Service Manual

Cordless Rotary Hammer

EY6808

<Specifications>

HAMMER

Motor voltage Revolutions

Blows

Mass

Dimensions

: 12V DC

: 0 \sim 780 min $^{-1}$ (RPM) : 0 \sim 3,500 min $^{-1}$ (BPM)

: 2.8kg, 6.21bs.

including battery pack and

auxiliary handle

: $277(L) \times 85(W) \times 190(H)$ mm

 $10-29/32" \times 3-11/32" \times 7-31/64"$ in

BATTERY PACK

Storage battery

Battery voltage

: Ni-Cd battery

: 12V DC ($1.2V \times 10$ cells)

BATTERY CHARGER

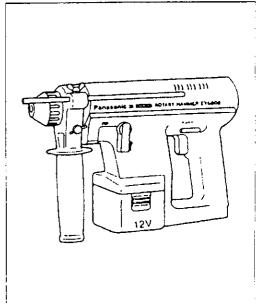
Input

Mass (Weight)

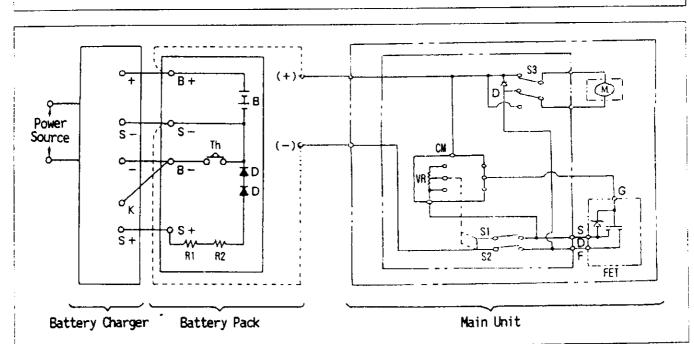
: 120V AC

: 0.66kg, 1.45lbs.

<Standard equipment>
Battery charger
Battery pack



SCHEMATIC DIAGRAM



Panasonic

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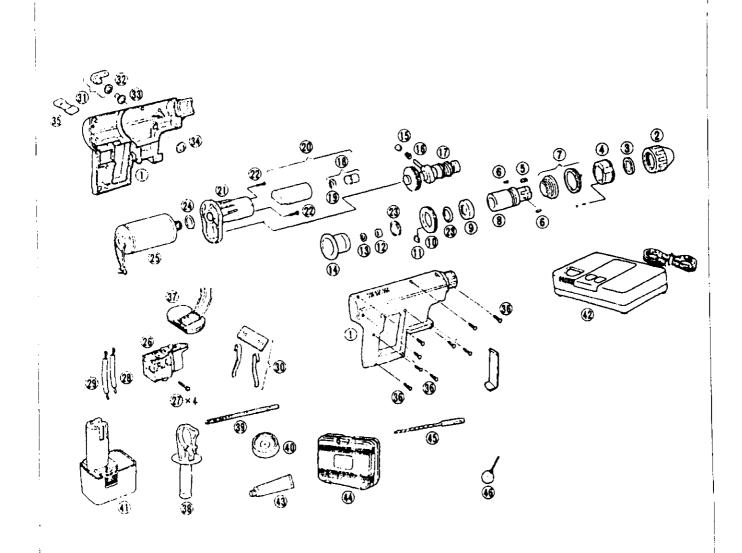
⚠ WARNING

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.

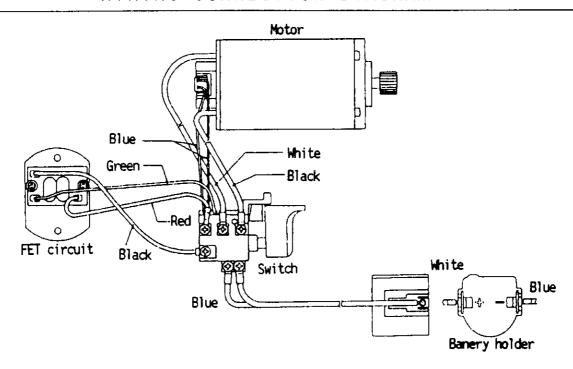
EXPLODED VIEW

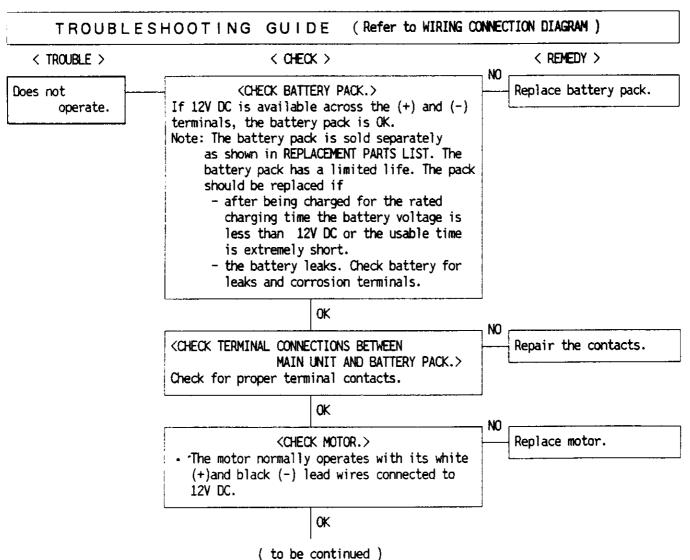


REPLACEMENT PARTS LIST

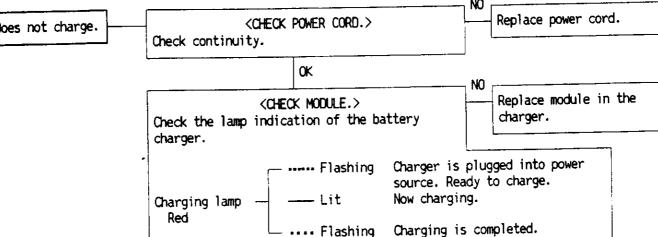
Ref No.	Parts No.	Parts Name & Descriptions	Per set	Remarks
Note: *A · · · available as an optional accessory				
*B only available as set				
ļ	EY6808K3079	HOUSING AB SET	1	
		CHUCK COVER	l	*C ICTW-20
3 4	EY6800B0417 EY6802K1377	STOP RING CHUCK CAM	Z	"C 1CIW-20
5	EY6802K1387	CHUCK KEY	1 1	
	EY531B0477	TRANSMISSION KEY	2	*C
7		CHUCK RING	í	C
	EY6800B1127	OUTPUT SHAFT BLOCK	ī	
	EY6800B4957	NEEDLE_BEARING	Ī	
		SPINDLE GEAR	1	
11	EY6800B1387	SPINDLE GEAR KEY	1	
12 13	EY6800B3537 EY6800B0997	STRIKER WASHER STRIKER CUSHION	1	
13	EY6800B0577	CLUTCH BUSH	1	
		UNIVERSAL JOINT	1	
		SPRING FOR UNIVERSAL JOINT	1	٠
17	EY6800B1137	INTERMEDIATE SHAFT	ī	
	EY6800B4627	HANDER	ī	
		O-RING	1	
		PISTON HAMMER BLOCK	1	
21 22	EY6800B4737 EY6800B6057	BASE PLATE SCREW FOR BASE PLATE	l	*C K4-16
23	EY6800B0437	SCREW FOR BASE FLATE STOP RING	2	*C ISTW-30
24	EY6800B0987	O-RING FOR MOTOR	1	C 131N 30
2 5		MOTOR	1	
26	EY6261Y2008	SWITCH	ī	
27		SCREW_FOR SWITCH	4	*C K3-5
		LEAD WIRE (+)	1	WHITE
29	EY6802L2977	LEAD WIRE (-)	ļ	BLUE
	EY6802K0067 EY6800H3248	BATTERY CONTACTOR SET HANNER/DRILL SELECTOR HANDLE	į 1	DEGE
	EY6800B0967	O-RING FOR SELECTOR HANDLE	1	
33	EY6800B0837	SWITCHING COLLAR	i	
34		STOP RING	i	STW-13
35	EY574H3248	FORWARD/REVERSE SELECTOR HANDLE	ī	
	EY6800B9447	HOUSING SCREW	8	*C K4-20
	EY6808L2108	FET CIRCUIT BOARD	1	• • • • • • • • • • • • • • • • • • • •
		SUPPORTER DEPTH CALCE	ļ	
	EY6810B7728 EY6808K0178	DEPTH GAUGE DUST PROOF PLATE	l	
	E10000K0178	BATTERY PACK	1 1	* A
42	EY0202	BATTERY CHARGER	1 1	*A *A
	EY6800B7919	GREASE	1	"M
44	EY9509	TOOL CASE	î	
45	EY531B7927	BIT	ī	ø6.5
46		SQUIRT	1	
_		SAFETY INSTRUCTIONS ODERATING INSTRUCTIONS	1	
_	EY6808K8110	OPERATING INSTRUCTIONS	1	

WIRING CONNECTION DIAGRAM





NO FET circuit block <CHECK FET CIRCUIT BLOCK.> When there is no replacement. Remove the FET circuit block and check the speed control. lead wire terminals. These terminals are open normal when there is an open circuit $(\infty \Omega)$ between the green and red lead wires, and between the green and black lead wires. OK. NO Contacts inside the <CHECK SWITCH BLOCK.> (See Fig. 1 & 2) switch block are Note: When check continuity of the switch, defective. Switch block remove all lead wires from switch block. replacement. * Check by switch depression amount. (a) When the switch handle is pulled approximately 3mm: Switch handle • There should be continuity between ③ • There should be no continuity between (2) and (4). (b) When the handle is pulled all the way: There should be continuity between ③ Switch and (4), and between (2) and (4). lever * Inspection of the forward / reverse selection switch. (See Fig. 1 & 2) (c) When the switch handle is not depressed : View of the switch • There should be 0Ω between 1 and 6from adove when the switch lever is set to the (A) Fig.1 • There should be 0Ω between 1 and 5when the switch lever is set to the (B) (d) When the switch handle is depressed all the way: With touching (-) terminal of Volt-Ohm meter to \bigcirc , there should be $\bigcirc \Omega$ between (4) and (5) when the switch lever is set to the (A) side. With touching (+) terminal of Volt-Ohm meter to 4, there should be 0Ω between 4 and 6 when the switch Fig.2 lever is set to the (B) side. NO Replace power cord. <CHECK POWER CORD.> Does not charge.



quickly

Battery pack is warm. Charging will begin when temperature of Standby lamp battery pack drops. Orange Charging is not possible. Flashing Clogged with dust or malfunction of the battery pack drops. Possibly foreign matter in the charger's battery pack socket, or a malfunction of the battery pack.

DISASSEMBLY/ASSEMBLY METHOD

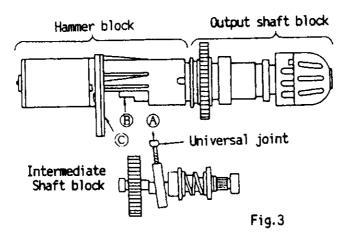
(Body Block) (See Fig. 3)

. After housings A and B are removed, the driver's internal mechanism can be disassembled into several blocks.

• Reassembly should be done block-by block, in the order of hammer block, output shaft block,

and intermediate shaft block.

 After having assembled the out put shaft block and hammer block into the housing, assemble the intermediate shaft block by first inserting its universal joint (A) into slot (B) in the hammer block, then fitting the shaft block into the bearing hole (C).



(See Fig. 4) (Output shaft block)

1. To remove the chuck cover, insert a standard screwdriver into the clearance between the cover and chuck ring and pry the cover off.

2. The chuck cam can be pulled out by removing the chuck cam stop ring.

3. Remove 2 transmission keys and separate the chuck cover.

4. When removing the clutch bush, notice the striker cushion and striker washer in it. When reassembling the bushing, be sure to replace the striker cushion first.

(Intermediate shaft block) (See Fig. 5)

1. The flexible joint and flexible joint spring can be removed from the intermediate shaft block. Note: This block serves in switching the tool from hammer to drill and vice versa.

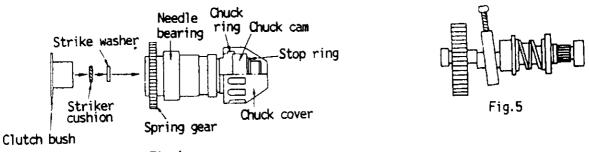


Fig.4

(Hammer block) (See Fig. 6)

1. Remove 2 motor screws and separate the hammer block from motor.

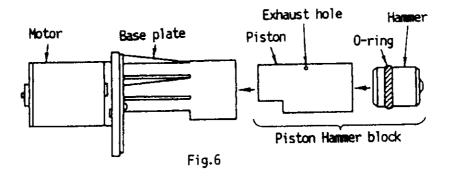
2. Remove piston and hammer block from base plate. When inserting the hammer into the piston, make sure that its orientation is correct.

Note: To take out the hammer block from the piston, clean around the exhaust hole.

Note: In particular, the hammer block's base plate, piston, and hammer require adequate greasing as they are subject to heating from compressed air.

Note: Air compressed by the piston drives hammer. Take care to protect the base plate, piston,

and hammer from contamination by dust.



ASSEMBLY INSTRUCTIONS

- Check the direction of the chuck spring with setting (B) part upward.
 Press and wring the spring into the chuck ring.
- ② Insert the chuck ring block into the output shaft block with adjusting the (A) part of spring to (A') part of output shaft block.
- 3 Put the transmission key right and left side of the output shaft block.
- (B') part downward to the output shaft block. Note: After inserting the chuck cam into the output shaft block, slightly turn the chuck cam clockwise direction; and turn the chuck ring counterclockwise direction to adjust the (B) part of spring to (B') part of chuck cam.
- (5) Insert the chuck key (C) into the output shaft block (C') part.
- ⑥ Set the stop ring.
- Assemble the chuck cover with fitting the (D) part of chuck cover and (D') part of chuck cam.

