Cordless Hammer Drill Driver

Service Manual

EY6950-U1



SPECIFICATIONS

MAIN UNIT

Motor			DC Motor 18V			
Capability	Screw driving	Wood screw	φ 4.2mm (3/16") x 75mm (3")			
		Self-drilling screw	ϕ 3mm (1/8") x 13mm (1/2") SPC t = 1.6mm (1/16")			
		Masonry screw	ϕ 6.5mm (1/4") x 35mm (1-3/8") Soft concrete, Soft brick, Mortar			
	Drilling	Masonry	ϕ 13mm (1/2") x 40mm (1-9/16") Soft concrete, Soft brick, Mortar			
		Wood	ϕ 50mm (2") Yellow pine t = 38mm (1-1/2")			
		Metal	ϕ 13mm (1/2") SPC t = 1.6mm (1/16")			
No load speed		LOW	75-450/min (rpm)			
		HIGH	250-1550/min (rpm)			
Blows rate per minute		LOW	1400-8100/min (rpm)			
		HIGH	4500-28000/min (rpm)			
Chuck capacity			ϕ 1.5 – ϕ 13mm (1/16" – 1/2")			
Sta		ge 1-15	Approx. 2Nm (20kgf-cm, 18in-lbs.) - 12Nm (122kgf-cm, 106in-lbs.)			
Chuck stage)	773	For powerful driving and drilling.			
		*	Percussion			
Overall length			255mm (10")			
Weight (with battery pack)			2.7kg (5.9lbs.)			

⚠ 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.

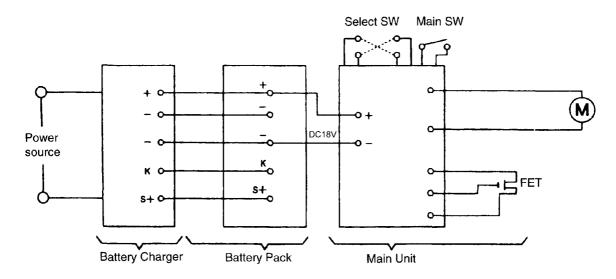
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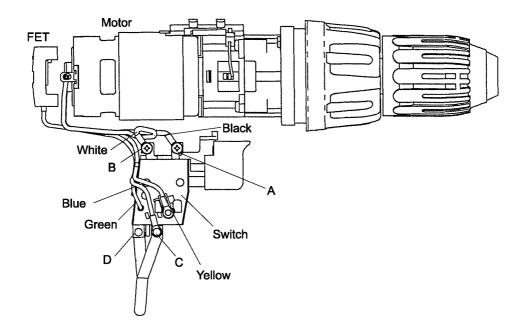
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1 SCHEMATIC DIAGRAM

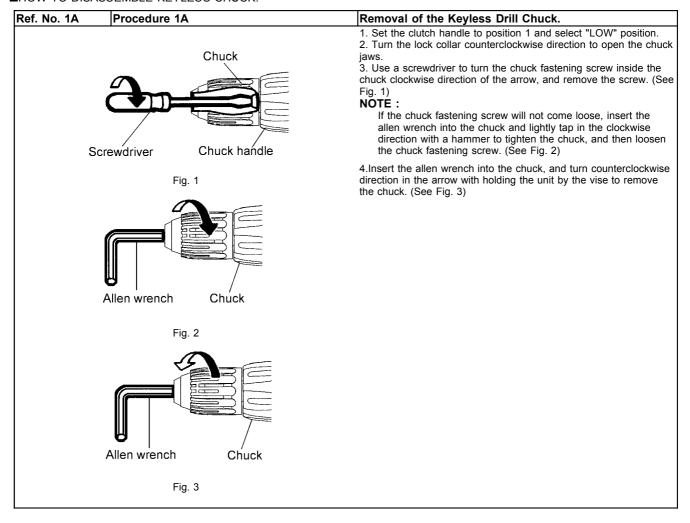


2 WIRING CONNECTION DIAGRAM

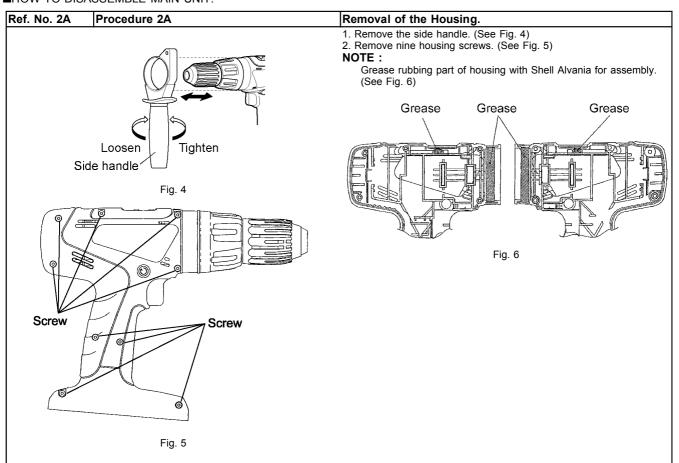


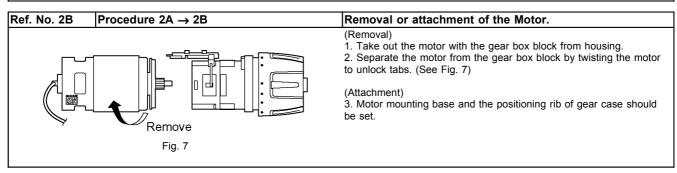
3 DISASSEMBLY/ASSEMBLY INSTRUCTIONS

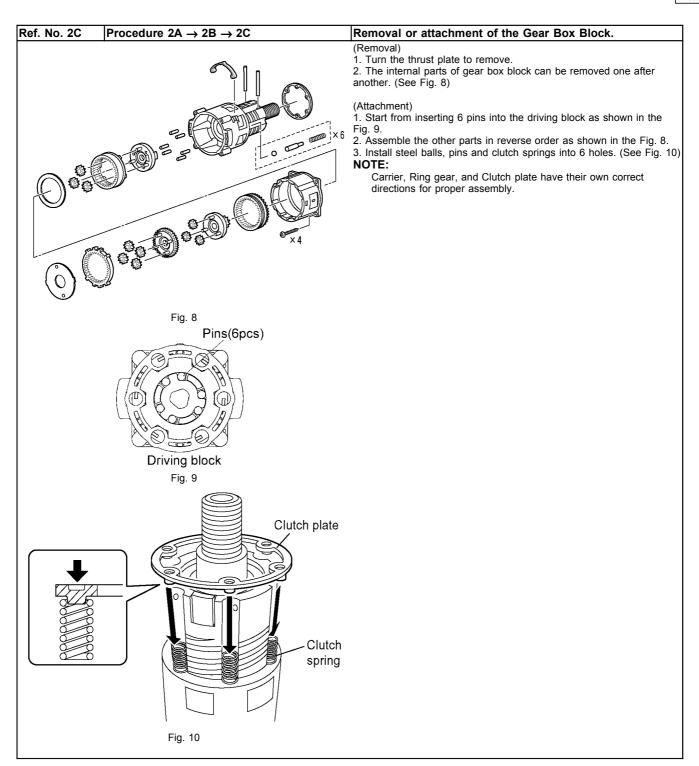
■HOW TO DISASSEMBLE KEYLESS CHUCK.



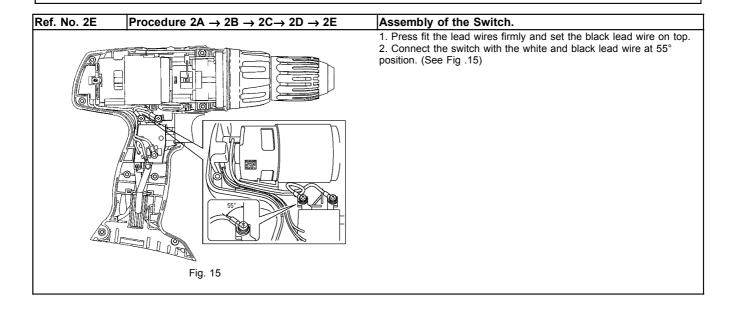
■HOW TO DISASSEMBLE MAIN UNIT.







Ref. No. 2D Procedure 2D Assembly of the Adjusting Screw and the Clutch Handle. 1. Hold the driving block with the click spring on top, and align the smallest projection of adjusting screw with the clutch case at 5 o'clock position. NOTE: Make sure that the adjusting screw has its own correct direction Click spring Failure to do so, the clutch handle does not rotate properly. (See Fig. 11) 2. Turn the adjusting screw into the driving block about 255° rotation (at 2 o'clock position) for clockwise direction. (See Fig. 12) 3. Insert 2 pins and set each length on top and bottom should be same. (See Fig. 13) 4. Set the clutch handle with position 1 on top. (See Fig .14) Small projection Fig. 11 Click spring Click spring side side ∕Small Fix projection Pin Fig. 13 Clutch handle Small projection Fig. 12 Fig. 14



< REMEDY >

Replace battery pack.

NO

TROUBLESHOOTING GUIDE

(Refer to WIRING CONNECTION DIAGRAM)

< TROUBLE >

Does not operate.

< CHECK >

<CHECK BATTERY PACK.>

If no less than 18V DC is available across the (+) and (-) terminals, the battery pack is OK.

NOTE: The battery pack is sold separately as an optional accessory. See the nearest sales dealer for details. The battery pack has a limited life.

The pack should be replaced if

- after being charged for the rated charging time the battery voltage is less than 18V DC or the usable time is extremely short.
- the battery leaks. Check battery for leaks and terminals for corrosion.

↓OK

<CHECK TERMINAL CONNECTIONS BETWEEN MAIN UNIT

AND BATTERY PACK.>

<CHECK SWITCH BLOCK.> (See WIRING CONNECTION DIAGRAM.)

↓OK

Check continuity between following terminals.

Check for proper terminal contacts.

Inspection of the forward / reverse selection switch.

When switch handle is depressed all the way:

- There should be 0Ω between (A) (D) , and between (B) (C) ; when switch lever is set to forward side.
- There should be 0Ω between (A) (C), and between (B) (D); when switch lever is set to reverse side.

↓OK

<CHECK MOTOR.>

The motor normally operates with its white (+) and black (-) lead wires connected to 18V DC

Replace motor.

Does not speedcontrol

<CHECK FET.>

Even if FET block is defective, it can not be replaced individually. Replace whole switch block.

Remove the FET circuit block and check the lead wire terminals. These terminals are open normally when there is an open circuit (${\bf \infty}\,\Omega)$ between the green and yellow lead wires, and between the blue and yellow lead wires.

NOTE:

- * FET is weak against static electricity.
- ** The resistance value may be some differences depends on the measurement range.

block.

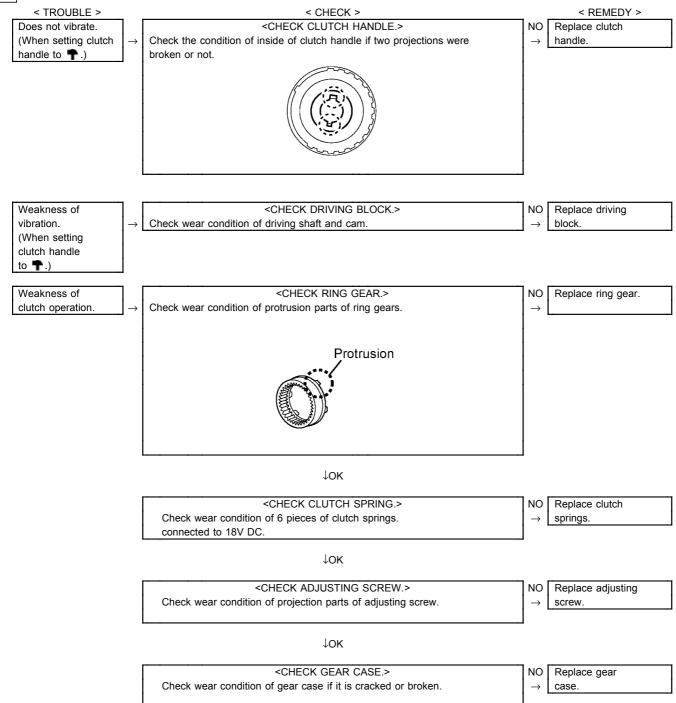
are defective.

Contacts in switch block

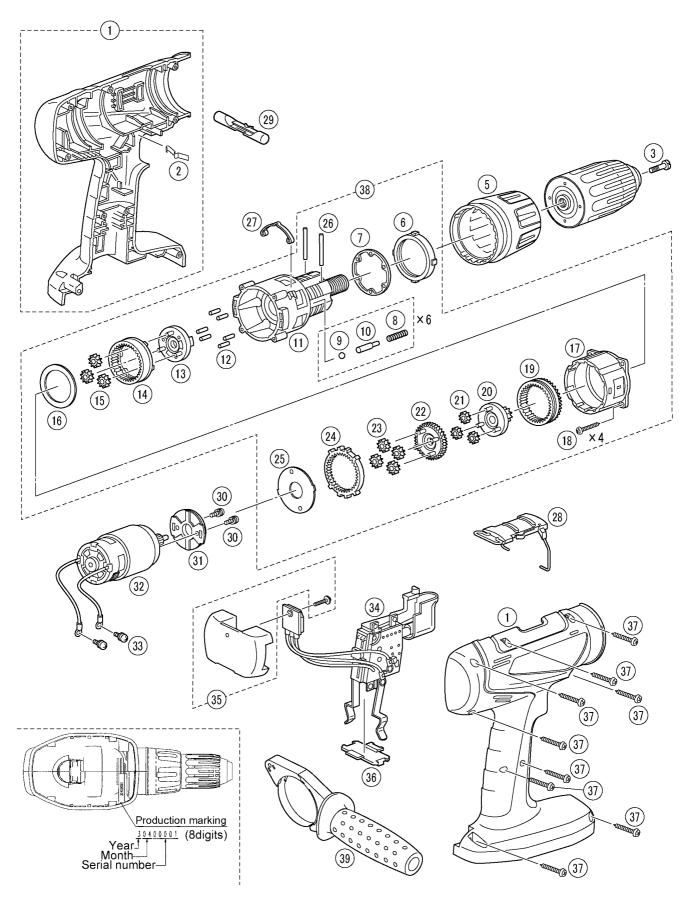
Replace switch & FET

Repair contacts.

Repair the contact or replace switch & FET block.



5 EXPLODED VIEW



6 REPLACEMENT PARTS LIST

NOTE:

*B=only available as set

*C=available individually

Ref.No.	Part No.	Part Name & Description	Remarks			Per Unit
1	WEY6950K3078	HOUSING AB SET			A	1
2	EY6481L0177	CLICK SPRING				1
3	WEY6450L6808	CHUCK FASTENING SCREW			A	1
5	WEY6950Y3228	CLUTCH HANDLE			A	1
6	WEY6450L0638	ADJUSTING SCREW			A	1
7	WEY6450L0578	CLUTCH PLATE			A	1
8	WEY6450L0168	CLUTCH SPRING	*B	(6pcs/PK)	A	6
9	WEY6813L1927	STEEL BALL	*B	(6pcs/PK) Φ5	A	6
10	WEY6450L0388	PIN	*B	(6pcs/PK) Φ5.3*20.3	A	6
11	WEY6950L1078	DRIVING BLOCK			A	1
12	EY6283L0377	PIN	*B	(6pcs/PK) Φ3.175*7.2		6
13	EY6901L1107	CARRIER				1
14	WEY6450L1488	RING GEAR			A	1
15	WEY6450L1348	PLANET GEAR	*B	(3pcs/PK)	A	3
16	WEY6450L0858	THRUST PLATE			A	1
17	WEY6450L1768	GEAR CASE			A	1
18	EY6406K9038	TORX TAPPING SCREW	*C	K3-12	A	4
19	WEY6450L1128	CARRIER A			A	1
20	WEY6450L1358	PLANET GEAR A	*B	(3pcs/PK)	A	3
21	WEY6200B1468	RING GEAR B			A	1
22	WEY6950L1118	CARRIER			•	1
23	WEY6950L1478	RING GEAR			A	1
24	EY6230L1367	PLANET GEAR	*B	(4pcs/PK)		4
25	WEY6450L0868	THRUST PLATE			A	1
26	WEY6950L0358	PIN	*B	(2pcs/PK)		2
27	WEY6450L0178	CLICK SPRING A			A	1
28	WEY6450Y3238	H/L CHANGE HANDLE			A	1
29	WEY6405Y3248	F/R SELECTOR HANDLE			A	1
30	EYT184L6077	SCREW	*C	K4-6		2
31	WEY6450L0028	MOTOR MOUNTING PLATE			A	1
32	WEY6450L1008	DC MOTOR			A	1
33	WEY6450S6028	SEMS SCREW	*C	K3-5	A	2
34	WEY6950Y2008	SWITCH			A	1
35	EY6406L2568	HEAT SINK		with a screw	A	1
36	EY6230L0207	DUST PREVENTIVE PLATE			A	1
37	EY6230K9218	TORX TAPPING SCREW	*C	K3-20	A	9
38	WEY6950L1458	GEAR BOX BLOCK			A	1
39	WEY6450K4628	SIDE HANDLE			A	1
-	WEY6950K8108	OPERATING INSTRUCTIONS			A	1

^{**}Battery Pack, Keyless Chuck, and Tool Case are available as an optional accessory.

See the nearest sales dealer for details.

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

^{***}For replacement parts of charger, see the charger service manual.

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