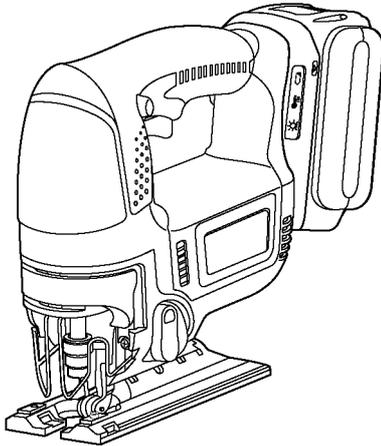


Service Manual

Cordless Jigsaw

Model No. **EY4550**

Europe



⚠ WARNING

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 **⚠** 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.

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Panasonic

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1 Warning

Caution:

- Pb free solder has a higher melting point than 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).

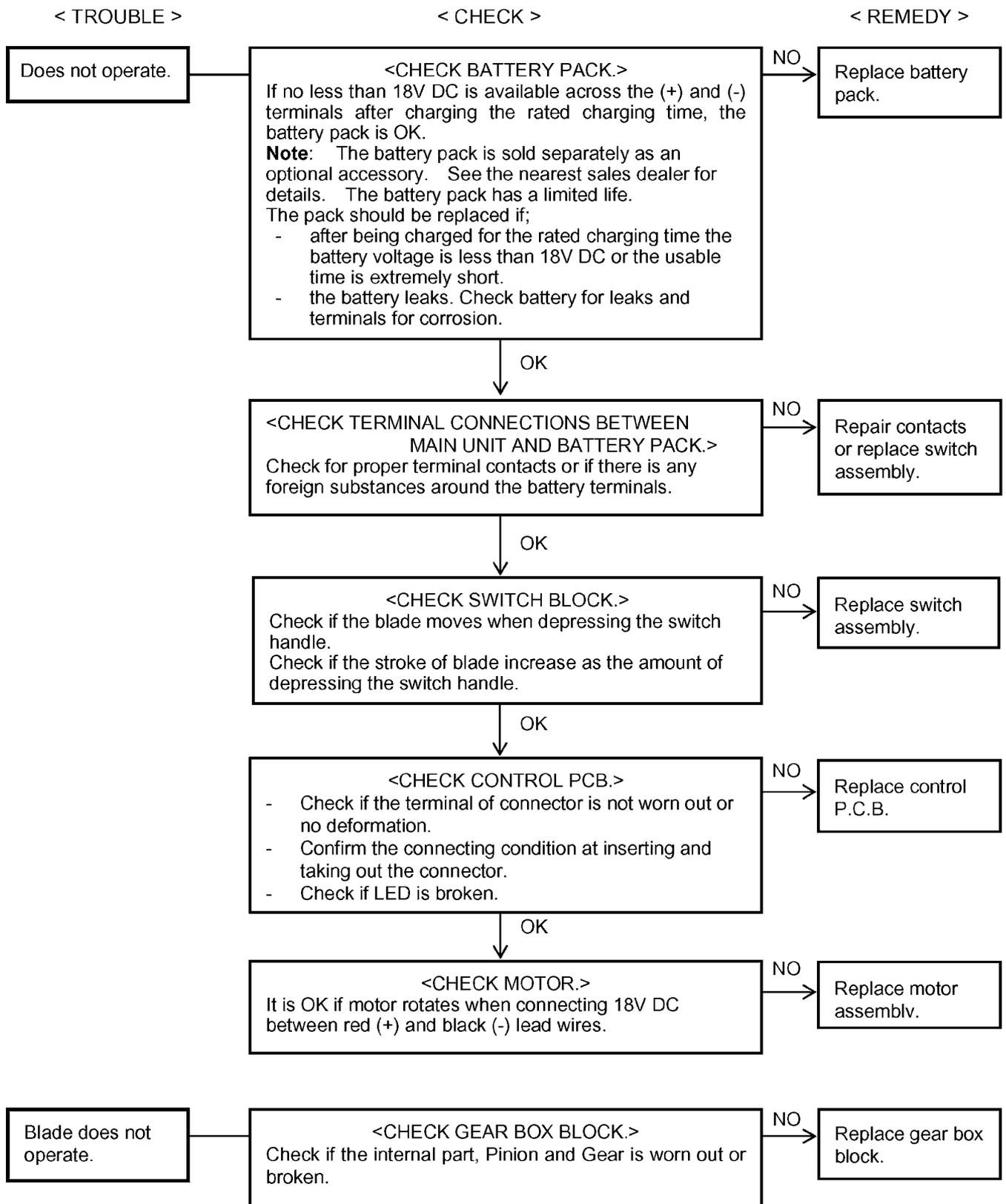
2 Specifications

MAIN UNIT

Motor		18V DC
Orbital stroke mode		4 position
Max thickness of mounting blade		1.6 mm (1/16")
Length of strokes		25 mm (1.0")
Strokes per minute		0 – 2500 / min
Maximum cutting capacities	Wood	65 mm (2-9/16")
	Mild steel	6 mm (1/4")
	Aluminum	10 mm (3/8")
Overall length (with battery pack)		292 mm (10-1/2")
Weight (with battery pack)		3.35 kg (7.5lbs.)

3 Troubleshooting Guide

(Refer to Wiring Connection Diagram)



3.1. Trial Operation (after checking Troubleshooting Guide.)

3.1.1. ASSEMBLY

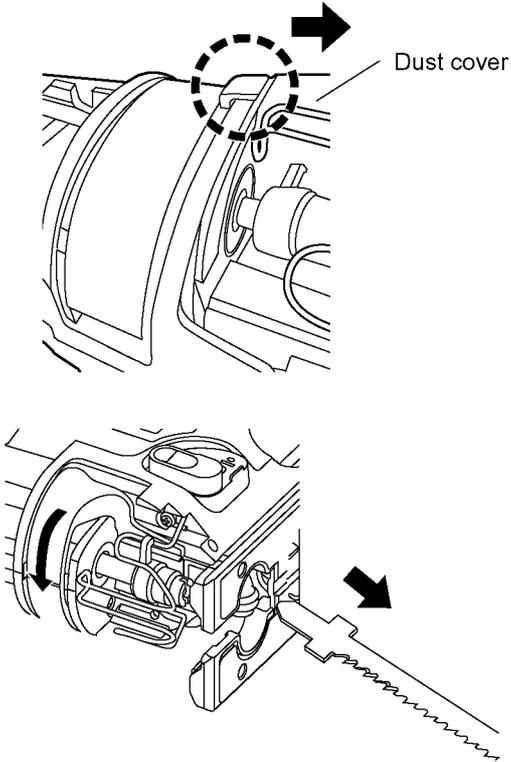
- Confirm if there is NO gap between Housing A and B by pinching the lead wires.
- Confirm if there is NO deformation on the battery terminals.
- Confirm all screws are tightened firmly.

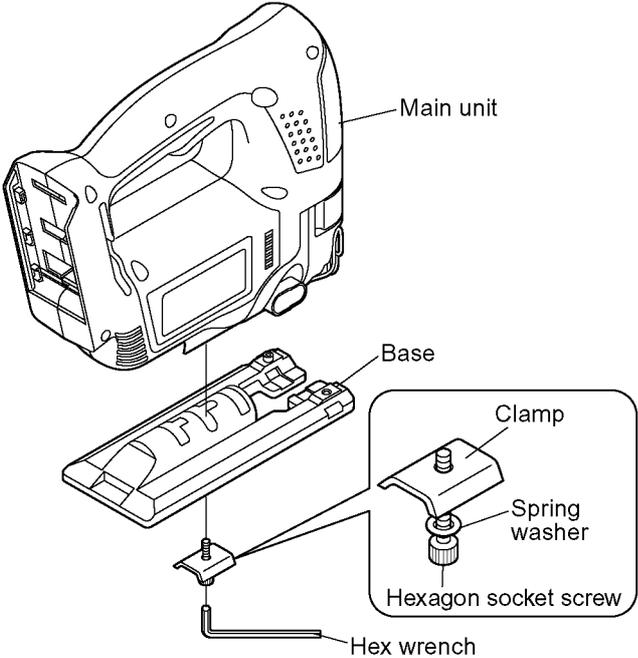
3.1.2. Operation

- Check if the switch turns ON and OFF smoothly.
- Check if the blade strokes properly.
- Cut concrete panel <(t) 12mm X (w) 300mm> as trial.
- Check if there is no metallic sound, abnormal sound or abnormal vibration.
- Check the speed control and braking.
- Confirm if the LED lights on.

4 Disassembly and Assembly Instructions

4.1. How to Disassemble the Blade.

Ref. No. 1A	Procedure 1A	Removal of blade.
 <p data-bbox="655 405 774 427">Dust cover</p>		<p data-bbox="839 327 1054 349">Removal of blade.</p> <p data-bbox="839 353 1485 405">WARNING: To reduce the risk of injury, always remove battery pack before removing/installing the blade.</p> <ol data-bbox="839 409 1485 533" style="list-style-type: none"><li data-bbox="839 409 1209 432">1. Unhook and pull out the dust cover.<li data-bbox="839 436 1485 488">2. Wipe away any cutting dust from the blade and the blade clamp bracket.<li data-bbox="839 492 1209 515">3. Pull the blade Attach/Remove lever.<li data-bbox="839 519 1043 542">4. Pull out the blade. <p data-bbox="839 546 1374 598">CAUTION: Be careful to avoid cutting your hands on the blade.</p>

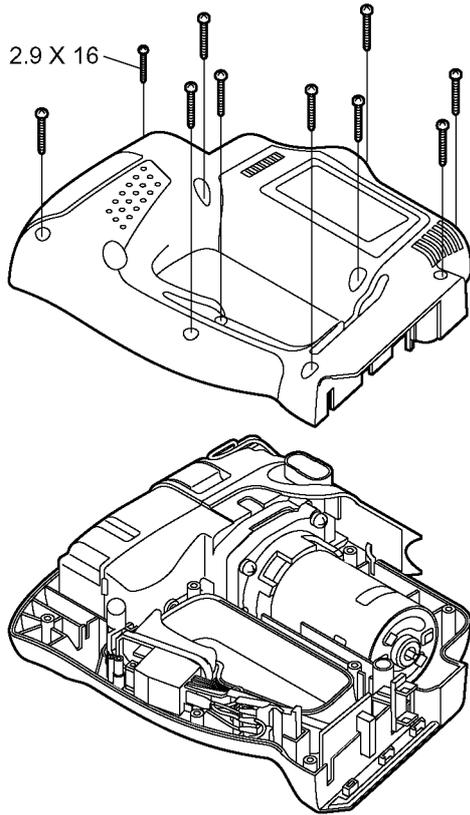
Ref. No. 1B	Procedure 1A → 1B	Removal of base.
 <p data-bbox="555 1373 660 1395">Main unit</p> <p data-bbox="544 1621 596 1644">Base</p> <p data-bbox="655 1682 724 1704">Clamp</p> <p data-bbox="667 1771 751 1823">Spring washer</p> <p data-bbox="544 1861 783 1883">Hexagon socket screw</p> <p data-bbox="507 1912 635 1935">Hex wrench</p>		<p data-bbox="839 1245 1031 1267">Removal of base.</p> <ol data-bbox="839 1272 1485 1373" style="list-style-type: none"><li data-bbox="839 1272 1485 1346">1. Use the provided hex wrench to loosen the hexagon socket screw. NOTE: Keep the hex wrench in the storage slot on the tool's body when not using it.<li data-bbox="839 1350 1278 1373">2. Remove the spring washer, clamp and base.

Ref. No. 1C

Procedure 1A → 1B → 1C

Removal of the housing.

1. Loosen 1 housing screw (2.9X16).
2. Loosen 9 housing screw (4X16).
3. Hold the housing A and take the housing B up vertically.



Ref. No. 1D

Procedure 1A → 1B → 1C → 1D

Removal of driving assembly.

1. Take out the driving assembly together with the switch assembly.
2. Loosen 4 screws to disassemble the motor assembly.

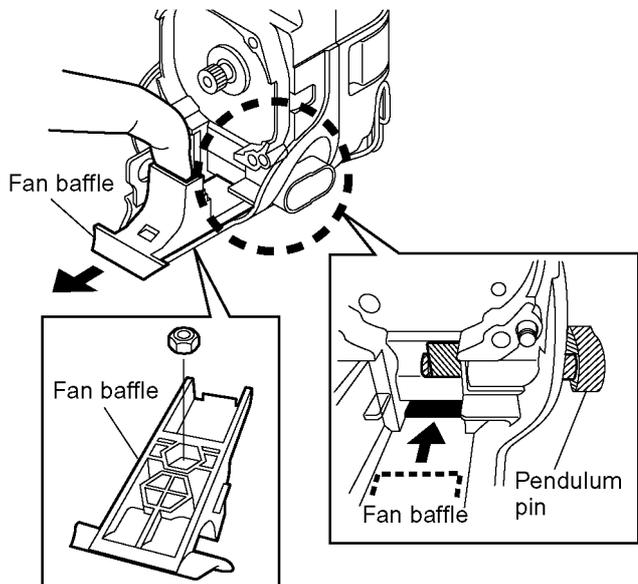
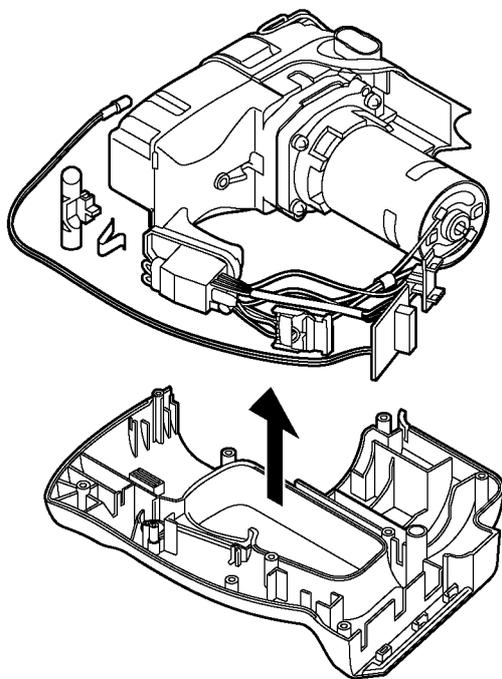
(for reassembly)
If the fan baffle is pulled out;

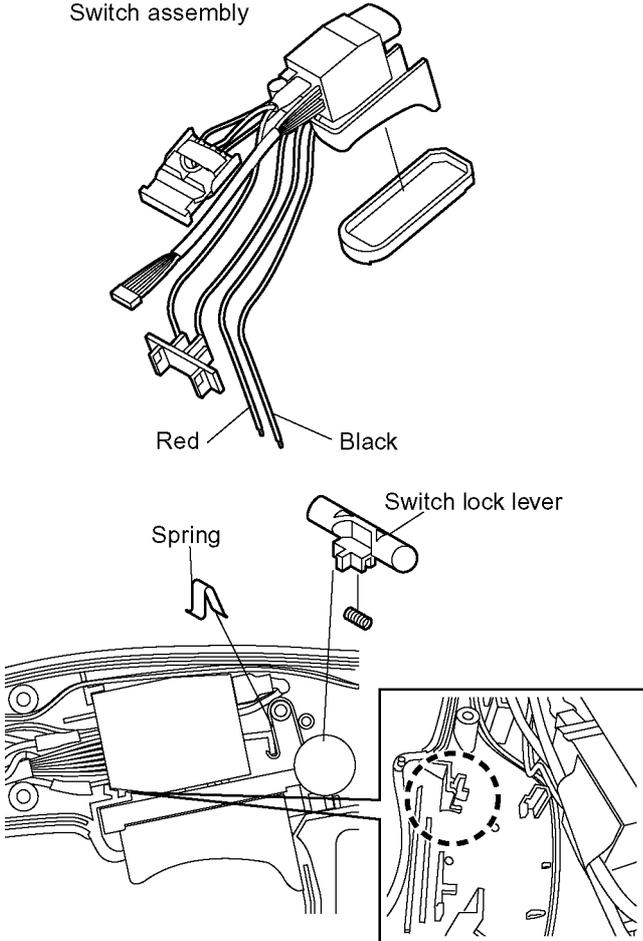
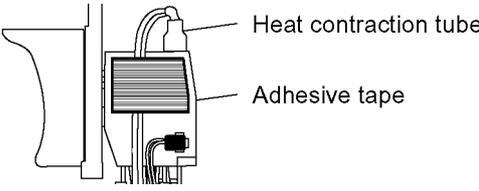
NOTE:

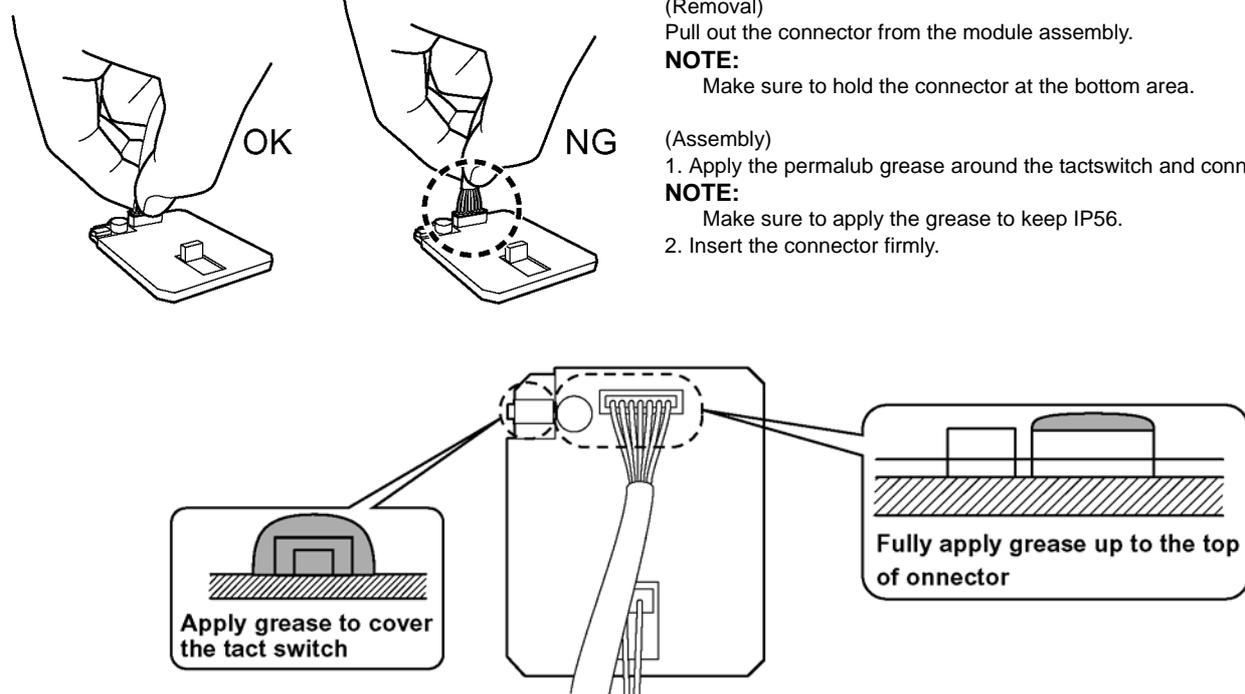
Make sure to attach the fan baffle otherwise the pendulum pin may not work.

NOTE:

Make sure to attach the hexagon nut on the rear side of fan baffle.



Ref. No. 1E	Procedure 1A → 1B → 1C → 1D → 1E	Removal of the switch.
<p>Switch assembly</p>  <p>Red</p> <p>Black</p> <p>Spring</p> <p>Switch lock lever</p>		<p>1. Pull out the lead wires from the pressure terminal.</p> <p>(for reassembly)</p> <p>1. Connect the motor lead wires (black and red) with the heat contraction tube.</p> <p>NOTE: Make sure to attach the adhesive tape to fix the lead wires.</p> <p>NOTE: Make sure to place the switch without pinching the lead wires over the rib of housing.</p>  <p>Heat contraction tube</p> <p>Adhesive tape</p>

Ref. No. 1F	Procedure 1A → 1B → 1C → 1D → 1E → 1F	Removal of control PCB.
 <p>OK</p> <p>NG</p> <p>Apply grease to cover the tact switch</p> <p>Fully apply grease up to the top of onnector</p>		<p>(Removal)</p> <p>Pull out the connector from the module assembly.</p> <p>NOTE: Make sure to hold the connector at the bottom area.</p> <p>(Assembly)</p> <p>1. Apply the permalub grease around the tactswitch and connectors.</p> <p>NOTE: Make sure to apply the grease to keep IP56.</p> <p>2. Insert the connector firmly.</p>

Ref. No. 1G

Procedure 1A → 1B → 1C → 1D → 1E → 1F → 1G

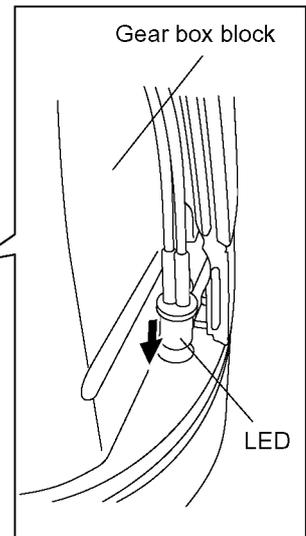
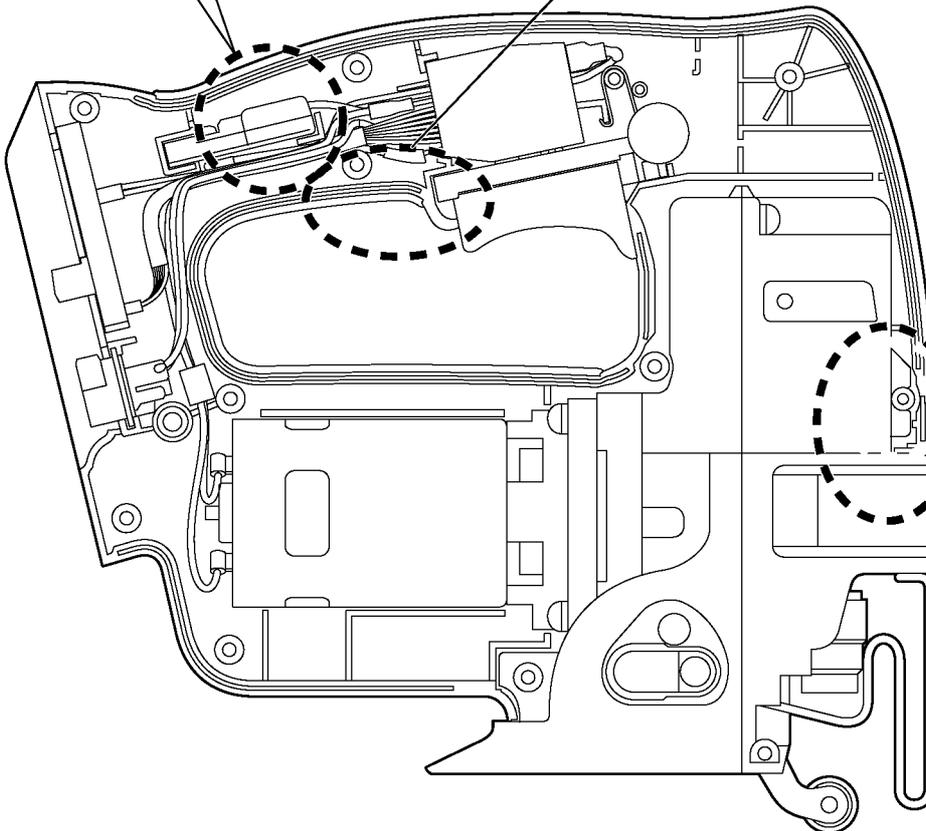
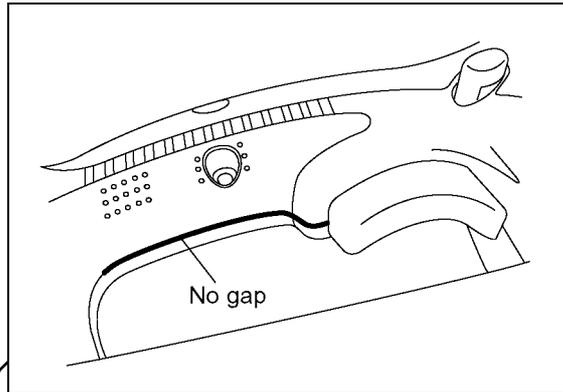
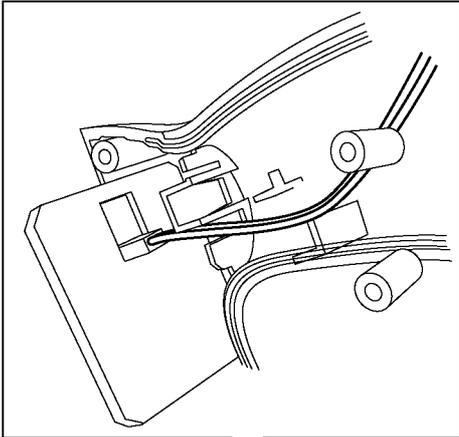
Assembly of main unit.

1. Press fit the lead wire firmly.
2. Insert the LED into the hole of gear box block until all the way back.

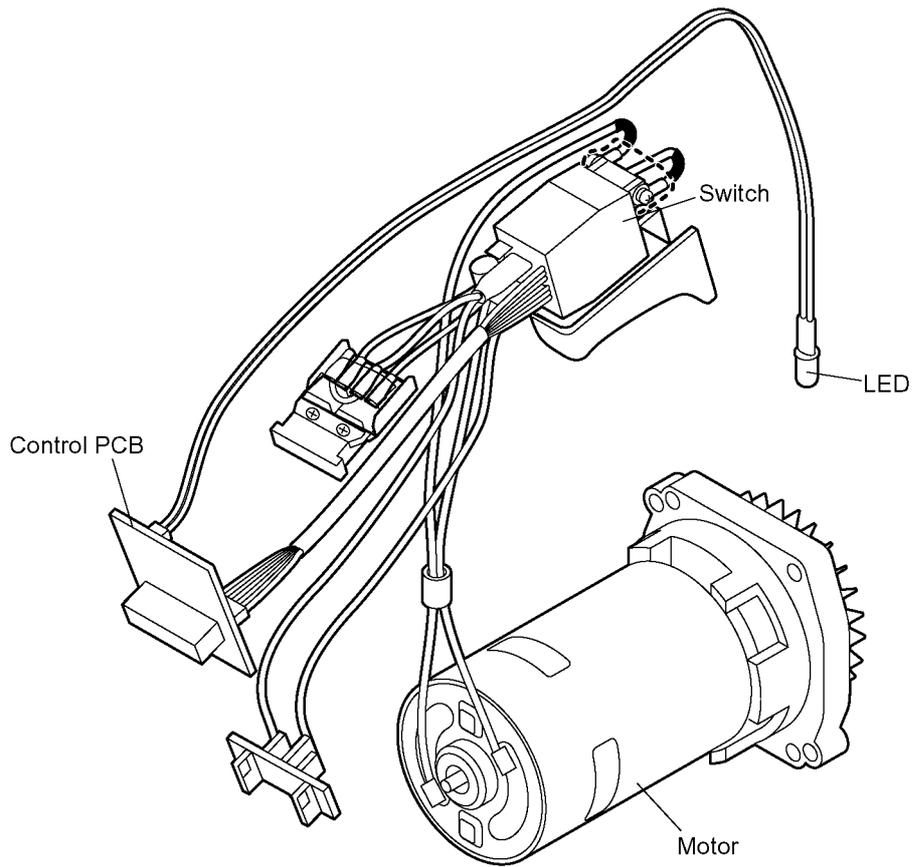
NOTE:

Make sure the lead wires are not pulled back when placing them in the housing rib.

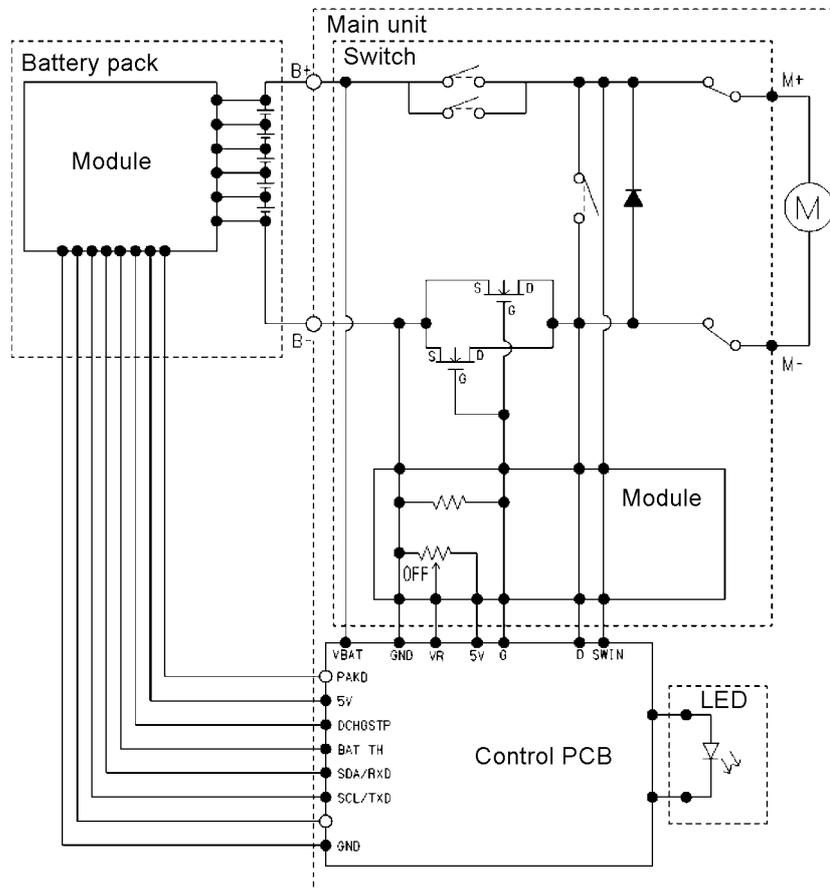
3. Place the LED lead wires properly.
If failure to do, it may short-circuited with the radiating plate.
4. Close the housing A and B.



5 Wiring Connection Diagram

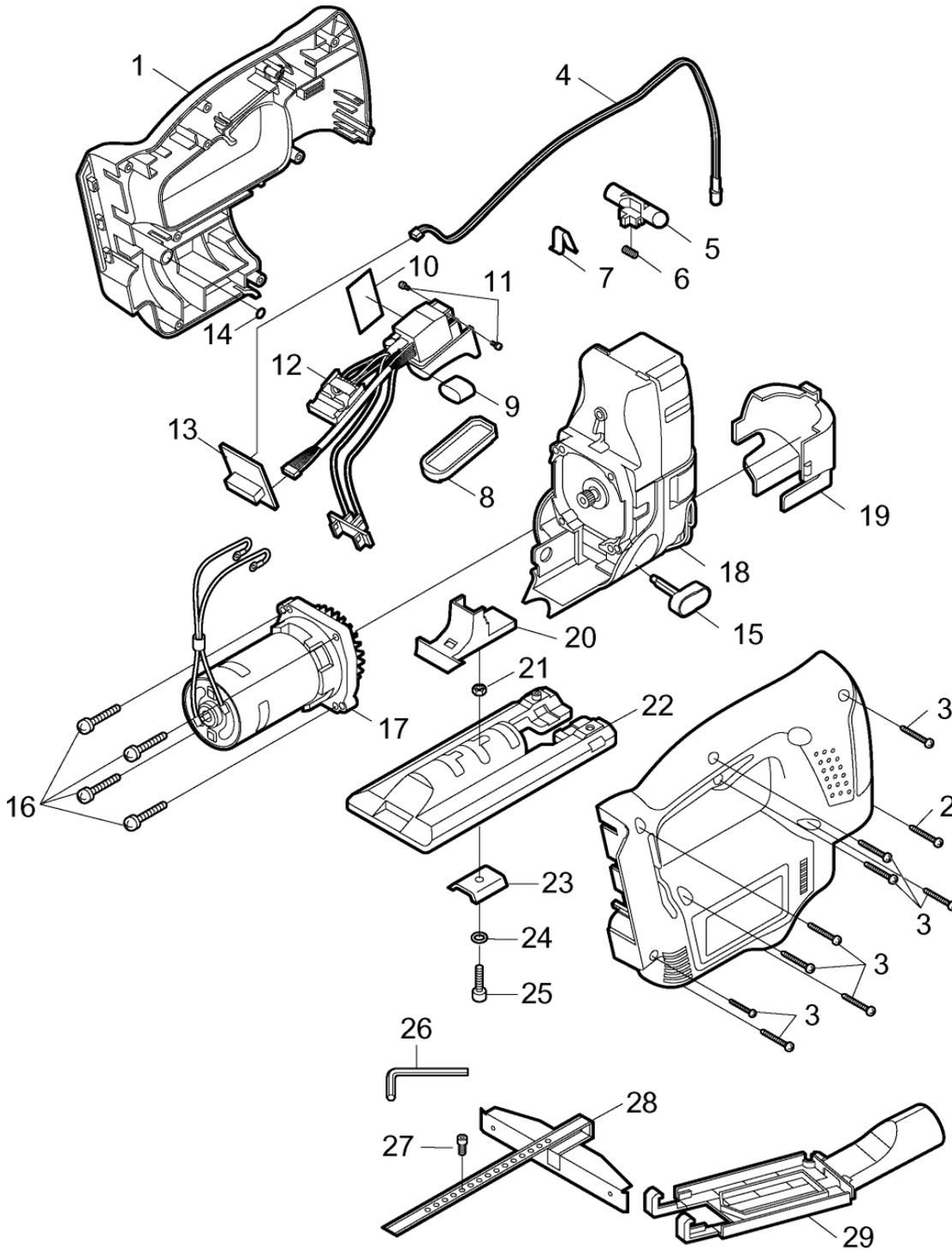


6 Schematic Diagram



7 Exploded View and Replacement Parts List

Model No. : EY4550 Exploded View



Model No. : EY4550 Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	WEY4550K3078	HOUSING AB SET	1	
	2	WEY4550K9068	TAPPING SCREW	1	(2.9X16)
	3	WEY4550K9138	TAPPING SCREW	9	(4X16), (9PCS/PK)
	4	WEY4550L2338	LED ASSEMBLY	1	
	5	WEY4550H3248	SWITCH LOCK LEVER	1	
	6	WEY4550L0178	SPRING	1	
	7	WEY4550L0168	PLATE SPRING	1	
	8	WEY4550L0578	SLIDE FRAME	1	
	9	WEY4550L0608	HEAT CONTRACTION TUBE	1	
	10	WEY4550W8398	ADHESIVE TAPE	1	(1 roll)
	11	WEY4550L6038	SCREW	2	(M3X6), (2PCS/PK)
	12	WEY4550K2008	SWITCH ASSEMBLY	1	
	13	WEY4550L2128	CONTROL PCB	1	
	14	WEY4550L0968	O-RING	1	
	15	WEY4550H1558	BLOWING LEVER	1	
	16	WEY4550L6258	PAN HEAD SCREW WITH WASHER	4	(M4X20), (4PCS/PK)
	17	WEY4550L1008	MOTOR ASSEMBLY	1	
	18	WEY4550L1458	GEAR CASE BLOCK	1	
	19	WEY4550X3108	DUST COVER	1	
	20	WEY4550L0228	LEVER FIXING BRACKET	1	
	21	WEY4550K6378	HEXAGON NUT	1	(M5)
	22	WEY4550S1898	BASE ASSEMBLY	1	
	23	WEY4550K0258	CLAMP	1	
	24	WEY4550L6198	SPRING WASHER	1	
	25	WEY4550K6138	HEXAGON SOCKET SCREW	1	(M5X16)
	26	WEY4550K7868	HEX WRENCH	1	
	27	WEY4550K6128	HEXAGON SOCKET SCREW	1	(M5X10)
	28	WEY4550K7728	RIP FENCE	1	
	29	WEY4550K7698	DUST ADAPTOR	1	
	-	WEY003W8957	GREASE (PERMALUB)	1	
	-	WEY4550K8108	OPERATING INSTRUCTIONS	1	