

# Insulated Screwdriver Set



- Shank material - SNCM - V alloy steel
- Grip material - PP + TPR
- Finishing - chrome plated with black tip



0.86 kg 1 / 20

KT NO.	PC.	Contents
30606MR	6	1471 PH0 x 75, PH2 x 100, PH3 x 150
		1472 3 x 75, 4 x 100, 6,5 x 150
30607MR	7	1472 4 x 100, 5,5 x 125, 6,5 x 150, 8,0 x 175
		1478 PZ1 x 100, PZ2 x 100, PZ3 x 150
30607MR02	7	1471 PH1 x 100, PH2 x 100
		1472 4 x 100, 5,5 x 125, 6,5 x 150
		1474 1 x 125, 2 x 150
30617MR	7	1471 PH1 x 100, PH2 x 100, PH3 x 150
		1472 4 x 100, 5,5 x 125, 6,5 x 150, 8,0 x 175



0.50 kg 1 / 30

KT NO.	PC.	Contents
30605MR	5	1472 4 x 100, 5,5 x 125, 6,5 x 150
		1478 PZ1 x 100, PZ2 x 100
30615MR	5	1471 PH1 x 100, PH2 x 100
		1472 4 x 100, 5,5 x 125, 6,5 x 150



# Tool Box Set

37  
PC.



9052-001MRV

Plastic case size (mm) :  
456 x 372 x 155 (0.93 cuft)



Pouch 1

6  
PC.



Pouch 2

21  
PC.



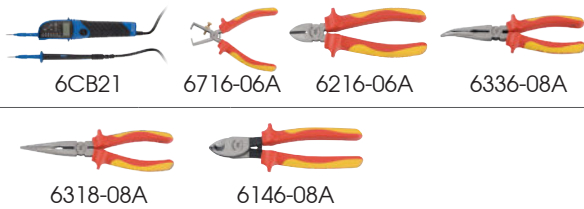
EVA foam(9-90110GPV)

10  
PC.



Pouch 1

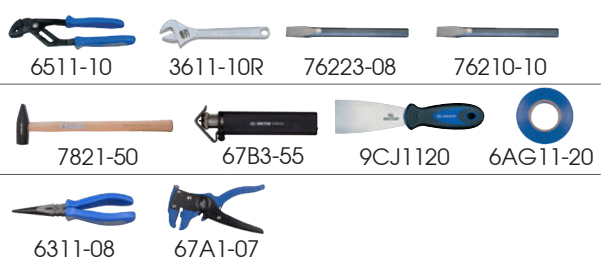
Contents



EVA foam(9-90110GPV)

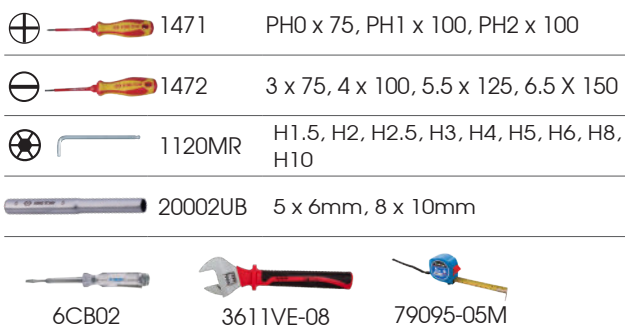
Contents

8.69 1.16



Pouch 2

Contents





# IC SPECIALIZED TOOLS & MEASURING TOOLS






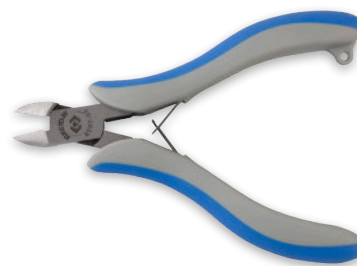
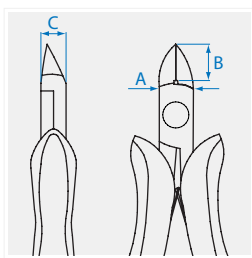
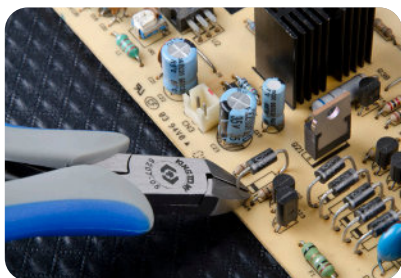








# Precision Pliers

6207-05

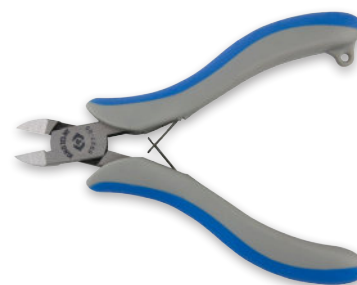
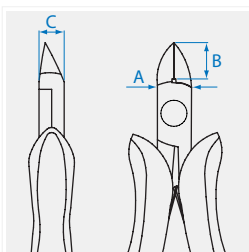
 Diagonal cutting nippers



KT NO.	Overall length		Cutting capacities		A mm	B mm	C mm		
	inch	mm	 $\varnothing$ mm	 $\varnothing$ mm					
6207-05	4-3/4	118	2.0	1.6	10.8	11.5	7.1	88	6 / 120

6927-05

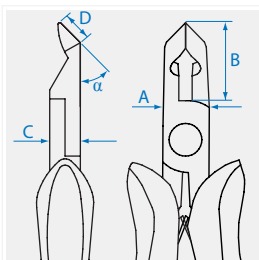
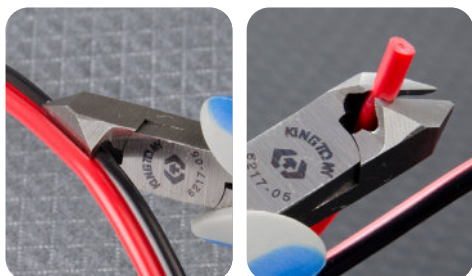
 For plastic







KT NO.	Overall length		A mm	B mm	C mm		
	inch	mm					
6927-05	4-3/4	118	10.3	11.5	7.1	71	6 / 120

6217-05

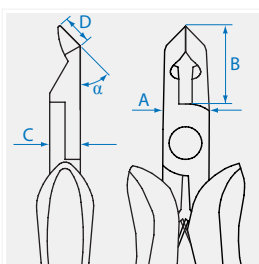
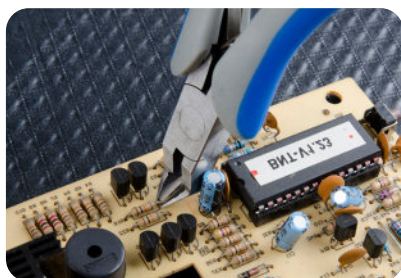
 Diagonal cutting nippers







KT NO.	Overall length		Cutting capacities		$\alpha$	A mm	B mm	C mm	D mm		
	inch	mm	 $\varnothing$ mm	 $\varnothing$ mm							
6217-05	4-3/4	118	2.0	1.0	35°	11.8	17	12.7	17.7	76	6 / 120

6247-05

 Diagonal cutting nippers




KT NO.	Overall length		Cutting capacities		$\alpha$	A mm	B mm	C mm	D mm		
	inch	mm	 $\varnothing$ mm	 $\varnothing$ mm							
6247-05	5	125	1.0	0.5	45°	11.4	19.4	7.5	55	73	6 / 120

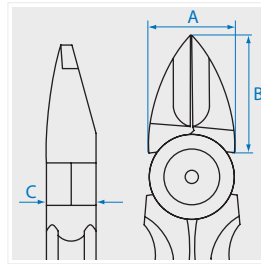
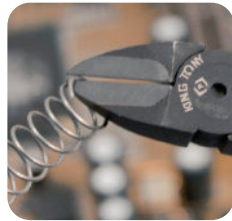


# Precision Pliers



## 6271C

 Diagonal cutting nippers


- The cutting edge hardness at least 73° HRC up

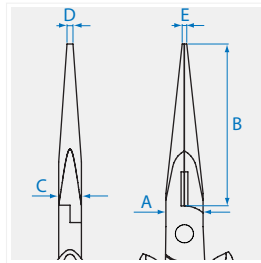
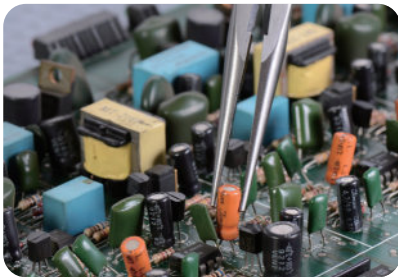




- The cutting edge is made from tungsten steel for an extremely long service life.

KT NO.	Overall length		●	A mm	B mm	C mm		
	inch	mm						
6271-05C	5	125	0.6	13.2	15	7.1	77	6 / 120
6271-65C	6-1/2	160	0.6	19.2	26	10.7	151	6 / 120

## 6317-06

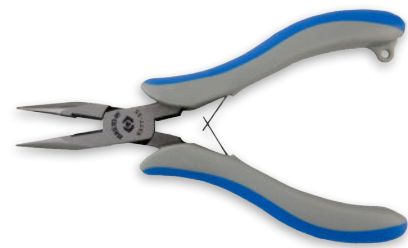
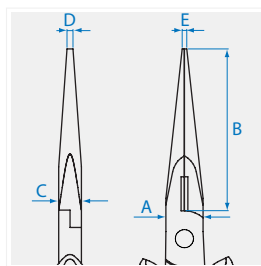
 Long nose pliers





KT NO.	Overall length		Cutting capacities		A mm	B mm	C mm	D mm	E mm		
	inch	mm	○ $\varnothing$ mm	● $\varnothing$ mm							
6317-06	6	157	2.0	1.6	11.6	50	7.5	2	2	84	6 / 120


## 6377-55

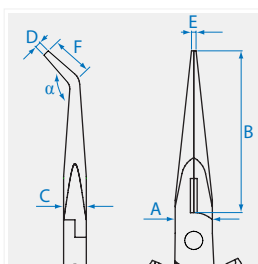
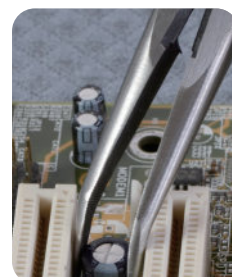
 Half-round nose pliers





KT NO.	Overall length		Cutting capacities		A mm	B mm	C mm	D mm	E mm		
	inch	mm	○ $\varnothing$ mm	● $\varnothing$ mm							
6377-55	5-1/2	138	2.0	1.6	11.3	30	7.5	1.5	1.5	97	6 / 120

## 6337-06

 Bent nose pliers



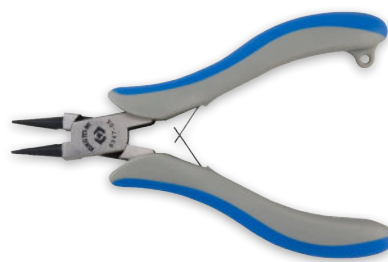
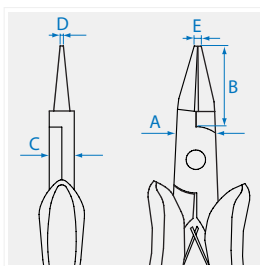
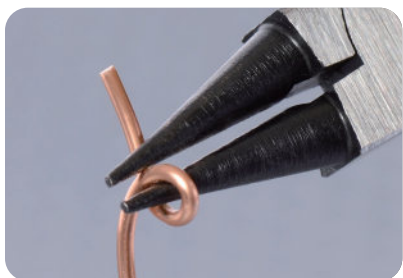
KT NO.	Overall length		Cutting capacities		$\alpha$	A mm	B mm	C mm	D mm	E mm	F mm		
	inch	mm	○ $\varnothing$ mm	● $\varnothing$ mm									
6337-06	6	154	2.0	1.6	40°	11.3	50	7.5	2	2.5	14	84	6 / 120



# Precision Pliers

6347-05

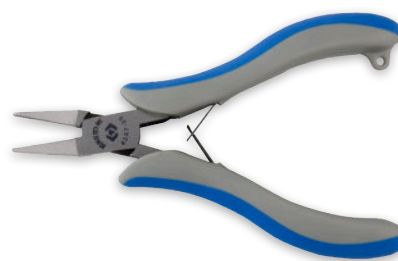
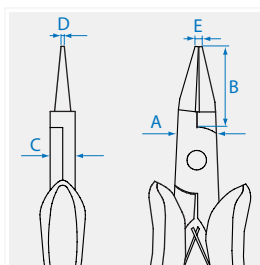
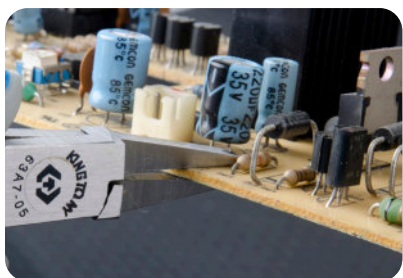
8 Round-nose pliers



KT NO.	Overall length		A mm	B mm	C mm	D mm	E mm		
	inch	mm							
6347-05	5	128	11.4	24.9	7.5	1	2.14	74	6 / 120

63A7-05

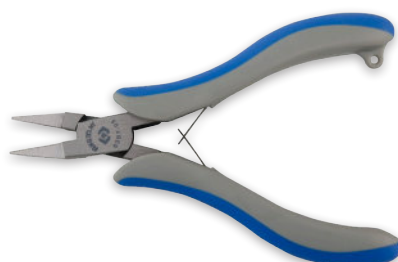
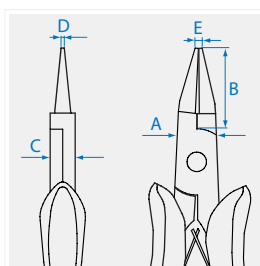
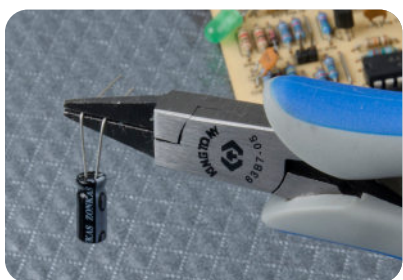
Round-nose pliers



KT NO.	Overall length		A mm	B mm	C mm	D mm	E mm		
	inch	mm							
63A7-05	5	128	11.5	24.7	7.5	3.3	1.8	75	6 / 120

63B7-05

Round-nose pliers



KT NO.	Overall length		A mm	B mm	C mm	D mm	E mm		
	inch	mm							
63B7-05	5	128	11.5	24.7	7.5	1.3	1.8	74	6 / 120



# Precision Screwdriver

- Shank material - SNCM - V alloy steel
- Grip material - PP
- Finishing - chrome plated with black tip

## 1431



- Phillips head, round shank
- DIN ISO 8764

KT NO.	⊕ No.	∅ mm	 mm		
14313015	PH000	1.5	40	7	10 / 320
14312015	PH00	2.0	40	7	10 / 320
14311015	PH0	3.0	40	13	10 / 100
14311115	PH1	4.0	40	16	10 / 100
14313003	PH000	1.5	75	8	10 / 320
14312003	PH00	2.0	75	8	10 / 320
14311003	PH0	3.0	75	14	10 / 100
14311103	PH1	4.0	75	18	10 / 100

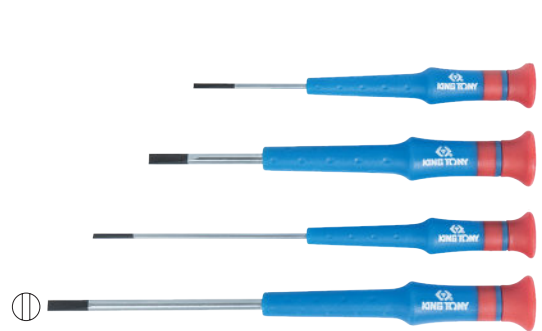


## 1432



- Slotted head, round shank
- Metric size
- DIN 5263

KT NO.	 mm	 mm	 mm	∅ mm		
14320615	0.6	0.15	40	3.0	9	10 / 320
14320815	0.8	0.19	40	3.0	9	10 / 320
14321015	1.0	0.20	40	3.0	9	10 / 320
14321515	1.5	0.23	40	3.0	10	10 / 320
14321815	1.8	0.30	40	3.0	10	10 / 320
14322015	2.0	0.40	40	2.0	11	10 / 100
14322515	2.5	0.40	40	2.5	12	10 / 100
14323015	3.0	0.50	40	3.0	13	10 / 100
14323515	3.5	0.60	40	3.5	14	10 / 100
14324015	4.0	0.80	40	4.0	16	10 / 100
14321003	1.0	0.20	75	3.0	11	10 / 320
14321503	1.5	0.23	75	3.0	11	10 / 320
14321803	1.8	0.30	75	3.0	11	10 / 320
14322003	2.0	0.40	75	2.0	11	10 / 100
14322503	2.5	0.40	75	2.5	13	10 / 100
14323003	3.0	0.50	75	3.0	15	10 / 100
14323503	3.5	0.60	75	3.5	16	10 / 100
14324003	4.0	0.80	75	4.0	18	10 / 100



## 1433



- For torx head, round shank

KT NO.	⊛ Size	∅ mm	 mm		
14330415	T4	3	40	10	10 / 320
14330515	T5	3	40	10	10 / 320
14330615	T6	3	40	10	10 / 100
14330715	T7	3	40	10	10 / 100
14330815	T8	3	40	10	10 / 320
14330902	T9	4	50	16	10 / 100
14331002	T10	4	50	16	10 / 100
14331502	T15	4	50	16	10 / 100
14332002	T20	4	50	16	10 / 100
14330403	T4	3	75	11	10 / 320
14330503	T5	3	75	11	10 / 320
14330603	T6	3	75	11	10 / 320
14330703	T7	3	75	11	10 / 320
14330803	T8	3	75	11	10 / 320
14330903	T9	4	75	18	10 / 100
14331003	T10	4	75	18	10 / 100
14331503	T15	4	75	18	10 / 100
14332003	T20	4	75	18	10 / 100





# Precision Screwdriver & Set

**91230**



- Screwdriver handle for interchangeable blades 2431, 2433
- Handle material - polypropylene (PP)



KT NO.	mm		
91230	100	12	10 / 100

**2433**



- Combination type
- Torx head, hexagonal shank
- Blade material - SNCM - V alloy steel
- Finishing - chrome plated with black tip



KT NO.	Size	mm	mm		
24330610	T6 x T10	4	120	11	20 / 200
24330715	T7 x T15	4	120	11	20 / 200
24330820	T8 x T20	4	120	11	20 / 200
24330915	T9 x T15	4	120	11	20 / 200

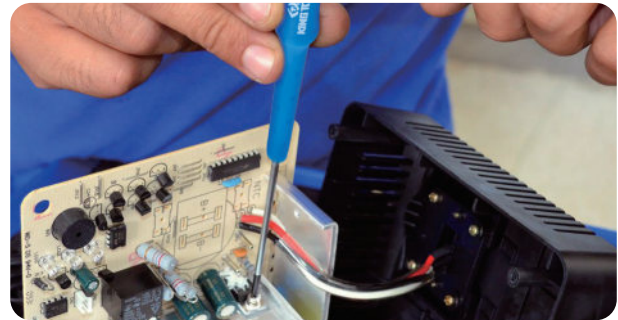
**2431**



- Combination type
- Phillips / Slotted head, hexagonal shank
- Blade material - SNCM - V alloy steel
- Finishing - chrome plated with black tip



KT NO.	No.	mm	mm	mm	mm		
24312020	PH00	2.0	0.30	4	120	11	20 / 200
24311030	PH0	3.0	0.50	4	120	11	20 / 200
24311140	PH1	4.0	0.60	4	120	11	20 / 200



KT NO.	PC.	Contents		
32218MR	8	1.0 x 75, 1.5 x 75, 1.8 x 75, 2.0 x 75, 2.5 x 75, 3.0 x 75, 3.5 x 75, 4.0 x 75 1432	0.32	1 / 30
32209MR	9	0.8 x 40, 1.0 x 40, 1.5 x 40, 1.8 x 40, 2.0 x 40, 2.5 x 40, 3.0 x 40, 3.5 x 40, 4.0 x 40 1432	0.26	1 / 30
32108MR	8	1431 PH000 x 40, PH00 x 40, PH0 x 40, PH1 x 40	0.29	1 / 30
		1432 1.5 x 40, 2.0 x 40, 2.5 x 40, 3.0 x 40		
32118MR	8	1431 PH000 x 75, PH.00 x 75, PH0 x 75, PH1 x 75	0.36	1 / 30
		1432 1.5 x 75, 2.0 x 75, 2.5 x 75, 3.0 x 75		
32309PR	9	1433 T4 x 40, T5 x 40, T6 x 40, T7 x 40, T8 x 40, T9 x 50, T10 x 50, T15 x 50, T20 x 50	0.26	1 / 30
32607MR	8	91230	0.22	1 / 30
		2431 PH00 x 2.0, PH0 x 3.0, PH1 x 4.0		
		2433 T6 x T10, T7 x T15, T8 x T20, T9 x T15		



# Precision Screwdriver Set

## 31419MR

- Precision screwdriver set

KT NO.	Contents	Each Q'ty
31419MR	⊕ 1431 PH000 x 40, PH00 x 40, PH0 x 40, PH1 x 40	6
	⊖ 1432 0.6 x 40, 0.8 x 40, 1.0 x 40, 1.5 x 40, 1.8 x 40, 2.0 x 40, 2.5 x 40, 3.0 x 40, 3.5 x 40, 4.0 x 40	
	⊙ 1433 T4 x 40, T5 x 40, T6 x 40, T7 x 40, T8 x 40	



114 PC.

Screwdriver shelf size (mm) : 383 x 136 x 130

Packing NO.	Spec.	KG	CUFT
31419MR-A	87107	0.86	0.47
31419MR-D	114 PC. content	1.17	0.14

# Soldering Iron

## 6BC141A

- 220V~240V, 20W / 40W
- For electrical and stained glass work
- Lightweight handle
- Replaceable tip

KT NO.	Voltage V	Rating W	⚖️	📦
6BC141A	220-240	20 / 40	204	25 / 50
6BC141-1	Soldering iron tip			

KT NO.	Rating W	∅ mm	Overall length	⚖️	📦
6BC141-1	20/40	6	81	17	10 / 100



6BC141-1

## 6BC23

30W

## 6BC26

60W

- 110V~240V, 30W, 40W, 60W, 100W
- For electrical and stained glass work

KT NO.	Voltage V	Rating W	⚖️	📦
6BC23A	220-240	30	160	54
6BC23B	220-240	30	125	54
6BC23F	110-120	30	125	54
6BC24A	220-240	40	125	54
6BC24B	220-240	40	125	54
6BC24C	220-240	40	196	32
6BC24F	110-120	40	125	54
6BC26A	220-240	60	166	54
6BC26B	220-240	60	166	54
6BC26C	220-240	60	216	32
6BC26F	110-120	60	166	54
6BC210A	220-240	100	210	20
6BC210B	220-240	100	210	20
6BC210C	220-240	100	330	20
6BC210D	220-240	100	288	20
6BC210F	110-120	100	210	20

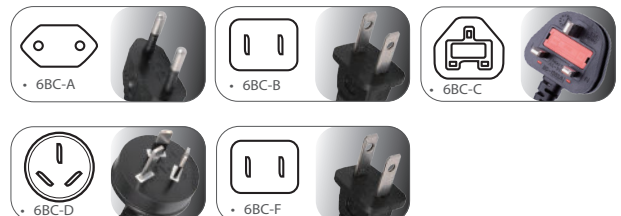
## 6BC24

40W

## 6BC210

100W


- Lightweight handle
- Replaceable tip
- No CE certification



# Soldering Iron Tip (Conical Type)

## 6BC23-1

- Copper-based iron tips are manufactured using patented process which produces a uniform iron and chrome plating thickness

KT NO.	Rating W	∅ mm		
6BC23-1	30 / 40	4	13	100 / 4200
6BC26-1	60	6	16	100 / 1600
6BC26-3	60	6	16	100 / 1600

## 6BC26-1

## 6BC26-3

- All tips are pre-tinned













# Gas Soldering Iron Set

## 6BC3007

- Gas soldering iron set with four tips, reflector and desolder wire
- Power range: 30W-150W
- Soldering temperature: 400°C~450°C (750°F~840°F)
- Torch temperature: 1300°C (2400°F)
- Fuel capacity: 20ml
- Tank fuel for 90 minutes operation
- Ready to use 45 seconds after ignition



8 PC.

KT NO.	Contents	 0.45	
6BC372		Gas soldering iron 257mm	20
6BC372-1		Conical	
6BC372-2		2.5mm round	
6BC372-3		3.5mm chisel	
6BC372-4		4.5mm angle	
6BC372-5		Reflector	
6BF21-17		Desolder wire / Sn 99.3%, Cu 0.7%	
		Foam	



# Desolder Wire

## 6BF11-17

- 40% lead and 60% tin

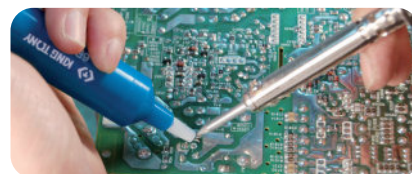



KT NO.	Size mm		
6BF11-17	1.0	17	20 / 480

# Desoldering Pump

## 6BD11

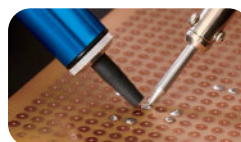
- One-hand operation
- ABS Body, teflon nozzle



KT NO.	Overall length mm		
6BD11	195	42	8 / 32

## 6BD22

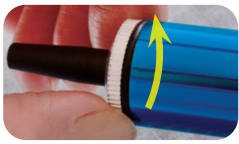
- Anti-static solder desoldering pump
- Teflon suction head
- Aluminum body




- Turn down the body



- Clean



- Turn up the body



KT NO.	Overall length mm		
6BD22	197	85	50 / 100

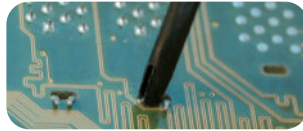
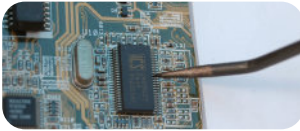


# Soldering Aid

## 6BE11-07

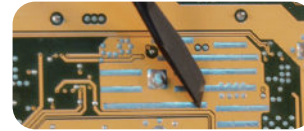
- Brush / Scraper :
- For removing flux residue and surplus solder

KT NO.	Overall length mm		
6BE11-07	175	15	1 / 200
6BE12-07	175	15	1 / 200
6BE16-07	180	15	1 / 200



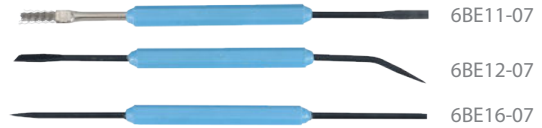
## 6BE12-07

- Scraper / Curved Probe :
- For component and lead extraction



## 6BE16-07

- Pointed / Slotted Probe :
- Fits wire up to 22AWG
- For wrapping and unwrapping etc



# Straight Fine Point Tweezers

## 6AF11-125

- Stainless steel with straight fine point
- Used for soldering integrated circuit chip, installing or replacing components
- It's suitable for doing precise repairing work



KT NO.	Overall length mm		
6AF11-125	124	16	50 / 800

# Reverse Action Tweezers

## 6AF21-165

- Stainless steel with tapered tips and flat points
- For holding small parts when soldering or spraying



KT NO.	Overall length mm		
6AF21-165	172	29	30 / 480

# Mini Soldering Iron Stand

## 6BC100

- Lightweight and high temperature bakelite resistance
- Mini size, easy to take
- Used for holding solder iron

 12  12 / 240



# Soldering Iron Stand with Sponge

## 6BC200

- Suitable for most pencil type soldering irons
- Convenient for easy storage
- Sponge for tip cleaning
- Double spiral spring construction prevents the hot soldering iron from accidentally burning the surface of other objects when it is inserted into the stand

 187  4 / 24



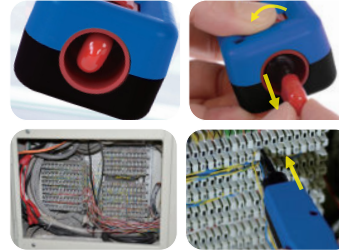
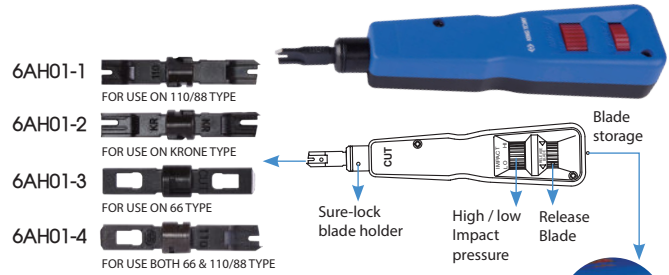


# Punch Down Tool

## 6AH

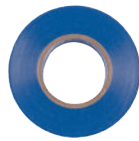
- For setting wire into terminal blocks or cut off wire end after terminated
- Blade : 66 & 110/88 & Krone type

KT NO.	Type	Overall length				
		inch	mm			
6AH11	110/88	6-3/4	170	140	20	80
6AH12	KRONE	6-3/4	170	140	20	80
6AH13	66	6-3/4	170	140	20	80
6AH14	66 & 110/88	6-3/4	170	140	20	80



# PVC Electrical Insulation Tape

## 6AG11-20



KT NO.	Width mm			
6AG11-20	18	52	1 / 250	

# Electronic Tool Set

- To repair electronic equipment...etc.

## 90217PQ



## 90217PQ01



## 90217PQ03



17  
PC.

Contents				
	1412	1.26	1 / 8	
	1411			
	6207-05			
	6377-55			
	6741-06			
	3611-06R			
	6BC23			
	6BC100			
	6BF11-17			
	6BD11			
	6AF11-125			
	6CB02			
	7976-65			

# Electrician Tool Box Set

## 97121PQ

- For electrician equipment

21  
PC.
















87407  
Overall size :  
445 x 240 x 206 mm

Contents				
	1471	4.9	1	CUFT0.79
	1472			
	6116-07A			
	6146-08A			
	6216-06A			
	6318-08A			
	6516-10A			
	6716-06A			
	6214-45			
	6334-05			
	6721-10			
	6751-44			
	6AB12-55			
	7932-04			

# Electrician Tool Bag Set

## 91333MQ

- For electrician equipment

Contents		6.02	1
⊕	 1421	PH1 x 80, PH2 x 100	
⊖	 1422	5 x 75, 5 x 100, 6.5 x 100, 6.5 x 150	
⊕	 1471	VDE PH2 x 100	
⊖	 1472	VDE 6.5 x 150	
	 6116-07A	VDE 7-1/2"	
	 6216-06A	VDE 6-1/2"	
	 6318-08A	VDE 8-1/4"	
	 6716-06A	VDE 6-1/4"	
	 20109MR	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10	
	 20129SR	1/16, 3/32, 1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 5/64	
	 3611-08R	200mm	
	 79093-05C	5M/16FT 19mm	
	 7971-07	165mm	

























33 PC.

87711C  
Overall size :  
510 x 255 x 345 mm / 39 inner pockets

## 91038MY01

- For electronic & electrician equipment...etc

Contents		3.13	1
⊕	 1421	PH0 x 60, PH1 x 80, PH2 x 100	
⊖	 1422	3 x 75, 5 x 75, 6.5 x 100	
	 6207-05	 6377-55	 6AB12-55
	 6BF11-17	 6BD11	 6313-06
	 7976-65	 6AF11-125	 6732-09
	 6BC24A	 87137	 6BC200
	220V / 40W	 6AG11-20	
	 6BE11-07	 6BE12-07	 6BE16-07
	 9DM1361	 1036ZQ	 ST20219MY1
	 87721B		



38 PC.

87721B  
Overall size : 360 x 200 x 260 mm







Lit when in DC mode measurement



Lit when in diode check



Unit for voltage measurement



Lit when in AC mode measurement



Data hold indication



Numeral date display



Negative polarity indicator-lit when the polarity is negative



Lit when the battery is low



Lit when in transistor hFE check



Auto range indicator



Unit for resistance measurement



Unit for current measurement



Lit when in continuity check

### LCD DISPLAY



SELECT KEY

DATA HOLD KEY

### INPUT TERMINAL 10A USAGE ONLY

- The Max. protective fuse for  $\mu\text{A}$ ,  $\mu\text{A}$ ,  $\text{mA}$ ,  $\text{mA}$  is 0.5A/250V
- The Max. protective fuse for  $10\text{A}$ ,  $10\text{A}$  is 15A/250V

### POWER & FUNCTION SWITCH



AC voltage measurement



AC/DC current measurement in 10 amperes



Turn off the power



DC voltage measurement



Transistor in NPN hFE measurement



Transistor in PNP hFE measurement



AC/DC current measurement in micro-amperes



LED test



Resistance measurement / Diode test / Continuity check



AC/DC current measurement in milli-amperes



AC or DC measurement

# Digital Multimeter

## 9DM1361

- Date hold, auto range, auto power off selection, auto power off cancellation
- Unit & function indication, Maximum reading value 1999 digits. Negative polarity indicator (no indication is given for positive polarity)
- Low power consumption
- Fuse with : 500mA / 600V & 10A / 600V
- AAA battery x 2 PC. included
- CE approval IEC61010-1 (2010), CAT.II 600V, CAT.III 300V



Specification	
DC Voltages (0.1mV ~ 1V)	200mV / 2V / 20V / 200V / 600V
AC Voltages (0.001V ~ 1V)	2V / 20V / 200V / 600V
DC Ampere (0.1uA ~ 0.01A)	200uA / 2000uA / 20mA / 2A / 10A
AC Ampere (0.1uA ~ 0.01A)	200uA / 2000uA / 20mA / 2A / 10A
Resistance (0.1Ω ~ 0.01MΩ)	200Ω / 2kΩ / 20kΩ / 200kΩ / 2MΩ / 20MΩ
Continuity check	Yes
Diode test	Yes
hFE(NPN, PNP)	Yes
LED check	Yes
Low battery indicator	Yes
LCD Display	3 1/2 digits 2000 counts
Sampling rate	3 times / sec

KT NO.	Size (mm)	⚖️	📦
	L x W x H		
9DM1361	138 x 70 x 32	85	10 / 60



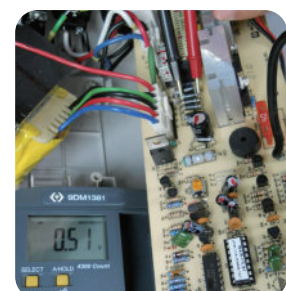
# Digital Multimeter

## 9DM1381

- Pocket size with flip cover design
- Approx. 4300 counts LCD display
- Auto range, auto power off selection
- Low power consumption
- LR44 battery x 2 PC. included
- CE approval EN61010-1, CAT.II 600V, CAT.III 300V
- Attachable test leads, easy operation

Specification	
DC Voltages (0.1mV ~ 1V)	400mV / 4V / 40V / 400V / 600V
AC Voltages (0.001V ~ 1V)	4V / 40V / 400V / 600V
Resistance (0.1Ω ~ 0.01MΩ)	400Ω / 4kΩ / 40kΩ / 400kΩ / 4MΩ / 40MΩ
Continuity check	Yes
Diode test	Yes
Overload indicator	OL
Low battery indicator	Yes
Sampling rate	Approx. 2 times / sec

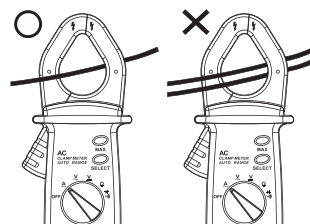
KT NO.	Size (mm)	⚖️	📦
	L x W x H		
9DM1381	117 x 76 x 18	121	20 / 80



# Digital Clamp Meter

## 9DM2351

- Max clamp size : Ø 30mm
- Unit & function indication, maximum reading value 1999 digits
- Negative polarity indicator (no indication is given for positive polarity)
- Auto power off selection approx. 15 minutes
- Low power consumption
- AAA battery x 2 PC. included
- CE approval IEC 61010-1, IEC 61010-2-032  
CAT.III 600V Pollution Degree 2
- Attachable test leads, easy operation



Specification	
AC Ampere (0.1A - 1A)	200A / 600A
AC Voltages (0.001V - 1V)	2V / 20V / 200V / 600V
DC Voltages (0.1mV - 1V)	200mV / 2V / 20V / 200V / 600V
Resistance (0.1Ω - 0.01MΩ)	200Ω / 2kΩ / 20kΩ / 200kΩ / 2MΩ / 20MΩ
Continuity check	Yes
Diode test	Yes
Low battery indicator	Yes
LCD Display	3 1/2 digits 1999 counts
Sampling rate	3 times / Sec.
Overload indicator	OL

KT NO.	Size (mm) L x W x H		
9DM2351	189 x 71 x 37	354	5 / 40

# AC Non-contact Voltage Tester

## 6CB31

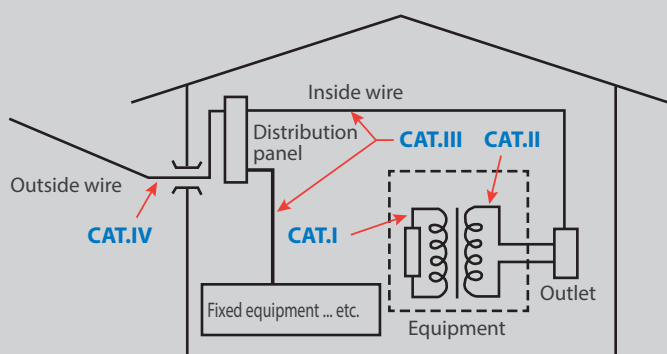
- Voltage ranges : 80 to 1000V AC.(50~60Hz)
- Application :  
AC voltage in outlets, lighting, circuit breakers, wires and cables etc..
- Adjustable sensitivity voltage detection
- Visible LED light voltage indicator in tip  
(Green light is high gear, red light is low gear)
- AAA battery x 2 PC. included
- Standard category :  
EN 61000-6-3 / EN 61000-6-1 CAT III



KT NO.	Overall size (mm) L x W x H		
6CB31	160 x 20 x 24	72	10 / 100

## Measurement level

The input voltage should not exceed the maximum value.



Measurement level	Description	Example
CAT.I	Measurement directly connected to the power supply circuit board	The secondary of the transformer measured
CAT.II	Measurement board directly connected to the low voltage devices	Equipment, portable devices
CAT.III	Equipment within the building	Distribution panels, circuit breakers
CAT.IV	Sources of all low voltage installations	Overhead lines, cable facilities





# 9 in 1 Multifunctional Wire Stripper

## 6CB41

- Non-contact voltage detection 80 - 1000V, 3 minutes auto power off
- Application: AC voltage in outlets, lighting, circuit breakers, wires and cables etc
- Illumination: COB LED
- Magnetic pads which can be useful for holding small components like nuts and bolts
- Screwdriver No. PH2 x1
- Battery: 3V (AAA 1.5V x2) Included
- Standard category: CAT IV 1000,  
EN 61010-1 : 2010/A1 : 2019, EN 62471 : 2008,  
EN 61326-1 : 2013, EN 61326-2-2 : 2013



- Magnetic
- Lock
- Cut



- Stripper(romex cable type NM-B)
- Stripper
- Stripper



- Volt tester
- Measurement
- Screwdriver (Use 65mm-70mm)



- Light switch
- Test switch

KT NO.	Wire stripper	Stripping romex cable	Stripping round cable Ø mm	Wire cutter Ø mm		
6CB41	mm <sup>2</sup> -0.5, 0.8, 1.3, 2.0, 3.3, 5.0, 8.0 AWG-20, 18, 16, 14, 12, 10, 8	12~2	8~10	7	220	1 / 50



# Infrared Thermometer

## 9DN12

- Not necessary to contact with the object
- IR point can be displayed clearly
- °C and °F interchangeable functions
- Selection of different materials
- Dark screen backlight test board functions
- 15 seconds automatically turn off the screen
- 9V battery x 1 PC. (included)

### Technical data

Temperature range	-30~550°C (-22~1022°F)
Operating temperature	0~50°C
Resolution	0.1°C / 0.1°F
Accuracy	±2.5% OR 3°C
Emissivity	Selectable (0.85 / 0.90 / 0.95)
Distance to spot ratio	12 : 1
Auto power off	15 seconds
Laser pointer	Class 2 Laser < 1 mW

KT NO.	Overall Size (mm) L x W x H		
9DN12	193 x 47 x 126	313	5 / 20



# Testing Screwdriver

## 6CB02

- Testing range : 100~250V
- CE approval
- Don't use the testing screwdriver as screwdriver
- Neon indicator



KT NO.					Testing range		
6CB02	3 mm	0.6 mm	65.5 mm	140 mm	100~250V	15	12 / 288

# Digital Voltage Tester

## 6CB21

- Self-Diagnostic test
- Built-in LED flashlight
- LCD Display
- Protection IP64
- AAA 1.5V x 2 PC.
- Standard category :  
EN 61243-3 / IEC 61243-3  
EN 61010-1 / IEC 61010-1  
CAT.III 690V / CAT.IV 600V

KT NO.	Overall Size (mm) L x W x H		
6CB21	255 x 66 x 30	250	5 / 20

### Specification

DC Voltage Test	12, 24, 50, 120, 230, 400, 690V
Polarity indication	Yes
AC Voltage Test	12, 24, 50, 120, 230, 400, 690V
Phase rotation test	Yes
High voltage indication	≥ 50V
Frequency range	0-70Hz
Continuity test	0~550KΩ
Operation condition	-10~55°C









# WIRE & CABLE TOOLS

ELECTRONIC & ELECTRICAL



# Electrician Scissors

## 6AB13-06

- High cutting performance by low cutting force



• 38mm<sup>2</sup> wire



Ergonomic design, handles made of high compressive strength and non-slip nylon fiber + TPV  
Special handle design, also suitable for the left-hander

Blades made of AUS-8, serrated on the edge can prevent objects from slip away, soft cable, up to dia 38mm<sup>2</sup>, insulation materials, electrical tape cable tie

KT NO.	Overall length		Cutting length mm	Cutting capacity AWG	Cutting capacity mm <sup>2</sup>	Scales	Boxes
	inch	mm					
6AB13-06	6	150	26	2	38	114	12 / 72

## 6AB21-65

- Curved mouth cable cutter
- Safety blade locking system



KT NO.	Overall length		Cutting length mm	Cutting capacity mm <sup>2</sup>	Scales	Boxes
	inch	mm				
6AB21-65	6-1/2	158	22	10	156	12 / 72

# Multi-purpose Scissors

## 6AB12-55

- Stainless steel with serrated edges
- Grip material - PP + TPR



KT NO.	Overall length mm	Overall length (mm)	Cutting capacities (mm <sup>2</sup> )							Scales	Boxes
			Electric cable	Cardboard	Rubber	Leather	Rolled steel	Copper (soft)	Aluminum		
6AB12-55	145	55	10	10	10	10	0.5	0.5	0.5	94	12 / 72

## 6AB31-75

- Even mouth cable cutter
- Safety blade locking system



KT NO.	Overall length		Cutting capacity mm	AWG	mm <sup>2</sup>	Cutting capacity (mm <sup>2</sup> )			Scales	Boxes
	inch	mm				Leather	Copper(soft)	Aluminum		
6AB31-75	7-1/2	185	52	16-12	1.5-4.0	2.0	0.5	0.5	160	12 / 72

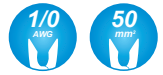
- Cut cable, cardboard, rubber, leather, rolled steel, copper (soft), aluminum, carpet, branch and so on.



# 5 in 1 Multi-functional Electrician Scissors

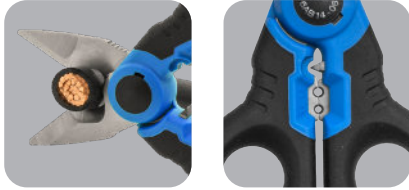
## 6AB14-06

- Professional scissors with special steel frame for high resistance and durability
- High hardness blades and anti-slip serrated edge for making precise cuts
- Light and strong handles are made from impact-resistant plastic material
- Ergonomically-designed handles are suitable for a comfortable grip
- PP+TPR handle material
- The blade is made of 4034 stainless steel



• Crimping terminal of cable

• Scraping



• Welding cable 100mm<sup>2</sup>

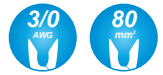
• Wire stripper 1.5-4mm<sup>2</sup>



KT NO.	Overall length		Cutting length mm	Cutting capacity AWG	Cutting capacity mm <sup>2</sup>	Wire stripper AWG	Wire stripper mm <sup>2</sup>	Pin terminal insulated/ Non-insulated terminal crimping		Scales	Boxes
	inch	mm						AWG	mm <sup>2</sup>		
6AB14-06	6-3/8	161	24	1/0	50	14, 12	1.5, 2.5	14	2.5	193	12 / 48

## 6AB14-65

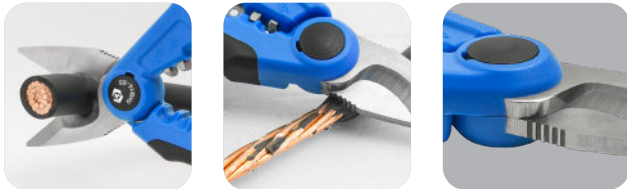
- Professional scissors with special steel frame for high resistance and durability
- High hardness blades and anti-slip serrated edge for making precise cuts
- Light and strong handles are made from impact-resistant plastic material
- Ergonomically-designed handles are suitable for a comfortable grip
- PP+TPR handle material
- The blade is made of 4034 stainless steel



• Wire stripper 1.5-4mm<sup>2</sup>

• Crimping terminal of cable

• Crimping terminal of cable



• Welding cable 80mm<sup>2</sup>

• Scraping



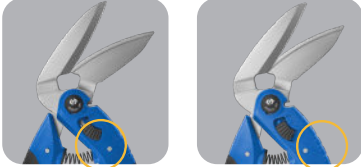
KT NO.	Overall length		Cutting length mm	Cutting capacity AWG	Cutting capacity mm <sup>2</sup>	Wire stripper AWG	Wire stripper mm <sup>2</sup>	Pin terminal insulated/ Non-insulated terminal crimping		Scales	Boxes
	inch	mm						AWG	mm <sup>2</sup>		
6AB14-65	6-3/4	170	21	3/0	80	16, 14, 12	1.5, 2.5, 4	14	2.5	228	12 / 48



# Multi-purpose Scissors

## 6AB33-95

- Ergonomically-designed handles are comfortable and durable during usage
- For cutting soft materials such as tin sheets, plastics, CD, cards and papers...etc
- The stainless steel blade and the curve-blade design makes it steady and saves strength while cutting
- The big angle design between blades and the handles of the scissors makes it so your hand never touches any object while operating
- Designed to conveniently adjust blades
- The blade is made of 420J2 stainless steel material
- PP+TPR handle material



• Large angle of blades • Small angle of blades



• Big angle design between blades and the handles of the scissors



• Iron wire cutter

KT NO.	Overall length		Cutting length mm	Wire cutting Aluminum / Copper mm	Cutting capacities (mm <sup>2</sup> )				Scales	Boxes
	inch	mm			Cardboard	Carpet	Copper	Aluminium (soft)		
6AB33-95	9-3/4	246	73	2.5	10	5	0.5	0.6	312	6 / 48

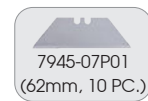
# Retractable Safety Cutter

## 7946-07

- Multifunctional safety cutters with trapezium blades 60x18 mm premium quality robust and resistant
- Upper slider for blade extraction with automatic retraction
- Container with 2 replacement blades integrated in the handle
- Integrated device for cutting nylon threads and films
- Structure in zinc alloy, anti-slip ergonomic grip handle in TPR Soft-Grip
- High quality blades in carbon steel SK5 extremely sharp and long duration



• Auto return butto • Auto lock button • 2 blades in storage • Blade replace button



KT NO.	L mm	Scales	Boxes
7946-07	180	200	12 / 72

## 7946-07-S

Paper display stand size(mm) :  
243 x 199 x 217 (0.37 CUFT)

KT NO.	Contents	Scales	Boxes
7946-07-S	7946-07 x 12 PC.	2.75	1 / 4



12 PC.

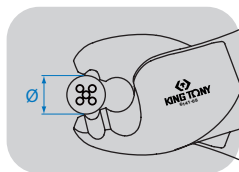




# Cable Cutting Pliers

## 6141C

- Polished head
- For cutting copper and aluminum cables, single and multiple wire



KT NO.	Overall length		Cutting capacity		Ø mm	Kg	Crate/Box
	Inch	mm	DIN(mm <sup>2</sup> )	AWG			
6141-06C	6	160	22	4	9.2	169	6 / 120
6141-08C	8-3/8	212	38	2	11.5	282	6 / 60

# Cable Cutter

## 6AD

- Cable cutter for cutting copper and aluminum cable



• Can be use with : 67B3-55 439 / 6AC51 444

KT NO.	Overall length mm	Cutting capacity		Kg	Crate/Box
		DIN(mm <sup>2</sup> )	AWG(MCM)		
6AD17-150	435	150	300	1.34	1 / 20
6AD23-400	595	400	800	1.84	1 / 10

# Ratcheting Cable Cutter

## 6AD10-325

- Cut soft copper, aluminum and multiple conductor cable to 325mm<sup>2</sup> (600MCM)
- Cuts hard drawn copper to 200mm<sup>2</sup> (400MCM)



KT NO.	Overall length mm	Cutting capacity		Kg	Crate/Box
		mm <sup>2</sup>	AWG(MCM)		
6AD10-325	255	325	600	613.2	10 / 30
6AD10-3P01		Spare cutting blade		58	1 / 100

## 6AD16-500

- Cut soft copper, aluminum and multiple conductor cable to 500mm<sup>2</sup> (1000MCM)



KT NO.	Overall length mm	Cutting capacity		Kg	Crate/Box
		mm <sup>2</sup>	AWG(MCM)		
6AD16-500	400	500	1000	1.60	1 / 10



# Electrician Knife

## 7932-04

- Electrician knife with wire stripper
- 1 blade with half-moon notch for stripping and vee for cutting



KT NO.	Blade length mm	Closed length mm	Overall length mm		
7932-04	85	110	196	75	10 / 180



## 7933-45

- Straight blade electrician knife



KT NO.	Blade length mm	Closed length mm	Overall length mm		
7933-45	85	120	205	111	10 / 180

# Cable Stripping Knife

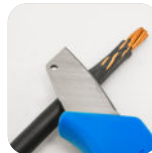
## 7935-08

- Blades are made from high tensile steel, allowing for excellent strength and performance
- Light and strong handles are made from impact-resistant plastic material
- Ergonomically-designed handles are suitable for comfortable and durable usage
- The Cable Stripping Knife has a protection sheath
- The protection sheath can also be used for assisting stripping wires
- The V-shaped groove can be used to position wires, and can prevent sliding while you peel wires
- Nylon handle
- The blade is made of 4034 stainless steel

KT NO.	L mm		
7935-08	204	109	12 / 72



• Cable stripping



• Scraping



• Protection set locked



• Protection set unlocked



# Folding Clasp Knife

## 7941-08

- Suitable for mechanics, outdoor and camping etc
- Blade fixator folded out
- Light and handy to use
- Stainless Blade with blacking coating
- With belt clip

KT NO.	L mm		
7941-08	210	166	8 / 48





# Utility Cutter

## 7971-07

- Automatically reloading snap-off blades
- Ergonomic soft ABS TPR handle
- Stainless steel blade guide
- Blade lock knob
- 4-blade cartridge(18mm)

KT NO.	L mm		
7971-07	165	180	6 / 72



• 3 blades in storage



7971-07P02  
(18mm, 10 PC.)

## 7978-07

- 3-blade cartridge with automatically reloading function
- Material : SK4 (HRC  $\geq$  62)
- 0.5mm thickness and 18mm width

KT NO.	L mm		
7978-07	175	131	12 / 144



• Quickly remove blade & automatically reload function





7978-07P02  
(18mm, 10 PC.)

• 3 blades in storage

## 7978-07-S

Paper display stand size(mm) :  
172 x 1360 x 222mm ( 2.75CUFT)



KT NO.	Contents		
7978-07-S	 x 12 PC.	1.58	1 / 12



12 PC.

## 7977-07

- Heavy duty 18mm wide cutting knife with snap off blades
- Exceptional cutting performance with SK4 blade (HRC  $\geq$  65)
- Provides sharper and more stable cutting with a high hardness cutting edge

KT NO.	L mm	N.W	G.W	CUFT		
7977-07	180	20	22	2.13	117	12 / 144
7977-07P02	-	10	12	1.06	9	200 / 2400






7977-07P02  
(18mm, 10 PC.)



## 7977-07-S

Paper display stand size(mm) :  
265 x 162 x 245 (0.37CUFT)

KT NO.	Contents		
7977-07-S	 x 12 PC.	2.23	4



12 PC.



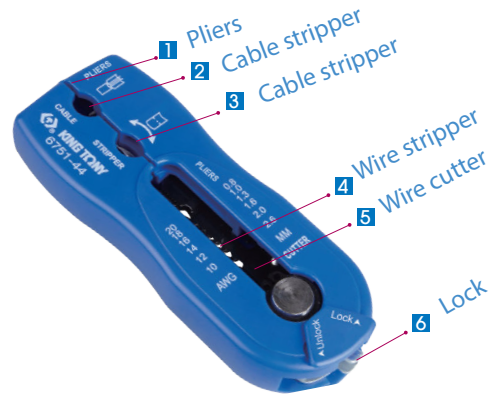
# Multi-purpose Wire Stripper

6751-44

- Wire stripper
- Wire cutter
- Cable stripper



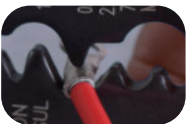
Preparation blade



KT NO.	Wire stripper Ø mm	AWG	Cable stripper Ø mm	Wire cutter Ø mm			
6751-44	0.8-2.6	20-10	6-10	6	116	10 / 120	

# Wire Stripper

6762-08



- Insulated terminal crimping



- Wire stripper



- Wire cutter



KT NO.	Wire stripper mm <sup>2</sup>	AWG	Wire cutter Ø mm	Insulated terminal crimping mm <sup>2</sup>	AWG			
6762-08	0.2-6	24-10	6	0.5-6	22-10	271	15 / 60	

67A1-07



KT NO.	Wire stripper mm <sup>2</sup>	AWG	Wire cutter Ø mm			
67A1-07	0.05-3.5	30-12	5	209	12 / 60	

# Wire Stripper Pliers

6761-07

- Aluminum body design for light weight
- Special design of strip length setting function for quickly operate
- SK5 knife



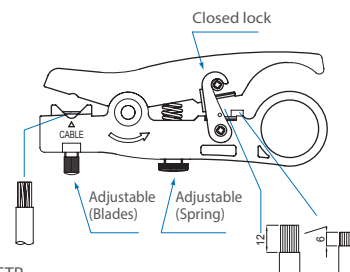
KT NO.	Wire stripper mm <sup>2</sup>	Overall length mm			
6761-07	0.9, 1.25, 2, 3.5, 5.5	178	271	10 / 60	



# Cable Stripper

6755-05

- UTP/STP, flat cable stripper & cutter
- Material : ABS



UTP/STP  
Cable stripper  
( $\varnothing$  2.6 ~  $\varnothing$  8.0)

Flat cable  
stripper / cutter  
RJ-45 (12 mm)  
RJ-11/12 (6 mm)

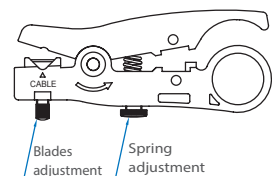
UTP/STP cable stripper	( $\varnothing$ 2.6 ~ $\varnothing$ 8.0)
Flat cable stripper / cutter	RJ-45 (12 mm), RJ-11/12 (6 mm)

KT NO.	Overall length		Scales	Cubes
	inch	mm		
6755-05	5	127	72	20 / 120

# Coax. Cable Stripper

6756-05

- 2-Blades model
- Material : ABS



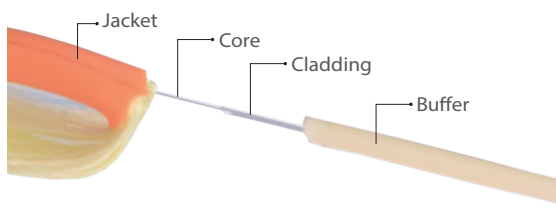
Stripper dimension "d"	6.4 mm	
Stripper distance 2-Blades model	RG-174/58/59/62/6 3C/4C/5C ( $\varnothing$ 2.6 ~ $\varnothing$ 8.0)	

KT NO.	Overall length		Scales	Cubes
	inch	mm		
6756-05	5	127	68	20 / 120

# Fiber Optic Stripper

67B1-06

- Three in one model performs all common fiber stripping functions
- Safety locking system for easy and steady stripping
- Ergonomic handle for comfort grip



Safety locking system



• To strip the 2.0-3.0 mm fiber jacketing



• 600-900 micron buffer layer stripping



• Strips the 250 micron cable down to the glass fiber without scratching or nicking glass fiber

KT NO.	Overall length		Stripping range			Scales	Cubes
	inch	mm	mm	$\mu$ m	$\mu$ m		
67B1-06	6	150	2.0-3.0	600-900	250	130	10 / 100



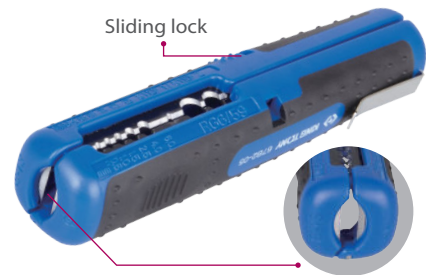
# Multi-stripper

## 67B2-05

KT NO.	Overall length			
	inch	mm		
67B2-05	4-3/4	120	69	15 / 90

### Stripping capacity

- Round cables between : 8-13mm
- Wire cable : 0.5 1.0 1.5 2.5 4.0 6.0mm<sup>2</sup>
- AWG : 20 18 16 14 12 10
- Coax.cable : RG-6 / RG-59



# Cable Stripper

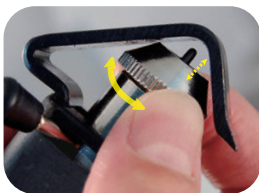
## 67B3-55

- Fast and safe stripping of round cable sheaths made of PVC or rubber from 6-45mm dia
- Adjustable knurled nut for max 6mm sheath

KT NO.	Cable stripper mm <sup>2</sup>	Overall length			
		inch	mm		
67B3-55	6-45	5-1/2	140	170	10 / 100



- Can be use with : 6AC51  444 / 6AD  434



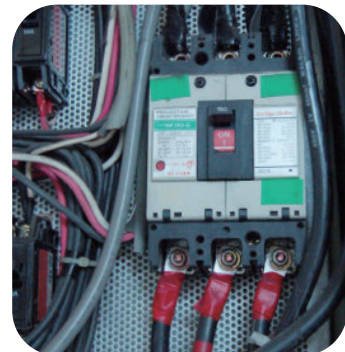
- Adjustable cutting depth



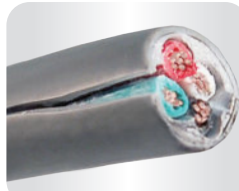
- Push cover



- Simple rotating the tool body



Stop



- Remove the cable sheaths without damage of the inner conductors





■ Crimp die profiles

Symbol		
		Phone plugs 6 pin
		Modular plugs 8 pin
		Insulated terminal connectors
		Non-Insulated terminal connectors
		Pin terminal, Insulated & Non-Insulated ferrules
		Non-Insulated terminal, Lug connectors

Symbol		
		CATV "F", BNC , COAX , and fiber optics connectors
		
		
		



# Modular Crimping Tool

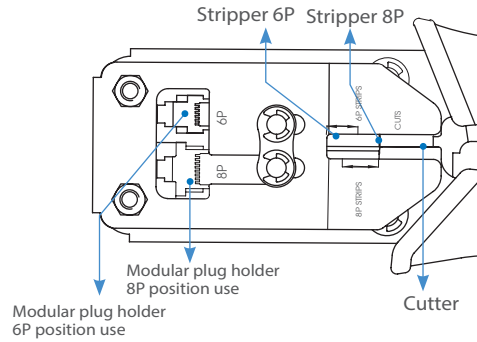
## 67F1-08

- For cutting / stripping / crimping
- 2 types of plugs in 1 tool
- Grip material - PP+TPR



• 6P                      • 8P

KT NO.	Overall length			
	inch	mm		
67F1-08	8	203	370	10 / 40



# Interchangeable Ratchet Crimping Tool Set

## 42107GX

- Quick interchangeable ratchet function & easy to use
- Crimping jaws with heat treatment
- Blow case size (mm) : 282 x 176 x 52 (0.09 cuft)

1.16    1 / 10



7 PC.

# Ratchet Crimping Tool Set

## 67G0005

- Blow case size (mm) : 240 x 70 x 50 (0.07 cuft)

1    1 / 16



5 PC.



Item No.	Replacement die set	Terminal size	Description	
6781POA		AWG 12-10 / 16-14 / 22-18 / 0.5-1.0 / 1.5-2.5 / 4-6 mm <sup>2</sup>	Insulated Terminal	
6781POB		AWG 1.5 / 2.5 / 8 / 10 mm <sup>2</sup>	Non-Insulated Terminal	
6781POC		AWG 0.5-1 / 1.5 / 2.5 / 4-6 mm <sup>2</sup>	Open Barrel Terminal	
6781POD		AWG 0.5 / 0.75 / 1 / 1.5 / 2.5 / 4 mm <sup>2</sup>	Insulated Core-end Terminal	
6781POF		AWG 6 / 8 / 10 / 16 mm <sup>2</sup>	Insulated Huge Core-end Terminal	
6781POH		AWG 0.5 / 2.5 / 8-6 / 8-10 / 14 / 22 mm <sup>2</sup>	Open Barrel & D-Sub, V.35 Connectors	
6781-85			Ratchet	

Item No.	Replacement die set	Terminal size	Description	
67GN-09		AWG 12 / 14 / 16 / 18 / 20 / 22 / 0.5 / 0.75 / 1.0 / 1.5 / 2.5 / 4.0 mm <sup>2</sup>	PIN TERMINAL INSULATED OR NON-INSULATED FERRULES	
67GJP01		AWG 6 / 8 / 10 / 6 / 10 / 16 mm <sup>2</sup>	PIN TERMINAL INSULATED OR NON-INSULATED FERRULES	
67GKP01		AWG 12-10 / 16-14 / 22-18 / 0.5-1.0 / 1.5-2.5 / 4-6 mm <sup>2</sup>	INTER-LOCKING & NON-INSULATED	
67GLP01		AWG 12-10 / 8 / 16-14 / 20-18 / 1.5 / 2.5 / 6 / 10 mm <sup>2</sup>	NON-INSULATED TERMINAL	
67GHP01		AWG 12-10 / 16-14 / 22-18 / 0.5-1.0 / 1.5-2.5 / 4-6 mm <sup>2</sup>	FOR INSULATED TERMINAL	





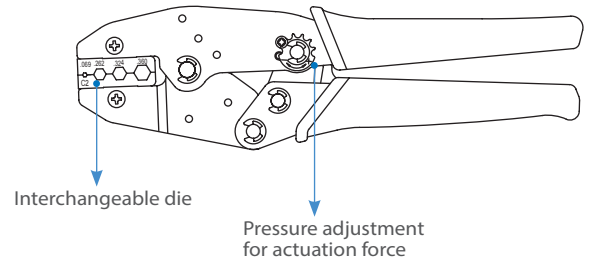
# Ratchet Crimping Tool

## 67G

- For crimping RG type cable
- CATV "F" connectors
- Interchangeable die



KT NO.	Overall length inch	mm		
67G	8.7	222	480	1 / 30



Item No.	Replacement die set	Terminal size	Description	
67G1-09	 67G1P01	.068" .262" .324" .360" (1.72 6.65 8.23 9.14 mm)	CATV "F" Connectors RG59, 6	
67GB-09	 67GBP01	.075" .100" .128" .429" (1.9 2.54 3.25 10.9 mm)	RG8, 9, 11, 174, 316 BELDEN 9913	
67GN-09	 67GNP01	AWG 12 / 14 / 16 / 18 / 20 / 22 0.5 / 0.75 / 1.0 / 1.5 / 2.5 / 4.0 mm <sup>2</sup>	PIN TERMINAL INSULATED OR NON-INSULATED FERRULES	
67GJ-09	 67GJP01	AWG 6 / 8 / 10, 6 / 10 / 16 mm <sup>2</sup>	PIN TERMINAL INSULATED OR NON-INSULATED FERRULES	
67GK-09	 67GKP01	AWG 12-10 / 16-14 / 22-18 0.5-1.0 / 1.5-2.5 / 4-6 mm <sup>2</sup>	INTER-LOCKING & NON-INSULATED	
67GL-09	 67GLP01	AWG 12-10 / 8 / 16-14 / 20-18 1.5 / 2.5 / 6 / 10 mm <sup>2</sup>	NON-INSULATED TERMINAL	
67GH-09	 67GHP01	AWG 12-10 / 16-14 / 22-18 0.5-1.0 / 1.5-2.5 / 4-6 mm <sup>2</sup>	FOR INSULATED TERMINAL	
67GG-09	Unchangeable AWG 12-10 / 16-14 / 22-18 0.5-1.0 / 1.5-2.5 / 4-6 mm <sup>2</sup>		FOR INSULATED TERMINAL	



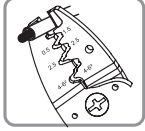
# Crimping Tools

## 6721-10

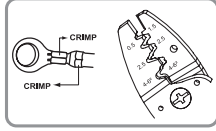
- Wire cutter
- Crimps insulated terminals
- Bolt cutter
- Crimps non-insulated terminals (Open barrel)
- Wire stripper



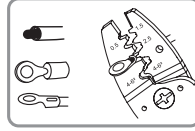
### FUNCTION:



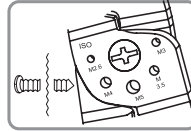
• Wire cutter



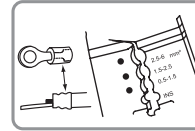
• Open barrel terminal crimping



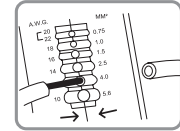
• Non-Insulated terminal Crimping



• Bolt-cutter



• Insulated terminal Crimping

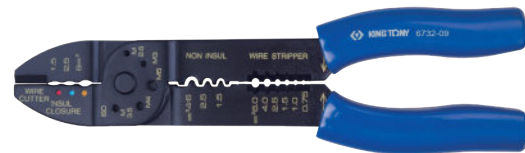


• Wire stripper

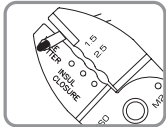
KT NO.	Wire cutter Ø mm <sup>2</sup>	Insulated terminal crimping	Bolt-cutter	Non insulated terminal crimp	Open barrel terminal crimping	Wire stripper mm <sup>2</sup>			
6721-10	6	0.5~6	M2.6~5	0.5~6	1.5~6	0.75~6.0	294	50	50

## 6732-09

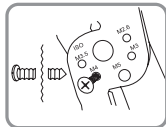
- Wire cutter
- Crimps insulated terminals
- Bolt cutter
- Crimps non-insulated terminals (Ring)
- Wire stripper



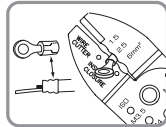
### FUNCTION:



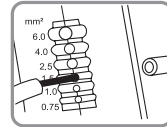
• Wire cutter



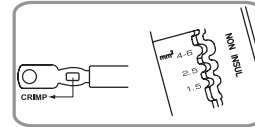
• Bolt-cutter



• Insulated terminal Crimping



• Wire stripper



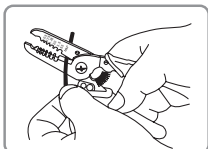
• Non-insulated ring terminal crimping

KT NO.	Wire cutter Ø mm <sup>2</sup>	Insulated terminal crimping	Bolt-cutter	Non-insulated ring terminal crimping	Wire stripper mm <sup>2</sup>			
6732-09	6	1.5~6	M2.6~5	1.5~6	0.75~6.0	261	24	72

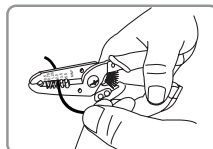
## 6741-06

- Wire cutter
- Wire stripper

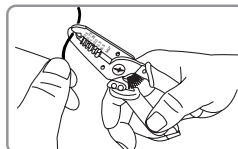
### FUNCTION:



• Wire cutter



• Wire stripper



• Peel the electric wire's shell



KT NO.	Wire cutter Ø mm <sup>2</sup>	Wire stripper mm <sup>2</sup>			
6741-06	6	0.5~5.5	103	10	100

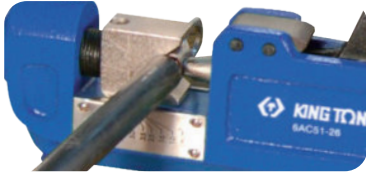







# Heavy Duty Crimping Tool

## 6AC51-26

- For cable lugs from 10mm<sup>2</sup>-150mm<sup>2</sup> with non-ratchet screw adjustment

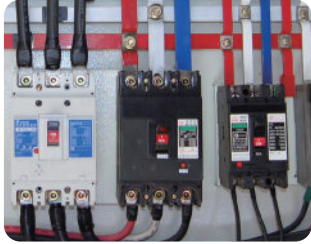


### Crimping capacity

KT NO.	Overall length mm	 kg	 / 	Crimping capacity										
				AWG	8	6	4	2	1/0	2/0	3/0	4/0	300MCM	
6AC51-26	665	3.9	1 / 5	JIS(mm <sup>2</sup> )	8	14	22	38	60	70	80	100	150	
				DIN(mm <sup>2</sup> )	10	16	25	35	50	70	95	120	150	

## 6AC52-12

- Ratchet designed. For non-insulated terminals



KT NO.	Overall length		 kg	 / 
	inch	mm		
6AC52-12	12	300	520	6 / 24

Item No.	AWG	16	14	10	8	6
	JIS mm <sup>2</sup>	1.25	2	5.5	8	14
	DIN mm <sup>2</sup>	1.5	2.5	6	10	16

6AC52-12	•	•	•	•	•
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# HAMMERS & STRIKING TOOLS







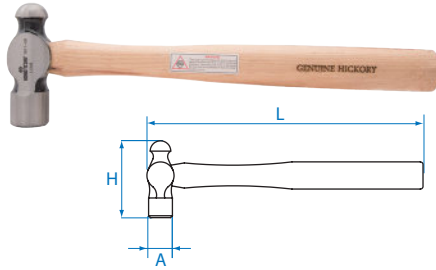


# Hammer

Convert:  
1g = 0.035 oz / 1g = 0.0022 lb

## 7811

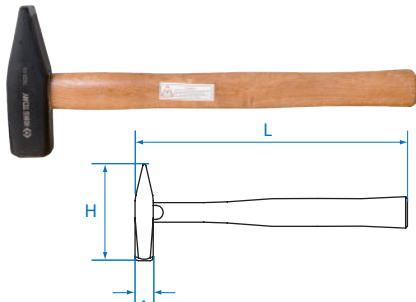
- American style
- Forged and hardened steel
- Wood and metal wedge
- GGG-H86C



KT NO.	H.W g	A mm	H mm	L mm		
7811-08	245	25	80	300	391	6 / 60
7811-12	370	29	93	300	480	6 / 48
7811-16	485	32.5	103	353	651	6 / 36
7811-24	765	35.5	122	405	983	6 / 24
7811-32	925	40.5	125	405	1170	6 / 24
7811-40	1125	42.2	133	405	1344	6 / 12

## 7821

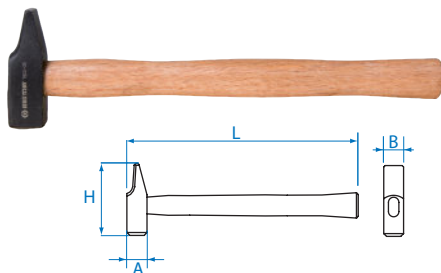
- 7821:
- German style
  - Forged and hardened steel
  - Wood and metal wedge
  - DIN 1041



KT NO.	H.W g	A mm	H mm	L mm		
7821-30	371	23	103	300	395	12 / 48
7821-50	500	27	120.5	320	615	6 / 36
7821-80	800	33	130	350	990	6 / 24

## 7822

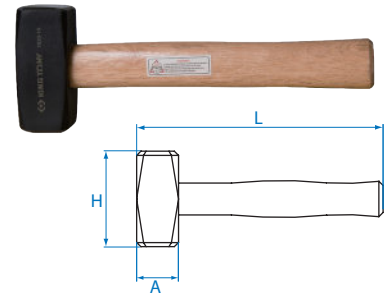
- Riveting hammer
- NF E71-016



KT NO.	H.W g	A mm	B mm	H mm	L mm		
7822-30	400	30	26	95	300	463	10 / 40
7822-40	800	40	35	115	320	977	8 / 16
7822-45	1250	45	40	124	355	1267	8 / 16
7822-50	1600	50	44	135	382	1856	6 / 12

## 7833

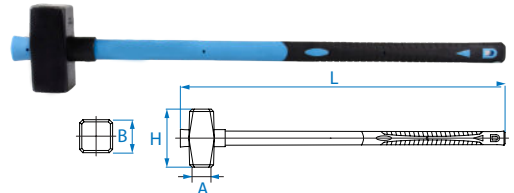
- Lump hammer
- DIN 6475



KT NO.	H.W g	A mm	H mm	L mm		
7833-10	1000	40	95	260	1066	7 / 14
7833-12	1250	43	100	260	1425	6 / 12
7833-15	1500	45	110	280	1642	6 / 12
7833-20	2000	50	120	300	2142	4 / 8

## 7834

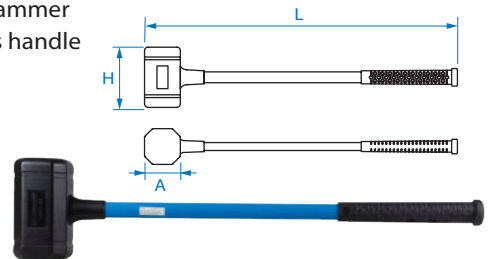
- Sledge hammer
- Fiberglass handle



KT NO.	H.W g	A mm	B mm	H mm	L mm		
7834-50	5000	68	70	158	908	5850	1 / 2

## 7852

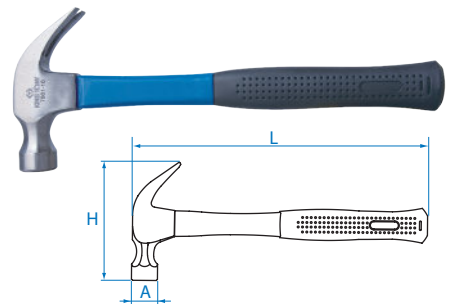
- Rubber hammer
- Fiberglass handle



KT NO.	H.W g	A mm	H mm	L mm		
7852-23	1650	69.5	142	500	2062	4 / 8
7852-55	4500	104	198	910	5500	2 / 4

## 7861

- Fiberglass claw hammer



KT NO.	H.W g	A mm	H mm	L mm		
7861-08	225	24.8	106	275	374	10 / 40
7861-16	450	30.0	133	335	740	4 / 24
7861-20	565	31.0	144	340	830	4 / 24
7861-24	680	32.0	147	380	920	10 / 20





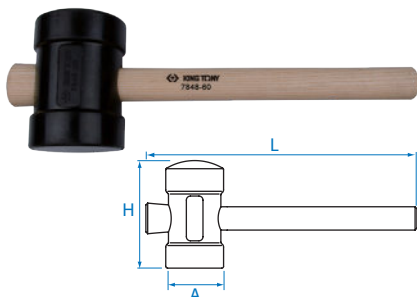
# Hammer



**CAUTION** Please wear proper safety gear while working.

## 7848

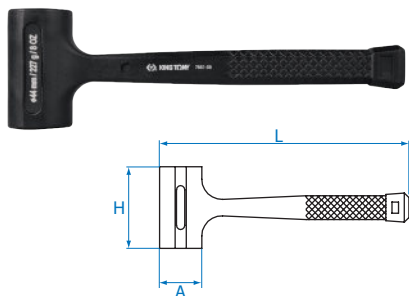
- Rubber hammer
- Feature : used to lay basalt floors, tires and other materials which are vulnerable



KT NO.	H.W g	A mm	H mm	L mm		
7848-60	523	64	119	330	628	6 / 12
7848-80	821	79	119	350	979	5 / 10

## 7851

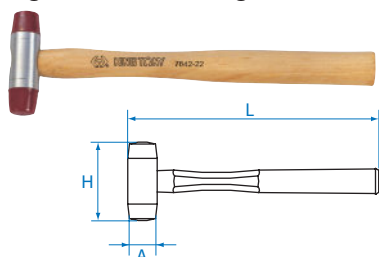
- Dead blow hammer



KT NO.	H.W g	A mm	H mm	L mm		
7851-08	227	44	81	272	572	6 / 24
7851-16	454	45	100	304	804	6 / 24
7851-24	680	49	100	322	942	6 / 24
7851-32	907	55	100	342	1059	6 / 24
7851-40	1134	58	110	342	1168	6 / 24
7851-48	1361	61	123	355	1321	6 / 12
7851-64	1814	68	136	368	1976	6 / 12

## 7842

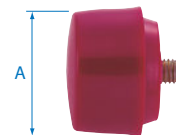
- Soft face hammer
- Replaceable polyurethane face
- Helps minimize marring and surface damage



KT NO.	A mm	H mm	L mm		
7842-22	22	75	255	110	10 / 40
7842-28	28	85	295	165	10 / 40
7842-35	38	100	325	305	8 / 32
7842-45	45	112	335	420	8 / 32
7842-60	60	135	380	895	6 / 12

## 915

- Spare faces for item 7842



KT NO.	A mm		
91522H/S	22	11	10 / 160
91528H/S	28	22	10 / 100
91535H/S	38	38	6 / 120
91545H/S	45	70	6 / 36
91560H/S	60	137	6 / 24

# Hammer Hook

## 91431

- Overall Size - W40 x D210 x H240 mm
- Weight - 411.6 g / Cuft - 0.072



# Chisel & Punch

- Material - chrome vanadium alloy steel
- Finishing - phosphate sunk

## 761

### Center punch



KT NO.	Ø mm	L mm		
76103-04	3	100	33	12 / 336
76104-05	4	120	58	12 / 336
76105-06	5	150	129	12 / 144

## 763

### Starter punch



KT NO.	Ø mm	L mm		
76301-05	1	120	57	12 / 336
76302-05	2	120	55	12 / 336
76303-05	3	120	57	12 / 336
76304-05	4	120	58	12 / 336
76305-05	5	120	59	12 / 336
76306-05	6	120	61	12 / 336
76307-05	7	120	101	12 / 240
76308-05	8	120	110	12 / 240
76309-06	9	150	141	12 / 144
76310-06	10	150	144	12 / 144



# Chisel & Punch Set



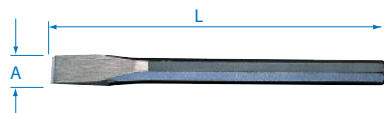
- Material - chrome vanadium alloy steel
- Finishing - phosphate sunk

## 765 Cape chisel



KT NO.	A mm	L mm	g	Box
76505-05	5	130	66	12 / 240

## 762 Flat chisel



KT NO.	A mm	L mm	g	Box
76210-10	10	250	135	12 / 144
76213-04	13	100	52	12 / 336
76213-06	13	150	82	12 / 144
76215-05	15	125	67	12 / 336
76217-06	17	150	140	12 / 144
76220-07	20	175	169	12 / 144
76223-08	23	200	295	12 / 72
76224-10	24	250	376	4 / 40
76226-12	26	300	649	4 / 32

## 764 Pin punch



KT NO.	Ø mm	L mm	g	Box
76402-45	2	115	31	10 / 640
76403-05	3	125	33	10 / 640
76403-06	3	150	39	10 / 250
76404-06	4	150	60	10 / 250
76405-65	5	165	68	10 / 280
76406-07	6	180	125	10 / 150
76408-08	8	200	162	10 / 120
76410-85	10	215	222	12 / 120
76412-09	12	230	349	10 / 80
76414-10	14	250	502	6 / 48

## 1005APR

5 PC.



Contents 0.32 8 / 48

	76104-05	Ø 4 x 120
	76215-05	15 x 125
	76303-05	Ø 3 x 120
	76404-06	Ø 4 x 150
	76505-05	5 x 130

## 1006APR

6 PC.



Contents 0.51 5 / 30

	764	Ø 2 x 115, Ø 3 x 125 Ø 4 x 150, Ø 5 x 165 Ø 6 x 180, Ø 8 x 200
--	-----	--

# Flat Chisel & Punch Set

## 1090PR1

- Flat chisel & punch set

KT NO.	Contents	Each Qty	Kg	Cuff	
1090PR1	761	6	13.50	0.34'	
					Ø 4 x 120, Ø 5 x 150
	762				17 x 150, 20 x 175, 23 x 200, 24 x 250 mm
	763				4 x 120, 8 x 120 mm
	764				Ø 3 x 40, Ø 4 x 50, Ø 5 x 50, Ø 6 x 50, Ø 10 x 65
	767				150, 200 mm
8711B	600 x 240 x 60 mm	1	6.20	0.9'	
8711B-1	600 x 232 x 230 mm	1	2.00	1.7'	

90 PC.



Shelf size (mm) : 600 x 240 x 290





# Punch Set

- Material - chrome vanadium alloy steel
- Finishing - phosphate sunk



► Pouch material : Teton



► Pouch material : Nylon



► Pouch material : Teton

KT NO.	PC.	Contents		Package		
1006PR	6		Ø 2 x 30, Ø 3 x 40, Ø 4 x 50, Ø 5 x 50, Ø 6 x 50, Ø 8 x 50	Nylon	0.57	1 / 20
1006PRN	6	764		Teton		
1016PR	6	761	Ø4 x 120, Ø5 x 150	Nylon	0.84	1 / 20
		762	20 x 175, 23 x 200			
		764	Ø3 x 125, Ø5 x 165			
1009PR	9		Ø 2 x 30, Ø 3 x 40, Ø 4 x 50, Ø 5 x 50, Ø 6 x 50, Ø 8 x 50,	Nylon	1.70	1 / 12
1009PRN	9	764	Ø10 x 65, Ø12 x 70, Ø14 x 75	Teton		
1010PR	10	761	Ø 3 x 100, Ø 4 x 120, Ø 5 x 150	Nylon	0.88	1 / 24
		763	Ø 3 x 120, Ø 6 x 120, Ø 8 x 120			
		764	Ø 3 x 40, Ø 4 x 50, Ø 5 x 50, Ø 6 x 50			
1025PRN	5	762	13 x 100, 15 x 125, 17 x 150, 20 x 175, 23 x 200	Teton	0.79	1 / 20

# Sheathed Chisel & Pin Punch

- Material - chrome molybdenum alloy steel
- Finishing - phosphate sunk
- Safe and comfortable grip

## 761-G Sheathed center punch



KT NO.	Ø mm	L mm		
76125-74G	2.5	185	111	12 / 144
76104-74G	4	185	113	12 / 144
76106-74G	6	185	175	12 / 144
76108-74G	8	185	168	12 / 120
76110-74G	10	185	117	12 / 120

## 762-G Sheathed flat chisel



KT NO.	A mm	L mm		
76218-75G	18	190	181	10 / 100
76219-75G	19	190	180	10 / 100
76220-84G	20	210	268	8 / 80
76222-84G	22	210	269	8 / 80

## 763-G Sheathed starter punch



KT NO.	Ø mm	L mm		
76302-74G	2	185	111	12 / 144
76303-74G	3	185	111	12 / 144
76304-74G	4	185	112	12 / 144
76305-74G	5	185	115	12 / 144
76306-74G	6	185	118	12 / 144
76308-74G	8	185	166	12 / 120

## 764-G Sheathed pin punch



KT NO.	Ø mm	L mm		
76402-55G	2	140	50	12 / 384
76403-06G	3	150	53	12 / 384
76404-07G	4	180	96	12 / 144
76405-08G	5	200	110	12 / 144
76406-84G	6	210	163	12 / 120
76407-84G	7	220	163	12 / 120
76408-88G	8	220	174	12 / 96
76409-88G	9	230	183	12 / 96
76410-09G	10	250	246	10 / 80
76412-10G	12	290	347	8 / 64
76414-11G	14	350	443	6 / 48
76416-12G	16	310	594	6 / 36
76410-14G	10	350	358	10 / 60
76412-14G	12	350	476	6 / 36
76414-14G	14	350	521	6 / 36
76416-14G	16	350	670	5 / 30



# Sheathed Pin Punch Set



► Pouch material : Tetoron

KT NO.	PC.	Contents		
1014GPN	4	∅ 10 x 350, ∅ 12 x 350, ∅ 14 x 350, ∅ 16 x 350	2.13	1 / 8
1006GPN	6	∅ 2 x 140, ∅ 3 x 150, ∅ 4 x 180, ∅ 5 x 200, ∅ 6 x 210, ∅ 8 x 220	0.80	1 / 8
1009GPN	9	∅ 2 x 140, ∅ 3 x 150, ∅ 4 x 180, ∅ 5 x 200, ∅ 6 x 210, ∅ 8 x 220, ∅ 10 x 230, ∅ 12 x 250, ∅ 14 x 290	1.82	1 / 12

# Automatic Center Punch

768

- Material : handle - brass, tip - S2
- Spring-loaded trigger design for using without a hammer

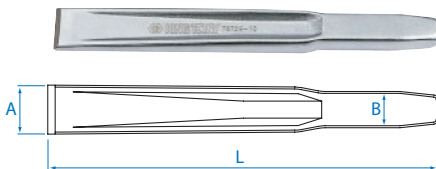
KT NO.	∅ mm	L mm		
76804-05	1.3	130	75.0	30 / 120
76807-06	1.7	155	142	30 / 120



# Flat Chisel & Set

767

- Ribbed type



KT NO.	A mm	B mm	L mm		
76717-05	17	12.6	125	88	12 / 240
76721-06	20	16.0	150	147	12 / 144
76724-08	25	19.0	200	264	12 / 72
76729-10	29	22.3	250	454	8 / 48

11104PR



4 PC.

Contents 1.37 1 / 10

	76717-05	17 x 125
	76721-06	20 x 150
	76724-08	25 x 200
	76729-10	29 x 250
	87108	

11104PR10



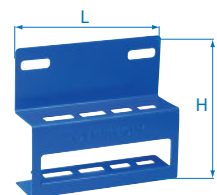
4 PC.

Contents 1.0 1 / 20

	76717-05	17 x 125
	76721-06	20 x 150
	76724-08	25 x 200
	76729-10	29 x 250

87108

- Acrylic display stand



KT NO.	H mm	L mm		
87108	140	160	410	12





# Marking Punch



## 11409SQ

- Chrome vanadium alloy steel
- Hardened and tempered control HRC60 for safe use
- Invert number 6 to be number 9 (For 11409SQ)
- The letter A~Z with extra "&" (ampersand) included (For 11427SQ)



• The position hole help to fix the marking punch



11409SQ

## 11427SQ



11427SQ

KT NO.	Font size		Contents	Shank mm <sup>2</sup>	L mm	Kg	Box / Carton
	mm	inch					
11409SQ02	2.0	5/64"	9 PCS 0~9	6.35	61	0.18	1 / 120
11409SQ03	3.0	1/8"		6.35	61	0.18	1 / 120
11409SQ04	4.0	5/32"		6.35	59	0.18	1 / 120
11409SQ05	5.0	3/16"		8	61	0.28	1 / 80
11409SQ06	6.0	1/4"		9.53	61	0.43	1 / 60
11409SQ08	8.0	5/16"		12.7	71	0.78	1 / 30
11427SQ02	2.0	5/64"	27 PCS A~Z, &	6.35	61	0.52	1 / 50
11427SQ03	3.0	1/8"		6.35	61	0.52	1 / 50
11427SQ04	4.0	5/32"		6.35	59	0.52	1 / 50
11427SQ05	5.0	3/16"		8	61	0.82	1 / 30
11427SQ06	6.0	1/4"		9.53	61	1.25	1 / 20
11427SQ08	8.0	5/16"		12.7	71	2.33	1 / 10

# Heavy Duty Marking Punch

## 11509SQ

- Chrome vanadium alloy steel
- Hardened and tempered control HRC60 for safe use
- Hardness reduced at striking end HRC40 to have longer life time
- Invert number 6 to be number 9 (For 11509SQ)
- The letter A~Z with extra "&" (ampersand) included (For 11527SQ)



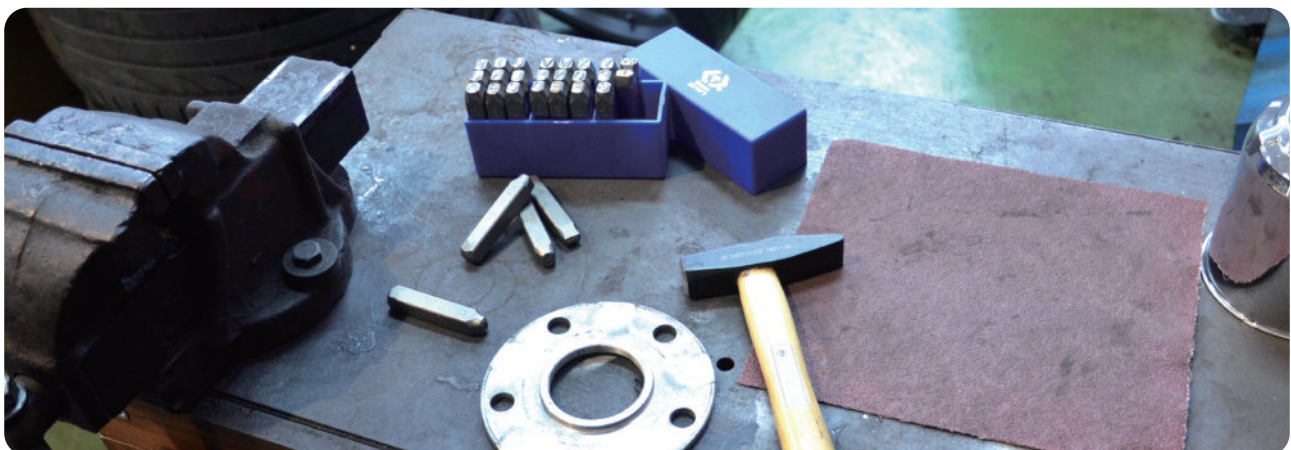
11509SQ05

## 11527SQ



11527SQ05

KT NO.	Font size		Contents	Shank mm <sup>2</sup>	L mm	Kg	Box / Carton
	mm	inch					
11509SQ05	5.0	3/16"	9 PCS 0~9	11	61	0.56	1 / 30
11527SQ05	5.0	3/16"	27 PCS A~Z, &	11	61	1.70	1 / 10





# WORKSHOP TOOLS







**KING TONY**  
9TBA600

**KING TONY**  
9TD406-19M  
9TD406-17M

8:1 HIGH THRUST  
**KING TONY** 7CA82-30

**KING TONY**  
7DM1100

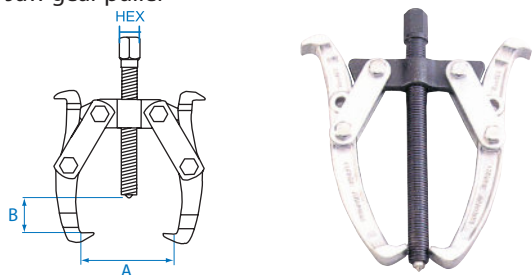


# Gear Puller & Set

- Material - chrome vanadium alloy steel
- Finishing - chrome plated & phosphate sunk

## 7962

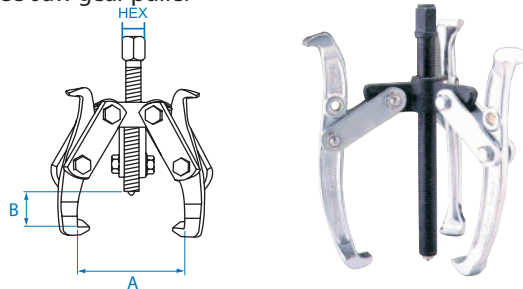
- Two-Jaw gear puller



KT NO.	Capacity (tons)	HEX (mm)	Jaw (leg)	Spread (A)mm	Reach (B)mm	Kg	Box
7962-03	2	14	2	40~75	60	0.44	1 / 40
7962-04	4	17	2	50~100	95	0.78	1 / 20
7962-06	6	19	2	70~150	150	1.65	1 / 10
7962-08	10	23	2	95~200	235	3.50	1 / 5
7962-12	15	32	2	140~300	280	7.00	1 / 2

## 7963

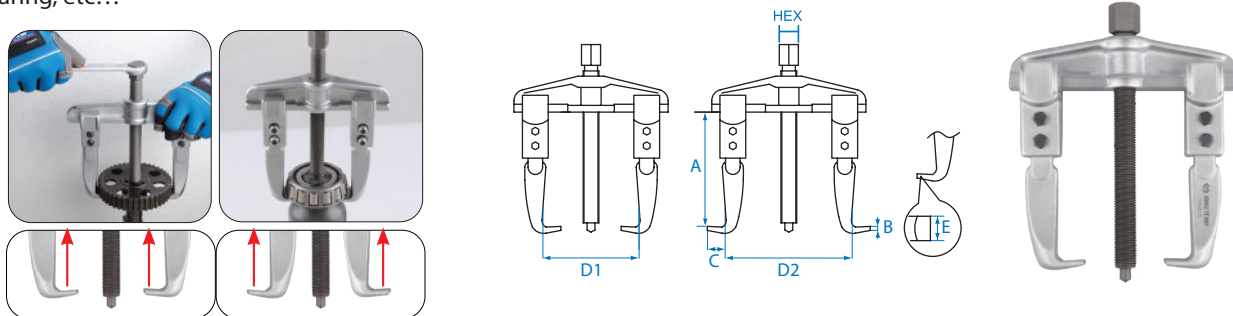
- Three-Jaw gear puller



KT NO.	Capacity (tons)	HEX (mm)	Jaw (leg)	Spread (A)mm	Reach (B)mm	Kg	Box
7963-03	3	14	3	40~75	60	0.55	1 / 40
7963-04	6	17	3	50~100	95	1.06	1 / 20
7963-06	9	19	3	70~150	150	2.25	1 / 10
7963-08	15	23	3	95~200	235	4.50	1 / 5
7963-12	22	32	3	140~300	280	11.00	1 / 2

## 7962B

- Two-Jaw gear puller
- Adjustable sliding arm for efficiency and safety
- Reversible jaws for internal & external options gear, axle, bearing, etc...



KT NO.	Capacity (tons)	Hex (mm)	Jaw (leg)	Reach A(mm)	B (mm)	C (mm)	Spread D1 (mm)	Spread D2(mm)	E (mm)	Kg	Box
7962B-35	3.0	17	2	100	3.8	14.5	90	60~125	21	1.05	1/12
7962B-05	5.0	17	2	100	3.8	14.5	130	60~160	21	1.15	1/12
7962B-06	5.0	22	2	150	4.6	23.0	150	85~200	30	2.98	1/6
7962B-08	7.5	22	2	150	4.6	23.0	190	105~230	30	3.41	1/6
7962B-10	7.5	27	2	210	7.0	30.0	240	130~300	35	7.11	1/3

## 7962B1PR

- Two-Jaw gear puller
- Adjustable sliding arm for efficiency and safety
- Reversible jaws for internal & external options gear, axle, bearing, etc...



Contents

18.20 Kg 1



7962B 3.5", 5", 6", 8", 10"

87155

## Micro Bearing Puller

### 7965-02

- Applications include: alternators, generators, domestic appliances, power tools and pumps



- Adjust the jaws by turning the screw

KT NO.	Capacity (Tons)	Spread A(mm)	Reach B(mm)	Kg	Box
7965-02	2T	19-45	73	905	1 / 12

# Two Sets Pressure Screw Bearing Separator Puller Set

## 9BA21

- 2 Sets bearing separator & bolts
- Contents:

**(1) Bearing Separator**

**9BA21P02**

Capacity 30mm ~ 50mm  
Bolt 3/8" x 24UNF x L125mm

**(2) Bearing Separator**

**9BA21P01**

Capacity 50mm ~ 75mm  
Bolt 1/2" x 20UNF x L 135mm

**(3) 4 PC. Main rod**

**9BA21P04**

Hex bar 14mm 3/8" x L 102mm x 2 pcs

**9BA21P06**

Hex bar 17mm 1/2" x L 127mm x 2 pcs

**(4) 4 PC. Extension rod**

**9BA21P05**

Hex bar 14mm 3/8" x L 102mm x 2 pcs

**9BA21P07**

Hex bar 17mm 1/2" x L 127mm x 2 pcs

**(5) 1 PC. Beam**

**9BA21P03**

**Central Bolt**

**9BA21P011**

**(6) 9BA21P011**

Hex 18mm x 9/16" x L175mm

⚖️ 5.25 📦 1 / 2



# Pressure Screw Bearing Separator Puller Set

## 9BA22

- Includes bearing separator & bolts
- Contents:

**(1) Bearing Separator**

**9BA22P01**

Capacity 75mm ~ 105mm  
Bolt 5/8" x 18UNF x L 165mm

**(2) 2 PC. Main rod**

**9BA22P02**

Hex bar 19mm x M12 & 1/2" x L 255mm

**(3) 2 PC. Extension rod**

**9BA22P04**

Hex bar 19mm x M12 x L 255mm

**(4) 1 PC. Beam**

**(5) 1 PC. Central bolt**

**9BA22P011**

Hex 21mm x M18 x L292 mm

**(6) 1 PC. Nut**

⚖️ 8.95 📦 1 / 2



# Hydraulic Puller Set

## 9BA01

- Includes forged steel bearing separator and gear puller
- Operate up to 10 tons hydraulic pulling power
- Special separator design of the strong back puller allows the puller to be used even in the tightest spaces
- Suitable for industry, automotive and a gricultural machine

9BA22P011- Set Separator Capacity 75mm ~ 105mm

9BA22P03- 1 PC. Beam

9BA01P01- 1 PC. 10T Hydraulic Ram

9BA01P032- 1 PC. Tripe Head

9BA01P031- 1 PC. Twin Head

9BA01P033- 1 PC. Ram Part

9BA01P012- 1 PC. Centre Adapter

9BA01P013- 1 PC. 1"x 2" Extension Rod

9BA01P014- 1 PC. 1"x 4" Extension Rod

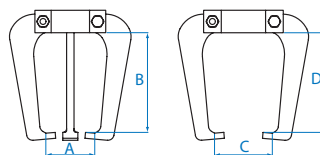
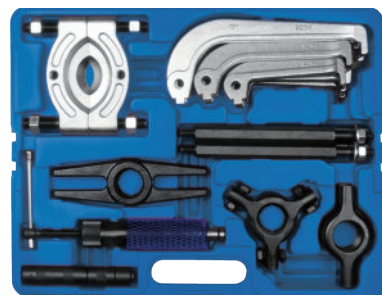
9BA22P02- 2 PC. Main Rod Hex bar 19mm x M12 & 1/2" x L255mm

9BA22P04- 2 PC. Extension Rod Hex bar 19mm x M12 x L255mm

9BA01P051- 3 PC. 4" Leg

9BA01P052- 3 PC. 6" Leg

9BA01P053- 3 PC. 8" Leg



Size	Spread A (mm)	Reach B (mm)	Spread C (mm)	Reach D (mm)
4"	240	120	250	120
6"	190	170	310	170
8"	180	220	200	220



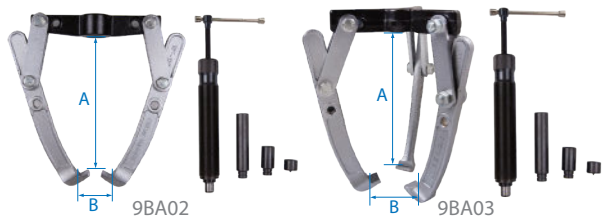
⚖️ 17.00 📦 1 / 1



# Hydraulic Mechanical Pullers

## 9BA

- Quick and safe removal particularly large and tight gears, bearings, etc...
- Two and three jaws type, use for different space



KT NO.	Capacity (Tons)	Jaws (leg)	Reach A(mm)	Spread B(mm)	kg	1/1
9BA02	15T	2	320	500	11.30	1 / 1
9BA03	15T	3	320	500	16.50	1 / 1

# Universal Bearing Puller Set



## 9BA31

- Easy and fast removing ball bearing by using the puller
- Select proper tips by ball diameter

CONTENTS :

- 1 PC. Puller yoke M6 x1.0 and center screw Hex 12mm x160mmL
- 1 PC. Top Nut
- 2 PC. Extension rod x L 105mm
- Ball ended threaded adapter
- 2 PC. 5.5mm / 2 PC. 6.0mm / 2 PC. 8.0mm

kg 1.33 1 / 12



10 PC.

## 9BA32

1/2"

- Easy and fast removing ball bearing by using the puller
- Select proper tips by ball diameter

CONTENTS :

- 1 PC. Puller yoke 3/8-16UNC and center screw Hex 14mm x175mmL
- 1 PC. Top Nut
- 2 PC. Extension rod x L 100mm
- Ball ended threaded adapter
- 2 PC. 11.0mm / 2 PC. 12.5mm / 2 PC. 15.0mm

kg 2.00 1 / 12



10 PC.

## 9BA33

- Easy and fast removing ball bearing by using the puller
- Select proper tips by ball diameter

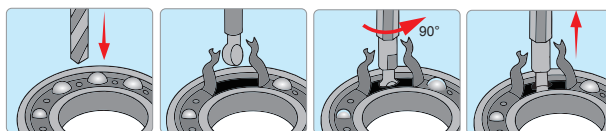
CONTENTS :

- 1 PC. Puller yoke M14 x2.0 and center screw Hex 21mm x280mmL
- 1 PC. Top Nut
- 2 PC. Extension rod x L 170mm
- Ball ended threaded adapter :
- 2 PC. 15.0mm / 2 PC. 17.4mm
- 2 PC. 20.0mm / 2 PC. 25.2mm
- 2 PC. 30.0mm / 2 PC. 36.4mm

kg 8.00 1 / 3



16 PC.



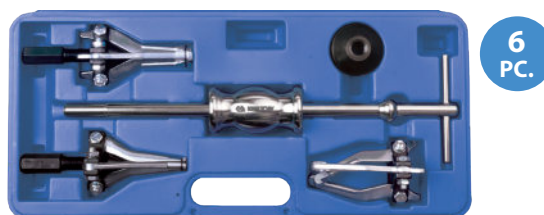
# Slide Hammer Gear Puller Set

## 796401MR

### Slide Hammer Puller Set

- For jobs involving pull and grip gears, bearings, outer races, grease retainers, oil seals, etc.
- 2.6 lbs(1.2 kgs) slide hammer
- 400 mm length T-handle puller
- 3-in-1 hammer puller, to handle inside pull such as bearing cups and outer races, as well as regular outside pull jobs

kg 4.50 1/4

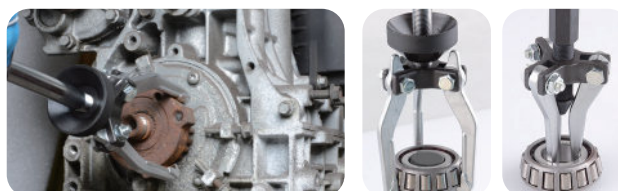


6 PC.

CONTENTS:

- 1 PC. 400 mm T handle shaft
- 1 PC. 2.6 lbs / 1.2 kgs hammer
- 1 PC. Adjustable nut
- 1SET Internal gear puller for Ø15-30mm(A)
- 1SET Internal gear puller for Ø30-80mm(B)
- 1SET External gear puller for Ø15-80mm(C)

Items	D (mm)	Capacity
Internal gear puller	6	Ø 15-30mm
Internal gear puller	10.5	Ø 30-80mm
External gear puller	10.5	Ø 15-80mm

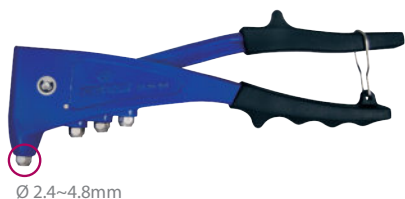




## Riveter & Set

21-20-101

- Stainless steel riveter nozzles
- Drop-forged aluminum body



Ø 2.4~4.8mm

KT NO.	L		Capacity		kg	Crate
	inch	mm	inch	mm		
21-20-101	10-1/4	260	3 / 32	Ø 2.4	588	12 / 24
			1 / 8	Ø 3.2		
			5 / 32	Ø 4.0		
			3 / 16	Ø 4.8		

21-20-07MR

Blow case size (mm) :  
276 x 160 x 46(0.122 cuft)



121 PC.

Contents	kg	Crate	Each Qty
4 x 8 mm	1.06	1 / 16	20
4 x 10 mm			
4 x 8 mm			
4 x 10 mm			
4.8 x 8 mm	1	1	1
4.8 x 10 mm			
21-20-101			

21-20-102

- 4 changeable sizes
- Stainless steel riveter
- The driver can be used in 90° and 180°

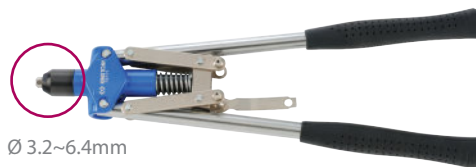


KT NO.	L		Capacity		kg	Crate
	inch	mm	inch	mm		
21-20-102	11	278	3 / 32	Ø 2.4	778	6 / 24
			1 / 8	Ø 3.2		
			5 / 32	Ø 4.0		
			3 / 16	Ø 4.8		

## Riveter

79711

- Stainless steel riveter nozzles
- Drop-forged aluminum body
- Heavy duty riveter for stainless or aluminum rivets



Ø 3.2~6.4mm

KT NO.	L		Capacity		kg	Crate
	inch	mm	inch	mm		
79711	18	460	1 / 8	Ø 3.2	1480	1 / 12
			5 / 32	Ø 4.0		
			3 / 16	Ø 4.8		
			1 / 4	Ø 6.4		

## Expander Riveter

79721

- Expander framework design to press riveter
- 4 PC. Interchangeable nozzles
- Heavy duty riveter for stainless or aluminum rivets



KT NO.	L		Capacity		kg	Crate
	mm(min)	mm(max)	inch	mm		
79721	315	870	1 / 8	Ø 3.2	2.00	1 / 10
			5 / 32	Ø 4.0		
			3 / 16	Ø 4.8		
			1 / 4	Ø 6.4		

## Blind Nut Riveter

21-30-09MR

- Designed for fastening object to thin metal
- 4 PC. interchangeable mandrels (M4, M5, M6, M8)
- 80 PC. iron nut rivet



85 PC.

KT NO.	L		Capacity	kg	Crate
	inch	mm			
21-30-09MR	10-1/2	265	M4 x 0.7	1.32	1 / 12
			M5 x 0.8		
			M6 x 1.0		
			M8 x 1.25		

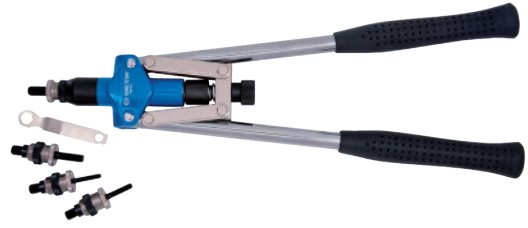


# Nut Riveter

79731

- Stainless steel nut riveter nozzles
- Drop-forged aluminum body
- Heavy duty riveter for stainless or aluminum rivet nuts

KT NO.	inch	L mm	Capacity	kg	Crate
79731	18	472	M5	1.86	1 / 12
			M6		
			M8		
			M10		



# Measuring Tape

- Auto-Lock measuring tape
- Two retrieval buttons
- Nylon coating 3-rivet blade
- Ergonomic & shockproof ABS+TPE case
- Specially red marked each 10cm scale
- EU Class II accuracy standard approval

79093



KT NO.	L M / FT	B mm	g	Crate
79093-02M	2M	16	110	16 / 64
79093-03M	3M	16	137	16 / 64
79093-05M	5M	19	210	14 / 56
79093-05M1	5M	25	260	12 / 48
79093-08M	8M	25	420	12 / 48
79093-03C	3M/10FT	16	137	16 / 64
79093-05C	5M/16FT	19	210	14 / 56
79093-08C	8M/26FT	25	420	12 / 48

79094

- Magnetic hook

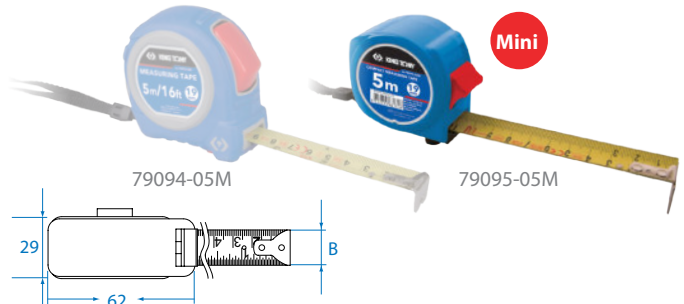


KT NO.	L M / FT	B mm	g	Crate
79094-02M	2M	16	110	16 / 64
79094-03M	3M	16	137	16 / 64
79094-05M	5M	19	210	14 / 56
79094-08M	8M	25	420	12 / 48
79094-03C	3M/10FT	16	137	16 / 64
79094-05C	5M/16FT	19	210	15 / 60
79094-05C1	5M/16FT	25	260	12 / 48
79094-08C	8M/26FT	25	420	12 / 48

79095-05M

- Magnetic hook

79094-05M  
16%



KT NO.	L M / FT	B mm	g	Crate
79095-05M	5M	19	158	12 / 144

79095-05M-S



Contents

	kg	Crate
79095-05M x 12 PC.	1.90	1 / 10

# Paper Display Stand

87118

- Capacity : 12 PC.
- For all measuring tape (79093 / 79094 <02M,03M,05M>series)
- Paper display stand size(mm) : 309 x 237 x 189 (0.489 CUFT)

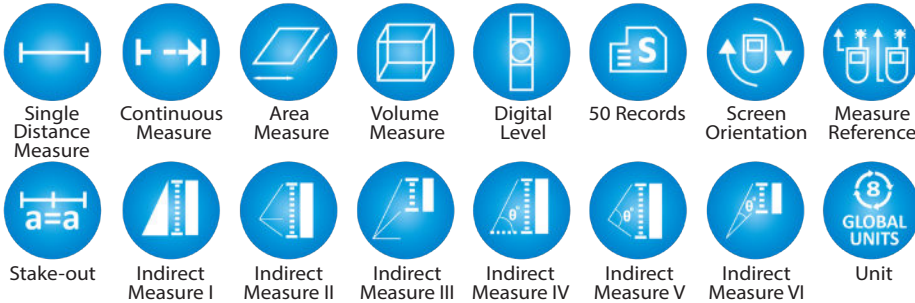




# Full Color Laser Distance 60M

## 7DM1160

- Colorful LCD display for easily reading
- Functions : Single measure, continuous measure, area, volume, height, stake-out
- Six flexible ways for height measurement
- Universal 8 length units with auto-converting
- 360° inclination sensor for determining the horizontal and vertical distance
- 2 selectable measurement reference points : Front and rear
- Automatic orientation display
- CE Approval IEC 60825-1: 2014, EN 61326-1: 2013



Technical data	
Display	Color LCD
Measuring Range	0.05 m ~ 60 m
Resolution	0.001 m
Accuracy	±1.5 mm
Laser Type	650 nm, Class II, < 1 mw
Unit(Selectable)	m, ft, in, 0'0" 1/32, 1/32in, 1/16in, 1/8in, 10/33
Battery Life	Up to 6,000 measures
Operation Temperature	-5° C ~ 40° C
Storage Temperature	-20° C ~ 60° C
Memory	50 set
IP code	54
Automatic Power-Off	Laser-120 seconds Device-180 seconds
Battery	AAA x 2 PC. Included



• Color LCD

Overview for device :

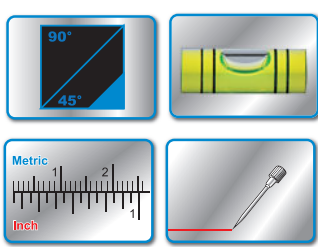
- A - LCD
- B - Single Measure
- C - Addition
- D - Subtraction
- E - Clear / Power
- F - Functions Included Single Measure, Continuous Measure, Area, Volume, Six Indirectly Height Measurements, Stake-out, Level, Unit and Setting
- G - Reference
- H - Receiving Lens
- I - Laser Emitted Window

KT NO.	Size (mm) L x W x H		
7DM1160	105 x 48 x 21	200	1 / 40

# Measuring

## 79062

- Adjustable square measuring with angle spirit level 305mm
- Sliding combination of square, spirit level, height gauge and steel rule
- 90° and 45° level allow try-square and metre-square work
- Metal scriber pin in the end
- Metric and imperial marking at both sides
- Precision cast zinc alloy and stainless blade
- For woodwork



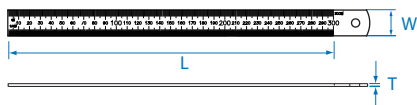
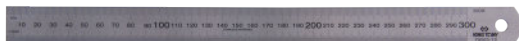
KT NO.	mm	Inch		
79062-12	305	12	312	12 / 72



## Stainless Ruler

**79063**

- Stainless steel deeply etched for easy reading
- Dual scale : metric & imperial marking (mm/inch)

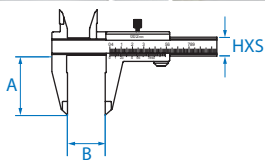


KT NO.	L		W mm	T mm	g	Box / Qty
	mm	Inch				
79063-06	150	6	13	0.6	12	10 / 500
79063-12	300	12	30	0.8	65	10 / 300
79063-20	500	20	30	0.8	105	10 / 250
79063-40	1000	40	30	0.8	360	10 / 100

## Calipers

**77131**

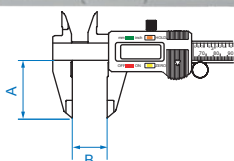
- Vernier calipers parallax free
- Parallax free bevel scales for easy and accurate measurement
- 4 way measurement capability for outside, inside, depth and step measurement
- The caliper is made of hardened stainless steel



KT NO.	A mm	B max mm	Vernier mm	H x S mm	g	Box / Qty
77131-08	50	200	0.02	20 x 4	450	1 / 50

**77141**

- Digital calipers
- Digital display slide calipers with thumb roller
- Large clear LCD on/off, metric/imperial, zero switches
- Hold function allows quick and efficient inspection record
- Made of hardened stainless steel



KT NO.	A mm	B max		Resolution		g	Box / Qty
		mm	Inch	mm	Inch		
77141-06	40	150	6	0.01	0.001	320	1 / 20
77141-08	50	200	8	0.01	0.001	485	1 / 50

## Metric Feeler Gauge

- Material: blade made of spring steel

**77340-20**

- 20 blades metric feeler gauge

CONTENTS :

- 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00 mm



KT NO.	Number of blades	Width x Length of blades (mm)	g	Box / Qty
77340-20	20	10 x 100	105	50 / 200

**77335-25**

- 25 blades metric feeler gauge

CONTENTS :

- 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00 mm



KT NO.	Number of blades	Width x Length of blades (mm)	g	Box / Qty
77335-25	25	13 x 85	105	50 / 200

**77328-26**

- 26 blades inch feeler gauge

CONTENTS :

- 0.0015", 0.002", 0.0025", 0.003",
- 0.004", 0.005", 0.006", 0.007",
- 0.008", 0.009", 0.010", 0.011",
- 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025"
- 0.038, 0.051, 0.063, 0.076, 0.102, 0.127, 0.152, 0.178, 0.203, 0.229, 0.254, 0.279, 0.305, 0.330, 0.356, 0.381, 0.406, 0.432, 0.457, 0.483, 0.508, 0.533, 0.559, 0.584, 0.610, 0.635 mm



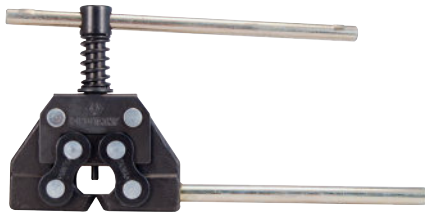
KT NO.	Number of blades	Width x Length of blades (mm)	g	Box / Qty
77328-26	26	12.7 x 76	91	14 / 168





## Roller Chain Detacher

3214



KT NO.	For chain size ANSI NO.		
3214-35	35~50	310	1 / 60
3214-60	60~100	691	1 / 20

## Revolving Punch Pliers

74A00

- To punch holes into leather, textiles and soft material
- Revolving steel head has unique waste collection facility



KT NO.	Punch size mm <sup>2</sup>	Overall length mm		
74A00	2, 2.5, 3, 3.5, 4, 4.5	230	366	10 / 60

## Retractable Tool Lanyard

79A21-30

79A22-30

- Retractable tool lanyard
- 3 kgs maximum tool weight
- Nylon tether with steel spring inside to absorb the shock of a dropped tool
- Increases safety and productivity
- Ergonomically designed length



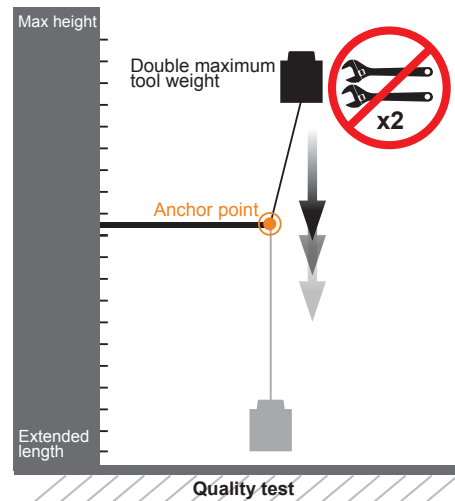
79A21-30



79A22-30



KT NO.	Capacity mm	Hook		
79A21-30	800~1300	2 lock snaps	106	12 / 144
79A22-30	800~1300	fixed loop	89	12 / 144



- The retractable tool lanyards are developed according to KING TONY standard. The steel lanyards are tested by double maximum weight and dropped from height. Product quality is approved.



## Round Magnetic Tool Holder



### 9TE11

- Stainless steel tray resists corrosion
- Can be used horizontally, vertically, and upside down
- Convenient for collecting small parts and tools



KT NO.	Size mm		
9TE11	Ø 150	433	1 / 30

## PU Working Gloves



### 9TH31-XL

### 9TH31-2L

- Strap design for easy adjustments
- Comfortable and breathable fabric material



KT NO.	Size	Width mm	Overall Length mm		
9TH31-XL	XL	107	235	70	100
9TH31-2L	2L	112	240	70	100

## Anti-vibration Protective Gloves

### 9TH21XL

- Protection from repetitive impact and vibration of pneumatic tools
- Magnet in back of glove for storing metal parts and fasteners

110 100



KT NO.	Size	Width mm	Overall Length mm		
9TH21XL	XL	112	235	110	100

## Lightweight PU Work Gloves

### 9TH41

- PU leather offers high dexterity, sensitivity, excellent grip and good comfort
- Mesh fabric provides good breathability
- Elastic band cuff with label velcro provides firm fitting
- EN388 2121X



KT NO.	Size	Width mm	Overall Length mm		
9TH41-L	L	105	230	67	120
9TH41-XL	XL	110	240	72	120

## Vibration Resistant Work Gloves

### 9TH42

- Goat leather palm provides high dexterity and comfort with EVA padding for anti-vibration
- Touch screen capable fingertips
- Mesh fabric provides good breathability
- Neoprene cuff with velcro adjustment ensures firm fitting
- EN388 2111X



KT NO.	Size	Width mm	Overall Length mm		
9TH42-XL	XL	115	250	98	120
9TH42-XXL	XXL	120	260	102	120

## Silicone Non-slip Work Gloves

### 9TH43

- Durable palm with anti-slip silicone for excellent grip. EVA padding for anti-vibration
- Reflective piping ensure safe work in dark
- Elastic band cuff with label velcro provides firm fitting
- EN388 2111X



KT NO.	Size	Width mm	Overall Length mm		
9TH43-XL	XL	115	247	102	120
9TH43-XXL	XXL	120	257	108	120



## Cold Protection Work Gloves

### 9TH44

- Nubuck leather palm is breathable, foam insert for extra comfort and anti-vibration
- Reflective piping ensure safe work in the dark
- Neoprene cuff with velcro adjustment ensures firm fitting
- Thinsulate insulation lining offers extra warmth
- EN388 2111X



KT NO.	Size	Width mm	Overall Length mm		
9TH44-XL	XL	120	250	105	120
9TH44-XXL	XXL	125	260	113	120

## Magnetic Work Gloves

### 9TH45

- Durable palm with magnetic index finger
- Powerful magnetic on back for storing metal parts & fasteners
- Elastic band cuff with label velcro to ensure firm fitting
- EN388 3111X



KT NO.	Size	Width mm	Overall Length mm		
9TH45-XL	XL	120	250	92	120
9TH45-XXL	XXL	125	260	98	120

## Silicone Trowel & Scraper

### 7AA105

- Suitable for removing old caulking and replacing new caulking
- The trowel head with chamfer which is easy for smooth sealing lines
- The stainless tip prevent the surface from being damaged



KT NO.	Size	Overall length mm		
7AA105	3R, 6R, 10R, 13R, 17R	204	100	24 / 48



5 PC.

- Includes Five different nozzle pad head

## High Thrust Caulking Gun

### 7CA81-30H

- Cartridge caulk gun
- For 10oz / 300ml cartridges
- 26:1 high thrust ratio provide 450 kgf push force
- Apply extremely thicker materials and adhesives
- Smooth action provide cleaner sealant



- Adjustable screw tightening increases product lifespan

KT NO.	Overall length mm		
7CA81-30H	357	814	1 / 10



26:1 Thrust ratio



## High Thrust Aluminum Tube Caulking Gun

### 7CA82-30

- Suitable for 310ml cartridges or bulk
- Professional caulk gun with 18:1 high thrust ratio
- Includes nozzle and pad
- 350kgs maximum thrust power, perfect for applying thicker materials, adhesives
- Application: glass, windowsill, bathroom, etc.

KT NO.	Overall length mm		
7CA82-30	352	965	1 / 10



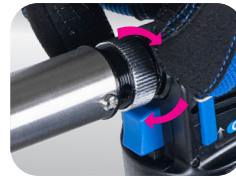
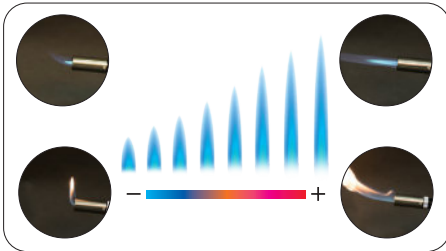
18:1 Thrust ratio



# Butane Torch

## 6BB11

- Adjustable flame length with a maximum temperature of 1300°C / 2450°F and will operate on a single fill for 60~90 minutes
- Quick and easy to refill gas only 5 seconds
- A ceramic partition in the nozzle, fast heat dissipation and high safety
- Aluminium body, lightweight and portable
- Built in child proof safety lock system
- Applications include soldering, brazing, heat shrink tubing, frozen locks, fusing rope ends, camping, etc...
- Suitable for workshops, factories and daily professional use
- Anti-flare gas flow tube
- Piezo ignition for instant flame



• Refilling gas

• Turn the air flow control switch to change the fire type



• Push the safety latch up

• Turn the gas flow control switch counter-clockwise

• Press the ignition button

KT NO.	Gas Capacity (ml)	Operation Time (min)	Gas Type	flame Temp °C/°F	Dimension L x W x H (mm)		
6BB11	34	60~90	Butane	1300 / 2450	122 x 70 x 168	400	12 / 24

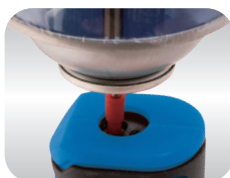
# Cordless Butane Gas Glue Gun

## 6BJ21

- Self-regulating temperature system, avoiding the glue keeping coming out to stuck the nozzle or drip everywhere
- Fast-heating in 2 to 3 Minutes
- Quick and easy to refill gas only 3s, keeps running for approximately 1.5 hours
- Front top heater design for safety usage
- Portable and cordless for convenient application
- Passed the 250 hour continuous work durability test
- Included 2 PC. 11mm glue stick
- Suitable for wood workings, household repairs, artificial flowers, models, art and decorations etc...
- Optional glue stick 6BJ901, pack by 10 PC.
- Ergonomic comfort grip



6BJ21



• Refilling gas

• Turn the gas switch on

• Press the ignition button and wait 2-3 min (Make sure the indicator on)

• Automatic temperature control turns off at 180° and turns on under 160°



6BJ901

KT NO.	Gas Capacity (ml)	Operation Time (min)	Glue size (mm)	Gas Type	Operating Temp °C	Dimension(mm) L x W x H		
6BJ21	6.8	90	11	Butane	160-180	175 x 36 x 155	241	1 / 10
6BJ901	-	-	11	-	-	∅11 x 150mm	140	10





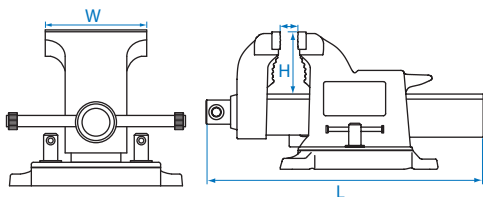
## 360° Cast Steel BenchVise & Display Rack

### 9TZ11

- Cast steel body and slide ideal for heavy duty applications
- Ductile cast iron screw pitched acme thread ensures long life and positives action
- Serrated jaws design provides good grip
- 360° swivel base allows operator to approach any direction



- Applicable for round shape objects



KT NO.	mm	W		H mm	L mm	Kg	Crate
		inch	mm				
9TZ11-04	146	4"	104	57	310	7.50	1
9TZ11-05	166	5"	130	67	365	11.00	1
9TZ11-06	200	6"	155	76	422	14.50	1
9TZ11-08	225	8"	200	89	492	18.00	1
9TZ11-10	250	10"	250	102	572	25.60	1
9TZ11-12	300	12"	305	127	655	33.00	1

## Steel Wire Brush Set

### 9CZ201-S



20 PC.

Contents

Contents	Kg	Crate
9CZ201 x 20 PC.	2.70	1 / 8

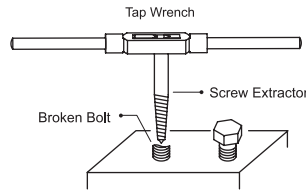
## Broken Screw Extractor Set

### 11205SQ

- A quick and easy way to remove broken screw, pipe, bolt and stud

100 25 / 100

5 PC.



KT NO.	Capacity		L mm
	mm	inch	
2127-06M	M3~M6	1/8~1/4	51.5
2127-08M	M6~M8	1/4~5/16	58.0
2127-11M	M8~M11	5/16~7/16	66.0
2127-14M	M11~M14	7/16~9/16	73.5
2127-18M	M14~M18	9/16~3/4	81.0

### 11208SQ

- Quick and easy to remove broken screw, pipe, bolt and stud

829 6 / 24

8 PC.



KT NO.	Capacity		L mm
	mm	inch	
2127A-06M	M3~M6	1/8~1/4	51.5
2127A-08M	M6~M8	1/4~5/16	58.0
2127A-11M	M8~M11	5/16~7/16	66.0
2127A-14M	M11~M14	7/16~9/16	73.5
2127A-18M	M14~M18	9/16~3/4	81.0
2127A-24M	M18~M24	3/4~1	91.0
2127A-33M	M24~M33	1~1-3/8	106.0
2127A-50M	M33~M50	1-3/8~2	112.0

## Broken Screw Extractor and Drill-Bit Set

### 11310SQ

- Material : Drill-Bit(HSS), screw extractor(GCr15)
- Metal case size (mm) :  
149 x 115 x 24 (0.014 cuft)

Contents

0.4 1 / 40

	ø2.5, ø3, ø4.5, ø6, ø8
	#1 M3 - M6 1/8" - 1/4"
	#2 M6 - M8 1/4" - 5/16"
	#3 M8 - M11 5/16" - 7/16"
	#4 M11 - M14 7/16" - 9/16"
	#5 M14 - M18 9/16" - 3/4"

10 PC.

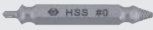



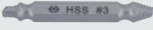
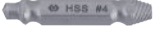


# Speed Out Broken Screw Extractor Set

11406SQ

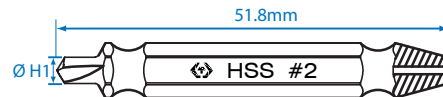
- For stripped, broken, stuck or damaged screw removal
- Size includes: #0, #1, #2, #2, #3, #4
- High hardness HSS material makes drilling easier and faster
- The screw extractor set is tested with quality, efficiency, durability and stability

82 12 / 96

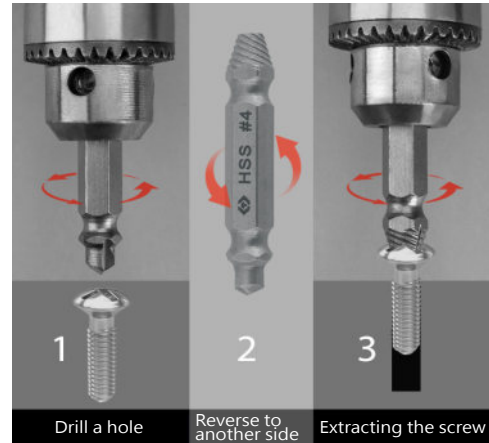
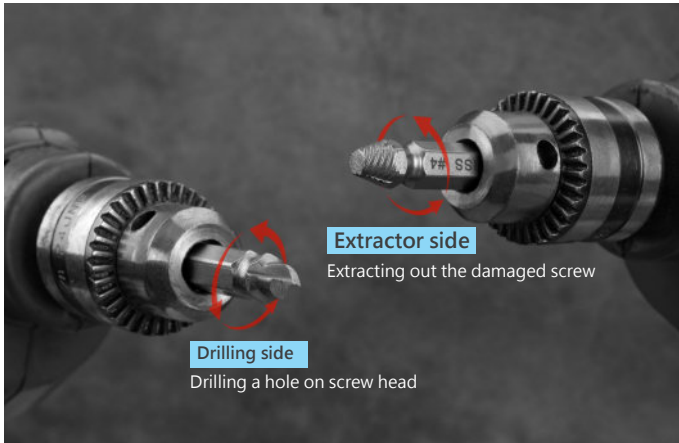
Specifications	Drill Size Ø H1	Suitable for Screw Diameter
	2.5	2-3mm
	3.0	3-5mm
	3.5	4-8mm
	3.5	4-8mm
	4.0	5-10mm
	6.0	6-12mm



6  
PC.



3 steps:

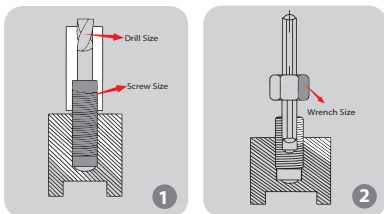


# Broken Screw Extractor & Drill Set

11225SQ

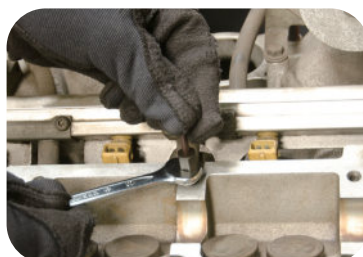
- Easy to remove 5~14 mm broken screws
- 15 PC. HSS drill bit & center guide
- 10 PC. extractor pin & nut

0.79 1 / 20



25  
PC.

Blow case size (mm) :  
260 x 175 x 60 (0.096CUFT)



- Use the guide to drill a pilot hole in the center of broken screw
- Put on extractor nut turning out broken screw with wrench



# Nut Splitter Set

## 9TD062

- For removing stubborn nuts or over tightened bolts without damaging the bolt thread
- Suitable for nuts to a tensile class 6
- Do not overtighten to prevent damage to the threads under the nut

0.61 12 / 36

KT NO.	inch	Capacity mm	Hex (mm)
9TD602	1/2"~5/8"	12~16	14
9TD603	5/8"~7/8"	16~22	19



## 9TD064

Blow case size (mm) :  
260 x 175 x 60 (0.096CUFT)

1.89 1 / 12

KT NO.	inch	Capacity mm	Hex (mm)
9TD601	5/16"~1/2"	9~12	12
9TD602	1/2"~5/8"	12~16	14
9TD603	5/8"~7/8"	16~22	19
9TD604	7/8"~1-1/8"	22~27	21



# 1/2" DR. Damaged Nuts Remover Socket & Set

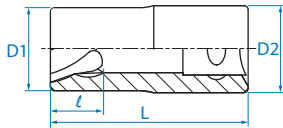


Can't be used with pneumatic wrench

## 9TD403

1/2"

- Made of top quality SNCM alloy steel, provide good wear resistance and durability
- Ideal for the removal of rounded, damaged or corroded nuts, bolts, oil drain plugs, marine nuts and bolts, exhaust manifold nuts, pipe nozzle, and studs
- No need for pounding, chisels or torches



KT NO.	D1 mm	D2 mm	l mm	L mm			
9TD403-10M	16.0	22	8	50	76	10 / 180	
9TD403-12M	18.0	22	11	50	78	10 / 180	
9TD403-13M	20.0	22	11	50	85	10 / 180	
9TD403-14M	21.0	22	11	50	88	10 / 180	
9TD403-17M	24.5	25	15	50	113	10 / 180	
9TD403-19M	27.0	27	15	50	124	8 / 80	
9TD403-21M	29.4	27	16	50	139	8 / 80	
9TD403-22M	30.5	27	17	50	140	8 / 80	
9TD403-23M	31.8	27	17	50	119	8 / 80	
9TD403-24M	33.0	27	17	50	143	8 / 80	
9TD403-27M	36.0	27	18	50	145	8 / 80	

## 9TD

1/2"



KT NO.	Contents			
9TD034MR	21, 22, 23, 27	0.58		
9TD035MR	9TD403 12, 13, 14, 17, 19	0.52	4/36	
9TD036MR	10, 12, 13, 14, 17, 19	0.60		

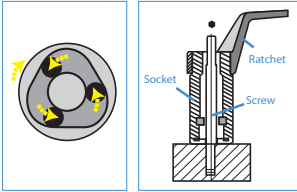


# Roller Stud Extractor Socket & Set

**9TD401**

**1/2"**

- For tightening or loosening studs



KT NO.	mm	D1 mm	D2 mm	L mm	kg	1 / 8
9TD401-06M	6	24.5	21	60	131	10 / 180
9TD401-08M	8	24.5	21	60	128	10 / 180
9TD401-10M	10	27.5	21	69.5	180	12 / 120
9TD401-12M	12	27.5	21	69.5	179	12 / 120

**9TD014MR**

**1/2"**

- 4 stud drivers for sizes M6, M8, M10 and M12

0.83 kg 1 / 30

Blow case size (mm) :  
210 x 111 x 49 (0.04CUFT)



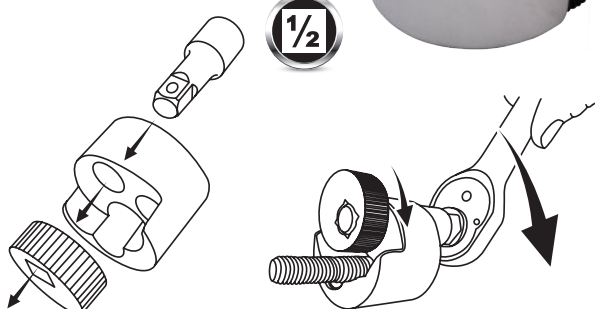
**4 PC.**

# Stud Remover Tool

**9TD404-0619M**

- Stud range: 6-19mm (1/4" - 3/4")
- Allows for easy removal of studs. Turn extractor with a ratchet, wrench or socket to engage the cam and stud, then pull out stud

0.64 kg 1 / 24



# Long Twist sockets set

- For removing damaged wheel nuts and locking nuts. Especially useful on deep seated wheel nuts on modern alloys
- Twisting socket design is easily to remove stripped lug nut
- Straight kick out bar 12x160mmL
- Length:146mm

**9TD164MR**

**4 PC.**



Contents

1.36 kg 1 / 8

9TD406	17, 19, 21
7641206P	

**9TD165MR**

**5 PC.**



-Grip and remove damage bolt



-Kick out grip bolt by punch ground or hammer

Contents

1.70 kg 1 / 8

9TD406	17, 19, 21, 22
7641206P	



# Aviation Tin Snips

## 74010~74060

- Special drop forged CRMO with induction hardened edges 62HRC
- Blades with serrated edges fast cuts in sheet metal, aluminum, and much more
- Cut 1.2mm cold-rolled steel (18GA) low carbon steel
- Non-slip color code grips for superior control
- 74040 Notching bulldog style with higher cutting ability
- 74060 Extra-long compound action style compare to tin snips
- Special laborsaving design
- High tensile strength
- High torsional strength spring
- Solid and comfortable handle with non-slip design
- Hang-up hole for convenient storage
- Safety auto latch (D.PAT.)



74010



74020



74030



74040



74060

KT NO.	Overall length mm	Cutting length mm	Color of handle	Copper (soft)	Cutting capacities (mm)			Stainless steel304	g	/	/
					Cold-rolled steel (soft)	Hard steel HRC 30 (Hard)					
74010	248	35	Red	1.50	1.20	0.80	0.70	375	6	48	
74020	248	35	Green	1.50	1.20	0.80	0.70	375	6	48	
74030	250	38	Yellow	1.50	1.20	0.80	0.70	380	6	48	
74040	230	25	Yellow	2.00	1.60	1.20	1.20	370	6	36	
74060	290	75	Orange	1.10	0.94	0.70	0.53	450	6	36	

# Figure Tin Snips

## 74250~74270

- Special drop forged CRMO with induction hardened edges 63HRC
- Blades with serrated edges fast cuts in sheet metal, aluminum, and much more
- Cut 1.5mm cold-rolled steel (16GA) low carbon steel
- Non-slip color code grips for superior control
- Special laborsaving design
- High tensile strength provided
- High torsional strength spring designed
- Solid and comfortable handle with non-slip design
- Hang-up hole for convenient storage
- Safety auto latch (D.PAT.)



74250



74260



74270

KT NO.	Overall length mm	Cutting length mm	Color of handle	Copper (soft)	Cutting capacities (mm)			Stainless steel304	g	/	/
					Cold-rolled steel (soft)	Hard steel HRC 30 (Hard)					
74250	260	35	Orange	1.80	1.50	1.00	0.90	480	6	36	
74260	260	35	Blue	1.80	1.50	1.00	0.90	480	6	36	
74270	260	35	Yellow	1.80	1.50	1.00	0.90	480	6	36	



# Straight Pattern Snips

## 74410~74416

- Drop forged of finest quality steel induction hardened edges 60HRC
- Cuts straight flat face guides tool along straight line
- Blades individually hand edged for maximum cutting efficiency
- Cushion handle for comfort and better grip



74410 ~ 74416

KT NO.	Overall length mm	Cutting length mm	Copper (soft)	Cutting capacities (mm)			Stainless steel304	Scales	Boxes
				Cold-rolled Steel (soft)	Hard steel HRC 30 (Hard)				
74410	254	51	0.94	0.78	0.60	0.45	480	6 / 36	
74412	305	70	1.15	0.91	0.70	0.63	650	6 / 24	
74414	356	76	1.41	1.20	1.00	0.70	780	6 / 24	
74416	415	63	2.00	1.60	1.20	1.00	1700	3 / 12	

# Curved Tin Snips

## 74512

- Drop forged of finest quality steel induction hardened edges 60HRC
- Double curved, hollow ground blades reduce friction for easier cutting
- British Gilbow type
- Cushion handle for comfort and better grip

## 74514



74512 / 74514

KT NO.	Overall length mm	Cutting length mm	Copper (soft)	Cutting capacities (mm)			Stainless steel304	Scales	Boxes
				Cold-rolled steel (soft)	Hard steel HRC 30 (Hard)				
74512	305	60	1.15	0.91	0.70	0.63	670	6 / 24	
74514	356	65	1.40	1.20	1.00	0.70	920	6 / 24	

# Duckbill Pattern Snips

## 74613

- Drop forged of finest quality steel induction hardened edges 60HRC
- Cuts moderately tight curves left, right or straight in light stock
- Blades individually hand edged for maximum cutting efficiency
- Cushion handle for comfort and better grip



KT NO.	Overall length mm	Cutting length mm	Copper (soft)	Cutting capacities (mm)			Stainless steel304	Scales	Boxes
				Cold-rolled steel (soft)	Hard steel HRC 30 (Hard)				
74613	330	72	1.20	0.84	0.61	0.61	720	6 / 24	

# Saw

## 7911-12

- Sliding metal bow
- Lightweight, resistant to oxidization and oil
- Two blade positions 45° and 90° including flush cut
- Ergonomic handle with hand stop
- Handle material : Zinc frame, soft grip TPR handle



KT NO.	Adjustable blade length (mm)	Overall length mm	Scales	Boxes
7911-12	300	400	637	6 / 36





# Saw

## 7921-12

- Sliding metal bow
- Handle material : ABS+TPR
- Lightweight & anti-slippery
- Four blade positions 45°, 90°, 135°, 180° including flush cut
- Spare blades can be stored



KT NO.	Adjustable blade length (mm)	Overall length mm		
7921-12	300	510	555	12 / 24

# File

## 7510G

- Flat file



KT NO.	Size mm		L mm			
75101-08G	8		200	4.8	20.0	188 2 / 40
75101-10G	10		250	5.7	23.6	292 2 / 40
75102-08G	8		200	4.8	20.0	190 2 / 40
75102-10G	10		250	5.7	23.6	293 2 / 40

## 7520G

- Half round file



KT NO.	Size mm		L mm			
75201-08G	8		200	6.7	19.9	190 2 / 40
75201-10G	10		250	7.0	23.5	292 2 / 40
75202-08G	8		200	6.7	19.9	184 2 / 40
75202-10G	10		250	7.0	23.5	291 2 / 40

## 7530G

- Round file



KT NO.	Size mm		L mm			
75302-08G	8		200	7.2	127	2 / 40
75302-10G	10		250	9.2	172	2 / 40

## 7540G

- Triangle file



KT NO.	Size mm		L mm			
75402-08G	8		200	13.0	175	2 / 40
75402-10G	10		250	14.9	284	2 / 40

## 7550G

- Square file



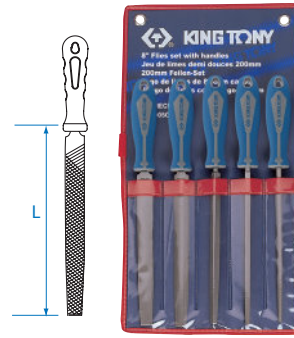
KT NO.	Size mm		L mm			
75501-08G	8		200	7.5	130	2 / 40
75501-10G	10		250	9.5	210	2 / 40
75502-08G	8		200	7.5	128	2 / 40
75502-10G	10		250	9.5	205	2 / 40

# File Set

## 1005GQ

- Bastard cut
- Designed for steel, cast iron, brass, and hard plastics
- Pouch material : Nylon

## 1015GQ



5 PC.

KT NO.	Contents	L inch		
1005GQ (for 8")	75102-08G	8"	0.9	1 / 20
	75202-08G			
	75302-08G			
1015GQ (for 10")	75102-10G	10"	1.4	1 / 8
	75202-10G			
	75302-10G			



# Needle File Set

• Pouch material : PVC

## 1036ZQ

- Perfect for filing off sharp edges, reshaping cuts or reaming drilled holes
- #60 grit diamond coating surface



6  
PC.

Contents

L mm

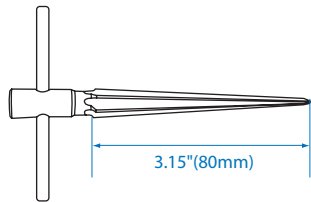
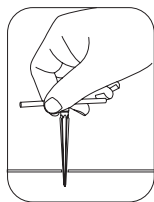
75135-06	75435-06			
75235-06	75535-06	160	95	10 / 120
75335-06	75035-06			

# Tapered Reamer

## 7E61001

- For deburring and sizing the diameter of holes 1/8" to 3/8"
- Suitable for metal, wood or plastic

70 24 / 96



# Threaded Coil-Insert Repair Set

## 11311MQ

- Thread tap for most common metric size : M5, M6, M8 and M10
- Used for repairing and restoring damaged threads
- Suitable for machine, engine and other automotive repair applications



119  
PC.

Metal case size (mm) : 350 x 216 x 40

Contents

2.78 1 / 5

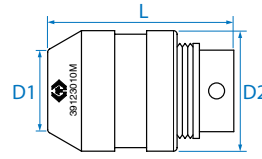
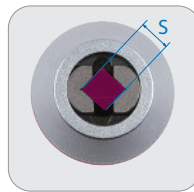
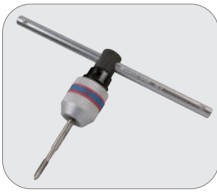
	Screw-Coil: M5x0.8x1.5D(L:7.5mm) M6x1.0x1.5D(L:9mm) M8x1.25x1.5D(L:12mm) M10x1.5x1.5D(L:15mm)	25 PC. 25 PC. 25 PC. 25 PC.
	Tap: M5x0.8 M6x1.0 M8x1.25 M10x1.5	1 PC. 1 PC. 1 PC. 1 PC.
	Tang Puncher: M5x0.8 M6x1.0 M8x1.25 M10x1.5	1 PC. 1 PC. 1 PC. 1 PC.
	Drill: 5.2mm 6.3mm 8.3mm 10.4mm	1 PC. 1 PC. 1 PC. 1 PC.
	Main Tool: M5x0.8 M6x1.0 M8x1.25 M10x1.5	1 PC. 1 PC. 1 PC. 1 PC.
	3571-08 3/8" drive sliding T-handle 3764-55G 3/8" drive mini reversible ratchet 39123010M 3/8" tap holder	



# Tap Holder

## 3912M

- Used with reversible ratchet and T-handle
- Chuck mechanism hold compatible tap drills
- Used for metal working screw thread




KT NO.	Drive	S(mm)		D1 mm	D2 mm	L mm	g	kg	/
		min.	max.						
39123010M	3/8"	2.0	6.0	23.0	34	53.0	221	4	/ 64
39123012M	3/8"	4.0	9.0	23.0	34	53.0	223	4	/ 64
<b>new</b> 39124012M	1/2"	6.0	12.0	25.3	38	52.4	265	4	/ 64
<b>new</b> 39124016M	1/2"	12.0	17.0	34.0	48.3	52.3	280	1	/ 48

# Drill-Bit Set

## 11325SQ

- Material : HSS
- Metal case size (mm) :  
197 x 115 x 58 (0.046 cuft)

25  
PC.

Contents		kg	kg	/
Drill - Bit		1.23	1	/ 20
		1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13		





# Tap and Drill-Bit Set

## 11328SQ

- Material : Drill-Bit(HSS), Tap(GCr15)
- Metal case size (mm) :  
195 x 115 x 57 (0.045 cuft)

28  
PC.

Contents		kg	kg	/
Drill - Bit		1.05	1	/ 20
Tap		M3x3, M4x3, M5x3, M6x3, M8x3, M10x3, M12x3		







# Tap & Die Set

## 12916MQ1

- Material : SK5 alloy steel
- 1 PC. Tap wrench(M3-M12, 1/8"~1/2")
- 1 PC. Die stock 25mm(1")
- Tap : M3~M12
- Die : M3~M12



16  
PC.

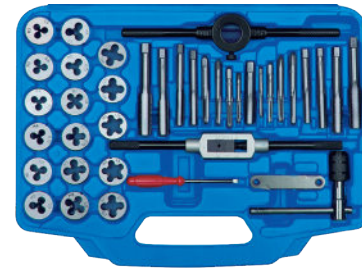
Contents		Kg 0.78	1 / 20
 12939MQ-A	M3x0.5, M4x0.7, M5x0.8, M6x1.0, M8x1.25, M10x1.5, M12x1.75	 25mm (1")	12939MQ-A01
 12939MQ-A		 M3~M12 (1/8"~1/2")	12939MQ-A02

## 12939MQ1









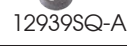
- Material : SK5 alloy steel
- 1 PC. Tap wrench(M3-M12, 1/8"~1/2")
- 1 PC. "T" Type tap wrench( M3-M6, 1/8"~1/4")
- 1 PC. Die stock 25mm(1")
- 1 PC. Screw driver
- 12939MQ1-  
1 PC. Screw pitch gauge (0.5-28)  
Tap : M3~M12 / Die: M3~M12
- 12939SQ1-  
1 PC. Screw pitch gauge(12-40)  
Tap : 1/8"~1/2" / Die : 1/8"~1/2"



## 12939SQ1



39  
PC.

KT NO.	Contents	Kg 1.4	1 / 10
12939MQ1	 12939MQ-A	12939MQ-A06 / M3x0.5, 12939MQ-A07 / M3x0.6, 12939MQ-A08 / M4x0.7, 12939MQ-A09 / M4x0.75, 12939MQ-A10 / M5x0.8, 12939MQ-A11 / M5x0.9, 12939MQ-A12 / M6x0.75, 12939MQ-A13 / M6x1.0, 12939MQ-A14 / M7x0.75, 12939MQ-A15 / M7x1.0, 12939MQ-A16 / M8x1.0, 12939MQ-A17 / M8x1.25, 12939MQ-A18 / M10x1.25, 12939MQ-A19 / M10x1.5, 12939MQ-A20 / M12x1.5, 12939MQ-A21 / M12x1.75, 12939MQ-A22 / 1/8NPT27	 25mm (1") 12939MQ-A01
	 12939MQ-A	12939MQ-A23 / M3x0.5, 12939MQ-A24 / M3x0.6, 12939MQ-A25 / M4x0.7, 12939MQ-A26 / M4x0.75, 12939MQ-A27 / M5x0.8, 12939MQ-A28 / M5x0.9, 12939MQ-A29 / M6x0.75, 12939MQ-A30 / M6x1.0, 12939MQ-A31 / M7x0.75, 12939MQ-A32 / M7x1.0, 12939MQ-A33 / M8x1.0, 12939MQ-A34 / M8x1.25, 12939MQ-A35 / M10x1.25, 12939MQ-A36 / M10x1.5, 12939MQ-A37 / M12x1.5, 12939MQ-A38 / M12x1.75, 12939MQ-A39 / 1/8NPT27	 M3~M12 (1/8"~1/2") 12939MQ-A02
	 12939MQ-A03	0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1.0, 1.25, 1.5, 1.75, 27, 28	 M3~M6 (1/8"~1/4") 12939MQ-A04
12939SQ1	 12939SQ-A	4NS36, 6NC32, 8NC32, 10NC24, 10NF32, 12NC24, 1/4NC20, 1/4NF28, 5/16NC18, 5/16NF24, 3/8NC16, 3/8NF24, 7/16NC14, 7/16NF20, 1/2NC13, 1/2NF20, 1/8NPT27	 12939MQ-A05
	 12939SQ-A03	12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40	







12 KING TONY

12000



# LIGHTING











# WIRELESS CHARGING

## Wireless Charging Slim Lamp

### 9TA267W

- 10W COB + 1W SMD (Top)
- White light color, kelvin : 6500K
- Material : Nylon+PC+TPE
- 360° Adjustable base
  - +180° hiding hook + Strong magnetic base
- Rechargeable battery : 3.7V - 4500mAh Li-ion battery
- Accessory : Type-C USB charging cable
- Four leds battery indicator
- Charging time : 4 hours by charger and 6~8 hours by wireless charging base
- Can be charged with wireless charging pad 9TA92W (not included)

1000  
Lumen

10W

3-15h

CE

RoHS

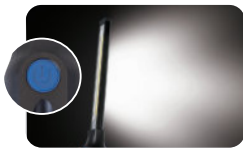
Type-C  
USB

Li-ion  
4500mAh  
3.7V

4h

IK07

Switch mode	Lumen	Operating hours
Top light	100 lm	15h
One light	500+500 lm	12~6h
Two light	250~500 lm	3h



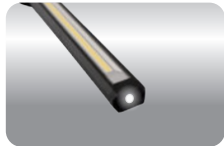
• One light source



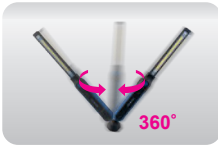
• Both side can be lit at the same time



• 180° hiding hook



• Top light



• 360° swivel head in vertical



• Wireless charging design

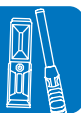


#### Contents

Wireless Charging Slim Lamp x 1 PC.

Type-C USB cable x 1 PC.

KT NO.	L mm		
9TA267W	400	335	1 / 20





# Wireless charging Dual-Light Pocket Lamp

## 9TA44W

- 8W COB LED + 3W SMD
- White light color, kelvin : 6500K
- Dual light and spot mode, flood mode
- IP65 waterproof and dustproof, IK07 vandalproof
- 180° flexible handle + super strong magnet on the handle
- Rechargeable battery : 3.7V - 2600mAh Li-ion battery
- Accessory : Type-C USB fast charging cable
- 3 LED battery status indicators
- Charging time : 4 hours by USB cable, 6-7 hours by wireless charging base(The charging time depends on the changing power of the wireless charging base )
- Can be charged with wireless charging pad 9TA92W( not included )



RoHS

Switch mode	Lumen	Operating hours
Spot light	250 lm	4.5h
Flood light low	160 lm	10h
Flood light mid	400 lm	4.5h
Flood light high	800 lm	2.5h



• LED battery status indicators



• 180° flexible direction



• Super strong magnet on the handle



• Easy to carry



• Wireless charging design

### Contents

Dual - light pocket lamp		x 1 PC.
Type-C USB cable		x 1 PC.

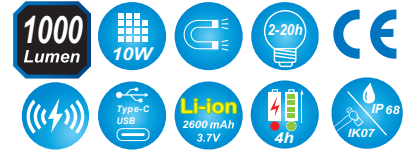
KT NO.	L mm		
9TA44W	97 x 83 x 39	218	1 / 24



# 10W Wireless Charging Flashlight

## 9TA71W

- Chips: High quality 10w LED, 6500K
- Switch mode:
  - Spot Light mode (Eco-Low-Mid-High)
  - Strobe mode: press and hold the switch for two seconds
- Battery: rechargeable high quality 3.7V 2600mAh Li-ion
- Charging time: 4 hours by charger and 6~8 hours by wireless charging base (The specific charging time depends on the power of the charging base)
- IP68 waterproof and IK07 vandalproof
- Features:
  - Wireless charging function
  - Super strong magnets on the light
  - Three LED battery indicators show the charging and working
- Working temperature: -10°C to +40°C
- Accessory: type-C fast charging cable
- Can be charged with wireless charging pad 9TA92W



RoHS



Switch mode	Lumen	Operating hours
Spot light eco	5 lm	200h
Spot light low	30 lm	25h
Spot light mid	400 lm	4h
Spot light high	1000 lm	2h



• Main switch



• Type-C USB charger port



• Wireless charging



• Hanging hole



• Press and hold the switch for two seconds



• Super strong magnets on the light

KT NO.	L mm	g	Box
9TA71W	160	215	1 / 24

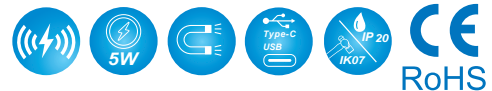
### Contents

Flashlight		x 1 PC.
Type-C USB cable		x 1 PC.

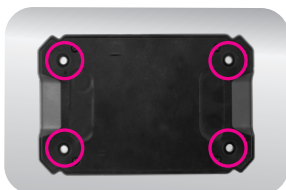
# Wireless Charging Pad

## 9TA92W

- Output power: 5W
- IP20 waterproof and IK07 vandalproof
- Features:
  - Built-in screw holes for wall mounting
  - Super strong magnets in the front and back
  - LED battery indicator shows the charging and working
- Working temperature: -10°C to +40°C
- Accessory: Type-C charging cable and 5V1A USB adapter
- Can be used by wireless charging light 9TA267W/9TA44W/9TA71W



RoHS

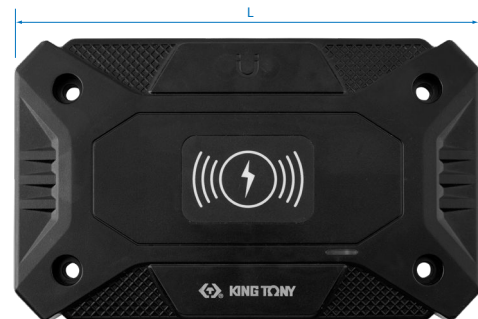


• Built-in screw holes for wall mounting



• LED battery indicator shows the charging and working

KT NO.	Applicable area	L mm	g	Box
9TA92WA	Europe	335	1 / 12	
9TA92WB	America & Asia	164	335	1 / 12
9TA92WD	Australia & New Zealand	335	1 / 12	



### Contents

5W output charger base		x 1 PC.
Type-C USB cable		x 1 PC.
5V1A USB charger		x 1 PC.



# INSPECTION LIGHTS

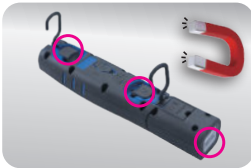
## 7W+4W Inspection Light

### 9TA242

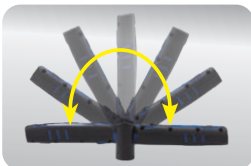
- Chips:
  - High quality 7W COB LED,6500K
  - High quality 4W SMD LED,6500K
- Switch mode: Top Torch-Main Light(Low-Mid-High)-Off
- Battery: rechargeable high quality 3.7V 2600mAh Li-ion
- Charging time: 4hr by charger
- IP65 waterproof and IK07 vandalproof
- Features:
  - 180° swivel base+Two 360° functional hooks
  - Two super strong magnets on the back and one on the base
  - Three LED battery indicators show the charging and working
- Working temperature: -10°C to + 40°C
- Accessory:Type-C USB Charging cable and 5V 1A USB charger



Switch mode	Lumen	Operating hours
Top light	200 lm	5h
Main light low	150 lm	8h
Main light mid	350 lm	4h
Main light high	700 lm	2h






- Two super strong magnets on the back and one on the base
- Two 360° functional hooks
- Type-C USB charger port



KT NO.	Applicable area	L mm	g	Icons
9TA242A	Europe	260	516	1 / 12
9TA242B	America & Asia	260	516	1 / 12
9TA242D	Australia & New Zealand	260	516	1 / 12

#### Contents

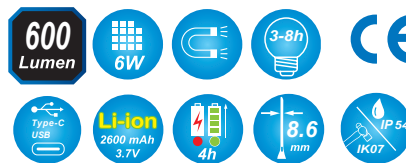
Inspection lamp		x 1 PC.
Type-C USB cable		x 1 PC.
USB charger		x 1 PC.



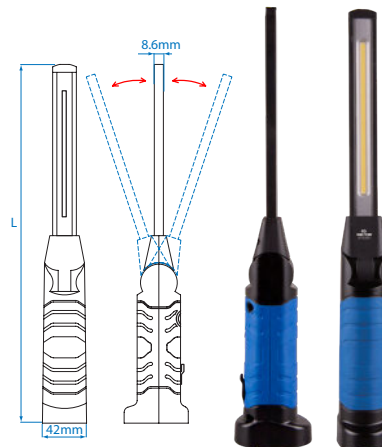
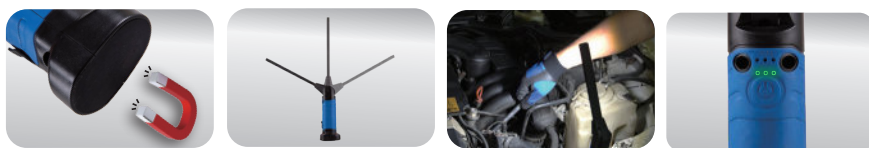
# 6W COB +1W SMD Slim Inspection Lamp

## 9TA261

- 6W COB + 1W SMD (Top)
- White light color, kelvin : 6500K
- IP54 waterproof and dustproof, IK07 vandalproof
- Materials : ABS plastic + rubber housing + PC lens + aluminium slim housing
- 120° Angle rotation & magnetic base
- Rechargeable battery : 3.7V - 2600mAh Li-ion
- Switch modes : Top light – Worklight low-Worklight high-Off
- Accessory : Type-C USB Charging cable and 5V 1A USB charger
- Charging time : 4 hours



Switch mode	Lumen	Operating hours
Top light	120 lm	8h
Main light low	250 lm	6h
Main light high	600 lm	3h



KT NO.	Applicable area	L mm	g	Box
9TA261A	Europe	340	300	1 / 12
9TA261B	America & Asia	340	300	1 / 12
9TA261D	Australia & New Zealand	340	300	1 / 12

### Contents

COB LED lamp		x 1 PC.
USB charger		x 1 PC.
Type-C USB cable		x 1 PC.

# Aluminum Folding Slim Lamp

## 9TA268

- White light color, kelvin : 6500K
- Material : PA + Rubber + Aluminum housing
- 180°swivel head in vertical + Strong magnetic base
- Rechargeable battery : 3.7V - 2600mAh Li-ion battery
- Accessory : Type-C USB Charging cable and 5V 1A USB charger
- Three leds battery indicator / Charging time : 4 hours



Switch mode	Lumen	Operating hours
Top light	120 lm	8h
Main light low	150 lm	8h
Main light high	800 lm	2.5h
Minor light low	120 lm	9h
Minor light high	400 lm	4h



- Super strong magnets on the bottom
- Top light
- Three leds battery indicator
- 180°swivel head in vertical

KT NO.	Applicable area	L mm	g	Box
9TA268A	Europe	200	193	1 / 40
9TA268B	America & Asia	200	193	1 / 40
9TA268D	Australia & New Zealand	200	193	1 / 40

### Contents

Pro Aluminium Rechargeable Slimlight		x 1 PC.
Type-C USB cable		x 1 PC.
Charger		x 1 PC.



# Flexible LED Slim Light

## 9TA251

- 5W COB + 3W SMD (Top)
- White light color, kelvin : 6000K~6500K
- IP54 waterproof and dustproof, IK07 vandalproof
- Material : PA + TPE housing
- Flexible Gooseneck + 90° hiding hook + Strong magnetic base
- Rechargeable battery : 3.7V - 2600mAh Li-ion battery
- Accessory : Type-C USB Charging cable and 5V 1A USB charger
- Three leds battery indicator
- Charging time : 4 hours



Switch mode	Lumen	Operating hours
Top light	120 lm	9h
Main light Min ~ Max	50~500 lm	16~2h



KT NO.	Applicable area	L mm	g	Box
9TA251A	Europe	475	322	1 / 12
9TA251B	America & Asia	475	322	1 / 12
9TA251D	Australia & New Zealand	475	322	1 / 12

### Contents

Flexible slim lamp		x 1 PC.
USB charger		x 1 PC.
Type-C USB cable		x 1 PC.



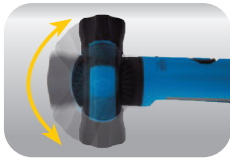
# 10W COB LED Adjustable Lamp

## 9TA33

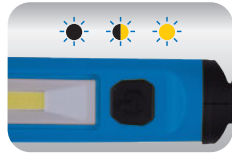
- White color, kelvin : 6500K
- Two steps adjustable light
- Material : ABS + PC
- IP20 waterproof and dustproof, IK07 vandalproof
- 170° magnetic swivel base + 360° body swivel knot + two 360° functional hooks
- Rechargeable battery : 7.4V - 2600mAh Li-ion
- Accessory : Type-C USB Charging cable and 5V 1A USB charger
- Charging time : 4.5 hours



Switch mode	Lumen	Operating hours
Low light	400 lm	5.5h
High light	1000 lm	2.2h



• 170° swivel base



• Two steps adjustable light



• Magnetic swivel base



• body swivel knot

KT NO.	Applicable area	L mm	g	Box
9TA33A	Europe	500	487	1 / 12
9TA33B	America & Asia	500	487	1 / 12
9TA33D	Australia & New Zealand	500	487	1 / 12



### Contents

10W COB LED adjustable lamp		x 1 PC.
USB charger		x 1 PC.
Type-C USB cable		x 1 PC.

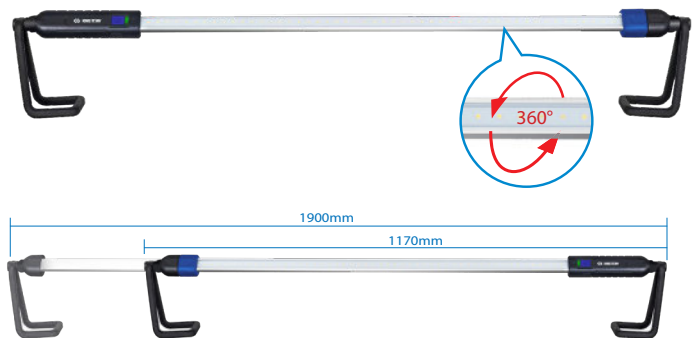
# LED Rechargeable Underhood Light

## 9TA34

- 20W SMD
- White color, 50x Super bright SMD LED, 6500K
- Material : Aluminum body + PA
- IP20 waterproof and dustproof, IK07 vandalproof
- Features : Durable housing, Hooks with Rubber, and lens 3 leds battery level indicator
- Battery: 3.6V4800mAh Li-ion battery with Type-C USB socket
- Accessory: Type-C USB Charging cable and 5V 2A USB charger
- Charging time : 4 hours



Switch mode	Lumen	Operating hours
Low light	500 lm	6.5h
Mid light	1000 lm	4h
High light	2000 lm	2h



KT NO.	Applicable area	L mm	g	Box
9TA34A	Europe	1170	1666	1 / 6
9TA34B	America & Asia	1170	1666	1 / 6
9TA34D	Australia & New Zealand	1170	1666	1 / 6
9TA34P01	3.6V4800mAh	70	1 / 1	

### Contents

360° Rotational Bar		x 1 PC.
5V/2A charger		x 1 PC.
Type-C USB		x 1 PC.
4800mAh Battery		x 1 PC.



# HEAD TORCHES

## Lightweight Rechargeable Neck Light

### 9TA54

- White light color, kelvin : 6500K
- IP54 waterproof and dustproof, IK07 vandalproof
- Features:  
The Neck light is lightweight, adjustable and comfortable around your neck  
The 2 light head can be adjusted independently up to 120° for a wider Lighting  
Circuit protection prevents battery from over-charging or over-discharging
- Rechargeable battery : Rechargeable high quality 3.7V 700mAh Li-ion
- 3 colors LED battery level indicator show the battery level  
Red Blinking: Low battery power warning  
Green Blinking: charging  
Green: Fully charged
- Charging time : 2.5 hours
- Temperature: -10°C to +40



Switch mode	Lumen	Operating hours
Low light	180 lm	5.5h
High light	350 lm	2.2h



- Lightweight, adjustable, comfortable
- 3 Colors LED indicator
- 120° Adjustable light head
- Type - C USB port

KT NO.	L mm		
9TA54	230 x 130 x 45	140	1 / 12

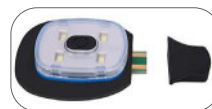
#### Contents

Lightweight Rechargeable Neck Light		x 1 PC.
Type-C USB cable		x 1 PC.

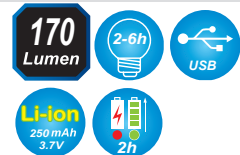
## Rechargeable LED Beanie Hat

### 9TA56

- Made of 100% acrylic, help you resist the cold wind, keep your head and ear warm
- Elastic material, fits for most of head circumference
- 3.7V 250mAh rechargeable Li-Polymer battery
- 4 built-in LED bulbs with 3 adjustable brightness level
- With reflective strip to make you easily be noticed in the dark
- Suitable for all kinds of outdoor activities
- Charging time : 2 hours



- Simply pop it out and charge it



Switch mode	Lumen	Operating hours
Low light	30 lm	6h
Mid light	60 lm	4h
High light	170 lm	2h



- Socket
- Laptop
- Car Charger
- Power Bank



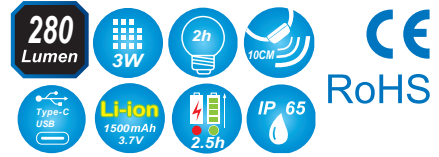
- reflective strip



# 3W COB LED Inductive Head Lamp

## 9TA52

- White light color, kelvin : 6500K
- IP65 waterproof and dustproof
- Materials : High impact ABS + TPE housing + PC lens & non-skid grip belt
- Feature : 10cm Smart motion sensor
- Rechargeable battery : 3.7V - 1500mAh Li-po
- LED battery charging indicator
- Charging time : 2.5 hours
- Accessory : Type-C USB Charging cable and 5V 1A USB charger



Switch mode	Lumen	Operating hours
Low light	100 lm	5.5h
High light	280 lm	2h



• Two step adjustable light



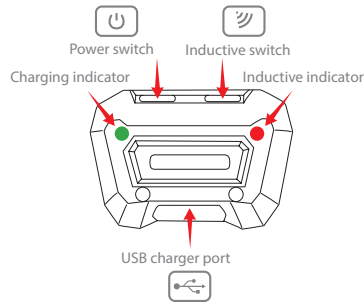
• 60° Adjustable lighting



• Inductive indicator ON



• Inductive light switch



KT NO.	Applicable area	L mm	g	mm	kg
9TA52A	Europe	65	110	1 / 40	
9TA52B	America & Asia	65	110	1 / 40	
9TA52D	Australia & New Zealand	65	110	1 / 40	

### Contents

COB LED lamp		x 1 PC.
Headband		x 1 PC.
USB charger		x 1 PC.
Type-C USB cable		x 1 PC.

# Twin-Beam Multifunctional Head Lamp

## 9TA53

- White light color, kelvin: 6500K
- Dual light mode, spot mode, flood mode
- IP65 waterproof and IK07 dustproof
- Materials : High impact ABS + PC housing + PC lens & non-skid grip belt
- Feature : 10 cm Smart motion sensor + 60° adjustment
- Battery : AAA alkaline battery (included)



Switch mode	Lumen	Operating hours
Spot light	20~400 lm	60~5h
Flood light	20~200 lm	60~4h
Red LED	0.5~20lm	70~10h
SOS light	strobe	



• Inductive light switch



• 60° Adjustable lighting



• Strobe for signaling



KT NO.	L mm	g	mm	kg
9TA53	68.8	89	1 / 12	

### Contents

COB LED lamp		x 1 PC.
Headband		x 1 PC.
AAA alkaline battery		x 3 PC.





# FLASHLIGHTS



## 1.5W COB +1 LED Lamp

### 9TA28

- 1.5W COB + 1W LED
- 180° magnetic swivel base + 270° magnetic swivel clip
- Rechargeable battery : 3.7V - 800mAh Li-ion
- Accessory : Type-C USB Charging cable
- Overcharge/Discharge protection
- Materials : ABS+PC
- Charging time : 2 hours
- White light color, kelvin : 7200K



Switch mode	Lumen	Operating hours
Top light	80 lm	3.5h
Main light	145 lm	2h



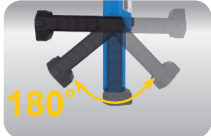
• magnetic base



• USB charger port



• Top light with 1 LED



• 180° swivel clip

KT NO.	L mm	g	ctn / pc
9TA28	180	160	12 / 48

• Magnetic swivel clip

270°



#### Contents

1.5W COB + 1 LED rechargeable work lamp		x 1 PC.
Type-C USB cable		x 1 PC.

## Rechargeable LED Pen Light

### 9TA281

- 1.5W -7 SMD + 1W SMD (Top)
- White light color, kelvin : 6500K
- IP20 waterproof and dustproof, IK07 vandalproof
- Material : ABS housing + Rubberized painting + PC lens
- Strong magnet on the clip
- Rechargeable battery : 3.7V 750mAh Li-ion
- Led charging indicator : Red -Charging, Green -Fulled
- Charging time : 2 hours
- Accessory : Type-C USB Charging cable



Switch mode	Lumen	Operating hours
Top light	80 lm	4h
Main light	120 lm	2.5h



KT NO.

L mm



9TA281

170

58

1 / 48



#### Contents

LED pen light		x 1 PC.
Type-C USB cable		x 1 PC.

# LED Pocket Torch

## 79815

- 3W High performance LED adjustable focus pocket torch
- Strobe warning lights for maximize visibility
- Aluminum alloy body, safety lanyard included
- Operates using 3 x AAA batteries (not included)



Switch mode	Lumen	Operating hours
Main light	120 lm	6.5h



KT NO.	L x Ø mm	g	Box / Carton
79815	128 x 28	95	1 / 100

# LED Pen Light

## 79831

- Pen light with 6 PC. SMD(surface-mount devices) LED
- ABS body 360 degree rotation
- PE lampshade : avoid nebulization
- Operates using 3 x AAA batteries (not included)



Switch mode	Lumen	Operating hours
Main light	135 lm	5.5h

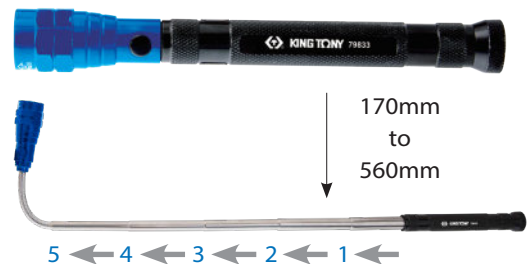
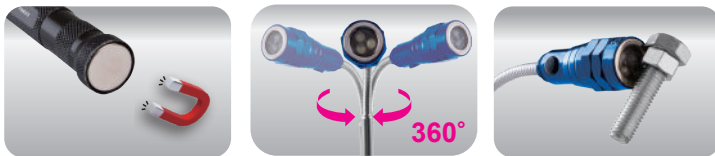


KT NO.	L x W x H mm	g	Box / Carton
79831	165 x 25 x 30	58	10 / 120

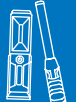
# LED Telescopic Torch

## 79833

- 3 LEDs, white light color
- Magnetic torch with 360° flexible head
- Extends up from 170mm to 560mm
- 4 x LR44 batteries included



KT NO.	L x Ø mm	g	Box / Carton
79833	170 x 22	100	10 / 120





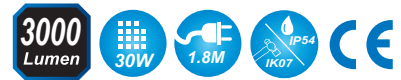


# SITE LIGHTS

## 30W Wired COB LED Site Light

### 9TA42

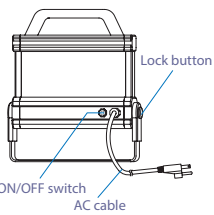
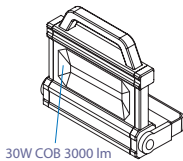
- 30W COB LED floodlight with portable handle
- White light color, kelvin : 6000~7000K
- Pass IP54 test
- Slim profile with lockable adjustment and 180° swivel base
- Option to wall mount or tripod stand at work sites
- Accessory : AC adapter cable 1.8M



Switch mode	Lumen
Main light	3000 lm



• Swivel base



KT NO.	Applicable area	L x H x W mm	Weight	Volume
9TA42A	Europe	238 x 270 x 46	1239	1 / 6
9TA42B	America & Asia	238 x 270 x 46	1239	1 / 6
9TA42D	Australia & New Zealand	238 x 270 x 46	1239	1 / 6



# 45W Twin Head SMD Site Light

## 9TA45

- 45W 120 PC. SMD LED
- White light color, kelvin : 5700K
- 90° vertical rotation & 180° horizontal rotation for angle of lighting
- Rechargeable battery : Replaceable 14.8V 5200 mAh Li-ion battery pack
- Accessory : 100-240V to 20V 1.1A charger
- 5 LED battery status indicator & USB 5V 2A output
- Charging time : 4.5 hours
- Material : PA + ABS + PC



Switch mode	Lumen	Operating hours
Work light 25%	750 lm	12h
Work light 50%	1500 lm	6h
Work light 75%	3000 lm	3h
Work light 100%	4500 lm	2h



- 180° horizontal rotation
- 90° vertical rotation
- Replaceable battery



- Power bank in case of emergency
- Anti-slip handle
- Option to fixation

KT NO.	Applicable area	L x W x H mm	Weight (kg)	Dimensions (mm)
9TA45A	Europe	288 x 176 x 131	2140	1 / 4



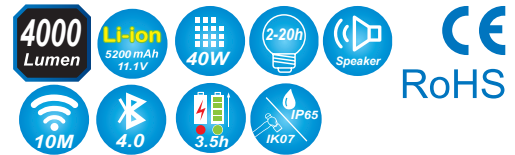
### Contents

45W Twin Head SMD Site Light		x 1 PC.
AC charger		x 1 PC.
Battery pack		x 1 PC.

# 40W COB Bluetooth Speaker Site Light

## 9TA46

- 40W COB LED
- White light color, kelvin : 6500K
- 140° vertical rotation + hiding hook on the bottom
- High performance integrated 10W Bluetooth speaker
- Rechargeable battery : 11.1V 5200 mAh Li-ion
- Accessory : 100-240V to 15V 1.5A charger
- 5 LED battery status indicator & USB 5V 2A out put
- 1 LED Bluetooth indicator
- Quick charging time : 3.5 hours
- Material : TPE + PA + aluminum + PC



Switch mode	Lumen	Operating hours
Eco light	400 lm	20h
Full power light	4000 lm	2h
Music mode	-	5~8h



- AC Charger
- Bluetooth on & battery indicator
- USB out put (Power bank)
- Anti-slip handle



- Option to fixation
- Hiding Hook
- 140° vertical rotation

KT NO.	Applicable area	L x W x H mm	Weight (kg)	Dimensions (mm)
9TA46A	Europe	210 x 210 x 100	1450	1 / 4



Bluetooth 4.0 10M

### Contents

40W COB Bluetooth Speaker Site Light		x 1 PC.
AC charger		x 1 PC.





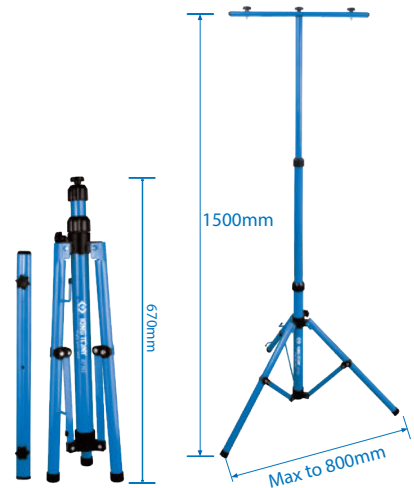
# ACCESSORIES



## Adjustable Tripod for Site Light

87162

- Can hold one light or 2 lights (with T-Bar)
- Durable heavy duty steel tripod body
- Three section tube diameter : 25mm / 32mm / 38mm
- Adjustable tripod height from 700mm to 1500mm
- Portable, easy to fold and great for transportation
- It is recommended to use with 9TA42 / 9TA45 / 9TA46 / 9TA48 (This product dose not contain lamps, please buy separately )

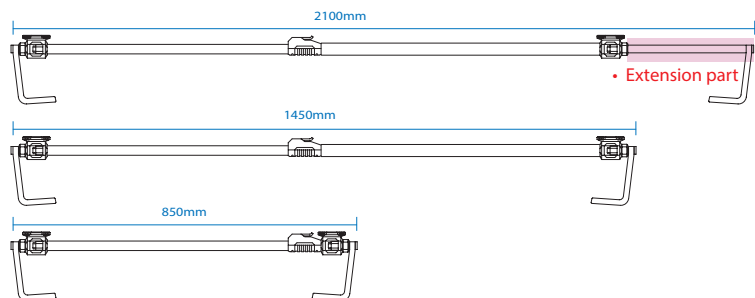
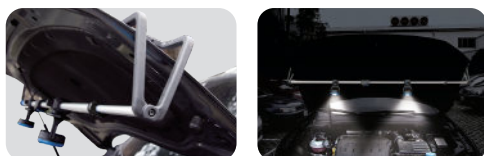


KT NO.	Tube Diameter (mm)	Loading Weight (kg)	Folded Length (mm)	Max height (mm)		
87162	38	3.0	700	1500	650	1 / 6

## Detachable Underhood Light Shelf

87163

- Two movable base fit all kinds of magnetic lights
- 360° horizontal rotating base for different lighting angle
- Three section length adjustment fit variety of occasions
- Durable heavy duty aluminum body + PA
- Anti-sliding clasp handle
- It is recommended to use with 9TA44W (This product dose not contain lamps, please buy separately )



- Three section length adjustment fit variety of occasions
- 360° horizontal rotating base for different lighting angle

KT NO.	Width (mm)	Height (mm)	Folding length (mm)	Extendable length (mm)		
87163	110	180	850	2100	1300	1 / 6





# AUTOMOTIVE TOOLS









# Tool Trolley Contents

286  
PC.



Contents No. 934-010MRVD

kg 28.8 CUFT 2.97

- Special tool set for Automobile, suitable for VOLKSWAGEN-GROUP, MERCEDES-BENZ, OPEL, BMW & Japanese passenger car



9-3544MRV #9 P.79

9-4537MRV #9 P.80

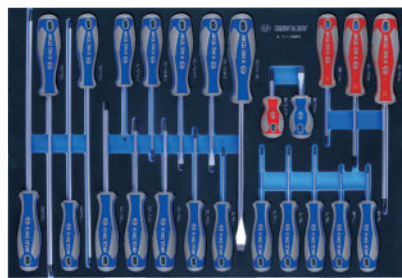
9-4147PRV  
#10 P.88

9-4401MPV  
#10 P.88

9-2565MRV #7 P.76  
9-4129PRV #7 P.77

9-90119MRV #9 P.82

9-1220MRV #9 P.81



9-31124MRV #6 P.122



9-40104GPV  
#10 P.88



9-40113GPV  
#10 P.88



9-90135MRV  
#10 P.88



9-90118PRV  
#10 P.89



## Tool Trolley Set

286  
PC.



kg 92.8  
CUFT 15.21



**934-010MRV**  
(87434-7B P.37)



**934-010MRV-G**  
(87434-7B-G P.37)



**934-010MRV-B**  
(87434-7B-B P.37)



kg 98.8  
CUFT 15.21



**9634-010MRV**  
(87634-7B P.39)



**9634-010MRV-G**  
(87634-7B-G P.39)



**9634-010MRV-B**  
(87634-7B-B P.39)





# ALFA ROMEO

## Diesel Engine Setting & Locking Set



### 9AT2006E

- The set includes flywheel holding tool, crankshaft locking tool and camshaft setting tools
- Suitable for Lancia, Alfa Romeo and Fiat engine
- Use to set and lock engine timing



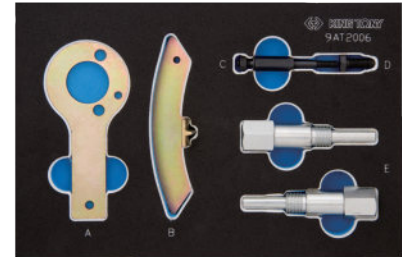
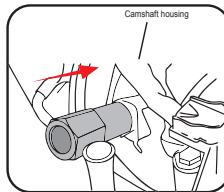
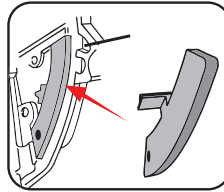
1360 1 / 10

#### MODEL:

145 (98-01), 146 (98-01), 147 (01-09)  
156 (97-08), 159 (05-09), 166 (98-08)  
GT (04-09), Brera (05-09), Spider (06-09)  
Crosswagon (04-08)

#### ENGINE CODE:

**1.9JTD 8v.**  
323.02, 371.01, 182B9.000, 937A2.000  
937A3.000, 939A1.000, 939A2.000,  
939A7.000  
**1.9JTD 16v.**  
192A5.000, 192B1.000, 937A4.000  
937A5.000, 939A2.000, 939A8.000  
**2.4JTD 10v.**  
325.01, 342.02, 362.02, 839A6.000  
841C.000  
**2.4JTD 20v.**  
841G.000, 841H.000, 841M.000  
939A3.000, 939A9.000



#### CONTENTS :

- A&C&D - crankshaft locking tool
- B - flywheel holding tool (crank pulley removal)
- E - camshaft setting tool (pair)

# BMW

## Petrol Engine Twin Camshaft Setting & Locking Set

### 9AT1018E

- The set includes camshaft / carrier bracket remover & installer tools
- Suitable for BMW petrol 1.8 and 2.0 N42 / N46 (chain) engine



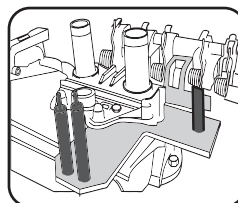
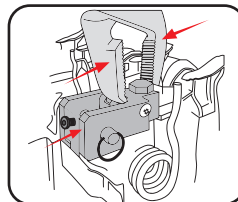
4400 1 / 3

#### MODEL:

118i. E87 (04-08)  
120i. E87 (04-08)  
316i. E46 (01-05)  
316ti. Compact E46 (01-05)  
318i. E46 (01-07)  
318ti. Compact E46 (01-05)  
318i. E90 (05-08)  
X3. 2.0i E83 (05-08)  
Z4. 2.0i E85 (04-08)  
520i. E60 (04-08)  
320i. E90 (05-08)

#### ENGINE CODE:

**N42 / N46**  
B18, B18A, B20, B20A, B20B



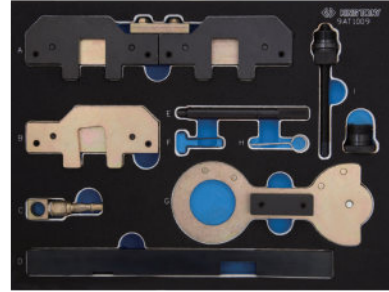
#### CONTENTS :

- A&H&I - camshaft/carrier bracket
- Mounting fixture
- B - inlet camshaft securing tool (rear)
- C&F - torsion spring remover/installer
- D&E - inlet camshaft securing tool (front)
- G - intermediate lever clamp set (8 PC.)



9AT1009E

- The set includes compressed air connector, twin VANOS setting tool and sprocket / chain assembly fixture, timing adjustment plate, pre-load tools
- Suitable for setting / locking popular BMW petrol engine
- Use to adjust engine timing and set / lock engine application



5966 1/3

MODEL:

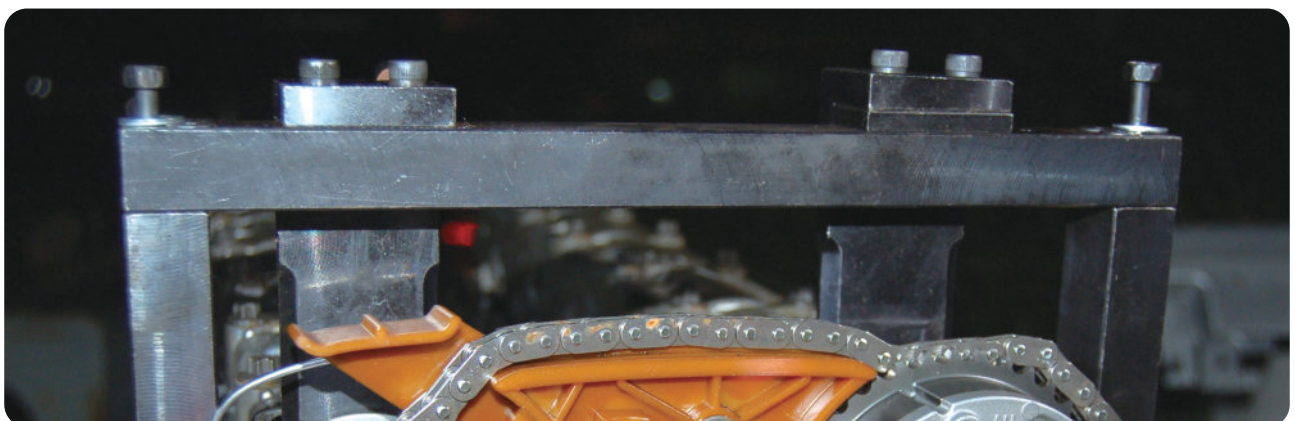
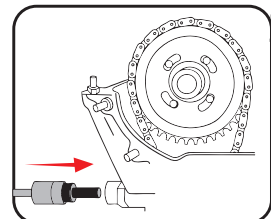
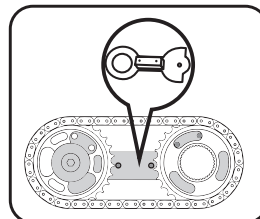
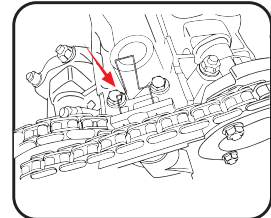
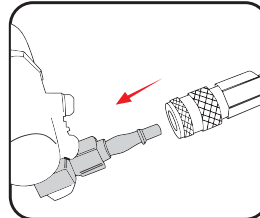
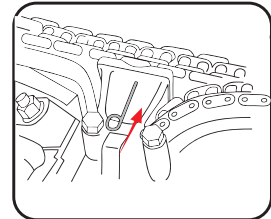
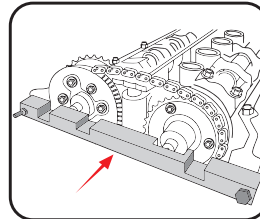
318is. E36 (92-99)  
 318ti Compact E36 (94-01)  
 320i. E36 / E46 (92-07)  
 323i. E36 / E46 (95-01)  
 325i. E36 / (92-07)  
 328i. E36 / E46 (95-01)  
 330i. E46 (00-07)  
 520i. E39 / E60 (96-05)  
 523i. E39 (96-00)  
 525i. E39 / E60 (00-05)  
 528i. E39 (96-00)  
 530i. E39 / E60 (00-05)  
 728i. E38 (94-02)  
 730i. E65 (02-05)  
 Z3. (E36) 1.9-3.0 (96-03)  
 Z4. (E85) 2.2-3.0 (03-06)  
 X3. (E83) 3.0 (03-06)  
 X5. (E53) 3.0 (99-07)

CONTENTS :

- A - camshaft setting plate
- B - timing adjustment plate
- C - compressed air connector
- D - sprocket / chain assembly fixture
- E - flywheel locking pin
- F - tensioner pin (M50)
- G - twin VANOS setting tool
- H - tensioner pin (M52)
- I - tensioner tool

ENGINE CODE:

M42 / M44 / M50 / M52  
 no VANOS (VVT)  
 18 4S 1, 19 4S 1, 20 6S 2(Early),  
 25 6S 2(Early)  
 M50 / M52  
 Single VANOS (VVT) variants  
 20 6S 2(Later)  
 20 6S 3  
 25 6S 2(Later)  
 M52(TU) / M54 / M56  
 Twin VANOS (VVT) variants  
 20 6S 4  
 22 6S 1  
 25 6S 4





## Petrol Engine Twin Camshaft Setting & Locking Set



### 9AT1102E

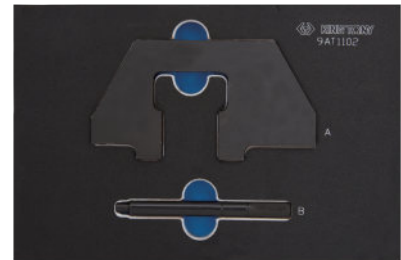
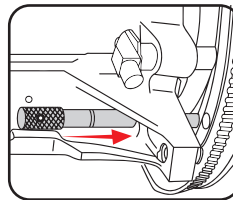
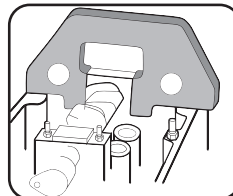
- The set includes camshaft locking plate and flywheel locking pin
- Suitable for M40 engines (also used on the M43 chain driven engine)
- Use to lock the camshaft and crankshaft TDC position to keep their timing relationship while replacing timing belt or carry out other timing belt service



1901 1 / 10

MODEL: 316i E36 / E46 (93-04)  
316i Compact E36 / E46 (98-01)  
318i E36 / E46 (93-01)  
518i E34 (94-96)  
Z3 1.8 / 1.9 E36 (96-03)

ENGINE CODE: M43  
16 4E 2, 16 4E 3  
18 4E 2, 19 4E 1



CONTENTS :  
• A - camshaft locking plate  
• B - flywheel locking pin

## Petrol Engine 1.8 To 3.0 Twin Cams Setting & Locking Set



### 9AT1106E

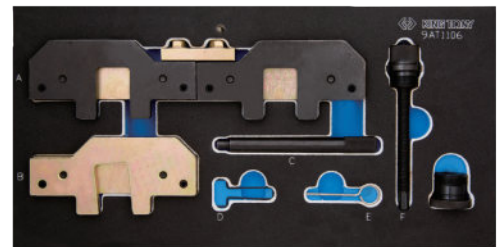
- The set includes camshaft setting plate, timing adjustment plate, pre-load tool, flywheel locking pin and tensioner pin
- Suitable for setting / locking popular BMW petrol engine
- Suggestion:  
Use with 9AT1-A02 wrench while using this kit on SINGLE VANOS system (on inlet camshaft)  
Use with 9AT1303 while using this set on TWIN VANOS system



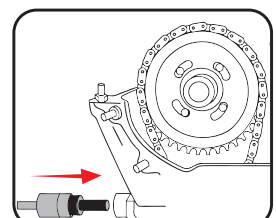
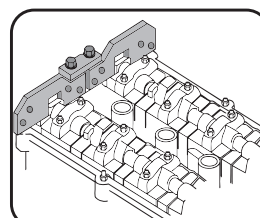
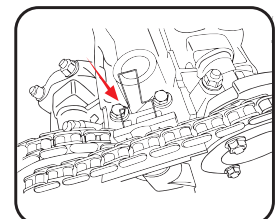
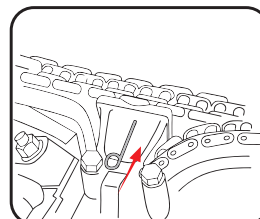
3781 1 / 5

MODEL:	318is. E36 (92-99)	525i. E39 / E60 (00-05)
	318ti Compact E36 (94-01)	528i. E39 (96-00)
	320i. E36 / E46 (92-07)	530i. E39 / E60 (00-05)
	323i. E36 / E46 (95-01)	728i. E38 (94-02)
	325i. E36 / E46 (92-07)	730i. E65 (02-05)
	328i. E36 / E46 (95-01)	Z3. (E36) 1.9-3.0 (96-03)
	330i. E46 (00-07)	Z4. (E85) 2.2-3.0 (03-06)
	520i. E39 / E60 (96-05)	X3. (E83) 3.0 (03-06)
	523i. E39 (96-00)	X5. (E53) 3.0 (99-07)

ENGINE CODE: M42 / M44 / M50 / M52 no VANOS (VVT)  
18 4S 1, 19 4S 1, 20 6S 2(Early), 25 6S 2(Early).  
M50 / M52 Single VANOS (VVT) variants  
20 6S 2(Later), 20 6S 3, 25 6S 2(Later),  
25 6S 3, 28 6S 1  
M52(TU) / M54 / M56 Twin VANOS (VVT) variants  
20 6S 4, 22 6S 1, 25 6S 4, 25 6S 5, 28 6S 2, 30 6S 3



CONTENTS :  
• A - camshaft setting plate  
• B - timing adjustment plate  
• C - flywheel locking pin  
• D - tensioner pin (M50)  
• E - tensioner pin (M52)  
• F - tensioner tool



# BMW

## Petrol Engine Timing Setting & Locking Set



### 9AT1206E

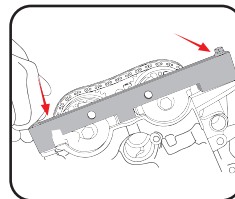
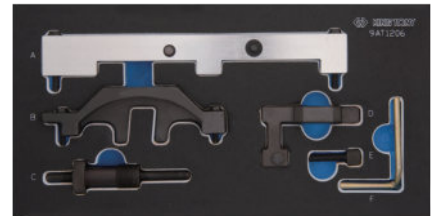
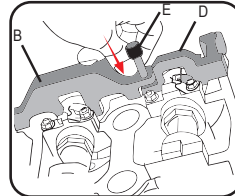
- The set includes VANOS alignment plate, camshaft setting tools, flywheel locking pin and timing chain tensioner pre-load tool
- Suitable for 1.6 BMW, 4 cylinder twin camshaft 16v and chain driven petrol engines with VANOS
- Use to check and adjust engine timing



2657 1 / 5

MODEL: 116i, E81 E87 (03-09)  
316i, E46 / E90 (01-08)  
316Ci, E46 (01-06)  
316ti, E46 (01-05)

ENGINE CODE: N40 / N45 / N45T  
B16, B16A, B16AC



#### CONTENTS :

- A - VANOS alignment plate
- B - camshaft setting plate (inlet)
- C - timing chain tensioner pre-load tool
- D - camshaft setting plate (exhaust)
- E - camshaft setting plate securing screw
- F - flywheel locking pin

# BMW

## Diesel Engine 2.5TDS Timing Set



### 9AT2106E

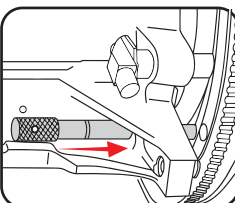
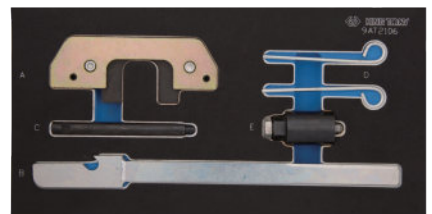
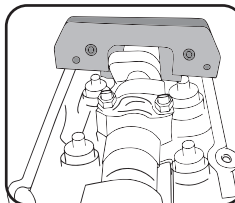
- The set includes camshaft setting plate, tensioner lever, tensioner retaining pin, flywheel locking pin and pump remove & sprocket retainer
- Suitable for BMW, Land Rover and Opel engine
- Use to retain and support the sprocket and timing chains in correct position when the pump is removed



2480 1 / 5

MODEL: 1.7 2.5td / tds (Chain)  
318tds, E36(94-00)  
325td / tds, E36(91-99)  
525td / tds, E34(90-00)  
725tds, E38(95-02)

ENGINE CODE: 1.7 2.5td / tds (Chain)  
M41 / M51



#### CONTENTS :

- A - camshaft setting plate
- B - tensioner lever
- C - flywheel locking pin
- D - tensioner retaining pin
- E - pump remove & sprocket retainer (2 part)





# BMW/ MINI

## Petrol Engine Setting & Locking Set – BMW/PSA

### 9AT1010E

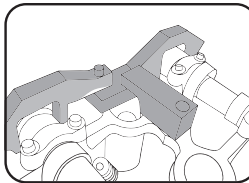
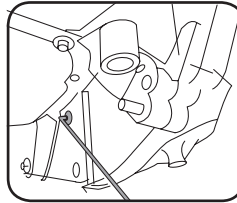
- The set includes camshaft setting tool, crankshaft locking pin & chain tensioner tool
- Suitable for BMW Mini and PSA Peugeot Citroën 1.4/1.6 16v valvetronic direct injection engines
- Use to lock and adjust engine timing



BMW Mini Cooper N12/N14 2384 / 1 / 5

MODEL: Clubman(07-14)  
Countryman(14-16)  
Paceman(14-16)  
Roadster(12-12)

ENGINE CODE: N12 1.4/1.6(Valvetronic)  
B14, B14AB, B16A  
N14 1.6(Direct Injection)  
B16A, B16CD/TD, B16TD, B16CD



#### CONTENTS :

- A – camshaft setting tool (inlet)
- B – camshaft setting tool (exhaust)
- C – camshaft setting tool
- D – camshaft setting clamp
- E – crankshaft locking pin
- F – chain tensioner tool
- G – M10 screw\*4

# BMW/ MINI

## Petrol Engine Timing Set

### 9AT1108E

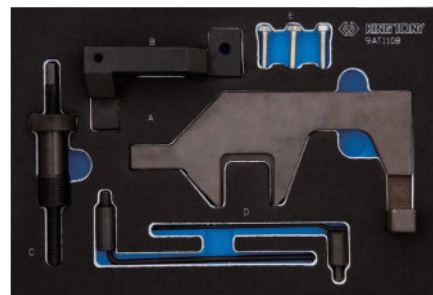
- Use for BMW & Mini 1.6 litre chain drive petrol engine
- Includes the cam & crankshaft locking tools and chain pre-tension setting tools for TDC position
- Suitable for BMW (N13) & Mini (N18) engines



2527 / 1 / 10

MODEL: **BMW 1 Series**  
114i F20(2012-15), 116i F20 (2012-15),  
118i F20 (2011-15)  
**BMW 3 Series**  
316i F30 (2012-15)  
**MINI**  
Cooper S (R56/57) (2010-15)  
Coupe Cooper S (R58) (2012-15)  
Roadster (R59) (2012-15)  
Countryman (R60) (2012-16)  
Paceman (R61) (2013-16)  
Clubman (R55) (2011-14)

ENGINE CODE: **N13**  
B16A  
**N18**  
B16/M0, B16A, B16A/M0, B16A/MO, B16C,  
B16C/TO, B16M0



#### CONTENTS :

- A – camshaft locking tool
- B – camshaft locking tool
- C – chain tensioner tool
- D – crankshaft locking pin



## Diesel Engine Timing Locking Set



### 9AT2107E

- The set includes camshaft alignment tool, flywheel locking tool, crankshaft pulley turning tool, and also high pressure pump sprocket removal tool
- Suitable for BMW N47 / N47S / N57 2.0 and 3.0 twin camshaft diesel chain drive engine
- Use to set & lock the camshaft and crankshaft when adjusting valve timing on engine correctly



1730 1 / 10

**MODEL:**

**1 Series**  
116d/118d/120d/123d  
E81/82/87/88 (07-12)

**3 Series**  
316d/318d/320d/325d/330d/330xd  
E90/91/92/93 (07-12)

**5 Series**  
520d E60/61 (07-10)  
525d/530d/535d F10/11 (10-12)  
530d GT/535d GT F07 (09-12)

**7 Series**  
730d/730Ld/740d/740d xDrive  
F01/02/04 (08-12)

**X Series**  
X1 sDrive 18d/20d E84 (09-12)  
X1 xDrive 18d/20d/23d E84 (09-12)  
X3 20d E83 (07-10)  
X3 xDrive 1.8d/30d E83 (08-12)  
X5 30d/xDrive 40d E70 (10-12)  
X6 xDrive 30d/40d E71/72 (10-12)

**ENGINE CODE:**

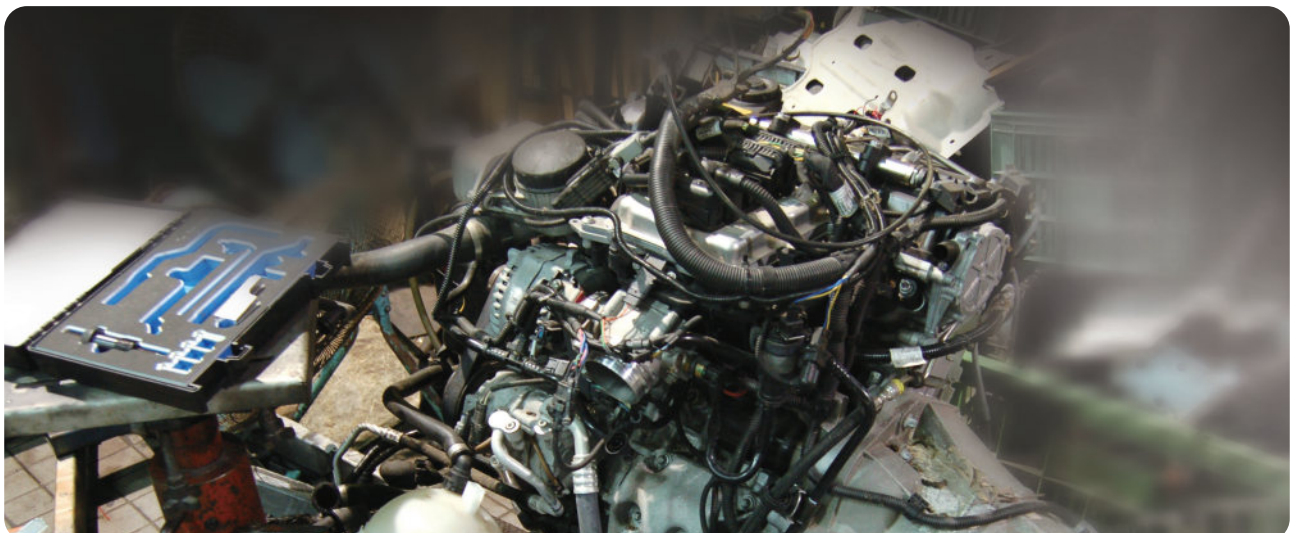
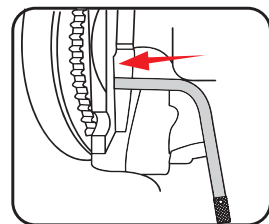
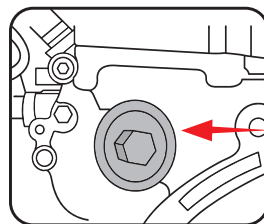
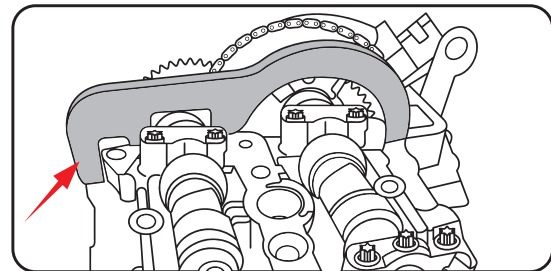
**N47 / N47S**  
D20A  
D20B  
D20T0  
D20O0  
D20U0

**N57**  
D30U0  
D30O0  
D30O1  
D30T0



#### CONTENTS :

- A – camshaft Alignment Tool
- B – flywheel Locking Tool
- C – crankshaft Turning Tool
- D/F – high pressure pump sprocket removal tool
- E – tensioner Locking Pin





## Petrol Engine Timing Set



### 9AT1706E

- Use for BMW 2.0 litre chain drive petrol engine
- Includes the VANOS setting tools, camshaft locking tools and chain pre-tension setting tools for TDC position
- Suitable for BMW N20 & N26 engines

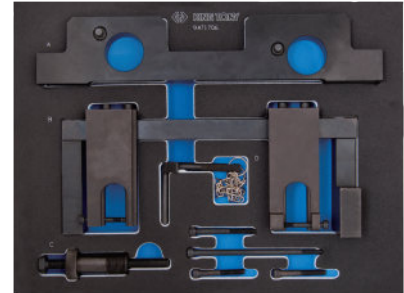
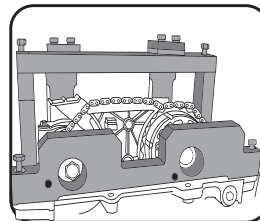
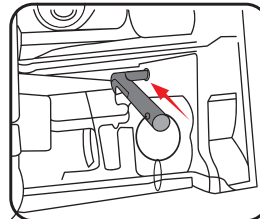


4287 1 / 3

**BMW 1 Series**  
125i F20/21(2012-14)  
**BMW 3 Series**  
320i/xDrive F30/31 (2012-14),  
328i F30/31 (2012-14),  
328i/xDrive F30/31 (2012-14)  
**BMW 5 Series**  
520i F10/11 (2010-14), 528i F10/11 (2013-14),  
528i/xDrive F10/11 (2011-14)  
**X1**  
sDrive18i/20i E84 (2011-14),  
xDrive20i/28i E84 (2011-14)  
**X3**  
xDrive20i/28i F25 (2011-14)  
**Z4**  
sDrive18i E89 (2013-14),  
sDrive20i/28i E89 (2011-14)

MODEL:

ENGINE CODE: N20 B20A, N20 B20B/UO, N20 B20OO, N26 B20



#### CONTENTS :

- A - VANOS alignments plate
- B - camshaft locking tool
- C - chain tensioner tool
- D - flywheel locking pin

# MERCEDES-BENZ

## Petrol Engine Timing Set



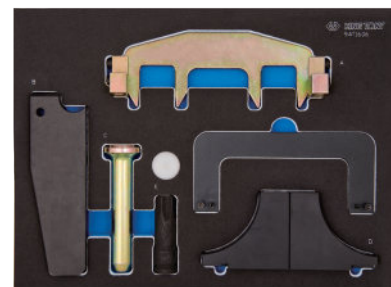
### 9AT1606E

- Use for 1.8 litre M271 chain drive petrol engine
- Includes chain tensioner adjust tools and cam pulley bit socket to hold the chain in place
- Suitable for Mercedes- Benz M271



3452 1 / 3

MODEL	ENGINE CODE
C-class 176 (2002-15)	271.820, 271.860, 271.861
C-class Coupe (2011-15)	271.921, 271.940, 271.941
CLC (2008-12)	271.942, 271.943, 271.944
CLK (2002-09)	271.946, 271.948, 271.950
E-class (2002-13)	271.952, 271.954, 271.955
E-class Coupe / Cabriolet (2004-13)	271.956, 271.957, 271.958
SLK (2004-15)	
Sprinter (2007-15)	271.951



#### CONTENTS :

- A - camshaft locking tool
- B - cam chain tensioner rail wedge tool
- C - cam chain tensioner drift
- D - cam chain retaining bridge
- E - camshaft pulley bit socket (T100)



# BMW

## Petrol Engine VANOS Engagement Wrench

### 9AT1-A02

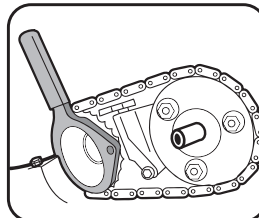
- For BMW twin camshaft engines with single VANOS unit mounted on inlet camshaft

 298  /  12 / 48



#### MODEL:

318is, E36 (92-99), 318ti Compact E36 (94-01)  
320i, E36 / E46 (92-07), 323i, E36 / E46 (95-01)  
325i, E36 / E46 (92-07), 328i, E36 / E46 (95-01)  
330i, E46 (00-07), 520i, E39 / E60 (96-05)  
523i, E39 (96-00), 525i, E39 / E60 (00-05)  
528i, E39 (96-00), 530i, E39 / E60 (00-05)  
728i, E38 (94-02), 730i, E65 (02-05)  
Z3, (E36) 1.9-3.0 (96-03)  
Z4, (E85) 2.2-3.0 (03-06)  
X3, (E83) 3.0 (03-06), X5, (E53) 3.0 (99-07)



#### ENGINE CODE:

M50 / M52 Single VANOS (VVT) variants  
20 6S 2(Later), 20 6S 3, 25 6S 2(Later)  
25 6S 3, 28 6S 1

# BMW

## Diesel Engine Injection Pump Puller

### 9AT2-D01

- Specifically designed for holding the sprocket / chain in place when disassembling the VP44 injection pump and high pressure pump
- Common rail fits BMW engines

 528  /  6 / 36

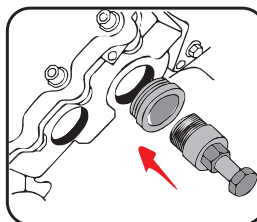


#### MODEL:

318d / Compact(E46)  
320d / td Compact(E46)  
330d(E46), 535d(E60 / E61), 730d(E38)  
X5 3.0d(E53), 530d(E39 / E60 / E61)  
525d(E39 / E60 / E61)

#### ENGINE CODE:

M47 / M57  
1 Series E87, 3 Series E46 / E90  
5 Series E39 / E60, 6 Series E63  
7 Series E38 / E65, X3 E83 and E53 / E70



# CHEVROLET

## Petrol Engine Tension Adjustment Wrench Set (Via Water Pump)

### 9AT1202

- The set includes 41mm and 46mm tension adjust wrench
- Suitable for Vauxhall / Opel and Chevrolet engines

 695  /  6 / 24

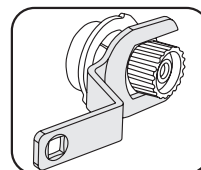


#### MODEL:

9AT1202-B(41mm)  
Kalos (04-08), Aveo (06-08),  
Espero / Aranos (95-97), Nexia (95-97)  
Lanos (97-03), Nubira / Lacetti (97-09)  
Cruze (2009)

#### ENGINE CODE:

1.4 A13DM A14MS F14S3  
1.4 16v, F14D3,  
1.5 G15MF  
1.5 16v, A15DM A15SMS A15MF  
1.6 16v, A16DM A16DMS F16D3 LXT



#### CONTENTS :

- A - tension adjustment wrench (46mm)
- B - tension adjustment wrench (41mm)





## Petrol Engine Timing Alignment Set



### 9AT1112E

- The set includes camshaft locking tool, VANOS alignment plate, flywheel locking pin
- Suitable for BMW 2.5/3.0 liters chain drive six cylinder, twin cams 16v petrol engines
- Use to lock camshaft in TDC position when setting or adjusting engines timing

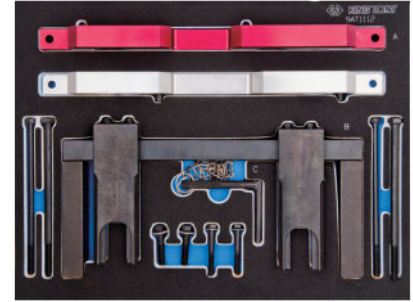
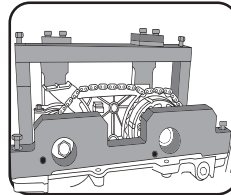
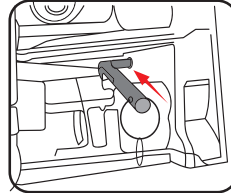


5900 1 / 3

MODEL:

128i. E82 (07-08)  
 130i. E81/87 (05-08)  
 135iS. E82 (07-08)  
 323i. E90/91/92/93 (04-08)  
 325i/xi. E90/91/92/93 (04-08)  
 328i/xi. E90/91/92/93 (04-08)  
 330i/xi. E90/91/92/93 (04-08)  
 335i/xi. E90/91/92/93 (05-08)  
 523i/Li. E60/61 (04-08)  
 525i/Li/xi. E60/61 (04-08)  
 528i/xi. E60/61 (06-08)  
 530i/Li/xi. E60/61 (05-08)  
 535i/xi. E60/61 (06-08)  
 630i. E63/64 (04-08)  
 730i/Li. E65/66 (04-08)  
 X3 2.5/3.0 E83 (06-08)  
 X5 3.0 E70 (06-08)  
 Z4 2.5/3.0 E85/86 (05-08)

ENGINE CODE: N51 / N52 / N52K (Valvetronic)  
 N53 / N54 (Direct Injection)



CONTENTS :

- A - VANOS alignment plate (Red for N53/N54, Silver for N51/N52/N52K)
- B - camshaft locking tool
- C - flywheel locking pin

# PSA PEUGEOT CITROËN

## Petrol Engine Setting & Locking Set – BMW/PSA

### 9AT1010E

- The set includes camshaft setting tool, crankshaft locking pin & chain tensioner tool
- Suitable for BMW Mini and PSA Peugeot Citroën 1.4/1.6 16v valvetronic direct injection engines
- Use to lock and adjust engine timing



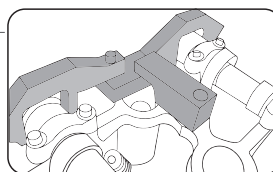
2384 1 / 5

MODEL:

**Citroen**  
 C4(08-11)  
 C4 Picasso(08-13)  
**Peugeot**  
 207(06-11)  
 207CC(07-14)  
 308(07-14)  
 3008(09-12)  
 5008(09-11)

ENGINE CODE:

**Citroen**  
 8FR(EP3)  
 5FS(EP6)  
**Peugeot**  
 EP3(8FS)  
 EP6(5FW)  
 EP6DT(5FX)  
 8FS(EP3)  
 EP6DTS(5FY)



CONTENTS :

- A – camshaft setting tool (inlet)
- B – camshaft setting tool (exhaust)
- C – camshaft setting tool
- D – camshaft setting clamp
- E – crankshaft locking pin
- F – chain tensioner tool
- G – M10 screw\*4



# PSA PEUGEOT CITROËN

## Petrol Engine Timing Set



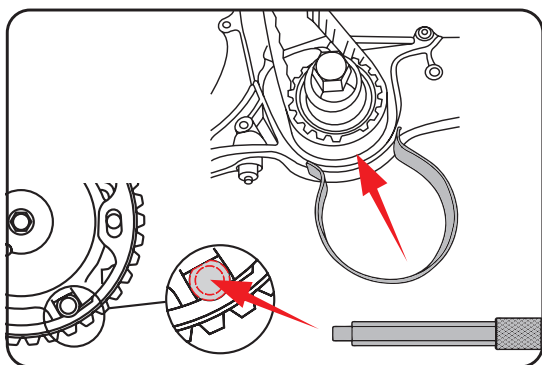
9AT1021E

- The set includes special flywheel tools and cam/ crankshaft timing pin
- Use to replace timing belt engines of:  
1.0 / 1.1 / 1.4 / 1.6 / 1.6VTS / 1.8 16v / 2.0 / 2.0 16V / 2.2
- Include PSA "EW coded" twin-cam 16v engine and HPI versions
- Suitable for PSA Peugeot / Citroen engines

2164 1 / 10



21 PC.



### CONTENTS :

- A – timing belt retaining tool
- B – tensioner adjusting tool
- C – flywheel locking tool
- D – flywheel holding tool
- E – flywheel plate locking tool
- F – flywheel locking tool
- G – flywheel locking tool
- H – tensioner locking tool
- I – tensioner locking tool
- J – timing pin

# PSA PEUGEOT CITROËN

## Diesel Engine Setting Tool (Belt Drive)

9AT2-A01

- The set includes flywheel locking pin, TDC timing pin and tensioner retaining tool
- Use for holding engine timing position when replacing timing belt
- Suitable for Fiat, Iveco, Renault, Citroen / Peugeot, Vauxhall / Opel



### CONTENTS :

- A – TDC timing pin
- B – flywheel locking pin (2pc)
- C – tensioner retaining tool

112 12 / 120

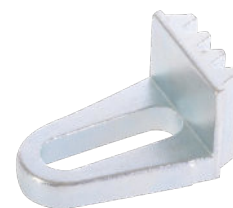
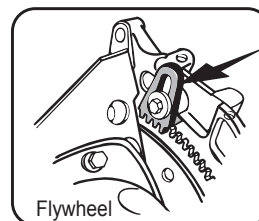
MODEL: 2.8D/Tdl/Hdl  
Relay / Jumper (01-06)  
Boxer (00-06)

ENGINE: 8140.43  
8140.43S  
8140.63

## Petrol & Diesel Engine Flywheel Holding & Locking Tool

9AT3-E02

- Used to remove the crankshaft pulley when replacing the timing belt
- The pulley retaining bolt is fitted with high torque and the flywheel must be securely locked during installation / removal
- Jamming tools into the teeth of the flywheel will cause serious damage to both teeth and housing



64 25 / 100

MODEL: Petrol 1.0 to 2.0 TU / XU (Belt)  
XU 1.6 to 2.0  
Diesel 1.50 to 2 .50 TUD / XUD (Belt)  
XU1.6 to 2.0  
XD1.8D to 1.9D





# FIAT

## Petrol Engine Setting & Locking Set



### 9AT1002E

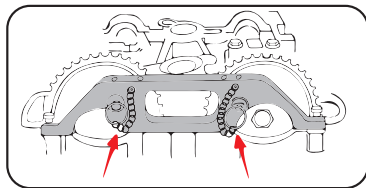
- The set includes camshaft setting tool and tensioner retaining pin
- Suitable for Vauxhall / Opel & Fiat engines
- Use to lock the camshafts on the correct timing position



1510 1 / 10

MODEL: Petrol 2.2 16v. Twin Cams(Chain)  
Croma (05-09)

ENGINE CODE: Petrol 2.2 16v. Twin Cams(Chain)  
194A1.000



- CONTENTS :
- A - camshaft setting tool
  - B - tensioner retaining pin

# FIAT

## Diesel Engine Setting & Locking Tool Set



### 9AT2006E

- The set includes flywheel holding tool, crankshaft locking tool and camshaft setting tools
- Suitable for Lancia, Alfa Romeo and Fiat engines
- Use to set and lock engines timing



1360 1 / 10

MODEL: Diesel  
1.6JTD / 1.9JTD / 2.0JTD / 2.4JTD Multijet(Belt)  
Punto (99-06), Grande Punto (05-09)  
Idea (04-08), Brava/Bravo (98-02)  
Linea (07-09), New Bravo (07-09)  
Marea/Weekend (99-03), Stilo (01-06)  
Croma (05-09), Multipla (99-07)  
Doblo/Cargo (02-09), Palio Weekend (02-06)  
Sedici (06-09), Strada Pick-Up (03-06)

ENGINE CODE:

1.6JTD 16v.  
198A2.000, 198A3.000, 198A6.000  
350A2.000

1.9JTD 8v.  
182B4.000, 182B9.000, 186A6.000  
186A8.000, 186A9.000, 188A2.000  
188A7.000, 188B2.000, 192A1.000  
192A3.000, 192A8.000

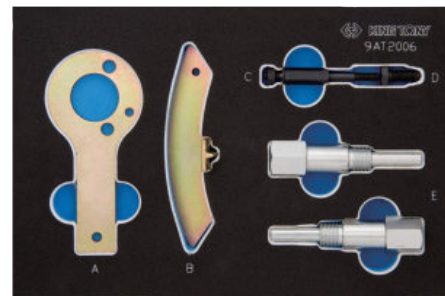
1.9JTD 8v.  
192A9.000, 192B4.000, 192B5.000  
199A5.000, 939A1.000, 939A5.000  
939A7.000, 223A7.000

1.9JTD 16v.  
192A5.000, 937A5.000, 939A2.000  
939A8.000

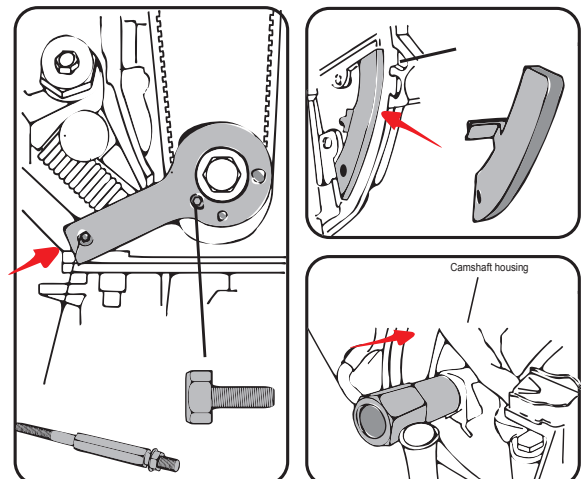
2.0JTD 16v.  
198A5.000

2.4JTD 10v.  
185A6.000

2.4JTD 20v.  
939A3.000



- CONTENTS :
- A&C&D - crankshaft locking tool
  - B - flywheel holding tool (crank pulley removal)
  - E - camshaft setting tool (pair)

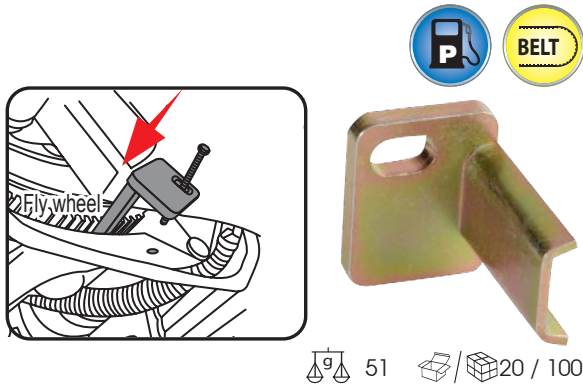


# FIAT

## Petrol Engine Flywheel Holding Tool

### 9AT1-E01

- Use to lock the flywheel while removing and replacing the timing belt
- Put it into the teeth of the flywheel to hold the crankshaft up, while releasing or tightening the bolt



51 20 / 100

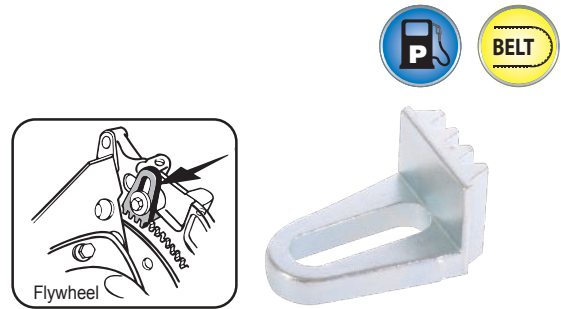
MODEL: Stilo (01-08), Brava / Bravo (95-02)  
Marea / Weekend (96-03), Multipla (99-09)  
Doblo / Cargo (02-06)

ENGINE CODE: 178B3.000, 182A4.000  
182A6.000, 182B6.000

## Petrol Engine Flywheel Holding & Locking Tool

### 9AT3-E02

- Used to remove the crankshaft pulley when replacing the timing belt
- The pulley retaining bolt is fitted with high torque and the flywheel must be securely locked during installation / removal
- Jamming tools into the teeth of the flywheel will cause serious damage to both teeth and housing



64 25 / 100

MODEL: Petrol 1.6 16v. Twin Cams (Belt)  
Stilo

## Diesel Engine Setting Tool (Belt Drive)

### 9AT2-A01

- The set includes flywheel locking pin, TDC timing pin and tensioner retaining tool
- Use for holding engine timing position when replacing timing belt
- Suitable for Fiat, Iveco, Renault, Citroen / Peugeot, Vauxhall / Opel



#### CONTENTS :

- A – TDC timing pin
- B – flywheel locking pin (2pc)
- C – tensioner retaining tool

112 12 / 120

MODEL: 2.5D / 2.5DT / 2.8D / 2.8JTD  
Croma (93-97)  
Ducato (87-06)  
Talento (87-02)

ENGINE CODE: 8140.21, 8140.27, 8140.47R  
8140.43, 8140.43S, 8140.63  
8144.67





# FORD

## EcoBoost 1.0 Timing Set



### 9AT1026E

- Engine Timing Tool Kit suitable for 1.0 petrol EcoBoost and 1.0 SCTi EcoBoost FORD engines.
- Contains tools vital for setting and locking the engine and for setting the position of the variable cam timing units.

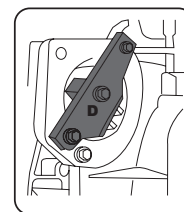
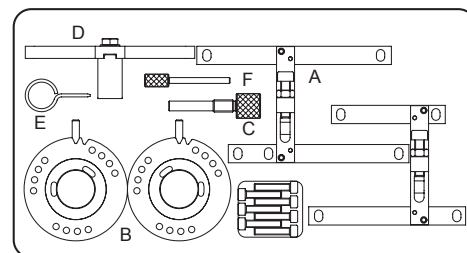
16  
PC.



4.4 kg / 1 / 4

**MODEL:** Fiesta (2013-2016), EcoSport (2013-2015), B-Max (2013-2016), C-Max (2012-2016), Transit Courier (2012-2016), Transit Connect (2013-2016), Focus (2012-2016), Grand Tourneo Connect (2013-2015), Grand C-Max (2012-2016), Mondeo (2015-2016), Tourneo Connect (2013-2015)

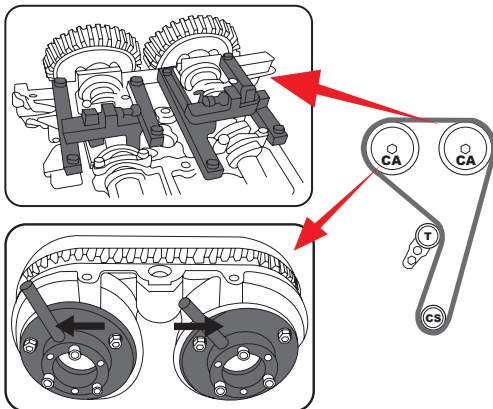
**ENGINE :** MICA, M1CB, M1DA, M1DD, M1JA, M1JC, M1JE, M1JH, M2DA, M2DB, M2DC, M2GA, P4JC, P4JD, SFCA, SFCB, SFDB, SFJA, SFJB, SFJC, SFJD, P4JA, P4JB, XMJA, XMJB, M1JA



#### CONTENTS:

- A - Camshaft Locking Tool Set
- B - Camshaft VVT Adjustment Tool Set
- C - Crankshaft Setting Pin
- D - Flywheel Locking Tool
- E - Tensioner Locking Pin
- F - Crankshaft Pulley Positioning Pin

- Remove the starter motor and fit component D in the starter aperture so that its tooth locks the flywheel



# FORD

## Petrol Engine Twin Camshaft & Diesel Engine Timing Tool Set



### 9AT1406E

- The set includes VCT setting plate, camshaft setting plate, crankshaft TDC location pin, tensioner locking pin and flywheel locking tools
- Suitable for 16v. Duratec petrol engine of FORD 1.6 Ti-VCT twin camshaft
- Use to adjust VCT timing on inlet and exhaust camshaft during timing belt replacement

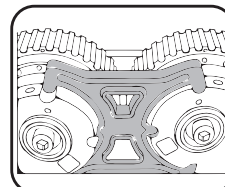
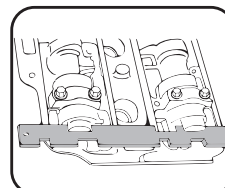


7  
PC.

1640 kg / 1 / 10

**MODEL:** Focus C-Max (03-08)  
Focus (04-08)  
Mondeo (07-08)

**ENGINE CODE:** HXDA



#### CONTENTS :

- A&E - flywheel locking tool
- B - camshaft setting plate
- C - crankshaft TDC location pin
- D - tensioner locking pin
- F - VCT setting plate
- G - crankshaft pulley alignment tool



# Diesel Engine Timing and Injection Pump Setting & Locking Set



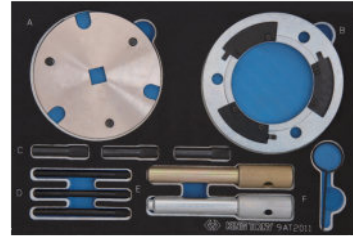
## 9AT2011E

- The set includes sprocket retaining plate, flywheel & tensioner locking pins
- Suitable for chain drive diesel engine of Ford
- Use to install/remove injection pump & set/lock engine timing



1473 1 / 10

MODEL:	Diesel 2.0 / 2.2 / 2.4 TDdi / TDci DURATORQ(CHAIN)
ENGINE CODE:	2.0Ddi ABFA, D3FA, F3FA 2.0 TDdi D5BA, D6BA 2.0 TDci FMBA, FMBB 2.2 TDci QJBA~D 2.4 Ddi D2FA, F4FA 2.4 TDci FXFA, H9FA, JXFA, PHFA



- CONTENTS :
- A – access Cover Removal Plate
  - B – sprocket Retaining Plate
  - C – location Pins (3 PC.)
  - D – locking Pins (3 PC.)
  - E – flywheel Locking Pins (2 PC.)
  - F – tensioner Locking Pin

## FORD

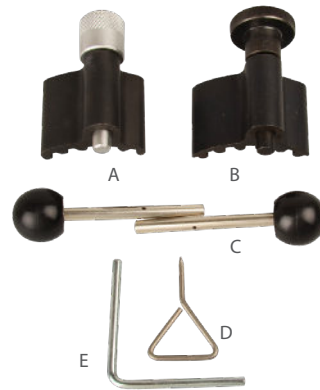
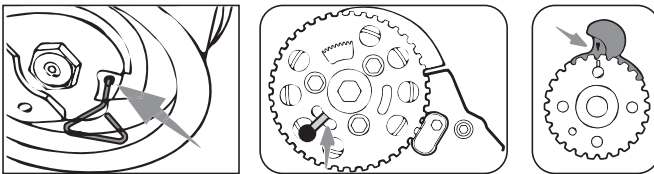
# Diesel Engine Setting/Locking Tool (Belt Drive)

## 9AT2-C01

- The set includes crankshaft (oval / round), camshaft and tensioner locking pins
- Suitable for most of general VAG 1.4 / 1.9 / 2.0 TDi PD DOHC engines
- Also for Ford Galaxy models engine

408 10 / 40

MODEL:	Galaxy 1.9
ENGINE CODE:	ASZ / ANU



- CONTENTS :
- A - Crankshaft Locking Tool (Silver / Oval)
  - B - Crankshaft Locking Tool (Black / Round)
  - C - Camshaft Locking Pins (2 pcs)
  - D - Tensioner Pulley Locking Pin
  - E - Auxiliary Belt Tensioner Locking Pin

# Petrol Engine Timing Set – Ford 2.0 Ecoboost



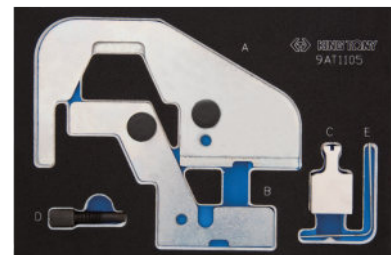
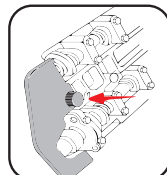
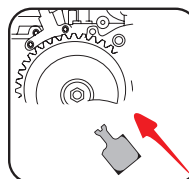
## 9AT1105E

- The set includes cam & crankshaft alignment tool and tensioner locking pin
- Suitable for Ford fitted with SCTi Ecoboost / Ti-VCT 2.0lt direct injection engines
- Camshaft tool use for vehicles manufactured **May 2011** and **after May 2011**



1745 1 / 10

MODEL:	Galaxy(2010-), Mondeo(2010-) S Max(2010-), Focus(2011-)
ENGINE CODE:	Galaxy 2.0 TNWA, TNWB, TPWA Mondeo 2.0 TNBA, TPBA S Max 2.0 TNWA, TNWB, TPWA Focus 2.0 MGDA, XQDA



- CONTENTS :
- A – camshaft alignment plate
  - B – camshaft alignment plate
  - C – crankshaft locking tool
  - D – crankshaft timing pin
  - E – tensioner locking pin





## Petrol & Diesel Engine Flywheel Holding Set

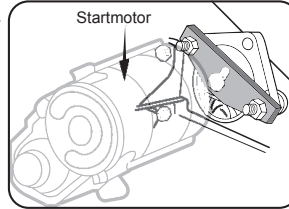
### 9AT3-E01

- Lock crankshaft in timed position by locating into flywheel
- Suitable for counter-holding crankshaft when releasing or tightening crankshaft pulley bolt



373 36 / 36

**MODEL:**  
 1.8 TDI / TDdi / TDCi Petrol Engines (Belt)  
 Fiesta / Courier, Tourneo Connect,  
 Focus C-Max, Mondeo, S-Max, Galaxy,  
 Transit Connect  
 2.0TDCi Diesel Engines (Belt)  
 Focus / C-Max, S-Max, Galaxy  
 1.6Ti-VCT Petrol Engines (Belt)  
 Focus, Mondeo, Focus C-Max



**ENGINE CODE:**  
 1.8 TDI / TDdi / TDCi Petrol Engines (Belt)  
 RTN, RTQ, RTP, BHDB, BHPA, C9DA, C9DB  
 C9DC, F9DA, F9DB, FFBA, FFDA, FFWA  
 HPCA, HPCB, P7PA, P9PA, QYBA, QYWA  
 R2PA, R3PA, RWPA, KKDA  
 2.0TDCi Diesel Engines (Belt)  
 AZWA, G6DA, G6DB, G6DC, QXWA  
 1.6Ti-VCT Petrol Engines (Belt)  
 HXDA

# IVECO

## Diesel Engine Setting Tool (Belt Drive)

### 9AT2-A01

- The set includes flywheel locking pin, TDC timing pin and tensioner retaining tool
- Use for holding engine timing position when replacing timing belt
- Suitable for Fiat, Iveco, Renault, Citroen/Peugeot, Vauxhall/Opel



**CONTENTS :**

- A – TDC timing pin
- B – flywheel locking pin (2pc)
- C – tensioner retaining tool



112 12 / 120

**MODEL:**  
 2.5D/2.8D  
 Daily (91-06)  
 Turbo Daily (94-00)

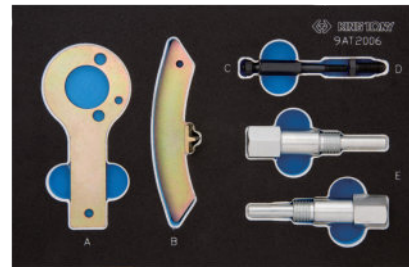
**ENGINE CODE:**  
 8140.07, 8140.27S, 8140.47  
 8140.47R, 8140.67F, 8140.97  
 8140.23, 8140.43C, 8140.43S

# LANCIA

## Diesel Engine Setting & Locking Set

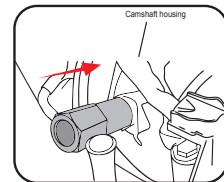
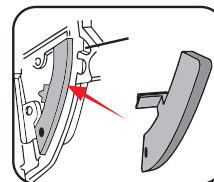
### 9AT2006E

- The set includes flywheel holding tool, crankshaft locking tool and camshaft setting tools
- Suitable for Lancia, Alfa Romeo and Fiat engine
- Use to set and lock engines timing



**CONTENTS :**

- A&C&D - crankshaft locking tool
- B - flywheel holding tool (crank pulley removal)
- E - camshaft setting tool (pair)



1360 1 / 10

**MODEL:**  
 2.0JTD / 2.2JTD (Belt)  
 Lybra (99-07)  
 Musa (04-09)  
 Kappa (98-02)  
 Thesis (02-07)

**ENGINE CODE:**  
 1.9JTD 8v.  
 323.02, 371.01, 188B2.000, 937A2.000  
 2.4JTD 10v.  
 838A8.000, 839A5.000, 839A6.000  
 2.4JTD 20v.  
 841C.000, 841D.000, 841G.000, 841H.000



# LANCIA

## Petrol Engine Flywheel Holding Tool

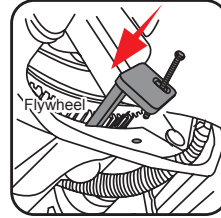
### 9AT1-E01

- Use to lock the flywheel while removing and replacing the timing belt
- Put it into the teeth of the flywheel to hold the crankshaft up, while releasing or tightening the bolt

 51  /  20 / 100

MODEL: Delta (96-99)  
Lybra (99-06)

ENGINE CODE: 182A4.000  
182A6.000



## Diesel Engine 2.5TDS Timing Set

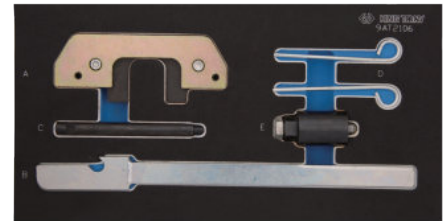
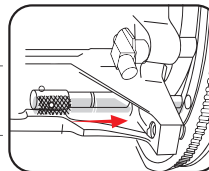
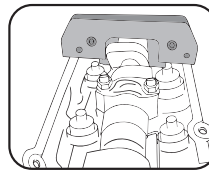
### 9AT2106E

- The set includes camshaft setting plate, tensioner lever, tensioner retaining pin, flywheel locking pin and pump remove & sprocket retainer
- Suitable for BMW, Land Rover and Opel engines
- Use to retain and support the sprocket and timing chains in position when the pump is removed

 2480  /  1 / 5

MODEL: 2.5D Turbo (Chain)  
Range Rover (94-02)

ENGINE CODE: 256T M51



#### CONTENTS :

- A – camshaft setting plate
- B – tensioner lever
- C – flywheel locking pin
- D – tensioner retaining pin
- E – pump remove & sprocket retainer (2 part)

# LAND ROVER

## Diesel Injection Pump Puller

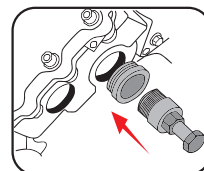
### 9AT2-D01

- Specifically designed for holding the sprocket / chain in place when disassembling the VP44 injection pump and high pressure pump
- Common rail fits BMW engines

 528  /  6 / 36

MODEL: Freelander (00-06)  
Td4 (2.0d)  
Range Rover (02-06)  
Td6 (3.0d)

ENGINE CODE: 204D3 / Td4  
(2.0 M47:BMW)  
306D1 / Td6  
(3.0 M57 : BMW)





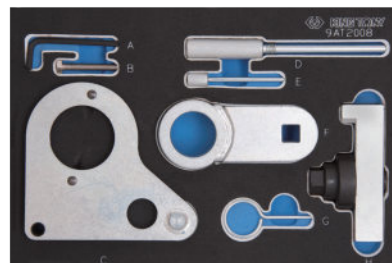
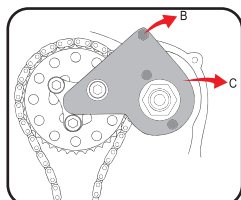
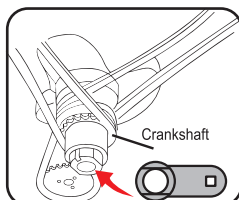
# RENAULT

## Diesel Engine Setting & Locking Set



9AT2008E

- The set includes auxiliary belt tensioner locking pin, camshaft setting tools, crankshaft pulley holding tool, chain tensioner locking pin and crankshaft locking pin
- Suitable for 2.0 dCi chain drive engines of Renault, Nissan and Vauxhall / Opel



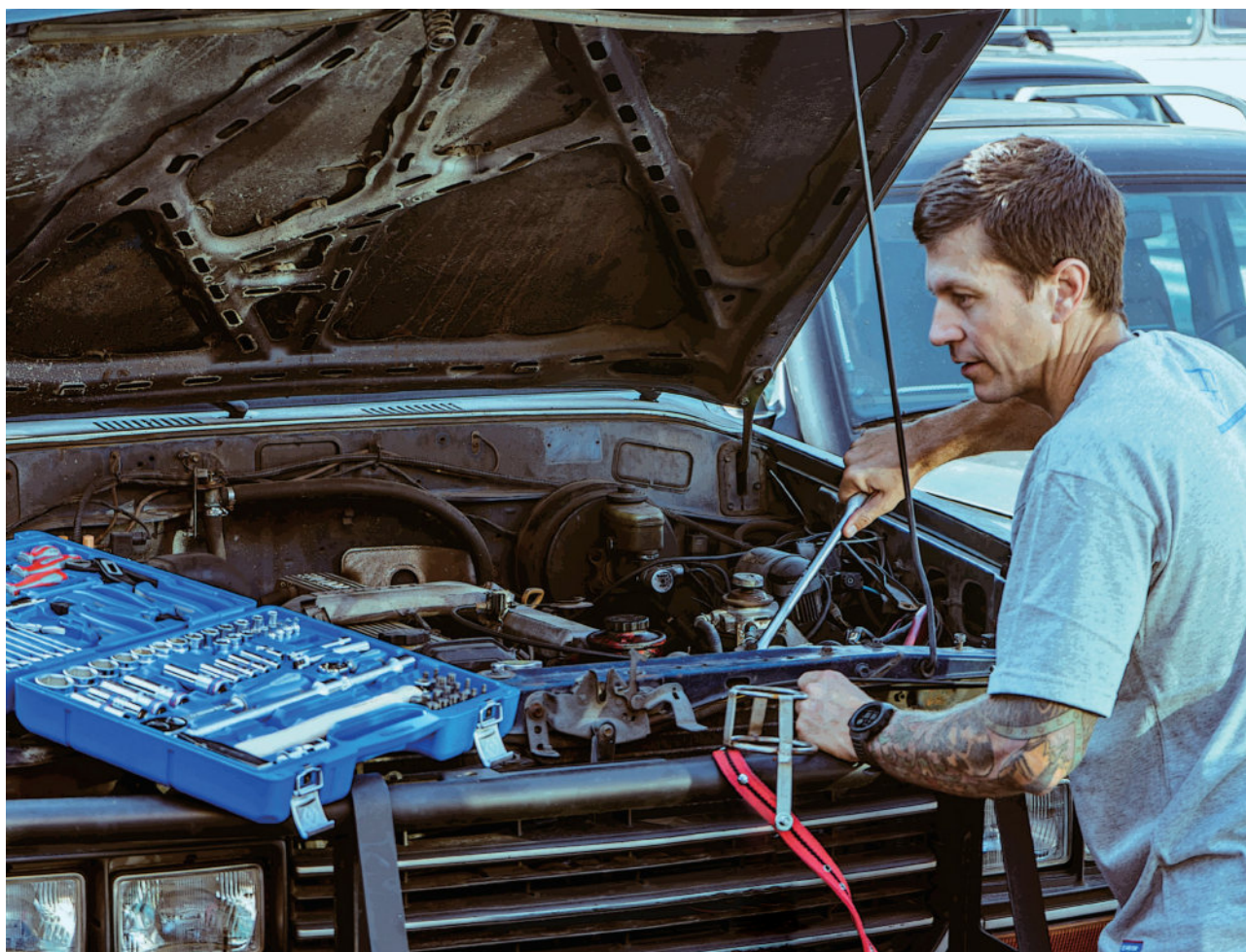
### CONTENTS :

- A&H - camshaft gear alignment tool
- B&C - camshaft setting plate
- D - crankshaft locking pin
- E - auxiliary belt tensioner locking pin
- F - crankshaft pulley holding tool
- G - chain tensioner locking pin

2376 1 / 5

MODEL: Megane II (07-09)  
Scenic / Grand Scenic (08-09)  
Laguna II (01-05)  
Vel Satis (05-09)  
Espace / Grand Espace (08-09)  
Koleos (08-09)  
Trafi c (07-09)

ENGINE CODE: 2.0 dCi M9R  
700, 721, 722, 724, 740, 740, 742, 746, 760  
761, 780, 802, 803, 805, 830, 832, 833

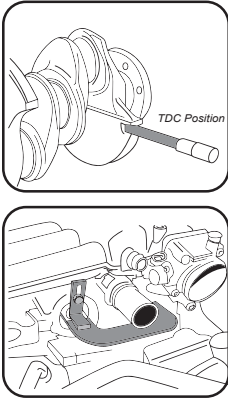


# RENAULT

## Petrol Engine Timing Locking Set-2.0 16V IDE - F5R

### 9AT1-A03

- The set includes crankshaft timing pin and camshaft setting plate, to aid timing belt replacement
- Suitable for Renault 2.0 IDE twin cam petrol engines found in Laguna and Megane vehicles



511 10 / 30

MODEL: Megane (99-03)  
Laguna II (01-05)

ENGINE CODE: F5R700, 701, 740

## Diesel Engine Setting Tool (Belt Drive)

### 9AT2-A01

- The set includes flywheel locking pin, TDC timing pin and tensioner retaining tool
- Use for holding engine timing position when replacing timing belt
- Suitable for Fiat, Iveco, Renault, Citroen / Peugeot, Vauxhall / Opel



#### CONTENTS :

- A - TDC timing pin
- B - flywheel locking pin (2pc)
- C - tensioner retaining tool

112 12 / 120

MODEL: 2.5D / 2.5D Turbo / 2.8dTi / 2.8dCi  
Trafic (98-00)  
Master (98-07)

ENGINE CODE: S8U  
720, 722, 730, 731, 742, 748  
750, 752, 770, 772, 780, 782  
S9U  
700, 702, 704, 714, 740  
S9W  
206, 208, 212, 700, 702

## Petrol & Diesel Engine Timing Set(dCi Engines)

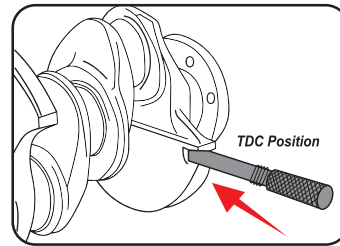
### 9AT3-A03

- The set includes camshaft / crankshaft locking pin and TDC timing pin
- Used for timing belt replacement
- Suitable for Renault 1.5 and 1.9 dCi diesel and petrol engine



#### CONTENTS :

- A - crankshaft Locking Pin
- B - TDC Timing Pin
- C - camshaft/Crankshaft Locking Pin



RENAULT (Belt)

220 10 / 100

- Diesel**  
Clio 1.5 dCi (01-08)  
Clio 1.9 DTi (99-03)  
Espace 1.9 TDi (97-02)  
Kangoo 1.5 dCi (04-08)  
Kangoo 1.9 DTi (99-03)  
Laguna 1.9 DTi (97-03)  
Megane II 1.5 dCi (02-05)
- MODEL: Megane 1.9 D / TD / TDi (95-03)  
Scenic II 1.5 dCi (02-05)  
Scenic 1.9 TD (95-99)
- Petrol**  
Clio 1.8 (92-01)  
Espace 2.0 (92-01)  
Laguna 1.8 (92-01)  
Megane, 2.0 (96-99)  
R19 1.8 (92-01)  
F3R Scenic 2.0 (96-99)

ENGINE CODE: **Diesel**  
K9K  
F8Q  
F9Q  
**Petrol**  
F3P  
F3R



# RENAULT

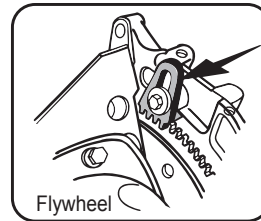
## Petrol & Diesel Engine Flywheel Holding & Locking Tool

### 9AT3-E02

- Used to remove the crankshaft pulley when replacing the timing belt
- The pulley retaining bolt is fitted with high torque and the flywheel must be securely locked during installation / removal
- Jamming tools into the teeth of the flywheel will cause serious damage to both teeth and housing
- Suitable for petrol and diesel engine

64 25 / 100

MODEL: **Petrol 1.2 to 2.2 (Belt)**  
F3R, F7R, F7P, F3P, E7J  
F8M and F8Q (early)  
**Diesel 1.50 to 2.50 TUD / XUD (Belt)**  
F3R, F7R, F7P, F3P, E7J, F8M and F8Q (early)

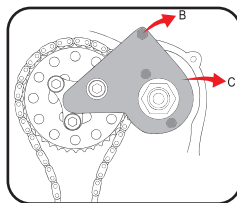
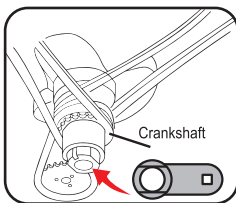


# NISSAN

## Diesel Engine Setting & Locking Tool Set

### 9AT2008E

- The set includes auxiliary belt tensioner locking pin, camshaft setting tools, crankshaft pulley holding tool, chain tensioner locking pin and crankshaft locking pin
- Suitable for 2.0 dCi chain drive engines of Renault, Nissan and Vauxhall / Opel



2376 1 / 5

MODEL: Primastar (08-09)  
Qashqai (08-09)  
X-Trail (07-08)

ENGINE CODE: M9R  
780, 830, 832, 833



#### CONTENTS :

- A&H - camshaft gear alignment tool
- B&C - camshaft setting plate
- D - crankshaft locking pin
- E - auxiliary belt tensioner locking pin
- F - crankshaft pulley holding tool
- G - chain tensioner locking pin



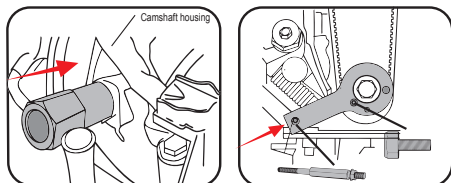
# SAAB

## Diesel Engine Setting & locking Set



### 9AT2005E

- The set includes crankshaft locking tool, camshaft setting tools(pair) and a tensioner locking pin
- Suitable for Saab, Vauxhall / Opel engine
- Use to set and lock engines timing



1295 1 / 10

MODEL: Diesel 2.2D T1D  
9-3 (98-04), 9-5 (02-06)

ENGINE CODE: Diesel 2.2D T1D  
Z19DT / Z19DTH



- CONTENTS :
- A&D - crankshaft locking tools
  - B - camshaft setting tool (pair)
  - C - tensioner locking pin

# SUZUKI

## Diesel Engine Setting & Locking Set

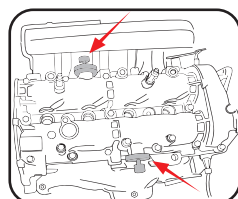
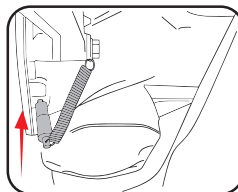
### 9AT2004E

- The set includes flywheel locking pin, camshaft setting tools, tensioner locking pin
- Use to retain timing position only. DO NOT use them to hold camshafts in position while releasing or tightening the sprocket bolts

1101 1 / 10

MODEL: Diesel 1.3 DDIS (Belt)  
Swift (04-09)  
Ignis (03-09)  
Wagon R+ (03-08)

ENGINE CODE: Diesel 1.3 DDIS (Belt)  
Z13DT



- CONTENTS :
- A- camshaft setting tool set (pair)
  - B- flywheel locking pin
  - C- tensioner retaining pin

# VOLKSWAGEN GROUP AUDI/SKODA/VW/SEAT

## Petrol Engine Twin Camshaft Setting & Locking Set - VAG 1.4 / 1.6 FSi (Chain)

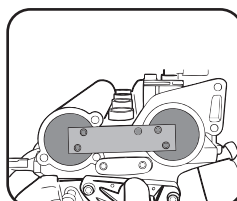
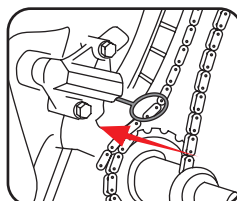
### 9AT1103E

- The set includes camshaft setting plate, TDC position tool (with DTI) and tensioner locking pin
- 9AT1103 'B' TDC positioning tool has to use with 9AT3-F01(not included in this set)

1456 1 / 10

MODEL: Audi  
A3 (03-07)  
Volkswagen  
Polo (02-08), Golf V (03-08), Golf Plus (05-08)  
Jetta (06-08), Passat (05-08), Touran (03-07)  
Skoda  
Octavia II (04-08)

ENGINE CODE: 1.4 FSI  
AXU, BKG, BLN  
1.6 FSI  
BAG, BLF, BLP, BTS



- CONTENTS :
- A - camshaft setting plate
  - B - TDC position tool (with DTI)
  - C - tensioner locking pin





# VOLKSWAGEN GROUP AUDI/SKODA/VW/SEAT

## Diesel Engine Setting & Locking Set - Pumpe Düse

9AT2012E

- The set includes crankshaft & camshaft locking tool, tensioner setting & adjusting tools
- Suitable for belt drive Pumpe Düse diesel engines of VW group vehicles and Ford (Galaxy)
- Use to set & lock engine to make sure timing is in the correct position during timing belt replacement
- Suggestion :  
Check the engine is hydraulic or mechanical tensioner first. (Some of 1.2 1.4 1.9 engines were changed from hydraulic to mechanical.)

1845 1 / 10



12  
PC.

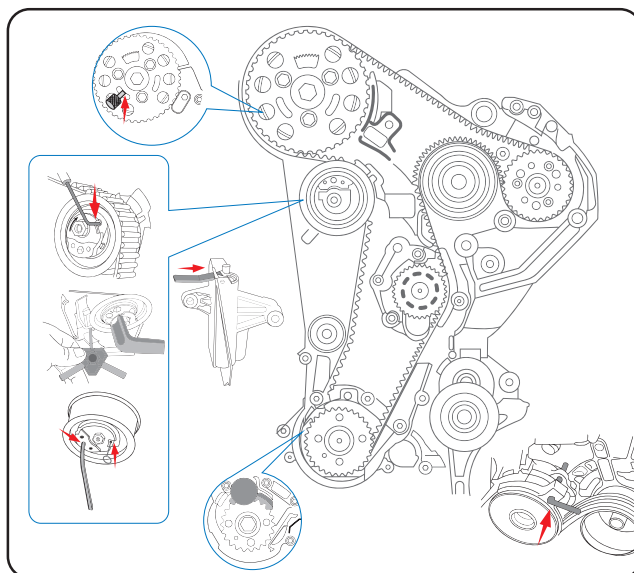


### CONTENTS :

- A - crankshaft locking tool (silver / oval)
- B - crankshaft locking tool (black / round)
- C - camshaft locking pins (2 pcs)
- D - tensioner adjuster (1.2, 1.4 & 1.9)
- E - tensioner adjuster (later 1.9 & 2.0)
- F - tensioner adjust tool (hexagon)
- G - tensioner locking tool
- H - tensioner locking pin (mechanical)
- I - tensioner locking tool (hydraulic)
- J - tensioner setting tool (hydraulic)
- K - auxiliary belt tensioner locking pin

MODEL:	<p><b>Audi</b> A2 (01-06), A3 (01-09), A4 (99-09) A5 (08-09), A6 (98-08), TT (08-09) Q5 (08-09)</p> <p><b>Skoda</b> Fabia (00-07), Fabia II (07-09) Octavia (00-09), Octavia II (04-09) Superb (02-08), Roomster (07-09)</p> <p><b>Volkswagen</b> Lupo(99-05), Polo(99-07), Fox(05-08) Jetta (05-09), Passat (98-09), Beetle (00-09) Touran (03-09), Sharan (99-09) Caddy (03-09), Golf /Bora(98-08) Golf Plus (05-09), Transporter (03-09)</p> <p><b>Seat</b> Arosa (99-05), Altea XL(04-09) Leon (00-09), Toledo (04-09) Alhambra (99-09), Ibiza / Cordoba)(02-09)</p> <p><b>Ford</b> Galaxy (99-06)</p>
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ENGINE CODE:	<p><b>1.2TDI PD</b> ANZ, AYZ</p> <p><b>1.4TDI PD</b> AMF, ATL, BAY, BHC, BMS, BNM, BNV, BWB</p> <p><b>1.9TDI PD</b> AJM, AMG, ANU, ARL, ASZ, ATD, ATJ, AUJ, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, BEW, BJB, BKC, BKE, BLS, BLT, BMT, BPX, BRB, BRM, BRR,BRS, BRU, BSU, BSW, BTB, BUK, BVK, BXE, BXF</p> <p><b>2.0TDI PD</b> AZV, BDJ, BDK, BGW, BHW, BKD, BKP, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC, BRE, BRF, BRT, BUZ, BVE, BVF, BVG, BVH, BWV</p> <p><b>1.9TDI PD (Ford)</b> ANZ, ASZ, AUJ</p>
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# VW/AUDI

## VW Audi TIMING TOOL Set VAG 1.6/2.0 TDI CR



9AT2010E

- This set designs to fit the newest common rail diesel engine which is significantly different from the older PD engine.
- The CR engines combines belt and the gear drive by using a toothed belt to transfer the drive from the crankshaft to one of the cam shafts, then using gears to transfer the drive from one cam to the other.



2.7 1/4

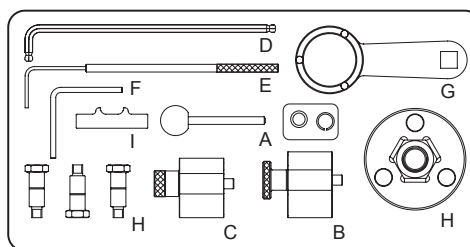
MODEL: Audi A3, A4, A5, A6, Q5  
Volkswagen Golf, Tiguan, Passat, Eos

1.2 TDI  
ANY, AYZ

1.4 TDI  
AMF, ATL, BAY, BHC, BNM, BNV

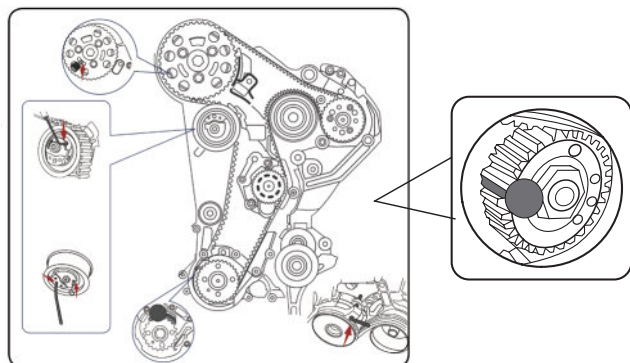
1.9 TDI  
AJM, AMG, ANJ, ARL, ARX, ASZ, ATD, ATJ,  
AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR,  
BEW, BJB, BKC, BKE, BLS, BLT, BMT, BPX,  
BRB, BRM, BRU, BSU, BSV, BSW, BTB, BVK,  
BXE, BXF

ENGINE : 2.0 TDI  
AZV, BKD, BDJ, BDK, BGW, BHW, BKP, BLB,  
BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC,  
BRE, BRF, BRT, BSS, BUY, BUZ, BVE, BVF, BVG,  
BVH, BVW



### CONTENTS::

- A - Injection pump/ camshaft alignment pin
- B - Crankshaft pulley locking tool(Bored)
- C - Crankshaft pulley locking tool(Non-bored)
- D - Tensioner pulley adjustment tool(2.4mm Hex Key)
- E - Tensioner pulley locking tool
- F - auxiliary tensioner locking tool(3.9mm)
- G - Sprocket holding tool
- H - Cam sprocket hub puller
- I - Oil Pump /Balancer Shaft Alignment Tool



## VOLKSWAGEN GROUP AUDI/SKODA/VW/SEAT

### Petrol Engine Camshaft Sprocket Holding Tool

9AT1-A01

- For locking the camshaft pulleys when changing the toothed belt
- Engine repairs on 16-valve 1.4/1.6L FSi twin cams injection engine

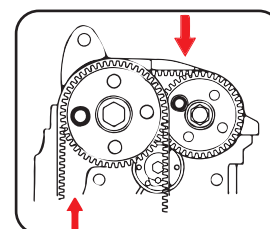
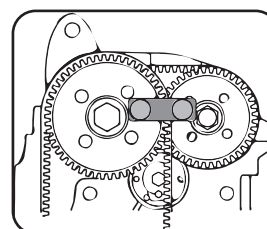
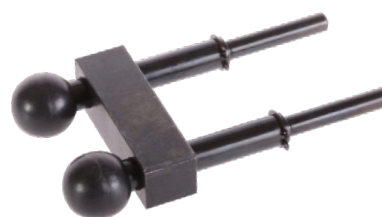
340 6/36

Audi  
A2 (00-06)  
Seat  
Arosa (99-05), Ibiza / Cordoba (99-08)  
Leon (99-05), Toledo (99-05), Inca (00-04)

MODEL: Skoda  
Fabia (99-07), Octavia (00-08)

Volkswagen  
Lupo (98-05), Polo (98-07),  
Golf / Bora (97-08), Beetle (01-08)  
Caddy (99-08)

ENGINE CODE: AFK, AHW, AJV, AKQ, APE, AQQ, AUA, AUB,  
AXP, ARC, ATN, AUS, AVY, AZD, ARR, BBY,  
BBZ, BCA, BKY, BAD, BCB





# Petrol Engine Chain Tensioner Retainer

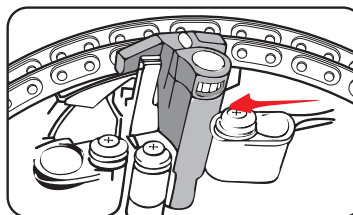
## 9AT1-A04

- Use to hold the chain tensioner in position when removing or installing timing chain
- Suitable for a variety of VAG chain drive engines

46 / 12 / 192

MODEL: A3, A4, A6, A8, S3, S4, TT, etc

**Audi**  
AHA, AMB, AMU, APB, ART, ATC, ATQ, AWM,  
ENGINE CODE: AWA, AWP, BBD, BCY, BEA, BEL, BFM  
**VW**  
AHA, APH, ATQ, AUG, AWM, AWP, AWV, BKF,  
BNU



# Diesel Engine Setting/Locking Tool (Belt Drive)

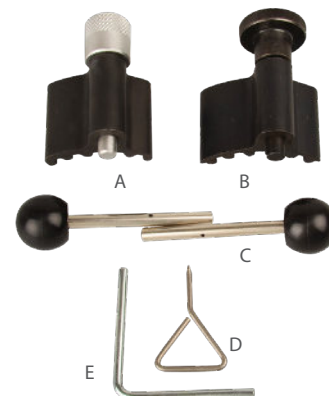
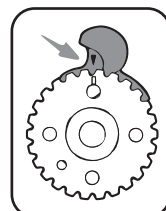
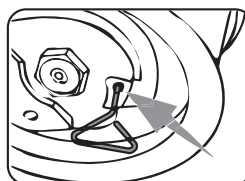
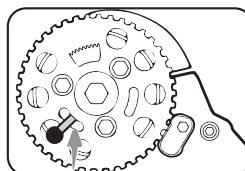
## 9AT2-C01

- The set includes crankshaft (oval/round), camshaft and tensioner locking pins
- Suitable for most of general VAG 1.4/1.9/2.0 TDi PD DOHC engines
- Also for Ford Galaxy models engine

408 / 10 / 40

**Audi**  
A2 1.4 (02-06), A3 1.9/2.0 (02-08), A4 1.2  
MODEL: (02-05), A4 1.9/2.0 (02-05), A6 1.9 (20-05)  
**VW**  
Beetle 1.9 (02-08), Bora 1.9 (02-08), Fox 1.4  
(02-08), Golf 1.9 (02-08), Lupo 1.4 (02-08)  
Polo 1.4/1.9 (02-08), Sharan 1.9 (20-08),  
Jeetta 2.0 (03-), Passat 2.0 (03-), Touran 2.0  
(03-)  
**Seat**  
Altea 1.9 (05-08), Leon 1.9/2.0 (05-08),  
Toledo 1.9 (05-08)  
**Skoda**  
Octavia II 2.0 (03-06), Fabia 1.4 (03-06)

**Audi**  
AMF, ASZ, ATD, AVB, AVF, AWX, AXR, AZV,  
ENGINE CODE: BHC, BKC, BKD, BKE, BLB, BMN, BNA, BPW,  
BRB, BRC, BRD, BRE, BRF, BUY, BVA, BVF,  
BVG  
**VW**  
AJM, AMF, ANU, ARL, ASZ, ATD, AUY, AVB,  
AVF, AWX, AXR, BAY, BMS, BNM, BNZ, BWB  
**Seat**  
BJB, BKC, BLS, BMM, BXE  
**Skoda**  
AMF, AZV, BKD



CONTENTS :

- A - crankshaft locking tool (silver / oval)
- B - crankshaft locking tool (black / round)
- C - camshaft locking pins (2 pcs)
- D - tensioner pulley locking pin
- E - auxiliary belt tensioner locking Pin

# VAUXHALL/OPEL

## Petrol Engine Setting & Locking Set

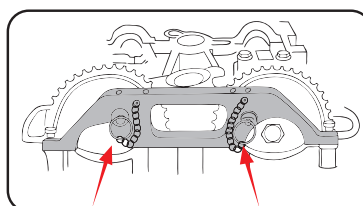
## 9AT1002E

- The set includes camshaft setting tool and tensioner retaining pin
- Suitable for Vauxhall / Opel & Fiat engine
- Use to lock the camshafts on the correct timing position

1510 / 1 / 10

**Petrol 2.2 16v. Twin Cams(Chain)**  
Astra-G (00-06)  
Astra-H (06-09)  
MODEL: Speedster / VX220 (00-06)  
Vectra-B+C (00-08)  
Signum (03-08)  
Zafira-A+B (00-09)

ENGINE CODE: Z22SE, Z22YH



CONTENTS :

- A - camshaft setting tool
- B - tensioner retaining pin



# VAUXHALL/OPEL

## Petrol Turbo Engine Timing Set



9AT1007E

- The setting & locking set covers a wide range of Vauxhall/Opel and Chevrolet petrol engine.
- Include the necessary tool for setting and locking the camshaft and crankshaft for locking the timing chain tensioner. 2.4 1 / 4

7  
PC.



**MODEL:**

**Cadillac :** ELR (2014).

**Chevrolet :**  
Aveo (2011-2015), Cruze (2011-2015), Volt (2012-2014), Trax (2013-2015), Orlando (2011-2015).

**Holden:** Volt (2012-2014).

**Vauxhall / Opel:**  
Agila (2000-2003), Agila-B (2008-2010), Adam (2012-2015), Ampera (2011-2015), Corsa-C (2000-2014), Corsa-D (2006-2014), Insignia (2011-2015), Meriva-B (2010-2015), Mokka (2012-2015), Zafira-C Tourer (2012-2015), Cascada (2013-2015), Astra-J (2009-2015).

**1.0 / 1.0 Ecoflex**

A10XEP

**1.2 / 1.2 Ecoflex**

A12XEL, A12XER, LWD/A12XEL, L2Q/A12XEL, LWD/B12XEL

**1.4 / 1.4 Ecoflex**

A14XER, LUJ/A14NET, LDD/A14XEL, LDD/A14XER,

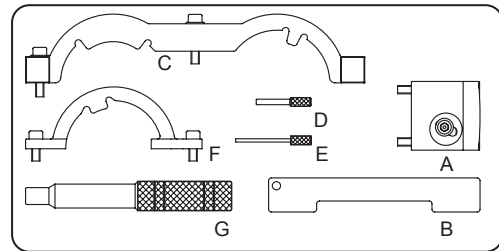
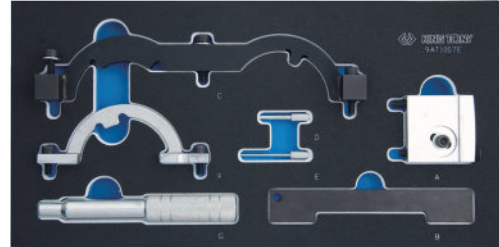
**ENGINE :** LDD/A14XEL, A14XEL, L2Z/A14XEL, LDD/B14XEJ, LDD/B14XEL, LDD/B14XER, LUJ/B14NEH, LUJ/B14NEL, LUJ/B14NET, LDD, LUU, LUH/A14NEL

**1.4 Turbo**

LUJ/A14NEL, LUJ/A14NET, LUJ/B14NET

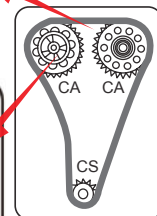
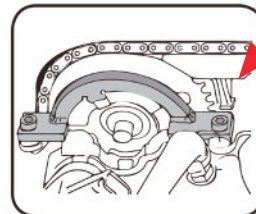
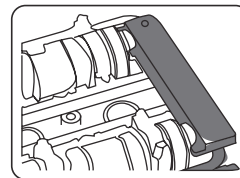
**1.6**

LDE/A16XER, LDE/B16XER



**CONTENTS:**

- A - Inlet Camshaft Adjusting Tool
- B - Camshaft Locking Plate
- C - Camshaft Sensor Locating Tool
- D - Chain Tensioner Locking Pin 4.0mm
- E - Chain Tensioner Locking Pin 2.5mm
- F - Camshaft Sensor Locating Tool
- G - Crankshaft Locking Pin



# VAUXHALL/OPEL

## Petrol & Diesel Engine Tensioner Adjustment Wrench (Via Water Pump)

9AT1202

- The set includes 41mm and 46mm tension adjust wrench
- Suitable for Vauxhall / Opel and Chevrolet engine



2  
PC.

695 6 / 24

**9AT1202 - A(46MM)**

**Petrol / 1.8 and 2.0 S.O.H.C**

Astra F, Calibra, Frontera C18NZ, C20NE

**Diesel / 1.6D and 1.7D**

Astra, Cavalier, Vectra 16DA, 17D

**MODEL:**

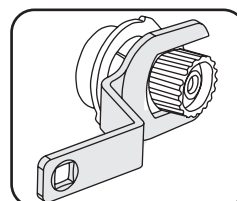
**9AT1202 - B(41MM)**

**Petrol / 1.2 / 1.4 / 1.6 S.O.H.C**

Corsa B / C, Combo, Astra-F, Vectra-B

C12NE, X12SZ, C14NZ, X14NZ, C14SE

X14SZ, X16SZ, X16SZR, Z16SE



**CONTENTS :**

- A - tension adjustment wrench (46mm)
- B - tension adjustment wrench (41mm)





# VAUXHALL/OPEL

## Diesel Engine Setting & Locking Set

### 9AT2004E

- The set includes flywheel locking pin, camshaft setting tools, tensioner locking pin
- Use to retain timing position only. DO NOT use them to hold camshafts in position while releasing or tightening the sprocket bolt



1101 1 / 10

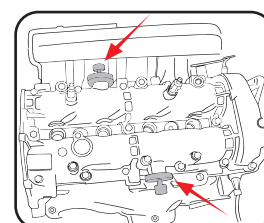
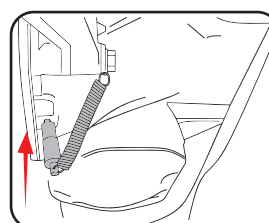
**MODEL:** Diesel 1.3D CDTi (Chain)  
 Agila (03-08), Agila-B (08-09)  
 Corsa / Combo-C (03-09), Corsa-D (08-09)  
 Tigra-B(04-09), Meriva (04-09)  
 Astra-H (05-09)

**ENGINE CODE:** Diesel 1.3D CDTi (Chain)  
 Z13DT, Z13DTH, Z13DTJ



#### CONTENTS :

- A - camshaft setting tool set (pair)
- B - flywheel locking pin
- C - tensioner retaining pin



# VAUXHALL/OPEL

## Diesel Engine Setting & Locking Set

### 9AT2005E

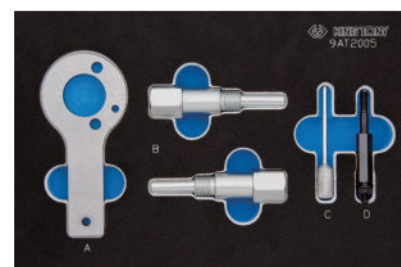
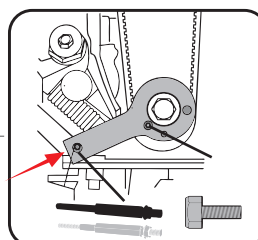
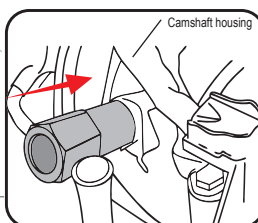
- The set includes crankshaft locking tool, camshaft setting tools(pair) and a tensioner locking pin
- Suitable for Saab, Vauxhall / Opel engine
- Use to set and lock engines timing



1295 1 / 10

**MODEL:** Diesel 1.9D CDTi / 2.0D CDTi(Belt)  
 Astra-H (04-09), Vectra-C(04-08)  
 Signum (04-08), Zafira-B (05-09)  
 Insignia (08-09)

**ENGINE CODE:** Diesel 1.9D CDTi / 2.0D CDTi(Belt)  
 1.9CDTi  
 Z19DT, Z19DTH, Z19DTJ, Z19DTL  
 2.0CDTi  
 A20DT, LBS, A20DT, LBX, A20DT, LBV  
 A20DT, LCD



#### CONTENTS :

- A&D - crankshaft locking tools
- B - camshaft setting tool (pair)
- C - tensioner locking pin



# VAUXHALL/OPEL

## Diesel Engine Setting & Locking Set



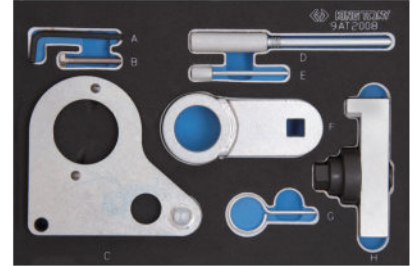
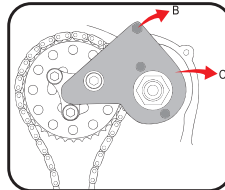
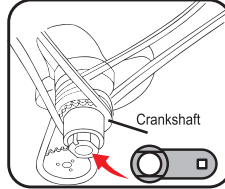
### 9AT2008E

- The set includes auxiliary belt tensioner locking pin, camshaft setting tools, crankshaft pulley holding tool, chain tensioner locking pin and crankshaft locking pin
- Suitable for 2.0 dCi chain drive engines of Renault, Nissan and Vauxhall / Opel

2376 1 / 5

MODEL: Vivaro (07-08)

ENGINE CODE: M9R  
780/782/784



#### CONTENTS :

- A&H – camshaft gear alignment tool
- B&C – camshaft setting plate
- D – crankshaft locking pin
- E – auxiliary belt tensioner locking pin
- F – crankshaft pulley holding tool
- G - chain tensioner locking pin

# VAUXHALL/OPEL

## Diesel Engine 2.5TDS Timing Set



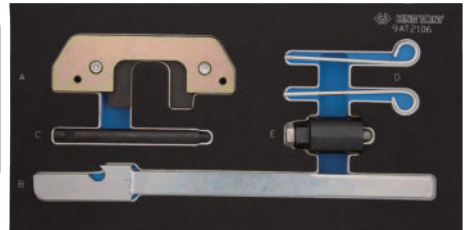
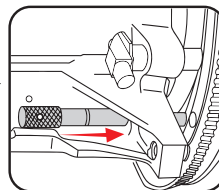
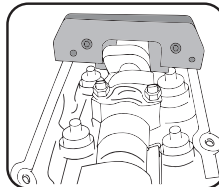
### 9AT2106E

- The set includes camshaft setting plate , tensioner lever , tensioner retaining pin , flywheel locking pin and pump remove & sprocket retainer
- Suitable for BMW, Land Rover and Opel engines
- Use to retain and support the sprocket and timing chain in position when the pump is removed

2480 1 / 5

MODEL: Omega-B (94-01)

ENGINE CODE: 2.5D Turbo (Chain)  
X25DT



#### CONTENTS :

- A – camshaft setting plate
- B – tensioner lever
- C – flywheel locking pin
- D – tensioner retaining pin
- E – pump remove & sprocket retainer (2 part)

## Diesel Engine Setting Tool (Belt Drive)

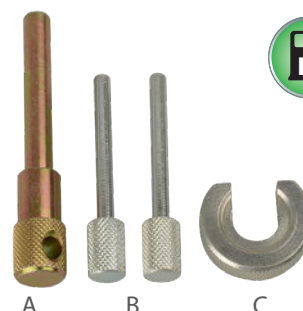
### 9AT2-A01

- The set includes flywheel locking pin, TDC timing pin and tensioner retaining tool
- Use for holding engine timing position when replacing timing belt
- Suitable for Fiat, Iveco, Renault, Citroen / Peugeot, Vauxhall / Opel

112 12 / 120

MODEL: 2.5D / 2.8D  
Arena (97-01)  
Movano (98-03)

ENGINE CODE: S8U  
770, 772  
S9W  
700, 702



#### CONTENTS :

- A – TDC timing pin
- B – flywheel locking pin (2pc)
- C – tensioner retaining tool



# Diesel Injection Pump Puller

## 9AT2-D01

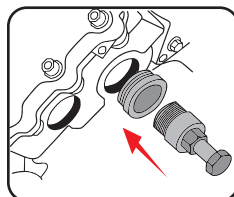
- Specifically designed for holding the sprocket / chain in place when disassembling the VP44 injection pump and high pressure pump
- Common rail fits BMW engines



528 6 / 36

MODEL: Omega - B (01-03)

ENGINE CODE: Y25DT



# VAUXHALL/OPEL

## Petrol Engine Flywheel Holding & Locking Tool

### 9AT2-E01

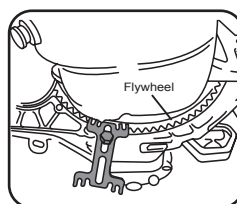
- Use to remove the crankshaft pulley while replacing the timing belt
- Put into the teeth firstly, fix steadily on the housing according to manufacturer's guidelines



39 20 / 100

MODEL: Astra (86-91)  
Astra-F + G (91-98)  
Ascona-C / Cavalier (86-88)  
Vectra A (89-95)

ENGINE CODE: 16DA, 17D, 17DR, 17DTL



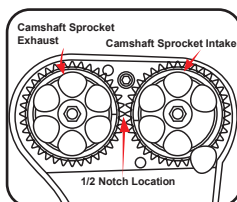
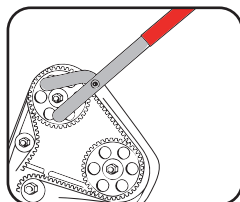
# UNIVERSAL

## Camshaft & Injection Pump Sprocket Holding Tool

### 9AT3-A01

- Use to counter hold camshaft or injection pump sprocket to release the retaining bolt
- For universal diesel and petrol engine

912 6 / 24



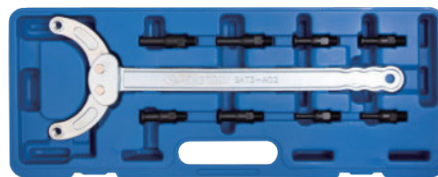
# UNIVERSAL

## Universal Camshaft Pulley Holding Wrench

### 9AT3-A02

- Use to hold camshaft pulley while loosening and tightening cam sprockets center bolt
- Designed with 4 pair groove pins 7, 10, 14, 16mm
- Adjustable swivel jaw both side application for most engine
- Capacity : 40 ~ 140mm (1-1/2" ~ 8-5/8")
- For universal engine, especially O.H.C. overhead cam engines cars

1000 1 / 6



9 PC.



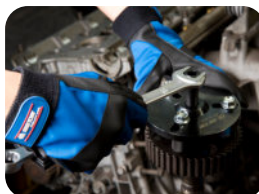
# UNIVERSAL

## Camshaft Sprocket Puller

### 9AT3-A04

- Use to hold and remove the camshaft sprocket without damaging the sprocket
- Use with 3/8" square drive tool or 19mm wrench
- Suitable for most sprockets from Ø60 to Ø100 mm

KT NO.	Capacity mm	1000	1 / 12
9AT3-A04	60~100	1437	1 / 12



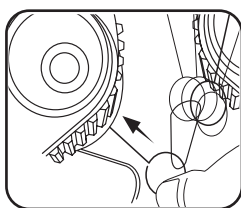
# UNIVERSAL

## Belt Tensioner Lock Pin Set

### 9AT3-B01

- Designed for retaining tensioner plunger in fixed position while replacing timing belt
- Suitable for common vehicle and engine

17 20 / 100



- CONTENTS :
- 0.79mm / .0310"
  - 1.21mm / .0476"
  - 1.41mm / .0560"
  - 1.51mm / .0594"
  - 1.71mm / .0670"
  - 1.92mm / .0760"

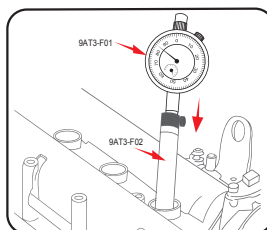
# UNIVERSAL

## Dial Test Indicator

### 9AT3-F01

- Use to measure and accurately find the piston TDC position
- This tool has to use with TDC Indicator 9AT3-F02
- It can be used for mechanical circularity, flatness.....etc

63 1 / 100



# UNIVERSAL

## TDC Indicator

### 9AT3-F02

- Use to measure if the cylinder piston is at TDC position
- This tool has to use with Dial Test Indicator 9AT3-F01

292 1 / 30





# VOLKSWAGEN GROUP AUDI/SKODA/VW/SEAT

## Petrol Engine Timing Set



9AT1306E

- The set includes camshaft setting plate, camshaft sprocket adjusting tool, tensioner adjusting tool, tensioner locking pin and crankshaft locking pin
- Suitable for Audi VAG 3.0 V6 petrol engine
- Use to replace timing belt and carry out timing tensioner applications



3668 1 / 5

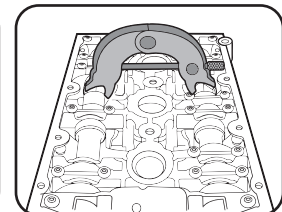
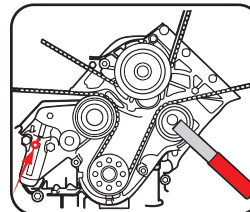
**MODEL:** Audi  
A4 (01-08), A6 (01-08), A8 (03-08)  
Cabrio (03-08)

**ENGINE CODE:** ASN, AVK, BBJ



### CONTENTS :

- A - camshaft setting plate (pair)
- B - crankshaft locking pin
- C - camshaft sprocket adjusting tool
- D - tensioner adjusting tool
- E - tensioner locking pin



# VOLKSWAGEN GROUP AUDI/SKODA/VW/SEAT

## Petrol Engine Setting & Locking Set



9AT1506E

- The set includes dial & TDC indicator and camshaft setting tool
- Suitable for 1.2T / 1.4T FSi and 1.4 / 1.6 FSi engines
- Use to check and adjust engine timing

1856 1 / 10

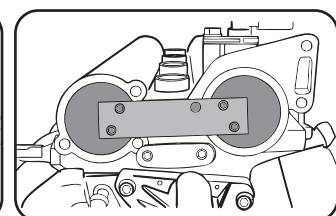
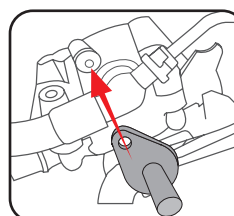
**MODEL:** Audi  
A1(10-12), A3(03-12)  
Seat  
Altea/Altea XL(08-12), Ibiza/Cordoba(08-12)  
Leon(07-12), Toledo(07-09)  
Skoda  
Fabia II(07-12), Octavia II(04-12)  
Roomster(06-12), Superb II(09-12)  
Yeti(09-12)  
VW  
Caddy/ Caddy Maxi(10-12), Eos(06-12)  
Golf(03-12), Golf Plus(03-12), Jetta(06-12)  
Passat(05-11), Polo(02-12), Scirocco(08-12)  
Tiguan(07-12), Touran(03-12)























**ENGINE CODE:** 1.2T FSI  
CBZA, CBZB, CBZC  
1.4T FSI  
BLG, BMY, BWK, CAVA, CAVB, CAVC, CAVD  
CAVE, CAVF, CAXA, CAXC, CDGA, CSMA  
1.4 FSI  
AXU, BKG, BLN  
1.6 FSI  
BAG, BLF, BLP, BTS



### CONTENTS :

- A - camshaft setting plate
- B - TDC indicator
- C - camshaft setting tool
- D - crankshaft locking pin
- E - dial test indicator
- F - tensioner locking pin



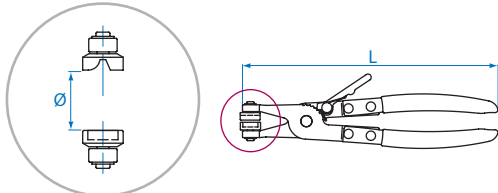
Hose Clamp	KT Item	Suitable Car Brand
     <p>Hose Clamp</p>	 <p>9AA11</p>  <p>9AA13</p>  <p>9AA16</p>  <p>9AA21</p>  <p>9AA31</p>  <p>9AA32</p>	<p>Universal  VW(Intake), VW, Audi, Opel, Honda,  Ford</p>
 <p>Hose Clamp</p>	 <p>9AA17</p>	<p>VW, Audi, Seat, Skoda, Lamborghini</p>
 <p>CLIC Clamp</p>  <p>CLIC-E Clamp</p>  <p>CLIC-R Clamp</p>  <p>CLIC-GR Clamp</p>	 <p>9AA15</p>  <p>9AA25</p>	<p>VW, Audi, Citroen/Peugeot, Fiat,  Mercedes-Benz, Opel, Renault, Ford,  Volvo</p>
 <p>Screw Clamp</p>  <p>Worm Drive Clamp</p>	 <p>1453-05 / 1453-06 / 1453-07  1453-08 / 1453-10</p>	<p>Universal</p>



## Straight Hose Clamp Pliers

### 9AA11

- Use to remove and install spring clamp
- Swivel V-shaped jaws
- Suitable for universal cars, especially VW, Audi, Opel, Honda, Ford

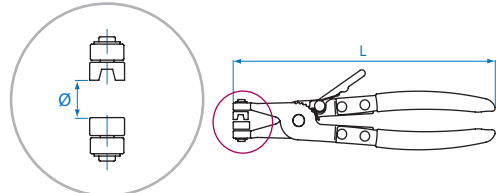


KT NO.	ø mm	inch	L mm	g	kg
9AA11	55	8-21/32	220	220	12 / 72

## Flat Band Hose Clamp Pliers

### 9AA16

- Use to remove and install spring clamp
- Swivel concave jaws
- Suitable for universal cars, especially VW, Audi, Opel, Honda, Ford

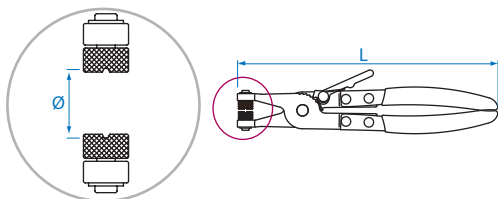


KT NO.	ø mm	inch	L mm	g	kg
9AA16	60	8-21/32	220	213	12 / 72

## Wire Hose Clamp Pliers

### 9AA13

- Use to remove and install wire clamp
- Swivel jaws
- Suitable for universal cars, especially Corbin heater hose

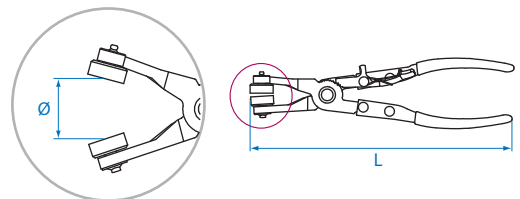


KT NO.	ø mm	inch	L mm	g	kg
9AA13	51	8-21/32	220	238	12 / 72

## Curved Hose Clamp Pliers

### 9AA21

- Use to remove and install spring clamp
- 45° swivel concave jaw with greater access in confined spaces
- Suitable for universal cars, especially VW, Audi, Opel, Honda, Ford



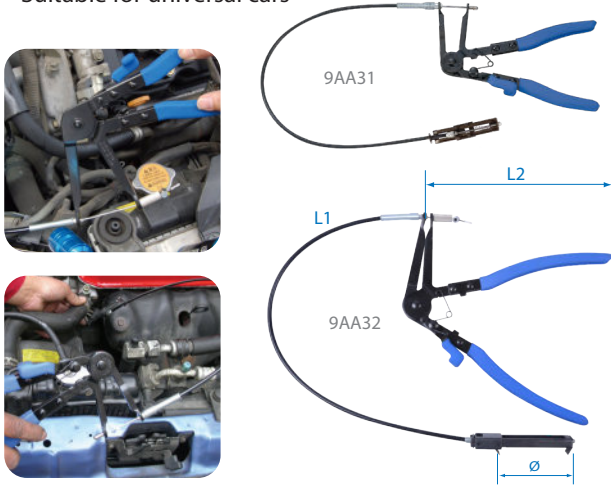
KT NO.	ø mm	inch	L mm	g	kg
9AA21	53	8-21/32	220	224	12 / 48



## Flexible Hose Clamp Pliers

### 9AA31

- Use to remove and install spring clamp
- Flexible flat jaw with greater access in confined spaces
- Suitable for universal cars

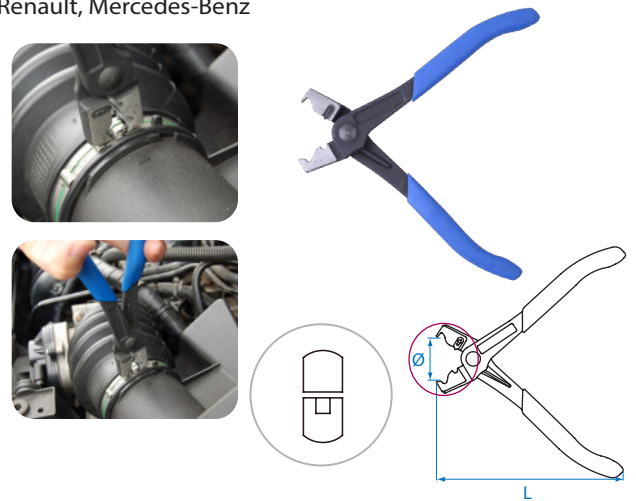


KT NO.	∅ mm	inch	L1 mm	inch	L2 mm	g	kg	box
9AA31	53	25	630	9	225	528	12 / 36	
9AA32	77	27-1/4	700	12	310	756	6 / 24	

## CLIC Hose Clamp Pliers

### 9AA15

- Use to remove and install CLIC and CLIC-R clamp
- Special-designed jaws
- Suitable for VW, Audi, Opel, Citroen, Peugeot, Fiat, Renault, Mercedes-Benz

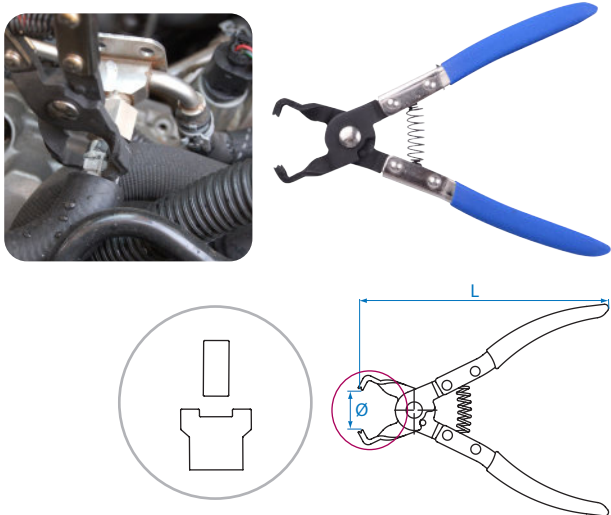


KT NO.	∅ mm	inch	L mm	g	kg	box
9AA15	36	5-19/32	142	223	12 / 72	

## Fuel Line Hose Clamp Pliers

### 9AA17

- Use to remove and install fuel line clamp
- Special pick jaws
- Suitable for VW, Audi, SEAT, Skoda

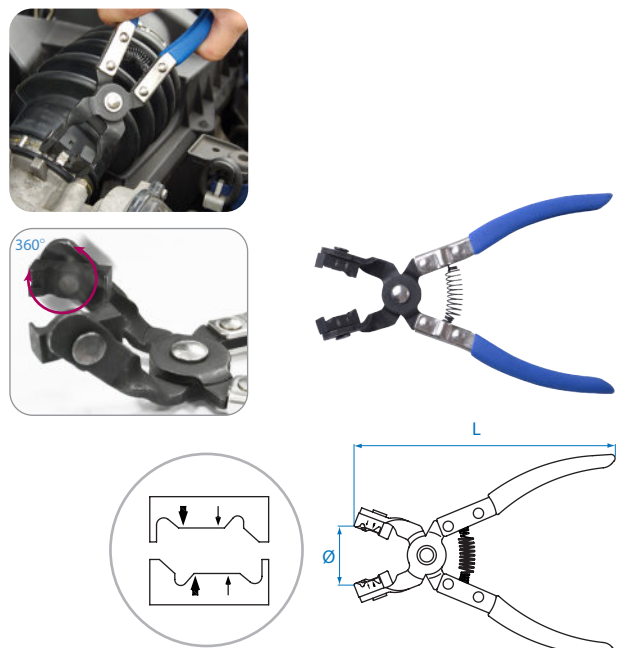


KT NO.	∅ mm	inch	L mm	g	kg	box
9AA17	27	6-3/4	171	188	12 / 60	

## 360° CLIC Hose Clamp Pliers

### 9AA25

- Use to remove and install CLIC and CLIC-R clamp
- 360° swivel angle
- Suitable for VW, Audi, Opel, Citroen, Peugeot, Fiat, Renault, Mercedes-Benz



KT NO.	∅ mm	inch	L mm	g	kg	box
9AA25	32	7	175	224	12 / 72	



# Fuel Line Pliers

## 9AB11

- Improved type can also use for fuel lines with plastic snap-together connectors
- Use for VW, Audi, Fiat, GM, Opel/Vauxhall, Mercedes-Benz



KT NO.	Inch	L	mm		
9AB11	9		228	312	12 / 72

## 9AB12

- For removal and replacement of the connections on the in-line fuel filter
- Use for VW, PSA, Fiat, Opel



KT NO.	Inch	L	mm		
9AB12	6		150	87	12 / 144



# Piston Ring Compressor

## 9AC

- The square adjustment key wrench forces the rings into the grooves and the clutch prevents it from expanding

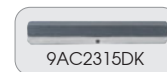


KT NO.	H		Ø Capacity		g	Box / Carton
	inch	mm	inch	mm		
9AC125-32	3-1/4	80	2-1/4~5	57~125	260	20 / 60
9AC125-40	4	100	2-1/4~5	57~125	280	20 / 60
9AC175-32	3-1/4	80	3-1/2~7	90~175	300	20 / 60
9AC175-40	4	100	3-1/2~7	90~175	320	20 / 60
9AC175-66	6-3/4	165	3-1/2~7	90~175	530	20 / 40

# Engine Cylinder Hone 50~175mm

## 9AC231-54

- For engine cylinders bores from 50mm to 175mm
- Adjustable spring tension and spread limiter easy to remove carbon
- The hone stones is 220 grit, coarse grade

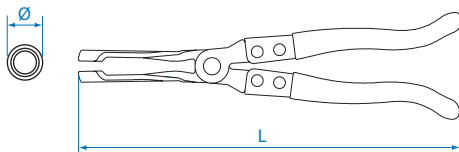


KT NO.	Ø Capacity mm	g	Box / Carton
9AC231-54	50~175	700	6 / 24

# Valve Stem Seal Pliers

## 9AD11

- For removing valve stem seals in multi-valves engine
- Jaw longitudinal toothed - avoids slipping down
- For deeply leveled valve stem seals



KT NO.	L	Ø	g	Box / Carton
	inch	mm	mm	
9AD11	11	275	9.5	400
				12 / 48

# Swivel Oil Filter Wrench

## 9AE31

- Professional swivel PVC dipped handle
- Easy to bend in different positions for reaching into narrow spaces



KT NO.	Ø Capacity mm	g	Box / Carton
9AE31-73	60~73	275	6 / 36
9AE31-85	73~85	283	6 / 36
9AE31-95	85~95	300	6 / 36
9AE31-111	95~111	307	6 / 36
9AE31-121	110~121	309	6 / 36
9AE31-134	120~134	322	6 / 36

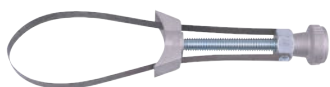






## Band Type Oil Filter Wrench

### 9AE32

- Adjustable metal band
- Suitable for filters between  $\varnothing 65\text{mm}$  to  $\varnothing 155\text{mm}$



KT NO.	$\varnothing$ Capacity mm		
9AE32-110	65~110	246	25 / 50
9AE32-155	110~155	252	25 / 50

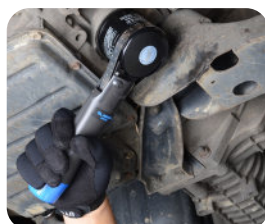
## Quick Grip Oil Filter Wrench Set



### 9AE33

- Quick-adjustable tightening design
- Band type allows for narrow space
- Non-slip reaction teeth provides better grip



- The design offers a stronger clamping force



KT NO.	$\varnothing$ Capacity mm		
9AE33-110	65~110	305	1 / 25
9AE33-155	110~155	311	1 / 25



## Strap Wrench

3203

- Strap wrench for oil filter



KT NO.	Capacity mm	Overall length Inch	mm		
3203	Ø 60~140	8-3/4	223	242	50
320300	strap			46	80
3203A0	Ø 60~260	8-3/4	223	300	45
320301	strap			73	80

32067A

- Aluminum alloy handle and strong polyester strap for tight grip
- Suitable for oil filter or any polished pipe



KT NO.	Overall Length Inch	mm	Capacity mm		
32067A	12	295	Ø 60~180	344	25 / 50
3206A00	Polyester strap			35	25 / 50

320760

- Strap wrench for oil filter
- Use with 1/2" square drive tool

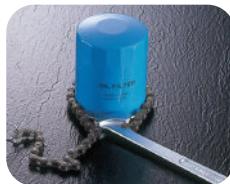


KT NO.	Overall length Inch	mm	Capacity mm		
320760	11	280	Ø 60~160	256	12 / 72

## Chain Wrench

3204

- Chain wrench for oil filter



KT NO.	Capacity mm	Overall length Inch	mm		
3204	Ø 60~140	8-3/4	225	359	50

## Chain Wrench

3205

- Heavy duty oil filter chain wrench, specially for auto, truck and agricultural equipment
- Flexible in confined space
- Suitable for all types of oil filters



Swiveling

- Adjust to appropriate size of the oil filter.



- Release the chain to reinstate it.

KT NO.	Capacity mm	Chain length mm		
320540	Ø 60~105	350	742	6 / 24
320560	Ø 60~160	520	880	6 / 24



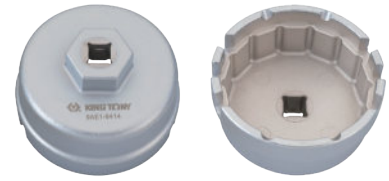


# Cup Type Oil Filter Wrench

## 9AE1

3/8"

- 3/8" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Cup-type design, reduce the possibility to damage oil filters
- Material: Aluminum



KT NO.	Drive size	Diameter inch	Diameter mm	Flutes	Applicable models		
9AE1-6414 (Aluminum)	3/8"	2-1/2	64	14	TOYOTA 4 Cylinder (1800CC,2000CC) ,ALLION, AURIS, COROLLA AXIO, ISIS, IST, COROLLA RUMION, COROLLA FIELDER, NOAH, PREMIO, PRIUS, VOXY, WISH, etc...	164	12 / 72

## 9AE2

3/8"

- 3/8" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Coated with electro-black oxide finish for protection against rust
- Cup-type design, reduce the possibility to damage oil filters



KT NO.	Drive size	Diameter inch	Diameter mm	Flutes	Applicable models		
9AE2-6514	3/8"	2-9/16	65	14	Fits Nissan, Fiat Champ, Hasting. GM/AC, Wix, NAPA, Purolator, Daihatsu, Toyota, Nissan, etc...	220	12 / 72
9AE2-6567	3/8"	2-9/16 & 2-21/32	65 & 67	14	Fits same filters as made in Canada including, PH4386, PH4967, PH6017, PH6018, Daihatsu, Toyota, etc...	220	12 / 72
9AE2-6606	3/8"	2-19/32	66	6	Fiat(Punto, 1.2), Renault(Clio 1.2 Express, Kangoo. Rapid. Twingo), etc....	153	12 / 72
9AE2-7476	3/8"	2-29/32 & 3	74 & 76	15	Fits Fram, AC, Saturn, Opel, VW, Audi, Mercedes, etc....	167	12 / 72
9AE2-7608	3/8"	3	76	8	Fiat(z.B. Marea), Lancia(z.B. Delta), etc....	181	12 / 72
9AE2-7612	3/8"	3	76	12	Fiat(z.B. Ducato, Scudo, Ulysee),Renault, (Megane, Laguna, Espace III.), etc....	167	12 / 72
9AE2-7614	3/8"	3	76	14	Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche,Mercedes, BMW, Audi, Toyota, Opel, etc....	167	12 / 72
9AE2-8616	3/8"	3-3/8	86	16	Volvo(S40, S60, S70, S80) etc....	188	12 / 72
9AE2-8618	3/8"	3-3/8	86	18	VW. Golf.(MKIII. Tdi, Passat Tdi), Audi A6 Tdi, Renault(Clio, Rapid 1.9D, Laguna.Safrane. Espace 2.1D). Citroen, Peugeot, Renault, etc..	181	12 / 72
9AE2-9210	3/8"	3-40/64	92	10	Fiat, Cinquecento, Coupe, Croma, DAF, Fiat, Panda. Regata, Ritmo Fiat, Seicento. Tempra, Tipo, Lancia(Beta. Dedra. Kappa. Monte. Carlo. Prisma. Thema. Trevi), etc....	181	12 / 72
9AE2-9315	3/8"	3-21/32	93	15	Fits Casite, Champ, Champion, GM, Fram, Hastings,Purolator, Wix, Nissan, Volvo, Mazda, Audi, VW, Porsche, Renault, etc....	181	12 / 72
9AE2-9345	3/8"	3-21/32	93	45	VW-Audi.(TDi 2.4, 2.6, 2.8L), etc....	181	12 / 72
9AE2-9618	3/8"	3-3/4	96	18	Audi(A4 Tdi, VW Passat,97 Tdi), Renault (Laguna 2.2d. Safrane2.2D. Espace 2.2D. R19 2.2D. Rapid, Megane,1.9/2.1D. Tdi) etc..	208	12 / 72
9AE2-10615	3/8"	4-11/64	106	15	Fiat(Ducato 2.5D. Td), etc....	222	12 / 72
9AE2-10815	3/8"	4-8/32	108	15	Volvo(C70. S70. V70. Tdi. TD)(850 Tdi. TD) etc....	222	12 / 72
9AE2-10818	3/8"	4-8/32	108	18	Renault(Espace, Laguna, Master, Safrane, Traffic 2.4, 2.5, 2.8D. TD), etc....	222	12 / 72



# Cup Type Oil Filter Wrench Set

9AE2002

3/8"

- 3/8" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Coated with electro-black oxide finish for protection against rust
- Cup-type design, reduce the possibility to damage oil filters



2  
PC.

KT NO.	Drive size	Diameter inch	Diameter mm	Flutes	Applicable models	Weight g	Quantity
9AE2-6514	3/8"	2-9/16	65	14	Fits Nissan, Fiat Champ, Hasting. GM/AC, Wix, NAPA, Purolator, Daihatsu, Toyota, Nissan, etc...	282	1 / 40
9AE2-6567	3/8"	2-9/16 & 2-21/32	65 & 67	14	Fits same filters as made in Canada including, PH4386, PH4967, PH6017, PH6018, Daihatsu, Toyota, etc...		



# Cup Type Oil Filter Wrench Set

9AE2004

3/8"

- 3/8" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Coated with electro-black oxide finish for protection against rust
- Cup-type design, reduce the possibility to damage oil filters

4  
PC.



KT NO.	Drive size	Diameter inch	Diameter mm	Flutes	Applicable models	Weight g	Quantity
9AE2-6606	3/8"	2-19/32	66	6	Fiat (Punto, 1.2), Renault (Clio1.2 Express, Kangoo, Rapid, Twingo), etc...	571	1 / 20
9AE2-7608	3/8"	3	76	8	Fiat (z.B. Marea), Lancia (z.B. Delta), etc...		
9AE2-7614	3/8"	3	76	14	Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes-Benz, BMW, Audi (I.B.A3TD) Opel, etc...		
9AE2-9315	3/8"	3-21/32	93	15	Fits Casite, Champ, Champion, GM, Fram, Hastings, Opel, Mazda, Volvo, Mitsubishi, Purolator, Wix, Nissan, VW, Porsche, Renault, Ford, Honda, Audi, etc...		





# Cup Type Oil Filter Wrench Set

9AE2016

3/8"

- 3/8" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Coated with electro-black oxide finish for protection against rust
- 1 PC. 1/2"(F)x3/8"(M) adapter
- 1 PC. 3 legs oil filter wrench(63-102mm)



16  
PC.

KT NO.	Drive size	Diameter inch	Diameter mm	Flutes	Applicable models	Kg 4.00	1 / 5
9AE2-6606	3/8"	2-19/32	66	6	Fiat(Punto, 1.2), Renault(Clio 1.2 Express, Kangoo, Rapid, Twingo), etc....		
9AE2-7476	3/8"	2-29/32 & 3	74 & 76	15	Fits Fram, AC, Saturn, Opel, VW, Audi, Mercedes, etc....		
9AE2-7608	3/8"	3	76	8	Fiat(z.B. Marea), Lancia(z.B. Delta), etc....		
9AE2-7612	3/8"	3	76	12	Fiat(z.B. Ducato, Scudo, Ulysee), Renault, (Megane, Laguna, Espace III.), etc....		
9AE2-7614	3/8"	3	76	14	Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes, BMW, Audi, Toyota, Opel, etc....		
9AE2-8616	3/8"	3-3/8	86	16	Volvo(S40, S60, S70, S80) etc....		
9AE2-8618	3/8"	3-3/8	86	18	VW, Golf.(MKIII, Tdi, Passat Tdi), Audi A6 Tdi, Renault(Clio, Rapid 1.9D, Laguna, Safrane, Espace 2.1D). Citroen, Peugeot, Renault, etc..		
9AE2-9210	3/8"	3-40/64	92	10	Fiat, Cinquecento, Coupe, Croma, DAF, Fiat, Panda, Regata, Ritmo Fiat, Seicento, Tempra, Tipo, Lancia(Beta, Dedra, Kappa, Monte, Carlo, Prisma, Thema, Trevi), etc....		
9AE2-9315	3/8"	3-21/32	93	15	Fits Casite, Champ, Champion, GM, Fram, Hastings, Purolator, Wix, Nissan, Volvo, Mazda, Audi, VW, Porsche, Renault, etc....		
9AE2-9345	3/8"	3-21/32	93	45	VW-Audi.(TDi 2.4, 2.6, 2.8L), etc....		
9AE2-9618	3/8"	3-3/4	96	18	Audi(A4 Tdi, VW Passat, 97 Tdi), Renault (Laguna 2.2d, Safrane 2.2D, Espace 2.2D, R19 2.2D, Rapid, Megane, 1.9/2.1D, Tdi) etc..		
9AE2-10615	3/8"	4-11/64	106	15	Fiat(Ducato 2.5D, Td), etc....		
9AE2-10815	3/8"	4-8/32	108	15	Volvo(C70, S70, V70, Tdi, TD)(850 Tdi, TD) etc....		
9AE2-10818	3/8"	4-8/32	108	18	Renault(Espace, Laguna, Master, Safrane, Traffic 2.4, 2.5, 2.8D, TD), etc....		
9AE423	3/8"	2-1/2~4	63~102	-	3 legged oil Filter Tool		
9AE221	1/2"	-	-	-	Adaptor 1/2" F x 3/8" M		



# Cup Type Oil Filter Wrench

## 9AE0

## 1/2"

- 1/2" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Cup-type design, reduce the possibility to damage oil filters
- Material: Aluminum



KT NO.	Drive size	Diameter inch	Diameter mm	Flutes	Applicable models		
9AE0-6414 (Aluminum)	1/2"	-	64	14	TOYOTA.NISSAN	93	1 / 100
9AE0-7414 (Aluminum)	1/2"	-	74	14	AUDI. VW. OPEL. BMW. AUSTIN. 2003+FORD	118	1 / 100

## 9AE6

## 1/2"

- 1/2" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Coated with electro-black oxide finish for protection against rust
- Cup-type design, reduce the possibility to damage oil filters



KT NO.	Drive size	Diameter inch	Diameter mm	Flutes	Applicable models		
9AE6-6514	1/2"	2-8/16	65	14	Fits Nissan, Fiat Champ, Hasting. GM/AC, Wix, NAPA, Purolator, Daihatsu, Toyota, Nissan, etc...	112	12 / 72
9AE6-6514A	1/2"	2-9/16	65	14	Fits Nissan, Fiat Champ, Hasting. GM/AC, Wix, NAPA, Purolator, Daihatsu, Toyota, Nissan, etc...	112	12 / 72
9AE6-6567	1/2"	2-9/16 & 2-21/32	65 & 67	14	Fits same filters as made in Canada including, PH4386, PH4967, PH6017, PH6018, Daihatsu, Toyota, etc...	222	12 / 72
9AE6-6606	1/2"	2-19/32	66	6	Fiat (Punto, 1.2), Renault (Clio 1.2 Express, Kangoo. Rapid, Twingo), etc...	222	12 / 72
9AE6-6814	1/2"	2-11/16	68	14	Fits Hastings, Mazda, Ford Escort, Capri, Subaru, Fran, PH6607 (Those Fram Filters Made in Korea), Motorcraft, FL816, etc...	222	12 / 72
9AE6-7314	1/2"	2-7/8	73	14	Fits Toyota/Lexus, etc...	222	12 / 72
9AE6-7414	1/2"	2-29/32	74	14	Audi, Volkswagen, BMW, Citroën, Peugeot, Ford, Fiat, Lancia, Mazda, Mercedes-Benz, Nissan, Vauxhall, Opel, Porsche, Renault, Suzuki, Toyota, etc...	153	12 / 72
9AE6-7415	1/2"	2-29/32	74	15	MF, Audi (#056-115-561g), GM. Rover, Chrysler, etc...	222	12 / 72
9AE6-7476	1/2"	2-29/32 & 3	74 & 76	15	Fits Fram, AC, Saturn, Opel, VW, Audi, Mercedes, etc...	243	12 / 72
9AE6-7577	1/2"	2-15/16 & 3-1/32	75 & 77	15	Fits VW, Audi, Casite, GM/AC, Hastings, Wix, NAPA, Ford, Isuzu, Mercedes, Opel, etc...	222	12 / 72
9AE6-7608	1/2"	3	76	8	Fiat (z.B. Marea), Lancia (z.B. Delta), etc...	222	12 / 72
9AE6-7612	1/2"	3	76	12	Fiat (z.B. Ducato, Scudo, Ulysee), Renault, (Megane, Laguna, Espace III), etc...	222	12 / 72
9AE6-7614	1/2"	3	76	14	Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes, Benz, BMW, Audi (I.B.A3TD) Opel, etc...	243	12 / 72
9AE6-7630	1/2"	3	76	30	Fits Motorcraft only-FL400A, Ford, etc...	243	12 / 72
9AE6-7815	1/2"	3-2/32	78	15	Nissan (#15028H8991), Ford, Toyota, Honda (Accord), etc...	243	12 / 72
9AE6-8015	1/2"	3-9/64	80	15	Fits Opel, Hastings, Fram, Purolator, Nissan, Honda, Motorcraft, Mazda, Isuzu, Subaru filters.	243	12 / 72
9AE6-8082	1/2"	3-9/64 & 3-7/32	80 & 82	15	Fits Wix Filters. Branded for: Mazda, Subaru, Toyota, Honda, Acura, Nissan, NAPA, etc...	243	12 / 72
9AE6-8414	1/2"	3-3/10	84	14	Mercedes Benz V6/V8 CDI models, etc...	194	12 / 72
9AE6-8616	1/2"	3-3/8	86	16	Volvo (S40, S60, S70, S80), etc...	180	12 / 72





# Cup Type Oil Filter Wrench

9AE6

1/2"

- 1/2" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Coated with electro-black oxide finish for protection against rust
- Cup-type design, reduce the possibility to damage oil filters



KT NO.	Drive size	Diameter inch	Diameter mm	Flutes	Applicable models	Weight	Quantity
9AE6-8618	1/2"	3-3/8	86	18	VW. Golf. (MKIII. TDi, Passat TDi), Audi A6 TDi, Renault (Clio, Rapid 1.9D, Laguna, Safrane, Espace 2.1D), Citroen, Peugeot, Renault, etc...	243	12 / 72
9AE6-9015	1/2"	3-17/32	90	15	Fits Honda (Accord). Mitsubishi. Mopar. Isuzu, etc...	180	12 / 72
9AE6-9210	1/2"	3-40/64	92	10	Fiat, Cinquecento, Coupe, Croma, DAF, Fiat, Panda, Regata, Ritmo Fiat, Seicento. Tempra, Tipo, Lancia (Beta. Dedra. Kappa. Monte. Carlo. Prisma. Thema. Trevi), etc...	260	12 / 72
9AE6-9315	1/2"	3-21/32	93	15	Fits Casite, Champ, Champion, GM, Fram, Hastings, Opel, Mazda, Volvo. Mitsubishi, Purolator, Wix, Nissan, VW, Porsche, Renault, Ford, Honda, Audi, etc...	260	12 / 72
9AE6-9336	1/2"	3-21/32	93	36	Fits Ford, Motorcraft only-FL1A, (FLA1B, FL300, FL820 Ford), etc...	260	12 / 72
9AE6-9345	1/2"	3-21/32	93	45	VW-Audi, (TDi 2.4, 2.6, 2.8L), etc...	260	12 / 72
9AE6-9515	1/2"	3-6/8	95	15	Toyota (#15600-41010) Alfa Romeo, GM, Ford, Chrysler.	260	12 / 72
9AE6-9618	1/2"	3-3/4	96	18	Audi (A4.A6, TDi), VW (Passat 97 TDi), Renault (Laguna 2.2D, Safrane 2.2D. Espace 2.2D.R19 2.2D. Rapid. Megane, 1.9/2.1D.TDi), etc...	260	12 / 72
9AE6-10015	1/2"	3-15/16	100	15	Fits Fram, Motorcraft, Wix, Isuzu, Mitsubishi, etc...	220	12 / 72
9AE6-10615	1/2"	4-11/64	106	15	Fiat (Ducato 2.5D.Td), etc...	190	12 / 72
9AE6-10815	1/2"	4-8/32	108	15	Volvo (C70.S70.V70.TDi.TD) (850 TDi. Turbo Diesel)	190	12 / 72
9AE6-10818	1/2"	4-8/32	108	18	Renault (Espace, Laguna, Master, Safrane, Traffic 2.4, 2.5, 2.8D. TD), etc...	190	12 / 72

# Cup Type Oil Filter Wrench Set

9AE6002

1/2"

- 1/2" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Coated with electro-black oxide finish for protection against rust
- Cup-type design, reduce the possibility to damage oil filters



2 PC.

KT NO.	Diameter inch	Diameter mm	Flutes	Applicable models	Weight	Quantity
9AE6-6514	2-9/16	65	14	Fits Nissan, Fiat Champ, Hasting. GM/AC, Wix, NAPA, Purolator, Daihatsu, Toyota, Nissan, etc...	282	1 / 40
9AE6-6567	2-9/16" & 2-21/32	65 & 67	14	Fits same filters as made in Canada including, PH4386, PH4967, PH6017, PH6018, Daihatsu, Toyota, etc...		

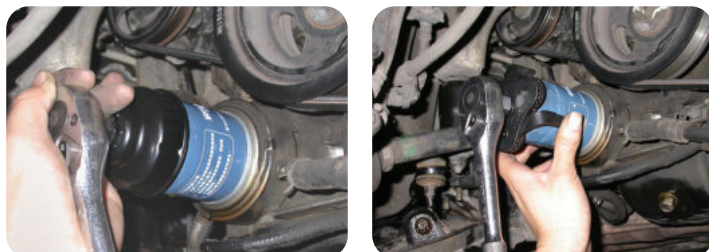


# Cup Type Oil Filter Wrench Set

9AE6030

1/2"

- 1/2" square drive
- Withstands up to 115.2 N-m(85 ft-lb)
- Coated with electro-black oxide finish for protection against rust
- Cup-type design, reduce the possibility to damage oil filters
- Suitable for 3/8" or 1/2" drive tool



30 PC.

KT NO.	Drive size	Diameter Inch	Diameter mm	Flutes	Applicable models	Weight Kg	Volume L
9AE6-6514	1/2"	2-8/16	65	14	Fits Nissan, Fiat Champ, Hasting. GM/AC, Wix, NAPA, Purolator, Daihatsu, Toyota, Nissan, etc...	6.67	1 / 3
9AE6-6567	1/2"	2-9/16 & 2-21/32	65 & 67	14	Fits same filters as made in Canada including, PH4386, PH4967, PH6017, PH6018, Daihatsu, Toyota, etc...		
9AE6-6606	1/2"	2-19/32	66	6	Fiat (Punto, 1.2), Renault (Clio 1.2 Express, Kangoo, Rapid, Twingo), etc...		
9AE6-6814	1/2"	2-11/16	68	14	Fits Hastings, Mazda, Ford Escort, Capri, Subaru, Fran, PH6607 (Those Fram Filters Made in Korea), Motorcraft, FL816, etc...		
9AE6-7314	1/2"	2-7/8	73	14	Fits Toyota/Lexus, etc...		
9AE6-7415	1/2"	2-29/32	74	15	MF, Audi (#056-115-561g), GM, Rover, Chrysler, etc...		
9AE6-7476	1/2"	2-29/32 & 3	74 & 76	15	Fits Fram, AC, Saturn, Opel, VW, Audi, Mercedes, etc...		
9AE6-7577	1/2"	2-15/16 & 3-1/32	75 & 77	15	Fits VW, Audi, Casite, GM/AC, Hastings, Wix, NAPA, Ford, Isuzu, Mercedes, Opel, etc...		
9AE6-7608	1/2"	3	76	8	Fiat (z.B. Marea), Lancia (z.B. Delta), etc...		
9AE6-7612	1/2"	3	76	12	Fiat (z.B. Ducato, Scudo, Ulysee), Renault, (Megane, Laguna, Espace III), etc...		
9AE6-7614	1/2"	3	76	14	Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes, Benz, BMW, Audi (I.B.A3TD) Opel, etc...		
9AE6-7630	1/2"	3	76	30	Fits Motorcraft only-FL400A, Ford, etc...		
9AE6-7815	1/2"	3-2/32	78	15	Nissan (#15028H8991), Ford, Toyota, Honda (Accord), etc...		
9AE6-8015	1/2"	3-9/64	80	15	Fits Opel, Hastings, Fram, Purolator, Nissan, Honda, Motorcraft, Mazda, Isuzu, Subaru filters.		
9AE6-8082	1/2"	3-9/64 & 3-7/32	80 & 82	15	Fits Wix Filters. Branded for: Mazda, Subaru, Toyota, Honda, Acura, Nissan, NAPA. Etc...		
9AE6-8616	1/2"	3-3/8	86	16	Volvo (S40, S60, S70, S80), etc...		
9AE6-8618	1/2"	3-3/8	86	18	VW, Golf. (MKIII, TDi, Passat TDi), Audi A6 TDi, Renault (Clio, Rapid 1.9D, Laguna, Safrane, Espace 2.1D), Citroen, Peugeot, Renault, etc...		
9AE6-9015	1/2"	3-17/32	90	15	Fits Honda (Accord). Mitsubishi. Mopar. Isuzu, etc...		
9AE6-9210	1/2"	3-40/64	92	10	Fiat, Cinquecento, Coupe, Croma, DAF, Fiat, Panda, Regata, Ritmo Fiat, Seicento, Tempra, Tipo, Lancia (Beta, Dedra, Kappa, Monte, Carlo, Prisma, Thema, Trevi), etc...		
9AE6-9315	1/2"	3-21/32	93	15	Fits Casite, Champ, Champion, GM, Fram, Hastings, Opel, Mazda, Volvo, Mitsubishi, Purolator, Wix, Nissan, VW, Porsche, Renault, Ford, Honda, Audi, etc...		
9AE6-9336	1/2"	3-21/32	93	36	Fits Ford, Motorcraft only-FL1A, (FLA1B, FL300, FL820 Ford), etc...		
9AE6-9345	1/2"	3-21/32	93	45	VW-Audi, (TDi 2.4, 2.6, 2.8L), etc...		
9AE6-9515	1/2"	3-6/8	95	15	Toyota (#15600-41010) Alfa Romeo, GM, Ford, Chrysler.		
9AE6-9618	1/2"	3-3/4	96	18	Audi (A4, A6, TDi), VW (Passat 97 TDi), Renault (Laguna 2.2D, Safrane 2.2D, Espace 2.2D, R19 2.2D, Rapid, Megane, 1.9/2.1D, TDi), etc...		
9AE6-10015	1/2"	3-15/16	100	15	Fits Fram, Motorcraft, Wix, Isuzu, Mitsubishi, etc...		
9AE6-10615	1/2"	4-11/64	106	15	Fiat (Ducato 2.5D, Td), etc...		
9AE6-10815	1/2"	4-8/32	108	15	Volvo (C70, S70, V70, TDi, TD) (850 TDi, Turbo Diesel)		
9AE6-10818	1/2"	4-8/32	108	18	Renault (Espace, Laguna, Master, Safrane, Traffic 2.4, 2.5, 2.8D, TD), etc...		
9AE433	1/2"	2-9/16~4-23/32	65~120		3 legged oil Filter Tool		
9AE221	1/2"	-	-	-	Adaptor 1/2" F x 3/8" M		





# Oil Filter Socket Set

9AE8006

3/8"

- 3/8" square drive
- The set includes sizes 24, 27, 30, 32, 36 and 38mm
- 6 PC. oil filter sockets designed for removal of oil filter canisters and covers
- Withstands up to 115.2 N-m(85 ft-lb)

6  
PC.



KT NO.



Applicable models

1.11 12 / 24

KT NO.	Drive size	Flutes	Applicable models
9AE8-24	3/8"	6	Audi BMW: 5 / 7 Series (N62) V8 engines from 2004 onward Cadillac: ATS 36
9AE8-27	3/8"	6	BMW, Ford, Fiat, GM, Renault, VAG, PSA Mercedes-Benz: A-CLASS Nissan: 1.5 / 1.9 / 2.2 / 2.5 dCi engines
9AE8-30	3/8"	6	Audi, Skoda, Seat, VW
9AE8-32	3/8"	6	GM, VAG BMW: 335D, X5 35d(09~10), X5 xDrive 35d(11~13) Opel / Vauxhall: Astra-G, Corsa-B, Zafira
9AE8-36	3/8"	6	Audi: A3 2.0(04~08), A4 2.0(04~08) BMW: M52, M54, M60, M62, M70 & M73 engines Ford: Mondeo 2.0D 16V Dura Torq engines, Transit 2.5 & 2.0 diesel engines Jaguar: 2.2D engines Mercedes-Benz: 116MB engine Vito CDI Mini: R56 Opel / Vauxhall: Omega DL 16V, Vectra 2.0, Zafira VAG: VAG 1.9 SDi (ASY), Golf GTI 2.0, Passat 2.0, VR6 Volvo
9AE8-38	3/8"	6	BMW, Volvo Opel / Vauxhall: Vectra 2 liter diesel engines



# Three-Legs Oil Filter Wrench

## 9AE42

- The claw-type filter is available for removing all oil filters from 2-1/2" to 4" (63-102mm) in diameter
- Suitable for 3/8" or 1/2" square drive tool
- Coated with electro-black oxide finish for protection against rust
- **CW & CCW direction**

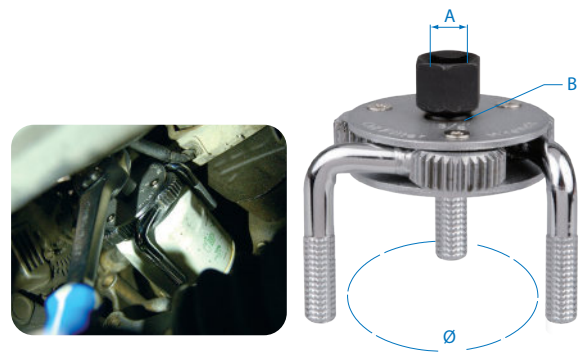
KT NO.	A B		Ø Capacity		g	kg
	inch	inch	inch	mm		
9AE42	1/2	3/8	2-1/4~4	63~102	395	12 / 48
9AE221	1/2	3/8	-	-	39	-
9AE433	1/2	3/8	2-9/16~4-23/32	65~120	502	12 / 36



## 9AE43

- The claw-type filter is available for removing all oil filters from 3" to 4-3/4" (75-120mm) in diameter
- Suitable for 3/8" or 1/2" square drive tool
- Heavy duty design
- **CW & CCW direction**

KT NO.	A B		Ø Capacity		g	kg
	inch	inch	inch	mm		
9AE43	1/2	3/8	3~4-3/4	75~120	604	1 / 36

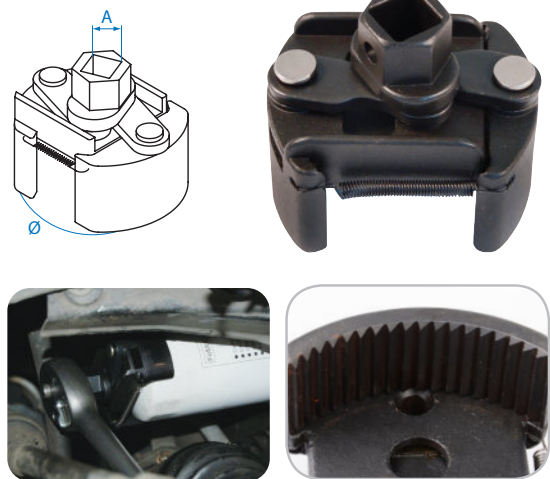


# Two Jaws Oil Filter Wrench

## 9AE52

- The two jaws oil filter wrench is capable of removing all kinds of oil filter
- Suitable for using with 1/2" square drive tool
- Lost wax coating with electro-black oxide finish for protection against rust
- Specially teeth designed steel jaws

KT NO.	A		Ø Capacity		g	kg
	inch	inch	inch	mm		
9AE52	1/2	1/2	2-3/8~3-1/8	60~80	470	1 / 16
9AE52-110	1/2	1/2	3-1/8~4-5/16	80~110	985	1 / 12



## 9AE53

- The claw-type filter is available for removing all oil filters from 3-1/8" to 4-1/2" (80-115mm) in diameter
- Suitable for using with 1/2" square drive tool
- Coated with electro-black oxide finish for protection against rust

KT NO.	A		Ø Capacity		g	kg
	inch	inch	inch	mm		
9AE53-115	1/2	1/2	3-1/8~4-1/2	80~115	667	6 / 24



# Adjustable Oil Filter Pliers

## 9AE71

- Adjustable sizes from 60 to 140mm
- Serrated jaws



KT NO.	L		Ø Capacity mm	g	PC.
	inch	mm			
9AE71-90	9	230	60-90	357	12 / 72
9AE71-115	10	260	85-115	400	12 / 60
9AE71-140	14-1/2	365	100-140	897	1 / 20



# Locking Grip Oil Filter Pliers

## 9AE72

- Lock and grip oil filters or any irregular shaped object for quick tightening or removal
- Use for adjusting and fastening at any angle

KT NO.	L		Ø Capacity mm	g	PC.
	inch	mm			
9AE72	10	254	53-118	458	12 / 48



# Hose Pinch & Set

## 9AF11

- Adjustable edges ensure no damage to hose
- For hoses from Ø15 mm up to Ø60 mm
- Suitable for clamping radiator, heater, fuel, coolant and brake hoses



KT NO.	L		Ø Capacity mm	g	PC.
	inch	mm			
9AF11-15	6-1/8	155	15	44	12 / 48
9AF11-30	7-9/32	185	30	76	12 / 48
9AF11-60	10	253	60	125	12 / 48



## 9AF113

- Adjustable edges ensure no damage to hose
- For hoses from Ø15 mm up to Ø60 mm
- Suitable for clamping radiator, heater, fuel, coolant and brake hoses

g 245 PC. 12 / 48



9AF11-60



9AF11-30



9AF11-15

3 PC.





# Fuel Gauge & Pump Sender Collar Wrench

## 9AG11

- Use for removing and fitting fuel gauge sender collars to avoid damage
- 3 jaws to ensure high torque and no risk to damage plastic collar
- Use with 19mm wrench or socket
- Suitable for most collars from 89 to 170mm



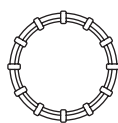
KT NO.	Ø mm	kg	/
9AG11	89~170	1.05	1 / 12

# Adjustable Fuel Tank Lid Remover

## 9AG13

- Use for removing and fitting fuel gauge sender collars to avoid damage
- Special jaws design, no risk to damage plastic collar
- Use with 3/8" DR.
- Suitable for collars from 122 ~ 199mm

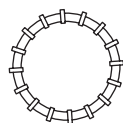
560 / 1 / 24



BMW



BENZ



VW . AUDI  
BENZ . BMW



# Diesel Injector Extractor Tool

## 9AN021

- Use to remove injectors without dismantling the engine
- Suitable for Bosch injectors in Mercedes-Benz CDI engines 2.1 L and 2.2 L
- Application : Benz for Vito, Sprinter, Viano, C class, E class, CLC, CLK

2 / 1 / 6

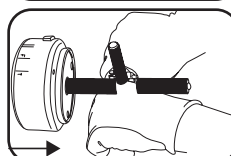
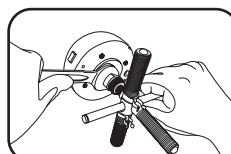


# 6 in 1 Fly Wheel Puller

## 9XAH1

- This tool is designed to offer 6 different sizes for the Flywheel wheel rings on motorcycles
- Sizes include: M20 x 1.5R / M14 x 1.5R / M16 x 1.5R / M18 x 1.5R / M24 x 1.0R / M27 x 1.0L

730 / 1 / 24

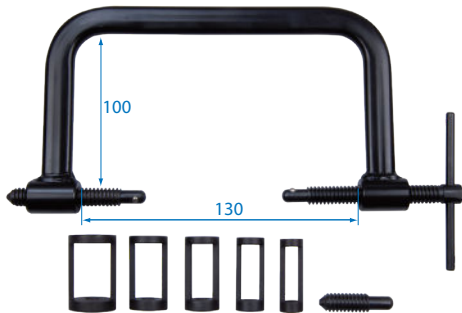


## Valve Spring Compressor Set

### 9AH31

- Use for compress of motorcycle or small engines valve spring
- Adapter size: 16, 19, 23, 25, 30mm
- Capacity: 130mm
- Throat depth: 100mm

 1.31  /  1 / 12



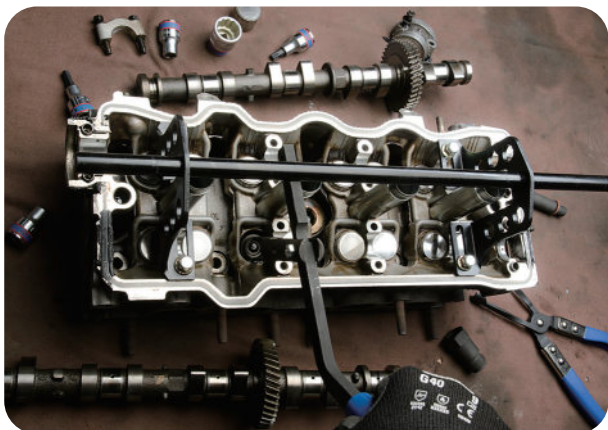
### 9AH12

- Complete service tool set for OHV & OHC petrol or diesel engines on Audi, Nissan, Toyota, Chrysler, Honda, Mazda, Mitsubishi, Saturn, Lexus, Hyundai, Infiniti, Porsche, Volvo, VW

 3.75  /  1 / 5



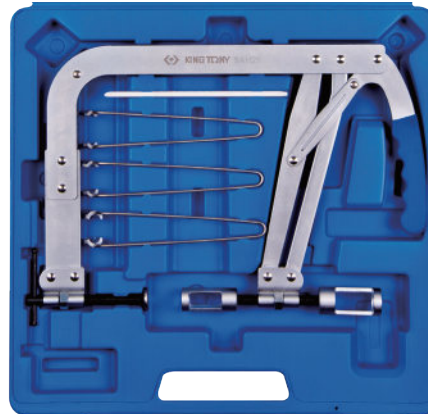
10 PC.



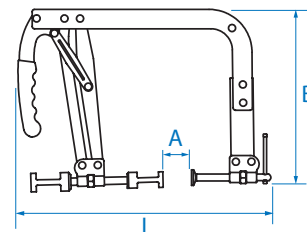
## Valve Spring Compressor Set




### 9AH025

- Suitable for large engines & diesel engines
- Capacity: 35~140mm
- Unique direct action compressor lever gives improved visibility & ease of using in areas of difficult access
- Dual size in 25 and 30mm adapter



5 PC.



KT NO.	A mm	B mm	L mm		 / 
9AH025	35~140	280	390	5	1 / 5



## Valve Lappers

### 9AH0311

- For hand lapping valves

 100  /  12 / 108

2 PC.



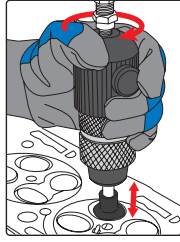
KT NO.	Diameter Cups Size	
9AH0311	1-1/8" (29mm) 5/8" (16mm)	1-3/8" (35mm) 13/16" (21mm)



# Heavy Duty Air Valve Lapper Set

## 9AH0321

- Design for operating in tough environments
- Adjustable speed regulator for precise control during operation
- Complete with rubber caps of 20, 30, 35, 45mm



5 PC.

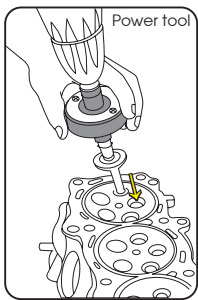
KT NO.	Free Speed R.P.M	Pistone Stroke inch mm	Overall Length inch mm	Air Inlet inch	Air Hose ID	Average Air Consumption CFM L/min	kg	Box
9AH0321	5600	1.1 29	9.0 228	1/4	3/8	2.5 71	1.82	1 / 10

# Oscillating Valve Lapping Tool

## 9AH0331

- Facilitates the easy insertion of valves
- Automatic change in direction
- Use with fine grinding paste
- Two different suction cups: 22mm / 28mm
- Working speed(Max):1000rpm

287 10 / 40

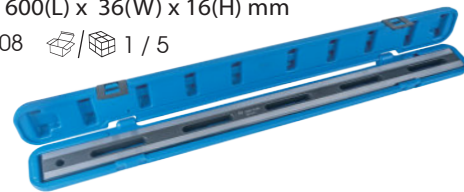


# Cylinder Head Surface Rectifier

## 9AH41

- Precise test for engine block and cylinder head when reassembling or overhauling an engine
- Work with a feeler gauge
- Suitable for 4 and 6 cylinder engine
- Refer to automotive manufacturer's service manual for the minimum clearance
- Size : 600(L) x 36(W) x 16(H) mm

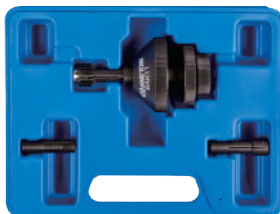
4.08 1 / 5



# Universal Clutch Aligner Set

## 9AK11

- Designed to make alignment and assembly of clutch
- Specially designed for those vehicles equipped with late-model front wheel drives without pilot bearing in flywheel



3 PC.

CONTENTS :

- 9AK11P03  
Ø 23 ~ 27mm
- 9AK11P02  
Ø 19 ~ 23mm
- 9AK11P01  
Ø 15.5 ~ 20mm

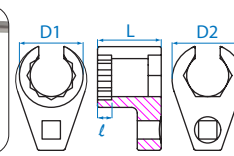
KT NO.	∅ mm	kg	Box
9AK11	15.5~27	0.60	1 / 20

# Oxygen Sensor Socket

## 9AJ3122

3/8"

- For installing and removing oxygen sensors
- Offset design for confined areas

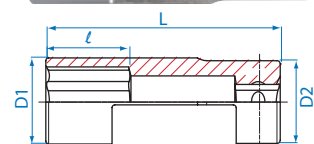


KT NO.	∅ mm	D1 mm	D2 mm	l mm	L mm	kg	Box
9AJ3122	22	34	38	8	34	178	1 / 100

## 9AJ4322

1/2"

- For oxygen sensors
- Featuring a slot for the connecting lead



KT NO.	∅ mm	D1 mm	D2 mm	l mm	L mm	kg	Box
9AJ4322	22	32	30	30	85	294	5 / 60



# Oxygen Sensor Socket Set

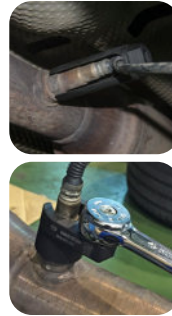
9AJ017

3/8"+1/2"

- 7 PC. special sockets for removing oxygen sensors
- Suitable for most vehicles : Volkswagen, BMW, PSA, Mercedes-Benz, Ford, etc...

2.33 kg / 1 / 10

KT NO.	Part.	Size	mm
9AJ4229		1/2"	29
9AJ3322		3/8"	22
9AJ4227		1/2"	27
9AJ3222		3/8"	22
9AJ3127		3/8"	27
9AJ4122		1/2"	22
9AJ3122A		3/8"	22

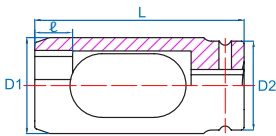


7 PC.

# Diesel injection Socket

9AN4128

- Suitable for Alfa Romeo, Chrysler, Land Rover, Rover, etc...

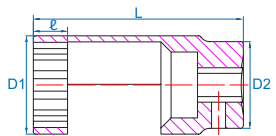


KT NO.	mm	D1 mm	D2 mm	l mm	L mm	g	5/60
9AN4128	28	38.1	35.2	15	83	339	5/60



9AN4227

- Suitable for BMW, Fiat, Ford, etc...



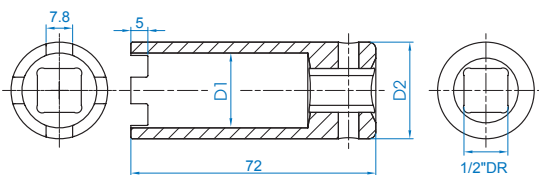
KT NO.	mm	D1 mm	D2 mm	l mm	L mm	g	5/60
9AN4227	27	36.5	32.2	12.7	78	209	5/60



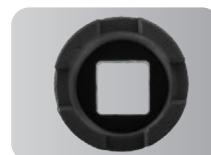
# Man & Benz Truck Diesel Injection Valve Socket

9AN43

- The tool is designed to remove and install diesel injection valve
- Application: MAN 422/403, BENZ Truck, SCANIA



KT NO.	D1 mm	D2 mm	Tooth	g	10 / 80
9AN43	22	28.4	4	181	10 / 80



# Self Adjusting Clutch Alignment Setting Tool Set

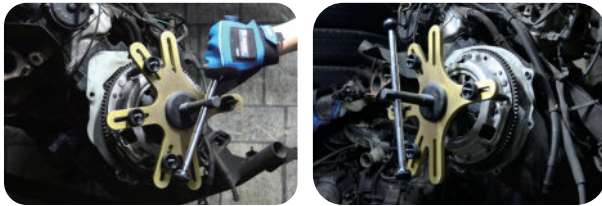
## 9AK21

- Prevent damage to system and to keep adapter ring in right position
- Necessary for pre-tensioning self adjusting clutches before removal or installation, avoiding clutch deformation
- Prevents plate distortion
- Suitable for most SAC (Self Adjusting Clutches 3 and 4 holes) equipped on vehicles of FIAT GROUP, VW, AUDI, BMW, Mercedes-Benz, VOLVO, OPEL, RENAULT etc

⚖️ 10.75 📦 1 / 2



38 PC.

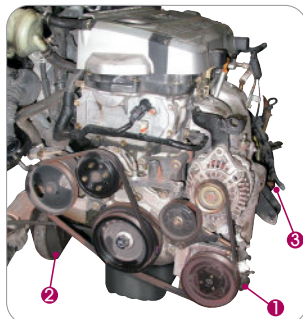
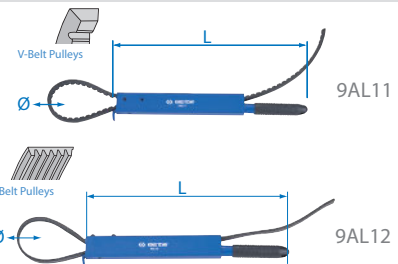


# Pulley Removing Wrench

## 9AL

- To lock the pulley during removing or assembling any type of pulley retaining bolt

KT NO.	inch	L mm	∅ mm	⚖️	📦
9AL11	14-3/8	365	40~140	540	12 / 36
9AL12	14-3/8	365	40~140	540	12 / 36



• Compressors



• Water pump pulley



• Alternator pump pulley



• Oil filter removal & assembly

# Universal Cooling Pump and Refiller Tool Set



**CAUTION** DO NOT open the radiator cap on a hot engine

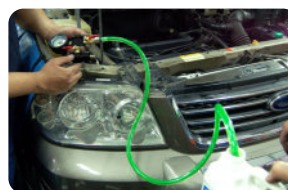
## 9AM01

- For testing leakage in radiator system
- Vacuum leakage testing and bubble-free refilling
- Special pick hooks to speed up replacement of pipes
- Quick-release coupling on each connections
- Rubber cones with functional diameter 17~40mm



7 PC.

KT NO.	Type	⚖️	📦
9AM010	Japan	3.40	1 / 5
9AM011	USA	3.40	1 / 5
9AM012	Europe	3.40	1 / 5



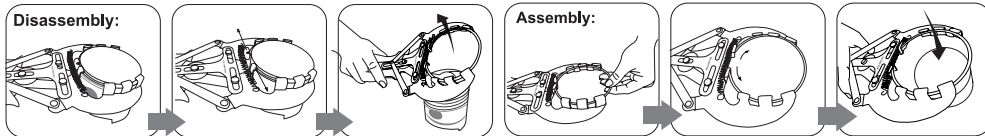
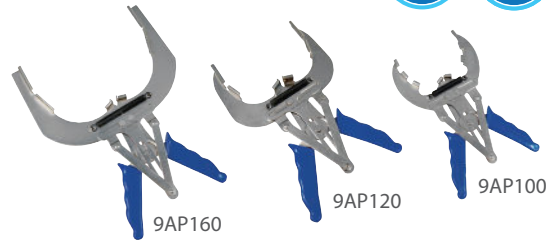
# Piston Ring Pliers

## 9AP

- For removing and mounting piston rings
- Nickel plated



KT NO.	L		Ø Capacity mm	Scales	Pcs/Box
	Inch	mm			
9AP100	8-11/32	212	50~100	323	12 / 48
9AP120	8-15/16	227	80~120	354	12 / 48
9AP160	9-61/64	253	110~160	458	12 / 48



# Drain Plug Removal Tool

## 9AR21

3/8"

- Use for removing and installing of the plastic oil drain plug on the latest VAG vehicle
- 3/8" DR and HEX 17 mm
- For VW, Audi, Skoda, Seat 1.2 / 1.4 / 1.8 / 2.0 TFSI oil drain plug and 1.6 / 2.0 TDI diesel engines cam cover plug

1.9kg 20 Pcs/Box 12 / 288



# Plastic Drain Plug

## 9AR29-S

- Suitable for VW, Audi, Skoda, Seat 1.2 / 1.4 / 1.8 / 2.0 TFSI oil drain plug and 1.6 / 2.0 TDI diesel engines cam cover plug
- Use with removal tool 9AR21
- OEM numbers 06L 103801

1.3kg 1 Pcs/Box 1 / 144



# Oil Drain Plug Key Set

## 9AR11

- Suitable for sump plugs on engine, gearbox and back axle
- Contents :  
Hex key socket : H8, H9, H10, H12, H13, H14, H17 mm  
Square socket : 5/16", 3/8", 7, 8, 10, 11, 12, 13, 14 mm  
Torx socket : T45  
Triangular socket : 10mm  
Spline (TAMPER) socket : M16  
Square drive socket : 10mm  
3/8" drive sliding T-handle

1.70kg 1 Pcs/Box 1 / 10



21 PC.

# Diesel Injector Puller Set

## 9AS11

- The set contains M8, M12, M14, M17 adaptor
- Suitable for various vehicles with Bosch and Lucas type diesel injectors
- Remove stubborn diesel injectors easily and quickly
- New M17 adaptor for GM Vauxhall / Opel injectors X20DTH / Y20DTH series engines

1.11kg 1 Pcs/Box 1 / 20



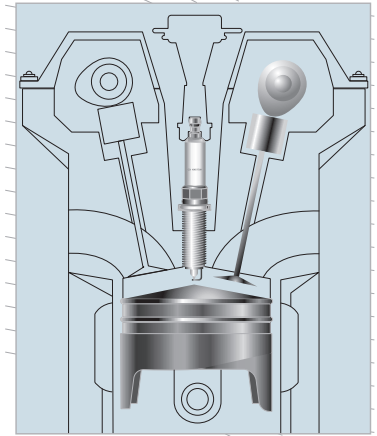


## Why spark plugs need torque tightening ?






1. Modern engines cylinder heads are made of aluminium alloy
2. A correct factory-set gaps can provide best performance

Cylinder head material	Thread diameter (mm)				
	M8	M10	M12	M14	M18
Cast iron	-	10~15 N·m	15~25 N·m	25~35 N·m	35~45 N·m
Aluminium	8~10 N·m	10~12 N·m	15~20 N·m	25~30 N·m	35~40 N·m






Suggested torque for spark plugs with gasket, always follow factory owner's manual



### 3/8" Spark Plug Sockets

3/8" 	Size (inch)	Size (mm)	Type		Socket L(mm)			
					63	70	90	250
	9 / 16	14	6 pt	Rubber	36B514			
			12 pt	Rubber	36B014		36C014	36D014
			12 pt	Metal clip	367014			
	5 / 8	16	6 pt	Rubber		363516		
			12 pt	Rubber		363016		
			6 pt	Magnet		366516		
			12 pt	Magnet		366016		
	23 / 32	18	12 pt	Rubber	36B018			
			6 pt	Metal clip	367518			
			12 pt	Metal clip	367018			
	13 / 16	20.8	6 pt	Rubber		363521		
			12 pt	Rubber		363021		
			6 pt	Magnet		366521		
			12 pt	Magnet		366021		

### 1/2" Spark Plug Sockets

1/2" 	Size (inch)	Size (mm)	Type		Socket L(mm)
					70
	9 / 16	14	6 pt	Rubber	463514RC
			12 pt	Rubber	463014RC
	5 / 8	16	6 pt	Rubber	463516RC
			12 pt	Rubber	463016RC
			6 pt	Magnet	466516C
			12 pt	Magnet	466016
	23 / 32	18	6 pt	Magnet	
	13 / 16	20.8	6 pt	Rubber	463521RC
			12 pt	Rubber	463021RC
			6 pt	Magnet	466521C
			12 pt	Magnet	466021


### Torque Wrench & Accessory



KT NO.	Gear Teeth	Square Drive	Torque Range in-lb / ft-lb	Incr.	Torque Range N·m	Incr.
34362-1CG	24	3/8"	40~200 in-lb	1 in-lb	5.1~22.0 N·m	0.12 N·m
34362-2CG	32	3/8"	15~80 ft-lb	0.5 ft-lb	23.7~105.1 N·m	0.7 N·m

KT NO.	Gear Teeth	Square Drive	Torque Range N·m	Incr.
34362-2DG	32	3/8"	20~100 N·m	0.5 N·m
34362-3DG	32	3/8"	10~60 N·m	0.5 N·m

KT NO.	Square Drive	Torque Range N·m	Torque Range ft-lb	Total Length kgf·m
34307-1A	3/8"	27~135 N·m	19.9~99.6 ft-lb	2.75~13.76 kgf·m

1/2" drive (M)	3/8" drive (F)	KT NO.	Spec.
		3814	3/8" F x 1/2" M

## Spark Plug Rethreader Set

**11305SQ**

- Spark plug rethreader set is used for rethreading damaged spark plug threads in aluminum cylinder heads



KT NO.	Size mm	Type inch	g	kg
11305SQ	14	3/8, 7/16, 1/2, 3/4	13	12 / 72

## Double Size "L" Handle

**1586**

- Material : Chrome vanadium alloy steel
- For oil plug



KT NO.	Overall length		Size		g	kg
	inch	mm	inch	mm		
1586-09	9	230	5/16 x 3/8	8 x 10	320	6 / 48

**1596**

- Material : Chrome vanadium alloy steel
- For oil plug



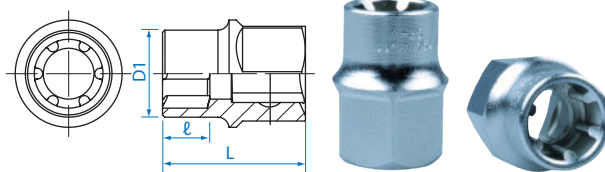
KT NO.	Overall length		Size		g	kg
	inch	mm	inch	mm		
1596-09	9	230	3/8	10	290	6 / 48

## Ribe Socket M10S

**9AW4911**

1/2"

- 6 points
- Use for replacing and removing idler pulley center screw on TOYOTA ALTIS
- 1/2" DR. socket ribe M10S for TOYOTA



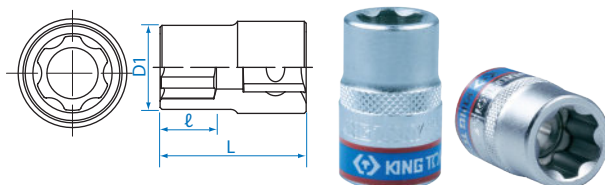
KT NO.	Size	D1 mm	ℓ mm	L mm	g	kg
9AW4911	M10S	19	10	33.8	16	10 / 200

## Ribe Socket M12S

**9AW4901**

1/2"

- 6 points
- Use for replacing and removing engine head screw and flywheel center screw on NISSAN models
- 1/2" DR. socket ribe M12S for NISSAN



KT NO.	Size	D1 mm	ℓ mm	L mm	g	kg
9AW4901	M12S	22	14	38	15	10 / 200

## Bearing Race and Seal Driver Set

**9BA11**

- Quick and easy to insert bearing race
- Collars fit most standard wheel bearing sizes
- Helps reduce damage to both race and axle housing
- 9 collar sizes:

- 1.574"/40mm
- 1.732"/44mm
- 1.968"/50mm
- 2.322"/59mm
- 2.480"/63mm
- 2.559"/65mm
- 2.834"/72mm
- 2.992"/76mm
- 3.189"/81mm

1.8 kg 1 / 10



10 PC.



# Universal Bearing Ring Puller



## 9BA41

- Three jaws with the thin edge provide an equal grip tension to avoid any slide or tilt
- Suitable for all kind of bearing and sleeves diameter 10 to 125mm
- Applicable : For universal vehicles

KT NO.	Ø Capacity mm	Kg	Box / Carton
9BA41	10~125mm	3.6	1 / 4

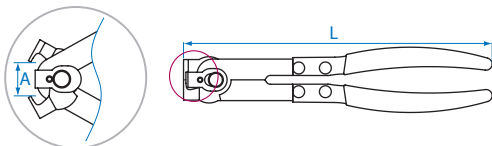


Hose Clamp	KT Item	Suitable Car Brand
 CV Boot Clamp	9BB11 	VW, Audi, BMW, Ford, GM, Opel, Nissan, Mercedes-Benz, Mazda, Honda, Chrysler, Citroen, Seat
 Ear Clamp	9BB12 	
 CV Boot Clamp	9BB31 	

## Ear Hose Clamp Pliers

### 9BB11

- Use to remove and install ear clamp
- Special hook jaw easy to hold clamp in position
- Suitable for CV joint boot, vacuum lines, and cooling system

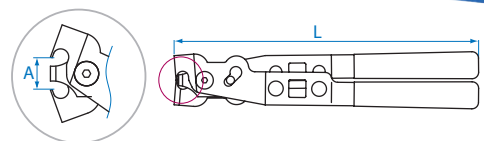
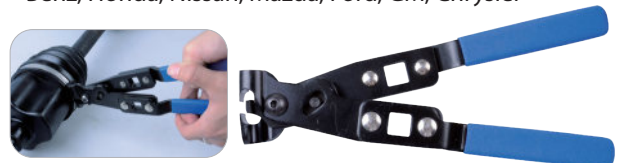


KT NO.	inch	L mm	A max mm	Kg	Box / Carton
9BB11	10	260	22.5	364	12 / 48

## CV Boot Clamp Pliers

### 9BB12

- Use to remove and install stainless CV boot clamp
- Can be used with 1/2" flexible handle bar or torque wrench
- Suitable for Audi, Opel, Citroen, SEAT, BMW, Mercedes-Benz, Honda, Nissan, Mazda, Ford, GM, Chrysler



KT NO.	inch	L mm	A max mm	Kg	Box / Carton
9BB12	9-1/2	235	12	512.4	6 / 36

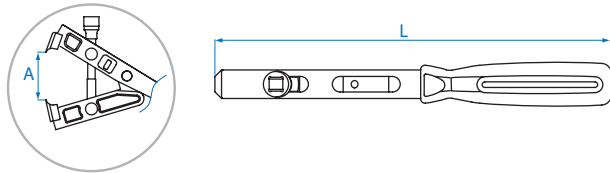




## CV Boot Clamp Pliers with Socket

**9BB13**

- Used to remove and install stainless CV boot clamp
- Can be used with 3/8" flexible handle bar or torque wrench
- Suitable for Audi, Opel, Citroen, SEAT, BMW, Mercedes-Benz, Honda, Nissan, Mazda, Ford, GM, Chrysler

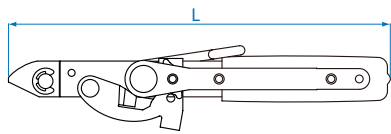


KT NO.	inch	L mm	A max mm	g	Box / Carton
9BB13	11	278	45	888	6 / 24

## CV Boot Clamp Installer

**9BB31**

- Used to cut and install clamp with built-in cutting arm
- Includes locking device and ratchet function
- Suitable for general vehicle types



Lock



Cut



KT NO.	inch	L mm	g	Box / Carton
9BB31	6-1/2	124	347	12 / 36

## CV Joint Assembly Removal Tool

**9BB42**

- Separates the CV Joint from the axle without removing the drive shaft
- Reduces the risk of damaging the transmission, or the CV joint
- Multiple hole pattern allows adjustment to different depths
- Suitable for most vehicles equipped with Constant Velocity U-joints

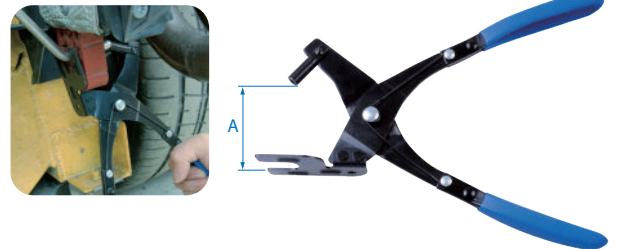
1.77 kg / 1 / 10



## Exhaust Pipe Hanger

**9BP11**

- Used to remove rubber holders from exhaust brackets
- Suitable for general vehicle types



KT NO.	inch	L mm	A max mm	g	Box / Carton
9BP11	10	250	60	339	12 / 36

## Exhaust Clamp Pliers

**9BP21**

- Used to remove and install exhaust clamps
- Include spring and locking mechanism
- Suitable for Citroen/Peugeot, Renault and prizing open types of exhaust clamps



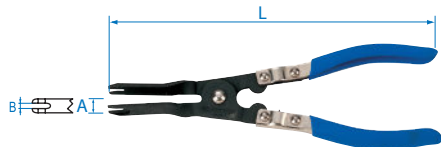
KT NO.	inch	L mm	A max mm	g	Box / Carton
9BP21	12	300	60	496	12 / 36



## Handbrake Cable Pliers

9BC11

- For hand brake cable removal and replacing
- Suitable for Audi, BMW, Citroen, Nissan, Peugeot, Seat, Renault, Rover, etc



KT NO.	inch	L mm	A max mm	B mm		
9BC11	9	230	60	5	198	12 / 48

## Disc Brake Piston Separator

9BC21

- Heavy duty drop forged construction
- Fits in brake caliper to push back pistons for new brake pads installation

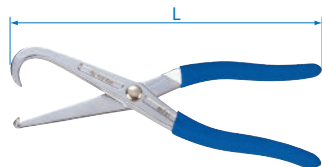
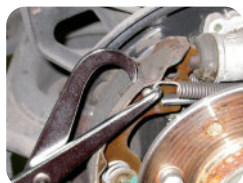


KT NO.	inch	Max capacity mm		
9BC21	2-7/8	75	1130	1 / 20

## Drum Brake Spring Pliers

9BC121

- Designed to remove and replace brake retaining spring on drum brakes



KT NO.	inch	L mm		
9BC121	8-1/2	215	305	6 / 72

## Universal Disc Brake Wind-Back Tool Set

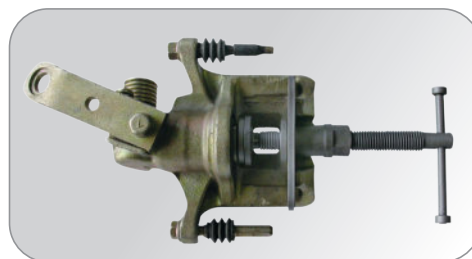
9BC22

- Magnetic socket adapter
- Including 9 adapters for brake assemblage
- For rotating pistons back into caliper to provide clearance for new pads
- Prevents damage to the piston and boot
- Suitable for VW, Audi, Ford, Nissan, Alfa romeo, Rover, Saab, Subaru, Toyota, Jaguar, and most of the general motors

2.87 1 / 6



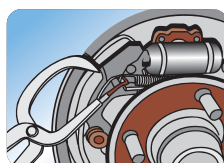
11 PC.



## HGV Drum Brake Spring Pliers

9BC124

- Designed to remove and replace brake retaining spring on drum brakes
- Extra strong version for HGV air or hydraulic drum brakes



KT NO.	inch	L mm		
9BC124	20-5/8	525	1250	3 / 6

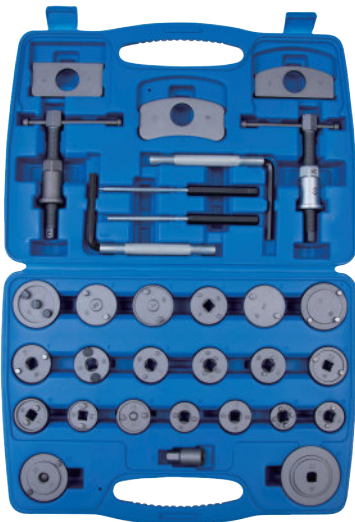


# Universal Disc Brake Wind-Back Tool Set

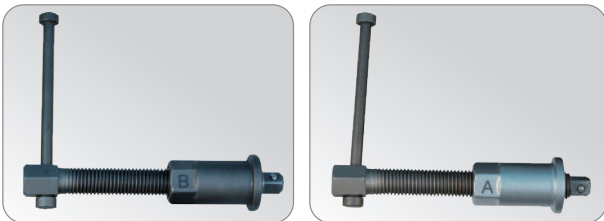
## 9BC23

- For rotating pistons back into caliper to provide clearance for new pads
- Prevents damage to the piston and boot
- Suitable for BMW, Ford, VW, Audi, Porsche, Saab, Opel, Volvo, Jaguar, Citroen, Peugeot, Renault, Lauxhall, Lancia, Alfa romeo, Fiat, Nissan, Honda, Subaru, Toyota, Mitsubishi
- Contents:
  - 21 PC. Adapters for brake assemblage
  - 3 PC. Backing pads
  - 2 PC. Rotating caliper with 3/8" DR. (right/left side threaded)
  - 2 PC. Hex key: 7, 8mm
  - 2 PC. Pin punch : Ø 5.5, 6mm
  - 1 PC. 3/8" DR. x 12mm hex key socket

⚖️ 4.87 📦 1 / 4



31 PC.



# Brake Caliper Piston Tool

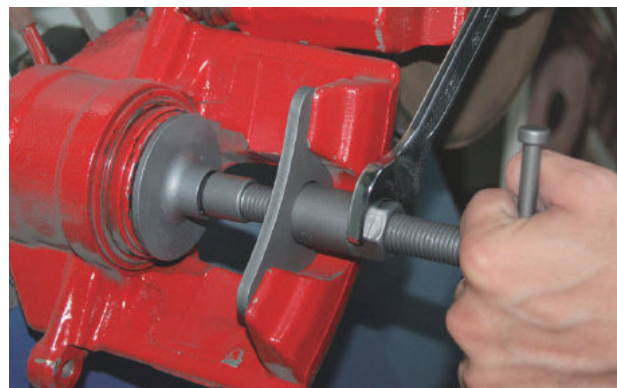
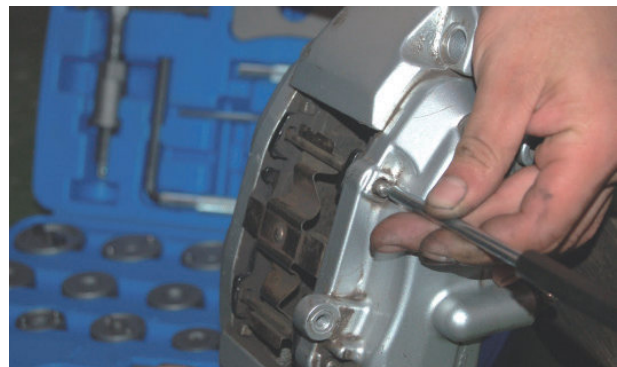
## 9BC24A

- For rotating pistons back into caliper to provide clearance for new pads
- Fast and easy to use, prevents damage to the piston and boot
- Fits most European and Japanese vehicles



3 PC.

KT NO.	Capacity		⚖️	📦
	A(mm)	B(mm)		
9BC24A	22	33	700	5 / 30



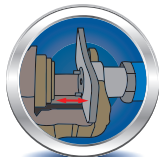


## Pneumatic Disc Brake Wind-Back Tool

### 9BC251A01

- Designed to make disc brake services faster and energy saving
- Tool can be turned left and right ward - suitable for regular and reverse-threaded pistons
- Pneumatic powered tool is able to wind pistons back simply pressing a button

1.35 1 / 10



Increase the use of space



Magnetic

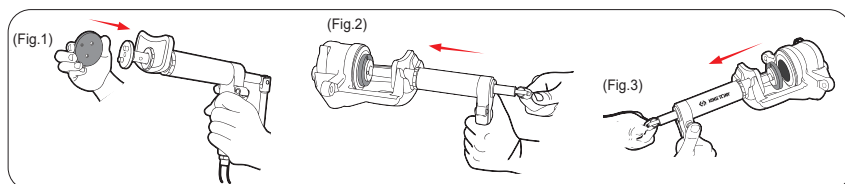


## Pneumatic Disc Brake Wind-back Tool Set

### 9BC251

- Air operated ram applies pressure to caliper piston, while the handle is rotated by hand
- Easy to use- works on standard workshop air supply
- Reversible- works on both RH and LH applications
- Can be used on wind back and push back piston
- Supplied with adaptor, which covers a wide range of popular vehicles
- Full range of additional specialist adaptors available
- Suitable for Mercedes-Benz, BMW, Audi, VW, Opel, Volvo, Jaguar, Citroen, Fiat, Peugeot, Alfa romeo, Saab, Lancia, Toyota, Honda, Nissan, Mitsubishi, Isuzu, Mazda, Subaru, GM, Ford, Rover

3.20 1 / 5



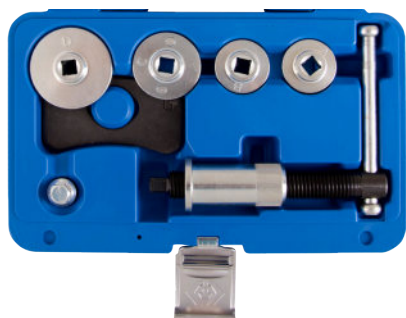
18 PC.

## Universal Disc Brake Wind-Back Tool Set

### 9BC26

- Prevents damage to the piston and boot
- For rotating pistons back into caliper to provide clearance for new pads
- Suitable for FORD, ROVER, HONDA, Mercedes-Benz, TOYOTA, VW, AUDI, NISSAN, BMW, MAZDA, MITSUBISHI

1.38 1 / 12



7 PC.

## Brake Bleeder Valve Collection Bottle

### 9BC32

- It contains a brake oil check valve, a silicone hose, and a universal rubber adapter that is compatible with most vehicles
- Complete with a metal hanging hook
- Capacity : 1000 ml

420 1 / 12



CAUTION

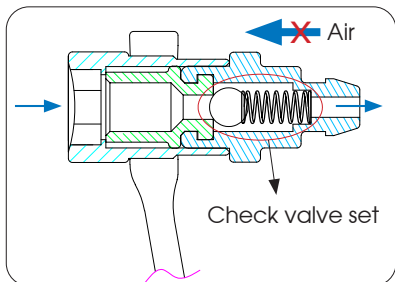
Always keep the tool clean after using

# Brake Bleeder Wrench Set

## 9BC5001MR

- Wrench size : 7, 8, 9, 10, 11mm
- Use on any vehicle, SUV, light truck or motorcycle brake caliper
- Combine wrench & socket to make loosening and tightening easily
- Ideal for bleeding brake system and hydraulic clutch system without removing the wheels
- High quality material internal seal to upgrade durability
- Silicone tube has the characteristics of acid and alkali proof, corrosion resistance, wear resistance, high and low temperature resistance
- Brake bleeder socket wrench prevents air backflow into brake system

6  
PC.



Blow case size (mm) :  
260 x 160 x 60 (0.08 cuft)



### Contents

0.73 kg / 1 / 10

	9BC5107M	7mm
	9BC5108M	8mm
	9BC5109M	9mm
	9BC5110M	10mm
	9BC5111M	11mm
	9BC32P021	

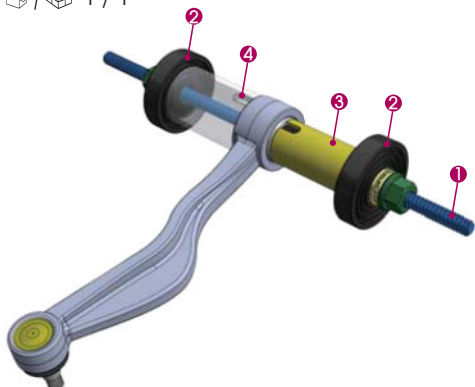
# Universal Sleeve Removal and Installation Set

## 9BD101

- Can easily extract and draw in bearings, bushes, seals with this comprehensive tools
- Reduces the possibility of damaging the bearing/ suspension housings
- Tool doesn't designed to be used with the impact wrench

26  
PC.

18.0 kg / 1 / 1



### No.

1	M10 x P1.5 spindle and two fixing nuts with bearing
1	M12 x P2.0 spindle and two fixing nuts with bearing
1	M14 x P2.0 spindle and two fixing nuts with bearing
1	M16 x P2.5 spindle and two fixing nuts with bearing
2	Step discs with A and B sides (2 pcs)
3	Golden sockets (11 pcs) marked with A
4	Silver socket (9 pcs) marked with B

### Socket sizes OD x ID mm

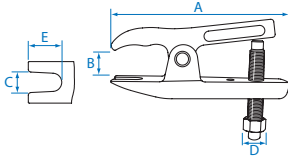
A	44 x 34 mm, 46 x 36 mm, 54 x 44 mm, 56 x 46 mm, 58 x 48 mm 66 x 56 mm, 68 x 58 mm, 70 x 60 mm, 78 x 68 mm, 80 x 70 mm 82 x 72 mm
B	48 x 38 mm, 50 x 40 mm, 52 x 42 mm, 60 x 50 mm, 62 x 52 mm 64 x 54 mm, 72 x 62 mm, 74 x 64 mm, 76 x 66 mm



# Ball Joint Extractor

## 9BE11

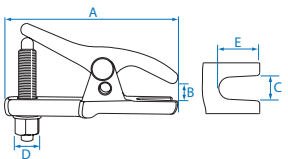
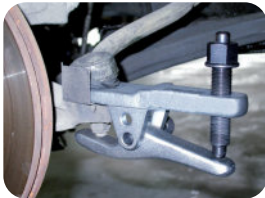
- Drop forged steel body



KT NO.	A mm	B(mm) Max	Min	C mm	D mm	E mm	⚖️	📦
9BE11	160	50	12	19	19	25	1080	1 / 12

## 9BE21

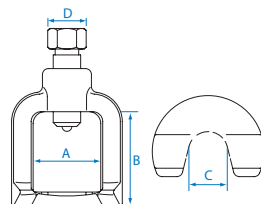
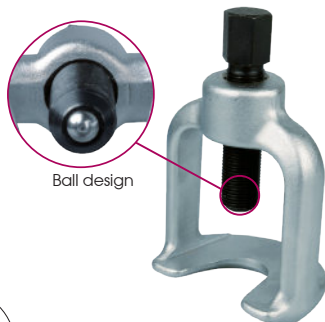
- Special design 2 stage operation, suits most cars and light trucks ball joints in steering & suspension
- Suitable for most European and Japanese vehicles



KT NO.	A mm	B(mm) Max	Min	C mm	D mm	E mm	⚖️	📦
9BE21	160	50	12	20	22	32	1270	1 / 12

## 9BE4

- For quick and easy separation of ball joint pivots of pitman arms, steering tie rods, ball joints, etc
- Suitable for general trucks and vehicles
- For better safety operation & avoid damage



KT NO.	A mm	B mm	C mm	D mm	⚖️	📦
9BE41	36	40	18	17	364	1 / 36
9BE42	46	48	23	17	558	1 / 36
9BE43	62	62	29	19	925	1 / 12
9BE44	64	76	40	24	1658	1 / 12
9BE45	77	100	46	24	1858	1 / 12

# Impact Ball Joint Separator

## 9HBE4

3/4"

- Use for quick separation of ball joint for heavy goods vehicle
- Extra deep design for tight space
- Use with impact tools



## Heavy Goods Vehicle Ball Joint Separator

Size (mm)	Application
30	BMW (E39), Benz(W203/W210/W211/W220/W221), Mitsubishi Delica, Canter, Toyota Dyna etc...
39	"4 tons and European truck: Scania, Benz, MAN 414 drag link and Hino etc..."
47	"8.8 tons~10.5 tons truck: Hino, Isuzu, Nissan, UD, Fuso etc..."
58	Scania etc...
62	"15 tons~35 tons: Hino, Isuzu, Nissan, Fuso truck and bus etc..."
67	MAN(FE410A) etc...



KT NO.	A mm	B mm	⚖️	📦
9HBE4-30	30	95	2320	6 / 6
9HBE4-39	39	95	2320	6 / 6
9HBE4-47	47	95	2320	6 / 6



KT NO.	A mm	B mm	⚖️	📦
9HBE4-58	58	120	4200	6 / 6
9HBE4-62	62	120	4366	6 / 6
9HBE4-67	67	120	4200	6 / 6



# Hydraulic HGV Ball Joint Separator & Set

## 9HBE81

- Use for separating ball joint for heavy goods vehicles
- Design for operating manually or by 12 tons hydraulic ram
- Strengthen fork and lever for greater force to be applied

7.00  1 / 2



capacity

Jaw opening 70mm  
Jaw width 36mm



## 9HBE083

- Use for separating ball joint for heavy goods vehicles
- Design for operating manually or by 12 tons hydraulic ram
- Interchangeable jaws width : 30 / 34 / 40mm

8.50  1 / 2



Jaw Opening size :  
30, 34, 40 mm





## Track Rod End Remover & Installer

### 9BE51

- Removes and replaces the axial joint
- Hex part on the end of tool : works with 27 mm wrench or 1/2" DR. ratchet



KT NO.	inch	L mm	∅ Capacity mm		
<b>new</b> 9BE51	15-3/4	400	28~35	1635	1 / 10
9BE52	15-3/4	400	35~45	2140	1 / 10

## Multi-Purpose Inner Tie Rod Tool

### 9BE62

### 9BE63

1/2"

- Use for replace inner tie rod ends without removing the rack and pinion
- Internal serrated design to make grip tight
- Use with ratchets and extensions by 1/2" DR.
- Suitable for most vehicles & trucks



KT NO.	inch	L mm	∅ Capacity mm		
9BE62	3-1/4	81.50	33~42	370	24
9BE63	3-7/16	87.56	42~50	422	24



## Universal Adjustable Wheel Bearing Lock Nut Wrench

9HBN01

3/4"

- For disassemble and assemble vario nut and cap
- Extra slim design suitable to reach narrow space for special nut
- Use with 3/4" DR. tools and suggest to lock by torque wrench
- Application for 6PT, 8PT and round nut
- Adjustable open jaw 50~150mm

Contents:

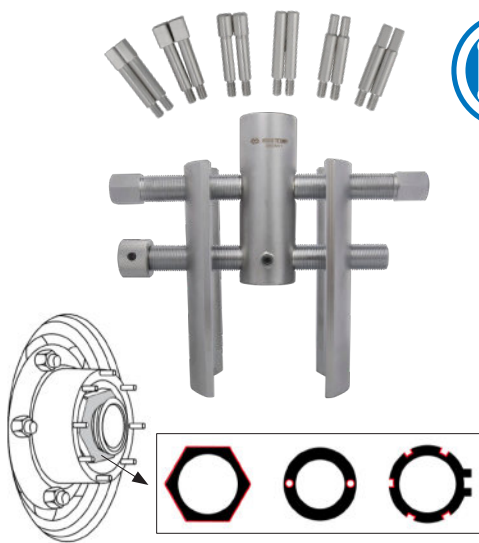
3 pairs round adapter for round nut : 6mm, 8mm, 10mm

3 pairs square adapter for round nut : 1/4", 5/16", 3/8"

3.68 kg / 1 / 5



13 PC.



## Drop Forged Coil Spring Compressor Set

9BF11

9BF21

- Drop forged SCM435 jaws & leaded screws
- Both 21mm 6-point sockets and 1/2" wrench are available
- Suitable for limited space under wheel arch

6 PC.



9BF11



9BF21



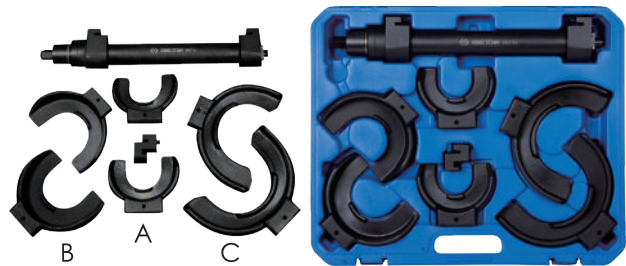
KT NO.	L mm	6-point socket	Wrench mm	Weight kg	Box / Carton
9BF11	85 / 370	1/2"	21	2.40	1 / 6
9BF21	85 / 270	1/2"	21	3.36	1 / 6

## Coil Spring Compressor Set

9BF31

- Developed for "Macpherson" suspensions, using a range of 3 sets interchangeable monobloc forks
- Spring specification / use :
  - A : Ø80~115mm
  - B : Ø110~150mm
  - C : Ø140~195mm
- Suitable for BMW, Ford, VW, Audi, Porsche, Saab, Opel, Volvo, Nissan, Honda, Mitsubishi, Subaru, Toyota

8 PC.



KT NO.	L mm	Capacity mm	Weight kg	Box / Carton
9BF31	460	40~300	15.00	1 / 1

## Steering Wheel Puller Set

9BG11

- Easy to remove and install steering wheel for cars and trucks
- 2 sets 17mm hex head puller with pointed and flat cups
- 4 sets side bolts
- Small plate Dia. :
  - 1"~3-11/16" 25~95mm
- Large plate Dia. :
  - 1-1/8"~5" 28~125mm
- Side bolts size :
  - 3 PC. 5/16" UNC x 3-1/2" long puller bolts
  - 3 PC. 5/16" UNF x 3" long puller bolts
  - 3 PC. 3/8" UNC x 3" long puller bolts
  - 3 PC. 3/8" UNF x 3" long puller bolts

4.10 kg / 1 / 6



18 PC.

# Coil Spring Compressor Set

## 9BF33

- Suitable for BMW, Audi, Chevrolet, Citroen, Fiat, Ford, Honda, Hyundai, Kia, Lancia, Mazda, Benz, Mitsubishi, Nissan, Opel, Peugeot, Renault, Seat, Tesla, Toyota, Volvo
- Can be operated with impact wrench
- Spring specification/use: 75~155 mm
- Stroke: 106~293 mm
- Max load: 6,400 kgf-m (62,765 N-m)

3 PC.

kg 5.5 1 / 4



• Place upper and lower discs on spring



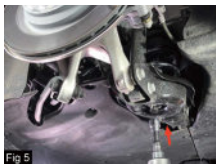
• Insert the main tool body into the spring



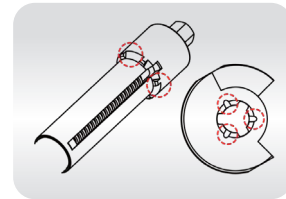
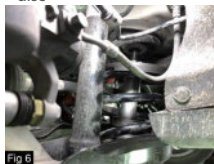
• Insert through the disc and make a half turn to connect the tool and disc



• Turn the hex nut on the main tool body lower end to fix all parts



• Use an air/impact wrench to compress the spring



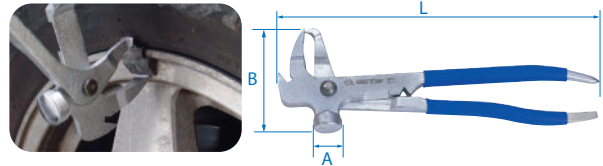
• Special pins on tool body to mesh with grooves on discs to create a secure connection

# Wheel Balancing Weight Tool

## 9BK11

- Ideal for fitting and removing wheel balance weights

KT NO.	inch	L mm	A mm	B mm		
9BK11	10	250	22	86	420	10 / 50



# Tire Lever

## 9BK41

## 9BK43

- Straight pattern with profiled shank



9BK41



9BK43



KT NO.	inch	L mm	A mm	B mm		
9BK41-20	8	200	21.6	11	104	10 / 50
9BK41-28	11	280	22.7	13.5	239	10 / 50
9BK41-38	15	380	24.5	13.5	358	10 / 50
9BK41-53	21	530	28	12	930	10 / 20
9BK41-65	25	650	30	15	1075	10 / 20
9BK43-65	25	650	30	15	1100	10 / 20

# Tire Valve Installer

## 9BK31

## 9BK32

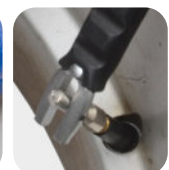
- Use for replacement and fitting tire valves
- Composite body prevents damage onto alloy wheel
- 180 degree pivoting head
- 310mm plastic handle



9BK31 118 12 / 144



9BK32 353 6 / 48



• For removal & installing valve cores

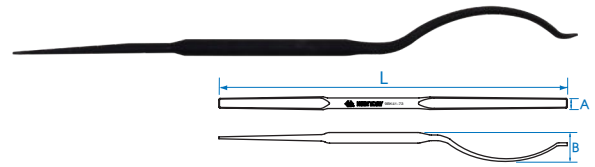


# Tire Lever

## 9BK41-73

- To install and remove the tire from wheel rim
- Precision forged with greater leverage design
- Special design for 17" to 22.5" tire

KT NO.	inch	L mm	A (mm)	B (mm)		
9BK41-73	28-3/4	730	22	64.4	1618	1 / 10

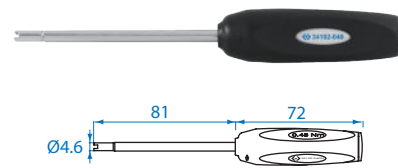


# Tire Valve Core Torque Tool / Installer Torque Screwdriver

## 34102-040M

- Preset torque setting in order to remove & install valve cores correctly
- Prevent overloaded torque to cause damage on valves sensor cores
- Preset torque is 0.45 N·m (4.0 lbf·in)
- Ergonomics design with PP handle

62 20 / 100

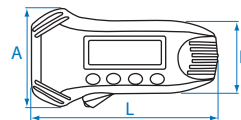


# Digital Tire Gauge

## 9BM120

- Tyre pressure gauge specification :  
Unit range :  
0-100 psi / 0~7.0 bar / 0~7.0 Kgf-cm<sup>2</sup> / 0~700 kpa  
Display resolution :  
0.1 psi / 0.01 bar / 0.01 Kgf-cm<sup>2</sup> / 0.01 kpa
- Tread depth gauge specification :  
Unit range : 0-22mm / .8"(Gauge : mm / inch)  
Display resolution : 0.01mm / .001"

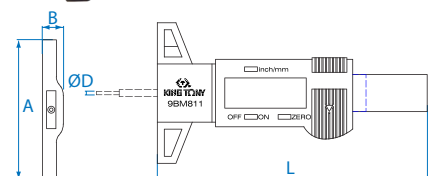
KT NO.	A mm	B mm	L mm		
9BM120	53	38	101	53	12 / 96



# Digital Tire Tread Depth Gauge

## 9BM811

- Digital large LED LCD screen display
- Material : ABS Plastic, stainless steel needle
- One-touch switch between Metric / Inch system interchange
- Zero setting at any position
- Mini size, hand-held and portable
- Unit range : 0-25.4mm / 0-1"
- Display resolution : 0.01mm / .0005"



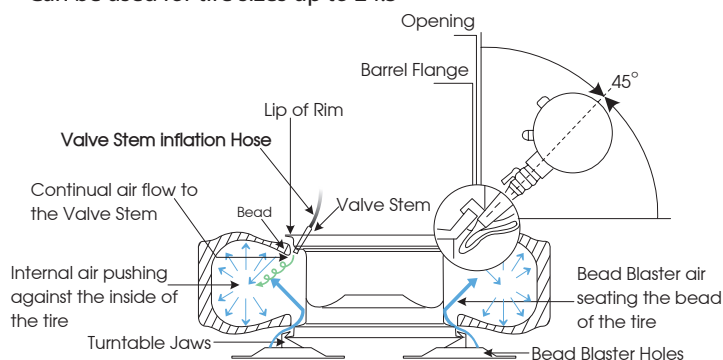
KT NO.	ØD mm	A mm	B mm	L mm		
9BM811	1.5	60	9	116	39.6	25 / 100



# Tire Air Bead Seater

## 9HBL

- Capacity : 5 Gallon
- Used for seating tires for cars, trucks, ATVs, tractors
- Air gauge for easy and accurate air volume readings
- Can be used for tire sizes up to 24.5"



Lever action ball valve discharges the air to blast the air cavity of the tire and seat the beads quickly

KT NO.	Type	Capacity	Max. pressure		
9HBL11-05	America	5 gallon	145 PSI	11.0	1
9HBL12-05	Europe	(20 L)	(10 bar)		

# 3-In-1 Inflator

## 9BM

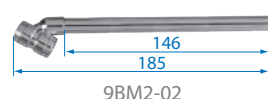
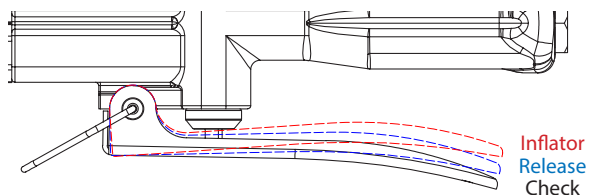
- Diaphragm pressure gauge
- Accuracy : ANSI B40.100 ± 3% ~ ± 2% ~ ± 3%
- Special rubber housing protects manometer against light impacts
- 3 functions(check, release, inflator) all together on the press handle
- Variable trigger, two control position inflate / deflate leve
- Flexible 400MM high pressure rubber hose with clip-on air tire chuck
- Pressure range : 0-160 PSI (9BM21) / 0-220 PSI (9BM22)
- Built in hang-up hook allows easy storage



9BM2110  
9BM2111  
9BM2210  
9BM2211



9BM2210A  
9BM2211A



9BM2-01

9BM2-02

KT NO.	Pressure range (Psi)	Air Inlet (BSPT/NPT)	L (mm) L1	L2	Air hose (ID)		
9BM2110	160	1/4"-19 BSPT	Ø13 x 400	180	3/8"	500	1 / 12
9BM2111	160	1/4"-18 NPT	Ø13 x 400	180	3/8"	500	1 / 12
9BM2210	220	1/4" BSPT	Ø13 x 400	180	3/8"	520	1 / 12
9BM2211	220	1/4" NPT	Ø13 x 400	180	3/8"	520	1 / 12
9BM2210A	220	1/4" BSPT	Ø13 x 400	180	3/8"	600	1 / 12
9BM2211A	220	1/4" NPT	Ø13 x 400	180	3/8"	600	1 / 12
9BM2-01	(included in all 9BM series)		20	-	-	25	-
9BM2-02	(included in 9BM2210A & 11A only)		185	-	-	105	-



# Wheel Lock Screw Socket Set

## 9BW0120

VW

- Used to permit servicing of customer vehicles, even lose the key
- Applicable for installing and removing locks of most VW models
- Chrome molybdenum, alloy steel chrome plated
- Work with 17mm hex tool
- Contents :  
#521,#522,#523,#524,#525,#526,#527,#528,#529,#530,#531,#532,#533,#534,#535,#536,#537,#538,#539,#540

2.9 / 1 / 5

20  
PC.

521	522	523	524	525
526	527	528	529	530
531	532	533	534	535
536	537	538	539	540



## 9BW0220

BMW

- Used to permit servicing of customer vehicles, even lose the key
- Applicable for installing and removing locks of most BMW models
- Chrome molybdenum, alloy steel chrome plated
- Work with 17mm hex tool
- Contents :  
#041,#042,#043,#044,#045,#046,#047,#048,#049,#050,#051,#052,#053,#054,#055,#056,#057,#058,#059,#060

1.94 / 1 / 5

20  
PC.

041	042	043	044	045
046	047	048	049	050
051	052	053	054	055
056	057	058	059	060



## 9BW0221

BMW

- Used to permit servicing of customer vehicles, even lose the key
- Applicable for installing and removing locks of most BMW models
- Chrome molybdenum, alloy steel chrome plated
- Contents :  
#30/13PT, #31/15PT, #32/16PT, #33/17PT, #34/18PT, #35/19PT, #36/20PT, #37/21PT, #38/22PT, #40/23PT, #13/16PT, #12/14PT, #11/15PT, #16/10PT, #15/11PT, #14/12PT, #19/8PT, #18/13PT, #17/7PT, #20/9PT, #494517M (1/2"DR. x 17mm)

1.48 / 1 / 10

21  
PC.

11/15PT	12/14PT	13/16PT	14/12PT	15/11PT
16/10PT	17/7PT	18/13PT	19/8PT	20/9PT
30/13PT	31/15PT	32/16PT	33/17PT	34/18PT
35/19PT	36/20PT	37/21PT	38/22PT	40/23PT

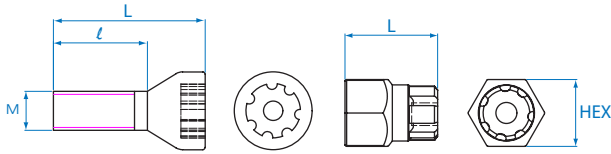




# Locking Nuts & Bolt

## WSB01

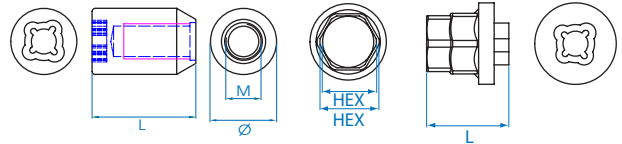
▪ Long Bolt



KT NO.	HEX	Thread M	ℓ mm	L mm
WSB012802-5	-	M12 x 1.5	28	47
	13/16	-	-	29
WSB013006-5	-	M14 x 1.5	30	49
	13/16	-	-	29

## WSN04

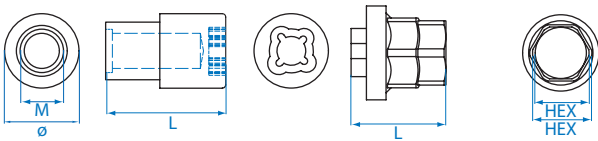
▪ Long Lock Nut



KT NO.	HEX	∅	Thread M	L mm
WSN043601-5	-	23	M12 x 1.25	36
	19 x 13/16	-	-	28
WSN043602-5	-	23	M12 x 1.5	36
	19 x 13/16	-	-	28

## WSN14

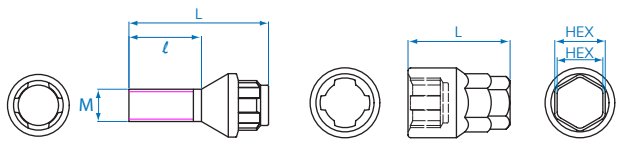
▪ Lock Nut



KT NO.	HEX	∅	Thread M	L mm
WSN143601-5	-	23	M12 x 1.25	36
	19 x 13/16	-	-	28
WSN143602-5	-	23	M12 x 1.5	36
	19 x 13/16	-	-	28

## WSB02

▪ Cone Seat Bolt Lock



KT NO.	HEX	Thread M	ℓ mm	L mm
WSB022701-5	-	M12 x 1.25	27.5	52.5
	17 x 3/4	-	-	38

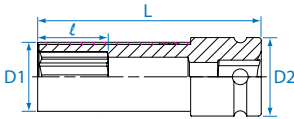





- Material - chrome molybdenum alloy steel
- Finishing - phosphate sunk

## Impact Socket for Hybrid Wheel Bolts Mercedes-Benz


**9BW4501**  1/2"

- Durable outer sleeve protects polished wheels and lug nut
- Suitable for Hybrid wheel bolts on e.g. MERCEDES-BENZ C-Class type 204, 204X E-Class type 211, 212, 207 SLK type 172 M-Class type 164, 166 S-Class type 221, 222 CL-Class type 216

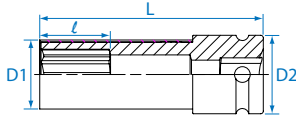





KT NO.	Size mm	D1 mm	D2 mm	ℓ mm	L mm			
9BW4501	17	26.4	30	26	85.5	229	5	60

## Impact Socket for Special Profile Wheel Bolts

**9BW4502**  1/2"

- Durable outer sleeve protects polished wheels and lug nut
- Suitable for Wheel nuts with special profile 21 mm on HYUNDAI i30, Tucson and KIA







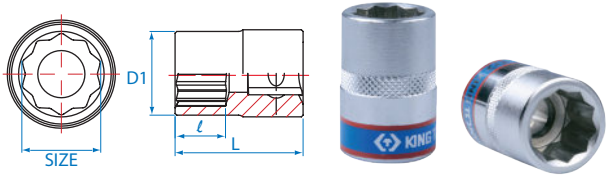
KT NO.	Size mm	D1 mm	D2 mm	ℓ mm	L mm			
9BW4502	21	28.5	30	26	85.5	252	5	60

## 10 Point Socket 20MM

**9BW4801**  1/2"



- 1/2" DR.
- 10 points
- Use for replacing and removing retaining screw on rear trailing arm on HONDA CR-V

KT NO.	 mm	D1 mm	ℓ mm	L mm			
9BW4801	20	25	15	38	88.0	10	160





# Stud/Hub Cleaning Tool & Set

## 9BK72

KT NO.	inch	L	mm		
9BK72-12	7/16		12	25.2	100
9BK72-13	1/2		13	25.4	100
9BK72-14	9/16		14	25	100
9BK72-16	5/8		16	25.6	100
9BK72-22	7/8		22	33.6	100
9BK72-28	1-1/8		28	38	100



## 9BK73






KT NO.	mm		
9BK73-14	14	13.2	100
9BK73-22	22	13.8	100
9BK711	150	101.8	100



## 9BK7008

- For cleaning corrosion from studs, especially useful for cleaning around the base of studs
- Includes one quick change handle and adaptor

8 PC.







KT NO.	Contents	 545	 10
9BK72		12, 13, 14, 16, 22, 28	
7704-50		1/2"	
9BK711		1/2"	



## 9BK7009

- For cleaning corrosion from hubs and studs, especially useful for cleaning around the base of studs
- Includes one quick change handle and adaptor

8 PC.

KT NO.	Contents	 480	 10
9BK72		14, 22	
9BK73		14 x 2, 22 x 2	
7704-50		1/2"	
9BK711		1/2"	

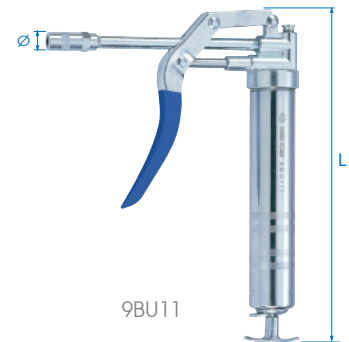
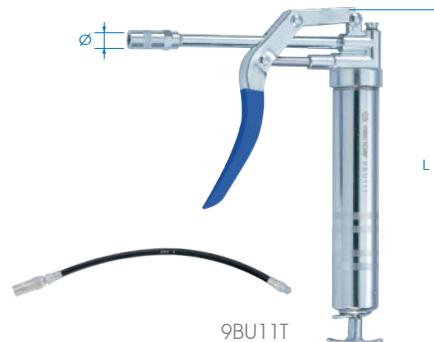




# Lubrication-Grease Gun

## 9BU11

- Ideal for machine, automobile, farm and garden equipments, other vehicles etc.



KT NO.	L		Ø Screw thread	High pressure		Capacity			
	inch	mm		PSI	bar	c.c.	oz		
9BU111	10-5/8	267	1/8 x 28 PT	4000	275	120	3	0.61	1 / 30
9BU112	10-5/8	267	M10 x 1.0P	4000	275	120	3	0.61	1 / 30
9BU111T	10-5/8	267	1/8 x 28 PT	4000	275	120	3	0.68	1 / 30
9BU112T	10-5/8	267	M10 x 1.0P	4000	275	120	3	0.68	1 / 30

9BU111/ 9BU111T For general market except North America, Germany, South Africa, Egypt  
 9BU112/ 9BU112T For Germany, South Africa, Egypt, etc.

# Lubrication-Grease Gun with 12" Tube

## 9BU143T

- Ideal for machine, automobile, farm and garden equipments, other vehicles etc.



KT NO.	L		Ø Screw thread	High pressure		Capacity			
	inch	mm		PSI	bar	c.c.	oz		
9BU1432T	14-1/2	368	M10 x 1.0P	7000	483	400	14	1.36	1 / 12

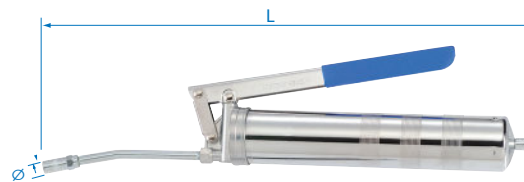
9BU1531T For general market except North America, Germany, South Africa, Egypt  
 9BU1432T / 9BU1532T For Germany, South Africa, Egypt, etc.



# Lubrication-Grease Gun

## 9BU2

- Ideal for machine, automobile, farm and garden equipments, other vehicles etc.



KT NO.	L		Ø Screw thread	High pressure		Capacity		Kg	/
	inch	mm		PSI	bar	c.c.	oz		
9BU241	14	360	1/8 x 28 PT	10000	700	400	14	1.18	1 / 16
9BU242	14	360	M10 x 1.0P	10000	700	400	14	1.18	1 / 16
9BU251	14.2	365	1/8 x 28 PT	10000	700	500	16	1.52	1 / 16
9BU252	14.2	365	M10 x 1.0P	10000	700	500	16	1.52	1 / 16

9BU241 / 9BU251 For general market except North America, Germany, South Africa, Egypt  
 9BU242 / 9BU252 For Germany, South Africa, Egypt, etc.

# Lubrication-Grease Gun with 12" Tube

## 9BU2T

- Ideal for machine, automobile, farm and garden equipments, other vehicles etc.



KT NO.	L		Ø Screw thread	High pressure		Capacity		Kg	/
	inch	mm		PSI	bar	c.c.	oz		
9BU241T	14	360	1/8 x 28 PT	10000	700	400	14	1.24	1 / 16
9BU242T	14	360	M10 x 1.0P	10000	700	400	14	1.24	1 / 16
9BU251T	14.2	365	1/8 x 28 PT	10000	700	500	16	1.63	1 / 16
9BU252T	14.2	365	M10 x 1.0P	10000	700	500	16	1.63	1 / 16
9BU8109	9	229	1/8 x 28 PT						
9BU8209	9	229	M10 x 1.0P						
9BU8112	12	305	1/8 x 28 PT						
9BU8212	12	305	M10 x 1.0P						

9BU241T / 9BU251T For general market except North America, Germany, South Africa, Egypt  
 9BU242T / 9BU252T For Germany, South Africa, Egypt, etc.



## Portable Bearing Packer

9BU41

- Quick and easy way to pack bearings with less mess
- Suitable for bearing diameter up to 90 mm
- Press the cap until old grease forced out and replaced by fresh grease

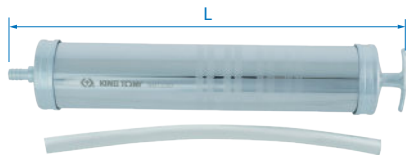
505.2 1 / 36



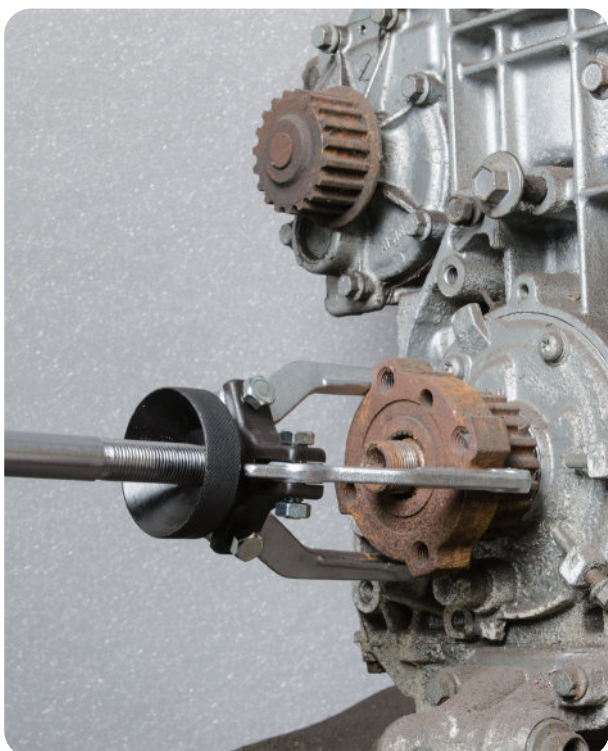
## Oil Suction Gun

9BT2

- Designed for all purpose, quickly draining and filling oil and other fluids for clutches, agricultural, and industrial chemical, additives, transmission on differentials, brake master cylinders, oil filters or other type of sumps or sampling engine oil
- Features 11" flexible plastic hose



KT NO.	L		Capacity c.c.	oz	770	1 / 20
	inch	mm				
9BT250	13.4	340	500	16	770	1 / 20
9BT100	17.3	440	1000	32	1238	1 / 20



## Slide Hammer Puller Set

9BQ01

- 5 lbs / 2.2 kgs slide hammer with 500 mm shaft make more powerful
- Three types to use : internal/external puller, plate puller, dent puller
- Use for remove vehicle Hub, rear axle, bearing or repair dent, etc.

7.5 1 / 2



17  
PC.

CONTENTS:

- 1 PC. 500 mm T handle shaft
- 1 PC. 5 lbs / 2.2 kgs hammer
- 1 PC. Axle puller
- 1 PC. Hub puller
- 1 PC. Hook
- 1 PC. Locking pliers puller
- 1 PC. Dent puller
- 1 PC. Central bolt
- - Hex 19mm x 5/8" x 18UNF x L140mm
- 1 PC. Twin head
- 1 PC. Tripe head
- 1 PC. Adjustable nut
- 3 PC. 3.5" leg
- 3 set nut & bolt



## Axle Puller With Slide Hammer

9BQ11

- 5 lbs / 2.2 kgs slide hammer
- 500 mm T handle shaft

4 1 / 4

3  
PC.



CONTENTS:

- 1 PC. 500 mm T handle shaft
- 1 PC. 5 lbs / 2.2 kgs hammer
- 1 PC. Axle puller



# Auto Body Repair Tool

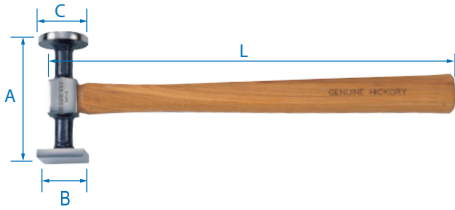


**CAUTION** Please wear proper safety gear while working.



## 9CF110

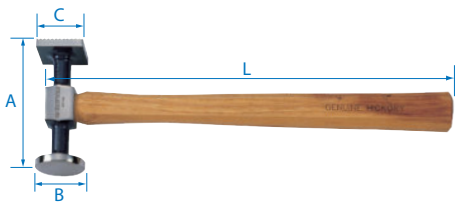
- Bumping hammer
- Flat face



KT NO.	A mm	B mm	C mm	L mm		
9CF110	98.5	38	40	325	440	6 / 36

## 9CF120

- Light shrinking hammer - smooth
- Flat face + milled square face



KT NO.	A mm	B mm	C mm	L mm		
9CF120	98	40	38	325	467	6 / 36

## 9CF130

- Straight pick & finishing hammer



KT NO.	A mm	B mm	L mm		
9CF130	138	40	325	467	6 / 36

## 9CF131

- Curved pein & finishing hammer



KT NO.	A mm	B mm	L mm		
9CF131	140	40	325	467	6 / 36

## 9CF132

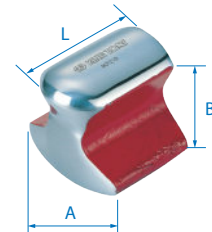
- Stright pein & finishing hammer



KT NO.	A mm	B mm	L mm		
9CF132	141	40	325	460	6 / 36

## 9CF210

- Utility dolly



KT NO.	A mm	B mm	L mm		
9CF210	69	64	42.3	1380	6 / 12

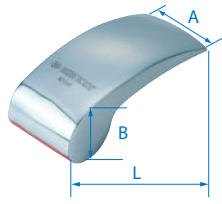


# Auto Body Repair Tool & Set



## 9CF220

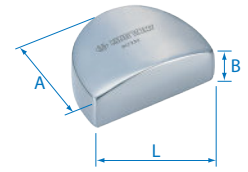
- Curved dolly



KT NO.	A mm	B mm	L mm		
9CF220	58.6	45	133	1630	6 / 12

## 9CF230

- Heel dolly



KT NO.	A mm	B mm	L mm		
9CF230	60	30	79.3	1130	6 / 12

## 9CF240

- Toe dolly



KT NO.	A mm	B mm	L mm		
9CF240	58.5	29.1	121	1400	6 / 12

## 9CF241

- Thin toe dolly



KT NO.	A mm	B mm	L mm		
9CF241	55	24	118	960	6 / 12

## 9CF-107

## 9CF-207

## 9CF-307

- All drop forged medium(SAE/AISI 1045,1055) carbon steel
- Hammers are hardened and tempered, including 3 hardwood handled hammers and 4 dollies

**7**  
PC.



9CF-107



9CF-207



9CF-307

KT NO.	Contents			
9CF-107			7.50	1 / 2
9CF-207			7.10	
9CF-307			7.10	



## Pneumatic Dent Puller

### 9CH212

- With 3 LB ( 1.36 kgs ) sliding hammer
- With brass valve and 1/4" air plug
- With 13" length inlet hose
- With 2 PC. pads ( 120mm , 150mm )
- Air exhaust from the handle
- Working pressure 90 PSI

3.5 1/4



## Bodywork File & Set

### 9CM01

- Used for sheet-metal working
- Suitable for flat and curved surfaces
- Double-sides file with radial shape
- Lightweight aluminium body
- 1 PC. file included



9CM11

9CM209



KT NO.	Version	Teeth inch	Length mm		
9CM01	rough	8	355	1580	1 / 20

### 9CM2

- Used for sheet-metal working
- Suitable for flat and curved surfaces
- Double-sides file with radial shape
- For 9CM11



KT NO.	Version	Teeth inch	Length mm		
9CM209	rough	8	355	330	1 / 50
9CM212	fine	12	355	330	1 / 50

## Slide Hammer Bodywork Puller Set

### 9CH01

- 6 lbs / 2.7 kgs slide hammer with 540 mm shaft make more powerful
- Variety attachment adaptor suitable for different situation
- Use for vehicle body panel and chassis or other metal distortion etc.

8.50 1/2



#### CONTENTS:

- 1 PC. 540 mm handle shaft
- 1 PC. 6 lbs / 2.7 kgs hammer
- 1 PC. Large curve hook
- 1 PC. Small curve hook
- 1 PC. Large 90° hook
- 1 PC. Small 90° hook
- 1 PC. Flat squashed attachment
- 1 PC. Straight attachment
- 1 PC. Double attachment
- 1 PC. Tapping screw
- 1 PC. Hook attachment with chain



## Putty Knife

### 9CJ1112

1-1/4"



KT NO.	A inch	A mm	L inch	L mm		
9CJ1112	1-1/4	32	8-1/2	218	60.0	24 / 144

### 9CJ1120

2"



KT NO.	A inch	A mm	L inch	L mm		
9CJ1120	2	50	8-1/2	218	70.0	24 / 144





## Putty Knife

9CJ1130

3"



KT NO.	inch	mm	inch	mm	g	boxes
9CJ1130	3	76	8-1/2	218	82	24 / 144

## Bolstered Scraper

9CJ2120

2"



KT NO.	inch	mm	inch	mm	g	boxes
9CJ2120	2	50	8-1/2	218	140	24 / 144

## Stainless Steel Putty Knife Set

9CJ013



3 PC.

Contents

0.20 g 1 / 24



9CJ1112



9CJ1120



9CJ1130

## Stainless Steel Bolstered Scraper Set

9CJ023



3 PC.

Contents

0.40 g 1 / 24



9CJ2112



9CJ2212



9CJ2120

## Bolstered Scraper

9CJ2112

1-1/4"



KT NO.	inch	mm	inch	mm	g	boxes
9CJ2112	1-1/4	32	8-1/2	218	120	24 / 144

9CJ2212

1-1/4"



KT NO.	inch	mm	inch	mm	g	boxes
9CJ2212	1-1/4	32	8-1/2	218	120	24 / 144

## Pinch Weld Scraper

9CJ3104

1/2"



KT NO.	inch	mm	inch	mm	g	boxes
9CJ3104	1/2	12	6-1/2	168	75	24 / 144

9CJ3105

5/8"



KT NO.	inch	mm	inch	mm	g	boxes
9CJ3105	5/8	15	8-1/2	218	108	24 / 144

## Pinch Weld Scraper

9CJ3106

3/4"



KT NO.	inch	mm	inch	mm	kg	ctn / pc
9CJ3106	3/4	19	6-1/2	168	75	24 / 144

## Multi Purpose Single Edge Razor Scraper

9CJ61-40

- Ideal for scraping labels and decals
- Comfortable TPR handle for maximum grip
- Accepts all standard single edge razor blades



KT NO.	inch	mm	inch	mm	kg	ctn / pc
9CJ61-40	1-1/2	40	9	235	145	6 / 72

## Stainless Steel Pinch Weld Scraper Set

9CJ033



3 PC.

Contents

kg 0.26 ctn / pc 1 / 24



## Mini Panel Removal Set

9CI016

- Easy to remove small trim items and panels with slim profile
- Made from impact resistant high quality nylon
- Applicable: Air vents, door panels, door locks, dash trim, internal fittings, etc.

kg 0.30 ctn / pc 12 / 48

6 PC.

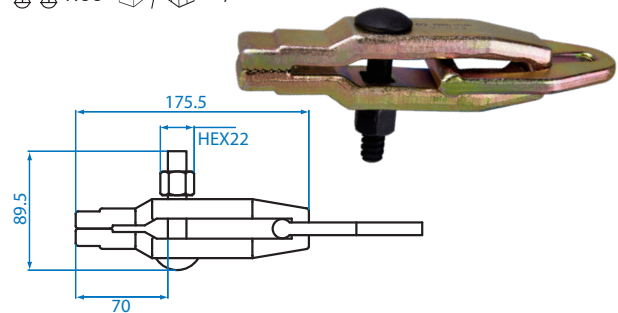


## Long Nose Clamp

9CD14

- Drop forged chrome molybdenum alloy steel for maximum strength
- Jaw width : 32mm
- 3 Ton straight pulling capacity

kg 1.83 ctn / pc 1 / 10

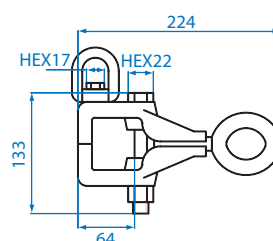


## Large Pull Clamp With Top Pull

9CD21

- Drop forged chrome molybdenum alloy steel for maximum strength
- Jaw width : 37mm
- Two-way pull operation
- Dual self-tightening serrated jaws for a positive grip
- Capacity : 3 ton (straight way), 2 ton (cross way)

kg 2.45 ctn / pc 1 / 6

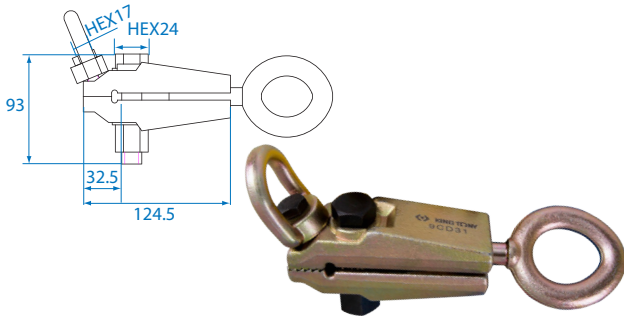


## Small Pull Clamp With Top Pull

9CD31

- Drop forged chrome molybdenum alloy steel for maximum strength
- Jaw width : 44mm
- 44mm wide mouth with teeth
- With top pull and 360 degree self tightening pull ring
- Dual self-tightening serrated jaws for a positive grip
- Ideal for work in tight areas
- Capacity : 5 ton (straight way), 2 ton (cross way)

🔧 2.38 📦 1 / 6



## Double Suction Pad Holder

9CW21

- Lifting up to 65 kg in horizontal position
- Adjustable handle designed for curved surface
- Ø120mm rubber vacuum cup can prevent from the damage of surface and grip tightly
- Use for holding glass, tiles, sheet metal, etc.



KT NO.	Ø mm	Load capacity kg	🔧	📦
9CW21	120	65	805	4 / 8

## Windscreen Remove Tool Set

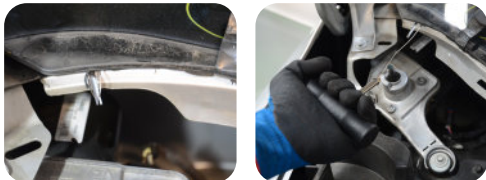
9CW01

- Use for removing glued of vehicle windows
- Use A with C to pierce the wire through the adhesive beads
- Use the cutting wire with B to remove adhesive beads



CONTENTS :

- A - Wire feeder tool
- B - Wire pull handle - pair
- C - Triangle cutting wire - 22 meters



KT NO.	Wire L m	T Handle L mm	🔧	📦
9CW01	22	330	456	8 / 32

## Single Suction Pad Holder

9CW22

- Lifting up to 40 kg in horizontal position
- Ø120mm rubber vacuum cup can prevent from the damage of surface and grip tightly
- Use for holding glass, tiles, sheet metal...



KT NO.	Ø mm	Load capacity kg	🔧	📦
9CW22	120	40	351	6 / 48





## Alternator Tool & Set

- Specialized in removing & installing freewheel pulleys on alternator
- Ideal for dismantling and assembling the free wheel pulley while changing the alternator or pulley
- The pulley shaft is held in place with the bit on 1/2" DR. socket whilst the nut is undone using the 33 teeth union nut with 19mm spanner
- Suitable generator brand: Bosch, Valeo, Magetic Marelli, Denso, etc.
- It's also interchangeable and comprehensive components to work on VW, Audi, Citroen/ Peugeot, Mercedes, Renault, BMW, Fiat, Ford, Toyota, etc.

### 9DA103

1/2"

- M10 spline



KT NO.	Size	Overall length mm		
9DA103	M10	113	151	10 / 120

### 9DA104

1/2"

- T50 Star



KT NO.	Size	Overall length mm		
9DA104	T50	113	151	10 / 120

## Alternator Tool & Set

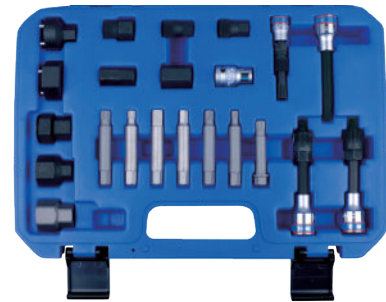
### 9DA022

- Specialized in removing & installing freewheel pulleys on alternator
- Suitable generator brand : Bosch, Valeo, Magetic Marelli, Denso, etc.
- It's also interchangeable and comprehensive components to work on VW, Audi, Citroen/Peugeot, Mercedes, Renault, BMW, Fiat, Ford, Toyota, etc.

CONTENTS:

- 3 PC. Combined bit socket – 3/8" DR. x M10 x 90mmL / 1/2" DR. x T50 x 113mmL / 1/2" DR. x M10 x 113mmL
- 1 PC. Spline bit socket 1/2" DR. x M10 x 110mmL
- 3 PC. 33 teeth socket – 15mm HEX x19mm / 15mm Hex x17.5mm / 22mm Hex
- 2 PC. Hex nut – 22mm x 30mmL (Ø12.0mm) / 17mm x 35mmL (Ø14.7mm)
- 1 PC. - 35mm Round x 17mm hex (four pin)
- 1 PC. - 38mm Hex adaptor (three pin)
- 1 PC. - 28.6mm Round x H28 x H22 x 32mmL
- 2 PC. - Hexagon head nut – 28H x H19 x 35mmL / 28H x H21 x 36mmL
- 1 PC. - M10 x H12 bit 64mmL
- 6 PC. - 10mm shank head bits 75mmL – T40 / T50 / M8 / M10 / H8 / H10
- 1 PC. - 1/2" DR. Bit holder

2.57 1 / 5



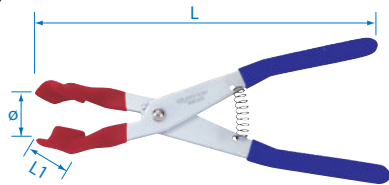
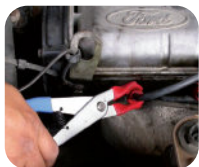
22 PC.



## Spark Plug Boot Pliers

### 9DB201

- Remove spark plug cables safely and prevent cable damage
- Pliers' handles and jaws are coated with a heavy-duty plastic for sure grip

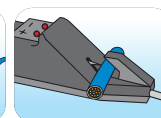
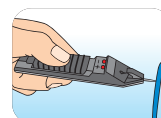
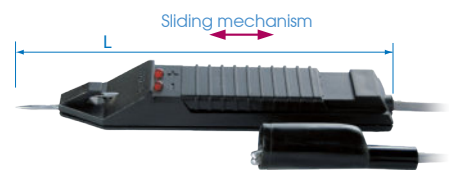


KT NO.	L mm	Ø mm	L1 mm		
9DB201	260	12~20	20	289	6 / 36

## Automotive Voltage Tester

### 9DC23

- Insulated alligator clip with 150 cm cable
- 2 LEDs indicate positive(+)/negative(-) polarity
- Test voltage 3~48V
- For application of D.C. circuits only
- Two testing methods as illustration



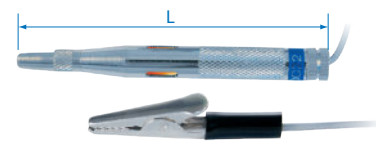
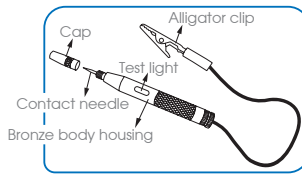
KT NO.	L mm	Test range		
9DC23	150	3~48V	52	10 / 100



# Circuit Tester

## 9DC22

- Bronze body housing
- Cover cap for contact needle
- Bulb of 24V/3W interchangeable
- For 6/12/24V DC systems
- For application of D.C. circuits only



KT NO.	L mm	Test range		
9DC22	107	6~24V	50	20 / 200

# Digital Display Circuit Tester

## 9DC242

- For 6/12/24V DC systems
- For application of DC circuits only
- Check if the circuit is electrified or not by stainless steel stylus
- Bigger heavy duty insulated alligator ground clip
- 3M long retractable cable
- LCD display easy to read digital voltage display
- Powered from the power source being measured, no batteries required
- CE approval EN 61000-6-3(2007) , EN 61000-6-1(2007)
- Do not use on air bags
- Ultra-V will burn circuit board



Positive (+) polarity



Negative (-) polarity

Specification	
Measured voltage	5~28V
Testing current	<10mA
Operating temp	-10~50° C
Operating humidity	<80%

KT NO.	Test range		
9DC242	6, 12, 24	225	10 / 60

# Circuit Tester with Nixie Display

## 9DC243

- For 12/24/48V DC systems
- For application of DC circuits only
- Check if the circuit is electrified or not by stainless steel stylus
- Test by car battery or negative ground conversion
- 3M long retractable cable
- 1M extension cable
- Powered from the power source being measured, no batteries required
- Nixie display easy to read digital voltage display
- CE approval EN 61000-6-3(2007) , EN 61000-6-1(2007)
- Do not use on air bags
- Ultra-V will burn circuit board



Positive (+) polarity



Negative (-) polarity

Specification	
Measured voltage	0.3~60V
Testing current	<10mA
Operating temp	0~50° C
Operating humidity	≤ 80%

KT NO.	Test range		
9DC243	12, 24, 48	277	10 / 60



## Battery Tester

### 9DD21

- Test battery hydrometer quickly
- Use to check battery condition and charge state
- Detects hot or cold overcharge accurately
- For 6 / 12 / 24 volt system

⚖️ 85 📦 10 / 100



## Anti-freeze & Coolant Tester

### 9DD22

- Use to check condition of antifreeze and coolant (Ethylene Glycol)
- Ideal for avoiding winter freeze-ups and summer overheating

⚖️ 85 📦 10 / 100



## Mechanic's Stethoscope

### 9DH11

- Ears covered with plastic, effective to separate from outside noise
- 210mm extension probe can expand the space while operating or using in narrow space
- Quickly to find and detect the abnormal noise with the probe
- Use for detecting various vehicles parts or machine equipment

⚖️ 147 📦 12 / 72



## Vehicle Battery Tester

### 9DC51

- Test a 12V lead-acid battery of any vehicle
- CCA testing(SAE/DIN/EN/IEC/CA standard)
  - Working voltage: DC 9~15V
- Engine starting voltage test
  - Measures the minimum voltage when the engine starts
- Charging voltage test
  - About 14 volts
- CCA Level bar indication
  - LOW / MID / HIGH
- LCD with background light

KT NO.	Test range(V)	Size(mm) L x W x H	⚖️	📦
9DC51	9 ~ 15	135 x 78 x 33	374	1 / 30



CE

## Digital Glow Plug Tester

### 9DM1A1

- Suitable for steel and ceramic glow plugs
- LCD Display
- Short circuit protection & reverse charging protection
- Auto power off : 110 seconds
- 9V batteryx1 (included)
- CE approval

KT NO.	Glow plug(V)	Size(mm) L x W x H	⚖️	📦
9DM1A1	3.5-4.4-5-7-8.5 10-11-24	135 x 78 x 33	356	1 / 40



CE





# Gasoline Engine Injection Pressure Tester Kit

## 9DP1101

- Used to identify and diagnose low fuel pressure
- Shockproof gauge with dual reading of 0~120 PSI and 0~8 bar
- Various kit of adapters for most injection systems of European, Japanese and American vehicles, includes Bosch CIS, GM TBI and MFI system



81  
PC.

5.0 1 / 4

No.	Description	No.	Description
1	1 PC. (0-120 psi/0-8bar)	20	1 PC. Adapter (M14 male-female)
2	1 PC. Connector Hose	21	1 PC. Adapter (M10 male-M12 male)
3	1 PC. Connector Hose	22	1 PC. Adapter (M10 female-M12 male)
4	1 PC. Connector Hose	23	1 PC. Adapter (M8 female-M12 male)
5	1 PC. Connector Hose	24	2 PC. Adapter (M8 male-M12 male)
6	1 PC. Connector Hose	25	1 PC. Adapter (M14 male-M12 male)
7	1 PC. Connector Hose	26	1 PC. Adapter (M16 male-M12 male)
8	1 PC. Connector Hose	27	1 PC. Adapter (Banjo bolt M12)
9	2 PC. Connector Tube (5/8"-18 male nut)	28	1 PC. Adapter (Banjo bolt M12)
10	2 PC. Connector Tube (5/8"-18 invert flare nut)	29	1 PC. Adapter (Banjo bolt M10)
11	2 PC. Adapter (M16 female~5/8")	30	1 PC. Adapter (Banjo bolt M8)
12	2 PC. Adapter (M14 female~3/8")	31	1 PC. Adapter (Banjo bolt M6)
13	2 PC. Adapter (M16 female~3/8")	32	1 PC. Adapter
14	2 PC. Adapter (M14 female~3/8")	33	1 PC. Adapter (M8 male-M12 male)
15	2 PC. Adapter (M16 ar-10mm)	34	1 PC. Adapter (M16 female-M12 male)
16	1 PC. Adapter	35	1 PC. Adapter (M14 female-M12 male)
17	1 PC. Manifold Adapter	36	1 PC. Gauge Hook
18	1 PC. Manifold Adapter	37	1 PC. Repair Pack
19	1 PC. Adapter (90 degrees)		

# Gasoline Compression Tester Kit

## 9DP130

- Suitable for petrol engines on lawn mowers, motorbikes, cars, trucks and so on.
- Quickly diagnose problems with pistons, rings, and valves
- Gauge has dual color scale with 0-300 PSI, 0-20 Kpa
- Easy pressure release button on side of tester
- Brass corrosion resistant fittings



9DP1301

8  
PC.



9DP1302

3  
PC.

KT NO.	Max Pressure	1206	1100
9DP1301	300PSI / 20Kpa	1206	1 / 10
9DP1302	300PSI / 20Kpa	1100	1 / 10

# Diesel Engine Compression Tester Kit

## 9DP2301

- Suitable for testing cars and light commercial vehicles with direct or indirect injection on diesel engine
- Gauge reading range from 0-1000 PSI (0-70 bar)
- Includes a pressure gauge, various connect adapter and replacement seal & washer



11  
PC.

2.58 1 / 6

No.	Description	No.	Description
A	1 PC. 2-1/2" gauge with 420mm hose	H	1 PC. Glow plug adapter (114mm*M10*1.25)
B	1 PC. Glow plug adapter (73.5mm*M10*1.25)	I	1 PC. Glow plug adapter (119mm*M10*1.0)
C	1 PC. Glow plug adapter (54mm*M12*1.25)	J	1 PC. Dummy injector (75mm*M20*1.5)
D	1 PC. Glow plug adapter (72mm*M14*1.25)	K	1 Set Seal & washer
E	1 PC. Dummy injector (114mm)	L	1 PC. 90° Elbow
F	1 PC. Dummy injector (64mm*M24*2.0)	M	1 PC. Clamp plate
G	1 PC. Stanadyne dummy (112mm)		



# Oil Pressure Tester Kit

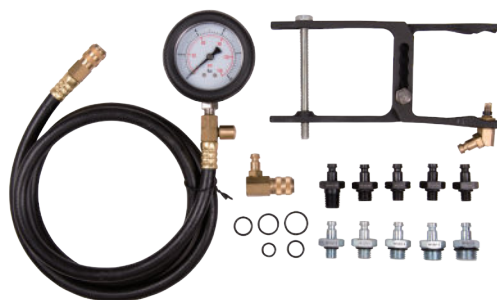
## 9DP3201

- Suitable for testing engine oil pressure and transmission pressure
- Applicable to both gasoline and diesel engines, also suitable for passenger cars and light trucks
- Gauge reading range from 0-150 PSI (0-10 bar)
- Provided with an oil filter clamp for piercing through oil filter canister when oil pressure switch is hard to access

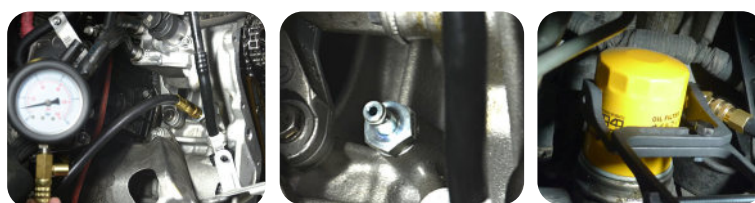
1/2 2.10 1/5

Adapter

Black (Imperial threads)	Silver (Metric threads)
1/2" x 20 UNF	M10 x P1.0
3/8" x 20 UNF	M12 x P1.5
1/4" x 18 NPTF	M14 x P1.5
1/8" x 27 UPT	M16 x P1.5
R 1/8" DIN	M18 x P1.5



13  
PC.

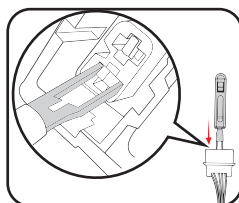
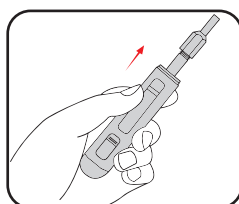


# Universal Terminal Release Tool Set

## 9DT11

- Suitable for most of the vehicles, VW Group, BMW, Opel, Renault, Ford, Daimlerchrysler, Fiat, Toyota and Saab
- Use to loose contacts easily or carry out other applications in the field of car electricity

A	9DT11-1	ABS 4.0mm round terminal
B	9DT11-2	3.5mm round terminal
C	9DT11-3	1.5mm round terminal
D	9DT11-4	Maxi power timer
E	9DT11-5	Pit pod / Faston 6.3mm
F	9DT11-6	JPT / SPT
G	9DT11-7	Micro timer ii
H	9DT11-8	Standard tool
I	9DT11-9	Standard 2.72mm
J	9DT11-10	Standard 1.48mm
K	9DT11-11	Standard 1.89mm
L	9DT11-12	Micro standard



12  
PC.

1/2 850 1/10

# Safety Goggles

## 9CK-101

- Soft PVC frame & lens high impact clear polycarbonate
- Anti-dust and anti-impact vents

KT NO.	L1 inch	L1 mm	L2 inch	L2 mm	1/2	1/5
9CK-101	2-7/8	74	6	153	70	20 / 200

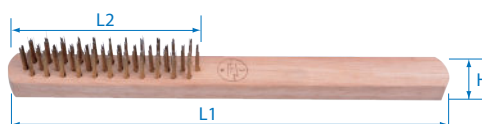


# Steel Wire Brush

## 9CZ101

- Material : wood handle / steel wire
- Wire brush with three rows

KT NO.	H mm	L1 mm	L2 mm	1/2	1/5
9CZ101	22	258	105	65	24 / 144



## Pressure Oil Can

9TB225

9TB500

- Material: Plastic body (9TB225)
- Material: Metal body (9TB500)

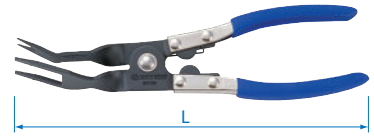


KT NO.	Capacity c.c.	9TB225	9TB500
9TB225	225	103	1 / 160
9TB500	500	302	10 / 60

## Clip Removal Pliers

9TC101

- For removal of door inner-linings and other trim items held in place by plastic rivets



KT NO.	inch	mm		
9TC101	9	230	241	12 / 48

## Flexible A/C Detective Light

9TQ31

KT NO.	L1 mm	L2 mm	L3 mm		
9TQ31	34	400	140	107	1 / 5



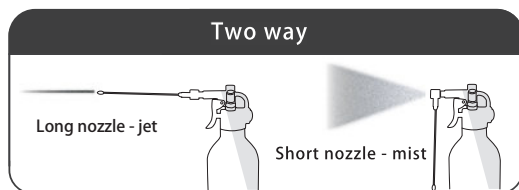
## Refillable Pressure Sprayer

9TBA600

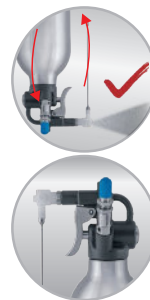
- Suitable for lubrication, cleaning brake systems, removing dust and applying anti-rust
- Two-position folding nozzle for a standard or long stream spray pattern for narrow and difficult to reach areas
- Do not use with strong chemical or corrosive fluid
- The aluminum alloy material uses a one-piece seamless structure to withstand high pressure
- Increase in thickness makes the product less prone to deformation and stronger
- The trigger is not affected by recoil force and is easy to operate
- Max pressure 350 Psi (25Kg /cm<sup>2</sup>)
- Safety valve pressure : 140Psi (9.84 Kg /cm<sup>2</sup>)



Always wear eye protection while using this tool



KT NO.	inch	L mm	capacity		
9TBA600	11	280	600 c.c.	330	1 / 12

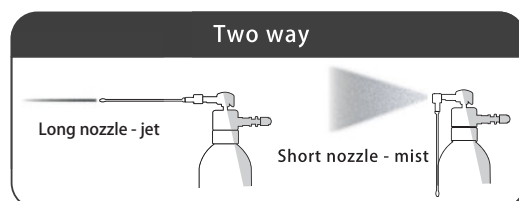


Safety pressure valve



9TBA650

- Suitable for lubrication, cleaning brake systems, removing dust and being anti-rust
- Two-position folding nozzle for a standard or long stream spray pattern for narrow and areas which are difficult to reach
- Aluminum canister
- Do not use with strong chemical or corrosive fluid



KT NO.	inch	L mm	capacity		
9TBA650	11	287	650 cc	290	1 / 12

spare nozzle #9TBA650BTK



Safety pressure valve





## Pry Bar & Set

- Grip material - PP+TPR
- Chrome vanadium alloy steel

### 9TK1

- Packaged in plastic tray
- Pry bars are for prying and levering
- Sturdy blade minimizing lever spring effect
- It's hardened and tempered for maximum durability



KT NO.	L mm		
9TK108	204	110	6 / 72
9TK112	312	286	6 / 48
9TK118	458	514	6 / 48
9TK124	608	655	6 / 36

### 9TK014



4 PC.

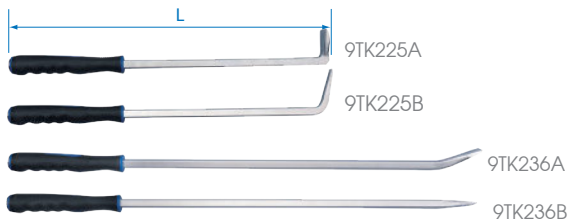
Contents 1.87 5 / 10

9TK108, 9TK112, 9TK118, 9TK124

## Jumbo Pry Bar & Set

### 9TK2

- For heavy-duty application
- Includes straight, 90, 45, 30 degree tip for variety situation to use
- Extra long pry bar makes more powerful for prying and levering



KT NO.	inch	L mm	Type		
9TK225A	25	630	90°	1620	1 / 6
9TK225B	25	630	75°	1510	1 / 6
9TK236A	36	930	30°	2070	1 / 12
9TK236B	36	930	Straight	2060	1 / 12

### 9TK024



4 PC.

Contents 9.34 1 / 2

9TK225A  
 9TK225B  
 9TK236A  
 9TK236B

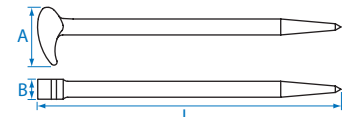
## Rolling Head Pry Bar & Set

- Material - chrome vanadium alloy steel
- Finishing - Black phosphate with polished head



### 9TK3

- With a long tapered end for alignments and a rolling head for prying



KT NO.	inch	L mm	A mm	B mm		
9TK306	6	151	29.0	10.0	75	10 / 200
9TK312	12	305	36.5	12.3	252	2 / 40
9TK316	16	405	45.6	14.5	501	2 / 20
9TK320	20	504	60.2	18.0	952	2 / 20

### 9TK034



4 PC.

Contents 1.73 1 / 8

9TK306  
 9TK312  
 9TK316  
 9TK320

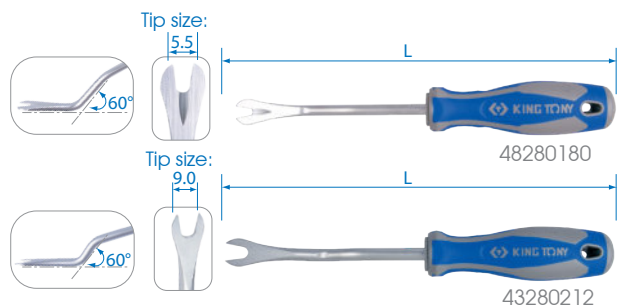
## Door Upholstery Remover

- Grip material - PP+TPR
- Chrome vanadium alloy steel

### 48280180

### 43280212

- Special tool to remove the lining and clip of the car



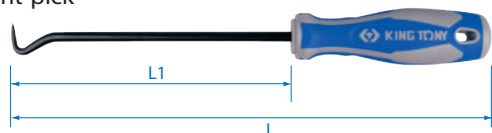
KT NO.	Tip mm	L mm	Type		
48280180	5.5	210	60°	90	12 / 144
43280212	9	240	60°	134	12 / 144



# Hook & Pick Set

## 43250115Y

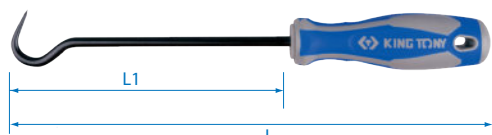
- 10" Bent-pick



KT NO.	L mm	L1 mm		
43250115Y	260	150	94	12 / 144

## 43260115Y

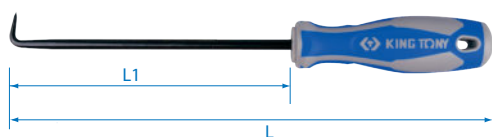
- 10" Hook-pick



KT NO.	L mm	L1 mm		
43260115Y	260	150	96	12 / 144

## 43270115Y

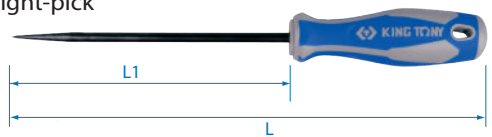
- 10" 90°-pick



KT NO.	L mm	L1 mm		
43270115Y	260	150	94	12 / 144

## 43290115Y

- 10" Straight-pick



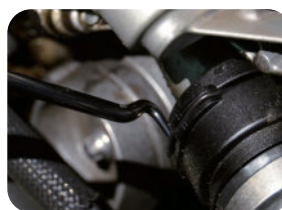
KT NO.	L mm	L1 mm		
43290115Y	260	150	91	12 / 144

## 9-30904AY

- Use for scribing, alignment, installing and removing O rings, seals, cotter pins and washers



4 PC.



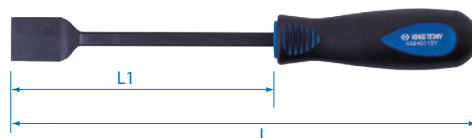
Contents

0.43 1 / 10

	43250115Y		43270115Y
	43260115Y		43290115Y

## 43240115Y

- Wide scraper
- Use for removing old gaskets more easily and quickly



KT NO.	L mm	L1 mm		
43240115Y	260	150	149	12 / 144

## 30914AY

- Use for scribing, alignment, installing and removing O rings, seals, cotter pins and washers

Contents

62.8 6 / 72

	43350175Y		43360175Y
	43370175Y		43390175Y



4 PC.



# Hook & Pick Set

9-30909AY

Tray category #8 (375 x 187mm)

- Use for scribing, alignment, installing and removing O rings, seals, cotter pins and washers
- Use for removing old gaskets more easily and quickly

9 PC.

Contents		0.69	1 / 12
	43250115Y		43350175Y
	43260115Y		43360175Y
	43270115Y		43370175Y
	43290115Y		43390175Y
	43240115Y		

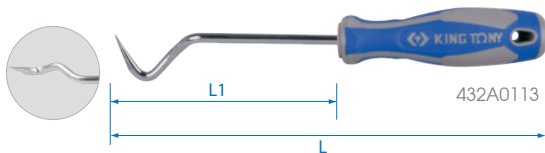


# Radiator Hose Removal Tools

- Grip material - PP+TPR
- Chrome vanadium alloy steel

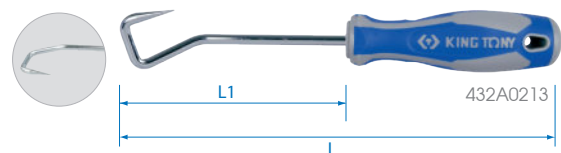
432A0113

- 9-1/2" Lightening type removal tools
- 9-1/2" U type removal tools



KT NO.	L mm	L1 mm	0.93	12 / 96
432A0113	240	130	93	12 / 96

432A0213



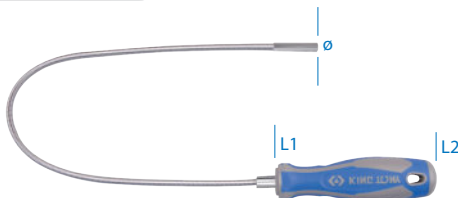
KT NO.	L mm	L1 mm	1.01	12 / 96
432A0213	240	130	101	12 / 96

# Magnetic Flexible Handle

- Grip material - PP+TPR

2121

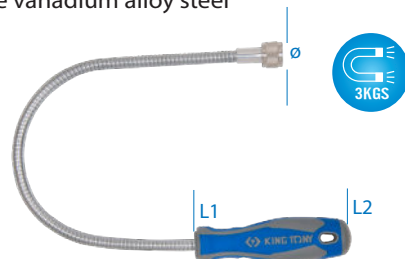
- Enhanced flexible conduit for perfect shaping
- More powerful magnetic force



KT NO.	Size	Dia x length(mm) L1 L2	Magnetic power(kg)	1.00	1 / 100
2121-12	12"	Ø 7 x 305 415	0.5	100	1 / 100
2121-18	18"	Ø 7 x 457 567	0.5	120	1 / 80

2121A

- Powerful magnet retrieves metal objects up to 3kg
- Slide cap prevents retrieving foreign objects
- Enhanced flexible conduit for perfect shaping
- Grip Material-PP+TPR
- Chrome vanadium alloy steel



KT NO.	Size	Dia x length(mm) L1 L2	Magnetic power(kg)	2.50	1 / 25
2121A-15	15"	Ø 18 x 381 491	3	250	1 / 25
2121A-18	18"	Ø 18 x 457 567	3	270	1 / 25

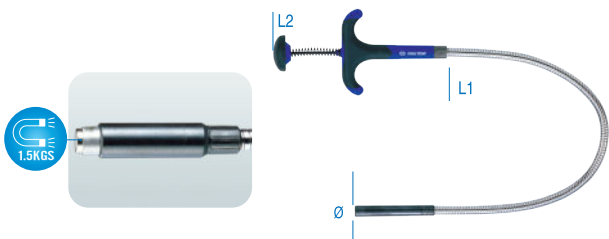




## Magnetic Pick-Up Tool

2124

- Compact and ergonomic design for comfortable holding
- Enhanced flexible conduit for perfect shaping
- Solid crimping for holding tube and flexible conduit
- More powerful magnetic force
- Comfortable pushing strength

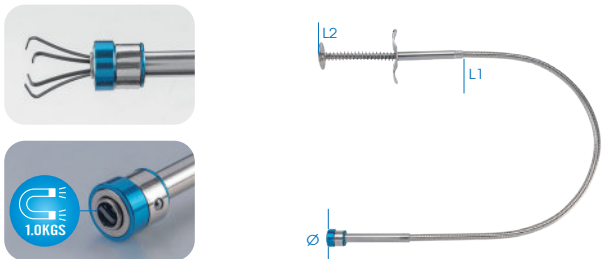


KT NO.	Size	Dia x length(mm) L1	L2	Magnetic power(kg)			
2124-18	18"	Ø13.5 x 450	610	1.5	181	1	36

## Magnetic Claw Pick-Up Tool

2126A-18

- Compact and ergonomic design for comfortable holding
- Enhanced flexible conduit for perfect shaping
- Solid crimping for holding tube and flexible conduit
- Maximum claw width 1-1/4"
- Comfortable pushing strength

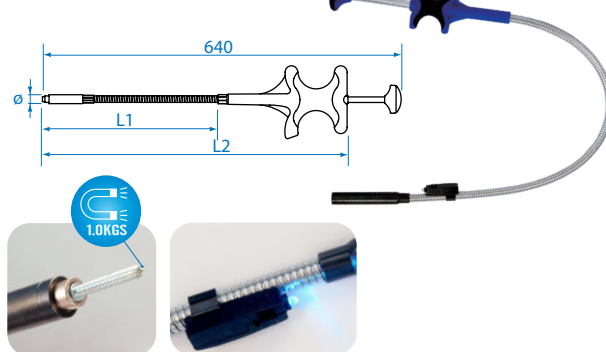


KT NO.	Size	Dia x length(mm) L1	L2				
2126A-18	18"	Ø15 x 440	600	1-1/4"	258	1	36

## 3 in 1 Pick-Up Tool

2129-24

- Compact and ergonomic design for comfortable holding
- Enhanced flexible conduit for perfect shaping
- Solid crimping for holding tube and flexible conduit
- More powerful magnetic force
- Hook type claw
- Clamp light
- Comfortable pushing strength
- Lithium cell : LR521 x 3



KT NO.	Size	Dia x length(mm) L1	L2	Magnetic power(kg)				
2129-24	24"	Ø13 x 470	570	0.4	1-1/4"	280	12 / 48	

## Telescoping Magnetic Pick-Up Bar

2128-26

- Pen style for carrying conveniently



KT NO.	Extendable Length mm	Magnetic Power			
2128-26	130~640	3.5LBS/1.6KGS	45.6	50	200

## Multi-Function Telescoping Bar

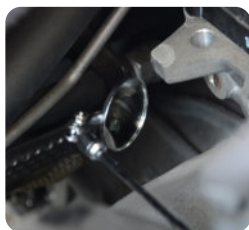
9TQ21

87 50 / 100

- ▶ Magnetic Pick-Up Bar
- ▶ 38 mm Diameter Inspection Mirror
- ▶ Scriber



- Magnetic power : 1.3 lbs / 0.6 kgs
- Extendable length : 635 mm



- To inspect hidden or narrow areas
- Double ball joint links swivel mirror for viewing to 360°



- To mark lines on workpieces
- To clean the water-sprouting hole of the windscreen wiper



# 3 in 1 Flexible Inspection Bar

## 9TQ02

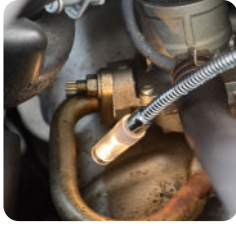
203 12 / 72

### ► Magnetic Pick-Up Bar



- Magnetic power : 3.5 lbs / 1.6 kgs
- Length : 450 mm

### ► Blub



- Size: 2.2 V , 0.25 A
- Operates On 2 AA Batteries
- (Not Included)

### ► Inspection Mirror



- 50 x 25 mm playground shape
- To inspect hidden or narrow areas
- Double ball joint links swivel mirror



# Videoscope

- 5.5mm lens with 6 LED, can be used for shooting video or taking photo (1080P HD Camera 1920 x 1080 resolution)
- The videoscope is suitable for visually inspecting areas that are difficult to access over a great distance
- CE / ROHS / FCC certification
- IP67 waterproof rating

## 9TQ11

- Handheld version
- 4.3 inch LCD display with 1080P resolution
- Equipped with 2600mAh Li-ion battery, can be continuous use for 3 hours
- UN38.8 certification

740 1 / 8

### Contents

	Protective cap
	Hook
	Magnet
	Side mirror
	Charging cable



## 9TQ12

- Wifi version
- Before use, download the inskam APP, both IOS & Android are applicable
- Equipped with 1800mAh Li-ion battery, can be continuous use for 2-3 hours

331 1 / 45



### Contents

	Protective cap
	Hook
	Magnet
	Side mirror
	Charging cable









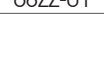


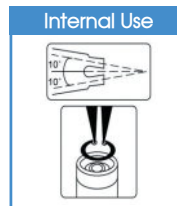
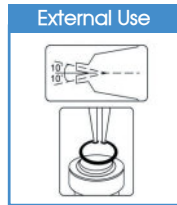
# 10-1/2" Internal-External Heavy Duty Circlip Pliers Set

## 45115PP

- Internal & External circlip pliers 10-1/2" 265 mmL, maximum spread 45 mm
- Interchangeable tips 0°, 15°, 45°, 90°
- Internal ring 65~140 mm, External ring 65~120 mm
- Interchangeable tips 2.75 mm and 3.00 mm
- Heavy duty pliers with ratcheting locking device large rings are easily controlled

### Contents

	1 PC. Internal straight circlip pliers
68GS-11	
	1 PC. External straight circlip pliers
68RS-11	
	1 Set. 15° Internal interchangeable (Ø3mm, Black)
68GR-01	
	1 Set. 45° Internal interchangeable (Ø3mm, Black)
68GQ-01	
	1 Set. 90° Internal interchangeable (Ø3mm, Black)
68GB-01	
	1 Set. 15° External interchangeable (Ø2.75mm, Silver)
68RR-01	
	1 Set. 45° External interchangeable (Ø2.75mm, Silver)
68RQ-01	
	1 Set. 90° External interchangeable (Ø2.75mm, Silver)
68RB-01	
	1 Set - Screws (6 PC. M5x0.8)
68ZZ-01	



15  
PC.






KT NO.	L		Spread		Ømm	Ømm	kg	/	/
	inch	mm	inch	mm					
45115PP	10-1/2	267	2	50	-	-	1.30	1	10
68GS-11	10-1/2	267	2	50	65~140	3	0.31	25	50
68RS-11	10-1/2	267	2	50	65~120	2.75	0.32	25	50

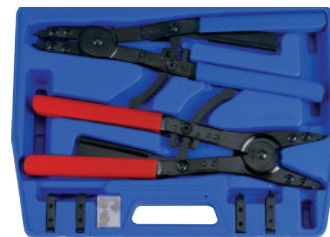
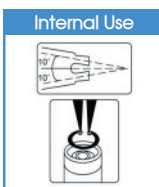
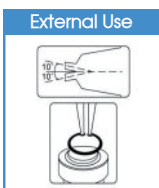
# 16" Internal-External Heavy Duty Circlip Pliers Set

## 45211PP

- Internal & External circlip pliers 16" 400 mmL, maximum spread 85 mm
- Interchangeable tips 0°, 45°, 90°
- Internal ring 78-155 mm, External ring 88~165 mm
- Interchangeable tips 3.00 mm
- Heavy duty pliers with ratcheting locking device large rings are easily controlled

### Contents

	1 PC. Internal straight circlip pliers
68GS-16	
	1 PC. External straight circlip pliers
68RS-16	
	2 Set. 45° Internal interchangeable
68GQ-02	
	2 Set. 90° Internal interchangeable
68GB-02	
	1 Set - Screws (6 PC. M6x1.0)
68ZZ-02	



11  
PC.

KT NO.	L		Spread		Ømm	Ømm	kg	/	/
	inch	mm	inch	mm					
45211PP	16	406	3-1/4	85	-	-	3.32	1	6
68GS-16	16	406	3-1/4	85	78~155	3	0.93	1	25
68RS-16	16	406	3-1/4	85	88~165	3	0.97	1	25





## Kneeling Mat

### 9TG11

- Kneeling mat makes working more comfortable during repairing wheels, brakes and exhausts
- Make the chemicals and oil resistant
- Easily clean surface
- Light and small, easy to carry and available to hang it

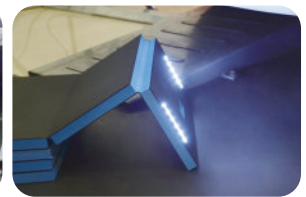
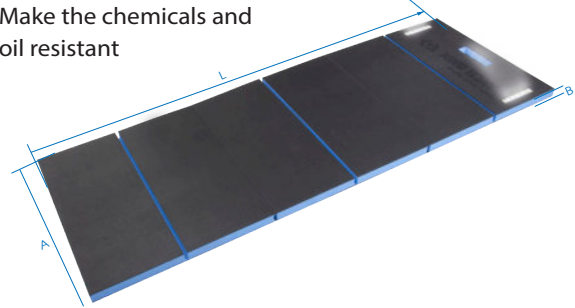


KT NO.	L mm	A mm	B mm		
9TG11	455	214	30	126	1 / 18

## LED Folding Mat

### 9TG21

- Folding mechanics mat for mechanics sit / kneel and lie on it
- 24 SMD LED lights
- Brightness : 600 Lumen(lm)
- 3 x AA batteries not included
- Folds for easy storage
- Make the chemicals and oil resistant



KT NO.	L mm	A mm	B mm		
9TG21	1150	420	24	992	1 / 10

## LED Kneeling Mat

### 9TG12

- Kneeling mat with work lights for under car repair or useful as a head protector
- 24 SMD LED lights
- Brightness : 600 Lumen(lm)
- 3 x AA batteries not included
- Make the chemicals and oil resistant



KT NO.	L mm	A mm	B mm		
9TG12	460	270	30	320	1 / 25

## Plastic Car Creeper

### 87C23-B

- Designed for 2 side storage trays, for easily picking up for small parts or tools
- Vinyl-covered foam pad brings more comfortable while working
- 280 lb. weight capacity
- 1-1/4" ground clearance



KT NO.	Size mm		
87C23-B	1010 x 475 x 130 (40")	5000	1



## Steel Creeper

87C24-B

87C25-B

- Designed with comfortable sponge cushion
- 300 lbs capacity
- 6 PC. durable swivel casters
- Long size Vinyl-covered foam pad brings more comfortable while working
- All steel construction frame makes it more strong and durable



87C24-B

87C25-B

KT NO.	Size mm		
87C24-B	920 x 425 x 95 (36")	5600	1
87C25-B	1020 x 425 x 110 (40")	7400	1

## Wing Protector

9TP11

- Protection from unwanted scratches, dents and dirt
- Magnetic attachment keeps paintwork safe from damage
- Rugged, padded imitation leather and reinforced edges provide a perfect, cushioned working area



KT NO.	Size mm		
9TP11	1050 x 650	649	1 / 8

## Wing Protector

9TP12

- Protection from unwanted scratches, dents and dirt
- Magnetic attachment keeps paintwork safe from damage
- Rugged, padded imitation leather and reinforced edges provide a perfect, cushioned working area



KT NO.	Size mm		
9TP12	1050 x 650	649	1 / 8

9TP22

- Protection from unwanted scratches, dents and dirt
- Magnetic attachment keeps paintwork safe from damage
- Suction cup attachment keeps paintwork safe from damage
- Rugged, padded imitation leather and reinforced edges provide a perfect, cushioned working area
- 3 suction cups attached



- Suction cup can be strongly adsorbed on the aluminum alloy material

KT NO.	Size mm		
9TP22	1050 x 650	650	1 / 8



## Oil Drain Pan

### 9TT11-18

- This 18 litre Oil Drain Pan includes easy grip, large carrying handles and integral spout for pouring waste oil or fluids into a recycling container. The anti-splash lip prevents spillage. Ideal for draining antifreeze or oil. (Not suitable for spray gun cleaner)



#### CONTENTS :

- 18 litre capacity
- Anti-splash lip
- Integral spout
- Ideal for draining antifreeze or oil
- Meets PAHS regulations



KT NO.	L mm	W mm	H mm		
9TT11-18	681	570	130	920	15

## Wheel Axle Oil Drain

### 9TT21-03

- When the professional technician reaches for an oil drainer pan it has to be light yet strong, a convenient size for the task in hand and easily cleaned
- The wheel Axle Oil Drain is designed for HGVs, features a 3 litre capacity and is fits snugly into the dish of the wheel to catch the waste oil as it is drained from the axle. It is also stable on the workshop floor and easy to handle



#### CONTENTS :

- Wheel axle oil drain pan with pouring lip
- Manufactured from PE plastic
- 3 litre capacity

KT NO.	L mm	W mm	H mm		
9TT21-03	316	246	156	390	20

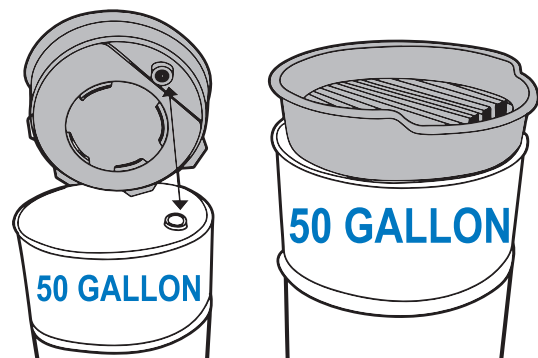
## Drum Drain Basin

### 9TT31-20

- Plastic basin installed on drum for receiving waste oil
- Intended to be installed at a standard barrel, the drain lid marries with the barrel inlet allowing simple and efficient draining of waste oil from filters etc
- Features ribbed drainage channels and a filter gate to catch foreign objects



KT NO.	Ø mm	H mm		
9TT31-20	600	155	1700	5





# 10L Pneumatic Oil(ATF) & Liquid Dispenser

## 9TV13

- Use to extract, transfer and dispense fluid quickly, safety and cleanly
- Non-spark, one man in same step can operate
- Provide with the safety valve, pre-setting 43 PSI (3 Bar), the exceed pressure will be relief automatically
- Provide with the pressure gauge, can be read & control the pressure in the tank more easily
- Provide 2 way control valve for dispensing more safety
- 8 PC. one touch transportation adapter



KT NO.	Max. Capacity	Working pressure (PSI)	Temperature range	Air inlet		
9TV13-100	10 L	90	-19°C~140°C	1/4"	4750	1

# Manual Fluid Extractor

## 9TV21-09

- Capacity : 9 litre
- Use for extracting all types of engines oil, transmission fluid and lubricants of cars, marine, stationary, motorbikes engines etc.



KT NO.	Max. Capacity	Temperature range		
9TV21-09	9 L	-19°C~90°C	4750	1 / 2

- Silicon hose x 1.2 m
- Nylon hose x 1.1 m
- Nylon hose x 1.0 m



# Pneumatic Grease Pump 20L

## 9TU11

- The barrel body is made of high-grade steel plate. It can contain 5 gallons(20L) of barrel packed grease from all nations around the world
- Suitable for all sorts of machinery, vehicles, airplanes, ships, etc. The efficient instrument for infusing grease powerfully for lubrication & maintenance purpose
- Pump of separate type: utilize the principle of liquid getting pumped & driven by air compressor to draw in liquid. There are two independent & separate cycle systems of pump out there, which prevents air-compressor-exhaust moisture from getting to the grease inside the barrel and deteriorating its quality



KT NO.	Air Input Pressure (bar)	Pressure (PSI)	Pressure Ratio	Grease Output Pressure (bar)	Pressure (PSI)	Deliver Rate (cc/sec)	N.W.	G.W.	 kg	CUFT
9TU11-20	4-9	60-130	45 : 1	180-405	2700-5850	30	17	20.5	21.0	6.4

# Hand Grease Pump 20L

## 9TU21

- 20L tank for 5 gallons grease oil
- Suitable for #00,#0,#1,#2 grease oil
- Included 1.8m length hose & pistol sprayer
- 1/4" High pressure 10,000 psi W.P oilfield hose
- Portable equipment with single pull handle
- Suitable for all sorts of machineries, vehicles, airplanes, ships, etc.



KT NO.	Transmission rate	Hose Length	N.W.	G.W.	CUFT
9TU21-20	4 cc/stroke	1.8 m	8.2 Kg	9.4 Kg	2.2

# Oil Transfer Bucket Pump 20L

## 9TW21

- Lever pump 20 L tank for oil
- Suitable for diesel fuel, lubricating oils up to SAE 90 and Non-corrosive fluids
- Included 1.8m length hose & sprayer
- Portable equipment with single pull handle



KT NO.	Deliver Rate	Hose Length	Outlet tube	N.W.	G.W.	CUFT
9TW21-20	65 cc/stroke	1.8m	3/8"	7.8 Kg	8.5Kg	2.2





# ST

STARTER



# Socket Set

## ST2346MR























1/4"

Blow case size (mm) :  
254 x 147 x 46 (0.16 cuft)

46  
PC.

### Contents

1.06 1 / 12

		2335M	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14
		2033	T8, T10, T15, T20, T25, T30, T40
		2035	H3, H4, H5, H6, H7, H8
		2031	PH1, PH2, PH3
		2032	4, 5.5, 7
		2038	PZ1, PZ2, PZ3
		1115-14	H1.27, H1.5, H2, H2.5
		2766-55G	2791
		2222-02	2222-04
		2571-45	2312-06
		2179DF	



2766DK

# Socket Set

## ST4028MR

## ST4028SR

1/2"

## ST4528MR

## ST4528SR

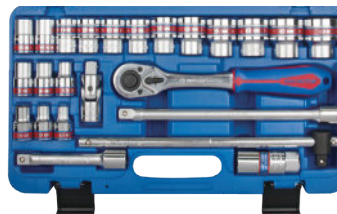
1/2"

Blow case size (mm) :  
387 x 223 x 58 (0.18 cuft)

24  
PC.



ST4028MR/ST4528MR



ST4028SR/ST4528SR






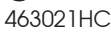











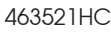






4766DK

### KT NO.

### Contents

4.10 1 / 4

ST4028MR	4330MRC	 8, 9, 10, 11, 12, 13, 14, 15, 16	 17, 18, 19, 21, 22, 24, 27, 30, 32		
ST4028SR	4330SRC	 5/16", 3/8", 7/16", 15/32"	 1/2", 9/16", 19/32", 5/8", 11/16"		 4766-10G
		 3/4", 25/32", 13/16", 7/8"	 15/16", 1", 1-1/16", 1-3/16", 1-1/4"		 4251-05RH 4251-10RH
ST4528MR	4335MRC	 8, 9, 10, 11, 12, 13, 14, 15, 16	 17, 18, 19, 21, 22, 24, 27, 30, 32		 4572-12H
ST4528SR	4335SRC	 5/16", 3/8", 7/16", 15/32"	 1/2", 9/16", 19/32", 5/8", 11/16"		 4791RH
		 3/4", 25/32", 13/16", 7/8"	 15/16", 1", 1-1/16", 1-3/16", 1-1/4"		

# Socket & Wrench Set

## SC7083MR

Blow case size (mm) :  
422 x 275 x 85 (0.35 cuft)



## SC7583MR

1/4"+1/2"

83  
PC.



KT NO.

Contents

5.65 1/4

SC7083MR	2330M	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14	1060	8, 10, 11, 12, 13, 14, 17, 19	1836H	H8, H10, H12, H14
	4330MRC	14, 15, 16, 17, 18, 19, 20, 22, 24, 27, 30, 32	2031	PH1, PH2	1836Z	PZ3, PZ4
	463016RC		2032	4, 5.5, 6.5	2766-55G	4766-10G
	463021HC		2033	T8, T10, T15, T20, T25, T27, T30	4251-05RH	2222-02 2222-04
SC7583MR	2335M	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14	2035	H3, H4, H5, H6	79831	4222-10
	4335MRC	14, 15, 16, 17, 18, 19, 20, 22, 24, 27, 30, 32	2038	PZ1, PZ2	2312-06	7702-25 3824
	463516HC		1836P	PH3, PH4	2571-45H	2179DF
	463521HC		1836S	8 x 1.2, 10 x 1.6, 12 x 2.0	414810S	2791 4791RH
			1836T	T40, T45, T50, T55		

# Socket & Wrench Set

## SC7396MR

Metal case size (mm) :  
422 x 275 x 85 (0.35cuft)

Contents

5.5 1/4

2335M	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
2235M	6, 8, 10, 12, 13, 14
4335MRC	10, 12, 13, 14, 15, 16, 17, 18, 19, 22, 23, 27, 32
4535M	15, 16, 17, 19, 24
1060	8, 10, 12, 13, 14, 15, 16, 17, 18, 19
1836H	H8, H10, H12, H14
1836T	T50, T55, T60
1025S	3.0, 4.0, 5.0, 6.0
1025P	PH1, PH2 x 2, PH3
1025Z	PZ1, PZ2 x 2, PZ3
1025T	T10, T15, T20, T25, T27, T30, T40
1025H	H3, H4, H5, H6
1025U	T10H, T15H, T20H, T25H, T27H, T30H, T40H
1025R	RB2
753-63	
7702-25	
2766-55G	4766-10G
2571-45H	2179DF
4222-10	2222-02  2141
2791	4791RH  3824  414810S



96  
PC.

# Socket & Wrench Set

**SC7096MR**

Blow case size (mm) :  
422 x 275 x 85 (0.35 cuft)

**SC7596MR**

1/4"+1/2"

96  
PC.



KT NO.

Contents

6.22 1/4

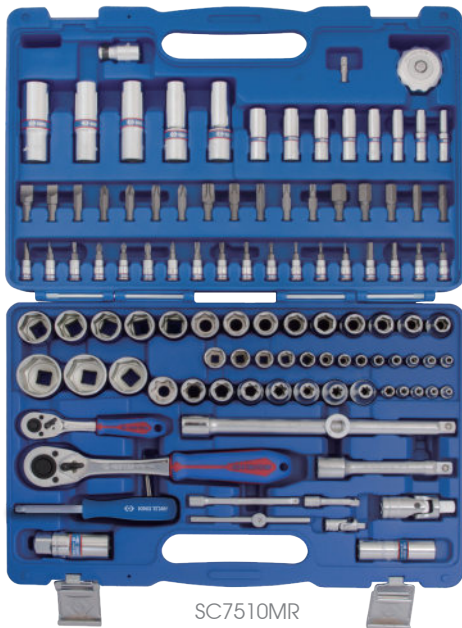
KT NO.	Contents	Weight	Volume
SC7096MR	2330M 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14	2031 PH1, PH2	2766-55G
	2230M 6, 7, 8, 9, 10, 11, 12, 13	2032 4, 5.5, 6.5	4766-10G
	4230MC 14, 15, 17, 19, 22	2033 T8, T10, T15, T20, T25, T27, T30	2179DF
	4330MRC 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32	2035 H3, H4, H5, H6	4222-10
	463016RC	2038 PZ1, PZ2	2222-02
	463021HC	1836P PH3, PH4	2222-04
SC7596MR	2335M 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14	1836S 8x1.2, 10x1.6, 12x2.0	4251-05RH
	2235M 6, 7, 8, 9, 10, 11, 12, 13	1836T T40, T45, T50, T55	2571-45H
	4235MC 14, 15, 17, 19, 22	1836H H7, H8, H10, H12, H14	2791
	4335MRC 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32	1836Z PZ3, PZ4	4791RH
	463516HC	1115-03 1.5, 2, 2.5	414810S
	463521HC		3824



# Socket & Wrench Set

## SC7010MR

Blow case size (mm) :  
422 x 275 x 85 (0.35 cuft)



SC7010MR




























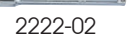























## SC7510MR

1/4"+1/2"



SC7010MR

110  
PC.

KT NO.	Contents		kg 6.90	1 / 4
SC7010MR	  2330M 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14	  E4, E5, E6, E7, E8 2375M		2766-55G
	  2230M 6, 7, 8, 9, 10, 11, 12, 13	  E10, E11, E12, E14, E16, E18, E20, E24 4375M		4766-10G
	  4230MC 14, 15, 17, 19, 22	 PH1, PH2 2031		2179DF
	  4330MRC 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32	 4, 5.5, 6.5 2032		4222-10
	  463016RC   463021HC	 T8, T10, T15, T20, T25, T27, T30 2033		2571-45H
SC7510MR	  2335M 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14	 H3, H4, H5, H6 2035		2222-02 2222-04
	  2235M 6, 7, 8, 9, 10, 11, 12, 13	 PZ1, PZ2 2038		4251-05RH
	  4235MC 14, 15, 17, 19, 22	 PH3, PH4 1836P		2791 4791RH
	  4335MRC 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32	 8x1.2, 10x1.6, 12x2.0 1836S		3824
	  463516HC   463521HC	 T40, T45, T50, T55, T60 1836T		414810S
	 H7, H8, H10, H12, H14 1836H		7702-25	
	 PZ3, PZ4  1115-03	1.5, 2, 2.5		2745

# Socket & Wrench Set

**SC9043MR**

Blow case size (mm) :  
560 x 400 x 110 (0.87 cuft)



**SC9543MR**

**1/4"+3/8"+1/2"**

**143  
PC.**



KT NO.	Contents		13.7	1 / 2
SC9043MR	2330M 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10	2375M E4, E5, E6, E7, E8	1060 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24	
	4330MRC 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 30, 32	3330M 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 21, 22	1930 8 x 10, 10 x 12, 11 x 13, 12 x 14, 17 x 19	
	463016RC  463021HC	4375MC E10, E12, E14, E16, E20	1145MR H1.5, H2, H2.5, H3, H4, H5, H6, H8, H10	
		1025P PH0, PH1, PH2, PH3	2222-02 2222-04 2222-06	3221-03 3221-06 4251-03R
		1025S 4, 5.5, 7		
		1025U T10H, T15H, T20H, T25H, T27H, T30H, T40H	4222-10 3781-11F	2312-06 4452-18FR 2179DF 2141
SC9543MR	2335M 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10	1025H H2, H3, H4, H5, H6, H7, H8, H10	4581-10 2766-55G	79831 4766-10G 6011-10R
	4335MRC 8, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 30, 32	1025Z PZ0, PZ1, PZ2, PZ3	1421 1461	6111-07 6011-10R
	463516HC  463521HC	1422 6.5 x 38, 5.5 x 75	1462 6.5 x 150	79093-03M 3824 3812 2791 3792 4791RH 7821-30

# Ball Hex Key

## ST1120MR



- Extra long arm with ball point type
- DIN ISO 2936



KT NO.	mm	mm	mm	g	kg
ST112012MR	H12	57	262	283	8 / 48
ST112014MR	H14	70	294	441	8 / 48
ST112017MR	H17	80	337	740	4 / 32
ST112019MR	H19	89	379	1044	4 / 16

## ST1145MR



- Standard arm type
- Hex head
- DIN ISO 2936



KT NO.	mm	mm	mm	g	kg
ST114512MR	H12	57	137	166	10 / 120
ST114514MR	H14	70	154	261	6 / 72
ST114517MR	H17	80	177	439	4 / 48
ST114519MR	H19	89	199	619	4 / 32

# Hex Key Set

## ST20219MR



9 PC.

Spec.	Contents	g	kg
Standard arm	ST1145MR	300	6 / 48

## ST20209MR



9 PC.

Spec.	Contents	g	kg
Extra long arm	ST1125MR	480	8 / 48

## ST20213MR



13 PC.

Spec.	Contents	g	kg
Standard arm hex-head key	ST1145MR	1880	2 / 8

## ST20208MY



8 PC.

Spec.	Contents	g	kg
Extra long arm	ST1125MY	480	8 / 48



# Hex Key Set

ST20109MR



9  
PC.

Spec. Contents 0.48 8 / 48

Extra long arm / ball H1.5, H2, H2.5, H3, H4, H5, H6, H8, H10

ST20419PR



9  
PC.

Spec. Contents 470 8 / 48

Extra long arm / Tamper resistant T10H, T15H, T20H, T25H, T27H, T30H, T40H, T45H, T50H

ST20203MR



13  
PC.

Spec. Contents 330 1 / 4

Extra long arm / ball H2, H2.5, H3, H4, H5, H6, H7, H8, H10, H12, H14, H17, H19

ST20203SR



13  
PC.

Spec. Contents 330 1 / 4

Extra long arm / ball 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 3/4

# Tool Trolley

ST87432-5B

## 5 Drawer & 7 Drawer Tool Trolley

- Heavy duty ball bearing slides
- 5"x1-1/4" casters with locking break
- One piece wall constructed and powder coating
- Central locking system
- Oil can holder / optional side pull handle bar
- 2mm anti-slipping rubber top mat
- Overall size : W670 x D460 x H812 mm

ST87432-5B 52 CUFT 12.64  
ST87434-7B 60

ST87434-7B



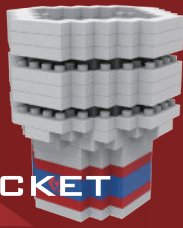
ST87432-5B



ST87434-7B

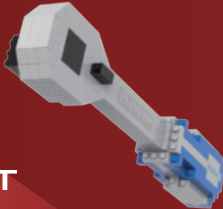
01

HAND SOCKET



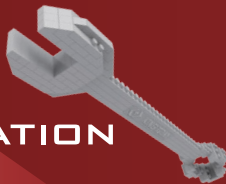
02

RATCHET



03

COMBINATION  
WRENCH



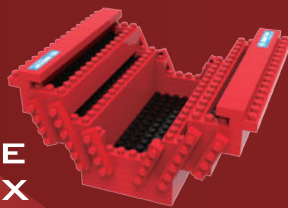
04

PHILLIPS  
SCREWDRIVER



05

PORTABLE  
TOOL BOX



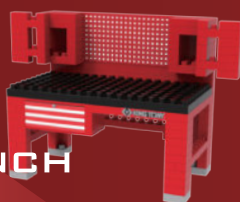
06

SHELF TROLLEY



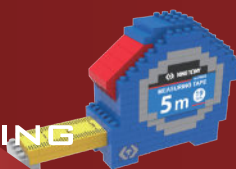
07

WORKBENCH



08

MEASURING  
TAPE



# TOOL DIAMOND BLOCKS

SET A

TS00108



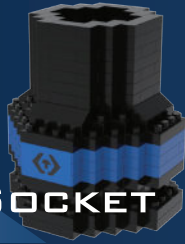
WARNING:

CHOKING HAZARD  
SMALL PARTS, NOT FOR  
CHILDREN UNDER 3 YEARS



01

IMPACT SOCKET



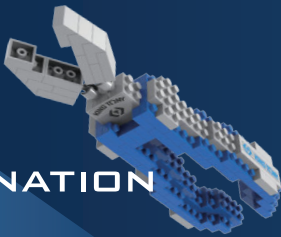
02

IMPACT WRENCH



03

COMBINATION  
PLIERS



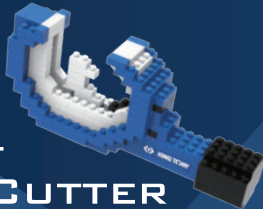
04

SLOTTED  
SCREWDRIVER



05

RATCHET  
TUBING CUTTER



06

TOOL TROLLEY



07

LED LAMP



08

TOOL BOX



# TOOL DIAMOND BLOCKS

SET B

TS00208



**WARNING:**  
CHOKING HAZARD  
SMALL PARTS, NOT FOR  
CHILDREN UNDER 3 YEARS







# Promotional Merchandise

## Business & Office

### Leather Male Wallet



ZS104

Size : 115 x 90 mm

### Briefcase (Leather)



ZS107

Size : 400 x 350 x 80 mm

### Leather Belt (Male)



ZS108

### Ball-Bearing Pen



ZS402

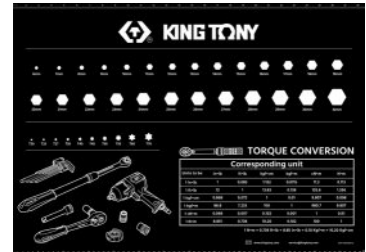
### Notepaper



ZS517

Size : 75 x 75 mm

### Mat



### Ball-Bearing Pen



ZS405

### Mouse Pad



ZS306

Size : 180 x 180 x 3 mm

### Ruler 30cm



ZS408

### A4 Shape Clear File



ZS409

Size : 310 x 220 mm

### Mat



ZS411

Size : 530 x 367 x 2 mm



ZS418K

new

Size : 700 x 500 x 2 mm

## Leisure Products

### Golf Umbrella



ZS116

Size : 68 x 8K

### Personal Cooler Bag



ZS120-S

new

Size : 290 x 150 x 210 mm  
Weight : 352g

### Handbag



ZS119

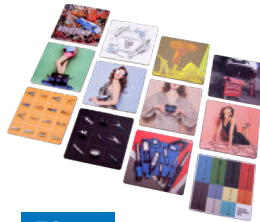
Size : 360 x 380 x 100 mm

### Paper Cup



ZS511

### Coaster



ZS514

Size : 99 x 99 mm

### Stainless Grilling & Barbecue Utensils



ZS572

### Mug



ZS606

new

Size : 900 x 240 mm  
Capacity : 550ml

### Beach Towel



ZS155

ZS155A

Size : 740 x 1400mm  
80% Polyester  
20% Nylon

### Door mat



ZS417

new

Size :  
600 x 900 x 08mm  
PVC

## Merchandise

### Mini Pocket Tools



ZS522

### Mini Pocket Tools



ZS524

### Key Ring



ZS533

### Mini Pocket Tools



ZS540

# Clothes

## Work Clothing



ZS109

	Overall	Waist.(inch)	Hip(inch)
ZS109 - L	34"	48"	
ZS109 - XL	36"	50"	
ZS109 - 2L	38"	52"	
ZS109 - 3L	41"	54"	

## Work Clothing



ZS112

	Overall	Waist.(inch)	Hip(inch)
ZS112 - L	36"	44"	
ZS112 - XL	40"	48"	
ZS112 - 2L	44"	52"	
ZS112 - 3L	48"	56"	

## Work Hat



ZS110

## Hoodie



ZS146

	Overall	Chest girth (inch)
ZS146 - S	51"	
ZS146 - M	53"	
ZS146 - L	56"	
ZS146 - XL	61"	
ZS146 - 2L	64"	

## Windbreaker Jacket



ZS141

	Overall	Chest girth(inch)
ZS141 - S	44"	
ZS141 - M	46"	
ZS141 - L	48"	
ZS141 - XL	50"	
ZS141 - 2L	52"	
ZS141 - 3L	54"	

## T-shirt



ZS142W



ZS142B

	Overall	Shoulder width (inch)	Chest girth (inch)
S	16"	38"	
M	17"	40"	
L	18"	42"	
XL	18-1/2"	44"	
2L	19"	46"	
3L	19.5"	48"	

## Polo-shirt



ZS126

new

	Length (inch)	Sleeve length (inch)	Chest girth (inch)	Shoulder width (inch)
ZS126 - S	27"	9"	41"	18"
ZS126 - M	27.5"	9"	43"	19"
ZS126 - L	28"	10"	45"	20"
ZS126 - XL	29"	10"	47"	20.5"
ZS126 - 2L	29"	10"	50"	21.5"





# Sales Support

## Small Flag



**ADFLAG**

Size : 254 x 160 mm

## Big Flag



**ADFLAG1**

Size : 930 x 1430 mm

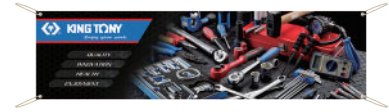
## Outdoor Flag



**ADFLAG2**

Size : 2100 x 600 mm

## Canvas Strip



**ADCV-01**



**ADCV-02**

Size : 3000 x 800 mm

## Stickers



**ADSTK21KT** 909 x 450 mm

**ADSTK22KT** 506 x 226 mm

**ADSTK23KT** 264 x 42 mm

## Stickers



**ADSTK31KT**

Size : 660 x 160 mm

## Stickers



**ADSTK-C1**

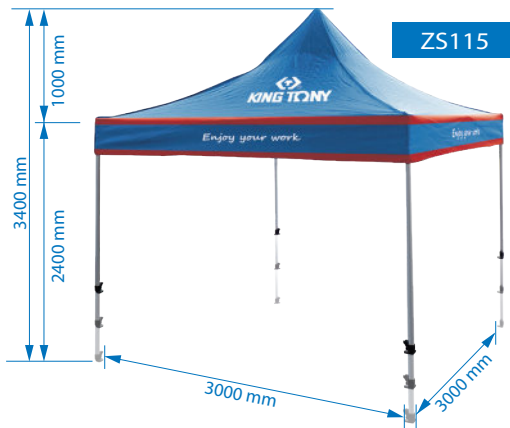
Size : ø - 250 mm



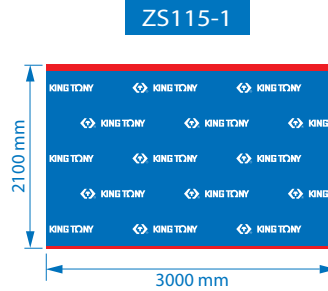
**ADSTK-H2**

Size : ø - 250 mm

## Folding Tent



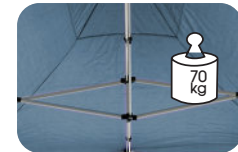
**ZS115**



**ZS115-1**



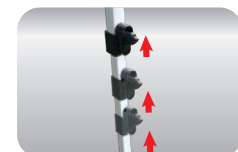
• Full truss structure



• Hanging capacity up to 70 kgs



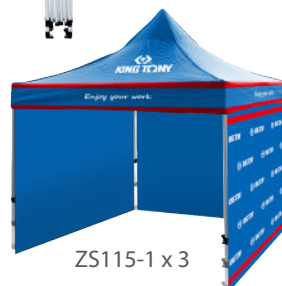
• Foot pad comes with stake hole



• 3 section of height adjustment

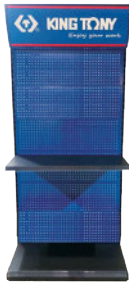
- Quick and easy to set up
- Tent roof made of high quality 600D fabric
- Waterproof and UV resistant
- Full structure made of robust steel
- Adjustable height, max to 3400 mm
- Includes practical carrier bag

KT NO.	Spec.	Height (mm)	kg	Box
<b>ZS115</b>	3000 x 3000 mm (not included ZS115-1)	3400	22	1 / 1
<b>ZS115-1</b>	2100 x 3000 mm Side curtain	-	0.9	1 / 15



# Display Stand Series

## Display Stand



87306A

Overall Size -  
W 1000 x D 500 x H 2200 mm  
Attachment-  
1 PC. lamp case  
2 PC. shelf  
6 PC. steel plate with hole  
40 PC. Black hooks  
(170 x Ø3.6mm)  
Weight - 46 Kg / Cuft - 5.9

## Double-sided Display Stand



87307A

Overall Size -  
W 1000 x D 960 x H 2200 mm  
Attachment-  
2 PC. Lamp case(1 LED , 2 spotlights )  
4 PC. Shelf  
12 PC. Steel plate with hole  
40 PC. Hooks  
Weight - 75 Kg / Cuft - 12.16

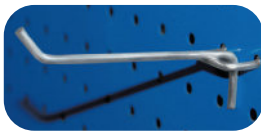
## Display Board



87203

Wall hanging type 30 PC. hook included  
Overall Size -  
W 725 x D 14 x H 900 mm  
Weight - 11.50 Kg / Cuft - 0.328

## Display Hook



■ 87301-494A 4" x Ø 4 mm  
■ 87301-496A 6" x Ø 5.2 mm  
■ 87301-498A 8" x Ø 5.2 mm  
■ 87301-499A 9" x Ø 8 mm

## Display Stand



87301-36(White)

Overall Size -  
W 902 x D 268 x H 143 mm  
Weight - 6.5 Kg / Cuft - 0.62



## Hammer Hook



91431

Overall Size -  
W 40 x D 210 x H 240 mm  
Weight - 411.6 g / Cuft - 0.072

## Steel Rack Hook



91432

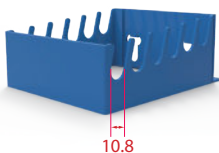
Idea for hanging display & presenting tool set  
230mm maximum depth  
5kg maximum tool weight (heavier & longer items, you can put 2 PC. to hold)

## Impact Wrench Hook



■ 91451-01A(1/4"-19 BSPT)  
■ 91451-01B(1/4"-18 NPT)  
■ 91451-01F(1/4"-19 BSPT)

## Wrench Display

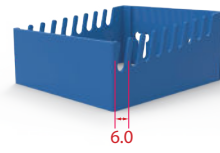


87157-06

Capacity : 6 PC.  
For all measuring tape  
(1900 27x30~41x46 Series)  
Size:100x100x46mm  
Weight - 0.22 Kg  
Cuft - 0.72



## Wrench Display



87157-09

Capacity : 9 PC.  
For all measuring tape  
(1900 5.5x7~27x29 Series)  
Size:100x100x46mm  
Weight - 0.22 Kg  
Cuft - 0.72



### Side Panel for Display Stand



**ADVT-04**  
Size : 240 x 900 mm

### Side Panel for Display Stand



**ADVT-05**  
Size : 240 x 900 mm

### Magnetic Base

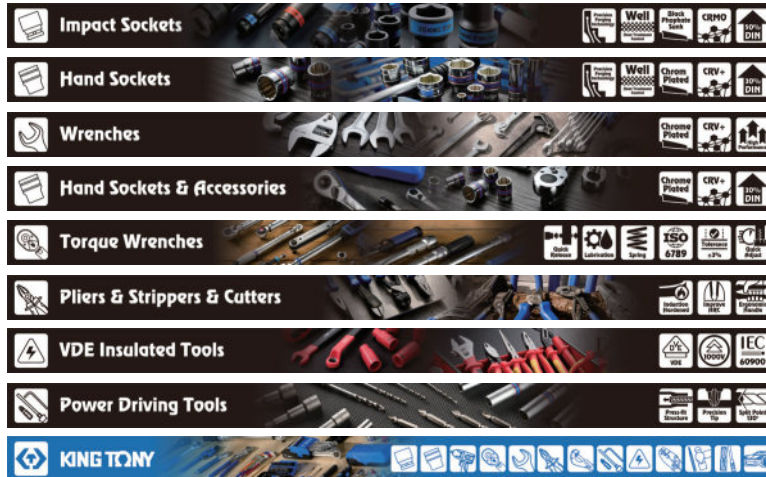


**91422**

### Signage for Display Stand



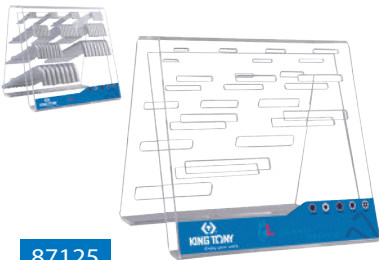
**ADVT-03X**  
Size : 960 x 55 mm  
Magent



- ADVT-031
- ADVT-032
- ADVT-033
- ADVT-034
- ADVT-035
- ADVT-036
- ADVT-037
- ADVT-038
- ADVT-039

## Tool Display

### Display Shelf for L-wrench



**87125**  
Overall Size - W 220 x D 260 x H 5 mm  
Weight 135g / Cuft 1.10  
Reference : 2020H0MR

### Display Stand



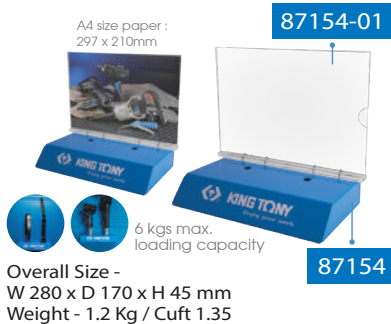
**87152**  
Overall Size -W400 x D230 x H470 mm  
Weight - 1.20 Kg / Cuft - 1.53

### Display Rack for Torque Wrench



**87153**  
Overall Size -W 330 x D 255 x H 475 mm  
Weight - 1.23 Kg / Cuft - 1.41

### Tools Display Stand



A4 size paper : 297 x 210mm  
**87154-01**  
6 kgs max. loading capacity  
**87154**  
Overall Size - W 280 x D 170 x H 45 mm  
Weight - 1.2 Kg / Cuft 1.35

### Impact Wrench Display Stand



A4 size paper : 297 x 210mm  
**87156A**  
Overall Size - W 280 x D 170 x H 45 mm  
Weight - 1.9Kg / Cuft 0.31  
**87156**

#### Contents

	87156
	87154-01
	SY-210M x3
	SY-20A x6
	SY-10A x3



## Socket Shelf



87102

87103

Width can be adjustable to display multiple socket series  
Single serial socket size tab attached

Overall Size -  
W 415 x D 336 x H 320 mm  
Weight - 6.85 Kg(87102)  
6.37 kg(87103)  
Cuft - 0.67

Reference:  
3568MR  
4072MR / 4572MR  
4072SR / 4572SR  
4066MR / 4566MR  
4066SR  
4472MP/4472SP  
4466MP/4466SP

## Screwdriver Shelf



87105

87107

87111

87105-W 595 x D 240 x H 210 mm  
Weight - 3.40 Kg Cuft - 1.97  
87107-W 383 x D 136 x H 130 mm  
Weight - 0.86 Kg  
87111-W 655 x D 240 x H 210 mm  
Weight - 3.80 Kg Cuft - 2.2

Reference:  
87105 (31416MR)  
(31516MR)  
87107 (31419MR)  
87110 (31512MR)  
87111 (31519MR)

## Impact Wrench Display Stand



- 871061A(1/4"-19 BSPT)
- 871061B(1/4"-18 NPT)
- 871061F(1/4"-19 BSPT)

Reference :  
Applied for 3/8" & 1/2" DR. air tools

## Screwdriver Shelf



87104

Overall Size -  
W 325 x D 205 x H 270 mm  
Weight - 1.20 Kg Cuft - 0.3

## Metal Holder for Flat Chisel



87108

## Metal Holder



8711B

Overall Size -  
W 600 x D 240 x H 60 mm  
Weight - 6.20 Kg  
Cuft - 0.9  
Reference :  
1090PR1









































































































































# Sign List

 Internal hexagon	 External hexagon	 Bi-hexagon	 Spline head	 Spline head - tamper resistant	 Internal torx	 External torx	 External torx - tamper resistant	 Double square
 torx plus-tamper resistant	 torx plus	 Ribe bit socket	 Phillips head	 Slotted head	 Pozidriv	 PlusMinus	 Internal square	 External square
 External square	 Ribe socket 12 mm	 Ribe socket 10 mm	 Axial lock nut	 Square	 Crowfoot	 Hook wrench	 External KM locknut	 Internal KM locknut
 Speical profile for wheel nut	 Claw Pickup	 Internal square	 Hexagon	 Pentagon	 Ball hex	 Flat face - round	 Flat face - square	 Milled square face
 Internal circlip	 External circlip	 Thin serrated	 Coarse serrated	 Smooth	 With opening spring	 Round jaws	 Half-round jaws	 Flat & point jaws
 Soft wire	 Medium hard wire	 Hard wire	 Piano wire	 Europe	 America & Asia	 Australia & New Zealand	 English	 Australia
 Changeable blade	 Guide rollers	 Cutter wheel	 Outside diameter (O.D.)	 Wall thickness	 Inside diameter (I.D.)	 Capacity of open jaw (mm)	 Diameter	
 Center cut	 With bevel	 With small bevel	 With very small bevel	 Without bevel				
 Max. torque	 Air inlet	 Free speed	 Air pressure (90 PSI)	 Std. bolt size	 Air hose	 Anvil type	 Avg. air consumption	 Sound
 Vibration level	 Litre capacity (3L)	 Q'ty / Carton	 Q'ty / Box	 Q'ty / Bag	 Q'ty / Blister card	 Weight (g)/(kg)		
 Light weight	 1000V	 ESD	 ISO	 CE certificate	 VDE certificate	 G.S. approval	 TUV certificate	





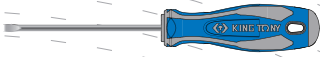
 HGV	 Commercial Vehicles	 Small commercial vehicles	 Passenger cars	 Buses	 Construction vehicles	 Agricultural machinery	 Motorcycles	 Engine series
 Agricultural machinery-tiller	 Chassis	 Steel construction	 Assembly line	 Factory	 Diesel engine	 Petrol engine	 Timing belt	 Timing chain
 Strobe	 IP Protection	 Adjustable lighting	 Lumen	 Lighting for hours	 Watt	 Adjustment button	 Thickness	 Magnetic
 USB cable	 USB charger	 Cable length	 Charging time	 DC charger	 AC charger	 Li-ion battery	 Battery	 IK07/ IP20
 10 cm range								

# Information-General Safety Recommendations



**CAUTION** Please wear proper safety gear while working.





# It all fits together

## ■ DIN screwdrivers

Slotted screws		Size										
		2x0.4	2.5x0.4	3x0.5	3.5x0.6	4x0.8	5.5x1	6.5x1.2	8x1.2	10x1.6		
<b>Metric screws</b>												
Flat head												
	ISO 2009		1.6	2	2.5	3	3.5	4	5			
	DIN 963		1.6	2	2.5	3	3.5	4	5			
Oval head												
	ISO 2010		1.6	2	2.5	3	3.5	4	5			
	DIN 964		1.6	2	2.5	3	3.5	4	5			
Cheese head												
	ISO 1207						3.5	4	5	6		
	DIN 84		1.6	1.8	2	2.5		4	4	5	6	
Pan head												
	ISO 1580		1.6	2	2.5	3	3.5	4	5	6		
	DIN 85					3	3.5	4	5		6	
	DIN 920		2.5	3/3.5	4	5	6	8		10		
	DIN 921		1.6	2	2.5	3	3.5	4		5	6	
Set												
	ISO 4766	DIN 551	2.5	3.5	4	5	6	8				
	7435	417	3									
	ISO 4735	DIN 427	2.5	3.5	4	5	6	8		14		
<b>Self tapping screws</b>												
Flat head												
	ISO 1482			2.2		2.9	3.5	4.2	4.8			
	DIN 7972			2.2		2.9	3.5	3.9	4.8			
Oval head												
	ISO 1483			2.2		2.9	3.5	4.2	4.8			
	DIN 7973			2.2		2.9	3.5	3.9	4.2	4.8	6.3	
Pan head												
	ISO 1481			2.2		2.9	3.5	4.2	4.8	5.5	6.3	
	DIN 7971				2.9	2.9	3.5	4.2	4.8	5.5	6.3	

Phillips + Pozidriv		Size					
		00	0	1	2	3	4
<b>Metric screws</b>							
Flat head							
	ISO 7046	DIN 965	1.6	2.5	3.5	6	8
			2	3	5	10	
Oval head							
	ISO 7047	DIN 966	1.6	2.5	3.5	6	8
			2	3	5	10	
Pan head							
	ISO 7045	DIN 7985	1.6	2.5	3.5	6	8
			1.8	3	5	10	
<b>Self tapping screws</b>							
Flat head							
	ISO 7049	DIN 7981		2.2	3.5	5.5	
				2.9	4.8	6.3	
Oval head							
	ISO 7050	DIN 7982		2.2	3.5	5.5	
				2.9	4.8	6.3	
Pan head							
	ISO 7051	DIN 7983		2.2	3.5	5.5	
				2.9	4.8	6.3	
ANSI screws			0-1	2-4	5-10	12-16	18-...

## ■ How to find the correct screwdriver

	Slotted	Phillips	Pozidriv	Torx	Torx	Square	Hex	Nut
<b>Classic Screwdriver</b>	1412	1411						
<b>SoftFinish Screwdriver</b>	1422	1421	1428	1423	1427	1424		
<b>Classic Screwdriver (Heavy Duty)</b>	1482	1481						
<b>SoftFinish Screwdriver (heavy Duty)</b>	1462	1461						
<b>Nutspinner</b>								1450 5450 1453
<b>SoftFinish Electric</b>	1472	1471	1478					
<b>Precision Screwdriver</b>	1432	1431		1433				
<b>Exchangeable ratchet Screwdriver</b>	32809	32809		32809				
<b>Two-way screwdriver</b>	2411 1317 2431	2411 1317 2431	1317	1317 2433			1317	32810
<b>Torque Screwdriver</b>							3411	





			For torx head screw											
			T5	T6	T7	T8	T9	T10	T15	T20	T25	T27	T30	T40
mm			1.42	1.70	1.99	2.31	2.50	2.74	3.27	3.86	4.43	4.99	5.52	6.65
Metric screws														
	ISO 4762	DIN 912	*	2	*	2.5		3		4	5	**	6	
	ISO 4760	DIN 963 965	*	*	*	2.5		3	3.5	4	5	**	6	8
	ISO 7047 2010	DIN 964 966	*	2	*	2.5		3	3.5	4	5	**	6	
		DIN 7984 6912	*	*	*	2.5		3		4	5	**	6	
	ISO 7045	DIN 7985	*	2	*	2.5		3	3.5	4	5	**	6	
	ISO 10642	DIN 7991	*	*	*	2.5		3		4	5	6	**	8
Self tapping screws														
	ISO 7049	DIN 7981 7982	*	2.2	*	2.9		3.5	3.9	4.2 5.5	4.8	**	6.3	
	ISO 7050	DIN 7972 7983	*	2.2	*	2.9		3.5	3.9	4.2	4.8 5.5	**	6.3	
	ISO 7051	DIN 7973	*	2.2	*			3.5	3.9	4.2	4.8 5.5	**	6.3	8

\* Screws for tungsten carbide inserts


\*\* Special screws


Index		
ISO	International standard	
DIN	German standard	
M	Metric screws	Thread diameter
M	Set screw metric	Thread diameter
M	Metric nut	Thread diameter
B	Self tapping screw	Thread diameter
Symbols		
Tool drive = screwdriver socket		
for screws with internal drive		
Tool drive = Nutdriver socket		
for screws with head drive		








# Bits / Sockets for S size


 <b>TORX internal screw</b>		T5	T6	T7	T8	T9	T10	T15	T20	T25	T27
	⚙️S(ref.mm)	1.42	1.7	2	2.32	2.5	2.74	3.28	3.86	4.43	4.99
	Screws(ref)	M1.5	M2	M2.5	M2.5	M3	M3/M3.5	M3.5/M4	M4/M5	M4.5/M5	M4.5/M5/M6
		T30	T40	T45	T50	T55	T60	T70	T80	T90	T100
	⚙️S(ref.mm)	5.52	6.65	7.82	8.84	11.23	13.26	15.54	17.58	19.95	22.16
	Screws(ref)	M6/M7	M7/M8	M8/M10	M10	M12	M14	M16	M18	M20	M22

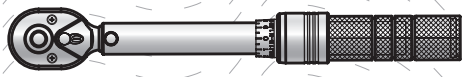
 <b>SPLINE</b>		M4	M5	M6	M8	M10	M12	M14	M16	M18	M20
	⚙️S(ref.mm)	3.6	4.8	6	7.2	9.6	11.41	13.22	15.63	16.85	19.25
	Screws(ref)	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20

 <b>RIBBLE</b>		M5	M6	M7	M8	M9	M10	M12	M13	M14	M16
	⚙️S(ref.mm)	5	6	7	8	9	10	12	13	14	16
	⚙️W(ref.mm)	1.1	1.3	1.4	1.7	1.9	2.2	2.6	3	3.1	3.5
	Screws(ref)	M6	M8		M10	M10	M12				

 <b>IPR</b>		IPR8	IPR9	IPR10	IPR15	IPR20	IPR25	IPR27	IPR30	IPR40	IPR45	IPR50	IPR55	IPR60
	⚙️S(ref.mm)	2.14	2.33	2.58	3.07	3.63	4.16	4.70	5.22	6.27	7.32	8.32	10.54	12.45

 <b>TORX external screw</b>		E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20
	⚙️S(ref.mm)	3.83	4.72	5.69	6.17	7.47	9.37	10.03	11.12	12.85	14.71	16.64	18.41
	Screws(ref)	M3	M4	M5	M6	M6/M7	M8	M8/M10	M10	M12	M12	M14	M16
		E22	E24	E26	E28	E30	E32	E34	E36	E38	E40	E42	E44
	⚙️S(ref.mm)	20.24	22.1	23.85	25.65	27.38	29.16	30.96	32.82	34.67	36.37	38.2	39.98
	Screws(ref)	M18	M18/M20										

 <b>SQUARE</b>		RB00	RB0	RB1	RB2	RB3	RB4
	⚙️S(ref.mm)	1.30	1.80	2.30	2.86	3.38	4.85



# Torque Data

Bolt	Nut	Washer	Bolts and nuts classes (SAE threads, triangular shape, high pitch 0.15 coefficient)					
			4.8 Torque N · m	5.8 Torque N · m	6.8 Torque N · m	8.8 Torque N · m	10.9 Torque N · m	12.9 Torque N · m
M3	5.5	2.5	0.64	0.8	0.91	1.21	1.79	2.09
M4	7	3	1.48	1.83	2.09	2.78	4.09	4.79
M5	8	4	2.93	3.62	4.14	5.5	8.1	9.5
M6	10	5	5	6.2	7.1	9.5	14	16.4
M8	13	6	12.3	15.2	17.4	23	34	40
M10	16	8	24	30	34	46	67	79
M12	18	10	42	52	59	79	116	136
M14	21	12	67	83	94	127	187	219
M16	24	14	105	130	148	198	291	341
M18	27	14	145	179	205	283	402	471
M20	30	17	206	254	291	402	570	667
M22	34	17	283	350	400	552	783	917
M24	36	19	354	438	500	691	981	1148
M27	41	19	525	649	741	1022	1452	1700
M30	46	22	712	880	1005	1387	1969	2305
M33	50	24	968	1195	1366	1884	2676	3132
M36	55	27	1242	1534	1754	2418	3435	4020
M39	60		1614	1994	2279	3139	4463	5223
M42	65	32	1995	2464	2816	3872	5515	6453
M45	70		2497	3085	3525	4847	6903	8079
M48	75	36	3013	3722	4254	5849	8330	9748
M52	80		3882	4795	5480	7535	10731	12558
M56	85	41	4839	5978	6832	9394	13379	15656
M60	90		6013	7428	8490	11673	16625	19455
M64	95	46	7233	8935	10212	14041	19998	23402

\* In order not over-tighten the fastener, please refer manufacturer's service manual, or TORQUE DATA for tightening torque information

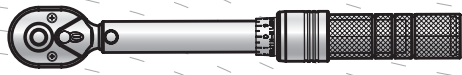
\* Torque tightening is refer to "thread dimension" of screw, which is M3~M64 size mention above table



# Torque Conversion


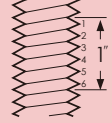




Units to be	Corresponding unit					
	in · lb	ft · lb	kgf · cm	kgf · m	cN · m	N · m
1 in · lb	1	0.083	1.152	0.0115	11.3	0.113
1 ft · lb	12	1	13.83	0.138	135.6	1.356
1 kgf · cm	0.868	0.072	1	0.01	9.807	0.098
1 kgf · m	86.8	7.233	100	1	980.7	9.807
1 cN · m	0.088	0.007	0.102	0.001	1	0.01
1 N · m	8.851	0.738	10.20	0.102	100	1

$$1 \text{ N} \cdot \text{m} = 0.738 \text{ ft} \cdot \text{lb} = 8.85 \text{ in} \cdot \text{lb} = 0.10 \text{ Kgf} \cdot \text{m} = 10.20 \text{ Kgf} \cdot \text{cm}$$



# Torque Data

## IMPERIAL

 inch	 threads per inch	Bolts and nuts classes (SAE threads, triangular shape, high pitch 0.15 coefficient)			
		 Torque ft · lb	 Torque ft · lb	 Torque ft · lb	 Torque ft · lb

### Coarse Thread Series

<b>1/4</b>	20	32 in · lb	76 in · lb	107 in · lb	126 in · lb
<b>5/16</b>	18	66 in · lb	157 in · lb	221 in · lb	259 in · lb
<b>3/8</b>	16	10	23	33	38
<b>7/16</b>	14	16	37	52	61
<b>1/2</b>	13	24	57	80	94
<b>9/16</b>	12	35	82	115	135
<b>5/8</b>	11	48	113	159	186
<b>3/4</b>	10	85	200	282	331
<b>7/8</b>	9	136	322	455	533
<b>1</b>	8	204	483	681	799
<b>1-1/4</b>	7	409	840	1363	1597
<b>1-1/2</b>	6	711	1462	2371	2779

### Fine Thread Series

<b>1/4</b>	28	37 in · lb	87 in · lb	123 in · lb	144 in · lb
<b>5/16</b>	24	73 in · lb	174 in · lb	245 in · lb	287 in · lb
<b>3/8</b>	24	11	26	37	43
<b>7/16</b>	20	18	41	58	68
<b>1/2</b>	20	27	64	90	105
<b>9/16</b>	18	39	91	128	151
<b>5/8</b>	18	54	127	180	211
<b>3/4</b>	16	94	223	315	369
<b>7/8</b>	14	150	355	502	588
<b>1</b>	14	229	542	765	896
<b>1-1/4</b>	12	453	930	1509	1768
<b>1-1/2</b>	12	800	1645	2668	3127

\* note : Torque-Tension relationship for ASTM A307 Grade A(SAE J2), SAE J429 Grade 5, SAE J429 Grade 8 & FNL Grade 9 Bolts

\* note : Torque values for 1/4" and 5/16" are in in·lb. All other torque values are in ft·lb



# Hanger No. List

	Hanger No.	Suitable Size	Hanger No. (with product)
Socket Hanger for 1/4" DR. Socket	08782100  + 	1/4"DR. Socket	 KT No. & D1
Socket Hanger for 3/8" DR. Socket	08783100  + 	3/8"DR. Socket	 KT No. & D1
Socket Hanger for 1/2" DR. Socket	08784100  + 	1/2"DR. Socket	 KT No. & D1
Socket Hanger for 3/4" DR. Socket	08786100  + 	3/4"DR. Socket	 KT No. & D1
Hanger for 1/4" DR. Accessories	08782102  + 	1/4"DR. Ratchet, sliding T-handle, flexible handle	 KT No. & D1
Hanger for 3/8" DR. Accessories	08783102  + 	3/8"DR. Ratchet, sliding T-handle, flexible handle	 KT No. & D1
Hanger for 1/2" DR. Accessories	08784102  + 	1/2"DR. Ratchet, sliding T-handle, flexible handle	 KT No. & D1
Hanger for Wrench	8781103 choose suitable hangers according to different sizes  +  + 	For example,1060 6~9mm	 KT No. & D1
Hanger for Wrench & Nut Spinner	8781100 choose suitable hangers according to different sizes  +  + 	For example,1060 10~19mm & nut spinner	 KT No. & D1
Hanger for Wrench	8781101 choose suitable hangers according to different sizes  +  + 	For example,1060 20~23mm	 KT No. & D1
Hanger for Wrench	8781102 choose suitable hangers according to different sizes  +  + 	For example,1060 24~32mm	 KT No. & D1
Hanger for Speed Wrench	087837(size)KT  + 	Speed wrench, open-side speed wrench size, 8~24mm	 KT No. & D1
Hanger for Screwdriver	8785100 choose suitable rubber rings according to different sizes  +  + 	Screwdriver, hex key, spline L-wrench, star L-wrench, L-type wrench, T-type wrench	 KT No. & D1
Hanger for Power Driving	8785001  + 	Power driving 9.5mm groove	 KT No. & D1

# Index .....

## 10 xxx

1005APR.....	472	102505S1.B .....	388	102530V .....	388	1060-18 .....	322	1063-30 .....	324	1081-10 .....	341
1005GQ.....	495	102506H .....	388	102535S1 .....	388	1060-19 .....	322	1063-32 .....	324	1081-11 .....	341
1006APR.....	472	102506H.B .....	388	102535S1.B .....	388	1060-20 .....	322	1067-06 .....	324	1081-12 .....	341
1006GPN.....	474	102506M .....	388	102535T .....	388	1060-21 .....	322	1067-07 .....	324	1081-13 .....	341
1006PR.....	473	102506S1 .....	388	102535T.B .....	388	1060-22 .....	322	1067-08 .....	324	1081-14 .....	341
1006PRN.....	473	102506S1.B .....	388	102540T .....	388	1060-23 .....	322	1067-09 .....	324	1081-15 .....	341
1009GPN.....	474	102506T .....	388	102540T.B .....	388	1060-24 .....	322	1067-10 .....	324	1081-16 .....	341
1009PR.....	473	102506T.B .....	388	102540U .....	388	1060-25 .....	322	1067-11 .....	324	1081-17 .....	341
1009PRN.....	473	102507H .....	388	102540U.B .....	388	1060-26 .....	322	1067-12 .....	324	1081-18 .....	341
1010CMR.....	406	102507H.B .....	388	102540V .....	388	1060-27 .....	322	1067-13 .....	324	1081-19 .....	341
1010PR.....	473	102507S1 .....	388	102545S1 .....	388	1060-28 .....	322	1067-14 .....	324	1081-20 .....	341
1011MQ.....	392	102507S1.B .....	388	102545S1.B .....	388	1060-29 .....	322	1067-15 .....	324	1081-21 .....	341
1014GPN.....	474	102507T .....	388	102545T .....	388	1060-30 .....	322	1067-16 .....	324	1081-22 .....	341
1015GQ.....	495	102507T.B .....	388	102545T.B .....	388	1060-32 .....	322	1067-17 .....	324	1081-23 .....	341
1015MQ.....	392	102507U .....	388	102550T .....	388	1060-55 .....	322	1067-18 .....	324	1081-24 .....	341
1015PQ.....	392	102507U.B .....	388	102550T.B .....	388	1061-06 .....	319	1067-19 .....	324	1081-25 .....	341
1016PR.....	473	102508H .....	388	102550S1 .....	388	1061-07 .....	319	1067-20 .....	324	1081-26 .....	341
1020-08.....	333	102508H.B .....	388	102555S1 .....	388	1061-08 .....	319	1067-21 .....	324	1081-27 .....	341
1020-09.....	333	102508M .....	388	102555S2 .....	388	1061-09 .....	319	1067-22 .....	324	1081-28 .....	341
1020-10 .....	333	102508S1 .....	388	102555S2.B .....	388	1061-10 .....	319	1067-23 .....	324	1081-29 .....	341
1020-11 .....	333	102508S1.B .....	388	102565S1 .....	388	1061-11 .....	319	1067-24 .....	324	1081-30 .....	341
1020-12 .....	333	102508S2 .....	388	102565S1.B .....	388	1061-12 .....	319	1067-25 .....	324	1081-32 .....	341
1020-13 .....	333	102508S2.B .....	388	1025PRN.....	473	1061-13 .....	319	1067-26 .....	324	1084-08 .....	340
1020-14 .....	333	102508T .....	388	1026CQ-AM .....	397	1061-14 .....	319	1067-27 .....	324	1084-09 .....	340
1020-15 .....	333	102508T.B .....	388	1031-10R .....	331	1061-15 .....	319	1067-28 .....	324	1084-10 .....	340
1020-16 .....	333	102508U .....	388	1031-11R .....	331	1061-16 .....	319	1067-29 .....	324	1084-11 .....	340
1020-17 .....	333	102508U.B .....	388	1031-12R .....	331	1061-17 .....	319	1067-30 .....	324	1084-12 .....	340
1020-18 .....	333	102508V .....	388	1031-13R .....	331	1061-18 .....	319	1067-32 .....	324	1084-13 .....	340
1020-19 .....	333	102509T .....	388	1031-14R .....	331	1061-19 .....	319	1071-33 .....	322	1084-14 .....	340
1023EQ .....	392	102509T.B .....	388	1031-15R .....	331	1061-20 .....	319	1071-34 .....	322	1084-15 .....	340
1025PRN.....	473	102509U .....	388	1031-16R .....	331	1061-21 .....	319	1071-35 .....	322	1084-16 .....	340
102500P .....	388	102509U.B .....	388	1031-17R .....	331	1061-22 .....	319	1071-36 .....	322	1084-17 .....	340
102500P.B .....	388	102509V .....	388	1031-18R .....	331	1061-23 .....	319	1071-38 .....	322	1084-18 .....	340
102500R .....	389	102510H .....	388	1031-19R .....	331	1061-24 .....	319	1071-41 .....	322	1084-19 .....	340
102500R.B .....	389	102510H.B .....	388	1031-22R .....	331	1061-25 .....	319	1071-42 .....	322	1090PR1 .....	472
102501P .....	388	102510M .....	388	1031-24R .....	331	1061-26 .....	319	1071-44 .....	322	10A0-24 .....	334
102501P.B .....	388	102510T .....	388	1031-26R .....	331	1061-27 .....	319	1071-46 .....	322	10A0-27 .....	334
102501R .....	389	102510T.B .....	388	1031-27R .....	331	1061-28 .....	319	1071-48 .....	322	10A0-30 .....	334
102501R.B .....	389	102510T-S1 .....	398	1031-30R .....	331	1061-29 .....	319	1071-50 .....	322	10A0-32 .....	334
102501Z .....	389	102510U .....	388	1031-32R .....	331	1061-30 .....	319	1071-55 .....	322	10A0-36 .....	334
102501Z.B .....	381	102510U.B .....	388	1031-33R .....	331	1061-32 .....	319	1071-60 .....	322	10A0-41 .....	334
102502P .....	388	102510V .....	388	1031-34R .....	331	1062-06 .....	320	1071-65 .....	322	10A0-46 .....	334
102502P.B .....	388	102512P .....	388	1031-35R .....	331	1062-07 .....	320	1071-70 .....	322	10A0-50 .....	334
102502P.B .....	388	102512P.B .....	388	1031-36R .....	331	1062-08 .....	320	1071-75 .....	322	10A0-55 .....	334
102502P-S1 .....	398	102515H .....	388	1031-38R .....	331	1062-09 .....	320	1071-80 .....	322	10A0-60 .....	334
102502H .....	388	102515H.B .....	388	1031-41R .....	331	1062-10 .....	320	1071-85 .....	322	10A0-65 .....	334
102502H.B .....	388	102515T .....	388	1031-46R .....	331	1062-11 .....	320	1080-06 .....	341	10A0-70 .....	334
102502R .....	389	102515T.B .....	388	1031-48R .....	331	1062-12 .....	320	1080-07 .....	341	10A0-75 .....	334
102502R.B .....	389	102515T-S1 .....	398	1031-50R .....	331	1062-13 .....	320	1080-08 .....	341	10A0-80 .....	334
102502Z .....	389	102515U .....	388	1032CQ .....	398	1062-14 .....	320	1080-09 .....	341	10A0-85 .....	334
102502Z.B .....	389	102515U.B .....	388	1032CQ01 .....	398	1062-15 .....	320	1080-10 .....	341	10A0-90 .....	334
102502Z-S1 .....	398	102515V .....	388	1035MR .....	408	1062-16 .....	320	1080-11 .....	341	10A0-95 .....	334
102503H .....	388	102520T .....	388	1036MR .....	408	1062-17 .....	320	1080-12 .....	341	10A0-A0 .....	334
102503H.B .....	388	102520T.B .....	388	1036ZQ .....	496	1062-18 .....	320	1080-13 .....	341	10A0-A5 .....	334
102503P .....	388	102520T-S1 .....	398	1040CQ .....	392	1062-19 .....	320	1080-14 .....	341	10A0-B0 .....	334
102503P.B .....	388	102520U .....	388	1041CQ-EB .....	411	1062-20 .....	320	1080-15 .....	341	10A0-B5 .....	334
102503R .....	389	102520U.B .....	388	1042CQ .....	392	1062-21 .....	320	1080-16 .....	341	10A0-C0 .....	334
102503R.B .....	389	102520V .....	388	1043CQ .....	392	1062-22 .....	320	1080-17 .....	341	10A0-C5 .....	334
102503S1 .....	388	102525H .....	388	1044CQ .....	393	1062-23 .....	320	1080-18 .....	341	10B0-24 .....	334
102503S1.B .....	388	102525H.B .....	388	1044MR .....	408	1062-24 .....	320	1080-19 .....	341	10B0-26 .....	334
102503Z .....	389	102525T .....	398	1045MR .....	409	1062-25 .....	320	1080-20 .....	341	10B0-27 .....	334
102503Z.B .....	389	102525T.B .....	388	1045MR01-EB .....	410	1062-26 .....	320	1080-21 .....	341	10B0-30 .....	334
102504H .....	388	102525T-S1 .....	398	1048MR .....	394	1062-27 .....	320	1080-22 .....	341	10B0-32 .....	334
102504H.B .....	388	102525U .....	388	1049CQ .....	409	1062-28 .....	320	1080-23 .....	341	10B0-36 .....	334
102504M .....	388	102525U.B .....	388	1060-06 .....	322	1062-29 .....	320	1080-24 .....	341	10B0-41 .....	334
102504P .....	388	102525V .....	388	1060-07 .....	322	1062-30 .....	320	1080-25 .....	341	10B0-46 .....	334
102504P.B .....	388	102527T .....	388	1060-08 .....	322	1062-32 .....	320	1080-26 .....	341	10B0-50 .....	334
102504S1 .....	388	102527T.B .....	388	1060-09 .....	322	1063-06 .....	324	1080-27 .....	341	10B0-55 .....	334
102504S1.B .....	388	102527U .....	388	1060-10 .....	322	1063-08 .....	324	1080-28 .....	341	10B0-60 .....	334
102504S2 .....	388	102527U.B .....	388	1060-11 .....	322	1063-11 .....	324	1080-29 .....	341	10B0-65 .....	334
102504S2.B .....	388	102527V .....	388	1060-12 .....	322	1063-14 .....	324	1080-30 .....	341	10B0-70 .....	334
102505H .....	388	102530T .....	388	1060-13 .....	322	1063-15 .....	324	1080-32 .....	341	10B0-75 .....	334
102505H.B .....	388	102530T.B .....	388	1060-14 .....	322	1063-16 .....	324	1081-06 .....	341	10B0-80 .....	334
102505M .....	388	102530T-S1 .....	398	1060-15 .....	322	1063-18 .....	324	1081-07 .....	341	10B0-85 .....	334
102505S1 .....	388	102530U .....	388	1060-16 .....	322	1063-21 .....	324	1081-08 .....	341	10B0-90 .....	334
		102530U.B .....	388	1060-17 .....	322	1063-22 .....	324	1081-09 .....	341	10B0-95 .....	334

# Index .....

10B0-A0 .....	334	10GOVE-11 .....	429	112576 .....	334	114503MR .....	412	115H12M-10 .....	346	1207MR .....	323
10B0-A5 .....	334	10GOVE-12 .....	429	112605MR .....	413	114504MR .....	412	115H13M-10 .....	346	1207SR .....	323
10B0-B0 .....	334	10GOVE-13 .....	429	112606MR .....	413	114505MR .....	412	115H13M-14 .....	346	1208MR .....	323
10B0-B5 .....	334	10GOVE-14 .....	429	112608MR .....	413	114506MR .....	412	116002MR .....	420	1210MR .....	323
10B0-C0 .....	334	10GOVE-15 .....	429	112610MR .....	413	114507MR .....	412	116003MR .....	420	12107MRN .....	336
10B0B-24.....	N15	10GOVE-16 .....	429	112612MR .....	413	114508MR .....	412	116004MR .....	420	12107MRN01.....	336
10B0B-26.....	N15	10GOVE-17 .....	429	112710R .....	416	114510MR .....	412	116005MR .....	420	12109MRS01 .....	321
10B0B-E18.....	N15	10GOVE-18 .....	429	112715R .....	416	114515MR .....	412	116006MR .....	420	1211MR .....	323
10B0B-E20.....	N15	10GOVE-19 .....	429	112720R .....	416	114525MR .....	412	116007MR .....	420	1211MRN .....	323
10B0B-E24.....	N15	10GOVE-21 .....	429	112725R .....	416	114555MR .....	412	116008MR .....	420	1211SR .....	323
10C0-24 .....	334	10GOVE-22 .....	429	112727R .....	416	114605MR .....	413	116010MR .....	420	1211SR01 .....	323
10C0-27 .....	334	10GOVE-24 .....	429	112730R .....	416	114606MR .....	413	116025MR .....	420	1211SR02 .....	323
10C0-30 .....	334	<b>11 xxx</b>		112740R .....	416	114608MR .....	413	116310R .....	420	12112MRN .....	336
10C0-32 .....	334	<b>110115SQ.....</b>	<b>N20</b>	112745R .....	416	114610MR .....	413	116310TR .....	420	12112MRS02 .....	321
10C0-36 .....	334	1106MR .....	326	112750R .....	416	114612MR .....	413	116315TR .....	420	12114MRN .....	336
10C0-41 .....	334	1106MR01 .....	326	113002MR .....	414	114710R .....	416	116320TR .....	420	1212MR .....	323
10C0-46 .....	334	1108MR .....	326	113002SR .....	414	114715R .....	416	116325TR .....	420	1212MR01 .....	323
10C0-50 .....	334	1108SR .....	326	113003MR .....	414	114720R .....	416	116327TR .....	420	1213SRN.....	323
10C0-55 .....	334	111015Q .....	407	113003SR .....	414	114725R .....	416	116330TR .....	420	1214MR .....	323
10C0-60 .....	334	11104PR .....	474	113004MR .....	414	114727R .....	416	116340TR .....	420	1214MR01 .....	323
10C0-65 .....	334	11104PR10 .....	474	113004SR .....	414	114730R .....	416	116345TR .....	420	1214MRN .....	323
10D0-08 .....	325	1110MR .....	326	113005MR .....	414	114740R .....	416	116350R .....	420	1214MRN05 .....	323
10D0-09 .....	325	1112MR .....	326	113005SR .....	414	114745R .....	416	116350TR.....	420	1214SR .....	323
10D0-10 .....	325	1112MRN .....	326	113006MR .....	414	114750R .....	416	1163A05R .....	423	1214SRN01 .....	323
10D0-11 .....	325	1112SR .....	326	113006SR .....	414	115002MR .....	421	1163A06R .....	423	1215MR .....	323
10D0-12 .....	325	111946 .....	334	113007SR .....	414	115003MR .....	421	1163A07R .....	423	1215MR01 .....	323
10D0-13 .....	325	112002MR .....	414	113008MR .....	414	115004MR .....	421	1163A08R .....	423	1215MR02 .....	323
10D0-14 .....	325	112003MR .....	414	113008SR .....	414	115005MR .....	421	1163A09R .....	423	1215MRN01 .....	323
10D0-15 .....	325	112004MR .....	414	113010MR .....	414	115006MR .....	421	1163A10R .....	423	1215MRN02 .....	323
10D0-16 .....	325	112005MR .....	414	113010SR .....	414	115008MR .....	421	1163A15R .....	423	1216SR .....	323
10D0-17 .....	325	112006MR .....	414	113012SR .....	414	115010MR .....	421	1163A20R .....	423	1216SRN .....	323
10D0-18 .....	325	112007MR .....	414	113015MR .....	414	115025MR .....	421	116502MR .....	420	1218MR01 .....	323
10D0-19 .....	325	112008MR .....	414	113025MR .....	414	11509SQ05.....	475	116503MR .....	420	1218MRN .....	323
10F0-17P .....	325	112010MR .....	414	113025SR .....	414	11527SQ05.....	475	116504MR .....	420	12207SRN.....	337
10F0-19P .....	325	112015MR .....	414	11305SQ .....	571	115310R .....	422	116505MR .....	420	12208SR .....	321
10F0-21P .....	325	112025MR .....	414	113086 .....	334	115315R .....	422	116506MR .....	420	<b>122A06MR.....</b>	<b>N15</b>
10F0-22P .....	325	11205SQ .....	489	11310SQ .....	489	115320R .....	422	116507MR .....	420	<b>122A06MR01.....</b>	<b>N15</b>
10F0-23P .....	325	11208SQ .....	489	11311MQ .....	496	115325R .....	422	116508MR .....	420	122A07MRN01.....	337
10F0-24P .....	325	11225SQ .....	490	11325SQ.....	497	115327R .....	422	116510MR .....	420	122A07MRN02.....	337
10F0-26P .....	325	112261 .....	334	11328SQ.....	497	115330R .....	422	116525MR .....	420	122A09MRS01 .....	321
10F0-27P .....	325	112310R .....	416	11406SQ .....	490	115340R .....	422	118406M .....	346	122A12MRN .....	337
10F0-29P .....	325	112315R .....	416	11409SQ02.....	475	115345R .....	422	118407M .....	346	122A12MRS02 .....	321
10F0-30P .....	325	112320R .....	416	11409SQ03.....	475	115350R .....	422	118408M .....	346	122A14MRN .....	337
10F0-32P .....	325	112325R .....	416	11409SQ04.....	475	1153A05R .....	423	118409M .....	346	1224CRN .....	323
10F0-36P .....	325	112327R .....	416	11409SQ05.....	475	1153A06R .....	423	118410M .....	346	1226MR .....	323
10F0-38P .....	325	112330R .....	416	11409SQ06.....	475	1153A07R .....	423	118411M .....	346	1226MRN .....	323
10F0-41P .....	325	112334R .....	416	11409SQ08 .....	475	1153A08R .....	423	118412M .....	346	1266MR .....	324
10F0-46P .....	325	112345R .....	416	11427SQ02.....	475	1153A09R .....	423	118413M .....	346	1272MR .....	324
10F0-50P .....	325	112350R .....	416	11427SQ03.....	475	1153A10R .....	423	118414M .....	346	1275MR .....	324
10F0-55P .....	325	112502MR .....	412	11427SQ04.....	475	1153A15R .....	423	118417M .....	346	1275MRN .....	324
10F0-60P .....	325	112502SR .....	412	11427SQ05 .....	475	1153A20R .....	423	118508M .....	346	1282MR .....	325
10F0-65P .....	325	112503MR .....	412	11427SQ06 .....	475	115502MR .....	421	118509M .....	346	12916MQ1 .....	498
10F0-70P .....	325	112503SR .....	412	11427SQ08 .....	475	115503MR .....	421	118510M .....	346	12939MQ1 .....	498
10F0-75P .....	325	112504MR .....	412	114310R .....	416	115503SR .....	421	118511M .....	346	12939MQ-A .....	498
10FOVE-07.....	429	112504SR .....	412	114315R .....	416	115504MR .....	421	118512M .....	346	12939MQ-A03 .....	498
10FOVE-08.....	429	112505MR .....	412	114320R .....	416	115504SR .....	421	118513M .....	346	12939SQ1 .....	498
10FOVE-09.....	429	112505SR .....	412	114325R .....	416	115505MR .....	421	118514M .....	346	12939SQ-A .....	498
10FOVE-10.....	429	112506MR .....	412	114327R .....	416	115505SR .....	421	118517M .....	346	12939SQ-A03 .....	498
10FOVE-11.....	429	112506SR .....	412	114330R .....	416	115506MR .....	421	118519M .....	346	1296MRN .....	323
10FOVE-12.....	429	112507MR .....	412	114340R .....	416	115506SR .....	421	119502M .....	423	12A0MRN .....	319
10FOVE-13.....	429	112508MR .....	412	114345R .....	416	115508MR .....	421	119503M .....	423	12A09MRS01 .....	321
10FOVE-14.....	429	112508SR .....	412	114350R .....	416	115508SR .....	421	119504M .....	423	12A1MRN .....	319
10FOVE-15.....	429	112510MR .....	412	114502MR .....	412	115510MR .....	421	119505M .....	423	12A2MRS02 .....	321
10FOVE-16.....	429	112510SR .....	412	114502SR .....	412	115510SR .....	421	119506M .....	423	12A3MRN .....	319
10FOVE-17.....	429	112512MR .....	412	114503SR .....	412	115512SR .....	421	119508M .....	423	12A4MRN .....	319
10FOVE-18.....	429	112512SR .....	412	114504SR .....	412	115525MR .....	421	119510M .....	423	12A4MRN .....	319
10FOVE-19.....	429	112514MR .....	412	114505SR .....	412	115525SR .....	421	119525M .....	423	12B4MRN .....	319
10FOVE-20.....	429	112515MR .....	412	114506SR .....	412	115H05M-10 .....	346	11A310R .....	422	12C7MRN01 .....	319
10FOVE-21.....	429	112516SR .....	412	114508SR .....	412	115H06M-10 .....	346	11A315R .....	422	12C8MRN .....	319
10FOVE-22.....	429	112517MR .....	412	114510SR .....	412	115H07M-10 .....	346	11A320R .....	422	12D06MRS.....	321
10FOVE-23.....	429	112518SR .....	412	114512SR .....	412	115H08M-10 .....	346	11A325R .....	422	<b>12D06MRS01.....</b>	<b>N15</b>
10FOVE-24.....	429	112519MR .....	412	114516SR .....	412	115H08M-14 .....	346	11A327R .....	422	12D09MRN .....	320
10GOVE-07.....	429	112522MR .....	412	114518SR .....	412	115H09M-10 .....	346	11A330R .....	422	12D09MRS01 .....	321
10GOVE-08.....	429	112525MR .....	412	114520SR .....	412	115H10M-10 .....	346	11A330R .....	422	12D10MRN .....	320
10GOVE-09.....	429	112525SR .....	412	114524SR .....	412	115H10M-14 .....	346	11A340R .....	422	12D12MRS .....	321
10GOVE-10.....	429			114525SR .....	412	115H11M-10 .....	346			12D12MRS01.....	321
										12D13MRN .....	320



# Index .....

12D14MRN05.....	320	14126504-E* .....	380	14321503 .....	439	14780204 .....	431	15631618 .....	346	168009H .....	390
12D15MRN.....	320	14126506 .....	380	14321515 .....	439	14780306 .....	431	15631818 .....	346	168009M .....	391
12D15MRN01.....	320	14126506-E* .....	380	14321803 .....	439	147E0104.....	431	15632112 .....	346	168010E .....	391
12D18MRN.....	320	14126514 .....	380	14321815 .....	439	147E0204.....	431	15632115 .....	346	168010H .....	390
12D21MRN.....	320	14210023 .....	376	14322003 .....	439	14810103 .....	382	15632118 .....	346	168010M .....	391
12D26MRN .....	320	14210104 .....	376	14322015 .....	439	14810204 .....	382	15661615 .....	346	168010T .....	390
12D06MRS01.....	N15	14210112 .....	376	14322503 .....	439	14810204-E* .....	382	15661618 .....	346	168010U .....	391
12FVE08MRN..	429	14210116 .....	376	14322515 .....	439	14810205 .....	382	15661818 .....	346	168012H .....	390
12FVE10MRN..	429	14210132 .....	376	14323003 .....	439	14810205-E* .....	382	15662115 .....	346	168012M .....	391
<b>13 xxx</b>		14210204 .....	376	14323015 .....	439	14810306 .....	382	157501P .....	403	168014M .....	391
13012MR .....	336	14210206 .....	376	14323503 .....	439	14810412 .....	382	157502P .....	403	168015E .....	391
13013MR .....	336	14210212 .....	376	14323515 .....	439	14825503 .....	383	157503P .....	403	168015T .....	390
1305SR.....	332	14210214 .....	376	14324003 .....	439	14826504 .....	383	1586-09 .....	571	168015U .....	391
1306MR .....	332	14210216 .....	376	14324015 .....	439	14826504-E* .....	383	1589262.....	207	168020E .....	391
1306MRN .....	332	14210306 .....	376	14330403 .....	439	14826505-E* .....	383	1589384.....	207	168020T .....	390
131101P .....	403	14220303 .....	376	14330415 .....	439	14826506 .....	383	1596-09 .....	571	168020U .....	391
131102P .....	403	14220404 .....	376	14330503 .....	439	1482806 .....	383	<b>16 xxx</b>		168025E .....	391
131103P .....	403	14220503 .....	376	14330515 .....	439	14821012 .....	383	1606MR .....	327	168025T .....	390
13113MR .....	336	14220504 .....	376	14330603 .....	439	14902JMR01.....	N16	1611MR .....	327	168025U .....	391
131501P .....	403	14220512 .....	376	14330615 .....	439	14A10132 .....	379	163604H .....	390	168027E .....	391
131502P .....	403	14220516 .....	376	14330703 .....	439	14A10204 .....	379	163605H .....	390	168027T .....	390
131503P .....	403	14220806 .....	376	14330715 .....	439	14A10214 .....	379	163605M .....	391	168027U .....	391
1317012PN .....	386	14220807 .....	376	14330803 .....	439	14A10306 .....	379	163606H .....	390	168030E .....	391
1317012ZN .....	386	14220808 .....	376	14330815 .....	439	14A20303 .....	379	163606M .....	391	168030T .....	390
1317046SN .....	386	14221008 .....	376	14330902 .....	439	14A20404 .....	379	163606M .....	391	168030U .....	391
1317057SN .....	386	14225503 .....	376	14330903 .....	439	14A20808 .....	379	163607H .....	390	168040E .....	391
1317115TN .....	386	14225504 .....	376	14331002 .....	439	14A25504 .....	379	163608H .....	390	168040T .....	390
1317225TN .....	386	14225505 .....	376	14331003 .....	439	14A25505 .....	379	163608M .....	391	168040U .....	391
1317340TN .....	386	14225506 .....	376	14331502 .....	439	14A26506 .....	379	163609H .....	390	168045E .....	391
1317401PN .....	386	14226504 .....	376	14331503 .....	439	14A26514 .....	379	163609M .....	391	168045T .....	390
131744BHN .....	386	14226506 .....	376	14332002 .....	439	14A26514 .....	379	163610E .....	391	168045U .....	391
1317501ZN .....	386	14226512 .....	376	14332003 .....	439	14A80132 .....	379	163610H .....	390	168045U .....	391
131755BHN .....	386	14226514 .....	376	1450-04 .....	387	14A80204 .....	379	163610M .....	391	168050E .....	391
1317602PN .....	386	14226516 .....	376	1450-05 .....	387	14B10103 .....	382	163610T .....	390	168050T .....	390
131766BHN .....	386	14230602 .....	377	1450-06 .....	387	14B10204 .....	382	163610U .....	391	168050U .....	391
1317702ZN .....	386	14230702 .....	377	1450-07 .....	387	14B10206 .....	382	163612H .....	390	168055E .....	391
132A13MR .....	337	14230803 .....	377	1450-08 .....	387	14B10306 .....	382	163612M .....	391	168055T .....	390
132A13MR01.....	N16	14230903 .....	377	1450-09 .....	387	14B20807 .....	382	163614M .....	391	168055U .....	391
134501P .....	403	14231003 .....	377	1450-09 .....	387	14B25504 .....	382	163615E .....	391	168060E .....	391
134502P .....	403	14231003 .....	377	1450-10 .....	387	14B26506 .....	382	163615T .....	390	168060T .....	390
134503P .....	403	14231503 .....	377	1450-11 .....	387	<b>15 xxx</b>		163615U .....	391	168060U .....	391
1360012P .....	389	14231510 .....	377	1450-12 .....	387	15001012P .....	340	163620E .....	391	<b>17 xxx</b>	
1360022P .....	389	14232004 .....	377	1450-13 .....	387	15001113P .....	340	163620T .....	390	1706MR .....	328
1360023P .....	389	14232010 .....	377	1450-45 .....	387	15001214P .....	340	163620U .....	391	1707SR .....	328
1360023Z .....	389	14232504 .....	377	1450-55 .....	387	15001317P .....	340	163625E .....	391	1708MR .....	328
1360451Z .....	389	14232510 .....	377	1453-05 .....	387	15001415P .....	340	163625T .....	390	1708MR01 .....	208
1360552P .....	389	14232704 .....	377	1453-06 .....	387	15001417P .....	340	163625U .....	391	1710MR .....	328
1360552Z .....	389	14233005 .....	377	1453-07 .....	387	15001719P .....	340	163625U .....	391	1712MR .....	328
1360703P .....	389	14233010 .....	377	1453-08 .....	387	15001721P .....	340	163627E .....	391	1712MRN .....	328
136501P .....	403	14234006 .....	377	1453-10 .....	387	15001921P .....	340	163627U .....	391	1712MRN01 .....	328
136502P .....	403	14240206 .....	377	14610103 .....	381	15001922P .....	340	163630E .....	391	174010H .....	243
136503P .....	403	14270803 .....	377	14610204 .....	381	15001924P .....	340	163630T .....	390	174010H .....	253
13A6502P .....	403	14270903 .....	377	14610206 .....	381	15002123P .....	340	163630U .....	391	174012H .....	243
13B6502P .....	403	14271003 .....	377	14610306 .....	381	15002224P .....	340	163640E .....	391	174012H .....	253
<b>14 xxx</b>		14271503 .....	377	14620806 .....	381	15002326P .....	340	163640T .....	390	174014H .....	243
1406PR .....	332	14272004 .....	377	14620807 .....	381	15002427P .....	340	163640U .....	391	174014H .....	253
14103GP .....	288	14272504 .....	377	14621008 .....	381	15002430P .....	340	163645E .....	391	174017H .....	243
14108SRN .....	339	14272704 .....	377	14621012 .....	381	15002632P .....	340	163645T .....	390	174017H .....	253
14110003 .....	380	14273005 .....	377	14621210 .....	381	15002730P .....	340	163645U .....	391	174019H .....	243
14110104 .....	380	14274006 .....	377	14622504 .....	381	15002732P .....	340	163645U .....	391	174019H .....	253
14110204 .....	380	14280023 .....	377	14626504 .....	381	15003032P .....	340	163650E .....	391	174022H .....	243
14110204-E* .....	380	14280104 .....	377	14626506 .....	381	15003236P .....	340	163650T .....	390	174022H .....	253
14110205-E* .....	380	14280132 .....	377	14626506 .....	381	15003368P .....	340	163650U .....	391	<b>18 xxx</b>	
14110206 .....	380	14280204 .....	377	14710003 .....	431	15003641P .....	340	163655E .....	391	1805MR .....	341
14110206-E* .....	380	14280306 .....	377	14710104 .....	431	15003841P .....	340	163655U .....	391	1808MR .....	341
14110208-E* .....	380	14311003 .....	439	14710204 .....	431	151001P .....	403	163660E .....	391	1812MR .....	341
14110214 .....	380	14311015 .....	439	14710306 .....	431	151002P .....	403	163660T .....	390	181202P .....	389
14110306 .....	380	14311103 .....	439	14720404 .....	431	151003P .....	403	163660U .....	391	181203P .....	389
14110308 .....	380	14311115 .....	439	14720807 .....	431	151501P .....	403	168004H .....	390	1826MR .....	389
14120303 .....	380	14312003 .....	439	14722503 .....	431	151502P .....	403	168005H .....	390	183203H .....	389
14120404 .....	380	14312015 .....	439	14723504 .....	431	151503P .....	403	168005M .....	391	183204H .....	389
14120806 .....	380	14313003 .....	439	14725505 .....	431	155001P .....	403	168006H .....	390	183205H .....	389
14120808 .....	380	14313015 .....	439	14726506 .....	431	155002P .....	403	168006M .....	391	183206H .....	389
14125504 .....	380	14320615 .....	439	14740105 .....	431	155003P .....	403	168007H .....	390	183207H .....	389
14126504 .....	380	14320815 .....	439	14740206 .....	431	15631612 .....	346	168008H .....	390	183208H .....	389
		14321003 .....	439	14780003 .....	431	15631615 .....	346	168008M .....	391		
		14321015 .....	439	14780104 .....	431						

# Index .....

183212H	.....	389	19001921	.....	326	195427H	.....	253	19992733	.....	345	20109MW	.....	415	203330	.....	140
183215T	.....	390	19001922	.....	326	195427H	.....	258	19992733A	.....	345	20109MW-S	.....	415	203340	.....	140
183220T	.....	390	19002022	.....	326	195430H	.....	253	19992833	.....	345	20119MR01	.....	414	203503	.....	139
183225T	.....	390	19002123	.....	326	195430H	.....	258	19992833A	.....	345	20110MR	.....	414	203504	.....	139
183227T	.....	390	19002224	.....	326	195432H	.....	253	19993032	.....	345	201101X	.....	138	203504S	.....	139
183230T	.....	390	19002326	.....	326	195432H	.....	258	19993032A	.....	345	201102X	.....	138	203505	.....	139
183240T	.....	390	19002426	.....	326	19600607	.....	327	19993233	.....	345	201103X	.....	138	203505S	.....	139
183245T	.....	390	19002427	.....	326	19600809	.....	327	19993233A	.....	345	201104X	.....	138	203506	.....	139
183250T	.....	390	19002430	.....	326	19600810	.....	327	19993238	.....	345	201208X	.....	138	203506S	.....	139
183601P	.....	389	19002528	.....	326	19601011	.....	327	19993238A	.....	345	201235X	.....	138	203507	.....	139
183602P	.....	389	19002632	.....	326	19601012	.....	327	19993821	.....	345	201255X	.....	138	203507S	.....	139
183602Z	.....	390	19002729	.....	326	19601113	.....	327	19993821A	.....	345	201295R	.....	414	203508	.....	139
183603P	.....	389	19002730	.....	326	19601213	.....	327	19993822	.....	345	201308X	.....	139	203508S	.....	139
183603Z	.....	390	19002732	.....	326	19601214	.....	327	19993822A	.....	345	201309X	.....	139	203510	.....	139
183604H	.....	389	19003032	.....	326	19601415	.....	327	19994121L	.....	345	201310X	.....	139	203510S	.....	139
183604P	.....	389	19003036	.....	326	19601417	.....	327	19994121LA	.....	345	201315X	.....	139	203512S	.....	139
183604Z	.....	390	19003236	.....	326	19601617	.....	327	19A00607	.....	335	201320X	.....	139	2035VE03	.....	426
183605H	.....	389	19003436	.....	326	19601719	.....	327	19A00809	.....	335	201325X	.....	139	2035VE04	.....	426
183606H	.....	389	19003641	.....	326	19601819	.....	327	19A01011	.....	335	201327X	.....	139	2035VE05	.....	426
183607H	.....	389	19004146	.....	326	19601921	.....	327	19A01213	.....	335	201330X	.....	139	2035VE06	.....	426
183608H	.....	389	19005507	.....	326	19602022	.....	327	19A01415	.....	335	201340X	.....	139	203708	.....	140
183608S	.....	389	19100607	.....	333	19602123	.....	327	19A01617	.....	335	201503MX	.....	138	203709	.....	140
183609S	.....	389	19100809	.....	333	19602224	.....	327	19A01819	.....	335	201504MX	.....	138	203710	.....	140
183610H	.....	389	19100810	.....	333	19602326	.....	327	19A02022	.....	335	201505MX	.....	138	203715	.....	140
183610S	.....	389	19101011	.....	333	19602426	.....	327	19A02123	.....	335	201506MX	.....	138	203720	.....	140
183611S	.....	389	19101012	.....	333	19602427	.....	327	19A02426	.....	335	201506SX	.....	138	203725	.....	140
183612H	.....	389	19101213	.....	333	19602732	.....	327	19A02528	.....	335	201508MX	.....	138	203727	.....	140
183612S	.....	389	19101214	.....	333	19603032	.....	327	19A02729	.....	335	201508SX	.....	138	203730	.....	140
183614H	.....	389	19101415	.....	333	19611415	.....	327	19A03032	.....	335	201510MX	.....	138	203740	.....	140
183614S	.....	389	19101417	.....	333	19611617	.....	327	19A0-09	.....	335	201801X	.....	139	203801	.....	140
183620T	.....	390	19101617	.....	333	19611819	.....	327	19A0-15	.....	335	201802X	.....	139	203802	.....	140
183625T	.....	390	19101719	.....	333	19700607	.....	328	19B00810	.....	329	201803X	.....	139	203803	.....	140
183627T	.....	390	19101819	.....	333	19700809	.....	328	19B01011	.....	329	201804X	.....	139	203A19PR	.....	418
183630T	.....	390	19101921	.....	333	19700810	.....	328	19B01012	.....	329	2019MR	.....	152	20407PR	.....	417
183635T	.....	390	19102022	.....	333	19701011	.....	328	19B01113	.....	329	2019SR	.....	414	20409PR	.....	417
183640T	.....	390	19102123	.....	333	19701012	.....	328	19B01214	.....	329	201A09MR	.....	418	20419PR	.....	417
183645T	.....	390	19102427	.....	333	19701113	.....	328	19B01315	.....	329	201B09MR	.....	418	2044SRV	.....	157
183650T	.....	390	1912MR	.....	341	19701213	.....	328	19B01417	.....	329	20208MR	.....	412	2048MRV	.....	157
183655T	.....	390	1912MRN	.....	341	19701214	.....	328	19B01618	.....	329	20208MR01	.....	413	204B29PR	.....	418
183660T	.....	390	19200608	.....	332	19701314	.....	328	19B01719	.....	329	20208SR01	.....	413	20505PR01	.....	413
1842MR	.....	340	19200711	.....	332	19701415	.....	328	19B01921	.....	329	20209MR	.....	412	20515PR01	.....	413
187015T	.....	390	19201012	.....	332	19701417	.....	328	19B02224	.....	329	20209SR02	.....	412	20A16MR	.....	419
187020T	.....	390	19201418	.....	332	19701617	.....	328	19C00607	.....	329	2020H0MR	.....	413	20A17MR	.....	419
187025T	.....	390	19201622	.....	332	19701719	.....	328	19C00809	.....	329	2021MR	.....	153	<b>21 xxx</b>		
187027T	.....	390	19202024	.....	332	19701819	.....	328	19C01011	.....	329	20210MR	.....	413	2104PR	.....	150
187030T	.....	390	1926MR	.....	341	19701921	.....	328	19C01213	.....	329	20218MR	.....	412	2107PR	.....	150
187040T	.....	390	19300810	.....	332	19701922	.....	328	19C01415	.....	329	20219MR	.....	412	2109PR	.....	150
187045T	.....	390	19300911	.....	332	19702022	.....	328	19C01617	.....	329	20219SR	.....	412	21108MR	.....	422
187050T	.....	390	19301011	.....	332	19702123	.....	328	19C01819	.....	329	2027MRE	.....	153	2114TR	.....	150
188002P	.....	389	19301012	.....	332	19702224	.....	328	19C02022	.....	329	2030CR	.....	154	2119PR	.....	150
188003P	.....	389	19301113	.....	332	19702326	.....	328	19C02123	.....	329	20307PR	.....	417	21-20-07MR	.....	481
188004P	.....	389	19301213	.....	332	19702426	.....	328	19C02426	.....	329	20308PR	.....	417	21-20-101	.....	481
188008S	.....	389	19301214	.....	332	19702427	.....	328	19C02528	.....	329	20309PR	.....	417	21-20-102	.....	481
188010S	.....	389	19301315	.....	332	19702528	.....	328	19C03032	.....	329	2031MR	.....	154	21208MR	.....	422
188012S	.....	389	19301417	.....	332	19703032	.....	328	<b>1A xxx</b>			203101	.....	139	21208SR	.....	422
<b>19 xxx</b>			19301719	.....	332	199104R	.....	344	<b>1A06MR</b>	.....	333	203102	.....	139	2121-12	.....	605
19000607	.....	326	19301922	.....	332	19911722	.....	344	<b>1B xxx</b>			203103	.....	139	2121-18	.....	605
19000708	.....	326	19312224	.....	333	199306R	.....	344	<b>1B06MR</b>	.....	333	203104	.....	139	2121A-15	.....	605
19000809	.....	326	19312427	.....	333	19932433	.....	344	<b>1C xxx</b>			20317MR	.....	419	2121A-18	.....	605
19000810	.....	326	19313032	.....	333	19932427	.....	344	<b>1C08MR</b>	.....	329	20318PR	.....	417	2124-18	.....	606
19000911	.....	326	19500810	.....	330	19961721	.....	344	<b>1C12MR</b>	.....	329	20319PR	.....	417	2126A-18	.....	606
19001011	.....	326	19501012	.....	330	19980016	.....	345	<b>1F xxx</b>			20319PRU	.....	417	2127-06M	.....	489
19001012	.....	326	19501113	.....	330	19991921	.....	345	<b>1E xxx</b>			203204	.....	139	2127-08M	.....	489
19001013	.....	326	19501214	.....	330	19991921A	.....	345	<b>1E10MR</b>	.....	331	203207	.....	139	2127-11M	.....	489
19001113	.....	326	19501315	.....	330	199920R	.....	345	<b>1E11MR</b>	.....	331	203208	.....	139	2127-14M	.....	489
19001213	.....	326	19501417	.....	330	19992224	.....	345	<b>20 xxx</b>			203210	.....	139	2127-18M	.....	489
19001214	.....	326	19501618	.....	330	1999224A	.....	345	20002UB	.....	417	203235	.....	139	2127A-06M	.....	489
19001214	.....	326	19501719	.....	330	19992427	.....	345	20107MR01	.....	414	203255	.....	139	2127A-08M	.....	489
19001314	.....	326	19501922	.....	330	19992427A	.....	345	20107SR	.....	414	203265	.....	139	2127A-11M	.....	489
19001317	.....	326	195404R	.....	253	19992432	.....	345	20108MR	.....	414	203308	.....	140	2127A-14M	.....	489
19001415	.....	326	195419H	.....	253	19992432A	.....	345	20108MR	.....	414	203309	.....	140	2127A-18M	.....	489
19001417	.....	326	195419H	.....	258	199925R	.....	345	20109MR	.....	414	203310	.....	140	2127A-24M	.....	489
19001617	.....	326	195422H	.....	253	19992730	.....	345	20109MRU	.....	417	203315	.....	140	2127A-33M	.....	489
19001618	.....	326	195422H	.....	258	19992732	.....	345				203320	.....	140	2127A-50M	.....	489
19001719	.....	326	195424H	.....	253	19992732A	.....	345				203325	.....	140	2127PR	.....	149
19001819	.....	326	195424H	.....	258							203327	.....	140			

# Index .....

2127SR .....	149	227504M .....	138	2335VE06M.....	426	2551MR .....	155	302208 .....	166	305208 .....	235
2128-26 .....	606	227505M .....	138	2335VE07M.....	426	2551MR01 .....	155	302210 .....	166	305210 .....	235
2128PR .....	400	227506M .....	138	2335VE08M.....	426	2553MRV.....	157	302308 .....	166	305255 .....	235
2129-24 .....	606	227507M .....	138	2335VE09M.....	426	2553MRV01 .....	158	302309 .....	166	305310 .....	236
21-30-09MR .....	481	227508M .....	138	2335VE10M.....	426	2555MR .....	393	302310 .....	166	305315 .....	236
21309PR .....	422	2293-02 .....	147	2335VE11M.....	426	2565MRV .....	156	302315 .....	166	305320 .....	236
213312DF .....	148	2293-03 .....	147	2335VE12M.....	426	2571-45 .....	149	302320 .....	166	305325 .....	236
2138PR .....	400	2293-04 .....	147	2335VE13M.....	426	2575MR .....	155	302325 .....	166	305327 .....	236
2141 .....	149	2293-06 .....	147	2335VE14M.....	426	25VE01MRV.....	426	302327 .....	166	305330 .....	236
2142 .....	149	<b>23 xxx</b>		237504M .....	138	<b>27 xxx</b>		302330 .....	166	305340 .....	236
2166DF .....	393	231008M .....	138	237505M .....	138	2725-55F .....	143	302340 .....	166	305345 .....	236
2176DF .....	148	231010M .....	138	237506M .....	138	2725-55G .....	143	302345 .....	166	305350 .....	236
2177DF .....	148	231010S .....	138	237507M .....	138	2725DK .....	143	302350 .....	166	305355 .....	236
2178DF .....	148	231012S .....	138	237508M .....	138	2745 .....	146	3023MR .....	173	305360 .....	236
2178TG .....	148	2311-06 .....	147	237510M .....	138	2746.....	394	3023MRV11.....	175	3054MR .....	176
2178VE-05 .....	426	2311-12 .....	147	<b>24 xxx</b>		2747.....	146	3024MR .....	173	305504M .....	235
2179DF .....	148	2311-18 .....	147	24110204 .....	380	2747DR .....	146	3024SR .....	173	305505M .....	235
21A107 .....	348	2311MR .....	149	24110214 .....	380	2752-06G .....	143	302503 .....	166	305504S.....	235
<b>22 xxx</b>		2312-06.....	147	24308PR .....	423	2752DK .....	143	302504 .....	166	305505S .....	235
22106MR .....	421	2313MR .....	150	24311030 .....	440	2752-45G .....	143	302505 .....	166	305506M .....	235
22108MR .....	421	23208MR.....	422	24311140 .....	440	2755-55G .....	143	302506 .....	166	305506S .....	235
22118MR .....	421	233004M .....	137	24312020 .....	440	2755DK .....	143	302507 .....	166	305507M .....	235
22208MR .....	421	233005M .....	137	24330610 .....	440	2760-04 .....	145	302508 .....	166	305507S .....	235
22218MR .....	421	233005S .....	137	24330715 .....	440	2760DK01 .....	145	302509 .....	166	305508M .....	235
2221-02 .....	147	233006M .....	137	24330820 .....	440	2761-55F .....	143	302510 .....	166	305508S .....	235
2221-03 .....	147	233006S .....	137	24330915 .....	440	2761-55P .....	143	302512 .....	166	305510M .....	235
2221-04 .....	147	233007M .....	137	2452-05F .....	148	2761DK .....	143	3025VE04 .....	427	305510S .....	235
2221-06 .....	147	233007S .....	137	2452DK .....	148	2769-55F .....	144	3025VE05 .....	427	305512M .....	235
2221-10 .....	147	233008M .....	137	2452DK .....	149	2769-55P .....	303	3025VE06 .....	427	305512S .....	235
2221-12 .....	147	233008S .....	137	2453-05F .....	149	2769DK .....	144	3025VE08 .....	427	305514M .....	235
2221VE-04.....	426	233009M .....	137	<b>25 xxx</b>		276A-04G .....	145	3025VE10 .....	427	305516M .....	235
2221VE-06.....	426	233009S .....	137	2501MR .....	146	276A-04G .....	145	302708 .....	166	305516S .....	235
2223-02 .....	147	233010M .....	137	2509MR .....	149	276ADK .....	145	302709 .....	166	305517M .....	235
2223-04 .....	147	233010S .....	137	2509SR .....	149	276B-0225 .....	142	302710 .....	166	305545S .....	235
22306TR .....	421	233010S .....	137	2510SR .....	150	2771-55F .....	144	302715 .....	166	3055CR.....	175
22309TR .....	421	233011M .....	137	2511MR .....	150	2771-55G .....	144	302720 .....	166	3055MR .....	432
223004M .....	138	233011S .....	137	2513MR .....	149	2771DK .....	144	302725 .....	166	30605MR .....	432
223005M .....	138	233012M .....	137	2513MRD1 .....	149	2771VE-55.....	426	302727 .....	166	30606MR.....	432
223006M .....	138	233012S .....	137	2515MR .....	146	2773-55GS .....	141	302730 .....	166	30607MR .....	432
223007M .....	138	233013M .....	137	2516MR .....	152	2773DK.....	144	302740 .....	166	30607MR02 .....	432
223008M .....	138	233014M .....	137	2516MRV03 .....	155	2774-55F .....	144	302745 .....	166	30615MR .....	432
223009M .....	138	233014S .....	137	2516SR .....	152	2774-55G .....	144	302745 .....	166	30617MR .....	432
223010M .....	138	233015S .....	137	2518MR .....	152	2774DK .....	144	302750 .....	166	306320 .....	236
223011M .....	138	233016S .....	137	2518MR .....	152	2779-55F .....	144	3027MR .....	174	306325 .....	236
223012M .....	138	233045M .....	137	2518MR01 .....	152	2779-55G .....	144	3027SR .....	174	306327 .....	236
223013M .....	138	233055M .....	137	2518MR .....	152	2779DK .....	144	302D08 .....	166	306330 .....	236
223014M .....	138	23308PR .....	423	2518MR .....	152	2779DK .....	144	302D09 .....	166	306340 .....	236
223045M .....	138	2331SRV.....	156	2518MR .....	152	2781-06P .....	145	302D10 .....	166	306345 .....	236
223055M .....	138	233504M .....	137	2519MR .....	152	2781DK .....	145	302D15 .....	166	306350 .....	236
22319TR .....	421	233505M .....	137	2519MR .....	152	2789-06F.....	145	302D20 .....	166	306355 .....	236
223504M .....	137	233505S .....	137	2519SR .....	152	2789DK .....	145	302D25 .....	166	306504M .....	235
223505M .....	137	233505S .....	137	2521MR .....	153	2792 .....	147	302D27 .....	166	306505M .....	235
223505S .....	137	233506M .....	137	2524MRV .....	155	2793 .....	148	302D30 .....	166	306506M .....	235
223506M .....	137	233506S .....	137	2525MRE .....	153	<b>28 xxx</b>		302D40 .....	166	306508M .....	235
223507M .....	137	233507M .....	137	2526MR .....	154	2813.....	148	302D45 .....	166	306510M .....	235
223507S .....	137	233507S .....	137	2526SR .....	154	2863P.....	234	302D50 .....	166	30914AY .....	604
223506S .....	137	233507S .....	137	2527MRE.....	153	<b>30 xxx</b>		302D55 .....	166	<b>30VE31MPV.....N12</b>	
223507M .....	137	233508M .....	137	2528MRV .....	156	30106AMRB .....	379	302D60 .....	166	<b>31 xxx</b>	
223507S .....	137	233508S .....	137	2530CR .....	154	30107AMRB .....	379	30307PR .....	378	3103PR .....	172
223508M .....	137	233509M .....	137	2531MR .....	154	30115MR .....	378	30309PR .....	378	3105PR .....	171
223508S .....	137	233509S .....	137	2534MRV .....	156	30116AMRB .....	379	30315PR .....	378	3106PR .....	170
223509M .....	137	233510M .....	137	253504M .....	234	30117MR .....	378	30316PR .....	378	3108PR8 .....	171
223509S .....	137	233510S .....	137	253505M .....	234	30118MR .....	378	30317PR .....	378	3109PR8 .....	171
223509M .....	137	233511M .....	137	253506M .....	234	30127MR .....	378	30319PR .....	378	31107MR .....	378
223509S .....	137	233511S .....	137	253507M .....	234	3013MR .....	170	3032SRV.....	175	31116MR .....	378
223510M .....	137	233512M .....	137	253510M .....	234	3013SR .....	170	3033MRV.....	176	3113PR .....	172
223510S .....	137	233512S .....	137	253513M .....	234	3020MR .....	173	3034MR .....	174	3116PR .....	170
223511M .....	137	233512S .....	137	253514M .....	234	3020MR02 .....	173	3036CR .....	174	3119PR8 .....	171
223511S .....	137	233513M .....	137	253545M .....	234	3020AMRB .....	382	303906 .....	166	31216MR.....	378
223512M .....	137	233514M .....	137	253555M .....	234	30206MR .....	381	303907 .....	166	3121PR .....	171
223512S .....	137	233514S .....	137	2539MR .....	154	3020SR .....	173	303908 .....	166	3129PR .....	170
223513M .....	137	233514S .....	137	2540MR .....	155	3020SR02 .....	173	303909 .....	166	3131PR8 .....	171
223514M .....	137	233515M .....	137	2544SRV.....	157	302102 .....	166	303910 .....	166	31416MR .....	384
223514S .....	137	233515S .....	137	2547MR-EB .....	410	302103 .....	166	305101 .....	235	31419MR .....	441
223515M .....	137	233516S .....	137	2548MRV.....	41	302104 .....	166	305102 .....	235	31427MR.....	385
223515M .....	137	233518S .....	137	2549MR-EB .....	158	302205 .....	166	305103 .....	235	3146PR .....	171
223516S .....	137	233532M .....	137	2550MRV.....	158			305104 .....	235		
223518S .....	137	233545M .....	137								
223545M .....	131	233555M .....	137								
223555M .....	137	2335VE05M.....	426								



# Index .....

314708S .....	236	323021M .....	160	3311-12 .....	169	3335VE09M .....	427	33672-160 .....	275	34307-1A .....	309
314710M .....	236	323022M .....	160	33121 .....	283	3335VE10M .....	427	33681-100 .....	273	34323-1A .....	305
314710S .....	236	323022S .....	160	33122 .....	283	3335VE11M .....	427	33681-101 .....	273	34323-1B .....	305
314808S .....	170	323024M .....	160	333006M .....	159	3335VE12M .....	427	337504M .....	161	34323-1C .....	305
314810S .....	170	323024S .....	160	333007M .....	159	3335VE13M .....	427	337505M .....	161	34323-1DK1 .....	305
314810M .....	170	323026S .....	160	333008M .....	159	3335VE14M .....	427	337506M .....	161	34323-2A .....	305
3149PR8 .....	171	323028S .....	160	333008S .....	159	3335VE15M .....	427	337507M .....	161	34323-2B .....	305
31512MR .....	384	323030S .....	160	333009M .....	159	3335VE16M .....	427	337508M .....	161	34323-2C .....	305
31512MR01 .....	384	323032S .....	160	333010M .....	159	3335VE17M .....	427	337510M .....	161	34323-2DK1 .....	305
31516MR .....	384	32309PR .....	440	333010S .....	159	3335VE18M .....	427	337511M .....	161	3432F-1DK .....	304
31519MR .....	384	323506M .....	160	333011M .....	159	3335VE19M .....	427	337512M .....	161	3432F-1KF .....	304
3178VE-08 .....	427	323507M .....	160	333011S .....	159	3335VE20M .....	427	337514M .....	161	3432F-3KF .....	305
<b>32 xxx</b>		323508M .....	160	333012M .....	159	3335VE21M .....	427	337516M .....	161	343506M .....	234
3203 .....	343	323508S .....	160	333012S .....	159	3335VE22M .....	427	337518M .....	161	343507M .....	234
3203 .....	554	323509M .....	160	333013M .....	159	3335VE24M .....	427	33811-150 .....	276	343508M .....	234
320300 .....	343	323510M .....	160	333014M .....	159	333E .....	161	33812-150 .....	276	343508S .....	234
320300 .....	554	323510S .....	160	333014S .....	159	333E10M .....	161	33831-180 .....	276	343509M .....	234
320301 .....	343	323511M .....	160	333015M .....	159	333E11M .....	161	33832-180 .....	276	343510M .....	234
320301 .....	554	323512M .....	160	333015S .....	159	333E12M .....	161	33841-180 .....	274	343510S .....	234
3203A0 .....	343	323512S .....	160	333016M .....	159	333E14M .....	161	33842-180 .....	274	343511M .....	234
3203A0 .....	554	323513M .....	160	333016S .....	159	333E16M .....	161	33851-120 .....	274	343512M .....	234
3204 .....	343	323514M .....	160	333017M .....	159	333E18M .....	161	33851-121 .....	274	343512S .....	234
3204 .....	554	323514S .....	160	333018M .....	159	333E20M .....	161	33851-250 .....	278	343513M .....	234
320540 .....	554	323515M .....	160	333018S .....	159	33411-040 .....	271	33852-120 .....	274	343514M .....	234
320560 .....	554	323516M .....	160	333019M .....	159	33411-041 .....	271	33852-121 .....	274	343514S .....	234
3206A00 .....	344	323516S .....	160	333019S .....	159	33411-050 .....	271	33852-250 .....	278	343515M .....	234
3206A00 .....	554	323517M .....	160	333020M .....	159	33411-051 .....	271	33861-200 .....	277	343516M .....	234
32067A .....	344	323518M .....	160	333020S .....	159	33411-71 .....	288	33862-200 .....	277	343516S .....	234
32067A .....	554	323518S .....	160	333021M .....	159	33412-050 .....	271	33871-160 .....	275	343517M .....	234
320760 .....	554	323519M .....	160	333022M .....	159	33412-051 .....	271	33872-160 .....	275	343518M .....	234
3209-120 .....	N18	323520S .....	160	333022S .....	159	33421-040 .....	271	33911-250 .....	278	343518S .....	234
3209-135 .....	N18	323521M .....	160	333023M .....	159	33421-041 .....	271	33912-250 .....	278	343519M .....	234
3209-220 .....	N18	323522M .....	160	333024M .....	159	33431-050 .....	270	33921-300 .....	278	343520M .....	234
32108MR .....	440	323522S .....	160	333024S .....	159	33431-051 .....	270	33922-300 .....	278	343520S .....	234
32118MR .....	440	323524M .....	160	333026S .....	159	33431-065 .....	272	<b>34 xxx</b>		343521M .....	234
3213MR .....	172	323524S .....	160	333028S .....	159	33461-100 .....	268	34011 .....	310	343522M .....	234
3214-35 .....	485	323526S .....	160	333030S .....	159	33461-101 .....	268	34011-1DG .....	310	343522S .....	234
3214-60 .....	485	323528S .....	160	333032S .....	159	33481-095 .....	273	34011-2DG .....	310	343523M .....	234
321510M .....	159	323530S .....	160	333032S .....	159	33481-096 .....	273	34011-2EG .....	310	343524M .....	234
321512M .....	159	323532S .....	160	333507M .....	159	33491-030 .....	269	34011-2EG .....	310	343524S .....	234
32209MR .....	440	3235VE08M .....	427	333508M .....	159	33491-031 .....	269	3406MP .....	237	343526S .....	234
32218MR .....	440	3235VE10M .....	427	333508S .....	159	335008M .....	164	343528S .....	234	34362-1CG .....	293
3221-03 .....	169	3235VE12M .....	427	333509M .....	159	335009M .....	164	34102-040M .....	582	34362-1DG .....	293
3221-06 .....	169	3235VE14M .....	427	333510M .....	159	335010M .....	164	3419PP .....	237	34362-1DK .....	293
3221-10 .....	169	32518MR .....	386	333510S .....	159	335011M .....	164	34207-1A .....	309	34362-1DK .....	303
3221-16 .....	169	32518MR01 .....	387	333511M .....	159	335012M .....	164	34211-3DG .....	310	34362-1GG .....	293
3221-18 .....	169	32518MR02 .....	387	333511S .....	159	335013M .....	164	34223-1A .....	305	34362-2CG .....	303
3221-24 .....	169	32526MRN .....	395	333512M .....	159	335014M .....	164	34223-1B .....	305	34362-2DG .....	293
3221VE-06 .....	427	32540MR .....	396	333512S .....	159	335015M .....	164	34223-1C .....	305	34362-2DK .....	293
3221VE-10 .....	427	3260-03P .....	236	333513M .....	159	335016M .....	164	34223-1DK1 .....	305	34362-2DK .....	293
3223-02 .....	169	3260-04P .....	236	333514M .....	159	335017M .....	164	34262-1CG .....	293	34362-2GG .....	293
3223-03 .....	169	3260-05P .....	236	333514S .....	159	335018M .....	164	34262-1DG .....	293	34362-3DG .....	293
3223-06 .....	169	3260-06P .....	236	333515M .....	159	335019M .....	164	34262-1DK .....	293	34367-2AG .....	308
3223-10 .....	169	3260-08P .....	236	333515S .....	159	335108M .....	164	34262-1GG .....	293	34367-2DK .....	308
3223-14 .....	169	3260-10P .....	236	333516M .....	159	335109M .....	164	34262-2DG .....	303	3436A-1DK .....	298
323007M .....	160	32607MR .....	440	333516S .....	159	335110M .....	164	34262-3DG .....	293	3436A-1DK01 .....	298
323008M .....	160	327504M .....	161	333517M .....	159	335111M .....	164	34266-1FG .....	303	3436A-1DK02 .....	298
323008S .....	160	327505M .....	161	333518M .....	159	335112M .....	164	34366-1FG .....	303	3436A-2DG .....	296
323009M .....	160	327506M .....	161	333518S .....	159	335113M .....	164	34466-1FG .....	303	3436A-2DK .....	298
323010M .....	160	327507M .....	161	333519M .....	159	335114M .....	164	34466-2FG .....	303	3436A-2DK02 .....	298
323010S .....	160	327508M .....	161	333519S .....	159	335115M .....	164	34466-3FG .....	303	3436A-2EG .....	296
323011M .....	160	327510M .....	161	333520M .....	159	335116M .....	164	34666-1DK .....	303	3436C-1DF .....	295
323012M .....	160	327511M .....	161	333520S .....	159	335117M .....	164	34666-1FG .....	303	3436C-1DK .....	295
323012S .....	160	327512M .....	161	333521M .....	159	335118M .....	164	34666-3DK .....	303	3436C-2DF .....	295
323013M .....	160	327514M .....	161	333522M .....	159	335119M .....	164	34666-3FG .....	303	3436E-1DK .....	302
323014M .....	160	327516M .....	161	333522S .....	159	33611-055 .....	272	3426A-1DG .....	296	3436E-1HG .....	302
323014S .....	160	327518M .....	161	333523M .....	159	33611-056 .....	272	3426A-1DK02 .....	296	3436E-2HG .....	302
323015M .....	160	32808MR .....	395	333524M .....	159	33621-075 .....	272	3426A-1DK02 .....	298	3436E-3HG .....	302
323016M .....	160	32809MR .....	393	333524S .....	159	33621-076 .....	272	3426A-1EG .....	296	34407-1A .....	309
323016S .....	160	3293-03 .....	169	333526S .....	159	33622-075 .....	272	3426A-2DG .....	296	34407T-1A .....	309
323017M .....	160	3293-06 .....	169	333528S .....	159	33622-076 .....	272	3426A-2EG .....	296	34417-1A .....	307
323018M .....	160	3293-10 .....	169	333530S .....	159	33631-110 .....	273	3426C-1DF .....	295	34423-1A .....	305
323018S .....	160	<b>33 xxx</b>		333532S .....	159	33631-111 .....	273	3426C-1DK .....	295	34423-1B .....	305
323019M .....	160	33108MR .....	378	3335VE06M .....	427	33632-110 .....	273	3426C-2DF .....	295	34423-1C .....	305
323020S .....	160	3311-06 .....	169	3335VE07M .....	427	33632-111 .....	273	3426E-1DK .....	302	34423-1DK1 .....	305
				3335VE08M .....	427	33671-160 .....	275	3426E-1HG .....	302	34423-2A .....	305

# Index .....

34423-2B ..... 305	34501127M ..... 298	34502216M ..... 300	34522-9DG ..... 297	3520MR ..... 173	363521 ..... 163
34423-2C ..... 305	34501130M ..... 298	34502216S ..... 300	3452407MR ..... 300	3520MR02 ..... 173	3641-35 ..... 343
34423-3DK ..... 305	34501132M ..... 298	34502217M ..... 300	3452DK ..... 169	35208MR ..... 381	3641-50 ..... 343
344251A12MR ..... 305	34501136M ..... 298	34502218M ..... 300	3453-08F ..... 169	3523MR ..... 173	3641-80 ..... 343
3442F-1DK ..... 304	34501213M ..... 299	34502218S ..... 300	3453DK ..... 169	3523MRV10 ..... 175	3641-C0 ..... 343
3442F-1KF ..... 304	34501214M ..... 299	34502219M ..... 300	34607-1A ..... 310	3523MRV11 ..... 175	3641-I0 ..... 343
3442F-3KF ..... 304	34501215M ..... 299	34502220S ..... 300	3465G-1FB ..... 306	3524MR ..... 173	365014B ..... 162
34440 ..... 311	34501216M ..... 299	34502221M ..... 300	3465G-2FB ..... 306	3527MR ..... 174	365016A ..... 162
34440A ..... 311	34501216S ..... 299	34502222M ..... 300	3465G-3FB ..... 306	3533MRV ..... 176	365016B ..... 162
3445G-1FB ..... 306	34501217M ..... 299	34502224M ..... 300	34660 ..... 311	3534MR ..... 174	366021 ..... 163
34462-1CG ..... 293	34501218M ..... 299	34502224S ..... 300	34660A ..... 311	353506M ..... 234	366516 ..... 163
34462-1DG ..... 293	34501218S ..... 299	34502227M ..... 300	34662-1CG ..... 293	353507M ..... 234	366521 ..... 163
34462-1DK ..... 293	34501219M ..... 299	34502230M ..... 300	34662-1DG ..... 293	353508M ..... 234	367018 ..... 163
34462-1DK ..... 303	34501220S ..... 299	34502232M ..... 300	34662-1DK ..... 293	353508S ..... 234	367021 ..... 163
34462-1EG ..... 293	34501221M ..... 299	34502234M ..... 300	34662-1GG ..... 293	353509M ..... 234	367514 ..... 163
34462-1GG ..... 293	34501222M ..... 299	34502236M ..... 300	34662-2CG ..... 293	353510M ..... 234	367516 ..... 163
34462-2CG ..... 293	34501222S ..... 299	34502241M ..... 300	34662-2DG ..... 293	353510S ..... 234	367518 ..... 163
34462-2DG ..... 293	34501223M ..... 299	34503102R ..... 298	34662-2FG ..... 293	353511M ..... 234	367521 ..... 162
34462-3DG ..... 293	34501224M ..... 299	34503103R ..... 298	34662-2GG ..... 293	353512M ..... 234	36A014 ..... 162
34462-3DK ..... 293	34501224S ..... 299	34503104R ..... 298	34662-3CG ..... 293	353512S ..... 234	36B014 ..... 162
34462-3DK ..... 303	34501225M ..... 299	34503203R ..... 298	34662-3DG ..... 293	353513M ..... 234	36B018 ..... 162
34462-4DG ..... 293	34501226M ..... 299	34503204R ..... 298	34662-3DK1 ..... 293	353514M ..... 234	36B514 ..... 162
34462-2FG ..... 293	34501226S ..... 299	34503206R ..... 298	34662-4EG ..... 293	353514S ..... 234	36C014 ..... 162
34462-2GG ..... 293	34501227M ..... 299	34504236M ..... 300	34662-3GG ..... 293	353515M ..... 234	36D014 ..... 162
34462-3GG ..... 293	34501228S ..... 299	34504245M ..... 300	34666-1DK ..... 303	353516M ..... 234	<b>37 xxx</b>
34464-1DK ..... 304	34501230M ..... 299	34504255M ..... 300	34666-1FG ..... 303	353516S ..... 234	3709MR10 ..... 165
34464-1FG ..... 304	34501230S ..... 299	34504262M ..... 300	34666-2DG ..... 303	353517M ..... 234	3716MR ..... 163
34464-2FG ..... 304	34501232M ..... 299	34504275M ..... 300	34666-3FG ..... 303	353518M ..... 234	372110S ..... 339
34467-1AG ..... 308	34501232S ..... 299	34504290M ..... 300	3466A-1DK ..... 298	353518S ..... 234	372111M ..... 339
34467-1DK ..... 308	34501234M ..... 299	34505102R ..... 300	3466A-1DK01 ..... 298	353519M ..... 234	372112M ..... 339
3446A-1DG ..... 296	34501236M ..... 299	34505201R ..... 300	3466E-1DK ..... 302	353520S ..... 234	372112S ..... 339
3446A-1DK ..... 298	34501236S ..... 299	34510 ..... 301	3466E-1HG ..... 302	353522S ..... 234	372114S ..... 339
3446A-1DK02 ..... 296	34501238M ..... 299	345101E08MR ..... 301	3466E-2HG ..... 302	353524S ..... 234	372115M ..... 339
3446A-1DK03 ..... 296	34501240M ..... 299	345102D08MR ..... 301	34688 ..... 311	3537MR ..... 174	372116M ..... 339
3446A-1DK ..... 298	34501240S ..... 299	345102E08MR ..... 301	34688-05A ..... 311	3545MRV ..... 176	372116S ..... 339
3446A-1DK02 ..... 298	34501241M ..... 299	345104D08MR ..... 301	34688-P01 ..... 311	3568MR ..... 177	372118M ..... 339
3446A-1EG ..... 296	34501248S ..... 299	34512-1CG ..... 297	34688-P02 ..... 311	3571-08 ..... 169	372118S ..... 339
3446A-2DG ..... 296	34501410M ..... 299	34512-1DG ..... 297	34688-P03 ..... 311	357505M ..... 235	372120S ..... 339
3446A-2EG ..... 296	34501411M ..... 299	34512-1EG ..... 297	3485G-1DB ..... 306	357506M ..... 235	372122S ..... 339
3446E-1DK ..... 302	34501412M ..... 299	34512-1FG ..... 297	3485G-2DB ..... 306	357507M ..... 235	372124S ..... 339
3446E-1HG ..... 302	34501413M ..... 299	34512-2CG ..... 297	34862-1CG ..... 293	357508M ..... 235	37221-030 ..... 283
3446E-2HG ..... 302	34501414M ..... 299	34512-2DG ..... 297	34862-1DG ..... 293	357510M ..... 235	37221-031 ..... 283
3446E-3HG ..... 302	34501416M ..... 299	34512-2EG ..... 297	34862-1EG ..... 293	357512M ..... 235	37235-030 ..... 284
34486 ..... 311	34501417M ..... 299	34512-2FG ..... 297	34862-1GG ..... 293	357514M ..... 235	37235-031 ..... 284
34486-05A ..... 311	34501418M ..... 299	34512-3CG ..... 297	34862-2CF ..... 294	35VE01MRV ..... 427	3725-08F ..... 167
34486-P03 ..... 311	34501419M ..... 299	34512-3DG ..... 297	34862-2CG ..... 294	<b>36 xxx</b>	3725-08G ..... 167
34488 ..... 311	34501421M ..... 299	34512-3EG ..... 297	34862-2DF ..... 294	3609MR10 ..... 164	3725DK ..... 167
34488-05A ..... 311	34501422M ..... 299	34512-3FG ..... 297	34862-2DG ..... 294	3611-06P ..... 342	373008M ..... 335
34488-26 ..... 312	34502107M ..... 299	34512-4DG ..... 297	34862-2DK ..... 293	3611-06R ..... 342	373009M ..... 335
34488-26DK ..... 312	34502108M ..... 299	3452-08F ..... 169	34862-2DK ..... 294	3611-08P ..... 342	373010M ..... 335
34488-P03 ..... 311	34502108S ..... 299	3452-10F ..... 169	34862-2EF ..... 294	3611-08R ..... 342	373011M ..... 335
34501107M ..... 298	34502110M ..... 299	34520DK ..... 301	34862-2EG ..... 294	3611-10P ..... 342	373012M ..... 335
34501108M ..... 298	34502110S ..... 299	345201D11MR ..... 301	34862-2FF ..... 294	3611-10R ..... 342	373013M ..... 335
34501108S ..... 298	34502111M ..... 299	345201E11MR ..... 301	34862-1FG ..... 294	3611-12P ..... 342	373014M ..... 335
34501109M ..... 298	34502112M ..... 299	345202C11MR ..... 301	34862-2FG ..... 294	3611-12R ..... 342	373015M ..... 335
34501110M ..... 298	34502112S ..... 299	345202D11MR ..... 301	34862-2GG ..... 294	3611-15HP ..... 342	373016M ..... 335
34501110S ..... 298	34502113M ..... 299	345202E11MR ..... 301	34862-3CF ..... 295	3611-15HR ..... 342	373017M ..... 335
34501111M ..... 298	34502114M ..... 299	345203D11MR ..... 301	34862-3DK ..... 295	3611-18HP ..... 342	373018M ..... 335
34501112M ..... 298	34502114S ..... 299	345203E11MR ..... 301	34862-3DK90 ..... 295	3611-18HR ..... 342	373019M ..... 335
34501112S ..... 298	34502115M ..... 299	34522-1CG ..... 297	34862-3DK91 ..... 295	3611-24HP ..... 342	373021M ..... 335
34501113M ..... 298	34502116M ..... 299	34522-1DG ..... 297	34862-3DK92 ..... 295	3611VE-06 ..... 429	373022M ..... 335
34501114M ..... 298	34502116S ..... 299	34522-1EG ..... 297	34862-3FF ..... 295	3611VE-08 ..... 429	373024M ..... 335
34501114S ..... 298	34502117M ..... 299	34522-1FG ..... 297	3488A03MP ..... 313	3611VE-10 ..... 429	373108M ..... 336
34501115M ..... 298	34502118M ..... 299	34522-2CG ..... 297	<b>35 xxx</b>	3611VE-12 ..... 429	373109M ..... 336
34501116M ..... 298	34502118S ..... 299	34522-2DG ..... 297	3508MR ..... 172	3612MR ..... 164	373110M ..... 336
34501116S ..... 298	34502119M ..... 299	34522-2EG ..... 297	3508MR10 ..... 170	3614-08R ..... 342	373111M ..... 336
34501117M ..... 298	34502120S ..... 299	34522-2FG ..... 297	3508SR ..... 172	3616-10 ..... 343	373112M ..... 336
34501118M ..... 298	34502121M ..... 299	34522-3CG ..... 297	35105MR ..... 380	3616S-08P ..... 343	373113M ..... 336
34501118S ..... 298	34502122M ..... 299	34522-3DG ..... 297	35107MR ..... 380	3616S-14P ..... 343	373114M ..... 336
34501119M ..... 298	34502122S ..... 299	34522-3EG ..... 297	3511-06 ..... 348	3619MR10 ..... 164	373115M ..... 336
34501120S ..... 298	34502124S ..... 299	34522-3FG ..... 297	3511-10 ..... 348	36206MR ..... 383	373116M ..... 336
34501121M ..... 298	34502126S ..... 299	34522-4DG ..... 297	35114MR ..... 383	363016 ..... 163	373117M ..... 336
34501122M ..... 298	34502128S ..... 299	34522-5DG ..... 297	35114MR01 ..... 383	363021 ..... 163	373118M ..... 336
34501122S ..... 298	34502213M ..... 300	34522-6DG ..... 297	35116MR01 ..... 380	3631-10R ..... 342	373119M ..... 336
34501124M ..... 298	34502214M ..... 300	34522-7DG ..... 297	3513MR ..... 170	363516 ..... 163	373121M ..... 336
34501124S ..... 298	34502215M ..... 300	34522-8DG ..... 297			

# Index .....

373122M .....	336	375014M .....	165	401413M .....	180	4026MR .....	200	404605 .....	183	4072SR .....	179
373124M .....	336	375014S .....	165	401414M .....	180	4026MR03 .....	200	404607 .....	183	407505M .....	243
373127M .....	336	375015M .....	165	401419M .....	180	4026MR04 .....	200	404608 .....	183	407506M .....	243
373130M .....	336	375016M .....	165	401505M .....	242	4026SR .....	200	404610 .....	183	407508M .....	243
373132M .....	336	375016S .....	165	401506M .....	242	4026SR03 .....	200	404612 .....	183	407510M .....	243
373202H .....	339	375017M .....	165	401507M .....	242	402720 .....	184	404614 .....	183	407512M .....	243
373202R .....	339	375018M .....	165	401508M .....	242	402725 .....	184	4047MR .....	203	407514M .....	243
373203R .....	339	375018S .....	165	401508S .....	242	402727 .....	184	404904 .....	184	409616M .....	243
373204R .....	339	375019M .....	165	401509M .....	242	402730 .....	184	404905 .....	184	40D006 .....	183
373210S .....	337	375020S .....	165	401510M .....	242	402740 .....	184	404906 .....	184	40D008 .....	183
373212S .....	337	375022S .....	165	401510S .....	242	402745 .....	184	404907 .....	184	40D010 .....	183
373214S .....	337	375024S .....	165	401512M .....	242	402750 .....	184	404908 .....	184	40D506 .....	183
373216S .....	337	3752-09G .....	167	401512S .....	242	402755 .....	184	404909 .....	184	40D508 .....	183
373218S .....	337	3752DK .....	167	401513M .....	242	402760 .....	184	404910 .....	184	40D510 .....	183
373220S .....	337	3755-08G .....	167	401514M .....	242	4028MR .....	199	404912 .....	184	<b>41 xxx</b>	
373222S .....	337	3755DK .....	167	401516S .....	242	4028SR .....	199	404913 .....	184	41026MR .....	108
373224S .....	337	3760-45 .....	167	401517M .....	242	402A10 .....	184	404914 .....	184	41026MRD .....	108
373228S .....	337	3760DK01 .....	167	401519M .....	242	402B16 .....	184	404916 .....	184	4104PR .....	190
373230S .....	337	3761-08F .....	167	40165R .....	197	402B18 .....	184	404925 .....	184	4105PR .....	194
37321-050 .....	283	3761-08P .....	167	402102 .....	183	4030CR .....	201	405320 .....	242	4106PR .....	193
37321-051 .....	283	3769-08F .....	168	402103 .....	183	4030CR01 .....	201	405325 .....	242	4108FR .....	204
373225H .....	339	3769-08P .....	168	402104 .....	183	4031MR .....	198	405327 .....	242	4108PR10 .....	194
37323-080 .....	284	3769DK .....	168	402208 .....	183	4031SR .....	198	405330 .....	242	4109PR .....	196
37323-081 .....	284	3771-08G .....	168	402210 .....	183	4032MR .....	199	405340 .....	242	4109PR10 .....	194
37334-080 .....	283	3771DK .....	168	402212 .....	183	4032SR .....	199	405345 .....	242	4110PR .....	196
37334-081 .....	283	3771VE-08 .....	427	402214 .....	183	403320 .....	184	405350 .....	242	4110PR10 .....	193
37335-030 .....	284	3774-08G .....	168	402216 .....	183	403325 .....	184	405355 .....	242	4110SR10 .....	193
37360809M .....	338	3774DK .....	168	402320 .....	184	403327 .....	184	405360 .....	242	4111FR .....	204
37361011M .....	338	3779-08F .....	168	402325 .....	184	403330 .....	184	405370 .....	242	4112FR .....	204
37361013M .....	338	3779-08G .....	168	402327 .....	184	403340 .....	184	405504M .....	242	4116FR01 .....	204
37361213M .....	338	3779DK .....	168	402330 .....	184	403345 .....	184	405505M .....	242	4116PR .....	194
37361415M .....	338	3781-11F .....	168	402340 .....	184	403350 .....	184	405506M .....	242	4117PR .....	196
37361618M .....	338	3781-11P .....	168	402345 .....	184	403355 .....	184	405506S .....	242	4118MR .....	193
37361719M .....	338	3781DK .....	168	402350 .....	184	403360 .....	184	405507M .....	242	4119PR .....	196
37370607M .....	338	378508M .....	163	402355 .....	184	403370 .....	184	405508M .....	242	4119PR10 .....	194
37370809M .....	338	378509M .....	163	402360 .....	184	4033MR .....	198	405508S .....	242	4120PR .....	196
37371011M .....	338	378510M .....	163	402370 .....	184	4033MR03 .....	201	405510M .....	242	4120PR10 .....	194
37371213M .....	338	378512M .....	163	4024MR .....	198	4033SR .....	198	405510S .....	242	4121-11GR .....	190
37371415M .....	338	378514M .....	163	4024SR .....	198	4034MR .....	201	405512M .....	242	4126PR .....	194
37371618M .....	338	378516M .....	163	4025VE04 .....	428	4034MR06 .....	201	405512S .....	242	4128PR .....	196
37372123M .....	338	3792 .....	170	4025VE05 .....	428	403504 .....	183	405513M .....	242	4136PR .....	194
37372224M .....	338	3794 .....	170	4025VE06 .....	428	403505 .....	183	405514M .....	242	414708S .....	243
373811M .....	338	3795-18 .....	348	4025VE08 .....	428	403506 .....	183	405514S .....	242	414710M .....	243
373812M .....	338	3795-24 .....	348	4025VE10 .....	428	403507 .....	183	405516M .....	242	414710S .....	243
373813M .....	338	3795-30 .....	348	402503 .....	183	403508 .....	183	405516S .....	242	414808S .....	243
373814M .....	338	3796P .....	236	402504 .....	183	403509 .....	183	405517M .....	242	414810M .....	243
373815M .....	338	<b>38 xxx</b>		402505 .....	183	403510 .....	183	405518M .....	242	414810S .....	243
3739J0813M .....	N16	3812 .....	170	402506 .....	183	403511 .....	183	405519M .....	242	4148PR10 .....	181
3739J1619M .....	N16	3814 .....	170	402506S .....	183	403512 .....	183	405608M .....	242	414A08S .....	243
373A07M .....	337	3814 .....	570	402507 .....	183	403514 .....	183	405610M .....	242	41526MR .....	108
373A08M .....	337	3862P .....	236	402507S .....	183	403517 .....	183	405612M .....	242	41526MRD .....	102
373A09M .....	337	3864P .....	236	402508 .....	183	403519 .....	183	40603GP .....	430	41517MRV .....	109
373A10M .....	337	3893EW .....	169	402508S .....	183	4035VE04 .....	428	406325 .....	242	41517MRVD .....	109
373A11M .....	337	3893EW-01 .....	169	402509 .....	183	4035VE05 .....	428	406327 .....	242	41542MRV .....	109
373A12M .....	337	3893EW-01 .....	169	402509S .....	183	4035VE06 .....	428	406330 .....	242	41542MRVD .....	109
373A13M .....	337	3893EW-02 .....	147	402510 .....	183	4035VE08 .....	428	406340 .....	242	4178VE-08 .....	428
373A14M .....	337	3893EW-02 .....	169	402510S .....	183	4035VE10 .....	428	406345 .....	242	<b>42 xxx</b>	
373A15M .....	337	<b>39 xxx</b>		402511 .....	183	403605 .....	183	406350 .....	242	4208MR .....	195
373A16M .....	337	39122008M .....	497	402512 .....	183	403606 .....	183	406355 .....	242	4208MR10 .....	193
373A17M .....	337	39123010M .....	497	402512S .....	183	403608 .....	183	406360 .....	242	4208SR .....	195
373A18M .....	337	39123012M .....	497	402514 .....	183	403610 .....	183	406504M .....	243	42104GP .....	359
373A19M .....	337	39124012M .....	497	402514S .....	183	403612 .....	183	406505M .....	243	42104GP01 .....	359
373A21M .....	337	<b>3E xxx</b>		402516S .....	183	403614 .....	183	406506M .....	243	42107GX .....	463
373A22M .....	337	3E07PR .....	171	402517 .....	183	403720 .....	184	406508M .....	243	42114GP .....	360
373A24M .....	337	<b>40 xxx</b>		402518S .....	183	403725 .....	184	406510M .....	243	42116GP .....	360
37423-080 .....	284	4010MR .....	193	402519 .....	183	403727 .....	184	406512M .....	243	4213MR .....	195
37423-081 .....	284	4010SR .....	193	402520S .....	183	403730 .....	184	406514M .....	243	42124GP .....	359
37434-080 .....	283	4012MR .....	197	402524S .....	183	403740 .....	184	406608 .....	183	42124GP01 .....	359
37434-081 .....	283	4012SR .....	197	402605 .....	183	403745 .....	184	406609 .....	183	42124GP04 .....	359
37435-075 .....	284	401408M .....	180	402606 .....	183	403750 .....	184	406610 .....	183	4215MR .....	195
37435-076 .....	284	401409M .....	180	402608 .....	183	403755 .....	184	406612 .....	183	42154GP .....	195
375010M .....	165	401410M .....	180	402610 .....	183	403760 .....	184	406614 .....	183	4216MR .....	195
375011M .....	165	401411M .....	180	402612 .....	183	404108 .....	184	406616 .....	183	4220MR .....	197
375012M .....	165	401412M .....	180	402614 .....	183	4042CR .....	202	4066MR .....	181	4221-18 .....	190
375012S .....	165			402616 .....	183	4042CR02 .....	202	4066SR .....	181	4221-24 .....	190
375013M .....	165			402618 .....	183	4044CR .....	202	4072MR .....	179		



# Index .....

4221-30 .....	190	423524M .....	180	4293-02 .....	190	433509MR .....	178	437508M .....	181	443510M .....	239
4221-36 .....	190	423524S .....	180	4293-05 .....	190	433510MR .....	178	437510M .....	181	443510S .....	239
42213GP01 .....	359	423525M .....	180	4293-10 .....	190	433510SR .....	178	437511M .....	181	443511M .....	239
4223-02R .....	190	423526M .....	180	<b>43 xxx</b>		433511MR .....	178	437512M .....	181	443512M .....	239
4223-05R .....	190	423526S .....	180	4306MRN .....	204	433512MR .....	178	437514M .....	181	443512S .....	239
4223-10R .....	190	423527M .....	180	4308MR .....	195	433512SR .....	178	437516M .....	181	443513M .....	239
4223MR .....	197	423528M .....	180	4308MR10 .....	193	433513MR .....	178	437518M .....	181	443514M .....	239
4224MR .....	199	423528S .....	180	4311-16F .....	190	433514MR .....	178	437520M .....	181	443514S .....	239
423008M .....	179	423529M .....	180	4311-16G .....	190	433514SR .....	178	437522M .....	181	443515M .....	239
423009M .....	179	423530M .....	180	4311MR .....	193	433515MR .....	178	437524M .....	181	443516M .....	239
423010M .....	179	423530S .....	180	4313MR01 .....	195	433515SR .....	178	<b>44 xxx</b>		443516S .....	239
423010S .....	179	423532M .....	180	4315MR .....	195	433516MR .....	178	4405MXL .....	248	443517M .....	239
423011M .....	179	423532S .....	180	4316MR .....	195	433516SR .....	178	4407MP .....	249	443518M .....	239
423012M .....	179	423533M .....	180	4320MR .....	197	433517MR .....	178	4408MP .....	246	443518S .....	239
423012S .....	179	423534M .....	180	4324MR .....	199	433518MR .....	178	4408SP .....	246	443519M .....	239
423013M .....	179	423534S .....	180	43240115Y .....	604	433518SR .....	178	4410MP .....	247	443520M .....	239
423014M .....	179	423536M .....	180	4325MR .....	200	433519MR .....	178	4410MP01 .....	247	443520S .....	239
423014S .....	179	423536S .....	180	43250115Y .....	604	433519SR .....	178	4410SP .....	247	443521M .....	239
423015M .....	179	423538M .....	180	43260115Y .....	604	433520MR .....	178	44106AMP01 ...	280	443522M .....	239
423016M .....	179	423538S .....	180	43270115Y .....	604	433520SR .....	178	44108AMP01 ...	280	443522S .....	239
423016S .....	179	423540S .....	180	43290115Y .....	604	433521MR .....	178	44116MP .....	279	443523M .....	239
423017M .....	179	423541M .....	180	43280212 .....	603	433522MR .....	178	44116MP04 .....	279	443524M .....	239
423018M .....	179	423542S .....	180	432A0113 .....	605	433522SR .....	178	44116MP10 .....	279	443524S .....	239
423018S .....	179	423544S .....	180	432A0213 .....	605	433523MR .....	178	44118MP .....	279	443525M .....	239
423019M .....	179	423546S .....	180	433008MR .....	178	433524MR .....	178	44118MP04 .....	279	443526M .....	239
423020M .....	179	423548S .....	180	433009MR .....	178	433524SR .....	178	44118MP10 .....	279	443526S .....	239
423020S .....	179	424508M .....	180	433010MR .....	178	433525MR .....	178	4412MP .....	246	443527M .....	239
423021M .....	179	424509M .....	180	433010SR .....	178	433525SR .....	178	4413MP .....	247	443528M .....	239
423022M .....	179	424510M .....	180	433011MR .....	178	433526MR .....	178	4413MP .....	247	443528S .....	239
423022S .....	179	424512M .....	180	433011MR .....	178	433526SR .....	178	4414MP .....	246	443529M .....	239
423023M .....	179	424513M .....	180	433012MR .....	178	433527MR .....	178	4414SP .....	246	443530M .....	239
423024M .....	179	424514M .....	180	433012SR .....	178	433528MR .....	178	441517M .....	241	443530S .....	239
423024S .....	179	42503PR .....	361	433013MR .....	178	433528SR .....	178	441519M .....	241	443532M .....	239
423025M .....	179	42504PR .....	361	433013SR .....	178	433529MR .....	178	441521M .....	241	443532S .....	239
423026M .....	179	4251-02R .....	190	433014MR .....	178	433530MR .....	178	441522M .....	241	443533M .....	239
423026S .....	179	4251-03R .....	190	433014SR .....	178	433530SR .....	178	4415MP .....	247	443534M .....	239
423027M .....	179	4251-04R .....	190	433015MR .....	178	433532MR .....	178	4415MP03 .....	247	443534S .....	240
423028M .....	179	4251-05R .....	190	433015SR .....	178	433532SR .....	178	4416SP .....	247	443536M .....	239
423028S .....	179	4251-06R .....	190	433016MR .....	178	433533MR .....	178	4417PP .....	249	443536S .....	240
423029M .....	179	4251-08R .....	190	433016SR .....	178	433533MR .....	178	4418MP .....	249	443538M .....	239
423030M .....	179	4251-10R .....	190	433017MR .....	178	433534MR .....	178	4419MP .....	247	443538S .....	240
423030S .....	179	4251VE-05 .....	428	433018MR .....	178	433534SR .....	178	<b>4421MP01.....N14</b>		443540S .....	240
423032M .....	179	4251VE-10 .....	428	433018SR .....	178	433536MR .....	178	4423MP .....	246	443541M .....	239
423032S .....	179	425508M .....	180	433019MR .....	178	433536SR .....	178	443008M .....	239	443541M .....	239
423033M .....	179	425508M .....	180	433019SR .....	178	433538MR .....	178	443009M .....	239	443542S .....	240
423034M .....	179	425509M .....	180	433020MR .....	178	433538SR .....	178	443010M .....	239	443546M .....	239
423034S .....	179	425510M .....	180	433020SR .....	178	433539MR .....	178	443011M .....	239	4452-15FR .....	190
423036M .....	179	425512M .....	180	433021MR .....	178	433540SR .....	178	443012M .....	239	4452-18FR .....	190
423036S .....	179	425513M .....	180	433022MR .....	178	433541MR .....	178	443012M .....	239	4452-24FR .....	190
423038S .....	179	425514M .....	180	433022SR .....	178	433546MR .....	178	443013M .....	239	4452DK .....	190
423040S .....	179	4260-03P .....	243	433023MR .....	178	4335VE08M .....	428	443014M .....	239	4452DK1 .....	190
423508M .....	180	4260-04P .....	243	433024MR .....	178	4335VE10M .....	428	443015M .....	239	4453-15F.....	190
423509M .....	180	4260-05P .....	243	433024SR .....	178	4335VE11M .....	428	443016M .....	239	4453-18F.....	190
423510M .....	180	4260-06P .....	243	433025MR .....	178	4335VE12M .....	428	443017M .....	239	4457MP .....	249
423510S .....	180	4260-08P .....	243	433025SR .....	178	4335VE13M .....	428	443018M .....	239	4461-24G .....	191
423511M .....	180	4260-10P .....	243	433026MR .....	178	4335VE14M .....	428	443019M .....	239	4462-18F .....	190
423512M .....	180	4260-12P .....	243	433026SR .....	178	4335VE15M .....	428	443020M .....	239	4462-24F .....	191
423512S .....	180	4260-16P .....	243	433027MR .....	178	4335VE16M .....	428	443020S .....	239	4462DK .....	191
423513M .....	180	4269-08-90 .....	244	433027MR .....	178	4335VE17M .....	428	443021M .....	239	4466MP .....	240
423514M .....	180	4269-08-A0 .....	244	433028MR .....	178	4335VE18M .....	428	443022M .....	239	4466MP-A .....	240
423514S .....	180	4269-08-B0 .....	244	433028SR .....	178	4335VE19M .....	428	443023M .....	239	4466MP-DA .....	240
423515M .....	180	4269-08-C0 .....	244	433029MR .....	178	4335VE20M .....	428	443024M .....	239	4466MP-DB .....	240
423516M .....	180	4269-08-D5 .....	244	433030MR .....	178	4335VE21M .....	428	443024S .....	239	4466SP .....	240
423516M .....	180	4269-08-F0 .....	244	433030SR .....	178	4335VE22M .....	428	443027M .....	239	4466SP-A .....	240
423516S .....	180	4269-08-G0 .....	244	433032MR .....	178	4335VE24M .....	428	443028S .....	239	4466SP-D .....	240
423517M .....	180	4269-08-H5 .....	244	433032SR .....	178	4335VE27M .....	428	443030M .....	239	4467PP .....	249
423518M .....	180	4269-08-J0 .....	244	433033MR .....	178	4335VE30M .....	428	443030S .....	239	4472MP .....	238
423518S .....	180	4269-08-K0 .....	244	433034MR .....	178	4335VE32M .....	428	443032M .....	239	4472MP-A .....	238
423519M .....	180	427508M .....	181	433034SR .....	178	433E .....	181	443032S .....	239	4472MP-D .....	238
4251VE-05 .....	428	427510M .....	181	433036MR .....	178	433E18M .....	181	443034S .....	239	4472SP .....	238
4251VE-10 .....	428	427512M .....	181	433036SR .....	178	433E20M .....	181	443036M .....	239	4472SP-A .....	238
423520M .....	180	427514M .....	181	433038SR .....	178	433E22M .....	181	443036S .....	239	4472SP-D .....	238
423520S .....	180	427516M .....	181	433040SR .....	178	433E24M .....	181	443040S .....	239	4476MP .....	249
423521M .....	180	427518M .....	181	433044SR .....	178	433E26M .....	181	443042S .....	239	44801AMP .....	281
423522M .....	180	427520M .....	181	433506MR .....	178	433E28M .....	181	443048S .....	239	44801AMP01 ...	281
423522S .....	180	427522M .....	181	433507MR .....	178	433E30M .....	181	443088M .....	239	44801BMP .....	281
423523M .....	180	427524M .....	181	433508MR .....	178	433E32M .....	181	443509M .....	239	44801FMP .....	281

# Index .....

44801FMP01	..... 281	453018S	..... 237	453534S	..... 238	4760-05	..... 186	493009M	..... 240	4B5522S	..... 243
44802AMP	..... 281	453019M	..... 237	453535M	..... 238	4760-05G	..... 186	493010M	..... 240	4B5526S	..... 243
44802BMP	..... 281	453020M	..... 237	453536M	..... 238	4760DK01	..... 186	493011M	..... 240	4B5528S	..... 243
44802FMP	..... 281	453020S	..... 237	453536S	..... 238	4762-10F	..... 186	493012M	..... 240	4B5530S	..... 243
44803AMP	..... 282	453021M	..... 237	453537M	..... 238	4762-10G	..... 186	493013M	..... 240	<b>4E xxx</b>	
44803BMP	..... 282	453022M	..... 237	453538M	..... 238	4762-10P	..... 186	493014M	..... 240	4E08PR	..... N17
44803FMP	..... 282	453022S	..... 237	453538S	..... 238	4762-15G	..... 186	493015M	..... 240	<b>50 xxx</b>	
4481PP1	..... 244	453023M	..... 237	453539M	..... 238	4762DK	..... 186	493016M	..... 240	5022MR	..... 213
44904MP	..... 248	453024M	..... 237	453540S	..... 238	4768-10F	..... 186	493017M	..... 240	5022SR	..... 213
44904MP01	..... N13	453024S	..... 237	453541M	..... 238	4768-10G	..... 186	493018M	..... 240	502503H	..... 388
44904MP02	..... N13	453025M	..... 237	453546M	..... 238	4768-10P	..... 186	493019M	..... 240	502503H.B	..... 388
44905MP	..... 248	453026M	..... 237	4535MR	..... 202	4768-15F	..... 186	493020M	..... 240	502504H	..... 388
44906MP	..... 248	453026S	..... 237	4542CR	..... 202	4768-15G	..... 186	493021M	..... 240	502504H.B	..... 388
44907MP	..... N13	453027M	..... 237	4542CR02	..... 202	4768DK	..... 186	493022M	..... 240	502505H	..... 388
44K732M	..... 230	453028M	..... 237	4544CR	..... 202	4771-10BR	..... 186	493023M	..... 240	502505H.B	..... 388
44K738M	..... 230	453028S	..... 237	4547MR	..... 203	4771-10FR	..... 186	493024M	..... 240	502506H	..... 388
44K745M	..... 230	453029M	..... 237	4566MR	..... 181	4771-10GR	..... 186	493027M	..... 240	502506H.B	..... 388
44K752M	..... 230	453030M	..... 237	4572-10	..... 191	4771DK	..... 186	493030M	..... 240	502506H.B	..... 388
44K758M	..... 230	453030S	..... 237	4572-12	..... 191	4771VE-10	..... 428	493032M	..... 240	502507H	..... 388
44K832M	..... 230	453032M	..... 237	4572DK	..... 191	4772-10F	..... 187	493036M	..... 240	502507H.B	..... 388
44K838M	..... 230	453032S	..... 237	4572MR	..... 179	4772DK01	..... 187	493510M	..... 240	502508H	..... 388
44K845M	..... 230	453033M	..... 237	4572SR	..... 179	4773-10GS	..... 188	493510S	..... 241	502508H.B	..... 388
44K852M	..... 230	453034M	..... 237	4573-10R	..... 191	4773-22GS	..... 189	493511M	..... 240	502509H	..... 388
44K858M	..... 230	453034S	..... 237	4573DK	..... 191	4773DK	..... 188	493512M	..... 240	502509H.B	..... 388
44K928M	..... 229	453036M	..... 237	457510M	..... 242	4774-10F	..... 187	493512S	..... 241	502510H	..... 388
44K932M	..... 229	453036S	..... 237	457512M	..... 242	4774-10G	..... 187	493513M	..... 240	502510H.B	..... 388
44K938M	..... 229	453038M	..... 237	457514M	..... 242	4774DK	..... 187	493514M	..... 240	5039CR	..... 213
<b>45 xxx</b>		453038S	..... 237	457516M	..... 242	4779-10BR	..... 187	493514S	..... 241	5060-08	..... 322
4501MR	..... 196	453041M	..... 237	457518M	..... 242	4779-10FR	..... 187	493516M	..... 241	5060-10	..... 322
4503MR01	..... 345	4531MR	..... 198	457520M	..... 242	4779-10GR	..... 187	493516S	..... 241	5060-12	..... 322
4505MR	..... 204	4531SR	..... 198	4581-10	..... 191	4779DK01	..... 187	493517M	..... 241	5060-14	..... 322
4505SR	..... 204	4532MR	..... 199	4583-12R	..... 191	4781-12F	..... 187	493517M	..... 241	5060-16	..... 322
4506MR	..... 345	4532SR	..... 199	4584-12R	..... 191	4781DK	..... 187	493518S	..... 241	5060-18	..... 322
4510MR	..... 193	4533MR	..... 198	45VE01MRV	..... 428	4791R	..... 192	493519M	..... 241	5060-20	..... 322
4510SR	..... 193	4533MR03	..... 201	<b>46 xxx</b>		4793	..... 192	493520S	..... 241	5060-22	..... 322
4511-06	..... 348	4533SR	..... 198	463014RC	..... 182	4794	..... 192	493521M	..... 241	5060-24	..... 322
4511-10	..... 348	4534MR	..... 201	463014RC	..... 570	4795-18	..... 348	493522M	..... 241	5060-26	..... 322
45115PP	..... 608	4534MR06	..... 201	463016RC	..... 182	4795-36	..... 348	493522S	..... 241	5060-28	..... 322
4511MR	..... 196	453508M	..... 238	463021RC	..... 182	4796P	..... 245	493523M	..... 241	5060-30	..... 322
4511SR	..... 196	453509M	..... 238	463021R	..... 570	4797P	..... 245	493524M	..... 241	5060-32	..... 322
4512MR	..... 197	453510M	..... 238	463514RC	..... 182	4798P	..... 245	493524S	..... 241	5060-34	..... 322
4512SR	..... 197	453510S	..... 238	463514RC	..... 570	4799P	..... 245	493526M	..... 241	5060-36	..... 322
4516MR	..... 197	453511M	..... 238	463516RC	..... 182	<b>48 xxx</b>		493526S	..... 241	5060-40	..... 322
4516SR	..... 197	453512M	..... 238	463516R	..... 570	4813	..... 191	493527M	..... 241	5063-14	..... 324
45211PP	..... 608	453512S	..... 238	463521R	..... 570	4815MP04	..... 248	493528S	..... 241	5063-16	..... 324
4523MRV01	..... 203	453513M	..... 238	466016	..... 182	4815MP05	..... 248	493530M	..... 241	5063-18	..... 324
4524MR	..... 198	453514M	..... 238	466016	..... 570	4816	..... 191	493532S	..... 241	5071-42	..... 322
4524MRV04	..... 203	453514S	..... 238	466021	..... 182	48280180	..... 603	493534S	..... 241	5071-44	..... 322
4524SR	..... 198	453515M	..... 238	466021	..... 570	483510M	..... 240	493536S	..... 241	5071-46	..... 322
452513M	..... 238	453516M	..... 238	466516C	..... 182	483511M	..... 240	493538S	..... 241	5071-48	..... 322
452514M	..... 238	453516S	..... 238	466516	..... 570	483512M	..... 240	493540S	..... 241	5071-50	..... 322
452517M	..... 238	453517M	..... 238	466521C	..... 182	483513M	..... 240	494515M	..... 241	5071-52	..... 322
452519M	..... 238	453518M	..... 238	466521	..... 570	483514M	..... 240	494517M	..... 241	5071-54	..... 322
452521M	..... 238	453518S	..... 238	467014C	..... 182	483516M	..... 240	494519M	..... 241	5071-56	..... 322
452522M	..... 238	453519M	..... 238	467016	..... 182	483517M	..... 240	494521M	..... 241	5071-58	..... 322
452524M	..... 238	453520M	..... 238	467021	..... 182	483519M	..... 240	494522M	..... 241	5071-60	..... 322
4526MR	..... 200	453520S	..... 238	467514C	..... 182	483521M	..... 240	49517MX	..... 241	5071-62	..... 322
4526MR03	..... 200	453521M	..... 238	467516	..... 182	483522M	..... 240	49519MX	..... 241	5071-64	..... 322
4526MR15	..... 203	453522M	..... 238	467521	..... 182	483523M	..... 240	49521MX	..... 241	5084-16	..... 322
4526SR	..... 200	453522S	..... 238	<b>47 xxx</b>		483524M	..... 240	<b>4B xxx</b>		5084-18	..... 222
4526SR03	..... 200	453523M	..... 238	4724-01	..... 373	483526M	..... 240	4B5510M	..... 243	<b>51 xxx</b>	
4528MR	..... 199	453524M	..... 238	4724-11G	..... 373	483527M	..... 240	4B5511M	..... 243	5169PR	..... 393
4528SR	..... 199	453524S	..... 238	4724DK	..... 373	483530M	..... 240	4B5512M	..... 243	<b>54 xxx</b>	
453008M	..... 237	453525M	..... 238	4725-10FR	..... 185	483535M	..... 240	4B5512S	..... 243	5450-08	..... 387
453009M	..... 237	453526M	..... 238	4725-10GR	..... 185	4844R	..... 192	4B5513M	..... 243	5450-10	..... 387
453010M	..... 237	453526S	..... 238	4725-12BR	..... 185	4863P	..... 245	4B5514M	..... 243	<b>55 xxx</b>	
453011M	..... 237	453527M	..... 238	4725-12FR	..... 185	4866P	..... 245	4B5514S	..... 243	5522MR	..... 213
453012M	..... 237	453528M	..... 238	4725-12GR	..... 185	4873P	..... 245	4B5515M	..... 243	<b>57 xxx</b>	
453013M	..... 237	453528S	..... 238	4725DKR01	..... 185	<b>49 xxx</b>		4B5516M	..... 243	572210M	..... 347
453014M	..... 237	453529M	..... 238	4752-12G	..... 186	49151719M	..... 241	4B5516S	..... 243	572212M	..... 347
453015M	..... 237	453530M	..... 238	4752DK	..... 186	49151921M	..... 241	4B5517M	..... 243	574208M	..... 347
453016M	..... 237	453530S	..... 238	4755-10G	..... 185	49152122M	..... 241	4B5518S	..... 243	574212M	..... 347
453016S	..... 237	453532M	..... 238	4755DK	..... 185	49152123M	..... 241	4B5520S	..... 243	574213M	..... 347
453017M	..... 237	453532S	..... 238	4756-10G	..... 185	49152426S	..... 241	4B5521M	..... 243	574214M	..... 347
453018M	..... 237	453533M	..... 238	4756DK	..... 185	493008M	..... 240	4B5522M	..... 243		
		453534M	..... 238								

# Index .....

575208M ..... 347	601514M ..... 253	6217-05 ..... 436	<b>63 xxx</b>	633084S ..... 205	<b>6424MP.....N14</b>
575210M ..... 347	601517M ..... 253	6224CR ..... 209	6311-06 ..... 354	633086S ..... 205	6431-10C ..... 355
575212M ..... 347	601519M ..... 253	6226CR ..... 210	6311-08 ..... 354	633088S ..... 205	6431-11C ..... 355
575213M ..... 347	601521M ..... 253	623030M ..... 206	6313-06 ..... 354	6331-06 ..... 355	643519M ..... 251
575214M ..... 347	601522M ..... 253	623032M ..... 206	6314-05 ..... 354	6331-08 ..... 355	643521M ..... 251
575217M ..... 347	601524M ..... 253	623033M ..... 206	6314MR ..... 209	6334-05 ..... 354	643522M ..... 251
576208M ..... 347	601527M ..... 253	623036M ..... 206	6314MR12 ..... 210	633517M ..... 206	643523M ..... 251
576210M ..... 347	601530M ..... 253	623039M ..... 206	6315-06 ..... 361	633518M ..... 206	643524M ..... 251
576213M ..... 347	601532M ..... 253	623041M ..... 206	6315-09 ..... 361	633519M ..... 206	643524S ..... 251
576214M ..... 347	6016MR ..... 209	623046M ..... 206	6316MR ..... 209	633520M ..... 206	643525M ..... 251
576217M ..... 347	6016SR ..... 209	623050M ..... 206	6317-06 ..... 437	633521M ..... 206	643526M ..... 251
577406M ..... 347	602360 ..... 207	6231-07 ..... 353	6318-08A ..... 430	633522M ..... 206	643526S ..... 251
577407M ..... 347	602370 ..... 207	6232-08 ..... 353	6319-11C ..... 354	633523M ..... 206	643527M ..... 251
577408M ..... 347	602380 ..... 207	623517M ..... 206	6323MR ..... 209	633524M ..... 206	643528M ..... 251
577409M ..... 347	602390 ..... 207	623518M ..... 206	6329-13C ..... 354	633525M ..... 206	643528S ..... 251
577410M ..... 347	6023A0 ..... 207	623519M ..... 206	633017M ..... 205	633526M ..... 206	643529M ..... 251
577411M ..... 347	6023MR ..... 209	623520M ..... 206	633019M ..... 205	633527M ..... 206	643530M ..... 251
577412M ..... 347	6023SR ..... 209	623521M ..... 206	633021M ..... 205	633528M ..... 206	643530S ..... 251
577413M ..... 347	602514 ..... 207	623522M ..... 206	633022M ..... 205	633529M ..... 206	643532M ..... 251
577414M ..... 347	602517 ..... 207	623523M ..... 206	633022S ..... 205	633530M ..... 206	643532S ..... 251
577415M ..... 347	602519 ..... 207	623524M ..... 206	633023M ..... 205	633531M ..... 206	643533M ..... 251
577416M ..... 347	602522 ..... 207	623525M ..... 206	633024M ..... 205	633532M ..... 206	643534M ..... 251
577417M ..... 347	6031-07 ..... 360	623526M ..... 206	633024S ..... 205	633533M ..... 206	643534S ..... 251
577418M ..... 347	6031-07R ..... 360	623527M ..... 206	633026M ..... 205	633534M ..... 206	643535M ..... 251
577419M ..... 347	6031-10 ..... 360	623528M ..... 206	633026S ..... 205	633535M ..... 206	643536M ..... 251
<b>59 xxx</b>	6031-10R ..... 360	623529M ..... 206	633027M ..... 205	633536M ..... 206	643536S ..... 251
59000810 ..... 326	609616M ..... 253	623530M ..... 206	633028M ..... 205	633537M ..... 206	643538M ..... 251
59001012 ..... 326	609616M10H ..... 253	623531M ..... 206	633028S ..... 205	633538M ..... 206	643538S ..... 251
59001214 ..... 326	609616M12H ..... 253	623532M ..... 206	633029M ..... 205	633539M ..... 206	643540M ..... 251
59001416 ..... 326	609616M14H ..... 253	623533M ..... 206	633030M ..... 205	633540M ..... 206	643540S ..... 251
59001618 ..... 326	609616M17H ..... 253	623534M ..... 206	633030S ..... 205	633541M ..... 206	643541M ..... 251
59001820 ..... 326	609616M19H ..... 253	623535M ..... 206	633032M ..... 205	633542M ..... 206	643542M ..... 251
59002022 ..... 326	609616M22H ..... 253	623536M ..... 206	633032S ..... 205	633543M ..... 206	643542S ..... 251
59002224 ..... 326	609622M ..... 253	623537M ..... 206	633033M ..... 205	633544M ..... 206	643543M ..... 251
59002628 ..... 326	609622M19H ..... 253	623538M ..... 206	633034M ..... 205	633545M ..... 206	643544M ..... 251
59003032 ..... 326	609622M22H ..... 253	623539M ..... 206	633034S ..... 205	633546M ..... 206	643544S ..... 251
59003034 ..... 326	609622M24H ..... 253	623540M ..... 206	633035M ..... 205	633547M ..... 206	643546M ..... 251
59003236 ..... 326	609622M27H ..... 253	623541M ..... 206	633036M ..... 205	633548M ..... 206	643546S ..... 251
59003640 ..... 326	609622M30H ..... 253	623542M ..... 206	633036S ..... 205	633549M ..... 206	643548M ..... 251
59301012 ..... 332	609622M32H ..... 253	623543M ..... 206	633038M ..... 205	633550M ..... 206	643548S ..... 251
59301214 ..... 332	<b>61 xxx</b>	623544M ..... 206	633038S ..... 205	633551M ..... 206	643550M ..... 251
59301618 ..... 332	6111-06 ..... 353	623545M ..... 206	633040S ..... 205	633552M ..... 206	643550S ..... 251
59301820 ..... 332	6111-07 ..... 353	623546M ..... 206	633041M ..... 205	633553M ..... 206	643552S ..... 251
59302224 ..... 332	6111-08 ..... 353	623547M ..... 206	633042M ..... 205	633554M ..... 206	643554S ..... 251
59302428 ..... 332	6112-09 ..... 353	623548M ..... 206	633042S ..... 205	633555M ..... 206	643555M ..... 251
59601214 ..... 327	6114-05 ..... 353	623549M ..... 206	633044S ..... 205	633556M ..... 206	643556S ..... 251
59601618 ..... 327	6116-07A ..... 430	623550M ..... 206	633046M ..... 205	633557M ..... 206	643558S ..... 251
59602022 ..... 327	6116-08A ..... 430	623551M ..... 206	633046S ..... 205	633558M ..... 206	643560M ..... 251
59602428 ..... 327	6121-06X ..... 362	623552M ..... 206	633048M ..... 205	633559M ..... 206	643560S ..... 251
59603032 ..... 327	6121-09X ..... 362	623553M ..... 206	633048S ..... 205	633560M ..... 206	643562S ..... 251
59700810 ..... 328	6131-12 ..... 356	623554M ..... 206	633050M ..... 205	633562M ..... 206	643564S ..... 251
59701012 ..... 328	6131-12P01 ..... 356	623555M ..... 206	633054M ..... 205	633563M ..... 206	643565M ..... 251
59701214 ..... 328	6131-14 ..... 356	623556M ..... 206	633055M ..... 205	633564M ..... 206	6452-18F ..... 207
59701416 ..... 328	6131-14P01 ..... 356	623557M ..... 206	633050S ..... 205	633565M ..... 206	6452-30F ..... 207
59701618 ..... 328	6131-18 ..... 356	623558M ..... 206	633052S ..... 205	633570M ..... 206	6452DK ..... 207
59701820 ..... 328	6131-18P01 ..... 356	623559M ..... 206	633054S ..... 205	6336-08A ..... 430	6462-40P ..... 207
59702022 ..... 328	6131-24 ..... 356	623560M ..... 206	633056S ..... 205	6337-06 ..... 437	6462DK ..... 207
59702224 ..... 328	6131-24P01 ..... 356	623563M ..... 206	633058M ..... 205	6339-13C ..... 354	6463-08C ..... 355
59702428 ..... 328	6131-30 ..... 356	623565M ..... 206	633058S ..... 205	6347-05 ..... 438	647518M ..... 252
59702628 ..... 328	6131-30P01 ..... 356	623570M ..... 206	633060M ..... 205	6377-55 ..... 437	647520M ..... 252
59703032 ..... 328	6131-36 ..... 356	6236-07A ..... 430	633060S ..... 205	63A7-05 ..... 438	647522M ..... 252
59703436 ..... 328	6131-36P01 ..... 356	6247-05 ..... 436	633062S ..... 205	63B7-05 ..... 438	647524M ..... 252
59703640 ..... 328	6131-42 ..... 356	6251-04 ..... 207	633063M ..... 205	<b>64 xxx</b>	64801AMP ..... 282
59703842 ..... 328	6131-42P01 ..... 356	6251-08 ..... 207	633064S ..... 205	6408MP ..... 255	64801BMP ..... 282
<b>60 xxx</b>	6133-08 ..... 356	6251-16 ..... 207	633065M ..... 205	6408MP10 ..... 255	64801FMP ..... 282
6011-05R ..... 360	6141-06C ..... 456	6260-04 ..... 254	633066S ..... 205	6408SP10 ..... 255	6482-24G ..... 208
6011-07 ..... 360	6141-08C ..... 456	6260-04P ..... 254	633068S ..... 205	6409MP ..... 255	6482DK ..... 208
6011-07R ..... 360	6146-08A ..... 430	6260-07 ..... 254	633070M ..... 205	6409MP03 ..... 255	64K765M ..... 230
6011-10 ..... 360	<b>62 xxx</b>	6260-07P ..... 254	633070S ..... 205	6409SP10 ..... 255	64K770M ..... 230
6011-10R ..... 360	6207-05 ..... 436	6260-10 ..... 254	633072S ..... 205	6410MP ..... 255	64K775M ..... 230
6012-07 ..... 360	6211-06 ..... 353	6260-10P ..... 254	633074S ..... 205	6410SP ..... 255	64K780M ..... 230
6012-10 ..... 360	6213-06 ..... 353	6260-13 ..... 254	633076S ..... 205	6411-06 ..... 355	64K865M ..... 230
6013-10R ..... 360	6214-05 ..... 353	6260-13P ..... 254	633078S ..... 205	64114FMP ..... 282	64K870M ..... 230
6014MR ..... 209	6214-45 ..... 353	6271-05C ..... 437	633080S ..... 205	64114AMP ..... 282	64K875M ..... 230
6014MR12 ..... 210	6216-06A ..... 430	6271-65C ..... 437	633082S ..... 205	6411MP ..... 254	64K880M ..... 230
					64K975M ..... 229



# Index .....

## 65 xxx

651017M	249
651018M	249
651019M	249
651021M	249
651022M	249
651023M	249
651024M	249
651026M	249
651027M	249
651028M	249
651029M	249
651030M	249
6511-10	356
6511-10C	356
6511-13C	356
6511-17C	356
651417M	252
651419M	252
651420M	252
651421M	252
651514M	250
651515M	250
651516M	250
651517M	250
651518M	250
651519M	250
651521M	250
651522M	250
651523M	250
651524M	250
651525M	250
651526M	250
651527M	250
651528M	250
651529M	250
651530M	250
6516-10	355
6516-10A	430
6516-10C	355
6517-08C	355
6517-10C	355
6517-12C	355
6518-10C	357
6521-13	369
6521-16	369
6521-21	369
6521-26	369
6522	N18
6522-12	N18
6522-16	N18
6522-22	N18
6522-25	N18
6522-29	N18
653017M	250
653019M	250
653021M	250
653022M	250
653023M	250
653024M	250
653026M	250
653027M	250
653028M	250
653029M	250
653030M	250
653032M	250
653033M	250
653034M	250
653035M	250
653036M	250
653038M	250
653040M	250
653041M	250
653042M	250
653046M	250

653063M	250
653065M	250
653070M	250
6531-10	369
6531-12	369
6531-14	369
6531-18	369
6531-24	369
6531-36	369
6531-48	369
6532-08	370
6532-10	370
6532-12	370
6532-14	370
6532-18	370
6532-24	370
6532-36	370
6532-48	370
6533-10L	370
6533-12L	370
6533-14L	370
6533-18L	370
6533-24L	370
6533-36L	370
6533-48L	370
653513M	250
653517M	250
653518M	250
653519M	250
653521M	250
653522M	250
653522S	251
653523M	250
653524M	250
653524S	251
653526M	250
653526S	251
653527M	250
653528M	250
653528S	251
653529M	250
653530M	250
653530S	251
653531M	250
653532M	250
653532S	251
653533M	250
653534M	250
653534S	251
653535M	250
653536M	250
653536S	251
653538M	250
653538S	251
653540M	250
653540S	251
653541M	250
653542M	250
653542S	251
653543M	250
653544M	250
653544S	251
653545M	250
653546M	250
653546S	251
653548M	250
653548S	251
653550M	250
653550S	251
653552M	250
653552S	251
653554M	250
653554S	251
653555M	250
653556S	251
653557M	250

653558M	250
653558S	251
653560M	250
653560S	251
653562S	251
653563M	250
653564S	251
653565M	250
653566S	251
653568S	251
653570M	250
653570S	251
653572S	251
653574S	251
653576S	251
6572-20	208
6572DK	208
657524M	252
657526M	252
657528M	252
657530M	252
657532M	252
6581-12	208
6581-18	208
6585-19	208
65SS-07	359

## 66 xxx

6605-08	361
6615-06	362
6615-11	362
6615-18	362
6625-06	362
6625-11	362
6625-18	362
6655-09	361
6665-09	361
66SB-07	358
66SS-07	358
66HB-07	358
66HS-07	358

## 67 xxx

6711-06	355
6716-06A	430
6721-10	465
6724-20F	207
6724DK	207
6732-09	465
6741-06	465
6751-44	459
6755-05	460
6756-05	460
6761-07	459
6762-08	459
6778-20FS	207
6778DK	207
6779-20F	207
6779DK	207
6781-85	463
6781P0A	463
6781P0B	463
6781P0C	463
6781P0D	463
6781P0F	463
6781P0H	463
6791	208
6797P	253
6798P	253
67A1-07	459
67B1-06	460
67B2-05	461
67B3-55	461
6BB11	439
6BC141-1	441
6BC141A	441
67F1-08	463

67G	464
67G0005	463
67G1-09	464
67G1P01	464
67GB-09	464
67GBP01	464
67GG-09	464
67GH-09	464
67GHP01	463
67GHP01	464
67GJ-09	464
67GJP01	463
67GJP01	464
67GK-09	464
67GKP01	463
67GKP01	464
67GL-09	464
67GLP01	464
67GLP01	463
67GN-09	463
67GN-09	464
67GNP01	463
67GNP01	464
67HB-07	358
67HS-07	358
67SB-07	358
67SS-07	359

## 68 xxx

6814	208
6818	208
683517M	252
683519M	252
683521M	252
683522M	252
683523M	252
683524M	252
683526M	252
683527M	252
683529M	252
683530M	252
683532M	252
6864	254
6864P	254
6868	254
6868P	254
6874	254
6874P	254
68GB-01	608
68GB-02	608
68GR-01	608
68GS-11	608
68GS-16	608
68GQ-01	608
68GQ-02	608
68HB-05	358
68HB-07	358
68HB-07L	359
68HB-10	358
68HS-05	358
68HS-07	358
68HS-10	358
68RB-01	608
68RR-01	608
68RS-11	608
68RS-16	608
68RQ-01	608
68SB-05	358
68SB-07	358
68SB-10	358
68SS-05	358
68SS-07	358
68SS-10	358
68ZZ-01	608
68ZZ-02	608

## 69 xxx

6921-05	353
6921-05C	353
6921-06	353
6921-06C	353
6921-07	353
6921-07C	353
6927-05	436
693519M	252
693521M	252
693522M	252
693523M	252
693524M	252
693524S	252
693526M	252
693526S	252
693527M	252
693528S	252
693529M	252
693530M	252
693530S	252
693532M	252
693532S	252
693534S	252
693536S	252
693538S	252
693540S	252

## 6A xxx

6AB12-55	453
6AB13-06	453
6AB14-06	454
6AB14-65	454
6AB21-65	453
6AB31-75	453
6AB33-95	455
6AC51-26	466
6AC52-12	466
6AD10-325	456
6AD10-3P01	456
6AD16-500	456
6AD17-150	456
6AD23-400	456
6AF11-125	443
6AF21-165	443
6AG11-20	444
6AH01-1	444
6AH01-2	444
6AH01-3	444
6AH01-4	444
6AH11	444
6AH12	444
6AH13	444
6AH14	444

## 6B xxx

6BB11	488
6BC100	443
6BC200	443
6BC141-1	441
6BC141A	441
6BC200	443
6BC210A	441
6BC210B	441
6BC210C	441
6BC210D	441
6BC210F	442
6BC23-1	442
6BC23A	441
6BC23B	441
6BC23F	441
6BC24A	441
6BC24B	441
6BC24C	441
6BC24F	441
6BC26-1	442
6BC26-3	442
6BC26A	441

6BC26B	441
6BC26C	441
6BC26F	441
6BC3007	442
6BC372	442
6BC372-1	442
6BC372-2	442
6BC372-3	442
6BC372-4	442
6BC372-5	442
6BD11	442
6BD22	442
6BE11-07	443
6BE12-07	443
6BE16-07	443
6BF11-17	442
6BF21-17	442
6BJ21	488
6BJ901	488

## 6C xxx

6CB02	450
6CB21	450
6CB31	448
6CB41	449

## 70 xxx

7003MR	222
7010MR	223
7011MR	216
7028MR	224
7053MR01	225
7077MR	218
7081MR	219
7082MR	217
7087MR	220
7096MR	215
7098MR	221

## 71 xxx

711002P	399
711002P-S1	401
711102H	399
711102H-S1	401
711103H	399
711103H-S1	401
711104H	399
711104H-S1	401
711105H	399
711105H-S1	401
711106H	399
711106H-S1	401
711107H	399
711107H-S1	401
711108H	399
711110H	399
711110T	399
711110T-S1	401
711110U	400
711110U-S1	402
711115T	399
711115T-S1	401
711115U	400
711115U-S1	402
711120T	399
711120T-S1	401
711120U	400
711120U-S1	402
711125H	399
711125H-S1	401
711125T	399
711125T-S1	401
711125U	400
711125U-S1	402
711127T	399
711127T-S1	401
711127U	400

# Index .....

711127U-S1 ..... 402	715003P-S1 ..... 401	715055S1-S1 ..... 401	719002P-S1 ..... 401	74A00..... 485	76104-05 ..... 471
711130T ..... 399	715003R ..... 400	715065S1 ..... 399	719002Z ..... 400	<b>75 xxx</b>	76104-74G ..... 473
711130T-S1 ..... 401	715003R-S1 ..... 402	715065S1-S1 ..... 401	719002Z-S1 ..... 402	750-100 ..... 403	76105-06 ..... 471
711130U ..... 400	715003S1 ..... 399	716502P ..... 399	719003P ..... 399	750-150 ..... 403	76106-74G ..... 473
711130U-S1 ..... 402	715003S1-S1 ..... 401	716502P-S1 ..... 401	719003P-S1 ..... 401	750-50A ..... 403	76108-74G ..... 473
711140T ..... 399	715003Z ..... 400	717000R ..... 400	719003Z ..... 400	750-60 ..... 403	7611006M ..... 405
711140T-S1 ..... 401	715003Z-S1 ..... 402	717000R-S1 ..... 402	719003Z-S1 ..... 402	750-75 ..... 403	7611008M ..... 405
711140U ..... 400	715004H ..... 399	717001P ..... 399	<b>72 xxx</b>	75035-06..... 496	76110-74G ..... 473
711140U-S1 ..... 402	715004H-S1 ..... 401	717001P-S1 ..... 401	721102P ..... 400	7503MR ..... 222	7611010M ..... 405
7112PR ..... 212	715004S1 ..... 399	717001R ..... 400	721102P-S1 ..... 402	751-60 ..... 403	7611012M ..... 405
7113PR ..... 212	715004S1-S1 ..... 401	717001R-S1 ..... 402	726502P ..... 400	751-75 ..... 403	7611013M ..... 405
711501P ..... 399	715004S2 ..... 399	717001Z ..... 400	726502P-S1 ..... 402	75101-08G ..... 495	7611014M ..... 405
711501P-S1 ..... 399	715004S2-S1 ..... 401	717001Z-S1 ..... 402	727502P ..... 400	75101-10G ..... 495	7611506M ..... 405
711502H ..... 401	715005H ..... 399	717002H ..... 399	727502P-S1 ..... 402	75102-08G ..... 495	7611507M ..... 405
711502P ..... 399	715005H-S1 ..... 401	717002P ..... 399	<b>73 xxx</b>	75102-10G ..... 495	7611508M ..... 405
711502P-S1 ..... 399	715005S1 ..... 399	717002P-S1 ..... 401	731101P ..... 400	7510MR ..... 223	7611510M ..... 405
711503H ..... 401	715005S1-S1 ..... 401	717002R ..... 400	731101P-S1 ..... 402	7511MR ..... 216	7611512M ..... 405
711503P ..... 399	715006H ..... 399	717002R-S1 ..... 402	731102P ..... 400	75135-06..... 496	7611513M ..... 405
711503P-S1 ..... 399	715006H-S1 ..... 401	717002Z ..... 400	731102P-S1 ..... 402	752-100 ..... 404	7611514M ..... 405
711504H ..... 401	715006S1 ..... 399	717002Z-S1 ..... 402	731103P ..... 400	752-150 ..... 404	7612006M ..... 405
711505H ..... 399	715006S1-S1 ..... 401	717003H ..... 399	731103P-S1 ..... 402	752-300 ..... 404	7612008M ..... 405
711505H-S1 ..... 401	715006T ..... 399	717003P ..... 399	731103P-S1 ..... 402	752-60 ..... 404	7612010M ..... 405
711506H ..... 399	715006T-S1 ..... 401	717003P-S1 ..... 401	731152P ..... 403	752-75 ..... 404	7612012M ..... 405
711506T ..... 401	715007H ..... 399	717003R ..... 400	731502P ..... 400	75201-08G ..... 495	7612014M ..... 405
711506T-S1 ..... 399	715007H-S1 ..... 401	717003R-S1 ..... 402	731502P-S1 ..... 402	75201-10G ..... 495	76125-74G ..... 473
711507H ..... 399	715007T ..... 399	717003Z ..... 400	731503P ..... 400	75202-08G ..... 495	7614208S ..... 405
711507H-S1 ..... 401	715007T-S1 ..... 401	717003Z-S1 ..... 402	731503P-S1 ..... 402	75202-10G ..... 495	7614210S ..... 405
711507T ..... 399	715008H ..... 399	717004H ..... 400	731552P ..... 403	75235-06..... 496	7614512S ..... 405
711507T-S1 ..... 401	715008H-S1 ..... 401	717005H ..... 402	734501P ..... 400	7528MR ..... 224	7616505M ..... 405
711508H ..... 399	715008T ..... 399	717005H-S1 ..... 402	734501P-S1 ..... 402	7528MR01 ..... 224	7616506M ..... 405
711508T ..... 401	715008T-S1 ..... 401	717006H ..... 399	734502P ..... 400	75302-08G ..... 495	7616507M ..... 405
711508T-S1 ..... 401	715009T ..... 399	717006H-S1 ..... 399	734502P-S1 ..... 402	75302-10G ..... 495	7616508M ..... 405
711509T ..... 399	715009T-S1 ..... 401	717006T ..... 399	734503P ..... 400	753-63 ..... 404	7616508S ..... 405
711509T-S1 ..... 401	715009U ..... 400	717006T-S1 ..... 401	734503P-S1 ..... 402	75335-06..... 496	7616510M ..... 405
711510T ..... 399	715009U-S1 ..... 402	717007H ..... 399	734551P ..... 403	754-90 ..... 404	7616510S ..... 405
711510T-S1 ..... 401	715010T ..... 399	717007T ..... 401	734552P ..... 403	75402-08G ..... 495	7616512M ..... 405
711512SH-S1 ..... 399	715010T-S1 ..... 401	717007T-S1 ..... 399	736501P ..... 400	75402-10G ..... 495	7616513M ..... 405
711515T ..... 401	715010U ..... 400	717008H ..... 399	736501P-S1 ..... 402	75435-06..... 496	7616512S ..... 405
711515T-S1 ..... 399	715010U-S1 ..... 402	717008T ..... 399	736502P ..... 400	755-300 ..... 404	7616514M ..... 405
711520T ..... 401	715012SH ..... 399	717008T-S1 ..... 399	736502P-S1 ..... 402	755-400 ..... 404	7616514S ..... 405
711520T-S1 ..... 399	715012SH-S1 ..... 401	717009T ..... 399	736503P ..... 400	75501-08G ..... 495	76210-10 ..... 472
711525T ..... 401	715014SH ..... 399	717009T-S1 ..... 401	736503P-S1 ..... 402	75501-10G ..... 495	76213-04 ..... 472
711525T-S1 ..... 399	715014SH-S1 ..... 401	717010T ..... 399	736552P ..... 403	75502-08G ..... 495	76213-06 ..... 472
711527T ..... 401	715015T ..... 399	717010T-S1 ..... 401	<b>74 xxx</b>	75502-10G ..... 495	76215-05 ..... 472
711527T-S1 ..... 212	715015T-S1 ..... 401	717010U ..... 400	74010 ..... 493	75535-06..... 496	76217-06 ..... 472
711530T ..... 212	715015U ..... 400	717010U-S1 ..... 402	74020 ..... 493	7553MR01 ..... 225	76218-75G ..... 473
711530T-S1 ..... 399	715015U-S1 ..... 402	7170115T ..... 399	74030 ..... 493	7558MR ..... 213	76219-75G ..... 473
711540T ..... 401	715020T ..... 399	717015T-S1 ..... 401	74040 ..... 493	7577MR ..... 218	76220-84G ..... 473
711540T-S1 ..... 400	715020T-S1 ..... 401	717015U ..... 400	74060 ..... 493	7581MR ..... 219	76222-84G ..... 473
7120PR ..... 402	715020U ..... 400	717015U-S1 ..... 402	741002P ..... 400	7581MR01 ..... 219	76220-07 ..... 472
7120PR01 ..... 399	715020U-S1 ..... 402	717020T ..... 399	741002P-S1 ..... 402	7582MR ..... 217	76223-08 ..... 472
715000P ..... 401	715025H ..... 399	717020T-S1 ..... 401	7411PP ..... 246	7587MR ..... 220	76224-10 ..... 472
715000P-S1 ..... 399	715025H-S1 ..... 401	717020U ..... 400	741502P ..... 400	7587MR01 ..... 220	76226-12 ..... 472
715001P ..... 399	715025T ..... 399	717020U-S1 ..... 402	741502P-S1 ..... 402	7587SR ..... 220	76301-05 ..... 471
715001P-S1 ..... 401	715025T-S1 ..... 401	717025H ..... 399	742002P ..... 400	7596MR ..... 215	76302-05 ..... 471
715002P ..... 399	715025U ..... 400	717025T ..... 399	74250 ..... 493	7598MR ..... 221	76302-74G ..... 473
715002P-S1 ..... 401	715025U-S1 ..... 402	717025T-S1 ..... 401	74260 ..... 493	759-140 ..... 404	76303-05 ..... 471
715003P ..... 399	715027T ..... 399	717025U ..... 400	74270 ..... 493	75A105M ..... 405	76303-74G ..... 473
715003P-S1 ..... 401	715027T-S1 ..... 401	717025U-S1 ..... 402	743002P ..... 400	75A106M ..... 405	76304-05 ..... 471
715004P ..... 399	715027U ..... 400	717027T ..... 399	743003P ..... 400	75A108M ..... 405	76304-74G ..... 473
715004P-S1 ..... 401	715027U-S1 ..... 402	717027T-S1 ..... 401	74410 ..... 494	75A110M ..... 405	76305-05 ..... 471
715000R ..... 400	715030T ..... 399	717027U ..... 400	74412 ..... 494	75A112M ..... 405	76305-74G ..... 473
715000R-S1 ..... 402	715030T-S1 ..... 401	717027U-S1 ..... 402	74414 ..... 494	75A114M ..... 405	76306-05 ..... 471
715001R ..... 400	715030U ..... 400	717030T ..... 399	74416 ..... 494	75A116M ..... 405	76306-74G ..... 473
715001R-S1 ..... 402	715030U-S1 ..... 402	717030T-S1 ..... 401	745002P ..... 400	<b>75RF09M.....N16</b>	76307-05 ..... 471
715001Z ..... 400	715035S1 ..... 399	717030U ..... 400	745002P-S1 ..... 402	<b>76 xxx</b>	76308-05 ..... 471
715001Z-S1 ..... 402	715035S1-S1 ..... 401	717030U-S1 ..... 402	74512 ..... 494	7601012M ..... 405	76308-74G ..... 473
715002H ..... 399	715040T ..... 399	717040T ..... 399	74514 ..... 494	7601013M ..... 405	76309-06 ..... 471
715002H-S1 ..... 401	715040T-S1 ..... 401	717040T-S1 ..... 401	74613 ..... 494	7605512M ..... 405	76310-06 ..... 471
715002R ..... 400	715040U ..... 400	717040U ..... 400	747501P ..... 400	7606512M ..... 405	76402-45 ..... 472
715002R-S1 ..... 402	715040U-S1 ..... 402	717040U-S1 ..... 402	747501P-S1 ..... 402	7606508S ..... 405	76402-55G ..... 473
715002Z ..... 400	715045S1 ..... 399	719001P ..... 399	747502P ..... 400	7606510S ..... 405	76403-05 ..... 472
715002Z-S1 ..... 402	715045S1-S1 ..... 401	719001P-S1 ..... 401	747502P-S1 ..... 402	7606512M ..... 405	76403-06 ..... 472
715003H ..... 399	715050T ..... 399	719001Z ..... 400	747503P ..... 400	7606512S ..... 405	76403-06G ..... 473
715003H-S1 ..... 401	715050T-S1 ..... 401	719001Z-S1 ..... 402	747503P-S1 ..... 402	7607510M ..... 405	76404-06 ..... 472
715003P ..... 399	715055S1 ..... 399	719002P ..... 399		76103-04 ..... 471	76404-07G ..... 473

# Index .....

76405-65 .....	472	7822-30 .....	470	7915A-19 .....	368	79962-15 .....	286	801536M.....	N14	843538S .....	257
76405-08G .....	473	7822-40 .....	470	7915A-28 .....	368	79962-20 .....	286	80155R .....	212	843540M .....	257
76406-07 .....	472	7822-45 .....	470	7916-0111 .....	368	79982-06 .....	285	809622M .....	258	843540S .....	257
76406-84G .....	473	7822-50 .....	470	7916-12M .....	368	79982-10 .....	285	809622M19H ...	258	843541M .....	257
76407-84G .....	473	7823-10 .....	470	7916-15M .....	368	799A0-23C .....	287	809622M22H ...	258	843542M .....	257
76408-08 .....	472	7823-15 .....	470	7916-21M .....	368	799A0-33C .....	287	809622M24H ...	258	843542S .....	257
76408-88G .....	473	7823-20 .....	470	7918-A0 .....	366	799A0-43C .....	287	809622M27H ...	258	843544S .....	257
76409-88G .....	473	7833-10 .....	470	7918-A011 .....	366	799A1-23C .....	287	809622M30H ...	258	843546M .....	257
76410-85 .....	472	7833-12 .....	470	7921-12 .....	495	799A1-33C .....	287	809622M32H ...	258	843546S .....	257
76410-09G .....	473	7833-15 .....	470	7932-04 .....	457	79A21-30 .....	485	<b>82 xxx</b>		843548M .....	257
76410-14G .....	473	7833-20 .....	470	7933-45 .....	457	79A22-30 .....	485	820001 .....	58	843548S .....	257
76412-09 .....	472	7834-50 .....	470	7935-08 .....	457	79B1-01 .....	385	820002 .....	58	843550M .....	257
76412-10G .....	473	7842-22 .....	471	7941-08 .....	457	<b>7A xxx</b>		820003 .....	58	843550S .....	257
76412-14G .....	473	7842-28 .....	471	7945-07P01 .....	455	7AA105 .....	487	820005 .....	58	843552M .....	257
7641206P .....	492	7842-35 .....	471	7946-07 .....	455	<b>7C xxx</b>		820011 .....	58	843552S .....	257
76414-10 .....	472	7842-45 .....	471	7946-07-S .....	456	7CA0107M .....	371	8251-08 .....	211	843554M .....	257
76414-11G .....	473	7842-60 .....	471	7962-03 .....	478	7CA0110S .....	371	8251-16 .....	211	843554S .....	257
76414-14G .....	473	7848-60 .....	471	7962-04 .....	478	7CA0606S .....	372	8260-07 .....	259	843555M .....	257
76416-12G .....	473	7848-80 .....	471	7962-06 .....	478	7CA0606S1 .....	372	8260-07P .....	259	843556S .....	257
76416-14G .....	473	7851-08 .....	471	7962-08 .....	478	7CA11-12S .....	372	8260-10 .....	259	843558M .....	257
76505-05 .....	472	7851-16 .....	471	7962-12 .....	478	7CA11-15M .....	372	8260-10P .....	259	843558S .....	257
76717-05 .....	474	7851-24 .....	471	7962B-05 .....	478	7CA11-16M .....	372	8260-13 .....	259	843560M .....	257
76721-06 .....	474	7851-32 .....	471	7962B-06 .....	478	7CA11-16S .....	372	8260-13P .....	259	843560S .....	257
76724-08 .....	474	7851-40 .....	471	7962B-08 .....	478	7CA11-16S .....	372	827011 .....	59	843562S .....	257
76729-10 .....	474	7851-48 .....	471	7962B-10 .....	478	7CA11-20S .....	372	<b>83 xxx</b>		843564S .....	257
76804-05 .....	474	7851-64 .....	471	7962B-35 .....	478	7CA11-24S .....	372	833036M .....	211	843565M .....	257
76807-06 .....	474	7852-23 .....	470	7963-03 .....	478	7CA15-10M .....	373	833038M .....	211	843566S .....	257
76B808M .....	406	7852-55 .....	470	7963-04 .....	478	7CA22BP01 .....	371	833038M .....	211	843568S .....	257
76B809M .....	406	7861-08 .....	470	7963-06 .....	478	7CA22BP10M ..	371	833041M .....	211	843570S .....	257
76B812M .....	406	7861-16 .....	470	7963-08 .....	478	7CA22P01 .....	371	833046M .....	211	843570M .....	257
76B813M .....	406	7861-20 .....	470	7963-12 .....	478	7CA22P20S .....	371	833046S .....	211	843572S .....	257
76B814M .....	406	7861-24 .....	470	7962B1PR .....	478	7CA61-A01 .....	372	833048S .....	211	8462-40P .....	211
76B815M .....	406	<b>786P06.....</b>	<b>N17</b>	796401MR .....	480	7CA61-A011 .....	372	833050M .....	211	8462DK .....	211
76B816M .....	406	<b>79 xxx</b>		7965-02 .....	478	7CA61-A02 .....	372	833054M .....	211	84700002B .....	59
76B819M .....	406	79062-12 .....	483	79711 .....	481	7CA61-A021 .....	372	833054S .....	211	84700003B .....	59
76B821M .....	406	79063-06 .....	484	7971-07 .....	458	7CA61-A03 .....	372	833055M .....	211	84700011B .....	59
76C1108M .....	406	79063-12 .....	484	7971-07P02 .....	458	7CA61-A031 .....	372	833058M .....	211	<b>85 xxx</b>	
76C1109M .....	406	79063-20 .....	484	79721 .....	481	7CA61-A04 .....	372	833060M .....	211	851417M .....	257
76C1110M .....	406	79063-40 .....	484	79731 .....	482	7CA61-A041 .....	372	833060S .....	211	851419M .....	257
76C1111M .....	406	79093-02M .....	482	7977-07 .....	458	7CA61-B01 .....	372	833063M .....	211	851420M .....	257
76C1112M .....	406	79093-03C .....	482	7977-07-S .....	458	7CA61-B011 .....	372	833064S .....	211	851421M .....	257
76C1113M .....	406	79093-03M .....	482	7977-07P02 .....	458	7CA61-B02 .....	372	833065M .....	211	851422M .....	257
76C1114M .....	406	79093-03M .....	482	7978-07 .....	458	7CA61-B021 .....	372	833067M .....	211	851426S .....	257
76C1117M .....	406	79093-05C .....	482	7978-07-S .....	458	7CA61-B03 .....	372	833070M .....	211	851426S .....	257
76C1119M .....	406	79093-05M .....	482	7978-07P02 .....	458	7CA61-B031 .....	372	833071M .....	211	852421M .....	257
76C1121M .....	406	79093-05M1 .....	482	7978-07 .....	458	7CA61-B04 .....	372	833071M .....	211	853417M .....	258
76C1123M .....	406	79093-08M .....	482	7978-07-S .....	458	7CA61-B041 .....	372	833072S .....	211	853419M .....	258
76C1124M .....	406	79093-08C .....	482	7978-07P02 .....	458	7CA61-B04 .....	372	833075M .....	211	853421M .....	258
<b>77 xxx</b>		79094-02M .....	482	79815 .....	512	7CA61P01 .....	372	833076S .....	211	853421M .....	258
7702-25 .....	406	79094-03C .....	482	79831 .....	512	7CA61P02 .....	372	833077M .....	211	853519M .....	256
7702-50 .....	406	79094-03M .....	482	79833 .....	512	7CA61P02 .....	372	833077M .....	211	853521M .....	256
7702-75 .....	406	79094-05C .....	482	79900-04 .....	285	7CA61P03 .....	372	833080M .....	211	853522M .....	256
7703-50 .....	406	79094-05C1 .....	482	79900-10 .....	285	7CA81-30H .....	487	833084S .....	211	853523M .....	256
7704-50 .....	406	79094-05M .....	482	79900-13 .....	285	7CA82-30 .....	487	833094S .....	211	853524M .....	256
77131-06 .....	484	79094-08M .....	482	79900-20 .....	285	<b>7D xxx</b>		8330A0S .....	211	853524S .....	256
77131-08 .....	484	79094-08C .....	482	79901-04 .....	285	7DM1160 .....	483	<b>84 xxx</b>		853525M .....	256
77141-06 .....	484	79094-08C .....	482	79901-13 .....	285	<b>7E xxx</b>		8404MP.....	260	853526M .....	256
77328-26 .....	484	79095-05M .....	482	79901-20 .....	285	7E61001 .....	496	84087637BKT ...	42	853526S .....	256
77335-25 .....	484	79095-05M-S .....	482	79901-20 .....	285	7E111 .....	409	8408MP .....	260	853527M .....	256
77340-20 .....	484	7911-12 .....	494	<b>7990A0.....</b>	<b>N18</b>	7E111 .....	410	8408MP02 .....	260	853528M .....	256
7743-56 .....	406	7912-0111 .....	366	<b>7990A-P02.....</b>	<b>N19</b>	7E51180-60 .....	407	8409MP .....	260	853528S .....	256
7744-60 .....	406	7912-21 .....	366	<b>7990A-P03.....</b>	<b>N19</b>	7E51180-80 .....	407	8410MP .....	260	853529M .....	256
7773GS .....	187	7912-22 .....	366	<b>7990A-P04.....</b>	<b>N19</b>	<b>7H xxx</b>		8410SP .....	260	853530M .....	256
<b>78 xxx</b>		7912-23 .....	366	<b>7990A-P05.....</b>	<b>N19</b>	7HA03 .....	373	843524M .....	257	853530S .....	256
<b>78106.....</b>	<b>N17</b>	7912-2311 .....	366	<b>7990A-P06.....</b>	<b>N19</b>	7HA11 .....	373	843527M .....	257	853532M .....	256
7811-08 .....	470	7913-42 .....	369	<b>7990A-P07.....</b>	<b>N19</b>	7HA21 .....	373	843528M .....	257	853532S .....	256
7811-12 .....	470	7913-4211 .....	369	<b>7990A-P08.....</b>	<b>N19</b>	<b>7K xxx</b>		843530M .....	257	843530M .....	256
7811-16 .....	470	7913A-63 .....	369	79910-10 .....	287	7K09MP .....	230	843530S .....	257	843532M .....	256
7811-24 .....	470	7913A-6311 .....	369	79910-15 .....	287	7K09MP01 .....	230	843532S .....	257	843533M .....	256
7811-32 .....	470	7913B-35 .....	368	79911-10 .....	287	<b>80 xx</b>		843533M .....	257	843534M .....	256
7811-40 .....	470	7913B-3511 .....	368	79911-15 .....	287	8015MR .....	212	843534M .....	257	843534S .....	257
7811-40 .....	470	7914A-35 .....	367	79912-10 .....	287	<b>801524M.....</b>	<b>N14</b>	843535M .....	257	843535M .....	256
7811-32 .....	470	7914A-0111 .....	367	79912-15 .....	287	<b>801527M.....</b>	<b>N14</b>	843536M .....	257	843536S .....	257
7811-40 .....	470	7914C-70 .....	367	79953-10 .....	286	<b>801530M.....</b>	<b>N14</b>	843536S .....	257	843538M .....	257
7821-30 .....	470	7914C-7021 .....	367	79953-15 .....	286	<b>801532M.....</b>	<b>N14</b>	843538M .....	257		
7821-50 .....	470	7915-30 .....	367	79960-10 .....	286						
7821-80 .....	470	7915-3011 .....	367	79960-15 .....	286						
				79960-20 .....	286						
				79962-10 .....	286						



# Index .....

853541M ..... 256	87102 ..... 630	87432-5B ..... 37	87D11-071A-B ..... 32	<b>87SQ32-8B-BK.... N6</b>	9-22308TR ..... 121
853542M ..... 256	87103 ..... 630	87432-5B-B ..... 37	87D11-071A-G ..... 32	<b>87SQ32-9B-BK.... N6</b>	9-22308TRV ..... 83
853542S ..... 256	87104 ..... 385	87432-5B-G ..... 37	87D11-08A ..... 31	<b>87SQ32-10B-BK.... N6</b>	9-2331SRV ..... 76
853544M ..... 256	87104 ..... 630	87432-5G ..... 37	87D11-08SA ..... 31	<b>87SQ33-6B-BK.... N6</b>	9-2516MRV03 ..... 90
853544S ..... 256	87105 ..... 630	87432-5G-B ..... 37	87D11-09A ..... 31	<b>87SQ33-7B-BK.... N6</b>	9-2524MRV ..... 90
853545M ..... 256	871061A ..... 289	87432-5G-G ..... 37	87D11-09SA ..... 31	<b>87SQ33-8B-BK.... N6</b>	9-2526MR ..... 123
853546M ..... 256	871061A ..... 630	87434-7B ..... 37	87D11-10A ..... 31	<b>87SQ34-10B-BK.... N8</b>	9-2528MRV ..... 90
853546S ..... 256	871061B ..... 289	87434-7B-B ..... 37	87D11-10SA ..... 31		9-2534MRV ..... 76
853548M ..... 256	871061B ..... 630	87434-7B-G ..... 37	87D11-11A-KB ..... 28	<b>88 xxx</b>	9-2544SRV ..... 86
853548S ..... 256	871061F ..... 630	87434-7G ..... 37	87D11-11A-KG ..... 28	8816 ..... 211	9-2548CR ..... 111
853550M ..... 256	871061F ..... 289	87434-7G-B ..... 37	87D11-12A-KB ..... 28	883524M ..... 257	9-2548CR01 ..... 111
853550S ..... 256	87107 ..... 630	87434-7G-G ..... 37	87D11-12A-KG ..... 28	883527M ..... 257	9-2548CRV ..... 70
853552M ..... 256	87108 ..... 474	87435-13B ..... 38	87D11-13A-KB ..... 32	883529M ..... 257	9-2548MRV ..... 86
853552S ..... 256	87108 ..... 630	87441-1B ..... 43	87D11-13A-KG ..... 32	883530M ..... 257	9-2550MRV ..... 78
853553M ..... 256	87110 ..... 630	87441-3B ..... 43	87D11-14A ..... 33	883532M ..... 257	9-2553MRV ..... 87
853554M ..... 256	87111 ..... 630	87446-3B-KR ..... 44	87D11-14SA ..... 33	883533M ..... 257	9-2553MRV01 ..... 87
853554S ..... 256	87118 ..... 482	87446-3B-KB ..... 44	87D11-15A-KB ..... 32	883534M ..... 257	9-2565MRV ..... 76
853555M ..... 256	8711B ..... 630	87452B-B ..... 45	87D11-15A-KG ..... 32	883535M ..... 257	9-25VE01MRV ..... 77
853556S ..... 256	87125 ..... 629	87452C-B ..... 45	87D11-16A-B ..... 33	883536M ..... 257	9-30106MR ..... 132
853558M ..... 256	87137 ..... 51	87502 ..... 47	87D11-16A-G ..... 33	883538M ..... 257	9-30110CR ..... 122
853558S ..... 256	8714101B ..... 51	87502-01 ..... 44	87D11-17A-KB ..... 26	883541M ..... 257	9-30206MR ..... 132
853560M ..... 256	87152 ..... 629	87502-02 ..... 44	87D11-17A-KG ..... 26	8866 ..... 259	9-30208MRV ..... 83
853560S ..... 256	87153 ..... 629	87502-050 ..... 44	87D11-18A-KB ..... 25	8866P ..... 259	9-30216MRV ..... 89
853562S ..... 256	87154 ..... 629	87502-051 ..... 44	87D11-18A-KG ..... 25	8869 ..... 259	9-3023MR01 ..... 114
853563M ..... 256	87154-01 ..... 289	87502-054 ..... 44	87D11-19A-KB ..... 28	8869P ..... 259	9-3023MRV11 .. 87
853564S ..... 256	87154-01 ..... 629	87502-058 ..... 44	87D11-19A-KG ..... 28		9-30612MRV ..... 85
853565M ..... 256	87156 ..... 289	87502-061 ..... 44	87D11-20A-K ..... 30	<b>9- xxx</b>	9-30904AY ..... 127
853566M ..... 256	87156 ..... 629	87502-064 ..... 44	87D11-20LA-K ..... 30	9-1011GP ..... 128	9-30904AY ..... 604
853566S ..... 256	87156A ..... 289	87502-068 ..... 44	87D11-21A-KB ..... 26	9-10112MR ..... 124	9-30904AYV ..... 78
853568M ..... 256	87156A ..... 629	87502-11 ..... 44	87D11-21A-KG ..... 26	9-10112MRV ..... 77	9-30909AY ..... 127
853568S ..... 256	87157-06 ..... 628	87502-12 ..... 44	87D11-22A-KB ..... 26	9-10115MR ..... 119	9-30909AY ..... 605
853570M ..... 256	87157-09 ..... 628	87502P01 ..... 47	87D11-22A-KG ..... 26	9-102A12MR ..... 124	9-30909AYV ..... 79
853570S ..... 256	87162 ..... 515	87502P02 ..... 46	87D11-23A-KB ..... 30	9-102A15MR ..... 119	9-31006MR ..... 131
853571M ..... 256	87163 ..... 515	87502P03 ..... 46	87D11-23A-KG ..... 30	9-1044CQV ..... 89	9-31106MR ..... 124
853572S ..... 256	8720 ..... 150	87502P011 ..... 47	87D11-24A-K ..... 29	9-1112MRV ..... 82	9-31124MRV ..... 75
853574S ..... 256	87201 ..... 47	87502P012 ..... 47	87D11-25A-KB ..... 29	9-1205MR ..... 116	9-31110MR ..... 122
853575M ..... 256	87203 ..... 628	87512 ..... 47	87D11-25A-KG ..... 29	9-12110MR ..... 128	9-31110MRV ..... 75
853576S ..... 256	8720813D1 ..... 150	8760 ..... 208	87D11-26A-K ..... 31	9-12120MR ..... 119	9-31909PR ..... 122
853578S ..... 256	8730 ..... 172	8760807D1 ..... 208	87D11A-KB ..... 23	9-1215MR03 ..... 133	9-31919MR ..... 125
853580M ..... 256	87301-494A ..... 628	87634-7B ..... 38	87D11A-KG ..... 23	<b>9-91215MRV.....N11</b>	9-31920MRV ..... 74
853580S ..... 256	87301-496A ..... 628	87634-7B-B ..... 38	87D11X01SA-KB .. 19	9-1216MR ..... 116	9-34128FR ..... 122
853582S ..... 256	87301-498A ..... 628	87634-7B-G ..... 38	87D11X01SA-KG .. 19	9-1216MR01 ..... 116	9-3523MR ..... 114
853584S ..... 256	87301-499A ..... 628	87711C ..... 51	87D11X02SA-KB .. 20	9-1216MR03 ..... 116	9-3523MRV10 ..... 87
853585M ..... 256	87306-36-B ..... 628	87721B ..... 51	87D11X02SA-KG .. 20	9-1217MR ..... 132	9-3523MRV11 ..... 87
853586S ..... 256	87307A ..... 628	87722B ..... 52	87D11X03A-KB .. 21	9-1218MR ..... 116	9-3544MRV ..... 79
853588S ..... 256	8730811D1 ..... 172	87723B ..... 53	87D11X03A-KG .. 21	9-1219MR01 ..... 116	9-35VE01MRV ..... 78
853590M ..... 256	8740 ..... 194	87724D ..... 52	87D11X04A-KB .. 21	9-1220MRV ..... 81	<b>9-35VE02MRV.....N12</b>
853590S ..... 256	87401-2 ..... 49	87731D ..... 53	87D11X04A-KG .. 22	9-1272MR ..... 117	9-3612MR ..... 127
853595M ..... 256	87401-3 ..... 49	87732D ..... 52	87D11X05A-KB .. 22	9-1282MR ..... 117	9-40102GP ..... 111
853592S ..... 256	87401-3H ..... 49	87733D ..... 52	87D11X05A-KG .. 32	9-12A1MR ..... 129	9-40102GPV ..... 70
853594S ..... 256	87402 ..... 50	8779-32F ..... 211	87D11X06A-KB.... 32	9-12A1MRV ..... 82	9-40103GP ..... 124
853596S ..... 256	87404 ..... 50	8779DK ..... 211	87D11X06A-KG.... 32	9-12C7MR ..... 127	9-40104GPV ..... 88
8535A0S ..... 256	87405-1 ..... 55	8797 ..... 259	87D11X06SA-KB .. 32	9-12D20MRV ..... 81	9-40112GPV ..... 70
8535A0M ..... 256	87405-2 ..... 55	8797P ..... 259	87D11X06SA-KG .. 32	9-12FVE15MRV ... 84	9-40113GPV ..... 88
8535A4S ..... 256	87405-3 ..... 55	87A05 ..... 50	87E02-051A ..... 33	9-12FVG15MRV ... 84	9-40122GPV ..... 70
8535A8S ..... 256	87405-9 ..... 55	87A051 ..... 50	87E02-053A ..... 33	9-1303MR ..... 123	9-40203GP ..... 132
8535B2S ..... 256	87407 ..... 50	87A05-KB ..... 50	87E02-061A ..... 33	9-1606MR ..... 132	9-4026MR02 ..... 110
85451735M ..... 258	87408 ..... 50	87A051-KB ..... 50	87E02-063A ..... 33	9-1606MR01 ..... 132	9-40207GP ..... 120
85451941M ..... 258	8740809D1 ..... 194	87A08 ..... 50	87G001DQ-BK ..... 41	9-1608MR ..... 117	9-40207GP01 ..... 120
85452038M ..... 258	87411-6B ..... 48	87C23-B ..... 609	87G11-4B-BK ..... 41	9-1609MR ..... 117	9-4029CR ..... 133
85452041M ..... 258	87411-9B ..... 48	87C24-B ..... 610	87G31-7B-BK ..... 40	9-1709MR ..... 117	9-4057MR ..... 126
85452141M ..... 258	87417-10B ..... 48	87C25-B ..... 610	87G41-B ..... 43	9-1711MR ..... 118	9-40604GP ..... 120
8572-25 ..... 211	87419-5B ..... 48	87C34-3B-B ..... 45	<b>87SQ3-11..... N9</b>	9-1716MR ..... 132	9-40606GPV ... 85
8572DK ..... 211	87421-3B ..... 49	87D11-01A-KB ..... 26	<b>87SQ3-12..... N9</b>	9-1812MR ..... 118	9-40618GP ..... 128
8581-26 ..... 211	87422-3B ..... 49	87D11-01A-KG ..... 26	<b>87SQ3-13..... N9</b>	9-1838MR ..... 118	9-4116FR ..... 132
<b>87 xxx</b>	87431-5BE ..... 46	87D11-02A-KB ..... 24	<b>87SQ3-22..... N9</b>	9-1905MR ..... 123	9-4116FR03 ..... 132
870208 ..... 150	87432-15 ..... 42	87D11-02A-KG ..... 24	<b>87SQ3-31..... N9</b>	9-1905MR ..... 330	9-4119PR ..... 123
870311 ..... 172	87432-17 ..... 42	87D11-03A-KB ..... 27	<b>87SQ3-32..... N9</b>	9-1912MR ..... 118	9-4120PR ..... 123
870406 ..... 150	87432-23 ..... 42	87D11-03A-KG ..... 27	<b>87SQ3-23.....N10</b>	9-1C08MR ..... 119	9-4128FR ..... 124
870406 ..... 172	87432-24 ..... 42	87D11-04A-KB ..... 27	<b>87SQ3-33.....N10</b>	9-20110MR ..... 124	9-4129PRV ..... 76
870406 ..... 194	87432-31 ..... 42	87D11-04A-KG ..... 27	<b>87SQ3-41.....N10</b>	9-2044SRV ..... 86	9-4138PR ..... 126
870410 ..... 194	87432-32 ..... 42	87D11-05A-10 ..... 33	<b>87SQ3-42.....N10</b>	9-2048MRV ..... 86	9-4138PRV ..... 76
870422 ..... 150	87432-33 ..... 42	87D11-05A-KB ..... 27	<b>87SQ3-51.....N10</b>	9-21-20-07MRV .. 89	9-4143FRV ..... 77
870422 ..... 172	87432-34 ..... 42	87D11-05A-KG ..... 27	<b>87SQ31-6B-BK.... N5</b>	9-22108MR ..... 121	9-4147PRV ..... 88
870422 ..... 194	87432-41 ..... 42	87D11-06A-B ..... 31	<b>87SQ31-7B-BK.... N5</b>	9-22108MRV ..... 83	9-4156PR ..... 133
	87432-52 ..... 42	87D11-06A-G ..... 31	<b>87SQ31-8B-BK.... N5</b>	9-22124MRV50 .... 74	9-42102GPV ..... 70

# Index .....

9-42114GP .....	111	9-90128SR .....	111	90405 .....	259	932-010MR .....	94	9535A4S .....	261	<b>9A xxx</b>	
9-42114GPV .....	70	9-90129CR .....	112	90406 .....	259	932-010MRD .....	94	9535A5M .....	261		
9-42116GPV .....	82	9-90129CRV .....	71	9052-001MRV.....	56	932-010MR-B .....	94	9535A6S .....	261	9A05-062MR .....	102
9-42144GP .....	120	9-90131MR .....	116	9052-001MRV.....	433	932-010MR-G .....	94	9535A8S .....	261	9A05-062MR-KB... 102	
9-4219MR .....	131	9-90135MRV .....	88	9052-002MRV.....	57	934-001MR .....	98	9535B0M .....	261	9A05-065MR .....	103
9-4219MR07 .....	131	9-90135SRV .....	88	9052-002MRV.....	228	934-001MRD .....	98	9535B0S .....	261	9A05-065MR-KB... 103	
9-4219SR08 .....	131	9-90138CR .....	112	90601 .....	245	934-001MR-B .....	98	9535B2S .....	261	9A05-068MR .....	103
9-4221MRV .....	79	9-90145CRV .....	71	90602 .....	245	934-001MR-G .....	98	9535B4S .....	261	9A05-068MR-KB... 103	
9-4235MR .....	129	9-90154CR .....	113	90603 .....	254	934-010MRV .....	63	9535B5M .....	261	9A05-084MR01... 104	
9-4319MR .....	131	9-90154CR01 .....	113	90604 .....	254	934-010MRV .....	518	9535B6S .....	261	9A05-084MR01-KB 104	
9-4319MR01 .....	131	9-90205GN .....	120	90605 .....	259	934-010MRV.....	63	9535B8S .....	261	9A05-084SR .....	104
9-4319MR02 .....	131	9-90205GN01 .....	120	90606 .....	259	934-010MRV.....	518	9535C0M .....	261	9A05-084SR-KB .....	104
9-4319MR05 .....	131	9-90217GRV .....	74	90607 .....	254	934-010MRV-B... 63	934-010MRV-B..... 518	9535C0S .....	261	9A05-089MR01 .....	105
9-4328MR .....	114	9-90220MR .....	112	90608 .....	236	934-010MRV-G .....	63	9535C2S .....	261	9A05-089MR01-KB 105	
9-4333MR .....	114	9-90220MR01 .....	112	90609 .....	236	934-010MRV-G .....	518	9535C4S .....	261	9A05-103MR .....	105
9-4333MR03 .....	114	9-90305TQV .....	89	9063MR .....	214	934-010MRV-G..... 518	934-010MRV..... 64	9535C5M .....	261	9A05-103MR-KB... 105	
9-4335MR .....	129	9-90305TQV01 .....	89	9063MR01 .....	214	934-011MRV .....	64	9535C6S .....	261	9A05-109MR .....	106
9-4338MR .....	130	9-90310MR .....	122	908-077CR .....	107	934-011MRVD... 64	934-011MRV-B... 64	9535C8S .....	261	9A05-109MR-KB... 106	
9-4338MR01 .....	130	9-90315MR .....	118	908-077CRD .....	107	934-011MRV-B... 64	934-011MRV-G... 64	9535D0M .....	261	9A05-132CR .....	106
9-4338MR03 .....	130	9-90329CR .....	112	<b>91 xxx</b>		934-011MRV-G... 64	934-011MRV .....	9535D0S .....	261	9A05-132CR-KB... 106	
9-4401MPV .....	88	9-90408TQ .....	125	91000M .....	192	934-019MRV .....	65	9535D2S .....	261	9A05-164MR .....	102
9-4419MPV .....	81	9-9040SRV .....	80	91038MY01 .....	445	934-019MRVD .....	65	9535D4S .....	261	9A05-164MR-KB .. 102	
9-44214GPV .....	88	9-90413TQV .....	75	911-000CR .....	100	934-019MRV-B ... 65	934-019MRV-G ... 65	9535D5M .....	261	9AA11 .....	549
9-4427MP .....	126	9-9077CRV .....	69	911-000CRO2 .....	100	934-019MRV-G ... 65	<b>934-086MRVD.....N11</b>	9535D6S .....	261	9AA13 .....	549
9-4429MPV .....	77	<b>9-90VE09CRV.....N12</b>		911-000CRV .....	67	<b>934-235MRV..... 62</b>	934-235MRVD... 62	9535D8S .....	261	9AA15 .....	550
9-4435MP .....	129	9-91016MR .....	128	911-002CR .....	100	934-235MRV-B... 62	934-235MRV-G... 62	9535E0M .....	261	9AA16 .....	549
9-44803AMPV .....	73	9-91026PR .....	123	911-003CR .....	101	934-235MRV-B... 62	934-235MRV-G... 62	9535E0S .....	261	9AA17 .....	550
9-44803AMPV01 .. 73		9-91113SRV .....	90	911-003CR01 .....	101	935-525CRV .....	66	9535E2S .....	261	9AA21 .....	549
9-44805AMPV .....	73	9-91120MR .....	119	911-004CRV .....	67	935-525CRV .....	66	9535E4S .....	261	9AA25 .....	550
9-4516MR .....	113	9-91122MRV .....	74	9113PR.....	148	935-525CRVD .....	66	9535E8S .....	261	9AA31 .....	550
9-4522MR .....	113	9-91124MRV .....	75	9113PR.....	170	<b>94 xxx</b>		9535F0M .....	261	9AA32 .....	550
9-4526MR .....	110	9-91126SRV .....	71	9113PR.....	192	941-101MRD .....	95	9535F2S .....	261	9AB11 .....	551
9-4526MRV05 .....	79	9-91131MRV .....	71	91230 .....	440	941-101MR .....	95	9535F6S .....	261	9AB12 .....	551
9-4527MRV02 .....	80	9-91190CRV .....	83	91232 .....	386	<b>95 xxx</b>		9535G0S .....	261	9AC125-32 .....	552
9-4537MRV .....	80	<b>9-91215MRV.....N11</b>		91333MQ .....	445	9519MR50 .....	227	9535G4S .....	261	9AC125-40 .....	552
9-4557MR .....	126	9-91217MRV .....	75	91422 .....	629	953532M .....	261	9535G8S .....	261	9AC175-32 .....	552
9-45VE01MRV .....	78	9-93523MR .....	115	91431 .....	471	953533M .....	261	9535J2S .....	261	9AC175-40 .....	552
9-45VE02MRV .....	91	9-94435MP .....	125	91431 .....	628	953534M .....	261	9543MR .....	226	9AC175-66 .....	552
9-4827MP .....	126	9-94437MRV .....	73	91432 .....	628	953536M .....	261	9563MR .....	214	9AC231-54 .....	552
9-5575MR .....	115	9-99430MFV .....	72	91451-01A .....	289	953538M .....	261	9563MR01 .....	214	9AD11 .....	552
9-55VE01MRV .....	84	9-99430MFV01 ... 72		91451-01A .....	628	953541M .....	261	<b>96 xxx</b>		9AE0-6414 .....	558
9-6010MR .....	133	<b>90 xxx</b>		91451-01B .....	289	953542M .....	261	9634-001MR .....	98	9AE0-7414 .....	558
9-6010MR01 .....	133	901-068MR .....	99	91451-01F .....	289	953546M .....	261	9634-001MR-B .. 98		9AE1-6414 .....	555
9-6314MRV .....	72	901-069MR .....	99	91451-01F .....	628	953550M .....	261	9634-001MR-G .. 98		9AE2002 .....	556
9-6414MP .....	129	902-062MR .....	102	91522H .....	471	953555M .....	261	9634-008MR .....	97	9AE2004 .....	556
9-6414MPV .....	81	902-062MRD .....	102	91528H .....	471	953560M .....	261	9634-008MR-B .. 97		9AE2016 .....	556
9-64145P .....	129	902-065MR .....	103	91535H .....	471	953564S .....	261	9634-008MR-G ... 97		9AE2-10615 .....	555
9-7069CR .....	110	902-065MRD .....	103	91545H .....	471	953565M .....	261	9634-009MR .....	93	9AE2-10815 .....	555
9-7069CR01 .....	110	902-068MR .....	103	91560H .....	471	953566S .....	261	9634-009MR-B ... 93		9AE2-10818 .....	555
9-7069CRV .....	69	902-068MRD .....	103	91522S .....	471	953568S .....	261	9634-009MR-G ... 93		9AE2-6514 .....	555
9-7078CR .....	110	902-084MR01 .....	104	91535S .....	471	953570M .....	261	9634-009MR-B .. 93		9AE2-6514 .....	556
9-7078CR01 .....	110	902-084MRD01 .. 104		91545S .....	471	953570S .....	261	9634-010MR .....	94	9AE2-6514 .....	556
9-7128PR .....	126	902-084SR .....	104	91560S .....	471	953572S .....	261	9634-010MR-B ... 94		9AE2-6567 .....	555
9-7128PRV .....	77	902-084SRD .....	104	919-001CRV .....	68	953574S .....	261	9634-010MR-G ... 94		9AE2-6606 .....	555
9-7537MR .....	115	902-089MR01 .....	105	<b>92 xxx</b>		953575M .....	261	9634-010MRV ... 63		9AE2-6606 .....	556
9-7540MR .....	115	902-089MRD01 .. 105		92543MR .....	229	953576S .....	261	9634-010MRV-B .. 63		9AE2-6606 .....	556
9-7560MRV01 .....	80	902-103MR .....	105	92543MR01 .....	229	953578S .....	261	9634-010MRV-G .. 518		9AE2-7476 .....	555
9-7576MR .....	125	902-103MRD .....	105	9260-13 .....	260	953580M .....	261	9634-010MRV-B .. 518		9AE2-7608 .....	555
9-9003MRV01 .....	72	902-109MR .....	106	9260-13P .....	260	953580S .....	261	9634-010MRV-G... 63		9AE2-7608 .....	555
9-90103PP .....	121	902-109MRD .....	106	<b>93 xxx</b>		953582S .....	261	9634-011MRV ... 64		9AE2-7612 .....	555
9-90103PP01 .....	121	902-132CR .....	106	932-000MR .....	96	953584S .....	261	9634-011MRV-B... 64		9AE2-7614 .....	555
9-90103PP02 .....	121	902-132CRD .....	106	932-000MRD .....	96	953585M .....	261	9634-011MRV-G... 64		9AE2-8616 .....	555
9-90103RR .....	121	902-164MR .....	102	932-000MR-B .....	96	953588S .....	261	9634-011MRV .....	63	9AE2-8618 .....	555
9-90104GP .....	130	902-164MRD .....	102	932-000MR-G .....	96	953590M .....	261	9634-011MRV-B... 64		9AE2-9210 .....	555
9-90106SR .....	121	90217PQ .....	444	932-008MR .....	97	953590S .....	261	9634-011MRV-G... 64		9AE2-9315 .....	555
9-90109MN .....	119	90217PQ01 .....	444	932-008MRD .....	97	953592S .....	261	9634-011MRV .....	65	9AE2-9315 .....	556
9-90111MR .....	133	9033CR .....	214	932-008MR-B .....	97	953594S .....	261	9634-235MRV .....	62	9AE2-9345 .....	556
9-90113MA .....	131	90401 .....	245	932-008MR-G .....	97	953595M .....	261	9634-235MRV-B... 62		9AE2-9618 .....	555
9-90114MR .....	128	90402 .....	245	932-009MR .....	93	953596S .....	261	9644-101MR .....	95	9AE2-10615 .....	555
9-90115MR .....	132	90403 .....	254	932-009MRD .....	93	953598S .....	261	<b>97 xxx</b>		9AE2-10815 .....	555
9-90118PRV .....	89	9043MR .....	226	932-009MR .....	93	953595M .....	261	97121PQ .....	444	9AE2-10818 .....	555
9-90119MRV .....	82	90404 .....	254	932-009MR-B .....	93	953596S .....	261	<b>98 xxx</b>		9AE221 .....	557
9-90120MR .....	132	90405 .....	254	932-009MR-G .....	93	953598S .....	261	9868 .....	260	9AE221 .....	560
9-90121MR .....	130					9535A0M .....	261	9868P .....	260	9AE31-73 .....	552
9-90125MR .....	132					9535A0S .....	261				
9-90126MR .....	130					9535A2S .....	261				

# Index .....

9AE31-85 ..... 552	9AH0331 ..... 565	9AT2107E ..... 524	9BC5110M ..... 577	9BU251 ..... 589	9DC22 ..... 598
9AE31-95 ..... 552	9AH31 ..... 566	9AT2-A01 ..... 528	9BC5111M ..... 577	9BU251T ..... 589	9DC23 ..... 597
9AE31-111 ..... 552	9AH41 ..... 567	9AT2-A01 ..... 530	9BD101 ..... 577	9BU252 ..... 589	9DC242 ..... 598
9AE31-121 ..... 552	9AJ017 ..... 566	9AT2-A01 ..... 533	9BE11 ..... 578	9BU252T ..... 589	9DC243 ..... 598
9AE31-134 ..... 552	9AJ3122 ..... 566	9AT2-A01 ..... 536	9BE21 ..... 578	9BU41 ..... 590	9DC51 ..... 599
<b>9AE31X-120.....N23</b>	9AJ3122A ..... 567	9AT2-A01 ..... 544	9BE41 ..... 578	9BU8109 ..... 285	9DD21 ..... 599
<b>9AE31X-135.....N23</b>	9AJ3127 ..... 567	9AT2-C01 ..... 532	9BE42 ..... 578	9BU8109 ..... 589	9DD22 ..... 599
<b>9AE31X-145.....N23</b>	9AJ3222 ..... 567	9AT2-C01 ..... 541	9BE43 ..... 578	9BU8112 ..... 285	9DH11 ..... 599
9AE32-110 ..... 553	9AJ3322 ..... 567	9AT2-D01 ..... 526	9BE44 ..... 578	9BU8112 ..... 589	9DM1361 ..... 447
9AE32-155 ..... 553	9AJ4122 ..... 567	9AT2-D01 ..... 534	9BE45 ..... 578	9BU8209 ..... 285	9DM1381 ..... 447
9AE33-110 ..... 553	9AJ4227 ..... 567	9AT2-D01 ..... 545	9BE51 ..... 579	9BU8209 ..... 589	9DM1A1 ..... 599
9AE33-155 ..... 553	9AJ4229 ..... 567	9AT2-E01 ..... 545	9BE52 ..... 579	9BU8212 ..... 285	9DM2351 ..... 448
9AE42 ..... 562	9AJ4322 ..... 566	9AT3-A01 ..... 545	9BE62 ..... 579	9BU8212 ..... 589	9DN12 ..... 450
9AE43 ..... 562	9AK11 ..... 568	9AT3-A02 ..... 546	9BE63 ..... 579	9BV1420 ..... 284	9DP1101 ..... 600
9AE433 ..... 557	9AK21 ..... 568	9AT3-A03 ..... 536	9BF11 ..... 580	9BV1420T ..... 285	9DP1301 ..... 600
9AE433 ..... 560	9AL11 ..... 568	9AT3-A04 ..... 546	9BF21 ..... 580	9BW0120 ..... 584	9DP1302 ..... 600
9AE433 ..... 562	9AL12 ..... 568	9AT3-B01 ..... 546	9BF31 ..... 580	9BW0220 ..... 284	9DP2301 ..... 600
9AE52 ..... 562	9AM010 ..... 568	9AT3-F01 ..... 546	9BF33 ..... 581	9BW0221 ..... 584	9DP3201 ..... 601
9AE52-110 ..... 562	9AM011 ..... 568	9AT3-F02 ..... 546	9BG11 ..... 580	9BW4501 ..... 586	9DT11 ..... 601
9AE53-115 ..... 562	9AM012 ..... 564	9AT3-E01 ..... 533	9BK11 ..... 581	9BW4502 ..... 586	9DT11-1 ..... 601
9AE6002 ..... 559	9AN021 ..... 567	9AT3-E02 ..... 528	9BK31 ..... 581	9BW4801 ..... 586	9DT11-2 ..... 601
9AE6030 ..... 560	9AN4128 ..... 567	9AT3-E02 ..... 530	9BK32 ..... 549	<b>9C xxx</b>	9DT11-3 ..... 601
9AE6-6514 ..... 558	9AN4227 ..... 567	9AT3-E02 ..... 537	9BK41 ..... 581	9CD14 ..... 595	9DT11-4 ..... 601
9AE6-6514 ..... 559	9AN43 ..... 539	9AW4901 ..... 571	9BK41-20 ..... 581	9CD21 ..... 595	9DT11-5 ..... 601
9AE6-6514A ..... 558	9AP100 ..... 569	9AW4911 ..... 571	9BK41-28 ..... 581	9CD31 ..... 596	9DT11-6 ..... 601
9AE6-6567 ..... 558	9AP120 ..... 569	<b>9B xxx</b>	9BK41-38 ..... 581	9CF-107 ..... 592	9DT11-7 ..... 601
9AE6-6567 ..... 558	9AP160 ..... 569	9BA01 ..... 479	9BK41-53 ..... 581	9CF110 ..... 591	9DT11-8 ..... 601
9AE6-6606 ..... 558	9AR11 ..... 569	9BA02 ..... 480	9BK41-65 ..... 581	9CF120 ..... 591	9DT11-9 ..... 601
9AE6-6814 ..... 558	9AR21 ..... 569	9BA03 ..... 480	9BK41-73 ..... 582	9CF130 ..... 591	9DT11-10 ..... 601
9AE6-7314 ..... 538	9AR29-S ..... 569	9BA11 ..... 571	9BK43 ..... 581	9CF131 ..... 591	9DT11-11 ..... 601
9AE6-7414 ..... 558	9AS11 ..... 569	9BA21 ..... 479	9BK43-65 ..... 581	9CF132 ..... 591	9DT11-12 ..... 601
9AE6-7415 ..... 558	9AT1002E ..... 529	9BA21P01 ..... 479	9BK7008 ..... 587	9CF-207 ..... 592	<b>9H xxx</b>
9AE6-7476 ..... 558	9AT1002E ..... 541	9BA21P011 ..... 479	9BK7009 ..... 587	9CF210 ..... 591	9HBE083 ..... 579
9AE6-7577 ..... 558	9AT1007E ..... 542	9BA21P02 ..... 479	9BK711 ..... 587	9CF220 ..... 592	9HBE4-30 ..... 578
9AE6-7608 ..... 558	9AT1009E ..... 520	9BA21P03 ..... 479	9BK72 ..... 587	9CF230 ..... 592	9HBE4-39 ..... 578
9AE6-7612 ..... 558	9AT1010E ..... 523	9BA21P04 ..... 479	9BK72-12 ..... 587	9CF240 ..... 592	9HBE4-47 ..... 578
9AE6-7614 ..... 558	9AT1010E ..... 527	9BA21P05 ..... 479	9BK72-13 ..... 587	9CF241 ..... 592	9HBE4-58 ..... 578
9AE6-7630 ..... 558	9AT1018E ..... 519	9BA21P06 ..... 479	9BK72-14 ..... 587	9CF-307 ..... 592	9HBE4-62 ..... 578
9AE6-7815 ..... 558	9AT1021E ..... 528	9BA21P07 ..... 479	9BK72-16 ..... 587	9CH01 ..... 593	9HBE4-67 ..... 578
9AE6-8015 ..... 558	9AT1026E ..... 531	9BA22 ..... 479	9BK72-22 ..... 587	9CH212 ..... 593	9HBE81 ..... 579
9AE6-8082 ..... 531	9AT1102E ..... 521	9BA22P01 ..... 479	9BK72-28 ..... 587	9CI016 ..... 595	9HBL11-05 ..... 583
9AE6-8414 ..... 558	9AT1103E ..... 538	9BA22P011 ..... 479	9BK73-14 ..... 587	9CJ013 ..... 594	9HBL12-05 ..... 583
9AE6-8616 ..... 558	9AT1105E ..... 532	9BA22P02 ..... 479	9BK73-22 ..... 587	9CJ023 ..... 594	9HBN01 ..... 580
9AE6-8618 ..... 559	9AT1106E ..... 521	9BA22P04 ..... 479	9BM120 ..... 582	<b>9CJ072.....N21</b>	<b>9T xxx</b>
9AE6-9015 ..... 559	9AT1108E ..... 523	9BA31 ..... 480	9BM2-01 ..... 286	<b>9CJ7416.....N21</b>	9TA242A ..... 505
9AE6-9210 ..... 559	9AT1112E ..... 527	9BA32 ..... 480	9BM2-02 ..... 286	<b>9CJ7432.....N21</b>	9TA242B ..... 505
9AE6-9315 ..... 559	9AT1202 ..... 526	9BA33 ..... 480	9BM2-02 ..... 583	9CJ033 ..... 595	9TA242D ..... 505
9AE6-9336 ..... 559	9AT1202 ..... 543	9BA41 ..... 572	9BM2110 ..... 286	9CJ1112 ..... 593	9TA251A ..... 507
9AE6-9345 ..... 559	9AT1206E ..... 542	9BB11 ..... 572	9BM2110 ..... 583	9CJ1120 ..... 593	9TA251B ..... 507
9AE6-9515 ..... 559	9AT1306E ..... 547	9BB12 ..... 573	9BM2111 ..... 286	9CJ1130 ..... 594	9TA251D ..... 507
9AE6-9618 ..... 559	9AT1406E ..... 531	9BB13 ..... 573	9BM2111 ..... 583	9CJ2112 ..... 594	9TA261A ..... 506
9AE6-10015 ..... 559	9AT1506E ..... 547	9BB31 ..... 573	9BM2210 ..... 286	9CJ2120 ..... 594	9TA261B ..... 506
9AE6-10615 ..... 559	9AT1606E ..... 525	9BB42 ..... 571	9BM2210 ..... 583	9CJ2212 ..... 594	9TA261D ..... 506
9AE6-10815 ..... 559	9AT1706E ..... 525	9BC11 ..... 574	9BM2210A ..... 286	9CJ3104 ..... 594	9TA265 ..... 506
9AE6-10818 ..... 563	9AT1-A01 ..... 540	9BC121 ..... 574	9BM2210A ..... 583	9CJ3105 ..... 594	9TA266 ..... 506
9AE71-90 ..... 563	9AT1-A02 ..... 526	9BC124 ..... 574	9BM2211 ..... 286	9CJ3106 ..... 595	9TA267W ..... 502
9AE71-115 ..... 563	9AT1-A03 ..... 536	9BC21 ..... 574	9BM2211 ..... 583	9CJ61-40 ..... 595	9TA268A ..... 506
9AE71-140 ..... 563	9AT1-A04 ..... 541	9BC22 ..... 574	9BM2211A ..... 286	9CK-101 ..... 601	9TA268B ..... 506
9AE72 ..... 563	9AT1-E01 ..... 530	9BC23 ..... 575	9BM2211A ..... 583	9CM01 ..... 593	9TA268D ..... 506
9AE8006 ..... 561	9AT1-E01 ..... 534	9BC24A ..... 575	9BM811 ..... 582	9CM11 ..... 593	<b>9TA271.....N19</b>
9AE8-24 ..... 561	9AT2004E ..... 538	9BC251 ..... 576	9BP11 ..... 573	9CM209 ..... 593	9TA28 ..... 511
9AE8-27 ..... 561	9AT2004E ..... 543	9BC251A01 ..... 576	9BP21 ..... 573	9CM212 ..... 593	9TA281 ..... 511
9AE8-30 ..... 561	9AT2005E ..... 538	9BC26 ..... 576	9BQ01 ..... 590	9CW01 ..... 596	9TA33A ..... 508
9AE8-32 ..... 561	9AT2005E ..... 543	9BC32 ..... 576	9BQ11 ..... 590	9CW11 ..... 596	9TA33B ..... 508
9AE8-36 ..... 561	9AT2006E ..... 519	9BC32P021 ..... 577	9BT250 ..... 590	9CW12 ..... 596	9TA33D ..... 508
9AE8-38 ..... 563	9AT2006E ..... 529	<b>9BC41A14.....N14</b>	9BT2100 ..... 590	9CW13 ..... 596	9TA34A ..... 508
9AF11-15 ..... 563	9AT2006E ..... 533	<b>9BC41A22.....N14</b>	9BU111 ..... 588	9CW21 ..... 596	9TA34B ..... 508
9AF11-30 ..... 563	9AT2008E ..... 535	<b>9BC42A11.....N14</b>	9BU111T ..... 588	9CW22 ..... 596	9TA34D ..... 508
9AF11-60 ..... 563	9AT2008E ..... 537	<b>9BC42A15.....N14</b>	9BU112 ..... 588	9CZ101 ..... 601	9TA34P01 ..... 508
9AF113 ..... 564	9AT2008E ..... 544	<b>9BC42A20.....N14</b>	9BU112T ..... 588	9CZ201-S ..... 489	9TA42A ..... 513
9AG11 ..... 564	9AT2010E ..... 540	<b>9BC4A05MP.....N14</b>	9BU1432T ..... 588	<b>9D xxx</b>	9TA42B ..... 513
9AG13 ..... 565	9AT2011E ..... 532	9BC5001MR ..... 577	9BU241 ..... 589	9DA022 ..... 597	9TA42D ..... 513
9AH12 ..... 565	9AT2012E ..... 539	9BC5107M ..... 577	9BU241T ..... 589	9DA103 ..... 597	9TA44W ..... 503
9AH025 ..... 565	9AT2106E ..... 522	9BC5108M ..... 577	9BU242 ..... 589	9DA104 ..... 597	9TA45A ..... 514
9AH0311 ..... 566	9AT2106E ..... 534	9BC5109M ..... 577	9BU242T ..... 589	9DB201 ..... 597	9TA46A ..... 514
9AH0321 ..... 566	9AT2106E ..... 544				



# Index .....

9TA48A.....N20	9TK236B ..... 603	A535145M ..... 262	B535125M ..... 263	ST114519MR .... 620	ZS141-2L ..... 626
9TA48B.....N20	9TK306 ..... 603	A535148S ..... 262	B535130M ..... 263	ST20109MR .... 621	ZS141-3L ..... 626
9TA48C.....N20	9TK312 ..... 603	A535150M ..... 262	B535132S ..... 263	ST20203MR .... 621	ZS142B-S ..... 626
9TA52A ..... 510	9TK316 ..... 603	A535155M ..... 262	B535135M ..... 263	ST20203SR .... 621	ZS142B-M ..... 626
9TA52B ..... 510	9TK320 ..... 603	A535156S ..... 262	B535136S ..... 263	ST20208MY .... 620	ZS142B-L ..... 626
9TA52D ..... 510	9TP11 ..... 610	A535160M ..... 262	B535140M ..... 263	ST20209MR .... 620	ZS142B-XL ..... 626
9TA53 ..... 510	9TP12 ..... 610	A535160S ..... 262	B535140S ..... 263	ST20213MR .... 620	ZS142B-2L ..... 626
9TA54 ..... 509	9TP22 ..... 610	A535164S ..... 262	B535144S ..... 263	ST20219MR .... 620	ZS142B-3L ..... 626
9TA56 ..... 509	9TQ02 ..... 607	A535165M ..... 262	B535145M ..... 263	ST20219MY .... 620	ZS142G-S ..... 626
9TA71W ..... 504	9TQ11 ..... 607	A535168S ..... 262	B535148S ..... 263	ST20419PR .... 621	ZS142G-M ..... 626
9TA92WA ..... 504	9TQ12 ..... 607	A535170M ..... 262	B535150M ..... 263	ST2346MR ..... 615	ZS142G-L ..... 626
9TA92WB ..... 504	9TQ21 ..... 606	A535172S ..... 262	B535152S ..... 263	ST4028MR ..... 615	ZS142G-XL ..... 626
9TA92WD ..... 504	9TQ31 ..... 602	A535175M ..... 262	B535156S ..... 263	ST4028SR ..... 615	ZS142G-2L ..... 626
9TB225 ..... 602	9TT11-18 ..... 611	A535180M ..... 262	B535160M ..... 263	ST4528MR ..... 615	ZS142G-3L ..... 626
9TB500 ..... 602	9TT21-03 ..... 611	A535180S ..... 262	B535160S ..... 263	ST4528SR ..... 615	ZS142W-S ..... 626
9TBA600 ..... 602	9TT31-20 ..... 611	A535184S ..... 262	B535164S ..... 263	ST87432-5B ..... 621	ZS142W-M ..... 626
9TBA650 ..... 602	9TU11-20 ..... 613	A535185M ..... 262	B535165M ..... 263	ST87434-7B ..... 621	ZS142W-L ..... 626
9TC101 ..... 602	9TU21-20 ..... 613	A535188S ..... 262	B535168S ..... 263	<b>SY xxx</b>	ZS142W-XL ..... 626
9TD014MR ..... 492	9TV13-100 ..... 612	A535190M ..... 262	B535170M ..... 263	SY-10A ..... 288	ZS142W-2L ..... 626
<b>9TD033MR.....N20</b>	9TV21-09 ..... 612	A535192S ..... 262	B535172S ..... 263	SY-20A ..... 288	ZS142W-3L ..... 626
9TD034MR ..... 491	9TW21-20 ..... 613	A535196S ..... 262	B535175M ..... 263	SY-210H ..... 288	ZS146-S ..... 626
9TD035MR ..... 491	9TZ11-04 ..... 489	A535200M ..... 262	B535176S ..... 263	SY-210M ..... 288	ZS146-M ..... 626
9TD036MR ..... 491	9TZ11-05 ..... 489	A535200S ..... 262	B535180M ..... 263	SY-211F ..... 288	ZS146-L ..... 626
9TD062 ..... 491	9TZ11-06 ..... 489	A535204S ..... 262	B535180S ..... 263	SY-211H ..... 288	ZS146-XL ..... 626
9TD064 ..... 491	9TZ11-08 ..... 489	A535208S ..... 262	B535184S ..... 263	SY-211M ..... 288	ZS146-2L ..... 626
9TD164MR ..... 492	9TZ11-10 ..... 489	A535210M ..... 262	B535185M ..... 263	SY-220H ..... 288	ZS155 ..... 625
9TD165MR ..... 492	9TZ11-12 ..... 489	A535212S ..... 262	B535188S ..... 263	SY-221H ..... 288	ZS155A ..... 625
9TD401-06M ..... 492	<b>9X xxx</b>	A535215M ..... 262	B535190M ..... 263	SY-221M ..... 288	ZS306 ..... 624
9TD401-08M ..... 492	9XAH1 ..... 564	A535216S ..... 262	B535192S ..... 263	SY-221F ..... 288	ZS402 ..... 624
9TD401-10M ..... 492	<b>A5 xxx</b>	A535220S ..... 262	B535196S ..... 263	SY-230M ..... 288	ZS405 ..... 624
9TD401-12M ..... 492	A535041M ..... 262	A535224S ..... 262	B535200M ..... 263	SY-231M ..... 288	ZS408 ..... 624
9TD403-10M ..... 491	A535046M ..... 262	A535225M ..... 262	B535200S ..... 263	SY-231F ..... 288	ZS409 ..... 624
9TD403-12M ..... 491	A535050M ..... 262	A535235M ..... 262	B535204S ..... 263	SY-260M ..... 288	ZS410 ..... 624
9TD403-13M ..... 491	A535051M ..... 262	A535240S ..... 262	B535208S ..... 263	SY-310H ..... 288	ZS411 ..... 624
9TD403-14M ..... 491	A535055M ..... 262	A535244S ..... 262	B535210M ..... 263	SY-311H ..... 288	<b>ZS417 .....N22</b>
9TD403-17M ..... 491	A535055M ..... 262	A535252S ..... 262	B535212S ..... 263	SY-320H ..... 288	<b>ZS417 ..... 625</b>
9TD403-19M ..... 491	A535057M ..... 262	A535256S ..... 262	B535215M ..... 263	SY-321H ..... 288	<b>ZS418K .....N22</b>
9TD403-21M ..... 491	A535060M ..... 262	<b>AD xxx</b>	B535216S ..... 263	SY-410H ..... 288	<b>ZS418K ..... 624</b>
9TD403-22M ..... 491	A535065M ..... 262	ADCV-01 ..... 627	B535220S ..... 263	SY-411H ..... 288	ZS511 ..... 625
9TD403-23M ..... 491	A535070M ..... 262	ADCV-02 ..... 627	B535224S ..... 263	SY-421M ..... 288	ZS514 ..... 625
9TD403-24M ..... 491	A535075M ..... 262	ADFLAG ..... 627	B535225M ..... 263	<b>TS xxx</b>	ZS517 ..... 624
9TD403-27M ..... 491	A535076M ..... 262	ADFLAG1 ..... 627	B535228S ..... 263	TS00108 ..... 622	ZS522 ..... 625
9TD404-0619M ..... 492	A535076S ..... 262	ADFLAG2 ..... 627	B535232S ..... 263	TS00208 ..... 623	ZS524 ..... 625
9TD601 ..... 491	A535077M ..... 262	ADSTK21KT ..... 627	B535235M ..... 263	<b>WS xxx</b>	ZS533 ..... 625
9TD602 ..... 491	A535078S ..... 262	ADSTK22KT ..... 627	B535236S ..... 263	WSB012802-5 ... 585	ZS540 ..... 625
9TD603 ..... 491	A535080M ..... 262	ADSTK23KT ..... 627	B535240S ..... 263	WSB013006-5 ... 585	ZS572 ..... 625
9TD604 ..... 491	A535080S ..... 262	ADSTK31KT ..... 627	B535244S ..... 263	WSB022701-5 ... 585	<b>ZS606 .....N22</b>
9TE11 ..... 486	A535082S ..... 262	ADSTK-C1 ..... 627	B535248S ..... 263	WSN043601-5 ... 585	<b>ZS606 ..... 625</b>
9TE41 ..... 244	A535084S ..... 262	ADSTK-H2 ..... 627	B535252S ..... 263	WSN043602-5 ... 585	<b>ZV xxx</b>
9TE41 ..... 609	A535085M ..... 262	ADV-02 ..... 627	B535256S ..... 263	WSN143602-5 ... 585	ZV011 ..... 314
9TG11 ..... 609	A535086M ..... 262	<b>ADV-031 .....N23</b>	B535260S ..... 263	WSN143601-5 ... 585	ZV011A ..... 314
9TG12 ..... 609	A535088S ..... 262	<b>ADV-031 ..... 629</b>	B535264S ..... 263	WSN143602-5 ... 585	ZV011B ..... 314
9TG21 ..... 609	A535090M ..... 262	<b>ADV-032 .....N23</b>	B535268S ..... 263	<b>ZS xxx</b>	ZV012 ..... 314
9TH21-XL ..... 486	A535090S ..... 262	<b>ADV-032 ..... 629</b>	B535272S ..... 263	ZS104 ..... 624	ZV012A ..... 314
9TH31-XL ..... 486	A535094S ..... 262	<b>ADV-033 .....N23</b>	B535276S ..... 263	ZS107 ..... 624	ZV012B ..... 314
9TH31-2L ..... 486	A535095M ..... 262	<b>ADV-033 ..... 629</b>	B535280S ..... 263	ZS108 ..... 624	ZV012D ..... 314
9TH41-L ..... 486	A535096S ..... 262	<b>ADV-034 .....N23</b>	B535284S ..... 263	ZS109-L ..... 626	ZV013 ..... 314
9TH41-XL ..... 486	A535100M ..... 262	<b>ADV-034 ..... 629</b>	<b>SC xxx</b>	ZS109-XL ..... 626	ZV013A ..... 314
9TH42-XL ..... 486	A535100S ..... 262	<b>ADV-035 .....N23</b>	SC7083MR ..... 618	ZS109-2L ..... 626	ZV013B ..... 314
9TH42-XXL ..... 486	A535105M ..... 262	<b>ADV-035 ..... 629</b>	SC7096MR ..... 616	ZS109-3L ..... 626	ZV013D ..... 314
9TH43-XL ..... 486	A535108S ..... 262	<b>ADV-036 .....N23</b>	SC7010MR ..... 617	ZS110 ..... 626	
9TH43-XXL ..... 486	A535110M ..... 262	<b>ADV-036 ..... 629</b>	SC7396MR ..... 616	ZS111 ..... 627	
9TH44-XL ..... 487	A535112S ..... 262	<b>ADV-037 .....N23</b>	SC7510MR ..... 618	ZS112-L ..... 626	
9TH44-XXL ..... 487	A535115M ..... 262	<b>ADV-037 ..... 629</b>	SC7583MR ..... 616	ZS112-XL ..... 626	
9TH45-XL ..... 487	A535120M ..... 262	<b>ADV-038 .....N23</b>	SC7596MR ..... 617	ZS112-2L ..... 626	
9TH45-XXL ..... 487	A535120S ..... 262	<b>ADV-038 ..... 629</b>	SC9043MR ..... 619	ZS112-3L ..... 626	
9TK014 ..... 603	A535124S ..... 262	<b>ADV-039 .....N23</b>	SC9543MR ..... 619	ZS115 ..... 627	
9TK024 ..... 603	A535125M ..... 262	<b>ADV-039 ..... 629</b>	<b>ST xxx</b>	ZS115-1 ..... 627	
9TK034 ..... 603	A535126S ..... 262	<b>ADV-04 .....N23</b>	ST112012MR .... 620	ZS116 ..... 625	
9TK108 ..... 603	A535130M ..... 262	<b>ADV-04 ..... 629</b>	ST112014MR .... 620	ZS119 ..... 625	
9TK112 ..... 603	A535132S ..... 262	<b>B5 xxx</b>	ST112017MR .... 620	<b>ZS120-S .....N22</b>	
9TK118 ..... 603	A535135M ..... 262	B535105M ..... 263	ST112019MR .... 620	<b>ZS120-S ..... 625</b>	
9TK124 ..... 603	A535136S ..... 262	B535110M ..... 263	ST114512MR .... 620	ZS141-S ..... 626	
9TK225A ..... 603	A535138S ..... 262	B535115M ..... 263	ST114514MR .... 620	ZS141-M ..... 626	
9TK225B ..... 603	A535140M ..... 262	B535120M ..... 263	ST114517MR .... 620	ZS141-L ..... 626	
9TK236A ..... 603	A535144S ..... 262			ZS141-XL ..... 626	



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