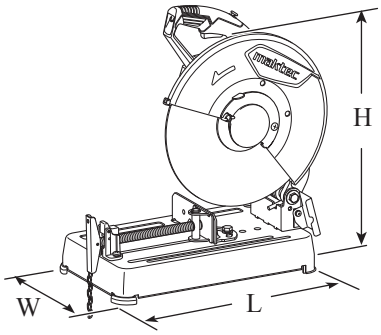
TECHNICAL INFORMATION

maktec by Makita

PRODUCT

Models No. ► MT241

Description ► 355mm (14") Portable Cut-Off



Dimensions: mm (")	
Length (L)	500 (19-3/4)
Width (W)	280 (11)
Height (H)	620 (24-3/8)

CONCEPT AND MAIN APPLICATIONS

Model MT241 has been developed as the aesthetic change model of **maktec** MT240, featuring industrial performance and durability at less expense.

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
110	15.0	50/60	1,650	900	2,500
120	15.0	50/60	---	900	2,500
220	9.6	50/60	2,000	1,400	3,000
230	9.2	50/60	2,000	1,400	3,000
240	8.8	50/60	2,000	1,400	3,000

No load speed: min-1= rpm.		3,800	
Wheel size: mm (")	Diameter	355 (14)	
	Arbor	25.4 (1)	
	Thickness	3 (1/8)	
Weight according to EPTA-Procedure 01/2003***1**: kg (lbs)		15.7 (34.6)*2	
Cord length: m (ft)		2.0 (6.6) for Brazil, 2.5 (8.2) for Oceania, 3.0 (9.8) for other countries	
Capacity: mm (")			
Form of materials D: Diameter W: Width H: Height S: Side T: Thickness	Miter angle	0°	45°
	D	ø115 (4-1/2)	ø115 (4-1/2)
	W, H	H x W: 102 (4) x 194 (7-5/8) H x W: 70 (2-3/4) x 233 (9-1/8)	H x W: 115 (4-1/2) x 103 (4-1/16)
	W, H	H x W: 119 (4-11/16) x 119 (4-11/16)	H x W: 106 (4-3/16) x 106 (4-3/16)
	S, T	S x S: 137 (5-3/8) x 137 (5-3/8), T: 10 (3/8)	S x S: 100 (4) x 100 (4), T: 10 (3/8)

***1** with Abrasive cut-off wheel 355

*2 Weight shown above is the model with Center cap.

► Standard equipment

Socket wrench 17 1

Abrasive cut-off wheel 355 1

Note: The standard equipment for the tool shown may vary by country.

► Optional accessories

No

Repair

CAUTION: Repair the machine in accordance with "Instruction manual" or "Safety instructions".

[1] NECESSARY REPAIRING TOOLS

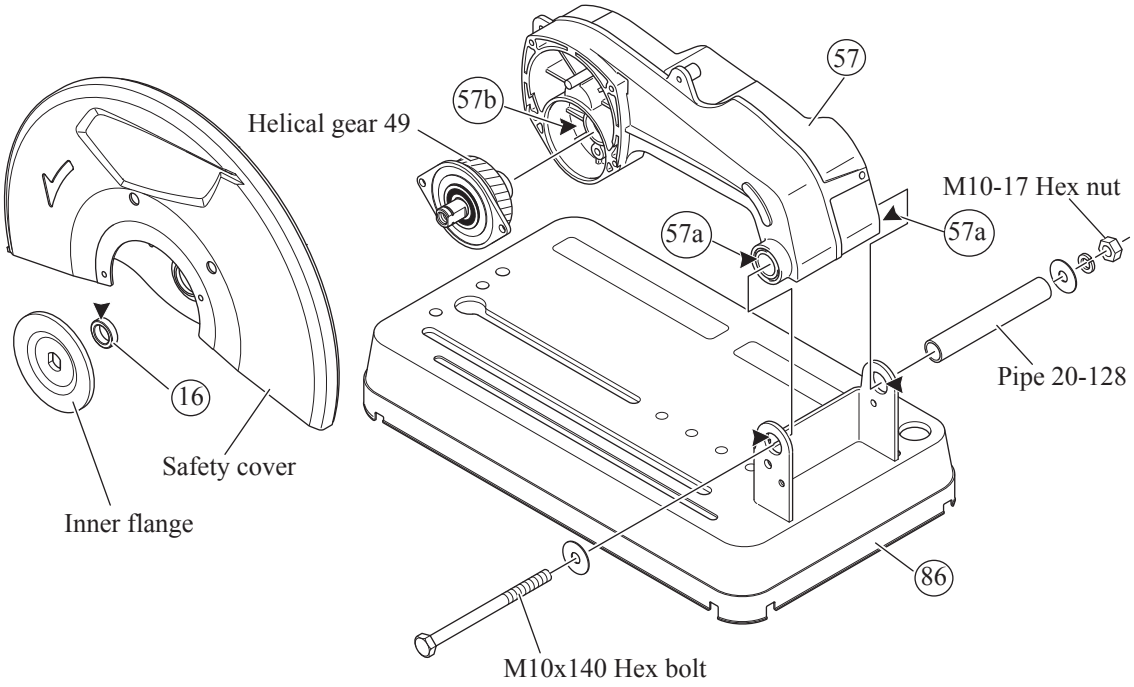
Code No.	Description	Use for
1R003	Retaining Ring S Pliers ST-2N	Removing Pipe 20-128
1R269	Bearing extractor	Removing Ball bearing 6000ZZ from spindle

[2] LUBRICATIONS

Apply the following grease to the portions pointed with triangles to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Lubricant	Amount
(16)	Ring 17	Outside where Safety cover contacts	Makita Grease N No.1	a little
(57)	Gear housing complete	(57a) Surface where (86) Base contacts		2 g
		(57b) Gear room where Helical gear 49 rotates		25 g
(86)	Base	Punched hole for Pipe 20-128 passing		a little

Fig. 1



Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature

DISASSEMBLING

Disassemble Armature (**Fig. 2**, **Fig. 3**).

Fig. 2

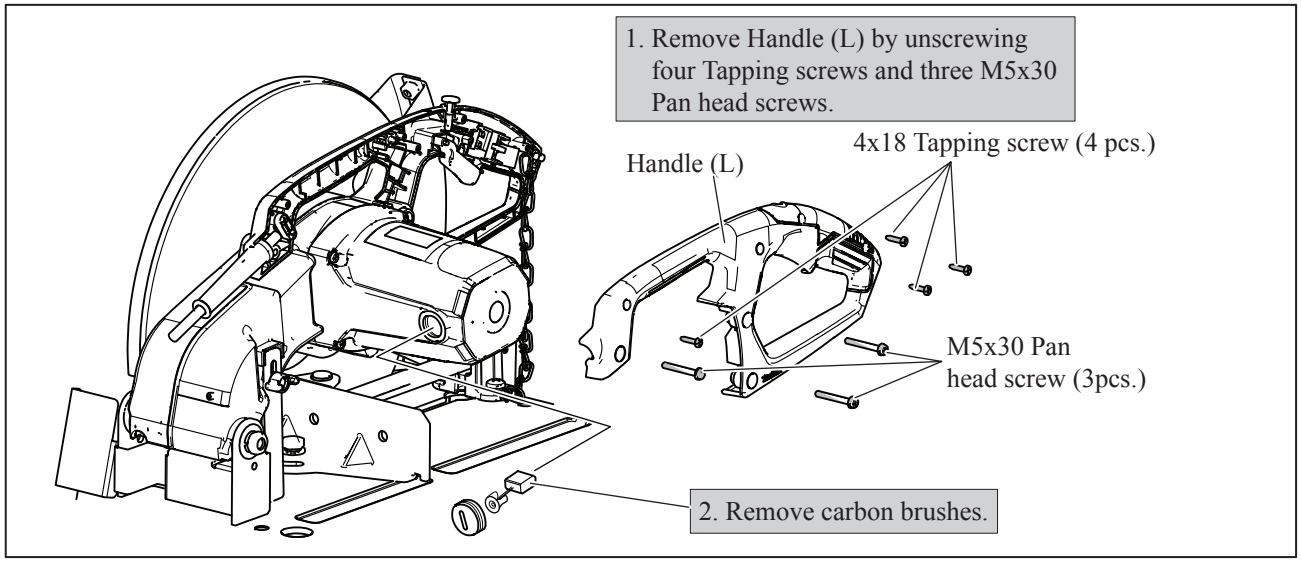
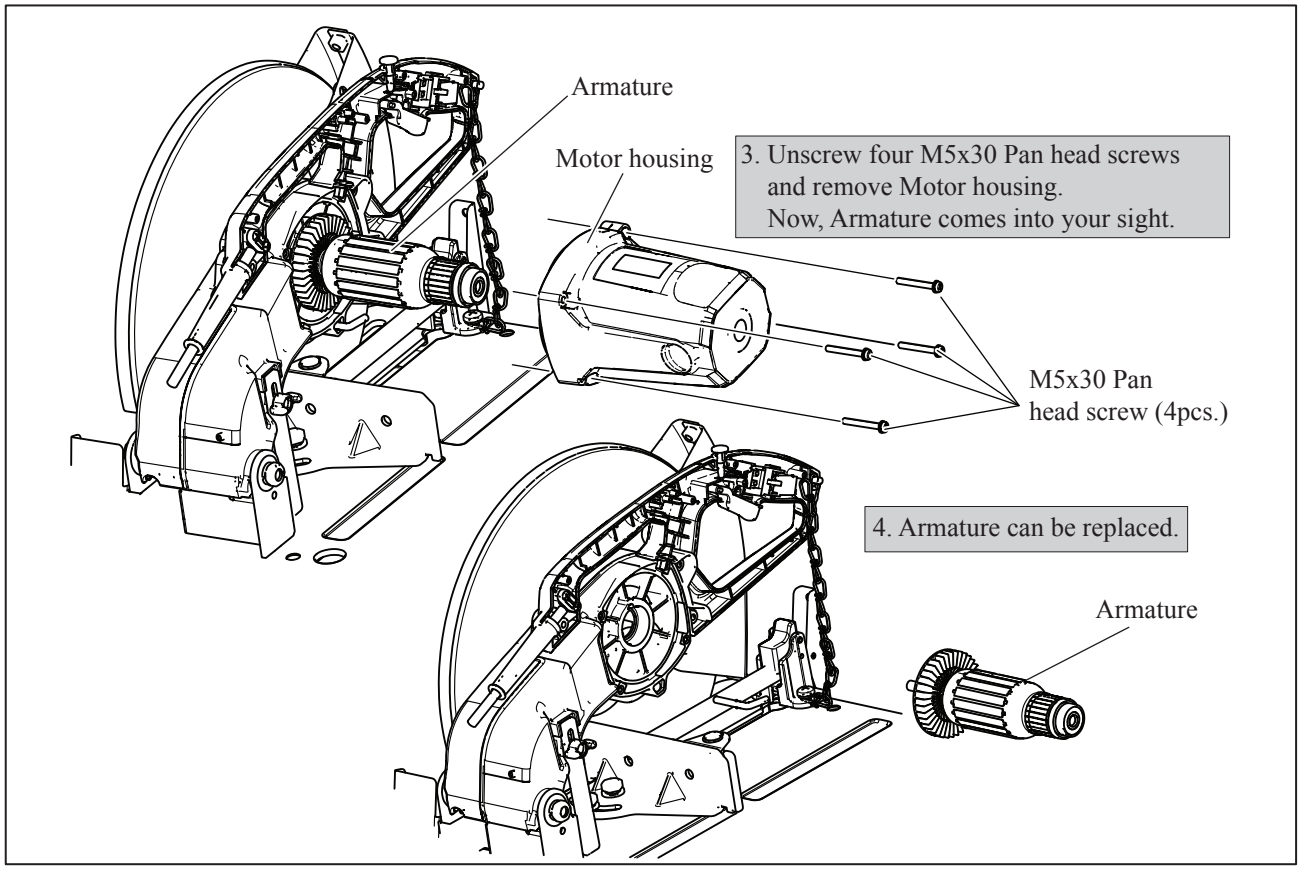


Fig. 3



ASSEMBLING

Take the reverse step of Disassembling (**Fig. 3**, **Fig. 2**).

Repair

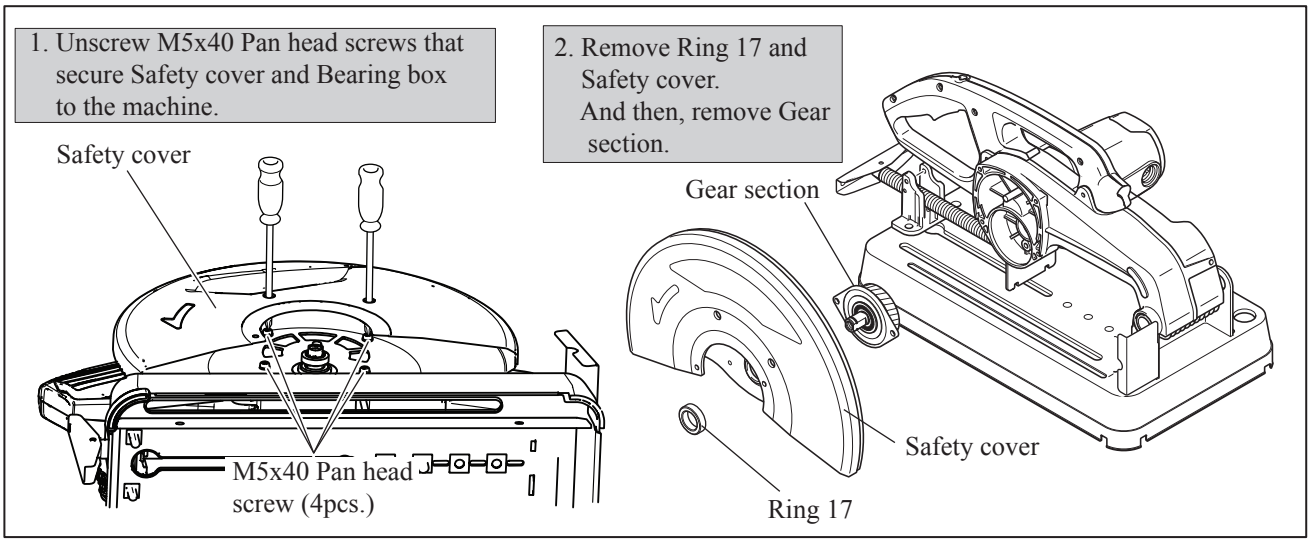
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Helical gear 49

DISASSEMBLING

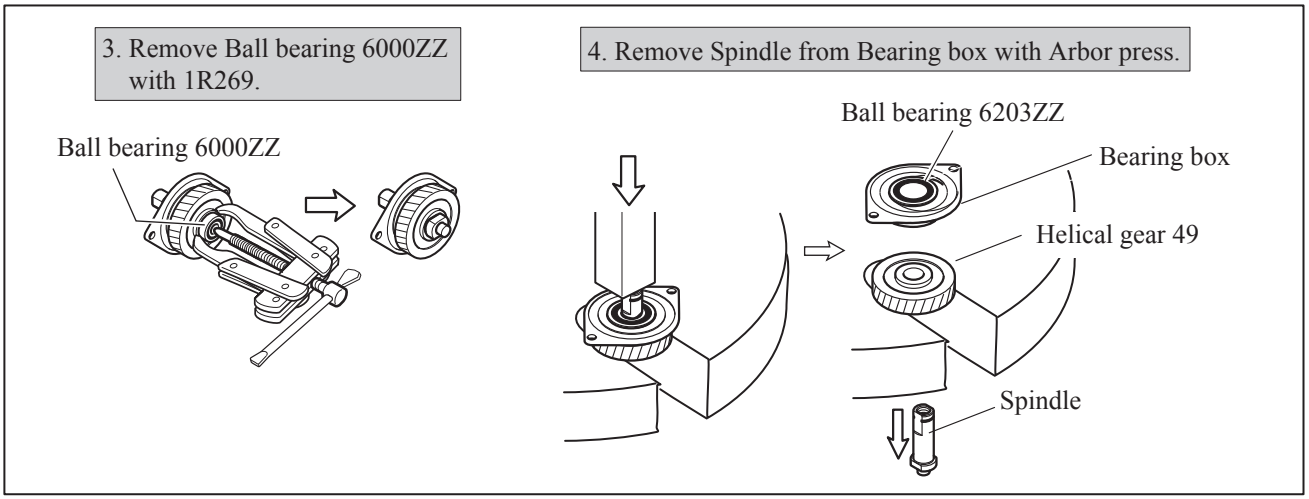
(1) Remove M10x25 Hex flange head bolt, Outer flange, Cut off wheel, O ring 14, Ring 17, Inner flange.
(2) Remove Gear section (**Fig. 4**).

Fig. 4



(3) Disassemble the removed Gear section (**Fig. 5**).

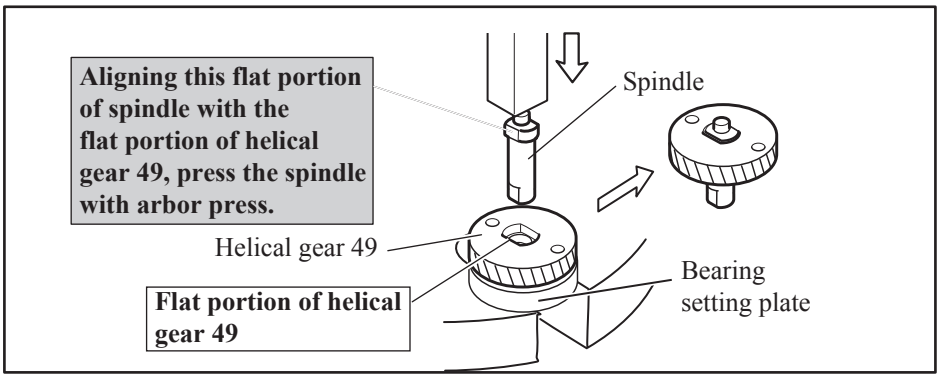
Fig. 5



ASSEMBLING

Take the reverse step of Disassembling **(Fig. 5**, **Fig. 4)**.
Note: Assemble Spindle to Helical gear 49 carefully as described in **Fig. 6**.

Fig. 6



Repair

[3] DISASSEMBLY/ASSEMBLY

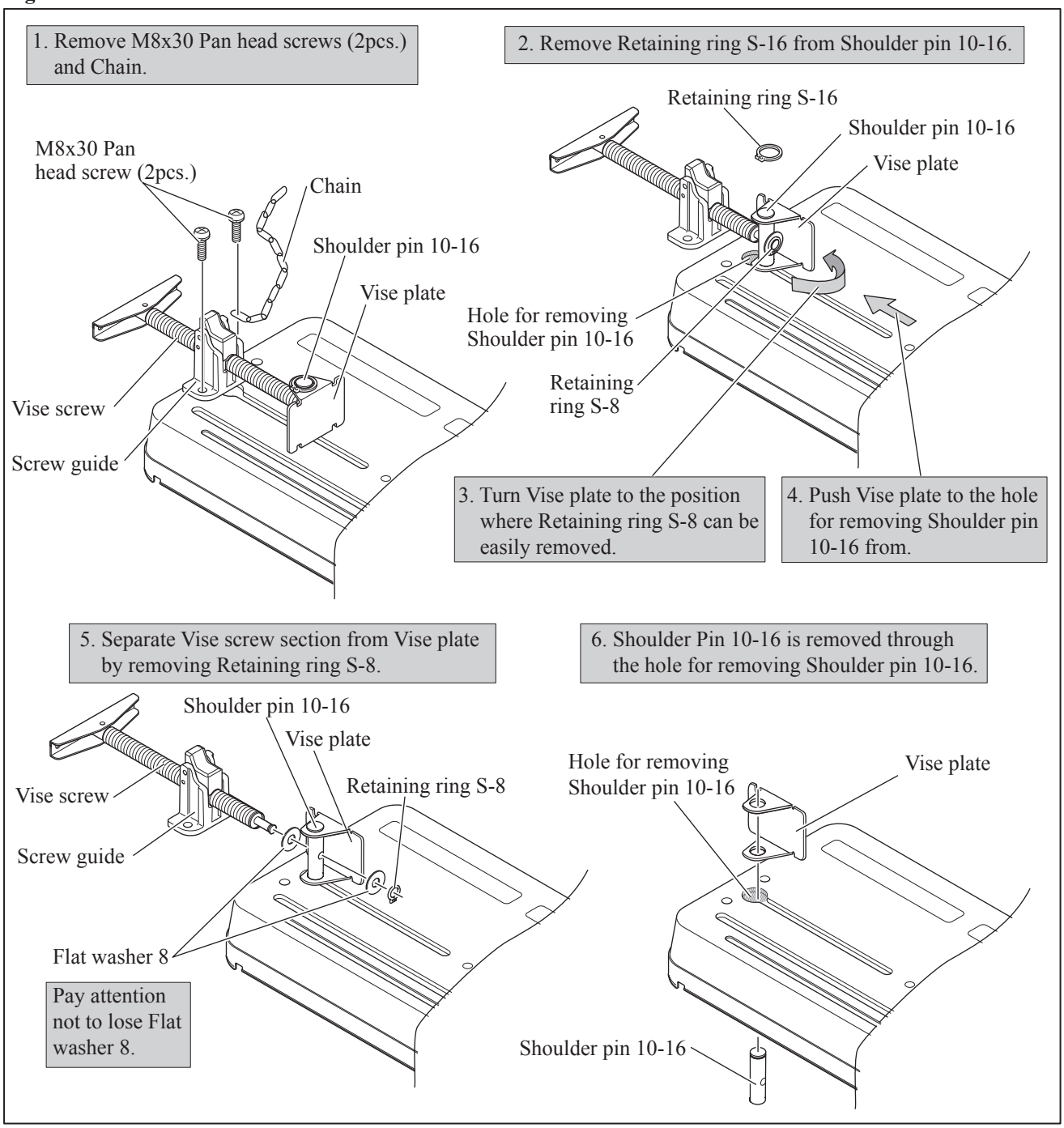
[3]-3. Vise section

DISASSEMBLING

Vise section is fixed to Base as follows.
* at Screw guide with two M8x30 Pan head screws
* by interlocking of Shoulder pin 10-16 with the guide groove on Base

(1) Make Screw guide free from Base by unscrewing two M8x30 Pan head screws.
(2) Separate Vise screw from Vise plate. And remove Shoulder pin 10-16 (**Fig. 7**).

Fig. 7



Repair

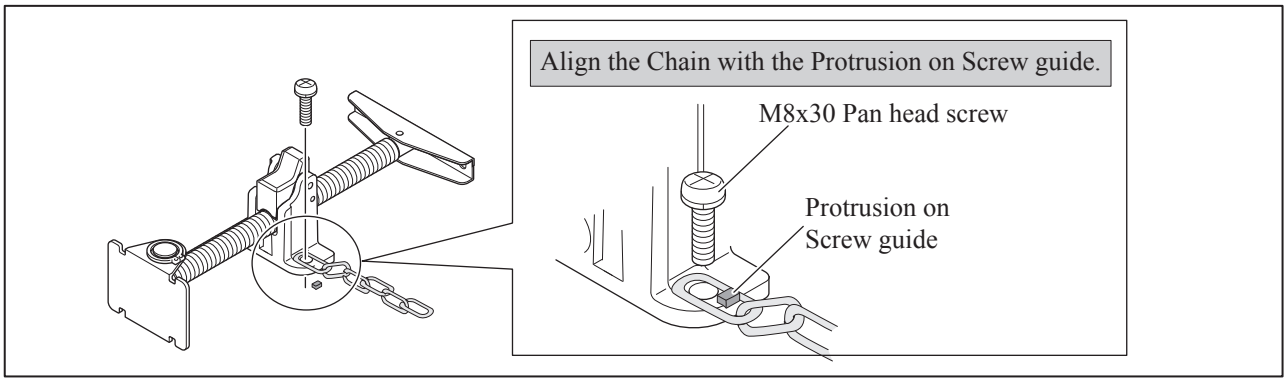
[3] DISASSEMBLY/ASSEMBLY

[3]-3. Vise section

ASSEMBLING

Take the reverse step of Disassembling (**Fig. 7)**.
Chain has to be fixed to Screw guide on the side where Protrusion is furnished (**Fig. 8)**.

Fig. 8



[3]-4. Base

DISASSEMBLING

Disassemble Base from Motor unit (Fig. 9, Fig. 10, Fig. 11).

Fig. 9

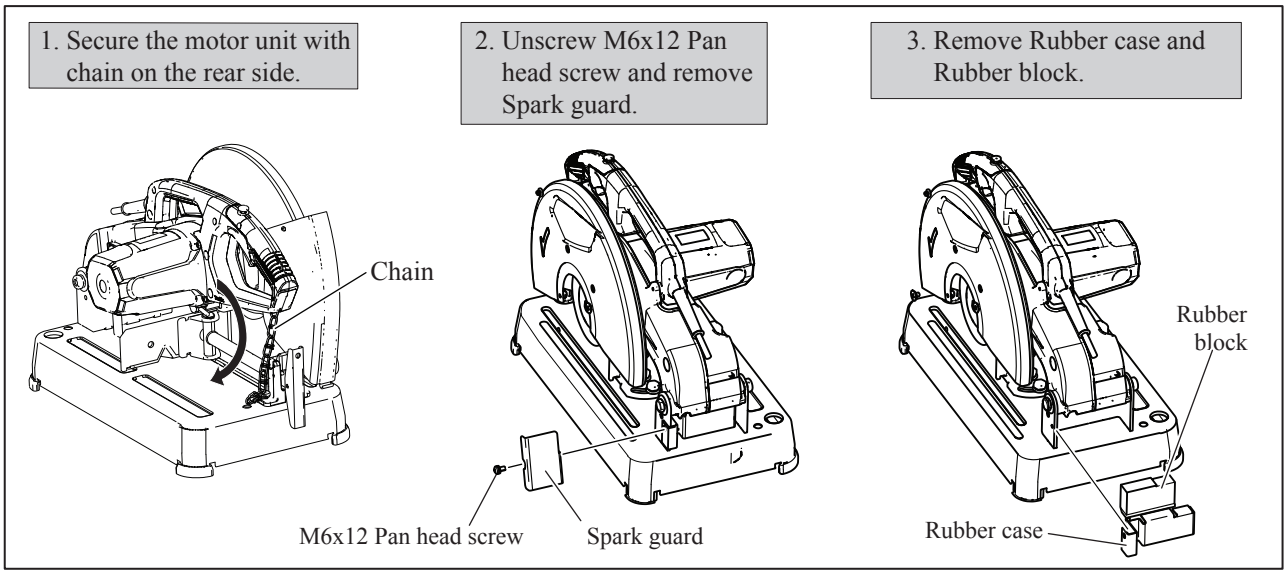
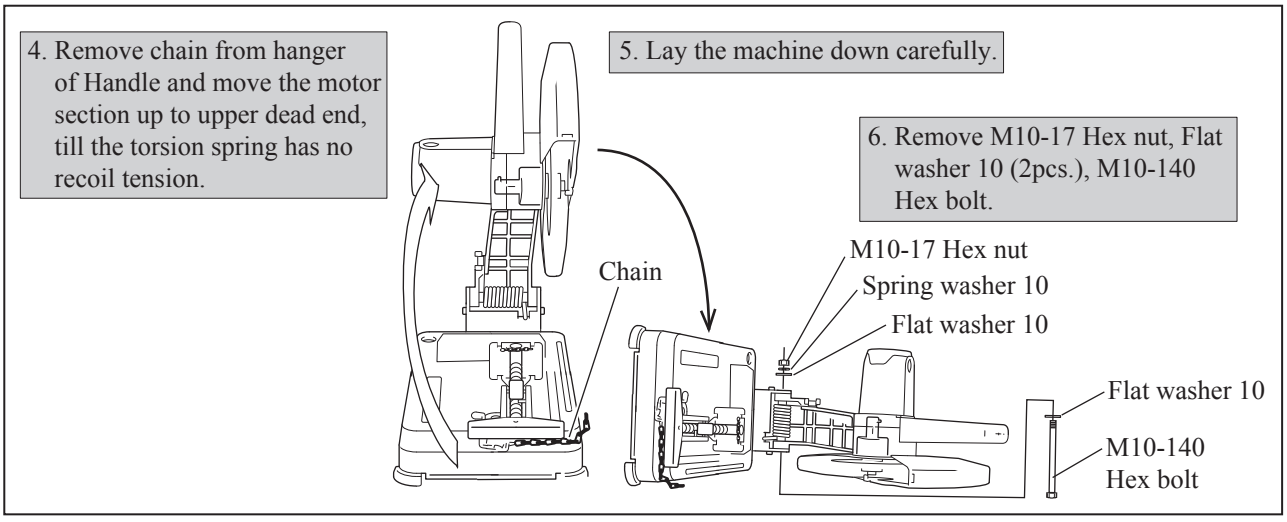


Fig. 10



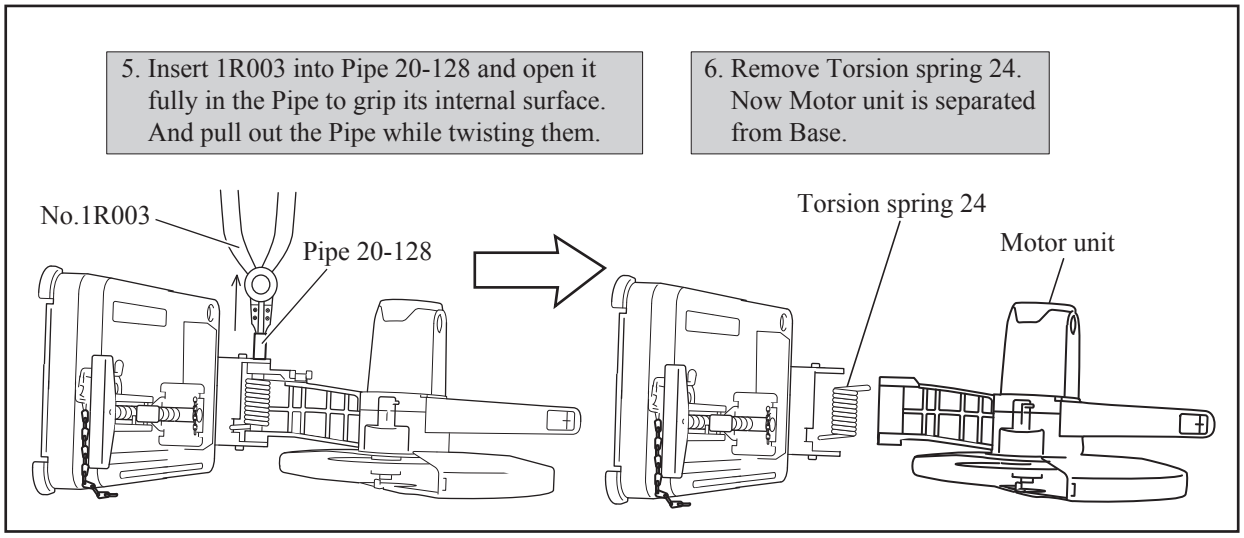
Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-4. Base

DISASSEMBLING

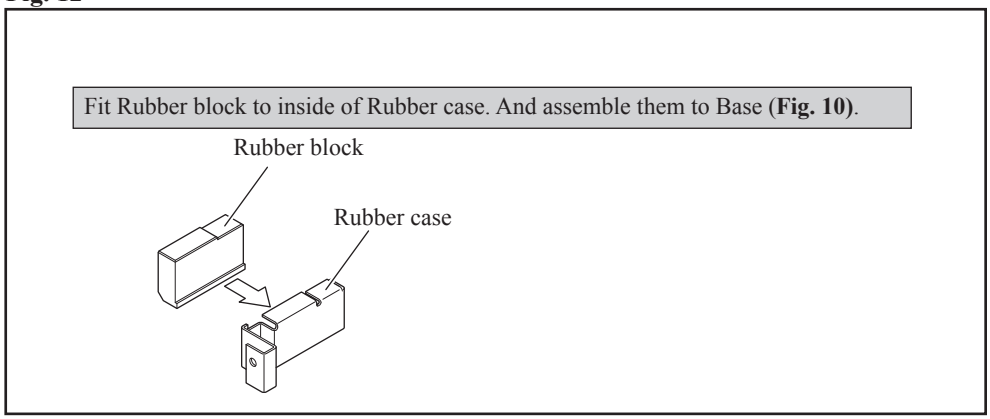
Fig. 11



ASSEMBLING

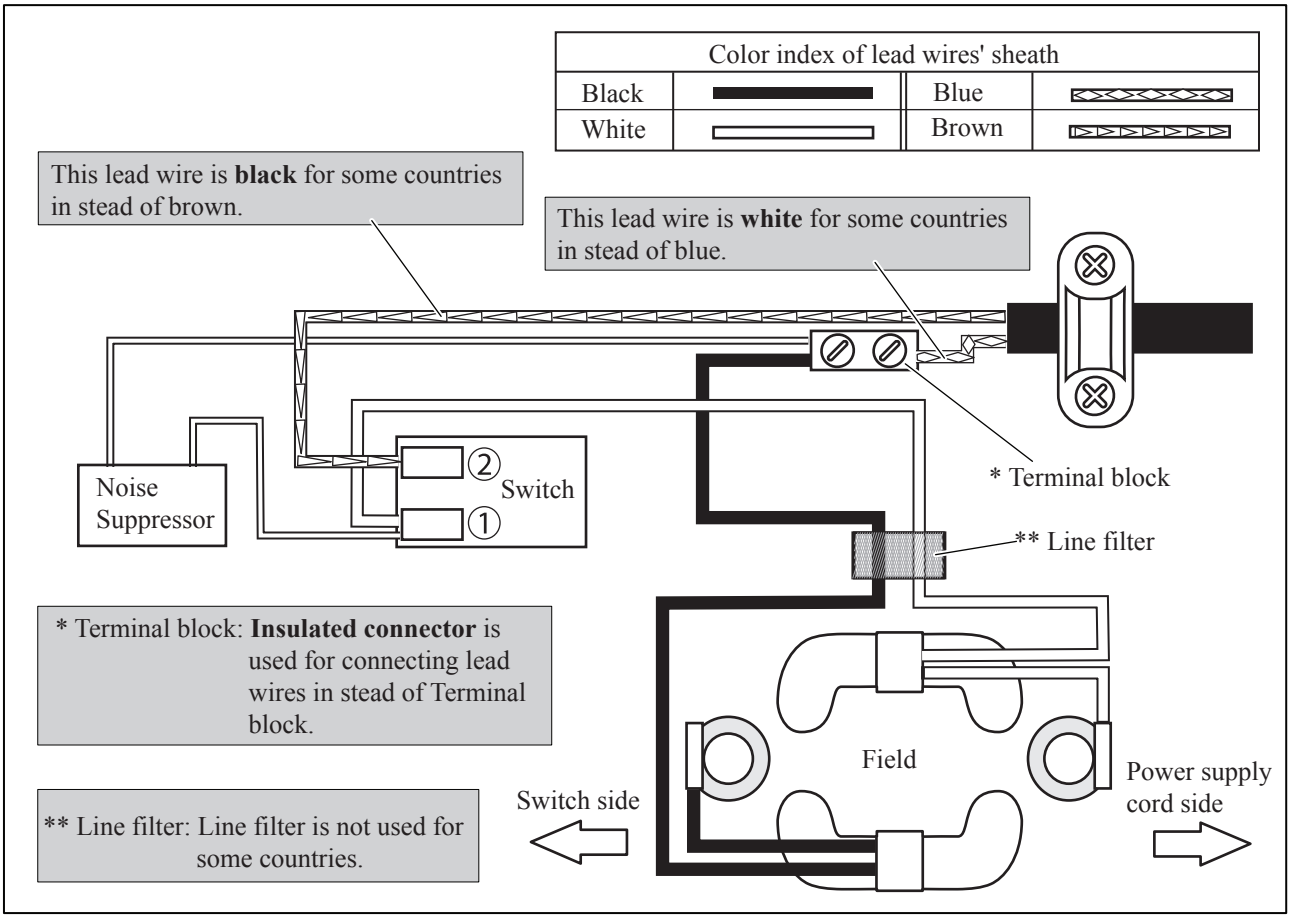
Take the reverse step of Disassembling (**Fig. 11**, **Fig. 10**, **Fig. 9).**
Assemble Rubber block assembly to the base (**Fig. 12**).

Fig. 12



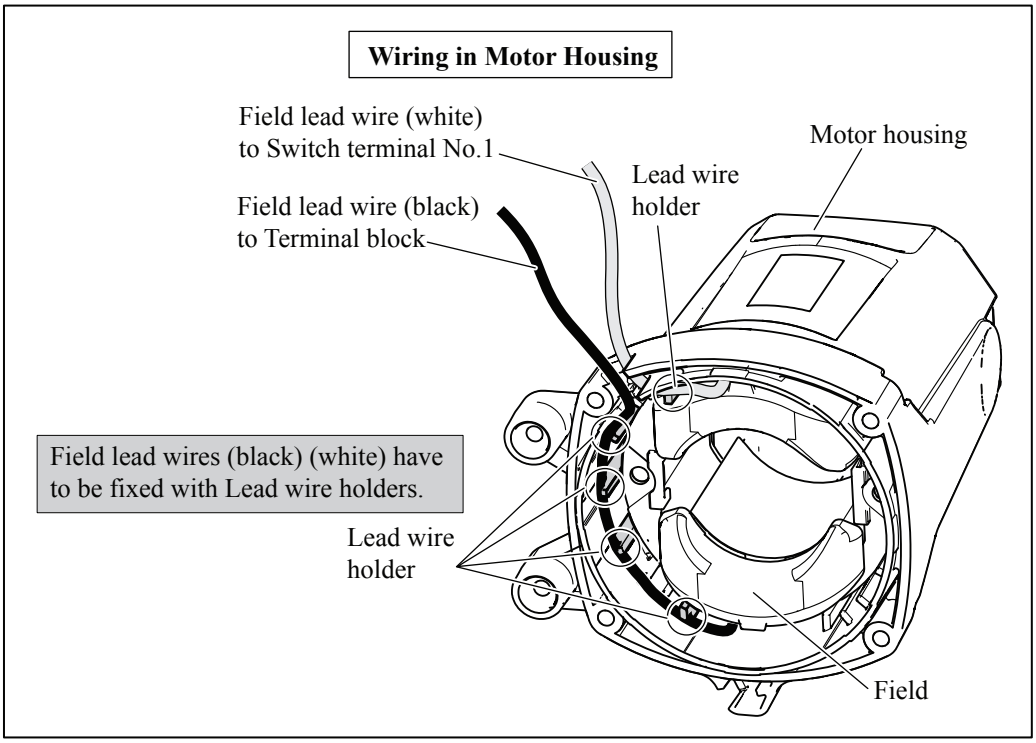
Circuit diagram

Fig. D-1



Wiring diagram

Fig. D-2



Wiring diagram

Fig. D-3