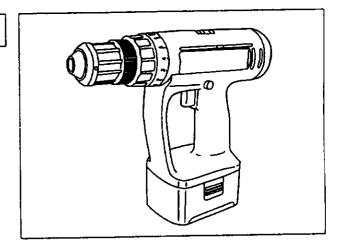
Service Mar

Cordless Hammer Drill & Driver

EY6930

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SPECIFICATIONS

DRILL/DRIVER

M3.5 - M6(Screw driving) : Machine screw Capability

 $\phi 2.1 - \phi 6.8mm (5/64" - 17/64")$ Wood screw ø3.0 - ø13.0mm (1/8" − 1/2")

: Mortal brick (Drilling) $\phi 3.0 - \phi 27.0 \text{mm} \quad (1/8" - 1/32")$ Wood \$1.5 - \$13.0mm (1/16" - 1/2") Steal

: 15.6V DC Motor voltage

LOW : $70 \sim 570 \, \text{min}^{-1} \, (\text{r.p.m.})$ HIGH : $270 \sim 2,000 \, \text{min}^{-1} \, (\text{r.p.m.})$ No Toad speed

LOW : $1,050 - 8,550 \, \text{min}^{-1} \, (b.p.m.)$ Blows rate per minute HIGH: $4,050 - 30,000 \, \text{min}^{-1} \, (b.p.m.)$

: 1.5mm - 13mm (1/16" - 1/2") Chuck capacity LOW : 22.5Nm (230kg-cm, 199in.lbs.) Maximum torque HIGH: 5.9Nm (60kg-cm, 52in.1bs.)

: 1,7kN (170kgf, 3701bs.f) Blow strength : 263mm (10-1/64") Overall length

: 2.35kg (5.21bs.) (with battery pack) Weight BATTERY PACK

: Ni-Cd battery Storage battery : 15.6V DC ($1.2V \times 13$ cells) Battery voltage

: 1.0kg Weight

BATTERY CHARGER : 120V AC Input

Weight

: 1.70kg (3.801bs.) : Approx. 30 min. for EY9136 Charging time

STANDARD EQUIPMENT

Battery charger , Battery pack , Tool case

Panasonic

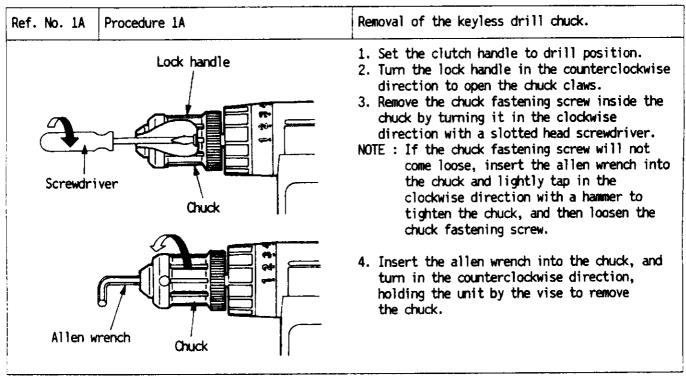
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A WARNING

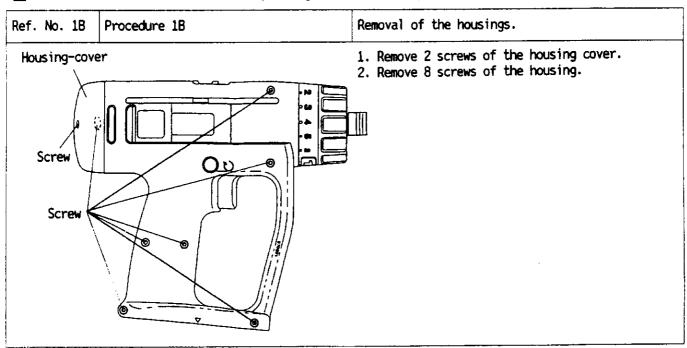
This service literature is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be 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.

DISASSEMBLY INSTRUCTIONS

■ HOW TO REMOVE THE KEYLESS DRILL CHUCK.

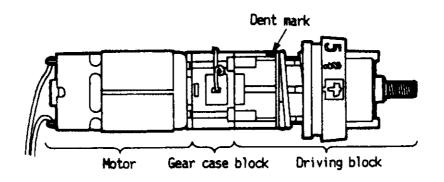


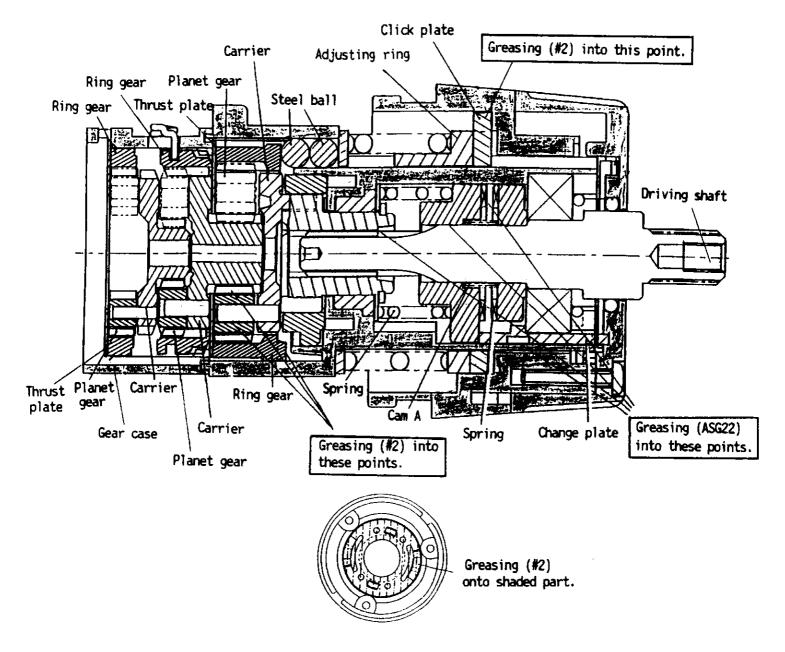
■ HOW TO DISASSEMBLE THE MAIN UNIT. (Housing AB set can be opened without disassembling the chuck.)



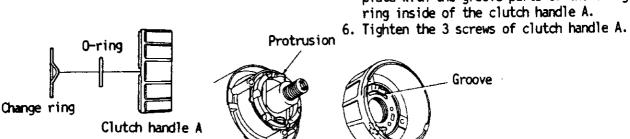
		Model EY6930
Ref. No. 28	Procedure 1B → 2B	Removal or assembly of the motor.
		(Removal of the motor.)1. Remove the motor with the gear block from the housing.2. Separate the motor from the gear block by twisting the motor to unlock tabs.
	Raised line	(Assembly of the motor.)3. Align the raised line of the gear block with the line of the motor.
Ref. No. 3B	Procedure 1B → 2B → 3B	Removal of the driving block.
Pin	Dent mark Clutch handle 8	 Set the clutch handle B to position 1 before replacing the driving block from the housing. Loosen 3 screws of clutch handle A and remove the clutch handle from the driving block. Pull out 2 pins (\$\phi 2 \times 31.8) by pressing down on the clutch handle B and the driving shaft. After removing the clutch handle B, the internal parts of the driving block can be removed one after another. driving shaft → spring → change plate (2pcs) → cam A → vibration spring → click plate → adjust ring → clutch spring → clutch plate → steel ball (12pcs) → roller pin (6pcs)
Roller pin	Clutch spring Steel ball Adjus	Spring t ring O-ring Change ring Clutch handle A Clutch handle B

ASSEMBLY INSTRUCTIONS



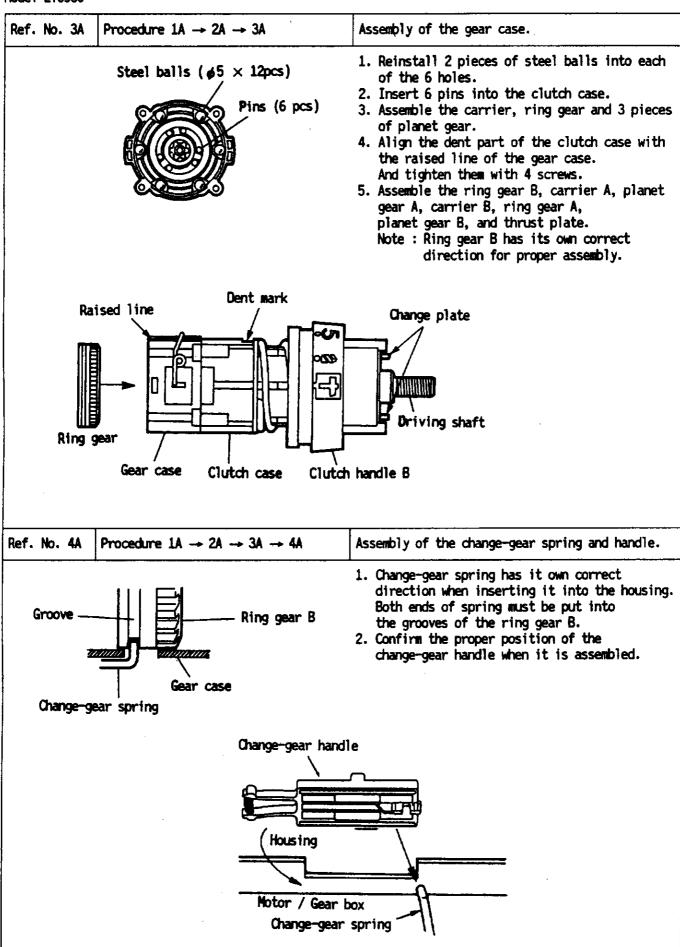


Model EY6930 ■ HOW TO ASSEMBLE THE DRIVING BLOCK AND GEAR CASE ASSEMBLY. Assembly of the driving block. Ref. No. 1A Procedure 1A 2. The click plate has its own correct direction 1. Assemble the clutch plate, clutch spring, and for proper assembly. the adjust ring to the outside of the clutch Adjust the (A) groove of the clutch case to case. the protrusion part of the click plate. Dent mark Protrusion Protrusion Roundish side Clutch case plate Clutch spring Click plate Clutch handle side Motor side (A) Groove 5. Insert the spring to the driving shaft and 3. Assemble the vibration spring and cam A into assemble them to the clutch case. the clutch case. 4. When assembling the change plates, make sure that the protrusion side of the change plates Protrusion face inside of the clutch case. Driving shaft Spring Change plate Clutch case Vibration spring Procedure 1A → 2A Assembly of the clutch handle. Ref. No. 2A 1. Set the clutch handle B to position 1 toward the dent part of the clutch case. 2. Insert 2 pins (ϕ 2 \times 31.8) by pressing down Raised line the clutch handle B and the driving shaft. Dent mark 3. The change ring has its own correct direction. Confirm the direction when the change ring is inserted into the clutch handle. 4. Select the clutch handle B to the hammer position before assembling the clutch handle A to the gear block. 5. Adjust the protrusion parts of the change Clutch handle B plate with the groove parts of the change

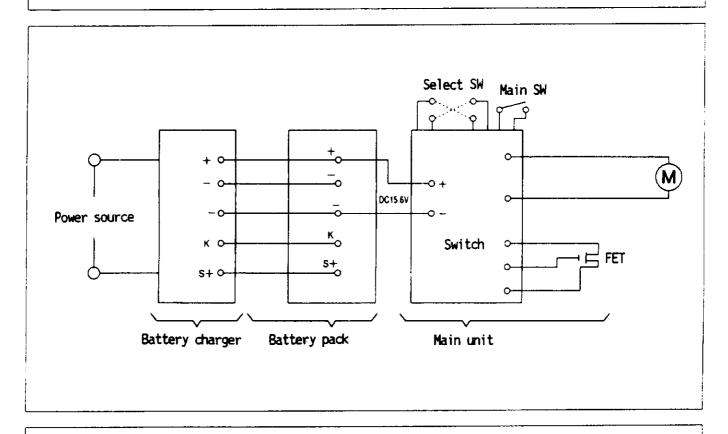


Groove -

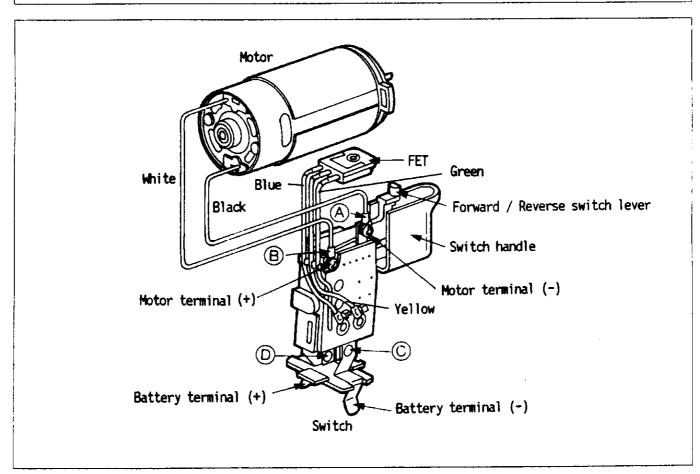
ring inside of the clutch handle A.

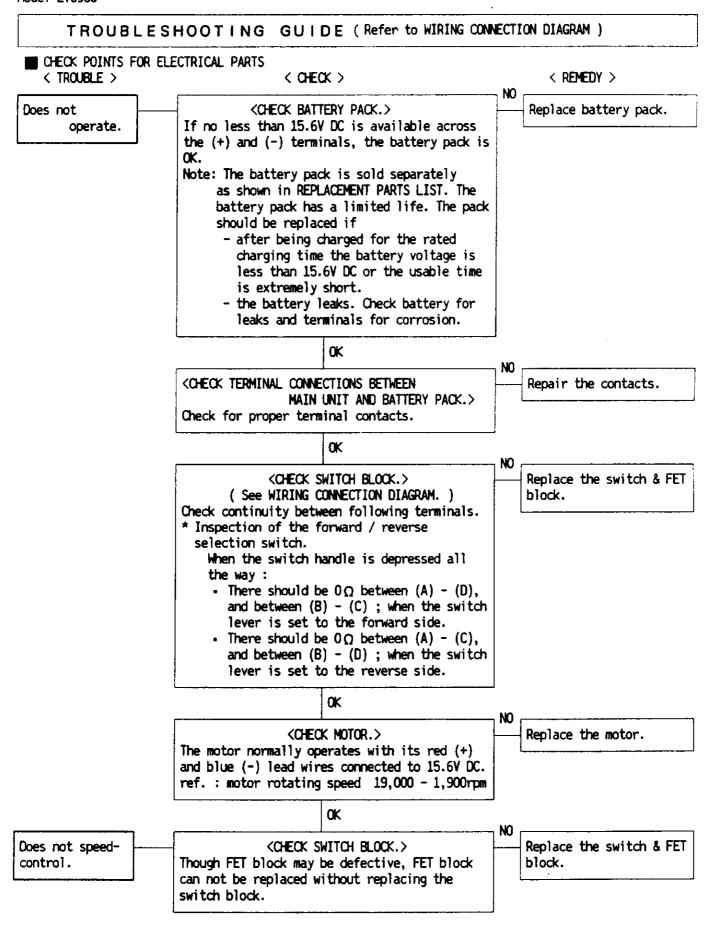


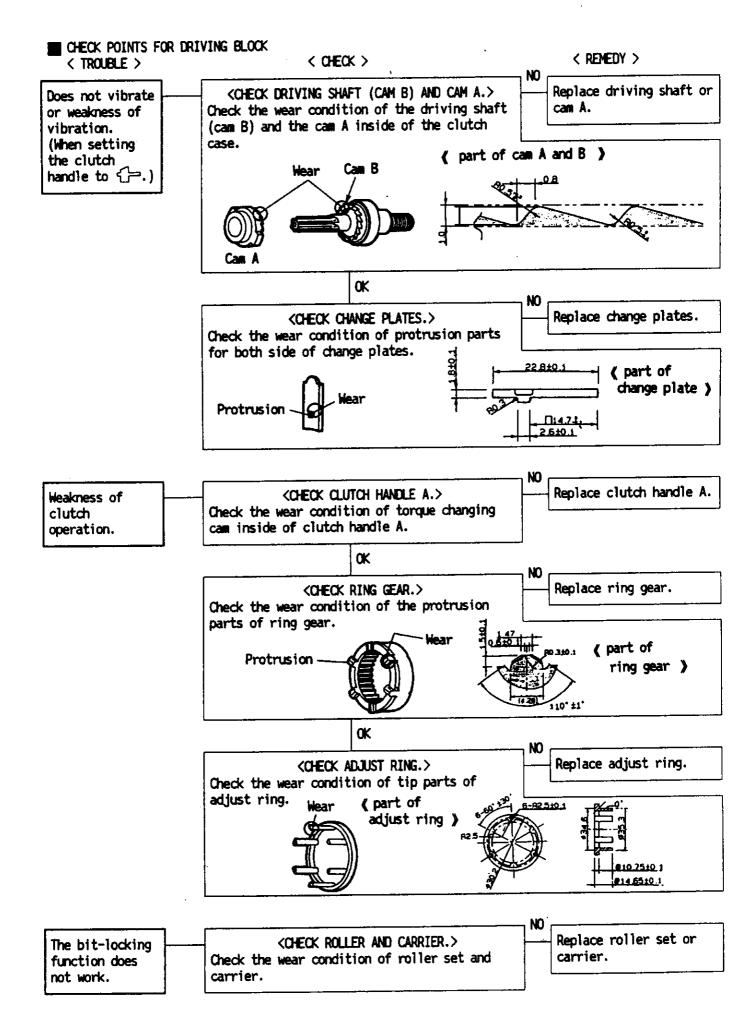
SCHEMATIC DIAGRAM



WIRING CONNECTION DIAGRAM







TRIAL OPERATION (After checking TROUBLESHOOTING GUIDE.)

① Check the vibrating operation by setting the clutch handle to 👉 , then touching the bit on a board.

Impact rate per minutes : HIGH 4,050 - 30,000 b.p.m. LOW 1,050 - 8,850 b.p.m.

Impact strength : 1,7kN (170kgf)

② Check the clutch operation by setting the clutch handle between 1 - 5.

clutch torque : 5 steps (approx. 1.0 - 1.5 - 2.5 - 3.4 - 4.4 Nm)

(approx. 10 - 15 - 25 - 34 - 45 kg-cm)

4 Check the speed control in proportion to the depression amount of the switch handle.

LOW : approx. 270 - 2,000 r.p.m. HIGH : approx. 70 - 570 r.p.m.

(5) Check the operation by selecting the forward or reverse switch.

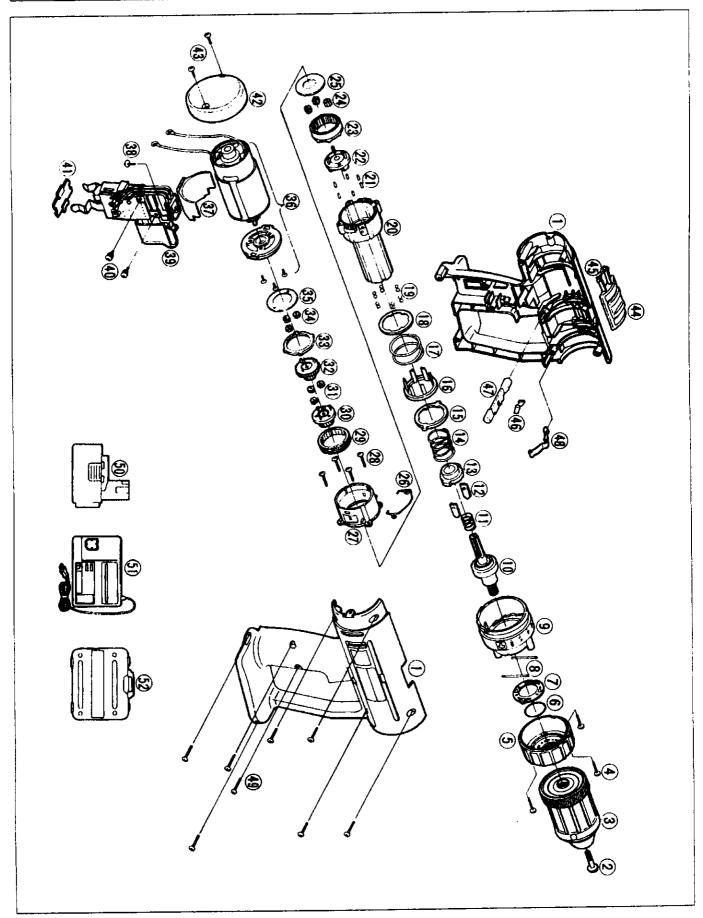
6 Check if the 3 chuck claws open or close smoothly by turning lock handle.

chuck capacity : ø 1.5 - 13 mm

To Screwdriver bit locks in place, check if it is locked and can be used as a manual screwdriver.

torque : max. 22.6Nm (230kgf-cm)

EXPLODED, VIEW



REPLACEMENT PARTS LIST

NOTE: *A · · · available as an optional accessory

*B · · · only available as set *C · · available individually

Ref. No.	Part No.	Part Name & Descriptions	Per unit]	Remarks
A 1	EY6930K3078	HOUSING AB SET	1	T	
2	EY6230L6817	CHUCK FASTENING SCREW	1	1	
3	EY6930K7917	KEYLESS DRILL CHUCK	1		
4	EY6930K9157	SCREW	3	*C	
5	EY6901H3227	CLUTCH HANDLE A	1	1	
6	EY509B0977	O-RING	1 1	†	
7	EY6901L0567	CHANGE RING	1	 	<u> </u>
8	EY6901L0357	PIN	2	*B	(2PCS/PACK)
9	EY6930H3258	CLUTCH HANDLE B	1	+ -	(El Voi I Non)
10	EY6901L1137	DRIVING SHAFT		+	
11	EY6900B0177	SPRING	1	\vdash	
12	EY6901L0907	CHANGE PLATE	2	*B	(2PCS/PACK)
13	EY6901L1387	CAM A	1	170	(ZFOO/FAOIL)
14	EY6901L0197	SPRING	<u> </u>	+	
	· · · · · · · · · · · · · · · · · · ·		- 	+	
15	EY6901L0457	CLICK PLATE		-	
16	EY6901L0637	ADJUST RING	1	-	
17	EY6901L0167	CLUTCH SPRING	1 1	\vdash	
18	EY6901L0577	CLUTCH PLATE	1 10	145	(40000 (D40K)
19	EY560B6967	STEEL BALL	12	∗ B	(12PCS/PACK)
20	EY6901L1797	CLUTCH CASE	1	1.5	(0000 (010))
21	EY6705L0377	ROLLER PIN	6	*B	(6PCS/PACK)
22	EY6901L1107	CARRIER	1		
23	EY6901L1477	RING GEAR	1	ļ	
24	EY6900B1347	PLANET GEAR SET	3	<u>*B</u>	(3PCS/PACK)
25	EY6200B0857	THRUST PLATE	1	<u> </u>	
26	EY6207B1517	CHANGE-GEAR SPRING	1		
27	EY6700B1768	GEAR CASE	11		
28	EY6930L9577	SCREW	4	*C	
29	EY560B1467	RING GEAR B	1		
30	EY6401L1357	CARRIER	1	I	
31	EY6200B1357	PLANET GEAR	3	*B	(3PCS/PACK)
32	EY6900B1127	CARRIER B	1		
33	EY6930B1457	RING GEAR A	1	1	
34	EY560B1367	PLANET GEAR B	3	*B	(3PCS/PACK)
35	EY6901L0887	THRUST PLATE	1		
36	EY6930L1008	MOTOR	1		
37	EY6901L2567	RADIATING PLATE	1		
38	EY6230L6017	SEMS SCREW	1		
▲39	EY6230Y2008	SWITCH BLOCK		-	1
40	EY6230L6037	SENS SCREW	2	*C	
41	EY6230L0207	DUST PREVENTIVE PLATE	1	-	
42	EY6230H3107	HOUSING COVER		 	
43	EY6230K9038	SCREW	2	*C	-
44	EY6901H3237	CHANGE-GEAR HANDLE	1		
45	EY560B0187	SPRING	1		
▲ 46	EY6481L0177	CLICK SPRING	1		
47	EY6901H3247	FORWARD/REVERSE SELECTOR HANDLE	1		
48	EY6930L0177	CLICK SPRING A	1		:
4 6 4 9	EY6230K9218	SCREW	9	*C	
50			9		ACCESCODY
	EY9136	BATTERY PACK		*A	ACCESSORY
51	EY0212	BATTERY CHARGER	1 1	*A	ACCESSORY
52	EY9630	TOOL CASE	1 1		
<u> </u>	EY6930K8008	INDIVIDUAL BOX	1		
A -	EY6930K8108	OPERATING INSTRUCTIONS	1 1		