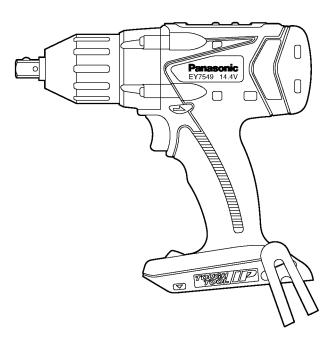
Service Manual Cordless Multi- Impact & Drill Driver

Model No. EY7549

Europe Oceania



This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE =

There are special components used in this equipment which are important for safety. These parts are marked by \triangle in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

TABLE OF CONTENTS

	PAGE
1 Warning	2
2 Specifications	2
3 Troubleshooting Guide	3
4 Disassembly and Assembly Instructions	8
5 Wiring Connection Diagram	15
6 Schematic Diagram	15
7 Exploded View and Replacement Parts List	16





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1 Warning

Caution:

- Pb free solder has a higher melting point that standard solder; Typically the melting point is 50 70°F (30 40°C) higher. Please use a soldering iron with temperature control and adjust it to 750 ± 20°F (400 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F / 600°C).

2 Specifications

Main Unit

Model No.	EY7549		
Motor	14.4 V DC		
	Impact mode: 0 - 2300 min ⁻¹		
No load speed	Drill driver High mode:0 - 1200min ⁻¹		
	Drill driver Low mode:0 - 380min ⁻¹		
Maximum torque	Impact mode: 150 N•m with M16 High tensile bolt 130 N•m with M14 High tensile bolt		
	Drill driver High mode:9 N•m		
	Drill driver Low mode:26 N•m		
Clutch torque	Approx. 0.7 - 4.4 N•m		
Overall length	210 mm		
Weight (with battery pack)	1.85kg		
Noise Vibration	Typical Noise Emission Values according to EN 60745; Sound Pressure Level (L_{pA}) : 98.2 dB (A) Sound Power Level (L_{WA}) : 109.2 dB (re1pw) Uncertainty (K): 3 dB Typical Vibration according to EN 60745: \leq 5.88 m/s ² (Impact tightening of fasteners of the maximum capacity of the tool) Uncertainty (K): 1.5 m/s ²		

Battery Charger

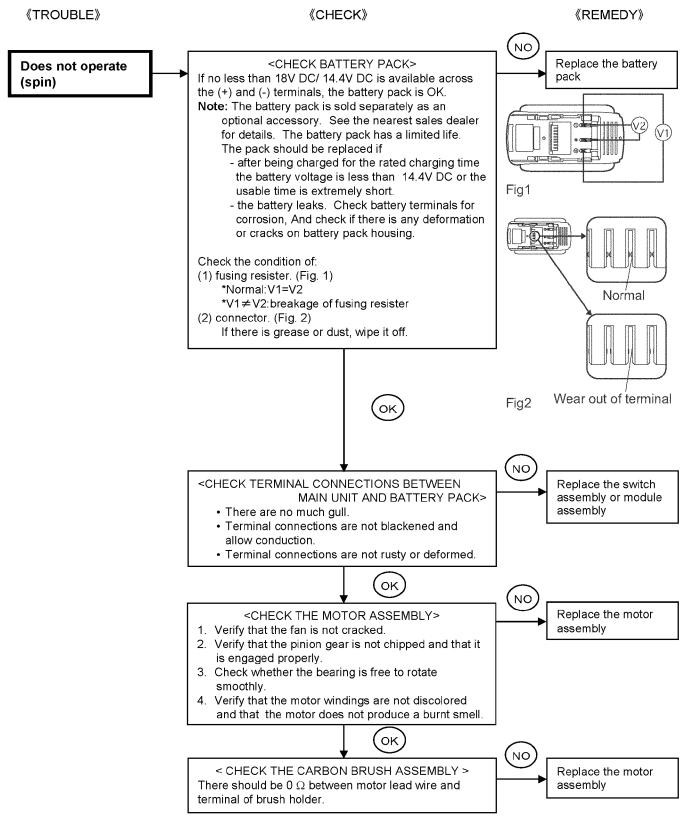
Model No.	EY0L81			
Electrical rating	See the rating plate on the bottom of the charger			
Weight	0.93kg			
Charging time	EY9L41	EY9L42	EY9L44	EY9L45
	Usable:45min	Usable:30min	Usable:50min	Usable:65min
	Full:60min	Full:35min	Full:65min	Full:80min

Model No.	EY0L82			
Electrical rating	See the rating plate on the bottom of the charger			
Weight	0.93kg			
Charging time	EY9L41	EY9L42	EY9L44	EY9L45
	Usable:35min	Usable:30min	Usable:40min	Usable:50min
	Full:50min	Full:35min	Full:55min	Full:60min

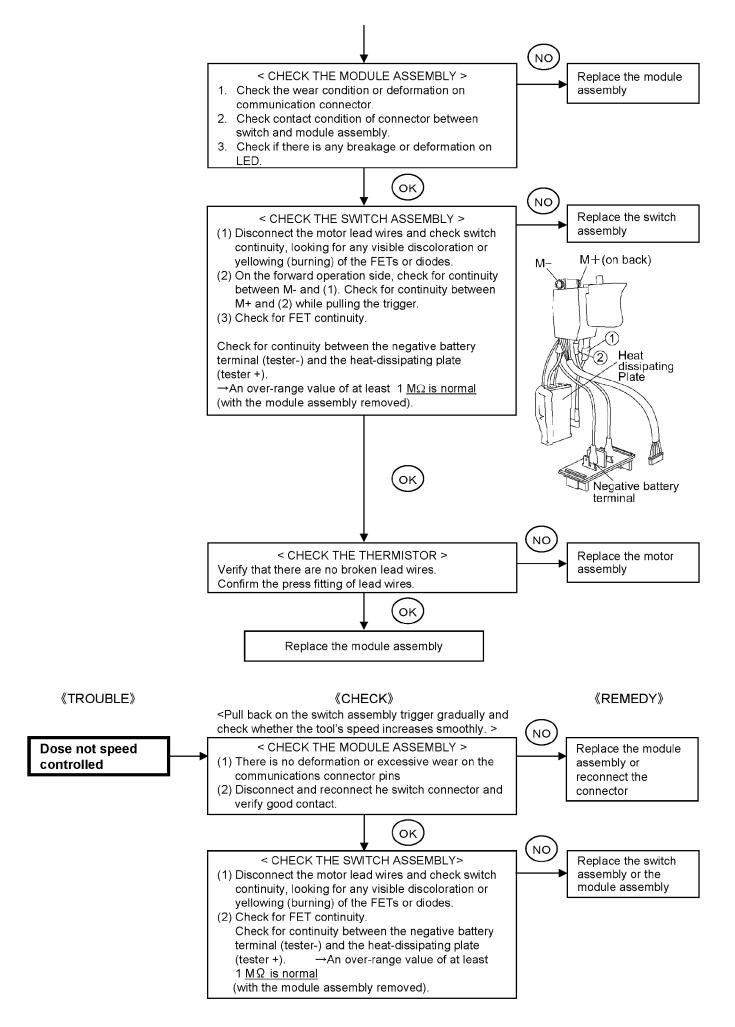
NOTE : This chart may include models that are not available in your area. Please refer to the latest general catalogue.

3 Troubleshooting Guide

3.1. Troubleshooting Guide



To next page



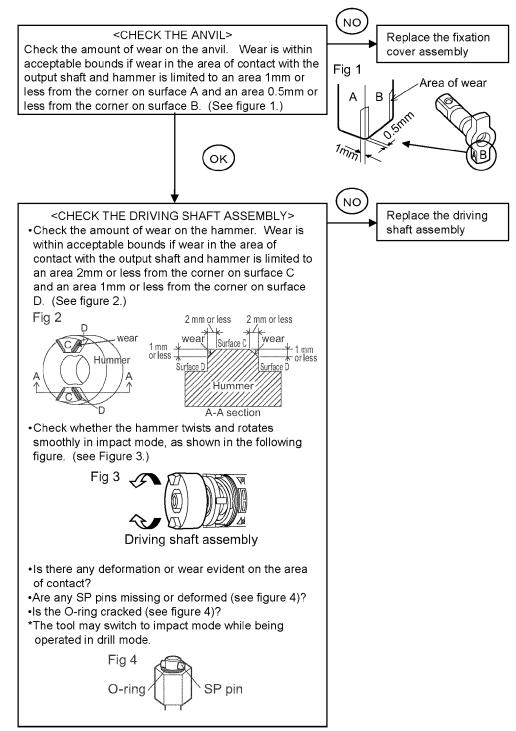
«TROUBLE»

The tool is not producing adequate impact force

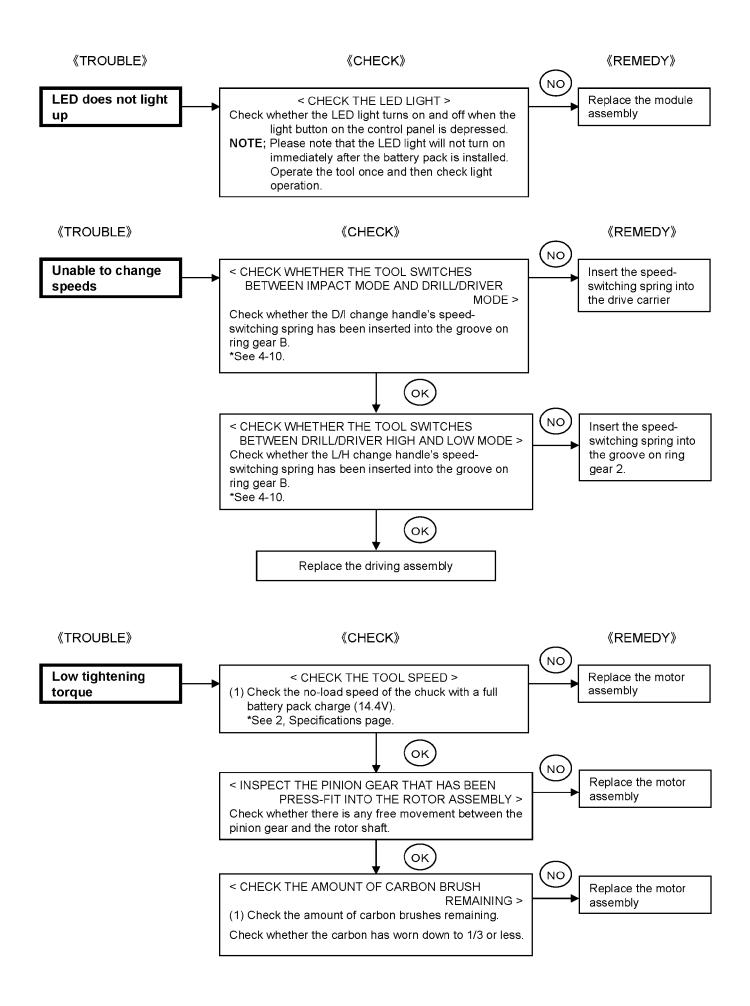
《CHECK》

《REMEDY》

*Before inspecting the anvil, inspect the battery pack and check the tool speed. Using a constant-voltage source, energize the tool with 14.4 V DC and pull back on the trigger with the impact indicator set to high mode. Check whether the tool speed is between 0 and 2,300 rpm. IF the speed falls outside this range, inspect the carbon brushes, rotor, and stator and start the inspection after setting the tool speed between 0 and 2,300 rpm.



To next page



3.2. Trial Operation (After Checking Troubleshooting Guide)

3.2.1. Assembly

- Confirm if there is no gap between housing A and B by pinching lead wires.
- Confirm all screws are tightened firmly.

3.2.2. Operation

- · Check whether the tool operates properly in both the forward and reveres directions.
- Check whether the LED light turns on and off each time the LED light on/off button is depressed.
- Check whether the tool speed increases continuously as the trigger is gradually engaged.
- Check whether the tool speed is normal after repair and reassembly.
- *Please refer to the specifications on page 2.
- Check whether the tool may become hot in a short operation.
- Set the clutch handle to the I and and check whether the tool rotates without any clutch operation.
- Pull the trigger all the way back and check whether the tool stops rotating immediately when it is released.
- · Rotate the clutch handle and check whether the clutch switches properly.
- · Check whether impact operation functions properly.

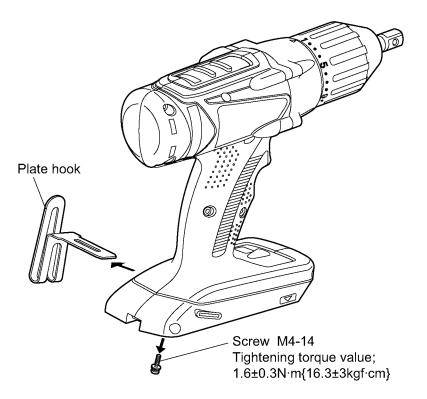
3.2.3. Integrity

- With the switch activated, shake the tool back and forth and up and down and verify that its sound does not change excessively.
- Check for the presence of any dirt or foreign matter from the repair process on the outside of the tool.

4 Disassembly and Assembly Instructions

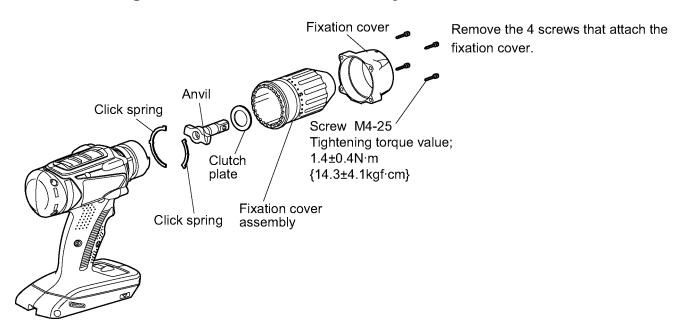
*To assemble the tool, start with 4-12 and proceed to 4-1

4.1. Removing the plate hook

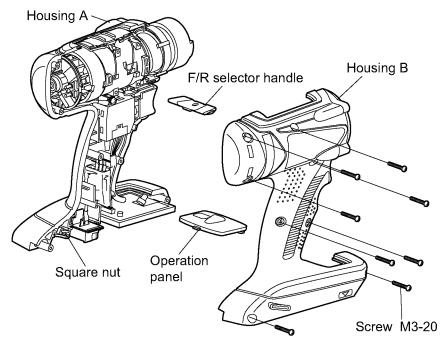


- 1. Remove the M4-14 screw.
- 2. Remove the plate hook.

4.2. Removing the Fixation cover assembly

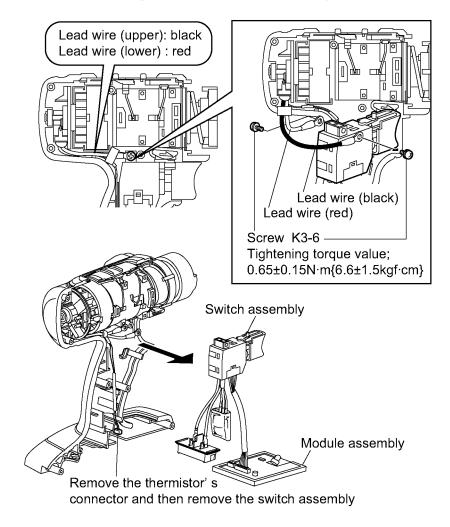


4.3. Removing the housing



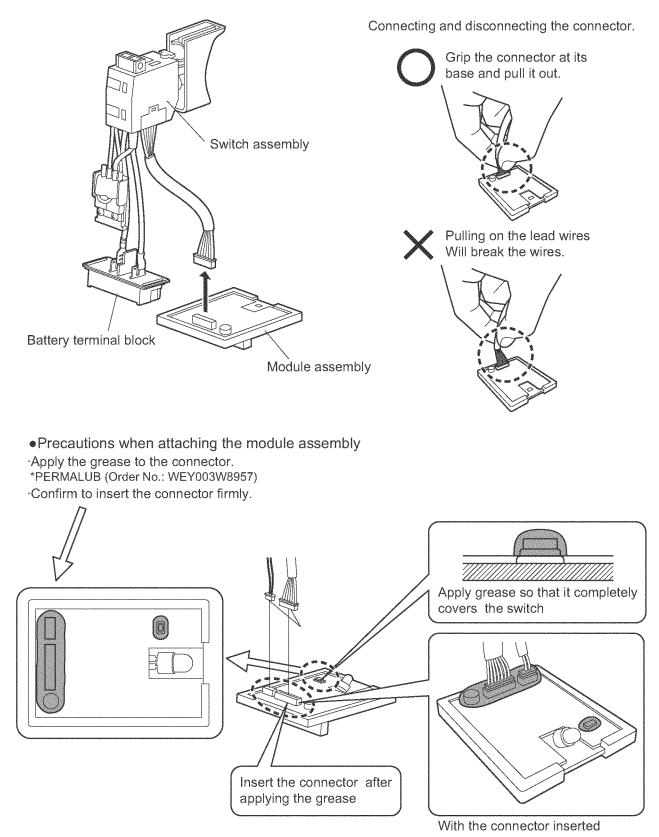
- 1. Remove eight screws.
- 2. Remove housing B.
- 3. Remove the F/R selector handle.
- 4. Remove the operation panel.
- 5. Remove the square nut.

4.4. Removing the switch assembly

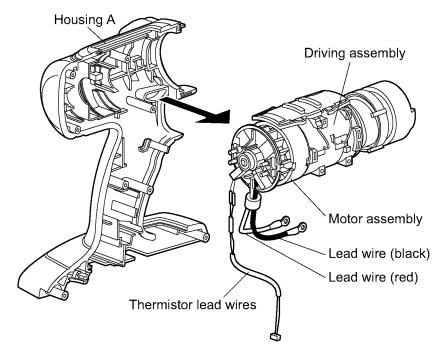


- 1.Remove the switch assembly from housing A and remove the 2 sems screws holding the carbon brush assembly' s lead wires in place on the switching assembly.
- 2.Remove the switch assembly while removing the switch assembly' s FET and battery terminal block from housing A.

4.5. Removing the Module assembly

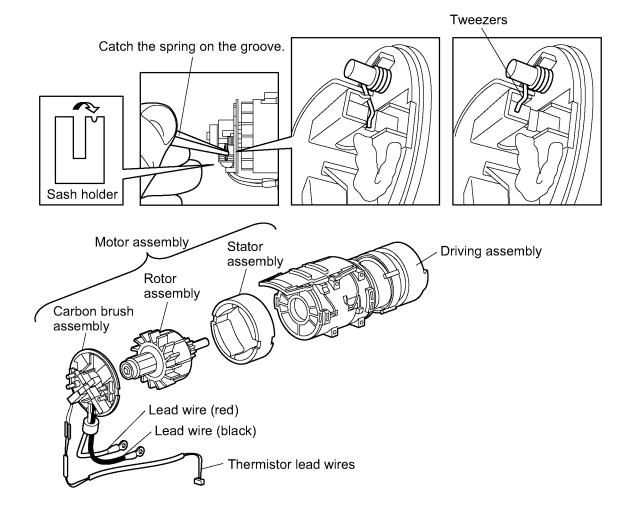


4.6. Removing the Driving assembly and Motor assembly

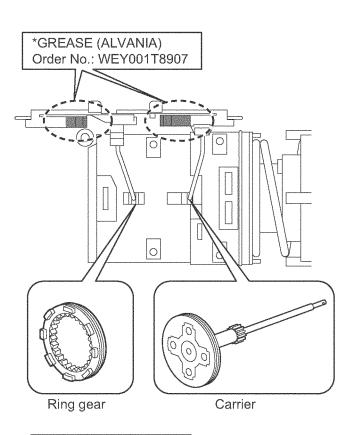


Remove the driving assembly from housing A

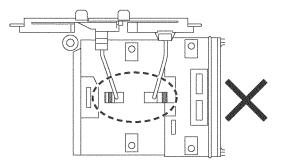
4.7. Removing the Carbon brush block



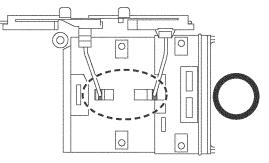
4.8. How to attach the D/I change handle and L/H change handle



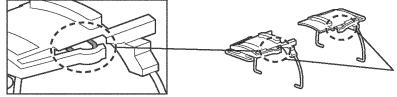
 The D/I change handle and L/H change handle' s speed-switching springs have become detached from the ring gear grooves.



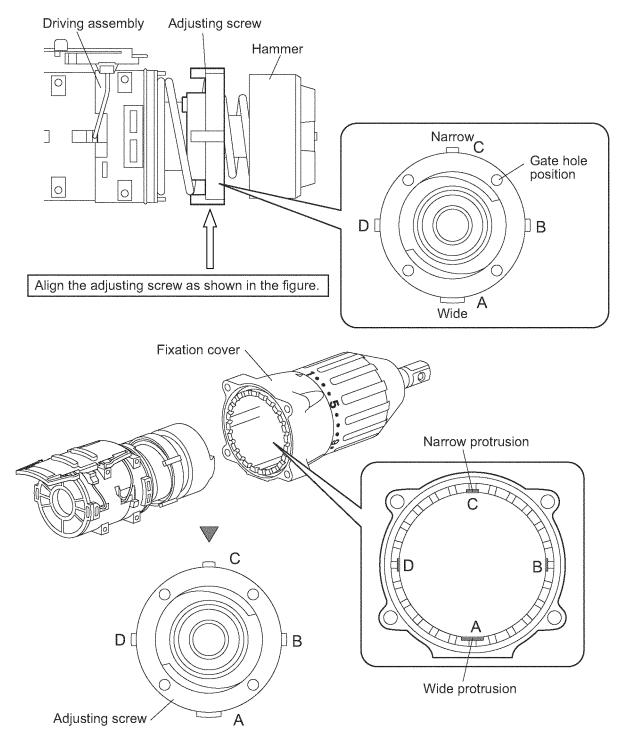
•The springs have been properly inserted into the ring grooves.



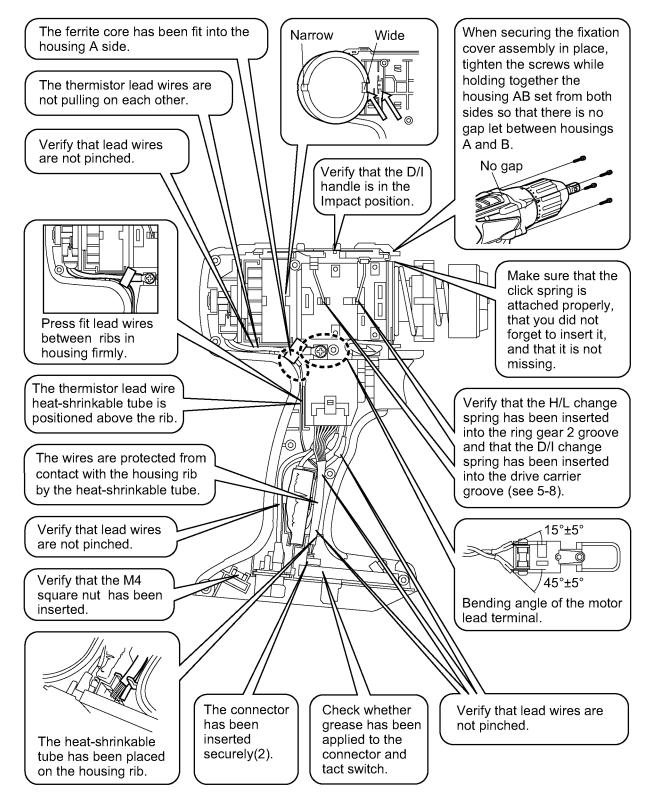
Check whether the I/D change handle and L/H change handle's hook springs have become detached.



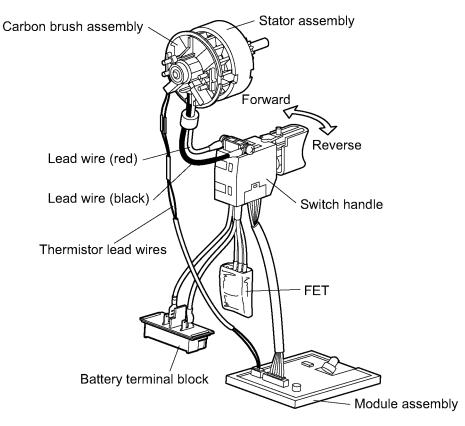
4.9. Tips for installing the driving cover assembly onto the driving assembly



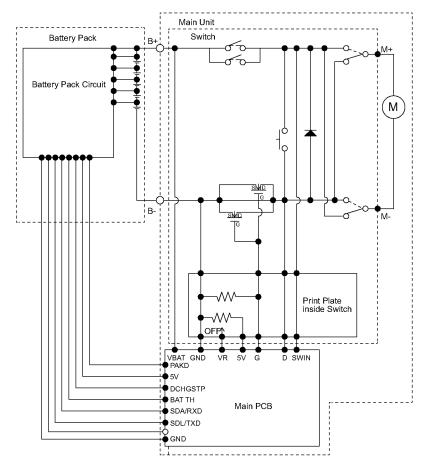
4.10. Wiring and Assembly Points



5 Wiring Connection Diagram

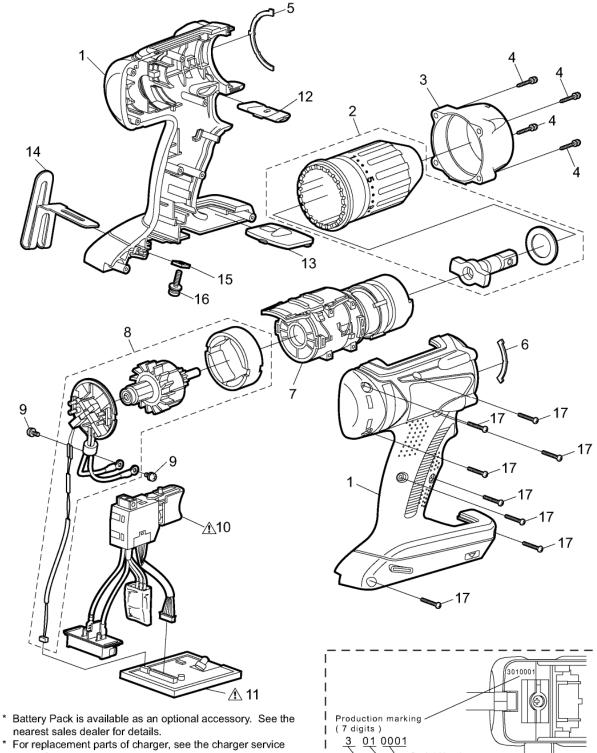


6 Schematic Diagram



7 Exploded View and Replacement Parts List

Model No. : EY7549 Exploded View



manual. Charger complete set is available as an optional accessory. See the nearest sales dealer for details.

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Serisl Number

Last digit of year

Month

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	WEY7549H7029	HOUSING AB SET	1	(for EUROPE)
	1	WEY7549H7020	HOUSING AB SET	1	(for OCEANIA)
	2	WEY7549K4058	FIXATION COVER ASSEMBLY	1	
	3	WEY7548S0277	FIXATION COVER	1	
	4	WEY7549K9038	TORX TAPPING SCREW	4	(4*25)
	5	WEY6631L0977	CLICK SPRING	1	
	6	WEY6505L0187	CLICK SPRING	1	
	7	WEY7549L4128	DRIVING ASSEMBLY	1	
	8	WEY7549L1108	MOTOR ASSEMBLY	1	
	9	WEY7441L6028	SCREW	2	(K3-6)
	10	WEY7549L2007	SWITCH ASSEMBLY	1	
	11	WEY7549L2128	MODULE ASSEMBLY	1	
	12	WEY7547H3247	F/R SELECTOR HANDLE	1	
	13	WEY7460K3958	OPERATION PANEL	1	
	14	WEY7543K3187	PLATE HOOK	1	
	15	WEY7441L6487	NUT	1	(M4)
	16	WEY7441K6217	SCREW	1	(4-14)
	17	WEY7441K9038	TAPPING SCREW	8	
	-	WEY9L40R2788	BATTERY PACK COVER	1	
	-	WEY7549K7019	TOOL CASE	1	
	-	WEY7549K8109	OPERATING INSTRUCTIONS	1	
	-	WEY001T8907	GREASE (ALVANIA)	1	
	-	WEY003W8957	GREASE (PERMALUB)	1	

Model No. : EY7549 Parts List