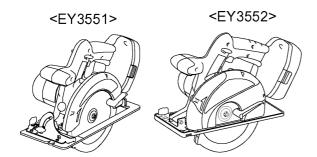
# Service Manual

**Cordless Wood Saw / Cordless Metal Cutter** 



EY3551-U1 EY3552-U1

#### **SPECIFICATIONS**

#### ΜΔΙΝ ΙΙΝΙΤ

MAIN CIVIT						
Model		EY3551	EY3552			
Motor		DC Motor 18V				
Blade speed		2900/min (rpm)				
Blade size	Outside diameter	165mm (6-1/2")				
	Arbor size	20mm (25/32")				
Maximum cutting depth		3 ~ 56mm (1/8" ~2-7/32") (Ø165mm blade)				
Maximum Ci	atting depth	* 50° angle cutting 32mm (1-9/32")	-			
		375 X 200 X 264 mm	345 X 198 X 264 mm			
Dimensions	(L X W X H)	(14-3/4" X 7-7/8" X 10-13/32")	(13-37/64" X 7-51/64" X 10-25/64")			
Cutting angle adjustment		0 ~ 50°	-			
Weight (with battery pack)		4kg (8.82lbs.) with EY9251	4kg (8.82lbs.) with EY9251			

#### **⚠ 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.

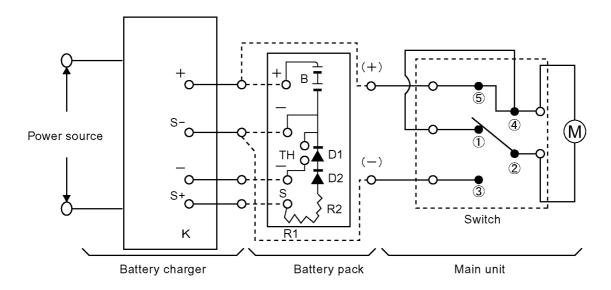
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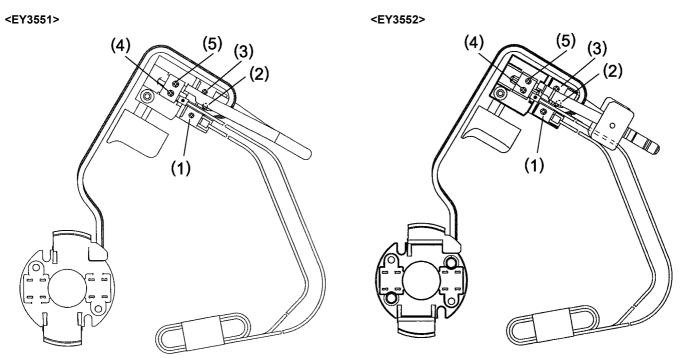
# **Panasonic**®

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# 1 SCHEMATIC DIAGRAM

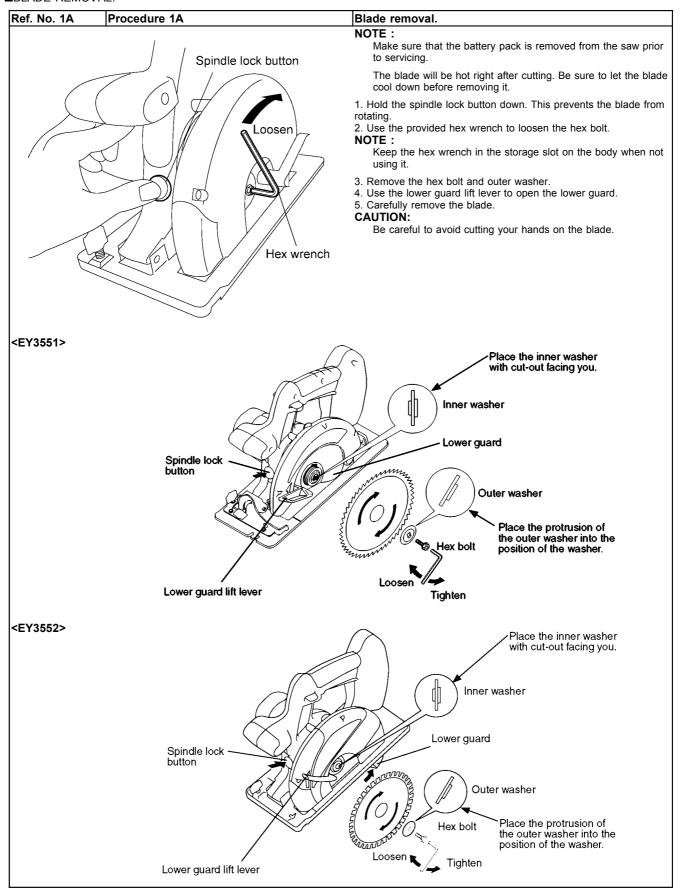


# **2 WIRING CONNECTION DIAGRAM**

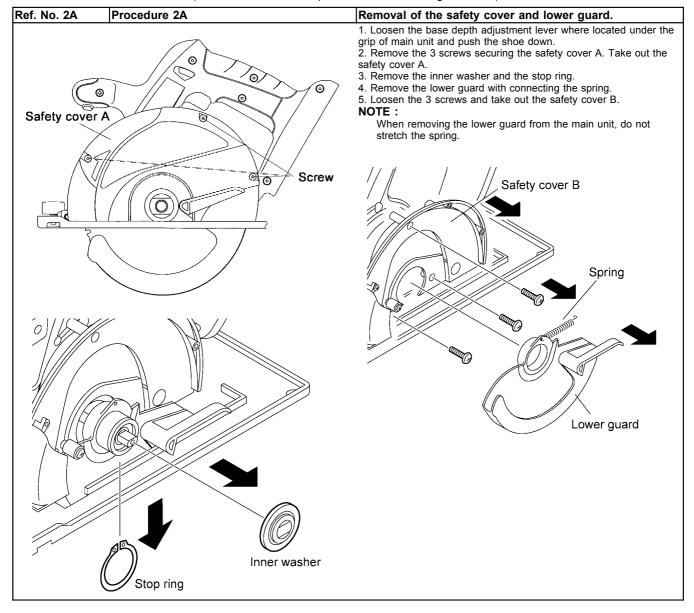


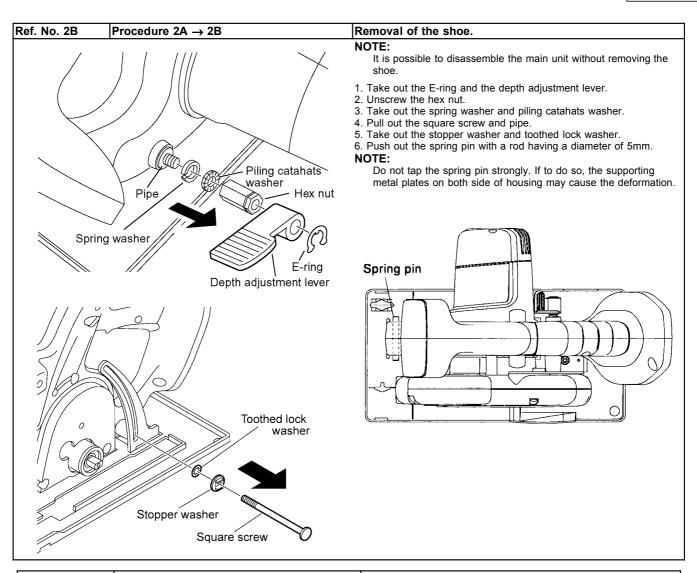
# 3 DISASSEMBLY INSTRUCTIONS

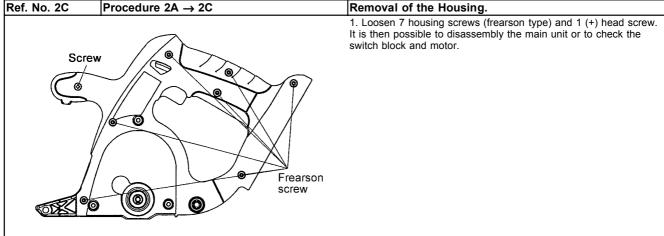
#### ■BLADE REMOVAL.

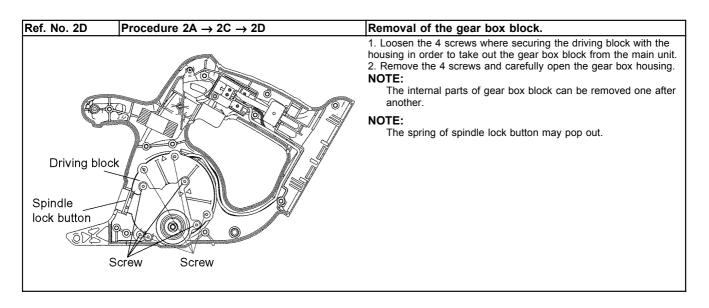


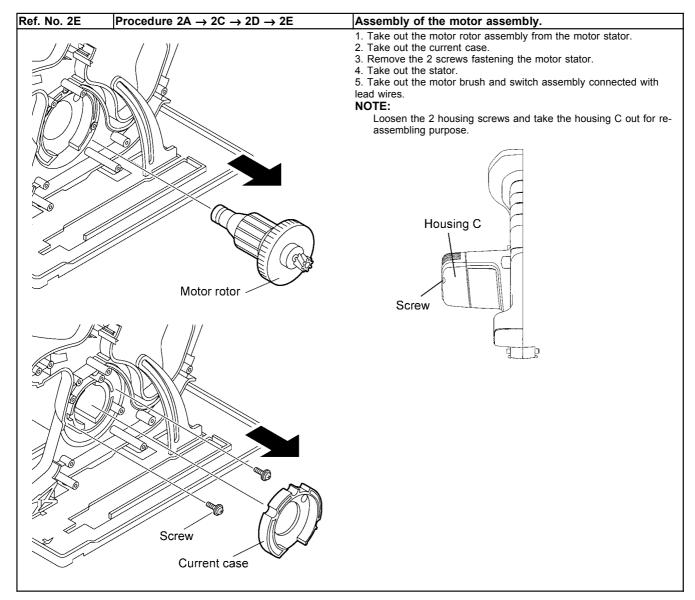
■MAIN UNIT DISASSEMBLY. (The main unit can be opened without removing the shoe.)









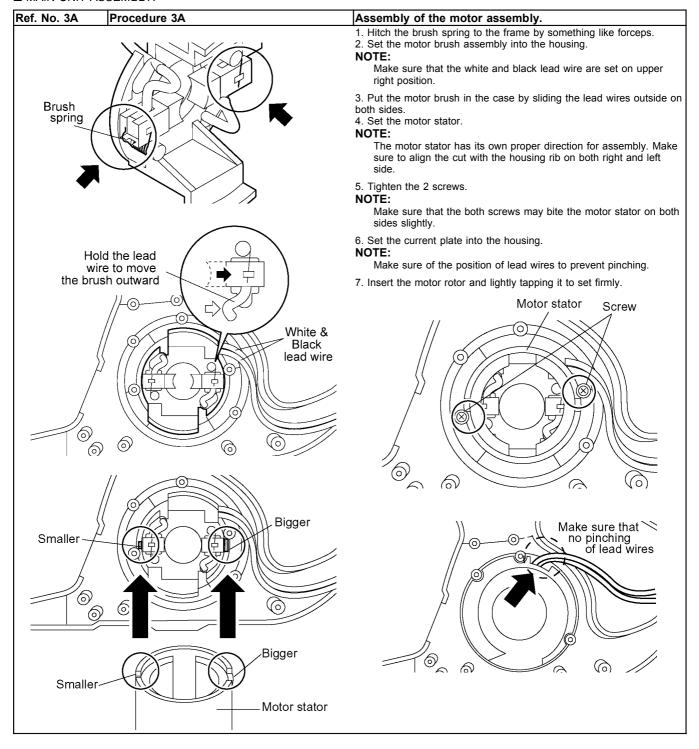


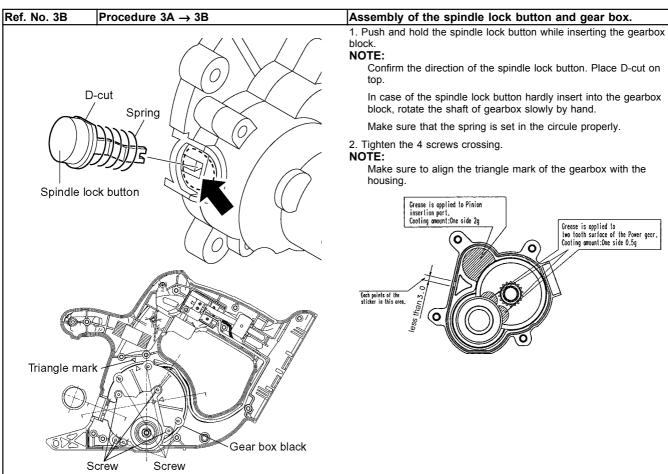
# **4 ASSEMBLY INSTRUCTIONS**

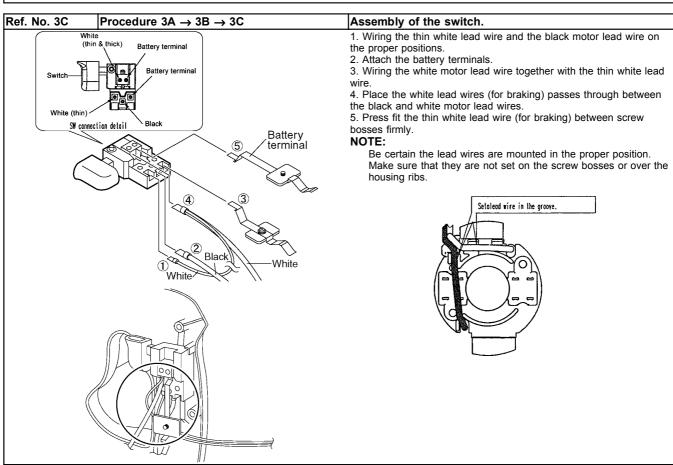
#### **CAUTION:**

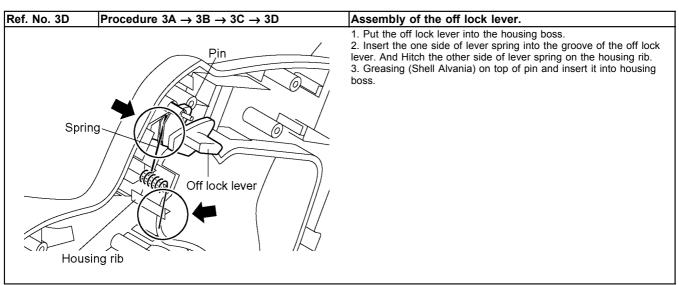
The proper operation of the "off lock lever" is critical for the safe use and operation of the saw/cutter. Be extra careful in reassembling the unit and ensure that the "off lock lever" is properly positioned. Verify the operation of the "off lock lever" upon completing the re-assembly procedure. Ensure that the power switch can only be activated after depressing the "off lock lever".

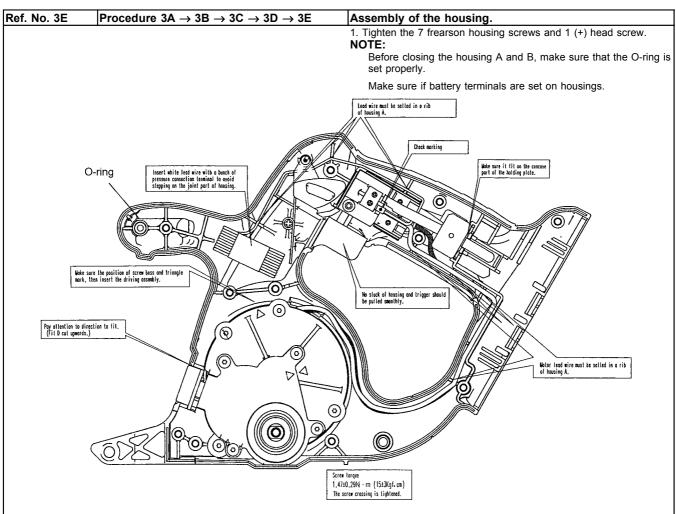
■ MAIN UNIT ASSEMBLY.

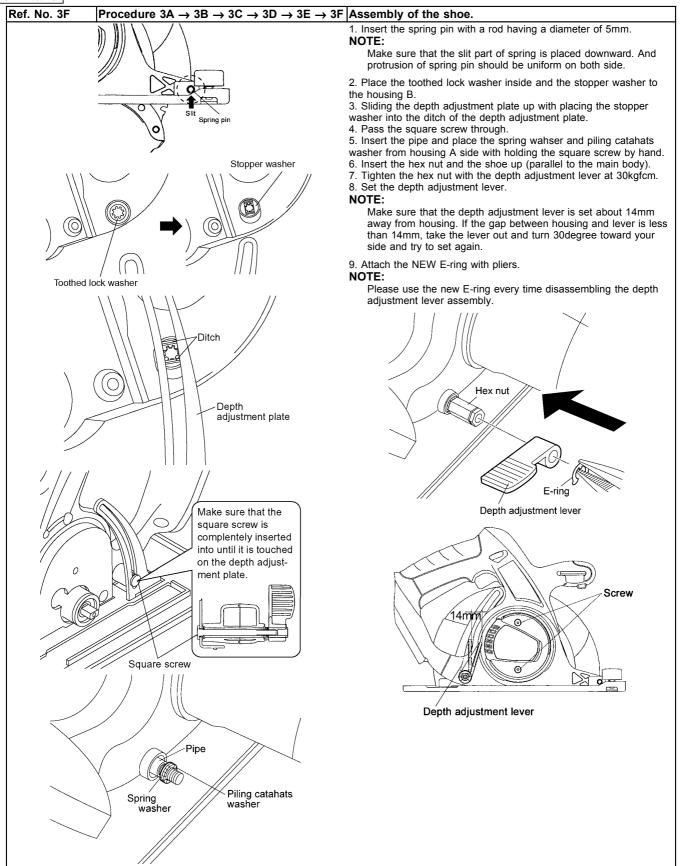




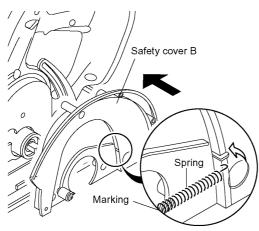


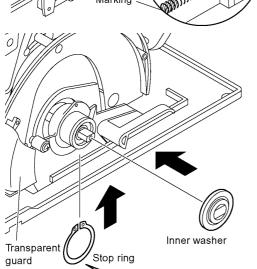






#### Ref. No. 3G Procedure $3A \rightarrow 3B \rightarrow 3C \rightarrow 3D \rightarrow 3E \rightarrow 3F$ Assembly of the blade guard assembly. → 3G





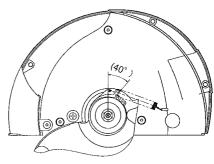
- 1. Set the safty cover B with connecting the transparent guard and tighten the 3 screws. (EY3552)
- 2. Hang the one side of spring (without marking side) on the safety cover B.
- 3. Lightly greasing (ALVANIA) around the internal diameter and the external diameter on the rear side of the lower guard.
- 4. Hang the other side of spring on the lower guard and set it to the main unit.
- 5. Set the stop ring.

#### NOTE:

The stop ring has its own direction for assembly. Make sure that the rounded side faces housing.

And make sure that 2 holes of stop ring should be placed upper

- 6. Set the safety cover A and tighten the 3 screws with 25kgfcm.
- 7. Set the inner washer and carefully set the blade.8. Set the outer washer and tighten the hex bolt using the provided hex wrench with holding the spindle lock button.



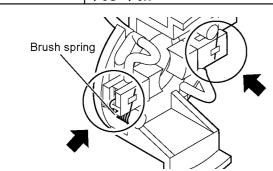
#### Ref. No. 3H Procedure $3A \rightarrow 3B \rightarrow 3C \rightarrow 3D \rightarrow 3E \rightarrow 3F$ Assembly of the motor housing. $\rightarrow$ 3G $\rightarrow$ 3H

edge

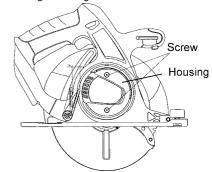
- A Section >

blade side

housing side

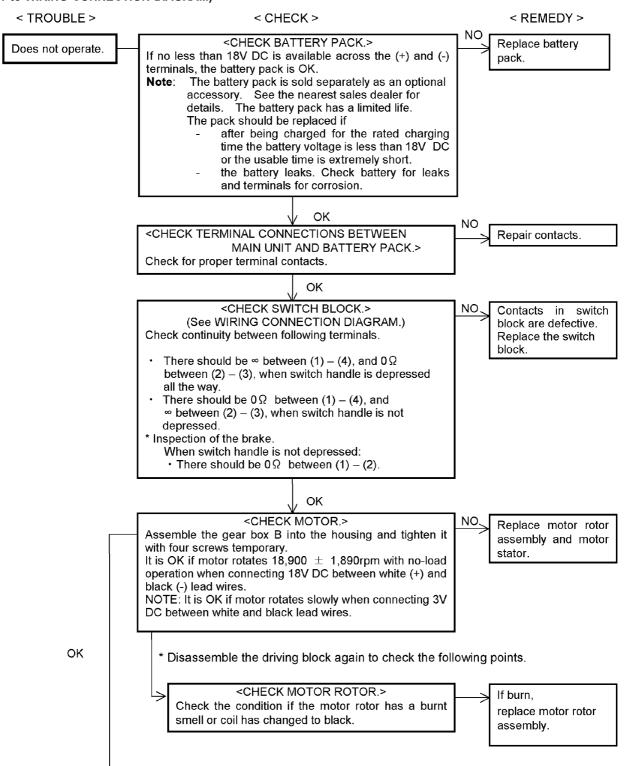


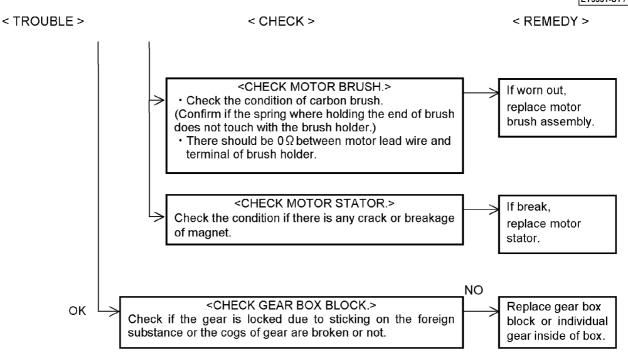
- 1. Return the brush spring into the groove of the motor brush on
- 2. Attach the housing C and tighten the 2 screws with 15kgfcm.

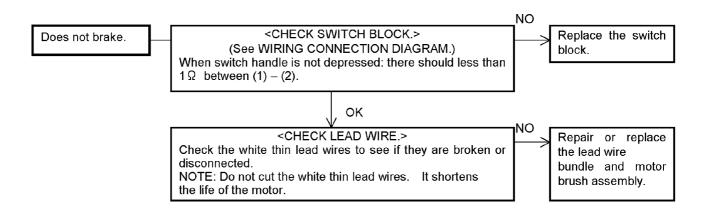


# 5 TROUBLESHOOTING GUIDE

(Refer to WIRING CONNECTION DIAGRAM)

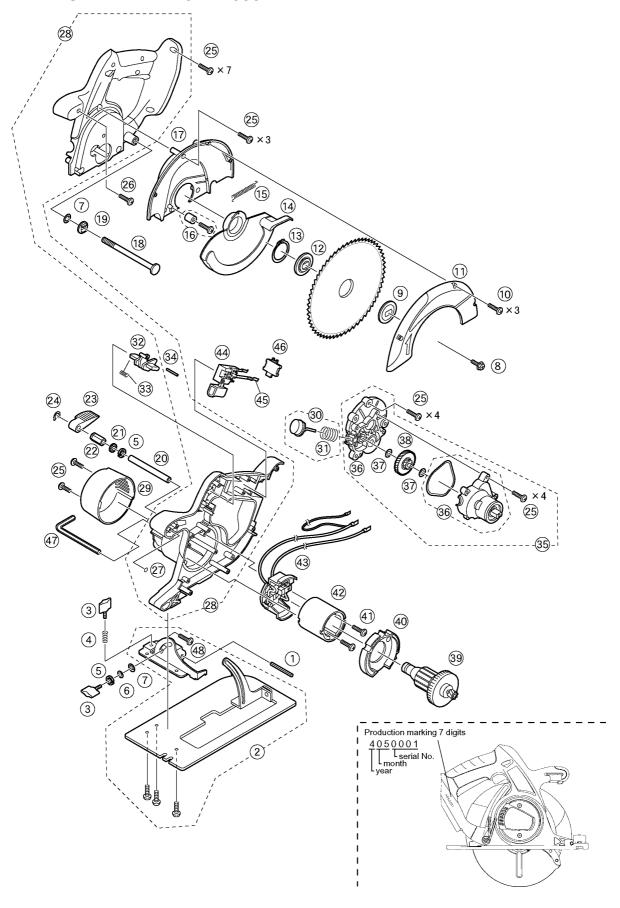






# 6 EXPLODED VIEW & REPLACEMENT PARTS LIST

# 6.1. EXPLODED VIEW for EY3551



## 6.2. REPLACEMENT PARTS LIST for EY3551

#### NOTE:

\*B=only available as set

\*C=available individually

Ref.No.	Part No.	Part Name & Description	+	Remarks		Per Uni
1	EY3500K0357	SPRING PIN		Φ 6- <b>4</b> 5		1
2	WEY3551S3428	BASE			<b>A</b>	1
3	EY3503K6487	ADJUSTING BOLT	*C	M5*10		2
4	EY3503K0197	SPRING		Φ 7.6*15		1
5	WEY3552S6388	SPRING WASHER	*C	<i>Φ</i> 5	<b>A</b>	2
6	WEY3551S6398	PLAIN WASHER		<b>Φ</b> 5	<b>A</b>	1
7	WEY3552K6648	TOOTHED LOCK WASHER	*C		<b>A</b>	2
8	WEY3552S6258	FLANGE SOCKET		M5*12	•	1
9	WEY3552K1178	OUTER WASHER			•	1
10	WEY3552K6208	ALUMINUM TIGHT SCREW	*C	4*16	•	3
11	WEY3551S3108	SAFETY COVER A			<b>A</b>	1
12	WEY3552L1168	INNER WASHER			<b>A</b>	1
13	EY3503L0427	STOP RING				1
14	WEY3551Y1198	LOWER GUARD			<b>A</b>	1
15	WEY3552L0928	SPRING		Φ5.9*49		1
16	WEY3552K0398	LOWER GUARD STOPPER		1	_	1
17	WEY355183118	SAFETY COVER B	+		_	1
18	WEY3503L6537	SQUARE SCREW	+			1
19	WEY3552S6688	STOPPER WASHER	+			1
20	WEY3552L0078	PIPE	+	Φ 8	1	1
21	WEY3552K6698	PILING CATAHATS WASHER	+	Ψ δ		1
22	WEY3552S6348	DEPTH ADJUSTING NUT			1	1
23	+		-	+		1
	WEY3552Y0897	DEPTH ADJUSTMENT LEVER	+	+	<b>A</b>	1
24	WEY3552S0168	E RING	a			
25	EY3503K6208	FREARSON SCREW	*C	K4*20		20
26	WEY3552K9078	TAPPING SCREW	_	K4*25	<b>A</b>	1
27	EY3530L0977	O RING		_		1
28	WEY3551K3078	HOUSING AB SET				1
29	WEY3551K3088	HOUSING C	_	_	<b>A</b>	1
30	WEY3552Y0368	SPINDLE LOCK BUTTON			<b>A</b>	1
31	WEY3552L0168	LOCK BUTTON SPRING		16.6*19.8	<b>A</b>	1
32	WEYT502Y1587	OFF LOCK LEVER			•	1
33	WEYT502L0917	OFF LOCK SPRING			<b>A</b>	1
34	WEY3552L0508	PIN		Φ1.5	<b>A</b>	1
35	WEY3552L1458	GEAR BOX ASSEMBLY			<b>A</b>	1
36	WEY3552L1768	GEAR BOX			<b>A</b>	1
37	EY3503L0847	THRUST PLATE	*C			2
38	WEY3552L1438	MID GEAR			<b>A</b>	1
39	WEY3552L1468	MOTOR ROTOR ASSEMBLY			<b>A</b>	1
40	WEY3552L0448	CURRENT PLATE			<b>A</b>	1
41	WEY3552S9038	P TIGHT SCREW	*B	K3*20(2PCS/PK)	<b>A</b>	2
42	WEY3552L1188	STATOR			<b>A</b>	1
43	WEY3552L2308	BRUSH ASSEMBLY			<b>A</b>	1
44	WEY3551Y2008	SWITCH			<b>A</b>	1
45	WEY3551S0068	BATTERY CONTACTS			<b>A</b>	1
46	EY6230L0207	DUST PREVENTIVE PLATE	1		_	1
47	WEY3552K7868	HEX WRENCH	+		_	1
48	WEY355186298	SET SCREW	1			1
-	WEY3552K7018	TOOL CASE	+			1
	WEY3551K8008	INDIVIDUAL BOX	+		1	1
			+	+		
-	WEY3551K8108	OPERATING INSTRUCTIONS		1	<b>A</b>	1

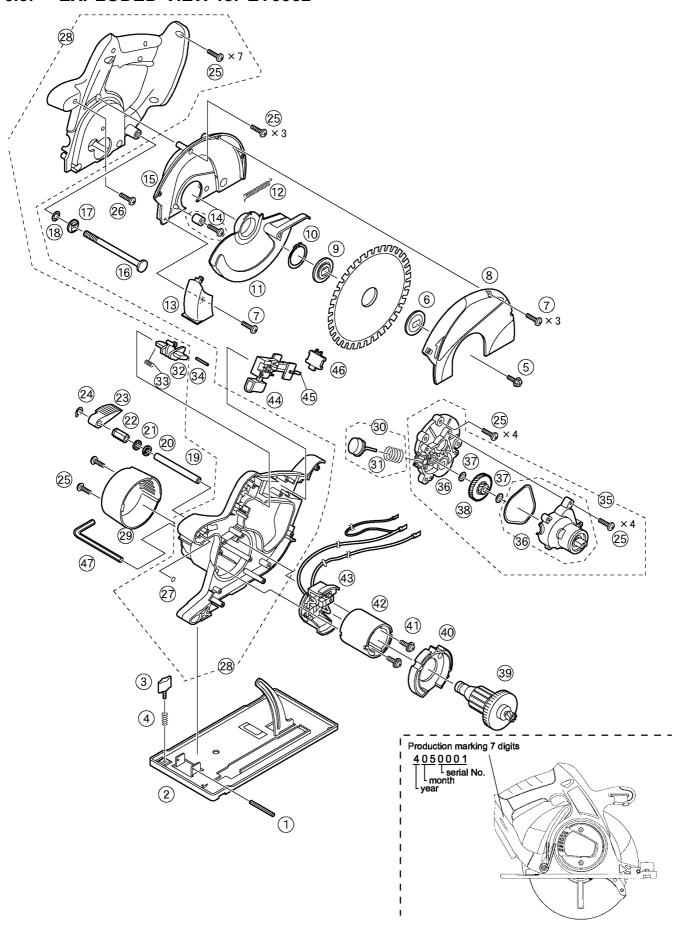
<sup>\*\*</sup>Battery Pack, and Tool Case are available as an optional accessory.

See the nearest sales dealer for details.

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

<sup>\*\*\*</sup>For replacement parts of charger, see the charger service manual.

## 6.3. EXPLODED VIEW for EY3552



## 6.4. REPLACEMENT PARTS LIST for EY3552

#### NOTE:

\*B=only available as set

\*C=available individually

Ref.No.	Part No.	Part Name & Description		Remarks		Per Unit
1	EY3500K0357	SPRING PIN		Φ 6-45		1
2	WEY3552S3428	BASE			<b>A</b>	1
3	EY3503K6487	ADJUSTING BOLT		M5*10		1
4	EY3503K0197	SPRING		Φ 7.6*15		1
5	WEY3552S6258	FLANGE SOCKET		M5*12	<b>A</b>	1
6	WEY3552K1178	OUTER WASHER			<b>A</b>	1
7	WEY3552K6208	ALUMINUM TIGHT SCREW	*C	4*16	<b>A</b>	4
8	WEY3552S3108	SAFETY COVER A			<b>A</b>	1
9	WEY3552L1168	INNER WASHER			<b>A</b>	1
10	EY3503L0427	STOP RING				1
11	WEY3552Y1198	LOWER GUARD			<b>A</b>	1
12	WEY3552L0928	SPRING		Φ 5.9*49	<b>A</b>	1
13	WEY3552X3118	TRANSPARENT COVER		<u> </u>	<u> </u>	1
14	WEY3552K0398	LOWER GUARD STOPPER			<b>A</b>	1
15	WEY3552S3118	SAFETY COVER B			_	1
16	WEY3503L6537	SQUARE SCREW			_	1
17	WEY3552S6688	STOPPER WASHER	†		_	1
18	WEY3552K6648	TOOTHED LOCK WASHER	+	Φ 5	_	1
19	WEY3552L0078	PIPE		Φ 8	_	1
20	WEY3552S6388	SPRING WASHER		Φ 5	_	1
21	WEY3552K6698	PILING CATAHATS WASHER	+	, v 3	_	1
22	WEY355286348	DEPTH ADJUSTING NUT	1			1
23	WEY3552Y0897	DEPTH ADJUSTMENT LEVER	+	+		1
24	WEY355280168	E RING			1	1
25	EY3503K6208	FREARSON SCREW	*C	K4*20		20
26	WEY3552K9078	TAPPING SCREW	+ "-	K4*25	<b>A</b>	1
27	EY3530L0977	O RING		K4"25	_	1
28	WEY3552K3078	HOUSING AB SET		+	<b>A</b>	1
29		HOUSING AB SEI		+	1	1
	WEY3552K3088		+	+	_	1
30 31	WEY3552Y0368 WEY3552L0168	SPINDLE LOCK BUTTON LOCK BUTTON SPRING	+	16.6*19.8	<b>A</b>	1
32			1	10.0-19.0	1	1
33	WEYT502Y1587 WEYT502L0917	OFF LOCK LEVER OFF LOCK SPRING	+	+	1	1
			+	0.1.5	1	
34	WEY3552L0508	PIN DOW AGGINGLY	+	Φ 1.5		1
35 36	WEY3552L1458	GEAR BOX ASSEMBLY GEAR BOX	+	+	<b>A</b>	1
	WEY3552L1768		+0	+	_	2
37	EY3503L0847	THRUST PLATE	*C	+		
38	WEY3552L1438	MID GEAR	+	+		1
39	WEY3552L1468	MOTOR ROTOR ASSEMBLY	+	+		1
40	WEY3552L0448	CURRENT PLATE	+	#3+00 (0pgg (pg)	<b>A</b>	1
41	WEY3552S9038	P TIGHT SCREW	*B	K3*20(2PCS/PK)		2
42	WEY3552L1188	STATOR	+		<b>A</b>	1
43	WEY3552L2308	BRUSH ASSEMBLY	+	+	<b>A</b>	1
44	WEY3552Y2008	SWITCH	+	+	<b>A</b>	1
45	WEY3552S0068	BATTERY CONTACTS	+	+	<b>A</b>	1
46	EY6230L0207	DUST PREVENTIVE PLATE	+	+		1
47	WEY3552K7868	HEX WRENCH	+	1		1
-	WEY3552K7018	TOOL CASE	+			1
-	WEY3552K8008	INDIVIDUAL BOX		-		1
-	WEY3552K8108	OPERATING INSTRUCTIONS	1		<b>A</b>	1

<sup>\*\*</sup>Battery Pack, 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.

<sup>\*\*\*</sup>For replacement parts of charger, see the charger service manual.