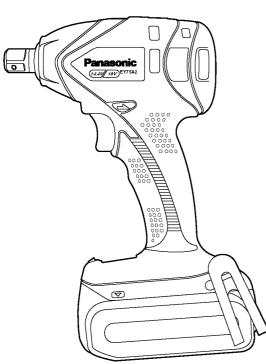
Service Manual Cordless Impact Driver

Model No. EY75A2

Europe Oceania



\land 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 \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	7
5 Wiring Connection Diagram	12
6 Schematic Diagram	12
7 Exploded View and Replacement Parts List	13



PAGE

© Panasonic Eco Solutions Power Tools Co., Ltd. 2012. All rights reserved. Unauthorized copying and distribution is a violation of law.

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.		EY75A2		
Motor voltage		14.4V DC	18V DC	
	Soft mode	0~1000min ⁻¹		
No load speed	Medium mode	0~1400min ⁻¹		
	Hard mode	0∼2300min⁻¹		
Maximum torque		200N-m	205N-m	
Impact per minute	Soft mode	0~2000rpm ⁻¹		
	Medium mode	0~2800rpm ⁻¹		
	Hard mode	0~3500min ⁻¹		
Overall length		155mm		
Weight(with battery pack:EY9L44)		-	-	
Weight(with battery pack:EY9L45)		-	-	
Weight(with battery pack:EY9L50)		1.55kg	1.65kg	
Weight (with battery pack:EY9L51)		1.55kg	1.65kg	
Noise, Vibration		Typical Noise Emission Values according to EN 60745; Sound Pressure Level (L _P A); 96 dB (A) Sound Power Level(L _{WA}); 109 dB (re1pw) Uncertainty (K): 3 dB Typical Vibration according to EN 60745; 17.0 m/s ² (Impact tightening of fasteners of the maximum capacity of the tool) Uncertainty (K): 1.5 m/s ²		

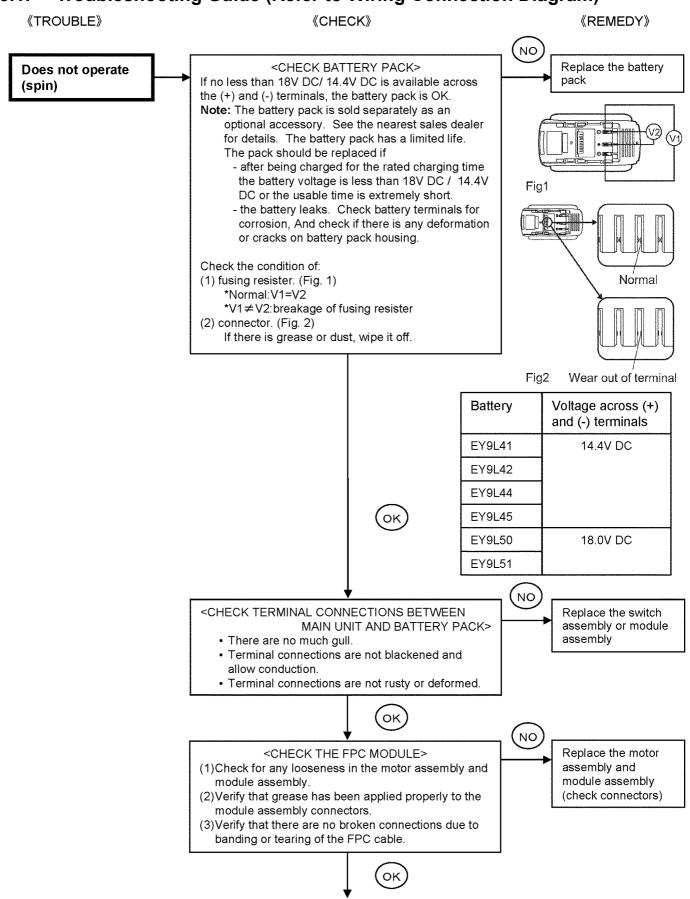
Battery Pack

Model No.	EY9L41	EY9L42	EY9L44	EY9L45	EY9L50	EY9L51
Storage battery	Li-ion Battery					
Motor Voltage	14.4V DC (3.6V x 4cells)		14.4V DC (3.6V x 8cells)		18V DC (3.6V x 10cells)	

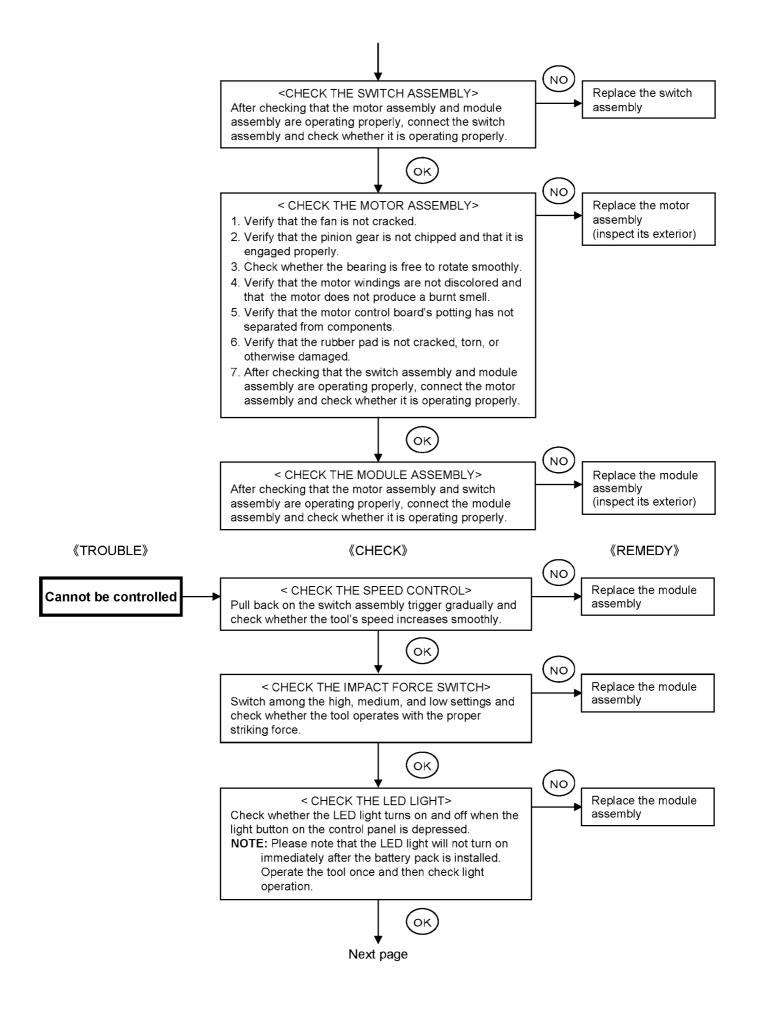
NOTE : This chart may include models that are not available in your area. Please refer to the latest general catalogue.

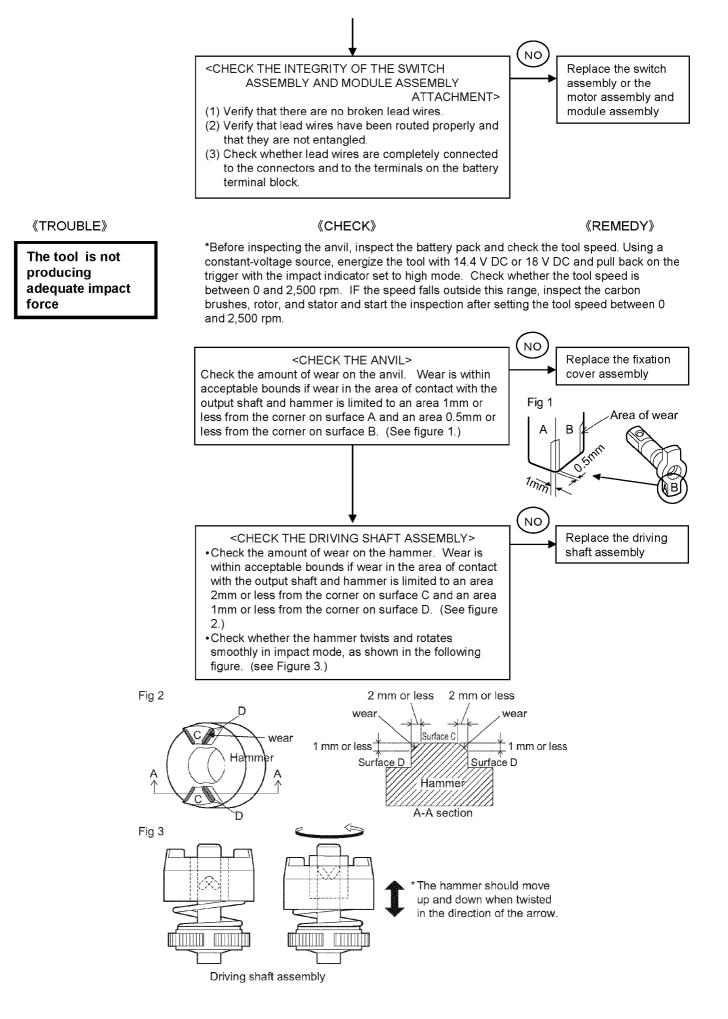
3 Troubleshooting Guide

3.1. Troubleshooting Guide (Refer to Wiring Connection Diagram)









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.
- There is no dust or deformation on battery terminals.
- Confirm if there is no dirt when repairing.

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. High mode: 0 to 2,500 rpm Medium mode: 0 to 1,400 rpm Low mode: 0 to 1,000 rpm
- Check whether impact operation functions properly. Check whether impact operation functions properly.
 For an easy test of impact operation, check whether you can drill a universal screw (\$\phi4.5X75mm\$) into a substrate Douglas fir within about 5 seconds.

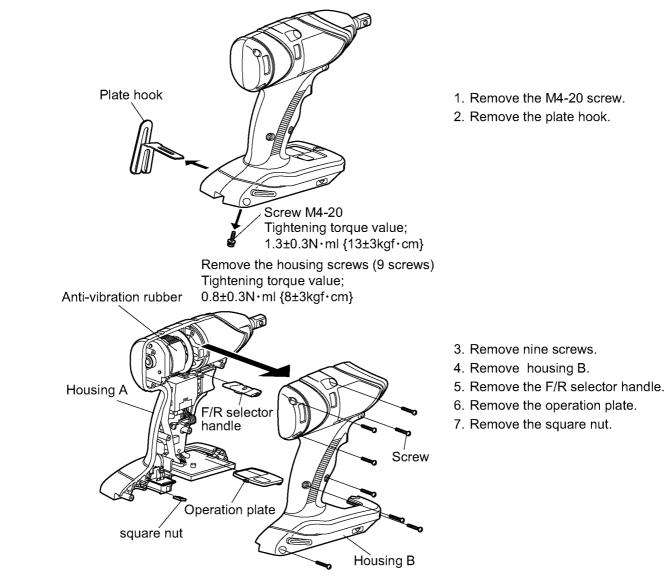
3.2.3. Integrity

- 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.

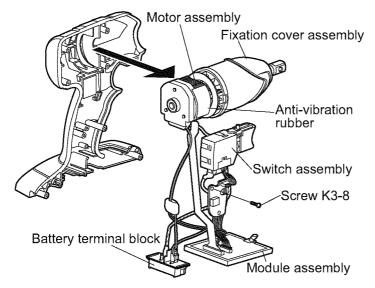
4 Disassembly and Assembly Instructions

*To assemble the tool, start with 4-6 and proceed to 4-1

4.1. Removing the Housing

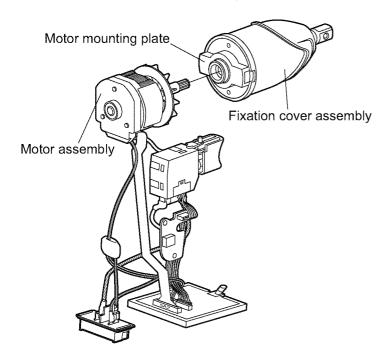


4.2. Removing the Assemblies



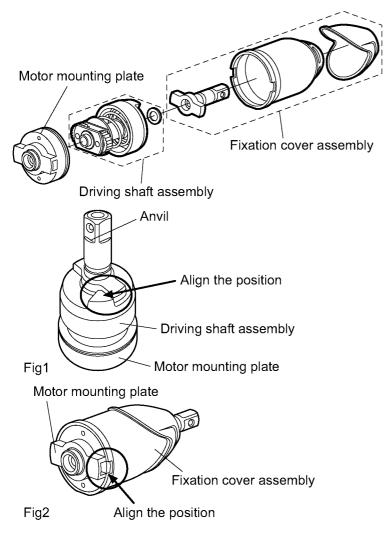
1. Remove the motor assembly, fixation cover assembly, switch assembly, and module assembly from housing A.

4.3. Removing the Motor Mounting Plate, Driving Shaft Assembly, and Fixation Cover Assembly from the Motor Assembly



1. Holding the motor assembly, remove the entire motor mounting plate, including the driving shaft assembly and the fixation cover assembly, from the motor assembly.

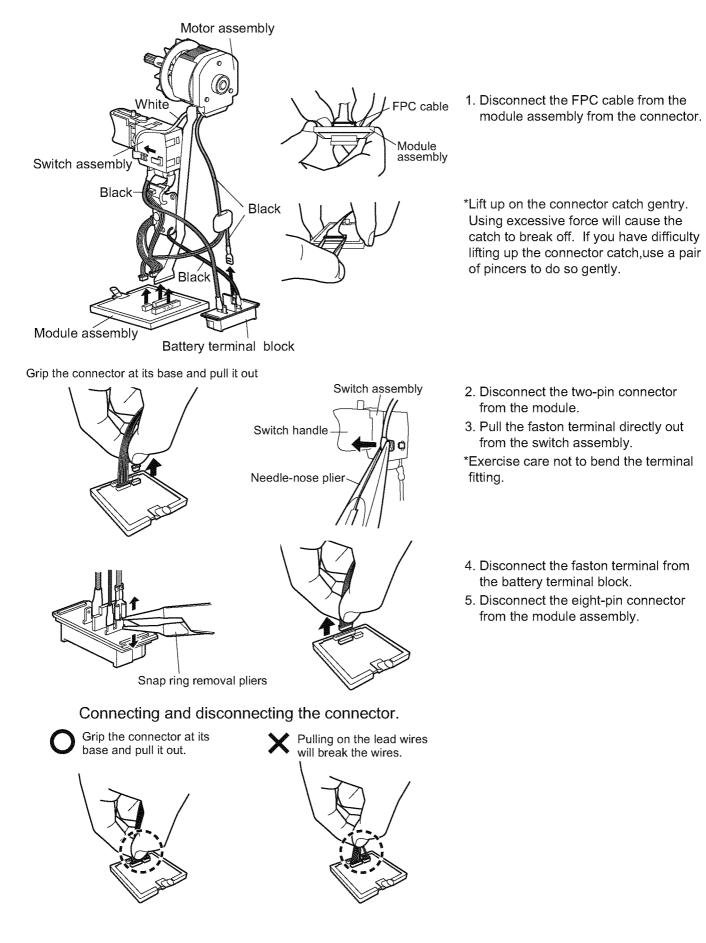
4.4. Removing the Fixation assembly, Driving shaft assembly, and Motor Mounting Plate



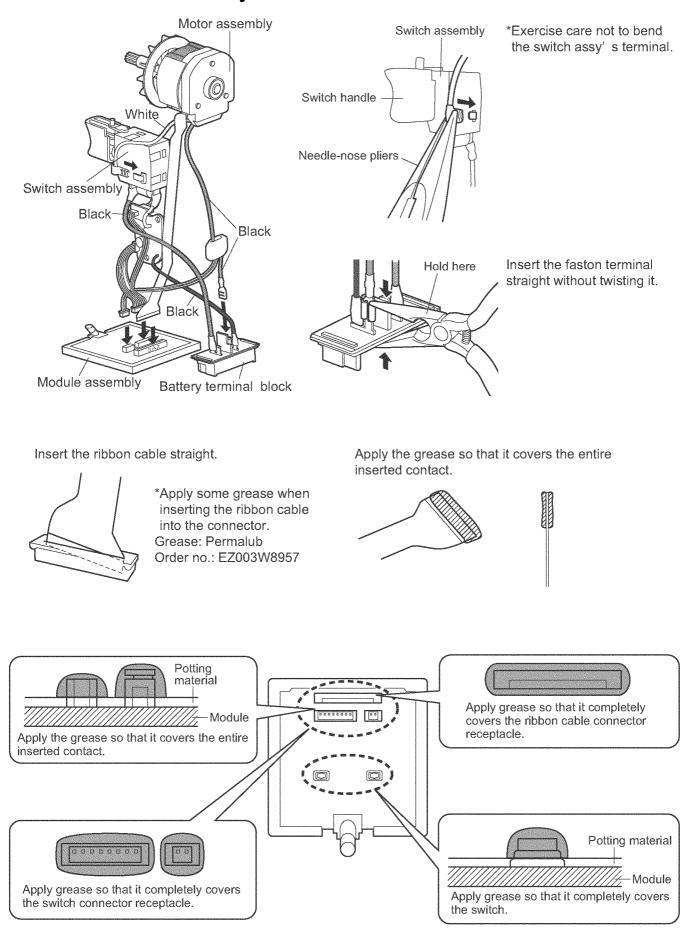
*Assembly precautions

- 1. Attach the driving shaft assembly to the motor mounting plate.
- 2. Place a washer on the driving shaft assy' s shaft.
- 3. Attach the anvil to the driving shaft assembly as shown in Figure 1.
- 4. Place the fixation cover over the motor mounting plate and insert it while rotating, taking care to align the position of the fixation cover with the motor mounting plate as shown in Figure 2.
- 5. Place the remaining parts on the anvil and hold them in place with spring C.

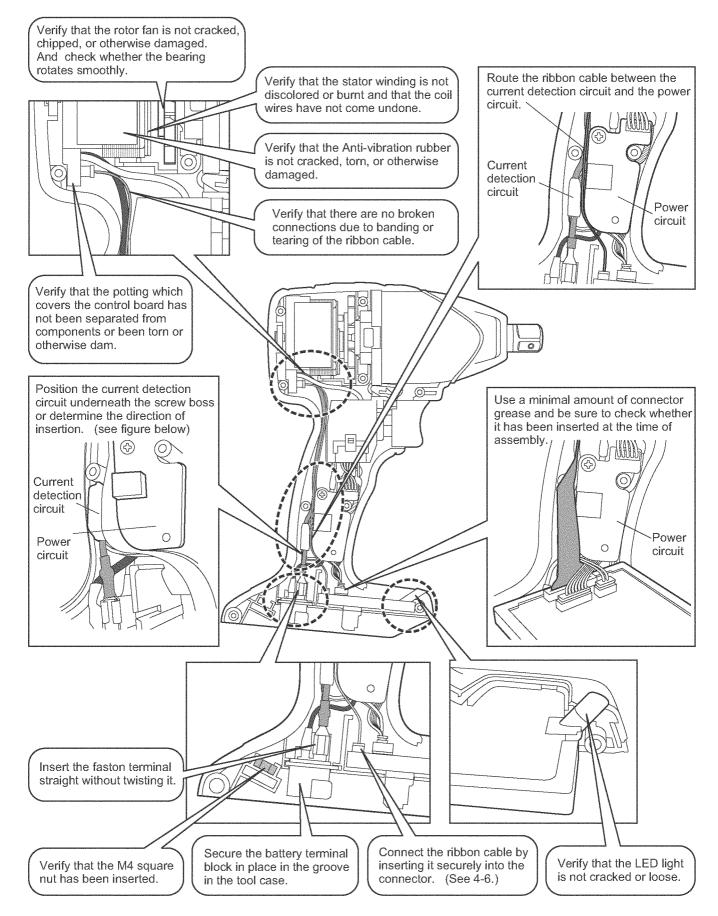
4.5. Removing the Motor Assembly, Switch Assembly, and Module assembly



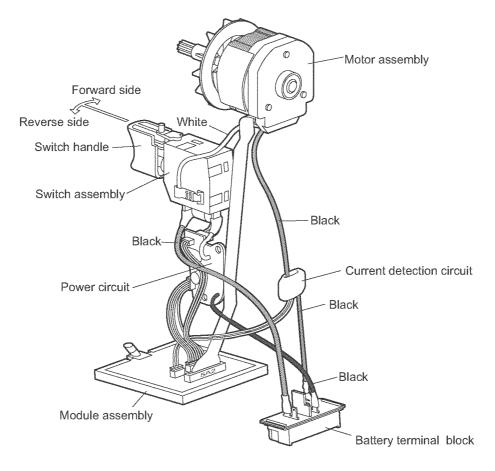
4.6. Precautions When Assembling the Motor Assembly, Switch Assembly, and Module Assembly



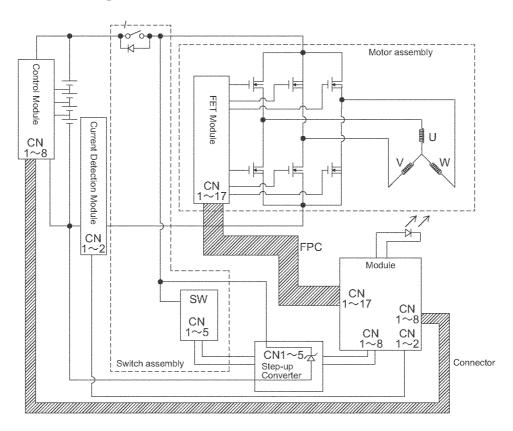
4.7. Wiring and Assembly Points



5 Wiring Connection Diagram

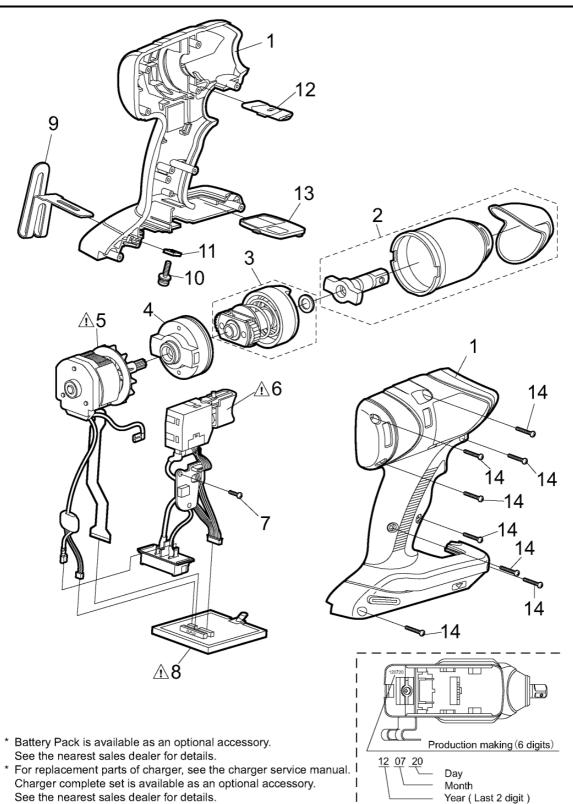


6 Schematic Diagram



7 Exploded View and Replacement Parts List

Model No. : EY75A2 Exploded View



Т

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	WEY75A2H3079	HOUSING AB SET	1	(for EUROPE)
	1	WEY75A2H3070	HOUSING AB SET	1	(for OCEANIA)
	2	WEY75A2K4058	FIXATION COVER ASSEMBLY	1	
	3	WEY75A2L1067	DRIVING SHAFT ASSEMBLY	1	
	4	WEY7546L0027	MOTOR MOUNTING PLATE ASSEMBLY	1	
	5	WEY75A1L1108	MOTOR ASSEMBLY	1	
	6	WEY75A1K2007	SWITCH ASSEMBLY	1	
	7	WEY0L81L9048	TAPPING SCREW	1	(K3*8)
	8	WEY75A2L2128	MODULE ASSEMBLY	1	
	9	WEY7543K3187	PLATE HOOK	1	
	10	WEY7441K6217	SEMS SCREW	1	(M4*14)
	11	WEY7441L6487	NUT	1	(M4)
	12	WEY7547H3247	F/R SELECTOR HANDLE	1	
	13	WEY7546K3338	OPERATION PLATE	1	
	14	WEY7441K9038	TORX TAPPING SCREW	9	(K3*20)
	-	WEY9L40R2788	BATTERY PACK COVER	1	
	-	WEY9644K7019	TOOL CASE	1	
	-	WEY75A1K8109	OPERATING INSTRUCTIONS	1	
	-	WEY003W8957	GREASE (PERMALUB)	1	
	-	WEY004X8967	GREASE (CALFOREX)	1	
	-	WEY002X8977	GREASE (DOUBREX)	1	

Model No. : EY75A2 Parts List