

Model No. ▶ MT191

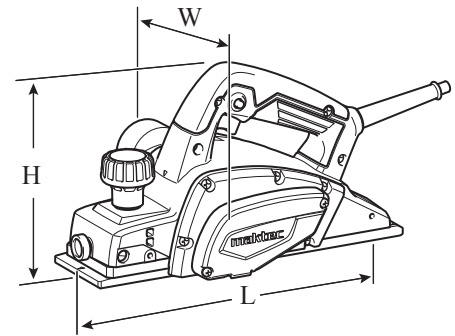
Description ▶ Power Planer 82mm (3-1/4")

CONCEPT AND MAIN APPLICATIONS

Model MT191 has been developed as the aesthetic change model of **maktec** power planer MT190.

Its main features are:

- Industrial performance and durability at less expense
- Due to the Foot added on base plate, the product equipped with lock-on switch can be available even in the countries where lock-off switch is required by regulations.
- Ergonomically designed handle with rubberized soft grip
- European specification unit will be available with Dust nozzle.



Dimensions: mm (")	
Length (L)	285 (11-1/4)
Width (W)	157 (6-3/16)
Height (H)	160 (6-5/16)

► Specification

Voltage (V)	Current*1 (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input*1	Output	
110	4.6	50/60	480	145	550
120	4.0	50/60	----	130	550
220	2.4	50/60	500	225	550
230	2.3	50/60	500	225	550
240	2.5	50/60	580	300	550

No load speed: min -1 = rpm		16,000
Capacities: mm (")	Planing width	82 (3-1/4)
	Planing depth	2 (1/16)
	Shiplapping	9 (11/32)
Protection from electric shock		Double insulation
Power supply cord: m (ft)		2.0 (6.6)
Weight according to EPTA-Procedure 01/2003*2: kg (lbs)		2.7 (6.0)

*1: Values on the name plate may vary by country and district.

*2: with Planer blade, Dust nozzle

► Standard equipment

- Planer blade 82 (re-sharpenable blade or disposable blade) 1 pc
- Sharpening holder assembly 1 pc
- (for unit with re-sharpenable blade only)
- Blade gauge assembly 1 pc
- Socket wrench 9 1 pc
- Guide rule 1 pc
- Dressing stone 1 pc (for Thailand only)

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

► Repair

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

[1] NECESSARY REPAIRING TOOLS

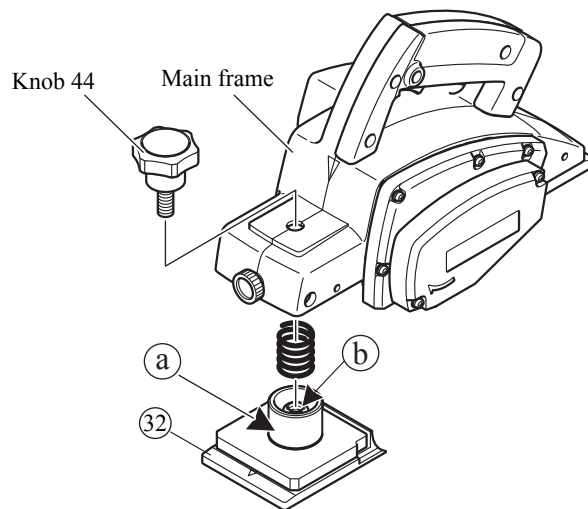
Code No.	Description	Use for
1R045	Gear Extractor	Removing Armature from Bracket
1R269	Bearing Extractor	Removing Ball bearings from Bracket and Armature

[2] LUBRICATIONS

Apply the lubricant oil to the portions pointed with black triangles to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Lubricant	Amount
32	Front Base	a) Drum portion where Main frame's cylindrical portion contacts	VG100	a little
		b) Threaded portion where Knob 44 is driven	VG100	a little

Fig. 1



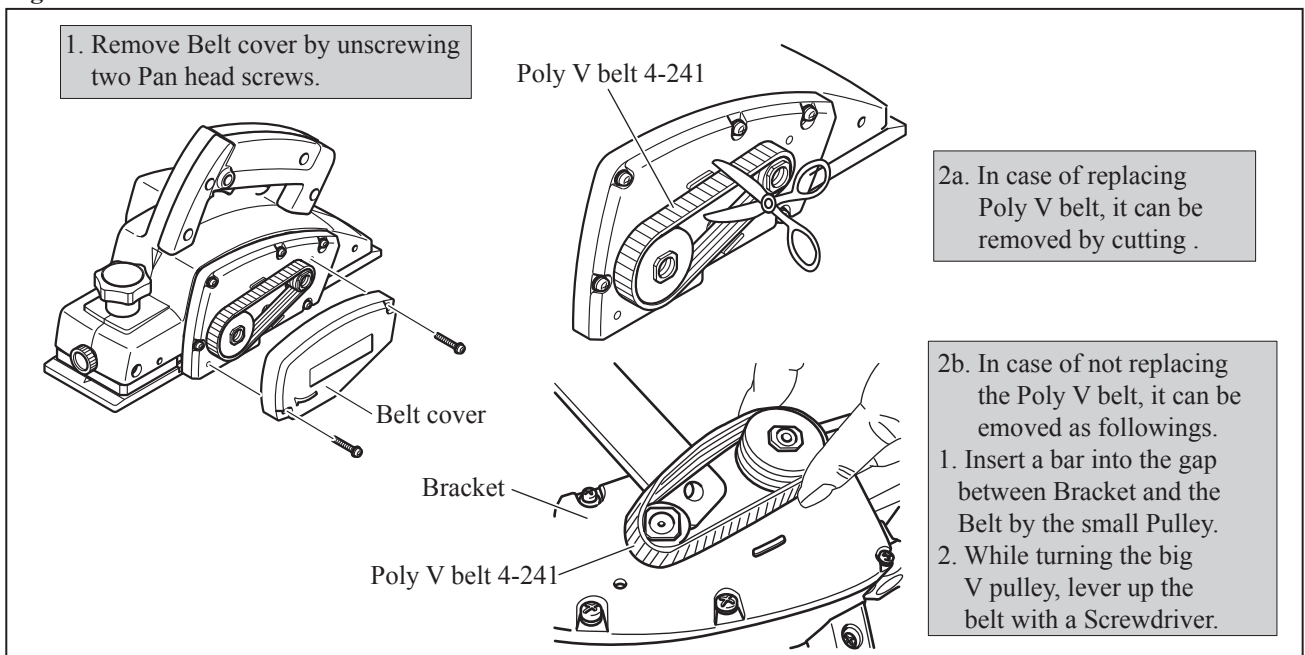
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Poly V Belt 4-241

DISASSEMBLING

Remove Belt cover and Poly V belt (**Fig. 2**).

Fig. 2



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Poly V Belt 4-241

ASSEMBLING

Assemble Poly V belt 4-241 (Fig. 3, Fig. 4).

Fig. 3

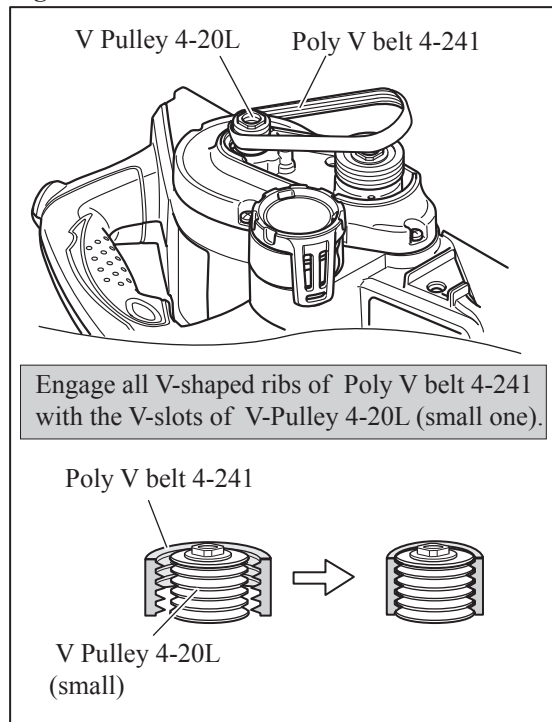
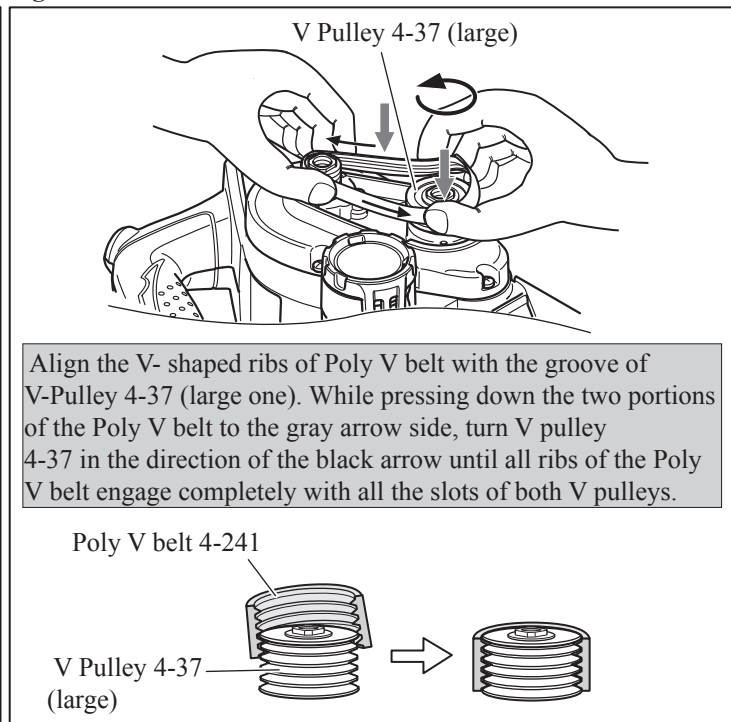


Fig. 4

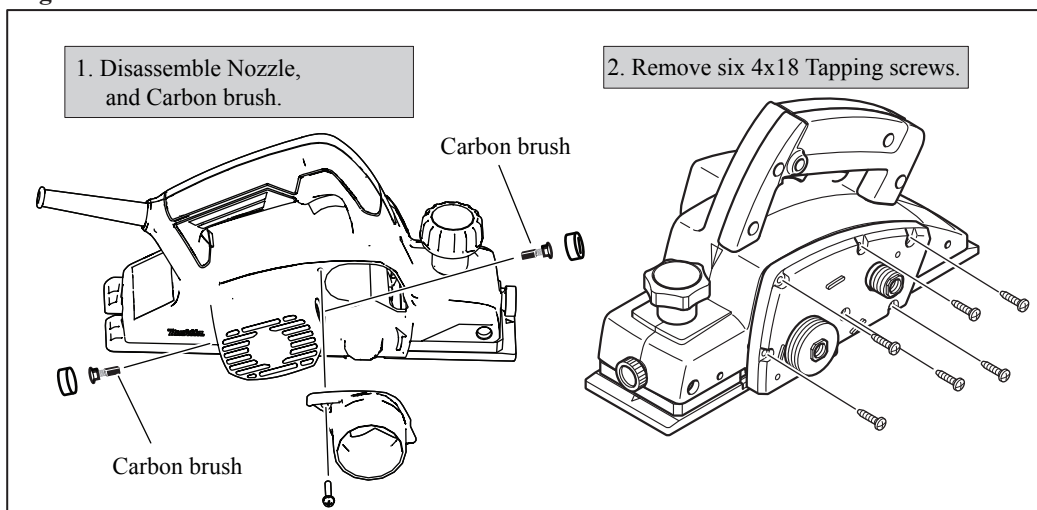


[3]-2. Armature

(1) Remove Poly V belt 4-241 (Fig. 2).

(2) Remove Nozzle, Carbon brush and Tapping screws (Fig. 5).

Fig. 5



► **Repair**

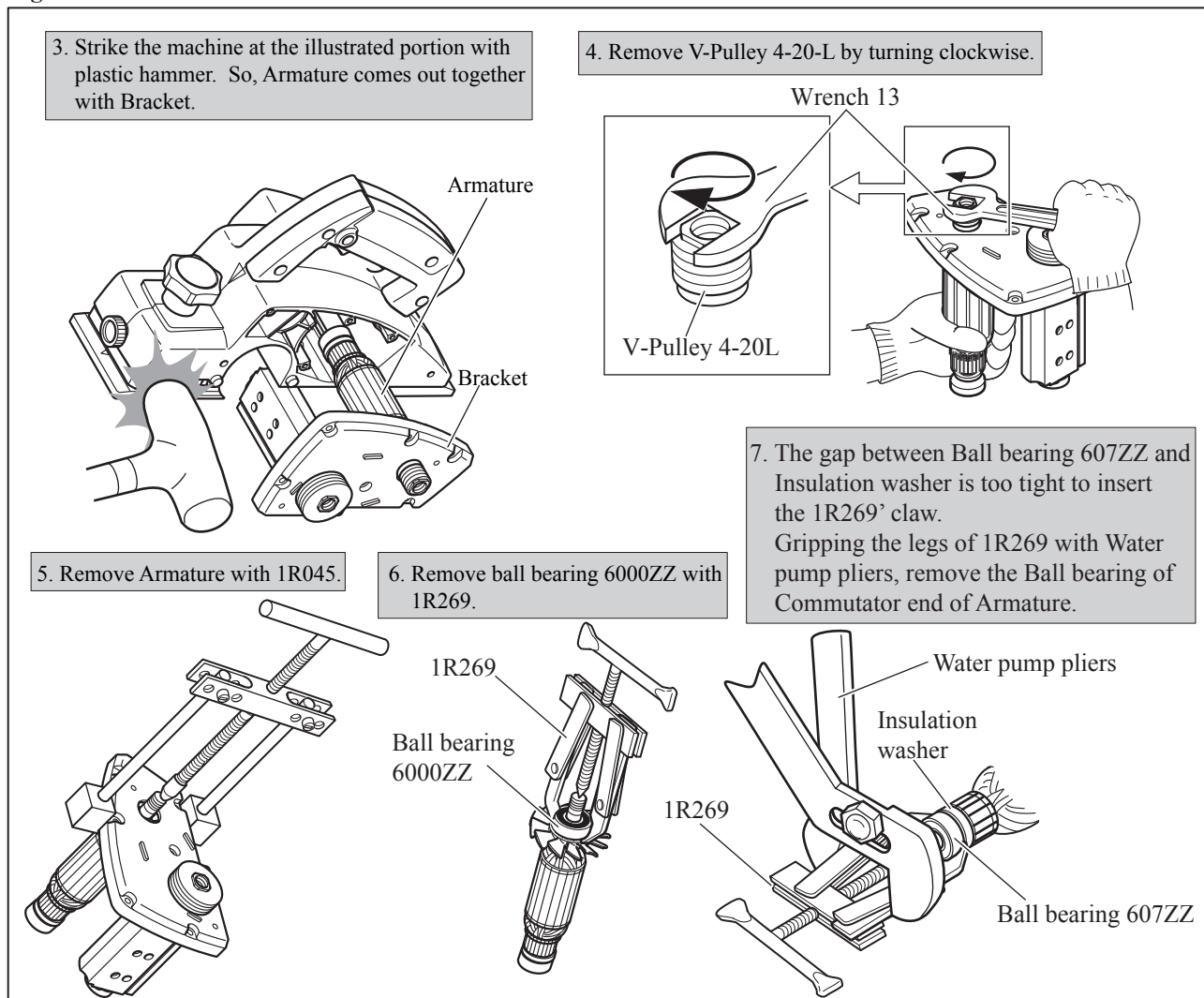
[3] DISASSEMBLY/ASSEMBLY

[3]-2. Armature

DISASSEMBLING

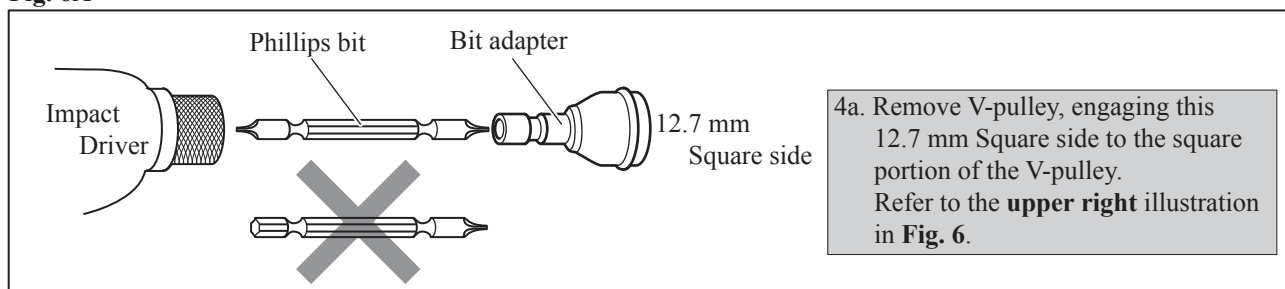
(2) Disassemble Armature as illustrated in **Fig. 6**.

Fig. 6



(2a) Instead of Wrench 13, Bit adapter is available for removing V-pulley 4-20L. See **Fig. 6A**.

Fig. 6A



ASSEMBLING

Assemble Armature and V-pulley 4-20L by tracing the reverse step of Disassembling. Refer to **Fig. 6**.

< Note in Assembling >

1. Tighten V pulley 4-20L to Armature shaft by turning **counterclockwise**.
2. No need to drive V pulley 4-20L firmly in this step, because the pulley is automatically tightened by the rotating threaded shaft of Armature.

► Repair

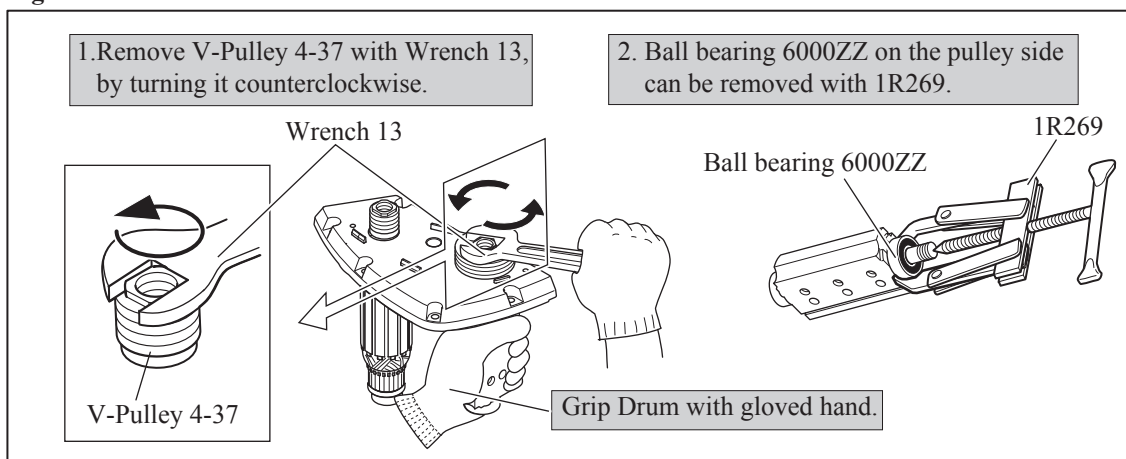
[3] DISASSEMBLY/ASSEMBLY

[3]-3. Drum

DISASSEMBLING

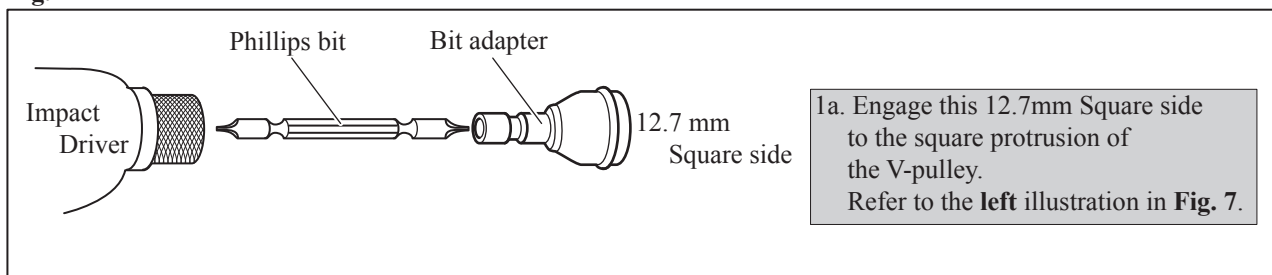
- (1) Remove Poly V belt 4-241 (Fig. 2).
- (2) Disassemble Bracket (Fig. 5) and remove Drum (Fig. 7).

Fig. 7



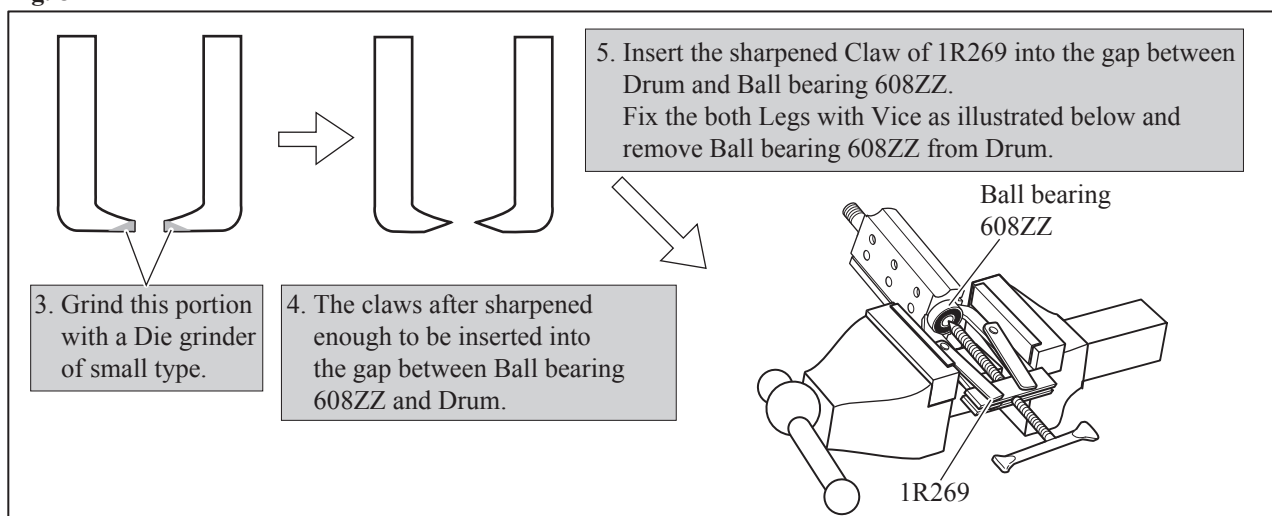
(2a) Bit adapter is available for removing V-pulley 4-20L. See Fig. 7A.

Fig. 7A



- (3) Sharpen the claws of 1R269 to remove Ball bearing 608ZZ due to the tight gap between Ball bearing 608ZZ and Drum. Adapt the claw as illustrated in Fig. 8 left.

Fig. 8



ASSEMBLING

Take the reverse step of Disassembling.

Assemble Drum and V-pulley 4-37 by taking the reverse step of Disassembling (Fig. 8, Fig. 7).

Note: Tighten moderately V pulley 4-37 to Drum shaft by turning **clockwise**.

► **Repair**

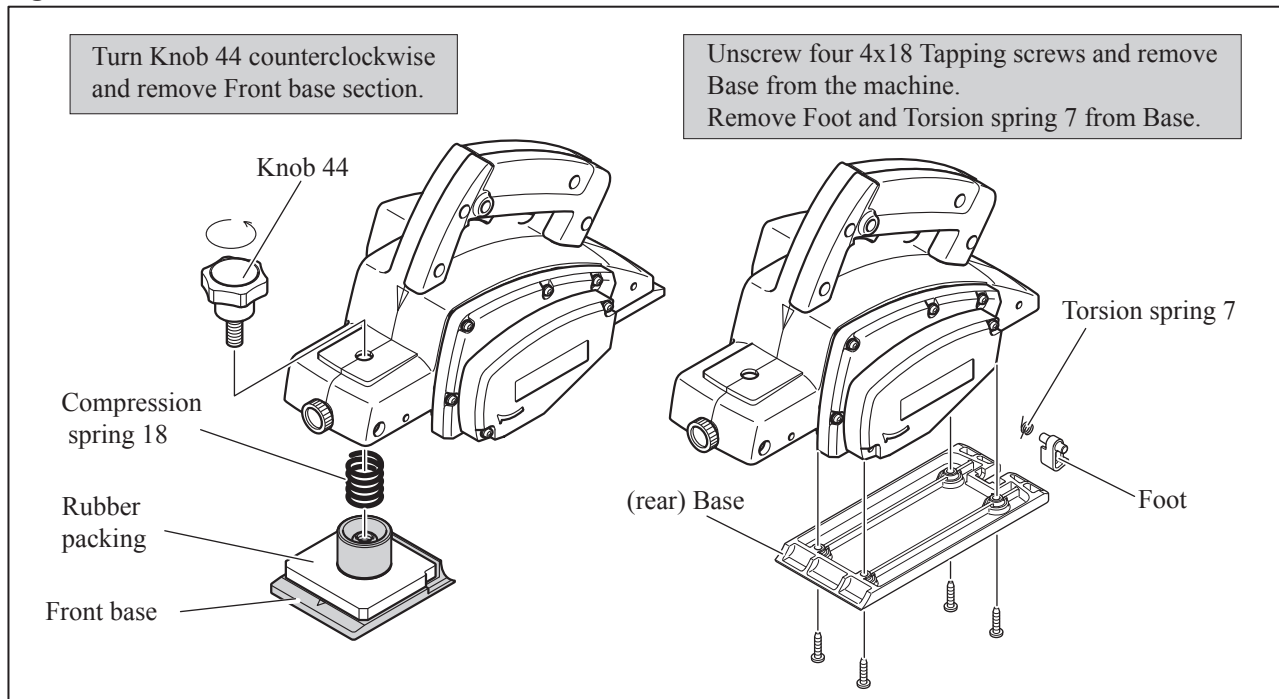
[3] DISASSEMBLY/ASSEMBLY

[3]-4. Front Base, (rear) Base

DISASSEMBLING

(1) Disassemble Front base and (rear) Base (**Fig. 9**).

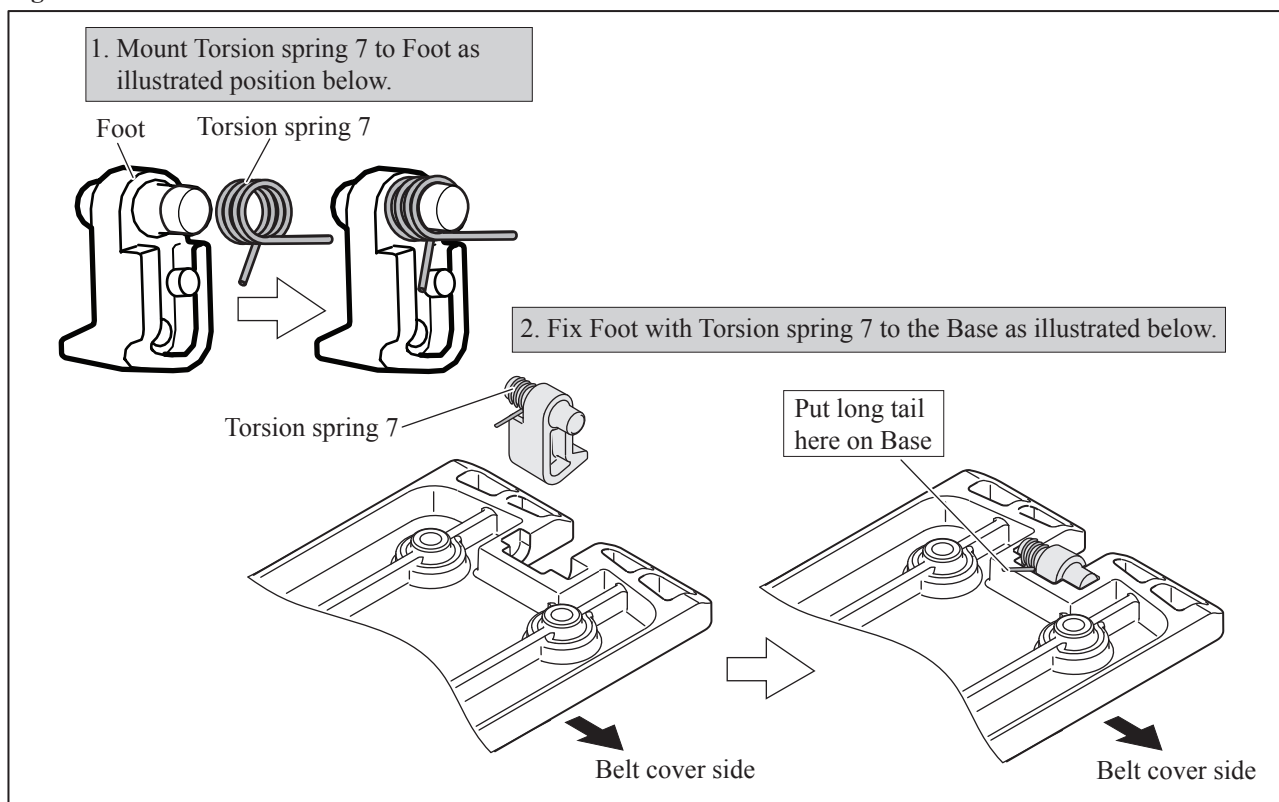
Fig. 9



ASSEMBLING and ADJUSTING

(1) Assembled Foot to (rear) Base (**Fig. 10**).

Fig. 10



► **Repair**

[3] DISASSEMBLY/ASSEMBLY

[3]-4. Front Base, (rear) Base

ASSEMBLING and ADJUSTING

- (2) Assemble (rear) Base to Main frame by fastening four 4x18 Tapping screws (**Fig. 9**).
- (3) Assemble Front base section (**Fig. 9**).
- (4) Adjust “Planing depth at 0 mm” (**Fig. 11, Fig. 12**).

Fig. 11

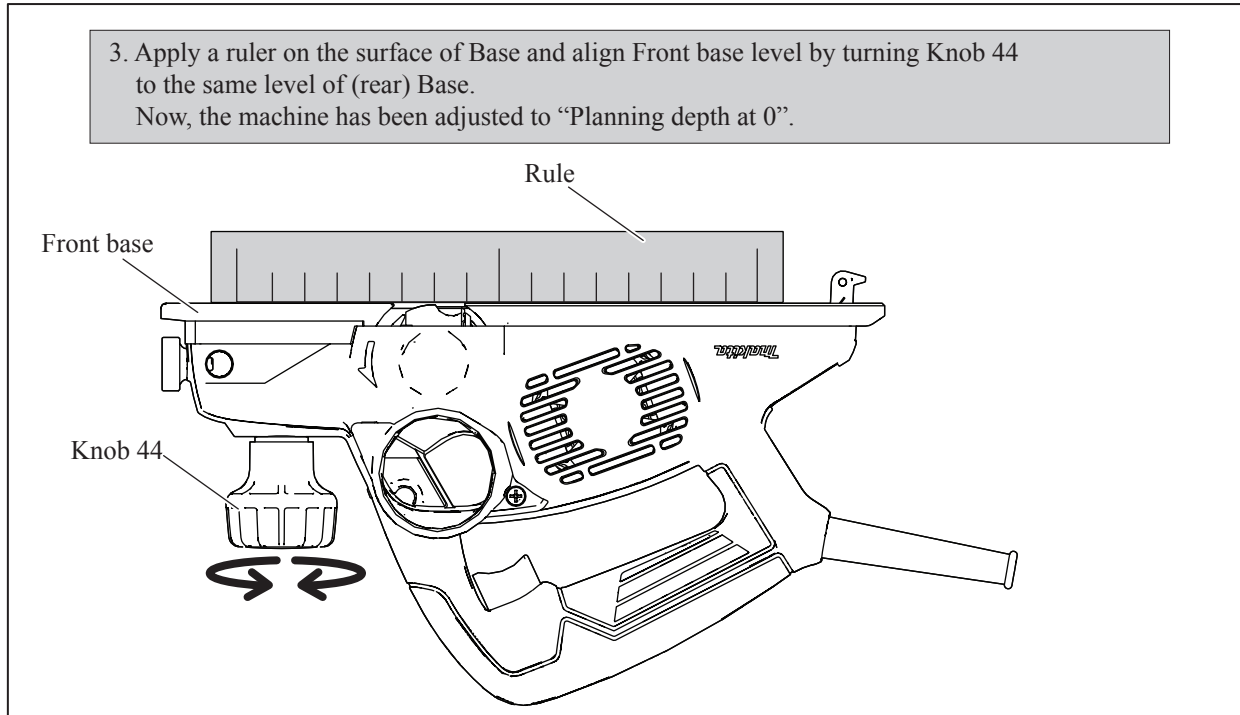
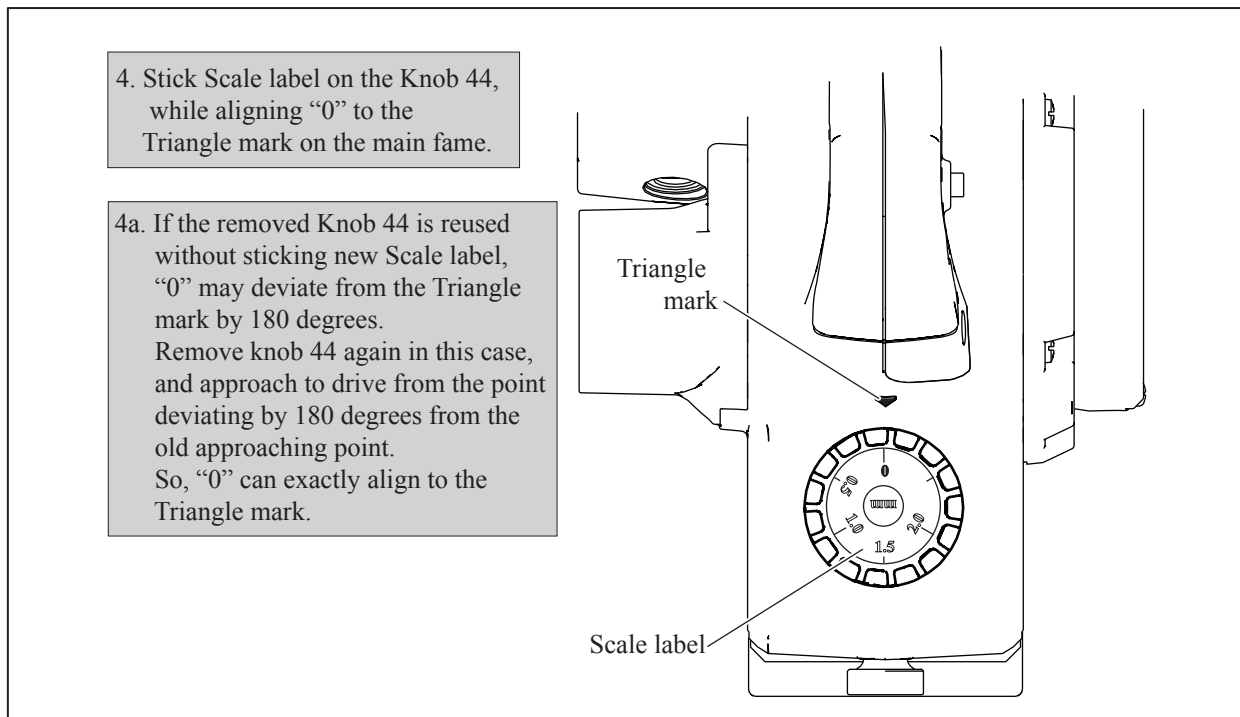
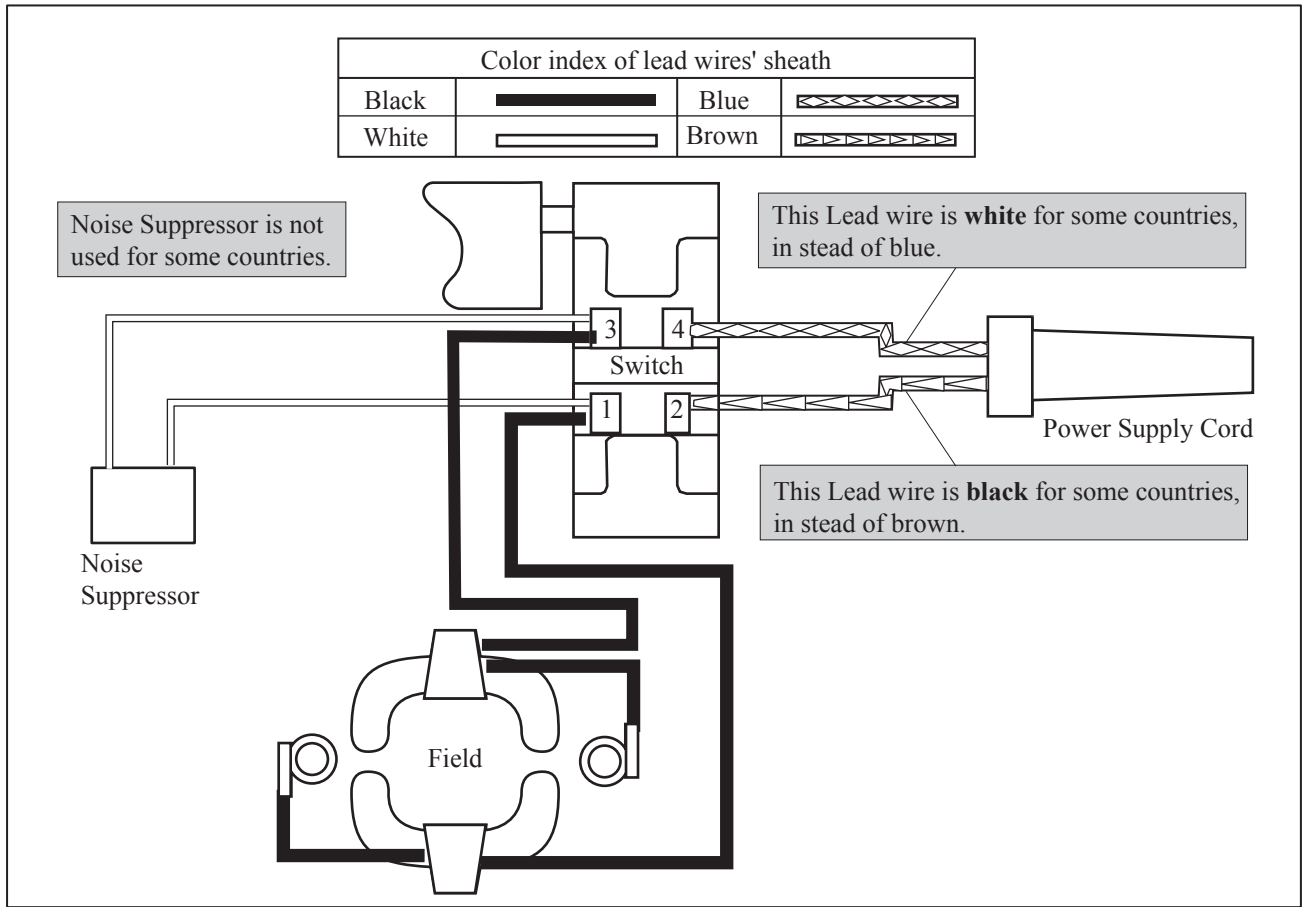


Fig. 12



► **Circuit diagram**

Fig. D-1



► **Wiring diagram**

Fig. D-2

