ECHNICAL INFORMATION

Models No. 🔵 🕨 HR262D/ BHR262, HR262TD/ BHR262T (HRH01C/HRH01, HRH02C/HRH02)*1

Description) > 26mm (1") Cordless Combination Hammers *1 Model numbers for North and Central American countries

CONCEPT AND MAIN APPLICATIONS

These 36V cordless combination hammers have been developed based on Models BHR261 and BHR261T, and feature compatibility with both Makita 36V-2.6Ah Li-ion battery BL3626 and 36V-2.2Ah Li-ion battery BL3622A.

(Note: BHR261 and BHR261T run on only 36V-2.6Ah battery BL3626.)

Other features are exactly the same as BHR261 and BHR261T as follows:

• 3 operation modes (rotation only/ rotation with hammering/ hammering only)

• Vibration absorbing handle and soft grips

• Good tool-balance due to the center of gravity closer to handle HR262TD/BHR262T (HRH02/HRH02C*1) are equipped with quick change chuck.

These new products are available in the variations listed in the next page.

Specification

			HR262D/ BHR262 (HRH01C/ HRH01)*1	HR262TD/ BHR262T (HRH02C/ HRH02)*1	
	Voltage: V		30	6	
Ca	Capacit	y: Ah	2.2/ 2.6		
Battery	Cell		Li-i	on	
	Energy	capacity: Wh	80/	94	
	Chargin	ng Time: min.	60 with DC36WA/	22 with DC36RA	
No load sp	beed: min.	$^{-1} = rpm$	0 - 1,	,200	
Impacts pe	er minute=	= min. ⁻¹	0 - 4,	,800	
Max. outp	ut (W)		500		
Chuck type	e		Adapted for SDS-PLUS bits	Adapted for SDS-PLUS bits and Round shank bits*2	
		Concrete	26(1)		
Capacity:	mm (")	Steel	13 (1/2)	
		Wood	32 (1-	-1/4)	
Operation	mode		3 modes (Rotation only/ Rotation with hammering/ Hammering only)		
Variable s	peed conti	rol	Yes (by trigger)		
Reverse switch			Yes		
Torque limiter			Yes		
LED job light			Yes		
Weight ac EPTA-Pro		/2003 *3 : kg (lbs)	4.5 (9.9)	4.8 (10.6)	

*2 Round shank bits can also be used by replacing the factory-mounted chuck with Quick change drill chuck (keyless). *3 with Battery and Side grip

Standard equipment

Grip assembly	1
Depth gauge (Stopper pole)	1
Quick change drill chuck	1
(for HR262TD/BHR262T,	
HRH02/HRH02C*1)	
Bit grease	1
(for some country)	
Waste cloth	1
(for some country)	
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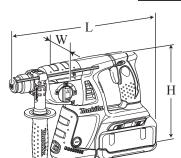
Note: The standard equipment for the tool shown above may vary by country.

Optional accessories

SDS-PLUS bits Taper shank TCT bits Taper shank adapter Cotter Grip drill Grip drill holder Drill chuck assembly Chuck adapter Drill chuck S13 Chuck key S13 SDS-Plus hammer chuck set Scraper assembly Dust cup 5

Dust cup 9 Dust extractor attachment Grease vessel 30g Hose Joint 25 Bit grease Plastic carrying case Depth gauge (Stopper pole) Blow out bulb Cold chisels Keyless drill chuck Safety goggles Dust cup

Grooving chisels **Bull** points Scaling chisels Fast charger DC36RA Battery BL3626 Charger DC36WA Battery BL3622A Battery adapter BAP36N Battery converter BCV01 Battery converter BCV02 Side grip set Grip base set



Dimensions: mm (")			
	HR262D/ BHR262	HR262TD/ BHR262T	
Length (L)	363 (14-1/4)	387 (15-1/4)	
Width (W)	104 (4-1/8)		
Height (H)	235 (9-1/4)		

TAR PRODUC P 1/22

► Variation list

BHR262/ HR262D

Model No	Charger	Battery		Battery	Plastic carrying	Battery	Battery
1110401110.	Charger	Туре	Quantity	cover	case	adapter	converter
BHR262Z	No	No	No	No	No	No	No
BHR262ZC	No	No	No	No	No	No	BCV01
BHR262Z2C	No	No	No	No	No	No	BCV02
BHR262RD	DC36RA	BL3626	1	No	Yes	No	No
BHR262RDE	DC36RA	BL3626	2	1	Yes	No	No
BHR262DP1	DC36RA	BL3626	2	1	Yes	BAP36N	No
HR262DZ	No	No	No	No	No	No	No
HR262DWB	DC36WA	BL3622A	1	No	Yes	No	No
HR262DWBE	DC36WA	BL3622A	2	1	Yes	No	No
HR262DBP1	DC36WA	BL3622A	2	1	Yes	BAP36N	No

BHR262T/ HR262TD

Model No.	Charger	Battery		Battery Plastic	Plastic carrying	Battery	Battery
		Туре	Quantity	cover	case	adapter	converter
BHR262TZ	No	No	No	No	No	No	No
BHR262TRDE	DC36RA	BL3626	2	1	Yes	No	No
BHR262TDP1	DC36RA	BL3626	2	1	Yes	BAP36N	No
HR262TDZ	No	No	No	No	No	No	No
HR262TDWBE	DC36WA	BL3622A	2	1	Yes	No	No

HRH01*1/ HRR01C*1, HRH02*1/ HRH02C*1

Model No.	Charger	Bat	Battery Battery		Plastic carrying	Battery	Battery
Widder No.		Туре	Quantity	cover	case	adapter	converter
HRH01Z	No	No	No	No	No	No	No
HRH01ZX2	No	No	No	No	No	No	BCV02
HRH01	DC36RA	BL3626	2	1	Yes	No	No
HRH01C	DC36WA	BL3622A	2	1	Yes	No	No
HRH02ZX2	No	No	No	No	No	No	BCV02
HRH02	DC36RA	BL3626	2	1	Yes	No	No
HRH02C	DC36WA	BL3622A	2	1	Yes	No	No

Note: All models also include the accessories listed in "Standard equipment" of page 1.

*1 Model numbers for North and Central American countries

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

[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
10.02	Dataining ring S plians ST 2N	Removing Ring spring 19 from Tool holder complete/ Tool holder guide complete
1R003	Retaining ring S pliers ST-2N	Removing Retaining ring WR-12 from Armature shaft
1R004	Retaining ring S pliers ST-2	Removing Ring spring 29
1R022 or 1R356	Bearing plate (for arbor press)	Removing Ring spring 29
1R032	Bearing setting plate 8.2	Assembling Spiral bevel gear 26
1R033	Bearing setting plate 10.2	Assembling Spiral bevel gear 26
1R139	Drill chuck extractor	Removing Spiral bevel gear 26
1R164	Ring spring setting tool A	Assembling Oil seal 25 to Gear housing complete
1R165	Ring spring setting tool B	Assembling Needle bearing complete to Gear housing complete
1R170	T-type hex wrench 3-127	Removing two M4x25 hex socket head bolts on Inner support complete
1R212	Tip for Retaining ring pliers	Attachment of 1R003
1R232	Pipe 30	Assembling Oil seal 25 to Gear housing complete
1R249	Round bar for arbor 24-100	Removing Ring spring 28
1R252	Round bar for arbor 30-100	Removing Oil seal 25 from Gear housing complete
1R269	Bearing extractor	Removing Ball bearing 608ZZ from Inner support complete
1R281	Round bar for arbor 7-50	Removing Ring 8
1R291	Retaining ring S and R pliers	Removing Retaining Ring S-7
1R306	Ring spring removing jig	Removing Ring spring 29 from Tool holder complete/ Tool holder guide complete
318132-2	Piston cylinder	Assembling Ring spring 28 to Tool holder complete/ Tool holder guide complete

[2] LUBRICATION

- Apply the following grease to protect parts and product from unusual abrasion. * Makita grease RB No.00 to the portions indicated by black triangle * Molybdenum disulfide lubricant to the portions indicated by gray triangle

Item No.	Description	Portion to lubricate	Lubricant	Amount		
(40)	O ring 16	Whole surface	Malrita arraga DD Na 00			
	(1) Distan aulindar	(a) Inside where Striker moves	- Makita grease RB No.00			
(41)	Piston cylinder	(b) Outside that contacts Tool holder (guide) complete	Molybdenum disulfide	1		
(42)	Guide plate	Inside that contacts (43) Piston joint				
43	Piston joint	Grooves that contact (42) Guide plate				
(44)	Compression spring 14	End to be fixed to the boss in Inner housing complete	- Makita grease RB No.00			
48	Spur gear 10	Gear portion that engages with Spur gear 51	- IVIAKITA GIEASE KD INO.00			
		(c) Gear portion that engages with 50 Clutch cam		a little		
(49)	Cam shaft	(d) Portion to be inserted into (51) Swash bearing 10				
		(e) Small diameter portion to be inserted into (48) Spur gear 10	- Molybdenum disulfide			
(50)	Clutch cam	(f) Groove for hooking Change plate		e		
	Clutch cam	(g) Gear portion that engages with (49) Cam shaft				
		(h) Pole portion to be inserted into (43) Piston joint				
(51)	Swash bearing 10	(i) Ball bearing portion (See Fig. 3.)	Makita grease RB No.00	4g		
		(j) Inside of hole				
53	Spiral bevel gear 26	Gear portion that engages with Armature shaft gear	-	a little		
	Fig. 1 Striker 40 (a) 41 (b) 42 43 Transmission parts Image: Comparison parts Image: Comparison parts Image: Comparison parts Image: Comparison parts					
Compression spring 7 (c) (d) (i) (i) (i)						
	Ball bearing 606ZZ Retaining ring S-7 48 (e) 49 (f) 50 (g) 51 53					

Repair [2] LUBRICATION ()

[2] LUBRICATION (cont.) Apply Makita grease RB No.00 to the following portions indicated by black triangle to protect parts and product from unusual abrasion.

	1 No. BHR262T HR262T	Description	Portion to lubricate			
	(111)	Cap 35	Lip portion where Bit is to be inserted			
(4)		Ring 21	Inner periphery			
	(114)	Stopper	Inner periphery			
	(120)	Steel Ball 6 (2 pcs.)	Entire surface			
	(124)	Steel Ball 5	Entire surface			
	3	Change lever	Pins			
1	6	O ring 17	Entire surface			
(Ì	Gear housing complete	(a) Oil seal 25 on the inside of Gear housing complete(b) Inside where Swash bearing section rotates (See Fig. 3.)			
1	9	Needle bearing complete	Needle bearing portion in Cup washer (See Fig. 37.)			
Q		Lock plate complete	Pins			
	-		(c) Gear portion			
e e	9	Spur gear 51	(d) Surface where Clutch portion of 30 Tool holder (guide) complete contacts			
29	(115)	Steel ball 7	Entire surface			
30		Tool holder complete	Inside where Piston cylinder reciprocates			
	30	Tool holder guide complete	inside where i iston cynnder reciprocates			
3		Sleeve 9	Inside where Impact bolt reciprocates			
3		Ring 10	Portion that contacts Cushion ring 13			
3)	O ring 9	Entire surface			
1 BHR26 HR2621			(c) 28 (d) (12) (24) (24) (24) (24) (24) (24) (24) (2			
Swash b	bearing sectors.	tion: 4g	Inside view of Inner housing]			

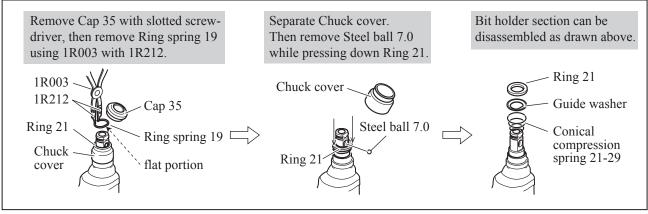
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► Repair

[3] DISASSEMBLY/ASSEMBLY [3] -1. Bit holder section for BHR262, HR262D Holder section for Drill chuck of BHR262T, HR262TD

DISASSEMBLING for BHR262, HR262D

Fig. 4

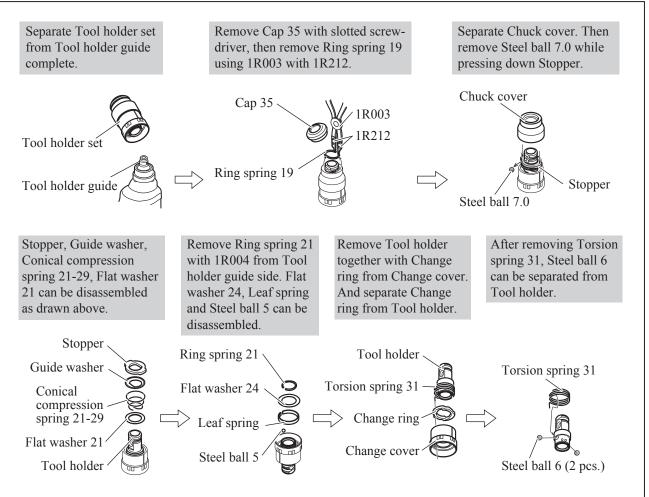


ASSEMBLING for BHR262, HR262D

Take the disassembling step in reverse.

Note: Be sure to place the flat portion of Ring spring 19 on Steel ball 7.0. (Fig. 4)

DISASSEMBLING for BHR262T, HR262TD



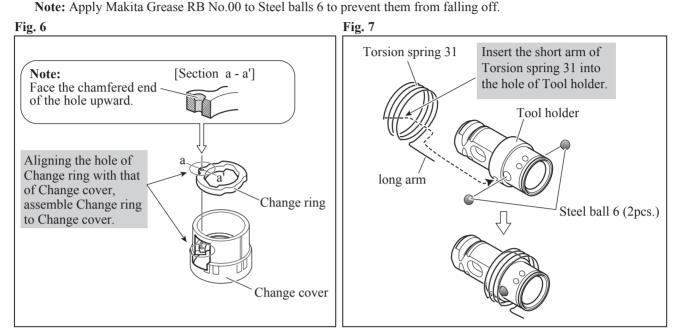
[3] DISASSEMBLY/ASSEMBLY

[3] -1. Bit holder section for BHR262, HR262D Holder section for Drill chuck of BHR262T, HR262TD (cont.)

ASSEMBLING for BHR262T, HR262TD

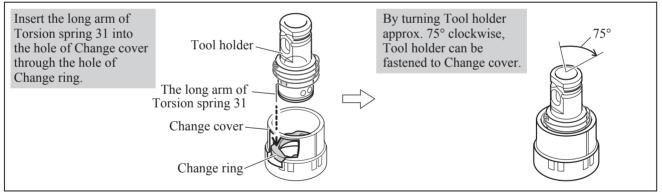
(1) Assemble Change ring to Change cover. (Fig. 6)

(2) Assemble Torsion spring 31 to Tool holder, then mount Steel balls 6 to Tool holder. (Fig. 7)



(3) Assemble Tool holder to Change cover. (Fig. 8)

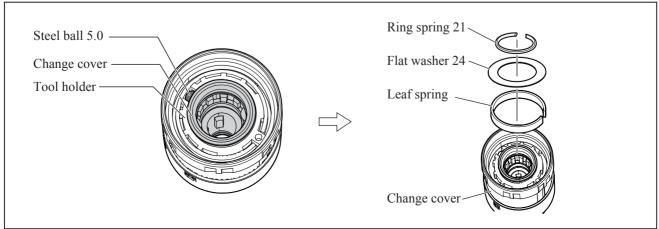
Fig. 8



(4) Put Steel ball 5.0 in the groove surrounded by Change cover and Tool holder. (left in Fig. 9)

(5) Set Leaf spring and Flat washer 24 in change cover, then secure them with Ring spring 21. (right in Fig. 9)

(6) As for the assembling of Cap 35 side, do the reverse of disassembling steps. Refer to Fig. 4.

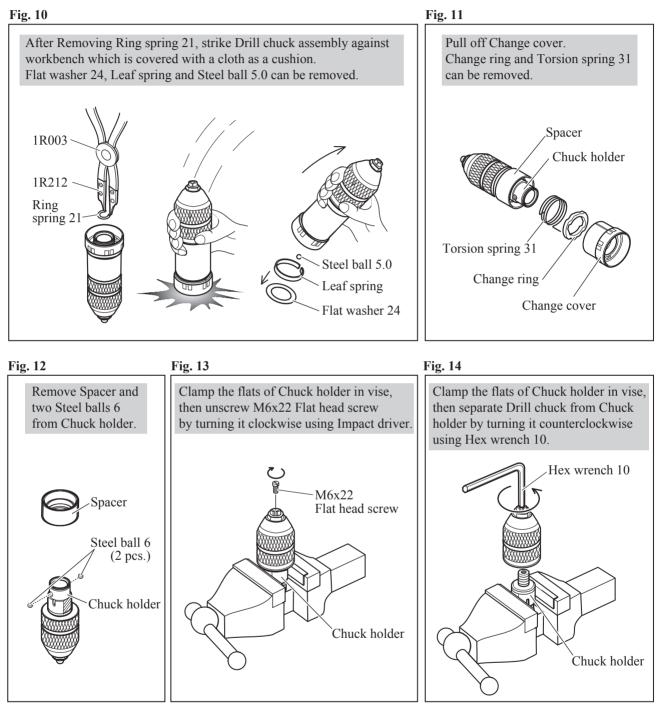




[3] DISASSEMBLY/ ASSEMBLY[3] -2. Drill chuck assembly for BHR262T, HR262TD

DISASSEMBLING

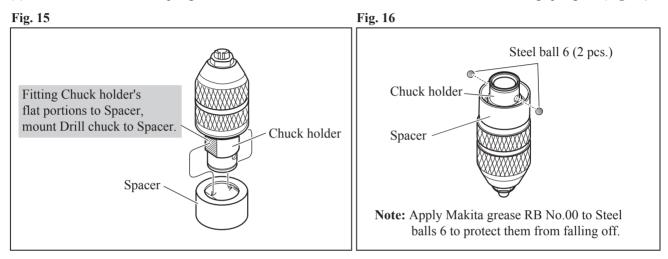
Drill chuck assembly can be disassembled as drawn in Figs. 10 to 14.

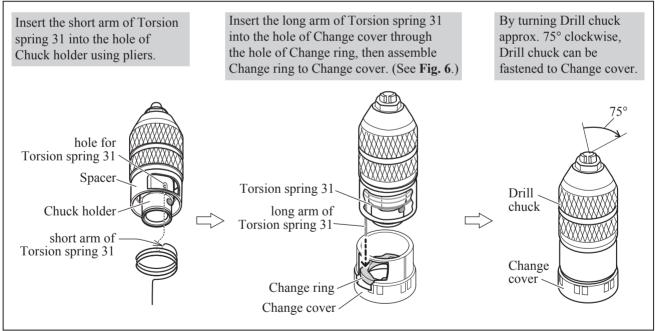


Repair [3] DISASSEMBLY/ ASSEMBLY [3] -2. Drill chuck assembly for BHR262T, HR262TD (cont.)

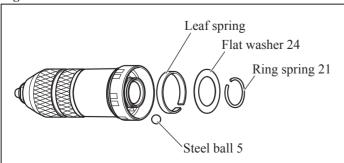
ASSEMBLING

- (1) Holding Chuck holder's flat portions in vise, assemble Drill chuck to Chuck holder by turning it **clockwise** using Hex wrench 10.
- (2) Secure Drill chuck with M6x22 Flat head screw by turning it counterclockwise using Impact driver.
- (3) Assemble Drill chuck to Spacer. (Fig. 15) Then mount two Steel balls 6. (Fig. 16)
- (4) Mount Torsion spring 31. Then assemble Drill chuck to Change cover. (Fig. 17)
- (5) Mount Steel ball 5, Leaf spring and Flat washer 24 to Chuck holder, then secure them with Ring spring 21. (Fig. 18)





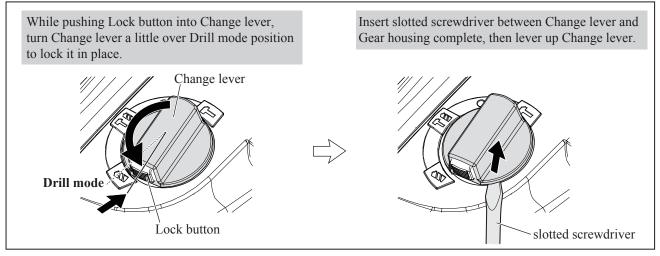




[3] DISASSEMBLY/ASSEMBLY[3]-3. Change lever

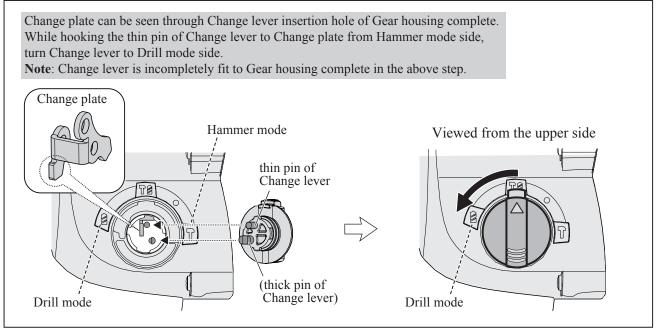
DISASSEMBLING

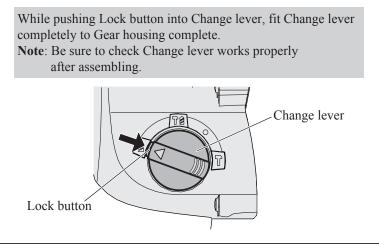
Fig. 19



ASSEMBLING

Fig. 20





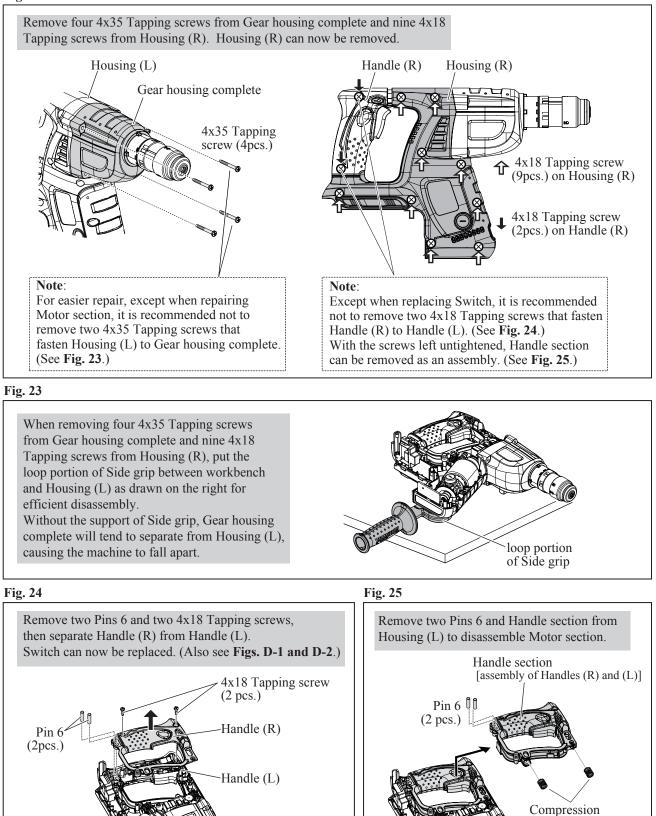
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spring 10 (2 pcs.)

Repair [3] DISASSEMBLY/ASSEMBLY [3]-4. Motor section, Switch

DISASSEMBLING

Note: Motor section and Switch can be replaced without removing Carbon brushes. Fig. 22



Repair [3] DISASSEMBLY/ASSEMBLY [3]-4. Motor section, Switch (cont.)

DISASSEMBLING

Fig. 26

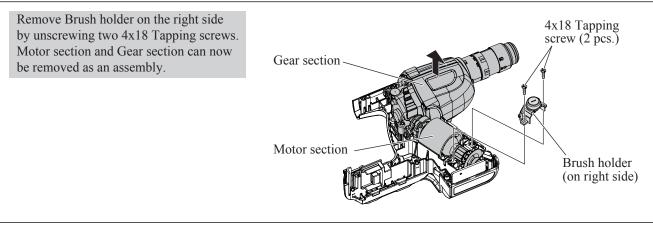
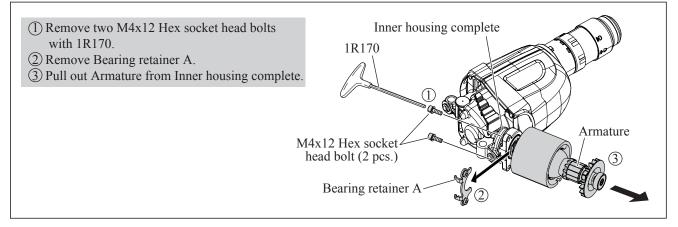
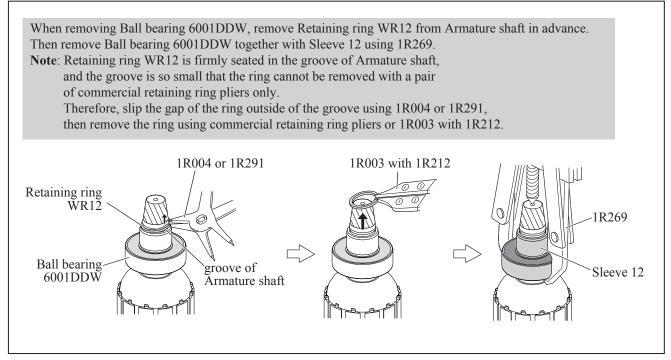


Fig. 27





Repair [3] DISASSEMBLY/ASSEMBLY [3]-4. Motor section, Switch (cont.)

ASSEMBLING

Fig. 29

When inserting Armature into Inner housing complete, do not fail to pass Armature through Yoke unit in advance.

Note: Yoke unit is not directional when assembled with Armature.

Without enough care, Ball bearing 6001DDW on the drive-end of Armature may often be incompletely seated in the bearing room of Inner housing complete. Therefore, fit Ball bearing 6001DDW completely into the bearing room in Inner housing complete while carefully turning Armature by hand to engage the gear of Armature shaft with Spiral bevel gear 26 in Inner housing complete. Then fix Ball bearing 6001DDW with Bearing retainer and two M4x12 Hex socket head bolts.

Note: Be sure to apply adhesive (ThreeBond 1321B/ 1342 or Loctite 242) to the threads when reusing M4x12 Hex socket head bolts removed from the machine because they are threadlocking bolts.

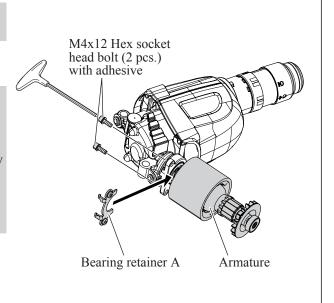
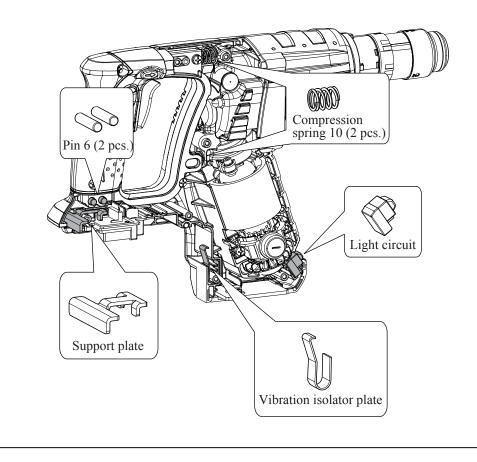


Fig. 30

Make sure that the five parts shown below are set in place before mounting Housing R to Housing L.



[3] DISASSEMBLY/ASSEMBLY

[3]-5. Tool holder section for BHR262, HR262D/ Tool holder guide section for BHR262T, HR262DT

DISASSEMBLING

Note: Tool holder (guide) section can be removed without disassembling Housing section.

(1) Remove Chuck section as drawn in Figs. 4 and 5.

(2) Remove Change lever as drawn in Fig. 19.

- (3) Remove four 4x35 Tapping screws as drawn in Fig. 22.
- (4) Take steps drawn in Figs. 31 and 32.

Fig. 31

Fig. 32

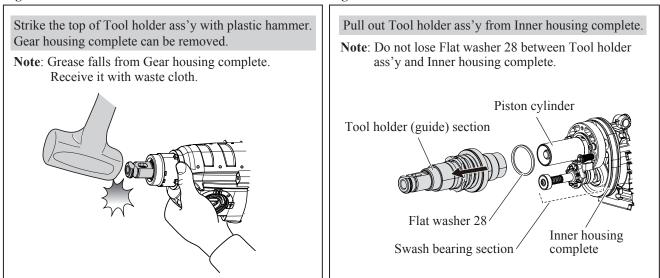
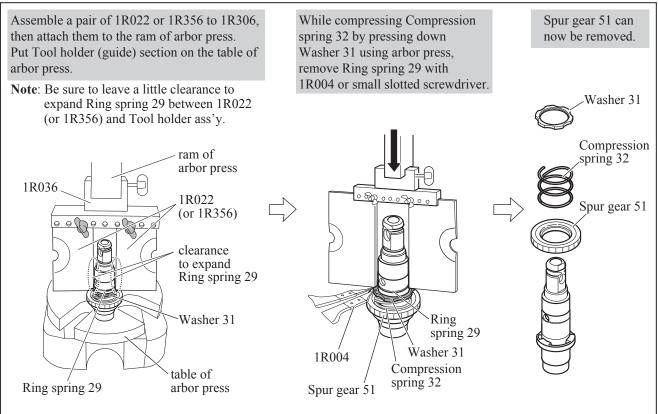


Fig. 33



ASSEMBLING

Take the disassembling step in reverse.

[3] DISASSEMBLY/ASSEMBLY[3]-6. Needle bearing complete and Oil seal 25

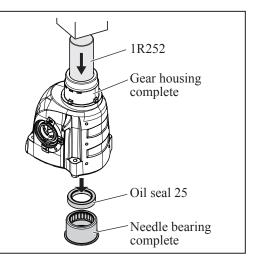
DISASSEMBLING

Fig. 34

Put Gear housing complete on arbor press table, and keep it upright. Then, by pressing down Oil seal 25 using 1R252, Oil seal 25 and Needle bearing complete can be removed from Gear housing complete with gentle pressure.

Note:

On arbor press table, Gear housing complete can stand almost upright on its end edges. Although the end edges are rather thin, you need not worry about breakage because Oil seal 25 and Needle bearing complete are fitted to Gear housing complete with low press fit force.



ASSEMBLING

- 1) Assemble Oil seal 25 to Gear housing complete. (Figs. 35, 36)
- 2) Assemble Needle bearing complete. (Fig. 37)

Fig. 35

With 1R232 and arbor press, insert Oil seal 25 until it stops. In this step, Oil seal 25 is not yet inserted completely because the outer diameter of 1R232 is larger than that of Oil seal setting hole.

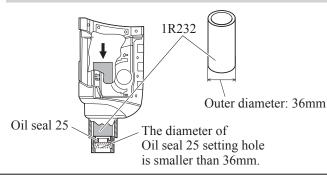
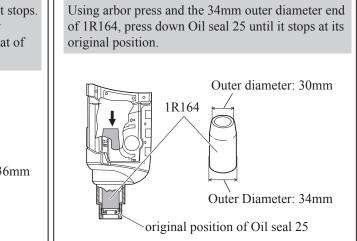
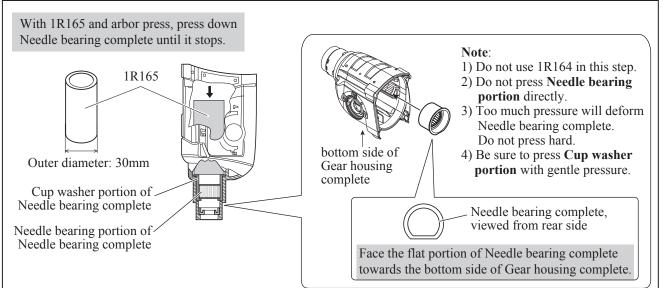


Fig. 36





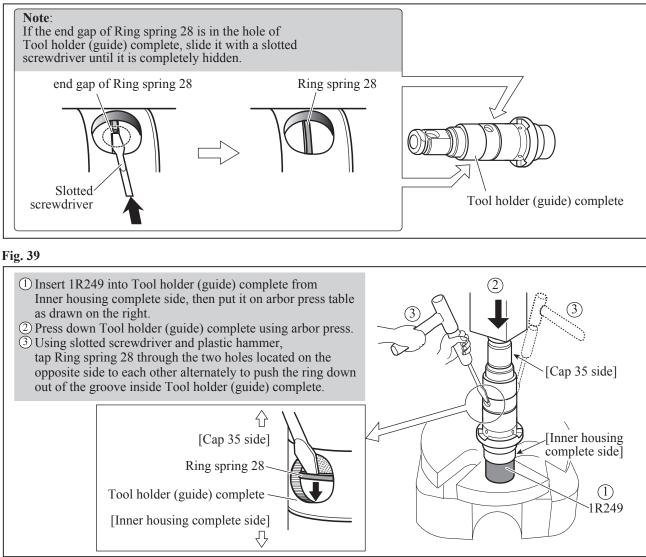
[3] DISASSEMBLY/ASSEMBLY

[3]-7. Impact bolt in Tool holder complete for BHR262, HR262D)/ Tool holder guide complete for BHR262T, HR262TD

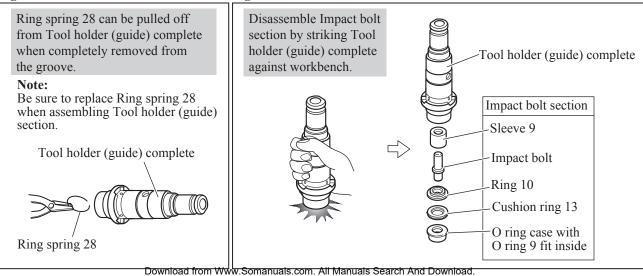
DISASSEMBLING

- (1) When Striker is left in Tool holder (guide) complete, push Striker out of Tool holder (guide) complete
- by inserting 1R281 from the top end then by striking 1R281 with plastic hammer.
- (2) Remove Tool holder (guide) section as instructed in [3]-5.
- (3) Remove Ring spring 28 from Tool holder (guide) complete and disassemble Impact bolt section. (Figs. 38 to 41)

Fig. 38







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► Repair

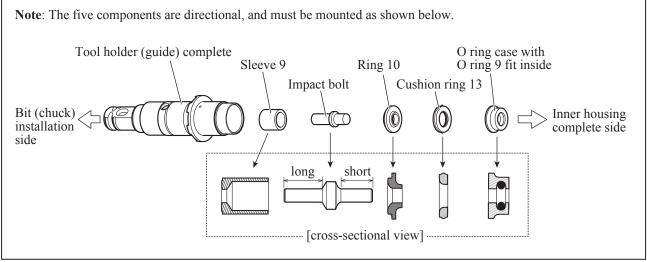
[3] DISASSEMBLY/ASSEMBLY

[3]-7. Impact bolt in Tool holder complete for BHR262, HR262D)/ Tool holder guide complete for BHR262T, HR262TD (cont.)

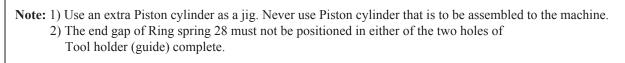
ASSEMBLING

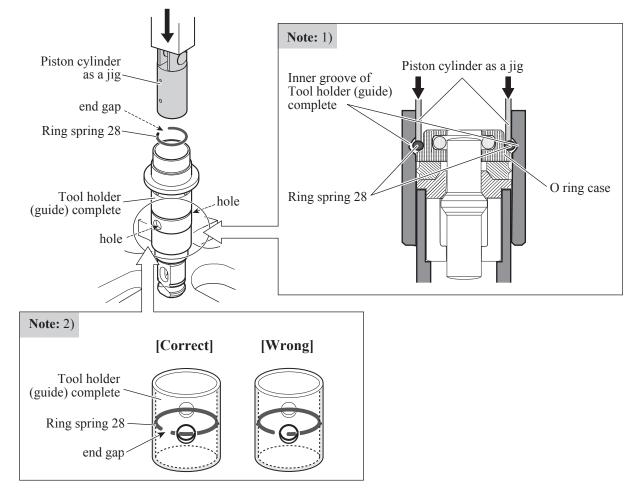
1) Assemble Impact bolt section to Tool holder (guide) complete as drawn in Fig. 42.

Fig. 42



2) Push Ring spring 28 into the inner groove of Tool holder (guide) complete as drawn in **Fig. 43**. **Fig. 43**





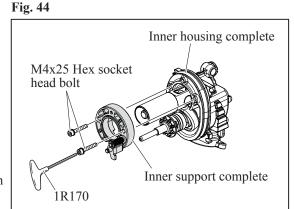
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Repair [3] DISASSEMBLY/ASSEMBLY [3]-8. Swash bearing 10, Gear section

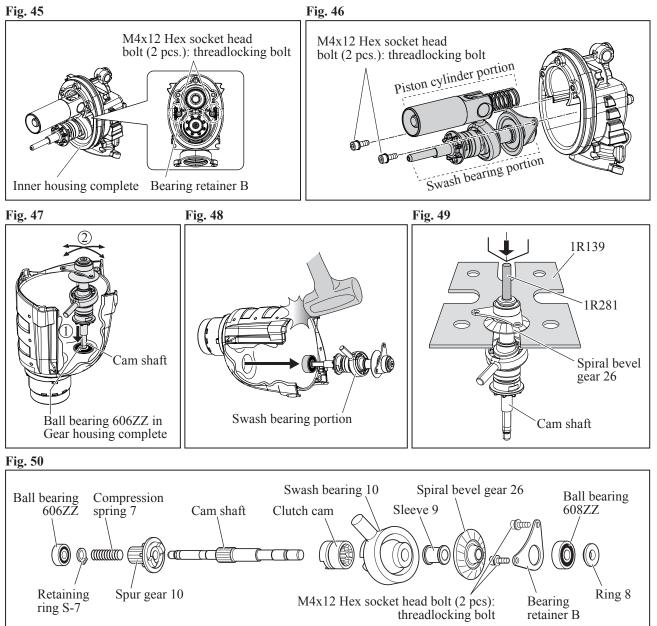
DISASSEMBLING

Note: This step can be done without removing Motor section.

- 1) Remove Gear housing complete as instructed in [3]-5.
- 2) Remove Inner support complete by loosening two M4x25 Hex socket head bolts using 1R170. (Fig. 44)
- 3) Remove two M4x12 Hex socket head bolts that is seated on Bearing retainer B on Inner support complete. (Fig. 45)
- 4) Remove Swash bearing 10 portion and Piston cylinder portion from Inner housing complete. (Fig. 46)
- 5) When Ball bearing 606ZZ is left in Gear housing complete after removing Swash bearing section, insert Cam shaft into the hole of Ball bearing 606ZZ and tilt Cam shaft back and forth (**Fig. 47**), then tap Gear housing complete with plastic hammer as drawn in **Fig. 48**. Ball bearing 606ZZ can now be removed.



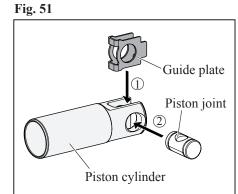
- 6) Put Spiral bevel gear 26 on a U-groove of 1R139 as shown in **Fig. 49**, then press down Cam shaft using 1R281 to loosen the press fit of Cam shaft to Spiral bevel gear 26, Ball bearing 608ZZ and Ring 8 at a time. (**Fig. 49**) Also Clutch cam, Swash bearing 10, Sleeve 9 and Bearing retainer B can be removed from Cam shaft in this step. (**Fig. 50**)
- 7) By removing Retaining ring S-7 from Cam shaft using 1R291, Compression spring 7 and Spur gear 10 can be removed from Cam shaft. (**Fig. 50**)



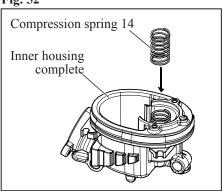
[3] DISASSEMBLY/ASSEMBLY[3]-8. Swash bearing 10, Gear section (cont.)

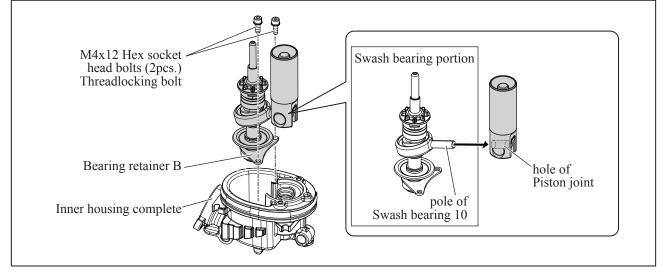
ASSEMBLING

- Note: Be sure to apply Makita grease RB No.00 and Molybdenum disulfide lubricant to the specific portions shown in Figs. 1, 2 and 3.
- 1) Onto Cam shaft, slide Swash bearing 10, Sleeve 9, Spiral bevel gear 26 in order, then press-fit them using 1R032, 1R033 and arbor press.
- 2) Slide Bearing retainer B onto Cam shaft in advance, then press-fit Ball bearing 608ZZ then Ring 8 onto the shaft; be careful not to fix Bearing retainer B between the bearing and Spiral bevel gear26.
- 3) Onto Cam shaft, slide Super gear 10 and Compression spring 7 in order, then secure them with Retaining ring S-7 using 1R291.
- 4) Mount Guide plate then Piston joint to Piston cylinder. (Fig. 51)
- 5) Fit Compression spring 14 over the boss of Inner housing complete. (Figs. 3 and 52)
- 6) Insert the pole of Swash bearing 10 through the hole of Piston joint, then mount Swash bearing portion into Inner housing complete. Secure Swash bearing portion by fixing Bearing retainer B to Inner housing complete with two M4x12 Hex socket head bolts. (Fig. 53) Note: Be sure to apply adhesive to the threads of the two M4x12 Hex socket head bolts.
- 7) Insert Change plate into the groove of Clutch cam, then secure Inner support complete with two M4x25 Hex socket head bolts. (Fig. 54)

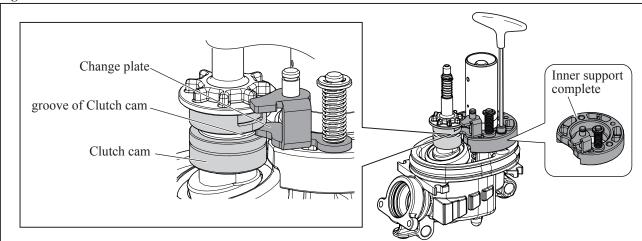








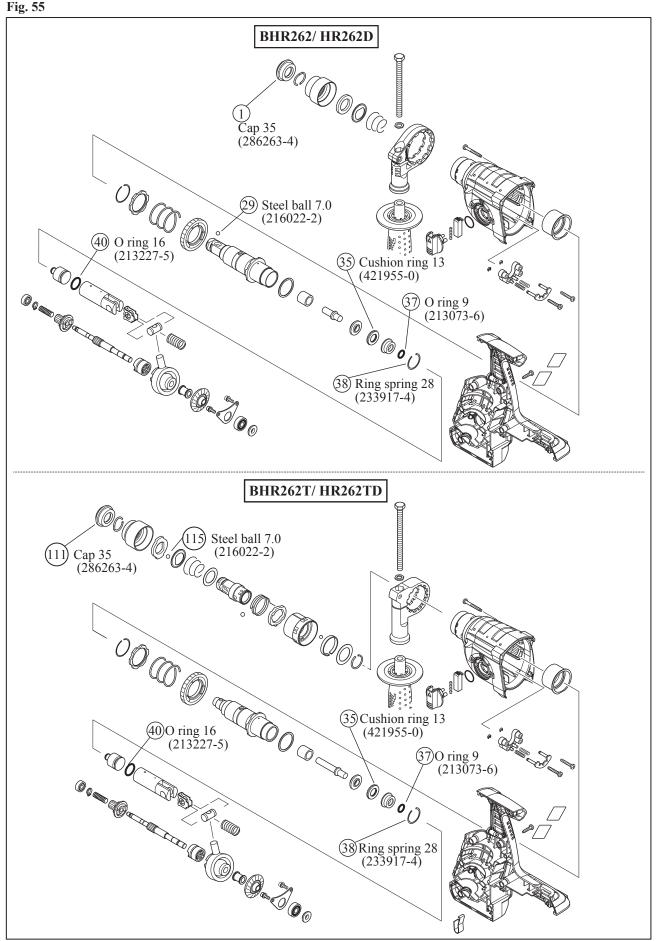




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[4] Maintenance program

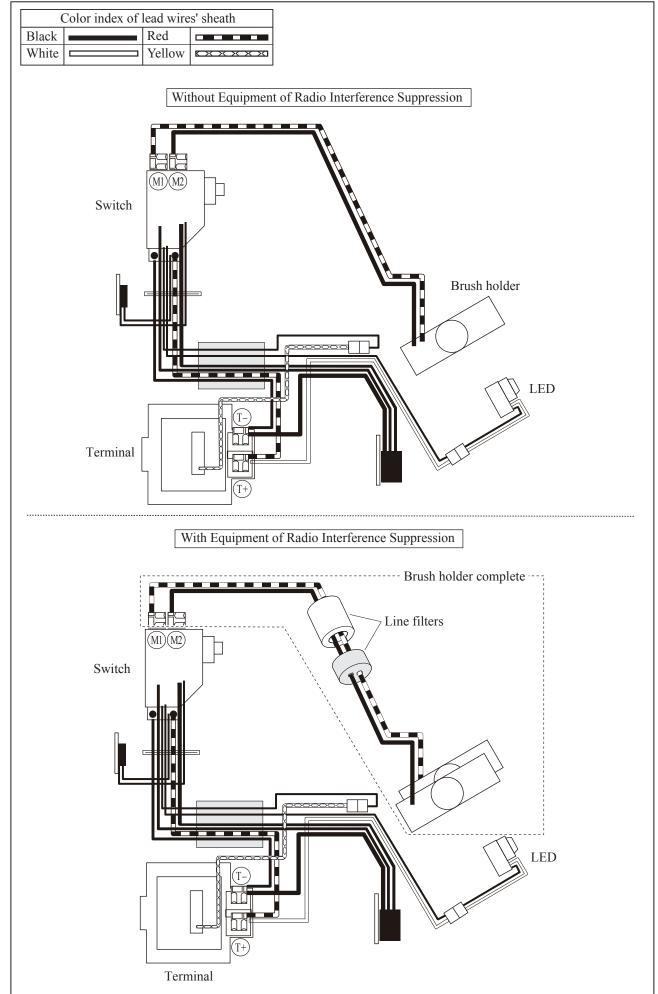
It is recommended to replace the following parts at the same time when replacing Carbon brushes. (Fig. 55) Note: Be sure to put Makita grease RB No. 00 and Molybdenum disulfide lubricant to the specific portions. Refer to Figs. 1, 2 and 3.



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Circuit diagram

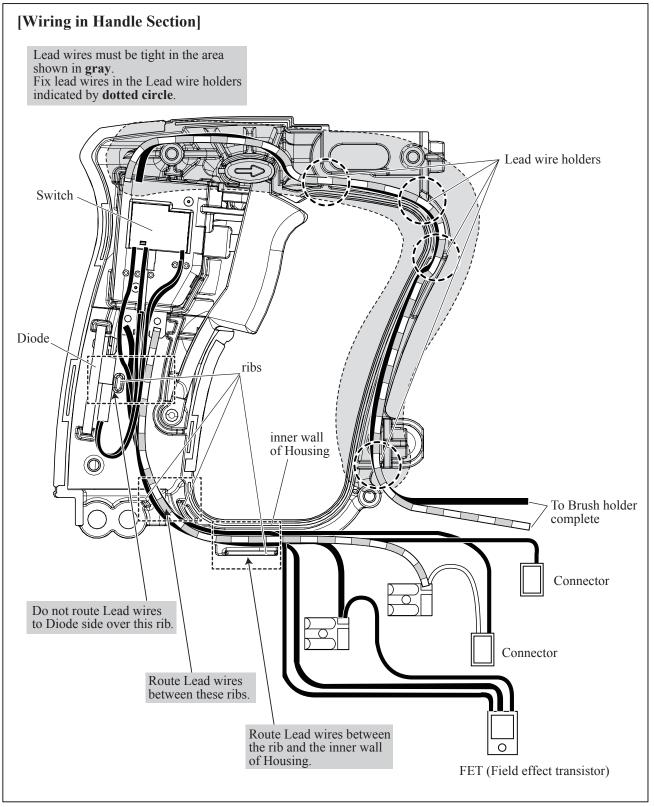
Fig. D-1



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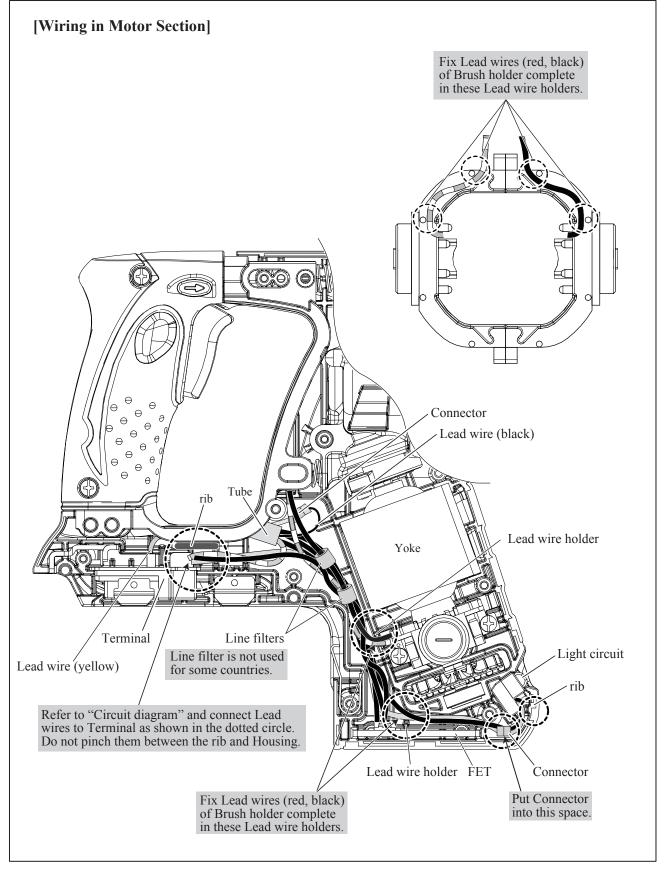
► Wiring diagram

Fig. D-2



► Wiring diagram





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