

No. TD-6800 Series Ratchet Screwdriver











This functionally enhanced screwdriver enables screw tightening by simple repeated wrist movements.

Improved gear strength combined with our unique ratchet design makes these screwdrivers suitable for the most strenuous tightening jobs.

No. TD-6804MG Ratchet Screwdriver

Newly developed 72 gear ratchet realizes smooth rotation. You can work by one hand, without grasping over again.

Ratchet series optimal for a confined area						
	Flexible	Plate Ratchet	Screw catcher	Stubby	Driver	Power
At a corner edge	 TD-6700FX-4			 TD-6700W-23		S-13
In a narrow area	 TD-6700FX-4	TD-74/75/76/77/78/79 TD-70/71/72	TD-73MC TX-12MC	 TD-6700W-23		
In a deep recessed area	 TD-6700FX-4				 TD-6800 Series	S-12/13
For force-requiring tightening		TD-74/75/76/77/78/79		 TD-6700W-23	 TD-6800 Series	TD-80 S-12/13 TD-81R/81G/81B



HAND TOOLS

BITS & SOCKETS

ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

GASOLINE ENGINE TOOLS

No. TD-6804MG Ratchet Screwdriver (4-pc bit set)

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- Magnetic bits can be replaced with one-touch.
- Bit insertion part ●6.35mm.



Set content			
Body	length 177mm dia. 28.5mm		
Bits	Φ1, Φ2, Φ3, Φ6 ×25.4mm		
Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235×80×29	5	30	247022

No. TD-6816MG Ratchet Screwdriver (16-pc bit set)

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- 16 types of bits to adapt to various types of work. Magnetic bits can be replaced with one-touch.
- Bit insertion part ●6.35mm.



Set content			
Body	length 177mm dia. 28.5mm		
Bits	Φ1, Φ2, Φ3, Φ6, H2, H2.5, H3, H4, H5, T10H, T15H, T20H, T25H, T27H, T30H, T40H ×25.4mm		
Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235×90×29	5	30	247025

TORX® is a registered trademark of Acument TM Intellectual Properties, LLC (USA). VESSEL has a manufacturing license in Japan and selling same to the world.

No. TD-6808MG Ratchet Screwdriver (8-pc bit set)

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- Stores 8 types of bits including HEX bit. Magnetic bits can be replaced with one-touch.
- Bit insertion part ●6.35mm.



Set content			
Body	length 177mm dia. 28.5mm		
Bits	Φ1, Φ2, Φ3, Φ6, H2.5, H3, H4, H5 ×25.4mm		
Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235×80×29	5	30	247023

No. TD-6700W-23 Ratchet Stubby Screwdriver

- Improves workability in cramped spaces! Stubby type that fits in your hand.
- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
 - Ball-lock bits can be replaced with one-touch.
 - Bit insertion part ●6.35mm.



Set content			
Body	length 77mm dia. 35mm		
Bits	Φ2 / Φ3 × 35mm		
Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
135×70×40	10	60	247026

No. TD-6808TX Ratchet Screwdriver TORX (8-pc bit set)

- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
- The handle is made out of oil-resistance cellulose acetate resin.
- Easy to carry around with cassette type bit storage inside the handle.
- Stores 8 types of bits including TORX bit. Magnetic bits can be replaced with one-touch.
- Bit insertion part ●6.35mm.



Set content			
Body	length 177mm dia. 28.5mm		
Bits	Φ2, Φ3, T10H, T15H, T20H, T25H, T30H, T40H ×25.4mm		
Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235×80×29	5	30	247024

No. TD-6700FX-4 Ratchet Stubby Screwdriver with Flexible Shaft

- Improves workability in cramped spaces! Stubby type that fits in your hand.
- Smoothly click feeling realized by rotating angle of 5° and 72 gears. High strength accomplished by 2 nails supporting the ratchet gear. It can be used for final tightening work.
 - The handle is made out of oil-resistance cellulose acetate resin.
 - Ball-lock bits can be replaced with one-touch.
 - Bit insertion part ●6.35mm.



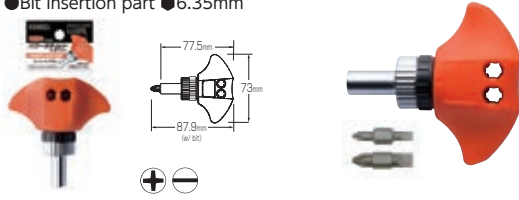
Set content			
Body	length 77mm dia. 35mm		
Bits	Φ1, Φ2, Φ4, Φ6 × 33mm		
Package size (mm)	Inner Ctn.	Outer Ctn.	EDP No.
235×80×40	5	30	247027

Flexible Shaft (length 165mm)

TORX® is a registered trademark of Acument TM Intellectual Properties, LLC (USA). VESSEL has a manufacturing license in Japan and selling same to the world.

No. TD-81 Power Ratchet Screwdriver

- Ratchet fine feed enables to fasten with a little wrist movement.
- Ideal ratchet mechanism for sufficient final tightening.
- 2 double-ended bits (different size combination) can be stored within the handle.
- Bit insertion part ●6.35mm



Model No.	Color	Bits	Package size (mm)	Inner Ctn.	EDP No.
TD-81R	Red	⊕1/⊕4, ⊕2/⊕6×25.4	115×73×34	10	250081

No. TD-80 T-Bar Ratchet Screwdriver

- Ratchet driving mechanism allows you to tighten a screw without adjusting your grip.
- Bit insertion part ●6.35mm



Set content	
Body	T-bar ratchet screwdriver length 78mm dia. 73mm
Bits	⊕1, ⊕2, ⊕3, ⊖4, ⊖6×25.4mm
Accessory	Bit belt holder

Package size (mm)	Outer Ctn.	EDP No.
170×105×28	40	250080



No. 2200 Ball Ratchet Screwdriver

- With 36-teeth gear ratchet to realize comfortable operation with fine tuning.
- Shank cover prevents short circuits. Thin shank is convenient for operating on terminal blocks.



- Shank uses bit materials, fully hardened. Replacement shank is available as option.



No.2200

						Inner Ctn.	Outer Ctn.	EDP No.	
⊖6× 100	6.0	0.8	100	6.0	41	200	6	60	125395
⊖6× 150	6.0	0.8	150	6.0	41	250	6	60	125396
⊕2× 100	⊕No.2		100	6.0	41	200	6	60	125345
⊕2× 150	⊕No.2		150	6.0	41	250	6	60	125346
⊕3× 150	⊕No.3		150	6.0	41	250	6	60	125347

⚠ Electric insulation is not guaranteed. For safety purposes, shut off power before use.

No. 2200B Ball Ratchet Screwdriver Replacement Blade

- Shank uses bit materials, fully hardened.
- Replacement blade; can be replaced by pulling out the ball-grip part of No.2200.



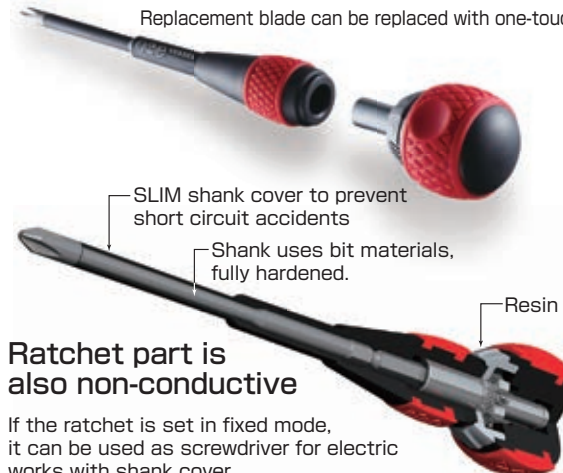
No.2200B

						Inner Ctn.	Outer Ctn.	EDP No.
⊖6× 100	6.0	0.8	100	6.0	158	6	60	125397
⊖6× 150	6.0	0.8	150	6.0	208	6	60	125398
⊕2× 100	⊕No.2		100	6.0	158	6	60	125348
⊕2× 150	⊕No.2		150	6.0	208	6	60	125349
⊕3× 150	⊕No.3		150	6.0	208	6	60	125350

One point

Shanks are detachable from the ratchet part

Replacement blade can be replaced with one-touch.



Ratchet part is also non-conductive

If the ratchet is set in fixed mode, it can be used as screwdriver for electric works with shank cover.

It is most suitable for working on distribution boards.

HAND TOOLS

BITS & SOCKETS

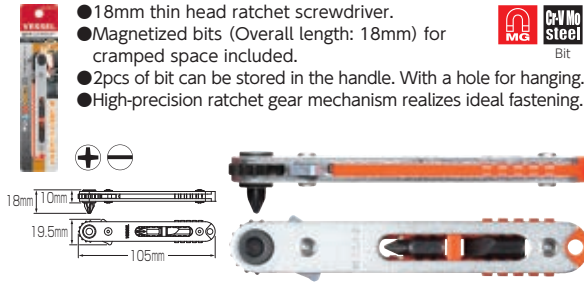
ELECTRIC TOOLS

AIR TOOLS

STATIC SOLUTIONS

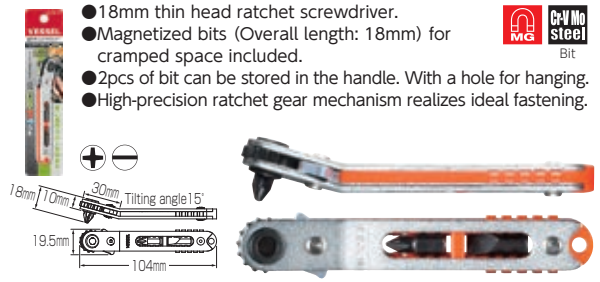
GASOLINE ENGINE TOOLS

No. TD-74 Flat-shaped Ratchet Screwdriver (straight type)



Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-74	Flat-shaped Ratchet Screwdriver (Straight type) Bits $\Phi 1, \Phi 2, \text{E}6 \times 18\text{mm}$	160×35×21	10	250074

No. TD-77 Flat-shaped Ratchet Screwdriver (bent-up type)



Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-77	Flat-shaped Ratchet Screwdriver (Angled type) Bits $\Phi 1, \Phi 2, \text{E}6 \times 18\text{mm}$	160×35×21	10	250077

No. TD-75 Flat-shaped Ratchet Screwdriver (straight type)



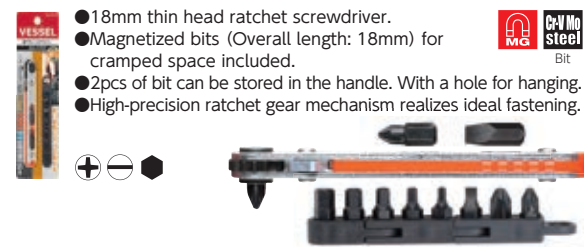
Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-75	Flat-shaped Ratchet Screwdriver (Straight type) Bits $\Phi 1, \Phi 2, \Phi 3, \text{E}4, \text{E}6 \times 18\text{mm}$ Bit holder	160×50×21	10	250075

No. TD-78 Flat-shaped Ratchet Screwdriver (bent-up type)



Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-78	Flat-shaped Ratchet Screwdriver (Angled type) Bits $\Phi 1, \Phi 2, \Phi 3, \text{E}4, \text{E}6 \times 18\text{mm}$ Bit holder	160×50×21	10	250078

No. TD-76 Flat-shaped Ratchet Screwdriver (straight type)



Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-76	Flat-shaped Ratchet Screwdriver (Straight type) Bits $\Phi 1, \Phi 2, \Phi 3, \text{E}4, \text{E}6, \text{H}2.5, \text{H}3, \text{H}4, \text{H}5, \text{H}6 \times 18\text{mm}$ Bit holder	160×50×21	10	250076

No. TD-79 Flat-shaped Ratchet Screwdriver (bent-up type)



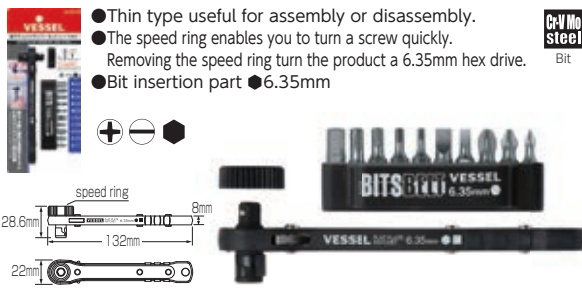
Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-79	Flat-shaped Ratchet Screwdriver (Angled type) Bits $\Phi 1, \Phi 2, \Phi 3, \text{E}4, \text{E}6, \text{H}2.5, \text{H}3, \text{H}4, \text{H}5, \text{H}6 \times 18\text{mm}$ Bit holder	160×50×21	10	250079

No. TD-B5 18mm replacement bits



Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-B55	Bits $\Phi 1, \Phi 2, \Phi 3, \text{E}4, \text{E}6 \times 18\text{mm}$ Bit holder	120×40×23	10	251304
TD-B56	Bits $\text{H}2.5, \text{H}3, \text{H}4, \text{H}5, \text{H}6 \times 18\text{mm}$ Bit holder	120×40×23	10	251305

No. TD-70 Flat Plate Ratchet Screwdriver Set



- Thin type useful for assembly or disassembly.
- The speed ring enables you to turn a screw quickly.
- Removing the speed ring turn the product a 6.35mm hex drive.
- Bit insertion part ●6.35mm

Cr-V Mo steel Bit

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver	190×85×27	40	250070
Bits	⊕1, ⊕2, ⊕3, ⊖4, ⊖6, H2.5, H3, H4, H5, H6×25.4mm			
Accessory	Bit belt holder			

No. TD-73MC Plate Ratchet Screw Catcher

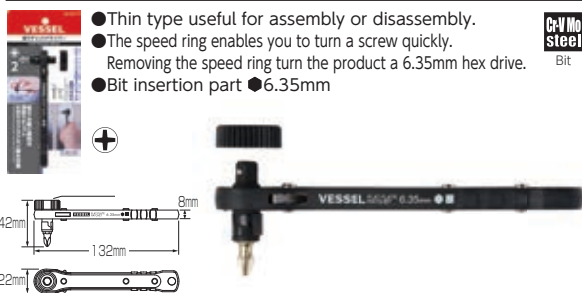


- Magnet catches a screw firmly.
- Also provided with hex screw bits for furniture assembly and for bicycles.
- The speed ring enables you to turn a screw quickly.
- Removing the speed ring turn the product a 6.35mm hex drive.
- Bit insertion part ●6.35mm

MG Cr-V Mo steel Screw holder Bit

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver	190×85×27	40	250073
Bits	⊕1, ⊕2, ⊕3, ⊖4, ⊖6, H 2.5, 3, 4, 5, 6×25.4mm			
Accessory	Magnetic Screw Holder Bit belt holder			

No. TD-71 Flat Plate Ratchet Screwdriver



- Thin type useful for assembly or disassembly.
- The speed ring enables you to turn a screw quickly.
- Removing the speed ring turn the product a 6.35mm hex drive.
- Bit insertion part ●6.35mm

Cr-V Mo steel Bit

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver	190×85×27	40	250071
Bit	⊕2×25.4mm			

No. TX-12MC Plate Ratchet/Magnetic Screw Catcher (TORX)



- Magnet catches a screw firmly.
- Also provided with Torx bits popular in the maintenance. Also used for tamper-proof torx screws.
- The speed ring enables you to turn a screw quickly.
- Removing the speed ring turn the product a 6.35mm hex drive.
- Bit insertion part ●6.35mm

MG Cr-V Mo steel Screw holder Bit

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver	190×85×27	10	252022
Bits	T8H, T10H, T15H, T20H, T25H, T27H, T30H, T40H, ⊕2, ⊖6×25.4mm			
Accessory	Magnetic Screw Holder Bit belt holder			

No. TD-72 Flat Plate Ratchet Screwdriver Set



- Thin type useful for assembly or disassembly.
- The speed ring enables you to turn a screw quickly.
- Removing the speed ring turn the product a 6.35mm hex drive.
- Bit insertion part ●6.35mm

Cr-V Mo steel Cr-V steel Bit Socket

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver	190×85×27	40	250072
Bit	⊕2×25.4mm			
Sockets	A/F 5.5, 7, 8, 10×26mm			
Accessory	Socket holder			

No. TX-11 Plate Ratchet TORX Set



- Storage holder included. For working with tamper-proof screws.
- The speed ring enables you to turn a screw quickly.
- Thin ratchet handle for working in cramped places. Ball locking system.
- Can be used with 6.35 mm across flats short bits and 6.35 mm square hole sockets.

Cr-V Mo steel Bit

Set content		Package size (mm)	Inner Ctn.	EDP No.
Body	Plate ratchet screwdriver	190×85×27	10	252021
Bits	T8H, T10H, T15H, T20H, T25H, T27H, T30H, T40H, ⊕2, ⊖6×25.4mm			
Accessory	Magnetic Screw Holder Bit belt holder			

TORX® is a registered trademark of Acument TM Intellectual Properties, LLC (USA). VESSEL has a manufacturing license in Japan and selling same to the world.

HAND TOOLS

BITS & SOCKETS

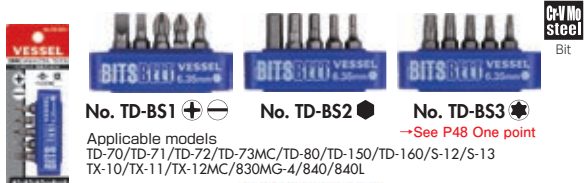
ELECTRIC TOOLS




AIR TOOLS

STATIC SOLUTIONS


GASOLINE ENGINE TOOLS

No. TD-BS Replacement Bit Set



No. TD-BS1  **No. TD-BS2**  **No. TD-BS3** 

Applicable models
TD-70/TD-71/TD-72/TD-73MC/TD-80/TD-150/TD-160/S-12/S-13
TX-10/TX-11/TX-12MC/830MG-4/840/840L

No. TD-BS4 


Applicable models
TD-70/TD-71/TD-72
TD-170
TX-11/TD-73MC
TX-12MC

Cr-V Mo steel Bit
Cr-V steel socket

Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
TD-BS1	Φ1, Φ2, Φ3, Φ4, Φ6 ×25.4mm Bit belt holder	120×45×23	10	251300
TD-BS2	H 2.5, 3, 4, 5, 6 ×25.4mm Bit belt holder	120×45×23	10	251301
TD-BS3	T10H, T15H, T20H, T25H, T30H ×25.4mm Bit belt holder	120×45×23	10	251302
TD-BS4	A/F 5.5, 7, 8, 10 Socket holder	120×45×23	10	251303

TORX® is a registered trademark of Acument TM Intellectual Properties, LLC (USA). VESSEL has a manufacturing license in Japan and selling same to the world.

No. TD-64 "PETADORA" Z-shaped Offset Screwdriver



- S-shaped type good for strong tightening in cramped spaces.
- Special plating to keep precision at the tip.

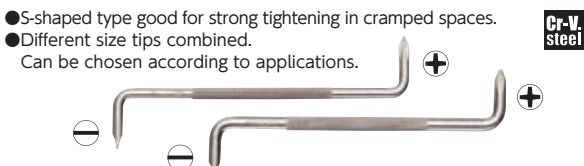
Cr-V steel

No. TD-64

	Φ2/Φ6	Φ1/Φ2	ΦNo.1	ΦNo.2	Inner Ctn.	Outer Ctn.	EDP No.
6	0.9 / 18	6 / 129	10	100	250122		
2	16.5 / 5	126	10	100	250121		

Package size...160×35×12mm

No. 25 Offset Screwdriver



- S-shaped type good for strong tightening in cramped spaces.
- Different size tips combined.
- Can be chosen according to applications.

Cr-V steel

No.25

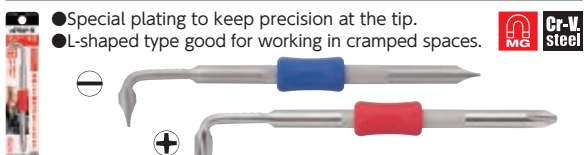
	Φ1/Φ5	Φ2/Φ6	Φ3/Φ8	Inner Ctn.	EDP No.
25	5	125	12	143005	
26	6	125	12	143006	
33	8	150	12	143007	

Package size...160×35×12mm

No. 251526 2-Piece Offset Screwdriver Set

Model No.	Set content	Package size (mm)	Inner Ctn.	EDP No.
251526	No.25 Φ6/Φ2, Φ5/Φ1	210×70×10	20	243011

No. TD-61 "PETADORA" L-shaped Offset Screwdriver



- Special plating to keep precision at the tip.
- L-shaped type good for working in cramped spaces.


Cr-V steel

No. TD-61

	6	Φ1	Φ2	Cushion Grip color (mm)	Inner Ctn.	Outer Ctn.	EDP No.
6	0.9	18	6	117 Blue	10	100	250105
Φ1	ΦNo.1	16.5	5	105 Green	10	100	250101
Φ2	ΦNo.2	18	6	117 Red	10	100	250102

Package size...160×35×14mm

No. TD-63 "PETADORA" L-shaped Offset Screwdriver



- Special plating to keep precision at the tip.
- L-shaped type good for working in cramped spaces.

Cr-V steel

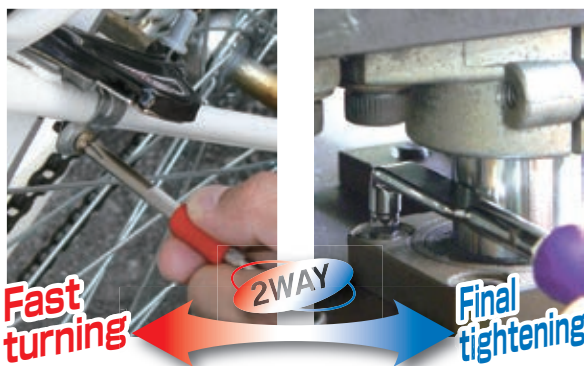
No. TD-63

	H 2.5	H 3	H 4	H 5	Cushion Grip color (mm)	Inner Ctn.	Outer Ctn.	EDP No.
H 2.5	2.5	16.5	5	105	Orange	10	100	250112
H 3	3	16.5	5	105	Purple	10	100	250113
H 4	4	16.5	5	105	Black	10	100	250114
H 5	5	18	6	117	Blue	10	100	250115

Package size...160×35×14mm

One point

Speedy fast-turning, firm tightening



This one product can be used from fast-turning to tightening!

An evolution of offset screwdriver with all the required functions for tightening screws.

No. 83L LED Voltage Detection Screwdriver

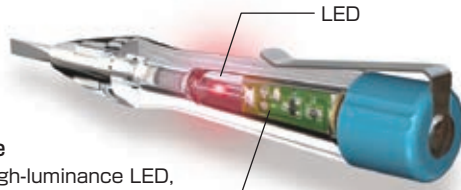
- For conduction/ continuity test in general household.
- Long-life LED lights brightly. Batteries can be replaced.
- Handy pencil-type screwdriver.



Voltage detection range	4.0	0.45	20	17.5	130	Package size (mm)	Inner Ctn.	EDP No.
100 to 250V AC						185×70×16	10	125106

One point

Conductivity check of electrical wiring tools



LED type
 Uses a high-luminance LED, allowing you to check electrical conductivity easily even in a bright location
 Batteries are consumables and need to be replaced.

Conductivity check / polarity discrimination Continuity test



A conductivity check of electrical wiring or receptacle and polarity discrimination of AC hot-line and ground sides



Continuity check of a wiring circuit
 Make sure that no power is applied to the circuit before checking continuity.

No. TD-1300L

6-Piece Voltage Detection Screwdriver Set

- Neon tube integrated into the grip end. When contacting the current-carrying point, the neon tube lights and continuity test can be conducted. **Cr-V steel**
- Resin chuck enables to replace the blades. Lightweight resin grip, with a transparent end-cap at the grip edge.
- Frequently used 6 types of blade in a pack.
- Provided in a handy transparent vinyl carrying and storage pouch.
- Low voltage type (100 to 250V AC)



No. TD-1300L

Voltage detection range	Reversible blade content (mm)			Pin extractor	Inner Ctn.	EDP No.
	⊖	⊕	Awl			
100 to 250V AC	⊖4×125	⊕1×125	125	125	10	247021
	⊖6×125	⊕2×125				
Handle length 126.4mm dia. 26.5mm						

*Package size--185×105×31mm

No. TD-1300B

5-Piece Voltage Detection Screwdriver Set

- Neon tube integrated into the grip end. When contacting the current-carrying point, the neon tube lights and continuity test can be conducted. **Cr-V steel**
Except Socket
- Resin chuck enables to replace the blades. Lightweight resin grip, with a transparent end-cap at the grip edge.
- A small diameter type socket suitable for small screws included in replacement blade set.
- Handy vinyl carrying and storage pouch
- Low voltage type (100 to 250V AC)



No. TD-1300B

Voltage detection range	Reversible blade content (mm)			Inner Ctn.	EDP No.
	⊖	⊕	Socket		
100 to 250V AC	⊖4×125	⊕1×125	A/F5 ×125	10	247031
		⊕2×125	A/F5.5×125		
Handle length 126.4mm dia. 26.5mm					

*Package size--185×105×31mm

HAND TOOLS
 BITS & SOCKETS
 ELECTRIC TOOLS
 AIR TOOLS
 STATIC SOLUTIONS
 GASOLINE ENGINE TOOLS

No. 240001 Impact Driver

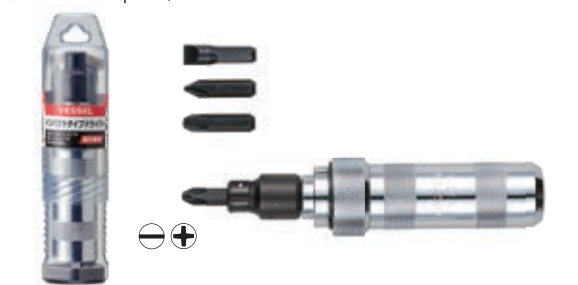
- One-touch switching of the rotation direction.
- Soft non-slip resin handle, comfortable to grip. Designed for less shock on hands.
- For heavy-duty use.
- If the bit adapter is detached, a 12.7 mm socket can be attached.
- Bit insertion part ●8mm



Set content		Package size (mm)	Outer Ctn.	EDP No.
Bits	Φ2×36, Φ2×80, Φ3×36, Φ3×80, Φ4×36, Φ10×36			
Body	length 176mm dia. 37.5mm	220×73×80	5	246051

No. 250001 Impact Driver

- Effective for very tight fastening and loosening rusted screws.
- Suited for automobile maintenance, and assembly and disassembly of machinery and equipment.
- For heavy-duty use.
- If the bit adapter is detached, a 12.7 mm socket can be attached.
- Bit insertion part ●8mm



Set content		Package size (mm)	Outer Ctn.	EDP No.
Bits	Φ10, Φ2, Φ3, Φ4×36			
Body	length 166mm dia. 32mm	325×80×38	5	246001

No. 260002 Impact Uni Driver

- Thin handle. Can be used as normal screwdriver.
- Long shank bit. Ideal for hard-to-reach cramped spaces.
- Bit insertion part ●6.35mm



Set content		Package size (mm)	Outer Ctn.	EDP No.
Bits	Φ5, Φ6, Φ7, Φ1, Φ2, Φ3×125			
Body	length 132.5mm dia. 26mm	225×110×33	5	246016

No. C50 Impact Driver Bit



Model No.	Set content	Applicable models	Package size (mm)	Inner Ctn.	EDP No.
C502125	Φ2×125	260002	170×42	10	486212
C503125	Φ3×125	260002	170×42	10	486213
C506125	Φ6×125	260002	170×42	10	486216

▶ For 10-Piece Set, please refer to page 83.

Mounting quantity: 1

No. C51 Impact Driver Bit



Model No.	Set content	Applicable models	Package size (mm)	Inner Ctn.	EDP No.
C512036	Φ2×36	250001, 240001	170×42	10	486201
C513036	Φ3×36	250001, 240001	170×42	10	486202
C518036	Φ8×36	250001, 240001	170×42	10	486203

▶ For 10-Piece Set, please refer to page 83.

Mounting quantity: 1

One point

Removal of a rusted or stuck screw

Hitting the handle with a hammer causes the impact to be converted into rotational force.



The tip turns counterclockwise at the instant when the handle is hit with a hammer.

Loosened by impact acceleration