

TECHNICAL INFORMATION



PRODUCT

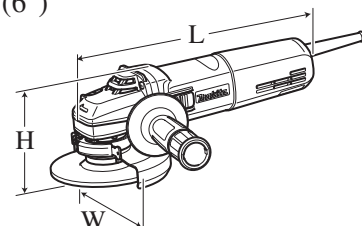
P 1 / 9

Model No. ▶ 9564CR/9564CVR, 9565CR/9565CVR, 9566CR/9566CVR

Description ▶ Angle Grinders 115mm (4-1/2"), 125mm (5"), 150mm (6")

CONCEPT AND MAIN APPLICATIONS

Models 9564CR/9564CVR, 9565CR/9565CVR, 9566CR/9566CVR are upgraded sister tools of 9564C/9564CV, 9565C/9565CV, 9566C/9566CV, featuring anti-restart function for added safety.



Dimensions: mm (")			
Model No.	9564CR 9564CVR	9565CR 9565CVR	9566CR 9566CVR
Length (L)	299 (11-3/4)		
Width (W)	129 (5-1/8)	139 (5-1/2)	169 (6-5/8)
Height (H)	103 (4-1/16)		

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output (W)
			Input	Output	
110	13	50/60	1,400	840	1,800
120	13	50/60	---	840	2,000
220	6.7	50/60	1,400	840	2,100
230	6.4	50/60	1,400	840	2,100
240	6.1	50/60	1,400	840	2,100

Model No.		9564CR	9564CVR	9565CR	9565CVR	9566CR	9566CVR
Wheel size: mm (")	Diameter	115 (4-1/2)		125 (5)		150 (6)	
	Hole diameter	22.23 (7/8)					
No load speed: min.-1 = rpm	North America	10,500	2,800 - 10,500	10,500	2,800 - 10,500	9,000	4,000 - 9,000
	Europe	11,000	2,800 - 11,000	11,000	2,800 - 11,000	10,000	4,000 - 10,000
	Other countries					9,000	4,000 - 9,000
Super Joint System (SJS)		Yes					
Electronic control	Constant speed control	Yes					
	Soft start	Yes					
	Electronic current limiter	Yes					
	Anti-restart function	Yes					
	Variable speed control by dial	No	Yes	No	Yes	No	Yes
Protection against electric shock		Double insulation					
Power supply cord: m (ft)		Australia, Chile, Brazil : 2.0 (6.6), Other countries: 2.5 (8.2)					
Net weight: kg (lbs)		2.2 (4.8)				2.3 (5.1)	
Weight according EPTA-Procedure 01/2003*: kg		2.2				2.3	

* with Wheel cover, Inner flange, Lock nut, Side grip; without Power supply cord

► Standard equipment

Side grip (standard soft grip) 1 (Anti-vibration grip instead if required)
 Toolless wheel cover 1 (Standard type instead if required)
 Lock nut wrench 1
 Depressed center wheel 1 (115-24 for 9564CR/9564CVR, 125-24 for 9565CR/9565CVR, 150-36 for 9566CR/9566CVR)

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

► Optional accessories

9564CR/ 9564CVR: Same optional accessories as available for 9564C/ 9564CV
 9565CR/ 9565CVR: Same optional accessories as available for 9565C/ 9565CV
 9566CR/ 9566CVR: Same optional accessories as available for 9566C/ 9566CV

► Repair

CAUTION: Unplug the tool and remove the wheel cover and grinding wheel from the machine for safety before repair/ maintenance in accordance with the instruction manual!

[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R004	Retaining ring pliers ST-2	Removing Retaining ring S-6 from Armature shaft of model 9566CR and 9566CVR
1R041	Vise plate	Use with Vise to protect the clamped part
1R217	Ring 22	Supporting Bearing box when Removing spindle from Large spiral bevel gear
1R268	Spring pin extractor 3	Removing Pin for Shaft lock
1R269	Bearing extractor	Removing Ball bearing 627DDW from commutator end of Armature
1R291	Retaining ring S & R pliers	Removing / mounting Retaining ring S-12 from / to the drive end of Armature shaft
1R340	Bearing retainer wrench	Removing / mounting Bearing retainer
1R350	Ring 60	Supporting Gear housing when removing Pin for Shaft lock

Note: Spiral bevel gears vary in type from model to model. See list shown below.

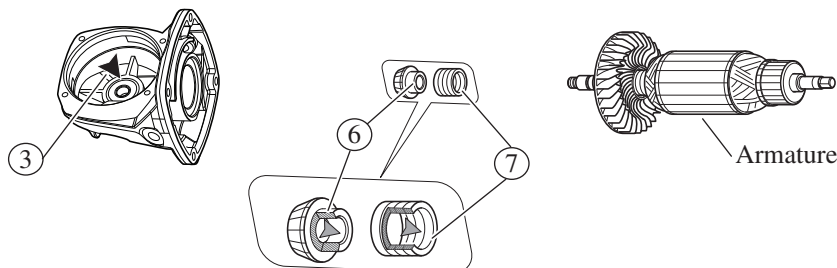
Model No.	Small spiral bevel gear on Armature shaft	Large spiral bevel gear on Spindle
9564CR, 9564CVR, 9565CR, 9565CVR	Spiral bevel gear 11 (teeth: 11)	Spiral bevel gear 38 (teeth: 38)
9566CR, 9566CVR	Spiral bevel gear 9 (teeth: 12)	Spiral bevel gear 35 (teeth: 35)

[2] LUBRICATIONS

Apply Makita grease SG No.0 and Disulfied molybdenum to the following portions designated with triangles to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Lubricant	Amount
③	Gear housing complete	Gear room	Makita grease SG No.0. ▼	15g
⑥	Small spiral bevel gear	Cylindrical portion where armature shaft is inserted	Disulfied molybdenum ▼	a little
⑦	Lock ring 12	Cylindrical portion which accepts ⑥'s drum portion		

Fig. 1



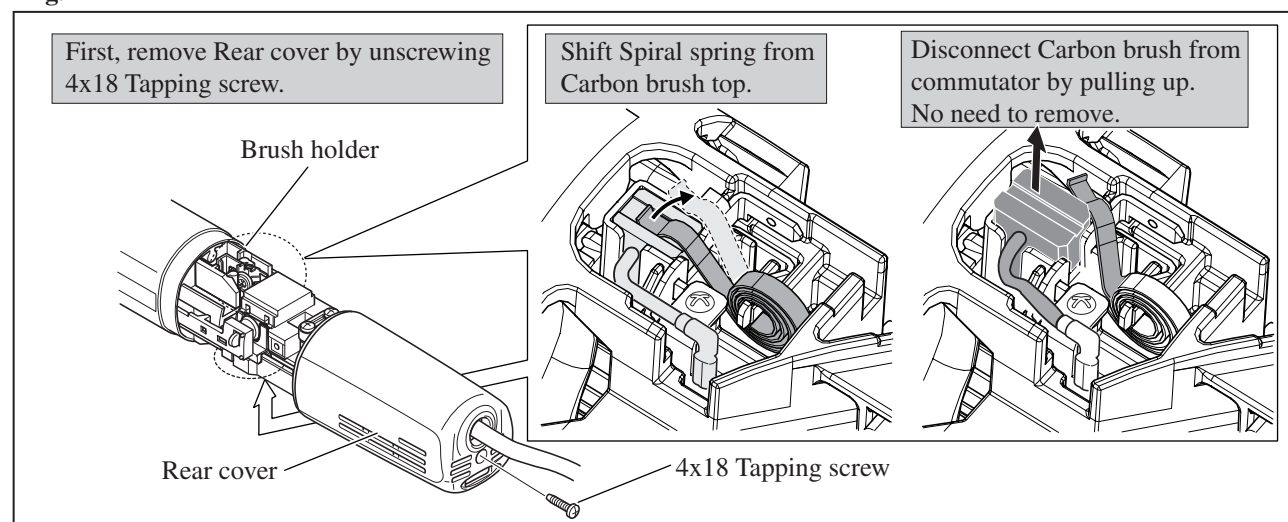
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature, Small Spiral Bevel Gear on Armature shaft

DISASSEMBLING

(1) In order to protect Armature's commutator, disconnect carbon brushes from the Commutator as illustrated in **Fig. 2**.

Fig. 2



► Repair

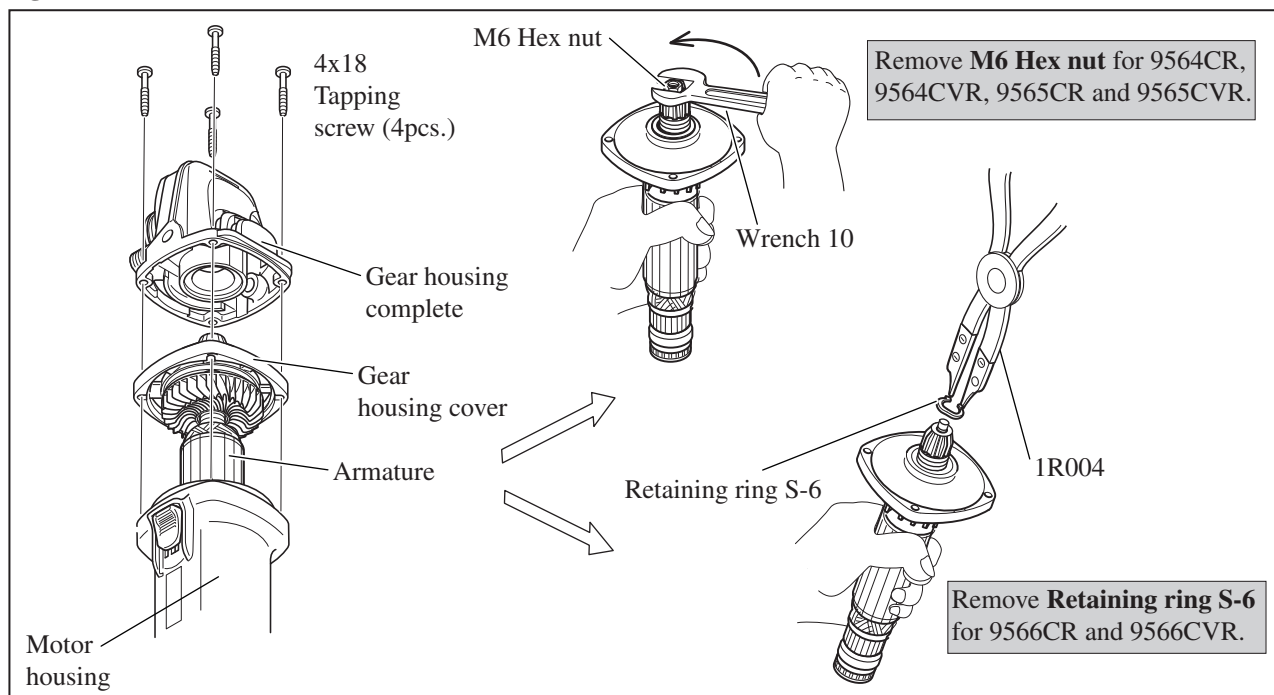
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature, Small Spiral Bevel Gear on Armature shaft (cont.)

DISASSEMBLING

- (2) Remove Motor housing and Gear housing complete by loosening 4x18 Tapping screws (4pcs.). And then remove M6 Hex nut or Retaining ring S-6 from Armature as illustrated in **Fig. 3**.

Fig. 3



- (3) Armature's Drive end can be disassembled as illustrated in **Figs. 4, 5**.

Fig. 4

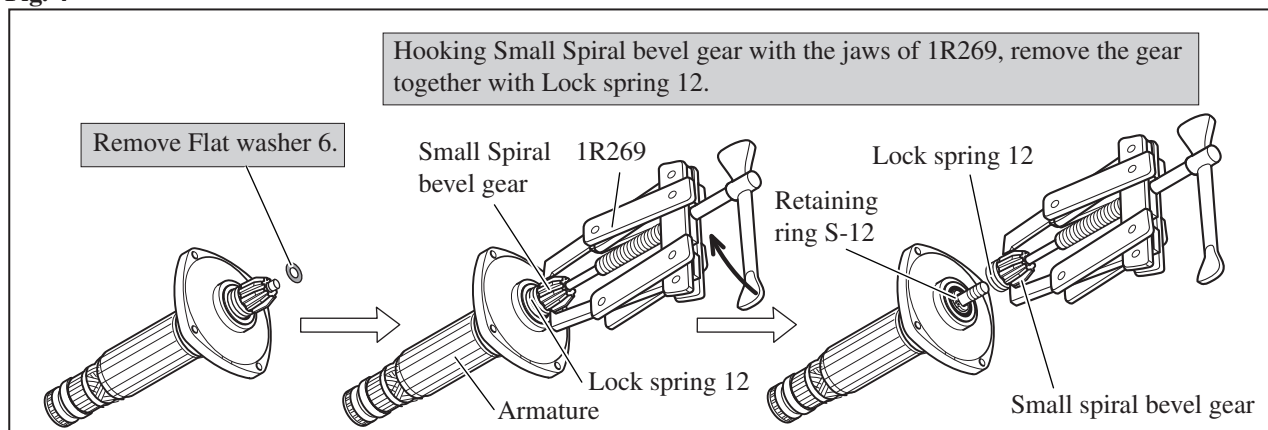
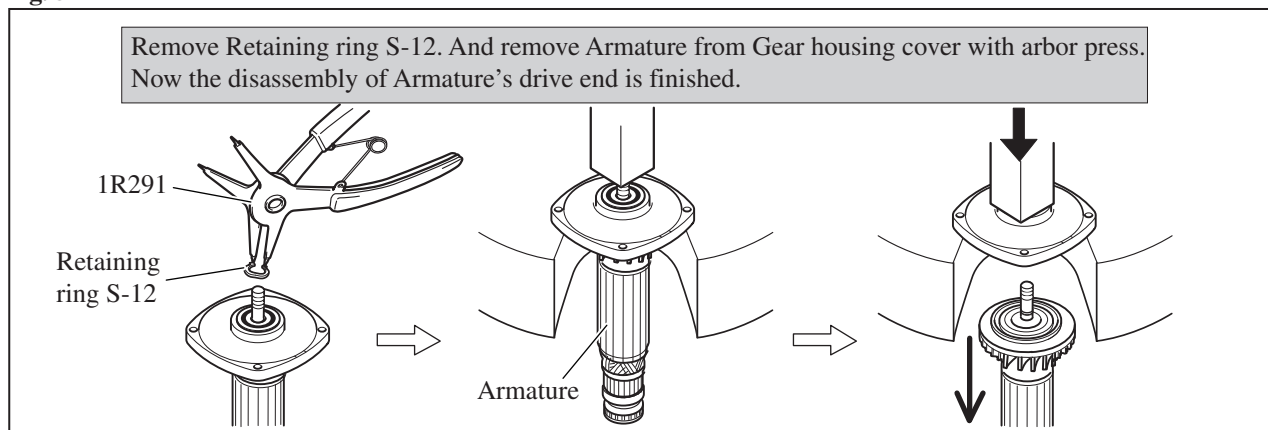


Fig. 5



► Repair

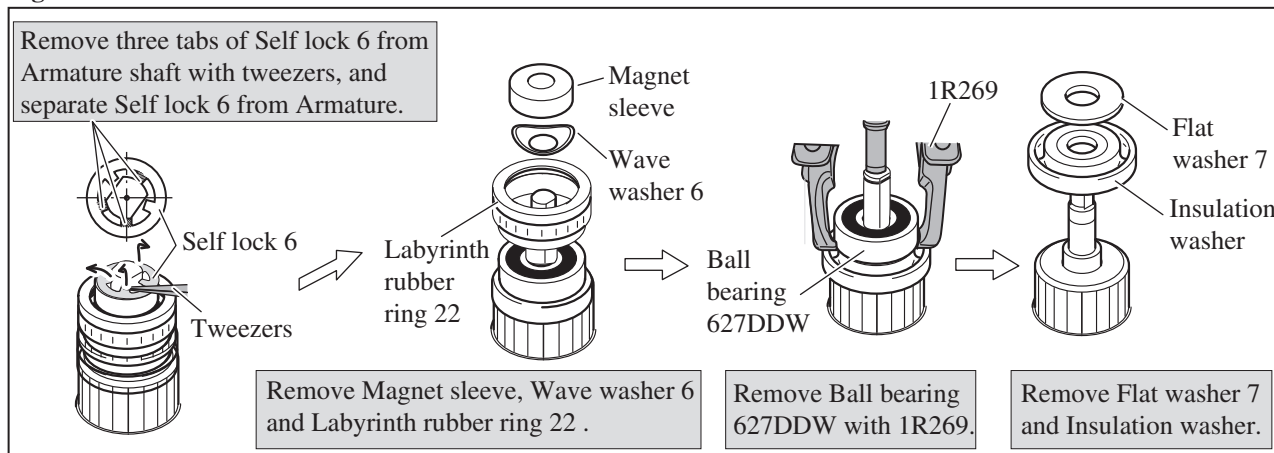
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature, Small Spiral Bevel Gear on Armature shaft (cont.)

DISASSEMBLING

(4) Armature's Commutator end can be disassembled as illustrated in **Fig. 6**.

Fig. 6



ASSEMBLING

Take the disassembling step in reverse.

Note: 1. Lock spring 12 has to be replaced with the fresh one when Small spiral bevel gear is replaced.

2. Pay attention to the direction of Wave washer 6. Refer to **Figs. 7F and 7R**.

3. Be sure to set Flat washers in place. (**Fig. 8**)

4. Assemble Gear housing complete and Gear housing cover as illustrated in **Fig. 9** so that Switch knob can be slid by right hand thumb.

Fig. 7F

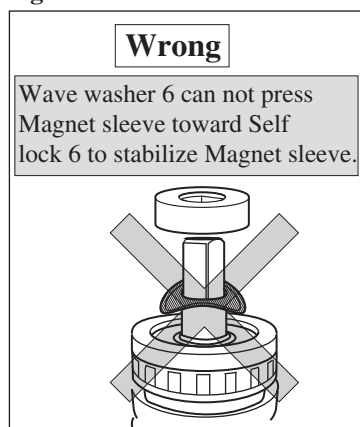


Fig. 7R

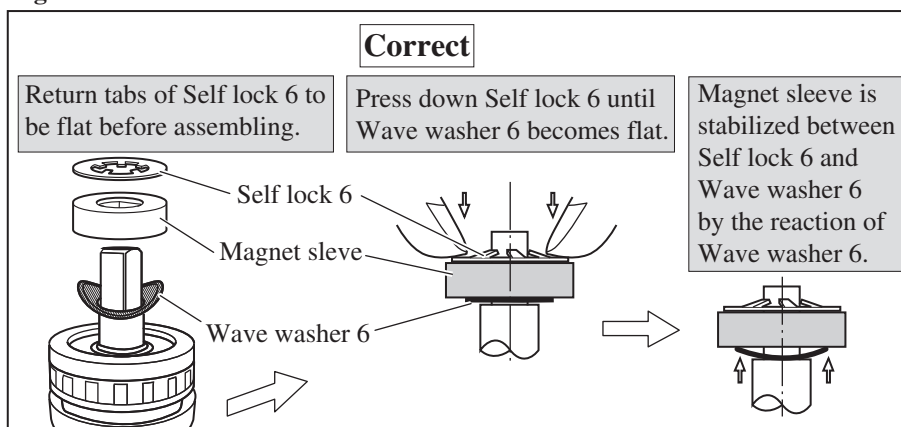


Fig. 8

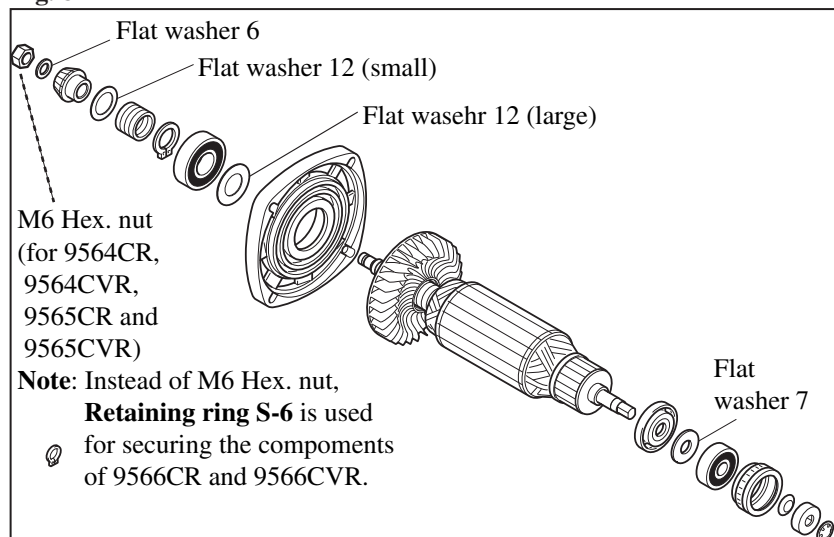
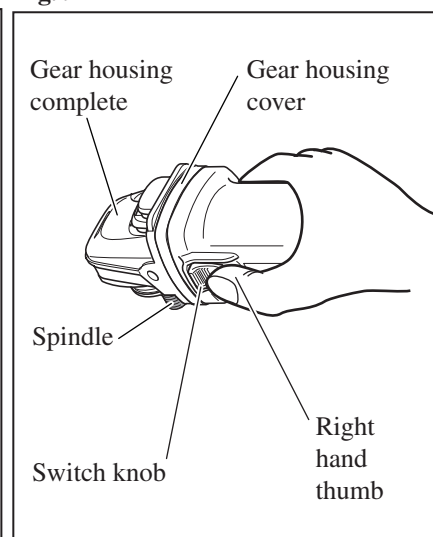


Fig. 9



Repair

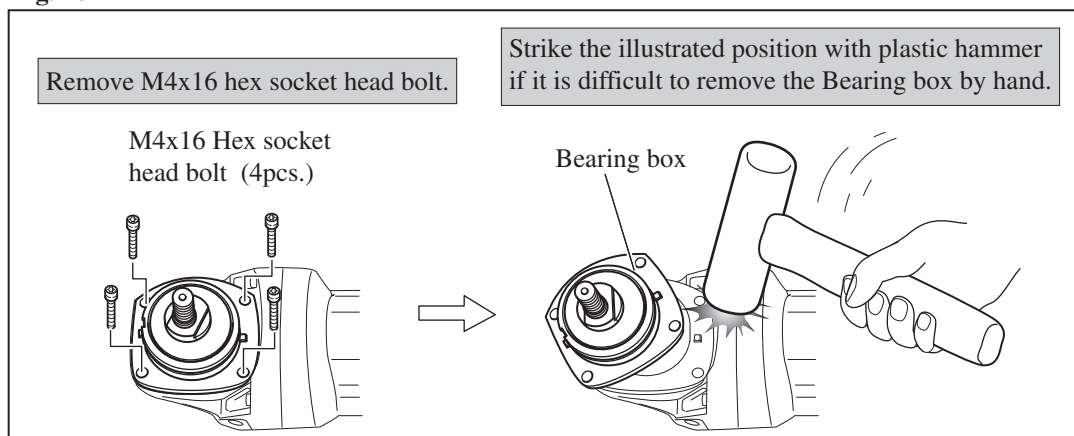
[3]-2 Large Spiral Bevel Gear on Spindle and Ball Bearing 6201DDW

DISASSEMBLING

Note: When removing the above mentioned parts from Bearing box, it is not necessary to remove Gear housing complete from Motor housing.

(1) Remove bearing box from Gear housing complete as illustrated in **Fig. 10**.

Fig. 10



(2) Large Spiral bevel gear, Spindle, Labyrinth ring, Ball bearing 6201DDW are disassemble from Bearing box in the order of **Figs. 11, 12, 13 or 13A**.

Fig. 11

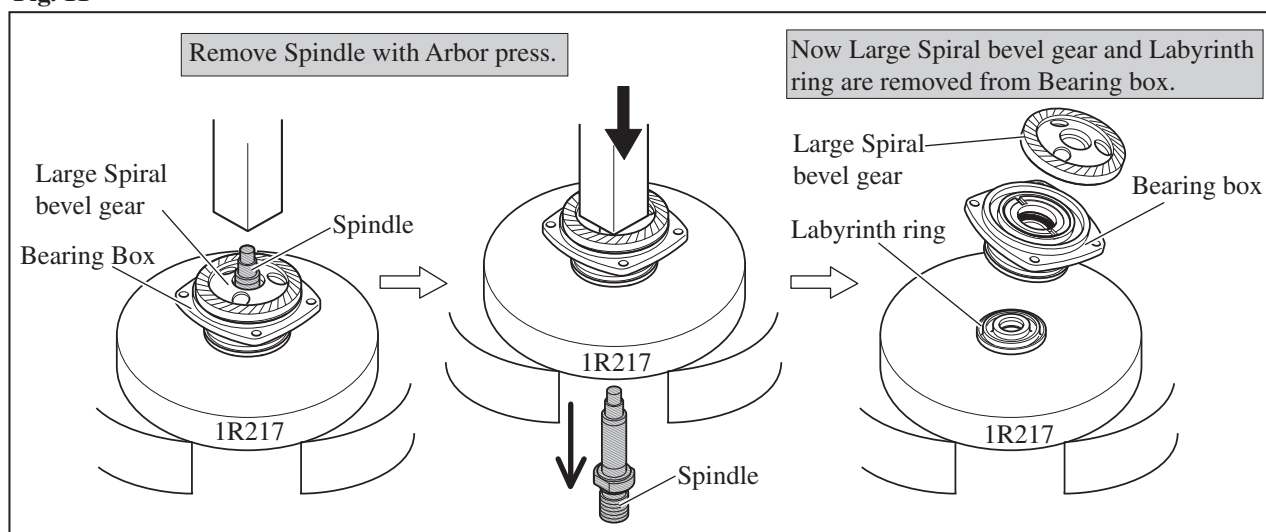


Fig. 12

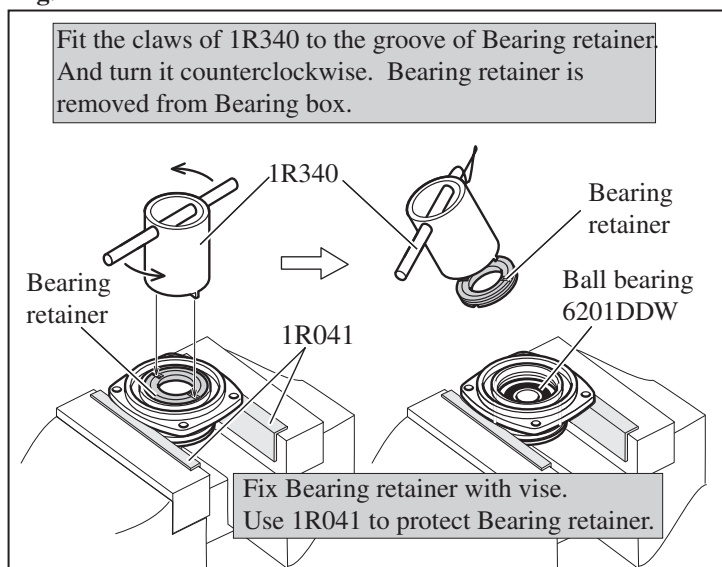
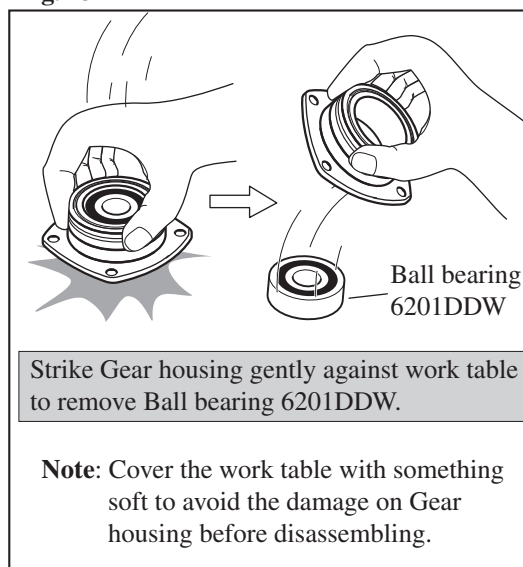


Fig. 13



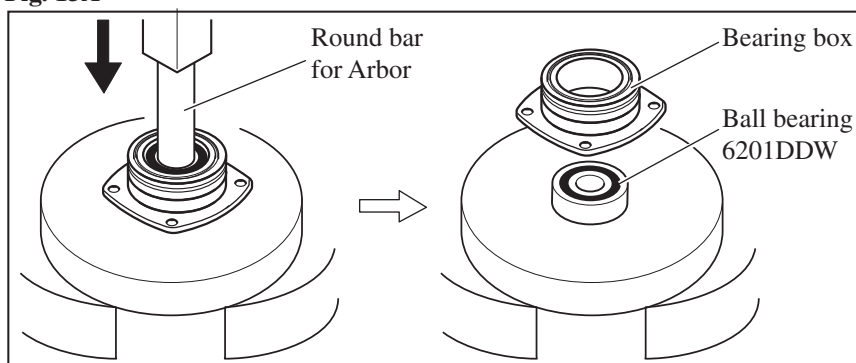
► Repair

[3]-2 Large Spiral Bevel Gear on Spindle and Ball Bearing 6201DDW (cont.)

DISASSEMBLING

Note: If it is difficult to remove Ball bearing 6201DDW in the way shown in **Fig. 13**, use Arbor press as illustrated in **Fig. 13A**.

Fig. 13A



ASSEMBLING

Take the disassembling step in reverse.

Note: Be sure to apply adhesive (i.e., ThreeBond 1321B/1342 or Loctite 242) to the threads of M4x16 Hex. socket head bolts (4pcs.) for securing Bearing box to Gear housing complete when reusing the bolts.

[3] DISASSEMBLY/ASSEMBLY

[3]-3 Shaft Lock Mechanism

DISASSEMBLING

Disassemble Shaft lock mechanism as illustrated in **Figs. 14 and 15**.

Fig. 14

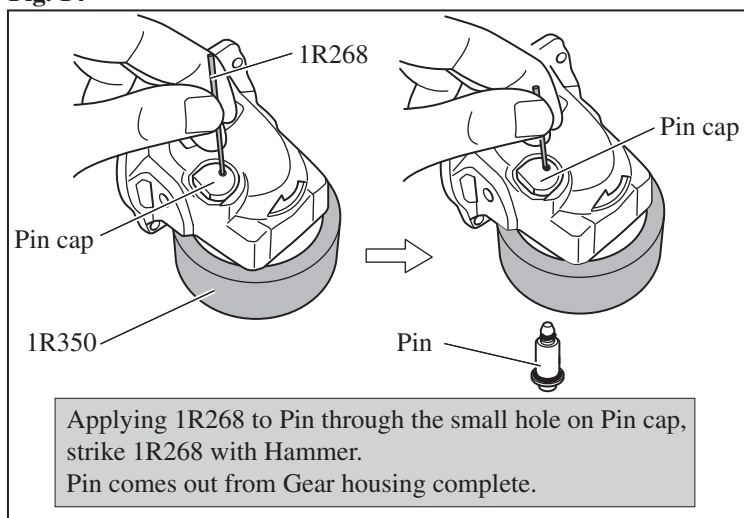
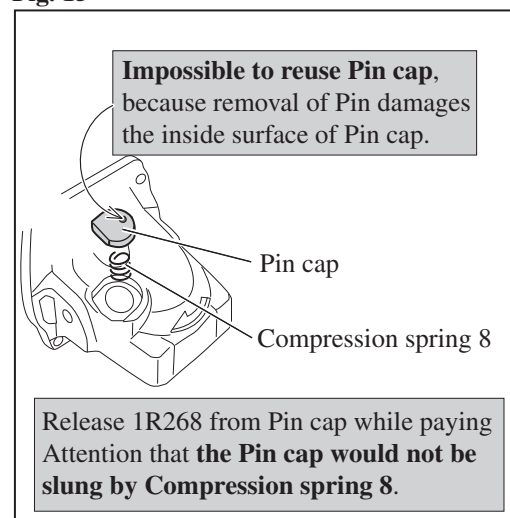


Fig. 15



ASSEMBLING

- (1) Be sure to use a new Pin cap for replacement and to remove all the plastic dust on Pin. (**Fig. 16**)
- (2) Assemble the components for Shaft lock mechanism as illustrated in **Fig. 17**.

Fig. 16

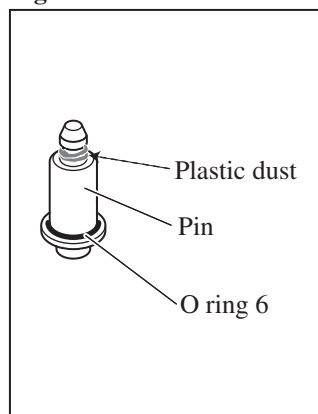
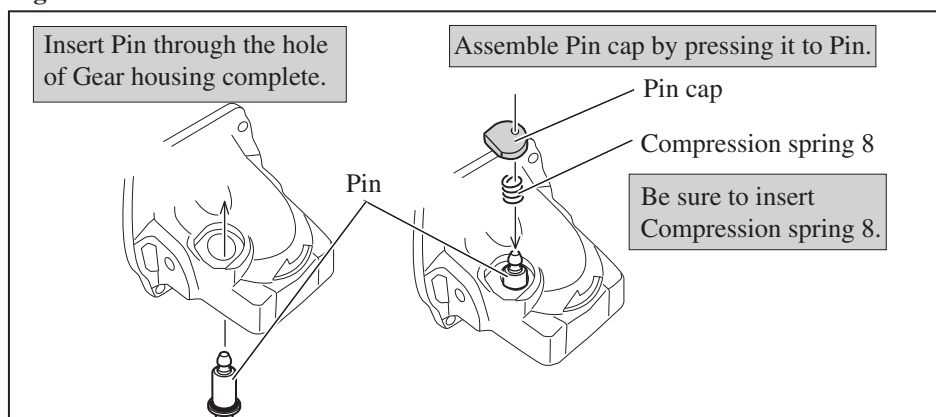
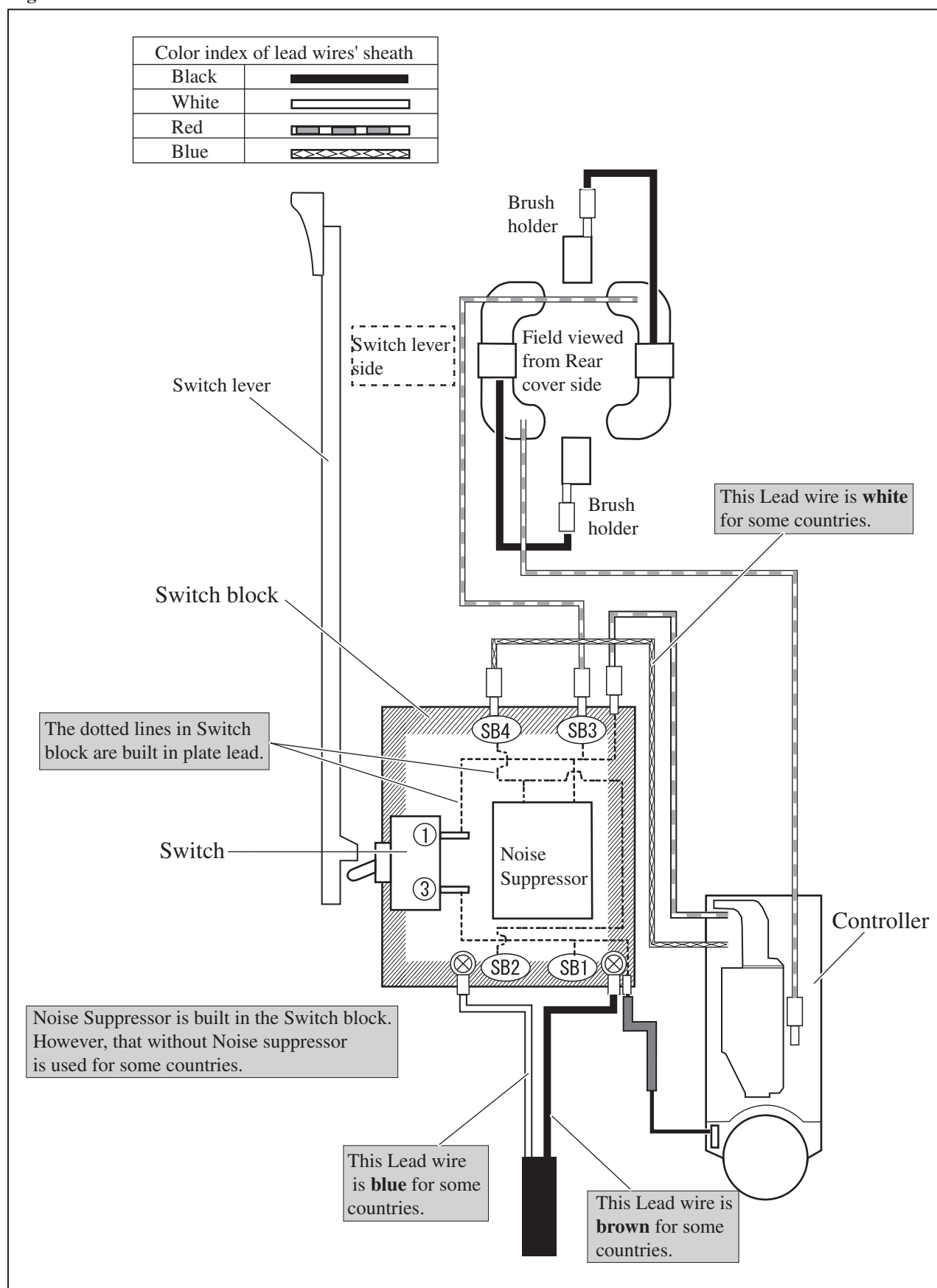


Fig. 17



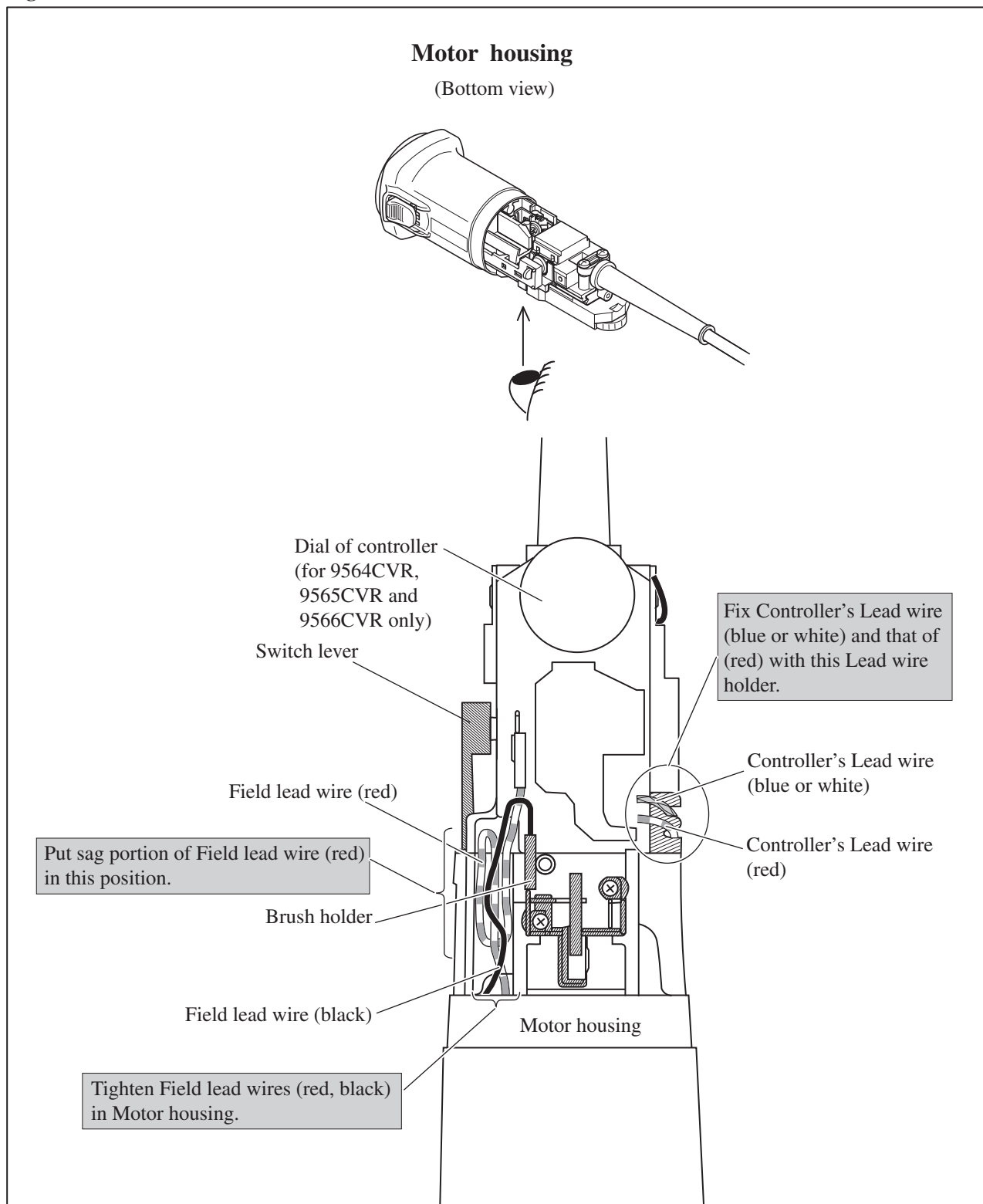
► Circuit diagram

Fig. D-1



► Wiring diagram

Fig. D-1



▶ Wiring diagram

Fig. D-3

