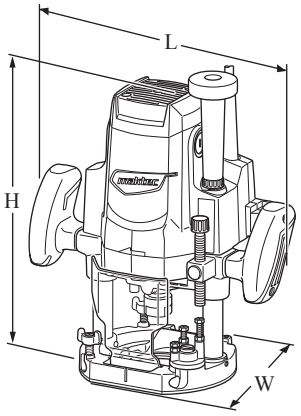
TECHNICAL INFORMATION

Model No. ► MT362

Description ► Router 12mm (1/2")



Dimensions: mm (")	
Length (L)	284(11-1/8)
Width (W)	148 (5-7/8)
Height (H)	300 (11-3/4)

CONCEPT AND MAIN APPLICATIONS

Model MT362 has been developed as the cosmetic change model of maktec router MT360.
Its main features are:

- Industrial performance and durability at less expense
- Ergonomically contoured knob style handles with rubberized soft grip

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	15	50-60	1,650	1,000	2,200
120	15	50-60	-	1,000	2,200
220	7.9	50-60	1,650	1,000	2,200
230	7.6	50-60	1,650	1,000	2,200
240	7.2	50-60	1,650	1,000	2,200

No load speed: min.$^{-1}$= rpm.	22,000
Collet capacity*	12mm (15/32") or 1/2" (12.7mm)
Plunge capacity: mm (")	0 - 60 (0 - 2-3/8)
Switch type	Toggle
Protection from electric shock	Double insulation
Power supply cord: m (ft)	2.0 (6.6)
Weight according to EPTA-Procedure 01/2003: kg (lbs)	5.5 (12.2)

* Collet capacity may vary by country.

► Standard equipment

Wrench 8 - 24 1
Collet sleeve 6mm or 1/4" 1
Collet sleeve 8mm or 3/8" 1
Templet guide 16 1
Guide holder assembly 1
Straight guide 1
Trimmer guide assembly 1
Dust cover ..... 1 (only for the specifications with knob 50)
Straight bit 12E or 12 1
Dust nozzle ..... 1 (for European countries only)

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

► Optional accessories

Dust nozzle

Repair

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

[1] NECESSARY REPAIRING TOOLS

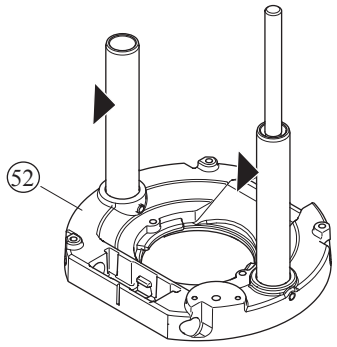
Code No.	Description	Use for
1R269	Bearing extractor	removing Ball bearing 629ZZ
1R233	Round bar for arbor 4-100	removing Cap 11

[2] LUBRICATION

Apply **lubricating oil VG100** to the following portions designated with the black triangle to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Amount
㊷	Base complete	Pipe section for smooth plunge action	a little

Fig. 1



[3] DISASSEMBLY/ASSEMBLY

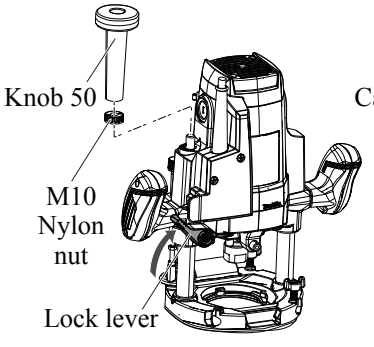
[3] -1. Armature

DISASSEMBLING

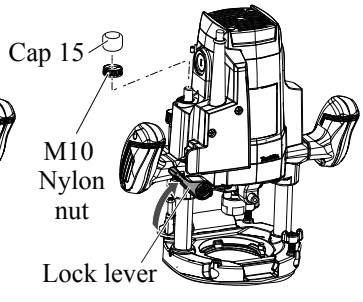
(1) Separate Motor section from Base complete. (**Fig. 2**)

Fig. 2

1. MT362: Remove Knob 50 and M10 Nylon nut, and then release Lock lever.
MRP102: Remove Cap 15 and M10 Nylon nut, and then release Lock lever.

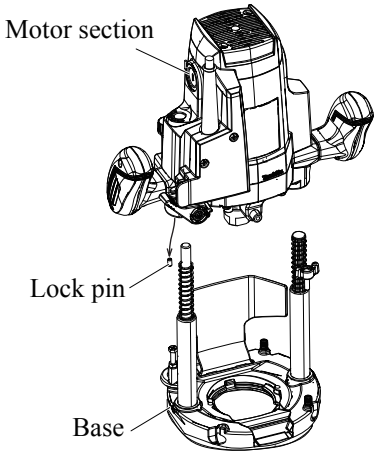


[MT362]



[MRP102]

2. Separate Base complete from the machine.
Note: Be careful not to lose Lock pin in this step.



Repair

[3] DISASSEMBLY/ASSEMBLY

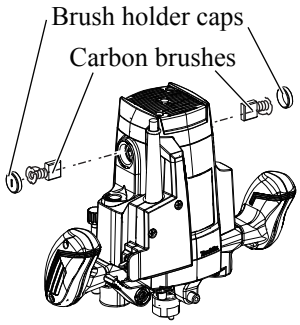
[3] -1. Armature (cont.)

DISASSEMBLING

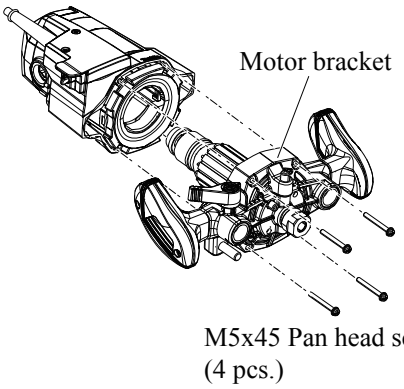
(2) Disassemble Armature from Motor section. (**Fig. 3**)

Fig. 3

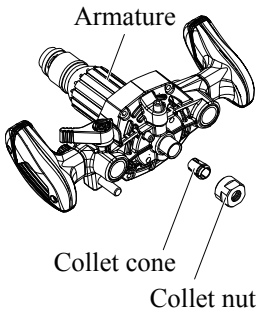
1. Remove Brush holder caps and Carbon brushes.



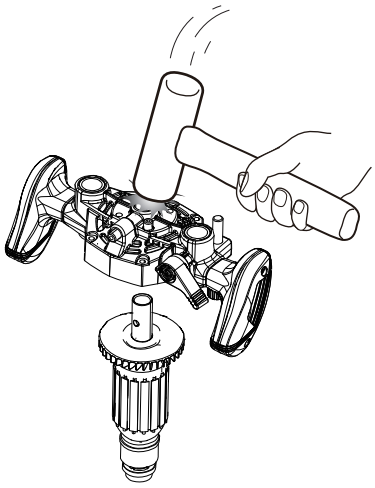
2. Separate Motor bracket by unscrewing four M5x45 Pan head screws.



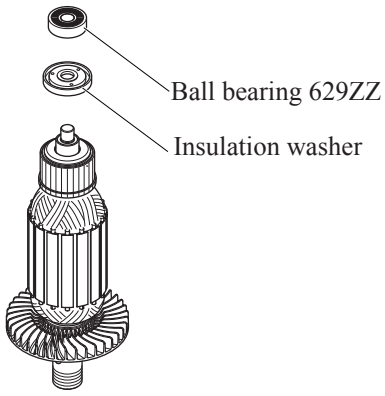
3. Remove Collet nut and Collet cone from Armature.



4. Remove Armature from Motor bracket by tapping the drive end of Armature with plastic hammer, or by pressing the same portion of Armature with Arbor press.
   Note: Ball bearing 6004ZZ on Armature's drive end remains in Motor bracket in this step.



5. Remove Ball bearing 629ZZ with 1R269, and then remove Insulation washer.



Repair

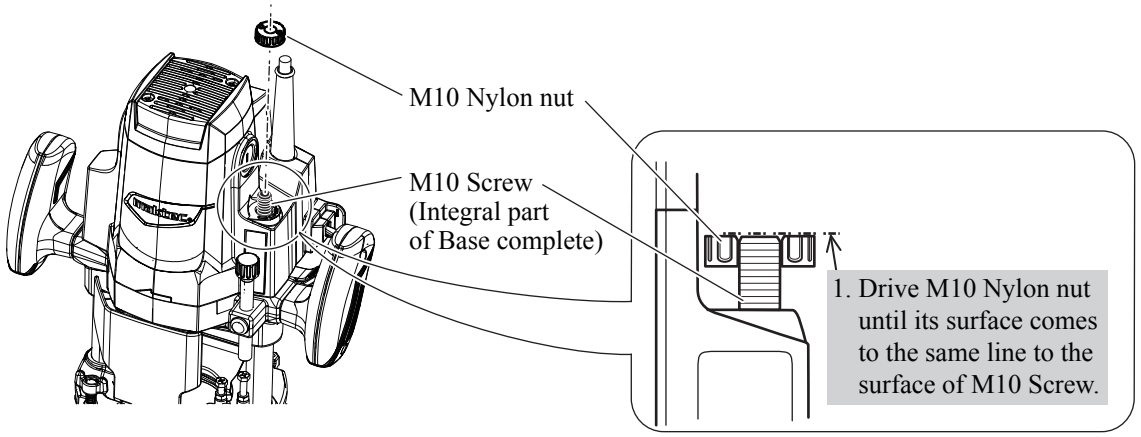
[3] DISASSEMBLY/ASSEMBLY

[3] -1. Armature (cont.)

ASSEMBLING

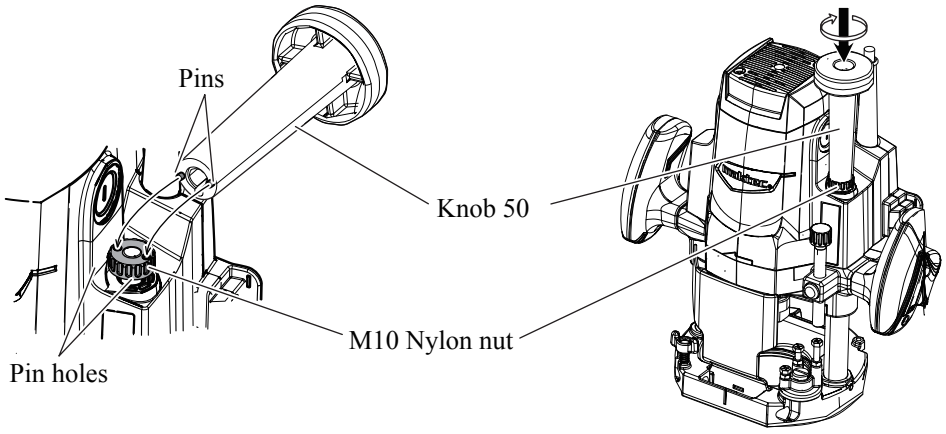
(1) Assemble Armature by reversing the disassembly procedure. (Refer to **Fig. 3**)
(2) Assemble Motor housing to Base. (Refer to **Fig. 2**)
Note: Make sure that **Lock pin** is already mounted to Motor bracket. (Refer to the **right** drawn in **Fig. 2**)
(3) Assemble M10 Nylon nut and Knob 50. (**Fig. 4**)

Fig. 4

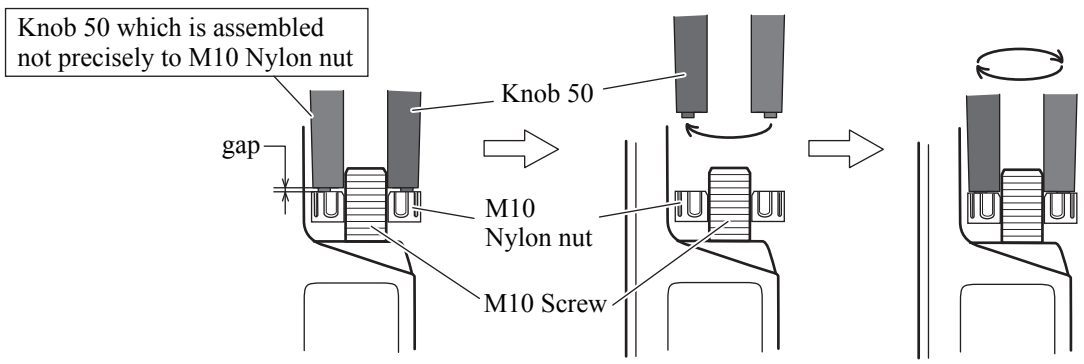


2. Insert Pins of Knob 50 into the Pin holes on M10 Nylon nut in order to drive M10 Nylon nut with Knob 50.

3. Drive M10 Nylon nut with Knob 50 while pressing so carefully down the nut that the gap does not arise between Knob 50 and M10 Nylon nut.



3A. Trouble of the big gap can be solved by taking the following step.
1. Remove Knob 50 from M10 Nylon nut. And make a half turn of the knob to get the opposite angle position of its Pins to Pin holes of the nut. Then insert it into M10 Nylon nut again.
2. Drive M10 Nylon nut with Knob 50.



Repair

[3] DISASSEMBLY/ASSEMBLY

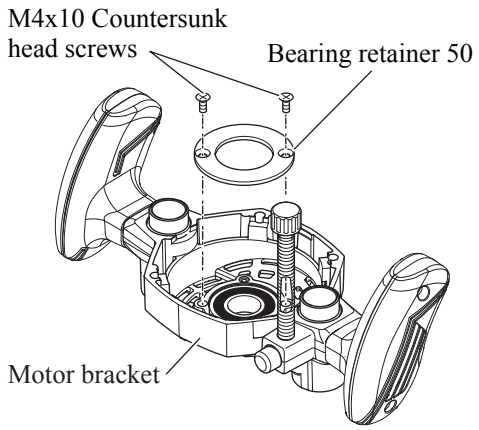
[3] -2. Ball Bearing 6004ZZ

DISASSEMBLING

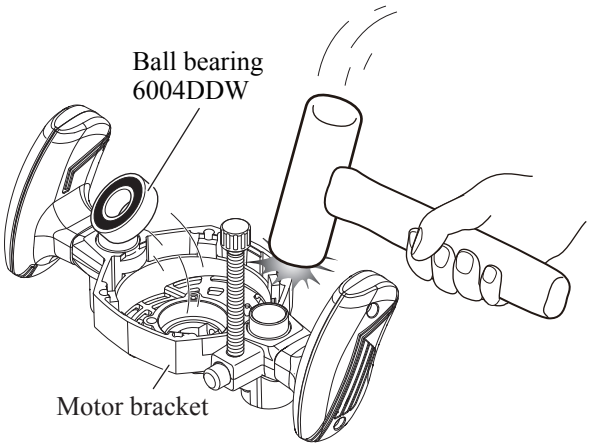
(1) Separate Motor bracket from Motor housing. And Disassemble Armature from Motor bracket. (Refer to **Fig. 3**)
Ball bearing 6004DDW remains in Motor bracket in this step.
(2) Disassemble Ball bearing 6004DDW as drawn in **Fig. 5**.

Fig. 5

1. Remove Bearing retainer 50 by unscrewing two M4x10 Countersunk head screws.



2. Remove Ball bearing 6004DDW by tapping the edge of Motor bracket with plastic hammer.



ASSEMBLING

Assemble Ball bearing 6004DDW and Bearing retainer 50 by reversing the disassembly procedure.
Note: Thread locker is applied to M4x10 Countersunk head screw. After applying "**ThreeBond 1342** or **Loctite 242**" to the thread portion, drive M4x10 Countersunk head screws.

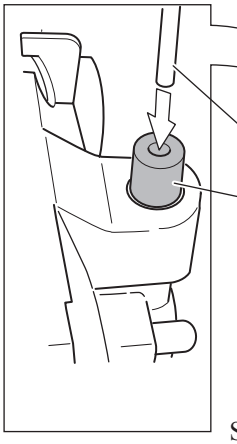
[3] -3. Cap 11 for Shaft Lock mechanism

DISASSEMBLING

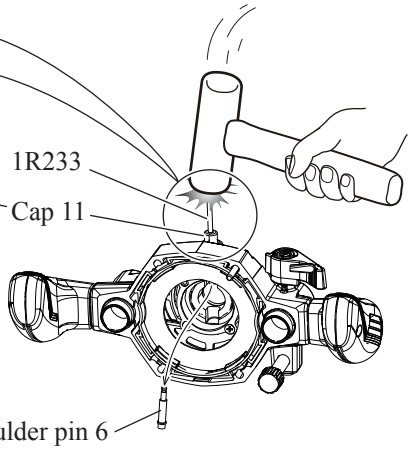
It is impossible to disassemble Shaft lock mechanism without removing Ball bearing 6004DDW.
(1) Remove Ball bearing 6004DDW. (Refer to **Fig. 5**)
(2) Disassemble Cap 11 as drawn in **Fig. 6**.

Fig. 6

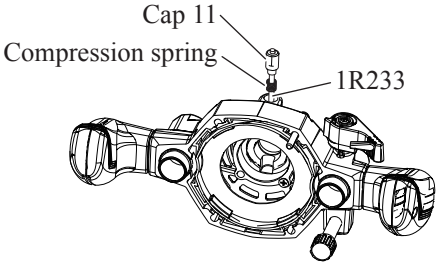
1. Insert 1R233 into Pin hole on Cap 11.



2. Remove Shoulder pin 6 by tapping 1R233 with hammer.



3. When removing Cap 11, be careful not to lose Compression spring.
Note: Do not reuse Cap 11 because Pin hole for Shoulder pin 6 is deformed.



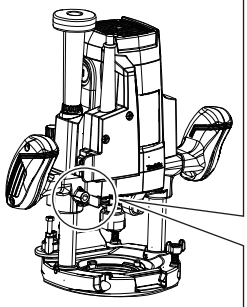
Repair

[3] DISASSEMBLY/ASSEMBLY
[3] -4. Lock Lever

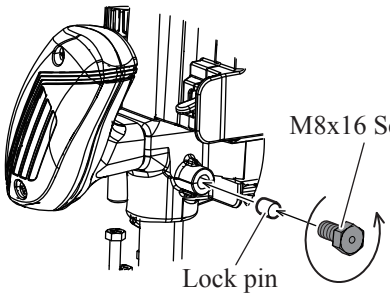
ASSEMBLING

(1) Assemble Base to the machine. (Refer to the **right** drawing in **Fig. 2**)
(2) Assemble Lock lever to Motor bracket as drawn in **Fig. 7**.

Fig. 7

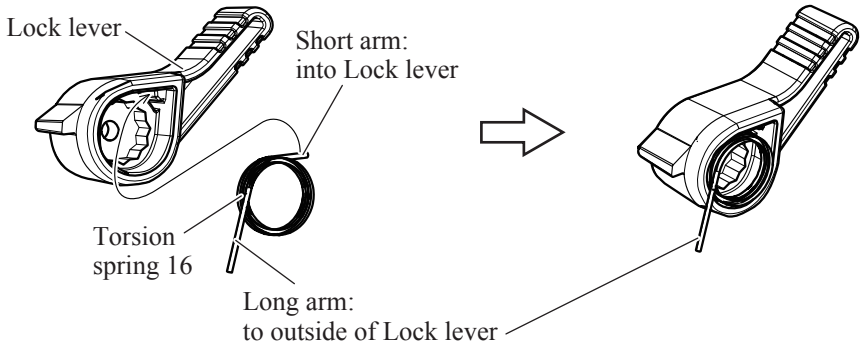


1. Insert Lock pin deeply into the hole for Lock lever of Motor bracket. Then, tighten M8x16 Set bolt turning it counterclockwise until it stops.

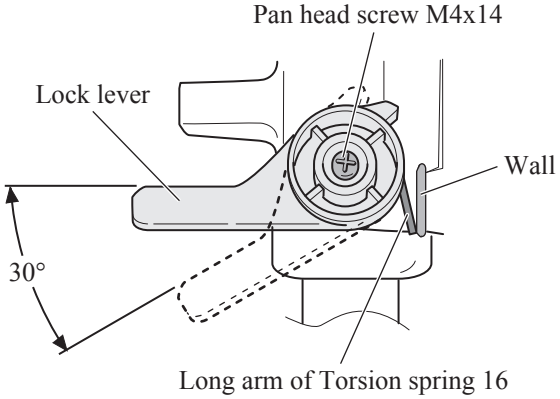


Note: Fastening torque for M8x16 Set bolt is **0.5 - 1.0 N·m**.

2. Set Torsion spring 16 in place of Lock lever as drawn below.



3. Install Lock lever onto the hex head portion of M8x16 Set bolt within the range of 0 degree to 30 degrees. And, place the long arm of Torsion spring 16 so that it is fixed at the wall beside Lock lever. Then, fasten it with M4x14 Pan head screw.



Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -5. Stopper on Base complete

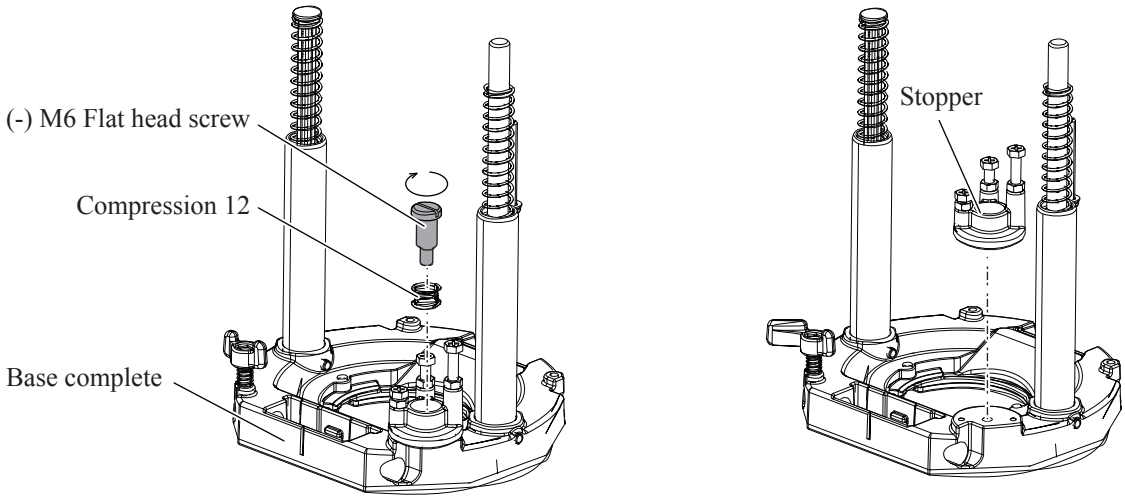
DISASSEMBLING

Disassemble Stopper as drawn in **Fig. 8**.

Fig. 8

1. M6 (-) Flat head screw can be removed by turning it **clockwise**. And remove Compression spring 12.

2. Remove Stopper from Base.



ASSEMBLING

Assemble Stopper by reversing the disassembly procedure. (Refer to **Fig. 8**)

Note:

1. Thread locker is applied to M6 (-) Flat head screw. After applying "**ThreeBond 1342** or **Loctite 242**" to the thread portion, drive the screw to Base complete.

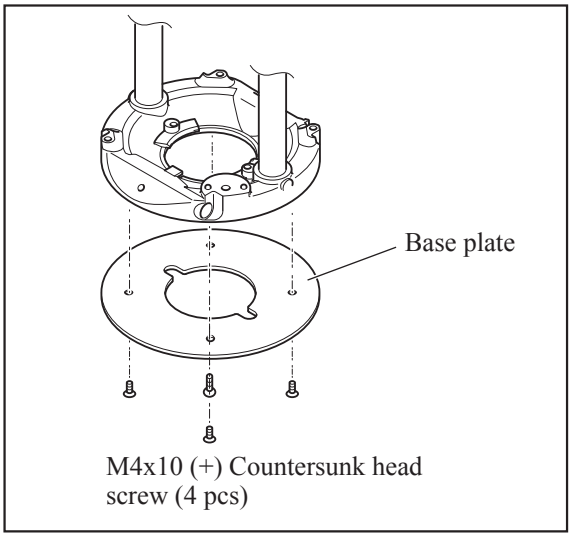
2. The fastening torque for M6 (-) Flat head screw is **1.8 - 3.5 N·m**.

[3] -6. Base plate

ASSEMBLING

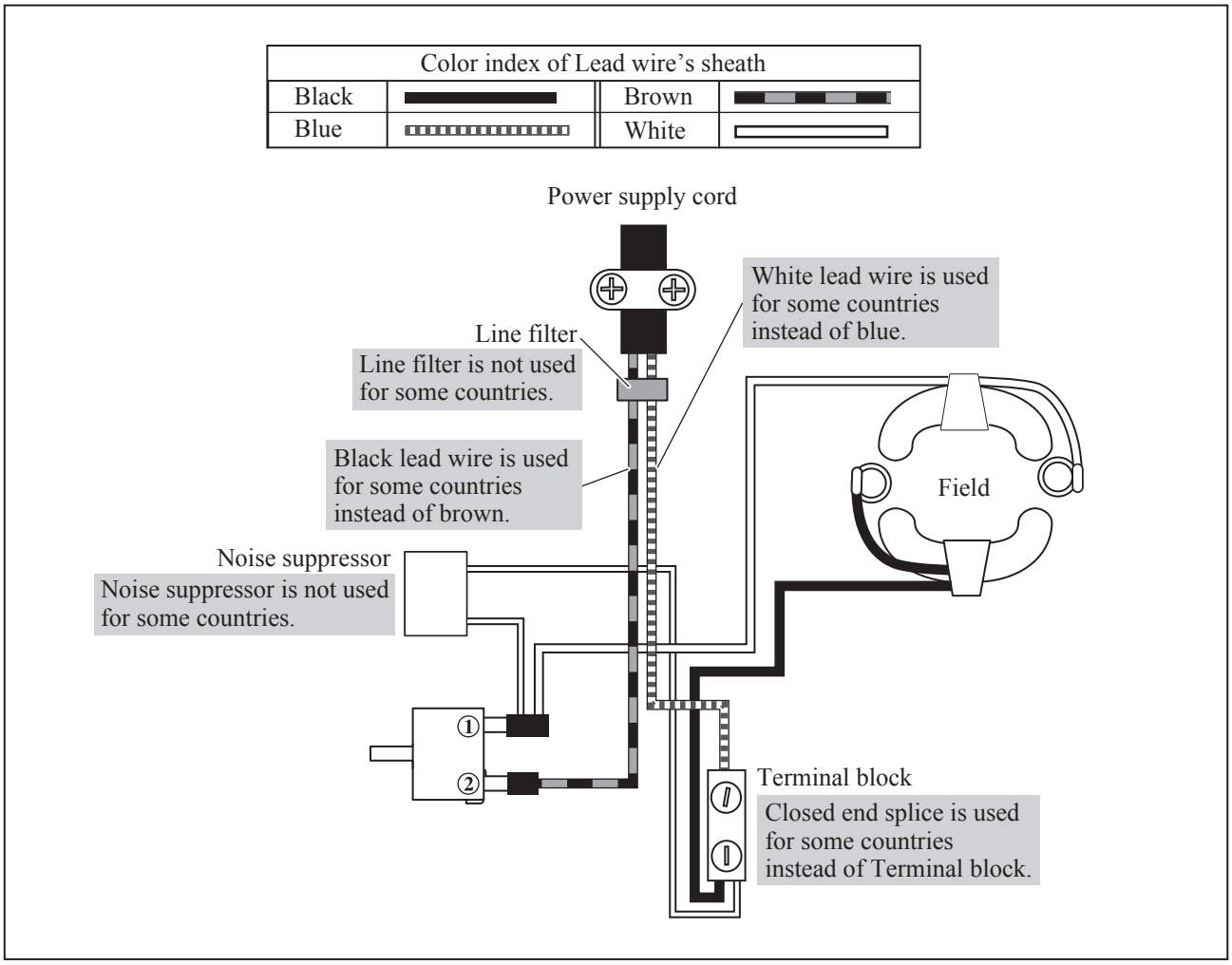
M4x10 (+) Countersunk head screws are coated with thread locker. While assembling Base plate to Base complete with removed M4x10 (+) Countersunk head screws, apply "**ThreeBond 1342** or **Loctite 242**" to the thread portion of the screws.

Fig. 9



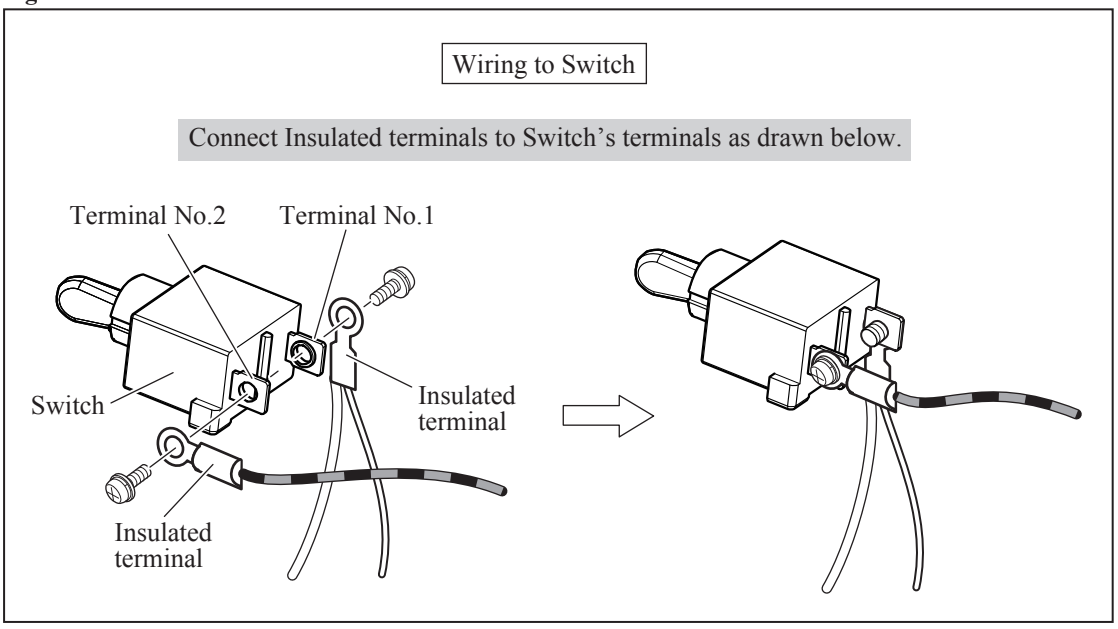
Circuit diagram

Fig. D-1



Wiring diagram

Fig. D-2



Wiring diagram

Fig. D-3

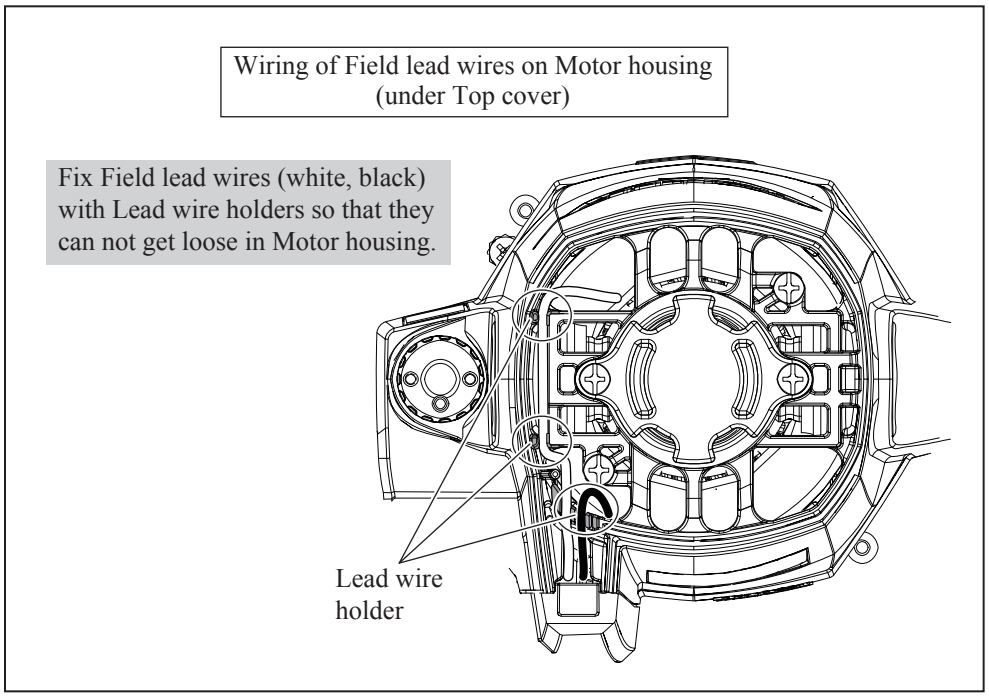
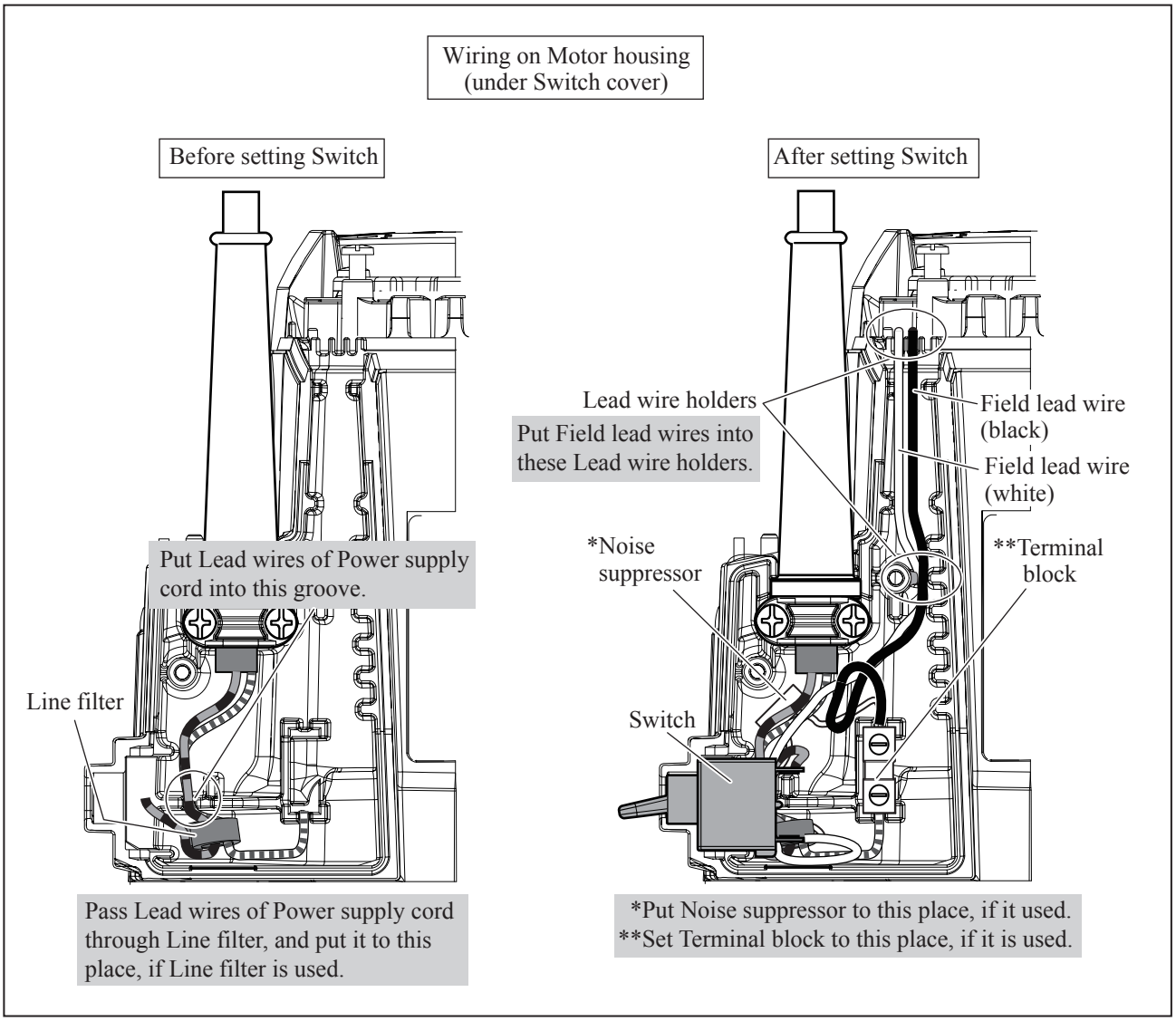



Fig. D-4