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Hello all,

Finally, here it is. The service manual of the famous Technics SL1200Mk2 turntables. If you didn't noticed already, some pages are missing, but those pages weren't very interesting or they were in German language. And that is the last thing you want ;-)

Some pages have to be layed next to each other to get the whole picture, like pages 13, 14 and 16 and 17.

Don't come complaining about the quality of the scanned pictures, because at www.1200s.com you have to pay 20 USDollars for it and now it is for free. Don't tell anyone. ;-)

We hope you can use the service manual for whatever purpose!
have a nice time..

Robert Jan
www.backspin.org

Service Manual

Supplement
New

hart
Schonwieser
SFUP122-23
SFUP122-24
SFUM102NO4

Turntable System

SL-1200MK2

[M], [MC],

[E], [EK], [XL], [EG], [EB], [EH],

[EF], [EI], [XA], [PA], [PE], [PC]

SL-1210MK2

[E], [EG], [EH]



Areas

- * [M] is available in the U.S.A.
- * [MC] is available in Canada.
- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [XL] is available in Australia.
- * [EG] is available in F.R. Germany.
- * [EB] is available in Belgium.
- * [EH] is available in Holland.
- * [EF] is available in France.
- * [EI] is available in Italy.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [PA] is available in far East PK.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.

* SL-1200MK2 is the model for silver type.

* SL-1210MK2 is the model for black type of SL-1200MK2.

Please use this manual together with the service manual for Model No. SL-1200MK2/1210MK2.

English

Specifications

Specifications are subject to change without notice for further improvement.
Weight and dimensions shown are approximate.

General

Power supply: 120V, AC 60 Hz (For [M], [MC] areas)
~ 110-120/220-240V, 50 or 60 Hz
(For other areas)

Power consumption: 14 W (For [M], [MC] areas)
13.5 W (For other areas)

Dimensions: 45.3 x 16.2 x 36 cm

(17.27/32" x 6.19/84" x 14.11/64")

Weight: 12.5 kg (27.6 lb)

Turntable section

Type: Quartz direct drive
Manual turntable

Drive method: Direct drive

Motor: Brushless DC motor

Turntable platter: Aluminum diecast
Diameter 33.2 cm (13.5/64")
Weight 2 kg (4.4 lb)

Turntable speeds: 33-1/3 rpm and 45 rpm

Starting torque: 1.5 kg · cm (1.3 lb · in)

Build-up characteristic: 0.7 s. from standstill to 33-1/3 rpm

Braking system: Electronic brake

Wow and flutter: 0.01% WRMS*

0.025% WRMS (JIS C5621)

± 0.035% peak (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.

Rumble: -55 dB (IEC 98A Unweighted)

-78 dB (IEC 98A Weighted)

Matsushita
Service Call
30 Meadow
Secaucus, NJ

Panasonic-CENTRE NEDERLAND
servicom bv

Technics

Pans
Matsushita Elec
1-2, Ichome, Shibuya

Balie Service Manual

SL-1200MK2/1210MK2

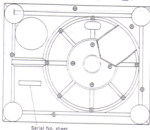
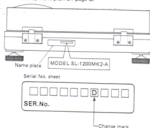
■ Tonarm section

Type:	Universal
Effective length:	230 mm (9-1/16")
Arm height adjustment range:	0 - 6 mm
Overhang:	15 mm (19/32")
Effective mass:	12 g (without cartridge)
Offset angle:	22°
Friction:	Less than 7 mg (lateral), vertical
Tracking error angle:	Within 2°32' (at the outer groove of 30 cm (12") record Within 0°32' (at the inner groove of 30 cm (12") record)

Stylus pressure adjustment range:	0 - 2.5 g
Applicable cartridge weight range:	6 - 10 g
(with auxiliary weight):	13.5 - 17.5 g (including headshell)
(with shell weight):	9.5 - 13 g
(with shell weight):	17 - 20.5 g (including headshell)
(with shell weight):	2.5 - 6.5 g
(with shell weight):	11 - 14 g (including headshell)
Headshell weight:	7.5 g

Notes

- To improve the performance of SL-1200MK2/1210MK2, the bottom structure and circuit are changed in the course of production.
- After the change, SL1200MK2-A/1210MK2-A is indicated in the name plate as the model of the set. It is discriminated from before-change set by -A. Also, check that the present change is of the sets after the change mark  shown in the serial No. sheet attached to the bottom and carton box.
- This supplement service manual contains the bottom plate disassembly procedure, change part No., circuit diagram, P.C.B. and block diagrams. The other contents are the same as for the service manual of SL-1200MK2/1210MK2 already issued.
- Sets with cartridge (EPC-207C) are included in those for same areas.
- Since the power transformer fitting method is different for sets with serial number sheet change mark , refer to the development plan on page 8.



Deutsch

TECHNISCHE DATEN

Änderungen der technischen Daten vorbehalten.
Die angegebenen Gewichts- und Abmessungsdaten sind ungefähre Werte.

■ Allgemeine Daten

Bromversorgung:	~ 110-120/220-240 V, 50/60 Hz
Leistungsaufnahme:	Wechselstrom
Abmessungen:	13.5 W
(B x H x T):	45.3 x 16.2 x 36 cm
Gewicht:	12.5 kg

■ Plattenspieler

Typ:	Manueller Quasi-Direktantrieb-Plattenspieler
Antrieb:	Direktantrieb
Motor:	Kollektionsloser Gleichstrommotor
Plattenteller:	Aluminium-Spritzguß
	Durchmesser 33.2 cm
	Gewicht 2 kg

Plattenteller-Drehzahlen:	33-1/3 und 45 U/min
Antriebsmoment:	1.5 kg · cm
Drehzahl-Hochlaufzeit:	0.7 s. vom Stillstand auf 33-1/3 U/min
Bremsystem:	Elektronische Bremse
Gleichlaufschwankungen:	0.01% WRMS*
	0.025% WRMS (JIS C5621)
	± 0.035% Spitze (IEC 96A bewertet)

* Diese Kennzeichnung bezieht sich auf das Laufwerk-Bauteil allein, ausschließlich Einflüsse von Schallplatte, Tonabnehmer oder Tonarm, aber einschließlich Plattenteller.
Gemessen anhand von Signalen vom eingebauten Frequenzgenerator des Motorbauteils.

Rumpel-Geräuschspannungsbereich:	-56 dB (IEC 96A unbewertet)
	-78 dB (IEC 96A bewertet)

• How to remove the hinge case

1. Remove the bottom cover. (Refer to "How to remove the bottom cover".)
2. Remove the 4 setscrews (Fig. 2 : ⑤) of the hinge case bracket.
3. Remove the 4 setscrews (Fig. 2 : ⑥) of the hinge case.

Note: The other disassembly procedure are the same as for before-change sets.

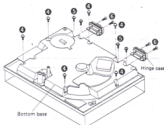


Fig. 2

■ REPLACEMENT PARTS LIST

Notes:

1. This parts list mentions only the difference between before and after change of SL-1200MK2/1210MK2.
2. ⑤-marked parts are used only for SL-1210MK2 (black type). And ⑥-marked parts are used for SL1200MK2 (silver type).
3. Parts other than ⑤- and ⑥-marked are used for both SL-1210MK2 and SL-1200MK2.
4. The "⑤" mark is service standard parts and may differ from production parts.

Areas

- [M] is available in the U.S.A.
- [MC] is available in Canada.
- [E] is available in Switzerland and Scandinavia.
- [EK] is available in United Kingdom.
- [XL] is available in Australia.
- [G] is available in F.R.G. Germany.
- [SB] is available in Belgium.
- [EH] is available in Holland.
- [EP] is available in France.
- [E] is available in Italy.
- [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- [PA] is available in far East PK.
- [PE] is available in European Military.
- [PC] is available in European Audio Club.

The Substituted only by ID-11

Ref. No.	Change of Part No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)			
INTEGRATED CIRCUIT					
IC302	5V1TC40118P	MN40118	NAND Gate	1	
TRANSISTOR					
Q1	2SD389A—Q	2SD1265	Regulator	1	
DIODES					
D1	5VD51R8A40	5VD51R8A20Z	Rectifier	1	△
Q201, 202	5VDSR-105C	5VDP3902S-9	Speed Indicator	2	
Q203 ~ 206	5VDSR9505S	5VDSLH54VT3	Strobe	4	
D401	5VD5L-8P02	5VDSL-8N02	Pitch Indicator	1	
CRYSTAL					
X301	5VQU306115	5VQMS4193	4.193 MHz Oscillator	1	
VARIABLE RESISTORS					
VR301	5VMH2GA00853	5VMH1GA00823	Pitch Control Adjustment, 2kΩ (B)	1	
VR303	5VB05C19A8E	5FDZ122N11	Pitch Control	1	
SWITCHES					
S203	5FOS556GL13C	5FOS5501GL13	Start/Stop	1	
S601	5FOS556GL13S	5FOS556GL13P	Power	1	△
TRANSFORMER					
T1	SLT60EU78	SLT66DTL3A [M]	Power Source	1	△
T1	SLT60E31C	SLT66DT14C [MC]	Power Source	1	△
T1	SLTF9900	SLT66DT13A [Other areas]	Power Source	1	△

Ref. No.	Change of Part No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)			
RESISTORS					
R4	ERD25FJ561	ERD25FJ471	Carbon, 1/4W, 470Ω	1	⑤
R209	ERD25TJ154	ERD25TJ334	Carbon, 1/4W, 330kΩ	1	⑤
R211	ERD25FJ103	ERD25FJ472	Carbon, 1/4W, 4.7kΩ	1	⑤
R212	ERD25FJ121	ERD25FJ151	Carbon, 1/4W, 150Ω	1	⑤
R222	Addition	ERD25FJ391	Carbon, 1/4W, 390Ω	1	⑤
R301	ERD25CKF3301	ERD25CKF2701	Metal Film, 1/4W, 2.7kΩ	1	⑤
R304	ERD25FJ152	ERD25FJ561	Carbon, 1/4W, 560Ω	1	⑤
R401	Addition	ERD50FJ152	Carbon, 1/2W, 1.5kΩ	1	⑤
R601	ERD25FJ4R7	ERD50FJ4R7	Carbon, 1/2W, 4.7Ω	1	⑤
CAPACITORS					
C5, 6	Addition	ECQM1223KZ	Polyester, 125V, 0.022μF	1	⑤
C104 ~ 107	ECQM1H104KZ	ECQM1H104JZ	Polyester, 50V, 0.1μF	4	⑤
C109, 110	ECQM1H104KZ	ECQM1H104JZ	Polyester, 50V, 0.1μF	2	⑤
C111	ECQM1H562KZ	ECQM1H562JZ	Polyester, 50V, 0.0056μF	1	⑤
C204	ECQM1H473KZ	ECQM1H473JZ	Polyester, 50V, 0.047μF	1	⑤
C210	ECQM1H224KZ	ECQM1H224JZ	Polyester, 50V, 0.22μF	1	⑤
C211	ECQM1H473KZ	ECQM1H473JZ	Polyester, 50V, 0.047μF	1	⑤
C217 ~ 219	Addition	ECQD1H104ZF	Ceramic, 50V, 0.1μF	1	⑤
C301	ECQK1123FZ	ECQK1333JZ	Polyester, 125V, 0.033μF	1	⑤
C302	ECQK1123FZ	ECQK1662JZ	Polyester, 125V, 0.0066μF	1	⑤
C305	ECQM1H122KZ	ECQM1H122JZ	Polyester, 50V, 0.0012μF	1	⑤
CABINET AND CHASSIS PARTS					
9	SFUP122-12	Deletion		0	
10	SFAC122-01	SFAC122-01	Cabinet (Silver)	1	○
		SFAC124501	Cabinet (Black)	1	⑤
25	SFXB122-02	SFXB122-06	Box, Drive	1	
33	SFGA001-02	SFGA122-03	Spring	1	
36	SFUP025-01	SFUP122-16 [M, MC, PA, PE, PC]	Bracket, AC Card	1	
	SFUP025X01	SFUP122X01 [Other areas]	Bracket, AC card	1	
38	SFUP132-03	SFGC122-03	Cushion	2	
40	SFUP122-10	Deletion		0	
42	SFKK122-03	SFKK122-03	Plate (Silver)	1	
		SFKK124501	Plate (Black)	1	
48	SFAU122-01	SFAU122-02	Bottom Base	1	
48-1	Addition	SFAU122-03	Bottom Cover	1	
49	SFUP122-05	SFUP122-23	Supporter (A), Hinge	2	
50	SFUP122-04	SFUP122-24	Supporter (B), Hinge	2	
51	SFUM170-07	SFUMM02N04	Case, Hinge	2	
55	SFNN122M01	SFNN122M10 [M]	Name Plate	1	○
	SFNN122C01	SFNN122C10 [MC]	Name Plate	1	○
	SFNN122S01	SFNN122S10 [E]	Name Plate	1	○
	SFNN122L01	SFNN122L10 [EK, XL]	Name Plate	1	○
	SFNN122X01	SFNN122X10 [XA]	Name Plate	1	○
	Addition	SFNN122P10 [PA, PE]	Name Plate	1	○
	Addition	SFNN122P11 [PC]	Name Plate	1	○
	SFNN122N01	SFNN122N10 [Other areas]	Name Plate	1	○
	Addition	SFNN124510 [E]	Name Plate	1	⑤
	Addition	SFNN124G10 [EG, EH]	Name Plate	1	⑤
56	SFX0122-01	Deletion		0	
57	SFX0122-02	Deletion		0	
58	SFAT122-01A	SFATM02N01A	Hinge	1	

SL-1200MK2/1210MK2

Ref. No.	Change of Part No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)			
TONEARM PARTS					
82	SFPAM18201K	SFPAM18201K	Tonearm As'y (Silver)	1	○
		SFPAM18202K	Tonearm As'y (Black)	1	⊗
79	SFPKB17201S	SFPKB17204S	Ring, Arm Base Operation	1	
		SFGK132-01	Cap (Silver)	1	○
82	SFGK132-01	SFGK133601	Cap (Black)	1	⊗
ACCESSORIES					
A1	SFNU122M01	SFNU122M06 [M]	Instruction Book	1	
	SFNU122C01	SFNU122C06	Instruction Book	1	
	SFNU122S01	SFNU122S01 [E]	Instruction Book	1	
	SFNU122G01	SFNU122G01 [E]	Instruction Book	1	
	Addition	SFNU122P01 [PA, PE, PC]	Instruction Book	1	
	SFNU122X01	SFNU122X01 [Other areas]	Instruction Book	1	
A2	SFWE010	SFWE122-01	45 Adaptor	1	
PACKING PARTS					
P1	SFHP122C01	SFHP122C02 [MC, EF]	Carton Box (Silver)	1	○
		SFHP122M02 [Other areas]	Carton Box (Silver)	1	○
	SFHP122M01	SFHP124S02	Carton Box (Black)	1	⊗
P9	Addition	SFPI083	Polyethylene Bag, Accessories	2	
P10	Addition	SFPI15	Polyethylene Bag, Shell Weight	1	
P11	Addition	SFHZ003M01	Polyethylene Bag, Dust Cover	3	
P12	Addition	SFHZ122-01	Polyethylene Bag, 45 Adaptor	1	
P13	Addition	SFPI189	Polyethylene Bag, Cords	2	

■ ADJUSTMENT POINTS

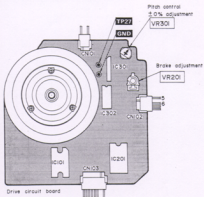


Fig. 3 (Abb. 3)

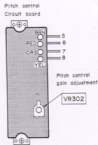


Fig. 4 (Abb. 4)

MEASUREMENTS AND ADJUSTMENTS English

• Conditions of set, and instruments used

1. Remove the panel cover.
2. Remove the bottom cover (when adjusting the pitch control gain).
3. Frequency counter
4. Tester

	Adjustment	Connection	Parts adjusted	Procedure
1	Pitch control $\pm 0\%$ adjustment	Frequency counter (+) — TP27 (-) — Earth point	VR301 (Fig. 3)	1. Connect the frequency counter and turn the power supply ON. 2. Set the pitch control knob to "0". (Indicator lights up.) 3. Adjust VR301 so that the frequency is $262.08 \text{ kHz} \pm 0.05 \text{ kHz}$.
2	Pitch control gain adjustment	Tester (+) — CN102 terminal ③ (-) — CN102 terminal ④	VR302 (Fig. 4)	1. Set the pitch control knob to "0". 2. Pull out the connector CN102 of drive P.C.B. 3. Connect the tester to terminals ③ and ④ of connector CN102 on the pitch control P.C.B. side. 4. Adjust VR302 so that the resistance value of the tester is $2.7 \text{ k}\Omega \pm 0.1 \text{ k}\Omega$.
3	Brake adjustment	—————	VR201 (Fig. 3)	1. Adjust VR201 so that the rotation at 33 r.p.m. stops within the angle of $90^\circ \sim 120^\circ$ after depressing the stop button.

MESSUNGEN UND JUSTIERUNGEN Deutsch

• Zustand des Gerätes und zu verwendende Instrumente

1. Die Abdeckplatte entfernen.
2. Die Bodenabdeckung entfernen (wenn die Drehzahlregelungs-Verstärkung justiert werden soll).
3. Frequenzzähler
4. Prüfgerät

	Justierung	Anschlüsse	Zu justierender Teile	Vorgehen
1	$\pm 0\%$ -Justierung des Drehzahlreglers	Frequenzzähler (+) — TP27 (-) — Messpunkt	VR301 (Abb. 3)	1. Frequenzzähler anschließen und Netzschalter einschalten. 2. Drehzahlreglerknopf auf "0" stellen. (Anzeige leuchtet auf.) 3. VR301 so justieren, daß die Frequenz $262.08 \text{ kHz} \pm 0.05 \text{ kHz}$ beträgt.
2	Justierung der Drehzahlregelungs-Verstärkung	Prüfgerät (+) — CN102 Anschluß ③ (-) — CN102 Anschluß ④	VR302 (Abb. 4)	1. Den Drehzahlreglerknopf auf "0" einstellen. 2. Steckverbindung CN102 von der Antriebsplatine herausziehen. 3. Prüfgerät an Anschlüsse ③ und ④ der Steckverbindung CN102 auf der Drehzahlreglerseite der Platine anschließen. 4. VR302 so justieren, daß der Widerstandswert des Prüfgerätes $2.7 \text{ k}\Omega \pm 0.1 \text{ k}\Omega$ beträgt.
3	Bremsjustierung	—————	VR201 (Abb. 3)	1. VR201 so justieren, daß die Rotation bei 33 UPM innerhalb $90^\circ \sim 120^\circ$ nach Drücken der Stop-Taste stoppt.

RESISTORS AND CAPACITORS

onsemi Parts

1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice:
Components identified by Δ mark have special characteristics for safety. When replacing any of these components use only manufacturer's specified parts.
3. The "15" mark is service standard parts and may differ from production parts.
4. Bracketed indications in Ref. No. column specify the area. Parts without these indications can be used for all area.
5. The unit of resistance is Ω (ohm).
K = 1000 Ω , M = 1000K Ω
The unit capacitance is μ F (microfarad).
P = 10⁻⁶ μ F

Area

- * [M] is available in the U.S.A.
- * [MC] is available in Canada.
- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [KL] is available in Australia.
- * [GG] is available in F.R. Germany.
- * [ER] is available in Belgium.
- * [EW] is available in Holland.
- * [EP] is available in France.
- * [EU] is available in Italy.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [PA] is available in far East PK.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.



Numbering System of Resistor

Example

ERD	25	P	J	101
Type	Wattage	Shape	Tolerance	Value
ERX	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value

Resistor type	Wattage	Tolerance
ERD: Carbon	25 : 1/4W	F : $\pm 1\%$
ERG: Metal Oxide	50 : 1/2W	J : $\pm 5\%$
ERD: Metal Film	1A : 1W	
ERX: Metal Film	2A : 2W	

Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Regularity
ECEA	50	M	R47	R
Type	Voltage	Regularity use	Value	Special use

Capacitor Type	Voltage	Tolerance
ECEA : Electrolytic	0J : 6.3V	J : $\pm 5\%$
ECES : Electrolytic	1G : 16V	K : $\pm 5\%$
ECOD : Ceramic	1E : 25V	M : $\pm 20\%$
ECOM : Polyester	1H : 50V	Z : $\pm 80\% - 20\%$
ECOU : Polyester	1 : 100V	
ECQP : Polyester	1A : 125V	
ECNC : Polyester	4A : 400V	

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS			CAPACITORS								
R1	ERD25P100	5.6K	R210	ERD25P110	1.0K	C210	ECODH100J2	0.02	C211	ECODH100J2	0.02
R2	ERD25P100	5.6K	R211	ERD25P110	1.0K	C212	ECODH100J2	0.02	C213	ECODH100J2	0.02
R3	ERD25P100	2.7K	R212	ERD25P110	1.0K	C214	ECODH100J2	0.02	C215	ECODH100J2	0.02
R4	ERD25P100	4.7K	R213	ERD25P110	1.0K	C216	ECODH100J2	0.02	C217	ECODH100J2	0.02
R5	ERD25P100	10K	R214	ERD25P110	1.0K	C218	ECODH100J2	0.02	C219	ECODH100J2	0.02
R6	ERD25P100	4.7K	R215	ERD25P110	1.0K	C220	ECODH100J2	0.02	C221	ECODH100J2	0.02
R7	ERD25P100	4.7K	R216	ERD25P110	1.0K	C222	ECODH100J2	0.02	C223	ECODH100J2	0.02
R8	ERD25P100	4.7K	R217	ERD25P110	1.0K	C224	ECODH100J2	0.02	C225	ECODH100J2	0.02
R9	ERD25P100	4.7K	R218	ERD25P110	1.0K	C226	ECODH100J2	0.02	C227	ECODH100J2	0.02
R10	ERD25P100	4.7K	R219	ERD25P110	1.0K	C228	ECODH100J2	0.02	C229	ECODH100J2	0.02
R11	ERD25P100	4.7K	R220	ERD25P110	1.0K	C230	ECODH100J2	0.02	C231	ECODH100J2	0.02
R12	ERD25P100	4.7K	R221	ERD25P110	1.0K	C232	ECODH100J2	0.02	C233	ECODH100J2	0.02
R13	ERD25P100	4.7K	R222	ERD25P110	1.0K	C234	ECODH100J2	0.02	C235	ECODH100J2	0.02
R14	ERD25P100	4.7K	R223	ERD25P110	1.0K	C236	ECODH100J2	0.02	C237	ECODH100J2	0.02
R15	ERD25P100	4.7K	R224	ERD25P110	1.0K	C238	ECODH100J2	0.02	C239	ECODH100J2	0.02
R16	ERD25P100	4.7K	R225	ERD25P110	1.0K	C240	ECODH100J2	0.02	C241	ECODH100J2	0.02
R17	ERD25P100	4.7K	R226	ERD25P110	1.0K	C242	ECODH100J2	0.02	C243	ECODH100J2	0.02
R18	ERD25P100	4.7K	R227	ERD25P110	1.0K	C244	ECODH100J2	0.02	C245	ECODH100J2	0.02
R19	ERD25P100	4.7K	R228	ERD25P110	1.0K	C246	ECODH100J2	0.02	C247	ECODH100J2	0.02
R20	ERD25P100	4.7K	R229	ERD25P110	1.0K	C248	ECODH100J2	0.02	C249	ECODH100J2	0.02
R21	ERD25P100	4.7K	R230	ERD25P110	1.0K	C250	ECODH100J2	0.02	C251	ECODH100J2	0.02
R22	ERD25P100	4.7K	R231	ERD25P110	1.0K	C252	ECODH100J2	0.02	C253	ECODH100J2	0.02
R23	ERD25P100	4.7K	R232	ERD25P110	1.0K	C254	ECODH100J2	0.02	C255	ECODH100J2	0.02
R24	ERD25P100	4.7K	R233	ERD25P110	1.0K	C256	ECODH100J2	0.02	C257	ECODH100J2	0.02
R25	ERD25P100	4.7K	R234	ERD25P110	1.0K	C258	ECODH100J2	0.02	C259	ECODH100J2	0.02
R26	ERD25P100	4.7K	R235	ERD25P110	1.0K	C260	ECODH100J2	0.02	C261	ECODH100J2	0.02
R27	ERD25P100	4.7K	R236	ERD25P110	1.0K	C262	ECODH100J2	0.02	C263	ECODH100J2	0.02
R28	ERD25P100	4.7K	R237	ERD25P110	1.0K	C264	ECODH100J2	0.02	C265	ECODH100J2	0.02
R29	ERD25P100	4.7K	R238	ERD25P110	1.0K	C266	ECODH100J2	0.02	C267	ECODH100J2	0.02
R30	ERD25P100	4.7K	R239	ERD25P110	1.0K	C268	ECODH100J2	0.02	C269	ECODH100J2	0.02
R31	ERD25P100	4.7K	R240	ERD25P110	1.0K	C270	ECODH100J2	0.02	C271	ECODH100J2	0.02
R32	ERD25P100	4.7K	R241	ERD25P110	1.0K	C272	ECODH100J2	0.02	C273	ECODH100J2	0.02
R33	ERD25P100	4.7K	R242	ERD25P110	1.0K	C274	ECODH100J2	0.02	C275	ECODH100J2	0.02
R34	ERD25P100	4.7K	R243	ERD25P110	1.0K	C276	ECODH100J2	0.02	C277	ECODH100J2	0.02
R35	ERD25P100	4.7K	R244	ERD25P110	1.0K	C278	ECODH100J2	0.02	C279	ECODH100J2	0.02
R36	ERD25P100	4.7K	R245	ERD25P110	1.0K	C280	ECODH100J2	0.02	C281	ECODH100J2	0.02
R37	ERD25P100	4.7K	R246	ERD25P110	1.0K	C282	ECODH100J2	0.02	C283	ECODH100J2	0.02
R38	ERD25P100	4.7K	R247	ERD25P110	1.0K	C284	ECODH100J2	0.02	C285	ECODH100J2	0.02
R39	ERD25P100	4.7K	R248	ERD25P110	1.0K	C286	ECODH100J2	0.02	C287	ECODH100J2	0.02
R40	ERD25P100	4.7K	R249	ERD25P110	1.0K	C288	ECODH100J2	0.02	C289	ECODH100J2	0.02
R41	ERD25P100	4.7K	R250	ERD25P110	1.0K	C290	ECODH100J2	0.02	C291	ECODH100J2	0.02
R42	ERD25P100	4.7K	R251	ERD25P110	1.0K	C292	ECODH100J2	0.02	C293	ECODH100J2	0.02
R43	ERD25P100	4.7K	R252	ERD25P110	1.0K	C294	ECODH100J2	0.02	C295	ECODH100J2	0.02
R44	ERD25P100	4.7K	R253	ERD25P110	1.0K	C296	ECODH100J2	0.02	C297	ECODH100J2	0.02
R45	ERD25P100	4.7K	R254	ERD25P110	1.0K	C298	ECODH100J2	0.02	C299	ECODH100J2	0.02
R46	ERD25P100	4.7K	R255	ERD25P110	1.0K	C300	ECODH100J2	0.02	C301	ECODH100J2	0.02
R47	ERD25P100	4.7K	R256	ERD25P110	1.0K	C302	ECODH100J2	0.02	C303	ECODH100J2	0.02
R48	ERD25P100	4.7K	R257	ERD25P110	1.0K	C304	ECODH100J2	0.02	C305	ECODH100J2	0.02
R49	ERD25P100	4.7K	R258	ERD25P110	1.0K	C306	ECODH100J2	0.02	C307	ECODH100J2	0.02
R50	ERD25P100	4.7K	R259	ERD25P110	1.0K	C308	ECODH100J2	0.02	C309	ECODH100J2	0.02
R51	ERD25P100	4.7K	R260	ERD25P110	1.0K	C310	ECODH100J2	0.02	C311	ECODH100J2	0.02
R52	ERD25P100	4.7K	R261	ERD25P110	1.0K	C312	ECODH100J2	0.02	C313	ECODH100J2	0.02
R53	ERD25P100	4.7K	R262	ERD25P110	1.0K	C314	ECODH100J2	0.02	C315	ECODH100J2	0.02
R54	ERD25P100	4.7K	R263	ERD25P110	1.0K	C316	ECODH100J2	0.02	C317	ECODH100J2	0.02
R55	ERD25P100	4.7K	R264	ERD25P110	1.0K	C318	ECODH100J2	0.02	C319	ECODH100J2	0.02
R56	ERD25P100	4.7K	R265	ERD25P110	1.0K	C320	ECODH100J2	0.02	C321	ECODH100J2	0.02
R57	ERD25P100	4.7K	R266	ERD25P110	1.0K	C322	ECODH100J2	0.02	C323	ECODH100J2	0.02
R58	ERD25P100	4.7K	R267	ERD25P110	1.0K	C324	ECODH100J2	0.02	C325	ECODH100J2	0.02
R59	ERD25P100	4.7K	R268	ERD25P110	1.0K	C326	ECODH100J2	0.02	C327	ECODH100J2	0.02
R60	ERD25P100	4.7K	R269	ERD25P110	1.0K	C328	ECODH100J2	0.02	C329	ECODH100J2	0.02
R61	ERD25P100	4.7K	R270	ERD25P110	1.0K	C330	ECODH100J2	0.02	C331	ECODH100J2	0.02
R62	ERD25P100	4.7K	R271	ERD25P110	1.0K	C332	ECODH100J2	0.02	C333	ECODH100J2	0.02
R63	ERD25P100	4.7K	R272	ERD25P110	1.0K	C334	ECODH100J2	0.02	C335	ECODH100J2	0.02
R64	ERD25P100	4.7K	R273	ERD25P110	1.0K	C336	ECODH100J2	0.02	C337	ECODH100J2	0.02
R65	ERD25P100	4.7K	R274	ERD25P110	1.0K	C338	ECODH100J2	0.02	C339	ECODH100J2	0.02
R66	ERD25P100	4.7K	R275	ERD25P110	1.0K	C340	ECODH100J2	0.02	C341	ECODH100J2	0.02
R67	ERD25P100	4.7K	R276	ERD25P110	1.0K	C342	ECODH100J2	0.02	C343	ECODH100J2	0.02
R68	ERD25P100	4.7K	R277	ERD25P110	1.0K	C344	ECODH100J2	0.02	C345	ECODH100J2	0.02
R69	ERD25P100	4.7K	R278	ERD25P110	1.0K	C346	ECODH100J2	0.02	C347	ECODH100J2	0.02
R70	ERD25P100	4.7K	R279	ERD25P110	1.0K	C348	ECODH100J2	0.02	C349	ECODH100J2	0.02
R71	ERD25P100	4.7K	R280	ERD25P110	1.0K	C350	ECODH100J2	0.02	C351	ECODH100J2	0.02
R72	ERD25P100	4.7K	R281	ERD25P110	1.0K	C352	ECODH100J2	0.02	C353	ECODH100J2	0.02
R73	ERD25P100	4.7K	R282	ERD25P110	1.0K	C354	ECODH100J2	0.02	C355	ECODH100J2	0.02
R74	ERD25P100	4.7K	R283	ERD25P110	1.0K	C356	ECODH100J2	0.02	C357	ECODH100J2	0.02
R75	ERD25P100	4.7K	R284	ERD25P110	1.0K	C358	ECODH100J2	0.02	C359	ECODH100J2	0.02
R76	ERD25P100	4.7K	R285	ERD25P110	1.0K	C360	ECODH100J2	0.02	C361	ECODH100J2	0.02
R77	ERD25P100	4.7K	R286	ERD25P110	1.0K	C362	ECODH100J2	0.02	C363	ECODH100J2	0.02
R78	ERD25P100	4.7K	R287	ERD25P110	1.0K	C364	ECODH100J2	0.02	C365	ECODH100J2	0.02
R79	ERD25P100	4.7K	R288	ERD25P110	1.0K	C366	ECODH100J2	0.02	C367	ECODH100J2	0.02
R80	ERD25P100	4.7K	R289	ERD25P110	1.0K	C368	ECODH100J2	0.02	C369	ECODH100J2	0.02
R81	ERD25P100	4.7K	R290	ERD25P110	1.0K	C370	ECODH100J2	0.02	C371	ECODH100J2	0.02

■ REPLACEMENT PARTS LIST

- Notes:**
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 2. Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
 3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
 4. The "S" mark is service standard parts and may differ from production parts.
 5. The parenthesized numbers in the column of description stand for the quantity per set.
 6. $\otimes$ -marked parts are used only for SL-1210MK2 (black type). And $\circ$ -marked parts are used for SL-1200MK2 (silver type).
 7. Parts other than $\otimes$ - and $\circ$ -marked are used for both SL-1210MK2 and SL-1200MK2.

Area

- [M] is available in the U.S.A.
- [MC] is available in Canada.
- [E] is available in Switzerland and Scandinavia.
- [EK] is available in United Kingdom.
- [XL] is available in Australia.
- [EG] is available in F.R. Germany.
- [EB] is available in Belgium.
- [EH] is available in Holland.
- [EP] is available in France.
- [EI] is available in Italy.
- [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- [PA] is available in far East FX.
- [PB] is available in European Military.
- [PC] is available in European Audio Club.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
INTEGRATED CIRCUITS			CRYSTAL			LAMP		
IC19	AN6673	Tunable Drive	X201	SVCM34193	4.193MHz	P1	SP2102-20 X	100W Halogen
IC201	AN6682	Tunable Control	VARIABLE RESISTORS			TRANSFORMER		
IC302	MN0718	Push Control	VR201	SVT32MA00804	Break Adjustment	R1(M)	Δ SL7MCT13A	Power Source
TRANSISTORS			VR301	EVH113A00803	Push Control	R1(MC)	Δ SL7MCT14C	Power Source
Q1	2SD1285	Regulator	VR302	SVT32MA00804	Push Control	R1(Other area)	Δ SL7MCT14C	Power Source
Q2,3	2SD407	Regulator	VR303	SVT32MA00804	Push Control	FUSES		
Q201	2SD1845-A	Regulator	SWITCHES			R1(MC)	Δ KSA1712N14	125V 1.5A
Q302	2SD407	LED Driver	S201,202	SVGPR90025-9	Speed Selector	R1(Except for [M,MC])	Δ KSA2002T1A	250V 7250mA
Q303	2SD1338-T	PS Amp	S401	SVGDS0045L-C	Speed Indicator	R1(Except for [M,MC])	Δ KSA2010T9D	250V 71A
DIODES			S602	SVGDS0045L-C	Power Voltage Selector			
D1	Δ SVGDS18BA202	Rectifier						
D2	MA1081	5.1V Zener						
D201,202	SVGPR90025-9	Speed Indicator						
D203~206	SVGDS18BV73	Bridge						
D204	MA1081	5.1V Zener						
D401	MA1081	5.1V Zener						
D402	Δ SVGDS18BV73	Power Indicator						

fader

snelheidsind

Ref. No.	Part No.
1	Chassis
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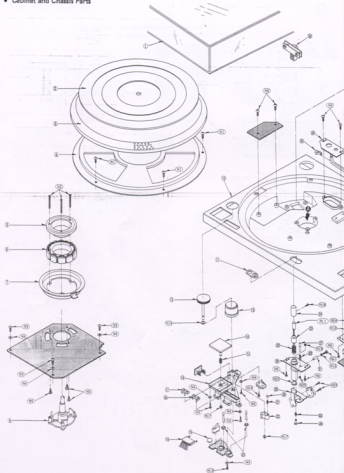
SL-1200MK2/1210MK2



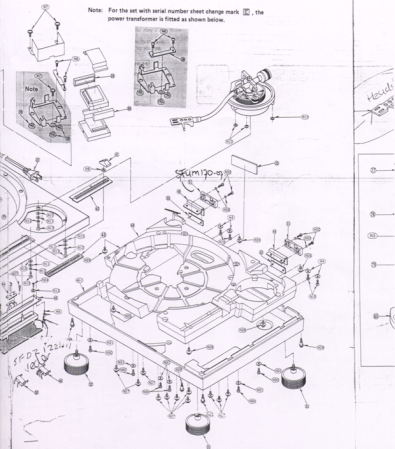
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CHASSIS AND CHASSIS PARTS			TONEARM PARTS			ACCESSORIES		
1	SPAC122-01A	Coil Cover	62	SPG0122-02E	Insulator	N31	SWG32F	Washer
2	SPG122-01	Turntable Mat	63	SPK0122-02E	Button, Screw	N32	XSN31+14BV5	Screw
3	SPG122-01	Turntable Motor Assy	64	SPK0122-01	Name Plate	N33	XN32F	Washer
4	SPG122-05	Cover, Cabinet	65	SPK122015	Name Plate	N34	SPGASB5-1	Screw
5	SPMG025-01	Cover, Drive Coil	66	SPK122016	Name Plate	N35	XSN31+4B5	Washer
6	SPMG025-01A	Drive Coil Assy	67	SPK122017	Name Plate	N36	XUC3PT	Clamp
7	SPMG122-01E	PG Coil Assy	68	SPK122018	Name Plate	N37	SPG12201	Screw
8	SPMG122-01A	Shift Assy, Turntable	69	SPK122019	Name Plate	N38	XTN31+25B	Screw
9	SPMG122-01A	Shift Assy, Turntable	70	SPK122020	Name Plate	N39	SPG12201	Washer
10	SPAC122-01	Cabinet (Silver)	71	SPK122021	Name Plate	N40	XSN31+6BV5	Screw
11	SPAC122001	Cabinet (Black)	72	SPK122022	Name Plate	N41	XWG32F	Washer
12	SPG122-04	Ornament, Stylus	73	SPK122023	Name Plate	N42	XSN31+12BV5	Screw
13	SPG122-01	Hummer	74	SPK122024	Name Plate	N43	XWG32F	Washer
14	SPG122-01E	Cass, Power Transformer	75	SPK122025	Name Plate	N44	SPG0122-01	Washer
15	SPG122-01	Cass, Power Transformer	76	SPK122026	Name Plate	N45	SPG0122-02E	Washer
16	SPG122-01	Cass, Power Transformer	77	SPK122027	Name Plate	N46	XTN31+5E	Screw
17	SPG122-01	Cass, Power Transformer	78	SPK122028	Name Plate			
18	SPG122-01	Cass, Power Transformer	79	SPK122029	Name Plate			
19	SPG122-01	Cass, Power Transformer	80	SPK122030	Name Plate			
20	SPG122-01	Cass, Power Transformer	81	SPK122031	Name Plate			
21	SPG122-01	Cass, Power Transformer	82	SPK122032	Name Plate			
22	SPG122-01	Cass, Power Transformer	83	SPK122033	Name Plate			
23	SPG122-01	Cass, Power Transformer	84	SPK122034	Name Plate			
24	SPG122-01	Cass, Power Transformer	85	SPK122035	Name Plate			
25	SPG122-01	Cass, Power Transformer	86	SPK122036	Name Plate			
26	SPG122-01	Cass, Power Transformer	87	SPK122037	Name Plate			
27	SPG122-01	Cass, Power Transformer	88	SPK122038	Name Plate			
28	SPG122-01	Cass, Power Transformer	89	SPK122039	Name Plate			
29	SPG122-01	Cass, Power Transformer	90	SPK122040	Name Plate			
30	SPG122-01	Cass, Power Transformer	91	SPK122041	Name Plate			
31	SPG122-01	Cass, Power Transformer	92	SPK122042	Name Plate			
32	SPG122-01	Cass, Power Transformer	93	SPK122043	Name Plate			
33	SPG122-01	Cass, Power Transformer	94	SPK122044	Name Plate			
34	SPG122-01	Cass, Power Transformer	95	SPK122045	Name Plate			
35	SPG122-01	Cass, Power Transformer	96	SPK122046	Name Plate			
36	SPG122-01	Cass, Power Transformer	97	SPK122047	Name Plate			
37	SPG122-01	Cass, Power Transformer	98	SPK122048	Name Plate			
38	SPG122-01	Cass, Power Transformer	99	SPK122049	Name Plate			
39	SPG122-01	Cass, Power Transformer	100	SPK122050	Name Plate			
40	SPG122-01	Cass, Power Transformer	101	SPK122051	Name Plate			
41	SPG122-01	Cass, Power Transformer	102	SPK122052	Name Plate			
42	SPG122-01	Cass, Power Transformer	103	SPK122053	Name Plate			
43	SPG122-01	Cass, Power Transformer	104	SPK122054	Name Plate			
44	SPG122-01	Cass, Power Transformer	105	SPK122055	Name Plate			
45	SPG122-01	Cass, Power Transformer	106	SPK122056	Name Plate			
46	SPG122-01	Cass, Power Transformer	107	SPK122057	Name Plate			
47	SPG122-01	Cass, Power Transformer	108	SPK122058	Name Plate			
48	SPG122-01	Cass, Power Transformer	109	SPK122059	Name Plate			
49	SPG122-01	Cass, Power Transformer	110	SPK122060	Name Plate			
50	SPG122-01	Cass, Power Transformer	111	SPK122061	Name Plate			
51	SPG122-01	Cass, Power Transformer	112	SPK122062	Name Plate			
52	SPG122-01	Cass, Power Transformer	113	SPK122063	Name Plate			
53	SPG122-01	Cass, Power Transformer	114	SPK122064	Name Plate			
54	SPG122-01	Cass, Power Transformer	115	SPK122065	Name Plate			
55	SPG122-01	Cass, Power Transformer	116	SPK122066	Name Plate			
56	SPG122-01	Cass, Power Transformer	117	SPK122067	Name Plate			
57	SPG122-01	Cass, Power Transformer	118	SPK122068	Name Plate			
58	SPG122-01	Cass, Power Transformer	119	SPK122069	Name Plate			
59	SPG122-01	Cass, Power Transformer	120	SPK122070	Name Plate			
60	SPG122-01	Cass, Power Transformer	121	SPK122071	Name Plate			
61	SPG122-01	Cass, Power Transformer	122	SPK122072	Name Plate			
62	SPG122-01	Cass, Power Transformer	123	SPK122073	Name Plate			
63	SPG122-01	Cass, Power Transformer	124	SPK122074	Name Plate			
64	SPG122-01	Cass, Power Transformer	125	SPK122075	Name Plate			
65	SPG122-01	Cass, Power Transformer	126	SPK122076	Name Plate			
66	SPG122-01	Cass, Power Transformer	127	SPK122077	Name Plate			
67	SPG122-01	Cass, Power Transformer	128	SPK122078	Name Plate			
68	SPG122-01	Cass, Power Transformer	129	SPK122079	Name Plate			
69	SPG122-01	Cass, Power Transformer	130	SPK122080	Name Plate			
70	SPG122-01	Cass, Power Transformer	131	SPK122081	Name Plate			
71	SPG122-01	Cass, Power Transformer	132	SPK122082	Name Plate			
72	SPG122-01	Cass, Power Transformer	133	SPK122083	Name Plate			
73	SPG122-01	Cass, Power Transformer	134	SPK122084	Name Plate			
74	SPG122-01	Cass, Power Transformer	135	SPK122085	Name Plate			
75	SPG122-01	Cass, Power Transformer	136	SPK122086	Name Plate			
76	SPG122-01	Cass, Power Transformer	137	SPK122087	Name Plate			
77	SPG122-01	Cass, Power Transformer	138	SPK122088	Name Plate			
78	SPG122-01	Cass, Power Transformer	139	SPK122089	Name Plate			
79	SPG122-01	Cass, Power Transformer	140	SPK122090	Name Plate			
80	SPG122-01	Cass, Power Transformer	141	SPK122091	Name Plate			
81	SPG122-01	Cass, Power Transformer	142	SPK122092	Name Plate			
82	SPG122-01	Cass, Power Transformer	143	SPK122093	Name Plate			
83	SPG122-01	Cass, Power Transformer	144	SPK122094	Name Plate			
84	SPG122-01	Cass, Power Transformer	145	SPK122095	Name Plate			
85	SPG122-01	Cass, Power Transformer	146	SPK122096	Name Plate			
86	SPG122-01	Cass, Power Transformer	147	SPK122097	Name Plate			
87	SPG122-01	Cass, Power Transformer	148	SPK122098	Name Plate			
88	SPG122-01	Cass, Power Transformer	149	SPK122099	Name Plate			
89	SPG122-01	Cass, Power Transformer	150	SPK122100	Name Plate			
90	SPG122-01	Cass, Power Transformer	151	SPK122101	Name Plate			
91	SPG122-01	Cass, Power Transformer	152	SPK122102	Name Plate			
92	SPG122-01	Cass, Power Transformer	153	SPK122103	Name Plate			
93	SPG122-01	Cass, Power Transformer	154	SPK122104	Name Plate			
94	SPG122-01	Cass, Power Transformer	155	SPK122105	Name Plate			
95	SPG122-01	Cass, Power Transformer	156	SPK122106	Name Plate			
96	SPG122-01	Cass, Power Transformer	157	SPK122107	Name Plate			
97	SPG122-01	Cass, Power Transformer	158	SPK122108	Name Plate			
98	SPG122-01	Cass, Power Transformer	159	SPK122109	Name Plate			
99	SPG122-01	Cass, Power Transformer	160	SPK122110	Name Plate			
100	SPG122-01	Cass, Power Transformer	161	SPK122111	Name Plate			
101	SPG122-01	Cass, Power Transformer	162	SPK122112	Name Plate			
102	SPG122-01	Cass, Power Transformer	163	SPK122113	Name Plate			
103	SPG122-01	Cass, Power Transformer	164	SPK122114	Name Plate			
104	SPG122-01	Cass, Power Transformer	165	SPK122115	Name Plate			
105	SPG122-01	Cass, Power Transformer	166	SPK122116	Name Plate			
106	SPG122-01	Cass, Power Transformer	167	SPK122117	Name Plate			
107	SPG122-01	Cass, Power Transformer	168	SPK122118	Name Plate			
108	SPG122-01	Cass, Power Transformer	169	SPK122119	Name Plate			
109	SPG122-01	Cass, Power Transformer	170	SPK122120	Name Plate			
110	SPG122-01	Cass, Power Transformer	171	SPK122121	Name Plate			
111	SPG122-01	Cass, Power Transformer	172	SPK122122	Name Plate			
112	SPG122-01	Cass, Power Transformer	173	SPK122123	Name Plate			
113	SPG122-01	Cass, Power Transformer	174	SPK122124	Name Plate			
114	SPG122-01	Cass, Power Transformer	175	SPK122125	Name Plate			
115	SPG122-01	Cass, Power Transformer	176	SPK122126	Name Plate			
116	SPG122-01	Cass, Power Transformer	177	SPK122127	Name Plate			
117	SPG122-01	Cass, Power Transformer	178	SPK122128	Name Plate			
118	SPG122-01	Cass, Power Transformer	179	SPK122129	Name Plate			
119	SPG122-01	Cass, Power Transformer	180	SPK122130	Name Plate			
120	SPG122-01	Cass, Power Transformer	181	SPK122131	Name Plate			
121	SPG122-01	Cass, Power Transformer	182	SPK122132	Name Plate			
122	SPG122-01	Cass, Power Transformer	183	SPK122133	Name Plate			
123	SPG122-01	Cass, Power Transformer	184	SPK122134	Name Plate			
124	SPG122-01	Cass, Power Transformer	185	SPK122135	Name Plate			
125	SPG122-01	Cass, Power Transformer	186	SPK122136	Name Plate			
126	SPG122-01	Cass, Power Transformer	187	SPK122137	Name Plate			
127	SPG122-01	Cass, Power Transformer	188	SPK122138	Name Plate			
128	SPG122-01	Cass, Power Transformer	189	SPK122139	Name Plate			
129	SPG122-01	Cass, Power Transformer	190	SPK122140	Name Plate			
130	SPG122-01	Cass, Power Transformer	191	SPK122141	Name Plate			
131	SPG122-01	Cass, Power Transformer	192	SPK122142	Name Plate			
132	SPG122-01	Cass, Power Transformer	193	SPK122143	Name Plate			
133	SPG122-01	Cass, Power Transformer	194	SPK122144	Name Plate			
134	SPG122-01	Cass, Power Transformer	195	SPK122145	Name Plate			
135	SPG122-01	Cass, Power Transformer	196	SPK122146	Name Plate			
136	SPG122-01	Cass, Power Transformer	197	SPK122147	Name Plate			
137	SPG122-01	Cass, Power Transformer	198	SPK122148	Name Plate			
138	SPG122-01	Cass, Power Transformer	199	SPK122149	Name Plate			
139	SPG122-01	Cass, Power Transformer	200	SPK122150	Name Plate			
140	SPG122-01	Cass, Power Transformer	201	SPK122151	Name Plate			
141	SPG122-01	Cass, Power Transformer	202	SPK122152	Name Plate			
142	SPG122-01	Cass, Power Transformer	203	SPK122153	Name Plate			
143	SPG122-01	Cass, Power Transformer	204	SPK122154	Name Plate			
144	SPG122-01	Cass, Power Transformer	205	SPK122155	Name Plate			
145	SPG122-01	Cass, Power Transformer	206	SPK122156	Name Plate			
146	SPG122-01	Cass, Power Transformer	207	SPK122157	Name Plate			
147	SPG122-01	Cass, Power Transformer	208	SPK122158	Name Plate			
148	SPG122-01	Cass, Power Transformer	209	SPK122159	Name Plate			
149	SPG122-01	Cass, Power Transformer	210	SPK122160	Name Plate			
150	SPG122-01	Cass, Power Transformer	211	SPK122161	Name Plate			
151	SPG122-01	Cass, Power Transformer	212	SPK122162	Name Plate			
152	SPG122-01	Cass, Power Transformer	213	SPK122163	Name Plate			
153	SPG122-01	Cass, Power Transformer	214	SPK122164	Name Plate			
154	SPG122-01	Cass, Power Transformer	215	SPK122165	Name Plate			

■ EXPLODED VIEWS

• Cabinet and Chassis Parts

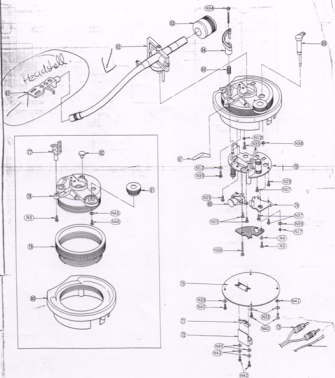


Note: For the set with serial number sheet change mark , the power transformer is fitted as shown below.



■ E

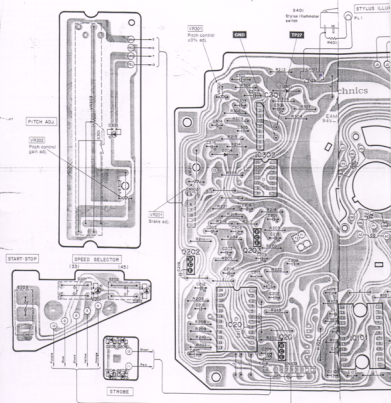
• Tonarm Parts



1200MK2/1210MK2

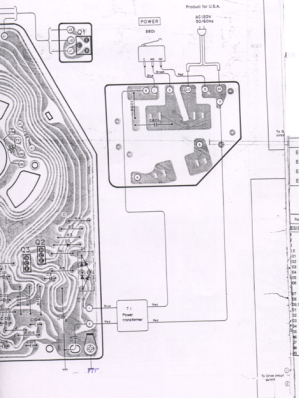
RSGN.

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



SL-1200MK2/1210MK2

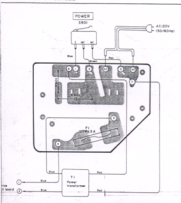
NATION



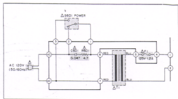
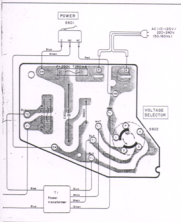
SL-1200MK2/1210MK2

• Power source circuit

* Product for Canada



* Product for [E], [EK], [XL], [EG], [EB], [EH], [EF], [EI], [XA], [PA], [PE] and [PC] areas



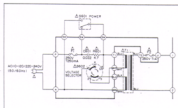
• Product for MC only

FUSE REPLACEMENT

⚡ Symbol located near the fuse indicates fast operating type. For continued protection against fire hazard, replace with same type fuse. Refer to the symbol for fuse rating.

FUSIBLE REMPLACEMENT

⚡ Le symbole qui se trouve près du fusible signifie un fusible à action rapide. Pour une protection conçue contre les risques d'incendie, n'utiliser que des fusibles du même type. Se reporter au symbole pour la valeur des fusibles.



■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

1. S201, 202 : Speed selector switch.
2. S203 : Start/stop switch.
3. S301 : Pitch control reset switch in "off" position.
4. S401 : Stylus illuminator switch in "off" position.
5. S601 : Power switch in "on" position.
6. S602 : Voltage selector in "220 ~ 240" position.
7. The voltage value, and waveforms are the reference voltage values of this unit measured by DC electronic voltmeter (high-impedance) and oscilloscope on the basis of chassis. Therefore, the voltage value and waveform may include some error due to the internal impedance of the tester or the measuring set.
 *  is the voltage when turntable is in stop.
 *  is the voltage when turntable is in rotation. (at 33 rpm)
8.  +B voltage lines.
9. Important safety notice.
 Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
10. The part No. of diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. with  mark the production part No. are different from the replacement part No. Therefore, when placing an order for replacement part, please use the part No. in the replacement parts list.

IMPORTANT SAFETY NOTICE

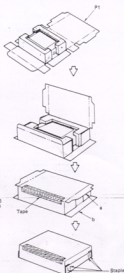
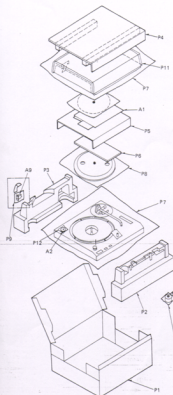
The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

• Terminal guide of transistors, diodes and IC's

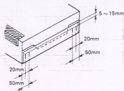
AN6675	AN6680	AN6682	SVD51RBA20P
			
MN4011B 14 Pin		2SD1285	MA150
			
2SC1328	2SC1846	2SD637 2SD641 2SD636 2SD643	MA1051
			
SVDR39025-9 SVD5LH54VT3	SVD5L-8PG2		
			

■ PACKING

1. Place the unit (with cushions attached) as illustrated.
2. Fold the flaps according to the line marks.
3. Seal the top with adhesive tape.
* Use gum tape or adhesive cloth tape of 50mm wide at least.
4. For the edges, first fold the flap "a" and then flap "b", and staple. Remember to staple only flap "b". (Use 15 or 16mm staple)



* Stapling positions are shown below.





Hello all,

Finally, here it is. The service manual of the famous Technics SL1200Mk2 turntables. If you didn't noticed already, some pages are missing, but those pages weren't very interesting or they were in German language. And that is the last thing you want ;-)

Some pages have to be layed next to each other to get the whole picture, like pages 13, 14 and 16 and 17.

Don't come complaining about the quality of the scanned pictures, because at www.1200s.com you have to pay 20 USDollars for it and now it is for free. Don't tell anyone. ;-)

We hope you can use the service manual for whatever purpose!
have a nice time..

Robert Jan
www.backspin.org

Service Manual

Supplement
New

hart
Schonku
SFUP122-23
SFUP122-24
SFUM102NO4

Turntable System

SL-1200MK2

[M], [MC],

[E], [EK], [XL], [EG], [EB], [EH],

[EF], [EI], [XA], [PA], [PE], [PC]

SL-1210MK2

[E], [EG], [EH]



Areas

- * [M] is available in the U.S.A.
- * [MC] is available in Canada.
- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [XL] is available in Australia.
- * [EG] is available in F.R. Germany.
- * [EB] is available in Belgium.
- * [EH] is available in Holland.
- * [EF] is available in France.
- * [EI] is available in Italy.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [PA] is available in far East PK.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.

* SL-1200MK2 is the model for silver type.

* SL-1210MK2 is the model for black type of SL-1200MK2.

Please use this manual together with the service manual for Model No. SL-1200MK2/1210MK2.

English

Specifications

Specifications are subject to change without notice for further improvement.
Weight and dimensions shown are approximate.

General

Power supply: 120V, AC 60 Hz (For [M], [MC] areas)
~ 110-120/220-240V, 50 or 60 Hz
(For other areas)

Power consumption: 14 W (For [M], [MC] areas)
13.5 W (For other areas)

Dimensions: 45.3 x 16.2 x 36 cm

(17.27/32" x 6.19/84" x 14.11/64")

Weight: 12.5 kg (27.6 lb)

Turntable section

Type: Quartz direct drive

Manual turntable

Drive method: Direct drive

Motor: Brushless DC motor

Turntable platter: Aluminum diecast
Diameter 33.2 cm (13.5/64")
Weight 2 kg (4.4 lb)

Turntable speeds: 33-1/3 rpm and 45 rpm

Starting torque: 1.5 kg · cm (1.3 lb · in)

Build-up characteristic: 0.7 s. from standstill to 33-1/3 rpm

Braking system: Electronic brake

Wow and flutter: 0.01% WRMS*

0.025% WRMS (JIS C5621)

± 0.035% peak (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.

Rumble: -55 dB (IEC 98A Unweighted)

-78 dB (IEC 98A Weighted)

Matsushita
Service Call
30 Meadow
Secaucus, NJ

Panasonic-CENTRE NEDERLAND
servicom bv

Technics

Pan
Matsushita Elec
1-2, Ichome, Shibuya

Balie Service Manual

SL-1200MK2/1210MK2

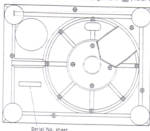
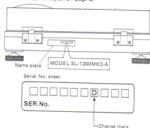
■ Tonarm section

Type:	Universal
Effective length:	230 mm (9-1/16")
Arm height adjustment range:	0 - 6 mm
Overhang:	15 mm (19/32")
Effective mass:	12 g (without cartridge)
Offset angle:	22°
Friction:	Less than 7 mg (lateral), vertical
Tracking error angle:	Within 2°32' (at the outer groove of 30 cm (12") record Within 0°32' (at the inner groove of 30 cm (12") record)

Stylus pressure adjustment range:	0 - 2.5 g
Applicable cartridge weight range:	6 - 10 g
(with auxiliary weight):	13.5 - 17.5 g (including headshell)
(with shell weight):	9.5 - 13 g
(with shell weight):	17 - 20.5 g (including headshell)
(with shell weight):	2.5 - 6.5 g
(with shell weight):	11 - 14 g (including headshell)
Headshell weight:	7.5 g

Notes

- To improve the performance of SL-1200MK2/1210MK2, the bottom structure and circuit are changed in the course of production.
- After the change, SL1200MK2-A/1210MK2-A is indicated in the name plate as the model of the set. It is discriminated from before-change set by -A. Also, check that the present change is of the sets after the change mark  shown in the serial No. sheet attached to the bottom and carton box.
- This supplement service manual contains the bottom plate disassembly procedure, change part No., circuit diagram, P.C.B. and block diagrams. The other contents are the same as for the service manual of SL-1200MK2/1210MK2 already issued.
- Sets with cartridge (EPC-207C) are included in those for same areas.
- Since the power transformer fitting method is different for sets with serial number sheet change mark , refer to the development plan on page 8.



Deutsch

TECHNISCHE DATEN

Änderungen der technischen Daten vorbehalten.
Die angegebenen Gewichts- und Abmessungsdaten sind ungefähre Werte.

■ Allgemeine Daten

Bromversorgung:	~ 110-120/220-240 V, 50/60 Hz
Leistungsaufnahme:	Wechselstrom 13.5 W
Abmessungen:	(B x H x T) : 45.3 x 16.2 x 36 cm
Gewicht:	12.5 kg

■ Plattenspieler

Typ:	Manueller Quasi-Direktantrieb- Plattenspieler
Antrieb:	Direktantrieb
Motor:	Kollektorloser Gleichstrommotor
Plattenteller:	Aluminium-Spritzguss Durchmesser 33.2 cm Gewicht 2 kg

Plattenteller-Drehzahlen:	33-1/3 und 45 U/min
Antriebsmoment:	1.5 kg · cm
Drehzahl-Hochlaufzeit:	0.7 s. vom Stillstand auf 33-1/3 U/min
Bremsystem:	Elektronische Bremse
Gleichlaufschwankungen:	0.01% WRMS*
	0.025% WRMS (JIS C5621)
	± 0.035% Spitze (IEC 96A bewertet)

* Diese Kennzeichnung bezieht sich auf das Laufwerk-Bauteil allein, ausschließlich Einflüsse von Schallplatte, Tonabnehmer oder Tonarm, aber einschließlich Plattenteller.
Gemessen anhand von Signalen vom eingebauten Frequenzgenerator des Motorbauteils.

Rumpel-Geräusch- spannungsbereich:	-56 dB (IEC 96A unbewertet) -78 dB (IEC 96A bewertet)
---------------------------------------	--

• How to remove the hinge case

1. Remove the bottom cover. (Refer to "How to remove the bottom cover".)
2. Remove the 4 setscrews (Fig. 2 : ⑤) of the hinge case bracket.
3. Remove the 4 setscrews (Fig. 2 : ⑥) of the hinge case.

Note: The other disassembly procedure are the same as for before-change sets.

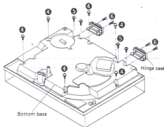


Fig. 2

■ REPLACEMENT PARTS LIST

Notes:

1. This parts list mentions only the difference between before and after change of SL-1200MK2/1210MK2.
2. ⑤-marked parts are used only for SL-1210MK2 (black type). And ⑥-marked parts are used for SL1200MK2 (silver type).
3. Parts other than ⑤- and ⑥-marked are used for both SL-1210MK2 and SL-1200MK2.
4. The "⑤" mark is service standard parts and may differ from production parts.

Areas

- [M] is available in the U.S.A.
- [MC] is available in Canada.
- [E] is available in Switzerland and Scandinavia.
- [EK] is available in United Kingdom.
- [XL] is available in Australia.
- [G] is available in F.R.G. Germany.
- [BB] is available in Belgium.
- [EH] is available in Holland.
- [EP] is available in France.
- [E] is available in Italy.
- [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- [PA] is available in far East PK.
- [PE] is available in European Military.
- [PC] is available in European Audio Club.

The Substituted only by ID-11

Ref. No.	Change of Part No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)			
INTEGRATED CIRCUIT					
IC302	5V1TC40118P	MN40118	NAND Gate	1	
TRANSISTOR					
Q1	2SD389A—Q	2SD1265	Regulator	1	
DIODES					
D1	5VD51R8A40	5VD51R8A20Z	Rectifier	1	△
Q201, 202	5VDSR-105C	5VDP3902S-9	Speed Indicator	2	
Q203 ~ 206	5VDSR9505S	5VDSLH54VT3	Strobe	4	
D401	5VD5L-8P02	5VDSL-8N02	Pitch Indicator	1	
CRYSTAL					
X301	5VQU306115	5VQMS4193	4.193 MHz Oscillator	1	
VARIABLE RESISTORS					
VR301	5VMH2GA00853	5VMH1GA00823	Pitch Control Adjustment, 2kΩ (B)	1	
VR303	5VB05C19A8E	5FDZ122N11	Pitch Control	1	
SWITCHES					
S203	5FOS556GL13C	5FOS5501GL13	Start/Stop	1	
S601	5FOS556GL13S	5FOS556GL13P	Power	1	△
TRANSFORMER					
T1	SLT60EU78	SLT66DTL3A [M]	Power Source	1	△
T1	SLT60E31C	SLT66DT14C [MC]	Power Source	1	△
T1	SLTF9900	SLT66DT13A [Other areas]	Power Source	1	△

Ref. No.	Change of Part No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)			
RESISTORS					
R4	ERD25FJ561	ERD25FJ471	Carbon, 1/4W, 470Ω	1	⑤
R209	ERD25TJ154	ERD25TJ334	Carbon, 1/4W, 330kΩ	1	⑤
R211	ERD25FJ103	ERD25FJ472	Carbon, 1/4W, 4.7kΩ	1	⑤
R212	ERD25FJ121	ERD25FJ151	Carbon, 1/4W, 150Ω	1	⑤
R222	Addition	ERD25FJ391	Carbon, 1/4W, 390Ω	1	⑤
R301	ERD25CKF3301	ERD25CKF2701	Metal Film, 1/4W, 2.7kΩ	1	⑤
R304	ERD25FJ152	ERD25FJ561	Carbon, 1/4W, 560Ω	1	⑤
R401	Addition	ERD50FJ152	Carbon, 1/2W, 1.5kΩ	1	⑤
R601	ERD25FJ4R7	ERD50FJ4R7	Carbon, 1/2W, 4.7Ω	1	⑤
CAPACITORS					
C5, 6	Addition	ECQM1223KZ	Polyester, 125V, 0.022μF	1	⑤
C104 ~ 107	ECQM1H104KZ	ECQM1H104JZ	Polyester, 50V, 0.1μF	4	⑤
C109, 110	ECQM1H104KZ	ECQM1H104JZ	Polyester, 50V, 0.1μF	2	⑤
C111	ECQM1H562KZ	ECQM1H562JZ	Polyester, 50V, 0.0056μF	1	⑤
C204	ECQM1H473KZ	ECQM1H473JZ	Polyester, 50V, 0.047μF	1	⑤
C210	ECQM1H224KZ	ECQM1H224JZ	Polyester, 50V, 0.22μF	1	⑤
C211	ECQM1H473KZ	ECQM1H473JZ	Polyester, 50V, 0.047μF	1	⑤
C217 ~ 219	Addition	ECQD1H104ZF	Ceramic, 50V, 0.1μF	1	⑤
C301	ECQK1123FZ	ECQK13335Z	Polyester, 125V, 0.033μF	1	⑤
C302	ECQK1123FZ	ECQK16620Z	Polyester, 125V, 0.0068μF	1	⑤
C305	ECQM1H122KZ	ECQM1H122JZ	Polyester, 50V, 0.0012μF	1	⑤
CABINET AND CHASSIS PARTS					
9	SFUP122-12	Deletion		0	
10	SFAC122-01	SFAC122-01	Cabinet (Silver)	1	○
		SFAC124501	Cabinet (Black)	1	⑤
25	SFXB122-02	SFXB122-06	Box, Drive	1	
33	SFGA001-02	SFGA122-03	Spring	1	
36	SFUP025-01	SFUP122-16 [M, MC, PA, PE, PC]	Bracket, AC Card	1	
	SFUP025X01	SFUP122X01 [Other areas]	Bracket, AC card	1	
38	SFUP132-03	SFGC122-03	Cushion	2	
40	SFUP122-10	Deletion		0	
42	SFKK122-03	SFKK122-03	Plate (Silver)	1	
		SFKK124501	Plate (Black)	1	
48	SFAU122-01	SFAU122-02	Bottom Base	1	
48-1	Addition	SFAU122-03	Bottom Cover	1	
49	SFUP122-05	SFUP122-23	Supporter (A), Hinge	2	
50	SFUP122-04	SFUP122-24	Supporter (B), Hinge	2	
51	SFUM170-07	SFUMM02N04	Case, Hinge	2	
55	SFNN122M01	SFNN122M10 [M]	Name Plate	1	○
	SFNN122C01	SFNN122C10 [MC]	Name Plate	1	○
	SFNN122S01	SFNN122S10 [E]	Name Plate	1	○
	SFNN122L01	SFNN122L10 [EK, XL]	Name Plate	1	○
	SFNN122X01	SFNN122X10 [XA]	Name Plate	1	○
	Addition	SFNN122P10 [PA, PE]	Name Plate	1	○
	Addition	SFNN122P11 [PC]	Name Plate	1	○
	SFNN122N01	SFNN122N10 [Other areas]	Name Plate	1	○
	Addition	SFNN124510 [E]	Name Plate	1	⑤
	Addition	SFNN124G10 [EG, EH]	Name Plate	1	⑤
56	SFX0122-01	Deletion		0	
57	SFX0122-02	Deletion		0	
58	SFAT122-01A	SFATM02N01A	Hinge	1	

MEASUREMENTS AND ADJUSTMENTS English

• Conditions of set, and instruments used

1. Remove the panel cover.
2. Remove the bottom cover (when adjusting the pitch control gain).
3. Frequency counter
4. Tester

	Adjustment	Connection	Parts adjusted	Procedure
1	Pitch control $\pm 0\%$ adjustment	Frequency counter (+) — TP27 (-) — Earth point	VR301 (Fig. 3)	1. Connect the frequency counter and turn the power supply ON. 2. Set the pitch control knob to "0". (Indicator lights up.) 3. Adjust VR301 so that the frequency is $262.08 \text{ kHz} \pm 0.05 \text{ kHz}$.
2	Pitch control gain adjustment	Tester (+) — CN102 terminal ③ (-) — CN102 terminal ④	VR302 (Fig. 4)	1. Set the pitch control knob to "0". 2. Pull out the connector CN102 of drive P.C.B. 3. Connect the tester to terminals ③ and ④ of connector CN102 on the pitch control P.C.B. side. 4. Adjust VR302 so that the resistance value of the tester is $2.7 \text{ k}\Omega \pm 0.1 \text{ k}\Omega$.
3	Brake adjustment	—————	VR201 (Fig. 3)	1. Adjust VR201 so that the rotation at 33 r.p.m. stops within the angle of $90^\circ \sim 120^\circ$ after depressing the stop button.

MESSUNGEN UND JUSTIERUNGEN Deutsch

• Zustand des Gerätes und zu verwendende Instrumente

1. Die Abdeckplatte entfernen.
2. Die Bodenabdeckung entfernen (wenn die Drehzahlregelungs-Verstärkung justiert werden soll).
3. Frequenzzähler
4. Prüfgerät

	Justierung	Anschlüsse	Zu justierender Teile	Vorgehen
1	$\pm 0\%$ -Justierung des Drehzahlreglers	Frequenzzähler (+) — TP27 (-) — Messpunkt	VR301 (Abb. 3)	1. Frequenzzähler anschließen und Netzschalter einschalten. 2. Drehzahlreglerknopf auf "0" stellen. (Anzeige leuchtet auf.) 3. VR301 so justieren, daß die Frequenz $262.08 \text{ kHz} \pm 0.05 \text{ kHz}$ beträgt.
2	Justierung der Drehzahlregelungs-Verstärkung	Prüfgerät (+) — CN102 Anschluß ③ (-) — CN102 Anschluß ④	VR302 (Abb. 4)	1. Den Drehzahlreglerknopf auf "0" einstellen. 2. Steckverbindung CN102 von der Antriebsplatine herausziehen. 3. Prüfgerät an Anschlüsse ③ und ④ der Steckverbindung CN102 auf der Drehzahlreglerseite der Platine anschließen. 4. VR302 so justieren, daß der Widerstandswert des Prüfgerätes $2.7 \text{ k}\Omega \pm 0.1 \text{ k}\Omega$ beträgt.
3	Bremsjustierung	—————	VR201 (Abb. 3)	1. VR201 so justieren, daß die Rotation bei 33 UPM innerhalb $90^\circ \sim 120^\circ$ nach Drücken der Stop-Taste stoppt.

RESISTORS AND CAPACITORS

onsemi Parts

1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice:
Components identified by Δ mark have special characteristics for safety. When replacing any of these components use only manufacturer's specified parts.
3. The "15" mark is service standard parts and may differ from production parts.
4. Bracketed indications in Ref. No. column specify the area. Parts without these indications can be used for all area.
5. The unit of resistance is Ω (ohm).
K = 1000 Ω , M = 1000K Ω
The unit capacitance is μ F (microfarad).
P = 10⁻⁶ μ F

Area

- * [M] is available in the U.S.A.
- * [MC] is available in Canada.
- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [KL] is available in Australia.
- * [GG] is available in F.R. Germany.
- * [BB] is available in Belgium.
- * [EH] is available in Holland.
- * [EP] is available in France.
- * [EU] is available in Italy.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [PA] is available in far East PK.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.



Numbering System of Resistor

Example

ERD	25	P	J	101
Type	Wattage	Shape	Tolerance	Value
ERX	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value

Resistor type	Wattage	Tolerance
ERD: Carbon	25 : 1/4W	F : $\pm 1\%$
ERG: Metal Oxide	50 : 1/2W	J : $\pm 5\%$
ERD: Metal Film	1A : 1W	
ERX: Metal Film	2A : 2W	

Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Regularity
ECEA	50	M	R47	R
Type	Voltage	Regularity use	Value	Special use

Capacitor Type	Voltage	Tolerance
ECEA : Electrolytic	0J : 6.3V	J : $\pm 5\%$
ECB : Electrolytic	1G : 16V	K : $\pm 5\%$
ECDD : Ceramic	1E : 25V	M : $\pm 20\%$
ECGM : Polyester	1H : 50V	Z : $\pm 80\% - 20\%$
ECGU : Polyester	1 : 100V	
ECQP : Polyester	1A : 125V	
ECNC : Polyester	4A : 400V	

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS			CAPACITORS								
R1	ERD25P050	5.0K	R210	ERD25P100	10K	C210	ECDDH430A2	0.22	C210	ECDDH430A2	0.22
R2	ERD25P050	5.0K	R211	ERD25P100	10K	C211	ECDDH430A2	0.22	C211	ECDDH430A2	0.22
R3	ERD25P050	5.0K	R212	ERD25P100	10K	C212	ECDDH430A2	0.22	C212	ECDDH430A2	0.22
R4	ERD25P050	5.0K	R213	ERD25P100	10K	C213	ECDDH430A2	0.22	C213	ECDDH430A2	0.22
R5	ERD25P050	5.0K	R214	ERD25P100	10K	C214	ECDDH430A2	0.22	C214	ECDDH430A2	0.22
R6	ERD25P050	5.0K	R215	ERD25P100	10K	C215	ECDDH430A2	0.22	C215	ECDDH430A2	0.22
R7	ERD25P050	5.0K	R216	ERD25P100	10K	C216	ECDDH430A2	0.22	C216	ECDDH430A2	0.22
R8	ERD25P050	5.0K	R217	ERD25P100	10K	C217	ECDDH430A2	0.22	C217	ECDDH430A2	0.22
R9	ERD25P050	5.0K	R218	ERD25P100	10K	C218	ECDDH430A2	0.22	C218	ECDDH430A2	0.22
R10	ERD25P050	5.0K	R219	ERD25P100	10K	C219	ECDDH430A2	0.22	C219	ECDDH430A2	0.22
R11	ERD25P050	5.0K	R220	ERD25P100	10K	C220	ECDDH430A2	0.22	C220	ECDDH430A2	0.22
R12	ERD25P050	5.0K	R221	ERD25P100	10K	C221	ECDDH430A2	0.22	C221	ECDDH430A2	0.22
R13	ERD25P050	5.0K	R222	ERD25P100	10K	C222	ECDDH430A2	0.22	C222	ECDDH430A2	0.22
R14	ERD25P050	5.0K	R223	ERD25P100	10K	C223	ECDDH430A2	0.22	C223	ECDDH430A2	0.22
R15	ERD25P050	5.0K	R224	ERD25P100	10K	C224	ECDDH430A2	0.22	C224	ECDDH430A2	0.22
R16	ERD25P050	5.0K	R225	ERD25P100	10K	C225	ECDDH430A2	0.22	C225	ECDDH430A2	0.22
R17	ERD25P050	5.0K	R226	ERD25P100	10K	C226	ECDDH430A2	0.22	C226	ECDDH430A2	0.22
R18	ERD25P050	5.0K	R227	ERD25P100	10K	C227	ECDDH430A2	0.22	C227	ECDDH430A2	0.22
R19	ERD25P050	5.0K	R228	ERD25P100	10K	C228	ECDDH430A2	0.22	C228	ECDDH430A2	0.22
R20	ERD25P050	5.0K	R229	ERD25P100	10K	C229	ECDDH430A2	0.22	C229	ECDDH430A2	0.22
R21	ERD25P050	5.0K	R230	ERD25P100	10K	C230	ECDDH430A2	0.22	C230	ECDDH430A2	0.22
R22	ERD25P050	5.0K	R231	ERD25P100	10K	C231	ECDDH430A2	0.22	C231	ECDDH430A2	0.22
R23	ERD25P050	5.0K	R232	ERD25P100	10K	C232	ECDDH430A2	0.22	C232	ECDDH430A2	0.22
R24	ERD25P050	5.0K	R233	ERD25P100	10K	C233	ECDDH430A2	0.22	C233	ECDDH430A2	0.22
R25	ERD25P050	5.0K	R234	ERD25P100	10K	C234	ECDDH430A2	0.22	C234	ECDDH430A2	0.22
R26	ERD25P050	5.0K	R235	ERD25P100	10K	C235	ECDDH430A2	0.22	C235	ECDDH430A2	0.22
R27	ERD25P050	5.0K	R236	ERD25P100	10K	C236	ECDDH430A2	0.22	C236	ECDDH430A2	0.22
R28	ERD25P050	5.0K	R237	ERD25P100	10K	C237	ECDDH430A2	0.22	C237	ECDDH430A2	0.22
R29	ERD25P050	5.0K	R238	ERD25P100	10K	C238	ECDDH430A2	0.22	C238	ECDDH430A2	0.22
R30	ERD25P050	5.0K	R239	ERD25P100	10K	C239	ECDDH430A2	0.22	C239	ECDDH430A2	0.22
R31	ERD25P050	5.0K	R240	ERD25P100	10K	C240	ECDDH430A2	0.22	C240	ECDDH430A2	0.22
R32	ERD25P050	5.0K	R241	ERD25P100	10K	C241	ECDDH430A2	0.22	C241	ECDDH430A2	0.22
R33	ERD25P050	5.0K	R242	ERD25P100	10K	C242	ECDDH430A2	0.22	C242	ECDDH430A2	0.22
R34	ERD25P050	5.0K	R243	ERD25P100	10K	C243	ECDDH430A2	0.22	C243	ECDDH430A2	0.22
R35	ERD25P050	5.0K	R244	ERD25P100	10K	C244	ECDDH430A2	0.22	C244	ECDDH430A2	0.22
R36	ERD25P050	5.0K	R245	ERD25P100	10K	C245	ECDDH430A2	0.22	C245	ECDDH430A2	0.22
R37	ERD25P050	5.0K	R246	ERD25P100	10K	C246	ECDDH430A2	0.22	C246	ECDDH430A2	0.22
R38	ERD25P050	5.0K	R247	ERD25P100	10K	C247	ECDDH430A2	0.22	C247	ECDDH430A2	0.22
R39	ERD25P050	5.0K	R248	ERD25P100	10K	C248	ECDDH430A2	0.22	C248	ECDDH430A2	0.22
R40	ERD25P050	5.0K	R249	ERD25P100	10K	C249	ECDDH430A2	0.22	C249	ECDDH430A2	0.22
R41	ERD25P050	5.0K	R250	ERD25P100	10K	C250	ECDDH430A2	0.22	C250	ECDDH430A2	0.22
R42	ERD25P050	5.0K	R251	ERD25P100	10K	C251	ECDDH430A2	0.22	C251	ECDDH430A2	0.22
R43	ERD25P050	5.0K	R252	ERD25P100	10K	C252	ECDDH430A2	0.22	C252	ECDDH430A2	0.22
R44	ERD25P050	5.0K	R253	ERD25P100	10K	C253	ECDDH430A2	0.22	C253	ECDDH430A2	0.22
R45	ERD25P050	5.0K	R254	ERD25P100	10K	C254	ECDDH430A2	0.22	C254	ECDDH430A2	0.22
R46	ERD25P050	5.0K	R255	ERD25P100	10K	C255	ECDDH430A2	0.22	C255	ECDDH430A2	0.22
R47	ERD25P050	5.0K	R256	ERD25P100	10K	C256	ECDDH430A2	0.22	C256	ECDDH430A2	0.22
R48	ERD25P050	5.0K	R257	ERD25P100	10K	C257	ECDDH430A2	0.22	C257	ECDDH430A2	0.22
R49	ERD25P050	5.0K	R258	ERD25P100	10K	C258	ECDDH430A2	0.22	C258	ECDDH430A2	0.22
R50	ERD25P050	5.0K	R259	ERD25P100	10K	C259	ECDDH430A2	0.22	C259	ECDDH430A2	0.22
R51	ERD25P050	5.0K	R260	ERD25P100	10K	C260	ECDDH430A2	0.22	C260	ECDDH430A2	0.22
R52	ERD25P050	5.0K	R261	ERD25P100	10K	C261	ECDDH430A2	0.22	C261	ECDDH430A2	0.22
R53	ERD25P050	5.0K	R262	ERD25P100	10K	C262	ECDDH430A2	0.22	C262	ECDDH430A2	0.22
R54	ERD25P050	5.0K	R263	ERD25P100	10K	C263	ECDDH430A2	0.22	C263	ECDDH430A2	0.22
R55	ERD25P050	5.0K	R264	ERD25P100	10K	C264	ECDDH430A2	0.22	C264	ECDDH430A2	0.22
R56	ERD25P050	5.0K	R265	ERD25P100	10K	C265	ECDDH430A2	0.22	C265	ECDDH430A2	0.22
R57	ERD25P050	5.0K	R266	ERD25P100	10K	C266	ECDDH430A2	0.22	C266	ECDDH430A2	0.22
R58	ERD25P050	5.0K	R267	ERD25P100	10K	C267	ECDDH430A2	0.22	C267	ECDDH430A2	0.22
R59	ERD25P050	5.0K	R268	ERD25P100	10K	C268	ECDDH430A2	0.22	C268	ECDDH430A2	0.22
R60	ERD25P050	5.0K	R269	ERD25P100	10K	C269	ECDDH430A2	0.22	C269	ECDDH430A2	0.22
R61	ERD25P050	5.0K	R270	ERD25P100	10K	C270	ECDDH430A2	0.22	C270	ECDDH430A2	0.22
R62	ERD25P050	5.0K	R271	ERD25P100	10K	C271	ECDDH430A2	0.22	C271	ECDDH430A2	0.22
R63	ERD25P050	5.0K	R272	ERD25P100	10K	C272	ECDDH430A2	0.22	C272	ECDDH430A2	0.22
R64	ERD25P050	5.0K	R273	ERD25P100	10K	C273	ECDDH430A2	0.22	C273	ECDDH430A2	0.22
R65	ERD25P050	5.0K	R274	ERD25P100	10K	C274	ECDDH430A2	0.22	C274	ECDDH430A2	0.22
R66	ERD25P050	5.0K	R275	ERD25P100	10K	C275	ECDDH430A2	0.22	C275	ECDDH430A2	0.22
R67	ERD25P050	5.0K	R276	ERD25P100	10K	C276	ECDDH430A2	0.22	C276	ECDDH430A2	0.22
R68	ERD25P050	5.0K	R277	ERD25P100	10K	C277	ECDDH430A2	0.22	C277	ECDDH430A2	0.22
R69	ERD25P050	5.0K	R278	ERD25P100	10K	C278	ECDDH430A2	0.22	C278	ECDDH430A2	0.22
R70	ERD25P050	5.0K	R279	ERD25P100	10K	C279	ECDDH430A2	0.22	C279	ECDDH430A2	0.22
R71	ERD25P050	5.0K	R280	ERD25P100	10K	C280	ECDDH430A2	0.22	C280	ECDDH430A2	0.22
R72	ERD25P050	5.0K	R281	ERD25P100	10K	C281	ECDDH430A2	0.22	C281	ECDDH430A2	0.22
R73	ERD25P050	5.0K	R282	ERD25P100	10K	C282	ECDDH430A2	0.22	C282	ECDDH430A2	0.22
R74	ERD25P050	5.0K	R283	ERD25P100	10K	C283	ECDDH430A2	0.22	C283	ECDDH430A2	0.22
R75	ERD25P050	5.0K	R284	ERD25P100	10K	C284	ECDDH430A2	0.22	C284	ECDDH430A2	0.22
R76	ERD25P050	5.0K	R285	ERD25P100	10K	C285	ECDDH430A2	0.22	C285	ECDDH430A2	0.22
R77	ERD25P050	5.0K	R286	ERD25P100	10K	C286	ECDDH430A2	0.22	C286	ECDDH430A2	0.22
R78	ERD25P050	5.0K	R287	ERD25P100	10K	C287	ECDDH430A2	0.22	C287	ECDDH430A2	0.22
R79	ERD25P050	5.0K	R288	ERD25P100	10K	C288	ECDDH430A2	0.22	C288	ECDDH430A2	0.22
R80	ERD25P050	5.0K	R289	ERD25P100	10K	C289	ECDDH430A2	0.22	C289	ECDDH430A2	0.22
R81	ERD25P050	5.0K	R290	ERD25P100	10K	C290	ECDDH430A2	0.22	C290	ECDDH430A2	0.22
R82	ERD25P050	5.0K	R291	ERD25P100	10K	C291	ECDDH430A2	0.22	C291	ECDDH430A2	0.22
R83	ERD25P050	5.0K	R292	ERD25P100	10K	C292	ECDDH430A2	0.22	C292	ECDDH430A2	0.22
R84	ERD25P050	5.0K	R293	ERD25P100	10K	C293	ECDDH430A2	0.22	C293	ECDDH430A2	0.22
R85	ERD25P050	5.0K	R294	ERD25P100	10K	C294	ECDDH430A2	0.22	C294	ECDDH430A2	0.22
R86	ERD25P050	5.0K	R295	ERD25P100	10K	C295	ECDDH430A2	0.22	C295	ECDDH430A2	0.22
R87	ERD25P050	5.0K	R296	ERD25P100	10K	C296	ECDDH430A2	0.22	C296	ECDDH430A2	0.22
R88	ERD25P050	5.0K	R297	ERD25P100	10K	C297	ECDDH430A2	0.22	C297	ECDDH430A2	0.22
R89	ERD25P050	5.0K	R298	ERD25P100	10K	C298	ECDDH430A2	0.22	C298	ECDDH430A2	0.22
R90	ERD25P050	5.0K	R299	ERD25P100	10K	C299	ECDDH430A2	0.22	C299	ECDDH430A2	0.22
R91	ERD25P050	5.0K	R300	ERD25P100	10K	C300	ECDDH430A2	0.22	C300	ECDDH430A2	0.22
R92	ERD25P050	5.0K	R301	ERD25P100	10K	C301	ECDDH430A2	0.22	C301	ECDDH430A2	0.22
R93	ERD25P050	5.0K	R302	ERD25P100	10K	C302	ECDDH430A2	0.22	C302	ECDDH430A2	0.22
R94	ERD25P050	5.0K	R303	ERD25P100	10K	C303	ECDDH430A2	0.22	C303	ECDDH430A2	0.22
R95	ERD25P050	5.0K	R304	ERD25P100	10K	C304	ECDDH430A2	0.22	C304	ECDDH430A2	0.22
R96	ERD25P050	5.0K	R305	ERD25P100	10K	C305	ECDDH430A2	0.22	C305	ECDDH430A2	0.22
R97	ERD25P050	5.0K	R306	ERD25P100	10K	C306	ECDDH430A2	0.22	C306	ECDDH430A2	0.22
R98	ERD25P050	5.0K	R307	ERD25P100	10K	C307	ECDDH430A2	0.22	C307	ECDDH430A2	0.22
R99	ERD25P050	5.0K	R308	ERD25P100	10K	C308	ECDDH430A2	0.22	C308	ECDDH430A2	0.22
R100	ERD25P050	5.0K	R309	ERD25P100	10K	C309	ECDDH430A2	0.22	C309	ECDDH430A2	0.22
R101	ERD25P050	5.0K	R310	ERD25P100	10K						

REPLACEMENT PARTS LIST

- Notes:**
- Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
 - Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
 - The "S" mark is service standard parts and may differ from production parts.
 - The parenthesized numbers in the column of description stand for the quantity per set.
 - $\otimes$ -marked parts are used only for SL-1210MK2 (black type). And $\circ$ -marked parts are used for SL-1200MK2 (silver type).
 - Parts other than $\otimes$ - and $\circ$ -marked are used for both SL-1210MK2 and SL-1200MK2.

Area

- [M] is available in the U.S.A.
- [MC] is available in Canada.
- [E] is available in Switzerland and Scandinavia.
- [EK] is available in United Kingdom.
- [XL] is available in Australia.
- [EG] is available in F.R. Germany.
- [EB] is available in Belgium.
- [EH] is available in Holland.
- [EP] is available in France.
- [EI] is available in Italy.
- [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- [PA] is available in far East FX.
- [PB] is available in European Military.
- [PC] is available in European Audio Club.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
INTEGRATED CIRCUITS			CRYSTAL			LAMP		
IC19	AN6673	Tunable Drive	X201	SVCM34193	4.193MHz	P1	SP2102-20 X	100W Halogen
IC201	AN6682	Tunable Control	VARIABLE RESISTORS			TRANSFORMER		
IC302	MN0718	Phase Control	VR201	SVT32MA00804	Break Adjustment	R1(MC)	Δ SL7MCT13A	Power Source
TRANSISTORS			VR301	EVH113A00803	Push Control	R1(MC)	Δ SL7MCT14C	Power Source
Q1	2SD1285	Regulator	VR302	SVT32MA00804	Push Control	R1(MC)	Δ SL7MCT15C	Power Source
Q2,3	2SD607	Regulator	VR303	SVT32MA00804	Push Control	R1(MC)	Δ KB1F12N14	125V 1.5A
Q201	2SD1845-A	Regulator	SWITCHES			R1(Except for [M,MC])	Δ KB2C00271A	250V 7250mA
Q302	2SD607	LED Driver	S201,202	SVG212N11	Speed Selector	R1(Except for [M,MC])	Δ KB2C10T90	250V 71A
Q303	2SD1338-T	PS Amp	S203	SVG212N11	Start/Stop			
DIODES			S401	SVG212N11	Speed Indicator			
D1	SVG212N11	Rectifier	S402	SVG212N11	Power			
D2	SVG212N11	1.5V Zener	S403	SVG212N11	Voltage Selector			
D201,202	SVG212N11	Speed Indicator						
D203~206	SVG212N11	Speed Indicator						
D207	SVG212N11	Speed Indicator						
D208	SVG212N11	Speed Indicator						
D209	SVG212N11	Speed Indicator						
D210	SVG212N11	Speed Indicator						

Notes:

shelheid sindis

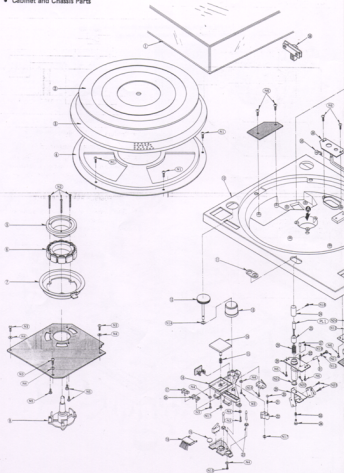
SL-1200MK2/1210MK2



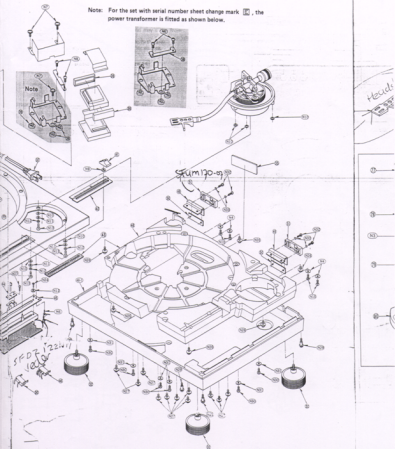
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CHASSIS AND CHASSIS PARTS			TONEARM PARTS			ACCESSORIES		
1	SPAC122-01A	Coil Cover	62	SPG0122-02E	Insulator	N31	SWG32F	Washer
2	SPG122-01	Turntable Mat	63	SPK0122-02E	Button, Screw	N32	XSN31+14BV5	Screw
3	SPG122-01	Turntable Motor Assy	64	SPK0122-01	Name Plate	N33	XN32F2	Washer
4	SPG122-05	Cover, Cabinet	65	SPK122015	Name Plate	N34	SPGASB5-1	Screw
5	SPMG025-01	Cover, Drive Coil	66	SPK122016	Name Plate	N35	XSN31+45	Washer
6	SPMG025-01A	Drive Coil Assy	67	SPK122017	Name Plate	N36	XUC3PT	Clamp
7	SPMG122-01E	PG Coil Assy	68	SPK122018	Name Plate	N37	SPG12201	Screw
8	SPMG122-01A	Shift Assy, Turntable	69	SPK122019	Name Plate	N38	XTN31+25B	Screw
9	SPMG122-01A	Shift Assy, Turntable	70	SPK122020	Name Plate	N39	SPG12201	Washer
10	SPAC122-01	Cabinet (Silver)	71	SPK122021	Name Plate	N40	SPG122+6BV5	Screw
11	SPAC122001	Cabinet (Black)	72	SPK122022	Name Plate	N41	XWG32F2	Washer
12	SPG122-04	Ornament, Stylus	73	SPK122023	Name Plate	N42	XSN31+12BV5	Screw
13	SPG122-01	Hummer	74	SPK122024	Name Plate	N43	XWG32F2	Washer
14	SPG122-01E	Cass, Power Transformer	75	SPK122025	Name Plate	N44	SPG12201-42	Washer
15	SPG122-01	Cass, Power Transformer	76	SPK122026	Name Plate	N45	SPG12201-52	Washer
16	SPG122-01	Cass, Power Transformer	77	SPK122027	Name Plate	N46	XTN31+52	Screw
17	SPG122-01	Cass, Power Transformer	78	SPK122028	Name Plate			
18	SPG122-01	Cass, Power Transformer	79	SPK122029	Name Plate			
19	SPG122-01	Cass, Power Transformer	80	SPK122030	Name Plate			
20	SPG122-01	Cass, Power Transformer	81	SPK122031	Name Plate			
21	SPG122-01	Cass, Power Transformer	82	SPK122032	Name Plate			
22	SPG122-01	Cass, Power Transformer	83	SPK122033	Name Plate			
23	SPG122-01	Cass, Power Transformer	84	SPK122034	Name Plate			
24	SPG122-01	Cass, Power Transformer	85	SPK122035	Name Plate			
25	SPG122-01	Cass, Power Transformer	86	SPK122036	Name Plate			
26	SPG122-01	Cass, Power Transformer	87	SPK122037	Name Plate			
27	SPG122-01	Cass, Power Transformer	88	SPK122038	Name Plate			
28	SPG122-01	Cass, Power Transformer	89	SPK122039	Name Plate			
29	SPG122-01	Cass, Power Transformer	90	SPK122040	Name Plate			
30	SPG122-01	Cass, Power Transformer	91	SPK122041	Name Plate			
31	SPG122-01	Cass, Power Transformer	92	SPK122042	Name Plate			
32	SPG122-01	Cass, Power Transformer	93	SPK122043	Name Plate			
33	SPG122-01	Cass, Power Transformer	94	SPK122044	Name Plate			
34	SPG122-01	Cass, Power Transformer	95	SPK122045	Name Plate			
35	SPG122-01	Cass, Power Transformer	96	SPK122046	Name Plate			
36	SPG122-01	Cass, Power Transformer	97	SPK122047	Name Plate			
37	SPG122-01	Cass, Power Transformer	98	SPK122048	Name Plate			
38	SPG122-01	Cass, Power Transformer	99	SPK122049	Name Plate			
39	SPG122-01	Cass, Power Transformer	100	SPK122050	Name Plate			
40	SPG122-01	Cass, Power Transformer	101	SPK122051	Name Plate			
41	SPG122-01	Cass, Power Transformer	102	SPK122052	Name Plate			
42	SPG122-01	Cass, Power Transformer	103	SPK122053	Name Plate			
43	SPG122-01	Cass, Power Transformer	104	SPK122054	Name Plate			
44	SPG122-01	Cass, Power Transformer	105	SPK122055	Name Plate			
45	SPG122-01	Cass, Power Transformer	106	SPK122056	Name Plate			
46	SPG122-01	Cass, Power Transformer	107	SPK122057	Name Plate			
47	SPG122-01	Cass, Power Transformer	108	SPK122058	Name Plate			
48	SPG122-01	Cass, Power Transformer	109	SPK122059	Name Plate			
49	SPG122-01	Cass, Power Transformer	110	SPK122060	Name Plate			
50	SPG122-01	Cass, Power Transformer	111	SPK122061	Name Plate			
51	SPG122-01	Cass, Power Transformer	112	SPK122062	Name Plate			
52	SPG122-01	Cass, Power Transformer	113	SPK122063	Name Plate			
53	SPG122-01	Cass, Power Transformer	114	SPK122064	Name Plate			
54	SPG122-01	Cass, Power Transformer	115	SPK122065	Name Plate			
55	SPG122-01	Cass, Power Transformer	116	SPK122066	Name Plate			
56	SPG122-01	Cass, Power Transformer	117	SPK122067	Name Plate			
57	SPG122-01	Cass, Power Transformer	118	SPK122068	Name Plate			
58	SPG122-01	Cass, Power Transformer	119	SPK122069	Name Plate			
59	SPG122-01	Cass, Power Transformer	120	SPK122070	Name Plate			
60	SPG122-01	Cass, Power Transformer	121	SPK122071	Name Plate			
61	SPG122-01	Cass, Power Transformer	122	SPK122072	Name Plate			
62	SPG122-01	Cass, Power Transformer	123	SPK122073	Name Plate			
63	SPG122-01	Cass, Power Transformer	124	SPK122074	Name Plate			
64	SPG122-01	Cass, Power Transformer	125	SPK122075	Name Plate			
65	SPG122-01	Cass, Power Transformer	126	SPK122076	Name Plate			
66	SPG122-01	Cass, Power Transformer	127	SPK122077	Name Plate			
67	SPG122-01	Cass, Power Transformer	128	SPK122078	Name Plate			
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69	SPG122-01	Cass, Power Transformer	130	SPK122080	Name Plate			
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71	SPG122-01	Cass, Power Transformer	132	SPK122082	Name Plate			
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76	SPG122-01	Cass, Power Transformer	137	SPK122087	Name Plate			
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81	SPG122-01	Cass, Power Transformer	142	SPK122092	Name Plate			
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88	SPG122-01	Cass, Power Transformer	149	SPK122099	Name Plate			
89	SPG122-01	Cass, Power Transformer	150	SPK122100	Name Plate			
90	SPG122-01	Cass, Power Transformer	151	SPK122101	Name Plate			
91	SPG122-01	Cass, Power Transformer	152	SPK122102	Name Plate			
92	SPG122-01	Cass, Power Transformer	153	SPK122103	Name Plate			
93	SPG122-01	Cass, Power Transformer	154	SPK122104	Name Plate			
94	SPG122-01	Cass, Power Transformer	155	SPK122105	Name Plate			
95	SPG122-01	Cass, Power Transformer	156	SPK122106	Name Plate			
96	SPG122-01	Cass, Power Transformer	157	SPK122107	Name Plate			
97	SPG122-01	Cass, Power Transformer	158	SPK122108	Name Plate			
98	SPG122-01	Cass, Power Transformer	159	SPK122109	Name Plate			
99	SPG122-01	Cass, Power Transformer	160	SPK122110	Name Plate			
100	SPG122-01	Cass, Power Transformer	161	SPK122111	Name Plate			
101	SPG122-01	Cass, Power Transformer	162	SPK122112	Name Plate			
102	SPG122-01	Cass, Power Transformer	163	SPK122113	Name Plate			
103	SPG122-01	Cass, Power Transformer	164	SPK122114	Name Plate			
104	SPG122-01	Cass, Power Transformer	165	SPK122115	Name Plate			
105	SPG122-01	Cass, Power Transformer	166	SPK122116	Name Plate			
106	SPG122-01	Cass, Power Transformer	167	SPK122117	Name Plate			
107	SPG122-01	Cass, Power Transformer	168	SPK122118	Name Plate			
108	SPG122-01	Cass, Power Transformer	169	SPK122119	Name Plate			
109	SPG122-01	Cass, Power Transformer	170	SPK122120	Name Plate			
110	SPG122-01	Cass, Power Transformer	171	SPK122121	Name Plate			
111	SPG122-01	Cass, Power Transformer	172	SPK122122	Name Plate			
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113	SPG122-01	Cass, Power Transformer	174	SPK122124	Name Plate			
114	SPG122-01	Cass, Power Transformer	175	SPK122125	Name Plate			
115	SPG122-01	Cass, Power Transformer	176	SPK122126	Name Plate			
116	SPG122-01	Cass, Power Transformer	177	SPK122127	Name Plate			
117	SPG122-01	Cass, Power Transformer	178	SPK122128	Name Plate			
118	SPG122-01	Cass, Power Transformer	179	SPK122129	Name Plate			
119	SPG122-01	Cass, Power Transformer	180	SPK122130	Name Plate			
120	SPG122-01	Cass, Power Transformer	181	SPK122131	Name Plate			
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122	SPG122-01	Cass, Power Transformer	183	SPK122133	Name Plate			
123	SPG122-01	Cass, Power Transformer	184	SPK122134	Name Plate			
124	SPG122-01	Cass, Power Transformer	185	SPK122135	Name Plate			
125	SPG122-01	Cass, Power Transformer	186	SPK122136	Name Plate			
126	SPG122-01	Cass, Power Transformer	187	SPK122137	Name Plate			
127	SPG122-01	Cass, Power Transformer	188	SPK122138	Name Plate			
128	SPG122-01	Cass, Power Transformer	189	SPK122139	Name Plate			
129	SPG122-01	Cass, Power Transformer	190	SPK122140	Name Plate			
130	SPG122-01	Cass, Power Transformer	191	SPK122141	Name Plate			
131	SPG122-01	Cass, Power Transformer	192	SPK122142	Name Plate			
132	SPG122-01	Cass, Power Transformer	193	SPK122143	Name Plate			
133	SPG122-01	Cass, Power Transformer	194	SPK122144	Name Plate			
134	SPG122-01	Cass, Power Transformer	195	SPK122145	Name Plate			
135	SPG122-01	Cass, Power Transformer	196	SPK122146	Name Plate			
136	SPG122-01	Cass, Power Transformer	197	SPK122147	Name Plate			
137	SPG122-01	Cass, Power Transformer	198	SPK122148	Name Plate			
138	SPG122-01	Cass, Power Transformer	199	SPK122149	Name Plate			
139	SPG122-01	Cass, Power Transformer	200	SPK122150	Name Plate			
140	SPG122-01	Cass, Power Transformer	201	SPK122151	Name Plate			
141	SPG122-01	Cass, Power Transformer	202	SPK122152	Name Plate			
142	SPG122-01	Cass, Power Transformer	203	SPK122153	Name Plate			
143	SPG122-01	Cass, Power Transformer	204	SPK122154	Name Plate			
144	SPG122-01	Cass, Power Transformer	205	SPK122155	Name Plate			
145	SPG122-01	Cass, Power Transformer	206	SPK122156	Name Plate			
146	SPG122-01	Cass, Power Transformer	207	SPK122157	Name Plate			
147	SPG122-01	Cass, Power Transformer	208	SPK122158	Name Plate			
148	SPG122-01	Cass, Power Transformer	209	SPK122159	Name Plate			
149	SPG122-01	Cass, Power Transformer	210	SPK122160	Name Plate			
150	SPG122-01	Cass, Power Transformer	211	SPK122161	Name Plate			
151	SPG122-01	Cass, Power Transformer	212	SPK122162	Name Plate			
152	SPG122-01	Cass, Power Transformer	213	SPK122163	Name Plate			
153	SPG122-01	Cass, Power Transformer	214	SPK122164	Name Plate			
154	SPG122-01	Cass, Power Transformer	215	SPK122165	Name Plate			

■ EXPLODED VIEWS

- Cabinet and Chassis Parts

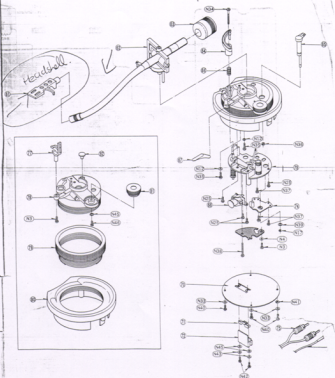


Note: For the set with serial number sheet change mark , the power transformer is fitted as shown below.



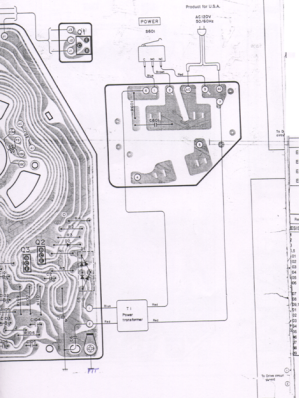
■ E

• Tonarm Parts



SL-1200MK2/1210MK2

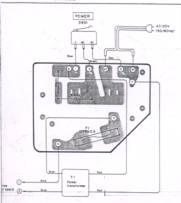
NATION



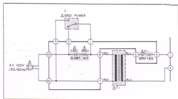
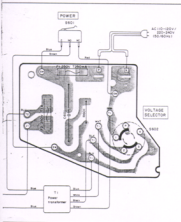
SL-1200MK2/1210MK2

• Power source circuit

* Product for Canada



* Product for [E], [EK], [XL], [EG], [EB], [EH], [EF], [EI], [XA], [PA], [PE] and [PC] areas



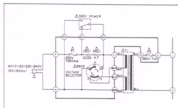
• Product for MC only

FUSE REPLACEMENT

⚡ Symbol located near the fuse indicates fast operating type. For continued protection against fire hazard, replace with same type fuse. Refer to the symbol for fuse rating.

FUSIBLE REMPLACEMENT

⚡ Le symbole qui se trouve près du fusible signifie un fusible à action rapide. Pour une protection conçue contre les risques d'incendie, n'utiliser que des fusibles du même type. Se reporter au symbole pour la valeur des fusibles.



■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

1. S201, 202 : Speed selector switch.
2. S203 : Start/stop switch.
3. S301 : Pitch control reset switch in "off" position.
4. S401 : Stylus illuminator switch in "off" position.
5. S601 : Power switch in "on" position.
6. S602 : Voltage selector in "220 ~ 240" position.
7. The voltage value, and waveforms are the reference voltage values of this unit measured by DC electronic voltmeter (high-impedance) and oscilloscope on the basis of chassis. Therefore, the voltage value and waveform may include some error due to the internal impedance of the tester or the measuring set.
 - *  is the voltage when turntable is in stop.
 - *  is the voltage when turntable is in rotation. (at 33 rpm)
8.  +B voltage lines.
9. Important safety notice.
Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
10. The part No. of diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. with  mark the production part No. are different from the replacement part No. Therefore, when placing an order for replacement part, please use the part No. in the replacement parts list.

IMPORTANT SAFETY NOTICE

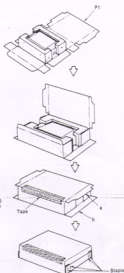
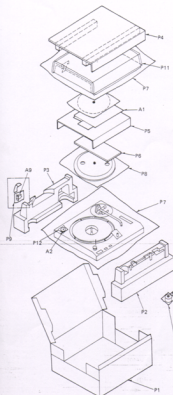
The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

• Terminal guide of transistors, diodes and IC's

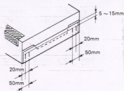
AN6675	AN6680	AN6682	SVD51RBA20P
			
MN4011B 14 Pin		2SD1285	MA150
			
2SC1328	2SC1846	2SD637 2SD641 2SD636 2SD643	MA1051
			
SVDR39025-9 SVD5LH54VT3	SVD5L-8PG2		
			

■ PACKING

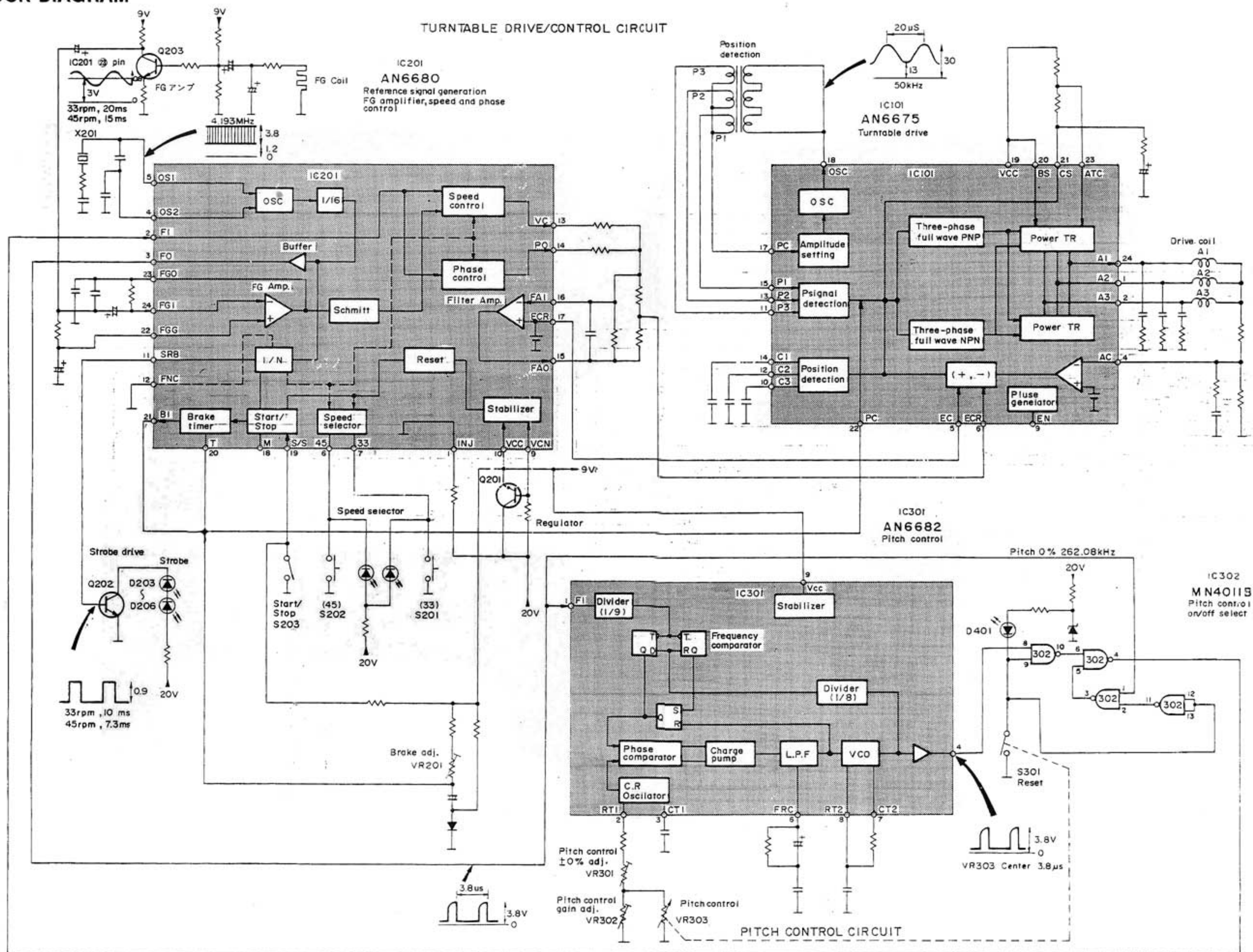
1. Place the unit (with cushions attached) as illustrated.
2. Fold the flaps according to the line marks.
3. Seal the top with adhesive tape.
* Use gum tape or adhesive cloth tape of 50mm wide at least.
4. For the edges, first fold the flap "a" and then flap "b", and staple. Remember to staple only flap "b". (Use 15 or 16mm staple)



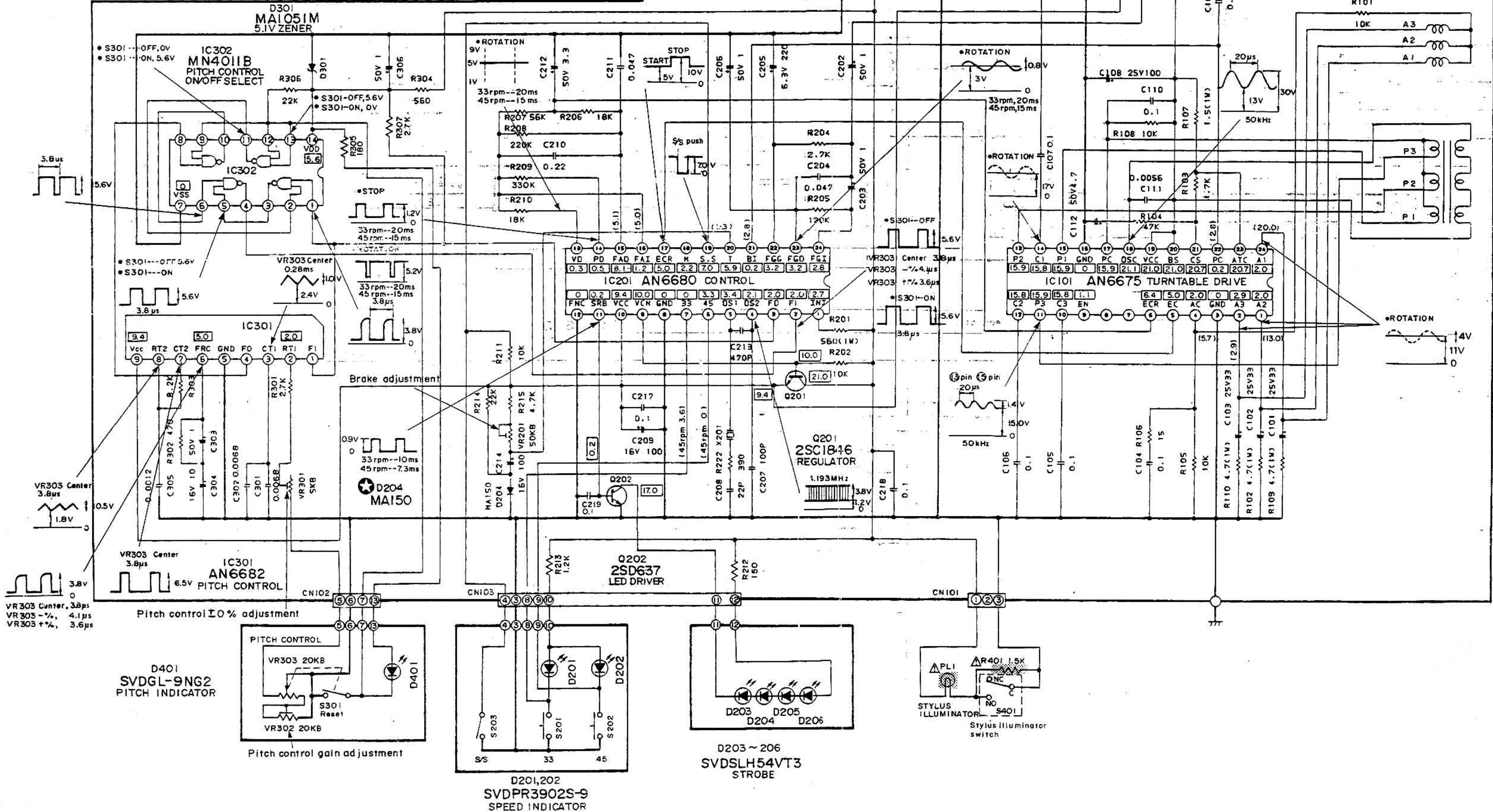
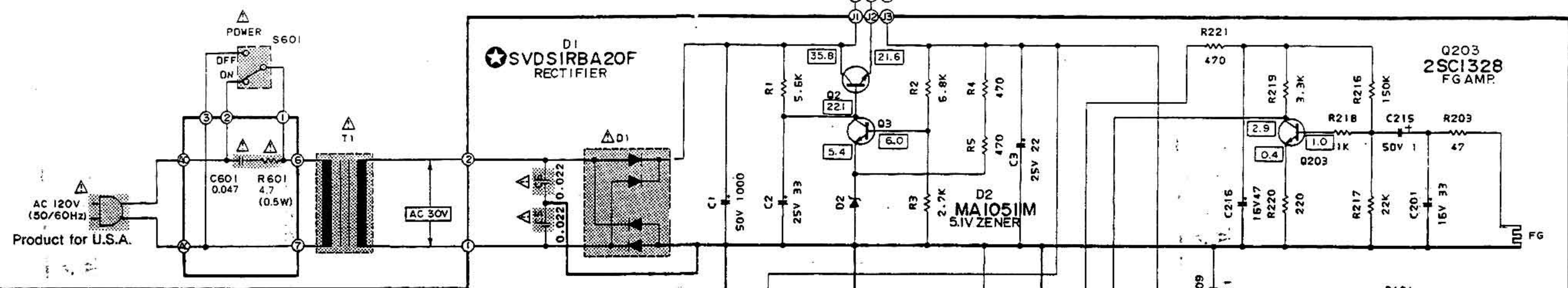
* Stapling positions are shown below.



■ BLOCK DIAGRAM



POWER SOURCE CIRCUIT



Service Manual

Turntable System

SL-1200MK2

[M], [MC],

[E], [EK], [XL], [EG], [EB], [EH],

[EF], [Ei], [XA], [PA], [PE], [PC]

SL-1210MK2

[E], [EG], [EH]

Supplement



*SL-1200MK2 is the model for silver type.

*SL-1210MK2 is the model for black type of SL-1200MK2.

Areas

- * [M] is available in the U.S.A.
- * [MC] is available in Canada.
- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [XL] is available in Australia.
- * [EG] is available in F.R. Germany.
- * [EB] is available in Belgium.
- * [EH] is available in Holland.
- * [EF] is available in France.
- * [Ei] is available in Italy.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [PA] is available in far East PX.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.

Please use this manual together with the service manual for Model No. SL-1200MK2/1210MK2.

English

Inclusive SM &
Changes

Specifications

Specifications are subject to change without notice for further improvement.
Weight and dimensions shown are approximate.

General

Power supply:	120V, AC 60 Hz (For [M], [MC] areas) ~110-120/220-240V, 50 or 60 Hz (For other areas)
Power consumption:	14 W (For [M], [MC] areas) 13.5 W (For other areas)
Dimensions: (W x H x D)	45.3 x 16.2 x 36 cm (17-27/32" x 6-19/64" x 14-11/64")
Weight:	12.5 kg (27.6 lb)

Turntable section

Type:	Quartz direct drive Manual turntable
Drive method:	Direct drive
Motor:	Brushless DC motor

Turntable platter:	Aluminum diecast Diameter 33.2 cm (13-5/64") Weight 2 kg (4.4 lb)
Turntable speeds:	33-1/3 rpm and 45 rpm
Starting torque:	1.5 kg · cm (1.3 lb · in)
Build-up characteristics:	0.7 s. from standstill to 33-1/3 rpm
Braking system:	Electronic brake
Wow and flutter:	0.01% WRMS* 0.025% WRMS (JIS C5521) ± 0.035% peak (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.

Rumble:	-56 dB (IEC 98A Unweighted) -78 dB (IEC 98A Weighted)
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Service Company
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P.O. Box 288, Central Osaka Japan

SL-1200MK2/1210MK2

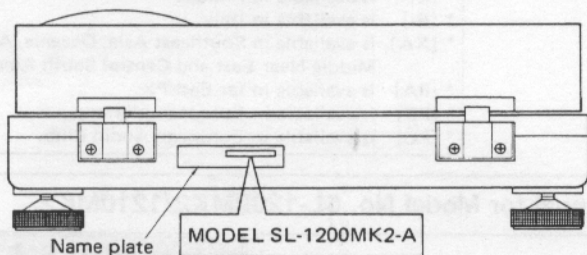
■ Tonearm section

Type:	Universal
Effective length:	230 mm (9-1/16")
Arm height adjustment range:	0 – 6 mm
Overhang:	15 mm (19/32")
Effective mass:	12 g (without cartridge)
Offset angle:	22°
Friction:	Less than 7 mg (lateral, vertical)
Tracking error angle:	Within 2°32' (at the outer groove of 30 cm (12") record Within 0°32' (at the inner groove of 30 cm (12") record

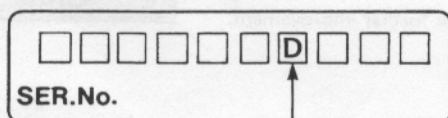
Stylus pressure adjustment range:	0 – 2.5 g
Applicable cartridge weight range:	6 – 10 g 13.5 – 17.5 g (including headshell)
(with auxiliary weight):	9.5 – 13 g 17 – 20.5 g (including headshell)
(with shell weight):	3.5 – 6.5 g 11 – 14 g (including headshell)
Headshell weight:	7.5 g

Notes

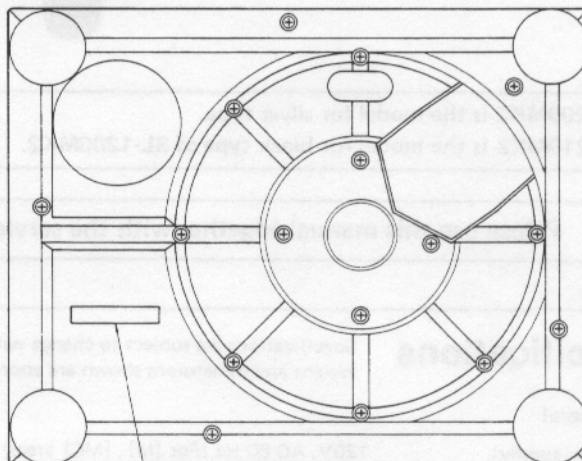
- ★ To improve the performance of SL-1200MK2/1210MK2, the bottom structure and circuit are changed in the course of production.
- ★ After the change, SL1200MK2-A/1210MK2-A is indicated in the name plate as the model of the set. It is discriminated from before-change set by -A. Also, check that the present change is of the sets after the change mark ☒ shown in the serial No. sheet attached to the bottom and carton box.
- ★ This supplement service manual contains the bottom plate disassembly procedure, change part No., circuit diagram, P.C.B. and block diagrams. The other contents are the same as for the service manual of SL-1200MK2/1210MK2 already issued.
- ★ Sets with cartridge (EPC-207C) are included in those for same areas.
- ★ Since the power transformer fitting method is different for sets with serial number sheet change mark ☒ , refer to the development plan on page 8.



Serial No. sheet



Change mark



Serial No. sheet

Deutsch

TECHNISCHE DATEN

Änderungen der technischen Daten vorbehalten.
Die angegebenen Gewichts- und Abmessungsdaten sind ungefähre Werte.

■ Allgemeine Daten

Stromversorgung:	~ 110-120/220-240 V, 50/60 Hz Wechselstrom
Leistungsaufnahme:	13,5 W
Abmessungen: (B x H x T):	45,3 x 16,2 x 36 cm
Gewicht:	12,5 kg

■ Plattenspieler

Type:	Manueller Quarz-Direktantrieb- Plattenspieler
Antrieb:	Direktantrieb
Motor:	Kollektorloser Gleichstrommotor
Plattenteller:	Aluminium-Spritzguß Durchmesser 33,2 cm Gewicht 2 kg

Plattenteller-Drehzahlen:	33-1/3 und 45 U/min
Anlautdrehmoment:	1,5 kg · cm
Drehzahl-Hochlaufzeit:	0,7 s. vom Stillstand auf 33-1/3 U/min
Bremssystem:	Elektronische Bremse
Gleichlaufschwankungen:	0,01% WRMS* 0,025% WRMS (JIS C5521) ± 0,035% Spitze (IEC 98A bewertet)

* Diese Nennleistung bezieht sich auf das Laufwerk-Bauteil allein, ausschließlich Einflüsse von Schallplatte, Tonabnehmer oder Tonarm, aber einschließlich Plattenteller.
Gemessen anhand von Signalen vom eingebauten Frequenzgenerator des Motorbauteils.

Rumpel-Geräusch- spannungsabstand:	-56 dB (IEC 98A unbewertet) -78 dB (IEC 98A bewertet)
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■ Tonarm

Typ:	Universal-Tonarm
Effektive Länge:	230 mm
Tonarmhöhe:	
Einstellbereich:	0 – 6 mm
Überhang:	15 mm
Effektive Masse:	12 g (ohne Tonabnehmer)
Spurfehlwinkel:	2°32' bei der Einlaufrille einer 30 cm-Platte 0°32' bei der Auslaufrille einer 30 cm-Platte
Kröpfungswinkel:	22°
Lagerreibung:	Weniger als 7 mg (horizontal, vertikal)

Auflagekraft:	
Einstellbereich:	0 – 2,5 g
Zulässiger Tonabnehmer:	
Gewichtsbereich:	6 – 10 g 13,5 – 17 g (einschließlich Tonarmkopf)
(mit Zusatz- Gegengewicht):	9,5 – 13 g 17 – 20,5 g (einschließlich Tonarmkopf)
Gewichtsbereich:	3,5 – 6,5 g
(mit Zusatzgewicht)	11 – 14 g (einschließlich Tonarmkopf)
Tonarmkopf-Gewicht:	7,5 g

Français

CARACTERISTIQUES

Les spécifications sont susceptibles d'être modifiées sans préavis.
Le poids et les dimensions donnés sont approximatifs.

■ Généralités

Alimentation:	Alternatif 110-120/220-240 V, 50 ou 60 Hz
Consommation:	13,5 W
Dimensions: (L x H x P)	45,3 x 16,2 x 36 cm
Poids:	12,5 kg

■ Platine de lecture

Type:	Entaînement direct à quartz Platine manuelle
Système d'entraînement:	Entraînement direct
Moteur:	Moteur C.C. sans balai
Plateau de lecture:	Aluminium moulé sous pression Diamètre 33,2 cm Poids 2 kg
Vitesses de rotation:	33-1/3 et 45t/p.m.
Couple de démarrage:	1,5 kg · cm
Caractéristiques d'augmentation:	0,7 s. (rotation de 90°) à 33-1/3 t/p.m.
Système de freinage:	Frein électronique
Pleurage et scintillement:	0,01% de valeur efficace* 0,025% de valeur efficace (JIS C5521) ± 0,35% de crête (IEC 98A Pondéré)

*Ce régime nominal se rapporte à l'ensemble du tournedisque seul, excluant les effets du disque, de la cellule pick-up ou de bras de lecture, mais comprenant le plateau.

Mesuré par l'obtention d'un signal provenant du générateur de fréquences incorporé de l'ensemble du moteur.

Ronflement:	–56 dB (IEC 98A Non pondéré) –78 dB (IEC 98A Pondéré)
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■ Bras de lecture

Type:	Bras de lecture universel
Longueur effective:	230 mm
Portée du réglage de la hauteur de bras:	0 – 6 mm
Porte-à-faux:	15 mm
Masse réelle:	12 g (sans la cellule pick-up)
Angle d'erreur de piste:	En deçà de 2°32' au sillon extérieur d'un disque de 30 cm En deçà de 0°32' au sillon intérieur d'un disque de 30 cm
Angle de décalage:	22°
Frottement:	Moins de 7 mg (latéral et vertical)
Plage de réglage de la pression d'appui:	0 – 2,5 g
Gamme du poids de la cellule pick-up utilisable:	6 – 10 g 13,5 – 17,5 g (y compris la coque porte-cellule)
(avec contrepoids auxiliaire):	9,5 – 13 g 17 – 20,5 g (y compris la coque porte-cellule)
(avec contrepoids de la cellule):	3,5 – 6,5 g 11 – 14 g (y compris la coque porte-cellule)
Poids de la cellule:	7,5 g

ESPECIFICACIONES

Las especificaciones quedan sujetas a cambios sin aviso previo.
El peso y las dimensiones indicados son aproximados.

■ En general

Alimentación de corriente:	~ 110-120/220-240 V, 50 ó 60 Hz
Consumo de corriente:	13,5 W
Dimensiones: (Ancho x Alto x Prof.)	45,3 x 16,2 x 36 cm
Peso:	12,5 kg

■ Sección del plato giratorio

Tipo:	Plato giratorio manual de accionamiento directo por cuarzo
Método de accionamiento:	Accionamiento directo
Motor:	Motor de corriente continua sin escobillas
Platillo del plato giratorio:	Aluminio fundido Diámetro 33,2 cm Peso 2 kg.
Velocidades del plato giratorio:	33-1/3 y 45 rpm
Par motor de arranque:	1,5 kg · cm
Características de establecimiento:	0,7 s. (a partir de reposo) hasta 33-1/3 rpm
Sistema de frenado:	Freno electrónico
Ululaciones y trémolo:	0,01% WRMS* 0,025% WRMS (JIS C5521) ± 0,035% cresta (IEC 98A Ponderado)

*Estas características se refieren únicamente al conjunto del plato giratorio, con exclusión de los efectos provenientes del disco, cartucho o del brazo sonoro, incluyendo, empero, el platillo. La medida fue tomada por medio de la señal obtenida del generador de frecuencia incorporado del conjunto del motor.

Ruido de rodadura:	-56 dB (IEC 98A No Ponderado)
	-78 dB (IEC 98A Ponderado)

■ Sección del brazo sonoro

Tipo:	Brazo sonoro universal
Longitud efectiva:	230 mm
Radio de ajuste de altura del brazo:	0 — 6 mm
Parte saliente:	15 mm
Masa efectiva:	12 g. (sin cartucho)
Angulo de descentramiento:	22°
Fricción:	Menos de 7 mg. (en sentido lateral y vertical)

Angulo de error de seguimiento:	Inferior a 2°32' en el surco exterior de un disco de 30 cm Inferior a 0°32' en el surco interior de un disco de 30 cm
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Radio de ajuste de la presión de la aguja:	0 a 2,5 g.
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Radio de peso de cartucho utilizable:	6 a 10 g. 13,5 a 17,5 g. (incluyendo la cápsula de la cabeza)
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(con contrapeso de balance de reserva):	9,5 a 13 g. 17 a 20,5 g (incluyendo la cápsula de la cabeza)
---	--

(con contrapeso de la cápsula):	3,5 a 6,5 g 11 a 14 g (incluyendo la cápsula de la cabeza)
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Peso de la cápsula de la cabeza:	7,5 g
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CHANGES

■ DISASSEMBLY INSTRUCTIONS

• How to remove the bottom cover and bottom base.

1. Remove the turntable mat and turntable.
2. Turn over the body on a soft cloth thaking care not to damage the dust cover.
3. Remove the insulators and the 21 setscrews (Fig. 1 : ①, ②, ③) of the bottom cover.
4. Remove the 6 setscrews (Fig. 2 : ④) of the bottom base.

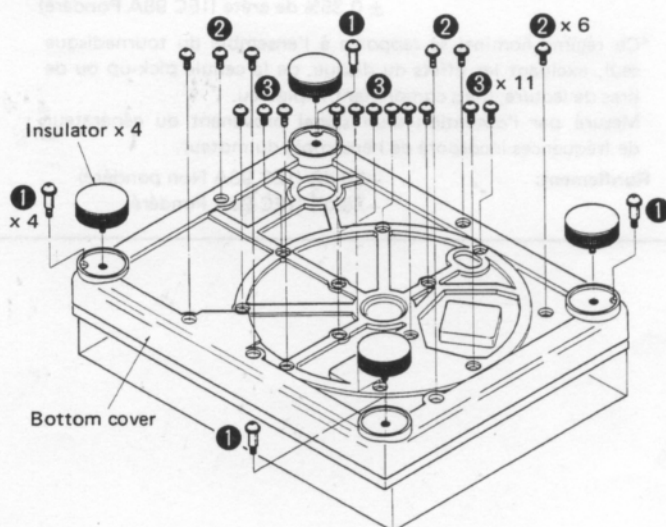


Fig. 1

Supplement

• How to remove the hinge case

1. Remove the bottom cover. (Refer to "How to remove the bottom cover".)
2. Remove the 4 setscrews (Fig. 2 : ⑤) of the hinge case bracket.
3. Remove the 4 setscrews (Fig. 2 : ⑥) of the hinge case.

Note: The other disassembly procedure are the same as for before-change sets.

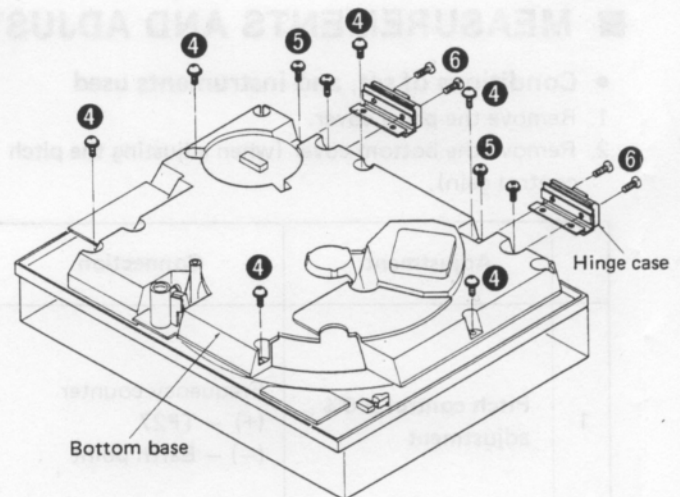


Fig. 2

■ REPLACEMENT PARTS LIST

Notes:

1. This parts list mentions only the difference between before and after change of SL-1200MK2/1210MK2.
2. (K) -marked parts are used only for SL-1210MK2 (black type). And (O) -marked parts are used for SL1200MK2 (silver type).
3. Parts other than (K) - and (O) -marked are used for both SL-1210MK2 and SL-1200MK2.
4. The "S" mark is service standard parts and may differ from production parts.

Areas

- * [M] is available in the U.S.A.
- * [MC] is available in Canada.
- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [XL] is available in Australia.
- * [EG] is available in F.R. Germany.
- * [EB] is available in Belgium.
- * [EH] is available in Holland.
- * [EF] is available in France.
- * [Ei] is available in Italy.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [PA] is available in far East PX.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.

Ref. No.	Change of,Part No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)			
INTEGRATED CIRCUIT					
IC302	SVITC4011BP	MN4011B	NAND Gate	1	
TRANSISTOR					
Q1	2SD389A—Q	2SD1265	Regulator	1	
DIODES					
D1	SVDS1RBA40	SVDS1RBA20Z	Rectifier	1	△
D201, 202	SVDSR—105C	SVDP3902S—9	Speed Indicator	2	
D203 ~ 206	SVDEBR5505S	SVDSLH54VT3	Strobe	4	
D401	SVDGL—9PG2	SVDGL—9NG2	Pitch Indicator	1	
CRYSTAL					
X201	SVQU306115	SVQMS4193	4.193 MHz, Oscillator	1	
VARIABLE RESISTORS					
VR301	EVMH2GA00B53	EVMH1GA00B23	Pitch Control Adjustment, 2kΩ (B)	1	
VR303	EVBJ05C19ABE	SFDZ122N11	Pitch Control	1	
SWITCHES					
S203	SFDSS5GL13C	SFDSS01GL13	Start/Stop	1	
S601	SFDSS5GL13S	SFDSS5GL13P	Power	1	△
TRANSFORMER					
T1	SLT60EU7B	SLT66DTL3A [M]	Power Source	1	△
T1	SLT60E31C	SLT66DT14C [MC]	Power Source	1	△
T1	SLTF5900	SLT66DTE13A [Other areas]	Power Source	1	△

Ref. No.	Change of Part No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)			
RESISTORS					
R4	ERD25FJ561	ERD25FJ471	Carbon, 1/4W, 470Ω	1	Ⓢ
R209	ERD25TJ154	ERD25TJ334	Carbon, 1/4W, 330kΩ	1	Ⓢ
R211	ERD25FJ103	ERD25FJ472	Carbon, 1/4W, 4.7kΩ	1	Ⓢ
R212	ERD25FJ121	ERD25FJ151	Carbon, 1/4W, 150Ω	1	Ⓢ
R222	Addition	ERD25FJ391	Carbon, 1/4W, 390Ω	1	Ⓢ
R301	ERO25CKF3301	ERO25CKF2701	Metal Film, 1/4W, 2.7kΩ	1	Ⓢ
R304	ERD25FJ152	ERD25FJ561	Carbon, 1/4W, 560Ω	1	Ⓢ
R401	Addition	ERD50FJ152	Carbon, 1/2W, 1.5kΩ	1	Ⓢ
R601	ERD25FJ4R7	ERD50FJ4R7	Carbon, 1/2W, 4.7Ω	1	△ Ⓢ
CAPACITORS					
C5, 6	Addition	ECQM1223KZ	Polyester, 125V, 0.022μF	1	△
C104 ~ 107	ECQM1H104KZ	ECQM1H104JZ	Polyester, 50V, 0.1μF	4	Ⓢ
C109, 110	ECQM1H104KZ	ECQM1H104JZ	Polyester, 50V, 0.1μF	2	Ⓢ
C111	ECQM1H562KZ	ECQM1H562JZ	Polyester, 50V, 0.0056μF	1	Ⓢ
C204	ECQM1H473KZ	ECQM1H473JZ	Polyester, 50V, 0.047μF	1	Ⓢ
C210	ECQM1H224KZ	ECQM1H224JZ	Polyester, 50V, 0.22μF	1	Ⓢ
C211	ECQM1H473KZ	ECQM1H473JZ	Polyester, 50V, 0.047μF	1	Ⓢ
C217 ~ 219	Addition	ECKD1H104ZF	Ceramic, 50V, 0.1μF	1	Ⓢ
C301	ECQK1123FZ	ECQK1333GZ	Polyester, 125V, 0.033μF	1	
C302	ECQK1123FZ	ECQK1682GZ	Polyester, 125V, 0.0068μF	1	
C305	ECQM1H122KZ	ECQM1H122JZ	Polyester, 50V, 0.0012μF	1	Ⓢ
CABINET and CHASSIS PARTS					
9	SFUP122-12	Deletion	-----	0	
10	SFAC122-01	SFAC122-01	Cabinet (Silver)	1	○
		SFAC124S01	Cabinet (Black)	1	Ⓚ
25	SFXB122-02	SFXB122-06	Boss, Drive	1	
33	SFQA001-02	SFQA122-03	Spring	1	
36	SFUP025-01	SFUP122-16 [M, MC, PA, PE, PC]	Bracket, AC Cord	1	
	SFUP025X01	SFUP122X01 [Other areas]	Bracket, AC cord	1	
38	SFUP132-03	SFGC122-03	Cushion	2	
40	SFUP122-10	Deletion	-----	0	
42	SFKK122-03	SFKK122-03	Plate (Silver)	1	
		SFKK124S01	Plate (Black)	1	
48	SFAU122-01	SFAU122-02	Bottom Base	1	
48-1	Addition	SFAU122-03	Bottom Cover	1	
49	SFUP122-05	SFUP122-23	Supporter (A), Hinge	2	
50	SFUP122-04	SFUP122-24	Supporter (B), Hinge	2	
51	SFUM170-07	SFUMM02N04	Case, Hinge	2	
55	SFNN122M01	SFNN122M10 [M]	Name Plate	1	○
	SFNN122C01	SFNN122C10 [MC]	Name Plate	1	○
	SFNN122S01	SFNN122S10 [E]	Name Plate	1	○
	SFNN122L01	SFNN122G10 [EK, XL]	Name Plate	1	○
	SFNN122X01	SFNN122X10 [XA]	Name Plate	1	○
	Addition	SFNN122P10 [PA, PE]	Name Plate	1	○
	Addition	SFNN122P11 [PC]	Name Plate	1	○
	SFNN122N01	SFNN122N10 [Other areas]	Name Plate	1	○
	Addition	SFNN124S10 [E]	Name Plate	1	Ⓚ
Addition	SFNN124Q10 [EG, EH]	Name Plate	1	Ⓚ	
56	SFX0122-01	Deletion	-----	0	
57	SFX0122-02	Deletion	-----	0	
58	SFAT122-01A	SFATM02N01A	Hinge	1	

Ref. No.	Change of Part No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SL-1200MK2 (Before Change)	SL-1200MK2/1210MK2 (After Change)			
TONEARM PARTS					
62	SFPAM18201K	SFPAM18201K	Tonearm Ass'y (Silver)	1	○
		SFPAM18202K	Tonearm Ass'y (Black)	1	Ⓚ
79	SFPKB17201S	SFPKB17204E	Ring, Arm Base Operation	1	
82	SFGK132-01	SFGK132-01	Cap (Silver)	1	○
		SFGK133S01	Cap (Black)	1	Ⓚ
ACCESSORIES					
A1	SFNU122M01	SFNU122M06 [M]	Instruction Book	1	
	SFNU122C01	SFNU122C06	Instruction Book	1	
	SFNU122S01	SFNU122S01 [E]	Instruction Book	1	
	SFNU122G01	SFNU122G01 [EK]	Instruction Book	1	
	Addition	SFNU122P01 [PA, PE, PC]	Instruction Book	1	
	SFNU122X01	SFNU122X01 [Other areas]	Instruction Book	1	
A2	SFWE010	SFWE122-01	45 Adaptor	1	
PACKING PARTS					
P1	SFHP122C01	SFHP122C02 [MC, EF]	Carton Box (Silver)	1	○
	SFHP122M01	SFHP122M02 [Other areas]	Carton Box (Silver)	1	○
		SFHP124S02	Carbon Box (Black)	1	Ⓚ
P9	Addition	SPB1083	Polyethylene Bag, Accessories	2	
P10	Addition	SPJ15	Polyethylene Bag, Shell Weight	1	
P11	Addition	SFHZD03M01	Polyethylene Bag, Dust Cover	3	
P12	Addition	SFHZ122-01	Polyethylene Bag, 45 Adaptor	1	
P13	Addition	SPP189	Polyethylene Bag, Cords	2	

■ ADJUSTMENT POINTS

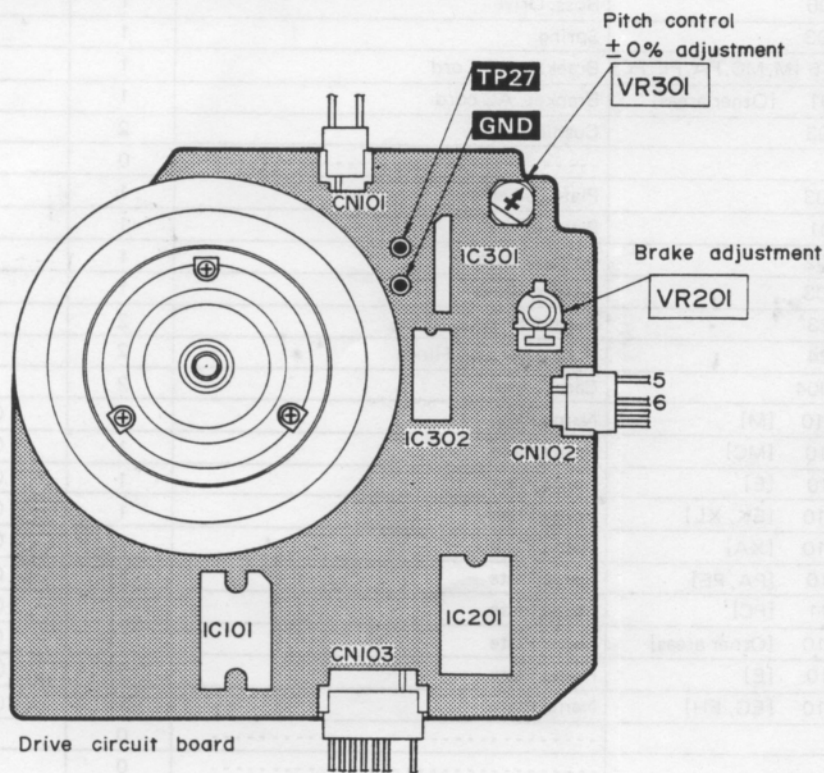


Fig. 3 (Abb. 3)

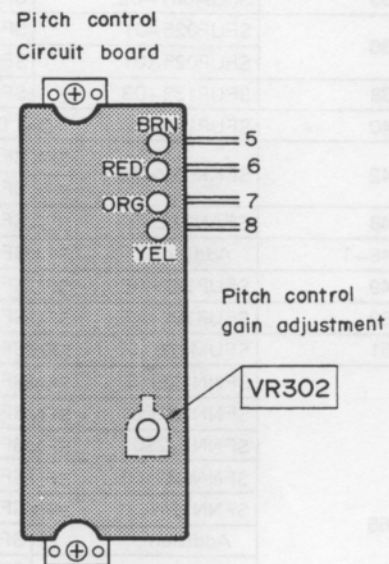


Fig. 4 (Abb. 4)

MEASUREMENTS AND ADJUSTMENTS English

• Conditions of set, and instruments used

1. Remove the panel cover.
2. Remove the bottom cover (when adjusting the pitch control gain).

3. Frequency counter
4. Tester

	Adjustment	Connection	Parts adjusted	Procedure
1	Pitch control $\pm 0\%$ adjustment	Frequency counter (+) – TP27 (–) – Earth point	VR301 (Fig. 3)	1. Connect the frequency counter and turn the power supply ON. 2. Set the pitch control knob to "0". (Indicator lights up.) 3. Adjust VR301 so that the frequency is $262.08 \text{ kHz} \pm 0.05 \text{ kHz}$.
2	Pitch control gain adjustment	Tester (+) – CN102 terminal ⑤ (–) – CN102 terminal ⑥	VR302 (Fig. 4)	1. Set the pitch control knob to "0". 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 $2.7 \text{ k}\Omega \pm 0.1 \text{ k}\Omega$.
3	Brake adjustment	_____	VR201 (Fig. 3)	1. Adjust VR201 so that the rotation at 33 r.p.m. stops within the angle of $90^\circ \sim 120^\circ$ after depressing the stop button.

MESSUNGEN UND JUSTIERUNGEN Deutsch

• Zustand des Gerätes und zu verwendende Instrumente

1. Die Abdeckplatte entfernen.
2. Die Bodenabdeckung entfernen (wenn die Drehzahlregelungs-Verstärkung justiert werden soll).

3. Frequenzzähler
4. Prüfgerät

	Justierung	Anschlüsse	Zu justie- render Teile	Vorgehen
1	$\pm 0\%$ -Justierung des Drehzahlreglers	Frequenzzähler (+) – TP27 (–) – Massepunkt	VR301 (Abb. 3)	1. Frequenzzähler anschließen und Netzschalter einschalten. 2. Drehzahlreglerknopf auf "0" stellen. (Anzeige leuchtet auf.) 3. VR301 so justieren, daß die Frequenz $262,08 \text{ kHz} \pm 0,05 \text{ kHz}$ beträgt.
2	Justierung der Drehzahlregelungs-Verstärkung	Prüfgerät (+) – CN102 Anschluß ⑤ (–) – CN102 Anschluß ⑥	VR302 (Abb. 4)	1. Den Drehzahlreglerknopf auf "0" einstellen. 2. Steckverbindung CN102 von der Antriebsplatine herausziehen. 3. Prüfgerät an Anschlüsse ⑤ und ⑥ der Steckverbindung CN102 auf der Drehzahlreglerseite der Platine anschließen. 4. VR302 so justieren, daß der Widerstandswert des Prüfgerätes $2,7 \text{ k}\Omega \pm 0,1 \text{ k}\Omega$ beträgt.
3	Bremsjustierung	_____	VR201 (Abb. 3)	1. VR201 so justieren, daß die Rotation bei 33 UPM innerhalb $90^\circ \sim 120^\circ$ nach Drücken der Stop-Taste stoppt.

MESURAGES ET RÉGLAGES

Français

• Conditions de l'appareil et appareils utilisés.

1. Retirer le panneau de protection.
2. Retirer le panneau de protection inférieur (lors de l'ajustement de l'amplification du réglage d'écart).
3. Compteur de fréquence
4. Appareil contrôleur

	Mise au point	Raccordement	Elements à régler	Marche à suivre
1	Ajustement de $\pm 0\%$ du réglage d'écart	Compteur de fréquence (+) — TP27 (-) — Point de contact à la terre	VR301 (Fig. 3)	1. Raccorder le compteur de fréquence et mettre en marche l'alimentation. 2. Régler le bouton du réglage d'écart sur "0". (L'indicateur s'éclairera.) 3. Ajuster VR301 de telle sorte que la fréquence soit de $262,08 \text{ kHz} \pm 0,05 \text{ kHz}$.
2	Ajustement de l'amplification du réglage d'écart	Appareil contrôleur (+) — Borne CN102 ⑤ (-) — Borne CN102 ⑥	VR302 (Fig. 4)	1. Régler le bouton de réglage d'écart sur "0". 2. Retirer le connecteur CN102 de la plaquette à circuits imprimés de commande. 3. Raccorder l'appareil contrôleur aux bornes ⑤ et ⑥ du connecteur CN102 sur le côté de la plaquette à circuits imprimés du réglage d'écart. 4. Ajuster VR302 de telle sorte que la valeur de résistance de l'appareil contrôleur soit de $2,7 \text{ k}\Omega \pm 0,1 \text{ k}\Omega$.
3	Ajustement du frein	_____	VR201 (Fig. 3)	1. Régler VR201 de telle sorte que la rotation à 33 t/p.m. s'arrête en deçà d'un angle de $90^\circ \sim 120^\circ$ après avoir appuyé sur la touche d'arrêt.

MEDICIONES Y AJUSTE

Español

• Condiciones de aparato e instrumentos usados

1. Remover la cubierta del panel.
2. Remover la cubierta inferior (al ajustar la ganancia de control de altura de los sonidos).
3. Contador de frecuencia
4. Probador

	Ajuste	Conexión	Piezas ajustadas	Procedimiento
1	Ajuste $\pm 0\%$ de control de altura	Contador de frecuencia (+) — TP27 (-) — Punto de tierra	VR301 (Fig. 3)	1. Conectar el contador de frecuencia y prender la fuente de alimentación. 2. Ajustar la perilla de control de altura de sonidos a "0". (El indicador se ilumina.) 3. Ajustar VR301 de manera que la frecuencia sea $262,08 \text{ kHz} \pm 0,05 \text{ kHz}$.
2	Ajuste de ganancia de control de altura	Probador (+) — Terminal de CN102 ⑤ (-) — Terminal de CN102 ⑥	VR302 (Fig. 4)	1. Poner el control de altura de sonidos en "0". 2. Sacar el conector CN102 de T.C.I. de accionamiento. 3. Conectar el probador a terminales ⑤ y ⑥ de conector CN102 del lado de T.C.I. de control de altura. 4. Ajustar VR302 de manera que el valor de resistencia del probador sea $2,7 \text{ k}\Omega \pm 0,1 \text{ k}\Omega$.
3	Ajuste de freno	_____	VR201 (Fig. 3)	1. Ajustar VR201 de manera que la rotación a 33 r.p.m. se pare dentro del ángulo de $90^\circ \sim 120^\circ$ después oprimir el botón de parada.

RESISTORS AND CAPACITORS

- Notes:**
- Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
 - The "S" mark is service standard parts and may differ from production parts.
 - Bracketed indications in Ref. No. column specify the area. Parts without these indications can be used for all area.
 - The unit of resistance is Ω (ohm).
K = 1000 Ω , M = 1000k Ω
 - The unit capacitance is μ F (microfarad).
P = 10⁻⁶ μ F

Areas

- * [M] is available in the U.S.A.
- * [MC] is available in Canada.
- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [XL] is available in Australia.
- * [EG] is available in F.R. Germany.
- * [EB] is available in Belgium.
- * [EH] is available in Holland.
- * [EF] is available in France.
- * [Ei] is available in Italy.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [PA] is available in far East PX.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.

Numbering System of Resistor

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value
ERX	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value

Resistor type	Wattage	Tolerance
ERD: Carbon	25 : 1/4W	F : $\pm 1\%$
ERG: Metal Oxide	50 : 1/2W	J : $\pm 5\%$
ERO: Metal Film	1A : 1W	
ERX: Metal Film	2A : 2W	

Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Peculiarity
ECEA	50	M	R47	R
Type	Voltage	Regularity use	Value	Special use

Capacitor Type	Voltage	Tolerance
ECEA : Electrolytic	OJ : 6.3V	J : $\pm 5\%$
ECEB : Electrolytic	1C : 16V	K : $\pm 5\%$
ECCD : Ceramic	1E : 25V	M : $\pm 20\%$
ECQM : Polyester	1H : 50V	Z : $+80\%, -20\%$
ECQU : Polyester	1 : 100V	
ECQF : Polyester	1A : 125V	
ECNC : Polyester	4A : 400V	

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS			CAPACITORS								
R1	S ERD25FJ562	5.6K	R210	S ERD25TJ183	18K	C1	ECEB1HU471	470	C210	S ECQM1H224JZ	0.22
R2	S ERD25FJ682	6.8K	R211	S ERD25FJ472	4.7K	C2	ECEA1EU330	33	C211	S ECQM1H473JZ	0.047
R3	S ERD25FJ272	2.7K	R212	S ERD25FJ151	150	C3	ECEA1EU220	22	C212	ECEA1HU3R3	3.3
R4,5	S ERD25FJ471	470	R213	S ERD25FJ122	1.2K	C5,6	ECQM1223KZ	0.022	C213	S ECCD1H471K	470P
R101	S ERD25FJ103	10K	R214	S ERD25TJ223	22K	C101,102	ECEA1EU330	33	C214	ECEA1CU101	100
R102	S ERX1ANJ4R7	4.7	R215	S ERD25FJ472	4.7K	C103	ECEA1EU330	33	C215	ECEA1HU010	1
R103	S ERD25FJ472	4.7K	R216	S ERD25TJ154	150K	C104,105	S ECQM1H104JZ	0.1	C216	ECEA1CU470	47
R104	S ERD25TJ473	47K	R217	S ERD25TJ223	22K	C106,107	S ECQM1H104JZ	0.1	C217,218	ECKD1H104ZF	0.1
R105	S ERD25FJ103	10K	R218	S ERD25FJ102	1K	C108	ECEA1EU101	100	C219	ECKD1H104ZF	0.1
R106	S ERD25FJ150	15	R219	S ERD25FJ332	3.3K	C109,110	S ECQM1H104JZ	0.1	C301	ECQK1333GZ	0.033
R107	S ERX1ANJ1R5	1.5	R220	S ERD25FJ221	220	C111	S ECQM1H562JZ	0.0056	C302	ECQK1682GZ	0.0068
R108	S ERD25FJ103	10K	R221	S ERD25FJ471	470	C112	ECEA1HU4R7	4.7	C303	ECEA1HU010	1
R109,110	S ERX1ANJ4R7	4.7	R222	S ERD25FJ391	390	C201	ECEA1CU330	33	C304	ECEA1CU100	10
R201	S ERG1ANJ561	560	R301	S ER025CKF2701	2.7K	C202,203	ECEA1HU010	1	C305	S ECQM1H122JZ	0.0012
R202	S ERD25FJ103	10K	R302	S ERD25FJ471	470	C204	S ECQM1H473JZ	0.047	C306	ECEA1HU010	1
R203	S ERD25FJ470	47	R303	S ERD25FJ822	8.2K	C205	ECEA0JU221	220	C601 [M]	Δ ECQF1A473MD	0.047
R204	S ERD25FJ272	2.7K	R304	S ERD25FJ561	560	C206	ECEA1HU010	1	C601 [MC]	Δ ECQU1A47ME	0.047
R205	S ERD25TJ124	120K	R305	S ERD25FJ181	180	C207	S ECCD1H101K	100P	C601 [Other areas]	Δ ECNC4A473M	0.047
R206	S ERD25TJ183	18K	R306	S ERD25TJ223	22K	C208	S ECCD1H220K	22P			
R207	S ERD25TJ563	56K	R307	S ERD25FJ272	2.7K	C209	ECEA1CU101	100			
R208	S ERD25TJ224	220K	R401	S ERD50FJ152	1.5K						
R209	S ERD25TJ334	330K	R601	S ERD50FJ4R7	4.7						

REPLACEMENT PARTS LIST

- Notes:**
- Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
 - Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
 - The "S" mark is service standard parts and may differ from production parts.
 - The parenthesized numbers in the column of description stand for the quantity per set.
 - (K)-marked parts are used only for SL-1210MK2 (black type). And (O)-marked parts are used for SL-1200MK2 (silver type).
 - Parts other than (K)- and (O)-marked are used for both SL-1210MK2 and SL-1200MK2.

Areas

- * [M] is available in the U.S.A.
- * [MC] is available in Canada.
- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [XL] is available in Australia.
- * [EG] is available in F.R. Germany.
- * [EB] is available in Belgium.
- * [EH] is available in Holland.
- * [EF] is available in France.
- * [Ei] is available in Italy.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [PA] is available in far East PX.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.

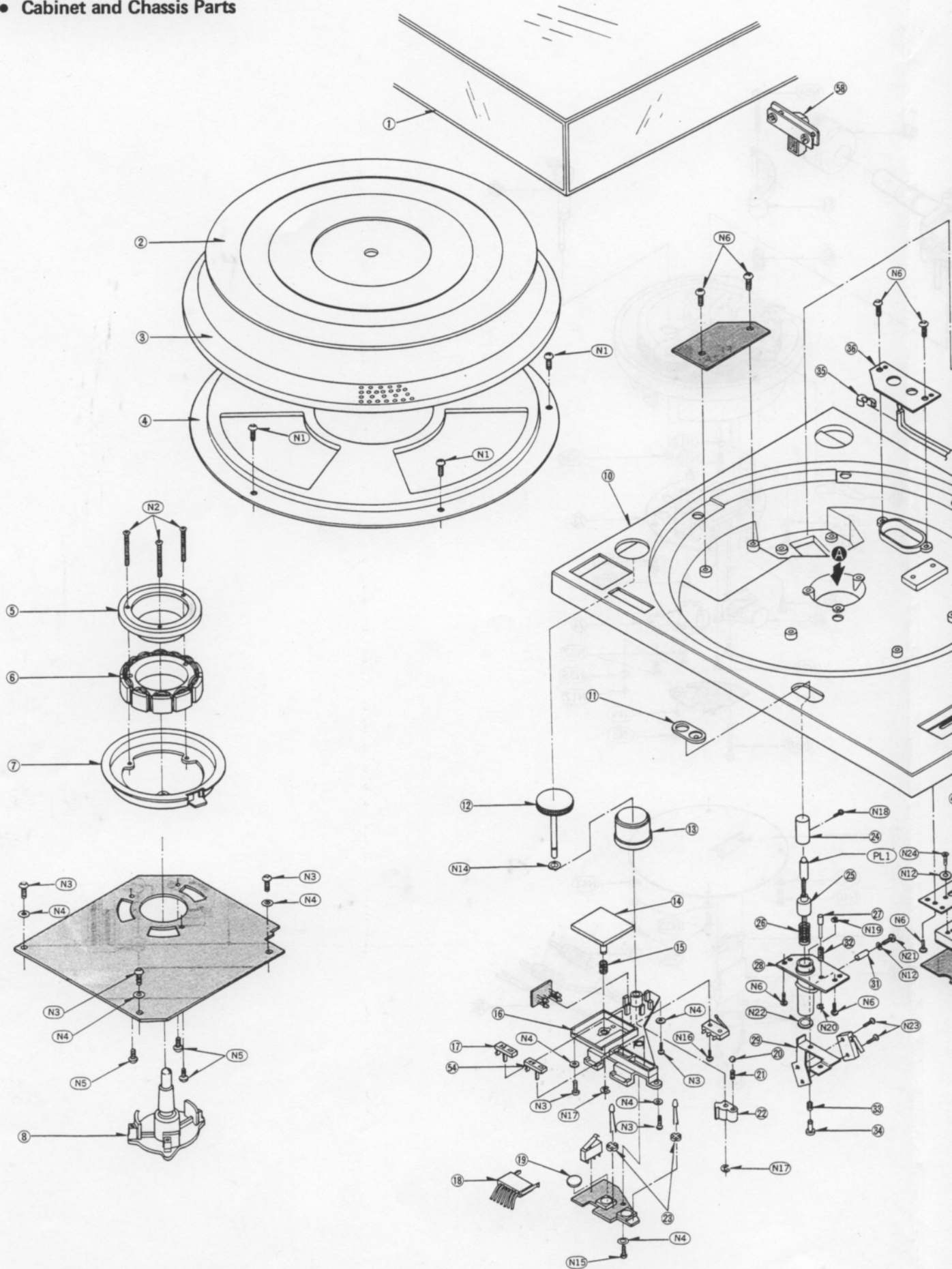
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
INTEGRATED CIRCUITS			CRYSTAL			LAMP		
IC101	AN6675	Turntable Drive	X201	SVQMS4193	4.193MHz Oscillator	PL1	Δ SFDN122-01	Stylus Illuminator
IC201	AN6680	Turntable Control	VARIABLE RESISTORS			TRANSFORMER		
IC301	AN6682	Pitch Control	VR201	(S) EVTS3MA00B54	Brake Adjustment, 50k Ω (B)	T1 (M)	Δ SLT66DTL3A	Power Source
IC302	MN4011B	NAND Gate	VR301	EVMH1GA00B23	Pitch Control $\pm 0\%$	T1 (MC)	Δ SLT66DT14C	Power Source
TRANSISTORS			VR302	(S) EVTS3MA00B54	Pitch Control Gain Adjustment, 50k Ω (B)	T1 (Other areas)	Δ SLT66DTE13E	Power Source
Q1	2SD1265	Regulator	VR303	SFDZ122N11	Pitch Control	FUSES		
Q2,3	2SD637	Regulator	SWITCHES			F1 (MC)	Δ XBA1F12NU14	125V, 1.2A
Q201	(S) 2SC1846-R	Regulator	S201, 202	EVQP5R04K	Speed Selector	F1 Except for (M, MC)	Δ XBA2C025T1A	250V, T250mA
Q202	2SD637	Regulator	S203	SFDSSS01GL13	Start/Stop	F2 Except for (M, MC)	Δ XBA2C10TR0	250V, T1A
Q203	(S) 2SC1328-T	LED Driver	S401	SFDSD2MSL-C	Stylus-Illuminator			
DIODES			S601	(S) SFDSSS5GL13P	Power			
D1	Δ SVDS1RBA20Z	Rectifier	S602 Except for (M, MC)	(S) SFDSHXW01317	Voltage Selector			
D2	MA1051	5.1V Zener						
D201, 202	SVDPR3902S-9	Speed Indicator						
D203~206	SVDSLH54VT3	Strobe						
D204A	MA162A	Switching						
D301	MA1051	5.1V Zener						
D401	SVDGL-9NG2	Pitch Indicator						

Ref. No.	Part No.	Description
CHABINET AND CHASSIS PARTS		
1	SFAD122-01A	Dust Cover (1)
2	SFTG172-01	Turntable Mat (1)
3	SFTE172-01	Turntable Platter Ass'y (1)
4	SFUM172-05	Cover, Cabinet (1)
5	SFMGQ20-01	Cover, Drive Coil (1)
6	SFMG520-31A	Drive Coil Ass'y (1)
7	SFMZ172-01E	FG Coil Ass'y (1)
8	SFMZQ20-01A	Shaft Ass'y, Turntable (1)
10	○ SFAC122-01	Cabinet (Silver)
10	⊗ SFAC124S01	Cabinet (Black) (1)
11	SFUM172-04	Ornament, Stylus Illuminator (1)
12	SFKT122-01	Knob, Power Switch (1)
13	SFKK122-01E	Case, Strobe Illuminator (1)
14	SFKT015-06	Button, Start/Stop (1)
15	SFQA122-01	Spring, Start/Stop Button (1)
16	SFUM122-01	Base, Operation (1)
17	SFKT015-01E	Button, Speed (3)
18	SFDJ122-02E	Connector, 7pin (1)
19	SFGZ122-01	Spacer, Rubber (1)
20	SFYB-5-32	Ball, Switch Cam (1)
21	SFQA520-01	Spring, Switch Cam (1)
22	SFUM122-03	Cam, Power Switch (1)
23	SFUM015-11	Spacer, Speed Indicator (2)
24	SFKK172-01	Cover, Stylus Illuminator (1)
25	SFXB122-06	Boss, Drive (1)
26	SFQA172-01	Spring, Drive Boss (1)
27	SFXJ172-01	Pin, Lock Canceler (1)
28	SFUP122-02E	Bracket, Stylus Illuminator (1)
29	SFUP122-03	Plate, Lock Operation (1)
30	SFDJ122-03E	Connector, 3pin (1)
31	SFX0172-01	Pin, Guide (1)
32	SFQA520-01	Spring, Lock Canceler (1)
33	SFQA122-02	Spring, Lock Operation Plate (1)
34	SFXJ172-05	Pin, Lock Operation Plate (1)
35	[M,MC,PA PE,PC] SFHK040L	Clamper, AC Cord (1)
35	[EK] SFSR-5N-4	Clamper, AC Cord (1)
35	[Other areas] SFSR-4N-4	Clamper, AC Cord (1)
36	[M,MC,PA PE,PC] SFUP122-16	Bracket, AC Cord (1)
36	[Other areas] SFUP122X01	Bracket, AC Cord (1)
37	△ [M,MC] RJA9Y	AC Cord (1)
37	[EK] △ QFC1205M	AC Cord (1)
37	[XL] △ SJA83	AC Cord (1)
37	[PA,PE,PC] △ SJA83	AC Cord (1)
37	[Other areas] △ SJA88	AC Cord (1)
38	SFGC122-03	Rubber, Power Transformer (2)
39	SFGC122-01	Cushion, Power Transformer (3)
41	SFKT122-02	Knob, Pitch Control (1)
42	○ SFKK122-03	Ornament (Silver), Pitch Control (1)
42	⊗ SFKK124S01	Ornament (Black), Pitch Control (1)
43	SFUZ122-01	Felt (1)
44	SFUP122-09	Holder, LED (1)
45	SFUP122-01	Bracket, Pitch Control (1)
46	SFDJ122-01E	Connector, 4pin (1)
48	SFAU122-02	Bottom Base (1)
48-1	SFAU122-03	Bottom Cover (1)
49	SFUP122-23	Supporter (A), Hinge (2)
50	SFUP122-24	Supporter (B), Hinge (2)
51	SFUMM02N04	Case, Hinge (2)

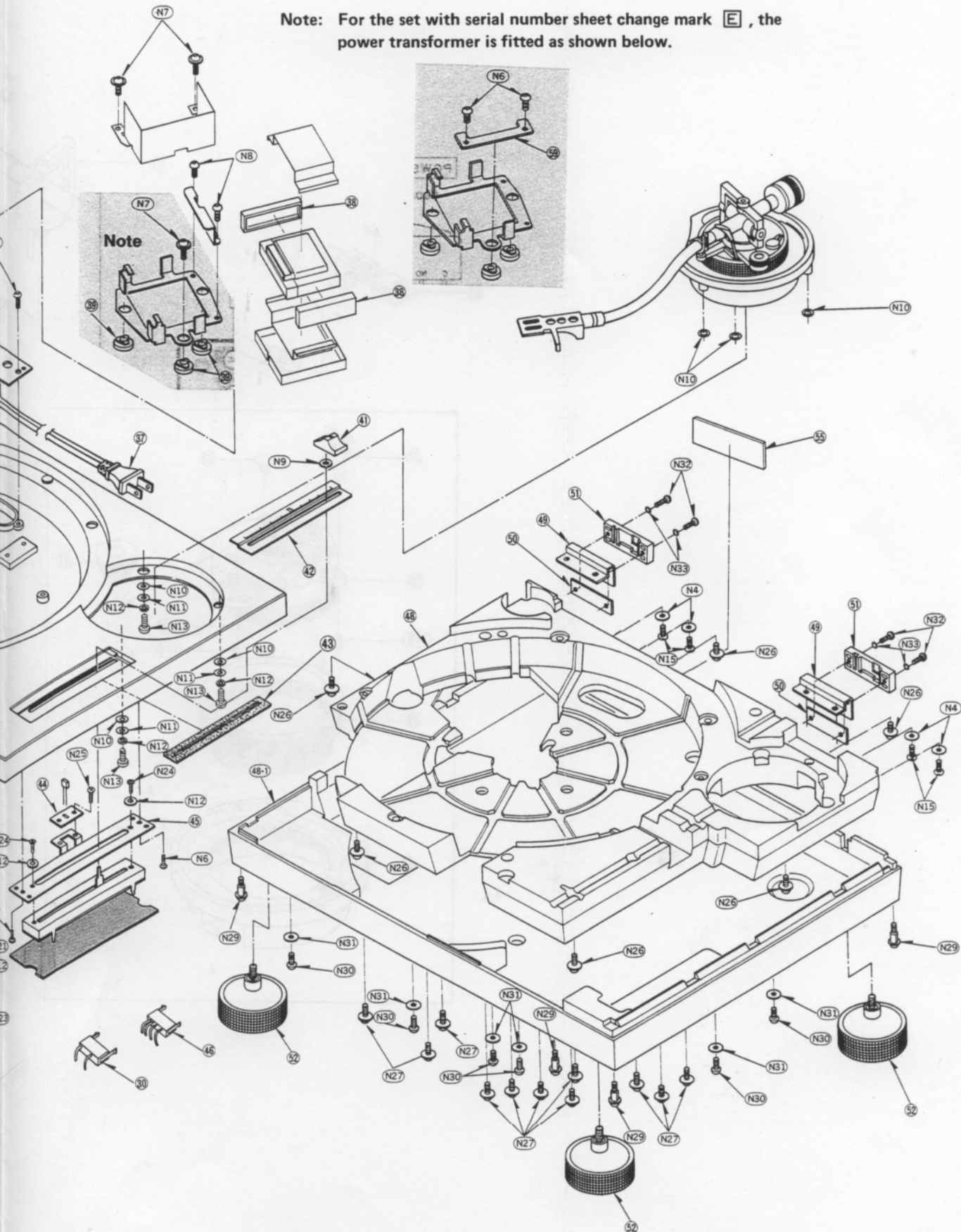
Ref. No.	Part No.	Description
52	SFGC122-02E	Insulator (4)
54	SFKT015-02E	Button, Speed (4)
55	[M] ○ SFNN122M10	Name Plate (1)
55	[MC] ○ SFNN122C10	Name Plate (1)
55	[E] ○ SFNN122S10	Name Plate (1)
55	[EK,XL] ○ SFNN122G10	Name Plate (1)
55	[XA] ○ SFNN122X10	Name Plate (1)
55	[PA,PE] ○ SFNN122P10	Name Plate (1)
55	[PC] ○ SFNN122P11	Name Plate (1)
55	[Other areas] ○ SFNN122N10	Name Plate (1)
55	[E] ⊗ SFNN124S10	Name Plate (1)
55	⊗ SFNN124Q10	Name Plate (1)
58	SFATM02N01A	Hinge (2)
59	SFUP122-25	Plate, Power transformer (1)
TONEARM PARTS		
61	SFPCC31001K	Headshell (1)
62	○ SFPAM18201K	Tonearm Ass'y (Silver) (1)
62	⊗ SEPAM18202K	Tonearm Ass'y (Black) (1)
63	SFPWG17201K	Balance Weight (1)
64	SFPRT18201K	Lift Ass'y (1)
65	SFPZB17202	Knob, Arm Base Lock (1)
66	SFQA829-03	Spring, Lift Ass'y (1)
67	SFPAB13202	Knob, Arm Lift (1)
68	SFPJL18202K	Oil Damper (1)
70	SFPZB12203	Plate, Arm Base Cover (1)
71	SFUM170-06	Spacer, Phono Cord (1)
72	SEPZB12204	Clamper, Phono Cord (1)
73	SFPAB18201K	Tonearm Fixing Plate (1)
74	SFPZB12201K	Plate (1)
75	SFDH122-05	Phono Cord (1)
76	SFEL028-01E	Ground Wire (1)
77	SFPRT17201K	Arm Rest (1)
78	○ SFPKD17203	Arm Base (Silver) (1)
78	⊗ SFPKD17205	Arm Base (Black) (1)
79	SFPKB17204E	Ring, Arm Base Operation (1)
80	SFPKD12201	Bracket, Arm Base (1)
81	SFPAB17206	Knob, Anti-Skating (1)
82	○ SFGK132-01	Cap (Silver) (1)
82	⊗ SFGK133S01	Cap (Black) (1)
SCREW, NUT AND WASHERS		
N1	⊗ XTN3+8BFZ	Screw (5)
N2	SFXGQ20-02	Screw (3)
N3	⊗ XTN3+8B	Screw (8)
N4	⊗ XWG3	Washer (12)
N5	⊗ XTN26+6B	Screw (3)
N6	⊗ XTU3+8BFN	Screw (8)
N7	SFXG172-01	Screw (3)
N8	XTN3+5J	Screw (2)
N9	SFXW172-03	Washer (1)
N10	SFPEW11003	Washer (6)
N11	⊗ XWE3E10	Washer (3)
N12	⊗ XWA3B	Washer (8)
N13	⊗ XSN3+10S	Screw (3)
N14	SFXW910J02	Washer (1)
N15	⊗ XTN3+10B	Screw (5)
N16	⊗ XTN2+10B	Screw (1)
N17	⊗ XUC3FT	Circlip (2)
N18	⊗ XSN17+3FY	Screw (1)
N19	⊗ XUC2FT	Circlip (1)
N20	⊗ XUC25FT	Circlip (1)
N21	⊗ XSN3+14S	Screw (1)
N22	RTW-12	Circlip (1)
N23	⊗ XSN2+10	Screw (2)
N24	⊗ XSN3+6S	Screw (2)
N25	⊗ XTN3+6B	Screw (5)
N26	XTWS3+14TFZ	Screw (6)
N27	SFXG122-02	Screw (1)
N29	SFXG122-01	Screw (4)
N30	XTN3+14QFZ	Screw (6)

Ref. No.	Part No.	Description
N31	⊗ XWG3FZ	Washer (6)
N32	⊗ XSN3+14BVS	Screw (4)
N33	⊗ XWA3BFZ	Washer (4)
N34	SFXG829-1	Screw (1)
N35	⊗ XSN3+8S	Screw (2)
N36	⊗ XUC5FT	Circlip (1)
N37	SFPEV17202	Screw (3)
N38	⊗ XTN3+25B	Screw (1)
N39	SFPEW1100	Washer (1)
N40	⊗ XSN3+6BVS	Screw (4)
N41	⊗ XWC3BFZ	Washer (1)
N42	⊗ XSN3+12BVS	Screw (2)
N43	⊗ XWG3FZ	Washer (2)
N44	SFXW701-02	Washer (1)
N45	SFPEW00705	Washer (4)
N46	XTW26+5E	Screw (1)
ACCESSORIES		
A1	[M] SFNU122M06	Instruction Book (1)
A1	[MC] SFNU122C06	Instruction Book (1)
A1	[E,EB,EC] SFNU122S01	Instruction Book (1)
A1	[EK] SFNU122G01	Instruction Book (1)
A1	[PA, PE,PC] SFNU122P01	Instruction Book (1)
A1	[Other areas] SFNU122X01	Instruction Book (1)
A2	SFWE010	45 Adaptor (1)
A3	SFPEW3302	Nut, Cartridge (2)
A4	SFPEW9601	Washer, Cartridge (2)
A5	SFCZV8801	Screw, Cartridge (2)
A6	SFPEW9801	Screw, Cartridge (2)
A7	SFK0135-01	Overhang Gauge (1)
A8	SFPZB3501	Shell Weight (1)
A9	△ SFDK119118	2pin Plug (1)
A10	[XA] Only SFPWG17202	Sub-weight (1)
A11	△ QJP0603S	Adaptor, Gimens
PACKING PARTS		
P1	[MC, EF] SFHP122C02	Carton Box (Silver) (1)
P1	[Other areas] ○ SFHP122M02	Carton Box (Silver) (1)
P1	⊗ SFHP124S02	Carton Box (Black) (1)
P2	SFHH122-01	Pad, Front (1)
P3	SFHH122-02	Pad, Rear (1)
P4	SFHD122N05	Pad, Top (1)
P5	SFHD122-02	Pad (A), Turntable (1)
P6	SFHD122N06	Pad (B), Turntable (1)
P7	SFYH60X60	Polyethylene Bag, Unit & Dust Cover (2)
P8	SFYH40X45	Polyethylene Bag, Turntable (1)
P9	SPB1083	Polyethylene Bag, Accessories (3)
P10	SPJ15	Polyethylene Bag, Shell Weight (1)
P11	SFHZD03M01	Cover Sheet, Dust Cover (1)
P12	SFHZ122-01	Cover Sheet, 45Adaptor (1)
P13	SPP189	Cover Sheet, Cords (2)

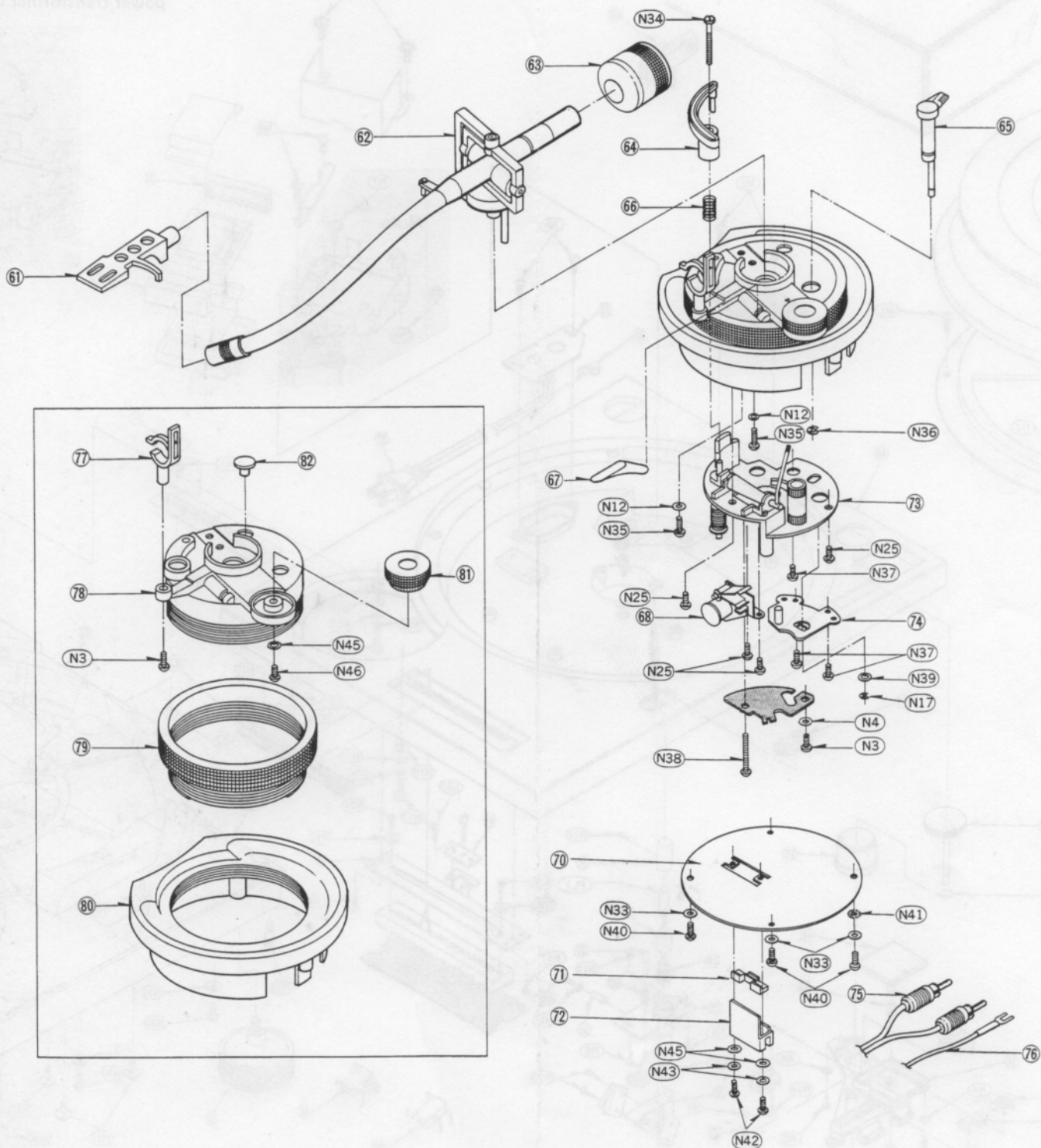
■ EXPLODED VIEWS ● Cabinet and Chassis Parts



Note: For the set with serial number sheet change mark **E** , the power transformer is fitted as shown below.

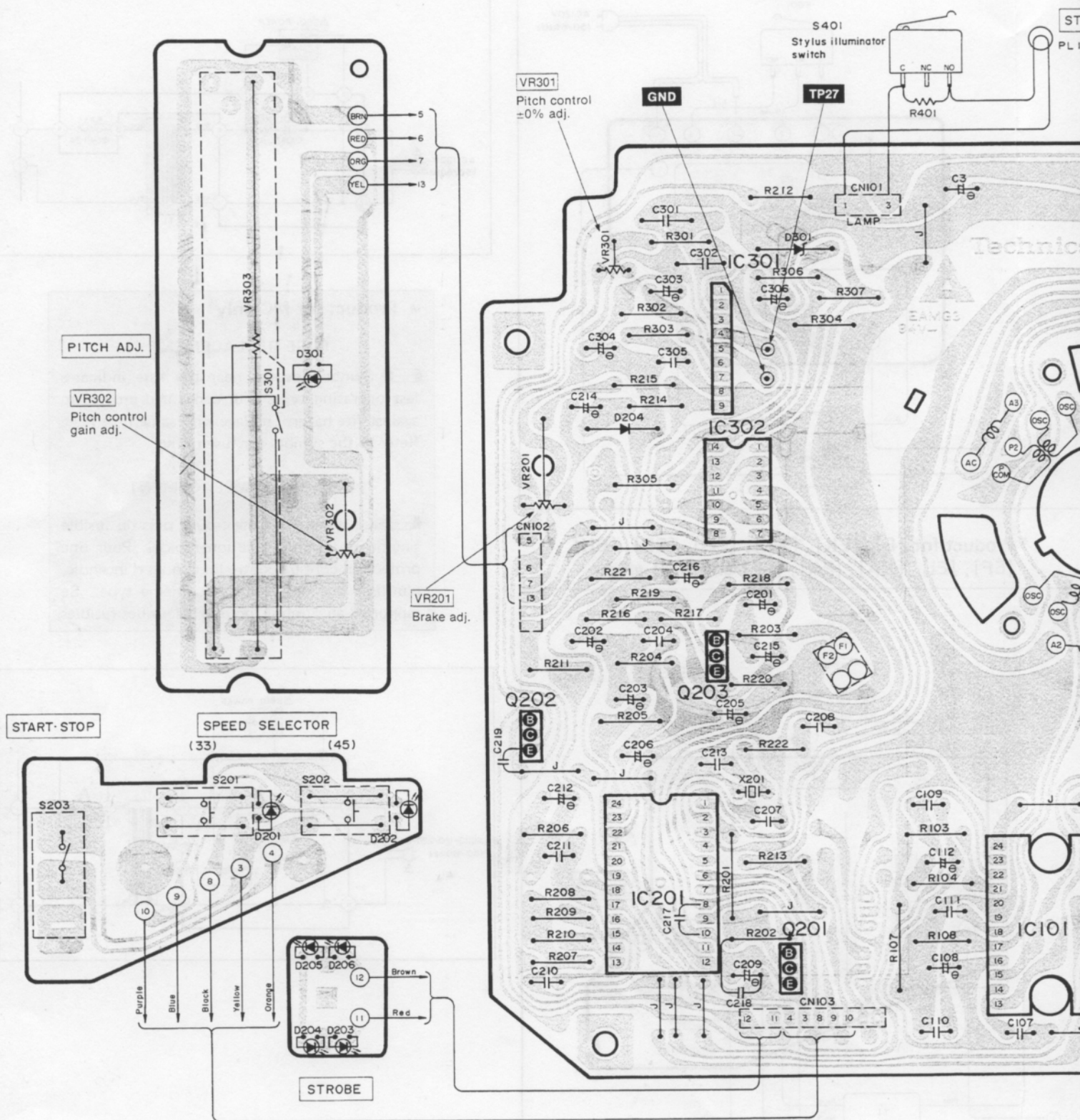


• Tonearm Parts



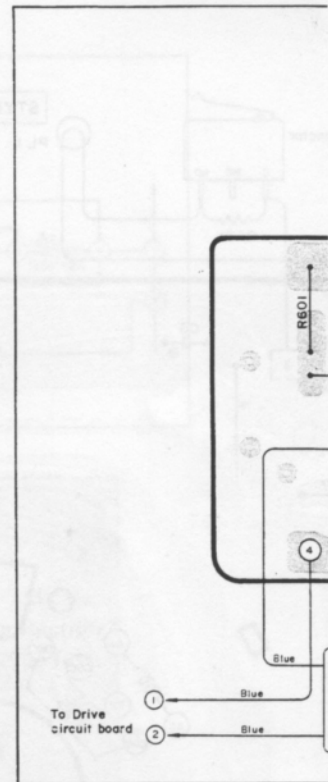
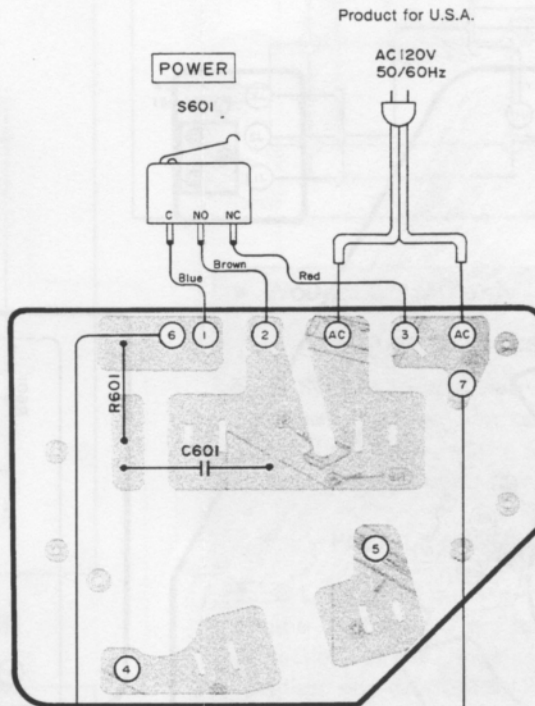
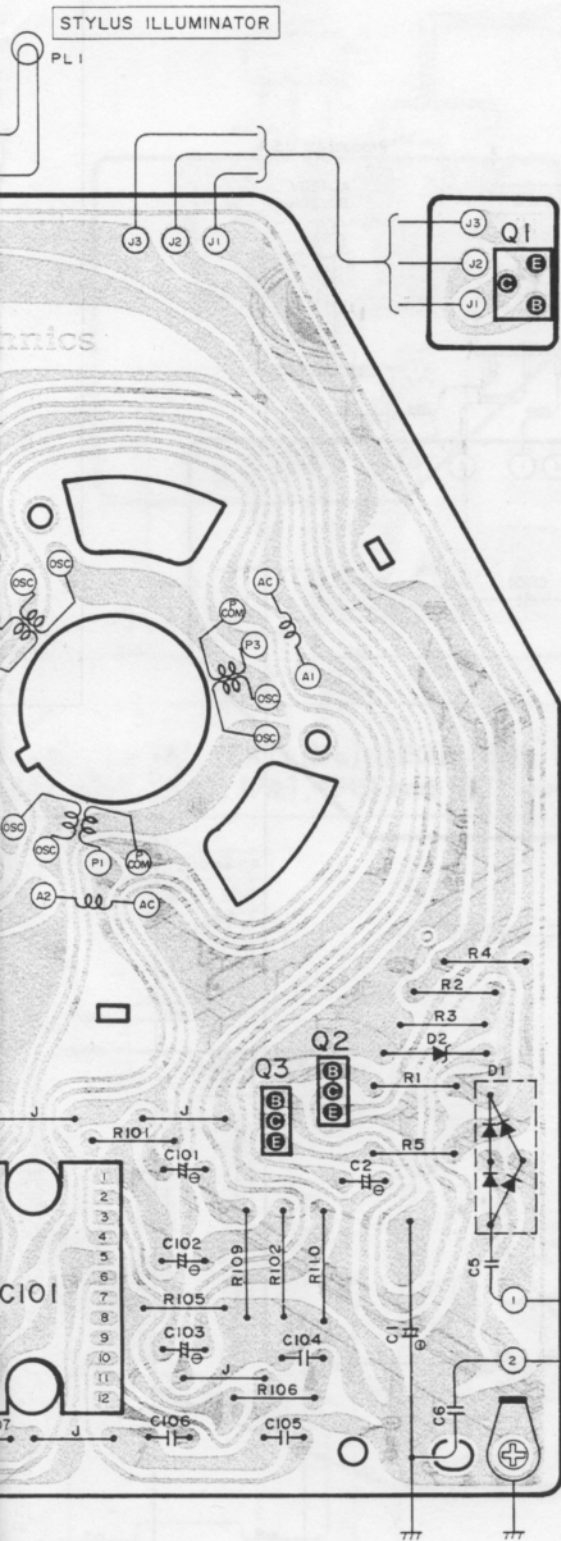
SL-1200MK2/1210MK2

■ CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

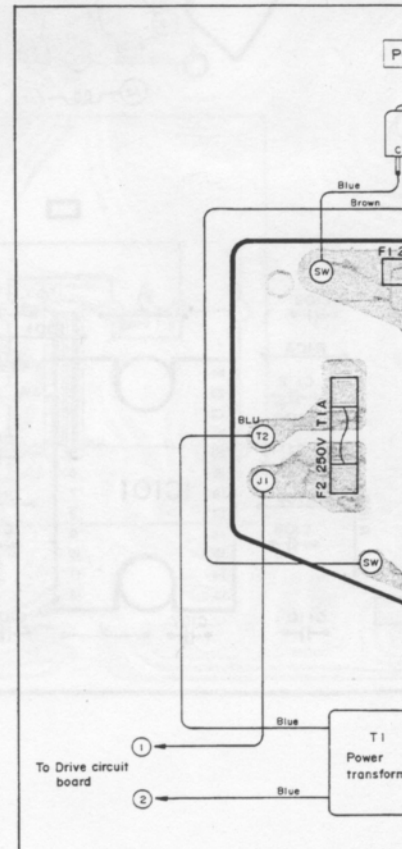


• Power source circ

* Product for Car



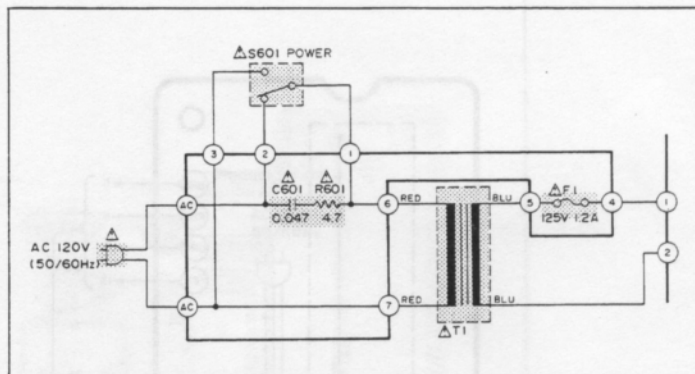
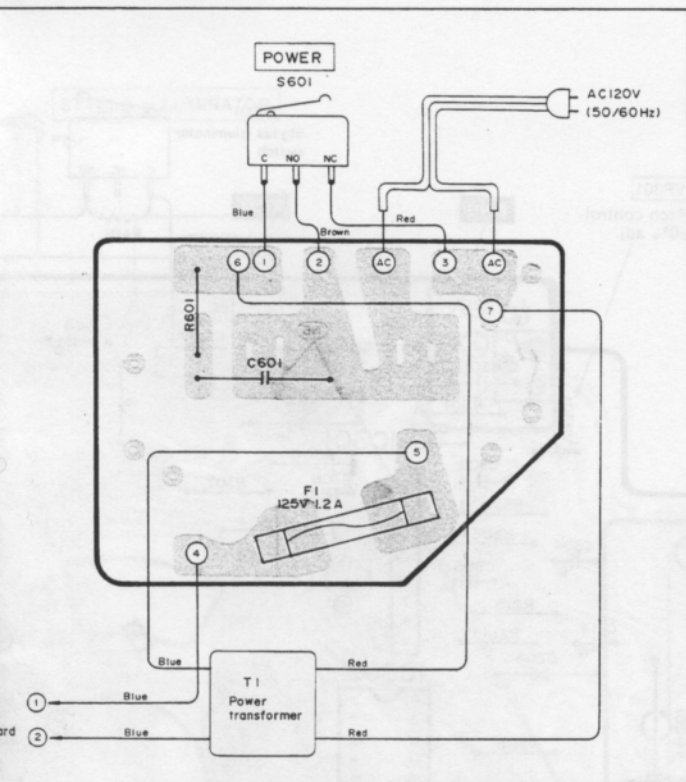
* Product for [E], [EF], [Ei], [XA]



SL-1200MK2/1210MK2

Power source circuit

* Product for Canada



• Product for MC only

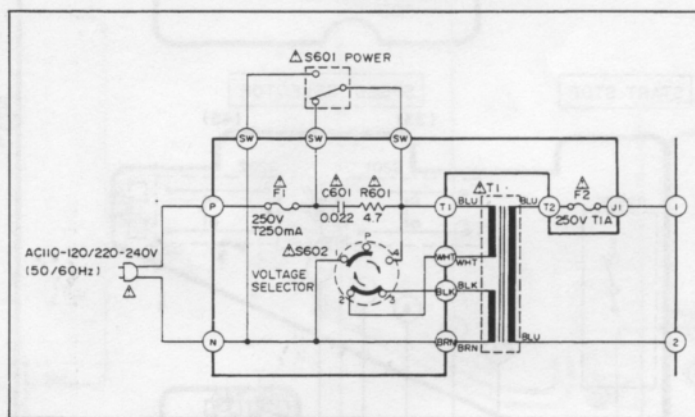
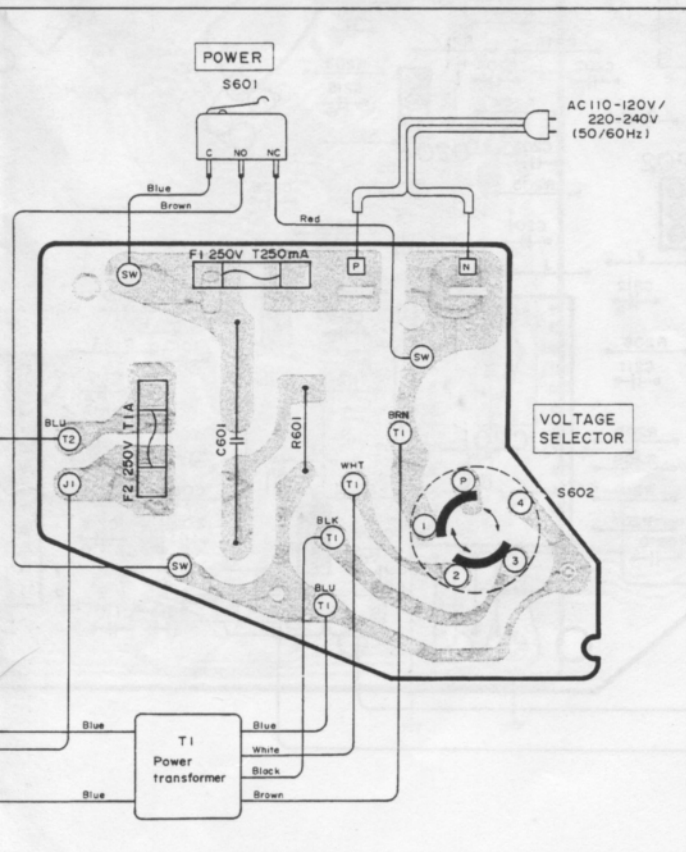
FUSE REPLACEMENT

 Symbol located near the fuse indicates fast operating type. For continued protection against fire hazard, replace with same type fuse. Refer to the symbol for fuse rating.

FUSIBLE REMPLACEMENT

 Le symbole qui se trouve près du fusible signifie un fusible à action rapide. Pour une protection continue contre les risques d'incendie, n'utiliser que des fusibles du même type. Se rapporter au symbole pour la valeur des fusibles.

Product for [E], [EK], [XL], [EG], [EB], [EH]
[EF], [Ei], [XA], [PA], [PE] and [PC] areas



1

2

3

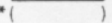
4

5

■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

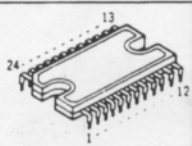
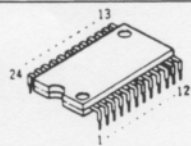
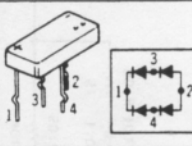
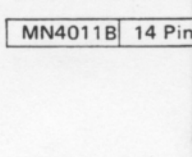
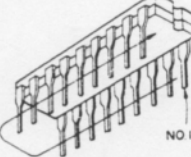
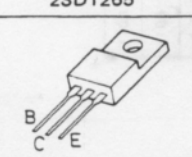
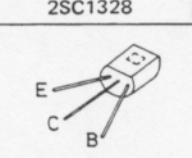
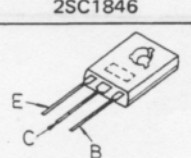
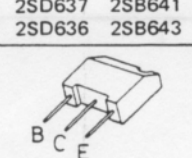
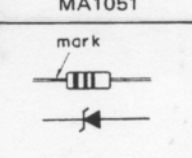
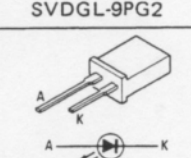
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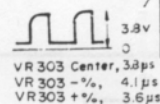
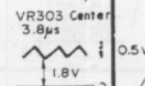
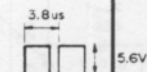
1. **S201, 202** : Speed selector switch.
2. **S203** : Start/stop switch.
3. **S301** : Pitch control reset switch in "off" position.
4. **S401** : Stylus illuminator switch in "off" position.
5. **S601** : Power switch in "on" position.
6. **S602** : Voltage selector in "220 - 240" position.
7. The voltage value, and waveforms are the reference voltage values of this unit measured by DC electronic voltmeter (high-impedance) and oscilloscope on the basis of chassis. Therefore, the voltage value and waveform may include some error due to the internal impedance of the tester or the measuring set.
 *  is the voltage when turntable is in stop.
 *  is the voltage when turntable is in rotation. (at 33 rpm)
8.  +B voltage lines.
9. Important safety notice.
 Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
10. The part No. of diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. with  mark the production part No. are different from the replacement part No. Therefore, when placing an order for replacement part, please use the part No. in the replacement parts list.

IMPORTANT SAFETY NOTICE

The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

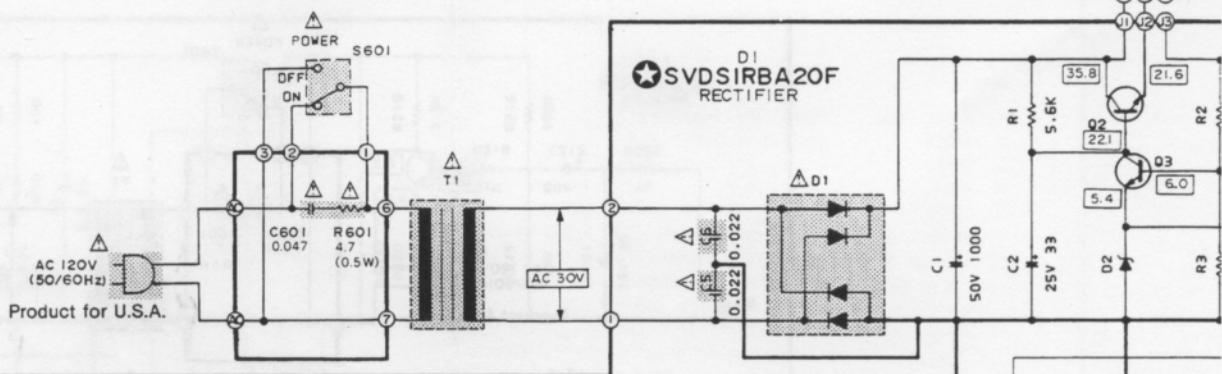
• Terminal guide of transistors, diodes and IC's

AN6675 	AN6680 	AN6682 	SVDS1RBA20F 
MN4011B 14 Pin 	2SD1265 	MA150 	
2SC1328 	2SC1846 	2SD637 2SB641 2SD636 2SB643 	MA1051 
SVDPR3902S-9 SVDSLH54VT3 	SVDGL-9PG2 		

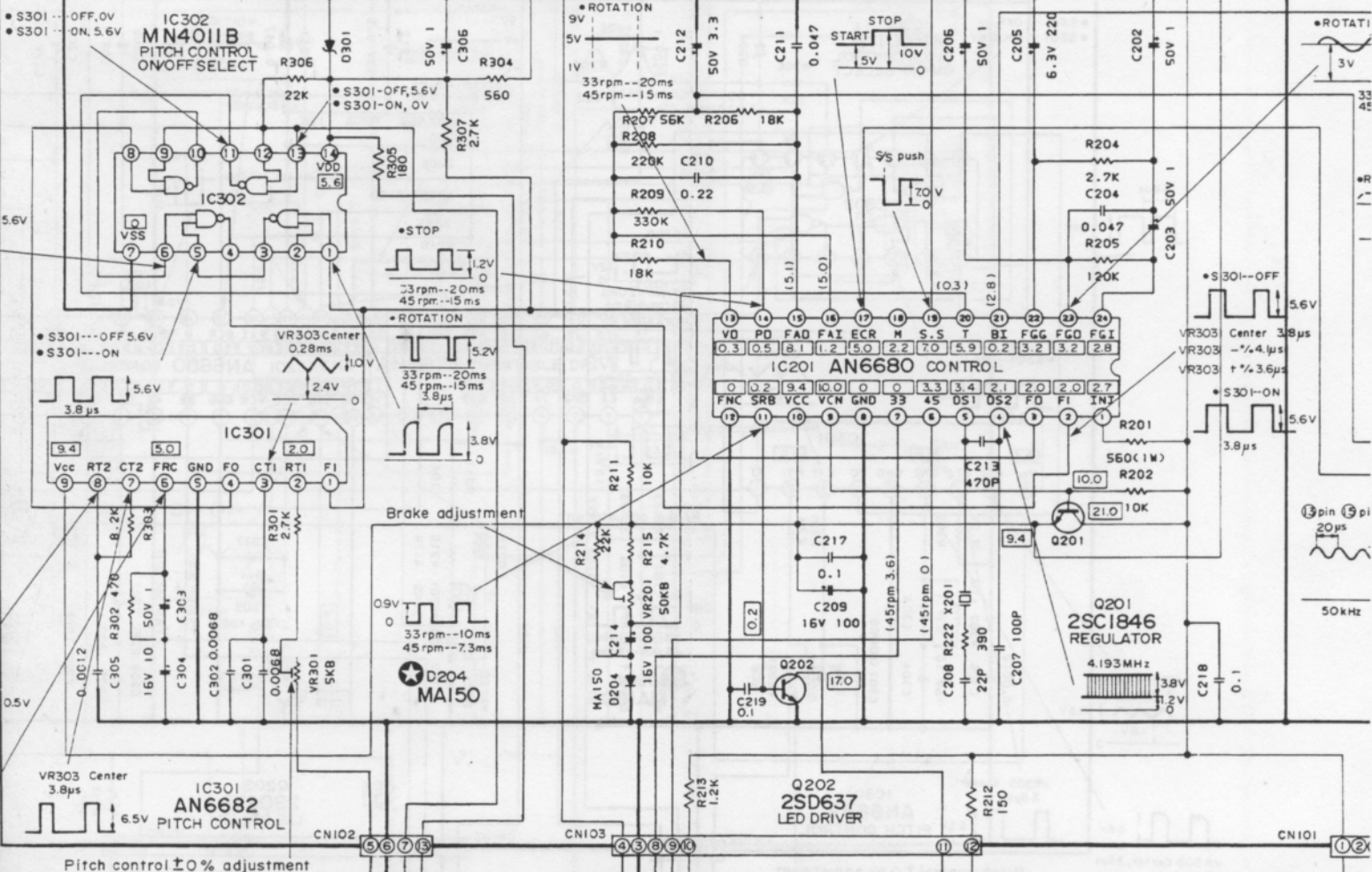
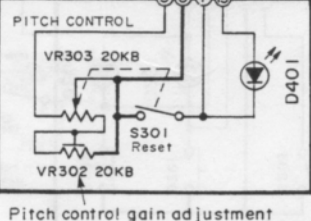


SV
PITC

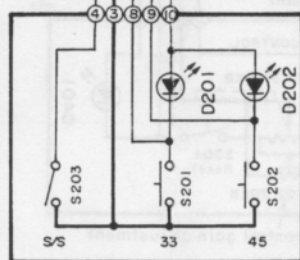
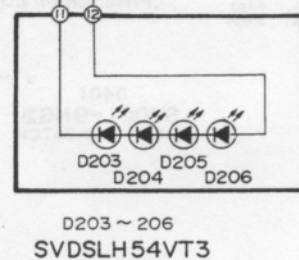
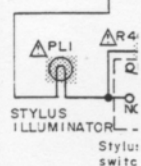
POWER SOURCE CIRCUIT

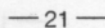


Product for U.S.A.

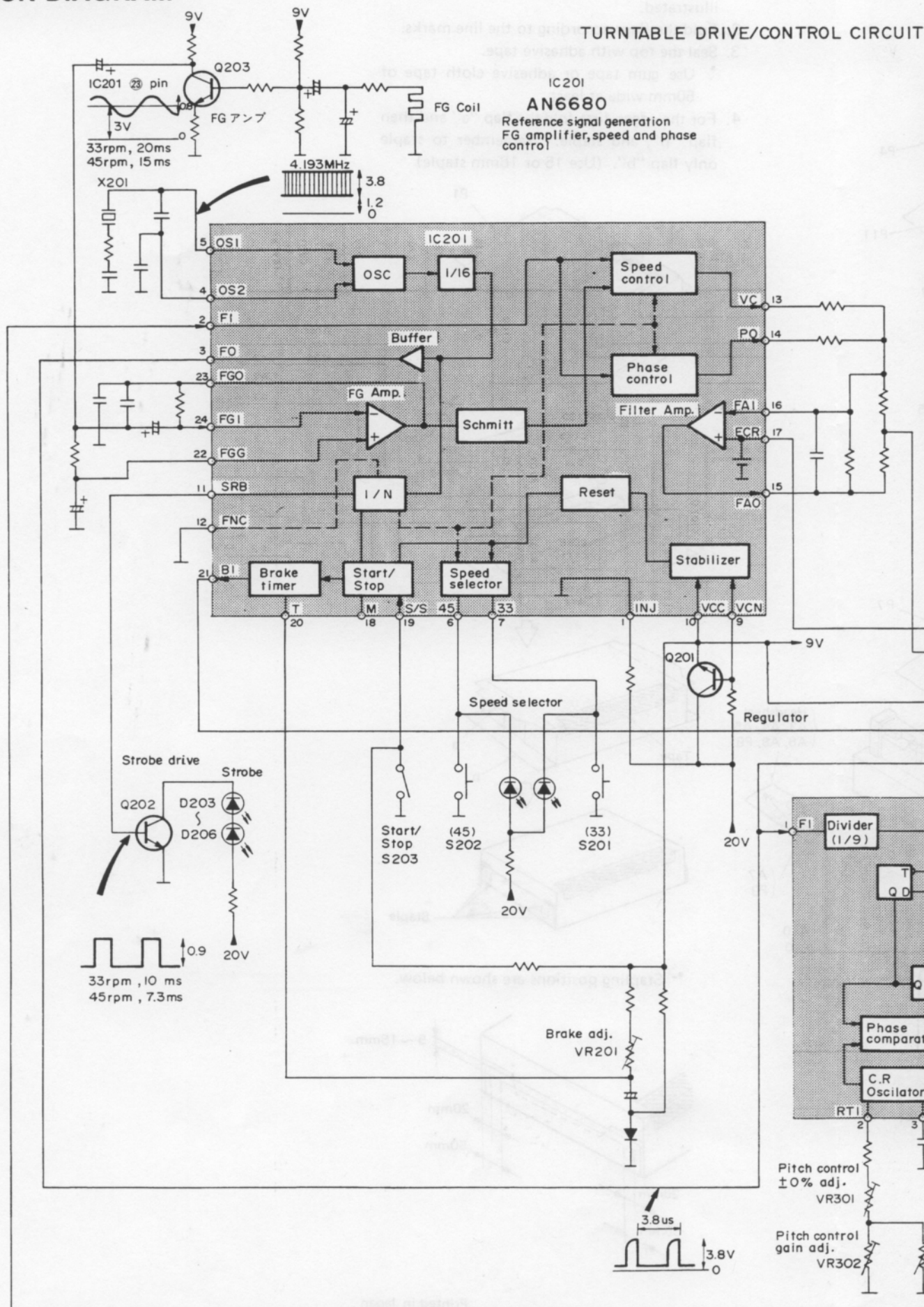
D301
MA1051M
5.1V ZENERD401
SVDGL-9NG2
PITCH INDICATOR

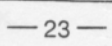
Pitch control gain adjustment

D201,202
SVDPR3902S-9
SPEED INDICATORD203 ~ 206
SVDSLH54VT3
STROBESTYLUS ILLUMINATOR
Stylus switch

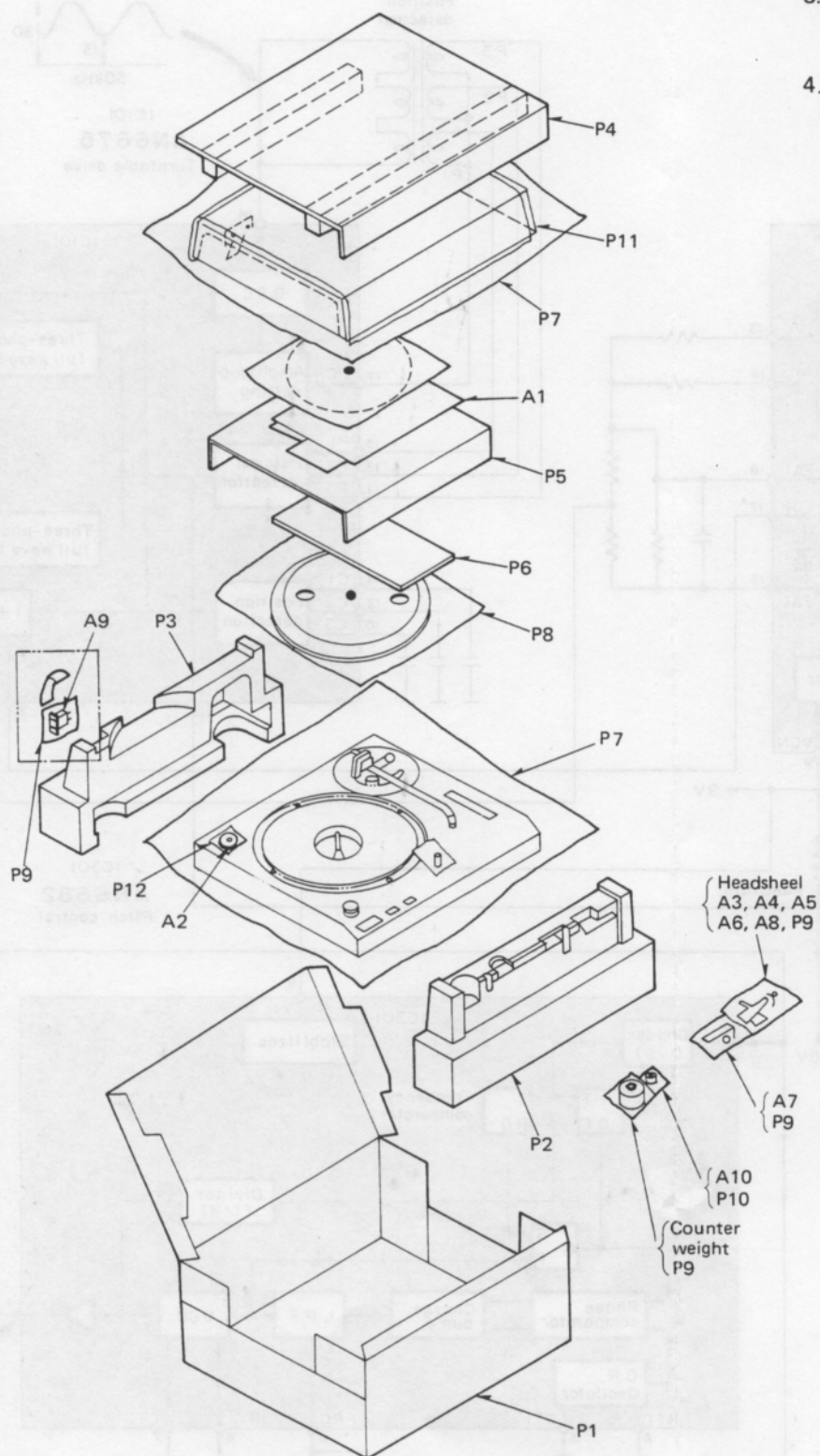


■ BLOCK DIAGRAM

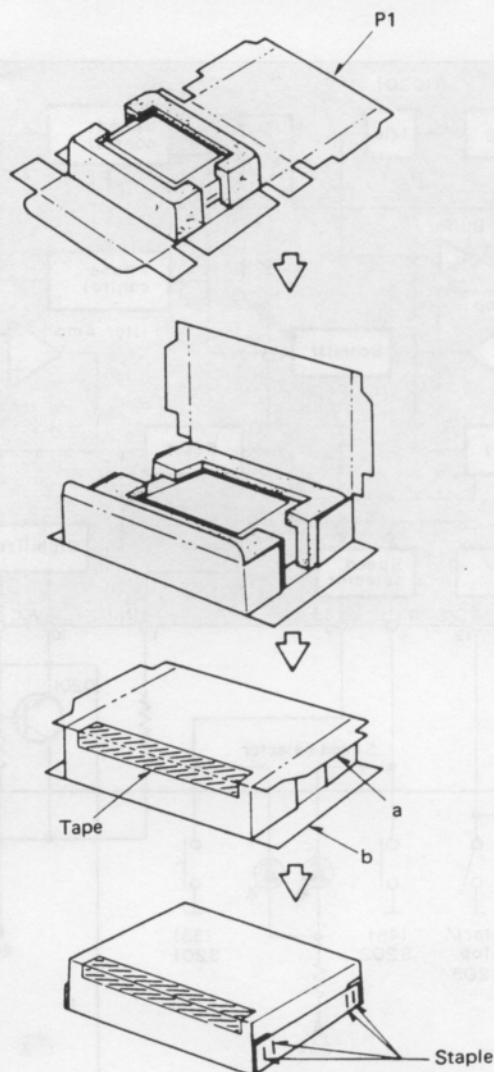




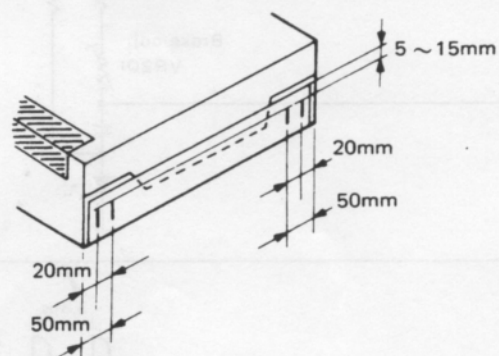
■ PACKING



1. Place the unit (with cushions attached) as illustrated.
2. Fold the flaps according to the line marks.
3. Seal the top with adhesive tape.
* Use gum tape or adhesive cloth tape of 50mm wide at least
4. For the edges, first fold the flap "a" and then flap "b", and staple. Remember to staple only flap "b". (Use 15 or 16mm staple)



* Stapling positions are shown below.



Service Manual

Turntable System

SL-1210MK2

[XG], [E]

Areas

- * [XG] is available in European.
- * [E] is available in Scandinavia.

For additional information, Please refer to the service manual for Model No. SL-1200MK2 [XG, XA, XGB, XAL, E]

- Notes:**
- * This service manual included only the change of the SL-1200MK2 [XG, XA, XGB, XAL, E] service manual (ORDER NO. SD7909-1622)
 - * When servicing model SL-1210MK2 [XG, E], this service manual and SL-1200MK2 (ORDER NO. 7909-1622) service manual should be used together.

CHANGES

■ REPLACEMENT PARTS LIST

Ref. No.	Change of Part No.		Part Name & Description	Per Set (Pcs.)	Remarks
	SL-1200MK2 [XG, XA, XGB, XAL, E]	SL-1210MK2 [XG, E]			
CABINET and CHASSIS PARTS					
10	SFAC122-01	SFAC124S01	Cabinet (Black)	1	○
35	SFSR4N4	SFSR4N4	Clamper, AC Cord	1	
	SFHK040L [XAL] only				
36	SFUP025X01	SFUP025X01	Bracket, AC Cord	1	
	SFUP025-01 [XAL] only				
37	RJA23ZC	SJA88	AC Cord	1	
	QFC1208M [XAL] only				
42	SFKK122-03	SFKK124S01	Ornament, Pitch Control Volume	1	
55	SFNN122N01	SFNN124Q01 [XG]	Name Plate	1	○
	SFNN122L01 [XAL] only				
	SFNN122S01 [E] only	SFNN124S01 [E]	Name Plate	1	○
TONE ARM and ARM BASE PARTS					
62	SFPAM18201K	SFPAM18202K	Tone Arm Ass'y	1	○
82	SFGK132-01	SFGK133S01	Cap, Rubber	1	
PACKING PARTS					
P1	SFHP122M01	SFHP124S01	Carton Box	1	○

■ REPLACEMENT PARTS LIST (Mechanical)

- Notes: 1. Part numbers are indicated on most mechanical parts.
Please use this number for parts orders.
2. Δ indicates that only parts specified by manufacturer be used for safety.

Ref. No.	Part No.	Part Name & Description
CABINET and CHASSIS PARTS		
1	SFAD122-01A	Dust Cover
2	SFTG172-01	Turntable Mat
3	SFTE172-01Z	Turntable
4	SFUM172-05	Cover, Turntable
5	SFMGQ20-01	Cover, Stater Frame Ass'y
6	SFMG520-31A	Stater Frame
7	SFMZ172-01E	FG Detector Coil Ass'y
8	SFMZQ20-01A	Shaft, Stater Frame Ass'y
9	SFUP122-12	Plate, Shield
10	SFAC124S01	Cabinet
11	SFUM172-04	Ornament, Stylus-illuminator
12	SFKT122-01	Knob, Power Switch
13	SFKK122-01E	Case, Strobe-illuminator
14	SFKT015-06	Knob, Start/Stop Switch
15	SFQA122-01	Spring, Start/Stop Knob
16	SFUM122-01	Base, Operation
17	SFKT015-01E	Knob, Speed Selector (33-1/3 r.p.m.)
18	SFDJ122-02E	Connector, 7-PIN
19	SFGZ122-01	Spacer, Rubber (Speed Selector)
20	SFYB5-32	Ball, Switch Cam
21	SFQA520-01	Spring, Switch Cam
22	SFUM122-03	Cam, Switch
23	SFUM015-11	Spacer, LED
24	SFKK172-01	Cover, Lamp
25	SFXB122-02	Boss, Drive
26	SFQA172-01	Spring, Drive Boss
27	SFXJ172-01	Pin, Lock Canceler
28	SFUP122-02E	Bracket, Stylus-illuminator
29	SFUP122-03	Plate, Lock Operation
30	SFDJ122-03E	Connector, 3-PIN
31	SFXO172-01	Pin, Guide
32	SFQA520-01	Spring, Lock Canceler Pin
33	SFQA001-02	Spring, Lock Operating Plate M'tg
34	SFXJ172-05	Pin, Lock Operating Plate M'tg
35	SFSR4N4	Clamper, AC Cord
36	SFUP025X01	Bracket, AC Cord
37	Δ SJA88	AC Cord
38	SFUP132-03	Bracket, Power Transformer
39	SFGC122-01	Cushion, Power Transformer
40	SFUP122-10	Spacer, Power Transformer
41	SFKT122-02	Knob, Pitch Control Volume
42	SFKK124S01	Ornament, Pitch Control Volume
43	SFUZ122-01	Shading Cloth, Pitch Control Volume
44	SFUP122-09	Holder, LED
45	SFUP122-01	Bracket, Pitch Control Volume
46	SFDJ122-01E	Connector, 4-PIN
47	SFUP122-13	Supporter, Bottom Base
48	SFAU122-01	Base, Bottom
49	SFUP122-05	Supporter (A), Hinge
50	SFUP122-04	Supporter (B), Hinge
51	SFUM170-07	Case, Hinge
52	SFGC122-02E	Audio Insulator
53	SFUP122-06	Supporter (C), Hinge
54	SFKT015-02E	Knob, Speed Selector (45 r.p.m.)
55 [XG]	SFNN124Q01	Name Plate
55 [E]	SFNN124S01	Name Plate
56	SFXO122-01	Pipe (A)
57	SFXO122-02	Pipe (B)
58	SFAT122-01A	Hinge Ass'y
STONE ARM and ARM BASE		
61	SFPCC31001K	Head Shell
62	SFPAM18202K	Tone Arm Ass'y
63	SFPWG17201K	Balance Weight Ass'y
64	SFPRT18201K	Lift Ass'y
65	SFPZB17202	Knob, Arm Base Lock
66	SFQA829-03	Spring, Lift Ass'y
67	SFPAB13202	Knob, Arm Lift
68	SFPJL18202K	Oil Damper
70	SFPZB12203	Plate, Arm Base Cover
71	SFUM170-06	Spacer, Phono Cord
72	SFPZB12204	Clamper, Phono Cord
73	SFPAB18201K	Tone Arm Fixing Plate Ass'y

Ref. No.	Part No.	Part Name & Description
74	SFPZB12201K	Plate, Position Fix
75	SFDH028-01	Phono Cord
76	SFEL028-01E	Ground Wire
77	SFPRT17201K	Arm Rest
78	SFPKD17203	Arm Base
79	SFPKB17201S	Ring, Arm Base Operation
80	SFPKD12201	Bracket, Arm Base
81	SFPAB17206	Knob, Anti-skate Force Control
82	SFGK133S01	Cap, Rubber
SCREWS, WASHERS and CIRCLIPS		
①	XTN3+8BFZ	Screw
②	SFXGQ20-02	Screw
③	XTN3+8B	Screw
④	XTN26+6B	Screw
⑤	XTN4+10B	Screw
⑥	XWA4B	Washer
⑦	XUC3FT	Circlip
⑧	XUC2FT	Circlip
⑨	XUC25FT	Circlip
⑩	SFXW910J02	Washer
⑪	XTN3+40BFZ	Screw
⑫	XSN3+10BVS	Screw
⑬	XWE3F12FZ	Washer
⑭	XTN3+25BFZ	Screw
⑮	SFXW122-01	Washer
⑯	XWE3E10	Washer
⑰	SFPEW1100	Washer
⑱	SFPEW11003	Washer
⑲	XSN3+8S	Screw
⑳	SFXG172-01	Screw
㉑	XTV3+8BFN	Screw
㉒	XTN3+10B	Screw
㉓	XTN2+10B	Screw
㉔	XSN17+3FY	Screw
㉕	XSN3+14S	Screw
㉖	SFXW172-04	Washer
㉗	XUB14FT	Circlip
㉘	SFUZ172-05	O Ring
㉙	XTN3+6B	Screw
㉚	XSN3+6S	Screw
㉛	XWA3BFZ	Washer
㉜	XWA3B	Washer
㉝	XWG3	Washer
㉞	SFXG829-1	Screw
㉟	XUC5FT	Circlip
㊱	XTW3+6B	Screw
㊲	XTV3+6BFN	Screw
㊳	XWE4A10EW	Washer
㊴	XTN3+25B	Screw
㊵	XYN3+C6FZS	Screw
㊶	XSN3+12BVS	Screw
㊷	SFPEW17201	Washer
㊸	XWG26	Washer
ACCESSORIES		
A1 [XG]	SFNU122X01	Instruction Book
A1 [E]	SFNU122S01	Instruction Book
A2	SFWE010	Adaptor, 45 r.p.m.
A3	SFPEN3302	Nut, Cartridge
A4	SFPEW9601	Washer, Cartridge
A5	SFCZV8801	Screw, Cartridge
A6	SFPEV9801	Screw, Cartridge
A7	SFKO135-01	Overhang Gauge
A8	SFPZB3501	Shell Weight
PACKINGS		
P1	SFHP124S01	Carton
P2	SFHH122-01	Pad, Front
P3	SFHH122-02	Pad, Rear
P4	SFHD122-01	Pad, Top
P5	SFHD122-02	Pad, (A), Turntable
P6	SFHD122-03	Pad, (B), Turntable
P7	SFYH60X60	Polyethylene Cover, Turntable Unit and Dust Cover
P8	SFYH40X45	Polyethylene Cover, Turntable

Service Manual

SL-1200MK2

Turntable System SL-1200MK2 (XG), (XA), (XGB) (XAL), (E)



- * The model SL-1200MK2 (XG) is available in European only.
- * The model SL-1200MK2 (XA) is available in Asia, Latin America, Middle East and Africa only.
- * The model SL-1200MK2 (XGB) is available in Belgium only.
- * The model SL-1200MK2 (XAL) is available in Australia only.
- * The model SL-1200MK2 (E) is available in Scandinavia only.

SPECIFICATIONS

(Specifications subject to change without notice. Weight and dimensions shown are approximate.)

General

Power supply: ~110–120/220–240, 50 or 60 Hz
Power consumption: 13.5 W
Dimensions: 45.3 x 16.2 x 36 cm
 (W x H x D) (17-27/32" x 6-19/64" x 14-11/64")
Weight: 12.5 kg (27.6 lb)

Turntable section

Type: Quartz direct drive
 Manual turntable
Drive method: Direct drive
Motor: Brushless DC motor
Turntable platter: Aluminum diecast
 Diameter 33.2 cm (13-5/64")
 Weight 2 kg (4.4 lb)
Turntable speeds: 33-1/3 rpm and 45 rpm
Starting torque: 1.5 kg.cm (1.3 lb.in)
Build-up characteristics: 0.7 s. from standstill to 33-1/3 rpm
Braking system: Electronic brake
Wow and flutter: 0.01% WRMS*
 0.025% WRMS (JIS C5521)
 ±0.035% peak (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.

Rumble: -56 dB (IEC 98A Unweighted)
 -78 dB (IEC 98A Weighted)

Tonearm section

Type: Universal
Effective length: 230 mm (9-1/16")
Arm height adjustment range: 0–6 mm
Overhang: 15 mm (19/32")

Effective mass: 12 g (without cartridge)
Offset angle: 22°
Friction: Less than 7 mg (lateral, vertical)
Tracking error angle: Within 2°32' (at the outer groove of 30 cm (12") record)
Stylus pressure Within 0°32' (at the inner groove of 30 cm (12") record)
 0–2.5 g

adjustment range:
Applicable cartridge weight range: 6–10 g
 13.5–17.5 g (including headshell)

(with auxiliary weight): 9.5–13 g
 17–20.5 g (including headshell)
(with shell weight) 3.5–6.5 g
 11–14 g (including headshell)

Headshell weight: 7.5 g

Cartridge section

Model No. EPC-207C
Type: Moving magnet
Frequency response: 20 Hz to 25 kHz
 20 Hz to 15 kHz ±2 dB
Output voltage: 3 mV at 1 kHz
 5 cm/s. zero to peak lateral velocity
 [8.5 mV at 1 kHz 10 cm/s. zero to peak 45° velocity (DIN 45500)]
Channel separation: 25 dB at 1 kHz
Channel balance: Within 2 dB at 1 kHz
Compliance (dynamic): 10 x 10⁶ cm/dyne at 100Hz
Stylus pressure: 1.75 ± 0.25 g (17.5 ± 2.5 mN)
Load impedance: 47 kΩ to 100 kΩ
Weight: 5.6 g (cartridge only)
Replacement stylus: EPS-207ED
 (Elliptical stylus)

TECHNISCHE DATEN

Allgemeine Daten

Stromversorgung: ~110-120/220-240 V, 50/60 Hz

Wechselstrom

Leistungsaufnahme: 13,5 W

Abmessungen (B x H x T): 45,3 x 16,2 x 36 cm

Gewicht: 12,5 kg

Plattenspieler

Typ: Manueller Quarz-Direktantrieb

Plattenspieler

Antrieb: Direktantrieb

Motor: Kollektorloser Gleichstrommotor

Plattenteller: Aluminium-Spritzguß

Durchmesser 33,2 cm

Gewicht 2 kg

Plattenteller-Drehzahlen: 33-1/3 und 45 U/min

Anlaufdrehmoment: 0,7 sec vom Stillstand auf 33-1/3 U/min

Bremssystem: Elektronische Bremse

Gleichlaufschwankungen: 0,01% WRMS*

0,25% WRMS (JIS C5521)

±0,035% Spitze (IEC 98A bewertet)

Diese Nennleistung bezieht sich auf das Laufwerk-Bauteil allein, ausschließlich Einflüsse von Schallplatte, Tonabnehmer oder Tonarm, aber einschließlich Plattenteller. Gemessen anhand von Signalen vom eingebauten Frequenzgenerator des Motorbauteils.

Rumpel-Geräuschspannungsabstand: -56 dB (IEC 98A unbewertet)
-78 dB (IEC 98A bewertet)

Tonarm

Typ: Universal-Tonarm

Effektive Länge: 230 mm

Tonarmhöhe-Einstellbereich: 0-6 mm

Überhang: 15 mm

Effektive Masse: 12 g (ohne Tonabnehmer)

Kröpfungswinkel: 22°

Lagerreibung: Weniger als 7 mg (horizontal, vertikal)

Auflagekraft-Einstellbereich: 0-2,5 g

Zulässiger Ton-abnehmer-Gewichtsbereich: 6-10 g
13,5-17 g (einschließlich Tonarmkopf)

(mit Zusatz-Gegengewicht): 9,5-13 g
17-20,5 g (einschließlich Tonarmkopf)

Gewichtsbereich (mit Zusatzgewicht): 3,5-6,5 g

Tonarmkopf-Gewicht: 11-14 g (einschließlich Tonarmkopf)

Tonarmkopf-Gewicht: 7,5 g

Tonabnehmer

Modell-Nummer: EPC-207C

Typ: Magnetischer Tonabnehmer

Frequenzgang: 20 Hz bis 25 kHz

20 Hz bis 15 kHz ±2 dB

3 mV bei 1 kHz

Ausgangsspannung: 5 cm/s, Null-zu-Spitze, lateral

[8,5 mV bei 1 kHz 10 cm/s, Null-zu-Spitze, 45° (DIN 45500)]

25 dB bei 1 kHz

Innerhalb 2 dB bei 1 kHz

Kanaltrennung:

Kanalabweichung:

Nachgiebigkeit

(dynamisch): 10 x 10⁶ cm/dyn bei 100 Hz

Auflagekraft: 1,75 ±0,25 g (1,75 ±2,5 mN)

Impedanz: 47 kΩ bis 100 kΩ

Gewicht: 5,6 g (ohne Tonarmkopf)

Ersatznadel: EPS-207ED

(Elliptische Nadel)

Änderungen der technischen Daten vorbehalten.

Die angegebenen Gewichts- und Abmessungsdaten sind ungefähre Werte.

SPECIFICATIONS

Généralités

Alimentation: Alternatif 110-120/220-240V, 50 ou 60 Hz

Consommation: 13,5W

(L x H x P) Poids: 12,5 kg

Platine de lecture

Typ: Entaînement direct à quartz

Platine manuelle

Système d'entraînement:

Entraînement direct

Moteur: Moteur C.C. sans balai

Plateau de lecture: Aluminium moulé sous pression

Diamètre 33,2 cm

Poids 2 kg

Vitesses de rotation: 33-1/3 et 45 t/p.m

Couple de démarrage: 1,5 kg.cm

Caractéristiques

d'augmentation: 0,7 s (rotation de 90°) à

33-1/3 t/p.m.

Système de freinage: Frein électronique

Pléurage et scintillement: 0,01% de valeur efficace*

0,025% de valeur efficace (JIS C5521)

±0,035% de crête (IEC 98A Pondéré)

* Ce régime nominal se rapporte à l'ensemble du tournedisqueseul, excluant les effets du disque, de la cellule pick-up ou de bras de lecture, mais comprenant le plateau. Mesuré par l'obtention d'un signal provenant du générateur de fréquences incorporé de l'ensemble du moteur.

Ronflement: -56 dB (IEC 98A Non pondéré)

-78dB (IEC 98A Pondéré)

Bras de lecture

Typ: Bras de lecture universel

Longueur effective: 230 mm

Portée du réglage de la

hauteur du bras: 0-6 mm

Porte-à-faux: 15 mm

Masse réelle: 12 g (sans la cellule pick-up)

Angle d'erreur de piste: En deçà de 2°32' au sillon extérieur

d'un disque de 30 cm

En deçà de 0°32' au sillon intérieur

d'un disque de 30 cm

Angle de décalage:

22°

Frottement:

Moins de 7 mg (latéral et vertical)

Plage de réglage de la

pression d'appui:

0-2,5 g

Gamme du poids de la

cellule pick-up

utilisable:

6-10 g

13,5-17,5 g

(y compris la coque porte-cellule)

(avec contrepoids

auxiliaire)

9,5-13 g

17-20,5 g

(y compris la coque porte-cellule)

(avec contrepoids de

la cellule)

3,5-6,5 g

11-14 g

(y compris la coque porte-cellule)

Poids de la cellule:

7,5 g

Cellule pick-up

No. du modèle: EPC-207C

Type: Aimant mobile

Réponse en fréquence: 20 Hz à 25 kHz

20 Hz à 15 kHz ±2dB

3 mV à 1 kHz; 5 cm/s. zéro à

vitesse latérale de crête

[8,5 mV à 1 kHz 10 cm/s., zéro à

vitesse 45° de crête (DIN 45500)]

25 dB à 1 kHz

Séparation de canal: En deçà de 2 dB à 1 kHz

Equilibrage des canaux: 10 x 10⁶ cm/dyne à 100 Hz

Elasticité (dynamique):

Pression de la pointe

de lecture:

1,75 ±0,25 g (1,75 ±2,5 mN)

Impédance de charge:

47 kΩ to 100 kΩ

Poids: 5,6 grammes (cellule seule)

Pointe de lecture de

remplacement:

EPS-207ED

(Forme elliptique)

Les spécifications sont susceptibles d'être modifiées sans préavis.

Les poids et les dimensions donnés sont approximatifs.

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■ DISASSEMBLY PROCEDURE

How to remove panel cover

1. Remove head shell and turntable.
2. Secure arm with arm clamp.
3. Remove 5 screws **A** of the panel cover as shown in Fig. 1.

How to remove stater frame coil and F.G detector coil

4. Remove 3 connectors **B** and 2 read wires **C** from power transformer as shown in Fig. 2.
5. Remove 3 screws **D** of the drive circuit board and 3 screws **E** of the stater frame cover as shown in Fig. 2.
6. Disconnect 18 soldered parts **F** of the stater coil and 4 soldered parts **G** of the F.G detector coil as shown in Fig. 3.
7. Remove 3 screws **H** of the stater frame ass'y as shown in Fig. 3.

How to remove bottom base ass'y

8. Remove 4 audio insulators. (Counterclockwise rotation)
9. Remove 17 screws and spacer **I** as shown in Fig. 4.
10. Remove 11 screws **J** as shown in Fig. 4.

How to remove stylus-illuminator lamp

11. Remove 2 screws **K** of the stylus-illuminator lamp ass'y as shown in Fig. 5.
12. Remove 1 screw **L** as shown in Fig. 6.

How to remove neon-illuminator L.E.D.

13. Remove 4 screws **M** as shown in Fig. 5.
14. Remove 1 circlip **N** and switch cam **O** as shown in Fig. 5.
15. Remove strobo-illuminator case.

How to remove tone arm

16. Remove 4 screws **P** of the arm base cover as shown in Fig. 5.
17. Remove 2 screws **Q** of the phono cord clamber as shown in Fig. 5.
18. Remove phono cord clamber as shown in Fig. 7.
19. Remove 2 screws **R** of the phono cord p.c.b. as shown in Fig. 8.
20. Remove 2 screws **S** as shown in Fig. 8.
21. Remove 2 screws **T** of the silicon oil dumper as shown in Fig. 8.
22. Remove 3 screws **U** as shown in Fig. 8.
23. Remove 2 screws **X** of the tone arm as shown in Fig. 9.

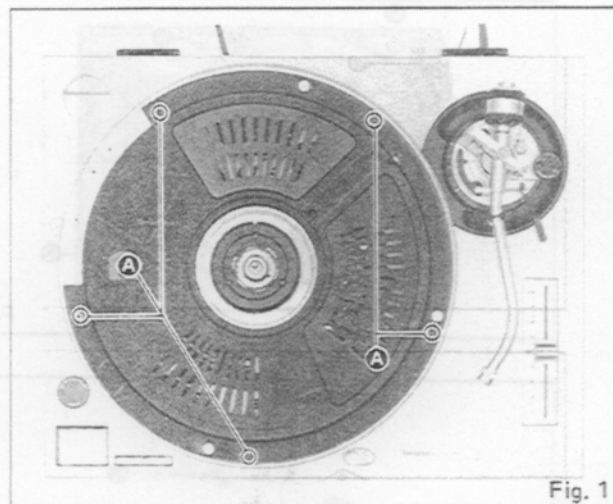


Fig. 1

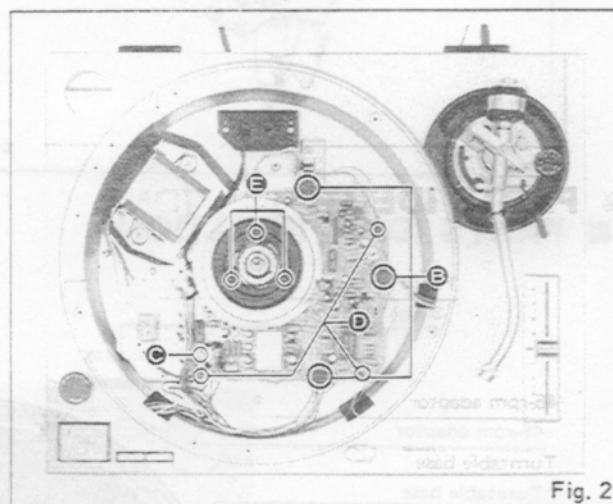


Fig. 2

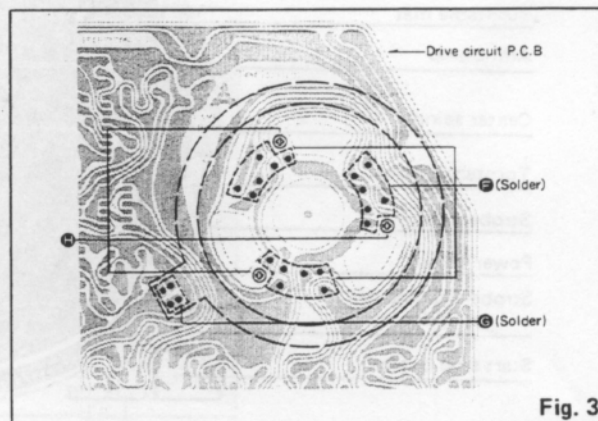


Fig. 3

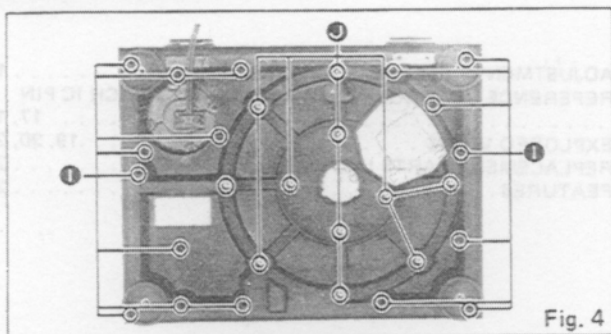


Fig. 4

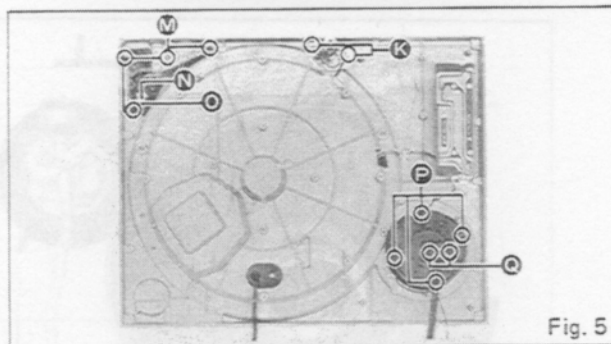


Fig. 5

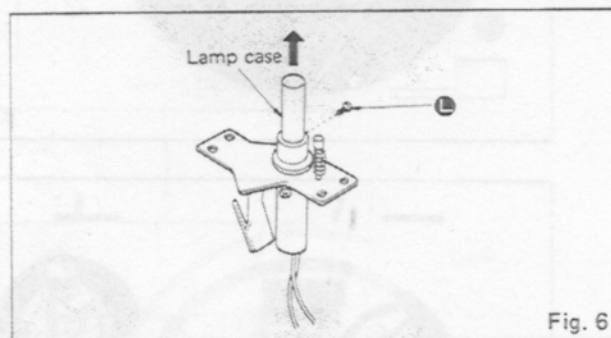


Fig. 6

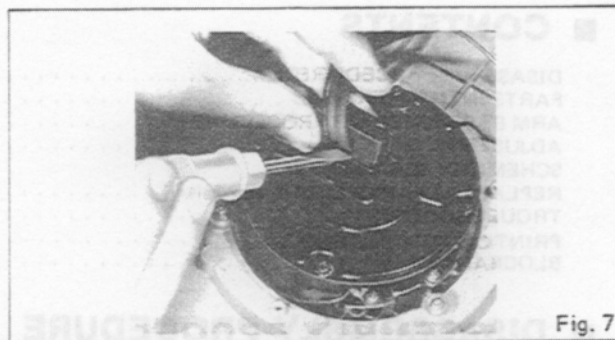


Fig. 7

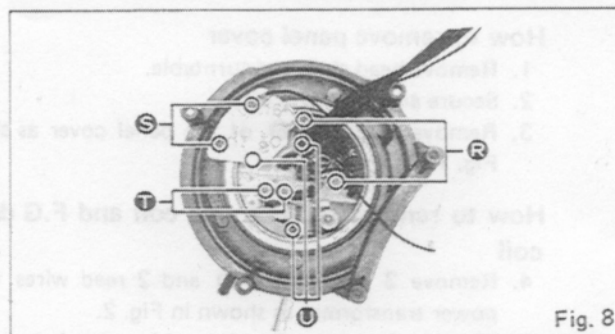


Fig. 8

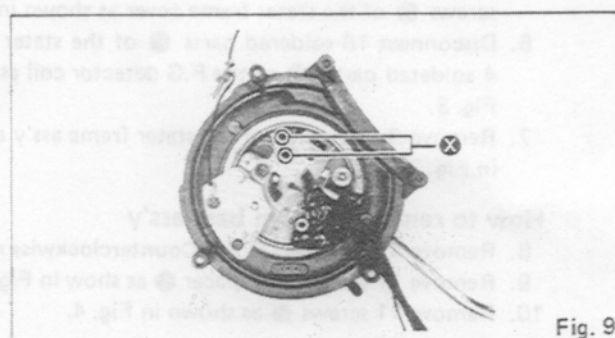


Fig. 9

■ PARTS IDENTIFICATION

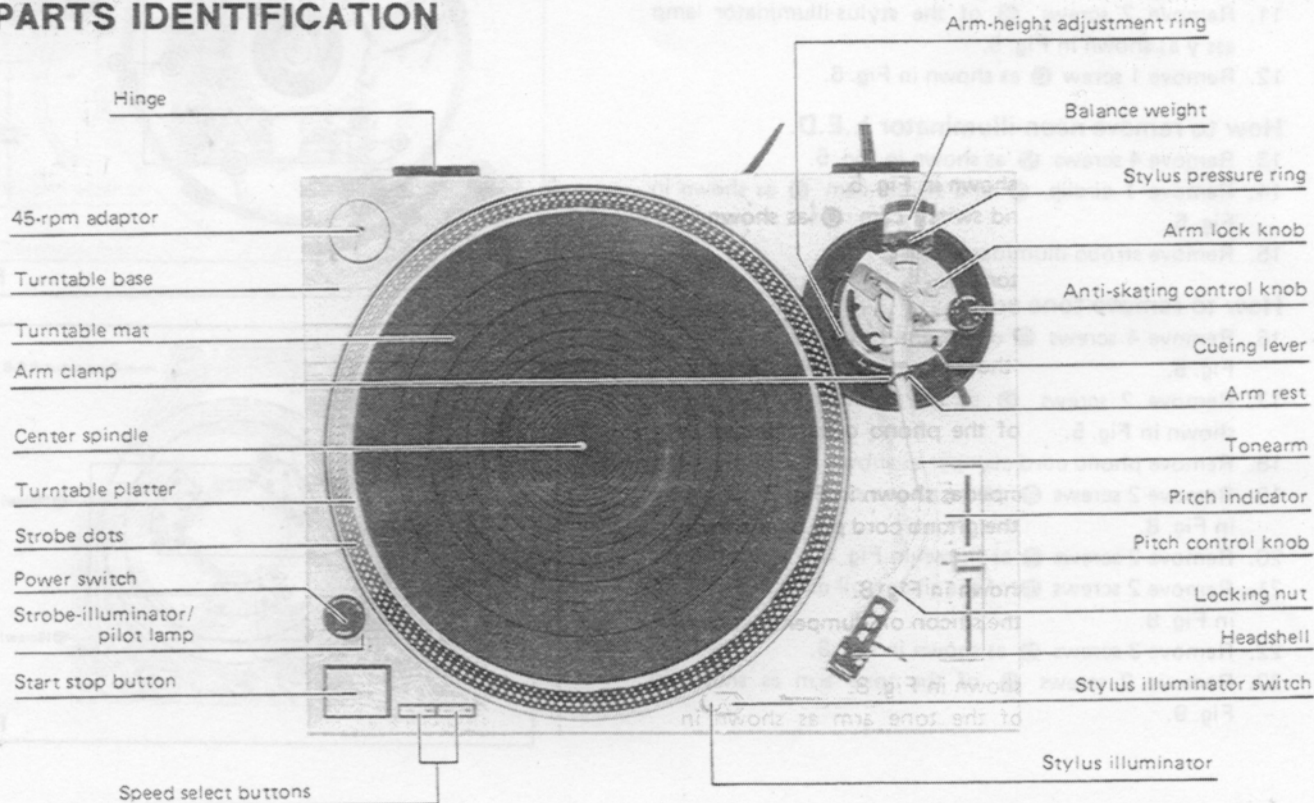


Fig. 10

■ ARM BASE ASSEMBLING PROCEDURE

1. Attach the control ring to the arm base seat. (The control ring should be rotated counterclockwise.)
2. Completely tighten the control ring, and then loosen it 1.5~2.5 turns to set the scale to "3". (See Fig. 11)

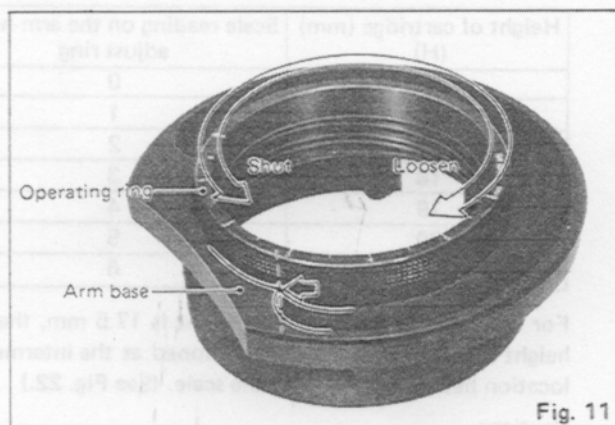


Fig. 11

3. Hold the arm base and set the red line mark on the arm base to the scale near "2", then turn the arm base clockwise. (See Fig. 12)

Note:

Take care not to allow deflection of the predetermined positions of the control ring and arm base seat.

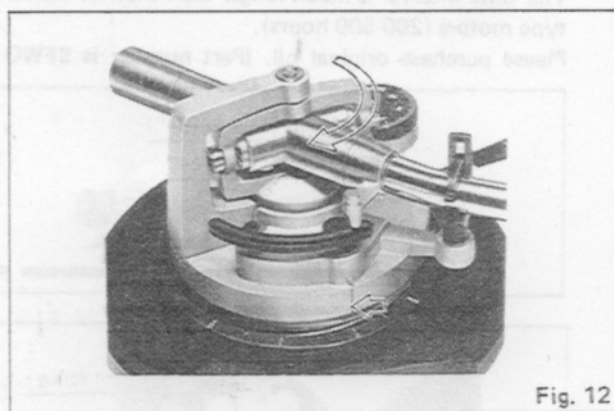


Fig. 12

4. Adjust the arm base so that the red line mark on the arm base is set to the scale "3" of the control ring. Next, secure the positioning base plate with two setscrews. (See Fig. 13)

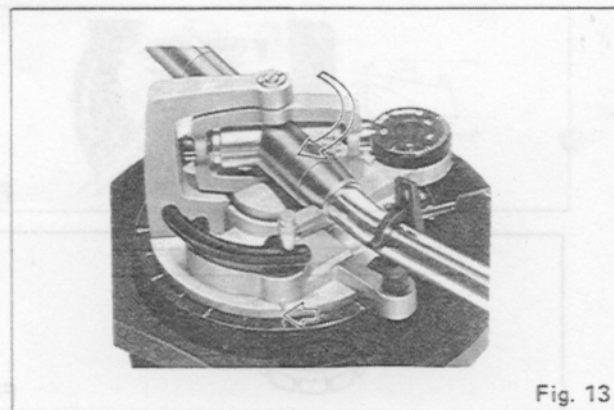


Fig. 13

5. Rotate the control ring and make sure that the arm base shifts within the range of 0~6mm. (See Figs. 14 and 15) If it does not shift within the specified range, the arm base position is deflected. In that case, disassemble the parts and check as specified in step 3.



Fig. 14



Fig. 15

■ ADJUSTMENT OF CANCELLER SPRING POSITION

If the arm body or PU base plate is replaced, be sure to set the canceller knob to "0.5" and make sure that the canceller spring is in contact with the arm shaft. (See Fig. 16)

If the canceller spring is deflected, adjust it as follows:

1. Clamp the arm on the rest.
2. Set the canceller knob to "0.5".
3. Remove the PU base plate, adjust gear A so that the canceller spring is in the position of Fig. 16.
4. Mount the PU base plate onto the arm base and check the spring position.

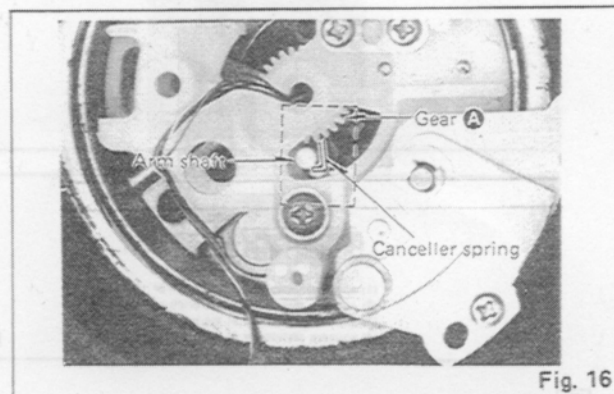


Fig. 16

■ ADJUSTMENTS

Pitch control (fine adjustment of speed) (See Figs. 18 and 19.)

When the pitch control knob is located at the center of the position after turning on the power, the green LED indicator is lit showing the operating condition for the predetermined speed (either 33-1/3 or 45 rpm). The pitch control is variable in a range of about $\pm 8\%$

Adjustment should be done on the basis of indicator scale. Figures on the indicator show approximate percentages for variable pitch control.

When the strobe dots in 4 stages marked at the peripheral edge of the turntable appear to be stationary, variation of individual pitches is shown. (See Fig. 19.)

Note:

The strobe-illumination of this unit employs a strobe-illuminator LED synchronized with the precise quartz frequency.

For fine adjustment of the turntable speed, be sure to effect the adjustment according to the LED illumination.

The LED illumination is not synchronized with fluorescent lamps.

Adjustment of arm-lift height (See Figs. 20 and 21.)

The arm-lift height (distance between the stylus tip and record surface when cueing lever is raised) has been adjusted at the factory before shipping to approximately 8-13mm.

If the clearance becomes too narrow or too wide, turn the adjustment screw clockwise or counterclockwise, while pushing the arm lift down.

Clockwise rotation

—distance between the record and stylus tip is decreased.

Counterclockwise rotation

—distance between the record and stylus tip is increased.

Note:

As the adjusting screw has hexagonal head, be sure to make the adjustment while depressing the arm lift, or the screw will not move freely.

Also be sure that the hexagonal head retracts correctly into the arm lift when the latter is released.

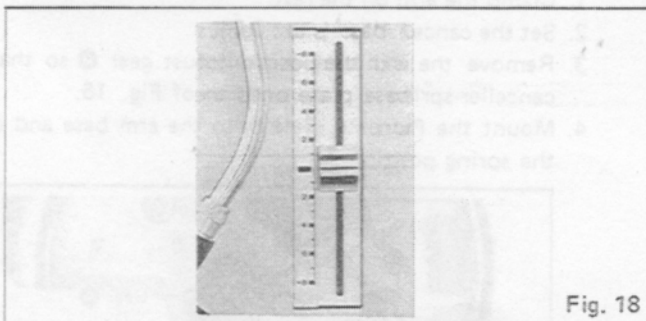


Fig. 18

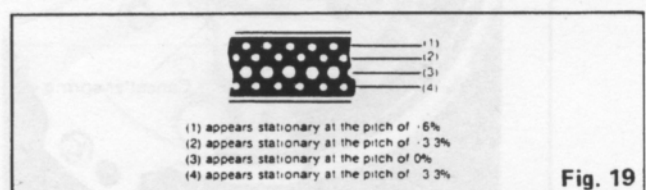


Fig. 19

Adjustment of the tonearm height (See Fig. 22.)

The height of the tonearm can be adjusted up to 6 mm, and a scale is provided on the adjust ring in 0.5 mm increments. Be sure to set the proper arm height using the adjust ring scale and referring to the table.

Height of cartridge (mm) (H)	Scale reading on the arm-height adjust ring
15	0
16	1
17	2
18	3
19	4
20	5
21	6

For example, if the cartridge height is 17.5 mm, the arm-height adjust ring should be positioned at the intermediate location between 2 and 3 on the scale. (See Fig. 22.)

Caution:

Be sure to lock the tonearm by turning the arm lock knob in the direction indicated by the arrow after finishing the height adjustment for the tonearm.

Lubrication (See Fig. 23.)

Apply 2 or 3 drops of oil once after every 2000 hours of operation.

The time interval is much longer than that for conventional type motors (200-500 hours).

Please purchase original oil. (Part number is SFWO 010.)

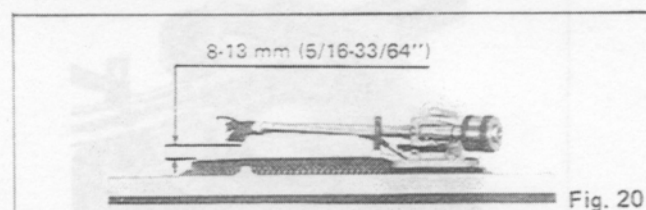


Fig. 20

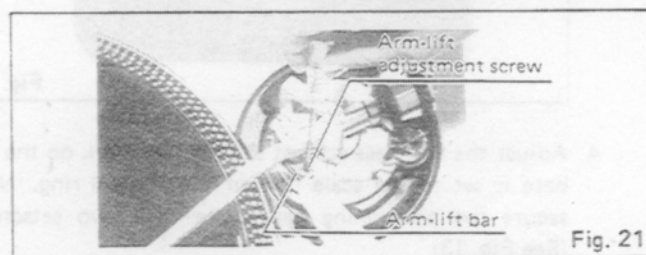


Fig. 21

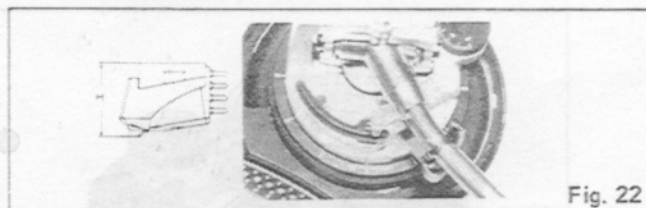


Fig. 22

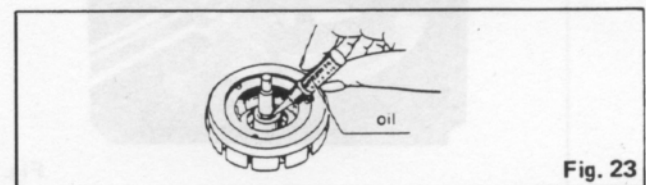


Fig. 23

■ JUSTIERUNGEN

Drehzahl-Feineinstellung (Vgl. Abb. 18 und 19.)

Wenn der Drehzahl-Feineinsteller beim Einschalten der Stromzufuhr in seiner mittleren Stellung ist, leuchtet der grüne LED-Anzeiger auf und zeigt den Betriebszustand für die vorgewählte Drehzahl (entweder 33-1/3 oder 45 U/min) an. Die Drehzahl ist über einen Bereich von ca. $\pm 8\%$ regelbar.

Die Zehlen auf dem Anzeiger geben ungefähre Prozentzahlen für die Drehzahlregulierung an.

Wenn eine der vier Atroboskoppunktserien am Plattentellerrand stationär zu bleiben scheint, so wird dadurch die entsprechende Drehzahlabweichung (bzw. Nenndrehzahl) angezeigt. (Vgl. Abb. 19.)

Anmerkung:

Die Stroboskopbeleuchtung dieses Plattenspielers verwendet eine Stroboskop-LED-Lampe, die mit der präzisen Quarzfrequenz synchronisiert ist.

Die Drehzahl-Feineinstellung muß unter der Beleuchtung durch diese LED-Lampe durchgeführt werden. Die LED-Lampe ist nicht mit Leuchtstofflampen synchronisiert.

Justierung der Tonarmlifthöhe (Vgl. Abb. 20 und 21.)

Die Tonarmlifthöhe, d.h. der Abstand zwischen Nadelspitze und Schallplattenoberfläche, wenn der Lift-Hebel angehoben ist, ist werkseitig auf ungefähr 8–13 mm eingestellt worden.

Falls der Abstand zu groß oder zu klein wird, drehen Sie die Justierschraube im Uhrzeigersinn oder Gegenuhrzeigersinn während Sie die Tonarmlifthührung nach unten drücken.

Drehung im Uhrzeigersinn

—Der Abstand wird kleiner.

Drehung im Gegenuhrzeigersinn

—Der Abstand wird größer.

Anmerkung:

Da die Justierschraube einen Sechskantkopf hat, muß die Tonarmlifthührung während des Justierens unbedingt gedrückt gehalten werden, damit sich die Schraube leicht drehen läßt.

Vergewissern Sie sich, daß der Sechskantkopf in die Tonarmlifthührung zurückkehrt, wenn diese losgelassen wird.

Justierung des Antiskating-Einstellers

Stellen Sie den Antiskating-Einstellknopf auf den gleichen Wert ein, wie den Auflagedruck. (Vgl. Abb. 13.)

Justierung der Tonarmhöhe (Vgl. Abb. 22.)

Die Tonarmhöhe kann mittels eines Justierings, dessen Skala in Stufen von 0,5 mm unterteilt ist, um bis zu 6mm reguliert werden. Nehmen Sie die Justierung gemäß nachstehender Tabelle vor.

Tonabnehmerhöhe (mm) (H)	Skalaeinstellung auf dem Tonarmhöhe-Justiering
15	0
16	1
17	2
18	3
19	4
20	5
21	6

Falls die Tonarmhöhe beispielsweise 17,5 mm beträgt, sollte der Justiering zwischen die Skalaeinstellungen 2 und 3 eingestellt werden. (Vgl. Abb. 22.)

Achtung:

Nach erfolgter Tonarmhöhe-Justierung muß der Tonarm unbedingt durch Drehen des Tonarmverriegelungskopfs in der Pfeilrichtung festgestellt werden.

■ JUSTIERUNGEN (Elektrisch)

- Anmerkung:**
- Nach Teilerneuerung von z.B. IC, Transistor, Diode usw. die folgenden Abgleichungen vornehmen.
 - Einstellung des Gerätes
 1. Netzschalter ----- ON
 2. Tonhöhe Kontrolle ----- Mittlere Stellung.

- 3. Drehzahlwähler ----- 33 U/min.
- Zu verwendende Instrumente
 1. Prüfgerät
 2. Signalfrequenzmesser

	Abgleichung	Anschlußpunkte	Abgleichpunkte	Abgleichmethode
A	Abgleich der Tonhöhenkontrolle $\pm 0\%$ (PITCH)	Signalfrequenzmesser ⊕ — TP27 ⊖ — GROUND	VR301	1. Schalter für Tonhöhenkontrolle auf Mittelstellung. 2. VR301 auf 262.08 kHz ± 0.05 kHz abgleichen.
B	Abgleich des Tonhöhensteuerungsgewinns	Prüfgerät TP31 und TP32	VR302	VR302 auf 2.7K ± 0.1 des Widerstandswertes einstellen.
C	Bremsen Justierung (BRAKE)	—	VR201	VR201 innerhalb 120° ~ 270° nach Haltsignalanzeige auf Kompletten Halt Justieren. (Plattenteller wird ein paar Sekunden nach Halt frei.) Haltsignal 

■ REGLAGES

Réglage d'écart (mise au point exacte de la vitesse) (Voir Figs. 18 et 19.)

Lorsque la manette de réglage d'écart est située à la position centrale une fois l'alimentation mise en marche, l'indicateur à diode électro-luminescente (LED) verte s'éclaire pour indiquer la condition de fonctionnement de la vitesse prédéterminée (soit 33-1/3 ou 45 t/p.m.). Le réglage d'écart est ajustable dans une plage d'à peu près 8%.

La mise au point devra être faite en se basant sur la graduation de l'indicateur. Les chiffres sur l'indicateur montrent les pourcentages approximatifs pour un réglage d'écart variable.

Lorsque les points stroboscopiques sur les quatre gradins du bord périphérique du plateau semblent être immobiles, la variation des écarts individuels est représentée. (Voir Fig. 19.)

Nota:

L'éclairage stroboscopique de cet appareil utilise un illuminomètre stroboscopique à diodes électro-illuminées (LED) synchronisé avec une fréquence à quartz précise.

Pour une mise au point exacte de la vitesse du plateau, s'assurer d'effectuer le réglage selon l'éclairage de la diode électro-luminescente.

L'éclairage à diodes électro-luminescentes ne se synchronise pas avec l'utilisation de lampes fluorescentes.

Mise au point de la hauteur de l'élévateur du bras (Voir Figs. 20 et 21.)

La hauteur de l'élévateur du bras (distance entre l'extrémité de la pointe de lecture et la surface du disque lorsque le levier de pose et de relevage du bras est soulevé) a été réglée en usine avant son départ sur une valeur approximative de 8 – 13 mm.

Si l'écartement devient trop étroit ou trop large, tourner la vis de réglage dans le sens des aiguilles d'une montre ou en sens inverse, tout en abaissant l'élévateur du bras.

Rotation dans le sens des aiguilles d'une montre.

—La distance entre la surface du disque et l'extrémité de la pointe de lecture diminue.

Rotation dans le sens contraire des aiguilles d'une montre.

—La distance entre la surface du disque et l'extrémité de la pointe de lecture augmente.

Nota:

Comme le vis de réglage possède une tête hexagonale, s'assurer d'effectuer la mise au point tout en abaissant l'élévateur du bras, sinon la vis ne bougera pas librement. Vérifier aussi que la tête hexagonale se retire correctement dans l'élévateur du bras quand ce dernier est libéré.

Mise au point de la hauteur du bras de lecture (Voir Fig. 22.)

La hauteur du bras de lecture peut être réglée jusqu'à 6 mm et une graduation est disposée sur la bague de réglage par augmentation de 0,5 mm. S'assurer de régler convenablement la hauteur du bras en utilisant la graduation de la bague et en se référant au tableau ci-dessous.

Hauteur de la cellule de lecture (mm) (H)	Lecture de la graduation sur la bague de réglage de la hauteur du bras
15	0
16	1
17	2
18	3
19	4
20	5
21	6

Par exemple, si la hauteur de la cellule de lecture est de 17,5 mm, la bague de réglage de la hauteur du bras devra être positionnée à l'emplacement intermédiaire entre les lectures de la graduation 2 et 3 indiquées sur la graduation. (Voir Fig. 22.)

Avertissement:

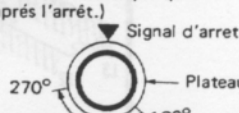
S'assurer de bloquer le bras de lecture en tournant la manette de blocage du bras dans la direction indiquée par la flèche, après avoir terminé la mise au point de la hauteur du bras de lecture.

■ REGLAGES (Electricité)

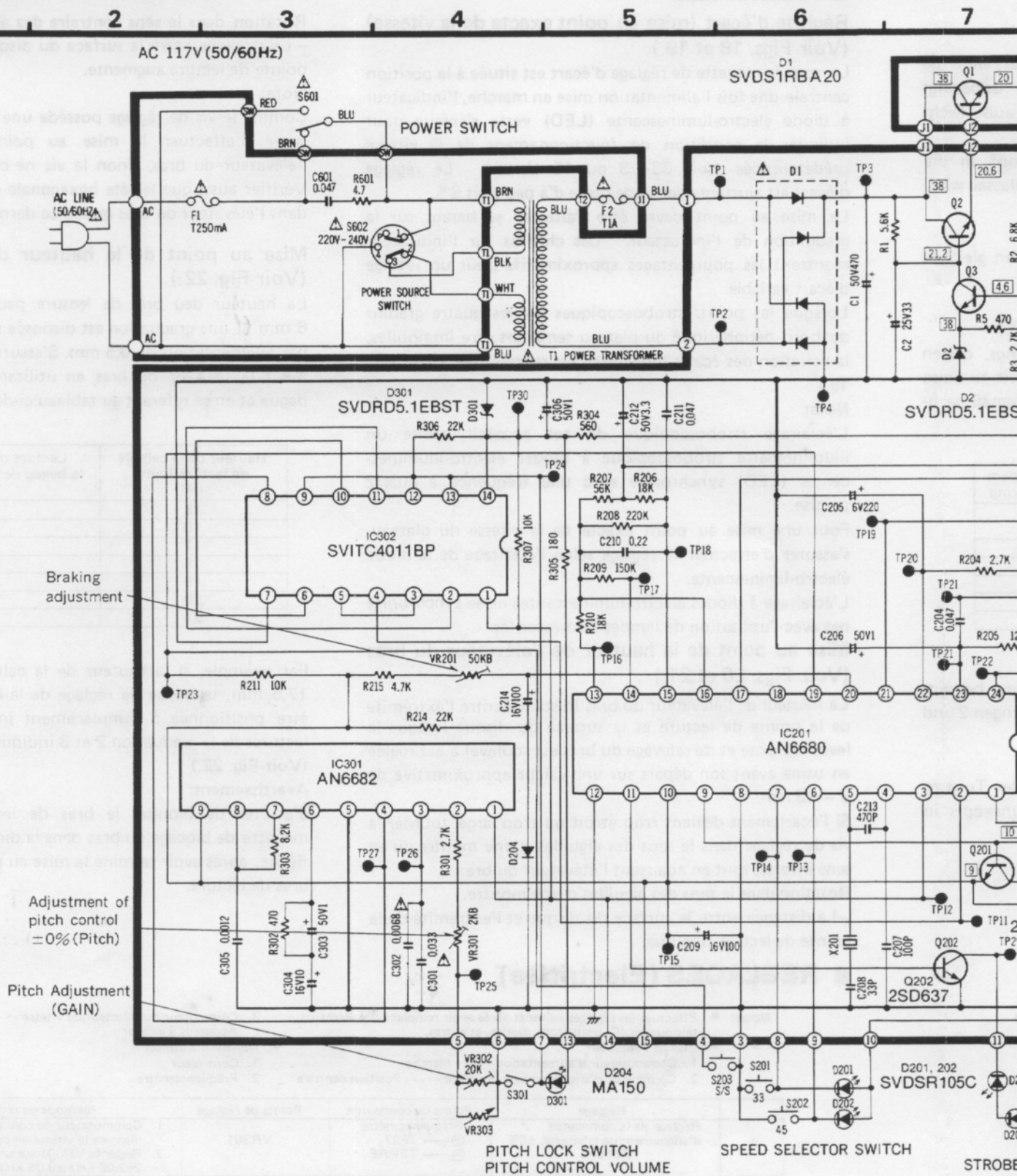
- Notes: ● Effectuer les réglages suivants après avoir remplacé des éléments tels que les IC, transistors, diodes, et autres.
- Etat de l'appareil
 - 1. Commutateur d'alimentation - - - - Marche
 - 2. Commande d'alignement de la vitesse - - - - Position centrale

- 3. Commutateur du sélecteur de vitesse - - - - 33-1/3 trs/mn.

- Appareils à utiliser
- 1. Contrôleur
- 2. Fréquencemètre

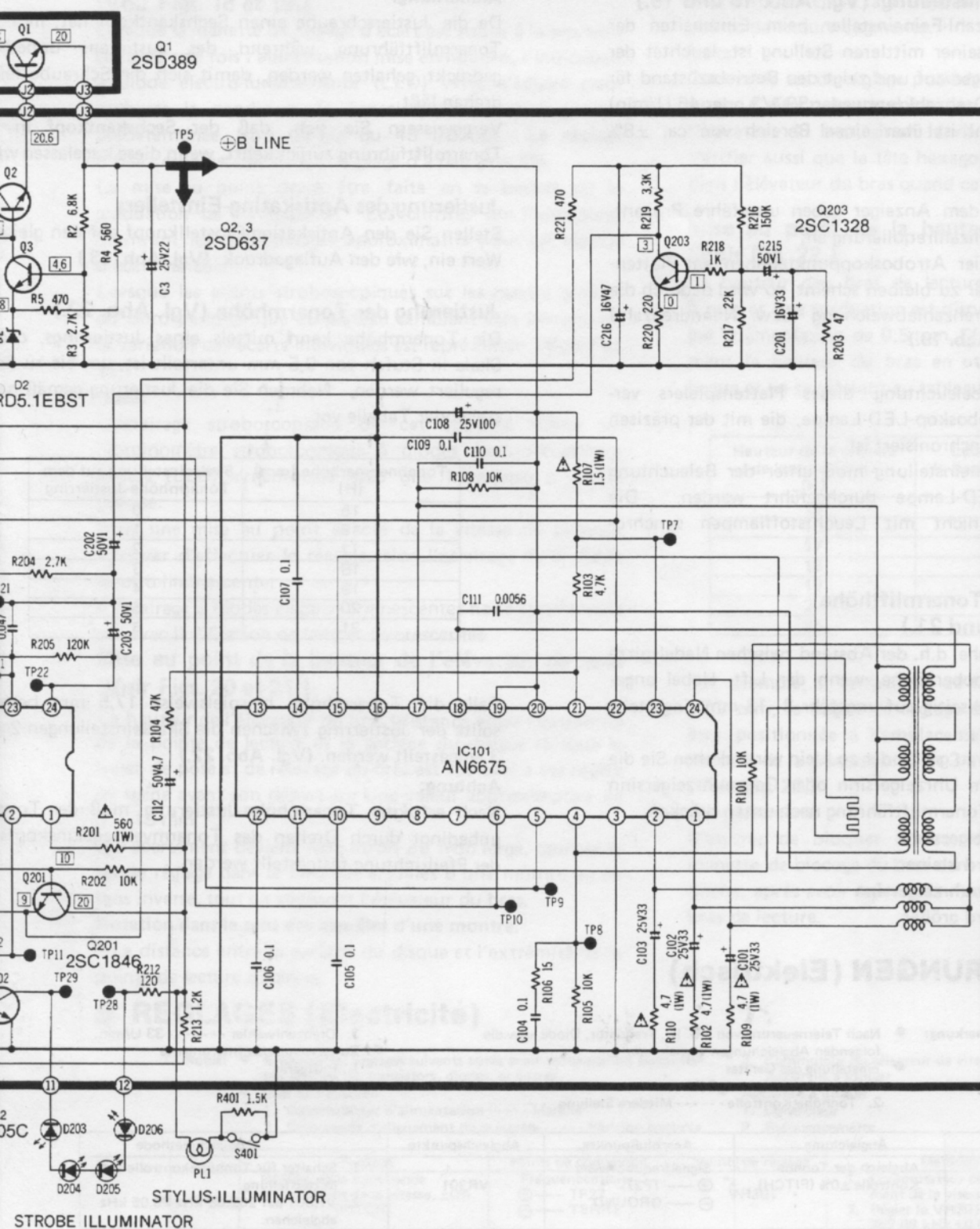
	Réglage	Points de connexion	Points de réglage	Méthode de réglage
A	Réglage de la commande d'alignement de la vitesse, $\pm 0\%$ (PITCH)	Fréquencemètre ⊕ — TP27 ⊖ — TERRE	VR301	1. Commutateur de commande d'alignement de la vitesse en position centrale 2. Régler la VR301 sur une fréquence de 262,08 kHz $\pm 0,05$ kHz
B	Réglage du gain de commande de la vitesse de rotation du plateau	Contrôleur TP31 et TP32	VR302	Régler la VR302 sur la valeur de la résistance de 2,7K $\pm 0,1$
C	Réglage du frein (BRAKE)		VR201	Régler la VR201 sur l'envoi du signal d'arrêt. (Le plateau devient libre quelques secondes après l'arrêt.) 

Schematic Diagram (This schematic diagram may be modified at any time with the development of



■ TERMINAL GUIDE OF TRANSISTOR AND IC

AN6675	AN6680	AN6682	SVITC4011BP	2SC1846	2SC1328	2SD637	2SD389



NOTE:

1. S201: Speed selector switch (33-1/3 r.p.m.) in "ON" position. (push condition)
2. S202: Speed selector switch (45 r.p.m.) in "OFF" position. (not-push condition)
3. S203: Start/Stop switch in "OFF" position. (not-push condition)
4. S301: Pitch lock switch in "ON" position. (center position)
5. S401: Stylus-illuminator switch in "OFF" position.
6. S601: Power switch in "ON" position.
7. S602: Power source switch in "220-240V" position.

8. The drive circuit IC voltage and wave form are not indicated in side the schematic diagram.
9. Indicated voltage value are the standard values for the unit measured by DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
10. ⚠ indicates that only parts specified by the manufacturer be used for safety.

REPLACEMENT PARTS LIST (Electrical)

Notes: 1. Part numbers are indicated on most mechanical parts.

Please use this number for parts orders.

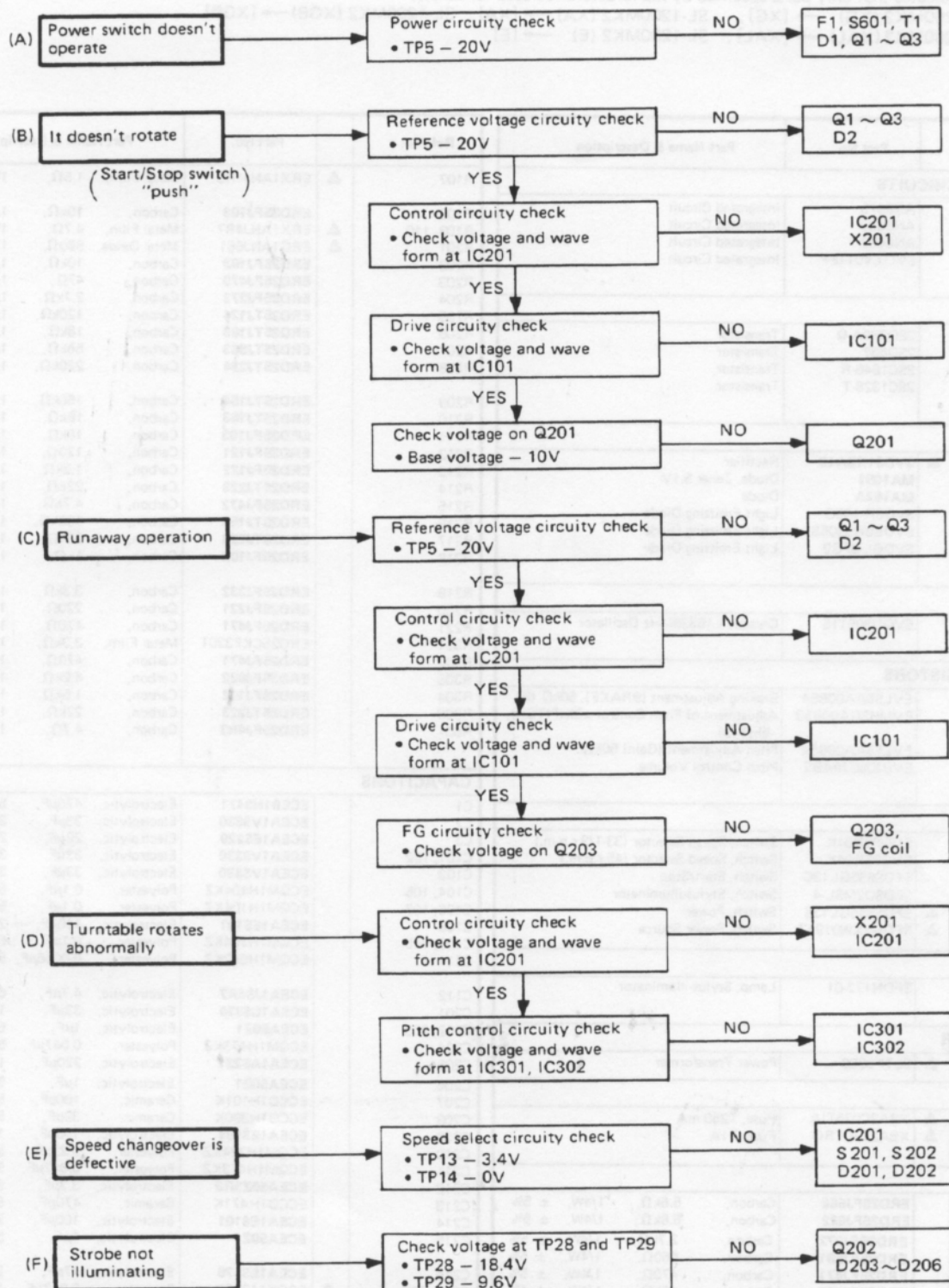
2. Δ indicates that only parts specified by manufacturer be used for safety.

3. SL-1200MK2 (XG) $\rightarrow$ [XG], SL-1200MK2 (XA) $\rightarrow$ [XA], SL-1200MK2 (XGB) $\rightarrow$ [XGB]
SL-1200MK2 (XAL) $\rightarrow$ [XAL], SL-1200MK2 (E) $\rightarrow$ [E]

Ref. No.	Part No.	Part Name & Description
INTEGRATED CIRCUITS		
IC101	AN6675	Integrated Circuit
IC201	AN6680	Integrated Circuit
IC301	AN6682	Integrated Circuit
IC302	SVITC4011BP	Integrated Circuit
TRANSISTORS		
Q1	2SD389A-Q	Transistor
Q2, 3, 202	2SD637	Transistor
Q201	2SC1846-R	Transistor
Q203	2SC1328-T	Transistor
DIODES		
D1	Δ SVDS1RBA40	Rectifier
D2, 301	MA1051	Diode, Zener 5.1V
D204	MA162A	Diode
D201, 202	SVDSR-105C	Light Emitting Diode
D203~206	SVDEBR5505S	Light Emitting Diode
D301	SVDGL-9PG2	Light Emitting Diode
CRYSTAL		
X201	SVQU306115	Crystal, 4.19328MHz Oscillator
VARIABLE RESISTORS		
VR201	EVLS6AA00B54	Braking Adjustment (BRAKE), 50k Ω (B)
VR301	EVVMH2GA00B53	Adjustment of Pitch Control $\pm 0\%$ (PITCH), 5k Ω (B)
VR302	EVLS6AA00B54	Pitch Adjustment (Gain) 50k Ω
VR303	EVBJ05C19ABE	Pitch Control Volume
SWITCHES		
S201	EVQP5R04K	Switch, Speed Selector (33-1/3 r.p.m.)
S202	EVQP5R04K	Switch, Speed Selector (45 r.p.m.)
S203	SFDS55SGL13C	Switch, Start/Stop
S401	SFDS02MSL-4	Switch, Stylus-illuminator
S601	Δ SFDS55SGL13S	Switch, Power
S602	Δ SFDSHXW01317	Switch, Power Source
LAMP		
PL1	SFDN172-01	Lamp, Stylus-illuminator
TRANSFORMER		
T1	Δ SLTF5900	Power Transformer
FUSE		
F1	Δ XBA2C025T1A	Fuse, T250 mA
F2	Δ XBA2C10TRO	Fuse, T1A
RESISTORS		
R1	ERD25FJ562	Carbon, 5.6k Ω , 1/4W, $\pm 5\%$
R2	ERD25FJ682	Carbon, 6.8k Ω , 1/4W, $\pm 5\%$
R3	ERD25FJ272	Carbon, 2.7k Ω , 1/4W, $\pm 5\%$
R4	ERD25FJ561	Carbon, 560 Ω , 1/4W, $\pm 5\%$
R5	ERD25FJ471	Carbon, 470 Ω , 1/4W, $\pm 5\%$
R101	ERD25FJ103	Carbon, 10k Ω , 1/4W, $\pm 5\%$
R102	Δ ERX1ANJ4R7	Metal Film, 4.7 Ω , 1W, $\pm 5\%$
R103	ERD25FJ472	Carbon, 4.7k Ω , 1/4W, $\pm 5\%$
R104	ERD25TJ473	Carbon, 47k Ω , 1/4W, $\pm 5\%$
R105	ERD25FJ103	Carbon, 10k Ω , 1/4W, $\pm 5\%$
R106	ERD25FJ150	Carbon, 15 Ω , 1/4W, $\pm 5\%$

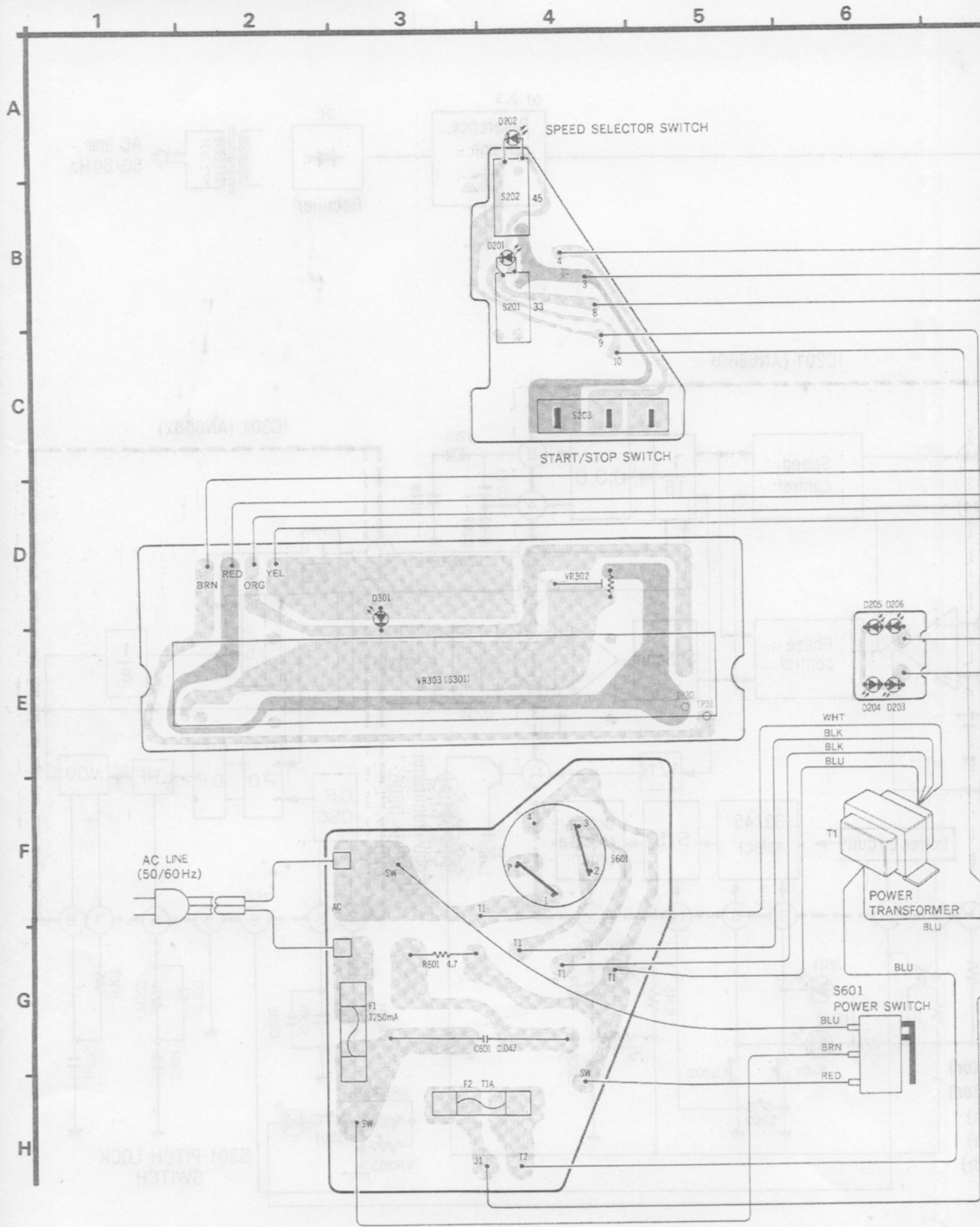
Ref. No.	Part No.	Part Name & Description
R107	Δ ERX1ANJ1R5	Metal Film, 1.5 Ω , 1W, $\pm 5\%$
R108	ERD25FJ103	Carbon, 10k Ω , 1/4W, $\pm 5\%$
R109, 110	Δ ERX1ANJ4R7	Metal Film, 4.7 Ω , 1W, $\pm 5\%$
R201	Δ ERG1ANJ561	Metal Oxide, 560 Ω , 1W, $\pm 5\%$
R202	ERD25FJ103	Carbon, 10k Ω , 1/4W, $\pm 5\%$
R203	ERD25FJ470	Carbon, 47 Ω , 1/4W, $\pm 5\%$
R204	ERD25FJ272	Carbon, 2.7k Ω , 1/4W, $\pm 5\%$
R205	ERD25TJ124	Carbon, 120k Ω , 1/4W, $\pm 5\%$
R206	ERD25TJ183	Carbon, 18k Ω , 1/4W, $\pm 5\%$
R207	ERD25TJ563	Carbon, 56k Ω , 1/4W, $\pm 5\%$
R208	ERD25TJ224	Carbon, 220k Ω , 1/4W, $\pm 5\%$
R209	ERD25TJ154	Carbon, 150k Ω , 1/4W, $\pm 5\%$
R210	ERD25TJ183	Carbon, 18k Ω , 1/4W, $\pm 5\%$
R211	ERD25FJ103	Carbon, 10k Ω , 1/4W, $\pm 5\%$
R212	ERD25FJ121	Carbon, 120 Ω , 1/4W, $\pm 5\%$
R213	ERD25FJ122	Carbon, 1.2k Ω , 1/4W, $\pm 5\%$
R214	ERD25TJ223	Carbon, 22k Ω , 1/4W, $\pm 5\%$
R215	ERD25FJ472	Carbon, 4.7k Ω , 1/4W, $\pm 5\%$
R216	ERD25TJ154	Carbon, 150k Ω , 1/4W, $\pm 5\%$
R217	ERD25TJ223	Carbon, 22k Ω , 1/4W, $\pm 5\%$
R218	ERD25FJ102	Carbon, 1k Ω , 1/4W, $\pm 5\%$
R219	ERD25FJ332	Carbon, 3.3k Ω , 1/4W, $\pm 5\%$
R220	ERD25FJ221	Carbon, 220 Ω , 1/4W, $\pm 5\%$
R221	ERD25FJ471	Carbon, 470 Ω , 1/4W, $\pm 5\%$
R301	ERO25CKF3301	Metal Film, 3.3k Ω , 1/4W, $\pm 1\%$
R302	ERD25FJ471	Carbon, 470 Ω , 1/4W, $\pm 5\%$
R303	ERD25FJ822	Carbon, 8.2k Ω , 1/4W, $\pm 5\%$
R304	ERD25FJ152	Carbon, 1.5k Ω , 1/4W, $\pm 5\%$
R306	ERD25TJ223	Carbon, 22k Ω , 1/4W, $\pm 5\%$
R601	ERD25FJ4R7	Carbon, 4.7 Ω , 1/4W, $\pm 5\%$
CAPACITORS		
C1	ECEB1HS471	Electrolytic, 470 μ F, 50V
C2	ECEA1VS330	Electrolytic, 33 μ F, 35V
C3	ECEA1ES220	Electrolytic, 22 μ F, 25V
C101, 102	ECEA1VS330	Electrolytic, 33 μ F, 35V
C103	ECEA1VS330	Electrolytic, 33 μ F, 35V
C104, 105	ECQM1H104KZ	Polyester, 0.1 μ F, 50V, $\pm 10\%$
C106, 107	ECQM1H104KZ	Polyester, 0.1 μ F, 50V, $\pm 10\%$
C108	ECEA1ES101	Electrolytic, 100 μ F, 25V
C109, 110	ECQM1H104KZ	Polyester, 0.1 μ F, 50V, $\pm 10\%$
C111	ECQM1H562KZ	Polyester, 0.0056 μ F, 50V, $\pm 10\%$
C112	ECEA1JS4R7	Electrolytic, 4.7 μ F, 63V
C201	ECEA1CS330	Electrolytic, 33 μ F, 16V
C202, 203	ECEA50Z1	Electrolytic, 1 μ F, 50V
C204	ECQM1H473KZ	Polyester, 0.047 μ F, 50V, $\pm 10\%$
C205	ECEA1AS221	Electrolytic, 220 μ F, 10V
C206	ECEA50Z1	Electrolytic, 1 μ F, 50V
C207	ECCD1H101K	Ceramic, 100pF, 50V, $\pm 10\%$
C208	ECCD1H390K	Ceramic, 39pF, 50V, $\pm 10\%$
C209	ECEA1ES101	Electrolytic, 100 μ F, 16V
C210	ECQM1H224KZ	Polyester, 0.22 μ F, 50V, $\pm 10\%$
C211	ECQM1H473KZ	Polyester, 0.047 μ F, 50V, $\pm 10\%$
C212	ECEA50Z3R3	Electrolytic, 3.3 μ F, 50V
C213	ECCD1H471K	Ceramic, 470pF, 50V, $\pm 10\%$
C214	ECEA1ES101	Electrolytic, 100 μ F, 25V
C215	ECEA50Z1	Electrolytic, 1 μ F, 50V
C216	ECEA1ES470	Electrolytic, 47 μ F, 25V
C301, 302	Δ ECQK1123FZ	Polyester, 0.012 μ F, 125V, $\pm 1\%$
C303	ECEA50Z1	Electrolytic, 1 μ F, 50V
C304	ECEA1HS100	Electrolytic, 10 μ F, 50V
C305	ECQM1H122KZ	Polyester, 0.0012 μ F, 50V, $\pm 10\%$
C306	ECEA50Z1	Electrolytic, 1 μ F, 50V
C601	ECNC4A473M	Paper, 0.047 μ F, 400V, $\pm 20\%$

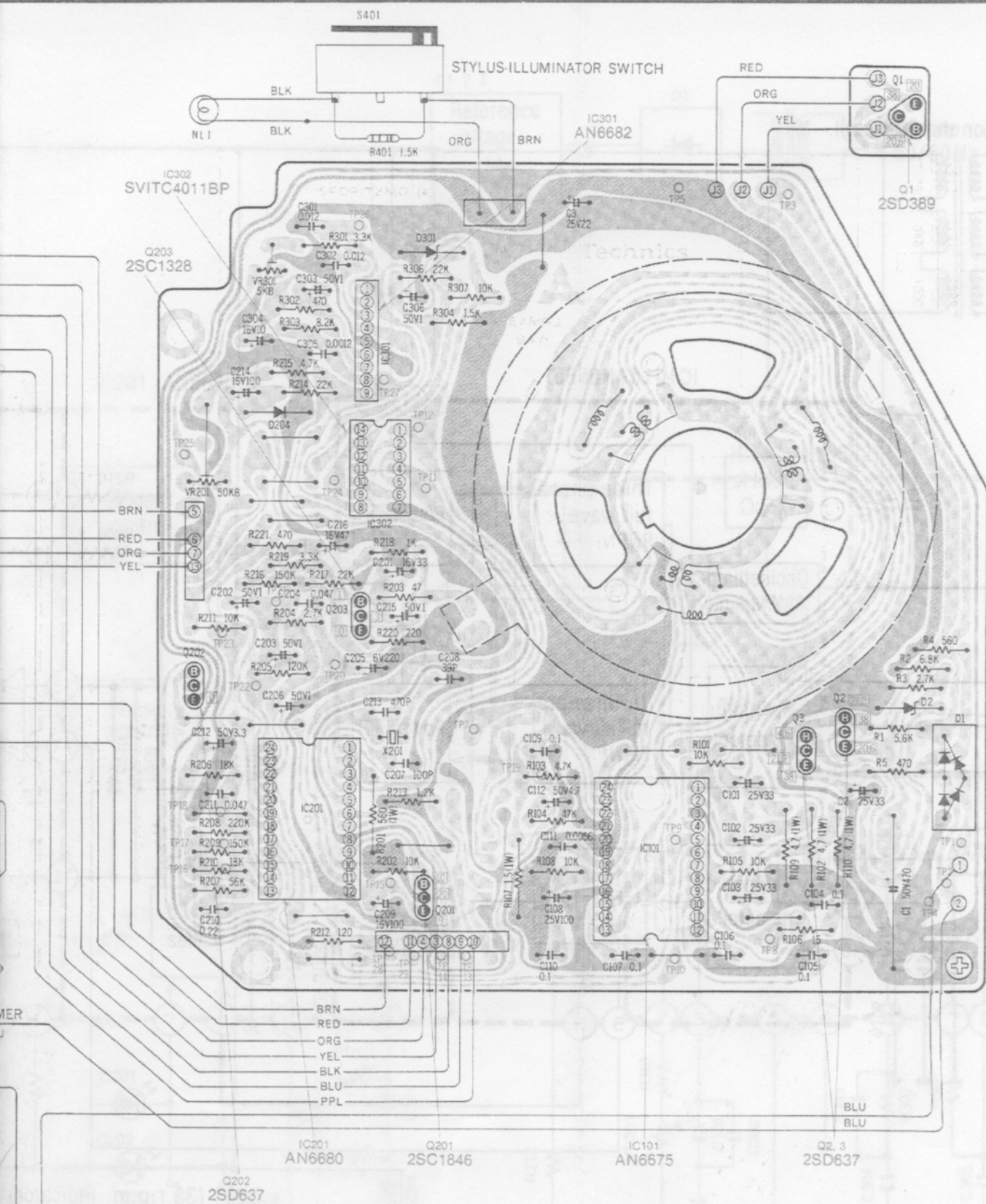
■ TROUBLE SHOOTING



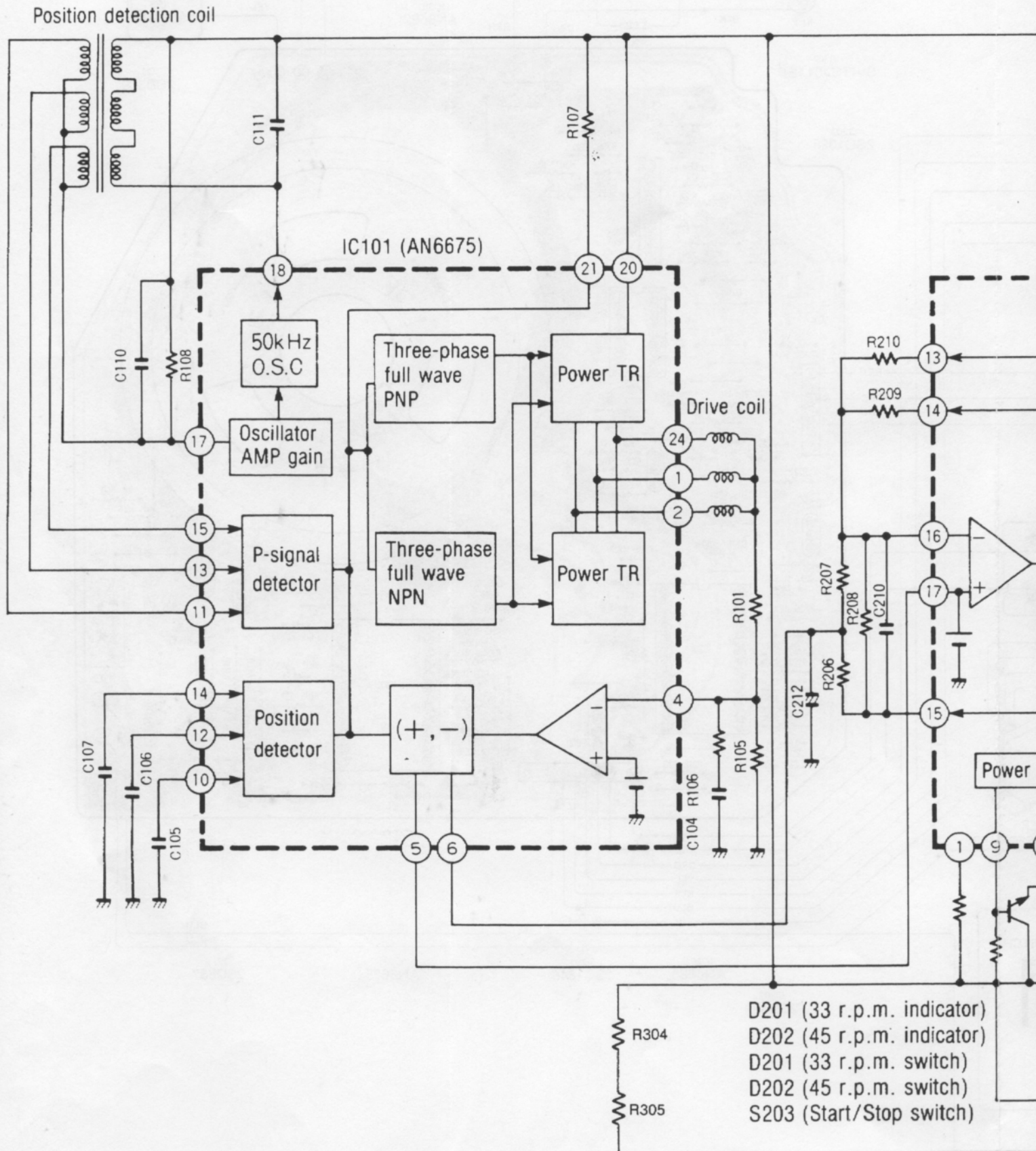
Printed Circuit Board

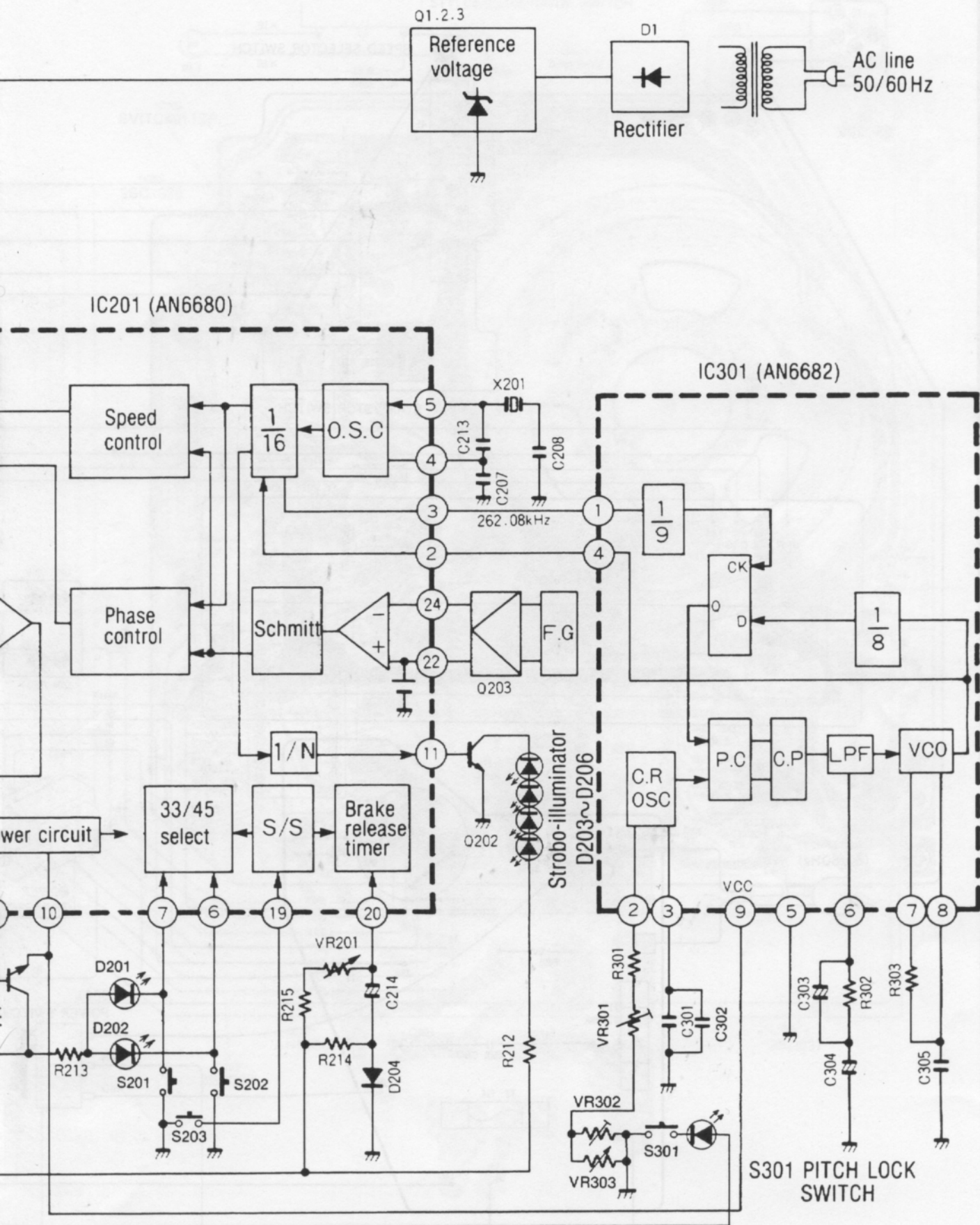
+ B line
Earth (Ground) lines





■ BLOCK DIAGRAM

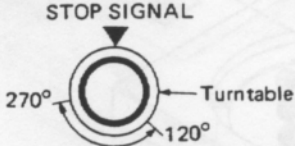




■ ADJUSTMENT (Electrical)

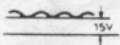
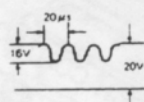
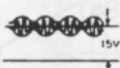
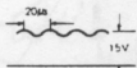
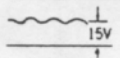
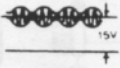
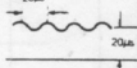
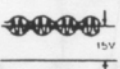
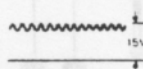
Notes: ● Make the following adjustments after replacing parts such as IC's, transistors, diodes, etc.

- Condition of the set.
 1. Power switch ON
 2. Pitch control Center position
 3. Speed selector switch 33-1/3 r.p.m.
- Instruments to be used
 1. Tester
 2. Frequency counter

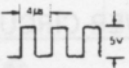
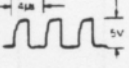
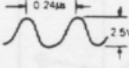
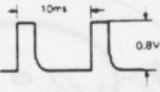
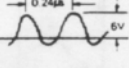
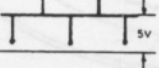
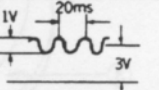
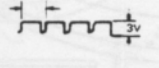
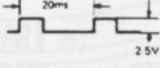
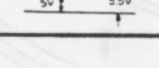
	Adjustment	Connection Points	Adjustment Point	Adjustment Method
A	Adjustment of pitch control $\pm 0\%$ (PITCH)	Frequency counter ⊕ — TP27 ⊖ — GROUND	VR301	1. Pitch control switch to center position. 2. Adjust VR301 for 262.08 kHz ± 0.05 kHz of frequency.
B	Adjustment of pitch control gain	Tester TP31 and TP32	VR302	Adjust VR302 for 2.7 k Ω ± 0.1 of resistance value
C	Braking adjustment (BRAKE)	—	VR201	Adjust VR201 for complete stop within 120° ~ 270° after stop signal initiated. (Turntable becomes free a few seconds after stop) 

■ REFERENCE VOLTAGE AND WAVEFORM AT EACH IC PIN

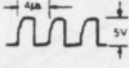
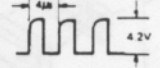
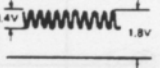
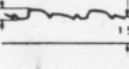
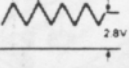
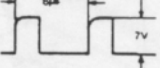
IC101 (AN6675)

	Start	Stop		Start	Stop		Start	Stop			
①	2V	2V	⑫		15V	⑮	Same as at right				
②	2V	2V									
③	0V	0V									
④	5V	5V	⑬			⑰	20V	20V			
⑤	5V	5V				⑲	20V	20V			
⑥	5V	6.6V				⑳	20V	20V			
⑦	0V	0V	⑭	15V	15V	㉑	20V	20V			
⑧	5V	5V				㉒	0.2V	0.2V			
⑨	0V	0V				㉓	20V	20V			
⑩		15V	⑮			㉔	1.7V	1.7V			
⑪											
			⑯	0V	0V						
			⑰	15V	15V						

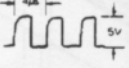
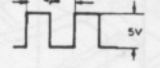
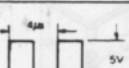
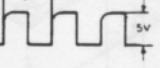
IC201 (AN6680)

	Start	Stop		Start	Stop		Start	Stop
①	2.5V	2.5V	⑧	0V	0V	⑯	5V	2.5V
②	Same as at right		⑨	9.8V	9.8V	⑰	5V	5V
③	Same as at right		⑩	10V	10V	⑱	0V	0V
④	Same as at right		⑪	Same as at right		⑲	7.5V	0V
⑤	Same as at right		⑫	0V	0V	⑳	0V	5V
⑥	3.4V	3.4V	⑬		0.2V	㉓		3V
⑦	0V	0V	⑭			㉔	2.8V	2.8V
			⑮		8V			

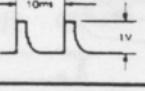
IC301 (AN6682)

	Start	Stop		Start	Stop		Start	Stop
①	Same as at right		④	Same as at right		⑧	Same as at right	
②	Same as at right		⑤	0V	0V	⑨	9V	9V
③	Same as at right		⑥	3.9V	3.9V			
			⑦	Same as at right				

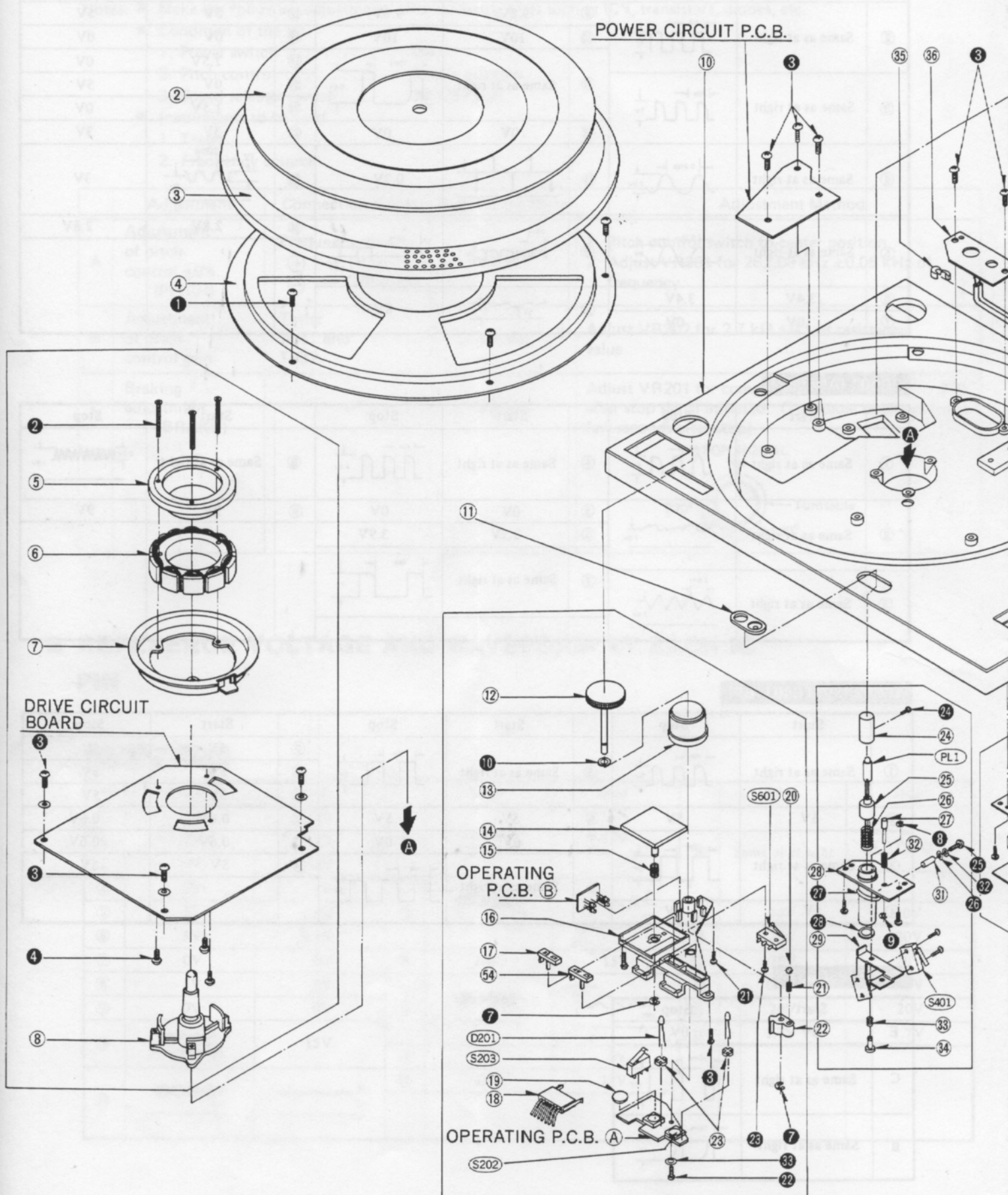
IC302 (SVITC4011BP)

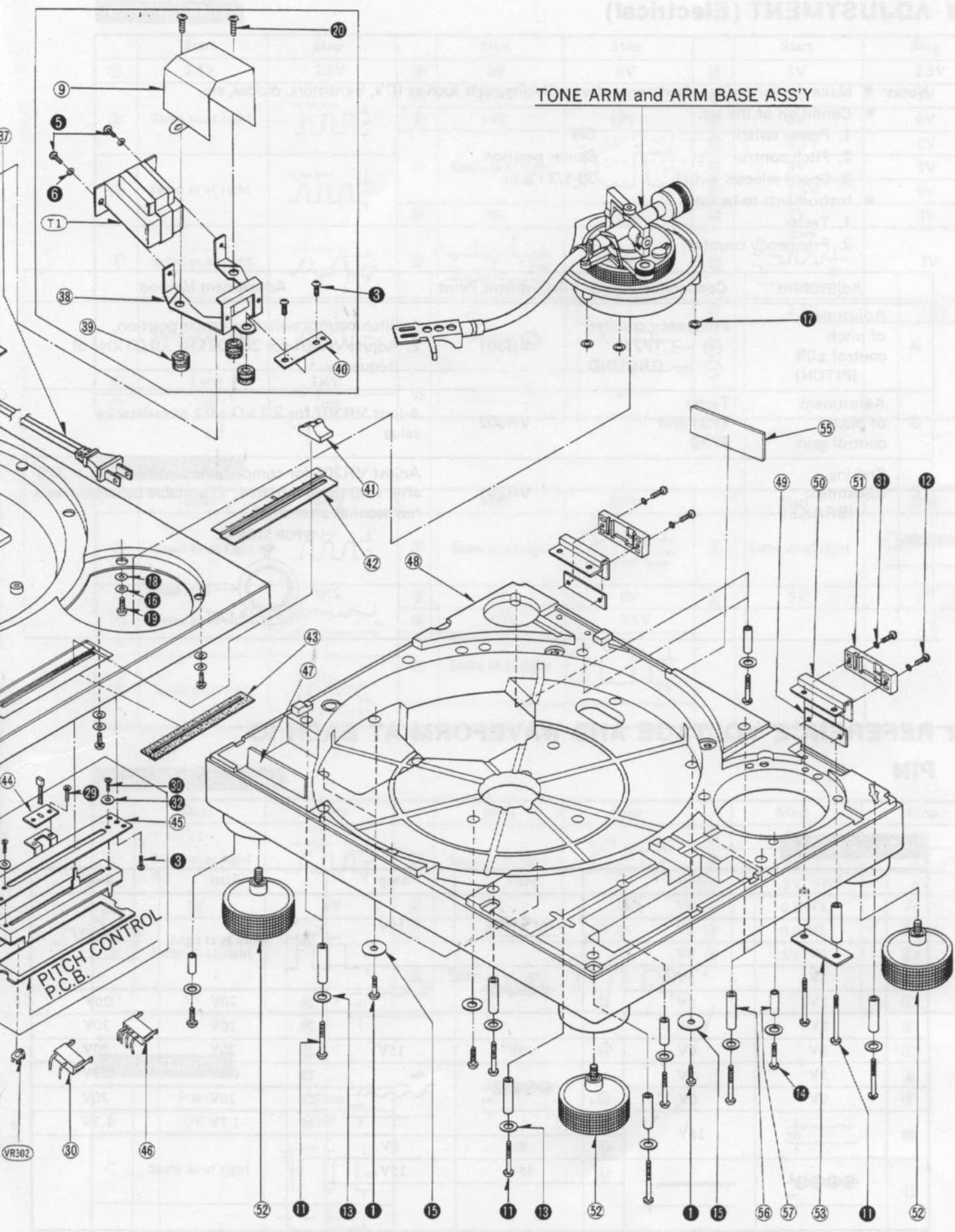
	Start	Stop		Start	Stop		Start	Stop
①	Same as at right		⑤	Same as at right		⑨	5V	5V
②	5V	5V	⑥	5V	5V	⑩	5V	5V
③	Same as at right		⑦	0V	0V	⑪	5V	5V
④	5V	5V	⑧	Same as at right		⑫	0.6V	0.6V
						⑬	0.6V	0.6V
						⑭	5V	5V

Q202 (2SD637)

	Start	Stop
E	0V	0V
C	Same as at right	
B	Same as at right	

EXPLODED VIEWS





TONE ARM and ARM BASE ASS'Y

PITCH CONTROL
P.C.B.

REPLACEMENT PARTS LIST (Mechanical)

Notes: 1. Part numbers are indicated on most mechanical parts.

Please use this number for parts orders.

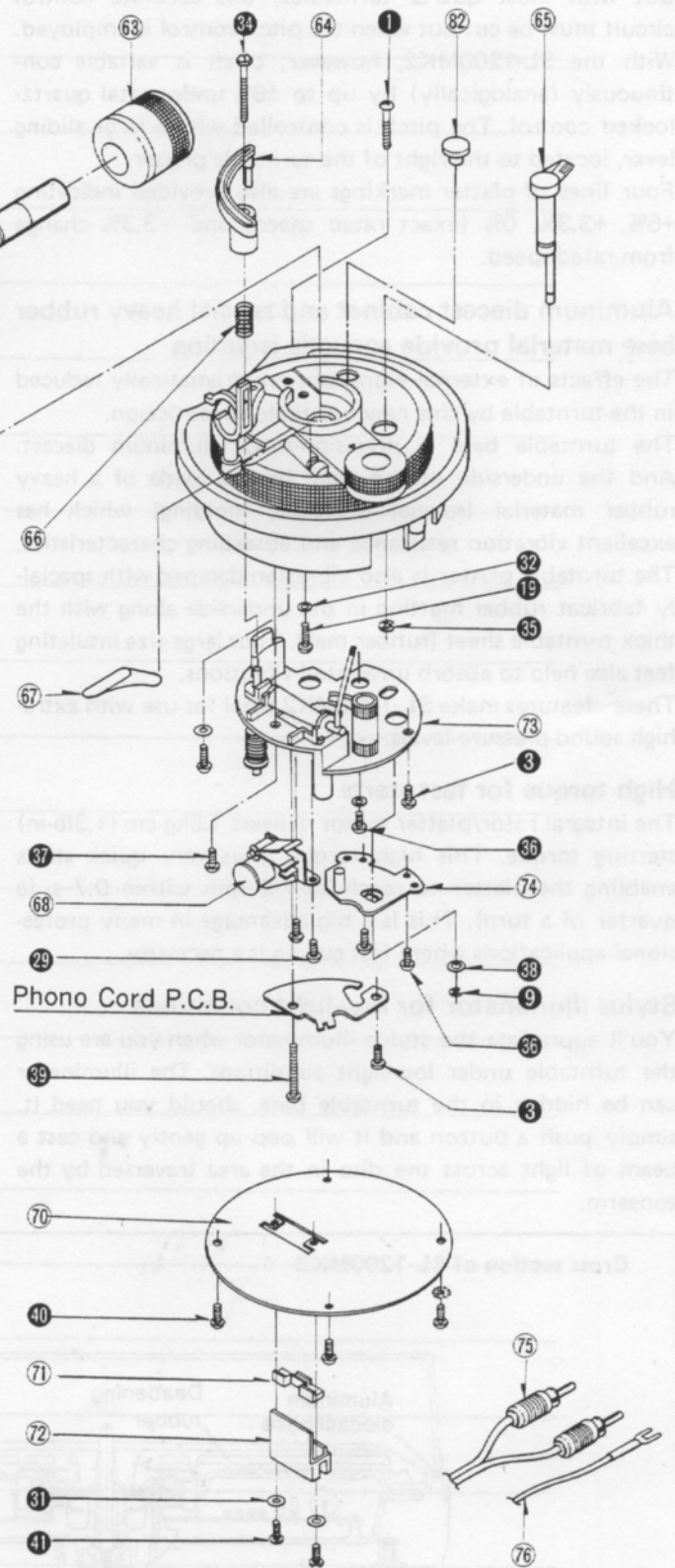
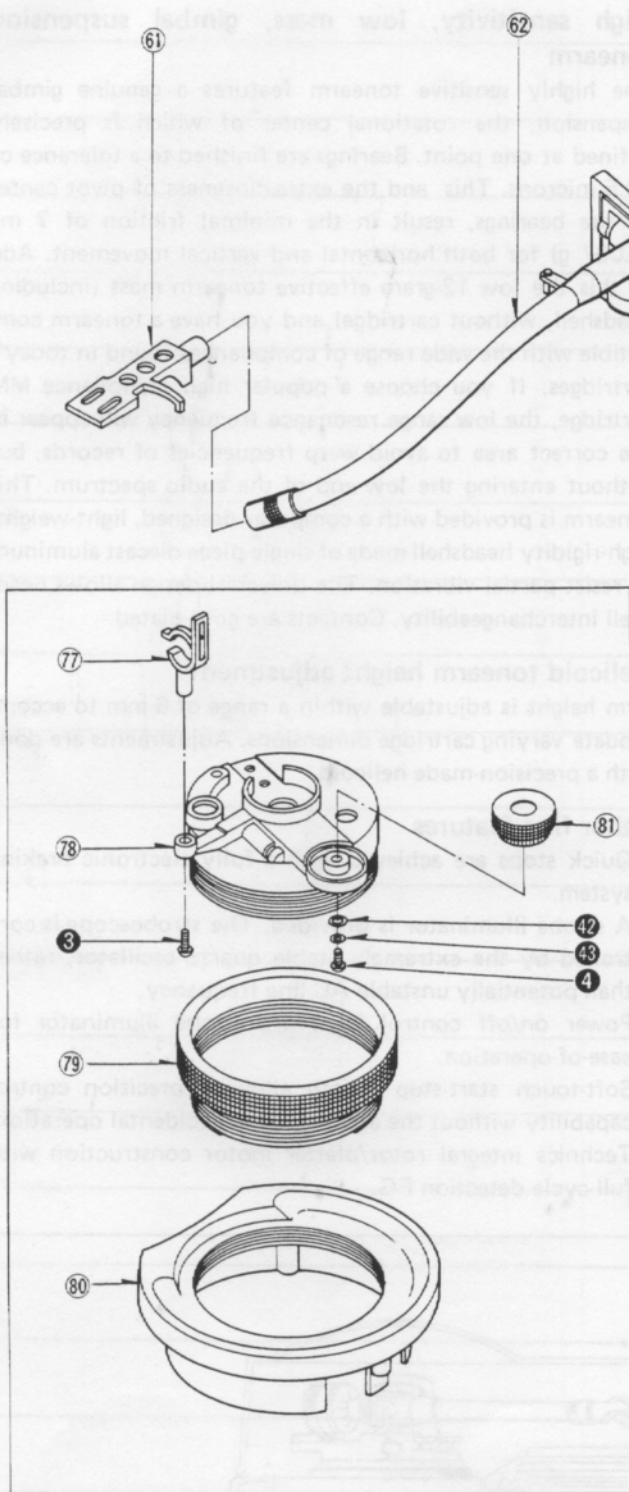
2. Δ indicates that only parts specified by manufacturer be used for safety.

3. SL-1200MK2 (XG) $\rightarrow$ [XG], SL-1200MK2 (XA) $\rightarrow$ [XA], SL-1200MK2 (XGB) $\rightarrow$ [XGB]
SL-1200MK2 (XAL) $\rightarrow$ [XAL], SL-1200MK2 (E) $\rightarrow$ [E]

Ref. No.	Part No.	Part Name & Description
CABINET and CHASSIS PARTS		
1	SFAD122-01A	Dust Cover
2	SFTG172-01	Turntable Mat
3	SFTE172-01Z	Turntable
4	SFUM172-05	Cover, Turntable
5	SFMGQ20-01	Cover, Stater Frame Ass'y
6	SFMG520-31A	Stater Frame
7	SFMZ172-01E	FG Detector Coil Ass'y
8	SFMZQ20-01A	Shaft, Stater Frame Ass'y
9	SFUP122-12	Plate, Shield
10	SFAC122-01	Cabinet
11	SFUM172-04	Ornament, Stylus-illuminator
12	SFKT122-01	Knob, Power Switch
13	SFKK122-01E	Case, Strobe-illuminator
14	SFKT015-06	Knob, Start/Stop Switch
15	SFQA122-01	Spring, Start/Stop Knob
16	SFUM122-01	Base, Operation
17	SFKT015-01E	Knob, Speed Selector (33-1/3 r.p.m.)
18	SFDJ122-02E	Connector, 7-PIN
19	SFGZ122-01	Spacer, Rubber (Speed Selector)
20	SFYB5-32	Ball, Switch Cam
21	SFQA520-01	Spring, Switch Cam
22	SFUM122-03	Cam, Switch
23	SFUM015-11	Spacer, LED
24	SFKK172-01	Cover, Lamp
25	SFXB122-02	Boss, Drive
26	SFQA172-01	Spring, Drive Boss
27	SFXJ172-01	Pin, Lock Canceler
28	SFUP122-02E	Bracket, Stylus-illuminator
29	SFUP122-03	Plate, Lock Operation
30	SFDJ122-03E	Connector, 3-PIN
31	SFXO172-01	Pin, Guide
32	SFQA520-01	Spring, Lock Canceler Pin
33	SFQA001-02	Spring, Lock Operating Plate M'tg
34	SFXJ172-05	Pin, Lock Operating Plate M'tg
35 except [XAL]	SFSR4N4	Clamper, AC Cord
35 [XAL] only	SFHK040L	Clamper, AC Cord
36 except [XAL]	SFUP025X01	Bracket, AC Cord
36 [XAL] only	SFUP025-01	Bracket, AC Cord
37 except [XAL]	Δ RJA23ZC	AC Cord
37 [XAL] only	Δ QFC1208M	AC, Cord
38	SFUP132-03	Bracket, Power Transformer
39	SFGC122-01	Cushion, Power Transformer
40	SFUP122-10	Spacer, Power Transformer
41	SFKT122-02	Knob, Pitch Control Volume
42	SFKK122-03	Ornament, Pitch Control Volume
43	SFUZ122-01	Shading Cloth, Pitch Control Volume
44	SFUP122-09	Holder, LED
45	SFUP122-01	Bracket, Pitch Control Volume
46	SFDJ122-01E	Connector, 4-PIN
47	SFUP122-13	Supporter, Bottom Base
48	SFAU122-01	Base, Bottom
49	SFUP122-05	Supporter (A), Hinge
50	SFUP122-04	Supporter (B), Hinge
51	SFUM170-07	Case, Hinge
52	SFGC122-02E	Audio Insulator
53	SFUP122-06	Supporter (C), Hinge
54	SFKT015-02E	Knob, Speed Selector (45 r.p.m.)
55 [XG, XA, XGB]	SFNN122N01	Name Plate
55 [XAL]	SFNN122L01	Name Plate
55 [E]	SFNN122S01	Instruction Book
56	SFXO122-01	Pipe (A)
57	SFXO122-02	Pipe (B)
58	SFAT122-01A	Hinge Ass'y
TONE ARM and ARM BASE		
61	SFPCC31001K	Head Shell
62	SFPAM18201K	Tone Arm Ass'y
63	SFPWG17201K	Balance Weight Ass'y
64	SFPRT18201K	Lift Ass'y
65	SFPZB17202	Knob, Arm Base Lock
66	SFQA829-03	Spring, Lift Ass'y
67	SFPAB13202	Knob, Arm Lift
68	SFPJL18202K	Oil Damper
70	SFPZB12203	Plate, Arm Base Cover
71	SFUM170-06	Spacer, Phono Cord
72	SFPZB12204	Clamper, Phono Cord
73	SFPAB18201K	Tone Arm Fixing Plate Ass'y

Ref. No.	Part No.	Part Name & Description
74	SFPZB12201K	Plate, Position Fix
75	SFDH028-01	Phono Cord
76	SFEL028-01E	Ground Wire
77	SFPRT17201K	Arm Rest
78	SFPKD17203	Arm Base
79	SFPKB17201S	Ring, Arm Base Operation
80	SFPKD12201	Bracket, Arm Base
81	SFPAB17206	Knob, Anti-skate Force Control
82	SFGK132-01	Cap, Rubber
SCREWS, WASHERS and CIRCLIPS		
1	XTN3+8BFZ	Screw
2	SFXGQ20-02	Screw
3	XTN3+8B	Screw
4	XTN26+6B	Screw
5	XTN4+10B	Screw
6	XWA4B	Washer
7	XUC3FT	Circlip
8	XUC2FT	Circlip
9	XUC25FT	Circlip
10	SFXW910J02	Washer
11	XTN3+40BFZ	Screw
12	XSN3+10BVS	Screw
13	XWE3F12FZ	Washer
14	XTN3+25BFZ	Screw
15	SFXW122-01	Washer
16	XWE3E10	Washer
17	SFPEW1100	Washer
18	SFPEW11003	Washer
19	XSN3+8S	Screw
20	SFXG132-01	Screw
21	XTV3+8BFN	Screw
22	XTN3+10B	Screw
23	XTN2+10B	Screw
24	XSN17+3FY	Screw
25	XSN3+14S	Screw
26	SFXW172-04	Washer
27	XUB14FT	Circlip
28	SFUZ172-05	O Ring
29	XTN3+6B	Screw
30	XSN3+6S	Screw
31	XWA3BFZ	Washer
32	XWA3B	Washer
33	XWG3	Washer
34	SFXG829-1	Screw
35	XUC5FT	Circlip
36	XTW3+6B	Screw
37	XTV3+6BFN	Screw
38	XWE4A10EW	Washer
39	XTN3+25B	Screw
40	XYN3+C6FZS	Screw
41	XSN3+12BVS	Screw
42	SFPEW17201	Washer
43	XWG26	Washer
ACCESSORIES		
A1 except [E]	SFNU122X01	Instruction Book
A1 [E] only	SFNU122S01	Instruction Book
A2	SFWE010	Adaptor, 45 r.p.m.
A3	SFPEN3302	Nut, Cartridge
A4	SFPEW9601	Washer, Cartridge
A5	SFCZV8801	Screw, Cartridge
A6	SFPEV9801	Screw, Cartridge
A7	SFKO135-01	Overhang Gauge
A8	SFPZB3501	Shell Weight
A9 [XA] only	SFDK119118	Plug, 2-PIN
PACKINGS		
P1	SFHP122M01	Carton
P2	SFHH122-01	Pad, Front
P3	SFHH122-02	Pad, Rear
P4	SFHD122-01	Pad, Top
P5	SFHD122-02	Pad, (A), Turntable
P6	SFHD122-03	Pad, (B), Turntable
P7	SFYH60X60	Polyethylene Cover, Turntable Unit and Dust Cover
P8	SFYH40X45	Polyethylene Cover, Turntable

■ EXPLODED VIEWS



■ FEATURES

Total quartz locked continuous pitch adjustment $\pm 8\%$

Quartz-phase-locked control means almost perfect accuracy of turntable rotation.

But with most quartz turntables, this accurate control circuit must be cut out when the pitch control is employed. With the SL-1200MK2, however, pitch is variable continuously (analogically) by up to $\pm 8\%$ under total quartz-locked control. The pitch is controlled with a large sliding lever, located to the right of the turntable platter.

Four lines of platter markings are also provided indicating $+6\%$, $+3.3\%$, 0% (exact rated speed) and -3.3% change from rated speed.

Aluminum diecast cabinet and special heavy rubber base material provide acoustic isolation

The effects of external vibrations are dramatically reduced in the turntable by this new turntable construction.

The turntable base is precision-made aluminum diecast. And the underside of the main base is made of a heavy rubber material (special one-piece molding) which has excellent vibration resistance and absorbing characteristics. The turntable platter is also vibration-damped with specially fabricat rubber matting in the underside along with the thick turntable sheet (rubber mat). Four large-size insulating feet also help to absorb unwanted vibrations.

These features make SL-1200MK2 ideal for use with extra-high sound pressure levels.

High torque for fast starts

The integral rotor/platter motor delivers 1.5kg·cm (1.3lb·in) starting torque. This high torque gives very quick starts enabling the platter to reach 33-1/3 rpm within 0.7 s. (a quarter of a turn). This is a big advantage in many professional applications where fast cueing is a necessity.

Stylus illuminator for low-light conditions

You'll appreciate the stylus illuminator when you are using the turntable under low-light conditions. The illuminator can be hidden in the turntable base, should you need it, simply push a button and it will pop up gently and cast a beam of light across the disc in the area traversed by the tonearm.

You can then clearly see the spaces between the selections on the record, and cue the arm exactly where you want it. The illuminator can then be pushed back down into the base.

High sensitivity, low mass, gimbal suspension tonearm

The highly sensitive tonearm features a genuine gimbal suspension, the rotational center of which is precisely defined at one point. Bearings are finished to a tolerance of ± 0.5 microns. This and the extra-closeness of pivot center to the bearings, result in the minimal friction of 7 mg (0.007 g) for both horizontal and vertical movement. Add to this the low 12-gram effective tonearm mass (including headshell, without cartridge) and you have a tonearm compatible with the wide range of compliances found in today's cartridges. If you choose a popular high compliance MM cartridge, the low range resonance frequency will appear in the correct area to avoid warp frequencies of records, but without entering the low end of the audio spectrum. This tonearm is provided with a computer designed, light-weight, high-rigidity headshell made of single-piece diecast aluminum to resist partial vibration. The universal design allows headshell interchangeability. Contacts are gold-plated.

Helicoid tonearm height adjustment

Arm height is adjustable within a range of 6 mm to accommodate varying cartridge dimensions. Adjustments are done with a precision-made helicoid.

Other fine features

- Quick stops are achieved with a fully electronic braking system.
- A strobe illuminator is provided. The stroboscope is controlled by the extremely stable quartz oscillator, rather than potentially unstable AC line frequency.
- Power on/off control built-into strobe illuminator for ease-of-operation.
- Soft-touch start-stop switch allowing precision control capability without the annoyance of accidental operation.
- Technics integral rotor/platter motor construction with full cycle detection FG.

Cross section of SL-1200MK2

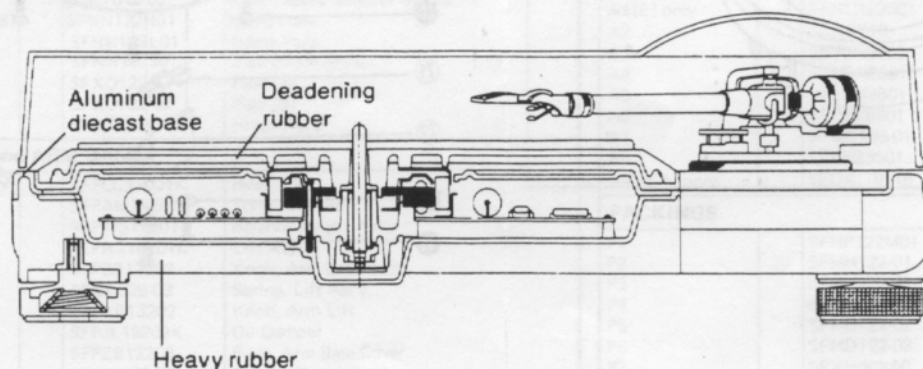


Fig. 24