

Model No. ▶ MT900/ MT901

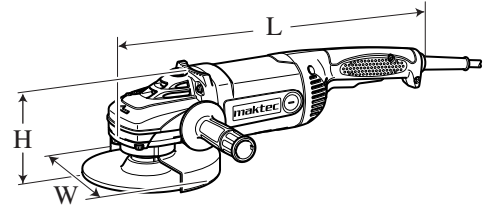
Description ▶ Angle Grinders 180mm (7") / 230mm (9")

CONCEPT AND MAIN APPLICATIONS

180mm (7") and 230mm (9") angle grinders have been added to the line-up of maktec angle grinders.

Their advantages are:

- *Anti-dust, heavy-duty 2,000W motor
- *Industrial performance and durability at less expense
- *High dust-proof construction
- *Rear handle with anti-slip surface for more control
- *Machined spiral bevel gear for durability and long service life of the machine



Dimensions: mm (")		
Model No.	MT900	MT901
Length (L)	468 (18-7/16)	
Width (W)	200 (7-7/8)	249 (9-3/4)
Height (H)	138 (5-7/16)	

▶ Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	15	50/60	1,650	1,100	2,700
120	15	50/60	---	1,100	2,700
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

Model No.		MT900	MT901
Wheel size : mm (")	Diameter	180 (7)	230 (9)
	Hole diameter	22.23 (7/8)	
No load speed: min.-1 = rpm		8,500	6,600
Protection against electric shock		Double insulation	
Cord length: m (ft)		2.0 (6.6)	
Net weight: kg (lbs)		4.7 (10.4)	

▶ Standard equipment

- Lock nut wrench 1 pc
- Side grip 1 pc

Note: The standard equipment for the tool shown above may differ from country to country.

▶ Optional accessories

- MT900: Assorted accessories for 180mm angle grinder
- MT901: Assorted accessories for 230mm angle grinder

► Repair

CAUTION: Remove the wheel from the machine for safety before repair/ maintenance !

[1] NECESSARY REPAIRING TOOLS


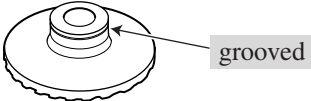

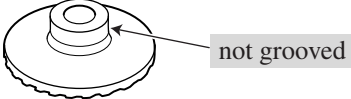
Code No.	Description	Use for
1R048	Drill chuck remover 11	Removing Spiral bevel gear 53
1R049	Drill chuck remover 15	Removing Spiral bevel gear 53
1R269	Bearing extractor	Removing Ball bearings
1R005	Retaining ring R pliers	Removal/installation of Retaining ring R-42
1R165	Ring spring setting tool B	Assembling Spiral bevel gear 53

[2] LUBRICATION

Put approx. 50g of Makita grease N. No.1 in the gear room of Gear housing complete to protect parts and product from unusual abrasion.

[3] DISASSEMBLY/ASSEMBLY

Important: Different gears are used for MT900 and MT901, and they are not interchangeable between the models. Be careful not to confuse them. refer to the following table for detailed differences.

Model No.	No load speed: min-1	Small spiral bevel gear (Gear on Armature shaft)	Large spiral bevel gear (Gear on Spindle)
MT900	8,500	Spiral bevel gear 16 Number of teeth: 16 	Spiral bevel gear 53B Number of teeth: 53 
MT901	6,600	Spiral bevel gear 12 Number of teeth: 12 	Spiral bevel gear 53A Number of teeth: 53 

[3] -1. Armature, Small spiral bevel gear, Ball bearing 6301ZZ

DISASSEMBLING

- 1) After removing Carbon brush, separate the assembly of Gear housing complete with Armature from Motor housing complete by unscrewing four M5x45 tapping screws.
- 2) Separate Bearing box from Gear housing complete by unscrewing four M6x22 Hex socket head bolts.
- 3) With Armature securely held by hand, remove Hex nut M8 from the drive-end of Armature shaft by turning counterclockwise with wrench 13. (**Fig. 1**)
- 4) Hold Small spiral bevel gear by hand, then pull off Armature from Gear housing complete. (**Fig. 2**)
Note: If it is difficult to pull off Armature by hand, do the following steps.
 1. Lubricate small spiral bevel gear and Armature shaft with spray lubricant.
 2. Wrap the gear with cloth to protect the gear teeth.
 3. Using water pump pliers or the like, firmly grip the gear wrapped with cloth, then turn the gear.

Fig. 1

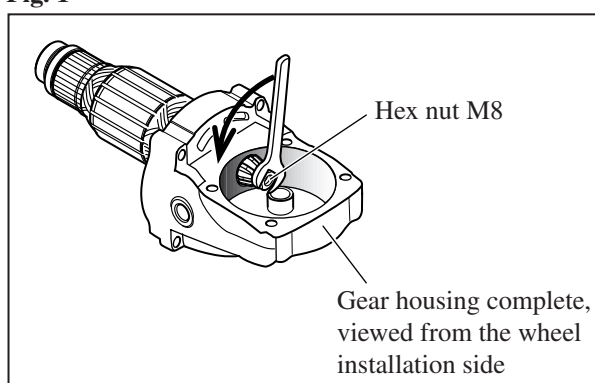
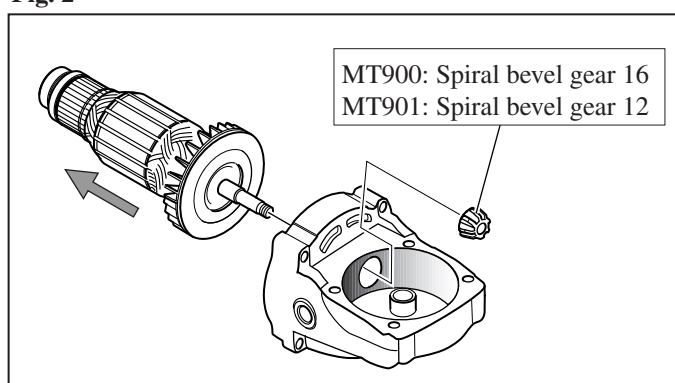


Fig. 2



► Repair

[3] -1. Armature, Small spiral bevel gear, Ball bearing 6301ZZ (cont.)

DISASSEMBLING

- 5) In order to remove Ball bearing 6301ZZ from gear housing complete, first remove Retaining ring R-42 with Retaining ring R pliers RT-2N (No.1R005), and remove Flat washer 20 from Gear housing complete. (**Fig. 3**)
- 6) Reassemble Armature to Gear housing complete, then the spiral bevel gear to Armature shaft. Tighten Hex nut M8 provisionally by turning clockwise. (Refer to **Fig. 2, 1**)
- 7) By tapping the end of Gear housing complete with a plastic hammer, Ball bearing 6301ZZ can be removed together with Armature. (**Fig. 4**)
- 8) Remove Ball bearing 6200ZZ from Armature with Bearing Extractor (No.1R269). (**Fig. 5**)

Fig. 3

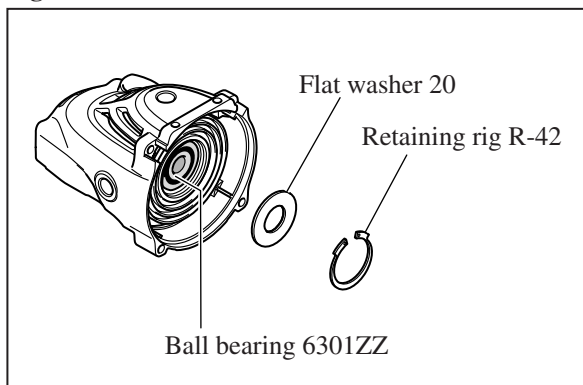


Fig. 4

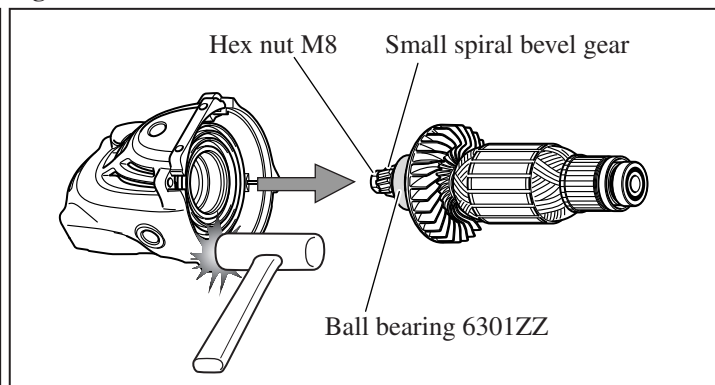
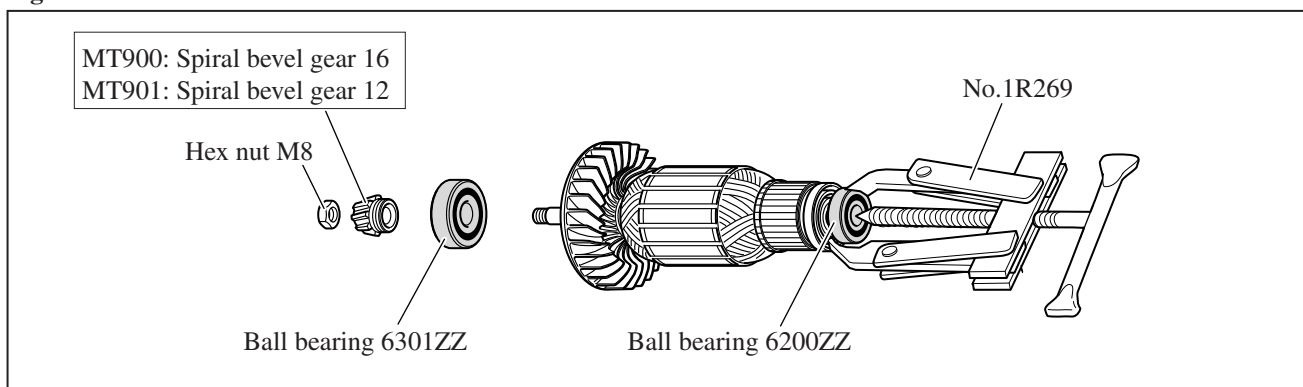


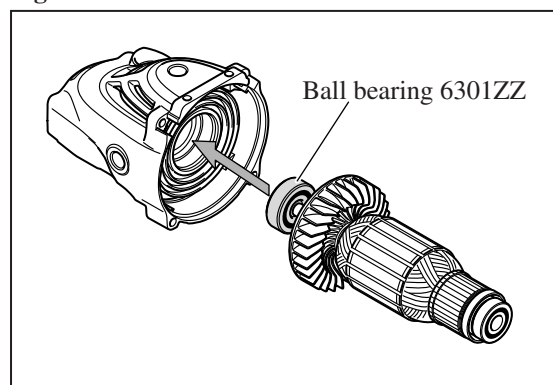
Fig. 5



ASSEMBLING

- 1) Mount Ball bearing 6301ZZ on Armature by hand, then insert into the bearing installation hole of Gear housing, (Fig. 8) Then pull off Armature.
- 2) Put Flat washer 20 onto Ball bearing 6301ZZ, and fasten with Retaining ring R-42.
- 3) Then do the reverse of the disassembling steps.

Fig. 6



► Repair

[3] -2. Large spiral bevel gear and Ball bearing 6203ZZ

Note: The gear and the ball bearing can be replaced without disassembling the Motor section.

DISASSEMBLING

- 1) Separate Bearing box from Gear housing complete by unscrewing four M6x22 Hex socket head bolts.
It is not necessary to remove Carbon brushes.
- 2) Remove Ball bearing 6000ZZ with Bearing Extractor (No.1R269). (**Fig. 7**)
- 3) Insert two Drill chuck removers (No.1R048, 1R049) between Large spiral bevel gear and Bearing box, and set the Bearing box on the turn base of arbor press so that the wheel cover installation surface of Bearing box is placed on the edge of the U-shaped notch of the turn base.
Then remove spindle by pressing down with arbor. (**Fig. 8**)

Fig. 7

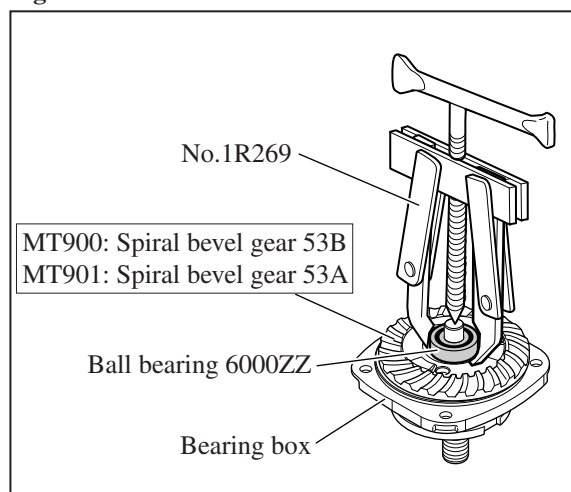
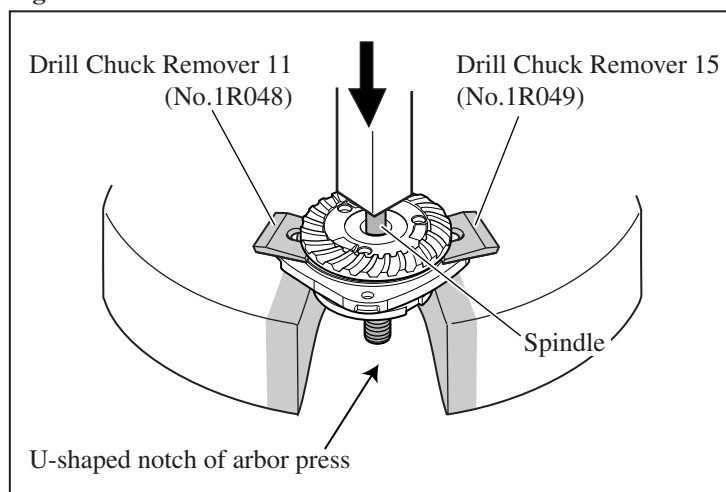


Fig. 8



- 4) After removing Large spiral bevel gear, separate Bearing retainer 50 by removing three M5x16 Pan head screws. (**Fig. 9**)
- 5) Remove Ball bearing 6203ZZ by hitting Bearing box straight down against flat surface of work-bench. (**Fig. 10**)
If cannot be removed, use arbor press and a round bar for arbor of an appropriate size as illustrated in **Fig. 11**.

Fig. 9

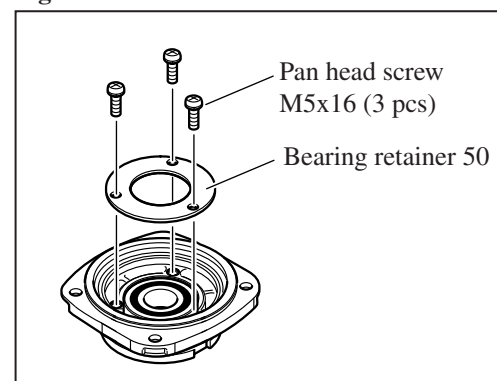


Fig. 10

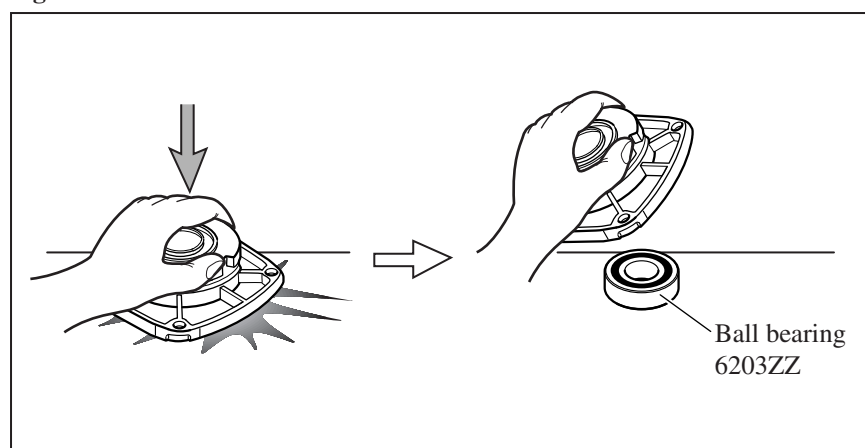
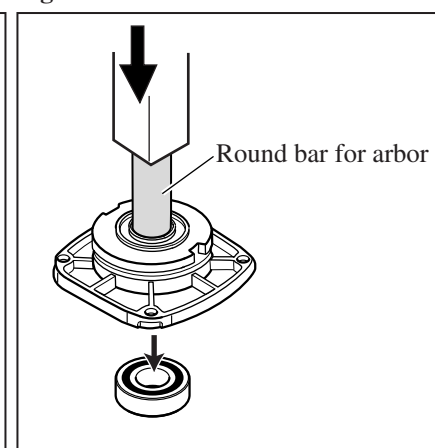


Fig. 11



► Repair

[3] -2. Large spiral bevel gear and Ball bearing 6203ZZ (cont.)

ASSEMBLING

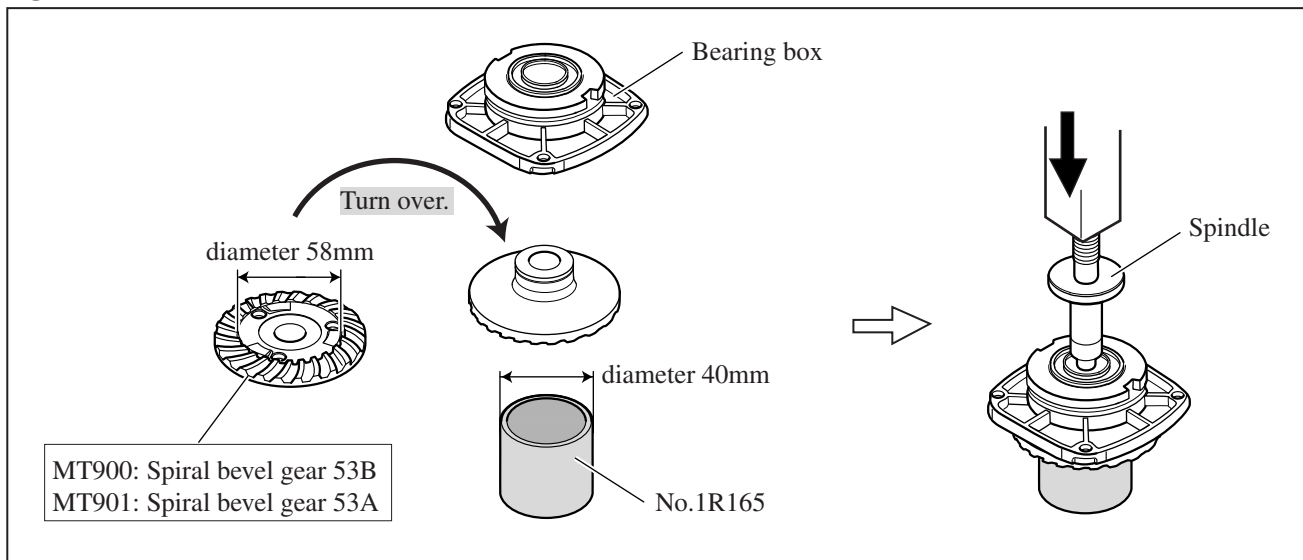
Do the reverse of the disassembling steps.

How to assemble Spindle to Large spiral bevel gear

See Fig. 12.

- 1) In order not to damage the gear teeth of Large spiral bevel gear, put it on Ring spring setting tool B (No.1R165).
- 2) After assembling Ball bearing 6203ZZ to Bearing box, put Bearing box on Large spiral bevel gear.
- 3) Then press-fit Spindle into Large spiral bevel gear using arbor press.

Fig. 12



[3] -3. Shaft Lock

DISASSEMBLING

- 1) Remove Bearing box from Gear housing.
- 2) Pull off Shoulder pin 5 with pliers while pushing Pin cap with a finger. (Fig. 13)

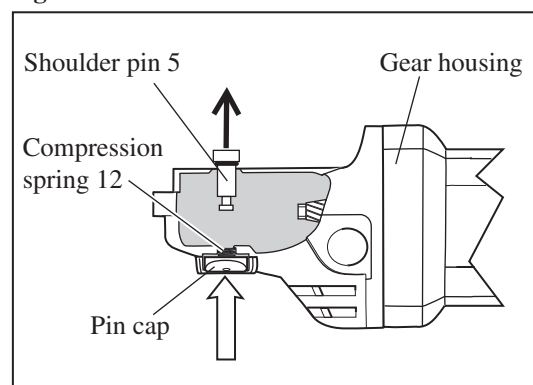
Note: Do not pull off shoulder pin 5 without holding pin cap because Compression spring 12 would sling Pin cap.

ASSEMBLING

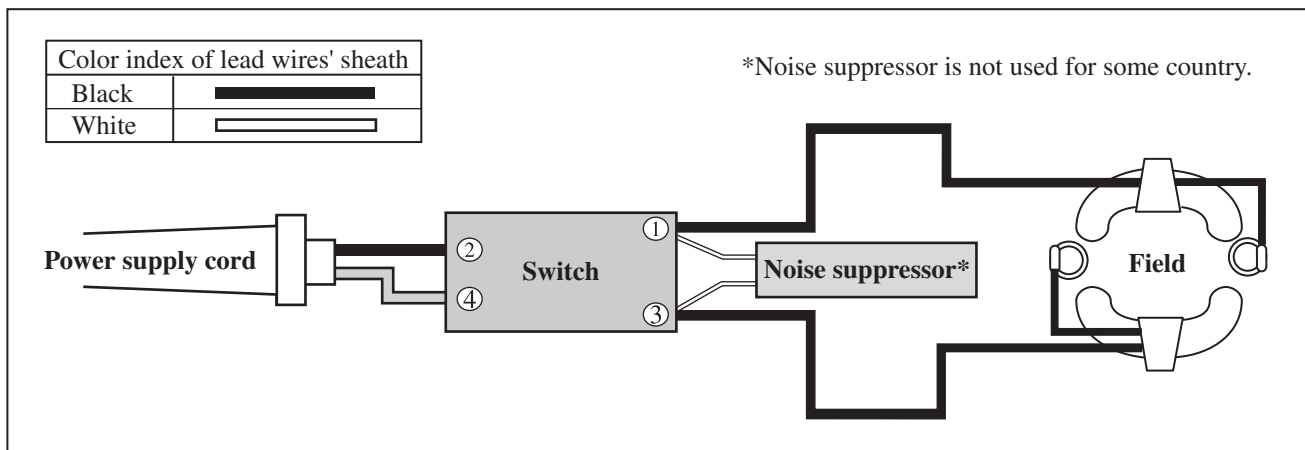
Follow the reverse of disassembling steps.

Note: Do not reinstall removed Pin cap because removal of Shoulder pin 5 damages the inside surface of Pin cap. Be sure to remove plastic dust of Pin cap from Shoulder pin 5 and to install it onto a brand-new Pin cap.

Fig. 13

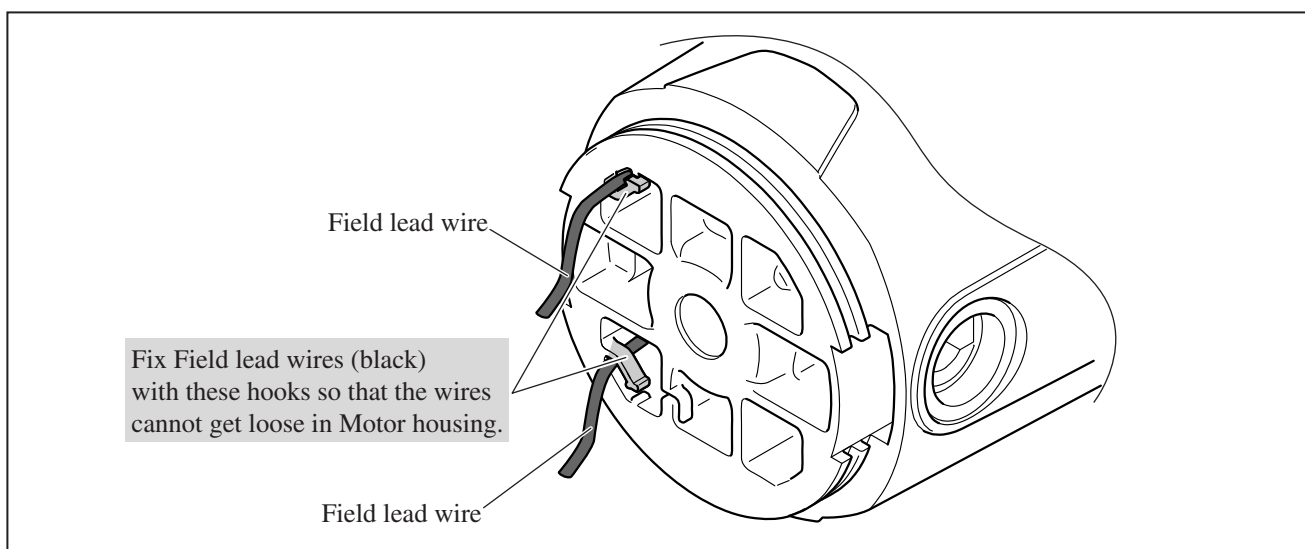


▶ **Circuit diagram**



▶ **Wiring diagram**

[1] **Motor Housing**



[2] **Handle**

