

CORDLESS SCREWDRIVER DFT087F, DFT129F

REPAIR MANUAL



August 2022 Ver.1

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2 CAUTION

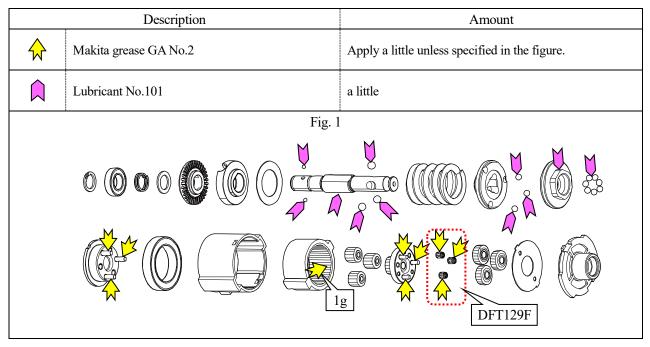
Repair the machine in accordance with "Instruction manual" or "Safety instructions". Follow the instructions described below in advance before repairing:

- Wear gloves.
- In order to avoid wrong reassembly, draw or write down where and how the parts are assembled, and what the parts are. It is also recommended to have boxes ready to keep disassembled parts by group.
- Handle the disassembled parts carefully. Clean and wash them properly.
- Remove Battery, except when it is necessary to check the operation of the machine.

3 NECESSARY REPAIRING TOOLS

Code No.	Description	Use for	
1R003	Retaining ring pliers ST-2N	removing/assembling Ring spring 9 and Retaining ring S-10	
1R212-A	Plier tip for 1R004 small	using with 1D002	
1R212-B	Plate set with screws	using with 1R003	
1R288	Screwdriver magnetizer	magnetizing screwdriver	
1R411	Push bar for lead wires	fixing Lead wires	
1R479	Shockless hammer (Small)	press-fitting Hex nut M3 (a component of Housing R)	

4 LUBRICANT AND ADHESIVE APPLICATION



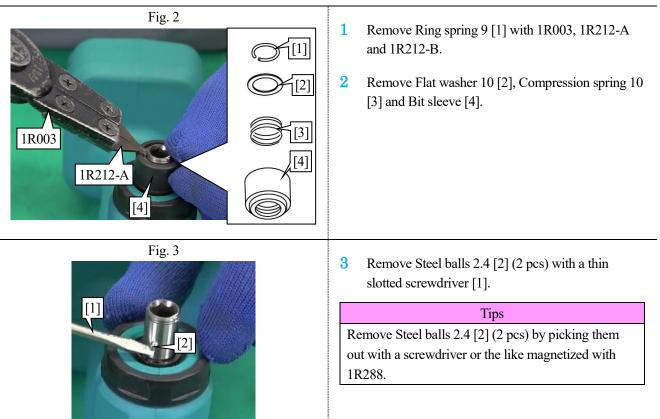
5 TIGHTENING TORQUE SPECIFICATIONS

Р	arts to fasten	Fastener	Tightening torque (N·m)
Housing L	\leftrightarrow Housing R	Lock nut M28 black	2.0 - 3.0
Hausing I	\leftrightarrow Housing R	Pan head screw M3x20	0.4 - 0.6
Housing L	\leftrightarrow Cover	Pan head screw M3x10	0.4 - 0.0

6 REPAIR

6-1 Bit sleeve section

6-1-1 Disassembling



6-1-2 Assembling

Fig. 4	 Assemble Steel balls 2.4 [2] (2 pcs) with a thin slotted screwdriver [1]. Tips Apply some grease to Steel balls 2.4 [2] (2 pcs.) so as not to fall off them.
Fig. 5	 2 Assemble the following parts, then assemble Ring spring 9 [1] with 1R003, 1R212-A and 1R212-B. • Bit sleeve [2] • Compression spring 10A [3] • Flat washer 10 [4] Note Insert a bit and check that the bit can be attached or detached properly.

6-2 Electrical parts section

6-2-1 Disassembling

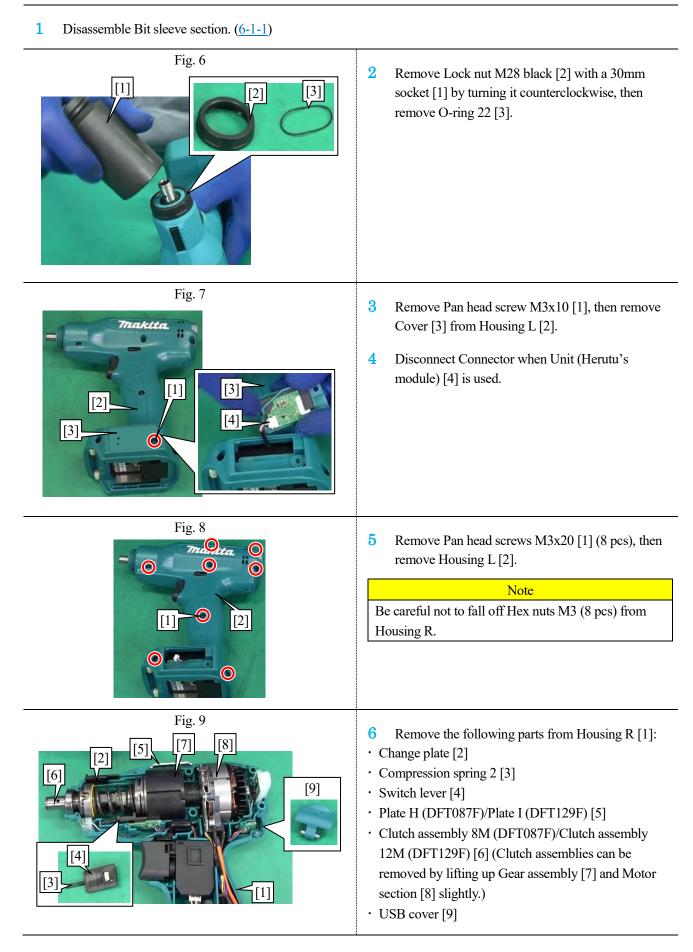


Fig. 10	7 Remove Gear assembly [2] and Rotor [3] from Housing R [1].
Fig. 11	 8 Remove the following parts from Housing R [1]: F/R change lever [2] Lens, LED circuit [3] LED circuit [4] Stator [5] Sensor circuit [6] USB circuit [7] Switch [8] Buzzer circuit [9] Controller [10] Terminal [11] 9 Disconnect Connectors and Receptacles.
Fig. 12	 10 Remove Tapping screws PT 2x6 [2] (3 pcs) from Stator [1] with a No.1 Phillips screwdriver, then remove Circuit board [3]. Note Be careful not to strip the head of Tapping screw PT 2x6 [2].
Fig. 13	 11 Remove Flat head screws M3x6 [2] (3 pcs) from Stator [1] with a No.1 Phillips screwdriver, then remove Terminal unit [3]. Note Be careful not to strip the head of Flat head screws M3x6 [2] (3 pcs). Remove Terminal unit [3] straight while being careful not to deform Thermistor connection terminals [4].

6-2-2 Assembling

1 Assemble Clutch assembly and Gear assembly. (<u>6-3-2</u>	2, <u>6-4-2</u>)
Fig. 14	 Assemble Terminal unit [2] to Stator [1], then tighten Flat head screws M3x6 [3] (3 pcs) with a No.1 Phillips screwdriver.
	Note
	 Be careful not to strip the head of Flat head screws M3x6 [3] (3 pcs). Connect Terminal unit [2] straight with care not to deform the terminals [4] of Thermistor connection.
Fig. 15	 3 Assemble Circuit board [2] to Stator [1], then tighten Tapping screws PT 2x6 [3] (3 pcs) with a No.1 Phillips screwdriver. 4 Assemble the electrical parts in accordance with
	Circuit diagram and Wiring diagram.
	Note
[1]	Be careful not to strip the head of Tapping screw PT 2x6 [3].
Fig. 16	 5 Assemble the following parts to Housing R [1], then fix Lead wires with 1R411. Controller [2] Terminal [3] Buzzer circuit [4] Switch [5] LED circuit [6] Sensor circuit [7] F/R change lever [8] Lens, LED circuit [9] USB circuit [10]
Fig. 17	 6 Assemble Rotor [2] and Gear assembly [3] to Stator [1], then assemble them to Housing R [4]. <u>Note</u> Assemble Rotor [2] to Stator [1] while putting Stator [1] on a workbench, because the excessive pushing Rotor [2] to Stator [1] may cause the break of Printed circuit board.

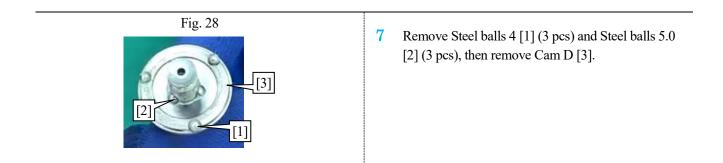
Fig. 18	 Assemble Clutch assembly 8M (DFT087F)/Clutch assembly 12M (DFT129F) [2] while lifting up Gear assembly [1] slightly, then assemble them to Housing [3].
Fig. 19	 8 Assemble the following parts to Housing R [1]: Change plate [2] Note Move Change plate [2] to Motor side. Compression spring 2 [3] Switch lever [4] USB cover [5] Note Stay USB cover [5] close. Plate [6] Note Assemble Plate [6] so that its surface with numerical value faces Housing L [7].
Fig. 20	 9 Assemble Housing L [1] with Pan head screws M3x20 [2] (8 pcs). Note If Hex nuts M3 fall off from Housing R, tighten Pan head screw M3x20 [2] approximately 2 times, then press-fit Hex nuts M3 by tapping them with 1R479. Pass Connector through Housing L [1] if Unit (Herutu module) is used.

Fig. 21	 10 Connect Connector if Unit (Herutu's module) [1] is used. 11 Assemble Cover [3] to Housing L [2] with Pan head screw M3x10 [4].
Fig. 22	12 Assemble O-ring 22 [1].
Fig. 23	13 Tighten Lock nut M28 black [2] to the specified torque by turning a 30mm socket [1] clockwise.

6-3 Clutch assembly section

6-3-1 Disassembling

1 Disassemble the electrical parts. (6-2-1)Fig. 24 2 Remove Retaining ring S-10 [1] with 1R003, then 1R003 [1] remove Ball bearing 6800LLB [2], Compression spring 10B [3] and Flat washer 10 [4]. [3] [4] Fig. 25 3 Loosen Lock nut M12 [2] by using Adjust grip [1] [1] until it gets loose. 4 Remove Adjust spring [3] by turning Lock nut M12 [2] [3] [2] (Left-handed) clockwise. Fig. 26 5 Remove Flat washer 18 [1] and Compression spring 19E (DFT087F)/Compression spring 19C [1] [2] (DFT129F) [2]. [1] [2] Fig. 27 6 Remove Steel balls 4 [1] (7 pcs), then remove Cam F [2].



6-3-2 Assembling

Fig. 29	1 Assemble Cam D [2] to Spindle [1]. Note Apply the specified grease to the threads of Spindle [1].
Fig. 30	 2 Assemble the following parts to Cam D [1] and Spindle [2]: Steel balls 4 [3] (3 pcs) Steel balls 5.0 [4] (3 pcs) Cam F [5] Note Apply the specified grease to the following parts: Steel ball 4 [3] Steel ball 5 [4] (for fall-off prevention)
Fig. 31	 The cam portion of Cam F [5] 3 Assemble Steel balls 4 [3] (7 pcs) between the groove of Spindle [1] and the depression of Cam F [2]. Note Apply the specified grease to Cam F [2] and Steel balls 4 [3] (7 pcs).

Fig. 32 fig. 32	 Assemble Compression spring 19E (DFT087F)/Compression spring 19C (DFT129F) [2] and Flat washer 18 [3] to Spindle [1].
Fig. 33	5 Assemble Adjust ring [2] to Spindle [1].
Fig. 34	 6 Screw Lock nut M12 [2] (Left-handed) to Spindle [1] by turning it counterclockwise.
Fig. 35	 7 Assemble the following parts to Spindle [1], then assemble Retaining ring S-10 [2] with 1R003. Flat washer 10 [3] Compression spring 10B [4] Ball bearing 6800LLB [5]

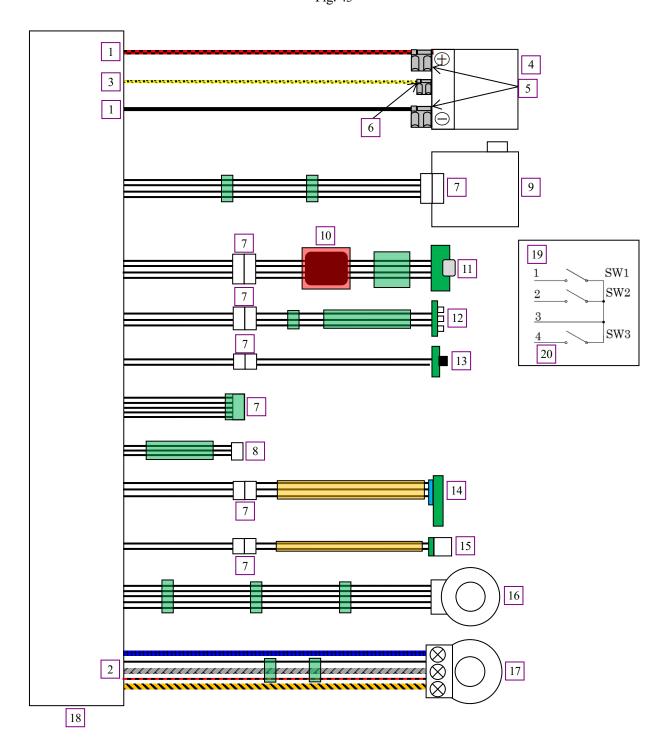
1 Disassemble the electrical parts. (6-2-1) Fig. 36 2 Remove Motor bracket [2] from Gear case [1] by [8] [1] turning it counterclockwise, then remove the following parts: • Lock washer [3] (Lock washer can be removed by inserting a thin screwdriver or the like into the hole of it and turn it counterclockwise.) Spur gears 18 (DFT087F)/Spur gears 14 (DFT129F) • [4] (3 pcs) • Spur gear 20 complete A (DFT087F)/Spur gear 17 complete B (DFT129F) [5] • Spur gears 13 (DFT087F)/Spur gears 19 (DFT129F) 10[6] (3 pcs) • Internal gear 47 [7] • Carrier A (DFT087F)/Carrier C (DFT129F) [8] • Ball bearing 6805LLB [9] • Needle cages 205 [10] (3 pcs, DFT129F only)

6-4-2	Assembling
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Fig. 37	1 Assemble Ball bearing 6805LLB [2] to Carrier A (DFT087F)/Carrier C (DFT129F) [1].
[2]	
Fig. 38	2 Assemble Gear case [1] and Internal gear 47 [2]. (Fig. 37)
Fig. 39	 Assemble Spur gears 13 (DFT087F)/Spur gears 19 (DFT129F) [2] (3 pcs) to the pins of Carrier A
	(DFT087F)/Carrier C [1] (DFT129F) [1].
	Apply the specified grease to the pins of Carrier A (DFT087F)/Carrier C (DFT129F) [1] (3 pcs) and the inner teeth of Internal gear 47 [3].

Fig. 40	(DFT087F)
	 Assemble Spur gear 20 complete A [1], then assemble Spur gears 18 [2] (3 pcs). Note Apply the specified grease to the pins (3 pcs) of Spur gear 20 complete A [1] and the inner teeth of Internal gear 47 [3].
Fig. 41	(DFT129F)
	 5 Assemble Needle cages 205 [2] (3 pcs) and Spur gears 19 [3] (3 pcs) to the pins (3 pcs) of Spur gear 17 complete B [1]. Note Apply the specified grease to Needle cages 205 [2] (3 pcs) and the inner teeth of Internal gear 47 [4].
Fig. 42	 6 Assemble Lock washer [2] to Gear case by aligning it with the groove of Gear case [1], then assemble them by turning Lock washer [2] clockwise. 7 Similarly, assemble Motor bracket [3] by turning it clockwise. Tips Insert Lock washer [2] and Motor bracket [3] into the smaller notch of Gear case [1].

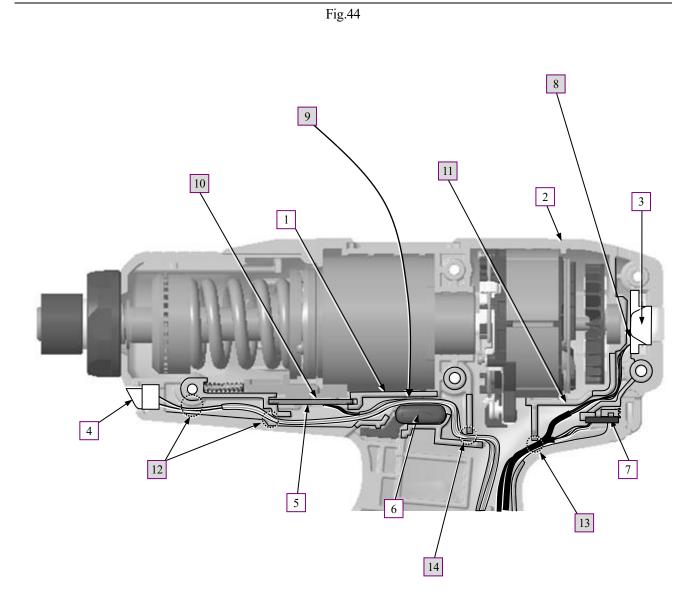
7 CIRCUIT DIAGRAM



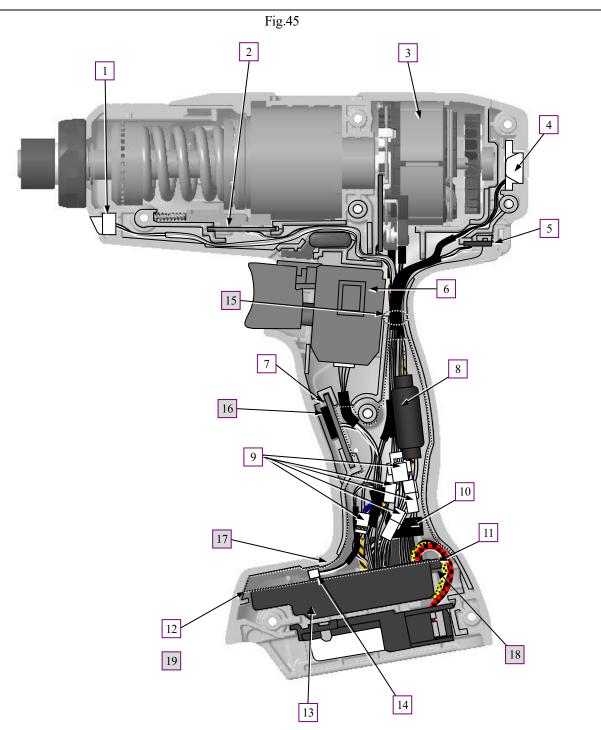
1	AWG14	11	USB circuit
2	AWG16	12	LED circuit B
3	AWG22	13	Buzzer circuit
4	Terminal	14	Sensor circuit
5	Flag receptacle with lock (#250, t=0.8)	15	LED circuit A
6	Flag receptacle with lock (#187, t=0.8)	16	Sensor board
7	Connector	17	Terminal unit
8	Connector for Herutu's module	18	Controller
9	Switch	19	Circuit diagram of Switch
10	Line filter	20	Reversing switch

Fig. 43

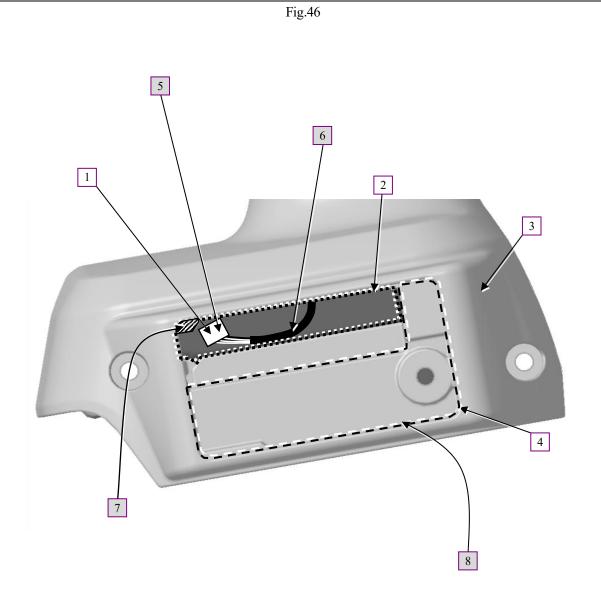
WIRING DIAGRAM LED circuit section 8 8-1



1	Rib A	5	Sensor circuit		
2	Housing R	6 F/R change lever			
3	LED circuit B	7	USB circuit		
4	LED circuit A				
8	Place LED circuit B so that its lead wires come out from the botte				
9	Route LED circuit A lead wires/Sensor circuit lead wires between Rib A and F/R change lever.				
10	Be careful not to put Lead wires on/under Sensor circuit.				
11	Be careful not to put LED circuit B lead wires on this rib.				
12	Fix LED circuit A lead wires in these grooves.				
13	Fix USB circuit lead wires and LED circuit B lead wires in this groove.				
14	Fix LED circuit A lead wires and Sensor circuit lead wires in this groove.				



1	LED circuit A	8	Line filter			
2	2 Sensor circuit	9	Connector (for LED circuit A, LED circuit B, Sensor circuit,			
			USB circuit and Buzzer circuit)			
3	Stator	10	Connector with Tape			
4	LED circuit B	11	Protrusion of Controller			
5	USB circuit	12	Space A			
6	Switch	13	Controller			
7	Buzzer circuit	14	Connector (3-pin/No connection)			
15	5 Fix the following Lead wires in this groove:					
15	LED circuit A lead wires/LED circuit B lead wires/Sensor circuit lead wires/USB circuit lead wires/Lead wires for Stator					
16	Be careful not to put Lead wires on/under Buzzer circuit.					
17	Place Line filter, Connector (for LED circuit A, LED circuit B, S	ensor	circuit, USB circuit and Buzzer circuit) and Connector with Tape			
1 /	in Space A.					
18	8 Be careful not to put Lead wires under the protrusion of Controller.					
19	19 Place Connector (3-pin/No connection) in Space A if there is no opening A in Housing L (See next page.).					



1	Connector (3-pin/No connection)	3	Housing L		
2	Opening A	4	Space B		
5	Place Connector (3-pin/No connection) in Opening A.				
6	Pass Connector (3-pin/No connection) lead wires through Opening A.				
7	Be careful not to put Connector (3-pin/No connection) and Lead wires on this rib (hatched portion).				
8	Be careful not to put the slack of Connector (3-pin/No connection	1) lea	d wires on Space B.		

10 TROUBLESHOOTING

Whenever you find any trouble in your machine, first, see this list to check the machine for solution.

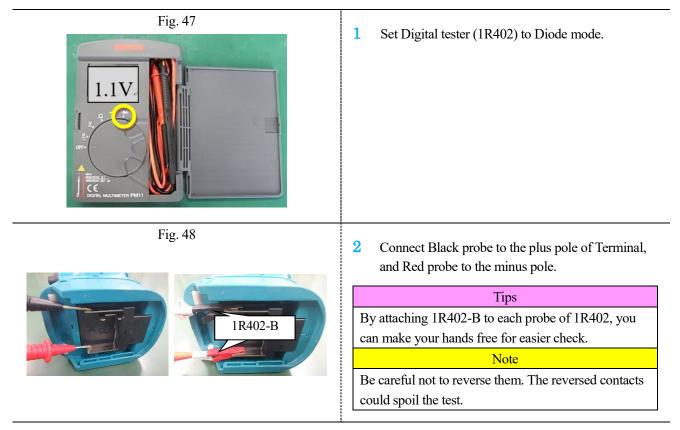
10-1 Note for Repairing

The content may vary depending on the model.

- **1** Use a full charged battery which has a star mark.
- 2 When Housing is disassembled, check the conditions of the electrical parts (Connectors, Lead wires, Switches, etc.), Rotor, Stator, Gear section, etc.
- Be sure to test the machine 10 times to correctly diagnose functions such as F/R control etc.
- 4 Use the following Repairing tools for diagnosing LED and Switch.

Repairing tools	Purpose		
1R402			
1R402-B	For checking variable resistance value or electrical continuity at contact points		
1R412	For checking whether LED lights up		
1R413	For checking variable resistance value or electrical continuity at contact points		

10-2 Test for checking the short-circuit in FET (Field Effect Transistor) of controller



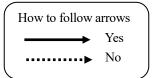
3 Wait until the figure on Tester gets stable. Controller is in order if Tester indicates 1.1±0.2V. If Tester indicates any other voltage, Controller is broken. Replace it with a new one.

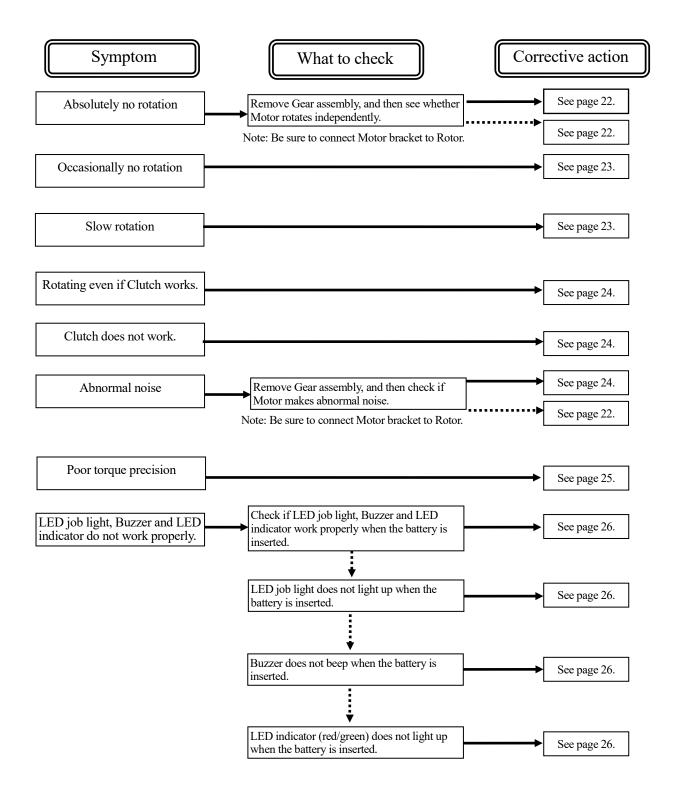
12 CHECK LIST FOR TROUBLESHOOTING

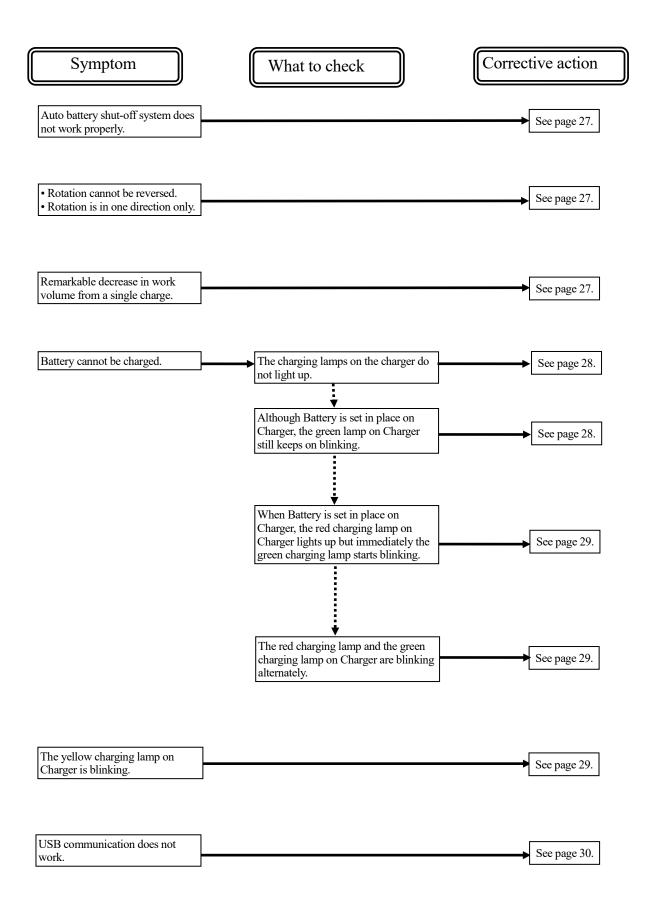
Check the items in the following flowchart in order from the top to bottom. Description of each item is referred to CIRCUIT DIAGRAM.

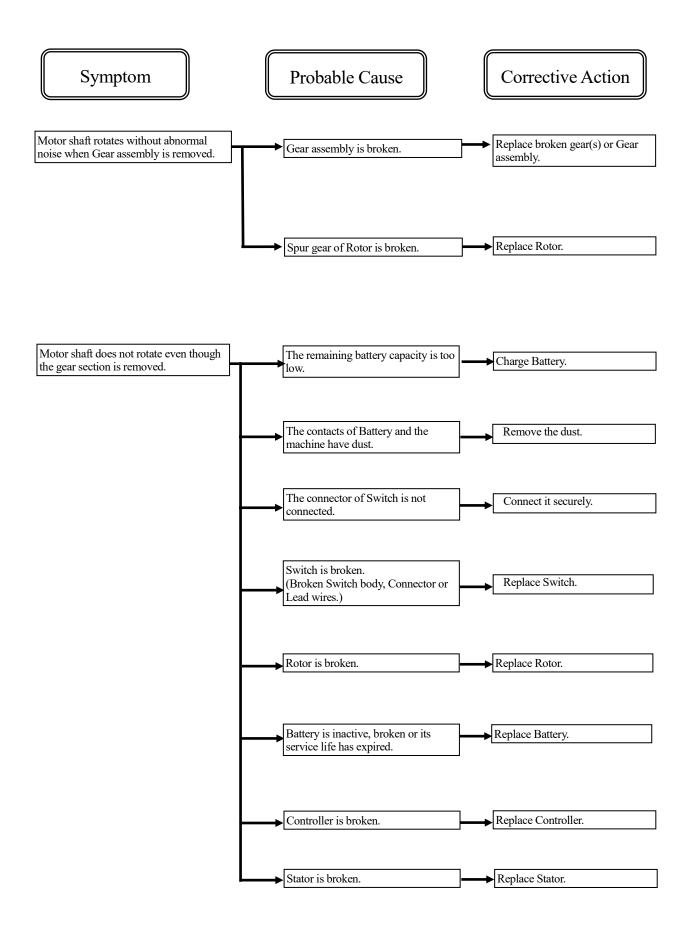
 \cdot After corrective action, return to the start of Troubleshooting and re-check again.

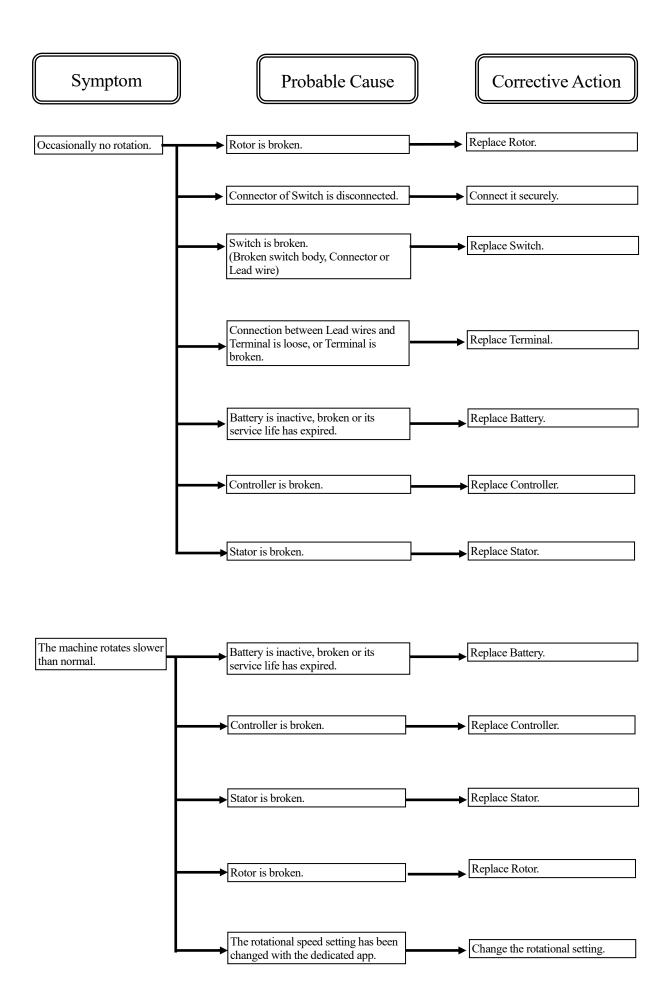
• The machine settings using App. should be checked with factory manufactured condition. If the machine is used App and cannot change the settings, replace "Controller" or "USB Circuit".

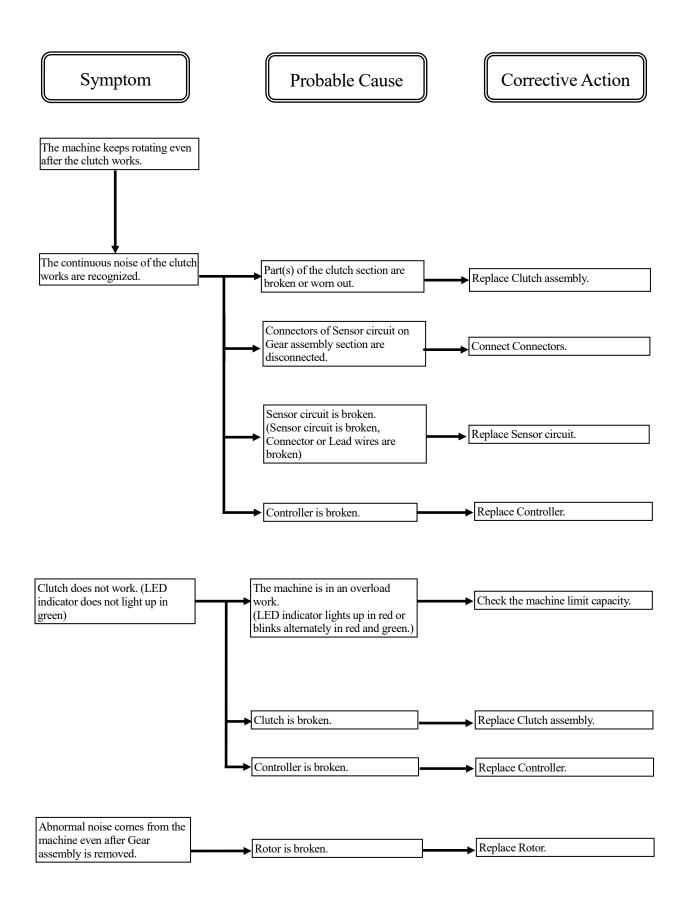


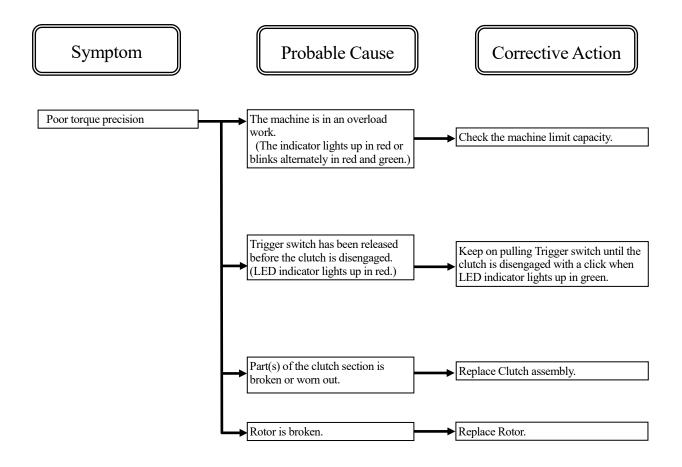


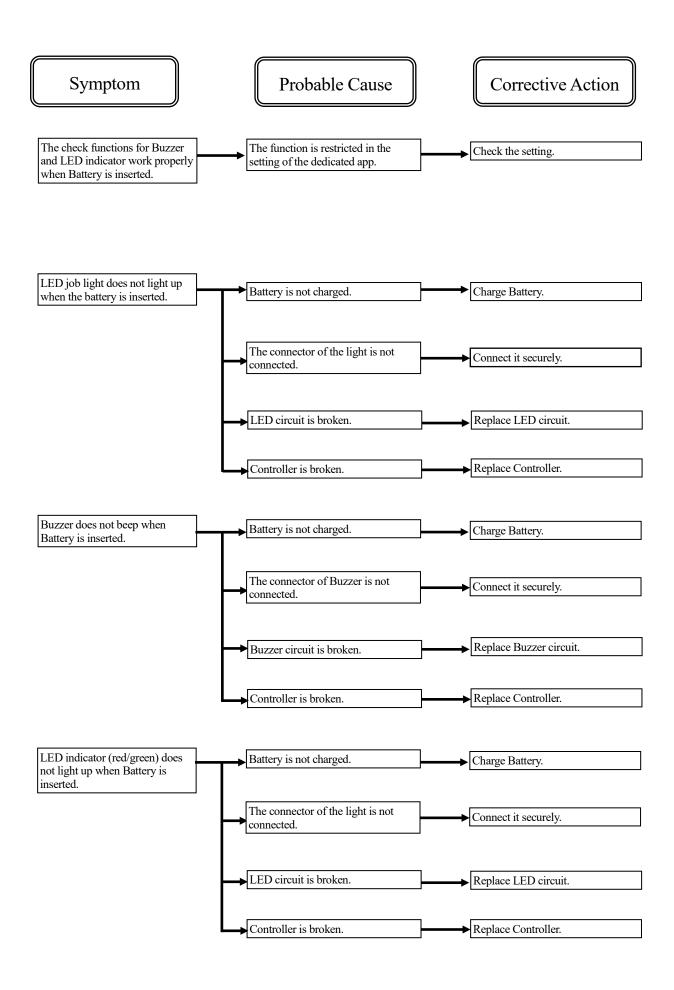


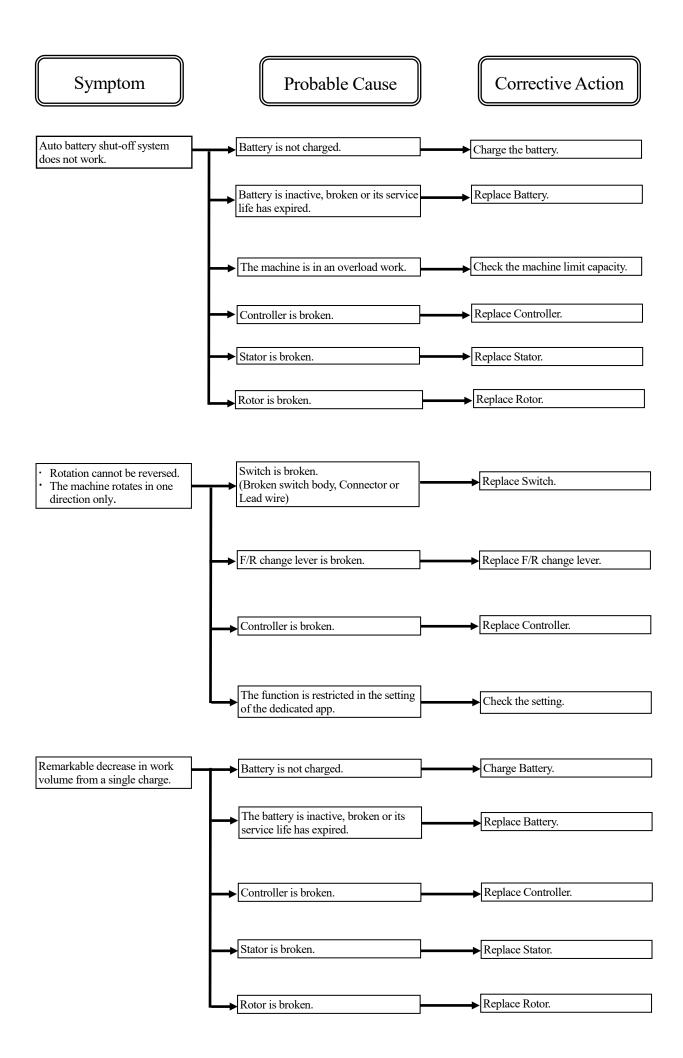


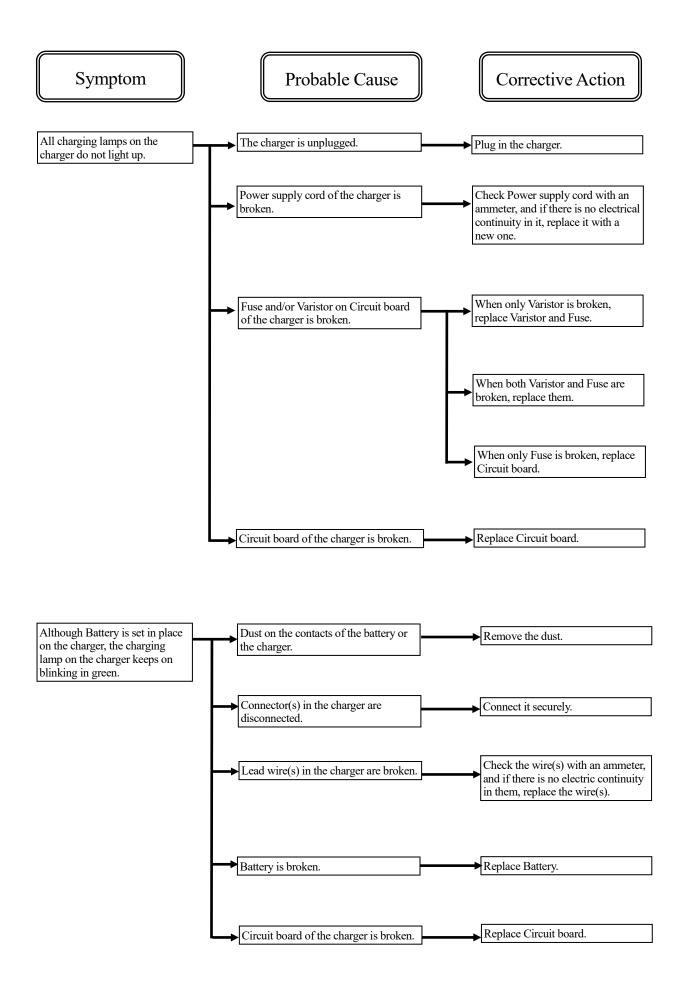


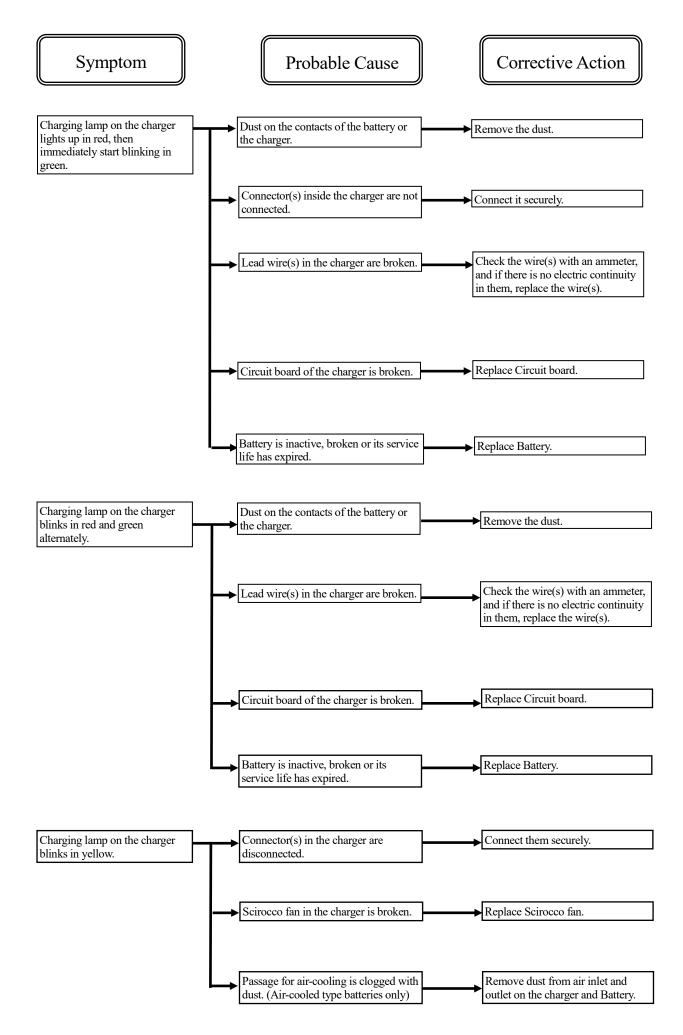


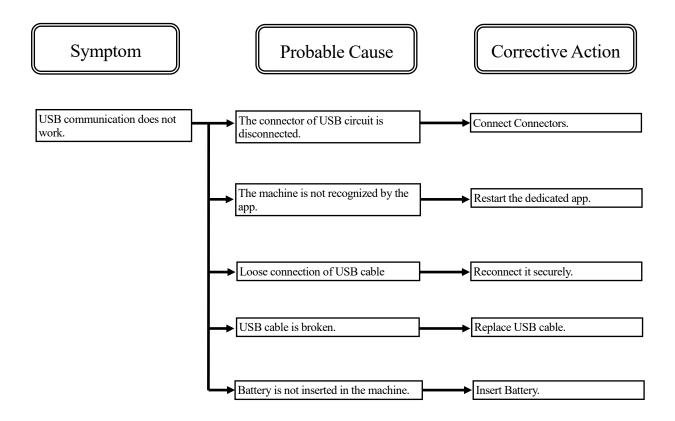












13 APPROXIMATE ENDURANCE TIME OF EACH PART

	The time for replacing the parts
Part description	DFT087F/DFT129F
	Torque 8N·m/12N·m Turning angle 90°
Clutch assembly	
Gear assembly	
Motor	About 250,000 times
Switch	About 250,000 times
Terminal	
Other parts	

NOTE: The above values are approximate and may vary depending on the usage conditions. Regularly checking of tightening torque is recommended.

Durability test conditions are as follows: No load (2 seconds) - Load - Stop 10 seconds/cycle

Turning angle shows the angle of the screw (bolt) from the point where the target torque reaches 50% to the point where the target torque reaches 100%.

14 MAIN FEATURES OF THE MACHINE

Motor	Brushless DC motor
Grip	Anti-slip
Screws for fastening Motor housing	Machine screws for easy disassembly/reassembly
Job light	 White LED lights up by pulling the trigger switch. (Max – Mid - OFF) Improved operability with lighting up before rotation White LED turns off 10 seconds after the trigger switch is released.
Battery capacity reminder	When the battery capacity decreases to a certain level, LED indicator starts blinking in red, and Beeper starts beeping to remind the user.
Auto Battery shut-off system	The machine will stop automatically to avoid incomplete tightening when the battery capacity is almost exhausted. At this time, LED indicator lights up in red and Beeper starts beeping.
Electronic functions and Electronic reminders	Various warning will be indicated with Green and Red LED lamp. (See <u>16 LISTS OF THE ELECTRONIC FUNCTIONS AND</u> <u>REMAINDERS</u>)
Presetting function for variable rotational speed	Using the dedicated app Makita Industry Tool Settings, rotational speed can be preset for various conditions.

15 SPECIFICATIONS OD BATTERY

Compatible battery	BL1815N	BL1820(B)	BL1830(B)	BL1840(B)	BL1850(B)	BL1860B
Voltage (V)			DC	18		
Capacity (Ah)	1.5	2.0	3.0	4.0	5.0	6.0
Energy capacity (Wh)	27	36	54	72	90	108
The kind of cell	Li-Ion					
Charging time with DC18RC (min)	15	24	22	36	45	55
Battery type	Slide-on					

16 LISTS OF THE ELECTRONIC FUNCTIONS AND REMAINDERS16-1 When a screw is tightened completely or when there is no trouble with the machine:

Function	Indication		Status	Contents	
Function	LED indicator	Beeper	Status	Contents	
Checking LED indicator and Beeper.	Lights up first in green, then in red and then in white.	Continuous short beeps	When Battery is installed.	 Checking the followings: Indication lamp lights up in green and red. Light lights up. Buzzer works properly. 	
Completed tightening Auto stop and Delayed restart(*1)	Lights up in green for one second.	No beep	When a screw is tightened completely.	 Indication of completed tightening Avoiding unexpected overtightening Motor does not start during these settings even if the trigger switch is pulled. 	
Indication of waiting on Phase switching	Lights up or blinks (*2) in green.	No beep	Under the conditions to switch the next Phase	Indication of waiting on Phase switching	
Torque check mode	Lights up first in green, then in yellow and then in red.	No beep	When the machine is in Torque check mode.	This mode can be activated only when the machine is in "Tight Phase" loaded in the machine.	
Maintenance alarm	Blinks in yellow.	No beep	When the number of tightened screws has reached the one preset by user.	Reset the setting of Maintenance alarm using the dedicated app.	

(*1) Delayed restart can be set with the dedicated app. (*2) Lighting up/Blinking can be set with the dedicated app.

16-2 When a screw is tightened incompletely or when there is some trouble with the machine:

Function	Indication		Cause	Corrective action	
Function	LED indicator	Beeper	Cause	Confective action	
Warning against incomplete tightening	Lights up in red.	A long beep	Incomplete tightening has been done.	Tighten the screw once again until indicator lights up in green.	
Battery capacity reminder	Blinks in red slowly.	Continuous very long beeps	Battery capacity is low.	 Motor starts by pulling the trigger switch. Replacing to the full charged Battery is recommended. Cancelation with recovering Voltage. 	
Auto Battery Shut-off	Lights up in red.	A long beep	Battery capacity is low.	Replace Battery with a full charged one. The reminders turn off when Battery is removed.	
Anti-resetting of Controller	Lights up alternately in red and green.	Continuous long beeps	Abnormal drop in Battery voltage has been caused. Motor does not start even if the trigger switch is pulled.	Replace Battery with a full charged one. The reminders turn off when Battery is removed.	
Overheat	Blinks in red quickly.	Continuous long beeps	Controller or Motor is overheated. Motor does not start even if the trigger switch is pulled.	Remove Battery immediately, then cool down the machine. The reminders turn off when the machine temperature gets low.	

(Continued to the next page)

	Indication		C	~ · ·	
Function	LED indicator	Beeper	Cause	Corrective action	
Failure of detection on Motor temperature	Blinks in red quickly.	Continuous long beeps	The detection of Motor temperature does not work properly due to the reason of breaking of Lead wires etc.	Remove Battery immediately, then cool down the machine. If the machine does not work properly, ask Makita service center.	
Trigger error when Battery is installed	Lights up alternately in red and green.	Continuous long beeps	Battery is installed with pulling the trigger switch.	Install Battery after releasing the trigger switch. The reminders turn off when the trigger switch is released.	
Warning against Malfunction of Motor	Lights up alternately in red and green.	Continuous long beeps	Motor rotates abnormally. Motor does not start even if the trigger switch is pulled.	Ask Makita service center.	

16-3 When tightening the tightened screw again:

Function	Indication		Cause	Corrective action
	LED indicator	Beeper	Cause	Corrective action
Double hit detection(*)	Lights up in red.	A long beep	When the clutch is disengaged before a preset turning angle is reached, with the function on.	The electronic reminders warn that the screw has been double hit unexpectedly.

(*) Double hit function can be set with the dedicated app.

16-4 During USB communication

Function	Indication		Causa	Corrective action
	LED indicator	Beeper	Cause	Corrective action
Not communicated/ Communication is impossible (Connecting to PC)	Blinks in yellow.	No beep	Although the machine is connected with PC, communication is not available	Restart the dedicated app, and reconnect USB cable.
Communication is possible (Connecting to PC)	Blinks in green.	No beep	The machine is connected with PC, and communication is available.	No

17 TORQUE CHECK MODE

The Machine can be used in "Torque check mode" with the predetermined operations. "Torque check mode" is the mode that the machine operates with "Tight Phase" only. The machine will switch to "Tight Phase" only, even if the machine is set in the multiple settings of "Rotation Phase".

17-1 How to use "Torque check mode".

When inserting Battery into the machine, operate Trigger switch and F/R change lever by following the steps below:

- (1) With Trigger switch on, insert Battery into the machine. At this time, "Battery insertion error" will be indicated.
- (2) After confirming that "Battery insertion error" is indicated, release Trigger switch and leave it in OFF position for more than five seconds until LED indicator is off.
- (3) Push F/R change lever toward the opposite direction and LED indicator will light up first in green, then in yellow and then in red. If you do not operate F/R change lever in this step, the machine will be in the normal mode.
- (4) Pull Trigger switch to ON position and the machine will start up with only "Tight Phase".

17-2 How to cancel "Torque check mode".

"Torque check mode" can be canceled by removing Battery from the machine.

18 USING THE DEDICATED APP (MAKITA INDUSTRY TOOL SETTINGS)

Additional functions such as "Presetting function for variable rotational speed" can be used with the dedicated app (Makita Industry Tool Settings). When setting up and using the dedicated app, follow the instructions in the instruction manual for the app.

[Compatible OS] Windows 7, 8, 8.1, 10

[Installing the dedicated app]

Follow the instructions in the instruction manual for the app.

[Note on Controller for repair]

ID has not been registered for the controller for repair, yet. (The ID box is blank as shown below.)

1	Makita Industry Tool Settings						
	Language(<u>L</u>) V	ersion(<u>A</u>)					
	Product Information						
	Model No.:	(*)					
	ID:						
	NOTE1:						
	NOTE2:						
		Write ID in Tool Write NOTE in Tool					

(*) The model number of connected machine is shown in the Model No. box.)