Service Manual Cordless Multi Drill & Driver

EY6535-U1



SPECIFICATIONS

			Drill drive mode	Impact mode (Caution: Do not use keyless drill chuck for impact mode.)		
	Drilling	Wood drilling	¢ 27mm (1-1/16")	Not feasible		
		Metal drilling	φ 13mm (1/2")			
		Machine screw	M5	Not feasible		
Maximum	Screw	Wood screw	φ6.8mm (17/64")			
recommended	driving	Tech screw	φ 6.0mm (15/64")			
capacities	anving	Coach screw (Lag bolt)	¢ 10.0mm (3/8")			
	Bolt faste	ening	Not feasible	Standard bolt: M12 High tensile bolt: M10		
No load speed			0 ~ 650/min (rpm)	0 ~ 2,200/min (rpm)		
Clutch torque			Approx. 1.0Nm (10kgf-cm, 8.7in-lbs.) – 5.4Nm (55kgf-cm, 47.7in-lbs.)	-		
Impact per minute			-	0 ~ 3,300/min (ipm)		
Motor			DC Motor 15.6V			
Square drive			12.7mm (1/2") square drive with pin detent			
Chuck capacity	(used by m	odel EY9X003E)	φ 1.6 ~ 13mm (1/16"~ 1/2") -			
Overall length			216mm (8-1/2")			
Weight (with battery pack)			2.2kg (4.8lbs.)			



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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.

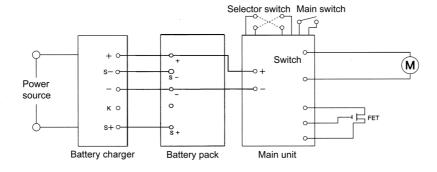
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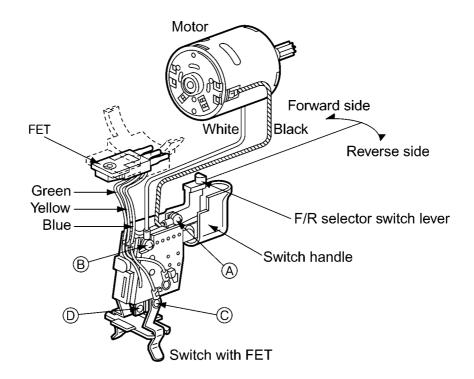
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1 SCHEMATIC DIAGRAM



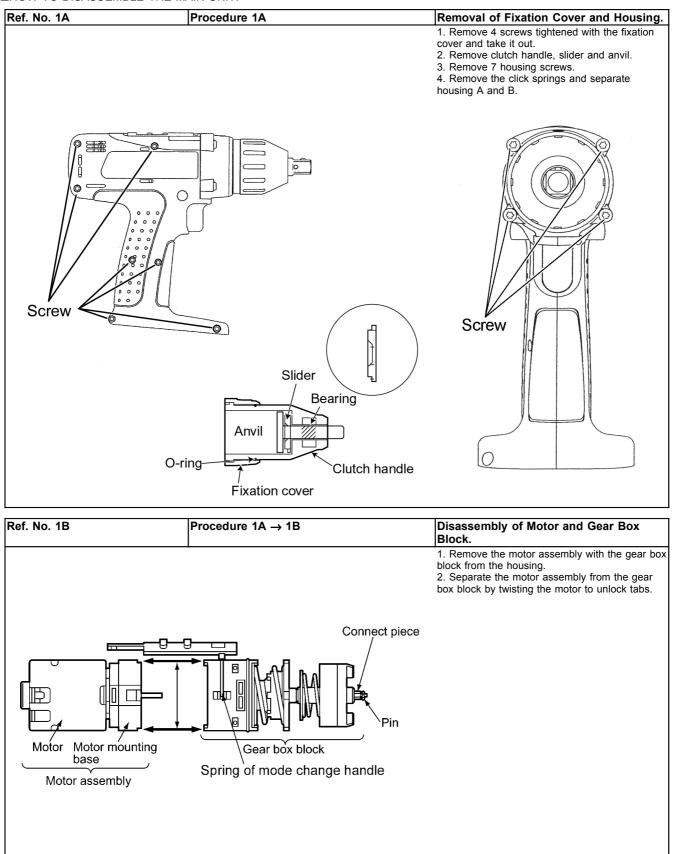
2 WIRING CONNECTION DIAGRAM



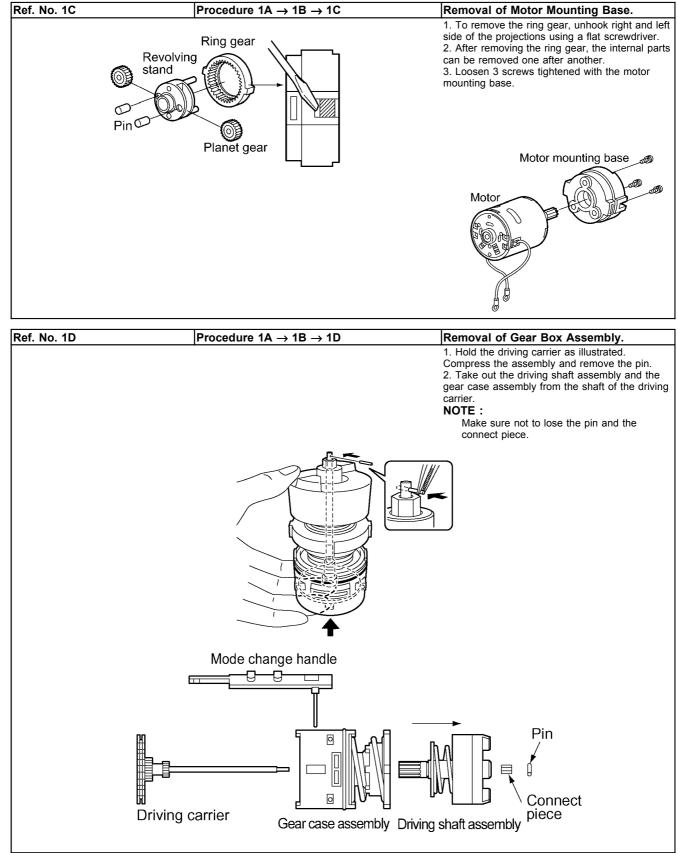
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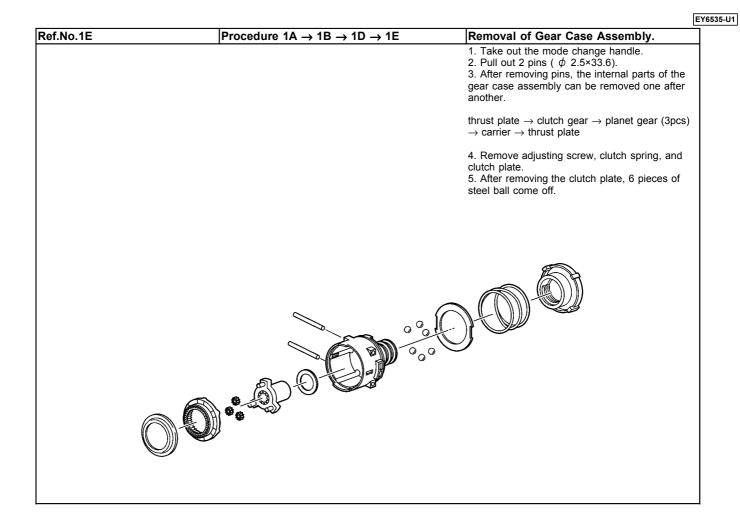
3 DISASSEMBLY INSTRUCTIONS

■HOW TO DISASSEMBLE THE MAIN UNIT.

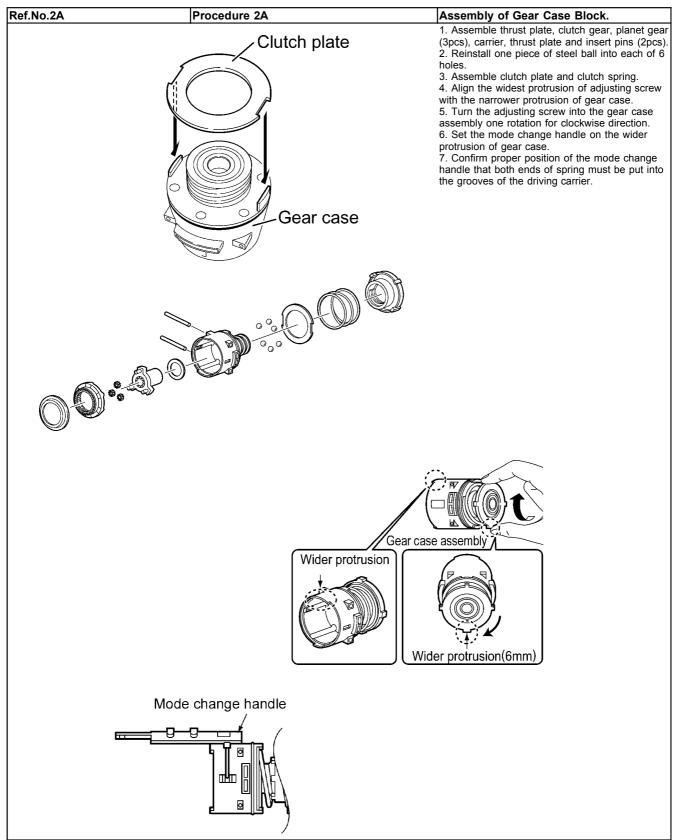


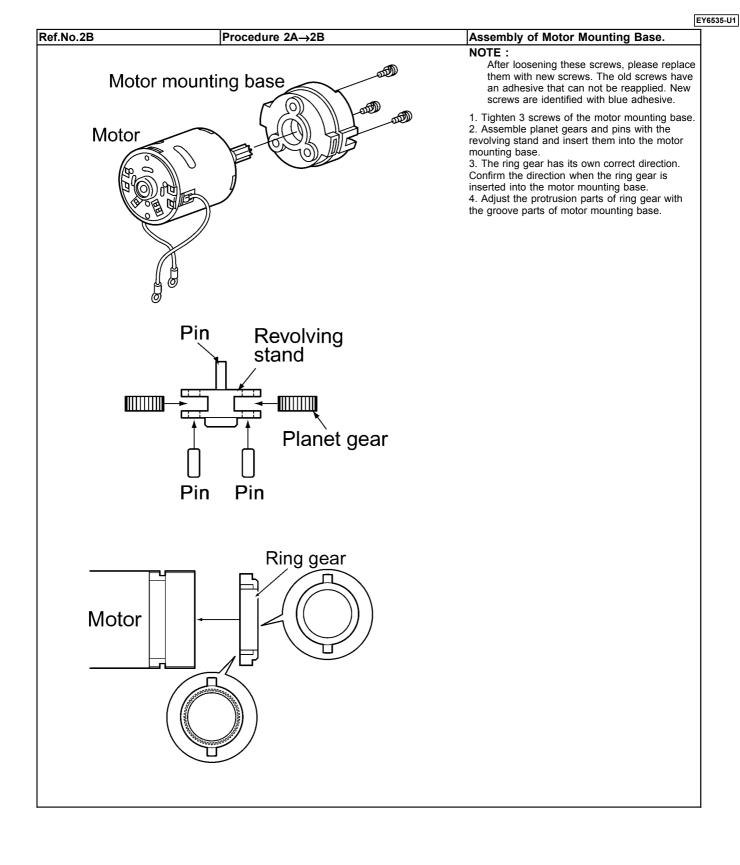




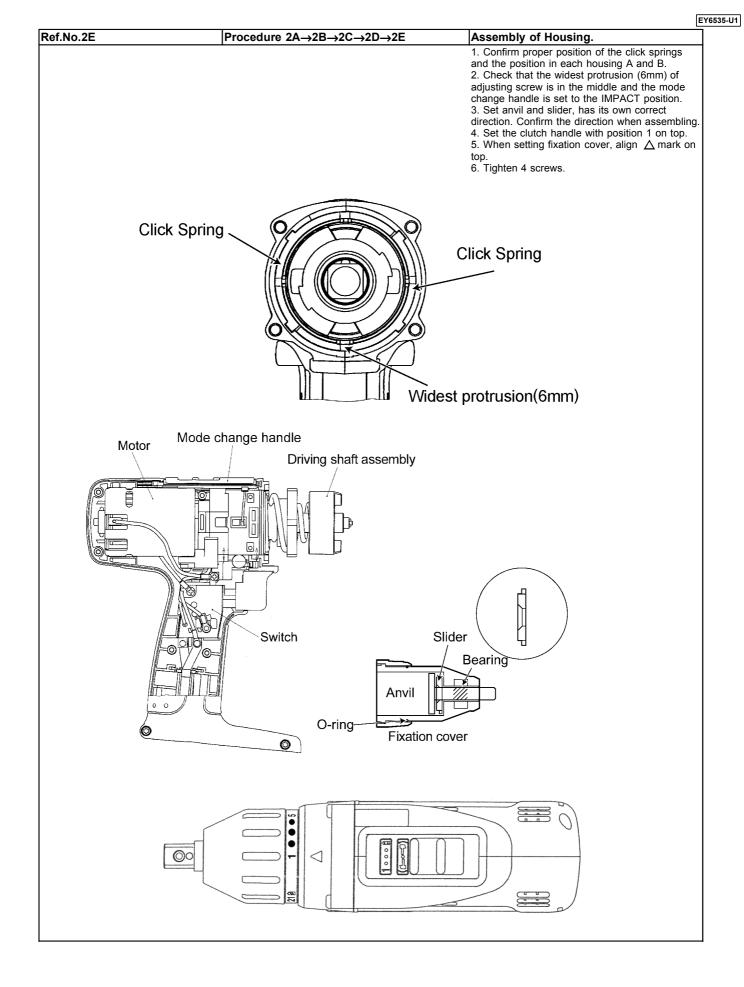


4 ASSEMBLY INSTRUCTIONS



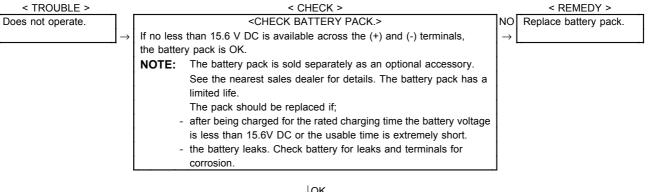


EY6535-U1 Procedure 2A→2B→2C Assembly of Gear Box Assembly. Ref.No.2C 1. Fit the driving carrier into the hole of the gear case assembly and the driving shaft assembly. Mode change handle 2. Confirm the connect piece is inside of the -0driving shaft block. Ρ E Insert the pin into the shaft of the driving carrier holding the bottom of the gear box assembly (driving carrier) by hand.
Align the wider protrusion of motor mounting back wider protrusion of motor mounting Pin base with the wider protrusion of gear case. Connect Б piece Driving carrier Gear case assembly Driving shaft assembly Wider protrusion of Wider protrusion motor mounting base of gear case Fit pin of revolving stand into the hole of driving carrier. Ref.No.2D Procedure 2A→2B→2C→2D Assembly of Motor and Switch. 1. Fit terminal of lead wire (black) parallel to the heat sink. Caution: Be careful that the heat sink and the terminal do not touch, otherwise these are shortcircuited. Heat sink Terminal Do not touch Black (M-) White (M+) വ (M+)



TROUBLESHOOTING GUIDE 5

(Refer to WIRING CONNECTION DIAGRAM)



↓OK

<check between="" connections="" main="" terminal="" th="" unit<=""><th>NO</th><th>Clean and repair</th></check>	NO	Clean and repair
AND BATTERY PACK.>	\rightarrow	contacts.
Check for proper terminal contacts.		

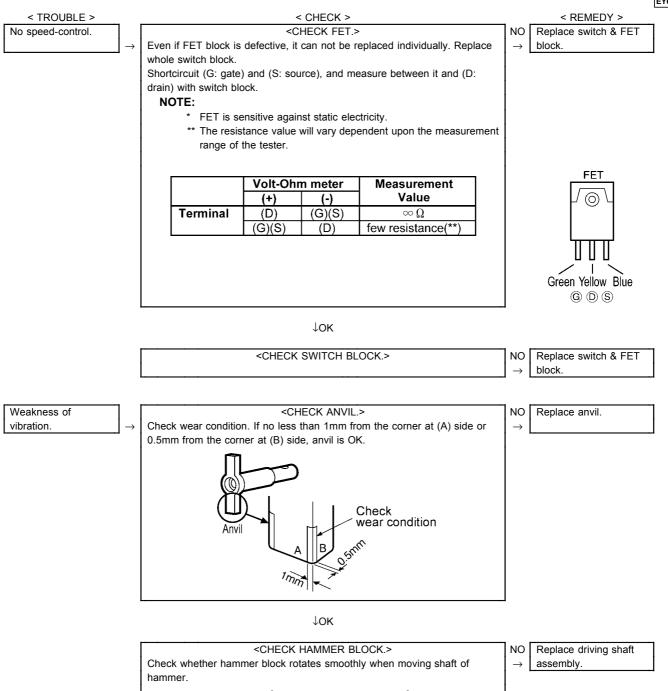
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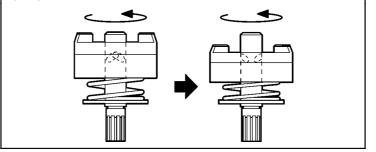
<check block.="" switch=""></check>	NO	Contacts in switch block
See WIRING CONNECTION DIAGRAM.	\rightarrow	are defective.
Check continuity between following terminals.		Replace switch & FET
* Inspection of the forward / reverse selection switch.		block.
When switch handle is depressed all the way:		
- There should be 0Ω between \textcircled{A} - \textcircled{D} , and between \textcircled{B} - \textcircled{C} ;		
when switch lever is set to forward side.		
- There should be 0Ω between \textcircled{A} - \textcircled{C} , and between \textcircled{B} - \textcircled{D} ;		
when switch lever is set to reverse side.		
* Inspection of the brake.		
When switch handle is not depressed:		
- There should be 0Ω between \textcircled{A} - \textcircled{B} .		

↓OK

<check motor.=""></check>	NO	Replace motor.
The motor normally operates with its white (+) and black (-) lead wires	\rightarrow	
connected to 15.6V DC.		

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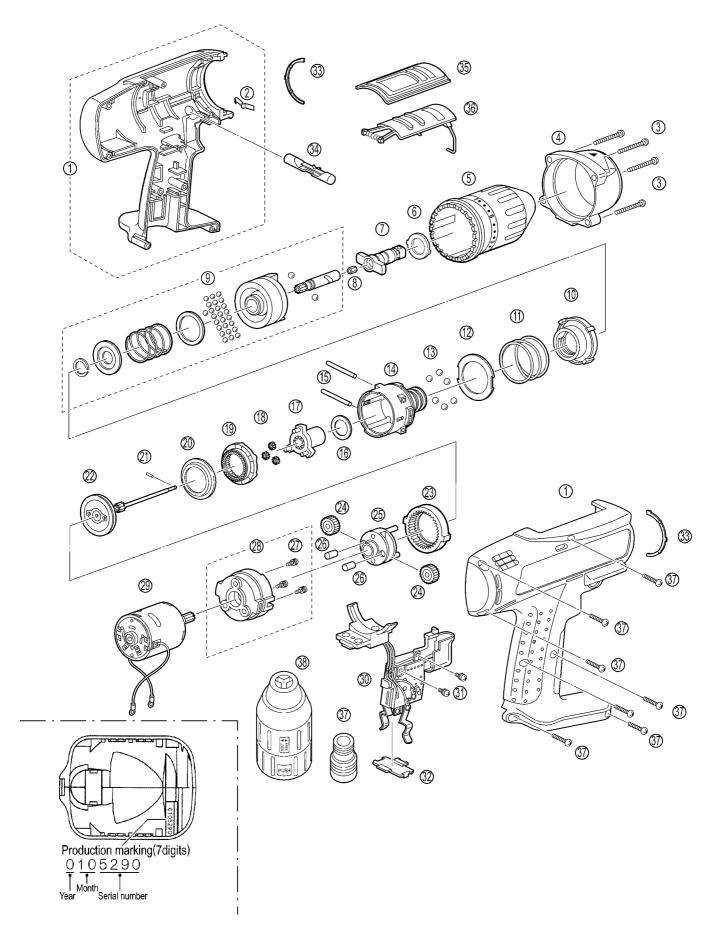


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6 EXPLODED VIEW



7 REPLACEMENT PARTS LIST

NOTE:

*B = only available as set

*C = available individually

Ref.No.	Part No.	Part Name & Description		Remarks	 Per Unit
1	WEY6535K3078	HOUSING AB SET			1
2	EY6481L0177	CLICK SPRING			1
3	WEY6535K9158	GIZA TIGHT SCREW (4×25)	*C		4
4	WEY6535S0648	FIXATION COVER			1
5	WEY6535K3748	CLUTCH HANDLE			1
6	WEY6535L0868	SLIDER			1
7	WEY6535L1128	POWER SHAFT			1
8	WEY6535L0888	CONNECT PIECE			1
9	WEY6535L1418	DRIVING SHAFT ASSEMBLY			1
10	WEY6535L0638	ADJUSTING SCREW			1
11	WEY6535L0168	CLUTCH SPRING			1
12	WEY6535L0578	CLUTCH PLATE			1
13	WEY6535L6968	STEEL BALL	*B	ϕ 5, (6PCS/PACK)	6
14	WEY6535L1068	GEAR CASE			1
15	EY6481L0357	THRUST PIN	*B	2.5×33.6, (2PCS/PACK)	2
16	WEY6535L0928	THRUST PLATE 55			1
17	WEY6535L1648	CARRIER			1
18	WEY6505L1347	PLANET GEAR	*B	(3PCS/PACK)	
19	WEY6535L1358	CLUTCH GEAR			1
20	WEY6535L0908	THRUST PLATE 71			1
21	WEY6535L0918	PIN (ϕ 1×5.5)			1
22	WEY6535L1368	DRIVING CARRIER			1
23	WEY6505L1457	RING GEAR			1
24	WEY6505L1377	PLANET GEAR A	*B	(2PCS/PACK)	2
25	WEY6535L1388	REVOLVING STAND			1
26	WEY6505L0367	PIN (ϕ 5×9.4)	*C		2
27	WEY6505L9007	SCREW (K3×6)	*B	(3PCS/PACK)	3
28	WEY6535L0028	MOTOR MOUNTING BASE			1
29	WEY6535L1008	DC MOTOR			1
30	WEY6535Y2008	SWITCH			1
31	EY6230L6037	SEMS SCREW	*C	M3×5	2
32	EY6230L0207	DUST PREVENTIVE PLATE			1
33	WEY6535L0188	CLICK SPRING	*B	(2PCS/PACK)	2
34	EY6402Y3247	SELECTOR HANDLE			1
35	WEY6535X3248	D/I INDICATION COVER			1
36	WEY6535K3238	D/I CHANGE HANDLE			1
37	WEY6930K9218	GIZA TIGHT SCREW (3×20)	*C		7
-	WEY6535K8108	OPERATING INSTRUCTIONS			1

** Battery Pack, Keyless Chuck, Quick Change 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.