ECHNICAL INFORMATION



Model No. ► BHP458 (LXPH03*1)

Description > 18V Cordless Hammer Driver Drill

*1 Model number for North and Central American countries

ONCEPT AND MAIN APPLICATIONS

Model BHP458 (LXPH03*1) is a successor model of BHP454, featuring:

- Extremely compact tool size with an overall length of 225mm (8-7/8") the shortest in its class
- High power and productivity achieved with new DC motor (FD31-30)
- Enhanced dust and drip-proof performance to ensure reliable operation even under bad weather.
- Equipped with Battery fuel gauge*2 for increased maneuverability.
- *2 Not available for model LXFD03.

Note: This product is not compatible with 18V-1.3Ah battery BL1815.

This product is available in the following variations.

•			_				
Model No.	Batt Type	ery Quantity	Battery	Charger	Plastic carrying case	Systainer	Housing color
BHP458Z	No	No	No	No	No	No	•••••
BHP458RFE	BL1830	2	1	DC18RC	Yes	No	
BHP458RFE3	BL1830	3	2	DC18RC	Yes	No	Makita
BHP458ZX	No	No	No	No	No	Yes	blue
BHP458RFX	BL1830	2	1	DC18RC	No	Yes	
LXPH03Z*1	No	No	No	No	No	No	
LXPH03*1	BL1830	2	1	DC18RA	Yes	No	

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Dimensions: mm (")		
Length (L)	225 (8-7/8)	
Width (W)	79 (3-1/8)	
Height (H)	259 (10-1/4)	

Specification

	Voltage: V		18	
	Capacity: Ah		3.0	
Battery	Energy cap	ogitar Wh	54	
	Cell		Liion	
	Charging ti	me (approx.): min.	22 with DC18RC (DC18RA*3)	
No load	speed:	High	0 - 2,000	
	min-1=rpm	Low	0 - 400	
Impacts	per minute:	High	0 - 30,000	
	min-1=ipm	Low	0 - 6,000	
Capacity	of drill chu	ck: mm (")	1.5 (1/16) - 13 (1/2)	
		Steel	13 (1/2)	
Capacity	/: mm (")	Wood	76 (3)	
		Masonry	16 (5/8)	
Torque s			21 stage + drill mode	
Clutch to	orque setting	: N.m (in.lbs)	1.0 - 10.0 (9 - 89)	
Max loc	Max lock torque: N.m (in.lbs)		84 (750)	
Max fas	tening	Soft joint	58 (520)	
	N.m (in.lbs)	Hard joint	91 (810)	
Electric brake			Yes	
Mechanical speed control		ntrol	Yes (2 speeds)	
Variable speed control		ol	Yes	
Reversing switch			Yes	
LED job light			Yes	
Weight according to EPTA-Procedure 01/2003*4: kg (lbs)		2003*4: kg (lbs)	2.3 (5.1)	

*3 for North and Central American countries

*4 with Battery BL1830

Standard equipment

+ - bit 2-45 2	Belt clip 1	Depth rod 1
Bit holder 1	Grip assembly 1	-

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

Optional accessories

•				
Fast charger DC18RA	Charger DC18SD	Battery protectors	Driver bits	
(for US, Canada, Guam, Panama, Mexico and Colombia)		Drill bits for wood		
	Automotive charger DC18SE			
(for all countries except the countries above) Download from Www.Somanuals	Battery BL1830	Drill bits for masonry		
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- Repair

CAUTION: Repair the machine in accordance with "Instruction manual" or "Safety instructions". [1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for		
1R359	Drill chuck removing tool	(Use this tool if Drill chuck cannot be removed by the method of described in "[3]-1 Drill chuck disassembling".)		
	Hex wrench 10	removing/ mounting Drill chuck		

[2] LUBRICATION

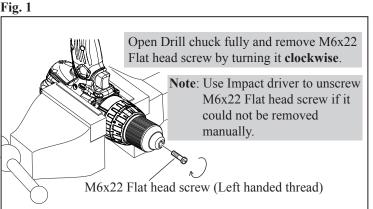
It is not required to lubricate the gear section because the portion is replaced as a factory-assembled gear unit.

[3] DISASSEMBLY/ASSEMBLY

[3] -1. Drill Chuck

DISASSEMBLING

- (1) Remove M6x22 Flat head screw as drawn in Fig. 1.
- (2) Preset the machine as drawn in Fig. 2. And set Hex wrench 10 to Vise as drawn in Fig. 3.
- (3) Gripping Hex wrench 10 with Drill chuck firmly, remove Drill chuck as drawn in Fig. 4.

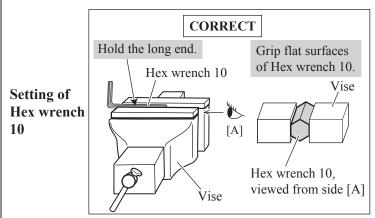


Set Change ring to Drill mode.
Change ring Set Speed change lever to Low speed mode designated with 1.

F/R change lever to Reverse (counter-clockwise) rotation.

Attach Battery.

Fig. 3



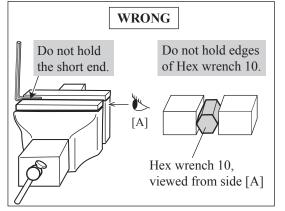
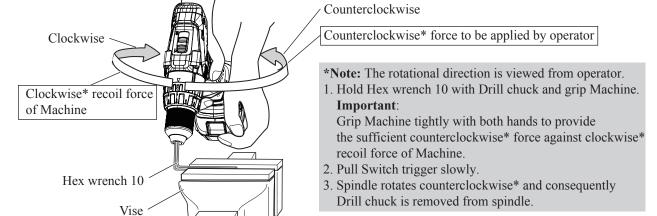


Fig. 4



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- Repair

[3] DISASSEMBLY/ASSEMBLY

[3] -1. Drill Chuck (cont.)

ASSEMBLING

- (1) Set the machine. (Fig. 5 and 6)
- (2) Set Hex wrench 10 to vise and described in Fig. 3.
- (3) Set Drill chuck in place. (Fig. 7)

Fig. 5

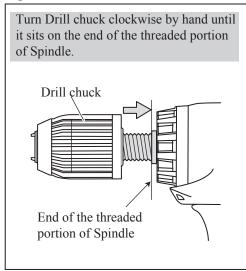


Fig. 6

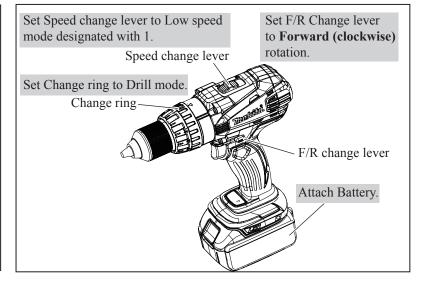
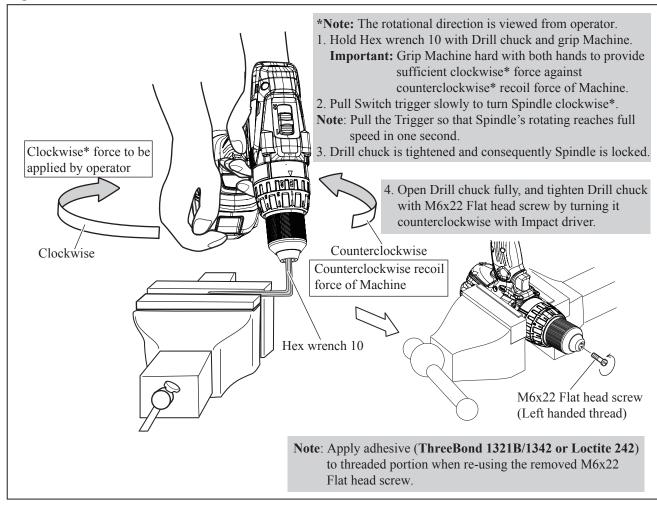


Fig. 7



- [3] DISASSEMBLY/ASSEMBLY
- [3] -2. Gear Assembly, Motor Section

DISASSEMBLING

After removing Drill chuck (Re: Figs. 1, 2, 3 and 4), disassemble Motor section and Gear assembly. (Figs. 8 and 9)



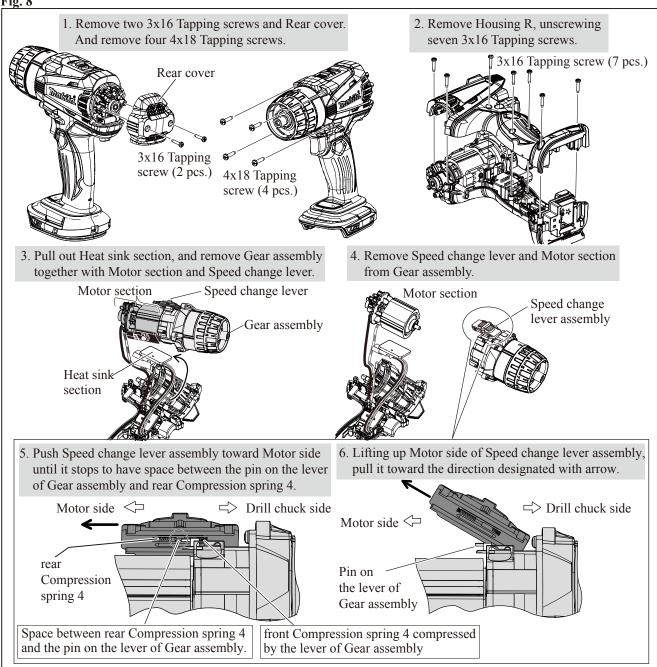
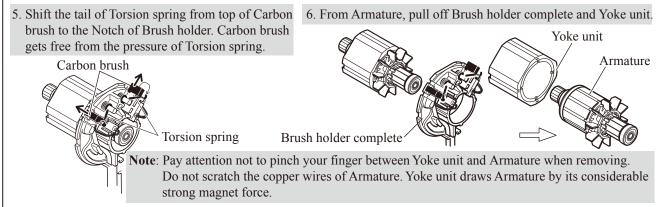


Fig. 9



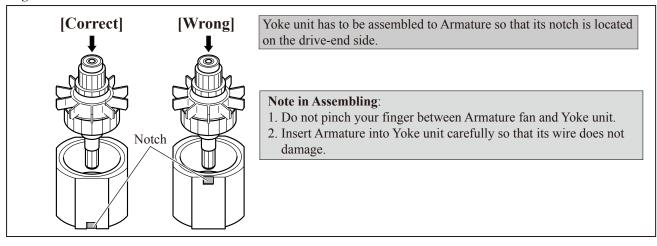
[3] DISASSEMBLY/ASSEMBLY

[3] -2. Gear Assembly, Motor Section (cont.)

ASSEMBLING

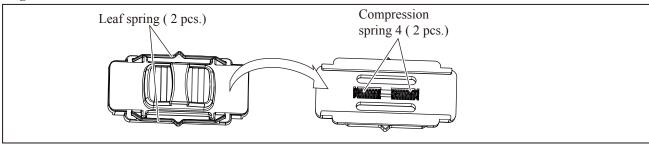
(1) Assemble Motor section taking the reverse step of Disassembling. Refer to **Fig. 9**. Insert Armature into Yoke unit as drawn in **Fig. 10**.

Fig. 10



- (2) Assemble Brush holder complete to Commutator end of Armature. Refer to the drawings in **Fig. 9**. Carbon brushes in Brush holder complete have to be still left from Armature's commutator in this step.
- (3) Fasten Heat sink with Pan head screw to Yoke unit. And insert the Motor section into Gear assembly, while engaging Armature's gear with the Planet gears in Gear assembly. Refer to the **center right** drawing in **Fig. 8**.
- (4) Before mounting Speed change lever assembly, make sure that Lead springs and Compression springs are assembled to Speed change lever assembly. See **Fig. 11**.

Fig. 11



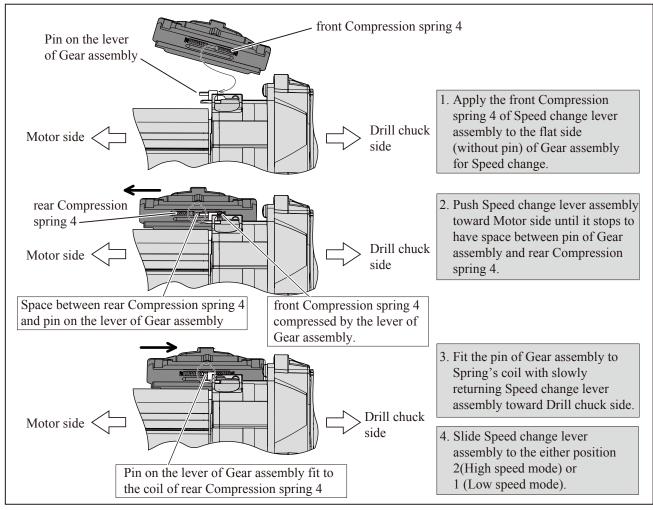
[3] DISASSEMBLY/ASSEMBLY

[3] -2. Gear Assembly, Motor Section

ASSEMBLING

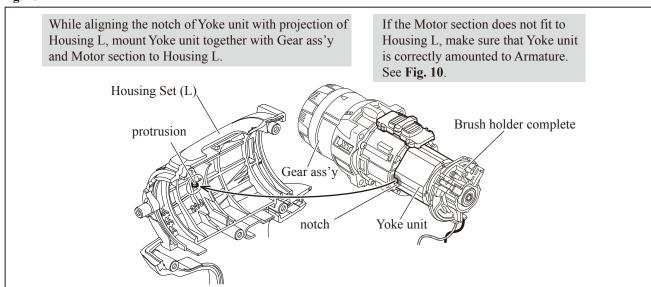
(5) Assemble Speed change lever assembly as drawn in Fig. 12.

Fig. 12



(6) Assemble Motor section and Gear assembly as illustrated in Figs. 13 and 14.

Fig. 13

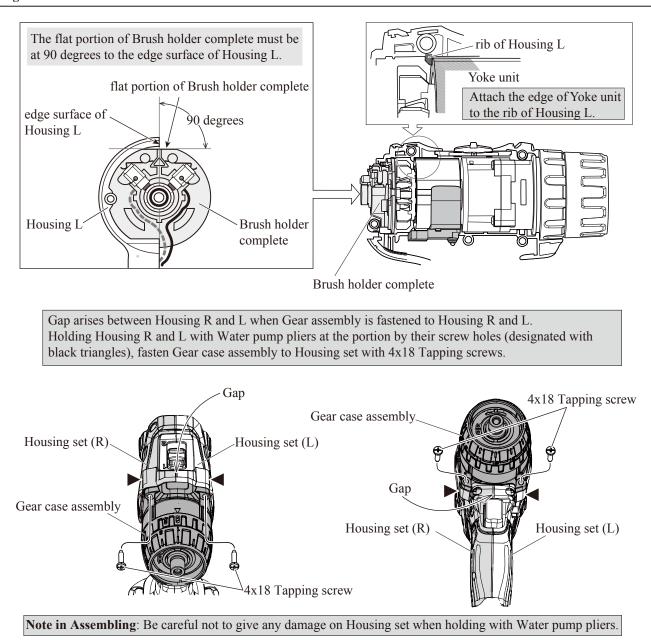


- [3] DISASSEMBLY/ASSEMBLY
- [3] -2. Gear Assembly, Motor Section (cont.)

ASSEMBLING

(7) Make sure Brush holder complete and Yoke unit are precisely mounted to Housing R. See **upper** drawing in **Fig. 14**. And then, mount Housing R to Housing L as drawn in **Fig. 14**.

Fig. 14



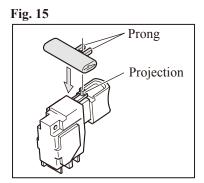
- (8) Fasten Housing R to Housing L with seven 3x16 Tapping screws. Refer to the **upper right** drawing in **Fig. 8**.
- (9) Contact Carbon brush with Armature's commutator, putting Torsion spring on the Carbon brush. Refer to the **left** drawing in **Fig. 9.**

[3] DISASSEMBLY/ASSEMBLY

[3] -3. F/R Change Lever

ASSEMBLING

Put the projection on Switch between the prongs of F/R change lever. (Fig. 15)

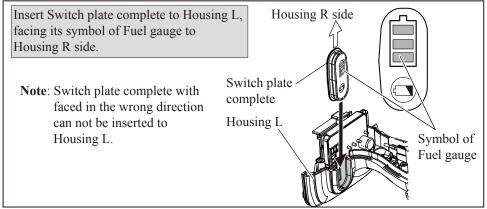


[3] -4. Switch plate complete

ASSEMBLING

Set Switch plate complete in place. (Fig. 16)



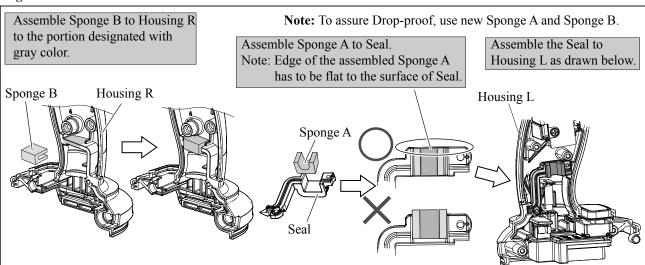


[3] -5. Parts related to Drip-proof structure

ASSEMBLING

Assemble Sponge B to Housing L. And assemble Seal and Sponge A to Housing L as drawn in Fig. 17.

Fig. 17



[3]-6. **Cushion**

ASSEMBLING

Be sure to install Cushion into Housing set (L) as drawn in Fig. 18R. Note: Fig. 18F is the wrong installation. Pay attention to the direction.

Fig. 18R

[Correct]

Housing set (L)

Cushion

[Wrong]

Cushion

Fig. 18F

Housing set (L)

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Circuit diagram

Fig. D-1

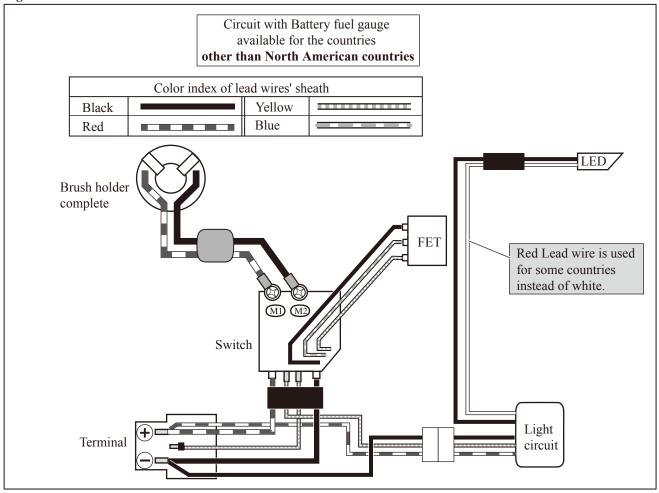


Fig. D-2

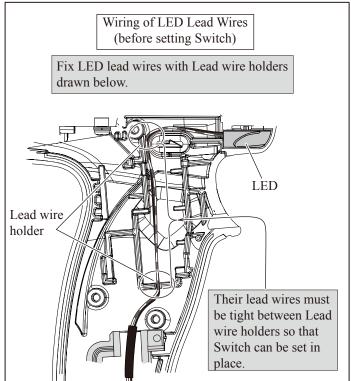


Fig. D-3

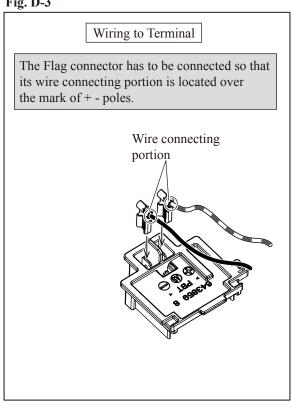


Fig. D-4

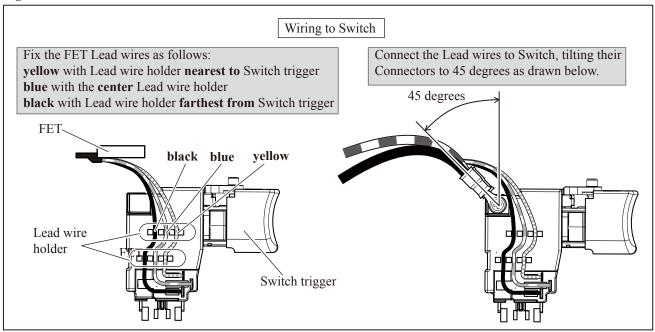
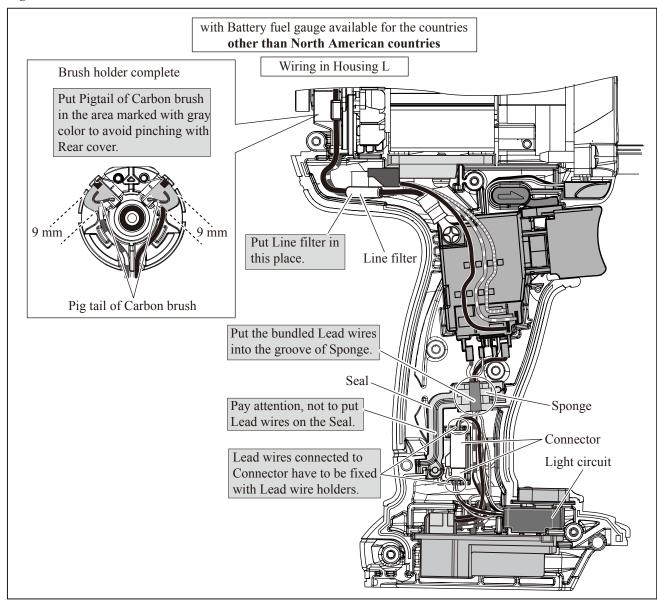


Fig. D-5



Circuit diagram

Fig. D-1A

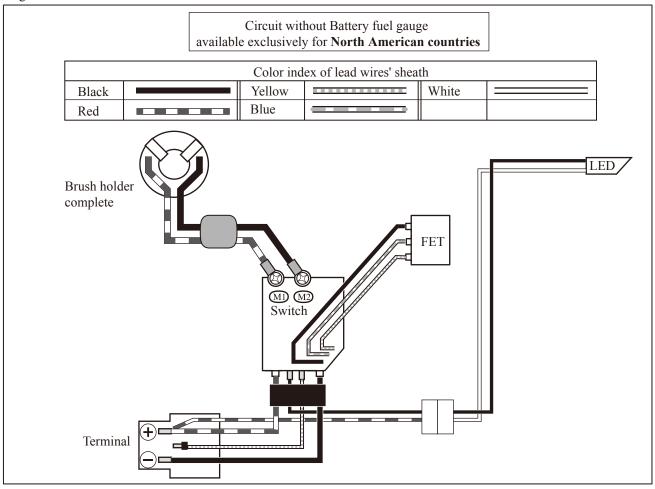
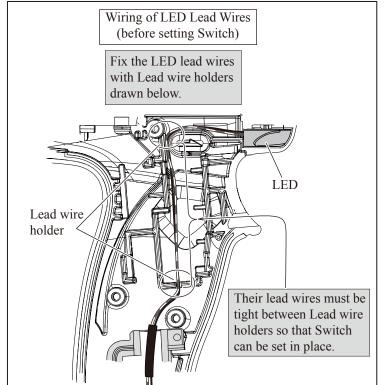


Fig. D-2A



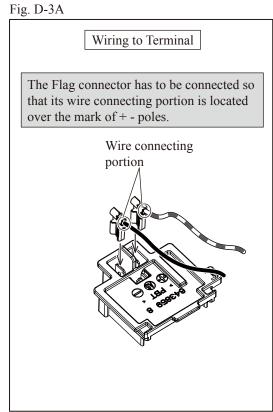


Fig. D-4A

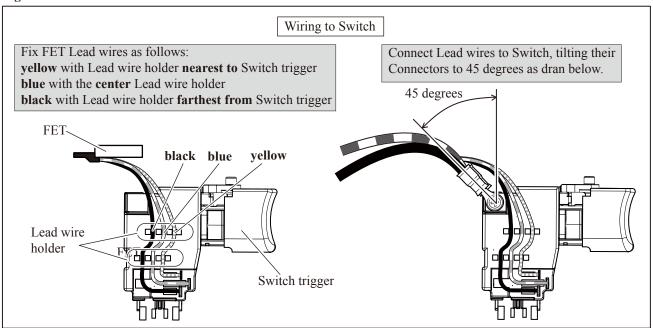
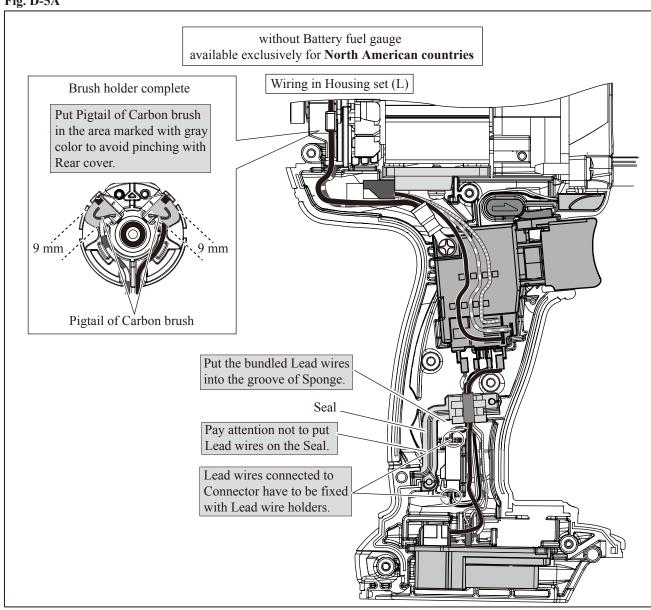


Fig. D-5A



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