ECHNICAL INFORMATION



Models No. ► TD0101, TD0101F

Description ► Impact Driver

CONCEPT AND MAIN APPLICATIONS

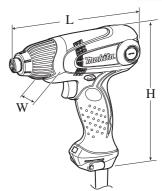
Models TD0101 and TD0101F are cost-competitive 100N.m-class impact driver developed as the entry model of Makita impact driver series.

Its main features are:

- Compact design with an overall length of 184mm (7-1/4")
- Lightweight at only 0.99kg (2.2lbs)

The only difference between TD0101 and TD0101F is:

TD0101: Without LED job light TD0101F: With LED job light



Dimensions: mm (")		
TD0101, TD0101F		
Length (L)	184 (7-1/4)	
Width (W)	67 (2-5/8)	
Height (H)	192 (7-9/16)	

► Specification

Voltage (V) Current (A)	G (A)	C d (II)	Continuous Rating (W)		Max. Output (W)
	Cycle (Hz)	Input	Output		
110	2.2	50/60	230	90	140
120	1.7	50/60		90	140
220	1.1	50/60	230	90	140
230	1.0	50/60	230	90	140
240	1.0	50/60	230	90	140

Specifications Model		TD0101/TD0101F	
No load speed: min-1 = rpm		0 - 3,600	
Impacts per r	nin.: min-1=ipm	0 - 3,200	
Driving shan	k: mm (")	6.35 (1/4) Hex	
	Machine screw	M4 - M8 (5/32 - 5/16")	
Conscition	Standard bolt	M5 - M14 (3/16 - 9/16")	
Capacities	High tensile bolt	M5 - M10 (3/16 - 3/8")	
	Coarse thread screw	22 - 90mm (7/8 - 3-1/2")	
Max. fastening torque*: N.m [kgf.cm] (in.lbs)		100 [1,020] (885)	
Electric brake		No	
Variable speed control by trigger		Yes	
Reverse switch		Yes	
LED job light		No/ Yes	
Protection against electric shock		Double insulation	
Power supply cord: m (ft)		Australia, New Zealand, Brazil, Chile: 2.0 (6.6) Other countries: 2.5 (8.2)	
Net weight: kg (lbs)		0.99 (2.2)	
Weight according EPTA-Procedure 01/2003: kg		0.99	

^{*}torque at 3 seconds after seating when fastening M12 high tensile bolt

► Standard equipment

Phillips bit 1 pc

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

Optional accessories

Phillips bits, Square bits, Socket bits, Drill chucks, Hex shank auger bits, Bit piece, Adjustable locator

P 1/14

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

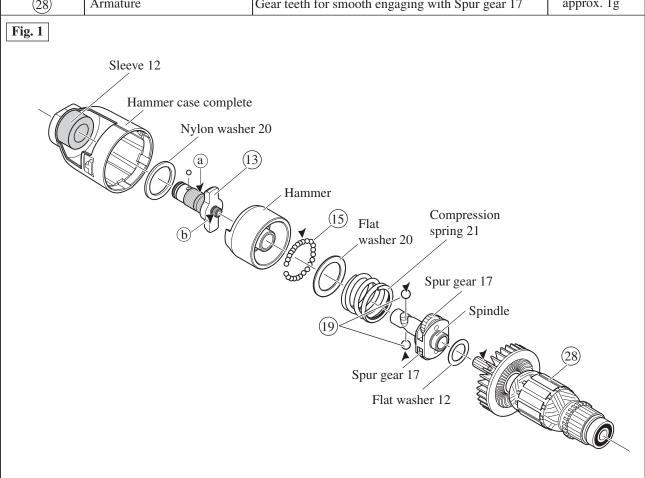
[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for	
1R041	Vise plate	Disassembling Hammer case complete	
1R045	Gear Extractor (large)	Disassembling Hammer	
1R346	Center attachment for 1R045	Disassemoning Hammer	
1R223	Torque wrench shaft 20-90N.m	Disassembling Hammer case complete	
1R224	Ratchet head 12.7 for 1R223		
1R232	Pipe 30	Supporting jig when disassembling Bit sleeve	
1R288	Screwdriver magnetizer	Magnetizing Screwdriver for removing Steel balls	
1R291	Retaining ring S and R pliers	Disassembling / Assembling Ring spring 10	
134844-7	Socket 27-50	Disassembling Hammer case complete	

[2] LUBRICATIONS

Apply Makita grease FA.No.2 to the following portions designated with the black triangle to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Amount
(13)	Anvil	a Drum portion where Sleeve 12 contacts	a little
Allv		ⓑ Small drum portion which is inserted into Spindle	
(15)	Steel ball 3 (24 pcs.)	whole portion	
19)	Steel ball 4.8 (2 pcs.)	whole portion	
28)	Armature	Gear teeth for smooth engaging with Spur gear 17 approx.	



[3] DISASSEMBLY/ASSEMBLY

[3]-1. Hammer Case Section

DISASSEMBLING

(1) Remove Hammer case section from the machine as illustrated in Figs. 2, 3.

Fig. 2

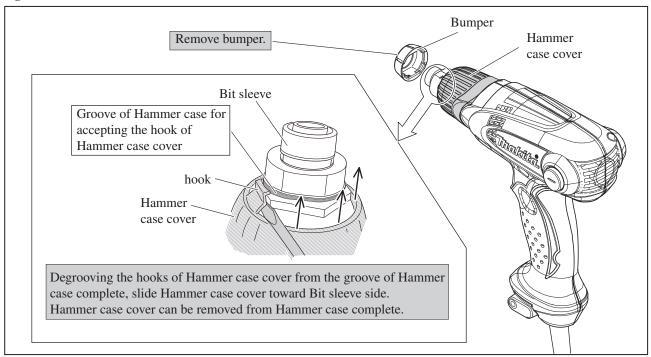
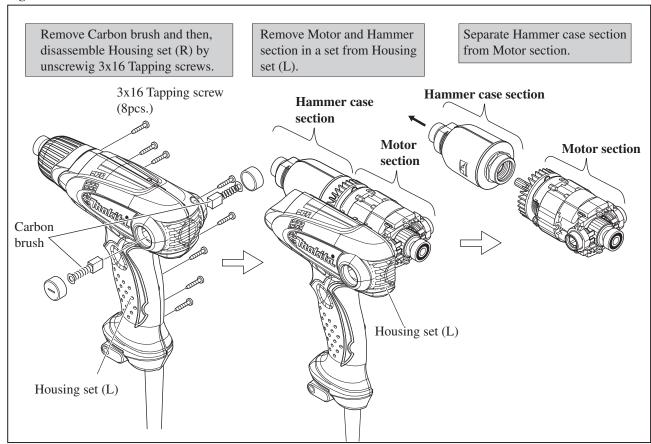


Fig. 3



- Repair

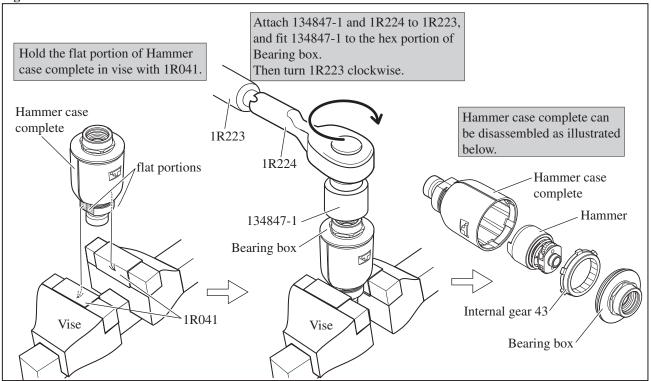
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Hammer Case Complete

DISASSEMBLING

(2) The removed Hammer case section is disassembled as illustrated in Fig. 4.

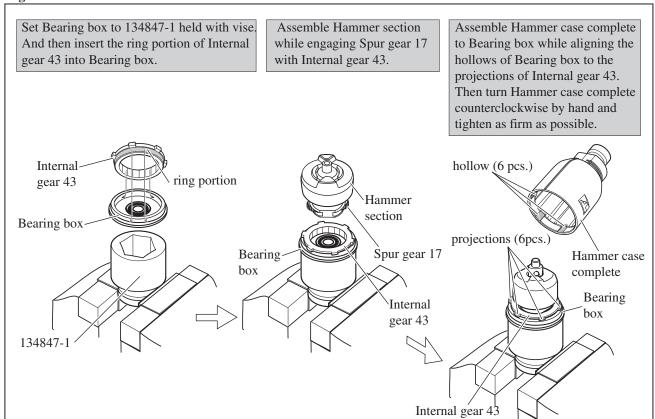
Fig. 4



ASSEMBLING

(1) Use 134847-1 as a supporting jig for Bearing box and assemble Hammer case complete as illustrated in Fig. 5.

Fig. 5



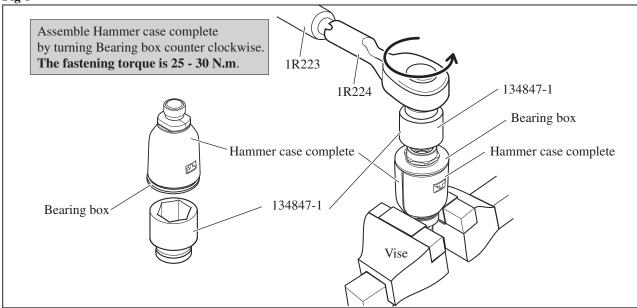
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Hammer Case Complete

ASSEMBLING

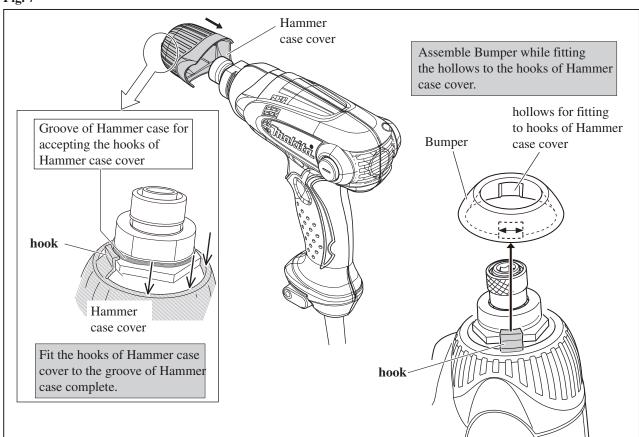
(2) Set the assembled Hammer case complete in the same position as disassembling. And assemble as illustrated in **Fig 6.**

Fig 6



- (3) Join Motor section with Hammer case complete. And assemble them to Housing set (L). Refer to Fig. 3.
- (4) Assemble Brush holder and Carbon brush. And then, assemble Housing set (R). Refer to Fig. 3.
- (5) Assemble Hammer case cover and Bumper as illustrated in Fig. 7.

Fig. 7



[3] DISASSEMBLY/ASSEMBLY

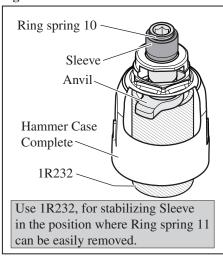
[3]-2. Anvil and Bit holding Mechanism

DISASSEMBLING

- (1) Remove Hammer case section as illustrated in Figs. 2 and 3.
- (2) Remove Bearing box, Internal gear 43 and Hammer section from Hammer case complete as illustrated in Fig. 4.

Fig. 9

Fig. 8

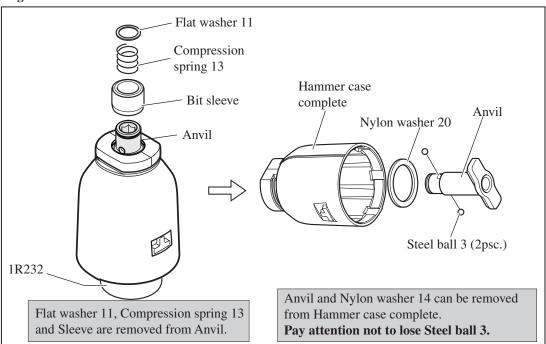


Raise this side (opposite to the expanded side) with index finger.

Ring spring 10



Fig. 10



Note: In case of repairing exclusively for Bit holding mechanism (Bit sleeve, Compression spring 13, Flat washer 11), it is not necessary to disassemble Hammer case complete from the machine.

ASSEMBLING

Take the disassembling step in reverse.

- Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-3. Hammer Section

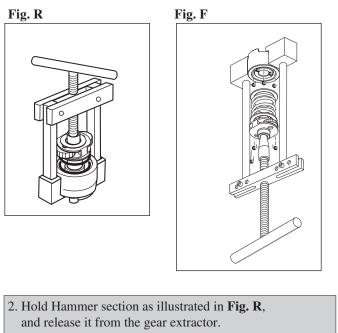
DISASSEMBLING

- (1) Disassemble Hammer case section from the machine. (Figs. 2 and 3)
- (2) Remove Hammer from Hammer case complete. (Fig. 4)
- (3) Disassemble Hammer section as illustrated in Figs. 11 to 14.

Fig. 11

Steel ball 4.8 Spindle (2pcs.) Top of Cam groove on Spindle Hammer Opening for Steel ball insertion 1. Press down Hammer using 1R045 to align the opening for Steel ball insertion with the top of cam grooving on Spindle. And then, remove Steel ball 4.8 from Spindle.

Fig. 12



to align the opening for Steel ball
insertion with the top of cam grooving

Caution >

Do not hold gear extractor as illustrated in Fig. F

when releasing Hammer section from the Gear extractor. Failure to follow this instruction could cause Steel balls to get out of hammer.

Fig. 13

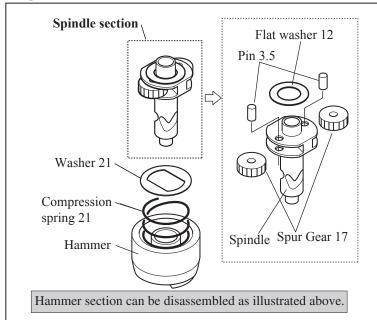
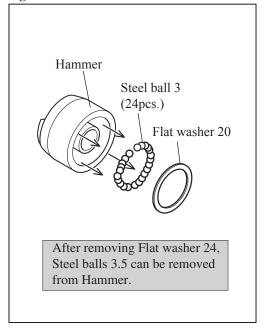


Fig. 14



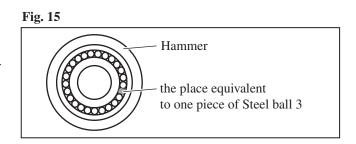
[3] DISASSEMBLY/ASSEMBLY

[3]-3. Hammer Section (cont.)

ASSEMBLING

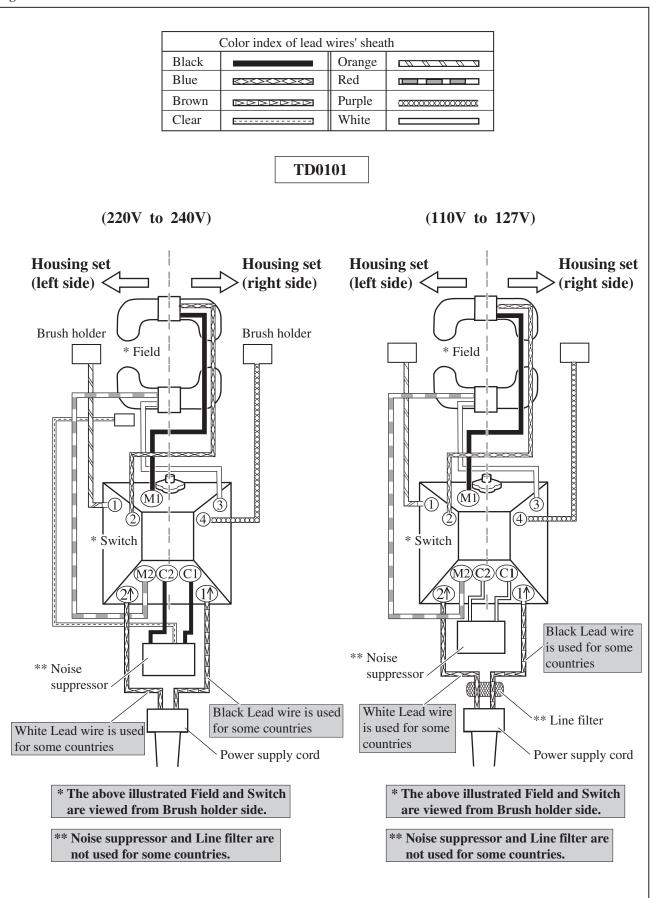
Take the disassembling step in reverse.

Note: Make sure that the place equivalent to one piece of Steel ball 3 has to be in Hammer when all 24 pieces of Steel ball 3 are set in place. Refer to **Fig. 15**.



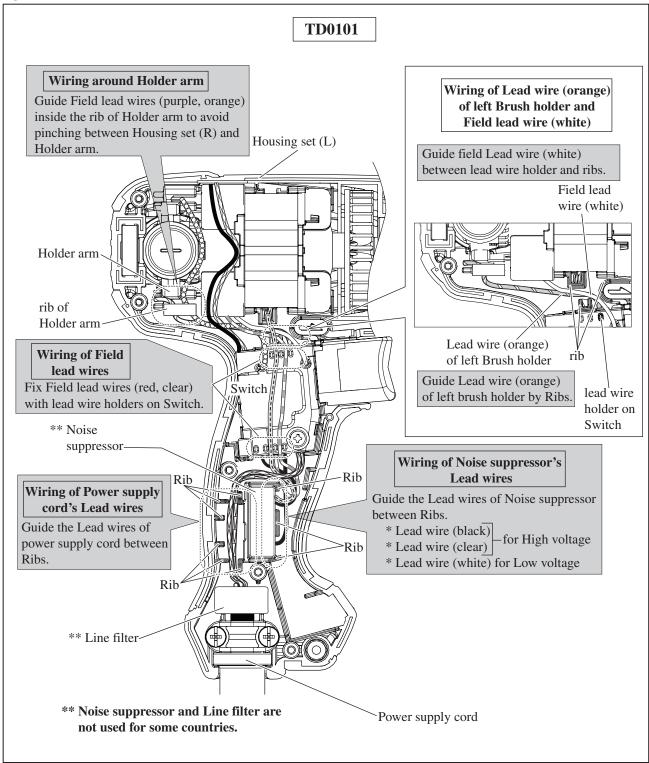
Circuit diagram

Fig. D-1



► Wiring diagram

Fig. D-2



Circuit diagram

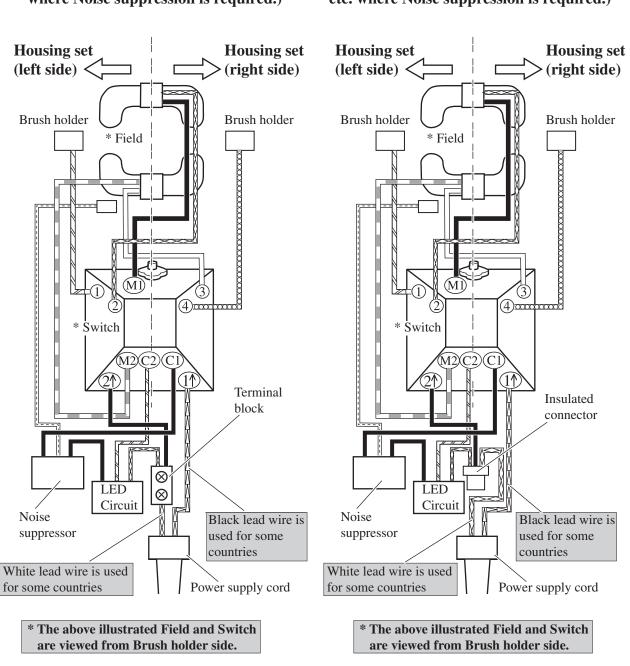
Fig. D-3

Color index of lead wires' sheath			
Black		Orange	
Blue	80000	Red	
Brown		Purple	000000000000000000000000000000000000000
Clear		White	

TD0101F

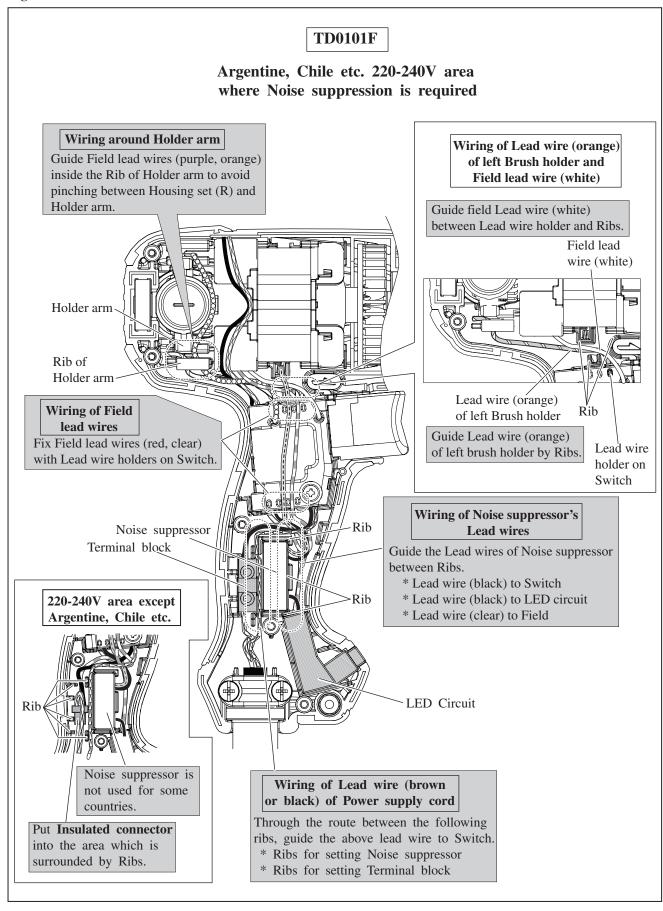
(Argentina, Chile etc. 220-240V area where Noise suppression is required.)

(220-240V area except Argentina and Chile etc. where Noise suppression is required.)



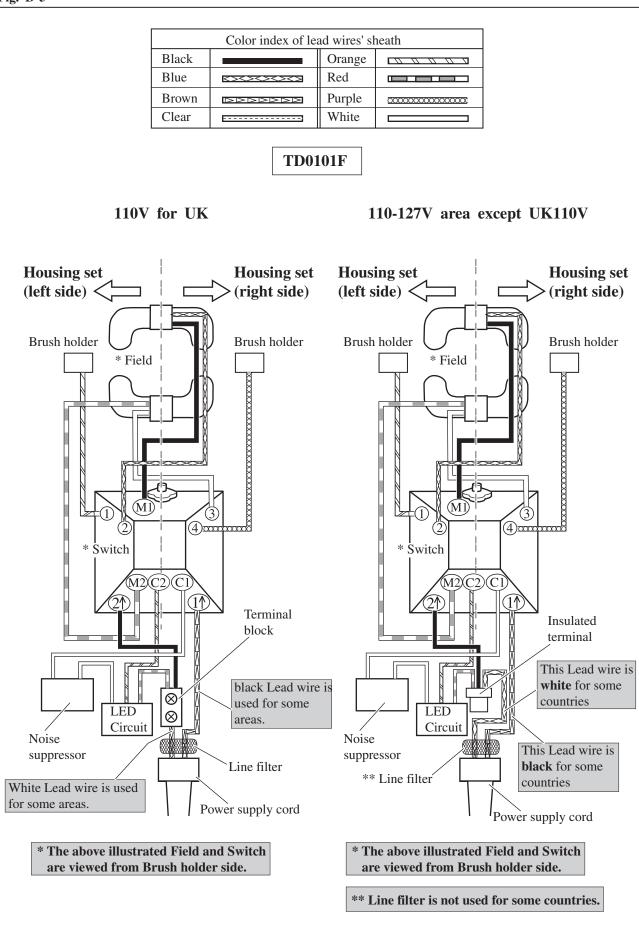
► Wiring diagram

Fig. D-4



Circuit diagram

Fig. D-5



► Wiring diagram

Fig. D-6

