SCREW REMOVAL Screw Removal Pliers, Rapid Screw Extractor, etc.	2	SCREW REMOVAL
SCISSORS Combination Scissors, Cable Shears, etc.	10	SCISSORS
NIPPERS Micro Nippers, Parallel Nippers, Diagonal Nippers, Plastic Nippers, etc.	15	NIPPERS
PLIERS Miniature Pliers, Long Nose Pliers, Combination Pliers, E-Ring Pliers, etc.	20	PLIERS
CRIMPING AND STRIPPING Handy Crimp Tool, Universal Crimping Pliers, Pin Extractor, Wire Strippers, etc.	24	CRIMPING STRIPPING
TWEEZERS Tweezers, Titanium Tweezers, ESD Plastic-Tipped Tweezers, etc.	32	TWEEZERS
SCREWDRIVERS Master Grip Drivers, Pro-Use Drivers, Stubby Drivers, Offset Ratchet Drivers, etc.	37	SCREW DRIVERS
SPECIAL DRIVERS Mobile Phone Drivers, Nut Drivers, Hex Drivers, Ceramic Alignment Screwdrivers, etc.	42	SPECIAL DRIVERS
WRENCHES Smart Monkey Wrench, Ball Point Hex Wrench Set, Socket Wrench Set, etc.	50	WRENCHES
CUTTING AND PROCESSING Taper Reamer, Vise, Jeweller's Saw, Jet Black Files, etc.	55	CUTTING PROCESSING
SETS AND CASES Maintenance Kits, Tool Kits, Electronics Kits, Aluminium Cases, Parts Boxes, etc.	59	SETS CASES
SOLDERING EQUIPMENT Soldering Irons, Kotelyzers, Desoldering Tool, Solder Sucker, Digital Multimeter, Loupes, etc.	69	SOLDERING EQUIPMENT
ESD PRODUCTS AND CHEMICALS Anti-Static Service Kit, Dust-Free Gloves, Conductive Colored Mat, Rust Remover, etc.	80	ESD CHEMICALS

Anti-Static Service Kit, Dust-Free Gloves, Conductive Colored Mat, Rust Remover, etc.



Screw Removal

















PZ-32 SCREW REMOVAL PLIERS JS Vertical serrations bite and grip a screw head without slippage. Also good for Truss head screw. *Truss: Lower-profile dome head Serrated side teeth lined consecutively, inter-meshed with each other Black oxide finish to increase rust-resistance! Owing to T-shaped forging handles, the handle sleeve will not twist or slip off during heavy duty use. PZM-30 Stress MASK FOR PZ-32



Material

Handles:TPR

Body:Carbon Steel HRC60±2

Inter-m	neshed,
never	let go.

Strap hole goes through the steel handle.







PZ-64.65

Size

160mm

Item No.

PZ-32

- Vertically serrated jaws bite a screw head while locking it securely.
- It helps to optimize your hand strength for twisting off stubborn screws.
- Also good for Truss head screw. *Truss: Lower-profile dome head
- Quick release mechanism, just open the handles to unlock the gripping jaws

Hardness Cutting Capacity

φ1.2mm

(copper wire)

Wgt.

125g

Safety Hole

φ3.5mm

Rubber handles provide you with a comfortable grip.







Item No.	Max.Jaws	Cutting Capacity	0.A. Length	Hardness (Jaws)	Wgt.	Material
PZ-64	38mm	Steel wire ϕ 1.6mm	150mm		205g	Body:Cr-Mo
PZ-65	48mm	Steel wire \$\$2.3mm	190mm	HRC57±3	400g	Handles:TPR

	11-12-111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
A DATE AND		

Screw head size Item No. Top Jaws PZ-64 ¢3∼¢9.5mm Ŧ PZ-65 ÷. $\phi 7 \sim \phi 12$ mm

SCREW REMOVAL LOCKING PLIERS



SCREW EMERGENCY TOOL KIT

SCREW REMOVAL

KS-34

The all-in-one solution for your screw troubles!

- Screw Eater + Rapid Screw Extractor with 3 bits
- Lightweight and stylish bundle case
- *Turn to page 08 for more information on the Rapid Screw Extractor





Elastic band

Compact and lightweight!

Contents					
Item No.	Description				
PZ-22	Screw Eater				
DBZ-50G	Handle Grip for DBZ	(Green)			
DBZ-51	⊕#2 (Press & Twist type bit)				
DBZ-52	⊕#2 (Strike & Turn type bit)				
DBZ-57	⊕#1 (Press & Twist type bit)				
	Bundle case				
Item No.	Case Size (When unfold)	Wgt.			
KS-34	380×220mm	394g			

PDS-01

Screw Removal Pliers GT with Mask + Rapid Screw Extractor with 5 bits in a compact heavy duty case *Turn to page 08 for more information on the Rapid Screw Extractor



Item No. Case Size Wgt. PDS-01 300×63×200mm 896g

SCREW REMOVAL TOOL KIT

Contents					
Item No.	Description				
PZ-58	Screw Removal Pliers GT				
PZM-58	Pliers Mask for PZ-58				
DBZ-50B	Handle Grip For DBZ (Black)				
DBZ-51	\oplus #2 (Press & Twist type bit)				
DBZ-52	⊕#2 (Strike & Turn type bit)				
DBZ-53	Hex socket screw(.2.5-3.0mm)				
DBZ-54	Hex socket screw(.4.0mm)				
DBZ-56	Hex socket screw(.: 5.0mm)				
	Bit holder				

PGT-03 GT PACK(PAULOWNIA BOX)

The perfect gift for tool lovers!

• The Screw Removal Pliers GT and the Combination Scissors GT in a beautiful box made of paulownia wood.



Contents	6			
Item No.	Description			
PZ-58 Screw Removal Pliers GT				
PZM-58	Pliers Mask for PZ-58			
PH-55 Combination Scissors GT		ors GT		
Item No.	Case Size	Wgt		
PGT-03	252×132×32mm 372			



08



Item No.	Material	Width	Wgt.
DBZ-50B	Grip: ABS, Nylon	100mm	83g



*Do not hit the grip with a hammer

5)Give a jerk counterclockwise while pressing firmly downward.

DBZ-51~65

New REPLACEMENT AND OPTIONAL BITS FOR DBZ-60G

	Press & T	wist type		ę	Strike & Tur	n type	SCREW
F	■ DBZ-51	062-51 (880)	3100.00099007 1422		DBZ-52		
Sligh dama Philips s	ged	RAZOOKA DRZ-57 GIEH	SULABALI +>	Heavily damaged Philips screws	€)2	DRI-52 General International Viz	
	DBZ-62	2-62 кулком	Marcana Control Contro		DBZ-53		
.C	DBZ-63	No. 10034	and the second	0	©25-30 DBZ-54	BAZOOKA DR2-53 DEGURIULISHADI YA	CRIMPING
Sligh dama Hex sc	ged	C 849 8034	APT COLOR	Heavily damaged Hex screws	eu ■DBZ-56	BAZDOKA BBZ-54 MAMULALARYAN +++	
	Wigen of States	5. 69 4008	Relation				SCREW
tem No. DBZ-51	Screw type/size ⊕#2	Bit type Press & Twist type	Length	Wgt. PRI			
)BZ-52	Hex socket screw	Strike & Turn type Strike & Turn type					
BZ-54	(●:2.5-3.0mm) Hex socket screw (●:4.0mm)	Strike & Turn type		26g			
BZ-56	Hex socket screw (•:5.0mm)	Strike & Turn type					
BZ-57	⊕#1	Press & Twist type	105mm				
)BZ-62	Hex socket screw (●:2.0mm)	Press & Twist type		25g		Sect M	
)BZ-63	Hex socket screw	Press & Twist type					
)BZ-64	Hex socket screw (•:4.0mm)	Press & Twist type		27g			
)BZ-65	Hex socket screw (●:5.0mm)	Press & Twist type				DBZ-62~65 can be used	
						with your power driver	La v
	Countersunk	Pan head		Dome he	ad	Hex	4
			9.6		0.0		

Screw ty

Countersunk						
MS	6.9 3.3					
M4						
M3 Suitable fo	r DBZ-51/52					
))						
M2~3 Suitab l e	for DBZ-57					





•

Counter sunk

Button head

(Unit in mm)

Cap bo**l**t





PH-57•PH-57R•PH-57G•PH-57Y

ENGINEER

U-shaped blade

Ideal for power supply cord, coaxiale cable, rope, etc.

Micro-serrations

Hold the object without slippage such as Aramid fiber, plastic plate,

etc.

Coaxial cable (Conductor ¢1.0mm)

PP Plate

1.2mm thick

TPR cushioned handles

Comfort gripping

Rope *\$*10mm



Kevlar Aramid fiber

 $\%\,\text{Do}$ not apply Copper or Steel wire to the Micro-serration to keep the life of main blades. *Heat-treated or specially-hardened wire is not applicable for cutting. It may damage the blades.

Leather belt

5mm thick

Cutting capacity (Reference only)



Item No.	Size	Hardness	Material	Wgt.	
PH-57			Blades:Steinless Steel		
PH-57R				100	
PH-57G	210mm HRC56±2		HRC56±2	Handles: ABS & TPR	136g
PH-57Y			Cap:ABS		

Finger pinch guard



The overlapping guard prevents your fingers from being pinched **PAT**.

Color variations ENGINEER PH-57R







Item No.	Size	Hardness	Material	Wgt.
PH-56R			Blades: Stainless Steel	
PH-56G	175mm	HRC56+2	Handles: ABS	75g
PH-56Y			Handles: ABS	

Second Scissors 2-in-1 Unique cutting blade Noto

- Trimming various objects which you could not cut with ordinary scissors such as nylon fiber, cabtire cord, etc.
- Fine and flush cut in finish even compared with cut with cutting pliers
- Ideal for professional electricians as well as for hobby use.



	TROHS COIVI	BINA HON S	0133043
Notched Blade		U-type Blade	
prev	ched blades yent the object in slipping		J-type notches hold cord firmly
Copper braided flat wire	uminum sheet	Copper wire	Insulated cord
PH-50 Notched Blade C	utting Capacity	PH-50 U-type Blade	Cutting Capacity
Nylon/Kevlar fiber	Various	Copper wire	φ1.5mm max.
Copper braided wire	types	Cabtire cord	Various
Aluminum/Copper sheet	0.5mm max.	Cotton braided core	d types
Plastic plate / PET	1.0mm max.	Cotton insulated cor	
		**Do not use U-type blade fo Copper sheet, which may	

Item No.	Size	Hardness	Material	Wgt.
PH-50	170mm	HRC54±2	Handles:PE Blades:Stainless Steel	58g

COMBINATION SCISSORS GT

PH-55

Micro-serration

NEER PH-55 MADE IN JA

Holds the object

without slipping

Flat Blade

of paper

PH-50



Handy cutting blades for copper or steel wire 160 (mm) Convenient to open carton boxes with ease **Cutting Capacity (Reference)** Micro-serration Wire Cutter 8 Rope Cabtire cord Cotton insulated Copper wire 8 φ10mm φ1.6mm φ9mm *d*8mm Leather belt CD.Card Carpet Wire Item No. Size Hardness Material Wgt. Handles:PBT PH-55 160mm HRC56±2 120g Blades:Stainless Steel 4mm thick 1.2mm thick 5mm thick φ1.2mm

*Do not apply Copper or Steel wire to the Micro-serration to keep the life of main blades. *Heat-treated or specially-hardened wire is not applicable for cutting. It may damage the blades.

SCISSORS

PH-33-34 Ideal for delicate cutting for PCB related work. PH-33 (straight)/PH-34 (curved) Length: 145mm Material: Stainless Steel Serrated shears for anti-slipping

PK-50•51

- Makes a fine cut surface owing to the curved blades
- High leverage for easy operation





PK-51



Foremost Blades Wire cutter suitable for copper wires

Main Blade (Rearmost) Curved blades suitable for insulated cables, make a fine cut surface. Flat cables, Coaxial cables, Power supply cords, LAN cables, etc. are also applicable.

Cable Shears



The curved blades can hold a cable securely and the shears mechanism enables you to make a cut surface finely.





The pressure given from flat blades crushes a cable or it may slip sideways.

Itom No			C	utting Capaci [,]	ty	10/
Item No.	Size	Hardness Vinyl insulated Cable		Flat Cable	Wgt.	
PK-50	164mm	HRC58±4	9mm outside diameter	22 m ¹	2.0mm×2core	150g
PK-51	212mm	HRC58±4	11mm outside diameter	38 mÅ	2.0mm×3core	250g

Comparison of Cut Surface











Flat Cable



Coaxial Cable





Nippers



NK-15

NK-16

NK-25

NK-26

NK-36

NN-45

NN-46

NN-56

Diagonal Nippers

Diagonal Nippers

Diagonal Nippers

Diagonal Nippers

Diagonal Nippers

Slant Edge Nippers

Slant Edge Nippers

Slant Edge Nippers

125

150

125

150

150

125

150

150

2.6

З

2.6

З

3.2

2

26

2.6

2

2

2

2

2

2

2



1.5

1.9

15

1.9

2

1.2

1.4

1.4

18

18

18

18

18

19

19

19

Stripping hole Ø1.2 & 1.6mm

Stripping hole Ø1.2 & 1.6mm

Vinvl isulated cable Ø1.6mm

Stripping hole Ø1.2 & 1.6mm

Stripping hole Ø1.2 & 1.6mm



- Cutting capacity : Copper wire ϕ 0.6mm Light weight of 45g only



SHEARS & GRIP IN PARALLEL



ENGINEER NZ-13





NZ-12 : Normal Blade Enables you to make flush cut of a lead easily so as to prevent resist stripping or solder crack NZ-12 on the circuit board

99



NZ-13 : Reverse Blade Enables you to cut IC lead in front of user with the best view while holding nippers vertically against circuit board

17

NIPPERS



Precision cutter with wire stripper

- With opening angle adjuster & coiled spring
- Stripping holes: ϕ 1.2 & 1.6mm
- Material: S55C
- Hardness: HRC 58±4
- Capacity (copper wire) : NK-25 ϕ 2.6mm NK-26 Ø3mm



HEAVY DUTY DIAGONAL NIPPERS

Spring

ശ്ര



NK-36

Heavy-duty durable cutter

- Material: S58C
- Hardness: HRC 60±4
- Capacity: copper wire ϕ 3.2mm

155

21

; | Zei

5



RoHS

NN-45•46 SLANT EDGE NIPPERS

Professional type for sharp & easy use

- Stripping holes: ϕ 1.2 & 1.6mm
- Material: S58C
- Hardness: HRC 58±4

NN-56 **SLANT EDGE NIPPERS** (IS) Sharp cutting & easy handling • Material : S58C

A STALLA

Hardness : HRC 58±4
Capacity : copper wire φ2.6mm

ശ



(mm)

NP-05 115 123 52 11 7 12 11	Item No.	Size	Α	В	С	D	Е	F
	NP-05	115	123	52	11	7	12	11



							(mm)
Item No.	Size	Α	В	С	D	Е	Capacity
NN-45	125	133	51	14	10	23	copper wire \$\phi 2mm
NN-46	150	159	51	16	11	26	copper wire \$\$2.6m



Tapered and slender head

for work in restricted area

With side stopper & coiled spring

Ideal for cutting and trimming various gates of

• ESD-Safe handles made of Elastomer (TPR)

• Also capable of cutting thin copper wire (ϕ 0.8mm max.)

2m

cię

injection molding

Material: S58C Hardness: HRC 59±3

NP-05



Spr

NP-03.04

4000000

Spring

- Ideal for cutting plastic mold gates & burns
- With opening angle adjuster & coiled spring
- Material: S58C
- Hardness: HRC 58±4



	I RELATED INTERN
NP-04	



						(mm)
Item No.	Size	А	В	С	D	E
NP-03	125	130	54	14	8	17
NP-04	150	152	55	16	10	20
			_	_	_	



NP-05

Ja:	100	
6	7	





⊐‡ F

PS-04

125

132 50 11 8 29 11

21



PD-06 steel wire ϕ 1.6 PD-07 steel wire ϕ 1.8 PD-08 14 steel wire $\phi 2.0$



23

PC & PW SERIES

Features • Slip Joint Pliers and Groove Joint Pliers for maintenance and general purpose



Crimping and Stripping





1. Measure the width of conductor barrel with a caliper while both barrel wings are in parallel.







Wings opened

Measure the width

2. Select the die width which is close to the width of barrel wings measured.





For example: 1.5mm measured → Select 1.6mm dies.

Turn to page 26 for Crimping Pliers **→**

25

CONNECTOR CRIMPING PLIERS

- Features Our line-up offers you very precise and perfect crimp finish of open-barrel contacts.
 - ENGINEER original joint-screw prevents the joint from being loose and realizes easy maintenance
 Pliers made of S55C high carbon steel for durability
 - Pliers made of S55C high carbon steel for durability
 With locking latch and coiled spring, Light weight for fatigue-free work



PA-09 Polic **MICRO CONNECTOR PLIERS** Crimp AWG #32 to #20 wires in micro connectors of different makers!! ● 4 different crimping dies, 1.0, 1.4, 1.6 & 1.9mm(W) Makes it possible to crimp 1.25 to 2.5mm pitch connector pin (Narrow pitch) D-sub connector contacts also adaptable Typical terminals applicable • Weight: 145 g AWG32 wire in S. microscopic die Size 1.0 S Specifications Die Width (mm) Die Height Die Thickness (mm) (mm) Wires applicable (Reference only) Item No. ϕ mm mm AWG (conductor) 1.0 0.50 0.20~0.32 0.031~0.08 #32~#28 1.7 1.4 0.55 0.32~0.51 0.08~0.21 #28~#24 818 \$ PA-09 1.6 0.8 #24~#22 0.51~0.64 0.21~0.33 Width 2.0 🕽 🕻 Height 12 Dies 1.9 0.9 0.51~0.81 0.21~0.52 #24~#20

PA-20

Crimp AWG #28 to #18 wires in micro connectors of different makers!!

- 4 different crimping dies, 1.6, 1.9, 2.0 & 2.3mm(W)
- Makes it possible to crimp 2.5 to 5mm pitch connector pin (Universal type)
- Weight: 145 g





111361163(331)	(in Series(331)	111361163(331)
5	In State	Amont.
EL Series(JST)	3191 Series(Molex)	MATE-N-LOK(Tyco)
As A as	Constraint of the second se	And me

Specifications

Item No.	Die Width	Die Height	Die Thickness	Wires applicable (Reference only)			
ntennito.	(mm)	(mm)	(mm)	ϕ mm	mm	AWG (conductor)	
	1.6	0.7	2.5	0.32~0.64	0.08~0.33	#28~#22	
PA-20	1.9	0.8		0.51~0.81	0.21~0.52	#24~#20	
FA-20	2.0	0.9		0.64~1.02	0.33~0.82	#22~#18	
	2.3	1.0		0.81~1.02	0.52~0.82	#20~#18	

PA-21

- Precise crimpers for wide range of open-barrel contacts including long barrel wing type
- 4 different crimping dies, 1.6, 1.9, 2.2 & 2.5mm(W)
- Crimping AWG #26~18 contacts of different connector makers



	oplicoblo	also adaptable.							
	Typical terminals applicable								
XH Series(JST)	NH Series(JST)	VH Series(JST)							
Frank	Parat	the state							
PA Series(JST)	Mini Fit(Molex)	Universal MATE-N-LOK(Tyco)							
Tradients	in the second	A second second							

Specifications

opecifications							
Item No.	Die Width		Die Height Die Thickness Wires applicable (Reference			rence only)	
item No.	(mm)	(mm)	(mm)	ϕ mm	mm	AWG (conductor)	
	1.6	0.8		0.41~0.51	0.13~0.21	#26~#24	
PA-21 1.9 2.2 2.5	1.9	1.0		0.41~0.64	0.13~0.33	#26~#22	
	1.2	1.0	0.51~0.81	0.21~0.52	#24~#20		
	2.5	1.4		0.64~1.02	0.33~0.82	#22~#18	



Long wing type is

PRECISE CRIMPING SERIES - Tool Frame and Die Set



PAD-12

PAD-13

PAD-10

PAD-10

+

+

PAD-12S

PAD-13S

Die width

Die thickness

0.7

1.0

1.0

1.3 1.6

1.5

1.9 2.2

2.0

2.5

2.5

2.8

27

CRIMPING STRIPPING

ESD CHEMICALS

3.7

3.5

PAD-13S

3.1 3.4

3.0

PAD-02 MANDY CRIMP TOOL COMPLETE SET **PA-11** • Comes with 3 different interchangeable Die Sets Super-Light weight wire stripper • Tool Frame & Parts Boxes in a stylish carrying case Accurate wire stripping with single squeeze action. Fatigue-free owing to spring action Made of durable plastic ENGINEER@ With strip gauge Length of wire is adjustable using strip gauge. Set Content Description Item No. C D (mm) PAD-11 Handy Crimp Tool PAD-12S Interchangeable Die Set (M Size) PAD-13S Interchangeable Die Set (L Size) 2.5mm Hex. key wrench Size applicable (R) Connectable parts box (6 pcs.) Hole diameter mm 0.5 1.6 2.0 1.2 Ext. size:20×29×16mm Stranded wire(AWG) 26 18 16 14 Carrying case (HDPE) Solid wire AWG 24 14 16 12 (mm) (mm) Item No. A B Wgt.(g) Item No. Case Size Wgt.(g) С D 300×200×63mm PAD-02 PA-11 | 165 | 128 | 20 30 910g approx. В 140 **PA-30** PA-91~93

- One-Squeeze operation for easy stripping of applicable flat cables, 12mm width max.
- With stopper for adjustment of stripping length, 2~20mm.
- Applicable sectional area: AWG20~10



Popular crimping terminals and connectors in compact plastic case.

PA-91 Set







PA-92 S	Set				
Tern	ninal	Sectional area (៣៣)	Contents		
		1.25	3		
	RV 💽	1.25	4		
Insulated		2	5	10	
terminal		1.25	3	10	
	YV DI	1.25	4		
		2	5		





Ejector Pin	Return Spring	(mm)
Sleeve		_
21		⊐Y″
	62	

			(mm)
Item No.	Inner Diam of Sleeve	Outer Diam of S l eeve	Material
PAS-30	1.9	2.5	
PAS-31	2.1	2.7	SUS303
PAS-32	2.4	2.9	Stainless
PAS-33	3.1	3.6	Steel
PAS-34	2.7	3.2	

Reference for extracting typical connectors

Brand/Connector	Pin Housing	Socket Housing
"TE" Mini Universal Mate-N-Lok	PAS-30	SS-30
"TE" Universal Mate-N-Lok	PAS-34	PAS-34
"TE" Commercial Mate-N-Lok	PAS-32	PAS-34
"JST" ML & EL Series	PAS-31	PAS-31
"JST" L & LL Series	PAS-33	PAS-33
"MOLEX" 1545 Series	PAS-33	PAS-34
"MOLEX" 1625 Series	PAS-30	PAS-31
"MOLEX" 3191 Series	PAS-33	PAS-33

SS-30~34

Perfect for extracting both pin and socket terminals.

• The ejector rod inside the sleeve enables you to knock out both male & female pin easily from socket terminal.











Brand/Connector	Pin Housing	Socket Housing						
"TYCO" Mini Universal Mate-N-Lok	SS-30	SS-30						
"TYCO" Universal Mate-N-Lok	SS-34	SS-34						
"TYCO" Commercial Mate-N-Lok	SS-32	SS-34						
"JST" ML & EL Series	SS-31	SS-31						
"JST"L & LL Series	SS-33	SS-33						
"MOLEX" 1545 Series	SS-33	SS-34						
"MOLEX" 1625 Series	SS-30	SS-31						
"MOLEX" 3191 Series	SS-33	SS-33						
"MOLEX" 8980 Series (4-pin connector in PC)	SS-32	SS-34						

(Shape sizes)

Sleeve	Ejector
	(Stroke)

				(mm)
Item No.	Outer Diam of Sleeve	Inner Diam of Sleeve	А	в	С
SS-30	2.5	1.9			
SS-31	2.7	2.1			
SS-32	2.9	2.4	12	64	21
SS-33	3.6	3.1			
SS-34	3.2	2.7			
	SS-30 SS-31 SS-32 SS-33	Item No. of Sleeve SS-30 2.5 SS-31 2.7 SS-32 2.9 SS-33 3.6	Item Null of Sleeve of Sleeve SS-30 2.5 1.9 SS-31 2.7 2.1 SS-32 2.9 2.4 SS-33 3.6 3.1	Item Nu. of Sleeve of Sleeve A SS-30 2.5 1.9	Item No. Outer Diam of Sleeve Inner Diam of Sleeve A B SS-30 2.5 1.9

29

RS NIPPERS SCISSO

PH-01~04 Serrated ratchet allows quick disconnect & reconnect for temporary connection. Ideal for assembling, soldering & precision clamping work. Material: Stainless Steel 3-position Snap Lock (mm) Item No. Point shape Length PH-03 PH-04 PH-01 Straight 125 PH-02 Curved PH-03 Straight Clipping 150 Holding PH-04 Curved component oil hose SS-21-22 Ideal for inserting, removing and adjusting coil springs of electronic components or precision instruments Suitable for removing connector leads, aligning leads of resistor or condenser and testing arrangements of wires 3mm diam.X215 O.A. length SS-22 SS-21 SS-21 SS-22 MAGNETIC PICK-UP TOOL **TP-33-34** TP-35+36 Ideal for part retrieval in hard to reach areas • 4 spring jaws pick up small and ball bearing type parts easily and firmly. Suitable for assembly work of precision instruments. Flexible shaft conforms to any shape Alnico magnet tip Ideal for pick-up work even in hard to reach areas.



		(mm)
Item No.	Housing	O.A. Length
TP-33	¢6.2	250
TP-34	φ6.2	350



	(mm)
Item No.	O.A. Length
TP-35	410
TP-36	525

PA-0	5•0	6.	07•	14										
) Giving Made c) Oil-resi	of carbo	on ste	el allo	by with	nstand	ling ab		-	arp ar	nd pre	cise e	dge		Environment-friendly Elastomer handle
PA-14	0.3 0.4 0.5	nicro	o-thir	ו wire	9		EL-Sec.	In C. C. Barrans		•••		NIRE B PA-14	I HOSE MANN	with strap hole
				8.0. 10. 10. 10. 10. 10. 10. 10. 10. 10.	28 0.15 24 0.98 24 0.98	HIN BRIN	pr	events	s the j	riginal joint fr	om be	-Screv	Ap St	tem No. Wgt. PA-14 134g plicable Sizes Table ripper's Hole Diam(mm) 0.25 0.3 0.4 0.5 0.65 0.8 0.95 a WG Stranded 34 32 28~30 26 24 22~24 20~22 conversion stranded 34 32 28~30 26 24 22~24 20~22
PA-O:	5 for	thin	wire			<u>}</u>		ainten		er you	easy		-	Solid wire 32 30 28 26 24 22 20 () Reference tem No. Wgt. PA-05 166g
rimping l re Termina .5~2.0	al Connect	or Terminal - 1.25]	O C	02 1 1. 14 1 14 1 14 1 14 1 14 1 14 1 14	2017				Environ Elastor			Ap	A W G conversion Stranded 28 26 24 22 20 115 1.45 Solid wire 28 26 24 22 20 18 16
PA-06	B for	thin	wire				•			Environ			Ap	(mm) VBt. Value Value Value 50 plicable Sizes Table 175 175 175 Pripper's Hole Diam(mm) 0.4 0.5 0.65 0.8 0.95 1.15 1.45 A WG conversion Stranded 28 26 24 22~24 20~22 20 118 16
PA-07	7 for [.]	thick	wire					191 S. 191	E BTRICE	Elastor	ner har	Idle	Appli	() Reference
			140 144 C	0						Environ Elastor			Ap	tem No. Wgt. PA-07 134g plicable Sizes Table ripper's Hole Diam(mm) 0.8 0.95 1.15 1.45 1.8 2.1 2.5 A WG conversion Solid wire 22 20 18 16 14 (12) (10)
Wire	e Str	aqi	er A	WG	Co	nve	rsic	on (F	TR PER					() Reference
AWC		34	32	30	28	26	24	22	20	18	16	14	12	
auded wire d		0.19	0.23	0.29	0.37	0.47	0.59	0.74	0.94	1.18		1.88	2.37	Min. stripping length 1mm!
		0.16 0.025	0.2	0.25	0.32	0.40	0.51 0.2	0.64 0.33	0.81 0.52	1.02 0.82		1.63 2.08	2.05 3.31	 Saving time and giving you perfect stripping
nductor dia				0.4	0.5	0.65	0.8	0.95	1.15	1.45				length every time
nductor dia						0.00	0.0	0.00					<u> </u>	Adjustable stripping
nductor dia Sectional a	PA-05													length let you work more
Sectional a sectional a sectional a sectional a sectional a section ϕ	PA-05 PA-06			0.4	0.5	0.65	0.8	0.95	1.15	1.45				efficiently and reduces faults.
tripping nole ϕ (mm)	PA-05					0.65	0.8 0.8	0.95 0.95	1.15 1.15	1.45 1.45	1.8	2.1	2.5	efficiently and reduces

STRIPPING

Tweezers










Screwdrivers



DG-01~04 SRIP DRIVER

- Soft grip handle provides excellent tightening power without slipping.
- Chrome-vanadium alloy steel, perfectly heat-treated gives it lasting durability.
- Black magnetic oxide tip.
- Chrome plated.



DG-05

1

- ⊕/⊖Two-in-one reversible blade.
- Comfortable soft-grip handle.
- Can also be used with electric and air drivers.



					(mm)
Item No.	Point Size	Shaft Length	Shaft diam.	Handle diam.	O.A. Length
DG-05	⊕#2/⊝6	95	6.3	34	210

DP-03~64

- Chrome Vanadium alloy steel & complete heat treated blade.
- Black oxide finish blade.
- Knurl shaft for quick rotation



Size tab	le					(mm)
Item No) .	Blade size	Shaft length	Shaft diam.	Handle diam.	O.A. Length
DP-03		#00	75	3	15	146
DP-24		#0	100	4.3	18	183
DP-44		#1	100	5.5	25	200
DP-64		#2	100	6.3	27	213
DP-13		⊖3.0×0.35	75	3	15	146
DP-34		⊖4.3×0.5	100	4.3	18	183
DP-54		⊖5.5×0.7	100	5.5	25	200
(Blade ciz	a = v	width X thickno	ee)			

(Blade size=width×thickness)

DG-08•09 MASTER GRIP DRIVER

- Master Cushion grip assures powerful fastening power.
- Bottom marking & color distinguish phillips from slotted tip.
- Special alloy steel blade, tempered & plated for lasting durability.
- Precision black-point finish, magnetic point.



					(mm)
Item No.	Point Size	Shaft Length	Shaft diam.	Handle diam.	O.A. Length
DG-08	⊕#2	70	6.3	40	195
DG-09	⊖6×1.0	70	6.3	40	195

DG-11~14 STRA LONG GRIP DRIVER

- Cushion grip handle which fits perfect in the hand provides excellent tightening power.
- Shafts are made of chrome vanadium alloy steel, entirely heat treated with black magnetic oxide tip.
- Chrome plated finish.

DG	DG-12									
						(mm)				
	Item No.	Point Size	Shaft Length	Shaft diam.	Handle diam.	O.A. Length				
	DG-11	⊝6.0×0.8	225	6.3	32	362				
	DG-12	⊕#2	225	6.3	32	362				
	DG-13	⊝6.0×0.8	275	6.3	32	412				
	DG-14	⊕#2	275	6.3	32	412				

DS-03~64

STANDARD DRIVER



DS-34

Size table fo	or				(mm)
Item No.	⊕Blade size	Shaft length	Shaft diam.	Handle diam.	O.A. Length
DS-03	#00	75	3	11	128
DS-23	#0	75	4.3	16	151
DS-24	#0	100	4.3	16	176
DS-44	#1	100	5.5	18	185
DS-46	#1	150	5.5	18	235
DS-64	#2	100	6.3	22	193
Size table f	or⊖driver				(mm)
Item No.	⊖Blade size	Shaft length	Shaft diam.	Handle diam.	O.A. Length
DS-12	2.6×0.35	50	3	11	103
DS-13	2.6×0.35	75	3	11	129
DS-14	2.6×0.35	100	З	11	154
DS-33	4.0×0.5	75	4.3	16	150
DS-34	4.0×0.5	100	4.3	16	175
DS-54	5.5×0.7	100	5.5	18	184





Versatile flexible shaft makes difficult jobs easy

- 6-in-1 ratchet stubby type comes with most needed \oplus / \ominus , hex, box bits and flexible shaft.
- the first and the second se Easy access to tighten screws & nuts at hard-to-reach positions.
- Knurl shaft for quick rotation

Flexible shaft is designed to bend max. 75 degree in double construction. The piano wire is covered with flexible insulation.





Bullet holder is clipped to belt or tool panel.

CONTENTS

- Ratchet stubby O.A.length:80mm •Flexible shaft ●⊕⊖bit Hex bit Box bit
 - O.A.length:182mm ⊕#2/⊝6,⊕#1/⊝4.5 •2, 2.5, 3mm
 - 05.5mm

DR-06 STRATCHET DRIVER WITH BIT SET

Excellent for working in close areas!

- Versatile driver with most popular $\oplus / \ominus \&$ hex bits.
- Complete with handy bullet holder for carrying.
- Replacement set includes: ⊕#00, #1, #2, ⊖4.5, 6
- 1.5, 2, 2.5, 3, 4
- Built-in quick ratchet device.





For use at hard-to-reach positions.



DR-05

- Built-in quick ratchet mechanism increases work productivity.
- Designed to permit work in close areas that are inaccessible
- with ordinary drivers. ● Tip : ⊕#2/⊖6mm





DR-15

DR-16

DR-17

‡ / ‡ T5/T6, ‡ / ‡ T7/T8, ‡ / ‡ T9/T10, T15/T20, T25/T27, T30/T40	110	
 ⊕ Double end bit…#2×65 #2×110 ⊕Step type…#0×85 #1×100 #2×150 ⊕ ⊖bit#2/⊖6×135 		
✿…T8 , T10 , T15 , T20 , T25 , T27 , T30 , T40 ⊕⊖Double end bit#1/ ⊖4.5 , #2/⊝6 (⊕⊝bits are magnetic)	30	

Special Drivers



DT/DTC/DTP/DTY SERIES

Made for special screws, ideal for maintenance work of cordless phones, cellular phones, etc.



Torx (Hex-lobe) screws

There may be a projection in the center of screw hole for prevention of theft and tampering. Torx (Hex-lobe) screws are used for cordless phone, transceiver, precision instruments, etc.

LAALANDA UMAANI								
AREA FLA UNCON								
Point size (mm)								
Item No. Point size Shaft Length Shaft diam Handle O.A. Length Main Use	_							
DTC-20 3.6 90 4.5 7.0 25 190 Game console/Soft								
DTC-27 4.6 90 59 70 25 190 Game console								



DR-18

10-in-1 special driver bit set

- Easy to distinguish different color band.
- Magnet point attracting a tiny screw.



DR-50

Ideal for sure-gripped work in restricted areas.



TWIN WRENCH DRIVER(For Special Screws)

- lacebox Off-set twin wrench driver with 8 Torx bits and 2 \oplus/\ominus bits.
- Non-slip knurled cushion handle.

BoHS

DT-10

DT-20

Point size

Τ2

TX4

Т4

Τ5

Т6

Т8

Item No.

DT-02 ¥0.9

DTX-04 🗱 1.2

DT-04 \$1.3

DT-05 \$1.4

DT-06 🗘 1.7

DT-08 🛱 2.3

DTX-08 2.0 TX8

DT 10 \$27 T10

DT 15 🛱 3.3 T15

DT-20 🗘 3.8 T20

DT-06

***** $\mathbf{\hat{v}}$ Applicable to tampering-proof screws (T6~T20)

diam.

3.0

3.0

3.0

3.0

3.0

5.5

5.5

5.5

Shaft Handle

0.A

146

146

146

146

146

146

146

200

200

200

Set for mobile phone

diam. Lengtl

15

15

15

15

15

15

15

25

25

25

Shaft length

75

75 3.0

75

75

75

75

75 3.0

100

100

100

Bullet type replaceable bit holder.

CONTENTS								(mm)
Shape of Blt	Point				Si	ze			
Torx bit	4	8	10	15	20	25	27	30	40
⊕⊖bit D (2edges)	+-	Ð	#1/	Θ4	5	Œ	#2/	′⊖6	.0

Bit set is separately available DR-17

MOBILE PHONE DRIVER

PPING PLIERS NIPPERS SCISSORS SCREW

(mm)

Main Use

Game console

Smart phone/Mobile phone

Smart phone/Mobile phone

Smart phone/Mobile phone



Magnet hold type for easy operation

44

- Solid shaft machined from one piece of metal, for improved durability. Suitable for maintenance service of facsimile machine and photocopying machine.
- Sliding magnet in socket attracts and catches a hex bolt while fitting different heights of the heads.
- Material: Cr-V (shaft), Cellulose Acetate (handle)

6



DNC-55T



DNC-65T

									(mm)
Item No.	Size●↓	А	В	С	D	E	F	G	Wgt.
DNC-55T	5.5	233	127	29	32	0.5~3.0	9	7	120g
DNC-57T	7	233	127	29	37	0.5~4.3	11	7	125g
DNC-65T	5.5	336	230	29	32	0.5~3.0	9	7	153g



_						(mm)
	Item No.	Size 🗬 🕽	Shaft length	Shaft diam.	Handle diam.	O.A. Length
	DB-15	1.5	70	1.5	11	124
	DB-20	2	70	2	11	124
	DB-25	2.5	70	2.5	16	143
	DB-30	3	100	З	16	173
	DB-40	4	120	4	18	204

				(11111)
Item No.	Size 🗬 🕽	Shaft length	Handle diam.	O.A. Length
DH-15	1.5	90	11	144
DH-20	2	90	11	144
DH-25	2.5	90	11	144
DH-30	3	90	16	163
DH-40	4	90	16	163
DH-50	5	90	18	175
DH-50	5	90	18	175

45

SPECIAL DRIVERS DK-14

- Set of 6 nut drivers with across flats 3~6mm
 Magnetized sockets





With rotary cap



Slim socket design

Self-standing holder

(r	n	m	٦)



Item No.	Across Flats	Screw Diameter	Ext. Soc	ket Size	14/ert	
item no.	\bigcirc		А	В	Wgt.	
	3	M1.4/M1.5	6.3	5.6		
	4	M2	6.3	5.6		
DK-14	4.5	M2.3	8	7	155g (Holder	
DK-14	5	M2.5/M2.6	8	7	included)	
	5.5	MЗ	9.1	8	,	
	6	M3.5	9.1	8		

DK-01.02

Set of 4 (DK-01) and 6 (DK-02) most popular hex drivers in a vinyl pouch.





Materials

Handle:Cellulose Acetate

Socket:Cr-Mo Shaft:Cr-V

Cap:PP

RoHS	HEX	DRIV	ER	SET

Screw	adapted	(mm)		
Size	Set screw			
\Box				
1.5	M1.6,M2	MЗ		
2.0	M2.5,M2.6	M4		
2.5	MЗ	M5		
3.0	M4	M6		
4.0	M5	M8		
5.0	M6	M10		

DK-03 SALL DRIVER SET

Set of 5 most popular ball drivers in a vinyl pouch.



DK-03(5pcs) ●DB-15 •DB-20 •DB-25 •DB-30 •DB-40



DK-04

7-in-1 assortment of Compact-sized Nut Drivers Contents: 03, 3.5, 4, 4.5, 5, 5.5, 6mm



Diam. Handle в A Shaft O.A.L

NUT DRIVER SET

							(mm)
Size	А	В	С	Shaft length		Handle diam.	0.A. Length
З			6				130
3.5			6	75	3.0	11	
4			6				
4.5	18	9	8		4.0	13	145
5	-		8				
5.5			9		4.0		140
6			9				













			(mm)
Item No.	Tip Size	Blade Diam.	O.A. Length
DM-21	#0000	1.4	76
DM-22	#000	1.6	84
DM-23	#00	2	90
DM-24	#0	2.4	102
DM-25	#1	3	110
DM-26	#1	3	118

		(mm)
Tip Size	Blade Diam.	O.A. Length
1.0×0.2	1	73
1.2×0.3	1.2	79
1.8×0.3	1.8	89
2.4×0.45	2.4	102
3.0×0.6	3	110
3.5×0.7	3.5	118
	1.0×0.2 1.2×0.3 1.8×0.3 2.4×0.45 3.0×0.6	1.0×0.2 1 1.2×0.3 1.2 1.8×0.3 1.8 2.4×0.45 2.4 3.0×0.6 3

			(mm)
Item No.	Tip Size	Blade Diam.	O.A. Length
DM-22	#000	1.6	84
DM-24	#O	2.4	102
DM-25	#1	3	110
DM-33	1.8×0.3	1.8	89
DM-34	2.4×0.45	2.4	102
DM-35	3.0×0.6	3	110



With circuit testing driver handle for low voltage. (AC80~250V/DC100~300V) Contents:⊖5.5mm,⊕#00,#0,#1, #2,#3

ENGINEER. MADE IN JAPAN

INTERCHANGEABLE DRIVER SET



With circuit testing driver handle for low voltage. (AC80~250V/DC100~300V) Contents:⊕#1,#2,⊖3, 5.5mm, **0**5.5mm, awl

DK-08 MINTERCHANGEABLE DRIVER SET

DK-05P·06P

• Cost-saving package in Plastic blow-mould case

DK-05 & DK-06













Contents: 04, 5.5, 6, 7, 8,10mm

Contents exactly same as





DA-53~59

Pen type Ceramic Alignment Driver for service and assembly line work

- Two-in-one, slotted tip and hex. core (except DA-58)
- With pen-type cap for protection and portable use
- φ9 x 135mm long



				(mm)
	CRAME ALCREA SCREWBYLER / 0 235-19	Size	Core	Bottom color
DA-54	CERAMIC ALIGNER SCREWORVER / 0 2.8	⊝0.4×0.9	2.0	Green
	DA-54	⊖0.4×1.3	2.0	Blue
	DA-55	⊖0.4×1.8	2.5	Red
DA-55	DA-56	⊝0.7×2.5	2.5	Yellow
	DA-57	⊖0.35×1.95	2.5	Black
	CRAME ALIGNER SOCIETION /- 0.3540.8 DA-58	⊕ #0	-	Gray
DA-56 DA-59	DA-59	⊝0.35×0.8	2.0	Purple

DA-72~79

The DA-70 series ceramic alignment screwdrivers are designed with a

- long slender shaft for a wider application of alignment in remote areas.
- Fine zirconia ceramic tipped alignment screwdrivers, highly intensive, durable, and perfectlynon-conductive
- laces Slide-in shaft is attachable to other tools & equipment
- Long, slim design for easy access to remote areas
- Two-in-one, slotted tip and hex. core (except DA-78)



		49
		-1
 Compact designed ceramic alignment drivers. Perfect for assembly line trimming. Fine zirconia ceramic tipped alignment screwdrivers, highly intensive, or and perfectly non-conductive. 	durable,	SCREW REMOVA
 Two-in-one function with slotted tip and hex core. (except DA-88) Ergonomically designed with convenient rotary cap. 	IFT trimmer coil trimmer trimmer trimmer (Slotted) (Phillips)	
DA-81	DA-85	NIPPERS
DA-82	DA-86	PLIERS
DA-83	DA-87	
DA-84	DA-88	CRIMPING STRIPPING
× 90	DK-91 CERAMIC ALIGNMENT • Assortment of DA-81~88 (8pcs.)	TWEEZERS
Item No. Size Core ASize BOTTOM DA-81 \bigcirc 0.7×1.3 2 Purp DA-82 \bigcirc 0.4×2.4 2.5 Oran DA-83 \bigcirc 0.4×0.9 2 Green	ple ge	SCREW DRIVERS
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	d pow ceramic a Lowert Sorewonver ck	SPECIAL DRIVERS
 Alignment tool for TV, tuner, trimmer under a high frequency current. 	ENT DA-40 Construction (Safe from static discharge) • Overall length: 125mm	WRENCHES
	● Tip: ⊖2×0.5 & ⊜2×0.5mm	CUTTING PROCESSING
		SETS CASES
	TUTUS	SOLDERING EQUIPMENT

		(mm)				
Item No.		Tip	Length of Rod	Llondlo		
ILEITI NO.	Material	Thick	Width	of Rod	Hanule	
DA-01	SK steel	0.5	2.0	100	¢12×54	
DA-02	SK SLEEL	0.5	2.0	150	φ12×04	

-





SMART MONKEY WRENCH

Features • Only 2mm-thick jaws fit in a narrow area.

- Ideal for fastening coaxial (BNC) connectors, double nut, etc.
 No damage given to housing of BNC connectors
- Accurately machined finish of thin edge
- Made of Chrome Vanadium steel
 Extra long jaws and wide opening type (TWM-07 & TWM-08)



TS-04

- 8-in-1 Combination spanner set with key chain
- Box-end inclined (30°)
- Thickness: 1.5mm
- Material: Stainless steel





•	This item is individually available. (mm)							
	Item No.	Si	zes	Thick	Length			
	100111110.	Box	Open	THOR	Longar			
	TS-41	4.0	3.5		100			
	TS-42	4.5	4.0		100			
	TS-43	5.0	4.5					
	TS-44	5.5	5.0	1.5	106			
	TS-45	6.0	5.5	1.5				
	TS-46	6.5	6.0					
	TS-47	7.0	6.5		114			
	TS-48	8.0	7.0					

DROP-FORGED WRENCH SET



TS-05





5.5

TS-07

BIT

ъД

82 11.8 9.5 3.2 4.1

9

C

ΣE





TWB-01+02+04+05			POINT	HEX WR	ENCH	SET	
 Ball head (magnetized) works from a ● Heat treated special alloy with electroless nickel ● Hardness : HRC57±2 		off axis.			3		
TWB-01 8-in-1 Standard Long Shank	TWB-02 8-in-1 S • Stubby arm accessil area where overhead	ble to restricted	Shank				
			(8 pi Across Flat A×	/B-O1 (8 pcs./set) (8 pcs./set) (8 (mm) Jual model) A x B (mm)	TWB-O4 (8 pcs./set) A x B (mm)	TWB-O5 (8 pcs./set) A x B (mm)	
	Stubby arm		 1.5 (TW) 2.0 96 (TW) 0.1 (T	×14 /B-15) 81×4 3×16 /B-20) 96×5 1×18 /B-25) 111×6	51×14 58×16 65×18	51×4 58×5 65×6	
	4		• 3.0 (TW	7×20 /B-30) 127×8 2×25 /B-40) 142×9	74×20 78×25	74×8 78×9	
TWB-04 8-in-1 Standard Arm, Short Sh Hand-held compact sized body in bullet holder	lank		• 5.0 (TW	0×28 (B-50) 160×11 0×32 (B-60) 180×13	89×28 101×32	89×11 101×13	
			●8.0 198 (TW	8×36 /B-80) 198×16			
TWB-05 8-in-1 Stubby, Short Shank		B-13~80 Stores		Itom No. Across	Flats	×B mm	
 Stubby arm accessible to restricted area where overhead space is tight Hand-held compact sized body in bullet holder 			hð	TWB-13 1.2 TWB-15 1. TWB-20 2.	27 7 5 8	70×13 31×14 96×16	
Stubby arm			⇒	TWB-25 2. TWB-30 3. TWB-40 4. TWB-50 5. TWB-60 6. TWB-80 8.	5 11 0 12 0 12 0 16 0 16	1×18 27×20 42×25 30×28 30×32 98×36	
		NH-11~25	Rohs	HEX KE	<mark>Y WRE</mark>	NCH	
				Hex Key Wre		etric size	
		1			ss Flats mm 1.5	L Size 45×14	
HEX WERN SET 127 (1)				TWH-12 2	2.0	50×16 56×18	
TWH-01	TWH-04			TWH-14 C	3.0	63×20	
		∬ <mark>-↓</mark> B	_		4.0 5.0	70×25 80×28	-
	_				3.0 3.0 1	90×32	
Item No. pcs. Set(mm) TWH-01 7 0.89, 1.27, 1.5, 2.0, 2.5, 3.0, 4.0 TWH-04 8 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0		Applicable Sizes C	Chart	Hex Key Wr (mm)	ench in ir	nch size	
INCH SIZE		Hex Across Flats Cap Screw Diam. Set		Item No. Acros	ss Flats	L Size	
				TWH-20 TWH-21		5×10 8×10	
744° 522° 542°		1.27 M1.4 M2 1.5 M1.6, M2 M3	2.5 3	TWH-22 0.05	"(1.27) 4	0×11.5	
HOLT REGION SET		2.0 M2.5, M2.6 M4	4			2.5×12.5 5.5×13.5	

2.5 M3

3.0 M4

4.0 M5

5.0

6.0

8.0

M6

M8

M10

M5

М6

M8

M10 M12, M14 M16, M18



 TWH-24
 5/64"(1.98)
 45.5×13.5

 TWH-25
 3/32"(2.38)
 48.5×14.5

CUTTING PROCESSING

TWS-01~05

- Socket wrench sets contain the complete combination of most needed sockets.
- Chrome molybdenum steel sockets and chrome vanadium ratchet handles.

TWS-05



TWS-05 Contents 💠 52pcs. per set			
Contents	Size/Length(mm)		
Sockets O 6.3(1/4")	4, 4,5, 5, 5,5, 6, 7, 8, 9, 10, 11, 13		
O 12.7(1/2")	10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32		
Socket for 21mm plug	21 Across flats		
Hex. Wrenches	1.5, 2, 2.5		
Hex. Bits	3, 4, 5, 6, 7, 8		
Phillips Bits	#1, #2, #3		
Slotted Bits	4, 5.5, 7		
Plastic Spinner Handle	200		
Ratchet Handles	125, 300		
Extension Shafts	100, 125, 250		
T Type Sliding Handles	115, 300		
Universal Joints	35, 70		
Bit Adapters	25, 30		
Steel Case	450×200×55		



TWS-01 · 02 Contents : 16pcs. per set

Contents	5	Size/Length(mm)
Sockets	TWS-01	5/32, 3/16, 7/32, 1/4, 9/32, 5/16 11/32, 3/8, 13/32, 7/16, 1/2 (inch)
O 6.3(1/4")	TWS-02	4, 4.5, 5, 5.5, 6, 7, 8 9, 10, 11, 13 (mm)
Ratchet Handles	125	
Extension Shafts	50,15	0
Universal Handle	125	
Cross Bar	115	
Steel Case	180×	120×30



TWS-03 Contents : 20pcs. per set

Cc	ontents	Size/Length (mm)		
Sockets	O 6.3(1/4")	4, 4.5, 5, 5.5, 6, 7, 8		
	09.5(3/8")	9,10,12,13,14,17,19		
Adaptor3	/8"→1/4"	25		
Plastic S	oinner Handle	150		
Ratchet H	landle	200		
Extension Shaft		75,150		
Socket fo	r 21mm Plug	21 Across flats		
Steel Cas	e	292×145×35		



TWS-04 Contents : 34pcs. per set				
Contents	Size/Length(mm)			
Sockets O 6.3(1/4")	4, 4.5, 5, 5.5, 6, 7			
	8, 9,10,11,13			
Hex. Bits	3, 4, 5, 6, 8, 10			
Phillips Bits	#1,#2,#3,#4			
Slotted Bits	4, 5.5, 7			
Hex Wrenches	1.5, 2, 2.5			
Plastic Spinner Handle	150			
Ratchet Handle	125			
Extension Shaft	50, 100			
T Type Sliding Handle	115			
Universal Joint	35			
Steel Case	200×110×30			

SOCKET WRENCH SET

Cutting and Processing

00

GB

TWIST DRILL SET



			(mm)		
Item No.	Size	Blade	Length		
TR-01	¢3.0~12	81	113		
TR-02	¢4.0~16	85	118		
TR-03	φ5.0~20	95	130		
TR-04	¢6.0~30	107	145		



E		TD	S-01	
 0.6	0.8	1.0	1.1	
Т)S-(D1		

						Contract of the second					
TDS-02								TD	S-03	} (
3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0	

ドリルセット

NGINEER.

													(mm)
Item No.	Contents	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5
TDS-01	5			٠	٠				•	٠			
TDS-02	6								٠				
TDS-03	8								•				

	(mm)		(mm)
Item No.	Size	Item No.	Size
TD-03	0.3	TD-16	1.6
TD-04	0.4	TD-18	1.8
TD-05	0.5	TD-20	2.0
TD-06	0.6	TD-25	2.5
TD-07	0.7	TD-30	3.0
TD-08	0.8	TD-32	3.2
TD-09	0.9	TD-35	3.5
TD-10	1.0	TD-40	4.0
TD-12	1.2	TD-50	5.0
TD-15	1.5	TD-60	6.0

TD-03~60

TT-01.02

(mm)

TP-20

170

TT-03·10~16

ドリルセット

TDS-03



2203

Primary, Second & Finishing Taps (3pcs./set)

	116 2 (1)
(minimumini)	
	ASE

TAP		(mm)
Item No.	Size	Pitch
TT-10	1.4	0.3
TT-11	1.7	0.35
TT-12	2.0	0.4
TT-13	3.0	0.5
TT-14	4.0	0.7
TT-15	5.0	0.8
TT-16	6.0	1.0

TP-20.23.24

TT-01

• Used for various applications to drilling, tapping, piercing (handy reamer) grinding, etc.

TAP HANDLE

TT-01

Item No. Capacity Length

M1~6.5

TT-02 M2~6.0 85 x 60

- Featuring precision clamping chuck (collet)
- Material:Body-Brass Collet-Steel with plating

Fitting to electric driver with 2 pcs. of Single head collets

TT-02



Double ended shank (Through-hole body) with 2 pcs. of Double-head collets

∢TT-03

CONTENTS

•Tap, 4pcs(2, 3, 4, 5mm)

MINI DRILL CHUCK/PIN VISE

Tap Handle(TT-02)

TP-23



Single end wit with 2 pcs. of Do	h swivel head puble-head collets	TP-24
	Remove the swivel head to put a collet inside.	20 .7

							(mm)
Item No.	Collet Type	Diameter of Drill Bit		Shank	Joint	O.A. Length	Weight (g)
TD 22	Double Head	⊕0.1~1.2	2.0~2.5 🛟	φ8		105	35
11-23	Double Heau	€ }1.2~2.0	2.5~3.2 🛟	φ8		105	35
	Double Head	⊕0.1~1.2	2.0~2.5 🛟	φ8 <u>–</u>		95	40
16-24	Double Heau	<i>6</i>) 1.2~2.0	2.5~3.2 🛟	ψο		90	40
TP-20	Single Head	<u>0.7</u>	~1.9		●6.3	50	20
	Olingle Lieau	Ø 1.9-	~3.0		•0.3	50	20

TV-01~27



TV-04

BENCH VISE (mm)						
Item No.	Size	Max. Opening	Clamp			
TV-01	38	35	0~21			
TV-02	50	35	0~32			
TV-03	63	50	5~33			
TV-04	75	50	18~40			

TV-14

ANVIL VISE (mm)						
Item No.	Size	Max. Opening	Clamp			
TV-11	38	35	0~25			
TV-12	50	35	0~34			
TV-13	63	45	20~45			
TV-14	75	55	20~45			

With special clasp ideal for thin plate, round bar and square lumber.

The reverse of the clasp to be used as a flat clasp.



TN-17

Item No.

TN-11

TN-12



YANKEE VISE (mm)					
Item No.	Size	Max. Opening			
item No.	Size	В	С		
TV-25	50	61	55		
TV-26	65	76	70		
TV-27	75	84	78		

TN-11~18 SAW BLADES

Blade Thick Notches/

25mm

61

56

535

(mm)

0.24

0.26

TN-01~05

TM-04

- Light weight, durable and well-balanced frame design.
- Plastic handles are shaped for perfect grip without slip.
- Saw frame is designed to be adjustable in length and capable of using even broken pieces of saw blades. (TN-04/05)



JEWELLER'S SAW

- Blade contained TN-17 (standard) TN-13&15 (spare)
 The ideal saw blades made of Difference of the standard standa
- SKS special steel alloy with the technological know-how.
- Entirely heat treated, best quality saw blades available.

Item No.	Frame's Depth(mm)	Weight(g)
TN-01	125×75	170
TN-02	120×125	190
TN-03	110×280	240
*TN-04	~150×75	200
*TN-05	~150×125	220

<%Frame length adjustable(TN-04/05)>

TN-13 0.28 Brass & thin Iron Sheet TN-14 #1 0.30 51 TN-15 0.34 #2 43 Copper, Shell TN-16 #3 0.36 40.5 Iron Sheet, Wood, Plastic TN-17 0.38 #4 38 TN-18 #5 0.40 35.5 TZ-02~04 MANDY SAW/HACK SAW TZ-02 Adjustable blade TZ-03

Nominal

Size

#3/0

#2/0

#O

Item No.	Blade Size	Shape	Length	Die casting Aluminum	
TZ-02	250mm24notches	Plastic Grip	260mm	handle	
TZ-03	250mm24notones	Piping Frame	400mm		
Replacement blade TZ-04 (12pcs/dozen)					

TZ-05.07 TF-06.07.10 TF-07 SCRIBER TZ-05 •210mm TF-10 PUNCH TZ-07 •100mm

Item No.

TM-04

TM-05

Scale

15cm

30cm

Applications

Noble metals

58

High performance, Rust-resistant, Black coated files



PRODUCT VIDEO Ξ. Grinding com



Burr on each file tooth is eliminated before black coating, good for high and lasting performance of filing.



Sharp edge of teeth



Rust-resistant black coating



Smooth machined surface, ideal for filing a corner without damage. (TF-11, 21, 31, 41 only)

Item No. Shape Coarseness Blade length O.A. length Wgt(g) TF-11 58 TF-12 59 \square TF-13 Second-cut 215 41 $\underline{\bigcirc}$ TF-14 52 TF-15 56 Δ TF-21 21 TF-22 18 \bigcirc 100 #3 200 TF-23 16 TF-24 19 TF-25 17 \triangle TF-31 58 TF-32 \Box 61 \bigcirc TF-33 Smooth-cut 215 40 TF-34 55 TF-35 58 Δ TF-41 166 325 TF-42 153 \cap TF-43 \bigcirc Second-cut 175 300 109 112 TF-44 325 TF-45 166 \wedge

TFS-07-10-20-30 Set BLACK FILE SET

• A set of Jet Black Files in a roll-up storage with a strap



W240×L240(mm)

W50×L240×H50(mm)

(mm)

(mm)

Item No.		Shape					Coarconoco	Blade length		Wat (a)		
iten no.		\Box	0		\triangle	Diusii	Cualselless	Didue lengui	U.A.length	Wgi(g)		
TFS-07		TF-12			_	_	Second-cut	100	215	274		
153-07	TF-21	TF-22	TF-23		_				Precision	100	200	2/4
TFS-10	TF-11	TF-12	TF-13	TF-14	TF-15	0	Second-cut	100	215	349		
TFS-20	TF-21	TF-22	TF-23	TF-24	TF-25	0	Precision	100	200	170		
TFS-30	TF-31	TF-32	TF-33	TF-34	TF-35	0	Second-cut	100	215	371		
		1		1			1					

TFS-01.02

NORMAL TYPE



TFS-01

TFS-02 (TF-06~10)

Item No.	Contents		0		Δ	Length(mm)
TFS-01	5	•			•	180
TFS-02	5	•		•	۲	200

FILE SET

FIEIFEE O

Sets and Cases



• Pocketable & reasonable kit for daily use

KS-02



- Simple & basic tool kit



Set of 7 items

NSX-04	Micro nippers	115mm
	Miniature pliers	115mm
PTS-01	Tweezers	125mm
DM-22	Output: Precision driver	#3/0
DM-33	Precision driver	1.8mm

DS-03 ⊕Screwdriver #00 DS-13 ⊖Screwdriver 2.6×75 •Case:135×90×30mm •Weight:0.25kg

Set of 11 items NS-03 Micro nippers 125mm PS-01 Miniature long nose pliers 125mm PTS-01 Tweezers 125mm DS-03 ⊕Screwdriver #00 DS-23 ⊕Screwdriver #0 DS-33 ⊖Screwdriver 4×75

DH-15	Hex driver	1.5mm
DH-20	Hex driver	2.Omm
DH-25	Hex driver	2.5mm
	File(Half-round)	
	Cutter knife, S	
●Case ●Weigl		

KS-20

- Pocket-sized and functional tool kit
- with Circuit testing driver handle



KS-27

MY KIT

- Pocket-sized tool kit, ideal for electronics
- with Penlight & Circuit testing driver



Set of 12 items

NN-45	Slant edge nipper	s 125mm			
PR-15	Long nose pliers	125mm			
PTS-01	Tweezers	125mm			
	Phillips bit	⊕#00			
	Phillips bit	⊕#1			
Circuit testing	Phillips bit	⊕ #2			
driver with	Slotted bit	⊖2.5mm			
spare bits	Slotted bit	⊖3.5mm			
oporo bito	Slotted bit	⊖5.5mm			
	Hex nut bit	05.5mm			
	Awl (square)				
	Cutter knife (S)				
●Case:160×90×35mm					
•Weight: 0.5kg					



Circuit testing handle (AC80~250V/DC100~300V)



Cot of 12 it

Set of 13 items					
NS-03	Micro nippers	125mm			
PS-01	Miniature long nose pliers	125mm			
PT-06	Tweezers (J)	120mm			
Circuit testing	Phillips bit	⊕ #1			
driver with	Phillips bit	⊕#2			
spare bits	Slotted bit	⊖3.5mm			
spare bits	Slotted bit	⊖5.5mm			
DM-22		#000			
DM-24		#O			
DM-32	⊖Precision driver	1.2mm			
DM-34	⊖Precision driver	2.3mm			
TWH-01	Hex key wrench set				

Mini penlight (AAA type) •Case: 160×90×35mm •Weight: 0.6kg





Circuit testing handle (AC80~250V/DC100~300V)

KS-05

MAINTENANCE KIT

- For field maintenance service
- Environment-friendly polyester-made case (Lining: made of nylon)



Set of 13 items

000					
NK-15	Diagonal nippers	125mm	PTS-01		125mm
PR-16	Long nose pliers	150mm	TWH-01	Hex key wrench set	
PC-06	Combination pliers	150mm		Soldering iron	26W
DS-03	Screwdriver	#00	SW-30	Solder	20g
DS-23	Screwdriver	#0		File (flat)	
DS-64	Screwdriver	#2	Case	:255×150×50mm	
DS-33	⊖Screwdriver			ht:1kg	
DA-02	Alignment screwdriver	150mm	-		

V Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71

KS-06(KSE-06)

For field maintenance service (Complete Set)



Set of 14 items NK-15 Diagonal nippers PR-16 Long nose pliers PC-06 Combination pliers

KSC-06

Set of 21 items

NN-46 Slant edge nippers PR-16 Long nose pliers PD-06 Side cutting pliers PC-06 Combination pliers PTS-02 Tweezers DS-03 ⊕Screwdriver DS-64 ⊕Screwdriver DS-13 ⊕Screwdriver DS-54 ⊕Screwdriver DN-05 Nut driver DA-02 Alignment screwdriv

DA-02 Alignment screwdriver

DS-03 (Screwdriver DS-23 (Screwdriver DS-64 (Screwdriver DS-33 (Screwdriver DA-02) Alignment screwdriver

MAINTENANCE KIT

Cordless soldering iron (with Multi-holder) expands the utility of traditional tool kits. • For field maintenance service

• Environment-friendly polyester-made case (Lining: made of nylon)



125mm 150mm 150mm

#00

#O #2 4×75

150mm

Cordless soldering iron (with Multi-holder) expands the utility of traditional tool kits.

•For field maintenance service (Complete Set)

Cordless soldering iron

MAINTENANCE KIT

SK-66 Hot blow tip SW-30 Solder File (flat)

•Weight: 1kg

●Case: 255×150×50mm

20g

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-	
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n	

ering iron(w/cap)				
le wrench	20g 200mm			
	150mm			

Cordless soldering iron

 SK-60
 Cordless soldering iron(w/cap)

 SK-66
 Hot blow tip

 SW-30
 Solder
 20g

 TWH-02
 Adjustable angle wrench
 200mm

 File (flat)
 File (flat)
 150mm

 TMH-04
 Steel rule
 150mm

 TWH-04
 Hex key wrench set (8 pcs.)
 Cutter knife (S)

 ©Case : 305×220×45mm
 Waight : 2kg

•Weight : 2kg

MARTENNE NT EGG IIIIII	
Second and the second	

Set of 20 items

nm
nm
nm
nm
nm
Ο
Ο
2
5
Ο
nm
nm

SKC-40	Soldering iron	32W		
SW-30	SW-30 Solder			
TWM-02	Adjustable angle wrench	200mm		
	File (flat)			
	File (round)			
TM-04	Steel rule	150mm		
TWH-04	Hex key wrench set (8	pcs.)		
	Cutter knife (S)			
●Case:305×220×45mm ●Weight:2kg				
KSE-06 Case only				

MAINTENANCE KIT

V Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71



150mm 150mm 150mm 150mm 125mm #00 #0 #2 .6×75 5.5×100 5.5mm

150mm

KS-03(KSE-03)

• General electronic & job training use



NN-45	125mm			
PR-16	Long nose pliers	150mm		
DS-03	Screwdriver	#00		
DS-23	Output: Out	#O		
DS-64		#2		
DS-33	⊖Screwdriver	4×75		
DA-01	DA-01 Alignment screwdriver			
PTS-01	Tweezers	125mm		
	30W			
Solder				
	Solder paste			
	Soldering stand			
Case	:240×115×45mm			
•Weight: 0.8kg				

V Soldering Iron 220V~240V available by assortment of SK-14 as per Page 71

KS-04(KSE-04)

TOOL KIT

TOOL KIT

- General electronic & job training use • Environment-friendly polyester-made case (Lining: made of nylon)



Set of 14 items

NN-45	Slant edge nippers	125mm	DN-05	Nut driver	5.5mm
PR-16	Long nose pliers	150mm	PTS-02	Tweezers	125mm
	Side cutting pliers	150mm	SKC-30	Soldering iron	26W
	⊕Screwdriver	#00		Solder	
	Output: Contract Science Contract Sci	#0		Solder Paste	
	⊕Screwdriver	#2		Soldering stand	
DS-33	⊖Screwdriver	4×75		Cutter knife (S)	
●Case: 255×150×50mm					

●Weight:1.1kg

KSE-04 Case only

Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71

KS-08

- ●For electronics, PC maintenance, PC modification, etc.
- Environment-friendly polyester-made case (Lining: made of nylon)



ELECTRONICS KIT

Set of 21 items					
NS-03	Micro nippers	125mm			
PS-01	Miniature long nose pliers	125mm			
PTS-01	Tweezers	125mm			
SS-01	Solder sucker				
SS-08	IC extractor				
SS-22	Spring hook				
	Soldering iron	30W			
SL-02	Inspection mirror				
SWU-04	Solder wick	2.8mm			
	Solder (1m)				
TWH-01	Hex key wrench set				
DN-05	Nut driver	5.5mm			
DM-22	Precision driver	#000			
DM-33	⊖Precision driver	1.8mm			
o: ::	Phi ll ips bit	⊕#00			
Circuit testing	Phillips bit	⊕#0			
driver with	Phi ll ips bit	<u>⊕#1</u>			
spare bits	Phi ll ips bit	⊕ #2			
oparo bito	Slotted bit	⊖3.5mm			
	Cutter knife (S)				
	File (half-round)				

●Case:255×150×50mm Weight : 1.0kg

KSC-04

Cordless soldering iron (with Multi-holder)

- expands the utility of traditional tool kits.
- General electronic & job training use
- Environment-friendly polyester-made case (Lining: made of nylon)



Cordless soldering iron

Set	of 1	5 ite	ems
-----	------	-------	-----

NN-45	Slant edge nippers	125mm	DS-33	⊖Screwdriver	4×75
PD-06	Side cutting pliers	150mm	SK-60	Cordless soldering iron()	N/cap)
PR-16	Long nose pliers	150mm	SK-66	Hot blow tip	
PTS-02	Tweezers	125mm		Solder	
DN-05	Nut driver	5.5mm		Solder Paste	
DS-03	⊕Screwdriver	#00		Soldering stand	
DS-23	⊕Screwdriver	#0		Cutter knife (S)	
DS-64	①Screwdriver	#2			
€Case: 255×150×50mm					

●Weight: 1.1kg



•For electronics, office automation maintenance, etc.

•Environment-friendly polyester-made case (Lining: made of nylon)



Set of 18 items						
NS-03	Micro nippers	125mm				
PR-16	Long nose pliers	150mm				
PTS-01	Tweezers	125mm				
PZ-56	Screw removal pliers	175mm				
DP-03	Pro-use driver	⊕#00				
DP-24	Pro-use driver	⊕#O				
DP-64	Pro-use driver	⊕#2				
DP-34	Pro-use driver	⊖4.3mm				
DN-05	Nut driver	5.5mm				
	Mini spanner	5.5×6				
	Mini spanner	8×9				
TM-04	Steel rule	150mm				
TZ-05	Scriber	220mm				
TWH-01	Hex key wrench set					
TWM-03	Smart monkey wrench	150mm				
SL-02	Inspection mirror					
	Cutter knife (S)					
	File (half-round)					
●Case: 250×180×50mm						
•Weight: 1.3kg						

KS-28(KSE-28)

Basic assortment of general purpose tools and free space in mesh pocket for your own use

- Soft touch EVA plastic case with double panel
- A4 size pocket is provided on the reverse of upper panel which is capable of documents,
- measuring instrument or notebook P.C. (max. 40mm thick)
- Tool panel is easily detachable with hook, which is convenient for field work.



TOOL KIT

on the reverse





Free space in mesh pocket

KS-28 Set of 22 items

NN-46	Slant edge nippers	150mm
PR-16	Long nose pliers	150mm
PD-06	Side cutting pliers	150mm
PZ-55	Screw removal pliers	150mm
PW-08	Pump pliers	200mm
PTS-01	Tweezers	125mm
DA-01	Alignment driver	100mm
DKD-01	Circuit testing driver	
DN-05	Nut driver	5.5mm
DG-05	⊕/⊖Cushion driver	#2/⊖6
DG-21	⊖Mini soft driver	3×100mm
DG-24	⊕Mini soft driver #	0×100 mm

 Clear pocket (detachable)

SS-05	Tip cleaner with stand			
SW-30	Solder	20g		
	File (half-round)			
	Measuring tape	2m		
TS-05	Open-End wrench set			
TWH-01	Hex key wrench set			
TWM-02	Adjustable angle wrench	200mm		
	Cutter knife (S)			
	Vinyl tape			
●Case : 405×306×100mm (Ext.)				

380×276×73mm (Int.) ●Weight : 3.7kg KSE-28 Case and panel 1.8kg

SKC-30 Soldering iron

Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71

Cordless Soldering Iron can be assorted instead of OPTION SKC-30 at customer's option.

63

26W

TOOL KIT

KS-11(KSE-11)

Field service and maintenance of production lines & machinery

KS-11(Tool kit) KSE-11 (Case and panel only) - Net 5 kg



Set of 60 terms NS-03 Micro nippers 125m NN-46 Stant edge nippers150m PS-01 Miniature pliers 125m PA-46 Needle nose pliers 150m PD-06 Side cutting pliers 150m PC-06 Combination pliers 150m PA-10 Pump pliers 250m PA-01 Wire pliers Pm-01 PH-03 Lock holder 150m PH-03 Lock holder 150m PH-33 Electronic snips 145 #0C ①Screwdriver DS-24 ⊕Screwdriver ⊕Screwdriver #O -44 # DS-44 ⊕Screwdriver #1 DS-64 ⊕Screwdriver #2 DS-13 ⊖Screwdriver 2.6×75 DS-34 ⊖Screwdriver 4×100 Alignment driver 15 DA-02 DM-22 Precision driver #3/0 DM-22 ⊕Precision driver # DM-23 ⊕Precision driver 1 DM-33 ⊕Precision driver 1 DM-34 ⊖Precision driver 2 DZ-24 Screw-holding driver DG-12 Long progrip driver #2×22 DN-02 Nut driver DN-04 Nut driver #00 .8mm .3mm #O 1mm mm DN-05 Nut driver 8mm DN-08 Nut driver 04 Ratchet stubby driver set DZ-08 Offset driver set

Set of 60 items

TWM-02	Adjustable angle wrench	200mm
TS-05	Mini spanner set (5	5 pcs.)
TR-03	Taper reamer	20mm
	Hammer	
	Measuring tape	2m
	Hex key wrench :	set
TWS-02	Socket wrench s	et
TFS-02	File set	
	Handy saw	
	Soldering iron	32W
SW-31		150g
SS-05	Tip cleaner with:	stand
SS-02	Solder sucker	
	C Extractor	
SS-21	Spring hook	
SS-22	Spring hook	
SL-03	Inspection mirror	
TP-35	Magnetic pick-up	o tool
KP-03K	Parts box	
SWU-04	Solder wick	2.8mm
	Vinyl tape	
	Pen light	
	Cutter knife (L)	
ZC-19	Oiler	20cc
	Flat brush	
	Poly bottle 50cc.	/2pcs.
	Poly bottle 100cc/	/2pcs.
	Silicon cloth	
SD-10	Digital Multimete	er
455× 440×	num Case : :330×176 (Ex :315×168 (Int at : 12kg	

Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71



ATTACHE TOOL KIT

KS-12

Stylish and functional tool kit



Set of 25 items

NS-03	Micro nippers 125mm
PS-01	Miniature pliers 125mm
PD-06	Side cutting pliers 150mm
PTS-01	Tweezers 125mm
DA-51	Ceramic alignment driver
DG-21	⊖Mini soft driver 3×0.4
DG-22	Mini soft driver #OC
DG-24	Mini soft driver #C
DG-01	⊖Pro grip driver 5.5×0.7
DG-04	Pro grip driver #2
DST-05	⊕⊖Reversible stubby driver #2/⊖6.3
SD-10	Digital multimeter
SKC-30	Soldering iron 26W
SS-02	Solder sucker
SS-08	IC extractor
SS-10	PCB connector extractor
SW-30	Solder 20g
TWM-03	Smart monkey wrench 150mm
TWH-04	Hex key wrench set
TS-05	Mini spanner set (5 pcs.)
TM-04	Steel rule 150mm
PA-06	Wire stripper
SWU-04	Solder wick 2.8mm
SL-50	Pocket loupe
	Cutter knife (S)

Dividing plate for soldering box & tester

							(mm)
Item No.	L	W	Н	HL	HB	Weight(kg)	Color
KS-12	465 (450)	345 (320)	129 (105)	(35)	(70)	6	Black
(): Internal size							

V Soldering Iron 220V~240V available by assortment of SKC-30 as per Page 71

- 65



KA-22

KSE-12

Neatly designed for a stylish appearance

Incorporating empty tool panel and document pocket

Attractive and functional multipurpose case

- Light-weighted & durable case made of ABS resin
- Nylon 100% (Hypalon) interior finish for more than just business
- Tool panel (option) can be hidden from free space by dividing plate.
- Comes with multipurpose pockets

BODY

This handsome case is molded of ABS plastic with simple form line, lightweight and durable construction. Suggest a new field of use and produce the joy in possession of the case.

DIAL LOCK

Add security with combination dial lock and two pushing locks. Open easily by sliding outside the 2 buttons.

ATTACHE CASE(WIDE TYPE)

Besides business use, add functional and

fashionable pockets and storage pouch to

meet multipurpose requirements.



INSIDE



(Remark) The dime ate the internal s ject to within a t wed. H=HL+H



							(mm)
Item No.	L	W	Н	HL	HB	Weight(kg)	Color
KA-22	450	320	105	35	74	2.4	Black

hand and			

nsio	ns	in	did	28
izes	bι	ıt	sι	ıb
olera	nc	e	allo	J۱
IВ				

SABS ATTACHE CASE



KA-50•51

- Featuring a matt surface in silver color
- Streamline appearance









	Internal		(mm)			
Item	L	W	Н	HL	HB	Weight(kg)
KA-50	440	320	105	40	65	2.6
KA-51	440	320	130	50	80	2.8

Stylish round corne

-

Tool panel affixed to shell with Velcro and detachable

KA-57

• Stylish case coming with shock-proof sponges and tool panel





Wavy formed urethane (upper shell) and cut sponges (body) protect contents such as camera, camcorder, etc.



External dimensions (Internal dimensions)					(mm)			
Item No.	L	W	Н	HL	НВ	Tool Panel (single)	Weight(kg)	
KA-57	450(435)	330(314)	135(120)	(52)	(68)	420×300	4.1	



avy sponge		
	15mm	
	15mm	
ut sponge		
h cut sponge (15v1	5mm) can be removed	

so as to fit the size and shape of content.

KA-30•42~44

- Heavy-duty type
- Made of 1.5mm-thick rugged aluminium of anodized finish
- All the corners reinforced with
- aluminum frame and rivets
 Case inside in melton finish







(Remark) The dimensions indicate the internal sizes but subject to within a tolerance allowed. H = HL+HB

Internal Size					(mm)	(kg)	
Item No.	L	W	Н	HL	HB	Wgt.	Max.Load
KA-30	440	315	165	55	110	4.3	15
KA-42	540	320	160	50	110	4.6	15
KA-43	590	410	205	50	155	6.2	00
KA-44	650	450	197	60	137	7.4	20

ALUMINIUM CASE FOR CLEANROOM

Water-repellent, anti-static or cleanroom

type is available at option.

KAC-30.42

- Constructed of aluminum sheets without any accessories nor material generating dust
- KAC-42 is ideal for storage of precision instruments in cleanroom







Durable handle

Internal Size					(mm)	(kg)	
Item No.	L	W	Н	HL	HB	Wgt.	Max.Load
KAC-30	440	315	165	55	110	4	15
KAC-42	540	320	160	50	110	4.7	15

0

KA-54

• Featuring a glossy surface in black color Streamline appearance

67





Item L W H HL HB Weight(kg) KA-54 440 320 130 50 80 2.8

S

KP-01~03(KP-95~97)

Durable transparent box, ideal for transporting, classification and storage of small parts.

- Lightweight, compact and durable component box made of polypropylene
- Interchangeable dividing plates can be configured to create storage space
- See-through, transparent box. With article labels.
- Optional dividing plate set
 - KP-95 : 6 pcs/set adaptable to KP-01 KP-96 : 6 pcs /set adaptable to KP-02 KP-97 : 6 pcs./set adaptable to KP-03



●KP-01 Ext. Size : 157×102×42mm 4 pcs. of dividing plates included

●KP-02 Ext. Size : 207×145×40mm 12 pcs. of dividing plates included

●KP-03 Ext. Size : 255×190×40mm

KP-02K•03K(KP-96•97)

Heavy duty transparent parts box, ideal for classification and storage

- Super clear transparent lid owing to shock-proof polycarbonate resin
- Micro-rib system of divider setting
- Material: Lid Polycarbonate
 - Body & Divider Polypropylene
 - Latch ABS resin
- Optional dividing plate set
- KP-96 : 6 pcs./set adaptable to KP-02K KP-97 : 6 pcs./set adaptable to KP-03K



●KP-02K Ext. Size : 205×145×40mm 18 pcs. of dividers included

Compact, lightweight and portable.

External Size:120×92×25mm

KP-04

components.

MICRO-RIB SYSTEM Rib Divider

2 patterns of interchangeable divider setting are possible to adjust interval of partition at every 3.2mm

●KP-03K

• Compact IC storage box made of anti-static plastic body • Comes with 10mm-thick high density conductive foam







KP-51 External Size : 80×135×25 Internal Size : 75×130×19

KP-52 External Size : 230×145×28 ● Internal Size : 219×134×22

16 pcs. of dividing plates included



Most suitable for electronic parts and other small

Material: Styrene resin(lid), Polypropylene (body).











Soldering Equipment



SK-30/40SERIES

SOLDERING IRON

Excellent built-in ceramic heater. Compact & light-weight design suitable for accurate soldering operations

- High efficient ceramic heater permits quick heat-up, enabling soldering operation only in about 1 minute.
- The use of a small connector connecting heater and power cord permits exchange of heaters with one touch.
- Short length from grip to tip for easy operation
- Screw type tip permits easy exchange of tips.
- Perfect for accurate soldering operation with sharp soldering tip (long life and non corrosive).
- With heat-resistance cap for handy storage after use. (SKC-30/31/32/40/41)



Specification								
Item No.	Max.Tip Temp.	Watt	Tip	L'gth	Wgt(g)	Rated Voltage	Insulation Resistance	
SK-30								
SKC-30	400℃		ST-10					
SKE-30				000				
SK-31		26W		202mm	130	100V	100M0	
SKC-31	440℃	2010	ST-11		130	1000	1000012	
SKE-31								
SK-32	390°C		ST-14	204mm				
SKC-32	3300		51-14	204				

SKC with Heat-Resistant Cap. SKE with 3-pin plug.

V 220V 230V 240V are also available. © REF. Page 71

Caution Ceramic heater is not elastic and may be broken by excess shock. Please refrain from beating and wrenching.



SK-40 SERIES

Specification

opeenidation								
Item No.	Max.Tip Temp.	Watt	Tip	L'gth	Wgt(g)	Rated Voltage	Insulation Resistance	
SK-40	450°C		ST-20					
SKC-40	4500	32W	31-20	204mm	130	100V	100ΜΩ	
SK-41	470°C	32W	ST-21					
SKC-41								

SKC with Heat-Resistant Cap.

Caution Ceramic heater is not elastic and may be broken by excess shock. Please refrain from beating and wrenching.





ST-22 Max. Tip Temp. 430°C ST-23 Max. Tip Temp. 500 °C Ceramic heater is not elastic and may be broken by excess shock. Caution

Please refrain from beating and wrenching.

ST-20 ST-21

© 0.8 € 0.8 ST-22

Tip Tip ST-22 Tip ST-23 Tip Heater(220~240V) SH-12



SKB-70 Contents ●Body(SK-71 solder tip) ●Hot blow tip

Gas Catalyst Reaction System 200°C~500°C (Equivalent to 20~80W electric soldering iron)

650°C MAX

28ml

Abt 4 hours

(Lever position : 2)

Multi-holder creates new field of cordless soldering iron!

- Perfect for in-field service and maintenance where instant heat is required.
- Super quick heat up with one touch operation.

SK-70SERIES

- Completely cordless assures no electric leakage no E.M.I.
- Flameless and safe heat generating system by gas catalyst reaction.
- Variable temperature control (equivalent to 20-80 watts).



Telecommunication field

System

One Gas Fill

Soldering Iron

Hot Blow

SKD-70 set comes with a high-power tip for cable maintenance tasks and an accurate tip for telephone office service.

		r tip(SK-72)		
	Multi-		O.A.Length	281mm including cap
	Protec	ctive cap	Weight	110g
F				
	SK-70SER	ES	REP	LACEMENT PARTS
Three function of Multi-holder				
assures safe and wide task	Tip(Iron coated)	(mm)	Protective cap	
	18.5	13		
field !	¢1 SK-71	¢3 SK-80	🕂 SK-88	
Hanging from	†P			
cable	18.5	13		
Cable	W3.3 D SK-72	W5 SK-81	Cleaning sponge	
	+ <u><u><u></u></u></u>	↓ <u> </u>	\wedge	
	18.5 c			Item No. Description
	¢2 SK-73			SK-71 Tapered needle
	¥45° ••••••••••••••••••••••••••••••••••••	Hot blow tip	~	SK-72 Chisel
			SK-89	SK-73 Ø2mm spade
2 Magnetic	¢3	¢1.5, □ [SK-82]		SK-74 Ø3mm spade
attachment	' ∼ 45° ~~~		Heat shrink	SK-75 Tapered needle
A Contraction of the second se			W/A a	SK-76 Ø2mm spade
	φ0.5 SK-75	φ3.3 ΕΞΕ SK-83		SK-77 Tapered pyramid
	17.5	4 (<u></u>	SK-93	SK-78 Offset tapered needle
			SK-94	SK-79 High powered chisel
		¢4.9 SK-84	●Ceramic unit	SK-80 High powered round head needle
Otarral	18.5	φ4.9 <u>[[]3K-04</u>]		SK-81 High powered long taper chisel
3 Stand		Hook fitting		SK-82 Hot blow tip
				SK-83 Hot blow tip
And			SK-96	SK-84 Hot blow tip
	1 ³⁰ HSK-78			SK-85 Hook fitting
	¢1 18	SK-85		SK-88 Protective cap
	. 13 .			SK-89 Cleaning sponge
	W8 SK-79			SK-93 Heat shrink W-22
Multi-Holder is useable for both SK-60 series				SK-94 Heat shrink W-18
and SK-70 series.				SK-96 Ceramic unit
SKM-40•SK-42~47	HANDY	KOTELYZER	SK-90•9	5 SAS REFILL
		(mm)		
 Advanced and streamlined design Hot blow & powerful torch 		14		ur original gas for refill. fied odorless gas for industry
 Improved heat-generating structure of met 	al catalvet	© ¢1 <u>⊂ [] ⊙</u>	use)	neu ouoriess gas ior industry
Come with cleaner stand & solder	aroataiyət	SK-42	u38)	
		14		

- Come with cl
- Capable of continuous use in one hour



	Speci	fications	Killing Contraction
~	Sy	rstem	Gas Catalyst Reaction System Pressure Gas Burning System (Torch)
	Thermal	Soldering Iron	200°C~500°C (Equivalent to 20~60W electric soldering iron)
-	Output	Hot Blow	650°C MAX
-		Torch	1300°C MAX
		101011	10000 10000

Operation Time

for One Gas Fill

O.A.Length

Weight

about 60 min.

197mm Cap Included 74g

(Lever position: Middle)

@W2. 0E SK-43 0 SK-44 (\square) - XE SK-45 0 φ4.7 [] ő SK-46 SK-47

	61(47
Item No.	Description
SK-42	Tapered Needle
SK-43	Chisel
SK-44	ϕ 2mm Spade
SK-45	Chisel
SK-46	Hot blow tip
SK-47	Eiector Unit

SK-90

ENGINEER

265ml





480ml

Torch

Hot Blow

SS-15 2P-3P PLUG CONVERTER

Convertes 3P Plug with ground wire into 2P.



ZC-70·71

Ideal for rework of SMD solders.

Pin-point accuracy with no spillage

- ZC-70
- FLUX 50cc
- FLUX DISPENSER
- NEEDLE (Hole diam. 0.25/0.5mm)
- 1pce. each ● CLEANING PIN 1pce. each
- ZC-71
- FLUX DISPENSER (BOTTLE)
- NEEDLE (Hole diam. 0.25/0.5mm)
- 1pce. each ● CLEANING PIN 1pce. each

SD-20(SD-21~26•SD-60~88)

High-capacity ceramic heater and powerful motor, capable of suction and hot air blow.

- Built-in motor, diaphragm type vacuum pump, temperature adjustable circuit and indicator light.
- ullet Low noise and low vibration due to floating mechanism.
- Minimum reaching time to the maximum vacuum and powerful suction capacity.
- Ideal for desoldering on 4-8 layered PCB's.
- No static damage to IC etc. due to carboniferous body.





Temperature Characteristics Figure2 500C-400-300-200-100-*THROUGH HOLL PCB (BOTH SIDES) DESOLDERING OF 40P1C HOLE DIA. OF TIP: 01.0 ST-UPT TIMPERATURE: 370C

REPLACEMENT PARTS

2 3(min.)

Item No.	DESCRIPTION
SD-61	TIP Ø0.8
SD-62	TIP Ø1.0
SD-63	TIP Ø1.5
SD-87	TAPERING SLIM TIP ϕ 0.8
SD-88	TAPERING SLIM TIP ϕ 1.0
SD-21	HEATER HOLER
SD-22	HEATER ASSY
SD-23	PIPE SETTER
SD-24	FILTER CARTRIDGE (5pcs.)
SD-25	SEAT VALVE
SD-26	DIAPHRAGM

Contents

- Carrying case
 Desoldering tool
- · Spare tip (ϕ 1.5)
- · Spare filter cartridge (2pcs.)
- · Cleaning pin

SPECIFICATIONS

POWER SOURCE	AC100V · 50/60Hz
PUMP	DIAPHRAGM TYPE
MOTOR OUTPUT	12W
VACUUM ATTAINED	650mmHg
TIME REQUIRED TO REACH MAXIMUM VACUUM	0.2 seconds
AIR FLOW RATE (OPEN)	15 liter/min.
HEATER	100W(Ceramic)
CONTROL SYSTEM	Feed back zero cross over type
TEMPERATURE RANGE	350~500°C
TIP (HOLE DIA.)	1.0ϕ (STANDARD)
POWER SUPPLY CORD	3P CORD (W GROUND)1.8m
WEIGHT	420g(excluding cord)

TOOL STAND



SD-60

SD-30(SD-29•31•86) SMD ACCESSORY KIT

 For easy removal of SMD components including QFP & SOP owing to Hot Blow function of SD-20





Contents: SD-29 Filter Pipe SD-31 Stainless Wire Reel SD-86 Hot Air Nozzle



ENGINE



1

SOLDER CLEANER SD-20





INDICATOR LIGHT When the heater is on, light goes on and when the temperature reaches set-up level, it flickers.

> Temperature Adjustment Dial

(350~500°C)



SS-20

SS-05

• Weight: 75g

• Heat resistance engineering plastic on iron holder for cutting heat conduction to iron's grip

● Glass-filled nylon resin (Housing) featuring heat resistance of 130℃

Comes with 2 pcs. of cleaning sponges of different density (blue & yellow)

O-ring creates airtight condition to keep sponge moist.

• Easy to open the lid owing to sliding-lock structure

- Holds any soldering iron up to 13mm diam.
- 700g massive base stand creates high stability on bench.
- Dimensions:80Wx140Hx90D (mm)









Ring detachable

64

75

(mm)

32 O-ring in lid Sliding lock SS-01.02 All aluminum construction, well designed to suck up melted solder easily and efficiently with one-hand plunger action. Self-cleaning shaft allows high productivity of continual work without clogging. SS-01 •Teflon tip : ϕ 2.2mm (Int.) Ideal for desoldering work at dense spot on PCB •Body: ϕ 14 x 170mm SS-02 Elastic and heat-resistant nozzle can stick to soldering iron on board closely and suck up solder powerfully with less residue. SS-02 •Silicone nozzle : ϕ 2mm (Int.) ϕ 4mm (Ext.) High-power and efficient absorption by means of elastic nozzle contact •Low maintenance cost owing to spare tube only required for replacement ●2 pcs. of spare silicone tubes (50mm long) originally included ●Body: *φ*20 x 153mm ENGINEER. 88-02 Plunger is within easy reach of thumb. It is ideal for one-hand operation Heat resistant (350°C) Compact and durable in continuous work. silicone nozzle aluminum body Item No. Cylinder Capa. Wgt. SS-01 33g 5 ml SS-02 9 ml 52g **SS-11** SS-16 REPLACEMENT SILICONE TUBES ● *ϕ*2 x 50mm 2 pcs./set • Cut desired length of tube freely. (mm) SS-11 Use only for SS-02 \bigcirc φ2.2 φ12



SWS-06~12 SUPERIOT RMA SOLDER

No cleaning high performance resin core solder, highest grade flux construction

- Completely non-corrosive flux residue which requires no cleaning after soldering
- Everlasting and reliable bonding owing to non-conductive and non-absorbable residue
- Wide solder spread and wetting for speedy work

76

• Contains organic amine activated rosin to meet highest JIS grade & MIL-RMA.



Superiot RMA / For use on precision PCB of copper and its alloy

Item No.	Tin/Lead Ratio, Melting point	Flux(Wt%)	Soluble resistance Ω • cm	Insulation resistance Ω	Wire diam. (mm)	Wire length. (m)
SWS-06		1 70/		3×1013	0.6	5.6
SWS-08	Sn60/Pb40	1.7% Noncleaning	1×10⁵	(Normal temp.)	0.8	4.4
SWS-10	183~190°C	flux	1 × 10	5×1012	1.0	5.5
SWS-12		nux		(Higher humidity)	1.2	4.6

SWA-06~12 SUPERIOT RA SOLDER

No cleaning high performance resin core solder for soldering stainless steel

- Non-corrosive flux residue featuring everlasting bonding
 Featuring stable bonding owing to non-conductive and non-absorbable residue
- Continuous and high performance activation makes it possible to solder stainless steel.
- Contains organic amine activated rosin to meet JIS standard.



Superiot RA / For use on stainless steel & nickel

Item No.	Tin/Lead Ratio, Melting point	Flux(Wt%)	Soluble resistance Ω • cm	Insulation resistance Ω	Wire diam. (mm)	Wire length. (m)
SWA-06		0.70		2×1013	0.6	5.6
SWA-08	Sn60/Pb40 183∼190℃	2.7%	6×10⁴	(Normal temp.)	0.8	4.4
SWA-10	183~190°C	flux	0.10	2×1012	1.0	5.5
SWA-12		nux		(Higher humidity)	1.2	4.6

SWS-56~82 SUPERIOT RMA SOLDER

SWS-80

Item No. Wire diam. (m) Weight (g) SWS-56 0.6 SWS-58 0.8 SWS-60 1.0 SWS-62 1.2

 SWS-62
 1.2

 SWS-76
 0.6

 SWS-78
 0.8

 SWS-80
 1.0

 SWS-82
 1.2

SWA-56~82

SUPERIOT RA SOLDER



SWA-58

Item No.	Wire diam. (mm)	Weight (g)
SWA-56	0.6	
SWA-58	0.8	500
SWA-60	1.0	500
SWA-62	1.2	
SWA-76	0.6	
SWA-78	0.8	1000
SWA-80	1.0	1000
SWA-82	1.2	

SWU-02~06

SWS-58

- SODER-WICK® Highest copper braid features fast absorption of solder.
- No cleaning process required and leaving less residue of flux on circuit board



For desoldering highly dense SMD

SWU-02 15mm×15m



For desoldering small electronic parts or plated through hole SWU-03 1.9mm×1.5m



For desoldering medium electronic parts or solder bridges SWU-04 2.8mm×1.5m



For desoldering large-sized parts or terminals

SWU-05 3.9mm×1.5m



SOLDER WICK



For use at large solder lugs

SWU-06 5.6mm×1.5m

*Product of chemtronics, U.S.A

SW-11~53

- High quality solder wire for precision electronic components.
 No paste is necessary because of activated rosin.



Item No.	diam.(mm)	Weight(g)
SW-11		150
SW-12	0.6	500
SW-13		1000
SW-21		150
SW-22	0.8	500
SW-23		1000
SW-30		20
SW-31	1.0	150
SW-32		500
SW-33		1000
SW-41		150
SW-42	1.2	500
SW-43		1000
SW-51		150
SW-52	1.6	500
SW-53		1000

SD-10

Multifunctional and compact : The ultimate tool for all your measurements!

- 3999 Counts, Auto-ranging
- Magnetic attachment to a metallic surface
- Gold-plated test leads for corrosion-resistance





Test leads can be stored conveniently.

Operating principle	Dual integration				
Display	LCD, 3999 Counts				
Range switch	Auto range	Auto range			
Auto power off	Approx. 30	minutes (ca	n be disabled)		
Sampling	3 times / s	ec.			
Operating	O°C to 40°C	less than 8	0% RH		
temperature	(without co	ndensation)			
Storage	-10°C to 60	°C less than	70% RH		
temperature	(without co	ndensation)			
Power	CR2032(3	V) lithium ba	ttery x 1		
Battery life	Approx. 12	0 hours			
Dimensions		7(H) x 12.5	(D)mm		
and weight		lg (incl. batt			
Lead length	Approx. 70	cm			
Standard	IEC61010-		OV.CATII 300V		
Accessories		nanual, Soft			
	poration				
Function	Range	Resolution	Accuracy		
	4V	0.001V			
	40V	0.01V			
DCV	400V	0.1V	$\pm(1.0\%+3dgt)$		
	600V	1V	-		
	4V	0.001V			
	40V	0.01V			
ACV	400V	0.1V	\pm (2.0%+5dgt)		
	600V	1V	-		
	400Ω	0.1Ω			
	4kΩ	0.001kΩ	-		
	40kΩ	0.01kΩ			
Resistance	400kΩ	0.1kΩ	\pm (2.0%+5dgt)		
	4MΩ	0.001MΩ	-		
	40MΩ	0.01MΩ	-		
	5Hz	0.001Hz			
	50Hz	0.01Hz			
-	500Hz	0.1Hz			
Frequency	5kHz	0.001kHz	$\pm(0.5\%+5dgt)$		
	50kHz	0.01kHz	-		
	100kHz	0.1kHz	-		
	50nF	0.01nF			
	500nF	0.1nF	1		
Capacitance	5uF	0.001uF	$\pm(5.0\%+5dgt)$		
	50uF	0.001uF			
	100uF	0.1uF	1		
XA			/·Frequency is		

*Accuracy assurance of ACV.Frequency is limited to sine wave.



* 1+1 Structure : 1 pce. of eyepiece and 1 pce. of objective lens

* 1+2 Structure : Achromatic Lens - combination of different refractive lens minimizes chromatic aberration.

* 5-fold lens : superior to achromatic lens in aspect of no aberration and creates clearer image.





SL-80

SL-81

SL-82

SL-83

1.8

2.3

2.7

3.5

SL-85

SL-86

SL-87

SL-88

ESD HEMICALS

 The size of all the replacement lens is common and suitable for any head loupes.

1.8

2.3

2.7

3.5

ESD Products and Chemicals





ZC-44~49 STATIC CONDUCTIVE GLOVES

- Surface resistivity : $10^5 \sim 10^6 \Omega$ sq.(Finger) $10^7 \Omega$ sq.(Palm) ldeal for clean room, assembly of electronic devices, handling of
- plastic products, etc. • Copper sulfide mixed with acryl/nylon creates an excellent conductive effect (Finger Part)
- Seamless and dust-free mono-filament
- Chemical dyeing of conductive element features less reduction of conductivity withstanding repeated washing
- Material : Fabric Nylon 90% Acryl 10%
 - : Coating Polyurethane Resin



(mm)

A×B

80×210

85×220

90×230

S

Μ

L





MANTI-STATIC GLOVES ZC-51~56

- Surface resistivity : $10^6 \sim 10^8 \Omega$ sq.
- Ideal for any work in the facility where anti-static should be controlled
- Seamless and dust-free mono-filament
- Washable with ordinary detergent
- Material : Fabric Nylon 75% Acryl 25%
 - : Coating Polyurethane Resin







Fingerti	p Coati	ng (mm)
Item No.	Size	A×B
ZC-51	S	75×190
ZC-52	М	88×200
ZC-53	L	89×215

V''' B	Pa
	Item
	ZC-
	ZC-
A	ZC-

Palm C	g (mm)	
Item No.	Size	A×B
ZC-54	S	77×210
ZC-55	М	90×220
ZC-56	L	95×230

ZC-38~43

Fingertip Coating (mm)

S

Μ

L

A×B

72×185

83×190

85×200

Item No. Size

ZC-44

ZC-45

ZC-46

ZC-49

- Flexible & comfortable gloves made of elastic and breathable nylon fiber
- Ideal for use in clean room and handling of C.R.T., electric bulb. compact disc, glass, etc.
- Seamless and dust-free mono-filament
- Non-slip coating for accurate assembly work
- Washable with ordinary detergent
- Material : Fabric Wooly Nylon
 - : Coating Polyurethane Resin





Fingertip Coating (mm)				
Item No.	Size	A×B		
ZC-38	S	77×185		
ZC-39	М	90×190		
ZC-40	L	90×200		



I

Palm Coating (mm			
Item No.	Size	A×B	
ZC-41	S	80×210	
ZC-42	М	90×220	
ZC-43	L	95×230	

ZC-82-84-86 STATIC CONDUCTIVE BAG

- ${\ensuremath{\bullet}}$ Surface resistivity : $10^4\Omega$ or less
- Color : Black
- Thickness : 0.05mm Material : Polyethylene (Carbon contained)



- ZC-92·94·96 **MANTI-STATIC BAG** Surface resistivity : 10¹¹Ω or less
- Color : Blue Transparent
- Thickness: 0.05mm
- Material : Polyethylene

Item No.	Size(mm)	Package
ZC-92	100×150	100pcs.
ZC-94	200×300	100pcs.
ZC-96	300×450	100pcs.

Palm Coating Item No. Size ZC-47 ZC-48



RUST REMOVER

ZC-28

Amazing - How quickly it cleans rust off!

- Since it is a neutral liquid, you can work safely (it does not contain acid or alkali).
- Rust on small components, such as rusted screws, can be removed in seconds.
- No need to scrub.



SAFE:Neutral liquid Less harmful to bare skin (unlike acid or alkali)



Before

PRODUCT VIDEO











ZC-19

- Compact-sized and handy oiler
- Nozzle extendable (60mm-long approx.) for oiling at hard-to-reach area
- Capacity: 20ml
- Material: PE (Bottle/Cap), Brass (Nozzle)
- Usage: Oil, Water, Cleaning fluid, etc.

How to use

- ① Extend nozzle upward.
- Unscrew plastic cap.
- 3 Remove packing inside.
- ④ Pour oil in bottle.
- (5) Fasten the packing and the cap with nozzle in order.
- % Keep the bottle upright in storage.



Machinery maintenance Lubrication





D

ITEM No. CODE No. ITEM PAGE 49 DA-01 1001 Alignment Screwdriver 1002 Alignment Screwdriver 49 DA-02 DA-03 Discon. Alignment Screwdriver DA-40 1040 Alignment Screwdriver 49 DA**-**48 1048 Ceramic Alignment Screwdriver 48 DA-50 1050 Ceramic Alignment Screwdriver 48 DA-51 1051 Ceramic Alignment Screwdriver 48 DA-52 1052 Ceramic Alignment Screwdriver 48 1053 Ceramic Alignment Screwdriver DA-53 48 DA-54 1054 Ceramic Alignment Screwdriver 48 DA-55 1055 Ceramic Alignment Screwdriver 48 DA-56 1056 Ceramic Alignment Screwdriver 48 DA-57 1057 Ceramic Alignment Screwdriver 48 DA-58 1058 Ceramic Alignment Screwdriver 48 DA-59 1059 Ceramic Alignment Screwdriver 48 DA-72 1072 Ceramic Alignment Screwdriver 48 DA-73 1073 Ceramic Alignment Screwdriver 48 DA-74 1074 Ceramic Alignment Screwdriver 48 DA-75 | 1075 | Ceramic Alignment Screwdriver | 48 DA-76 1076 Ceramic Alignment Screwdriver 48 DA-77 1077 Ceramic Alignment Screwdriver 48 DA-78 1078 Ceramic Alignment Screwdriver 48 DA-79 1079 Ceramic Alignment Screwdriver 48 1081 Ceramic Alignment Screwdriver DA-81 49 DA-82 1082 Ceramic Alignment Screwdriver 49 DA-83 1083 Ceramic Alignment Screwdriver 49 1084 Ceramic Alignment Screwdriver 49 DA-84 1085 Ceramic Alignment Screwdriver 49 DA-85 DA-86 1086 Ceramic Alignment Screwdriver 49 1087 Ceramic Alignment Screwdriver DA-87 49 DA-88 1088 Ceramic Alignment Screwdriver 49 DAP-01 0601 Pentalobe Driver 43 DAT-02 0602 Hex-Lobe Driver 43 DB-15 1315 Ball Point Driver 45 1320 Ball Point Driver DB-20 45 DB-25 1325 Ball Point Driver 45 DB-30 1330 Ball Point Driver 45 DB-40 1340 Ball Point Driver 45 DB-50 Discon. Ball Point Driver 8 DBZ 50B 1448 Handle Grip for DBZ DBZ-51 1451 Replacement Bit for DBZ-60G 9 DBZ 52 1452 Replacement Bit for DBZ 60G 9 DBZ-53 1453 Optional Bit for DBZ-60G 9 DBZ-54 1465 Optional Bit for DBZ-60G 9 DBZ-56 1466 Optional Bit for DBZ-60G 9 DBZ-57 1467 Optional Bit for DBZ-60G 9 DBZ-60G 1462 Rapid Screw Extractor 8 DB7-62 1471 Optional Bit for DB7-60G 9 DBZ-63 1472 Optional Bit for DBZ-60G 9 DBZ-64 1473 Optional Bit for DBZ-60G 9 DBZ-65 1474 Optional Bit for DBZ-60G 9 DG-01 |1101 Pro Grip Driver 38 DG-02 1102 Pro Grip Driver 38 DG-03 1103 Pro Grip Driver 38 DG-04 1104 Pro Grip Driver 38 1105 Cushion Driver DG-05 38 DG-08 1108 Master Grip Driver 38 1109 Master Grip Drive 38 DG-09 DG-11 1111 Extra Long Grip Driver 38 DG-12 1112 Extra Long Grip Driver 38 DG-13 1113 Extra Long Grip Driver 38 DG-14 1114 Extra Long Grip Driver 38 DG-21 1121 Mini Soft Driver 39 1122 Mini Soft Driver 39 DG-22 DG-23 1123 Mini Soft Driver 39 39 DG-24 1124 Mini Soft Driver DH-15 1515 Hex Driver 45 DH-20 1520 Hex Driver 45 DH-25 1525 Hex Driver 45 DH-30 1530 Hex Driver 45 DH-40 1540 Hex Driver 45 DH-50 1550 Hex Driver 45 DH-60 Discon. Hex Driver DJ-01 Discon. Plug Jack Driver Discon. Plug Jack Driver DJ-02 DJ-03 1763 Plug Jack Driver 44 1764 Plug Jack Driver 44 DJ**-**04 DJ-05 Discon. Plug Jack Driver 46 DK-01 1601 Hex Driver Set DK-02 1602 Hex Driver Set 46 DK-03 1603 Ball Point Driver Set 46 DK-04 1604 Nut Driver Set 46 1605 Interchangeable Driver Set 47 DK-05 47 DK-05F Interchangeable Driver Set 1606 Interchangeable Driver Set 47 DK-06 47 Interchangeable Driver Set DK-06F

DK-07 DK-08			
	Discon.	Interchangeable Driver Set	\succ
	1608	Interchangeable Driver Set	47
DK-10	Discon.		\sim
DK-13		Reversible Precision Dr. Set	45
DK-14	1614	Nut Driver Set	46
DK-16	1616	Mini Soft Driver Set	39
DK-20	Discon	⊕Precision Driver Set	\sim
DK-21		Precision Driver	ĸ
			ĸ
DK-22		Precision Driver	\geq
DK-23	Discon.	Precision Driver	\bowtie
DK-24	Discon.	Precision Driver	\sim
DK-25		Precision Driver	ĸ
			КЭ
DK-26		Precision Driver	ĸ
DK-30	Discon.	⊖Precision Driver Set	\succ
DK-31	Discon.	Precision Driver	\sim
DK-32		Precision Driver	ĸ
			ĸ
DK-33		Precision Driver	K
DK-34	Discon.	Precision Driver	\bowtie
DK-35	Discon.	Precision Driver	\sim
DK-36	Discon	Precision Driver	K
			39
DK-50		Reversible Driver Set	
DK-51	1651	Reversible Driver	39
DK-52	1652	Reversible Driver	39
DK-53	1653	Reversible Driver	39
			K,
DK-60		⊕⊖Precision Driver Set	ĸ
DK-80		Computer Driver Set	\bowtie
DK-81	Discon.	Mobile Phone Driver Set	\bowtie
DK-82		Mobile Phone Driver Set	Þ
DK-90	1690	Ceramic Alignment Driver Set	48
			-
DK-91	1691	Ceramic Alignment Driver Set	49
DKD-01	1781	Circuit Testing Driver	45
DKD-02		Circuit Testing Driver	\sim
DKD-02	1783	Led Circuit Tester	45
DM-20	1180		47
DM - 21	1181	Precision Driver	47
DM-22	1182	⊕Precision Driver	47
DM-23	1183	Precision Driver	47
DM - 24	1184		47
DM-25	1185	Precision Driver	47
DM-26	1186	⊕Precision Driver	47
DM-30	1190	⊖Precision Driver Set	47
DM-31	1191	⊖Precision Driver	47
DM-32	1192	⊖Precision Driver	47
DM-33	1193	⊖Precision Driver	47
DM-34	1194	⊖Precision Driver	47
DM-35	1195	⊖Precision Driver	47
DM-36	1196	⊖Precision Driver	47
DM-60	1200	⊕⊖Precision Driver Set	47
DN-01	1701	Nut Driver	44
DN-02	1702	Nut Driver	44
DN-03	1703	Nut Driver	44
DN-04	1704	Nut Driver	44
DN-05	1705	Nut Driver	44
DN-06	1706	Nut Driver	44
DN-07	1707	Nut Driver	44
DN-08	1708	Nut Driver	44
DN-09	1709	Nut Driver	44
DN-10	1710	Nut Driver	44
DN-12	1712	Nut Driver	44
DNC-55T	0455	Nut Catching Driver	44
DNC-57T	0470	Nut Catching Driver	44
DNC-65T	0465	Nut Catching Driver	
			44
	Discor	Pro Nut Driver	44
DNP-05	Discon.		
DNP-05 DNP-07	Discon.	Pro Nut Driver	
DNP-05 DNP-07 DNP-08	Discon.		
DNP-05 DNP-07	Discon. Discon.	Pro Nut Driver	
DNP-05 DNP-07 DNP-08 DNP-10	Discon. Discon. Discon.	Pro Nut Driver Pro Nut Driver Pro Nut Driver	
DNP-05 DNP-07 DNP-08 DNP-10 DP-03	Discon. Discon. Discon. 1803	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕	
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13	Discon. Discon. Discon. 1803 1813	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊝	38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24	Discon. Discon. 1803 1813 1824	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊝ Pro-Use Driver⊕	38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13	Discon. Discon. Discon. 1803 1813	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊝	38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24	Discon. Discon. 1803 1813 1824	Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊖ Pro-Use Driver⊕ Pro-Use Driver⊕	38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-44	Discon. Discon. 1803 1813 1824 1834 1844	Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕	38 38 38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-24 DP-34 DP-44 DP-54	Discon. Discon. 1803 1813 1824 1824 1834 1844 1854	Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕	38 38 38 38 38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64	Discon. Discon. 1803 1813 1824 1824 1834 1844 1854 1864	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕	38 38 38 38 38 38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-24 DP-34 DP-44 DP-54	Discon. Discon. 1803 1813 1824 1824 1834 1844 1854	Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕	38 38 38 38 38 38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64	Discon. Discon. 1803 1813 1824 1834 1834 1844 1854 1864	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊝ Pro-Use Driver⊖ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕	38 38 38 38 38 38 38 38 38 38
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64 DR-03 DR-04	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊖ Pro-Use Driver⊖ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set	38 38 38 38 38 38 38 38 38 40 40
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64 DR-03 DR-04 DR-05	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205	Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver	38 38 38 38 38 38 38 38 38 38 40 40
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-24 DP-34 DP-44 DP-54 DP-64 DP-64 DR-03 DR-04 DR-05 DR-06	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver with Bit Set	38 38 38 38 38 38 38 38 38 38 40 40 40
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-44 DP-54 DP-64 DR-03 DR-04 DR-05	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205	Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver	38 38 38 38 38 38 38 38 38 38 40 40 40
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-54 DP-54 DR-03 DR-03 DR-03 DR-04 DR-05 DR-05 DR-05	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206 1207	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver with Bit Set Twin Wrench Driver Set	388 388 388 388 388 388 388 388 388 388
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-54 DP-64 DR-05 DR-06 DR-06 DR-06 DR-07 DR-08	Discon. Discon. 1803 1813 1824 1834 1834 1854 1864 1203 1204 1205 1206 1207 1208	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver with Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set(Flex.)	38 38 38 38 38 38 38 38 38 38 38 38 38 3
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-34 DP-54 DP-54 DP-64 DR-03 DR-04 DR-05 DR-05 DR-05 DR-07 DR-08 DR-07	Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1205 1204 1205 1206 1207 1208 1210	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver With Bit Set Twin Wrench Driver Set(Flex.) Bit Set	38 38 38 38 38 38 38 38 38 38 38 38 38 3
DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-03 DP-24 DP-34 DP-34 DP-44 DR-03 DR-04 DR-03 DR-04 DR-05 DR-06 DR-07 DR-06 DR-07 DR-08 DR-10 DR-11	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206 1207 1208 1210	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver with Bit Set Ratchet Stubby Driver Set(Flex.) Bit Set	38 38 38 38 38 38 38 38 38 38 38 38 38 3
DNP-05 DNP-07 DNP-08 DNP-10 DP-03 DP-13 DP-24 DP-34 DP-34 DP-34 DP-54 DP-54 DP-64 DR-03 DR-04 DR-05 DR-05 DR-07 DR-08 DR-07	Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1205 1204 1205 1206 1207 1208 1210	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver with Bit Set Ratchet Stubby Driver Set(Flex.) Bit Set	38 38 38 38 38 38 38 38 38 38 38 38 38 3
DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-13 DP-24 DP-24 DP-24 DP-24 DP-24 DP-64 DP-64 DR-03 DR-04 DR-05 DR-06 DR-06 DR-06 DR-07 DR-08 DR-00 DR-11 DR-11	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206 1207 1208 1210 1211 Discon.	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver with Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set Bit Set Bit Set	38 38 38 38 38 38 38 38 38 38 38 38 38 40 40 40 40 40 40 40 40 40 40 40 40 40
DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-24 DP-34 DP-34 DP-34 DP-44 DP-54 DR-04 DR-04 DR-05 DR-04 DR-05 DR-06 DR-07 DR-06 DR-07 DR-08 DR-07 DR-11 DR-11 DR-11 DR-13	Discon. Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1864 1203 1204 1205 1206 1207 1208 1210 1211 Discon. 1215	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver With Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set Bit Set Bit Set Bit Set	38 38 38 38 38 38 38 38 38 38 38 38 38 3
DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-24 DP-34 DP-34 DP-54 DP-54 DP-54 DR-04 DR-05 DR-04 DR-05 DR-06 DR-07 DR-08 DR-07 DR-08 DR-07 DR-08 DR-10 DR-11 DR-11 DR-11 DR-15 DR-16	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1203 1204 1205 1206 1207 1208 1210 1211 Discon. 1215 1216	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver With Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set(Flex.) Bit Set Bit Set Bit Set Bit Set	38 38 38 38 38 38 40 40 40 40 40 40 41 41 41
DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-24 DP-34 DP-34 DP-34 DP-44 DP-54 DR-04 DR-04 DR-05 DR-04 DR-05 DR-06 DR-07 DR-06 DR-07 DR-08 DR-07 DR-11 DR-11 DR-11 DR-13	Discon. Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1864 1203 1204 1205 1206 1207 1208 1210 1211 Discon. 1215	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver With Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set Bit Set Bit Set Bit Set	38 38 38 38 38 38 38 38 38 38 38 38 38 3
DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-34 DP-34 DP-34 DP-54 DP-64 DR-05 DR-06 DR-07 DR-06 DR-07 DR-08 DR-07 DR-08 DR-11 DR-11 DR-11 DR-14 DR-16 DR-17	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1864 1205 1206 1205 1206 1207 1208 1210 1211 Discon. 1215 1216 1217	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver with Bit Set Ratchet Stubby Driver Set(Flex.) Bit Set Bit Set Bit Set Bit Set Bit Set Bit Set	38 38 38 38 38 38 38 38 38 38 38 38 38 3
DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-03 DP-24 DP-34 DP-34 DP-54 DP-64 DR-05 DR-06 DR-05 DR-06 DR-05 DR-06 DR-07 DR-08 DR-11 DR-14 DR-14 DR-15 DR-16 DR-17 DR-18	Discon. Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1864 1203 1204 1205 1206 1207 1208 1210 1211 Discon. 1215 1216 1217 1218	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver with Bit Set Twin Wrench Driver Set(Flex.) Bit Set	38 38 38 38 38 38 38 38 38 38 38 38 38 3
DNP-05 DNP-07 DNP-08 DP-03 DP-03 DP-03 DP-24 DP-34 DP-34 DP-64 DR-03 DR-04 DR-05 DR-06 DR-07 DR-06 DR-07 DR-08 DR-00 DR-11 DR-14 DR-14 DR-15 DR-16 DR-17 DR-18 DR-18 DR-18 DR-18	Discon. Discon. 1803 1813 1824 1834 1844 1854 1864 1205 1206 1207 1206 1207 1208 1210 1211 Discon. 1215 1216 1217 1218 1250	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver with Bit Set Ratchet Stubby Driver Set(Flex,) Bit Set Bit	388 388 388 388 388 388 388 388 388 388
DNP-05 DNP-07 DNP-08 DP-13 DP-13 DP-24 DP-24 DP-24 DP-24 DP-24 DP-24 DP-24 DP-24 DR-03 DR-04 DR-03 DR-06 DR-06 DR-06 DR-06 DR-06 DR-07 DR-08 DR-00 DR-11 DR-11 DR-115 DR-16 DR-17 DR-18 DR-10 DR-17 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-18 DR-10 DR-13 DR-10 DR-13 DR-10 DR-13 DR-10 DR-13 DR-10 DR	Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1205 1204 1205 1206 1207 1208 1206 1207 1208 1210 1211 Discon. 1215 1216 1217 1218 1250 1251	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver with Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set Ratchet Stubby Driver Set Ratchet Stubby Driver Set Bit Set Bi	388 388 388 388 388 388 388 388 388 388
DNP-05 DNP-07 DNP-08 DP-13 DP-13 DP-24 DP-34 DP-34 DP-44 DP-64 DP-64 DR-05 DR-06 DR-07 DR-06 DR-07 DR-06 DR-07 DR-08 DR-10 DR-11 DR-11 DR-11 DR-11 DR-11 DR-11 DR-16 DR-17 DR-18 DR-52	Discon. Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1203 1204 1205 1206 1207 1206 1207 1208 1210 1211 Discon. 1215 1216 1217 1218 1251 1251	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver with Bit Set Twin Wrench Driver Set Bit Set Bit Set Bit Set Bit Set Bit Set Bit Set Dit Set Set Set Bit Set Dit Se	388 388 388 388 388 388 388 388 388 388
DNP-05 DNP-07 DNP-08 DP-13 DP-13 DP-24 DP-24 DP-24 DP-24 DP-24 DP-24 DP-24 DP-24 DR-03 DR-04 DR-03 DR-06 DR-06 DR-06 DR-06 DR-06 DR-07 DR-08 DR-00 DR-11 DR-11 DR-115 DR-16 DR-17 DR-18 DR-10 DR-17 DR-18 DR-10 DR-13	Discon. Discon. 1803 1813 1824 1834 1844 1854 1854 1205 1204 1205 1206 1207 1208 1206 1207 1208 1210 1211 Discon. 1215 1216 1217 1218 1250 1251	Pro Nut Driver Pro Nut Driver Pro Nut Driver Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Pro-Use Driver⊕ Ratchet Stubby Driver Ratchet Stubby Driver Ratchet Stubby Driver Set Offset Ratchet Driver Offset Ratchet Driver with Bit Set Twin Wrench Driver Set Ratchet Stubby Driver Set Ratchet Stubby Driver Set Ratchet Stubby Driver Set Bit Set Bi	388 388 388 388 388 388 388 388 388 388

INDEX MODEL/ITEM CODE 85

DR-55 DR-56 DS-03			
	1255	Mini Offset Ratchet	41
DS-03	1256	7-in-1 Angled Ratchet	41
	1903	Standard Driver⊕	38
DS-12	1912	Standard Driver⊖	38
DS-13	1913	Standard Driver⊖	38
DS-14	1914	Standard Driver⊝	38
DS-14 DS-16	Discon.	Standard Driver⊖	\bowtie
			\bigcirc
DS-23	1923	Standard Driver⊕	38
DS-24	1924	Standard Driver⊕	38
DS-33	1933	Standard Driver⊖	38
DS-34	1934	Standard Driver⊖	38
DS-44	1944	Standard Driver⊕	38
DS-46	1946	Standard Driver⊕	38
DS-54	1954	Standard Driver⊖	38
DS-64	1964	Standard Driver⊕	38
DS-76	Discon.	Standard Driver⊖	\boxtimes
DS-85	Discon.	Standard Driver⊕	\bowtie
DST-01	1581	Stubby Driver	39
DST-02	1582	Stubby Driver	39
DST-02	1585	Combination Reversible Stubby Driver	39
DST-05	1586	Miniature Reversible Driver	39
DST-07	1587	Miniature Reversible Driver	39
DT-02	0502	Mobile Phone Driver	43
DT-04	0504	Mobile Phone Driver	43
DT-05	0505	Mobile Phone Driver	43
DT-06	0506	Mobile Phone Driver	43
DT-08	0548	Mobile Phone Driver	43
DT-10	0510	Mobile Phone Driver	43
DT-15	0515	Mobile Phone Driver	43
DT-20	0520	Mobile Phone Driver	43
DTC-20	0570	Mobile Phone Driver	43
DTC-27	0577	Mobile Phone Driver	43
	Discon.	Mobile Phone Driver	$\overline{\mathbf{X}}$
DTP-03	0543	Pentalobe Driver	43
DTP-05	0545	Pentalobe Driver	43
	0545	Mobile Phone Driver	
DTX-04			43
DTX-04 DTX-08	0508	Mobile Phone Driver	43
DTX-04 DTX-08 DTY-02	0508 0582	Mobile Phone Driver Mobile Phone Driver	43 43
DTX-04 DTX-08 DTY-02 DTY-03	0508 0582 0583	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver	43 43 43
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01	0508 0582 0583 0901	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02	0508 0582 0583 0901 0902	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Miniature Driver	43 43 43
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03	0508 0582 0583 0901 0902 Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Miniature Driver Cross Nut Driver	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03 DZ-03 DZ-04	0508 0582 0583 0901 0902 Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Cross Nut Driver Cross Nut Driver	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-02 DZ-03 DZ-04 DZ-05	0508 0582 0583 0901 0902 Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Set	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03 DZ-03 DZ-04	0508 0582 0583 0901 0902 Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Cross Nut Driver Cross Nut Driver	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-02 DZ-03 DZ-04 DZ-05	0508 0582 0583 0901 0902 Discon. Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Set	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03 DZ-03 DZ-04 DZ-05 DZ-06	0508 0582 0583 0901 0902 Discon. Discon. Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Set Offset Driver	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03 DZ-04 DZ-05 DZ-06 DZ-07 DZ-08	0508 0582 0583 0901 0902 Discon. Discon. Discon. Discon. Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Offset Driver Offset Driver Offset Driver Offset Driver Set	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03 DZ-04 DZ-05 DZ-06 DZ-07 DZ-08 DZ-11	0508 0582 0583 0901 0902 Discon. Discon. Discon. Discon. Discon. Discon.	Mobile Phone Driver Mobile Phone Driver Miniature Driver Miniature Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Set Offset Driver Offset Driver Offset Driver Set Flexible Shaft Driver	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03 DZ-04 DZ-05 DZ-06 DZ-07 DZ-08 DZ-07 DZ-08 DZ-11 DZ-12	0508 0582 0901 0902 Discon. Discon. Discon. Discon. Discon. Discon. Discon.	Mobile Phone Driver Mobile Phone Driver Miniature Driver Miniature Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Set Offset Driver Offset Driver Offset Driver Set Flexible Shaft Driver Flexible Shaft Driver	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03 DZ-04 DZ-05 DZ-06 DZ-06 DZ-07 DZ-08 DZ-11 DZ-12 DZ-21	0508 0582 0901 0902 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Set Offset Driver Offset Driver Set Flexible Shaft Driver Flexible Shaft Driver Screw Holding Driver	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03 DZ-04 DZ-05 DZ-05 DZ-06 DZ-07 DZ-08 DZ-11 DZ-12 DZ-12 DZ-12 DZ-23	0508 0582 0901 0902 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Set Offset Driver Offset Driver Offset Driver Set Flexible Shaft Driver Screw Holding Driver Screw Holding Driver	43 43 43 39
DTX-04 DTX-08 DTY-02 DTY-03 DZ-01 DZ-02 DZ-03 DZ-04 DZ-05 DZ-06 DZ-06 DZ-07 DZ-08 DZ-11 DZ-12 DZ-21	0508 0582 0901 0902 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon.	Mobile Phone Driver Mobile Phone Driver Mobile Phone Driver Miniature Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Cross Nut Driver Set Offset Driver Offset Driver Offset Driver Set Flexible Shaft Driver Screw Holding Driver	43 43 43 39



ITEM No.	CODE No.	ITEM	PAGE
KA-15	7115	ABS Attache Case	66
KA - 22	7122	Attache Case (Wide Type)	65
KA-30	7130	Aluminium Case	67
KA-42	7142	Aluminium Case	67
KA-43	7143	Aluminium Case	67
KA - 44	7144	Aluminium Case	67
KA-50	7150	Aluminium Case	66
KA-51	7151	Aluminium Case	66
KA - 54	7154	Aluminium Attache Case	67
KA-57	7157	Aluminium Case	66
KA-91	Discon.	Aluminium Case	\bowtie
KAC-30	7230	Aluminium Case for Clean Room	67
KAC-42	7242	Aluminium Case for Clean Room	67
KD-01	Discon.	Panel Kits for Field Maintenance	\bowtie
KD-02	Discon.	Panel Kits for Field Maintenance	\bowtie
KD-03	Discon.	Panel Kits for Field Maintenance	\bowtie
KD-04	Discon.	Panel Kits for Electronics Work	\bowtie
KD-05	Discon.	Panel Kits for Electronics Work	\bowtie
KD-06	Discon.	Panel Kits for Electronics Work	\boxtimes
KDE-01	Discon.	Panel	\bowtie
KDE-02	Discon.	Panel	\bowtie
KDE-03	Discon.	Panel	\bowtie
KDE-04	Discon.	Panel	\bowtie
KDE-05	Discon.	Panel	\bowtie
KDE-06	Discon.	Panel	\bowtie
KP-01	7401	Parts Box	68
KP-02	7402	Parts Box	68
KP-02K	7408	Parts Box (Heavy-Duty Type)	68
KP-03	7403	Parts Box	68
KP-03K	7409	Parts Box (Heavy-Duty Type)	68
KP-04	7404	Miniature Box	68
KP-51	7451	Ic Storage Box	68

KP-52 7452 Ic Storage Box KP-95 7495 Dividing Plate KP-96 7496 Dividing Plate KP-97 7497 Dividing Plate KS-01 7001 My Kit KS-02 7002 My Kit KS-04 7004 Tool Kit KS-05 7005 Maintenance Kit KS-06 7006 Maintenance Kit KS-08 7038 Electronics Kit KS-09 Discon. Tool Kit KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit	
KP-96 7496 Dividing Plate KP-97 7497 Dividing Plate KS-01 7001 My Kit KS-02 7002 My Kit KS-03 7003 Tool Kit KS-04 7004 Tool Kit KS-05 7005 Maintenance Kit KS-06 7006 Maintenance Kit KS-08 7038 Electronics Kit KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit	68 60 62 62 61 61
KP-97 7497 Dividing Plate KS-01 7001 My Kit KS-02 7002 My Kit KS-03 7003 Tool Kit KS-04 7004 Tool Kit KS-05 7005 Maintenance Kit KS-06 7006 Maintenance Kit KS-06 7008 Electronics Kit KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	68 60 62 62 61 61
KS-01 7001 My Kit KS-02 7002 My Kit KS-03 7003 Tool Kit KS-04 7004 Tool Kit KS-05 7005 Maintenance Kit KS-06 7006 Maintenance Kit KS-06 Discon. Maintenance Kit KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	60 62 62 61 61
KS-02 7002 My Kit KS-03 7003 Tool Kit KS-04 7004 Tool Kit KS-05 7005 Maintenance Kit KS-06 7006 Maintenance Kit KS-06 Discon. Maintenance Kit KS-08 7038 Electronics Kit KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	60 62 61 61
KS-03 7003 Tool Kit KS-04 7004 Tool Kit KS-05 7005 Maintenance Kit KS-06 7006 Maintenance Kit KS-06 Discon Maintenance Kit KS-08 7038 Electronics Kit KS-09 Discon Tool Kit KS-10 Discon Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	62 62 61 61
KS-04 7004 Tool Kit KS-05 7005 Maintenance Kit KS-06 7006 Maintenance Kit KS-08 Discon. Maintenance Kit KS-09 Discon. Tool Kit KS-09 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	62 61 61
KS-05 7005 Maintenance Kit KS-06 7006 Maintenance Kit KS-06R Discon. Maintenance Kit KS-08 7038 Electronics Kit KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	61 61
KS-06 7006 Maintenance Kit KS-06R Discon. Maintenance Kit KS-08 7038 Electronics Kit KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	61
KS-06R Discon. Maintenance Kit KS-08 7038 Electronics Kit KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	\ge
KS-08 7038 Electronics Kit KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	
KS-09 Discon. Tool Kit KS-10 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	62
KS-10 Discon. Tool Kit KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	\ge
KS-11 7011 Tool Kit KS-12 7012 Attache Tool Kit	\geq
KS-12 7012 Attache Tool Kit	
	64
	64
KS-14 7014 Electronics Kit	63
KS-17 Discon. Tool Kit	\bowtie
KS-18 Discon. Tool Kit	\bowtie
KS-20 7020 My Kit	60
KS-27 7027 My Kit	60
KS-28 7028 Tool Kit	63
KS-30 Discon. Attache Tool Kit	\bowtie
KS-31 Discon. Attache Tool Kit	\bowtie
KS-34 7034 Screw Emergency Tool Kit	7
KSC-04 7504 Tool Kit	62
KSC-05 7505 Maintenance Kit	61
KSC-06 7506 Maintenance Kit	61
KSE-03 7053 Tool Case	62
KSE-04 7054 Tool Case	62
KSE-06 7056 Tool Case	61
KSE-09 Discon. Tool Case with Panel	\bowtie
KSE-10 Discon. Tool Case with Panel	\bowtie
KSE-11 7061 Tool Case with Panel	64
KSE-12 7062 Attache Case with Empty Panel	65
KSE-17 Discon. Tool Case with Empty Panel	\bowtie
KSE-18 Discon. Tool Case with Empty Panel	\bowtie
KSE-28 7078 Eva Tool Case with Panel	63
KSE-30 Discon. Attache Case with Empty Panel	\bowtie
KSE-31 Discon Attache Case with Empty Panel	\bowtie



ITEM No.	CODE No.	ITEM	PAGE
NK-15	3115	Diagonal Nippers	18
NK-16	3116	Diagonal Nippers	18
NK-25	3125	Diagonal Nippers	18
NK-26	3126	Diagonal Nippers	18
NK-36	3136	Heavy Duty Diagonal Nippers	18
NN-45	3145	Slant Edge Nippers	19
NN-46	3146	Slant Edge Nippers	19
NN-56	3156	Slant Edge Nippers	19
NP-03	3083	Plastic Nippers	19
NP-04	3084	Plastic Nippers	19
NP-05	3085	Plastic Nippers	19
NS-03	3003	Micro Nippers	16
NS-04	3004	Micro Nippers	16
NS-06	3006	Micro Nippers	16
NSX-04	3001	Micro Nippers	16
NZ-03	3093	Chip Cutter	17
NZ-05	3095	Chip Cutter	17
NZ-12	3098	Parallel Nippers	17
NZ-13	3099	Parallel Nippers	17



ITEM No.	CODE No.	ITEM	PAGE
PA-01	3501	Wire Pliers	25
PA-02	Discon.	Wire Pliers	\bowtie
PA-03	3503	Wire Pliers	25
PA-04	Discon.	Wire Pliers	\bowtie
PA-05	3505	Wire Stripper	31
PA-06	3506	Wire Stripper	31
PA-07	3507	Wire Stripper	31
PA-08	Discon.	Connector Pliers	\bowtie
PA-09	3509	Micro Connector Pliers	26
PA-11	3511	Wire Stripper	28
PA-12	Discon.	Wire Stripper	\bowtie
PA-13	Discon.	Wire Stripper	\bowtie
PA-14	3514	Wire Stripper	31
PA-15	Discon.	Connector Pliers	\bowtie
PA-20	3520	Universal Crimping Pliers	26
PA-21	3521	Universal Crimping Pliers	26
PA-30	3530	Wire Stripper	28
PA-90	3590	Strip Gauge	31
PA-91	3591	Terminal Set	28
PA-92	3592	Terminal Set	28

	3593	Terminal Set	28
		Handy Crimp Tool Complete Set	F,
			k
PAD-02		Handy Crimp Tool Complete Set	28
PAD-10	3531	Handy Crimp Tool Frame	27
PAD-11	3532	Handy Crimp Tool (S)	27
PAD-11S		Interchangeable Die Set (S)	27
PAD-12		Handy Crimp Tool (M)	27
PAD-12S	3536	Interchangeable Die Set (M)	27
PAD-13	3534	Handy Crimp Tool (L)	27
PAD-13S		Interchangeable Die Set (L)	27
			5
PAR-20	-	Ratchet Crimping Connector Pliers	\bowtie
PAS-30		Connector Extractor	29
PAS-31	3571	Connector Extractor	29
PAS-32		Connector Extractor	29
PAS-33	3573	Connector Extractor	29
PAS-34	3574	Connector Extractor	29
PC-06			
		Combination Pliers	23
PC-08	3388	Combination Pliers	23
PD-06	3376	Side Cutting Pliers	22
PD-07		Side Cutting Pliers	22
PD-08		Side Cutting Pliers	22
PDS-01	3544	Screw Removal Tool Kit	7
PGT-03	3543	GT Pack (Paulownia Box)	7
PH-01			30
		Lock Holder	
PH-02		Lock Holder	30
PH-03	3403	Lock Holder	30
PH-04		Lock Holder	30
			K,
PH-05		Lock Holder	ĸ
PH-06	Discon.	Lock Holder	\bowtie
PH-31		Electronic Snips	\sim
PH-32			\Leftrightarrow
		Electronic Snips	Ŕ
PH-33	3433	Electronic Snips	14
PH-34		Electronic Snips	14
PH-50		Combination Scissors	13
			13
PH-51		Combination Scissors	\bowtie
PH-55	3455	Combination Scissors GT	13
PH-56G		Combination Scissors MP	12
PH-56R		Combination Scissors MP	12
PH-56Y	3462	Combination Scissors MP	12
PH-57	3457	Combination Scissors DP	11
PH-57G		Combination Scissors DP	11
PH-57R		Combination Scissors DP	11
PH-57Y	3460	Combination Scissors DP	11
PK-50	3550	Cable Shears	14
			14
PK-51	3551	Cable Shears	
PL-05	3355	Long Flat Nose Pliers	22
PL-06	3356	Long Flat Nose Pliers	22
		Round Nose Pliers	22
PR-15		Long Nose Pliers	22
PR-16		Long Nose Pliers	22
PR-26	3326	Long Nose Pliers	22
PR-36		Long Nose Pliers	22
PR-46		Needle Nose Pliers	22
PS-01	3201	Miniature Long Nose Pliers	21
PS-03	3203	Miniature Needle Nose Pliers	21
PS-04		Miniature Flat Nose Pliers	21
			1
		S/S Long Nose Pliers	ĸ
		S/S Needle Nose Pliers	arphi
		S/S Flat Nose Pliers(Curved)	>
PT-01	3601	Tweezers(AA)	33
PT-02	3602	Tweezers(RR)	33
PT-03	3603	Tweezers(MM)	33
PT-04	3604	Tweezers(I)	33
PT-05		Tweezers(GG)	33
		Tweezers(J)	33
PT-06		11002010(0)	33
PT-06 PT-07	3606 3607	Tweezers(TS)	
PT-07	3607	Tweezers(TS)	1.3.2
PT-07 PT-08	3607 3608	Tweezers(TS) Tweezers	
PT-07 PT-08 PT-09	3607 3608 3609	Tweezers(TS) Tweezers Tweezers	33
PT-07 PT-08	3607 3608	Tweezers(TS) Tweezers	33
PT-07 PT-08 PT-09	3607 3608 3609	Tweezers(TS) Tweezers Tweezers Tweezers	33 33
PT-07 PT-08 PT-09 PT-10 PT-11	3607 3608 3609 3610 3611	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers	33 33 33
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12	3607 3608 3609 3610 3611 3612	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS)	33 33 33 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13	3607 3608 3609 3610 3611 3612 3613	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers	33 33 33 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12	3607 3608 3609 3610 3611 3612	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS)	33 33 33 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14	3607 3608 3609 3610 3611 3612 3613 3614	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers	33 33 33 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15	3607 3608 3609 3610 3611 3612 3613 3614 3615	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-13 PT-14 PT-15 PT-16	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Tweezers Solid Arm Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-17	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Tweezers Solid Arm Tweezers Solid Arm Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-13 PT-14 PT-15 PT-16	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Tweezers Solid Arm Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-17 PT-19	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers	33 33 34 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-17 PT-19 PT-20	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers SMD Tweezers	33 33 34 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-16 PT-17 PT-19 PT-20 PT-21	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers SMD Tweezers SMD Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-17 PT-19 PT-20	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-14 PT-15 PT-16 PT-17 PT-19 PT-20 PT-21 PT-22	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-17 PT-19 PT-20 PT-21 PT-22 PT-23	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-13 PT-14 PT-15 PT-16 PT-17 PT-20 PT-21 PT-22 PT-23 PT-24	3607 3608 3609 3610 3611 3612 3613 3614 3615 3615 3616 3617 Discon. Discon. Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-17 PT-19 PT-20 PT-21 PT-22 PT-23	3607 3608 3609 3610 3611 3612 3613 3614 3615 3615 3616 3617 Discon. Discon. Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers SMD Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-12 PT-13 PT-14 PT-15 PT-16 PT-17 PT-20 PT-20 PT-22 PT-22 PT-23 PT-24 PT-25	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon. Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-12 PT-13 PT-14 PT-15 PT-15 PT-17 PT-19 PT-20 PT-21 PT-22 PT-22 PT-23 PT-24 PT-25 PT-26	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon. Discon. Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers	33 33 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-12 PT-13 PT-14 PT-15 PT-16 PT-17 PT-19 PT-20 PT-21 PT-22 PT-23 PT-24 PT-25 PT-26 PT-28	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers	33 33 34 34 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-12 PT-13 PT-14 PT-15 PT-15 PT-17 PT-19 PT-20 PT-21 PT-22 PT-22 PT-23 PT-24 PT-25 PT-26	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers	33 33 34 34 34 34 34 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-16 PT-17 PT-20 PT-21 PT-22 PT-23 PT-24 PT-25 PT-26 PT-28 PT-28 PT-28	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon.	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers	33 33 34 34 34 34 34 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-17 PT-19 PT-20 PT-21 PT-22 PT-23 PT-24 PT-25 PT-24 PT-25 PT-26 PT-28 PT-23 PT-23 PT-21 PT-29 PT-21 PT-29 PT-21 PT-29 PT-21 PT-25 PT-21 PT-26 PT-21 PT-25 PT-21 PT-26 PT-21 PT-26 PT-21 PT-26 PT-27 PT-26 PT-27 PT-26 PT-27 PT-26 PT-27	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3616 3617 Discon. Discon. Discon. Discon. Discon. Discon. 3629 3690	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers	33 33 34 34 34 34 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-16 PT-17 PT-20 PT-21 PT-22 PT-23 PT-24 PT-25 PT-26 PT-26 PT-23 PT-28	3607 3608 3609 3610 3611 3612 3613 3614 3616 3616 3617 Discon. Discon. Discon. Discon. Discon. Discon. Discon. 3629 3690 3661	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers Solid Arm Tweezers Tweezers' Soft Case Titanium Tweezers(AA)	33 33 34 34 34 34 34 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-17 PT-17 PT-17 PT-20 PT-21 PT-22 PT-22 PT-22 PT-23 PT-24 PT-25 PT-26 PT-28 PT-29	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. 3629 3690 3661 3662	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Twe	33 33 34 34 34 34 34 34 34 34 34 34 34
PT-07 PT-08 PT-09 PT-10 PT-11 PT-12 PT-13 PT-14 PT-15 PT-16 PT-16 PT-17 PT-20 PT-21 PT-20 PT-21 PT-22 PT-23 PT-24 PT-25 PT-26 PT-26 PT-23 PT-28	3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. 3629 3690 3661 3662	Tweezers(TS) Tweezers Tweezers Tweezers Tweezers Tweezers(BS) Tweezers Reverse Action Tweezers Solid Arm Tweezers Solid Arm Tweezers Solid Arm Tweezers SMD Tweezers Solid Arm Tweezers Tweezers' Soft Case Titanium Tweezers(AA)	33 33 33 34 34 34 34 34 34 34 34 34 34 3

PTS-01	3671	Tweezers	36
PTS-02	3672	Tweezers	36
PTS-03	3673	Tweezers	36
PTS-04	3674	Tweezers	36
PTS-05	3675	Tweezers	36
PTS-06	3676	Tweezers	36
PTS-07	3677	Tweezers	36
PTS-08	3678	Tweezers	36
PTZ-01	Discon.	Wafer Handling Tweezers	\bowtie
PTZ-41	3693	ESD Plastic-Tipped Tweezers	35
PTZ-42	3694	ESD Plastic-Tipped Tweezers	35
PTZ-43	3697	ESD Plastic-Tipped Tweezers	35
PTZ-45	3703	ESD Plastic-Tipped Tweezers	35
PTZ-46	3704	ESD Plastic-Tipped Tweezers	35
PTZ-51	3701	Ceramic-Tipped Tweezers	36
PTZ-61	3707	Black-Coated ESD Tweezers	36
PTZ-62	3708	Black-Coated ESD Tweezers	36
PTZ-63	3709	Black-Coated ESD Tweezers	36
PTZ-91	3695	Spare Tip for PTZ-41	35
PTZ-92	3696	Spare Tip for PTZ-42	35
PTZ-93	3698	Spare Tip for PTZ-43	35
PTZ-94	3702	Spare Tip for PTZ-51	36
PTZ-95	3705	Spare Tip for PTZ-45	35
PTZ-96	3706	Spare Tip for PTZ-46	35
PW-05	3395	Water Pump Pliers	23
PW-08	3398	Water Pump Pliers	23
PW-10	3390	Water Pump Pliers	23
PZ-01	3901	E-Ring Pliers	23
PZ-02	3902	E-Ring Pliers	23
PZ-10	Discon.	Snap Ring Pliers	\bowtie
PZ-11	Discon.	Tip for Snap Ring Pliers 0.7S	\bowtie
PZ-12	Discon.	Tip for Snap Ring Pliers 0.7C	\bowtie
PZ-13	Discon.	Tip for Snap Ring Pliers 1.4S	\bowtie
PZ-14	Discon.	Tip for Snap Ring Pliers 1.4C	\ge
PZ - 16	3916	Snap Ring Pliers	23
PZ - 17	3917	Snap Ring Pliers	23
PZ-18	3918	Snap Ring Pliers	23
PZ-19	3919	Snap Ring Pliers	23
PZ-22	3900	Screw Eater	З
PZ-32	3932	Screw Removal Pliers JS	6
PZ-55	3955	Screw Removal Pliers	5
PZ - 56	3956	Screw Removal Pliers XP	5
PZ - 57	3957	Screw Removal Pliers M2	5
PZ - 58	3958	Screw Removal Pliers GT	4
PZ-59	3959	Screw Removal Pliers RX	4
PZ-60	3962	Screw Removal Pliers Z	4
PZ - 64	3967	Screw Removal Locking Pliers	6
PZ-65	3968	Screw Removal Locking Pliers	6
	3964	Pliers Mask for PZ-32	6
PZM-58	3963	Pliers Mask for PZ-58	4



ITEM No.	CODE No.	ITEM	PAGE
SD-06	Discon.	Digital Multimeter	\bowtie
SD-07	Discon.	Iron Thermometer	\bowtie
SD-10	5710	Digital Multimeter	77
SD-20	5720	Desoldering Tool	74
SD-21	5721	Heater Holder	74
SD-22	5722	Heater Assy	74
SD-23	5723	Pipe Setter	74
SD-24	5724	Filter Cartridge	74
SD-25	5725	Seat Valve	74
SD-26	5726	Diaphragm	74
SD-29	5729	Filter Pipe	74
SD-30	5730	Smd Accessory Kit	74
SD-31	5731	Stainless Wire Reel	74
SD-58	Discon.	Sensor Probe	\bowtie
SD-60	5760	Tool Stand for SD-20	74
SD-61	5761	Ø0.8 Tip for SD-20	74
SD-62	5762	¢1.0 Tip for SD-20	74
SD-63	5763	¢1.5 Tip for SD-20	74
SD-86	5786	Hot Air Nozzle	74
SD-87	5787	Tapering Slim Tip	74
SD-88	5788	Tapering Slim Tip	74
SH-10	5410	Replacement Heater (100V)	70
SH-12	5412	Replacement Heater (220-240V)	71
SH-20	5420	Replacement Heater (100V)	70
SK-14	Discon.	Soldering Iron (Mica)	\bowtie
SK-30	5030	Soldering Iron	70
SK-31	5031	Soldering Iron	70
SK-32	5032	Soldering Iron (100V)	70
SK-40	5040	Soldering Iron (100V)	70
SK-41	5041	Soldering Iron (100V)	70
SK-42	5042	Tapered Needle for SKM-40	73
SK-43	5043	Chisel for SKM-40	73
SK-44	5044	¢2mm Spade for SKM-40	73
SK-45	5045	Chisel for SKM-40	73
SK-46	5046	Hot Blow Tip for SKM-40	73

IDEX	87
------	----

SK-47			
01.41	5047	Ejector Unit for SKM-40	73
OK EO		,	$\overset{\prime 3}{\leftarrow}$
SK-50	Discon.	Kotelyzer	X
SK-51	Discon.	Tapered Needle for SK-50	\times
SK-52	Discon.	Chisel for SK-50	\ge
SK-53		¢2mm Spade for SK-50	\triangleleft
			\bigcirc
SK-54		Chisel for SK-50	\ltimes
SK-55	Discon.	Hot Blow Tip for SK-50	\times
SK-56	Discon.	Hot Blow Tip for SK-50	$\overline{}$
			\Leftrightarrow
SK-57	Discon.	Ejector Unit for SK-50	ightarrow
SK-61	5061	Tapered Needle for SK-60	72
SK-62	5062	Chisel for SK-60	72
SK-63	5063	¢2mm Spade for SK-60	72
SK-64	5064	Chisel for SK-60	72
SK-65	5065	Hot Blow Tip for SK-60	72
SK-66	5066	Hot Blow Tip for SK-60	72
SK-67	5067	Hot Knife for SK-60	72
SK-68	5068	Ceramic Unit for SK-60	72
SK-70	Discon.	Kotelyzer	\sim
		Tapered Needle for SK-70	73
SK-71	5071		
SK-72	5072	Chisel for SK-70	73
SK-73	5073	\$\phi\$2mm Spade for SK-70 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73
SK-74	5074	Ø3mm Spade for SK-70	73
SK-75	5075	Tapered Needle for SK-70	73
SK-76	5076	¢2mm Spade for SK-70	73
SK-77	5077	Tapered Pyramid for SK-70	73
SK-78	5078	Offset Tapered Needle for SK-70	73
SK-79	5079	High Powered Chisel for SK-70	73
SK-80	5080	High Powered Round Head Needle for SK-70	73
SK-81	5081	High Powered Long Taper Chisel for SK-70	73
SK-82	5082	Hot Blow Tip for SK-70	73
SK-83	5083	Hot Blow Tip for SK-70	73
SK-84	5084	Hot Blow Tip for SK-70	73
SK-85	5085	Hook Fitting for SK-70	73
		-	
SK-88	5088	Protective Cap for SK-70	73
SK-89	5089	Cleaning Sponge for Kotelyer	72
SK-90	5090	Gas Refill for Kotelyzer	73
SK-93	5093	Heat Shrink for SK-70	73
SK-94	5094	Heat Shrink for SK-70	73
SK-95	5095	Gas Refill for Kotelyzer	73
SK-96	5096	Ceramic Unit for SK-70	73
SKA-50	Discon.	Kotelyzer	\sim
SKA-60	5105	Kotelyzer	72
SKA-70	5101	Kotelyzer	73
SKB-60	5106	Kotelyzer	72
SKB-70	5102	Kotelyzer	73
SKC-30	5130	Soldering Iron	70
SKC-31	5131	Soldering Iron	70
SKC-32	5132	Soldering Iron (100V)	70
SKC-40	5140	Soldering Iron (100V)	70
SKC-41	5141	Soldering Iron (100V)	70
SKC-60	5107	Kotelyzer	72
SKC-70	5103	Kotelyzer	73
SKD-70	5104	Kotelyzer	73
SKE-30	5180	Soldering Iron	70
SKE-31	5181	Soldering Iron	70
SKE-32	Discon.	Soldering Iron (100V)	\sim
			\bigcirc
SKE-40	Discon.	Soldering Iron (100V)	\geq
SKE-41	Discon.	Soldering Iron (100V)	\times
SKM-40	5108	Handy Kotelyzer	73
		Inspection Mirror	
SL-01	5801		79
SL-02	5802	Inspection Mirror	79
SL-03	5803	Inspection Mirror	79
SL-04	5804	Desk-Top Loupe	79
SL-07	5807	Desk-Top Loupe	79
SL-11	5811	Inspection Mirror	79
SL-12	5812	Inspection Loupe	78
SL-22	5822	LED Light Loupe	79
			79
	5200		
SL-23	5823	LED Stand Loupe	
SL-23 SL-50	5850	Pocket Loupe	78
SL-23			78 78
SL-23 SL-50 SL-51	5850 5851	Pocket Loupe Pocket Loupe	78
SL-23 SL-50 SL-51 SL-52	5850 5851 5852	Pocket Loupe Pocket Loupe Pocket Loupe	78 78
SL-23 SL-50 SL-51 SL-52 SL-53	5850 5851 5852 5853	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe	78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55	5850 5851 5852 5853 5855	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe	78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53	5850 5851 5852 5853	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe	78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56	5850 5851 5852 5853 5855 5856	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe	78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57	5850 5851 5852 5853 5855 5856 5857	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe	78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57 SL-58	5850 5851 5852 5853 5855 5856 5857 Discon.	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe	78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57 SL-58 SL-60	5850 5851 5852 5853 5855 5856 5857 Discon.	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope	78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57 SL-58	5850 5851 5852 5853 5855 5856 5857 Discon.	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe	78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57 SL-58 SL-60 SL-62	5850 5851 5852 5853 5855 5856 5857 Discon. Discon. Discon.	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera	78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64	5850 5851 5852 5853 5855 5856 5857 Discon. Discon. 5896	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier	78 78 78 78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64 SL-65	5850 5851 5852 5853 5855 5856 5857 Discon. Discon. 5896 Discon.	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale	78 78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-55 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64 SL-65 SL-65 SL-66	5850 5851 5852 5853 5855 5856 5857 Discon. Discon. 5896 Discon. Discon.	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale	78 78 78 78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-55 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64 SL-65	5850 5851 5852 5853 5855 5856 5857 Discon. Discon. 5896 Discon.	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale	78 78 78 78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-55 SL-55 SL-56 SL-57 SL-57 SL-60 SL-62 SL-62 SL-64 SL-65 SL-66 SL-61 SL-65	5850 5851 5852 5855 5856 5857 Discon. Discon. 5896 Discon. Discon. 5871	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe	78 78 78 78 78 78 78 78 78 78 78 78
SL-23 SL-50 SL-51 SL-52 SL-53 SL-56 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64 SL-65 SL-66 SL-61 SL-71 SL-72	5850 5851 5852 5855 5856 5857 Discon. Discon. 5896 Discon. Discon. 5871 5872	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe Utility Loupe	78 78 78 78 78 78 78 78 78 78 78 79 79
SL-23 SL-50 SL-51 SL-52 SL-55 SL-56 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64 SL-65 SL-64 SL-65 SL-65 SL-71 SL-72 SL-80	5850 5851 5852 5853 5856 5856 5857 Discon. Discon. Discon. Discon. 5896 Discon. 5896 5896 5896 5896 5892 5892	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe Utility Loupe Head Loupe	78 78 78 78 78 78 78 78 78 78 78 79 79 79
SL-23 SL-50 SL-51 SL-55 SL-55 SL-55 SL-56 SL-57 SL-56 SL-66 SL-62 SL-64 SL-62 SL-66 SL-66 SL-72 SL-80 SL-81	5850 5851 5852 5855 5856 5856 5857 Discon. Discon. Discon. 5896 Discon. 5891 5871 5872 5880 5881	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe Utility Loupe Head Loupe Head Loupe	78 78 78 78 78 78 78 78 78 78 79 79 79 79 79
SL-23 SL-50 SL-51 SL-55 SL-55 SL-55 SL-56 SL-57 SL-56 SL-66 SL-62 SL-64 SL-62 SL-66 SL-66 SL-72 SL-80 SL-81	5850 5851 5852 5853 5856 5856 5857 Discon. Discon. Discon. Discon. 5896 Discon. 5896 5896 5896 5896 5892 5892	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe Utility Loupe Head Loupe Head Loupe	78 78 78 78 78 78 78 78 78 78 79 79 79
SL-23 SL-50 SL-51 SL-52 SL-55 SL-56 SL-56 SL-57 SL-58 SL-62 SL-64 SL-62 SL-64 SL-64 SL-65 SL-64 SL-65 SL-64 SL-71 SL-72 SL-81 SL-82	5850 5851 5852 5855 5855 5855 5857 Discon. Discon. 5896 Discon. 5871 5872 5880 5881 5882	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe Utility Loupe Head Loupe Head Loupe Head Loupe	78 78 78 78 78 78 78 78 78 78 78 79 79 79 79 79
SL-23 SL-50 SL-51 SL-52 SL-55 SL-56 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64 SL-65 SL-64 SL-65 SL-64 SL-65 SL-64 SL-71 SL-72 SL-82 SL-83	5850 5851 5852 5855 5855 5857 Discon. Discon. Discon. 5896 Discon. 5896 Discon. 5871 5872 5882 5881 5882	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe Head Loupe Head Loupe Head Loupe Head Loupe	78 78 78 78 78 78 78 78 78 78 79 79 79 79 79 79 79
SL-23 SL-50 SL-51 SL-52 SL-55 SL-55 SL-56 SL-67 SL-60 SL-60 SL-62 SL-62 SL-65 SL-65 SL-65 SL-65 SL-65 SL-65 SL-71 SL-80 SL-80 SL-80 SL-83 SL-83 SL-83 SL-83	5850 5851 5855 5856 5856 5856 5856 5856 5856	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe Utility Loupe Head Loupe Head Loupe Head Loupe Head Loupe Replacement Lens for Head Loupe	78 78 78 78 78 78 78 78 78 79 79 79 79 79 79 79 79 79
SL-23 SL-50 SL-51 SL-52 SL-55 SL-56 SL-56 SL-57 SL-58 SL-60 SL-62 SL-64 SL-65 SL-64 SL-65 SL-64 SL-65 SL-64 SL-71 SL-72 SL-80 SL-81 SL-82 SL-83	5850 5851 5852 5855 5855 5857 Discon. Discon. Discon. 5896 Discon. 5896 Discon. 5871 5872 5882 5881 5882	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe Head Loupe Head Loupe Head Loupe Head Loupe	78 78 78 78 78 78 78 78 78 78 79 79 79 79 79 79 79
SL-23 SL-50 SL-51 SL-52 SL-55 SL-55 SL-56 SL-67 SL-60 SL-60 SL-62 SL-62 SL-65 SL-65 SL-65 SL-65 SL-65 SL-65 SL-71 SL-80 SL-80 SL-80 SL-83 SL-83 SL-83 SL-83	5850 5851 5855 5856 5856 5856 5856 5856 5856	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Eyepiece with Micro Scale Eyepiece with Micro Scale Flashlight Loupe Utility Loupe Head Loupe Head Loupe Head Loupe Head Loupe Replacement Lens for Head Loupe	78 78 78 78 78 78 78 78 78 78 79 79 79 79 79 79 79 79 79
SL-23 SL-50 SL-51 SL-52 SL-55 SL-55 SL-56 SL-67 SL-66 SL-62 SL-66 SL-65 SL-66 SL-71 SL-81 SL-81 SL-81 SL-83 SL-85 SL-86	5850 5851 5855 5856 5856 5856 5857 Discon. Discon. 5870 Discon. 5871 5872 5880 5881 5882 5883 5885	Pocket Loupe Pocket Loupe Pocket Loupe Pocket Loupe Inspection Loupe Inspection Loupe Inspection Loupe Stereo Microscope Microscope Cmos Camera Foldable Magnifier Eyepiece with Micro Scale Eyepiece with Micro Scale Eyepiece with Micro Scale Eyepiece with Micro Scale Eyepiece with Micro Scale Hashlight Loupe Head Loupe Head Loupe Head Loupe Replacement Lens for Head Loupe Replacement Lens for Head Loupe	78 78 78 78 78 78 78 78 78 78 78 79 79 79 79 79 79 79 79 79 79 79

SS-01	5501	Solder Sucker	75
SS-02	5502	Solder Sucker	75
SS-05	5505	Tip Cleaner	75
SS-08	5508	lc Extractor	72
SS-09	Discon.	Soldering Box	\ge
SS-10	5510	PCB Connector Extractor	72
SS-11	5511	Replacement Nozzle	75
SS-15	5515	2P-3P Plug Converter	74
SS-16	5516	Replacement Silicone Tubes	75
SS-20	5520	Iron Stand	75
SS-21	5521	Spring Hook	30
SS-22	5522	Spring Hook	30
SS-30 SS-31	5530	Pin Extractor	29
SS-31 SS-32	5531 5532	Pin Extractor Pin Extractor	29 29
SS-32	5533	Pin Extractor	29
SS-34	5534	Pin Extractor	29
ST-10	5210	Replacement Tip for SK-30	70
ST-11	5211	Replacement Tip for SK-30	70
ST-12	5212	Replacement Tip for SK-30	70
ST-13	5213	Replacement Tip for SK-30	70
ST-14	5214	Replacement Tip for SK-30	70
ST-20	5220	Replacement Tip	70
ST-21	5221	Replacement Tip	70
ST-22	5222	Replacement Tip	70
ST-23	5223	Replacement Tip	70
SW-11	5611	Solder	77
SW-12	5612	Solder	77
SW-13	5613	Solder	77
SW-21	5621	Solder	77
SW-22	5622	Solder	77
SW-23 SW-30	5623	Solder Solder	77
SW-30 SW-31	5630 5631	Solder	77 77
SW-31 SW-32	5632	Solder	77
SW-32	5633	Solder	77
SW-00	5641	Solder	77
SW-42	5642	Solder	77
SW-43	5643	Solder	77
SW-51	5651	Solder	77
SW-52	5652	Solder	77
SW-53	5653	Solder	77
SWA-06	4006	Superiot RA Solder	76
SWA-08	4008	Superiot RA Solder	76
SWA-10	4010	Superiot RA Solder	76
SWA-12	4012	Superiot RA Solder	76
SWA-56 SWA-58	4056 4058	Superiot RA Solder Superiot RA Solder	76 76
	4058	Superiot RA Solder	76
SWA-60 SWA-62		Superiot RA Solder	76
	4076	Superiot RA Solder	76
SWA-78		Superiot RA Solder	76
SWA-80		Superiot RA Solder	76
SWA-82		Superiot RA Solder	76
SWS-06		Superiot RMA Solder	76
SWS-08		Superiot RMA Solder	76
SWS-10	4110	Superiot RMA Solder	76
SWS-12		Superiot RMA Solder	76
SWS-56		Superiot RMA Solder	76
SWS-58		Superiot RMA Solder	76
SWS-60		Superiot RMA Solder	76
SWS-62	4162	Superiot RMA Solder	76
SWS-76		Superiot RMA Solder	76
SWS-78 SWS-80		Superiot RMA Solder	76
SWS-80 SWS-82		Superiot RMA Solder Superiot RMA Solder	76 76
SW5-82 SWU-02		Solder Wick	76
SWU-02		Solder Wick	76
SWU-03		Solder Wick	76
SWU-05		Solder Wick	76
SWU-06		Solder Wick	76
			-
	1		

ITEM No.	CODE No.	ITEM	PAGE
TD-03	6403	Twist Drill	56
TD-04	6404	Twist Drill	56
TD-05	6405	Twist Drill	56
TD-06	6406	Twist Drill	56
TD-07	6407	Twist Drill	56
TD-08	6408	Twist Drill	56
TD-09	6409	Twist Drill	56
TD-10	6410	Twist Drill	56
TD-12	6412	Twist Drill	56
TD-15	6415	Twist Drill	56
TD-16	6416	Twist Drill	56
TD-18	6418	Twist Drill	56
TD-20	6420	Twist Drill	56
TD - 25	6425	Twist Drill	56

TD-30 TD-32 TD-35 TD-40 TD-50	6430	Twist Drill	56
TD-35 TD-40		F : . 0 !!!	
TD-40	6432	Twist Dri ll	56
	6435	Twist Dri ll	56
	6440	Twist Drill	56
	6450	Twist Drill	56
TD-60	6460	Twist Drill	56
TDS-01	6471	Twist Drill Set	56
TDS-02	6472	Twist Drill Set	56
TDS-03	6473	Twist Drill Set	56
TF-01	Discon.	File	$\overline{\mathbf{N}}$
			КЭ
TF-02	Discon.	File	K
TF-03	Discon.	File	\bowtie
TF-04	Discon.	File	\bowtie
TF-05		File	1521
TF-06		File	57
	6536		
TF-07	6537	File	57
TF-10	6540	File	57
TF-11	6541	Jet Black File	58
TF-12	6542	Jet Black File	58
TF-13	6543	Jet Black File	58
TF-14	6547	Jet Black File	58
TF-15	6548	Jet Black File	58
TF-21	6544	Jet Black File	58
TF-22	6545	Jet Black File	58
-			
TF-23	6546	Jet Black File	58
TF-24	6549	Jet Black File	58
TF-25	6550	Jet Black File	58
TF-31	6641	Jet Black File	58
TF-32	6642	Jet Black File	
			58
TF-33	6643	Jet Black File	58
TF-34	6644	Jet Black File	58
TF-35	6645	Jet Black File	58
TF-41	6646	Jet Black File	58
TF-42	6647	Jet Black File	58
TF-43	6648	Jet Black File	58
TF - 44	6649	Jet Black File	58
TF-45	6650	Jet Black File	58
TFS-01	6551	File Set	58
TFS-02	6552	File Set	58
TFS-03	Discon.	File Set(Precise Type)	\bowtie
TES-04	Discon	File Set(Precise Type)	M
TFS-06	Discon.	File Set(Precise Type)	ĸ
TFS-07	6557	Jet Black File Set	58
TFS-10	6558	Jet Black File Set	58
TFS-20	6559	Jet Black File Set	58
TFS-30		Jet Black File Set	58
			R
TG-02	Discon.	Grinder	K
TH-01		Hammer	\bowtie
	Diegen	Llommor	
TH-02	Discon.	Hammer	\times
			\bigotimes
TH-05	Discon.	Hammer	57
TH - 05 TM - 04	Discon. 6624	Hammer Steel Rule	57
TH-05 TM-04 TM-05	Discon. 6624 6625	Hammer Steel Rule Steel Rule	57
TH-05 TM-04 TM-05 TN-01	Discon. 6624 6625 6101	Hammer Steel Rule Steel Rule Jeweller's Saw	57 57
TH-05 TM-04 TM-05	Discon. 6624 6625	Hammer Steel Rule Steel Rule	57
TH-05 TM-04 TM-05 TN-01 TN-02	Discon. 6624 6625 6101 6102	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw	57 57
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03	Discon. 6624 6625 6101 6102 6103	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw	57 57 57 57
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04	Discon. 6624 6625 6101 6102 6103 6104	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw	57 57 57 57 57
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05	Discon. 6624 6625 6101 6102 6103 6104 6105	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw	57 57 57 57 57 57 57
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05 TN-11	Discon. 6624 6625 6101 6102 6103 6104 6105 6111	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade	57 57 57 57 57 57 57 57 57
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05	Discon. 6624 6625 6101 6102 6103 6104 6105	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw	57 57 57 57 57 57 57
TH-05 TM-04 TN-01 TN-02 TN-03 TN-03 TN-04 TN-05 TN-11 TN-12	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57
TH-05 TM-04 TN-01 TN-02 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-02 TN-04 TN-04 TN-04 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-17 TN-18	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-02 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-15 TN-17 TN-18 TN-18 TN-18	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-105 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-16 TN-17 TN-18 TN-17 TN-18 TN-17 TN-18 TN-120 TP-21	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-18 TP-21 TP-21 TP-22	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-105 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-16 TN-17 TN-18 TN-17 TN-18 TN-17 TN-18 TN-120 TP-21	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-12 TN-14 TN-15 TN-14 TN-15 TN-16 TN-16 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-23	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-15 TN-16 TN-17 TN-18 TP-20 TP-21 TP-23 TP-24	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. 6023 6024	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-02 TN-04 TN-05 TN-11 TN-12 TN-13 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-24 TP-24 TP-25	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. 6023 6024 Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05 TN-12 TN-13 TN-14 TN-15 TN-16 TN-15 TN-16 TN-17 TN-18 TN-17 TN-18 TP-20 TP-21 TP-22 TP-23 TP-25 TP-26	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. 6023 6024	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Pin Vise Pin Vise Pin Vise(for Drilling Machine) Pin Vise(for Mini Motor)	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-02 TN-04 TN-05 TN-11 TN-12 TN-13 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-24 TP-24 TP-25	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. 6023 6024 Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-16 TN-15 TN-16 TN-17 TN-16 TN-17 TP-20 TP-21 TP-22 TP-23 TP-24 TP-26 TP-28	Discon. 6624 6625 6101 6102 6103 6104 6105 6114 6115 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Pin Vise Pin Vise Pin Vise(for Drilling Machine) Pin Vise(for Mini Motor)	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-04 TN-05 TN-11 TN-12 TN-12 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-18 TP-20 TP-21 TP-24 TP-24 TP-24 TP-28 TP-28 TP-28 TP-28	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 56 \lambda 66 \lambda \lambda <
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-16 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-25 TP-24 TP-25 TP-25 TP-24 TP-25	Discon. 6624 6625 6101 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. Constanti constanti 6033	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 56 X 56 66 X X 30
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-12 TN-13 TN-14 TN-15 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-24 TP-25 TP-26 TP-26 TP-28 TP-33 TP-34	Discon. 6624 6625 6101 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Constanti constanti constanti constanti 6033 6034	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-16 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-25 TP-25 TP-24 TP-25	Discon. 6624 6625 6101 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. Constanti constanti 6033	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 56 X 56 66 X X 30
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-03 TN-04 TN-05 TN-11 TN-12 TN-12 TN-13 TN-14 TN-15 TN-16 TN-15 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-24 TP-25 TP-26 TP-26 TP-28 TP-33 TP-34	Discon. 6624 6625 6101 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Constanti constanti constanti constanti 6033 6034	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-13 TN-14 TN-13 TN-14 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-18 TP-20 TP-21 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-26 TP-23 TP-31 TP-35 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6114 6115 6114 6115 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. 0033 6034	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Mini Drill Chuck Pin Vise Pin Vise Pick-Up Tool Pick-Up Tool Magnetic Pick-Up Tool Magnetic Pick-Up Tool	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-13 TN-14 TN-15 TN-16 TN-16 TN-17 TN-16 TN-17 TN-16 TN-17 TN-18 TP-21 TP-21 TP-23 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-26 TP-26 TP-33 TP-36 TP-36 TP-36 TP-36 TP-36 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6114 6115 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Constante of the second s	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Saw Pin Vise Pin Vise Pin Vise Pin Vise Pin Vise Saw Pin Vise Saw Pin Vise Saw Saw Blade Saw Saw Saw Saw Saw Saw Saw Saw Saw Saw	57 57<
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-04 TN-05 TN-11 TN-12 TN-12 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-26 TP-28 TP-31 TP-34 TP-35 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. 6033 6034 6035 6036 6031 6035	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-13 TN-14 TN-15 TN-16 TN-16 TN-17 TN-16 TN-17 TN-16 TN-17 TN-18 TP-21 TP-21 TP-23 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-26 TP-26 TP-33 TP-36 TP-36 TP-36 TP-36 TP-36 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6114 6115 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Discon. Constante of the second s	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Saw Pin Vise Pin Vise Pin Vise Pin Vise Pin Vise Saw Pin Vise Saw Pin Vise Saw Saw Blade Saw Saw Saw Saw Saw Saw Saw Saw Saw Saw	57 57<
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-05 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-16 TN-17 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-23 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-31 TP-35 TP-35 TP-35 TP-36 TP-35	Discon. 6624 6625 6101 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6116 6117 6118 6020 Discon. Con. Discon. Discon. Con. Discon. Discon. Con	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Pin Vise Pin Vise Pin Vise Pin Vise (for Mini Motor) Pick-Up Tool Pick-Up Tool Magnetic Pick-Up Tool Magnetic Pick-Up Tool Magnetic Pick-Up Tool Taper Reamer Taper Reamer	57 57<
TH-05 TM-04 TM-04 TN-03 TN-01 TN-03 TN-04 TN-03 TN-04 TN-05 TN-11 TN-12 TN-12 TN-12 TN-13 TN-14 TN-15 TN-16 TN-16 TN-17 TN-18 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-24 TP-25 TP-26 TP-36	Discon. 6624 6625 6101 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6016 6117 6118 6020 Discon. Discon. Discon. Discon. 0033 6024 Discon. 0033 6034 6035 6036 6611 6612 6613 6614	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 57 57 57 57 57 57 57 57 57 57 57 57 5
TH-05 TM-04 TM-04 TN-05 TN-01 TN-03 TN-04 TN-05 TN-112 TN-16 TN-13 TN-14 TN-15 TN-16 TN-16 TN-17 TN-18 TP-20 TP-21 TP-20 TP-21 TP-20 TP-21 TP-20 TP-21 TP-20 TP-21 TP-20 TP-23 TP-24 TP-23 TP-31 TP-31 TP-31 TP-35 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6114 6115 6114 6115 6114 6115 6116 6117 6118 6020 Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Mini Drill Chuck Pin Vise Pin Vise Saw Blade Saw Blade Saw Blade Mini Drill Chuck Pin Vise Pin Vise Pick-Up Tool Magnetic Pick-Up Tool Magnetic Pick-Up Tool Taper Reamer Taper Reamer Mini Spanner Set	57 57<
TH-05 TM-04 TM-04 TN-01 TN-03 TN-04 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-13 TN-14 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-16 TN-17 TP-20 TP-21 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-26 TP-28 TP-33 TP-35 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6114 6115 6114 6115 6116 6117 6118 6020 Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Pick-Up Tool Magnetic Pick-Up Tool Magnetic Pic	57 53<
TH-05 TM-04 TM-04 TN-05 TN-01 TN-03 TN-04 TN-05 TN-112 TN-16 TN-13 TN-14 TN-15 TN-16 TN-16 TN-17 TN-18 TP-20 TP-21 TP-20 TP-21 TP-20 TP-21 TP-20 TP-21 TP-20 TP-21 TP-20 TP-23 TP-24 TP-23 TP-31 TP-31 TP-31 TP-35 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6114 6115 6114 6115 6114 6115 6116 6117 6118 6020 Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Saw Blade Mini Drill Chuck Pin Vise Pin Vise Saw Blade Saw Blade Saw Blade Mini Drill Chuck Pin Vise Pin Vise Pick-Up Tool Magnetic Pick-Up Tool Magnetic Pick-Up Tool Taper Reamer Taper Reamer Mini Spanner Set	57 57<
TH-05 TM-04 TM-04 TN-01 TN-03 TN-04 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-16 TN-17 TN-18 TN-14 TN-12 TN-12 TN-12 TN-12 TN-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-23 TP-24 TP-26 TP-28 TP-26 TP-28 TP-33 TP-35 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6114 6115 6114 6115 6116 6117 6118 6020 Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Pick-Up Tool Magnetic Pick-Up Tool Magnetic Pic	57 53<
TH-05 TM-04 TM-05 TN-01 TN-03 TN-04 TN-03 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-24 TP-26 TP-26 TP-28 TP-34 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. Discon. 0033 6034 6035 6036 6011 6612 6613 6614 Discon. Discon. 0036 6036	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 57<
TH-05 TM-04 TM-04 TN-01 TN-03 TN-04 TN-03 TN-04 TN-05 TN-04 TN-05 TN-11 TN-12 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-16 TN-17 TN-18 TP-21 TP-22 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-31 TP-35 TP-35 TP-35 TP-36 TP-35 TP-36 TR-01 TR-02 TR-03 TR-04 TS-01 TS-06 TS-06 TS-06	Discon. 6624 6625 6101 6102 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Co33 6034 6035 6036 6014 Discon. Co35 6036 6031 6036 605	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Sa	57 57<
TH-05 TM-04 TM-04 TM-05 TN-01 TN-03 TN-04 TN-03 TN-04 TN-05 TN-11 TN-12 TN-16 TN-17 TN-18 TN-16 TN-17 TN-16 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-23 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-26 TP-26 TP-26 TP-26 TP-26 TP-31 TP-35 TP-35 TP-36 TR-01 TS-02 TS-04 TS-06 TS-07 TS-06 TS-07	Discon. 6624 6625 6101 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. 6033 6034 6035 6036 6611 Discon. Discon. 6033 6034 6035 6036 6612 6613 6614 Discon. Discon. 6636 6366 6366 6366 6367	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Saw Blade Saw Blade	57 57<
TH-05 TM-04 TM-04 TM-05 TN-01 TN-02 TN-03 TN-04 TN-05 TN-11 TN-13 TN-14 TN-13 TN-14 TN-13 TN-14 TN-13 TN-14 TN-13 TN-14 TN-15 TN-16 TN-17 TN-16 TN-17 TN-16 TN-17 TP-20 TP-21 TP-23 TP-24 TP-23 TP-24 TP-25 TP-26 TP-23 TP-26 TP-23 TP-26 TP-23 TP-26 TP-23 TP-31 TP-31 TP-35 TP-36 TP-36 TP-35 TP-36	Discon. 6624 6625 6101 6102 6103 6104 6105 6114 6115 6114 6115 6114 6115 6114 6115 6114 6115 6117 6020 Discon. Co364 6364 6365 6367 Discon.	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Saw Blade Saw Bla	57 57<
TH-05 TM-04 TM-04 TM-05 TN-01 TN-03 TN-04 TN-03 TN-04 TN-05 TN-11 TN-12 TN-16 TN-17 TN-18 TN-16 TN-17 TN-16 TN-16 TN-17 TN-18 TP-20 TP-21 TP-22 TP-23 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-24 TP-25 TP-26 TP-26 TP-26 TP-26 TP-26 TP-31 TP-35 TP-35 TP-36 TR-01 TS-02 TS-04 TS-06 TS-07 TS-06 TS-07	Discon. 6624 6625 6101 6103 6104 6105 6111 6112 6113 6114 6115 6116 6117 6118 6020 Discon. Discon. Discon. Discon. Discon. Discon. 6033 6034 6035 6036 6611 Discon. Discon. 6033 6034 6035 6036 6612 6613 6614 Discon. Discon. 6636 6366 6366 6366 6367	Hammer Steel Rule Steel Rule Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Jeweller's Saw Saw Blade Saw Blade Pin Vise Pin Vise Saw Blade Saw Blade	57 57<

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TS-14	Discon.	Spanner(Flat Head)	\sim
TS-15		Spanner(Flat Head)	\Leftrightarrow
			\Leftrightarrow
TS-21		Spanner(Inclined Head)	K
TS-22	Discon.	Spanner(Inclined Head)	\bowtie
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TS-24		Spanner(Inclined Head)	\bigtriangledown
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TS-25	Discon.	Spanner(Inclined Head)	Þ
TS-41	6281	Combination Spanner	52
TS-42	6282	Combination Spanner	52
TS-43	6283	Combination Spanner	52
TS-44	6284	Combination Spanner	52
-			
TS-45	6285	Combination Spanner	52
TS-46	6286	Combination Spanner	52
TS-47	6287	Combination Spanner	52
TS-48	6288	Combination Spanner	52
TT-01	6501	Tap Handle	56
TT-02	6502	Tap Handle	56
TT-03	6503	Tap Set	56
TT-10	6510	Тар	56
TT-11	6511	Тар	56
TT-12	6512	Тар	56
TT-13	6513	Тар	56
TT-14	6514	Тар	56
TT-15	6515	Тар	56
-			
TT-16	6516	Тар	56
TV-01	6561	Bench Vise	57
TV-02	6562	Bench Vise	57
TV-03	6563	Bench Vise	57
TV-04	6564	Bench Vise	57
TV-11	6571	Anvil Vise	57
TV-12	6572	Anvil Vise	57
TV-13	6573	Anvil Vise	57
TV-14	6574	Anvil Vise	57
TV-25	6585	Yankee Vise	57
TV-26	6586	Yankee Vise	57
TV-27	6587	Yankee Vise	57
TV-31	Discon.	Clamp	\sim
TV-32	Discon.		\Leftrightarrow
			\bowtie
TV-34	Discon.	Clamp	\bowtie
TWB-00	Discon.	Ball Point Hex Wrench	\ge
TWB-01	6201	Ball Point Hex Wrench Set (Long)	53
TWB-02	6202	Ball Point Stubby Wrench Set	53
TWB-04	6204	Ball Point Wrench Set (Short)	53
TWB-05	6205	Ball Point Stubby Wrench Set	53
TWB-13	6213	Ball Point Hex Wrench	53
	6215		
TWB-15	-	Ball Point Hex Wrench	53
TWB-20	6220	Ball Point Hex Wrench	53
TWB-20 TWB-25	6220 6225	Ball Point Hex Wrench	53
TWB-25	6225	Ball Point Hex Wrench	
TWB-25 TWB-30	6225 6230	Ball Point Hex Wrench Ball Point Hex Wrench	53 53
TWB-25 TWB-30 TWB-40	6225 6230 6240	Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench	53 53 53
TWB-25 TWB-30 TWB-40 TWB-50	6225 6230 6240 6250	Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench	53 53 53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60	6225 6230 6240 6250 6260	Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench	53 53 53
TWB-25 TWB-30 TWB-40 TWB-50	6225 6230 6240 6250 6260	Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench Ball Point Hex Wrench	53 53 53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80	6225 6230 6240 6250 6260 6280	Ball Point Hex Wrench Ball Point Hex Wrench	53 53 53 53 53 53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01	6225 6230 6240 6250 6260 6280 6301	Ball Point Hex Wrench Ball Point Hex Wrench Hex Key Wrench Set	53 53 53 53 53 53 53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02	6225 6230 6240 6250 6260 6280 6301 6302	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set	53 53 53 53 53 53 53 53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-01 TWH-02 TWH-04	6225 6230 6240 6250 6260 6280 6301 6302 6304	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set	53 53 53 53 53 53 53 53 53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-01 TWH-02 TWH-04	6225 6230 6240 6250 6260 6280 6301 6302	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set	53 53 53 53 53 53 53 53 53
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TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-60 TWB-80 TWH-01 TWH-02 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13	6225 6230 6240 6250 6260 6301 6302 6304 6311 6312 6313	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	53 53 53 53 53 53 53 53 53 53 53 53 53 5
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-60 TWH-01 TWH-02 TWH-04 TWH-04 TWH-11 TWH-12 TWH-13 TWH-14	6225 6230 6240 6250 6260 6301 6302 6304 6311 6312 6313 6314	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	53 53 53 53 53 53 53 53 53 53 53 53 53 5
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-04 TWH-02 TWH-04 TWH-11 TWH-12 TWH-12 TWH-13 TWH-14 TWH-15	6225 6230 6240 6250 6260 6301 6302 6304 6311 6312 6313 6314 6315	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	53 53 53 53 53 53 53 53 53 53 53 53 53 5
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-60 TWH-01 TWH-02 TWH-04 TWH-04 TWH-11 TWH-12 TWH-13 TWH-14	6225 6230 6240 6250 6260 6301 6302 6304 6311 6312 6313 6314 6315	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	53 53 53 53 53 53 53 53 53 53 53 53 53 5
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TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWH-01 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18	6225 6230 6240 6250 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Hex Key Wrench <t< td=""><td>53 53 53 53 53 53 53 53 53 53 53 53 53 5</td></t<>	53 53 53 53 53 53 53 53 53 53 53 53 53 5
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TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWH-01 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13 TWH-16 TWH-16 TWH-17 TWH-18 TWH-19 TWH-11 TWH-12 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-21 TWH-22 TWH-23	6225 6230 6240 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWH-01 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13 TWH-16 TWH-16 TWH-17 TWH-18 TWH-22 TWH-23 TWH-23 TWH-24	6225 6230 6240 6260 6280 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323 6324	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Hex Key Wrench <t< td=""><td>53 53</td></t<>	53 53
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TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWH-01 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13 TWH-16 TWH-16 TWH-17 TWH-18 TWH-22 TWH-23 TWH-23 TWH-24	6225 6230 6240 6250 6280 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323 6324 6325	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Hex Key Wrench <t< td=""><td>53 53</td></t<>	53 53
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-18 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26	6225 6230 6240 6250 6280 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323 6324 6325	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	$\begin{array}{c} 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\$
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TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-80 TWB-80 TWH-01 TWH-02 TWH-04 TWH-11 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-02 TWH-02 TWH-24 TWH-25 TWH-02 TWH-01 TWH-02	6225 6230 6240 6260 6301 6302 6304 6312 6313 6314 6315 6316 6317 6318 6321 6321 6322 6323 6324 6325 Discon 6351 6352	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	
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TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWH-01 TWH-02 TWH-04 TWH-11 TWH-12 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-21 TWH-12 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWH-20 TWM-20 TWM-02 TWM-02 TWM-03	6225 6230 6240 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323 6324 6325 Discon. 6352 6353 6354	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	$ \begin{array}{c} 33 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 \\ 53 $
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-20 TWH-21 TWH-21 TWH-21 TWH-21 TWH-21 TWH-21 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWM-02 TWM-03 TWM-04	6225 6230 6260 6280 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323 6324 6325 Discon. 6351 6352 6354 6355	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-19 TWH-18 TWH-21 TWH-18 TWH-21 TWH-21 TWH-21 TWH-21 TWH-21 TWH-22 TWH-23 TWH-24 TWH-26 TWH-20 TWM-01 TWM-02 TWM-03 TWM-04 TWM-05 TWM-05	6225 6230 6260 6280 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323 6324 6325 Discon. 6351 6352 6354 6355 6357	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench Smart	
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-02 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-26 TWH-26 TWH-27 TWH-28 TWH-20 TWH-20 TWH-20 TWH-20 TWH-20 TWH-20 TWM-02 TWM-03 TWM-04 TWM-05 TWM-08	6225 6230 6240 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6316 6317 6318 6320 6321 6322 6323 6324 6325 6351 6352 6353 6355 6355 6357 6358	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench	
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWB-61 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-19 TWH-11 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWM-02 TWM-03 TWM-04 TWM-05 TWM-08 TWS-01	6225 6230 6240 6260 6301 6302 6304 6312 6313 6314 6315 6316 6317 6318 6321 6321 6322 6323 6324 6323 6324 6325 Discon 6351 6352 6353 6354 6355 6355 6355 6358 6341	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench </td <td></td>	
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TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWH-01 TWH-02 TWH-01 TWH-02 TWH-01 TWH-02 TWH-04 TWH-11 TWH-12 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-20 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-02 TWM-03 TWM-04 TWM-05 TWM-07 TWM-08 TWS-01 TWS-02	6225 6230 6240 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6321 6321 6322 6323 6324 6324 6325 Discon 6351 6352 6353 6354 6355 6354 6355 6354 6357 6358	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench	33333 333333 333333 333333 333333 333333 333333 333333 333333 333333 333333 3333333 333333 3333333 3333333 3333333 3333333 3333333 3333333 3333333 33333333 333333333 333333333 333333333 3333333333 33333333333333333 333333333333333333333333333333333333
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-20 TWH-18 TWH-21 TWH-23 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-29 TWH-20 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-29 TWH-20 TW	6225 6230 6260 6280 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323 6324 6325 Discon. 6351 6355 6354 6355 6357 6358 6354 6342 6343	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench Socket Wrench Set Socket Wrench Set	3333 33333 33333 33333 33333
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-28 TWH-20 TWH-28 TWH-20 TWH-21 TWH-28 TWH-20 TWH-20 TWH-20 TWH-20 TWH-20 TWH-20 TWM-01 TWM-02 TWM-03 TWM-04 TWM-05 TWM-07 TWM-08 TWS-01 TWS-03 TWS-04	6225 6230 6240 6260 6280 6301 6302 6304 6311 6312 6313 6314 6315 6314 6315 6316 6321 6322 6323 6324 6325 Discon. 6351 6352 6353 6354 6355 6357 6358 6341 6343 6344	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench Socket Wrench Set Socket Wrench Set	
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-19 TWH-14 TWH-15 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-24 TWH-25 TWH-26 TWH-27 TWM-02 TWM-03 TWS-01 TWS-02 TWS-03 TWS-04 TWS-05	6225 6230 6240 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323 6324 6325 Discon. 6351 6352 6355 6355 6355 6355 6355 6355 6355	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench Socket Wrench Set Socket Wrench Set Socket Wrench Set	
TWB-25 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-28 TWH-20 TWH-28 TWH-20 TWH-21 TWH-28 TWH-20 TWH-20 TWH-20 TWH-20 TWH-20 TWH-20 TWM-01 TWM-02 TWM-03 TWM-04 TWM-05 TWM-07 TWM-08 TWS-01 TWS-03 TWS-04	6225 6230 6240 6260 6280 6301 6302 6304 6311 6312 6313 6314 6315 6314 6315 6316 6321 6322 6323 6324 6325 Discon. 6351 6352 6353 6354 6355 6357 6358 6341 6343 6344	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Socket Wrench Set Socket Wrench Set </td <td></td>	
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-19 TWH-14 TWH-15 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-24 TWH-25 TWH-26 TWH-27 TWM-02 TWM-03 TWS-01 TWS-02 TWS-03 TWS-04 TWS-05	6225 6230 6240 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6320 6321 6322 6323 6324 6325 Discon. 6351 6352 6355 6355 6355 6355 6355 6355 6355	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench Socket Wrench Set Socket Wrench Set Socket Wrench Set	
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-19 TWH-10 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-14 TWH-16 TWH-17 TWH-18 TWH-10 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-20 TWM-02 TWM-03 TWM-04 TWS-03 TW	6225 6230 6240 6250 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6321 6322 6323 6324 6325 6326 6351 6352 6353 6354 6355 6354 6341 6342 6343 6344 6345 6304 6344 6345 6344 6345 6302 6902 6902	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench Socket Wrench Set Socket Wrench	
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWH-01 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-24 TWH-25 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-29 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-29 TWH-20 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWM-02 TWM-03 TWS-04 TWS-05 TZ-02 TZ-	6225 6230 6240 6250 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6324 6325 0324 6325 0324 6351 6352 6353 6354 6355 6354 6344 6345 6341 6342 6343 6344 6345 6344 6345 6303 6344 6345 6903 6903 6904	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Mex Key Wrench Mex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Socket Wrench Set Socket Wrench Set Socket Wrenc	333333333333333333333333333333333333
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-20 TWH-20 TWH-20 TWH-20 TWM-01 TWM-02 TWM-03 TWM-04 TWS-01 TWS-01 TW	6225 6230 6240 6260 6200 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6322 6321 6322 6323 6324 6325 Discon. 6351 6352 6353 6354 6355 6354 6355 6354 6344 6345 6902 6904 6905	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Mex Key Wrench Smart Monkey Wrench Adjustable Angle Wrench Socket Wrench Set Socket Wrench Set Socket Wrench Set Socket Wre	3 3
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWH-01 TWH-02 TWH-04 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-24 TWH-25 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-29 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-29 TWH-20 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWM-02 TWM-03 TWS-04 TWS-05 TZ-02 TZ-	6225 6230 6240 6250 6260 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6318 6324 6325 0324 6325 0324 6351 6352 6353 6354 6355 6354 6344 6345 6341 6342 6343 6344 6345 6344 6345 6303 6344 6345 6903 6903 6904	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench Adjustable Angle Wrench Socket Wrench Set	333333333333333333333333333333333333
TWB-25 TWB-30 TWB-30 TWB-40 TWB-50 TWB-60 TWB-80 TWH-01 TWH-02 TWH-11 TWH-12 TWH-13 TWH-14 TWH-15 TWH-16 TWH-17 TWH-18 TWH-20 TWH-21 TWH-22 TWH-23 TWH-24 TWH-25 TWH-26 TWH-27 TWH-28 TWH-20 TWH-20 TWH-20 TWH-20 TWM-01 TWM-02 TWM-03 TWM-04 TWS-01 TWS-01 TW	6225 6230 6240 6260 6200 6301 6302 6304 6311 6312 6313 6314 6315 6316 6317 6322 6321 6322 6323 6324 6325 Discon. 6351 6352 6353 6354 6355 6354 6355 6354 6344 6345 6902 6904 6905	Ball Point Hex Wrench Hex Key Wrench Set Hex Key Wrench Set Hex Key Wrench Mex Key Wrench Smart Monkey Wrench Adjustable Angle Wrench Socket Wrench Set Socket Wrench Set Socket Wrench Set Socket Wre	3 3

Ζ			
TEM No.	CODE No	ITEM	PAGE
	9001	Conductive Foam	81
ZC-02	9002	Conductive Foam	81
	Discon.	Conductive Foam	$\overline{\mathbf{X}}$
	Discon.		K
	Discon.	Handy Grease Spray	$\overline{\mathbf{x}}$
		Silicon Oil	K
	Discon.		K
		Tap & Drill Oil	K
		Rust Preventive	ĸ
		Silicon Grease	K
	Discon.		ĸ
	9019	Oiler	84
	9028	Rust Remover	84
		Aero Duster	$\overline{\mathbf{X}}$
		Aero Duster	K
	9038	Dust-Free Gloves (S)	82
	9039	Dust-Free Gloves (M)	82
	9040	Dust-Free Gloves (L)	82
	9041	Dust-Free Gloves (S)	82
	9042	Dust-Free Gloves (M)	82
	9043	Dust-Free Gloves (L)	82
	9044	Static Conductive Gloves (S)	82
	9045	Static Conductive Gloves (M)	82
	9046	Static Conductive Gloves (M)	82
	9047	Static Conductive Gloves (E)	82
	9048	Static Conductive Gloves (B)	82
	9049	Static Conductive Gloves (M)	82
	9050	Wrist Strap	81
	9051	Anti-Static Gloves (S)	82
	9052	Anti-Static Gloves (M)	82
	9053	Anti-Static Gloves (L)	82
	9054	Anti-Static Gloves (C)	82
	9055	Anti-Static Gloves (G)	82
	9055	Anti-Static Gloves (M)	82
	9062	Ground Cord	83
	9063	Connective Plate	83
	9063	Flux	74
	9070	Flux Dispenser	74
	9080	Anti-Static Service Kit	81
	9080	Static Conductive Bag	82
	9082	Static Conductive Bag	82
	9086	Static Conductive Bag	82
	9088	Anti-Static Bag	82
	9092	Anti-Static Bag	82
	9094	Anti-Static Bag	82
		-	83
	10101		
ZCM-01	9121	Conductive Colored Mat 10M	-
ZCM-01	9122	Conductive Colored Mat 10M Conductive Colored Mat 2M Conductive Colored Mat 1M	83

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 72820
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