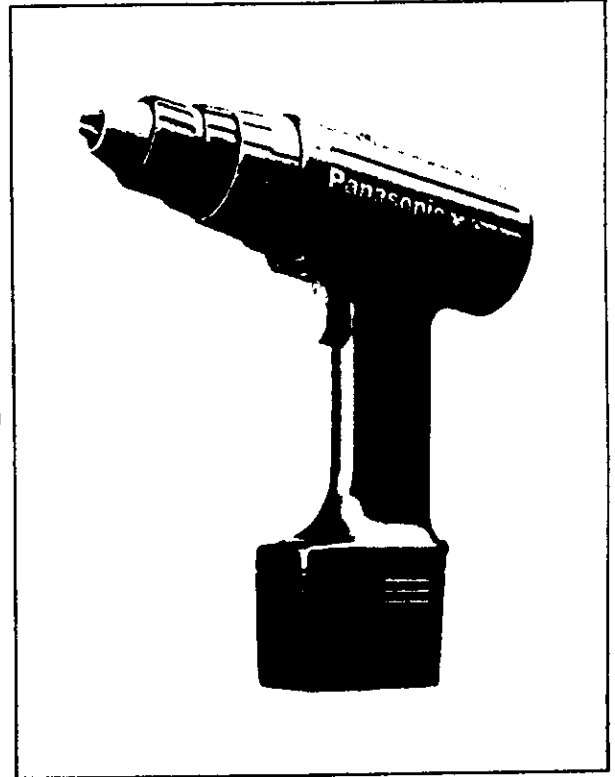


Service Manual

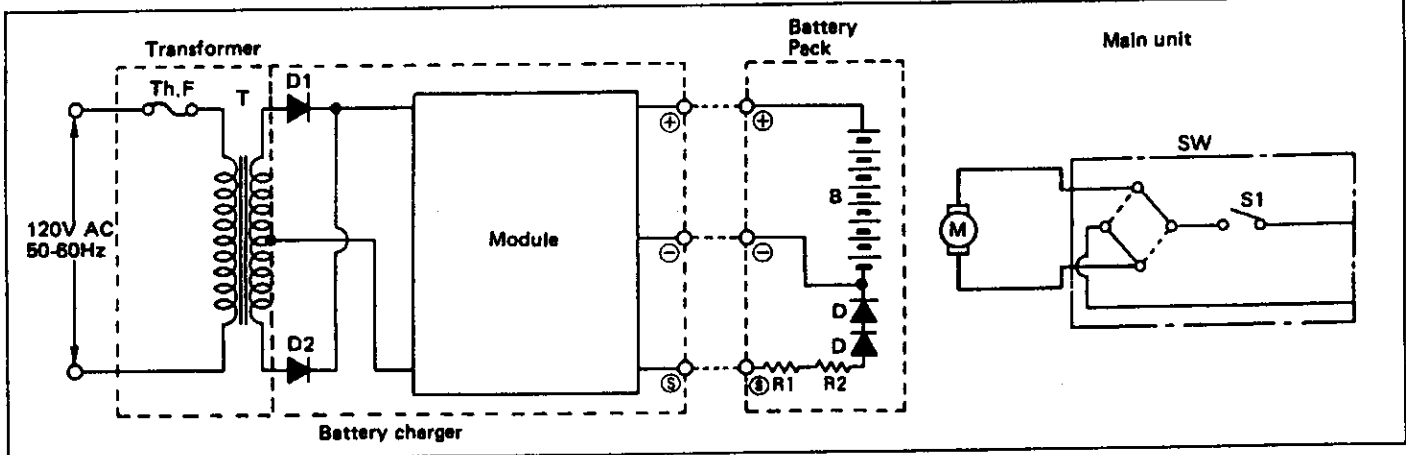
Cordless Drill & Driver
EY570B

Rated Specifications

Model No.	: EY570
Power source	: 120V AC 50-60Hz
Power consumption	: 32VA
Charging time	: Standard 1 hour
Motor voltage	: 9.6V DC
Max. rotation torque	: LOW position – 143 in. lbs. (165 kg-cm)
Rotation speed	: HIGH position – 1000 r.p.m. LOW position – 350 r.p.m.
Weight	: Main unit (with battery pack) – 3.5 lbs. (1.6 kg) Battery charger – 2.7 lbs. (1.2 kg)
Standard equipment	: Keyless drill chuck (3/8") Battery pack Battery charger Double-ended #2 Phillips bit Lock release rod



SCHEMATIC DIAGRAM

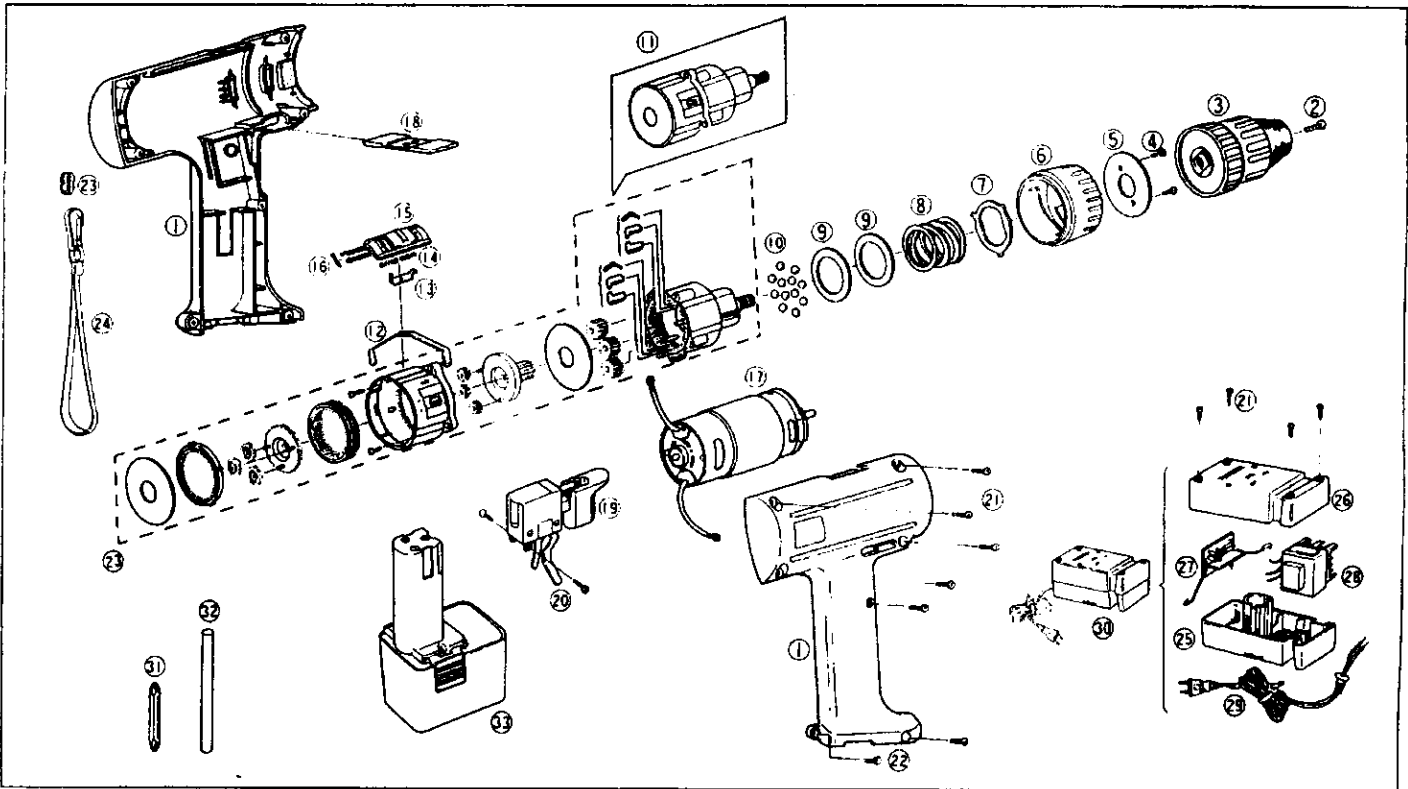


Panasonic

Panasonic Industrial Company
Division of Matsushita Electric
Corporation of America
Two Panasonic Way
Secaucus, New Jersey 07094

Panasonic Hawaii Inc.
91-238 Kauihi St. Ewa Beach
P O Box 774
Honolulu, Hawaii 96808-0774

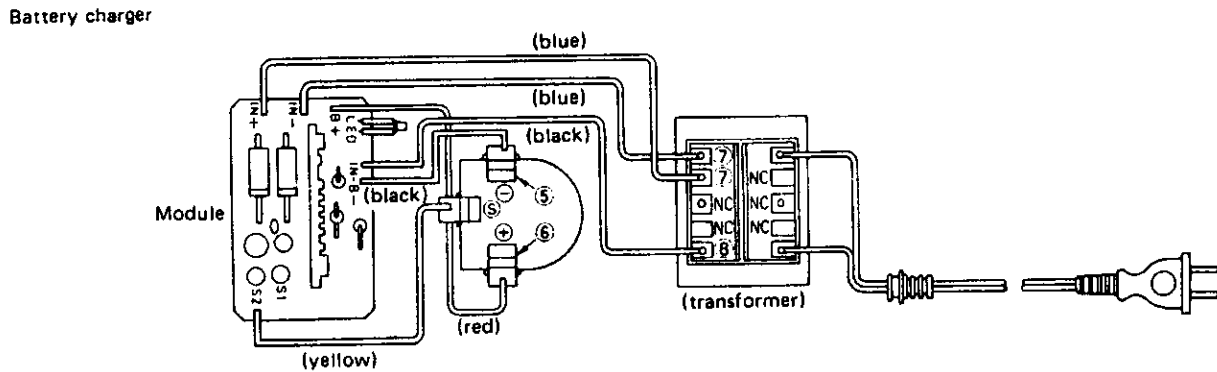
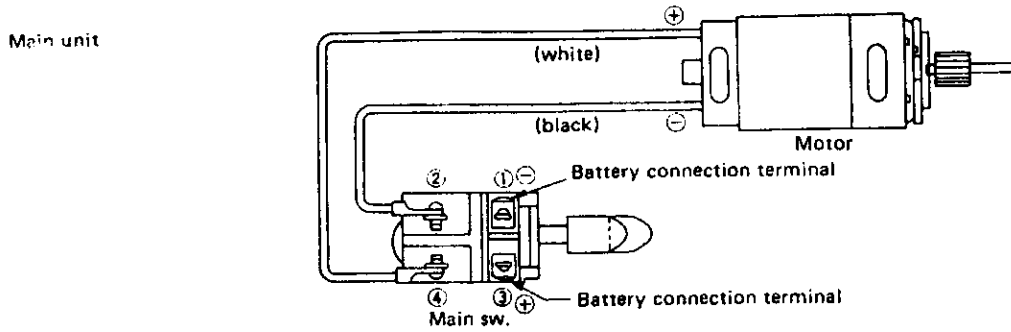
EXPLODED VIEW



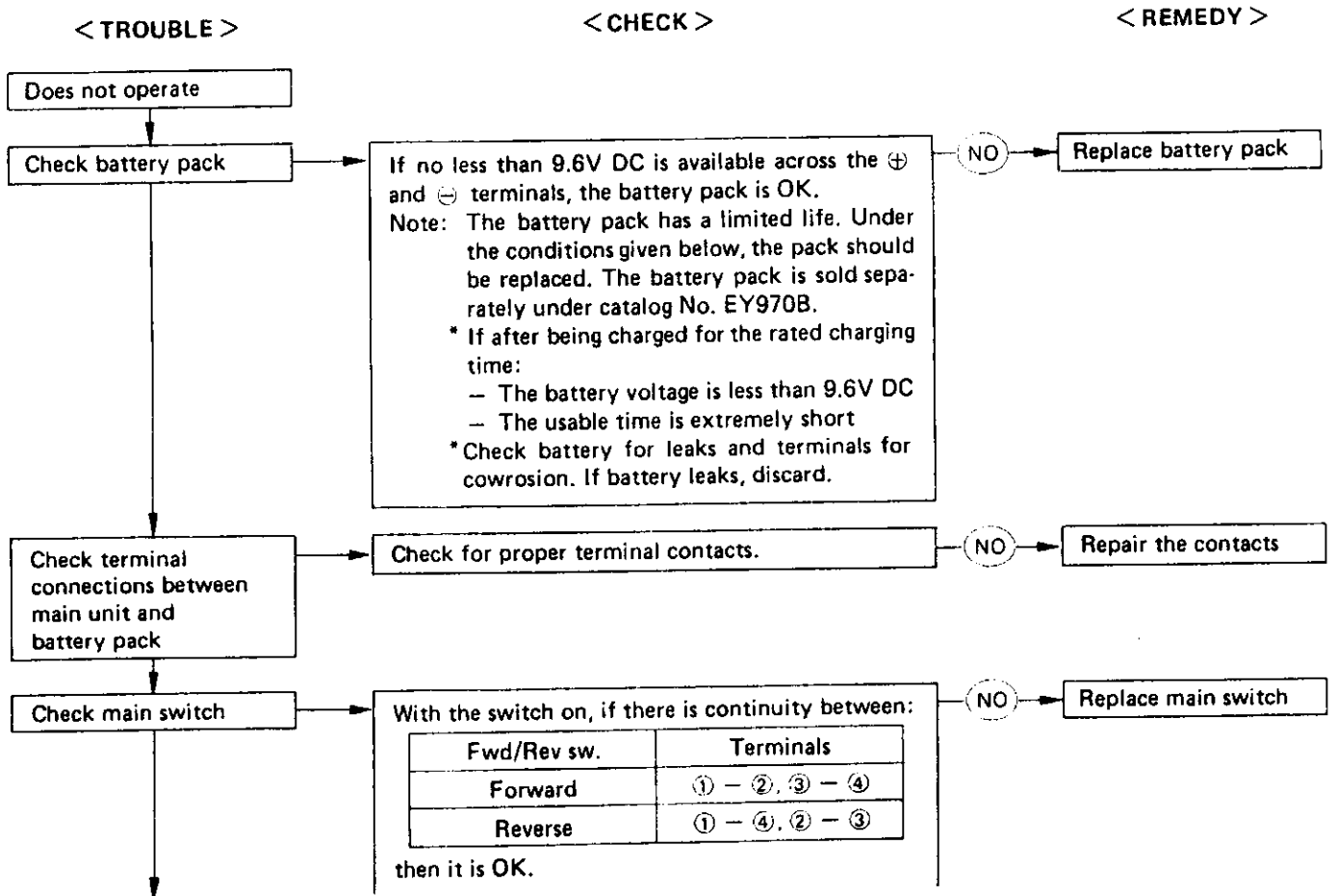
REPLACEMENT PARTS LIST

Ref. No.	Part No.	Part Name & Descriptions	Per Set	Remarks
1	EY570B3078	Housing AB set	1	
2	EY570B6807	Fastening screw	1	
3	EY991B	Keyless drill chuck	1	available as an optional accessory
4	EY55149067	Tapping screw	2	
5	EY570B0297	Clutch mounting plate	1	
6	EY561H3228	Clutch handle	1	
7	EY570B0577	Clutch plate	1	
8	EY570B0168	Spring for clutch	1	
9	EY6280B0887	Thrust plate	2	
10	EY560B6967	Ball bearing	12	
11	EY570B1458	Gear box	1	
12	EY560B1517	Change-gear lever	1	
13	EY560B1547	Change-gear coupler	1	
14	EY560B0177	Spring A	2	
15	EY561H3238	Change-gear handle	1	
16	EY560B0187	Spring B	1	
17	EY570B1007	DC Motor	1	
18	EY551H3248	Forward/Reverse selector handle	1	
19	EY570Y2008	Switch	1	
20	EY531B6197	Screw for switch	2	
21	EY561B6117	Tapping screw A for housing	10	
22	EY561S9037	Tapping screw B for housing	1	
23	EY505B0287	Hand strap ring	1	
24	EY506B0277	Hand strap	1	
25	EY570B3098	Housing A for charger	1	
26	EY570B3028	Housing B for charger	1	
27	EY570B2127	Module	1	
28	EY570B2238	Power transformer	1	
29	EY570B2058	Power cord	1	
30	EY570B7658	Battery charger assembly	1	available as an optional accessory
31	EY570B7928	Double-ended #2 phillips bit	1	
32	EY570B0347	Lock release rod	1	
33	EY970B	Battery pack	1	available as an optional accessory

WIRING CONNECTION DIAGRAM



TROUBLESHOOTING GUIDE (Refer to WIRING CONNECTION DIAGRAM)



PREPARATION FOR THE CONTINUITY TEST

Observe the following:

1. Remove the battery pack before attempting test.
2. Disconnect the black lead (minus \ominus) coming from the motor to switch.

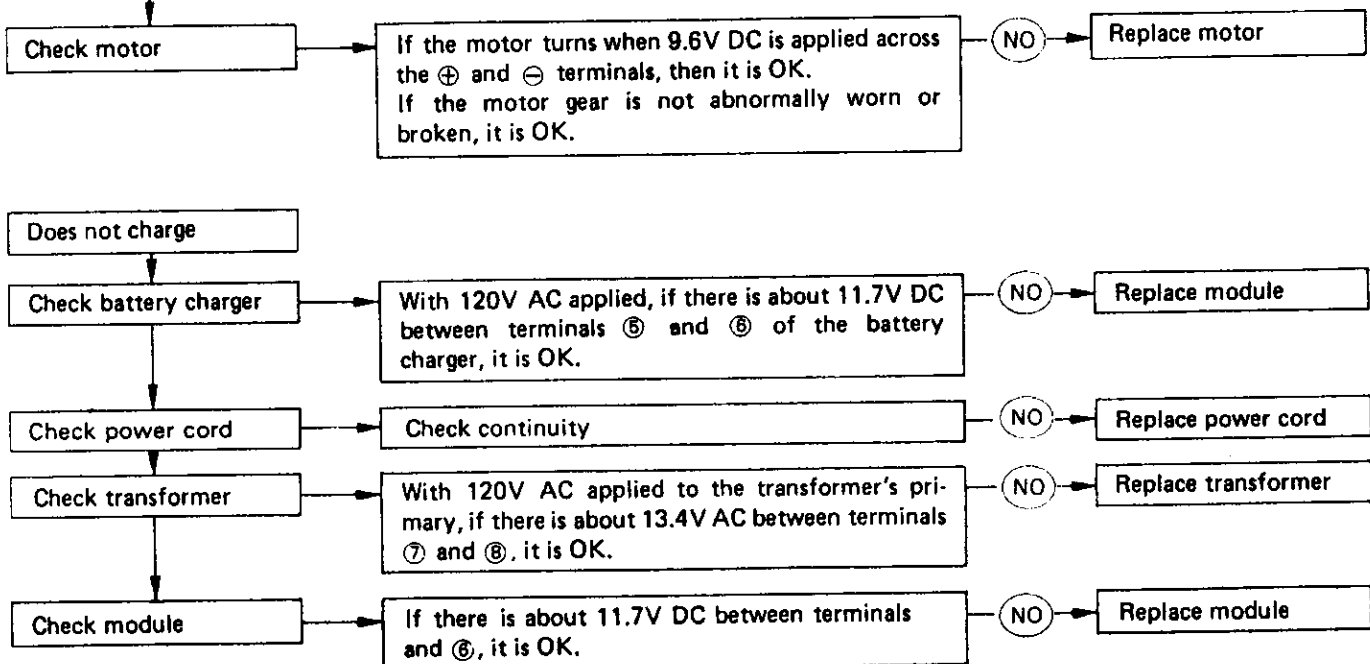
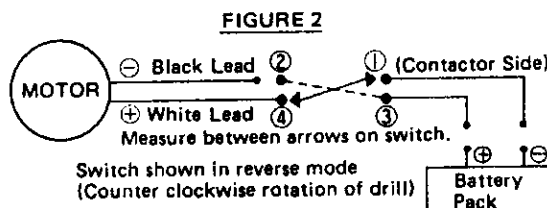
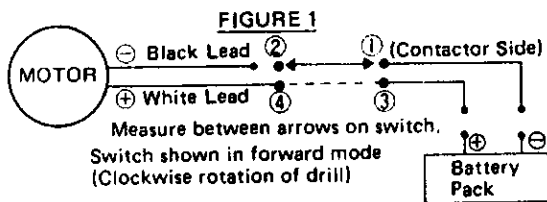
Test as follows:

In **Figure 1**, there should be continuity from the minus \ominus terminal (where motor lead was connected) to the minus battery contactor. If there is no continuity and no clockwise rotation of the drill motor, replace the switch.

In **Figure 2**, there should be continuity from the positive terminal of the motor lead (connected to the switch) to the minus \ominus battery contactor. If there is no continuity and no counter clockwise rotation of the drill motor, replace the switch.

If in either mode the function is intermittent — replace power On/Off switch.

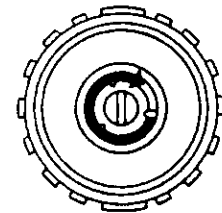
POWER ON/OFF SWITCH CONTINUITY CHECK



DISASSEMBLY / ASSEMBLY INSTRUCTIONS

(Drill Chuck Removal)

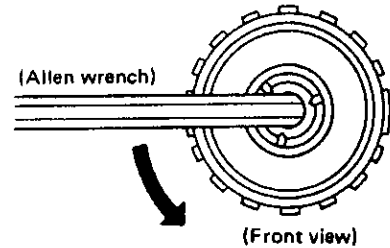
1. Remove chuck by inserting a flat tip screwdriver in center of chuck and turn clockwise to loosen as shown.



(Front view)

2. Insert the allen wrench (max, ϕ 3/8", suggested length 1" by 8") into the chuck and tighten. Turn counterclockwise to remove the chuck.

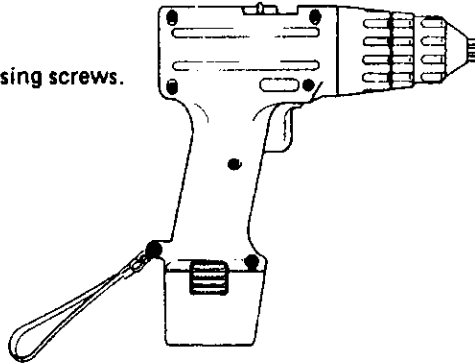
Caution: Do not pin. Use both hands for better leverages.



(Front view)

(Housing Removal)

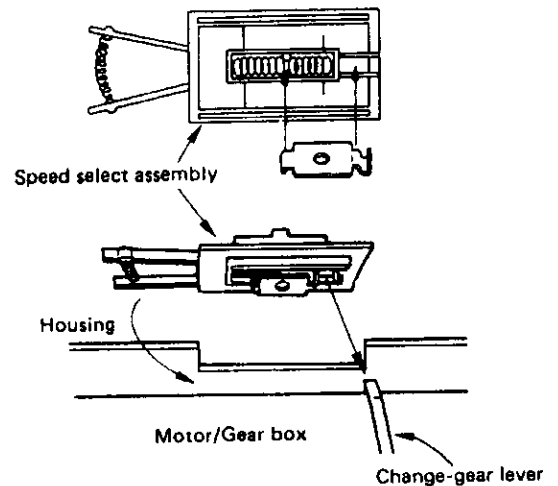
1. Remove the seven housing screws.



2. Separate Housings and remove the speed select assembly.

Caution: The speed select assembly mechanism may fall out during disassembly, note proper positioning for reassembly.

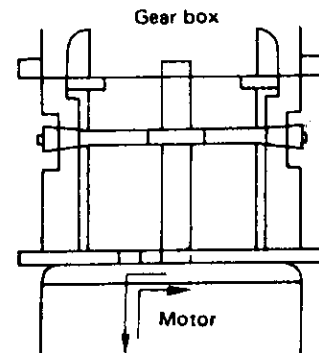
Note: The springs in the speed select assembly are very lively and could be lost, handle accordingly.



(Motor Removal/Replacement)

1. Remove motor with gear box from housing.

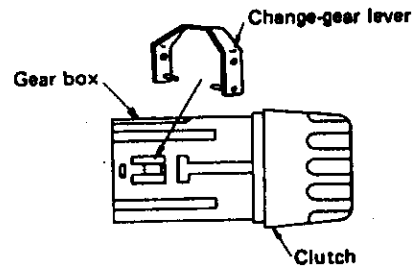
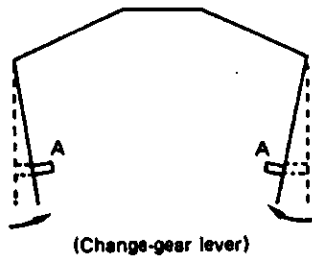
2. Separate motor from gear box by twisting motor to unlock tabs.



(Change-Gear Lever Replacement)

When inserting the change-gear lever into the housing of gear box, the projection A at both ends of the lever be put the groove of the ring gear which can be seen through the small hole at the side of gear-box housing.

*To put the projection A firmly into the groove, it is advisable to slightly bend the lever inside.



(Main Switch Replacement)

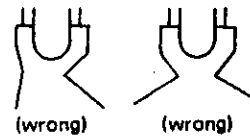
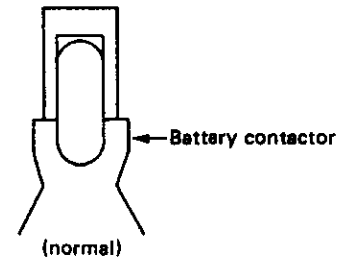
1. When reassembling the main switch, the battery contactors (extending from the switch) must be properly bent.

If the contactors are not bent out, damage could result when battery is inserted.

After reassembling housings A and B, look into battery recess to note if battery contactor tops have aligned to respective notched locations.

Also dress wires in the housing to avoid pinching.

(Front view)

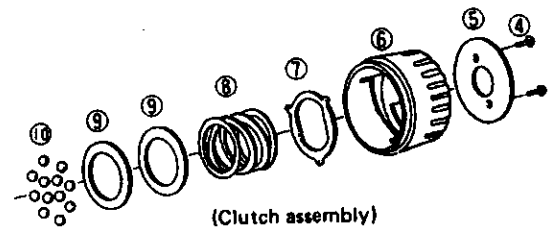


(Clutch Removal)

1. Remove the 2 clutch holding screws.

2. Remove clutch handle with clutch plate and spring.

Caution: When removing clutch spring, 6 sets (12 pcs) of ball bearings may fall out. When reinstalling, place 1 set into each of the six holes.



(Battery Charger Disassembly)

1. Remove the 4 holding screws and separate housings.

(Battery Charger Assembly)

1. Avoid pinching wires, dress into housing recess and around screw posts etc.

Note: When reassembling, be certain that LED appears through the hole in Housing A.

2. After reassembly, test for proper voltage at battery terminals (+ and - for approx. 11.7V DC).

