(M), (MC)

SL-1200MK2

Service Manual Turntable System SL-1200MK2



WARNING

This service literature is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service literature by anyone else could result in serious injury or death.

> • The model SL-1200MK2 (M) is available in U.S.A. only. • The model SL-1200MK2 (MC) is available in Canada only.

SPECIFICATIONS

General

Power supply: Power consumption: **Dimensions:** $(W \times H \times D)$ Weight:

Turntable section Type:

Drive method: Motor: Turntable platter:

Turntable speeds: Pitch control: Starting torque: Build-up characteristics: Braking system: Speed change due to load torque: Wow and flutter:

120 V, AC, 50 or 60 Hz 12 W 45.3 x 16.2 x 36 cm (17-27/32"×6-19/64"×14-11/64") 11 kg (24.3 lb)

Quartz direct drive Manual turntable Direct drive Brushless DC motor Aluminum diecast Diameter 33.2 cm (13-5/64") Weight 2 kg (4.4 lb.) 33-1/3 rpm and 45 rpm All quartz-locked ±8% range 1.5 kg-cm (1.3 lb-in)

0.7 s. from standstill to 33-1/3 rpm Electronic brake

0% within 1.0 kg-cm (0.87 lb-in) 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 tonarm, but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.

Rumble:

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

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

Tonearm section Type: Universal Effective length: 230mm (9-1/16") Arm height adjustment 31.8-37.8 mm (helicoid part 6 mm) range: (1-21/32"-3-35/64") (helicoid part 15/64") Overhang: 15 mm (19/32") 12 g (without cartridge) Effective mass: Offset angle: 22 Less than 7 mg (lateral, vertical) Within 2°32' (at the outer groove of 30 cm (12'') record Within 0°32' (at the inner groove of Friction: Tracking error angle: 30 cm (12") record Stylus pressure adjustment range: 0 - 2.5 gApplicable cartridge 6-10 g

weight range: (with auxiliary weight): (with shell weight): Headshell weight:

13.5-17.5 g (including headshell) 9.5-13 g 17-20.5 g (including headshell) 3.5 - 6.5 g11-14 g (including headshell) 7.5 g

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Technics

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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.
- Remove 3 screws

 of the drive circuit board and 3 screws
 of the stater frame cover as shown in Fig. 2.
- Disconnect 18 soldered parts G of the stater coil and 4 soldered parts G of the F.G detector coil as show in Fig. 3.
- 7. Remove 3 screws (1) 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 ① as show in Fig. 4.
- 10. Remove 11 screws **O** as shown in Fig. 4.

How to remove stylus-illuminator lamp

- Remove 2 screws (3) of the stylus-illuminator lamp ass'y as shown in Fig. 5.
- 12. Remove 1 screw () as shown in Fig. 6.

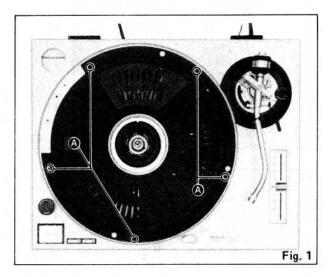
How to remove neon-illuminator L.E.D.

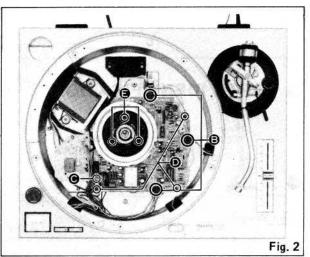
- 13. Remove 4 screws 🕲 as shown in Fig. 5.
- Remove 1 circlip (and switch cam as shown in Fig. 5.
- 15. Remove strobo-illuminator case.

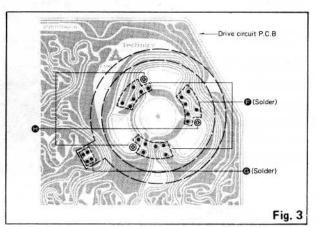
How to remove tone arm

- Remove 4 screws
 of the arm base cover as shown in Fig. 5.
- Remove 2 screws

 of the phono cord clamper as shown in Fig. 5.
- 18. Remove phono cord clamper as shown in Fig. 7.
- Remove 2 screws
 of the phono cord p.c.b. as shown in Fig. 8.
- 20. Remove 2 screws S as shown in Fig. 8.
- Remove 2 screws
 of the silicon oil dumper as shown in Fig. 8.
- 22. Remove 3 screws () as shown in Fig. 8.
- Remove 2 screws S of the tone arm as shown in Fig. 9.



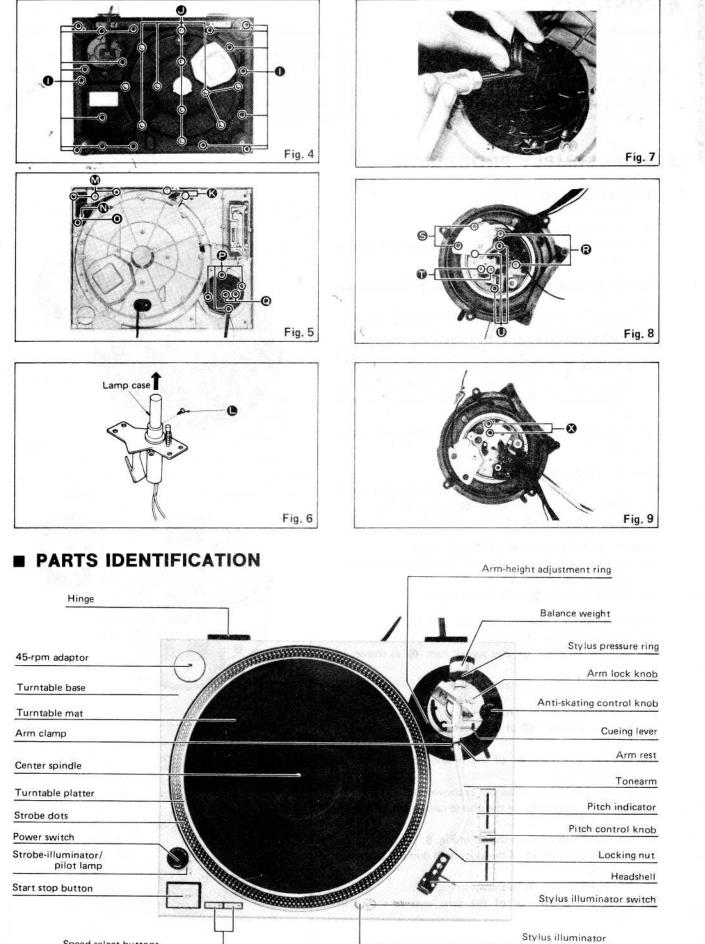




SL-1200MK2

nlv

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Speed select buttons

1. Att con 2. Cor 1.5

Op

3. Hol base cloc

> Not Tak pos

4. Adj

base

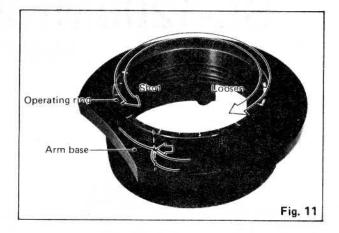
Secu

(See

ARM

ARM BASE ASSEMBLING PROCEDURE

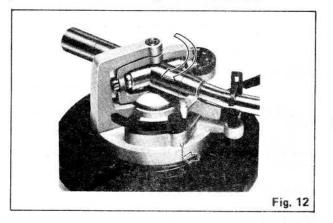
- 1. Attach the control ring to the arm base seat. (The control ring should be roated counterclockwise.)
- Completely tighten the control ring, and then loosen it 1.5~2.5 turns to set the scale to "3". (See Fig. 11)



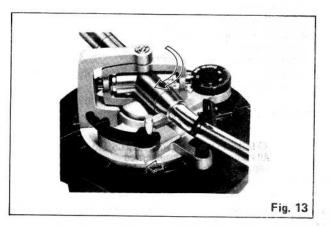
 Hold the arm base and set the red line mark on the arm base to the scale near "2", then turn the arm base clockwise. (See Fig. 12)

Note:

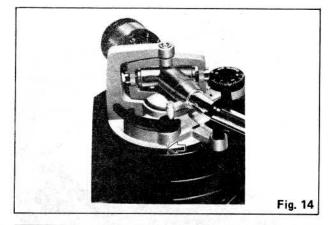
Take care not to allow deflection of the predetermined positions of the control ring and arm base seat.

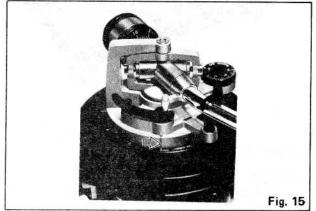


 Adjust the arm base so that the red line mark on the arm base is set to the scale "3" of the control ring. Next, secure the positioning base plate with two setscrews. (See Fig. 13)



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.

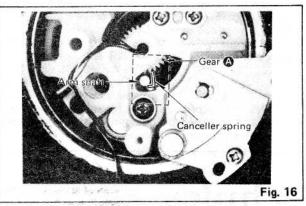




ADJUSTMENT OF CANCELLER SPRING POSITION

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.
- Set the canceller knob to "0.5".
- 3. Remove the PU base plate, adjust gear (2) so that the canceller spring is in the position of Fig. 16.
- Mount the PU base plate onto the arm base and creck the spring position.



FEATURES

Total quartz locked continuous pitch adjustment ±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 extrahigh 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

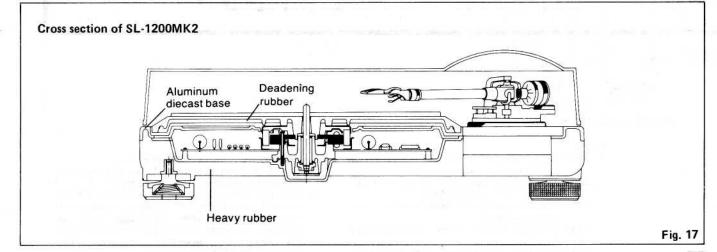
The highly sensitive tonearm features a genuine gimbal suspension, the rotational center of which is precisely defined at one point. Bearings are finished to a tolerance of ±0.5 microns. This and the extra-closeness of pivot center to the bearings, result in the minimal friction of 7 mg (0.007 g) for 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.



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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 $0\sim\pm8\%$.

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:

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.

ocated at the center of the a scale is provided o er the green LED indicator. Be sure to set the

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.

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

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 armheight adjust ring should be positioned at the intermediate location between 2 and 3 on the scale. (See Fig. 22.)

Caution:

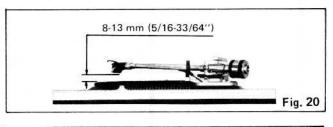
Be sure to lock the tonearm by turning the arm lock knob in the direction indicated by the arrow after finishing the height adjustment for the tonearm.

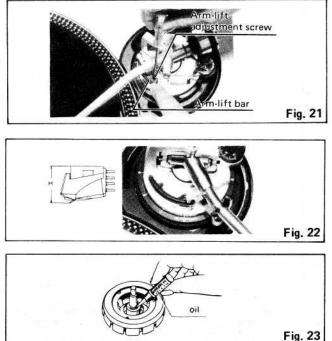
Lubrication (See Fig. 23.)

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.)





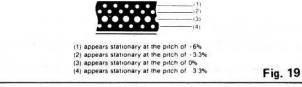
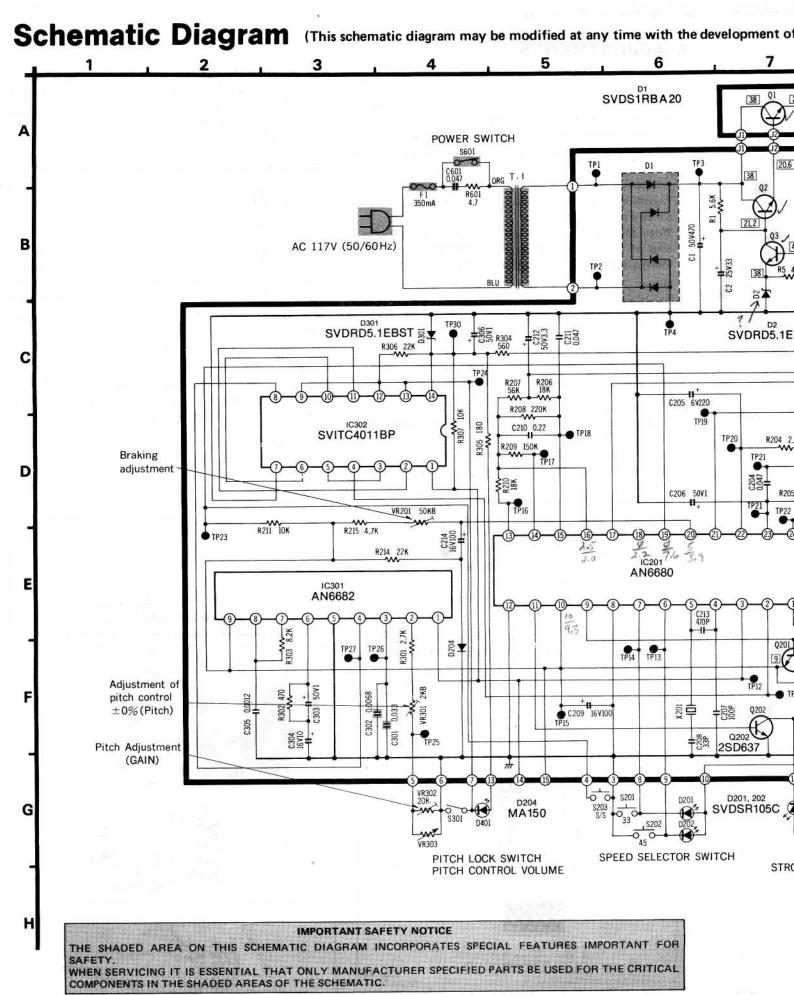


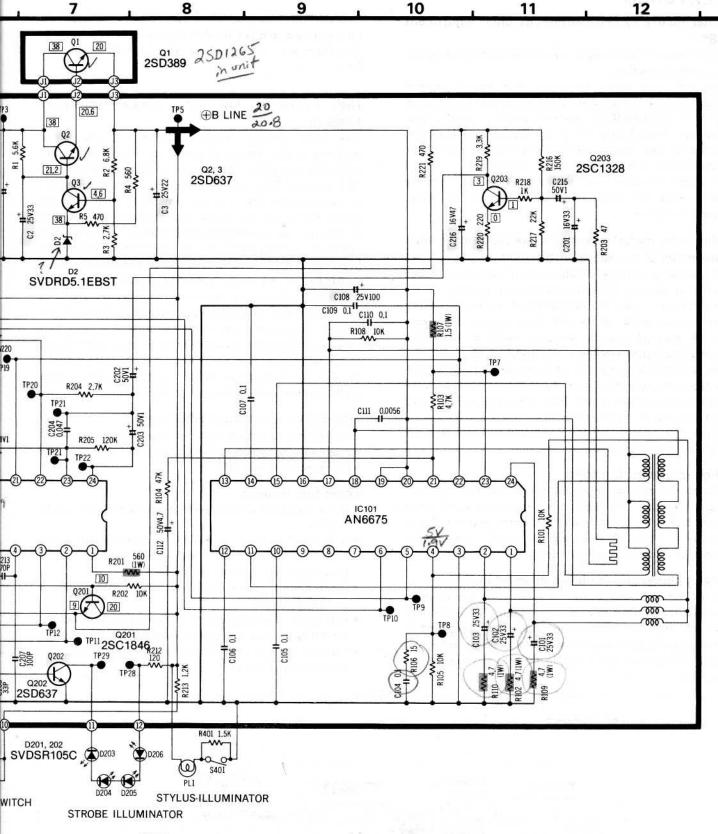
Fig. 18

ig. 17

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development of new technology.)



NOTO:

- 1. **S201:** Speed selector switch (33-1/3 r.p.m.) in "**ON**" position. (push condition)
- S202: Speed selector switch (45 r.p.m.) in "OFF" position. (not-push condition)
- 3. S203: Start/Stop switch in "OFF" position. (notpush condition)
- 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. The drive circuit IC voltage and wave form are not indicated in side the schematic diagram.
- 8. Indicated voltage values 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.

SL-1200MK2

REPLACEMENT PARTS LIST (Electrical)

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

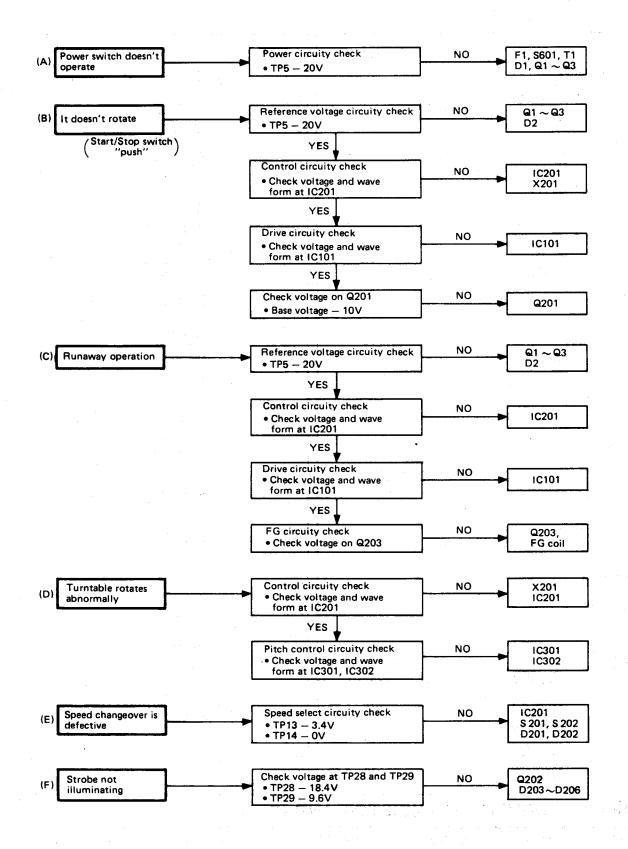
- Please use this part number for parts orders.
- 2. \triangle indicates that only parts specified by manufacturer be used for safety.
- 3. \overline{SL} -1200MK2(M) \rightarrow [M], SL-1200MK2 (MC) \rightarrow [MC]

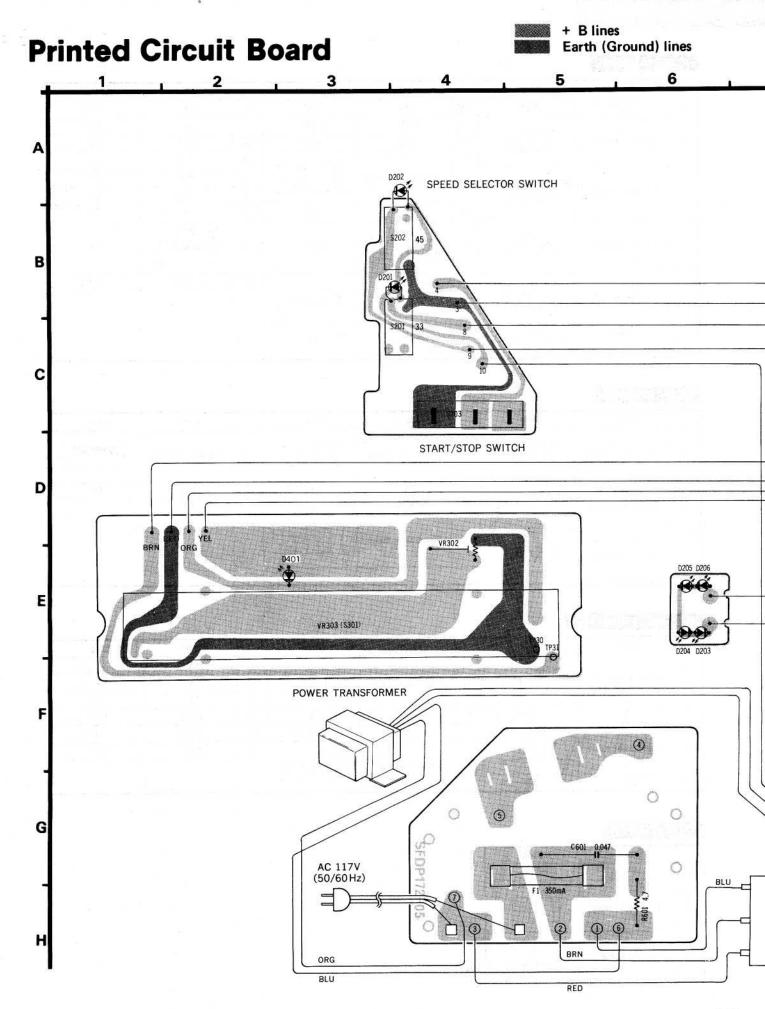
Ref. No.		Part No.	Part Name & Description	Ref. No.		Part No.	Part N	lame & Desc	ription	
INTEGRATE	DCIR	CUITS	**************************************	R108		ERD25FJ103	Carbon,	10kΩ,	1/4W,	
C101	1	AN6675	Integrated Circuit	R109, 110		ERX1ANJ4R7	Metal Film,	4.7Ω,	1W,	± 59
		AN6680	Integrated Circuit	R201		ERG1ANJ561	Metal Oxide,	560 Ω ,	1W,	± 59
2201				R202		ERD25FJ103	Carbon.	10kΩ,	1/4W,	± 5%
C301		AN6682	Integrated Circuit	R203		ERD25FJ470	Carbon,	47Ω,	1/4W,	± 5%
C302		SVITC4011BP	Integrated Circuit							
				R204		ERD25FJ272	Carbon,	2.7kΩ,	1/4W,	
	1	· ·		R205		ERD25TJ124	Carbon,	.120kΩ,	1/4W,	± 59
RANSISTO	De			R206		ERD25TJ183	Carbon,	18kΩ,	1/4W,	± 5%
I NANSISTUI	nə			R207		ERD25TJ563	Carbon,	56kΩ,	1/4W,	± 5%
21		2SD389A-Q	Transistor	R208	1	ERD25TJ224	Carbon,	220kΩ,	1/4W	
2, 3, 202		2SD637	Transistor				00.00,		.,,	1 0/
201		2SC1846-R	Transistor	0.000				45010		
				R209		ERD25TJ154	Carbon,	150kΩ,	1/4W,	± 59
203	1	2SC1328-T	Transistor	R210		ERD25TJ183	Carbon,	18kΩ,	1/4W,	± 59
				R211	i i	ERD25FJ103	Carbon,	10kΩ,	1/4W,	± 59
				R212	-	ERD25FJ121	Carbon,	120 <u>Ω</u> ,	1/4W,	± 59
DIODES				R213		ERD25FJ122		1.2kΩ,	1/4W,	± 5
	·		· · · · · · · · · · · · · · · · · · ·				Carbon,			
01	_ ∆	SVDS1RBA40	Rectifier	R214		ERD25TJ223	Carbon,	22kΩ,	1/4W,	± 59
02,301		MA1051	Diode, Zener 5.1V	R215	1	ERD25FJ472	Carbon,	4.7kΩ,	1/4W,	± 5%
0204		MA162A	Diode	R216		ERD25TJ154	Carbon,	150kΩ,	1/4W,	± 5%
				R217		ERD25TJ223	Carbon,	22kΩ,	1/4W,	± 59
0201, 202		SVDSR-105C	Light Emitting Diode		ł					
203~206		SVDEBR5505S	Light Emitting Diode	R218		ERD25FJ102	Carbon,	1kΩ,	1/4W,	± 59
0401		SVDGL-9PG2	Light Emitting Diode				1			
		1		R219		ERD25FJ332	Carbon,	3.3kΩ,	1/4W,	± 5%
	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R220		ERD25FJ221	Carbon,	220Ω.	1/4W,	± 59
		· · · · · · · · · · · · · · · · · · ·				ERD25FJ471		470Ω,	1/4W,	
CRYSTAL				R221			Carbon,			± 59
(201		SVQU306115	Crystal, 4.19328MHz Oscillator	R301		ER025CKF3301	Metal Film,	3.3k Ω ,	1/4W,	± 19
(201		150 20300115	Crystal, 4. 19320WHZ Oscillator	R302		ERD25FJ471	Carbon,	470Ω,	1/4W,	± 59
			and the second	R303		ERD25FJ822	Carbon,	8.2kΩ,	1/4W.	± 59
	·	<u> </u>		R304		ERD25FJ152		1.5kΩ,	1/4W	± 5%
VARIABLE R	RESIST	ORS								
				R306		ERD25TJ223	Carbon,	22kΩ,	1/4W,	± 5%
/R201 /R301		EVLS6AA00B54 EVMH2GA00B53	Braking Adjustment (BRAKE), $50k\Omega$ (B) Adjustment of Pitch Control $\pm 0\%$ (PITCH),	R601		ERD25FJ4R7	Carbon,	4.7Ω,	1/4W,	± 59
			5kΩ (B)		•		1			
VR302		EVLS6AA00B54	Pitch_Adjustment (Gain) 50kΩ	CAPACITORS						
VR303		EVBJ05C19ABE	Pitch Control Volume		T			470.5	501	
				C1		ECEB1HS471	Electrolytic,	470µF,	50V	
				C2		ECEA1VS330	Electrolytic,	33µF,	35V	
000000000		- -	· · · · · · · · · · · · · · · · · · ·	C3		ECEA1ES220	Electrolytic,	22µF,	25V	
SWITCHES	j			C101, 102		ECEA1VS330	Electrolytic,	33µF	35V	
S201	1	EVQP5R04K	Switch, Speed Selector (33-1/3 r.p.m.)	C103		ECEA1VS330	Electrolytic,	33µF,	35V	
S202		EVQP5R04K	Switch, Speed Selector (45 r.p.m.)	C104, 105	1	ECQM1H104KZ	Polyester,	0.1µF,	50V,	±10%
S203		SFDSSS5GL13C	Switch, Start/Stop	C106, 107		ECQM1H104KZ	Polyester,	0.1µF,	50V,	±109
5401		SFDSD2MSL-4	Switch, Stylus-illuminator	C108		ECEA1ES101	Electrolytic,	100µF,	25V	
601	▲	SFDSSS5GL-2	Switch, Power	C109, 110		ECQM1H104KZ	Polyester,	0.1µF,	50V,	±10%
5001		31 D333300L-2	Switch, FOWer			ECQM1H562KZ			50V,	±10%
				C111	ŀ		Polvester,	0.0056µF,		107
LAMP				C112		ECEA1JS4R7	Electrolytic,	4.7µF,	63V	
°L1		SFDN122-01	Lamp, Stylus-illuminator	C201		ECEA1CS330	Electrolytic,	33 µ F,	16V	
	1			C202, 203		ECEA50Z1	Electrolytic,	1μF,	50V	
				C204		ECQM1H473KZ	Polvester,	0.047µF,	50V,	±109
		L		C205		ECEA1AS221	Electrolytic,		100	
FRANSFORM	NEK -									
1		CI TEOCUTO	Power Transformer	C206		ECEA50Z1	Electrolytic,		50V	
1		SLT60EU7B	r ower Aranstormer	C207		ECCD1H101K	Ceramic,	100pF,	50V,	±109
		1		C208		ECCD1H390K	Ceramic,	39pF,	50V,	±109
	1	<u> </u>	L	C209		ECEA1ES101	Electrolytic,		16V	
FUSE				1						± 1 00
	- I -			C210	l I	ECQM1H224KZ	Polyester,	0.22 µF,	50V,	±10%
1		XBA2F03NU100	Fuse, 350mA	C211		ECQM1H473KZ	Polyester,	0.047µF,	50V,	±109
	1	1.		C212		ECEA50Z3R3	Electrolytic,	3.3µF,	50V	
FOIOTOSC		· · · · · · · · · · · · · · · · · · ·		C213		ECCD1H471K	Ceramic,	470pF,	50V,	±10
ESISTORS			$(1 - 1)^{-1} = (1 -$	C214	l I	ECEA1ES101	Electrolytic,		25V	
1		ERD25FJ562	Carbon, 5.6kΩ, 1/4W, ± 5%				Electrolytic,			
				C215		ECEA50Z1	Lectrolytic,	1 μ Ε,	50V	
2		ERD25FJ682	Carbon, $6.8k\Omega$, $1/4W$, $\pm 5\%$							
13	1	ERD25FJ272	Carbon, $2.7k\Omega$, $1/4W$, $\pm 5\%$	C216		ECEA1ES470	Electrolytic,	47µF.	25V	
14	1.	ERD25FJ561	Carbon, 560Ω, 1/4₩, ± 5%	C301, 302	▲		Polyester,		125V,	± 19
					<u> </u>					
15		ERD25FJ471	Carbon, 470Ω , $1/4W$, $\pm 5\%$	C303	1	ECEA50Z1	Electrolytic;		50V	
:101		ERD25FJ103	Carbon, 10kΩ, 1/4W, ± 5%	C304		ECEA1HS100	Electrolytic,	10µF,	50V	
102		ERX1ANJ4R7	Metal Film, 4.7Ω , 1W, $\pm 5\%$	C305		ECQM1H122KZ	Polyester,	0.0012µF,		±10
103					1					
		ERD25FJ472	Carbon, $4.7k\Omega$, $1/4W$, $\pm 5\%$	C306		ECEA50Z1	Electrolytic,		50V	
104		ERD25TJ473	Carbon, 47kΩ, 1/4W, ± 5%	C601 [M]		ECQF1A473MD	Polyester,	0.047µF,	400V,	±20
105		ERD25FJ103	Carbon, 10kΩ, 1/4W, ± 5%	C601 [MC]	▲	ECQU1A473ME	Polyester,	0.047µF,		±20
		ERD25FJ150						, . .,	,	
		LEUTSLOLD ION	Carbon, 15Ω, 1/4W, ± 5%		1	1	1			
106 107	٨	ERX1ANJ1R5	Metal Film, 1.5Ω , 1W, $\pm 5\%$							

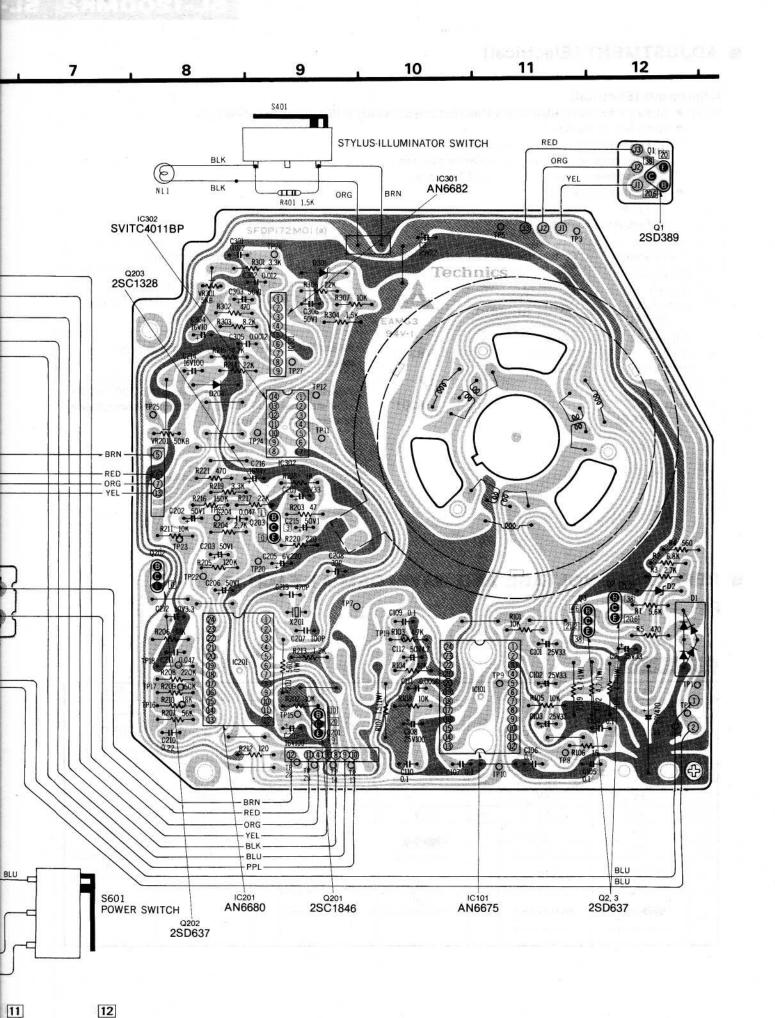
TERMINAL GUIDE OF TRANSISTOR AND IC

AN6675	AN6680	AN6682	SVITC4011BP	2SC1846	2SC1328	2SD637	2SD389
		WWWWWWW 123456789		E CB	E C B	E C B	BCE

TROUBLE SHOOTING







SL-1200MK2 SL-12

■ ADJUSTMENT (Electrical)

Adjustments (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
Adjustment of pitch control ±0% (PITCH)	Frequency counter ⊕ — TP27 ⊖ — GROUND	VR301	 Pitch control switch to center position. Adjust VR301 for 262.08 kHz ±0.05 kHz of frequency.
Adjustment of pitch control gain	Tester TP31 and TP32	VR302	Adjust VR302 for 2.7 k Ω ±0.1 of resistance value
Braking adjustment (BRAKE)	_	VR201	Adjust VR201 for complete stop within 120° ~ 270° after stop signal initiated. (Turntable becomes free a few seconds after stop) STOP SIGNAL
	Adjustment of pitch control ±0% (PITCH) Adjustment of pitch control gain Braking adjustment	Adjustment of pitch control ±0% (PITCH)Frequency counter ⊕ — TP27 ⓒ — GROUNDAdjustment of pitch control gainTester TP31 and TP32Braking adjustment—	Adjustment of pitch control ±0% (PITCH)Frequency counter (P — TP27 \bigcirc — GROUNDVR301Adjustment of pitch control gainTester TP31 and TP32VR302Braking adjustment—VR201

REFERENCE VOLTAGE AND WAVEFORM AT EACH IC PIN

IC101 (AN6675)

	Start	Stop		Start	Stop	-	Start	Stop
0	2V	2V (* 93						20 µ ş
2	2V	2V 1.9.0	12	<u> </u>	15V	18	Same as at right	
3	0V	ov			124		Same as at right	
۲	5V	SV						1
6	5V	SV 5,00	13	15V		19	20V	20V 20.8
6	5V6.5	6.6V 6.5		•	T-	20	20V	20V 20.8
1	0V	0V ¢	8	15V	15V (S.S	21	20V	20V 20.6
8	5V	5V 4.8			2044	22	0.2V	0.2V .
9	0V	0V ø	15	15V		23	20V	20V 20.8
10	<u>+</u> 15V	15V 15.5		• • •		20	1.7V	1.7V1.9
		101 15.1	16	0V	0V Ø			
		······································	Ø	15V	15V 5.6			
1	15V	150						
		+						

2 3 4

IC

1

5 6 7

IC

1

3

1C3

٩

SL-1200MK2

IC201 (AN6680)

a de	Start	Stop	1.1	Start	Stop and Stop		Start web start	Stop reserved
1	2.5V	2.5V	8	0V	0V	16	5V	2.5V2.0V
			9	9.8V	9.8V	Ø	5V	5V
2	Same as at right		10	10V	10V 9,3V	18	0V	0V 2.21
					- 10ms	19	7.5V	0V7,6V
			1	Same as at right	0.8∨	20	0V	5V S.QV
3	Same as at right					21	1.5V	0V
		•	12	0V	0V	22	3V	3V
۲	Same as at right		13		0.2V	3		3V
5	Same as at right		٩			29	2.8V	2.8V
6	3.4V	3.4V	15		937			•
1	0V	0V	UD/	5v 5.5v	8V			

IC301 (AN6682)

	Start	Stop		Start	Stop		Start	Stop
0	Same as at right		٩	Same as at right		8	Same as at right	
			5	0V	0V	9	9V	9V 9.4
2	Same as at right	10 1.50	6	3.9V	3.92 4.4			
3	Same as at right		1	Same as at right				
1								

IC302 (SVITC4011BP)

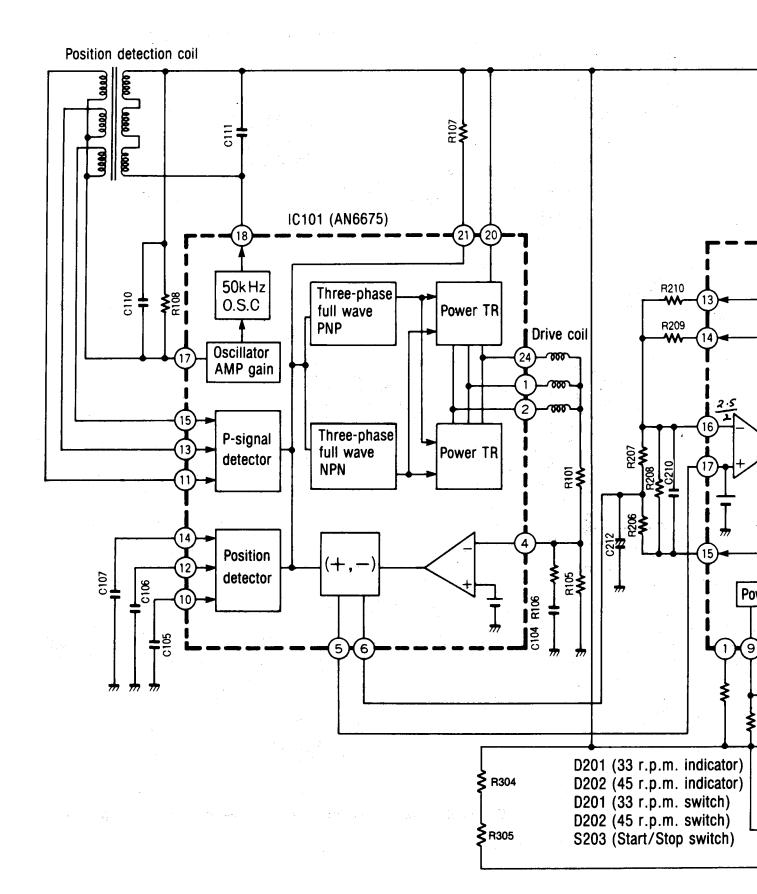
	Start	Stop		Start	Stop		Start	Stop
					·	9	5V	75V .4
1	Same as at right	JUT_	5	Same as at right	5	10	5V	SVGD
						1	5V	5V 5.2
2	5V	sv G, Y	6	5V	5V 5.2	12	0.6V	0.6V v
		-+ ⁴⁴ +	Ī	0V	ov (s	13	0.6V	0.6V Y
3	Same as at right	5				1	5V	5V 5.2
			8	Same as at right				1
4	5V	5V 2.9						/

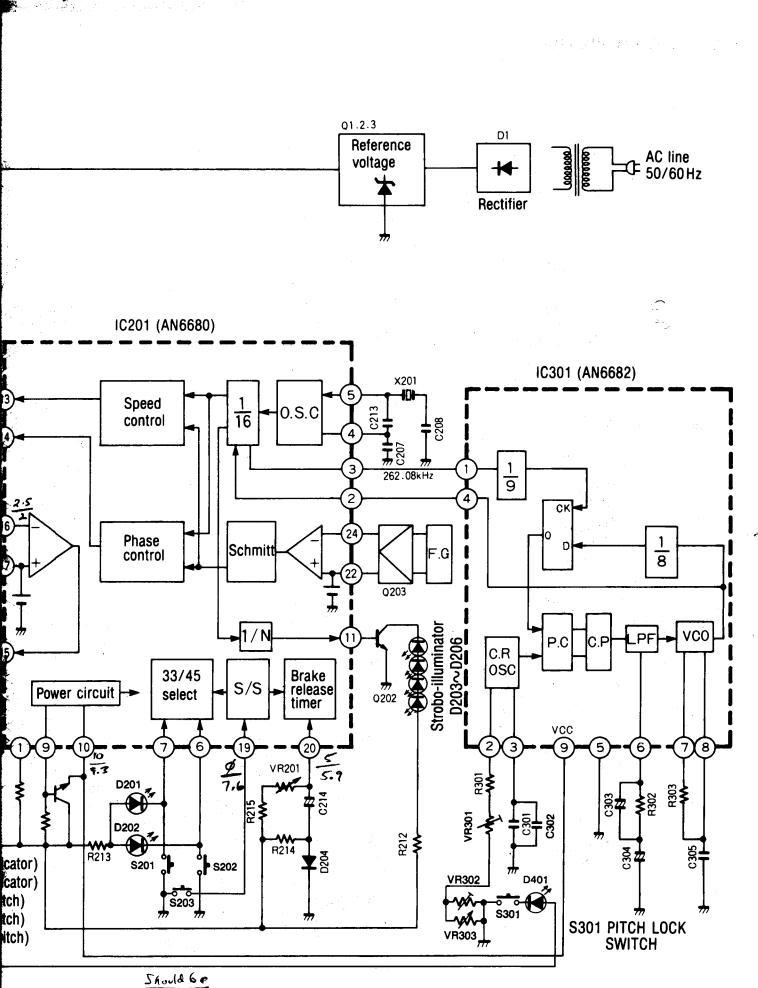
Q202 (2SD637)

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

appears lo be doc error 9 on schem, pm 9 is hied to pms 12×13

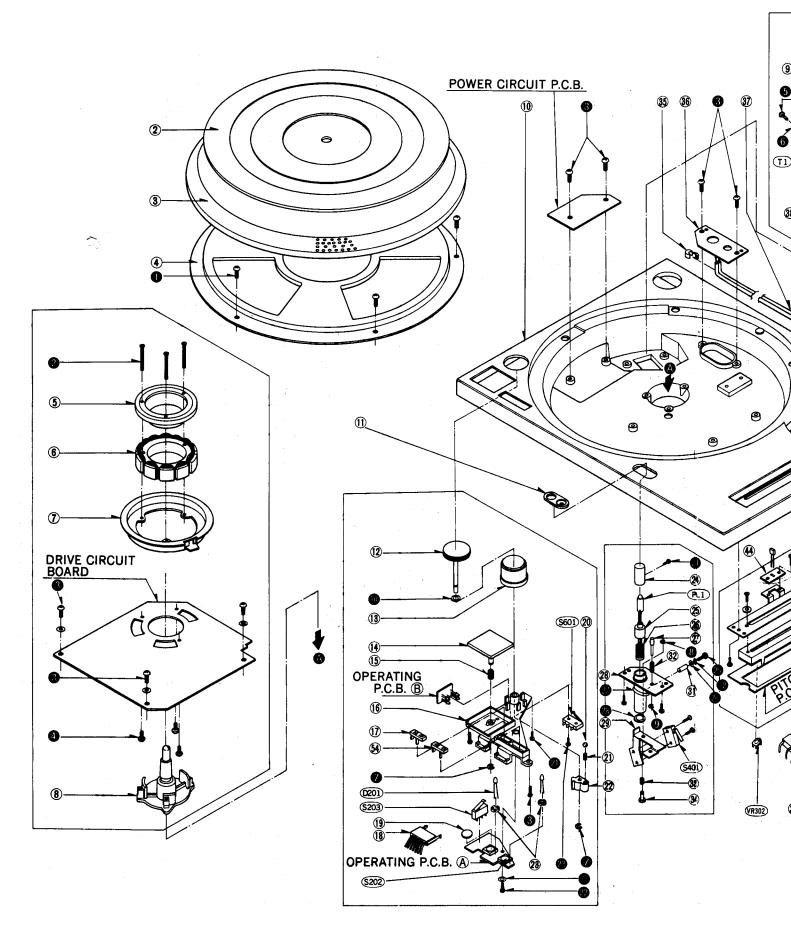
BLOCK DIAGRAM



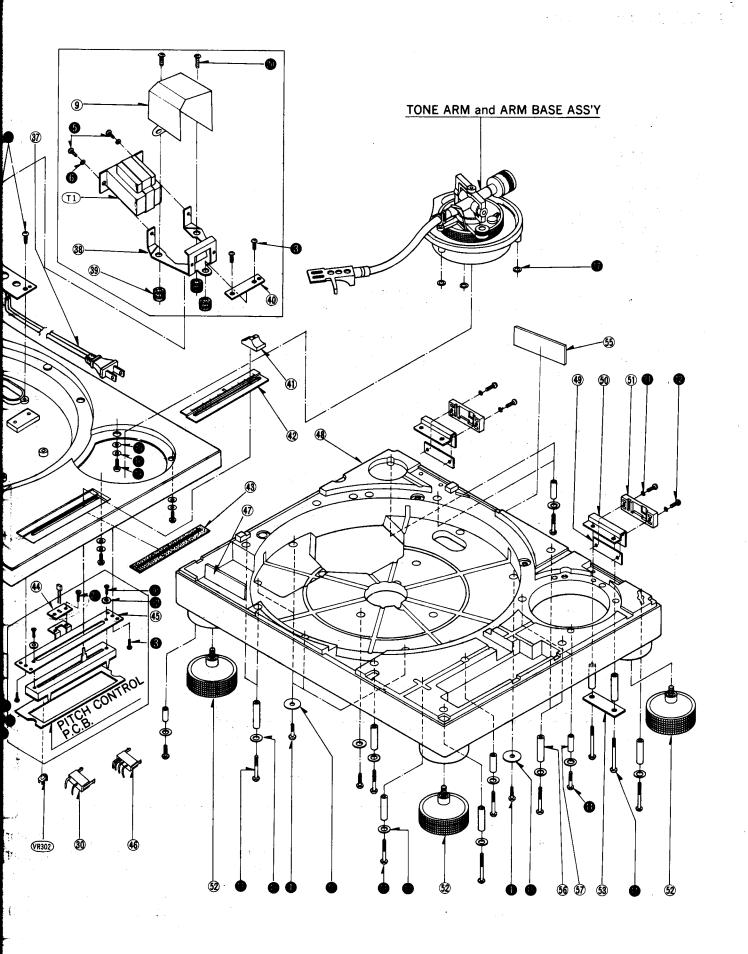


16 Missure

EXPLODED VIEWS



L-1200MK2



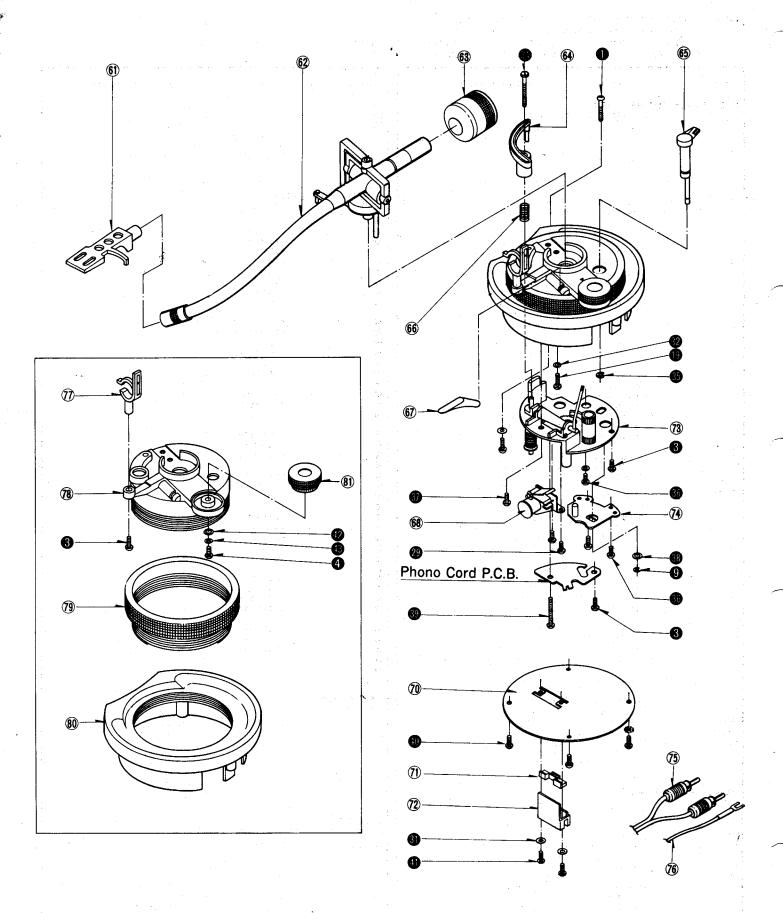
REPLACEMENT PARTS LIST (Mechanical)

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

- Please use this part number for parts orders.
 - 2. \triangle indicates that only parts specified by manufacturer be used for safety. 3. SL-1200MK2(M) \Rightarrow [M], SL-1200MK2(MC) \Rightarrow [MC]

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
ABINET and CI	ASSIS PARTS		75 [M]	SFDH360M01	Phono Cord
	SFAD122-01A	Dust Cover	75 (MC)	SFDH028-01	Phono Cord
	SFTG172-01	Turntable Mat	76	SFEL 028-01E	Ground Wire
		Turntable	77	SFPRT17201K	Arm Rest
3	SFTE172-01Z		78	SFPKD17203	Arm Base
,	SFUM172-05	Cover, Turntable	79	SFPKB17201S	Ring, Arm Base Operation
5	SFMGQ20-01	Cover, Stater Frame Ass'y	80	SFPKD12201	Bracket, Arm Base
3	SFMG520-31A	Stater Frame			Knob, Anti-skate Force Control
,	SFMZ172-01E	FG Detector Coil Ass'y	81	SFPAB17206	Knob, Anti-skate Force Control
3	SFMZQ20-01A	Shaft, Stater Frame Ass'y			
	SFUP122-12	Plate, Shield	SCREWS, WAS	HERS and CIRCLIPS	
2				XTN3+8BFZ	Screw
)	SFAC122-01	Cabinet		SFXGQ20-02	Screw
	· · · ·				
	SFUM172-04	Ornament, Stylus-illuminator		XTN3+8B	Screw
	SFKT122-01	Knob, Power Switch	0	XTN26+6B	Screw
	SFKK122-01E	Case, Strobe-illuminator		XTN4+10B	Screw
	SFKT015-06	Knob, Start/Stop Switch		XWA4B	Washer
	SFQA122-01	Spring, Start/Stop Knob		XUC3FT	Circlip
	SFUN122-01	Base, Operation		XUC2FT	Circlip
				XUC25FT	Circlip
	SFKT015-01E	Knob, Speed Selector (33-1/3 r.p.m.)			
3	SFDJ122-02E	Connector, 7-PIN		SFXW910J02	Washer
)	SFGZ122-01	Spacer, Rubber (Speed Selector)			
)	SFYB5-32	Ball, Switch Cam		XTN3+40BFZ	Screw
				XSN3+10BVS	Screw
s je rec	SFQA520-01	Spring, Switch Cam		XWE3F12FZ	Washer
			liă	XTN3+25BFZ	Screw
	SFUM122-03	Cam, Switch			•
	SFUM015-11	Spacer, LED		SFXW122-01	Washer
1	SFKK172-01	Cover, Lamp		XWE3E10	Washer
	SFXB122-02	Boss, Drive	110	SFPEW1100	Washer
3	SFQA172-01	Spring, Drive Boss		SFPEW11003	Washer
	SFXJ172-01	Pin, Lock Canceler		XSN3+8S	Screw
				SFXG132-01	Screw
3	SFUP122-02E	Bracket, Stylus-illuminator		3FXG132-01	Screw
	SFUP122-03	Plate, Lock OPeration			
)	SFDJ122-03E	Connector, 3-PIN		XTV3+8BFN	Screw
· · · ·				XTN3+10B	Screw
	SFX0172-01	Pin, Guide		XTN2+10B	Screw
2	SFQA520-01	Spring, Lock Canceler Pin		XSN17+3FY	Screw
				XSN3+145	Screw
3	SFQA001-02	Spring, Lock Operating Plate M'tg		SFXW172-04	Washer
۱	SFXJ172-05	Pin, Lock Operating Plate M'tg			
5 · ·	SFHK040L	Clamper, AC Cord		XUB14FT	Circlip
3	SFUP025-01	Bracket, AC Cord		SFUZ172-05	ORing
,	RJASYA	AC Cord		XTN3+6B	Screw
3	SFUP132-03	Bracket, Power Transformer	· 11 🍝	XSN3+6S	Screw
í l	SFGC122-01	Cushion, Power Transformer		XWA3BFZ	Washer
				XWA3B	Washer
)	SFUP122-10	Spacer, Power Transformer			1 -
			tar tar	XWG3	Washer
	SFKT122-02	Knob, Pitch Control Volume		SFXG829-1	Screw
1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 -	SFKK122-03	Ornament, Pitch Control Volume		XUC6FT	Circlip
	SFUZ122-01	Shading Cloth, Pitch Control Volume		XTW3+6B	Screw
	SFUP122-09	Holder, LED	IIĂ	XTV3+6BFN	Screw
	SFUP122-01	Bracket, Pitch Control Volume		XWE4A10EW	Washer
				AMEGAIVEN	T tasher
	SFDJ122-01E	Connector, 4-PIN		VTN2-250	Corous
	SFUP122-13	Supporter, Bottom Base		XTN3+25B	Screw
	SFAU122-01	Base, Bottom		XYN3+C6FZS	Screw
	SFUP122-05	Supporter (A), Hinge		XSN3+12BVS	Screw
	SFUP122-04	Supporter (B), Hinge		SFPEW17201	Washer
			l l 🍝	XWG26	Washer
	SFUM170-07	Case Hinge	11-		
.		Case, Hinge	11		
	SFGC122-02E	Audio Insulator	ACCESSORIES	6	· · · · · · · · · · · · · · · · · · ·
3	SFUP122-06	Supporter (C), Hinge	ACCESSORIES		
	SFKT015-02E	Knob, Speed Selector (45 r.p.m)	A1 [M]	SFNU122M01	Instruction Book
[M]	SFNN122M01	Name Plate	A1 [MC]	SFNU122C01	Instruction Book
5 [MC]	SFNN122C01	Name Plate		SFWE010	Adaptor, 45 r.p.m.
6	SFX0122-01	Dime (A)	A2		
			A3	SFPEN3302	Nut, Cartridge
7	SFX0122-02	Pipe (B)	A4	SFPEW9601	Washer, Cartridge
3	SFAT122-01A	Hinge Ass'y	A5	SFCZV8801	Screw, Cartridge
			A6	SFPEV9801	Screw, Cartridge
				SFK0135-01	Overhang Gauge
ONE ARM and	ARM BASE				Shell Weight
			A8	SFPZB3501	Shell Weight
1.	SFPCC31001K	Head Shell			
2 .	SFPAM18201K	Tone Arm Ass'y	PACKINGS		
3	SFPWG17201K	Balance Weight Ass'y		· · · · · · · · · · · · · · · · · · ·	
4	SEPRT18201K	Lift Ass'y	P1 [M]	SFHP122M01	Carton
5	SFPZB17202	Knob, Arm Base Lock	P1 [MC]	SFHP122C01	Carton
				SFHH122-01	Pad, Front
6	SFQA829-03	Spring, Lift Ass'y	P2		
7	SFPAB13202	Knob, Arm Lift	P3	SFHH122-02	Pad, Rear
з [SFPJL18202K	Oil Damper	P4	SFHD122-01	Pad, Top
Ď	SFPZB12203	Plate, Arm Base Cover	P5	SFHD122-02	Pad, (A), Turntable
1	SFUM170-06	Spacer, Phono Cord	P6	SFHD122-03	Pad, (B), Turntable
1			P7	SFYH60X60	Polyethylene Cover, Turntable Unit and
2	SFPZB12204	Clamper, Phono Cord			
3	SFPAB18201K	Tone Arm Fixing Plate Ass'y Plate, Position Fix	P8	:	Dust Cover Polyehtylene Cover, Turntable
	SFP ZB12201K			SFYH40X45	

EXPLODED VIEWS



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