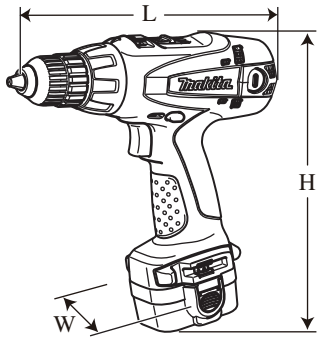
TECHNICAL INFORMATION

PRODUCT

Models No. ► 6207D-NEW
6317D-NEW, 6337D-NEW, 6347D-NEW

Description ► 9.6V Cordless Driver Drill 10mm (3/8")
12V, 14.4V, 18V Cordless Driver Drills 13mm (1/2")



CONCEPT AND MAIN APPLICATIONS

These four Cordless Driver Drills are redesigned with the same aesthetic design concept as 6261D series models. These four models are available in the following variations.

Model No.		Battery Type	Q'ty	Cover	Charger
10mm (3/8")	6207DWDE	9134 (Ni-MH, 9.6V/ 2.6Ah)	2	2	DC1414
	6207DWFE	9135 (Ni-MH, 9.6V/ 3.0Ah)	2	2	DC1414
13mm (1/2")	6317DWAE	1222 (Ni-Cd, 12V/ 2.0Ah)	2	2	DC1414
	6317DWDE	1234 (Ni-MH, 12V/ 2.6Ah)	2	2	DC1414
	6317DWFE	1235 (Ni-MH, 12V/ 3.0Ah)	2	2	DC1414
	6337DWAE	1422 (Ni-Cd, 14.4V/ 2.0Ah)	2	2	DC1414
	6337DWDE	1434 (Ni-MH, 14.4V/ 2.6Ah)	2	2	DC1414
	6337DWFE	1435 (Ni-MH, 14.4V/ 3.0Ah)	2	2	DC1414
	6347DWAE	1822 (Ni-Cd, 18V/ 2.0Ah)	2	2	DC1804
	6347DWDE	1834 (Ni-MH, 18V/ 2.6Ah)	2	2	DC1804
	6347DWFE	1835 (Ni-MH, 18V/3.0Ah)	2	2	DC1804

All models also include the accessories listed below in "Standard equipment".

Dimensions: mm (")				
10mm (3/8")		13mm (1/2")		
Model No.	6207D-NEW	6317D-NEW	6337D-NEW	6347D-NEW
Length (L)	235 *1 (9-1/4)	244 *1 (9-5/8)	244 *1 (9-5/8)	244 *1 (9-5/8)
	233 *2 (9-1/8)	241 *2 (9-1/2)	241 *2 (9-1/2)	241 *2 (9-1/2)
Width (W)	78 (3-1/16)	95 (3-3/4)	95 (3-3/4)	95 (3-3/4)
Height (H)	252 (9-7/8)	256 (10-1/8)	255 (10)	258 (10-1/8)

***1**: for USA, Canada, Mexico, Panama
***2**: for all countries except the four listed above

► Specification

Specification \ Model No.		10 mm	13 mm		
		6207D-NEW	**6317D-NEW**	**6337D-NEW**	**6347D-NEW**
Battery	Type of cell	Ni-cd/ Ni-MH	Ni-cd/ Ni-MH		
	Voltage: V	9.6	12	14.4	18
	Capacity: Ah	2.0/ 2.6/ 3.0	2.0/ 2.6/ 3.0		
	Charging time (approx.): min.	45/ 60/ 70 with DC1804	45/ 60/ 70 with DC1804		
Max output (W)		160	205	230	305
Chuck capacity: mm (")		1-10 (1/32-3/8)	1.5-13 (1/16-1/2)		
Type of keyless drill chuck		Dual sleeve	Dual sleeve		
Drilling capacity: mm (")	Steel	10 (3/8)	13 (1/2)		
	Wood	25.4 (1)	25.4 (1)	32 (1-1/4)	38 (1-1/2)
No load speed: rpm = min -1	High	0 - 1,400	0 - 1,400		0 - 1,600
	Low	0 - 450	0 - 450		0 - 500
Lock torque: N.m (in.lbs)		———	35 (310)	40 (350)	45 (400)
Max. fastening torque: N.m (in.lbs)	Hard joint	50 (440)	60 (530)	65 (580)	80 (710)
	Soft joint	20 (180)	25 (220)	30 (270)	35 (310)
Torque settings		16 stages (+ drill mode)	16 stages (+ drill mode)		
Electric brake		Yes	Yes		
LED job light		No	No		
Belt clip		No	No		
Externally accessible carbon brush		Yes	Yes		
Rubberized soft grip		Yes	Yes		
Net weight*: kg (lbs)		1.8 (4.0)	2.0 (4.4)	2.1 (4.6)	2.3 (5.1)

*Weight according to EPTA-Procedure 01/2003, including battery

► Standard equipment

+- bit 2-45, Plastic carrying case

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

Optional accessories

Model No.	Battery	Charger
6207D-NEW	9120, 9122, 9134, 9135, 9135A, PA09	DC1414, DC1439, DC1804, DC1822
6317D-NEW	1220, 1222, 1234, 1235, 1235A, PA12	
6337D-NEW	1420, 1422, 1434, 1435, PA14	
6347D-NEW	1822, 1834,1835, PA18	DC1804, DC1822

< 1 > Disassembling of drill chuck See Fig. 1.

For replacing gear assembly, drill chuck has to be disassembled.

Take the following steps.

1. Firmly hold No.1R139 "Drill chuck extractor" with vise. And lock spindle with the drill chuck extractor.
2. Open the jaws of drill chuck fully and take off flat head screw M6 x 22 by turning clockwise.
3. Disassemble drill chuck with hex wrench inserted into drill chuck by turning the hex wrench anti-clockwise.

If drill chuck is damaged, firmly hold the drill chuck with vise and turn spindle with wrench anti-clockwise as illustrated in fig. 1A.

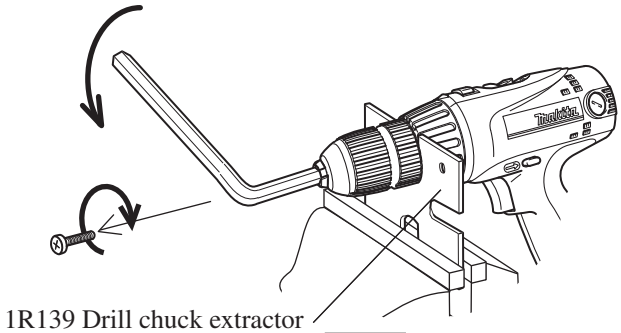


Fig. 1

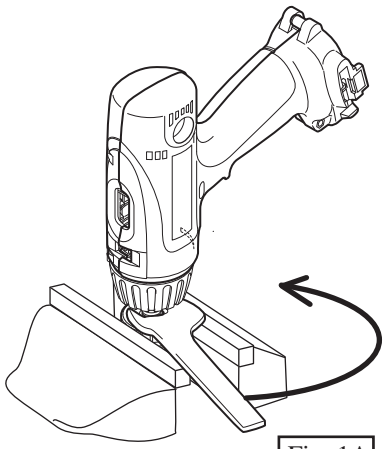


Fig. 1A

< Note >

For replacing other than gear assembly, it is not necessary to disassemble drill chuck.

< 2 > Disassembling housing See Fig. 2.

1. Take off brush holder caps and carbon brushes.
2. Slide mode change lever to the drill mode side.
3. Unscrew ten PT3x16 Tapping screws.

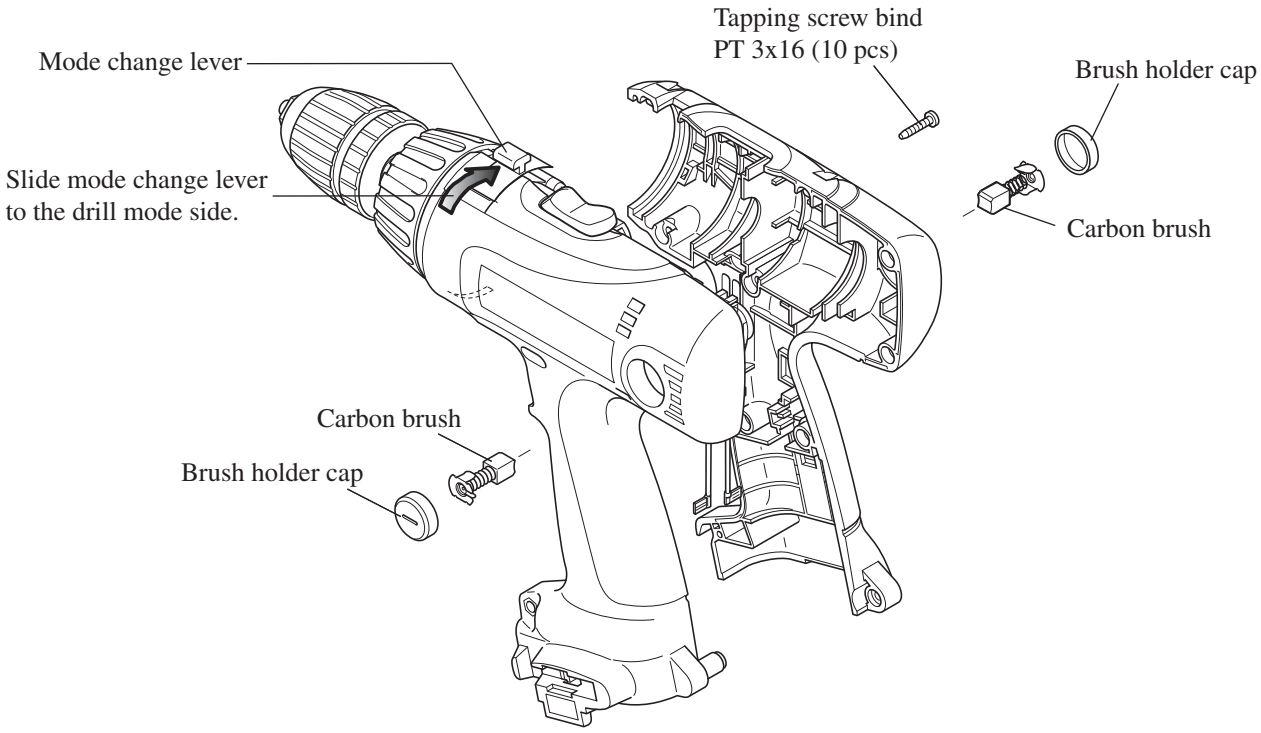


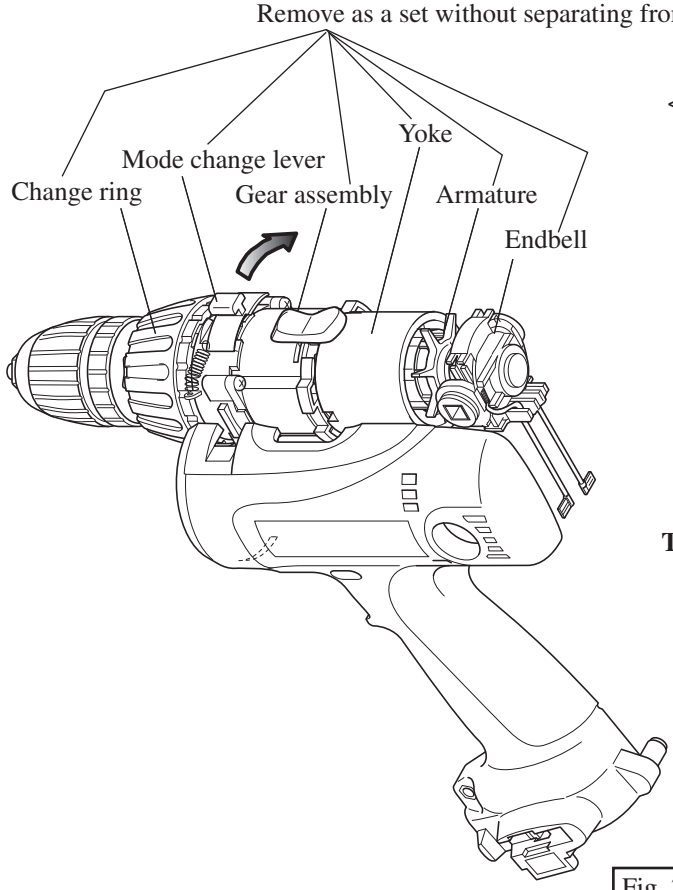
Fig. 2

► Repair

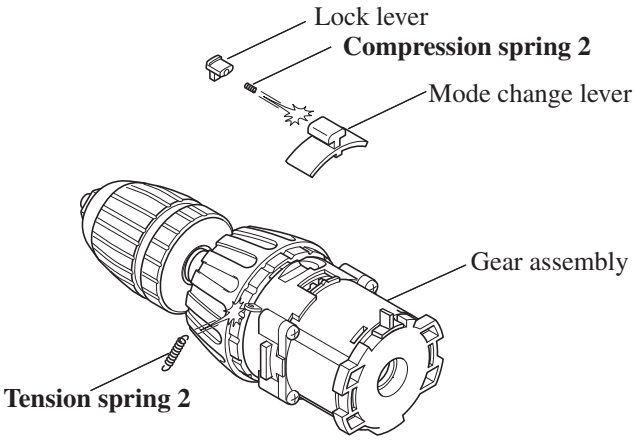
< 3 > Disassembling gear assembly and motor section See Fig. 3.

Lifting up mode change lever, separated change ring, gear assembly, yoke, armature and endbell from housing as a set.

Remove as a set without separating from each other.



< Note in disassembling >



Remove so careful that the following springs do not spring out.

Compression spring 2: installed in mode change lever.

Tension spring 2: fixing mode change lever on gear assembly

Fig. 3

< 4 > Assembling leaf spring See Fig. 5.

Assemble leaf spring to housing L as illustrated in Fig. 4.

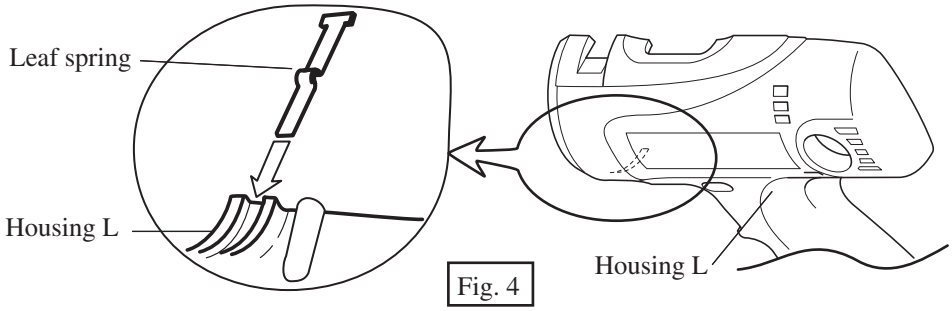


Fig. 4

< 5 > Assembling change ring

When separating gear assembly from housing, change ring can easily slip off from gear assembly.

Re-assemble change ring to gear assembly as follows.

1. Align the widest bulge of spring holder to the bulge of gear assembly by turning spring holder.
2. Assemble change ring by aligning the bulge of change ring's edge to the portion of gear assembly marked with circle by the bulge of gear assembly.

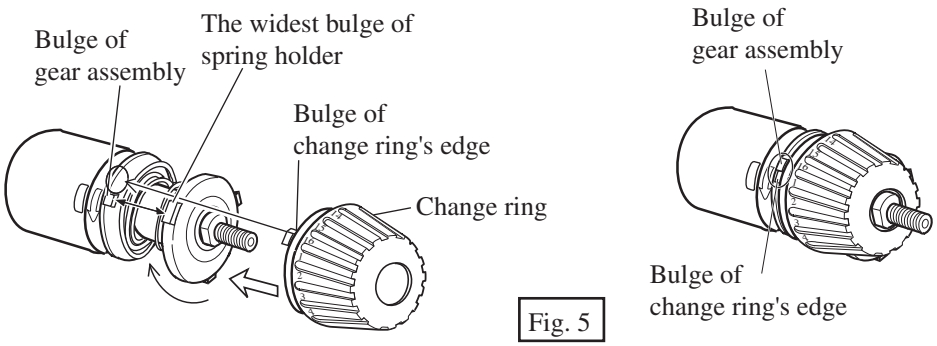


Fig. 5

< 6 > Assembling speed change lever

1. Before assembling, make sure that 2 compression springs are installed in the speed change lever. See fig. 6.
2. Assemble speed change lever to the boss of gear assembly as illustrated in Fig. 6A.
3. After assembling, slide the speed change lever to the change ring side or yoke assembling side and keep its slid position.

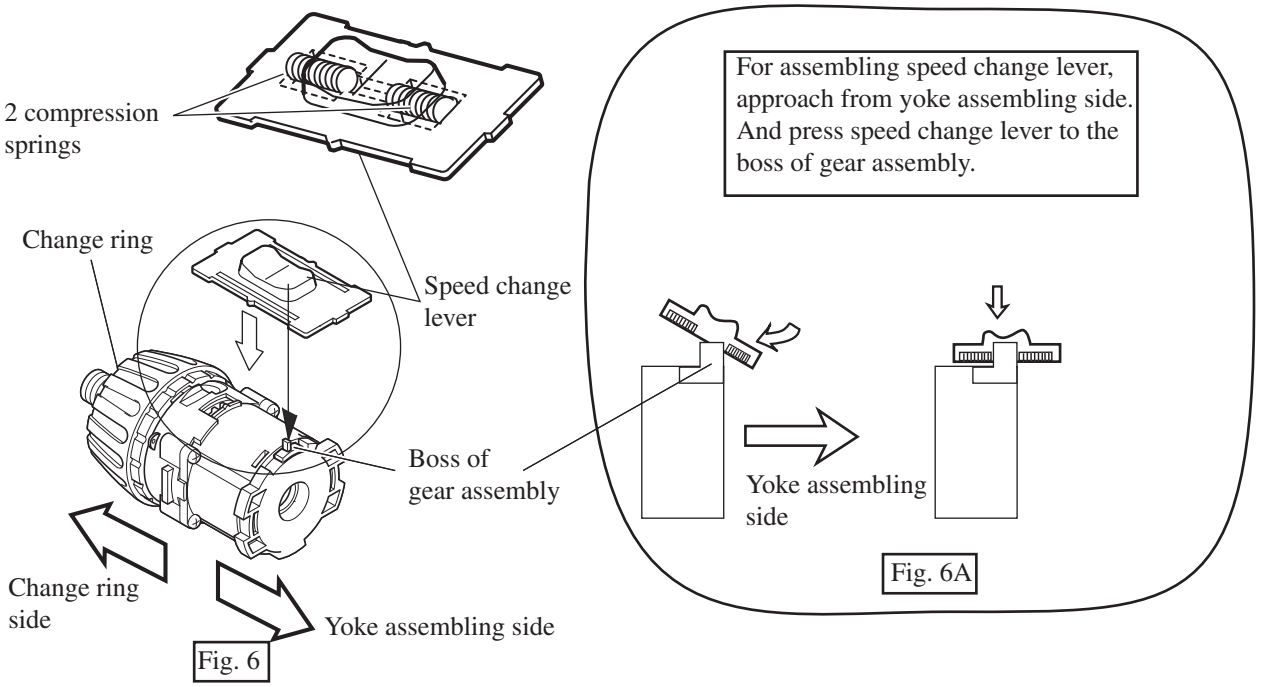


Fig. 6

Fig. 6A

< 7 > Assembling mode change lever and housing

1. Hitch the hook of tension spring 2 to gear assembly and another hook to mode change lever as illustrated in Fig. 7.
2. Assemble mode change lever to gear assembly by inserting the boss of mode change lever into the groove of gear assembly as illustrated in Fig. 7.
3. Assemble motor section (yoke, armature and endbell) to gear assembly. Assemble them to housing L as illustrated in Fig. 7A.

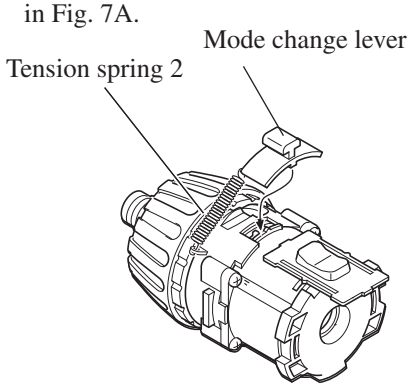


Fig. 7

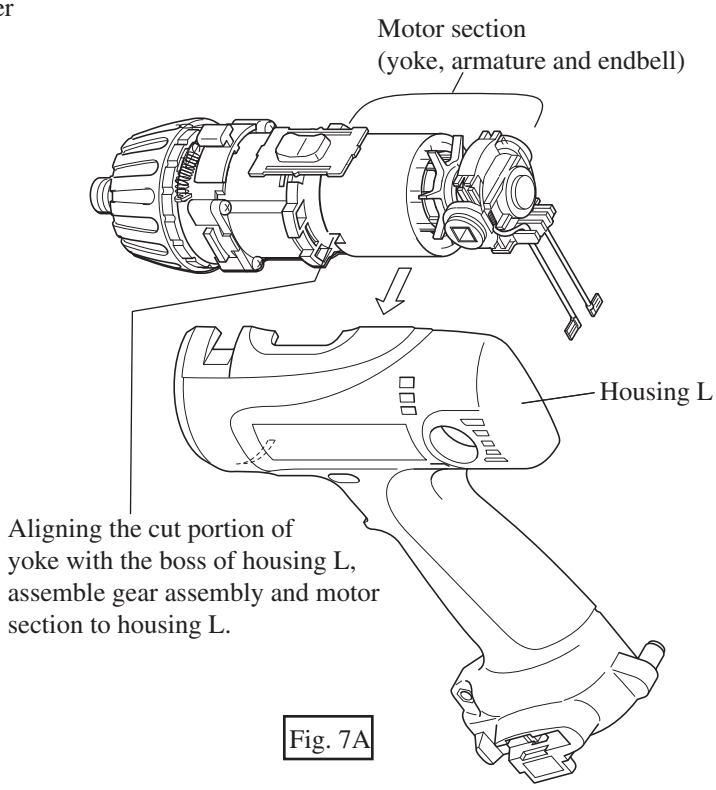


Fig. 7A

4. Assemble compression spring 2 to lock lever as illustrated in Fig. 7B. Pulling mode change lever to the another side of housing L along the surface of gear assembly, insert the lock lever into mode change lever as illustrated in Fig 7C.

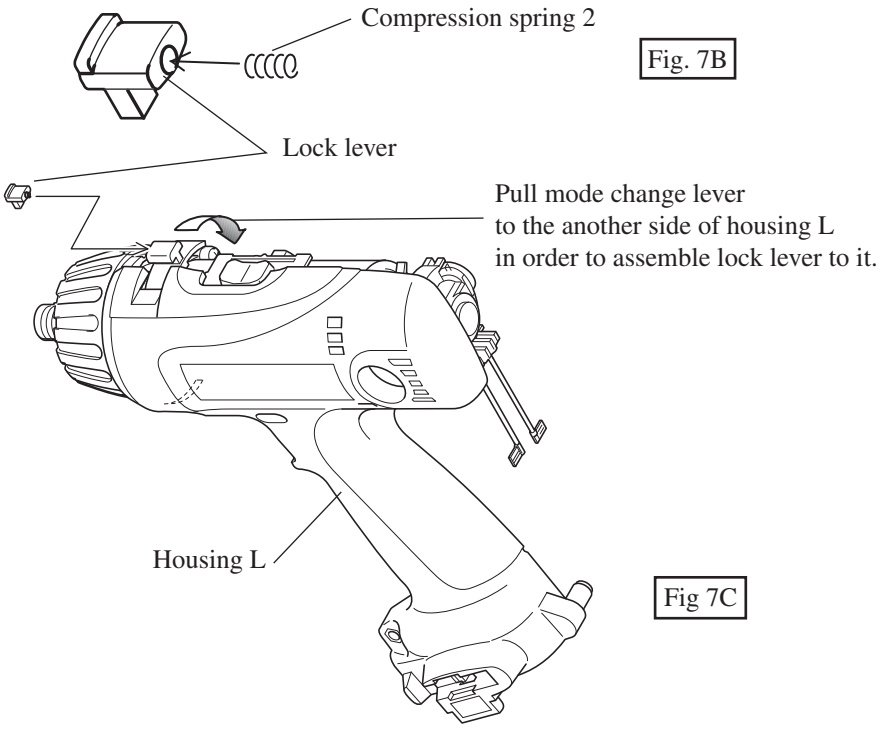


Fig. 7B

Fig 7C

5. Pushing lock lever, slide mode change lever to the another side of housing L, and assemble housing R to housing L by fastening screws as illustrated in Fig 7D.

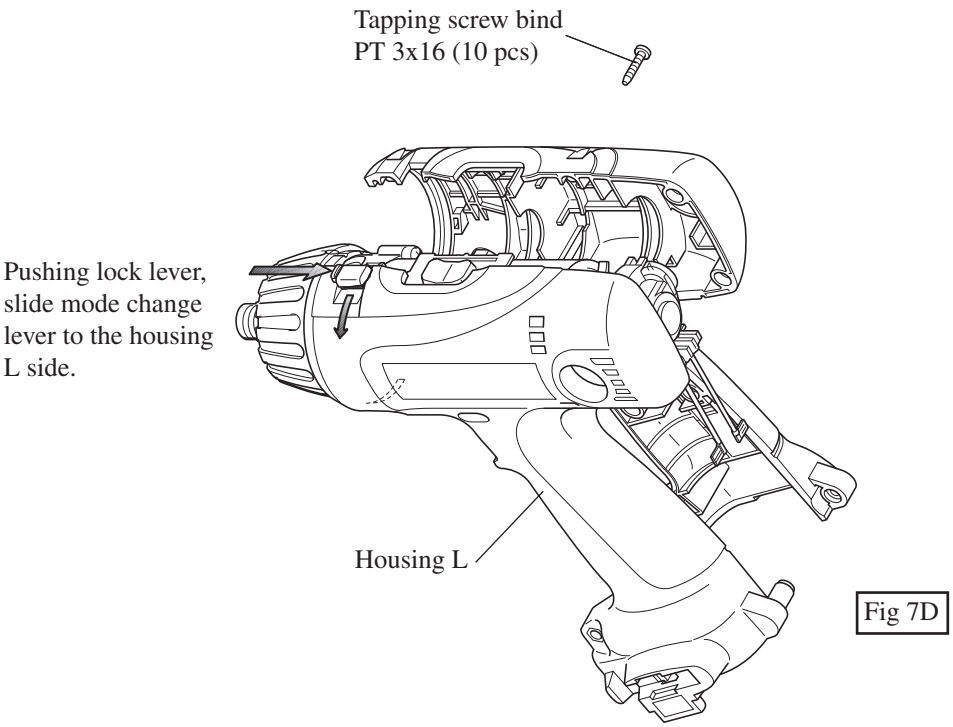


Fig 7D

Repair

< 8 > Assembling drill chuck See Fig. 8.

1. Firmly hold No.1R139 "Drill chuck extractor" with vise. And lock spindle with the drill chuck extractor.
2. Hold No.1R298 "Hex socket" with the jaws of drill chuck firmly and turn the hex socket with No.1R223 "Torque wrench" clock wise.
   <Note> Pre-setting the fastening torque for torque wrench : 49 N.m - 58.8 N.m
3. Fasten flat head screw M6 x 22 by turning it anti-clockwise.

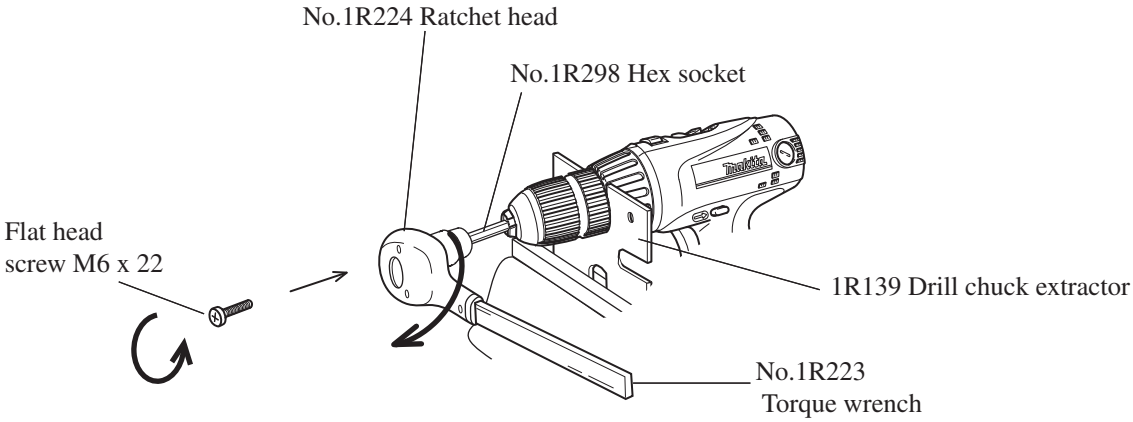
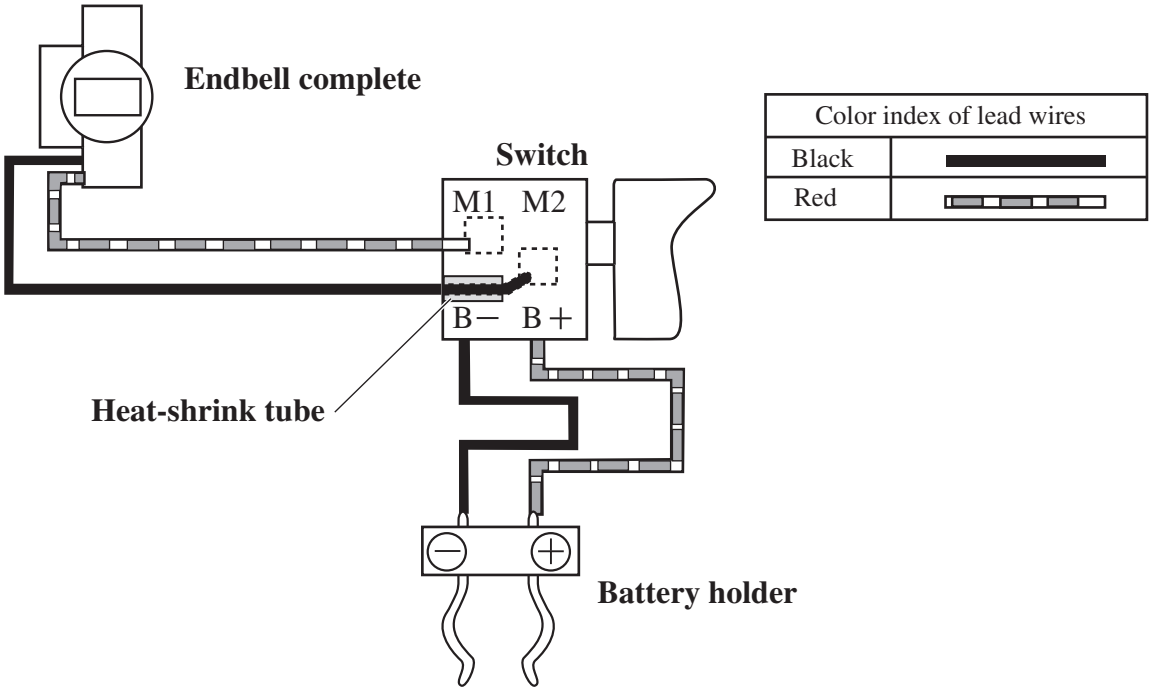


Fig. 8

Circuit diagram



Wiring diagram