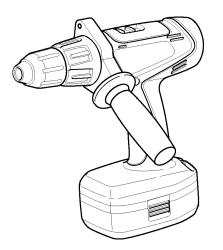
Service Manual Cordless Drill & Driver

EY6450-U1



SPECIFICATIONS

MAIN UNIT

Motor		DC Motor 18V		
No load speed	LOW	70-430/min (rpm)		
	HIGH	240-1500/min (rpm)		
Chuck capacity		φ 0.5 – φ 13mm (0 – 1/2")		
Chuck stage	Stage 1-15	Approx. 2Nm (20kgf-cm, 18in-lbs.) - 12Nm (122kgf-cm, 106in-lbs.)		
	N 3	For powerful driving and drilling.		
Overall length		250mm (9-13/16")		
Weight (with battery pack)		2.6kg (5.7lbs.)		

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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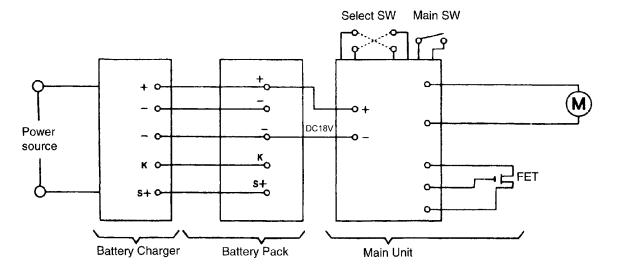


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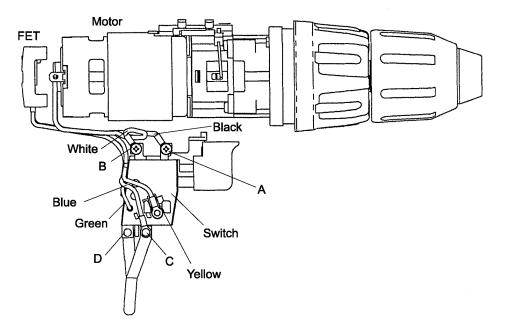
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SCHEMATIC DIAGRAM

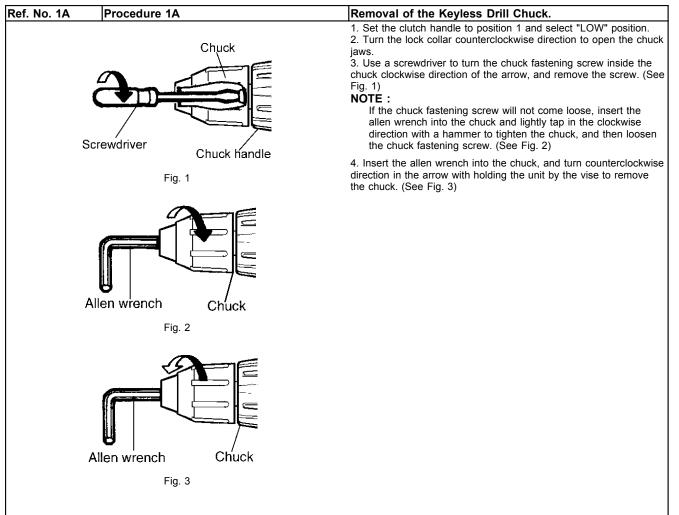


2 WIRING CONNECTION DIAGRAM

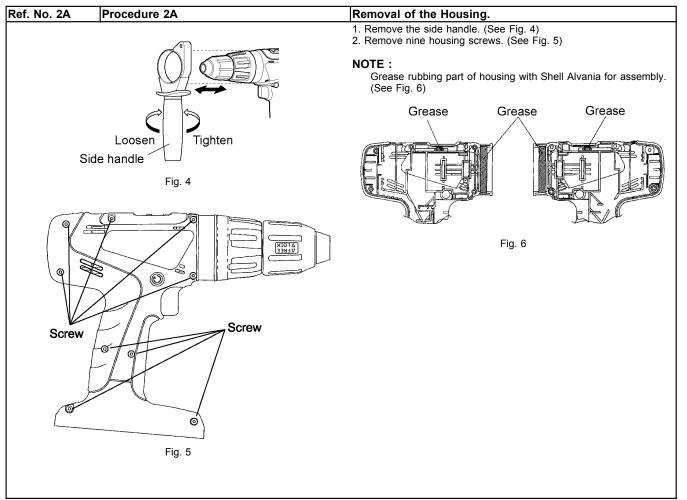


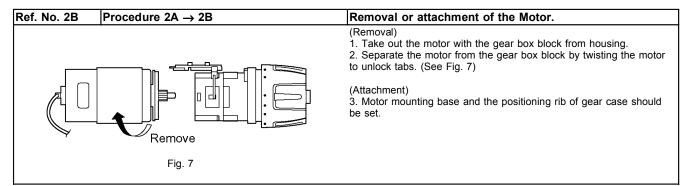
3 DISASSEMBLY/ASSEMBLY INSTRUCTIONS

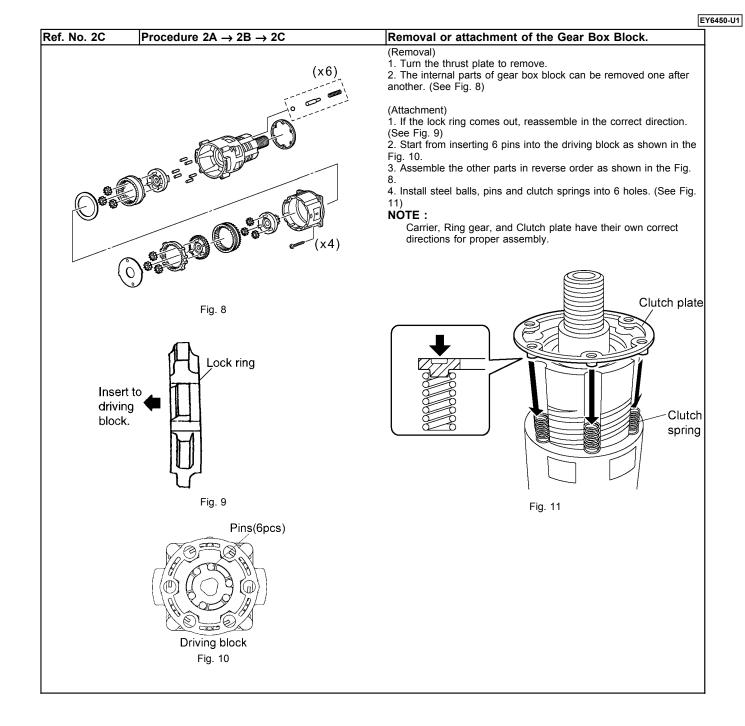
■HOW TO DISASSEMBLE KEYLESS CHUCK.

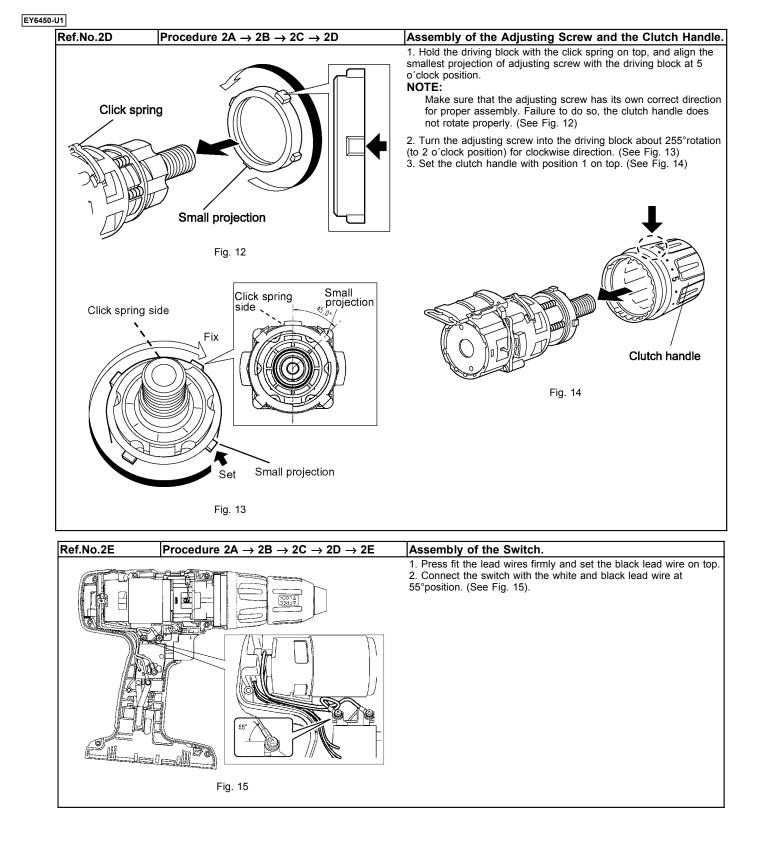


■HOW TO DISASSEMBLE MAIN UNIT.







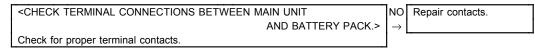


4 TROUBLESHOOTING GUIDE

(Refer to WIRING CONNECTION DIAGRAM)

< TROUBLE > < CHECK > < REMEDY > <CHECK BATTERY PACK.> Does not operate. Replace battery pack. NO If no less than 18V DC is available across the (+) and (-) terminals, \rightarrow 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



↓OK

	-	
<check block.="" switch=""></check>	NO	Contacts in switch block
(See WIRING CONNECTION DIAGRAM.)	\rightarrow	are defective.
Check continuity between following terminals.		Replace switch & FET
* Inspection of the forward / reverse selection switch.		block.
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.		
* Inspection of the brake.		
When switch handle is not depressed:		
- There should be 0Ω between (A) - (B) .		

↓oκ

<check motor.=""></check>	NO	Replace motor.
The motor normally operates with its white (+) and black (-) lead wires	\rightarrow	
connected to 18V DC.		

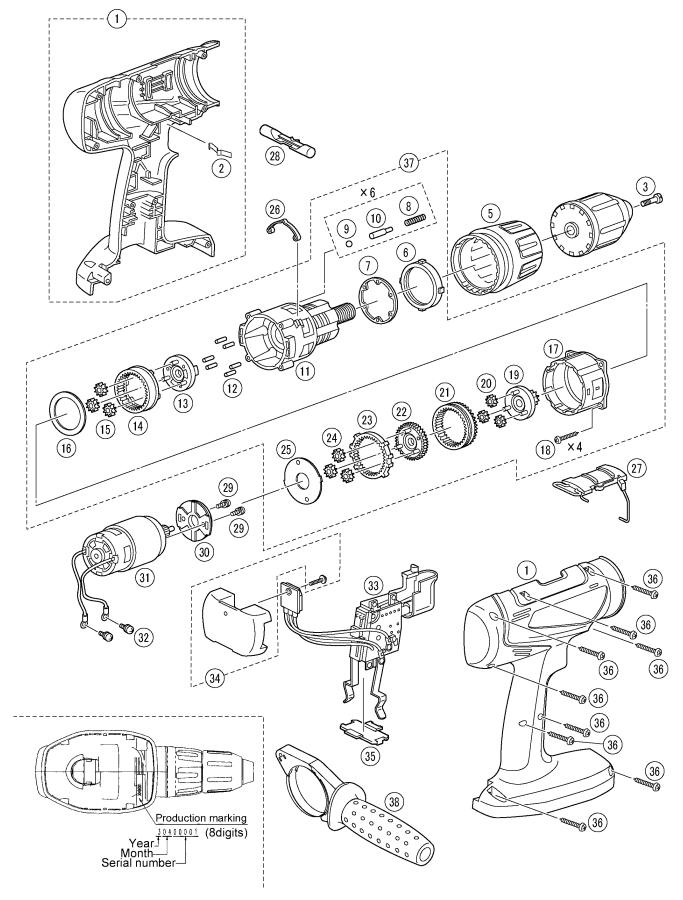
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	EV6450 114
Ш	10450-01

< TROUBLE >		< CHECK >		< REMEDY >
Does not speed-	7	<check fet.=""></check>	NO	Repair the contact
control or does not		Even if FET block is defective, it can not be replaced individually.		or replace switch
brake.	\rightarrow	Replace whole switch block.	\rightarrow	& FET block.
	-	Remove the FET circuit block and check the lead wire terminals.		
		These terminals are open normally when there is an open circuit ($\infty \Omega$)		
		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.		
		······································		
		↓OK		

↓OK

<check block.="" switch=""></check>	NO	Replace switch & FET
	\rightarrow	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	WEY6450K3078	HOUSING AB SET				1
2	EY6481L0177	CLICK SPRING				1
3	WEY6450L6808	CHUCK FASTENING SCREW			▲	1
5	WEY6450Y3228	CLUTCH HANDLE			▲	1
6	WEY6450L0638	ADJUSTING SCREW			▲	1
7	WEY6450L0578	CLUTCH PLATE			▲	1
8	WEY6450L0168	CLUTCH SPRING		(6pcs/PK)	▲	6
9	WEY6813L1927	STEEL BALL		(6pcs/PK) \$\$	▲	6
10	WEY6450L0388	PIN		(6pcs/PK) ϕ 5.3*20.3	▲	6
11	WEY6450L1078	DRIVING BLOCK			A	1
12	EY6283L0377	PIN		(6pcs/PK) \$\$.175*7.2		6
13	EY6901L1107	CARRIER				1
14	WEY6450L1488	RING GEAR			▲	1
15	WEY6450L1348	PLANET GEAR		(3pcs/PK)	▲	3
16	WEY6450L0858	THRUST PLATE				1
17	WEY6450L1768	GEAR CASE			▲	1
18	EY6406K9038	TORX TAPPING SCREW	*C	к3-12		4
19	WEY6450L1128	CARRIER A				1
20	WEY6450L1358	PLANET GEAR A		(3pcs/PK)	▲	3
21	WEY6200B1468	RING GEAR B				1
22	WEY6450L1118	CARRIER				1
23	WEY6450L1478	RING GEAR			▲	1
24	EY6200B1367	PLANET GEAR		(3pcs/PK)		3
25	WEY6450L0868	THRUST PLATE				1
26	WEY6450L0178	CLICK SPRING A			▲	1
27	EY6406Y3238	H/L CHANGE HANDLE				1
28	WEY6405Y3248	F/R SELECTOR HANDLE				1
29	EYT184L6077	SCREW	*C	K4-6		2
30	WEY6450L0028	MOTOR MOUNTING PLATE			▲	1
31	WEY6450L1008	DC MOTOR			A	1
32	WEY6450S6028	SEMS SCREW	*C	K3-5	▲	2
33	WEY6450Y2008	SWITCH			▲	1
34	EY6406L2568	HEAT SINK		with a screw	▲	1
35	EY6230L0207	DUST PREVENTIVE PLATE			▲	1
36	EY6230K9218	TORX TAPPING SCREW	*C	K3-20	A	9
37	WEY6450L1458	GEAR BOX BLOCK			▲	1
38	WEY6450K4628	SIDE HANDLE			▲	1
-	WEY6450K8108	OPERATING INSTRUCTIONS				1

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

See the nearest sales dealer for details.

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

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

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