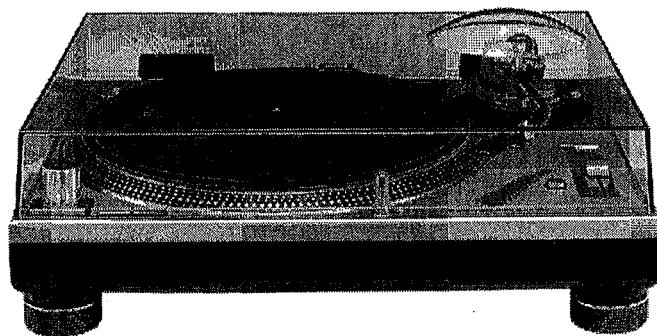


Service Manual

Turntable System



SL-1200MK5E
SL-1210MK5E
SL-1200MK5EB
SL-1210MK5EB
SL-1200MK5GN
SL-1210MK5GN
SL-1200MK5PP
SL-1210MK5PP

Colour

Silver Type: SL-1200MK5

Black Type: SL-1210MK5

Specifications

TURNTABLE SECTION

Type:	Quartz direct drive Manual turntable
Drive method:	Direct drive
Motor:	Brushless DC motor
Turntable platter:	Aluminum diecast Diameter 33.2cm (13-5/64") Mass 1.7kg (3.74lb.)
Turntable speeds:	33-1/3 r/min, 45 r/min
Variable range pitch:	±8%
Starting torque:	1.5kg-cm (1.3lb-in)
Build-up characteristics:	0.7s, from standstill to 33-1/3 r/min
Braking system:	Electronic brake
Wow and flutter:	0.01% WRMS* 0.025% WRMS (JIS C5521) ±0.035% peak (IEC 98A Weighted)
Rumble:	-56dB (IEC 98A Unweighted) -78dB (IEC 98A Weighted)

*This rating refers to turntable assembly alone, excluding effects of record, cartridge or tonearm, but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.

TONEARM SECTION

Type:	Universal
Effective length:	230mm (9-1/16")
Arm height adjustment range:	0-6 mm

Overhang:	15mm (19/32")
Effective mass:	12g (without cartridge)
Offset angle:	22°
Friction:	Less than 7 mg (lateral, vertical)
Tracking error angle:	Within 2°32' [at the outer groove of 30cm (12") record] Within 0°32' [at the inner groove of 30cm (12") record]
Stylus pressure adjustment range:	0-4g
Applicable cartridge weight range:	3.5-13g 11-20.5g (including headshell) (with auxiliary weight); 9.5-13g 17-20.5g (including headshell) (with shell weight); 3.5-6.5g 11-14g (including headshell)
Headshell weight:	7.5g

GENERAL

Power supply:	AC110-127V/220-240V, 50Hz (E,EB,GN) AC120V, 60Hz (PP)
Power consumption:	14W (E,EB,GN) 13.5W (PP)
Dimensions (W×H×D):	45.3×17.2×35.5cm (17-27/32"×6-25/32"×13-31/32")

Mass:

12kg (26.4lb)

Note:

Specifications are subject to change without notice.
Mass and dimensions are approximate.

⚠ 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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4 Caution for AC Mains Lead	5	12 Wiring Connection Diagram	20
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6 Cautions in handling of the LED	12	14 Cabinet Parts Location	24
7 Type Illustration of IC's, Transistors and Diodes	12	15 Packaging	27
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1 Accessories

- Disc slip sheet set (RGS0005Z-1)...1pc.



Technics

- Disc slip sheet
- Transparent sheet

- Auxiliary weight (SFPWG17202)...1pc.



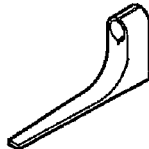
- EP record adaptor (SFWE010)...1pc.



- Shell weight (SFPZB3501)...1pc.

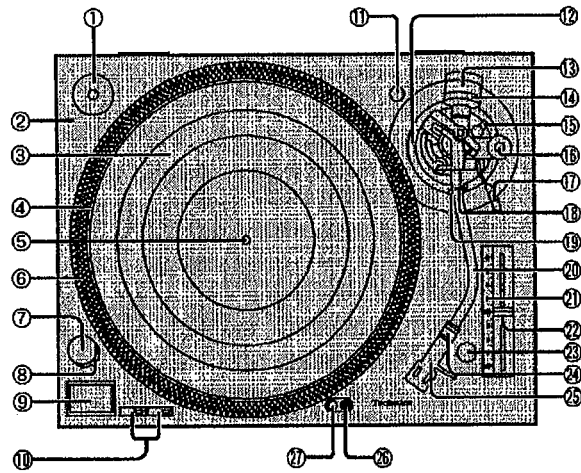


- Overhang gauge (SFK0135-01)...1pc.



- Nuts (RHN26003)...2pcs.
- Screws(short) (SFCZV8801-1)...2pcs.
- Screws(long) (SFPEV9801-1)...2pcs.
- Washers(SFPEW9601)...2pcs.
- Sticker (RQLC0142-1)...1pc.

2 Controls



No.	Name
①	EP record adaptor
②	Turntable base
③	Turntable mat (Or disc slip sheet)
④	Turntable
⑤	Center spindle
⑥	Strobe mirrors
⑦	Power switch (power)
⑧	Strobe light, pilot lamp
⑨	Start-stop button (start-stop)
⑩	Speed select buttons (33, 45)
⑪	Shell stand
⑫	Arm-height control
⑬	Balance weight
⑭	Stylus pressure control
⑮	Arm lock
⑯	Anti-skating control
⑰	Cue lever
⑱	Arm clamp
⑲	Arm rest
⑳	Tone arm
㉑	Pitch indicator
㉒	Pitch control (pitch adj.)
㉓	Reset button (reset)
㉔	Locking nut
㉕	Head shell
㉖	Stylus light switch
㉗	Stylus light

3 Safety Precaution

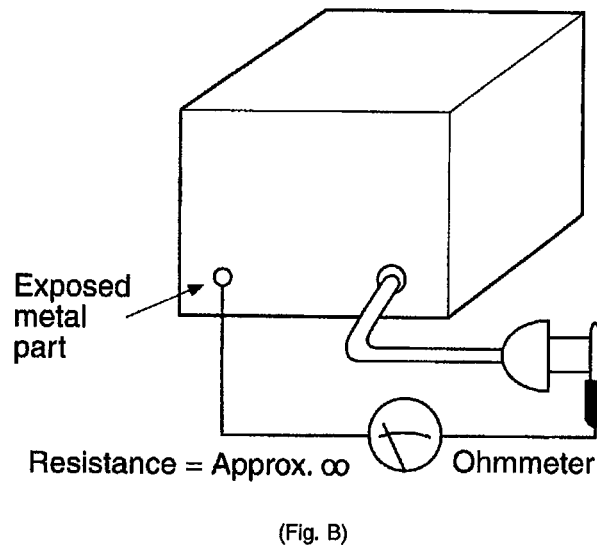
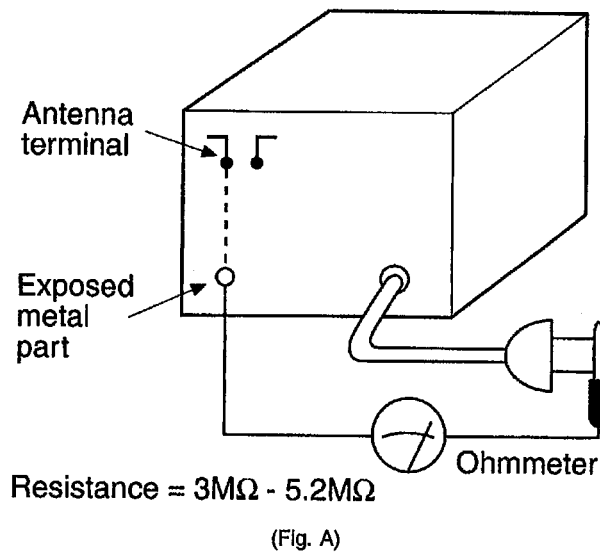
(This "Safety Precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

■ Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screw heads, control shafts, handle brackets, etc. Equipment with antenna terminals should read between $3\text{M}\Omega$ and $5.2\text{M}\Omega$ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

*Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

4 Caution for AC Mains Lead

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

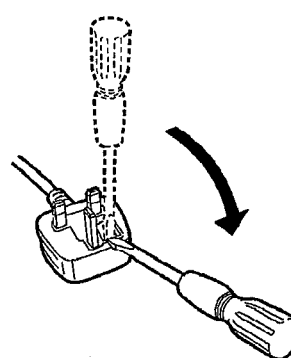
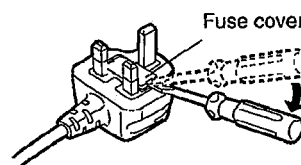


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

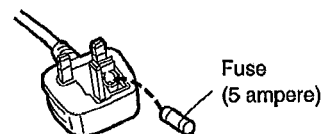
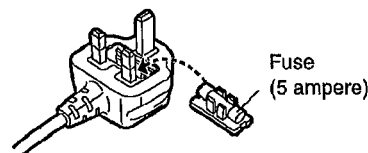


Figure B



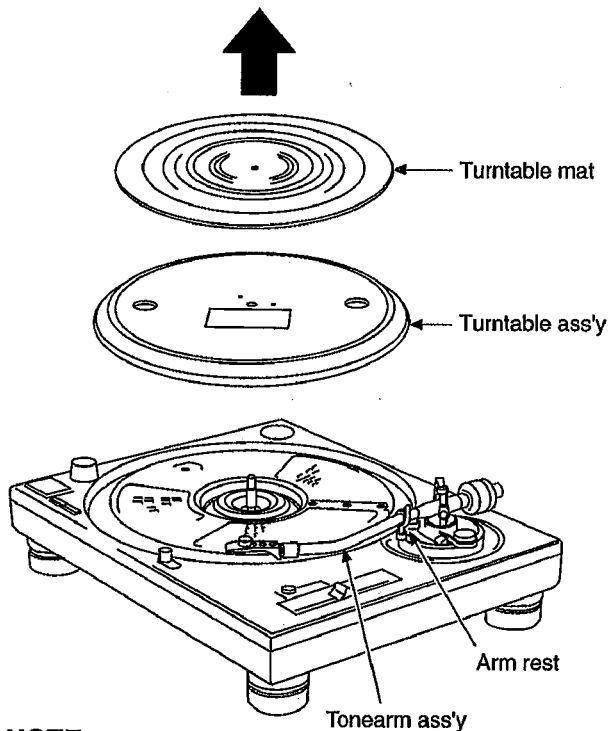
5 Operation Checks and Component Replacement Procedures

- This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

5.1. Checking for the main P.C.B. and power supply P.C.B.

(Step 1)

Remove the turntable mat and turntable ass'y.



NOTE:

1. The tonearm ass'y should be supported by arm rest.
2. Take care not to stick the dust or iron powder to the magnet attached to back inner side of turn table.

(Step 2)

$a \times 5$

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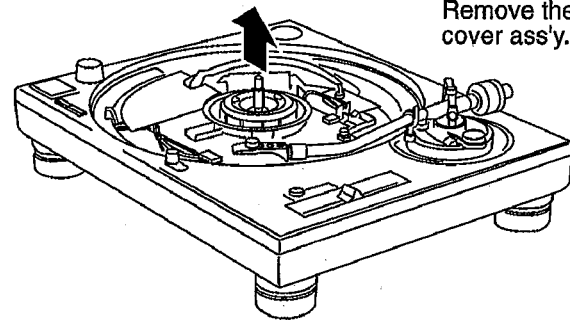
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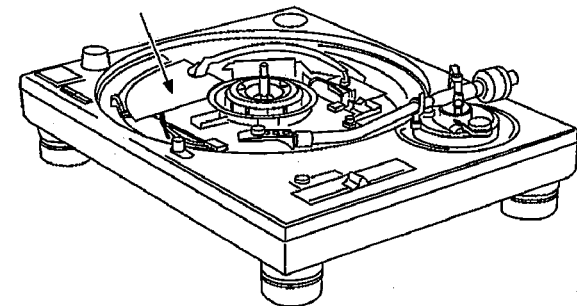
(Step 3)

Remove the panel cover ass'y.

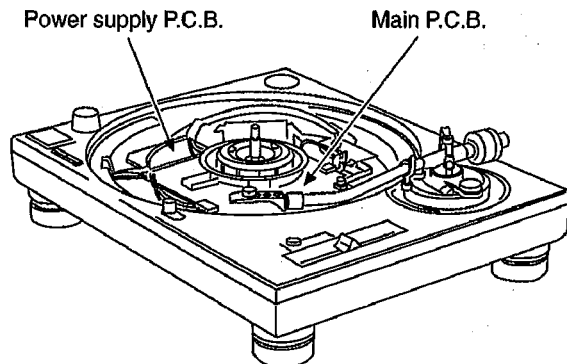


(Step 4)

Remove the barrier.

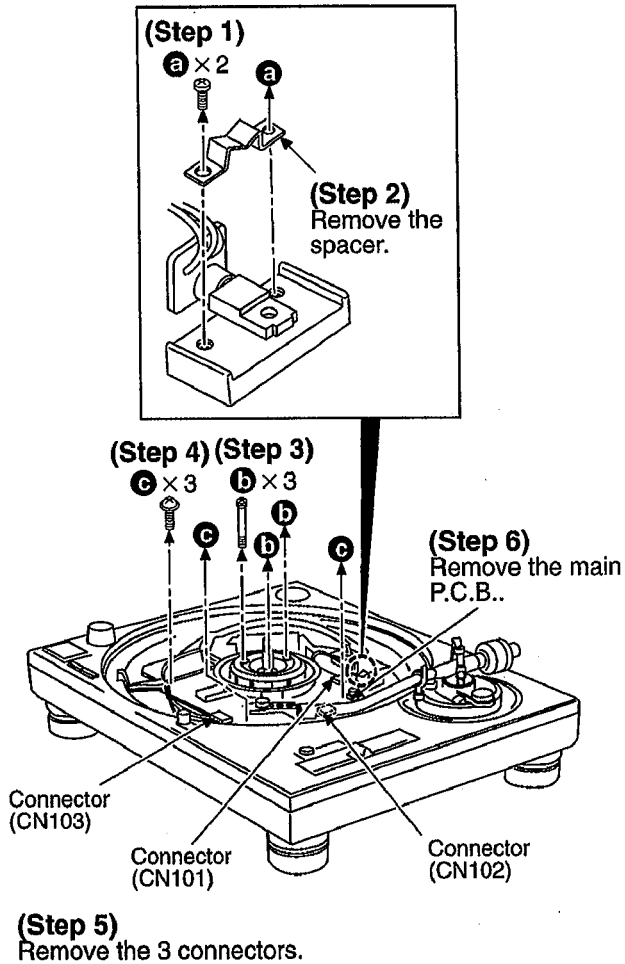


- Check the main P.C.B. and power supply P.C.B. as shown below.



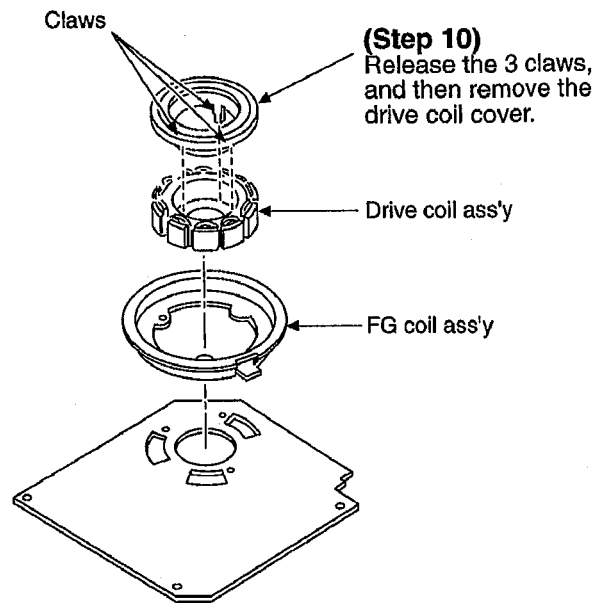
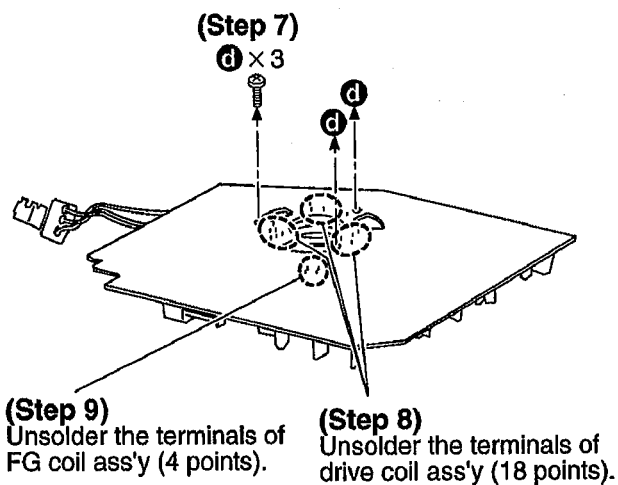
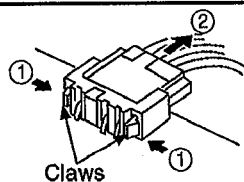
5.2. Replacement for the drive coil ass'y and FG coil ass'y

- Follow the (Step 1) - (Step 4) of item 5.1.



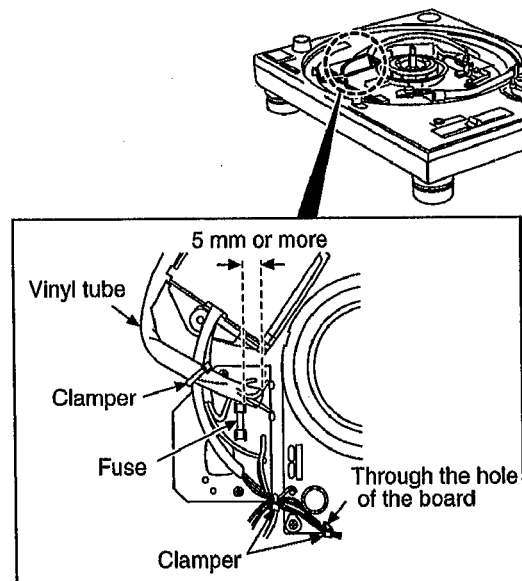
Removal of the connector

- Release the claws, and then pull out the connector.



Wire arrange for lead wires

- Leave 5 mm or more space between the tip of the vinyl tube and the fuse.
- Fix each lead wire (three sections) with the clamper as shown a figure below.



5.3. Replacement for the tonearm unit

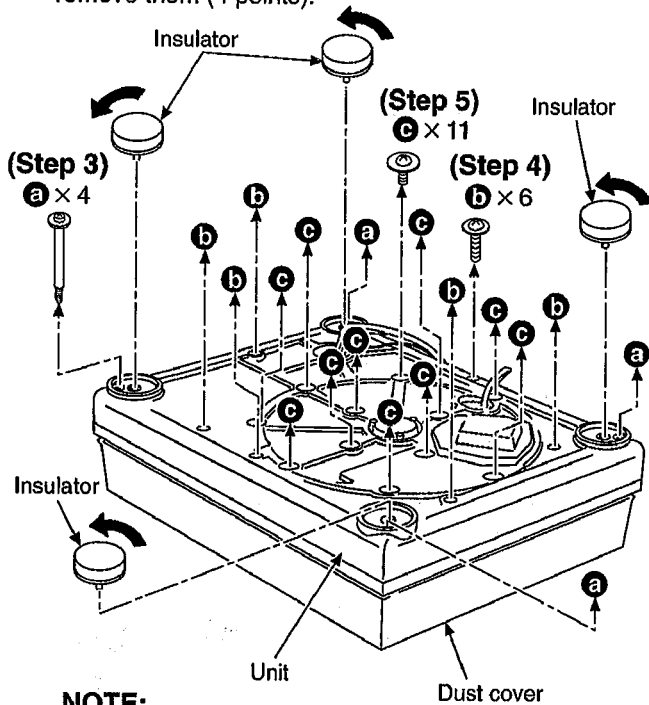
- Follow the (Step 1) of item 5.1.

(Step 1)

Upset the unit, and then put the dust cover.

(Step 2)

Turn the insulators in the direction of arrow, and then remove them (4 points).

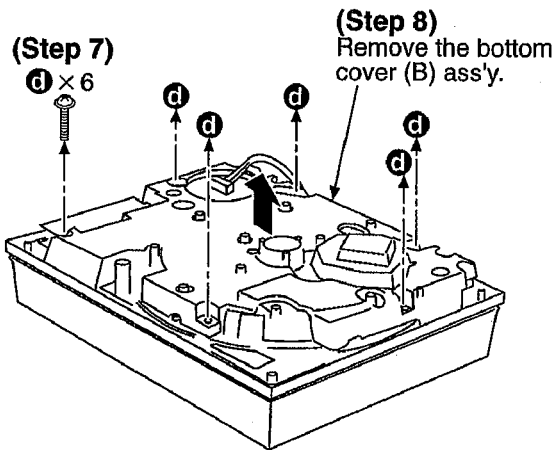
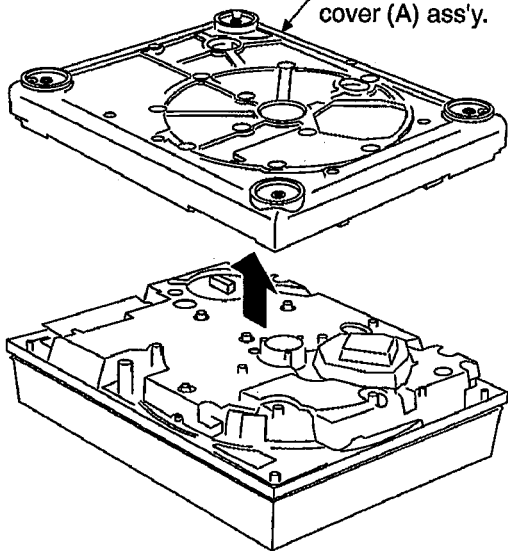


NOTE:

Use the soft cloth under the unit to prevent damage the dust cover when servicing.

(Step 6)

Remove the bottom cover (A) ass'y.

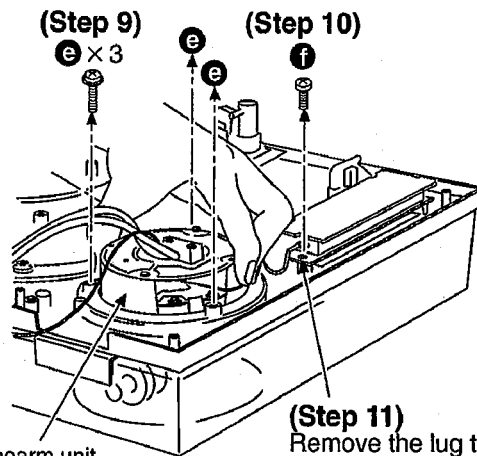


(Step 9)

(e) x 3

(Step 10)

(e)



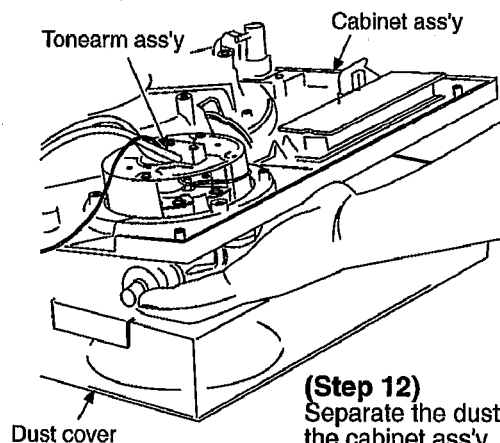
Tonearm unit

(Step 11)

Remove the lug terminal.

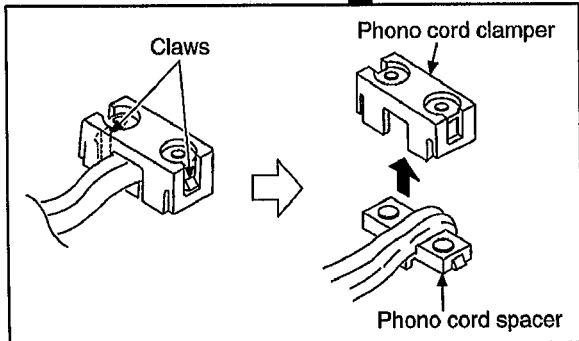
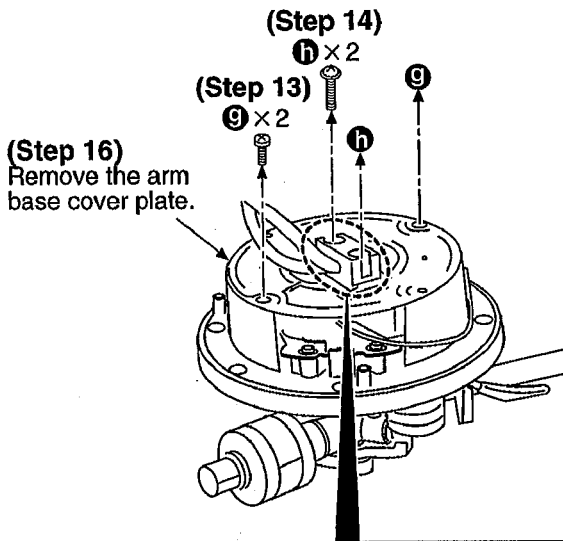
NOTE:

Hold the tonearm unit with hand when removing the 3 screws (e).

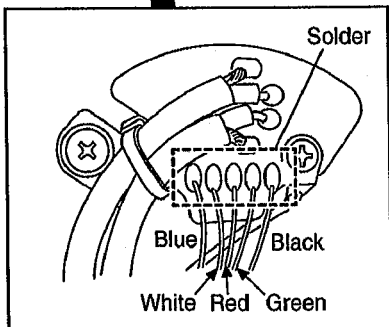
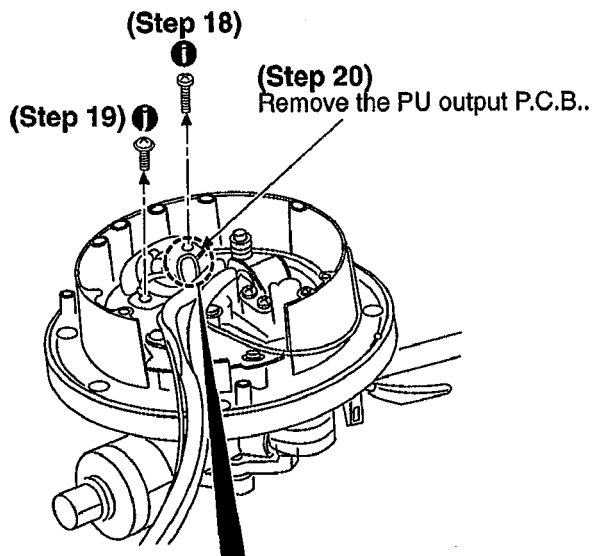


(Step 12)

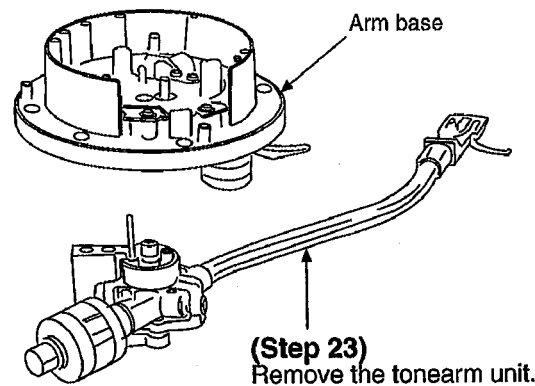
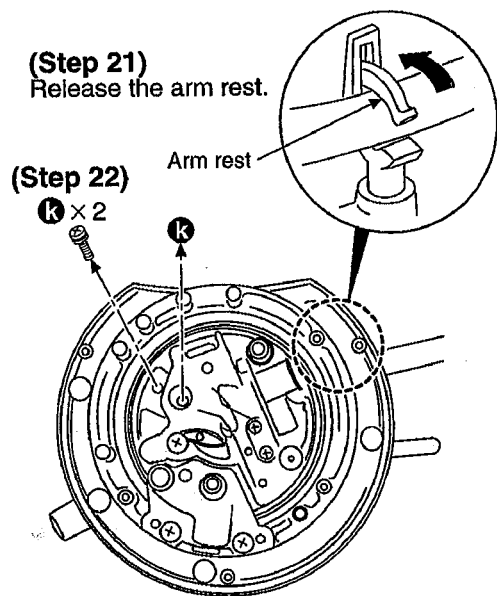
Separate the dust cover and the cabinet ass'y, and then remove the tonearm ass'y.



(Step 15)
Release the 2 claws, and then remove the phono cord clumper and phono cord spacer.



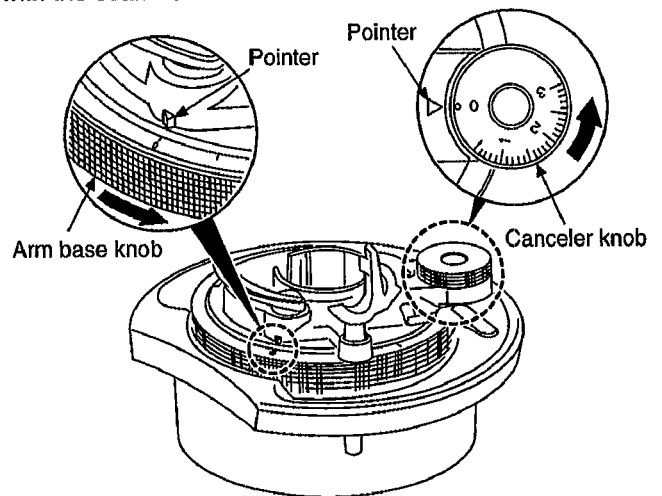
(Step 17)
Unsolder the terminals (5 points).



Reassembly procedures for tonearm ass'y

(Step 1)
Rotate the arm base knob in the direction of arrow, and then align the pointer with the scale "0".

(Step 2)
Rotate the canceler knob in the direction of arrow, and then align the pointer with the scale "0".



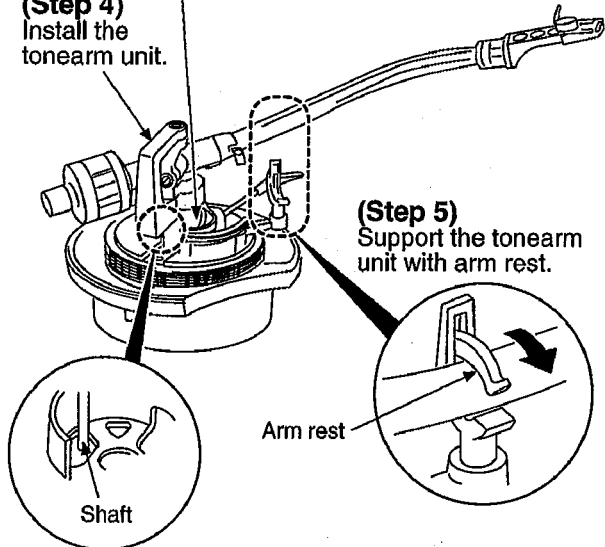
(Step 3)

Pass the 5 lead wires through the hole of arm basement.

※ When passing the lead wire through the hole, for easy operation, wrap the ends of 5 lead wires with tape.

**(Step 4)**

Install the tonearm unit.

**(Step 5)**

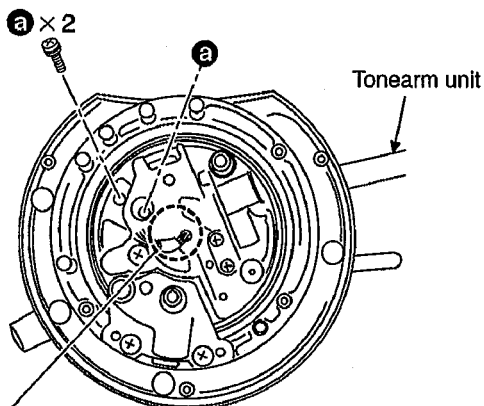
Support the tonearm unit with arm rest.

Arm rest

Shaft

(Step 6)

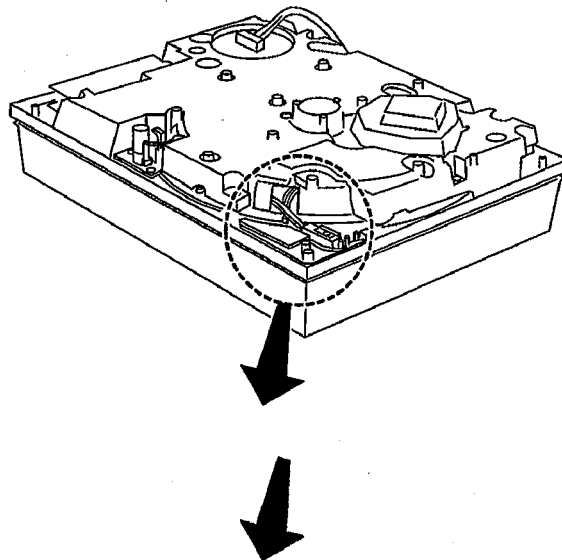
Tighten the tonearm unit screws.

**(Step 7)**

Remove the tape of lead wire.

5.4. Replacement for the parts mounted on speed selector P.C.B. and power switch

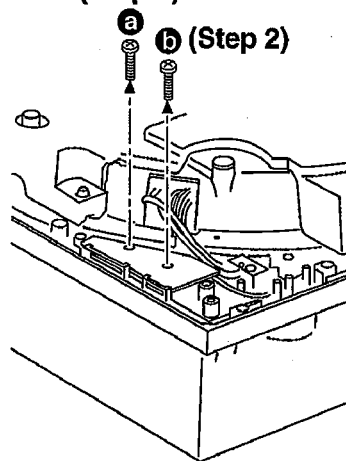
- Follow the (Step 1) of item 5.1.
- Follow the (Step 1) - (Step 6) of item 5.3.

**(Step 1)**

a

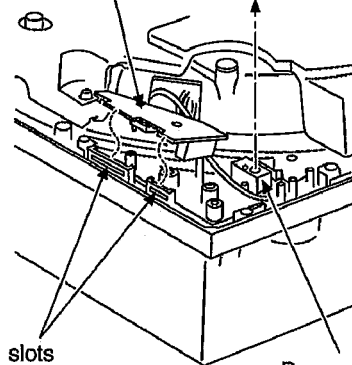
(Step 2)

b

**(Step 4)**

c

Speed selector P.C.B.

**(Step 3)**

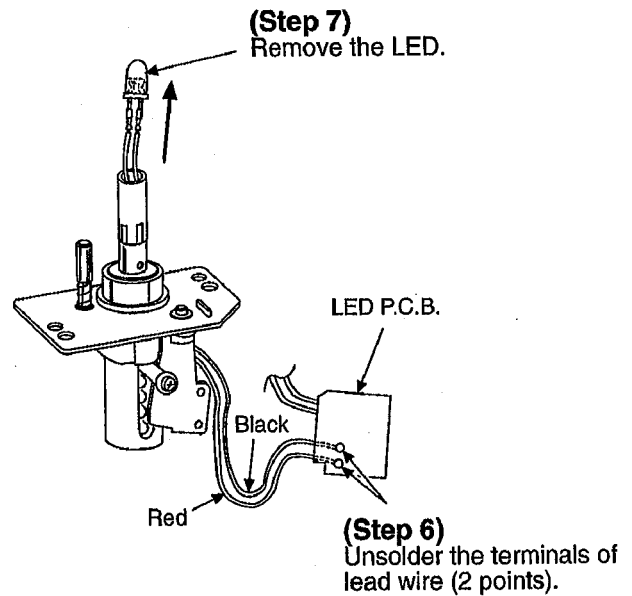
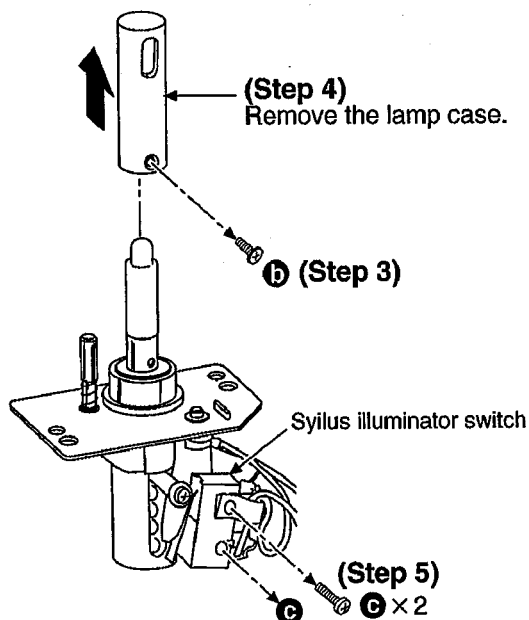
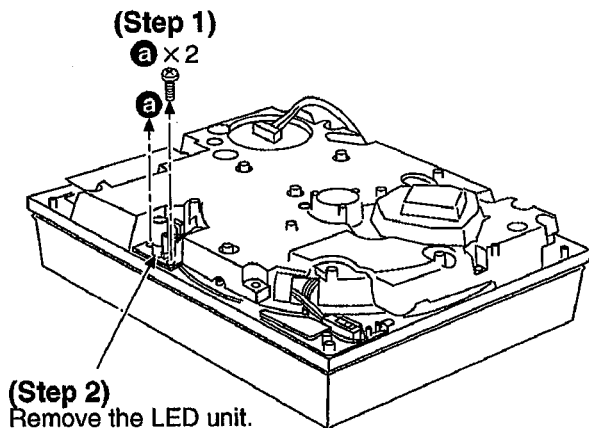
Remove the speed selector P.C.B..

5.5. Replacement for the LED and stylus illuminator switch

- Follow the (Step 1) of item 5.1.
- Follow the (Step 1) - (Step 6) of item 5.3.

Cautions

1. For lightening the needle tip, this unit uses a LED instead of a conventional lamp. The LED is very much sensitive to static electricity; therefore, be especially careful of handling it.
2. This LED may be destroyed or worsened by the static electricity charged in clothes and human bodies. When handling and repairing the LED, be especially careful of such destruction. Be sure to take necessary measures such as wearing a wrist strap.



6 Cautions in handling of the LED

- For lightening the needle tip, this unit uses a LED instead of a conventional lamp. The LED is very much sensitive to static electricity; therefore, be especially careful of handling it.

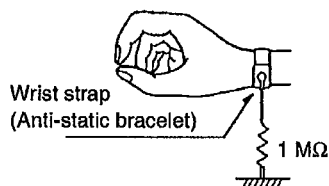
■ ⚠ Be careful of destruction by the static electricity

- This LED may be destroyed or worsened by the static electricity charged in clothes and human bodies. When handling and repairing the LED, be especially careful of such destruction. Be sure to take necessary measures such as wearing a wrist strap.

■ Grounding for electrostatic breakdown prevention

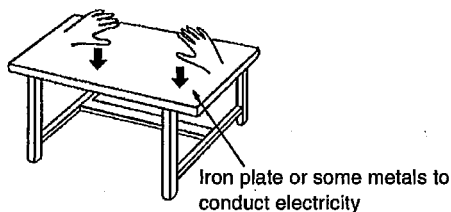
1. Human body grounding

- Use the anti-static wrist strap to discharge the static electricity from your body.



2. Work table grounding

- Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pick-up) is placed, and ground the sheet.



Caution:

The static electricity of your clothes will not be grounded through the wrist strap.

So take care not to let your clothes touch the traverse deck (optical pick-up).

7 Type Illustration of IC's, Transistors and Diodes

TC4011BP 	AN6682 	AN6680 	AN6675 	2SC2458GR 	2SD126507
2SC1846-QRS 	2SD637-QRS 	MA4051MTA 	MA165TA5 	GL8EG21 	D2SBA20
SVDPR3902S-9 LN21CAL RXQ1012 					

8 Measurements and Adjustments

8.1. The state of set and the use apparatus

- Make the following adjustments after replacing parts as IC's, Transistors, Diodes, etc.
- Condition of the set.
 1. Power switch: ON
 2. Pitch control: Center position
 3. Speed selector switch: 33-1/3 r/min
- Instruments to be used
 - Tester
 - Frequency counter

8.2. Measurements and Adjustments

8.2.1. Pitch control $\pm 0\%$ adjustment (PITCH)

1. Connect the frequency counter [(+):TP27, (-):GND] and turn the power supply ON.
2. Set the pitch control knob to "0" (center position). (Indicator lights up.)
3. Adjust VR301 so that the frequency is 262.08kHz. (Fig.1)

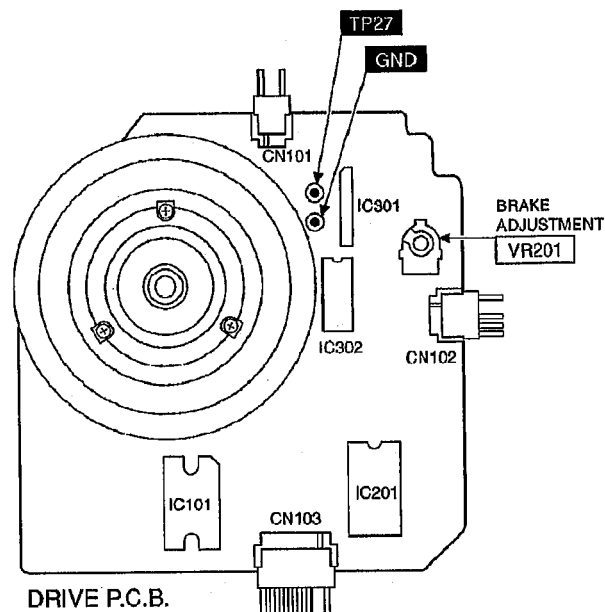
8.2.2. Pitch control gain adjustment (GAIN)

1. Set the pitch control knob to "0" (center position).
2. Pull out the connector CN102 of drive P.C.B.
3. Connect the tester to terminals, 5 and 6 of connector CN102 on the pitch control P.C.B. side.
4. Adjust VR302 so that the resistance value of the tester is $2.875 \pm 0.25k\Omega$. (Fig.2)

8.2.3. Brake adjustment (BRAKE)

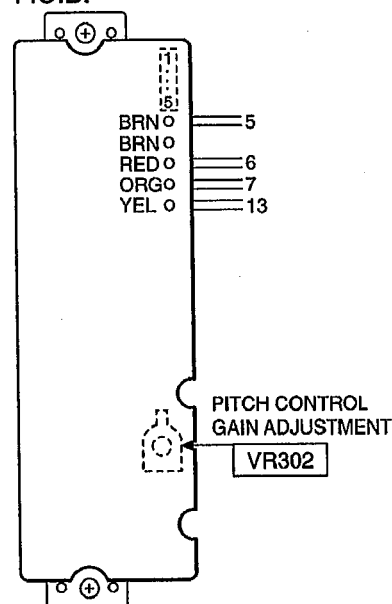
1. Adjust VR201 so that the rotation at 33-1/3 r/min stops within the stop range after pressing the stop button. (Fig.1) (Fig.3)

8.3. Alignment points



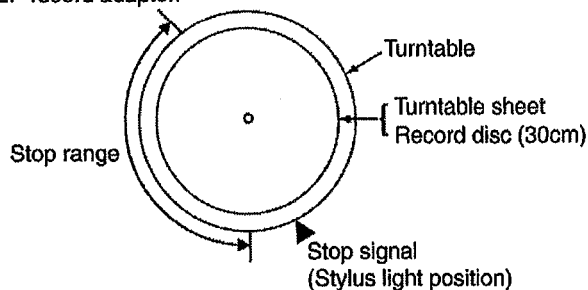
(Fig.1)

PITCH CONTROL P.C.B.



(Fig.2)

The direction of EP record adaptor.



(Fig.3)

9 Schematic Diagram

9.1. Schematic Diagram Notes

S201:	SPEED SELECTOR (33-1/3r/min) switch.
S202:	SPEED SELECTOR (45 r/min) switch.
S203:	START/STOP switch in "OFF" position.
S301:	PITCH CONTROL RESET switch in "OFF" position. (Interlocked with VR303)
S302:	PITCH RESET switch in "OFF" position.
S401:	STYLUS ILLUMINATOR switch in "ON" position.
S601:	POWER switch in "ON" position.
S602:	VOLTAGE SELECTOR switch in "220-240V" position. [E,EB,GN]
VR201:	BRAKE ADJUSTMENT VR.
VR301:	PITCH CONTROL $\pm 0\%$ ADJUSTMENT VR.
VR302:	PITCH CONTROL GAIN ADJUSTMENT VR.
VR303:	PITCH CONTROL ADJUSTMENT VR. (Interlocked with S301)

- The voltage value and waveforms are the reference voltage of this measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some errors in the voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark: Voltage when at a stop

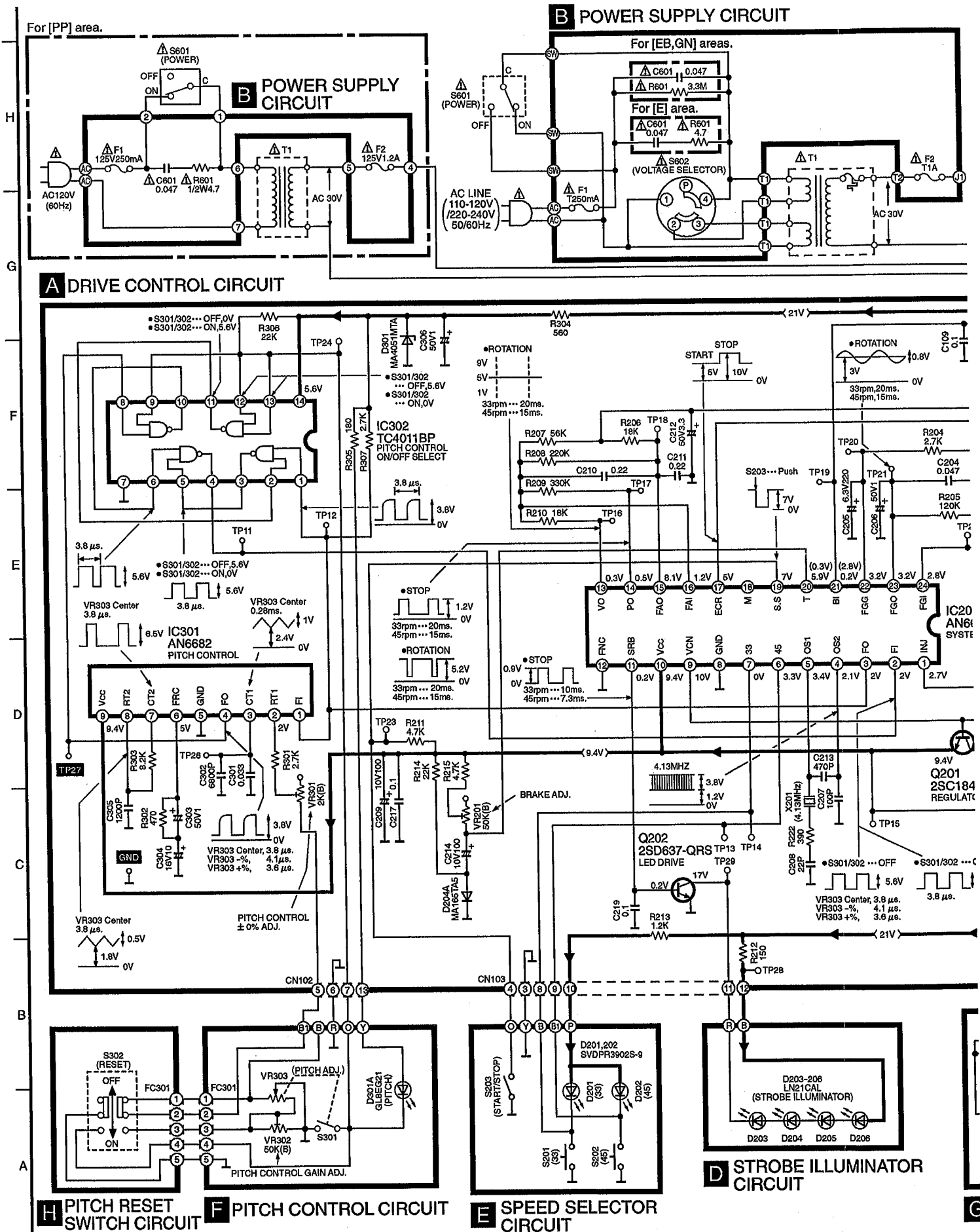
(): Voltage during rotation

- Signal line

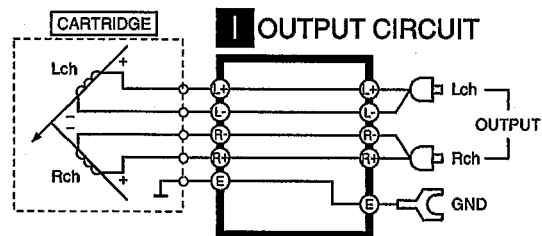
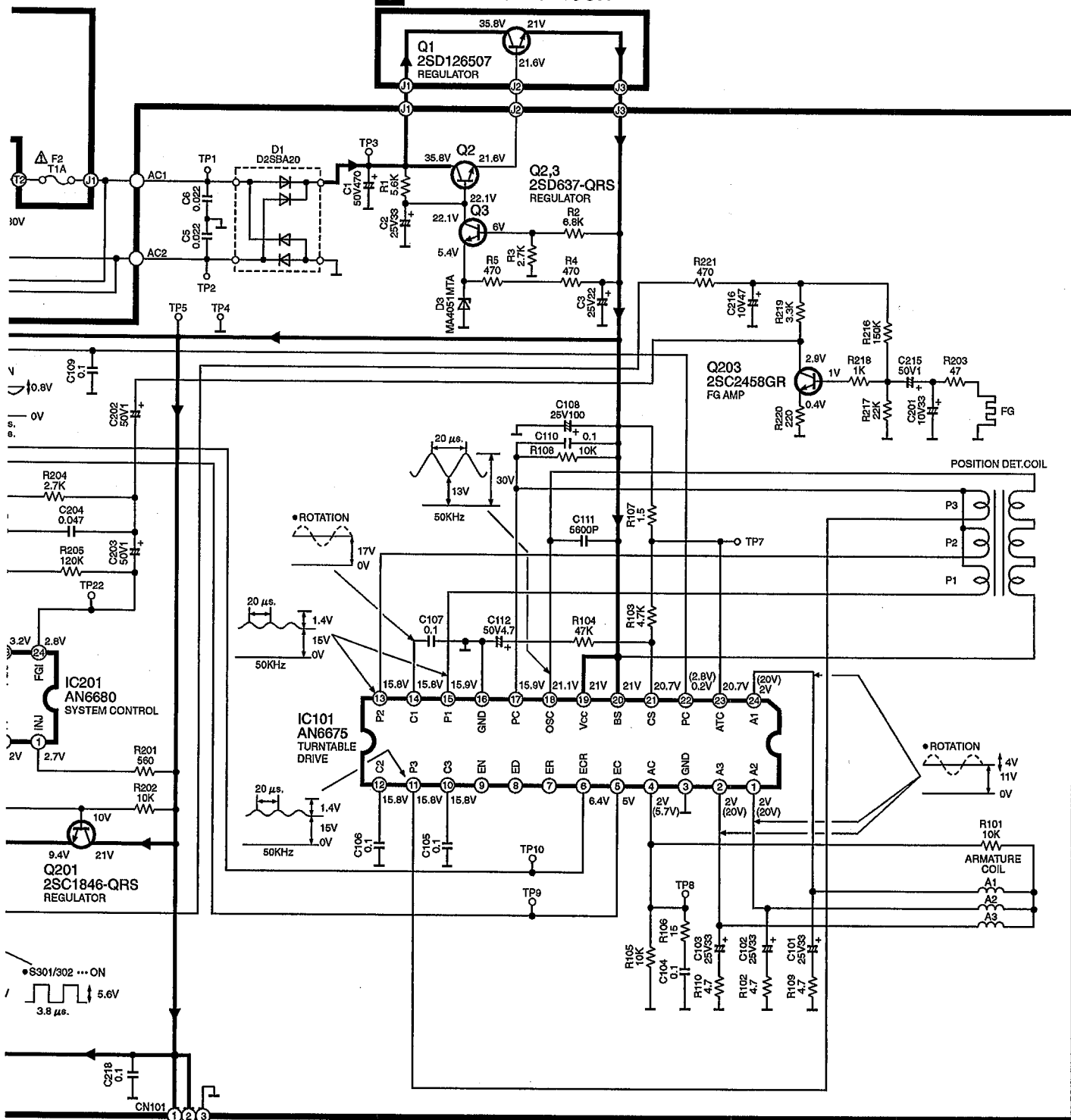
—  : +B line

- Important safety notice:
Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacture's specified parts.
- This schematic diagram may be modified at any time with the development of new technology.

9.2. Schematic Diagram



C REGULATOR CIRCUIT



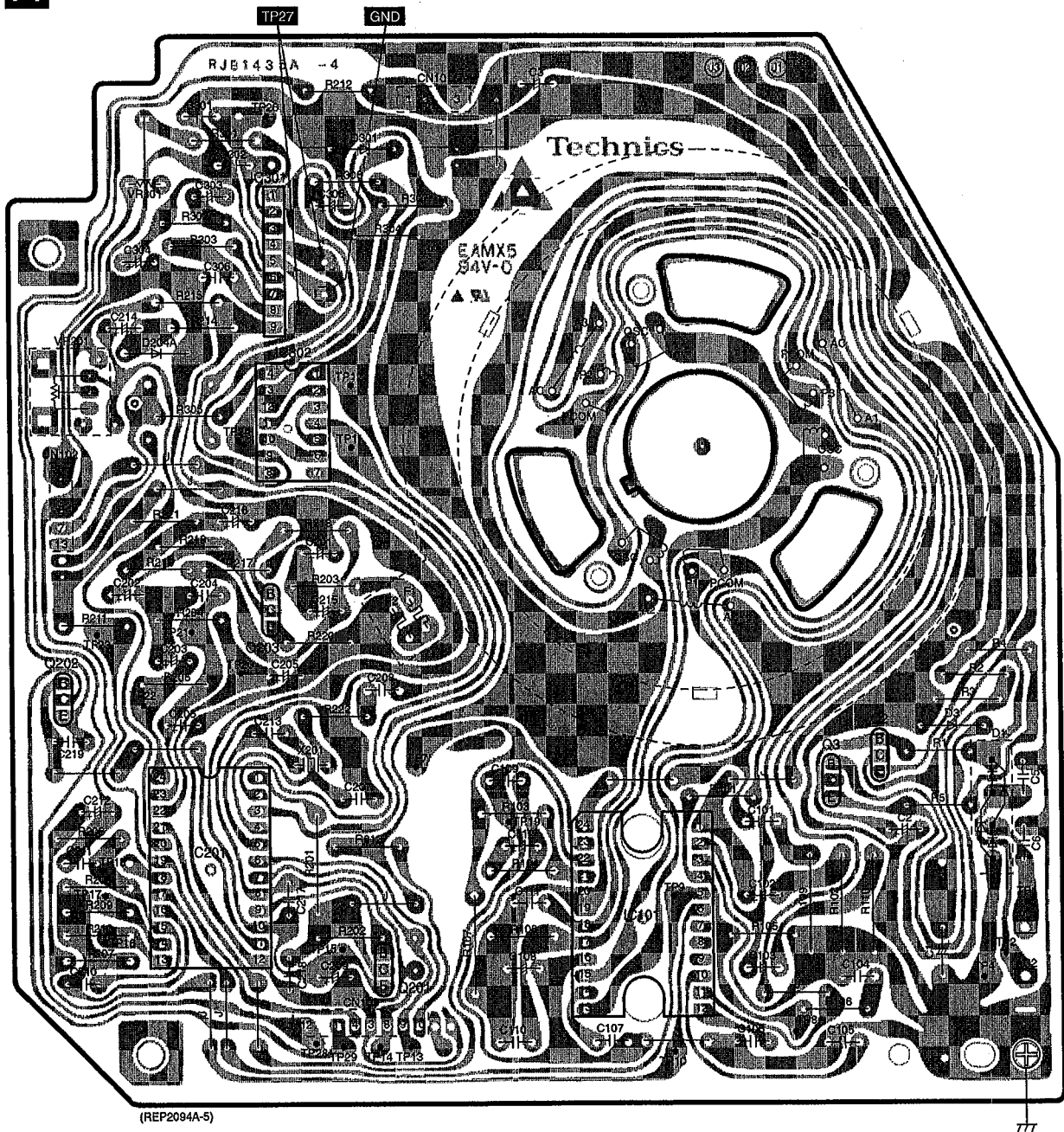
G STYLUS ILLUMINATOR SWITCH CIRCUIT

SL-1200MK5/1210MK5(E,EB,GN,PP) DRIVE CONTROL, POWER SUPPLY, REGULATOR, PITCH RESET SWITCH, PITCH CONTROL, SPEED SELECTOR, STROBE ILLUMINATOR, STYLUS ILLUMINATOR SWITCH, OUTPUT CIRCUIT

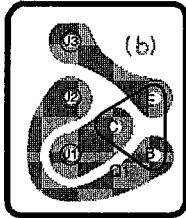
10 Printed Circuit Board Diagram

Note: This printed circuit board diagram may be modified at any time with the development of new technology.

A DRIVE CONTROL P.C.B.

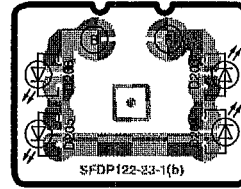


C REGULATOR P.C.B.



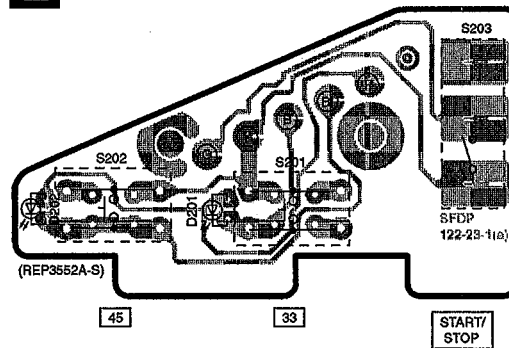
(REP2094A-S)

D STROBE ILLUMINATOR P.C.B.

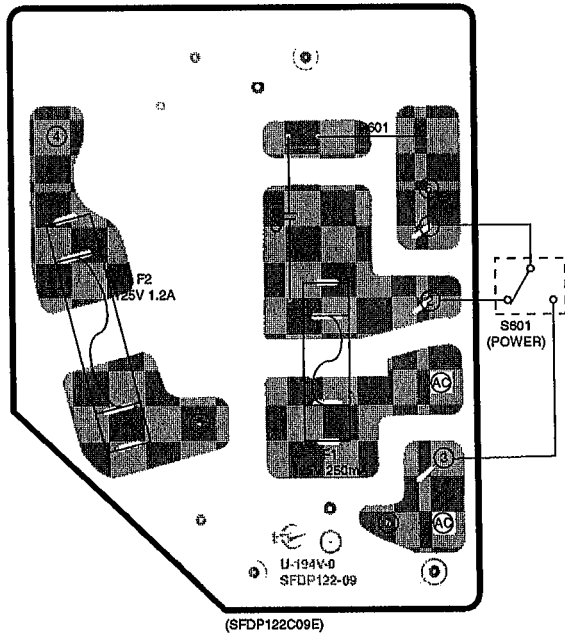


(REP3552A-S)

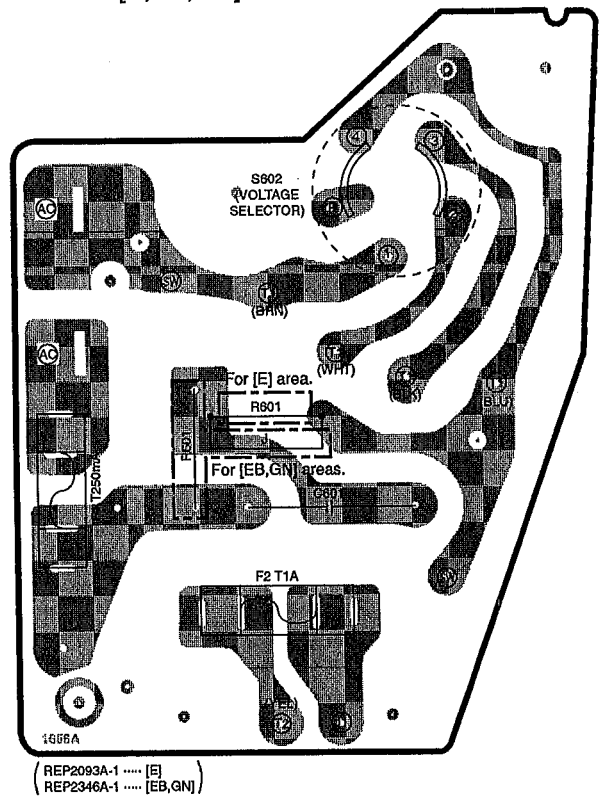
E SPEED SELECTOR P.C.B.



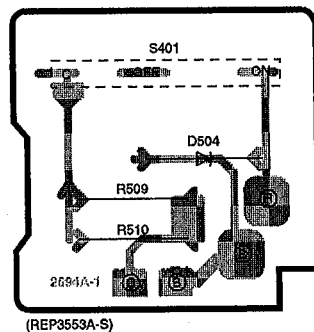
B POWER SUPPLY P.C.B.
For [PP] area.



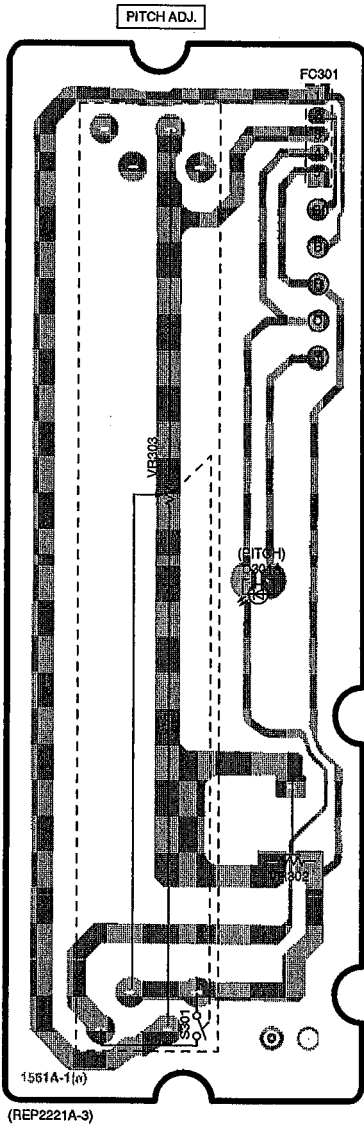
B POWER SUPPLY P.C.B.
For [E,EB,GN] areas.



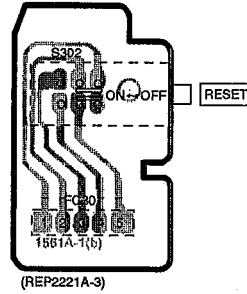
G STYLUS ILLUMINATOR SWITCH P.C.B.



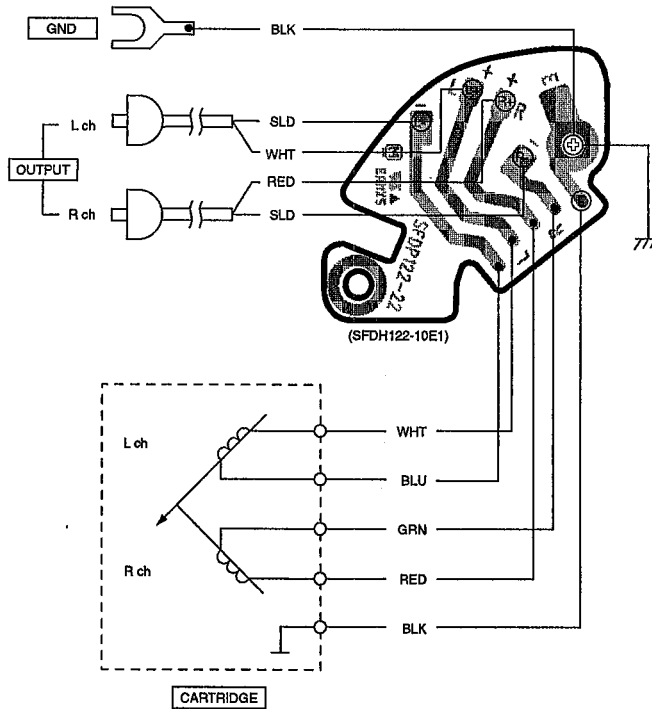
F PITCH CONTROL P.C.B.



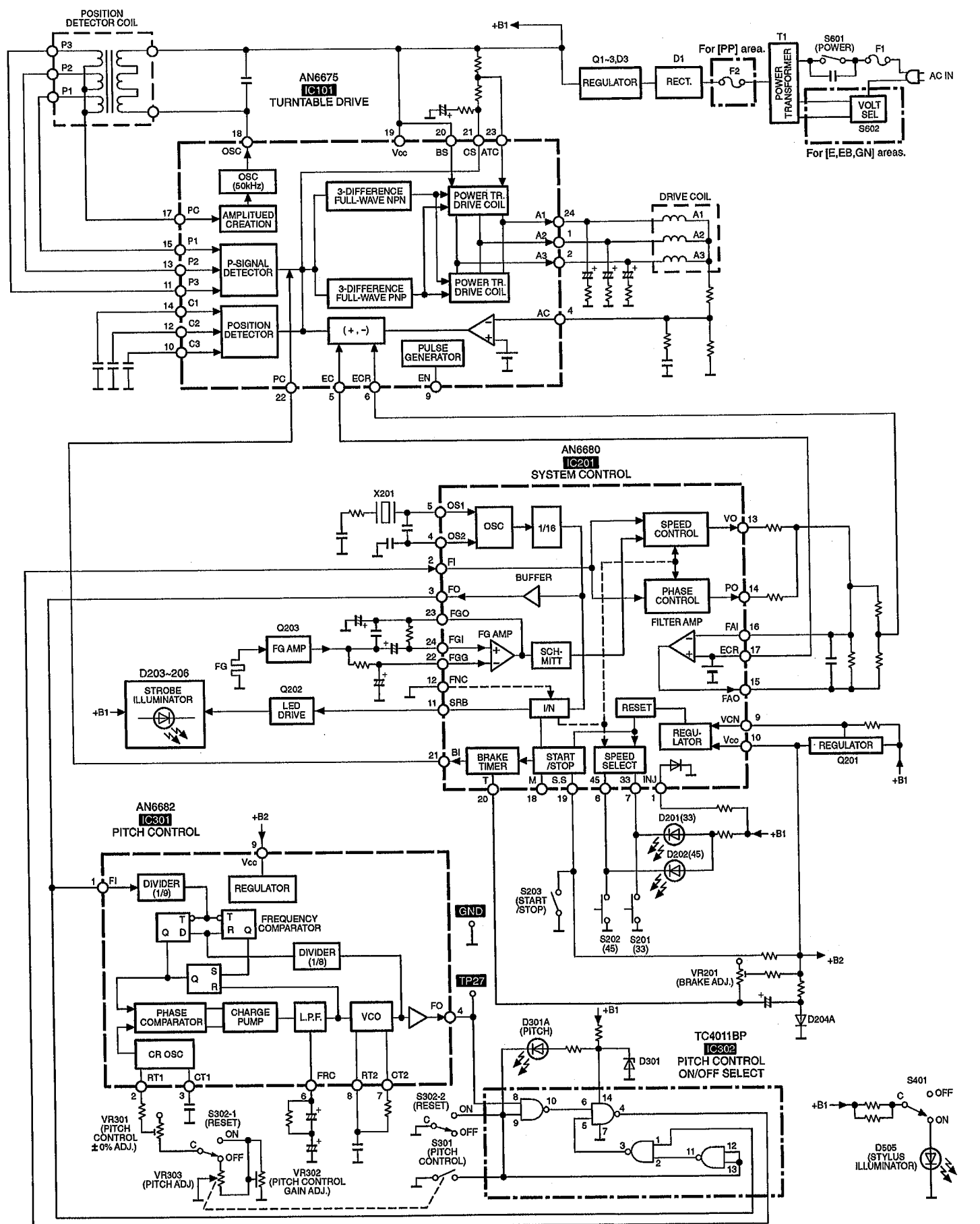
H PITCH RESET SWITCH P.C.B.



I OUTPUT P.C.B.



11 Block Diagram



SL-1200MK5/1210MK5 (PP,E,EB,GN) BLOCK DIAGRAM



13 Replacement Parts List

Note:

- All parts are supplied by SPC .
- Important safety notice:
- Components identified by Δ mark have special characteristics important for safety.
- Furthermore, special parts which have purposes of fireretardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
- When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas and models.
Parts without these indications can be used for all areas.
 - (E): SL-1200MK5E/SL-1210MK5E
 - (EB): SL-1200MK5EB/SL-1210MK5EB
 - (GN): SL-1200MK5GN/SL-1210MK5GN
 - (PP): SL-1200MK5PP/SL-1210MK5PP
 - (1200MK5): All the areas of SL-1200MK5.
 - (1210MK5): All the areas of SL-1210MK5.
- Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)
- The marking <RTL> indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	SFMZ172-01E	FG COIL ASS'Y	1	
2	SFMG520-31A	DRIVE COIL ASS'Y	1	
3	SFMGQ20-01	DRIVE COIL COVER	1	
4	XTN26+6J	SCREW	3	
5	N092	SPACER	1	
6	REZ0836-1	WIRE KIT	1	
7	RGU0611-S	BUTTON	1	
8	RMR0945-K	BRACKET, LOCK SW	1	
9	RMK0124	SPACER	1	
10	REZ1546	WIRE KIT	1	
11	SFUP122-01	BRACKET, PITCH CONTROL	1	
12	SFUP122-09	HOLDER, LED	1	
13	XTBS26+8J	SCREW	2	
14	XTN3+6J	SCREW	4	
15	XWE3F6	WASHER	2	
16	XWE4D10BW	WASHER	1	
17	XYN3+C6S	SCREW	2	
18	RGN2485-K	NAME PLATE	1	(SL-1200MK5E)
18	RGN2486-K	NAME PLATE	1	(SL-1200MK5EB)
18	RGN2487-K	NAME PLATE	1	(SL-1200MK5GN)
18	RGN2488-K	NAME PLATE	1	(SL-1200MK5PP)
18	RGN2489-K	NAME PLATE	1	(S1-1210MK5E)
18	RGN2490-K	NAME PLATE	1	(S1-1210MK5EB)
18	RGN2491-K	NAME PLATE	1	(SL-1210MK5GN)
18	RGN2492-K	NAME PLATE	1	(SL-1210MK5PP)
19	RMR1112-K	SHELL STAND	1	
20	RMZ0584-1	BARRIER	1	(E, EB, GN)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
21	RGK0942Z-S	COVER, STROBE ILLUMINATOR	1	
22	RMR1111B-K	OPERATION BASE	1	(E, EB, PP)
22	RMR1111C-K	OPERATION BASE	1	(GN)
23	RYQ0309-K	KNOB, POWER SW	1	
24	REZ1544	WIRE KIT	1	
25	SFUM015-11	SPACER, LED	2	
26	SFKT015-011E	BUTTON, SPEED SELECT (33)	1	
27	SFKT015-021E	BUTTON, SPEED SELECT (45)	1	
28	SFKT015-062	BUTTON, START/STOP	1	
29	SFQA122-011	SPRING	1	
30	SFQA520-01	SPRING	1	
31	SFUM122-03	CAM, POWER SW	1	
32	SFUZ122-04	SHEET	1	
33	SFXW910J02	WASHER	1	
34	SFYB5-32	STEEL BALL	1	
35	XTV3+8G	SCREW	1	
36	XUC3FY	WASHER	2	
37	REZ1548	WIRE KIT	1	
38	RGK1603AZ-S	LAMP CASE ASS'Y	1	
41	RMK0243	SPACER	1	
42	RTW-12	WASHER	1	
44	SFGZ122-021	RUBBER	1	
45	SFQA122-02	SPRING	1	
46	SFQA172-01	SPRING	1	
47	SFQA520-011	SPRING	1	
48	SFUP122-02E	BRACKET, ILLUMINATOR	1	
49	SFUP122-03	PLATE, LOCK OPERATION	1	
50	SFUP122-15-1	STOPPER, SPRING	1	
51	SFX0172-01-1	PIN, GUIDE	1	
52	SFXJ172-01	PIN, LOCK CANCELER	1	
53	SFXJ172-05	PIN	1	
55	XSN2+10	SCREW	2	
57	XUC25FY	WASHER	2	
58	XUC2FY	WASHER	1	
59	XWE3D8	WASHER	1	
60	XYN3+C15S	SCREW	1	
61	SFGC122-04E	INSULATOR	4	
62	SFKT122-02	KNOB, PITCH CONTROL	1	
63	SFMZQ20-09A	SHAFT ASS'Y	1	
64	SFUM172-042	ORNAMENT, ILLUMINATOR	1	
65	SFUP122N11E	AC CORD ASS'Y	1	(E) Δ
65	SFUP122G11E	AC CORD ASS'Y	1	(EB) Δ
65	SFUP122L11E	AC CORD ASS'Y	1	(GN) Δ
65	SFUP122M12E2	AC CORD ASS'Y	1	(PP) Δ
66	SFUP122-23C	PLATE, HINGE	2	
67	SFUZ122-01	SHEET	1	
68	SFXG122-01	SCREW	4	
69	SFXG122-02	SCREW	11	
70	SFXG172-01	SCREW	3	
71	SFXGQ20-021	SCREW	3	
72	SFXW172-032	SPACER	1	
73	SNSB10	SCREW	3	
74	SNSB9-2	SCREW	6	
75	XTB3+10JFZ	SCREW	4	
76	XTB3+8J	SCREW	13	
77	XTN3+8JFZ	SCREW	5	
78	XTV23+10G	SCREW	1	
79	XTW3+15T	SCREW	10	
80	XTW3+8T	SCREW	4	
81	RYQ0418-S	ARM ASS'Y(S)	1	(1200MK5)
81	RYQ0418A-K	ARM ASS'Y(K)	1	(1210MK5)
82	RJL2P009S12	PHONO CORD	1	K2KA2B000001
83	SFEL026-01E1	GROUND WIRE	1	
84	SFPZB12203-1	PLATE, ARM BASE COVER	1	
85	SFPAB13202	KNOB, LIFT	1	
86	SFPAB18201K1	TOPE ARM FIXING PLATE	1	
87	SFPJL18202K	OIL DAMPER	1	

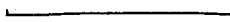
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
88	SFPKD12201-1	BRACKET, ARM BASE	1	
89	SFPAB17206A	KNOB, ANTI-SKATING CONTROL	1	
90	RFKN1200MK2A	ARM BASE ASS'Y	1	(1200MK5)
90	RFKN1200MK2B	ARM BASE ASS'Y	1	(1210MK5)
91	XTW26+6S	SCREW	1	
92	SFPRT17201K1	ARM REST	1	
93	SFPRT18201K	ARM LEFT	1	
94	SFPZB12201K	PLATE	1	
95	SFPZB17202	KNOB, ARM LOCK	1	
96	SFQA829-03	SPRING	1	
97	SFXG829-1	SCREW	1	
99	XTN3+8J	SCREW	1	
100	XTW3+6T	SCREW	3	
102	XUC5FY-V	WASHER	1	
103	XWE4A10BW	WASHER	1	
104	SFPWG17201K	BALANCE WEIGHT	1	
105	SFPZB12204	CLAMPER, PHONO CORD	1	
106	SFUM170-06	SPACER, PHONO CORD	1	
107	XTB3+6JFZ	SCREW	2	
108	XTW3+12TFZ	SCREW	2	
110	XYE3+CU25	SCREW	1	
111	XYN3+C10S	SCREW	2	
112	RKM0101H-S	PANEL	1	(1200MK5)
112	RKM0101L-K	PANEL	1	(1210MK5)
113	RYF0370B-X	DUST COVER ASS'Y	1	
113-1	RMG0483-K	DUST COVER RUBBER	2	
115	SFAUL122-022	BOTTOM COVER A	1	(E, EB, GN)
115	SFAUL122-024	BOTTOM COVER A	1	(PP)
116	SFAUL122-033	BOTTOM COVER B	1	
117	SFTE172-01Z1	TURN TABLE ASS'Y	1	
118	SFUM172-055	PANEL COVER	1	(E, EB)
118	SFUM172-054	PANEL COVER	1	(GN, PP)
119	SFPCC31001K	HEAD SHELLK	1	
119-1	REZ1037-2	SHEEL WIRE	1	
120	RG80008	T/T RUBBER MAT	1	
121	SFGC122-01	RUBBER	3	
122	SFER190-01	LUG TERMINAL	2	
123	REZ0668	LED SPACER	1	
124	RGH0131-S1	ORNAMENT, PITCH CONTROL	1	(1200MK5)
124	RGH0131-2K1	ORNAMENT, PITCH CONTROL	1	(1210MK5)
125	SFER1C	LUG TERMINAL	2	
126	SFPEW17201	WASHER	1	
129	SMKB5	SW BARRIER	1	(EB, GN)
130	SFNZ520M31	CAUTION LABEL	1	(E, EB, GN)
130	SFNZ520C32	CAUTION LABEL	1	(PP)
131	RQLA0263	CAUTION LABEL	1	(E, EB, GN)
131	SFUP015-13	CAUTION LABEL	1	(PP)
132	SFNZ10EC01	CAUTION LABEL	1	(E, EB, GN)
133	RQLA0385	CAUTION LABEL	1	(E, EB, GN)
134	SFNZ023S01	CAUTION LABEL	1	(E, EB, GN)
134	SQZB8	CAUTION LABEL	1	(PP)
135	RQLS0091-1	DOC LABEL	1	(PP)
136	RQLS0102	FFC LABEL	1	(PP)
137	RQLS0134-1	CAUTION LABEL	1	(E, EB, GN)
137	SQZB8	CAUTION LABEL	1	(PP)
A1	RQT7016-E	O/I BOOK	1	(E) Spanish, French, Germany, Duch, Swedish, Italian, Polish, Czech, Danish
A1	RQT7017-B	O/I BOOK	1	(E, EB, GN) English
A1	RQT7018-Y	O/I BOOK	1	(PP) English, Canadian French
A3	SFWE010	EP RECORD ADAPTOR	1	
A4	RHN26003	CARTRIDGE NUT	2	
A5	SFCZV8801-1	SCREW	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A6	SFPEV9801-1	SCREW	2	
A7	SFPEW9601	WASHER	2	
A8	SFPZB3501	SHELL WEIGHT	1	
A9	SFPWG17202	AUXILIARY WEIGHT	1	
A10	SFK0135-01	OVERHANG GAUGE	1	
A11	RGS0005Z	DISC SLIP SHEET ASS'Y	1	
A12	RQLC0142-1	TECHNICS LABEL	1	
C1	ECA1HM471S	50V 470U	1	
C2	RCE1EU330BV	25V 33U	1	F2A1E330A014
C3	ECEA1EKA220B	25V 22U	1	
C5, C6	ECQM1223KZ3	125V 0.022U	2	
C101-03	RCE1EU330BV	25V 33U	3	F2A1E330A014
C104-07	ECQV1H104JM3	50V 0.1U	4	
C108	ECA1EAM101XB	25V 100U	1	
C109, 10	ECQV1H104JM3	50V 0.1U	2	
C111	ECQB1H562JF3	50V 5600P	1	
C112	ECEA1HKA4R7	50V 4.7U	1	
C201	RCE1AKA330BG	10V 33U	1	F2A1A330A011
C202, 03	ECA1HAK010XI	50V 1U	2	
C204	ECQV1H473JM3	50V 0.047U	1	
C205	ECA0JM221	6.3V 220U	1	
C206	ECA1HAK010XI	50V 1U	1	
C207	ECCR1H101K5	50V 100P	1	
C208	ECCR1H220KU5	50V 22P	1	
C209	RCE1AU101BV	10V 100U	1	F2A1A101A019
C210, 11	ECQV1H224JM3	50V 0.22U	2	
C212	RCE1HKA3R3BG	50V 3.3U	1	F2A1H3R3A015
C213	ECCR1H471K5	50V 470P	1	
C214	RCE1AU101BV	10V 100U	1	F2A1A101A019
C215	ECA1HAK010XI	50V 1U	1	
C216	RCE1AKA470BG	10V 47U	1	F2A1A470A011
C217-19	ECFF1H104ZF5	50V 0.1U	3	
C301	ECQR1333GZ	125V 0.033U	1	
C302	ECQR1682GZ	125V 6800P	1	
C303	ECA1HAK010XI	50V 1U	1	
C304	ECEA1CKS100	16V 10U	1	
C305	ECQB1H122JF3	50V 1200P	1	
C306	ECA1HAK010XI	50V 1U	1	
C601	ECQU2A473MY	100V 0.047U	1	△
CN101	EMC80360L	PLUG	1	K1KA03A00188
CN102	EMC80460L	PLUG	1	K1KA04A00211
CN103	EMC80760L	PLUG	1	K1KA07A00105
D1	D2SBA20	DIODE	1	B0EBKM000013
D3	MA4051M	DIODE	1	MAZ40510M
D201, 02	SVDPR3902S-9	LED	2	B3AAA0000446
D203, 04	LN21CAL	LED	2	
D204A	MA165TA5	DIODE	1	MA2C16500E
D205, 06	LN21CAL	LED	2	
D301	MA4051M	DIODE	1	MAZ40510M
D301A	GL8EG21	LED	1	B3ABA0000143
D504	MA4051M	DIODE	1	MAZ40510M
D505	RXQ1012	LED	1	
F1	XBA2C025TB0	FUSE	1	K5D251BL0002 (E, EB, GN) △
F1	K5D251AQ0002	FUSE	1	(PP) △
F2	K5D102BA0003	FUSE	1	(E, EB, GN) △
F2	XBA1F12NU14	FUSE	1	K5D122AD0002 (PP) △
IC101	AN6675	IC	1	
IC201	AN6680	IC	1	
IC301	AN6682	IC	1	AN6682-NT
IC302	TC4011BP	IC	1	C0JAAC000090
P1	RP66584	PACKING CASE	1	(1200MK5) (E)
P1	RP66585	PACKING CASE	1	(1200MK5) (EB)
P1	RP66586	PACKING CASE	1	(1200MK5) (GN)
P1	RP66587	PACKING CASE	1	(1200MK5) (PP)
P1	RP66580	PACKING CASE	1	(1210MK5) (E)

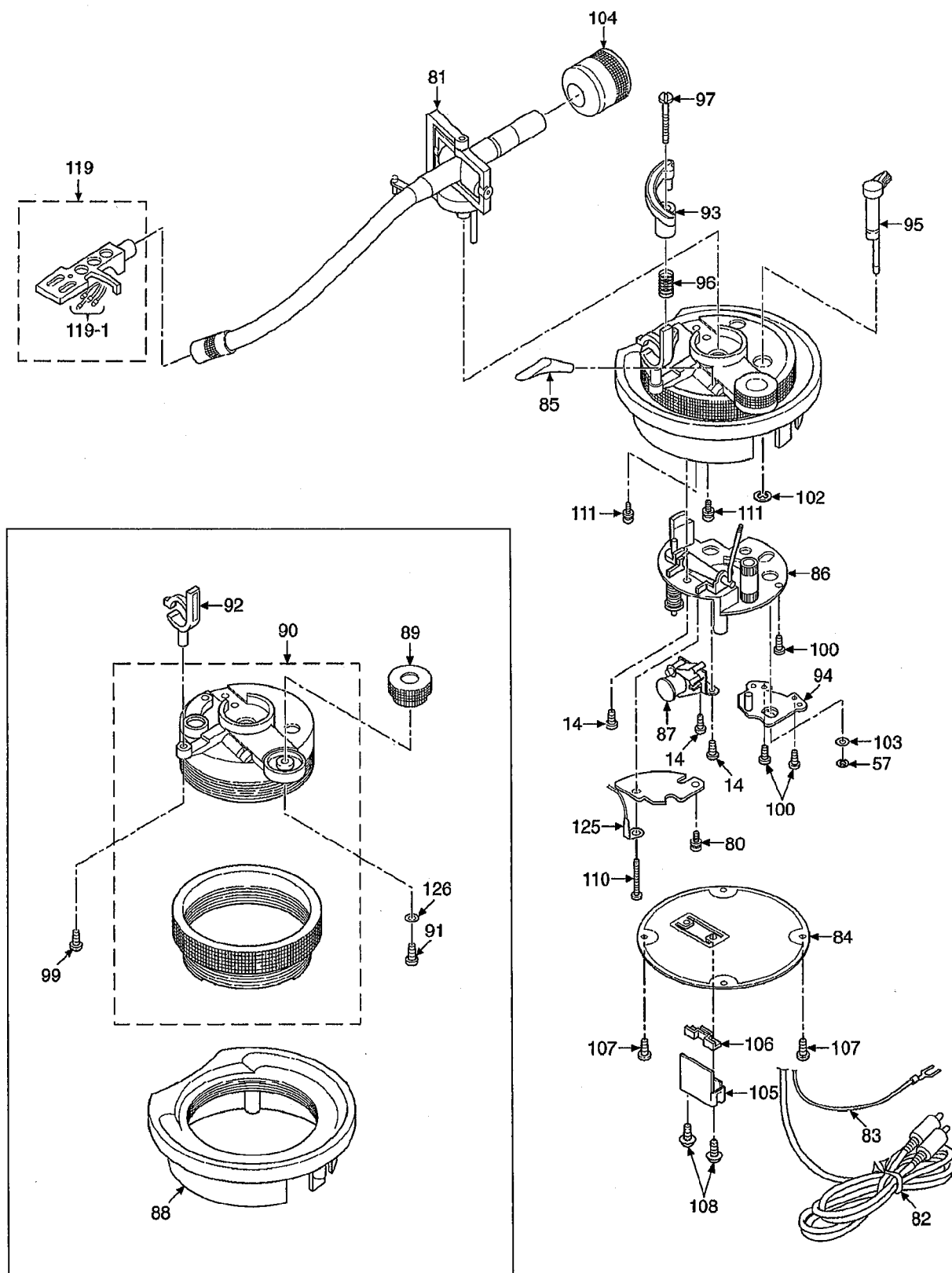
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P1	RP66581	PACKING CASE	1	(1210MK5) (EB)
P1	RP66582	PACKING CASE	1	(1210MK5) (GN)
P1	RP66583	PACKING CASE	1	(1210MK5) (PP)
P2	SFHH122-011	CUSHION, FRONT	1	
P3	SFHH122-02	CUSHION, REAR	1	(E, PP)
P3	RPN0710	CUSHION, REAR	1	(EB, GN)
P4	SFHD122N05-1	PAD, TOP	1	(E, PP)
P4	RPQ0365-1	PAD, TOP	1	(EB, GN)
P5	SFHD122-02	PAD (A)	1	
P6	RPN0306	PAD (B)	1	
P7	RPH0133	PROTECTION SHEET	1	
P8	SFHZ122-01	PROTECTION SHEET	1	
P9	XZB60X65A01X	POLYETHYLENE BAG	2	
P10	XZB45X50A01X	POLYETHYLENE BAG	1	
P11	SFYF09A15Z	PROTECTION BAG	2	
P12	XZB05X06C03Z	POLYETHYLENE BAG	2	
P14	XZB25X34C03X	PROTECTION BAG	1	
P17	RPQ0608	PAD, TONEARM	1	
P18	XZB10X30C03Z	PROTECTION BAG	1	(EB, GN)
PCB1	REP2094A-5	PCB ASS'Y, DRIVE CONTROL	1	[RTL]
PCB2	REP2221A-3	PCB ASS'Y, PITCH CONTROL	1	[RTL]
PCB3	REP3552A-8	PCB ASS'Y, OPERATION	1	[RTL]
PCB4	REP3553A-8	PCB ASS'Y, LED SW	1	[RTL]
PCB5	REP2093A-1	PCB ASS'Y, POWER SUPPLY	1	[RTL] (E)
PCB5	SFDP122C09E	PCB ASS'Y, POWER SUPPLY	1	[RTL] (PP)
PCB5	REP2346A-1	PCB ASS'Y, POWER SUPPLY	1	[RTL] (EB, GN)
PCB6	SFDH122-10E1	PCB ASS'Y, OUTPUT	1	[RTL]
Q1	2SD126507	TRANSISTOR	1	
Q2, Q3	2SD637-QRS	TRANSISTOR	2	2SD06370W
Q201	2SC1846-QRS	TRANSISTOR	1	2SC18460W
Q202	2SD637-QRS	TRANSISTOR	1	2SD06370W
Q203	2SC2458GR	TRANSISTOR	1	
R1	ERDS2FJ562	1/4W 5.6K	1	
R2	ERDS2TJ682T	1/4W 6.8K	1	
R3	ERDS2TJ272T	1/4W 2.7K	1	
R4, R5	ERDS2FJ471	1/4W 470	2	
R101	ERDS2FJ103	1/4W 10K	1	
R102	ERX1ANJ4R7H	1W 4.7	1	
R103	ERDS2FJ472	1/4W 4.7K	1	
R104	ERDS2FJ473	1/4W 47K	1	
R105	ERDS2FJ103	1/4W 10K	1	
R106	ERDS2FJ150	1/4W 15	1	
R107	ERX1ANJ1R5H	1W 1.5	1	
R108	ERDS2FJ103	1/4W 10K	1	
R109, 10	ERX1ANJ4R7H	1W 4.7	2	
R201	ERGLANJ561H	1W 560	1	
R202	ERDS2FJ103	1/4W 10K	1	
R203	ERDS2FJ470	1/4W 47	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R204	ERDS2TJ272T	1/4W 2.7K	1	
R205	ERDS2TJ124	1/4W 120K	1	
R206	ERDS2TJ183	1/4W 18K	1	
R207	ERDS2FJ563	1/4W 56K	1	
R208	ERDS2FJ224	1/4W 220K	1	
R209	ERDS2FJ334	1/4W 330K	1	
R210	ERDS2TJ183	1/4W 18K	1	
R211	ERDS2FJ472	1/4W 4.7K	1	
R212	ERDS2FJ151	1/4W 150	1	
R213	ERDS2FJ122	1/4W 1.2K	1	
R214	ERDS2FJ223	1/4W 22K	1	
R215	ERDS2FJ472	1/4W 4.7K	1	
R216	ERDS2FJ154	1/4W 150K	1	
R217	ERDS2FJ223	1/4W 22K	1	
R218	ERDS2FJ102	1/4W 1K	1	
R219	ERDS2FJ332	1/4W 3.3K	1	
R220	ERDS2FJ221	1/4W 220	1	
R221	ERDS2FJ471	1/4W 470	1	
R222	ERDS2FJ391	1/4W 390	1	
R301	ER0S2TKG2701	1/4W 2.7K	1	ER0S2TKG2701
R302	ERDS2FJ471	1/4W 470	1	
R303	ERDS2FJ822	1/4W 8.2K	1	
R304	ERDS2FJ561	1/4W 560	1	
R305	ERDS2TJ181	1/4W 180	1	
R306	ERDS2FJ223	1/4W 22K	1	
R307	ERDS2TJ272T	1/4W 2.7K	1	
R509, 10	ERDS1TJ222	1/2W 2.2K	2	
R601	ERCL2UGK335D	1/2W 3.3M	1	(EB, GN) △ ;
R601	ERDS1FJ4R7	1/2W 4.7	1	(E, PP) △
S201, 02	EVQQS204B	SW	2	
S203	SFDS8S01GL13	SW	1	K0KACG000006
S301	SFDZ122N11-3	SW (VR303)	1	
S302	RSF2B010-1J	SW	1	
S401	SFDS2MSL-C	SW	1	
S601	SFDS8S5GL13P	SW	1	K0KACG000007 △
S602	SFDSHXW01317	SW	1	K0ZZ00000489 (E, EB, GN) △
T1	SFDZ122M01E	POWER TRANSFORMER	1	(PP) △
T1	SFDZ122S01E	POWER TRANSFORMER	1	(E, EB, GN) △
VR201	D2BCA54B0005	VR	1	
VR301	D3BA9202A002	VR	1	
VR302	D3BA9503A002	VR	1	
VR303	SFDZ122N11-3	SLIDE VR (S301)	1	D2B9AB4Y0003
X201	RSXB4M13J01	CRYSTAL OSCILLATOR	1	H0H419400004

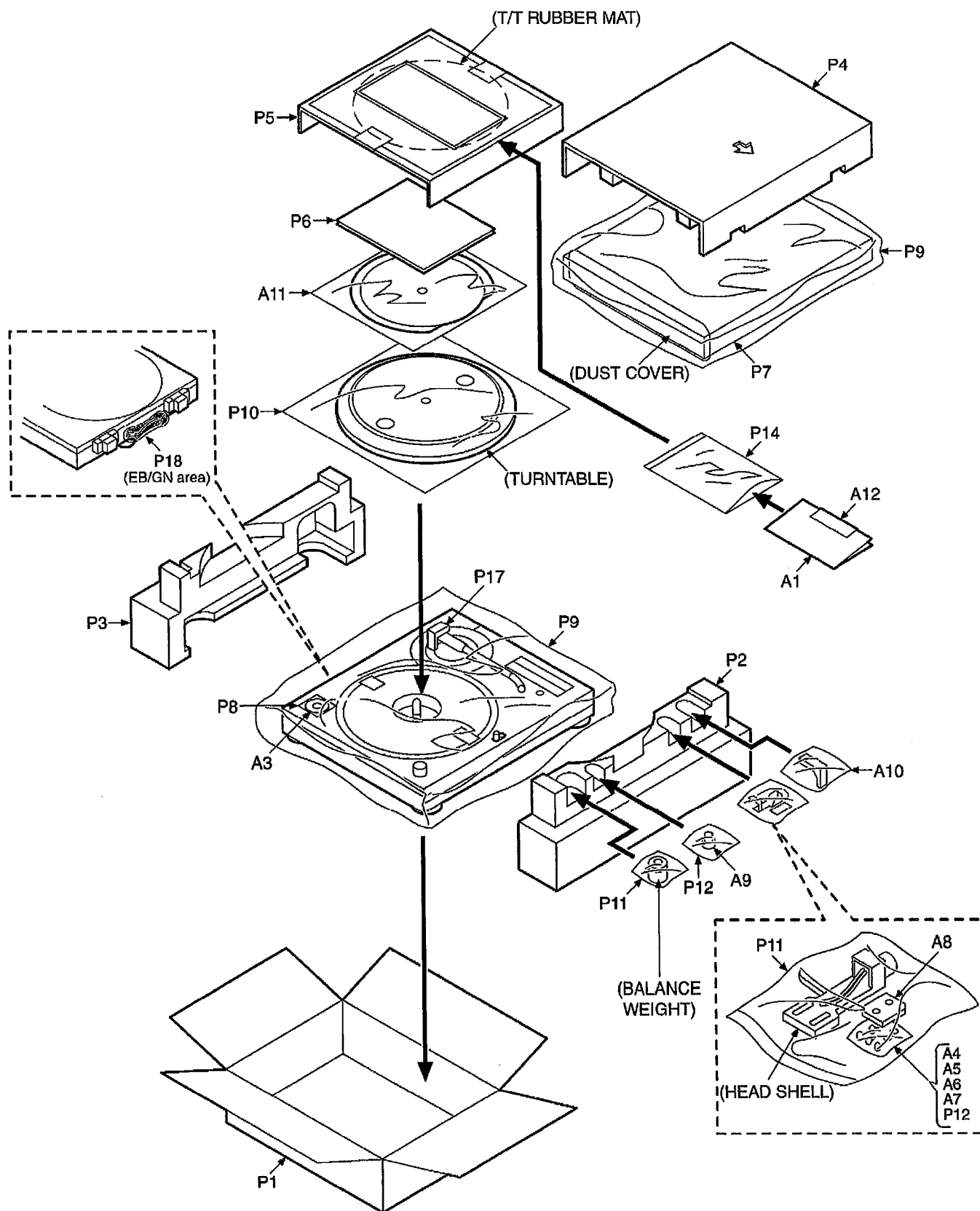
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14.3. Tonearm



15 Packaging



Technics

Printed In USA