

# Service Manual

**QUARTZ** Synthesizer

Direct Drive Automatic Turntable System

## SL-1300MK2 (M)



• The model SL-1300MK2 (M) is available in America only.

### SPECIFICATIONS

(Specifications are subject to change without notice for further improvement)

#### General

**Power supply**

**Power consumption**

**Dimensions  
(H x W x D)**

**Weight**

**Turntable section**

**Type**

**Drive method**

**Motor**

**Drive control method**

**Turntable platter**

**Moment of inertia**

**Turntable speeds**

**Turntable speed fine adjustment**

**Starting torque**

**Build-up characteristics**

**Braking system**

**Speed fluctuation due to load torque**

AC 120 V, 50 or 60 Hz

12W

14.5 x 45.3 x 38.4 cm  
(5-45/64 x 17-45/64 x 15-7/64 inches)

11.8 kg (26.0 lb)

Quartz-phase-locked control direct drive automatic turntable with quartz synthesizer pitch control, Automatic start, Automatic return, Momo-repeat play and Manual play

Direct Drive

Brushless DC motor

Quartz-phase-locked control

Aluminum die-cast, diameter 33 cm (13"), weight 2.5 kg (5.5 lb.)

340 kg·cm<sup>2</sup> (116 lb·in<sup>2</sup>)

33-1/3 and 45 r.p.m.

Adjustable up to ±9.9% in 0.1% increments by digital indication

1.5 kg·cm (1.3 lb·in)

90° or 1/4 rotation to 33-1/3 rpm

Electronic brake

0% within 1.5 kg·cm (1.3 lb·in)

#### Speed drift

**Wow and flutter**

Within 0.002%

0.025% WRMS (JIS C5521)

±0.035% weighted zero to peak (DIN 45507)

-50 dB (DIN 45539A)

-73 dB (DIN 45539B)

#### Rumble

#### Tonearm section

##### Type

Gimbal suspended universal "S" shaped tubular arm, static-balanced type

230 mm (9-1/16")

15 mm (19/32")

+3° at the outer groove of 30 cm (12") record

+1° at the inner groove of 30 cm (12") record

21.5°

Less than 7 mg (lateral, vertical)

22 g (with a cartridge weighing 6 g at 1.75 g stylus pressure)

#### Effective length

#### Overhang

#### Tracking error angle

1 mm steps a range of 6 mm

0 ~ 3 g

#### Cartridge weight range

5-11 g

12.7 mm (1/2") mounting space dimensions

1.2 mm, for 4-pin terminal

## ■ FEATURES

Encounter two separate isolation stages. The first stage effectively damps out harmful external vibrations which may reach the unit through its resting surface. The all-important turntable, motor and tonearm assembly are then supported on a second isolation system. These isolators are specially designed with material and springs of calculated, finely-tuned elasticity to absorb external vibrations.

Isolation from feedback lets you enjoy clear, transparent sound even at high volume levels.

**Technics unique motor construction in which the rotor of the motor is integrally formed with the turntable.**

High torque motor delivering 1.5kg·cm makes it possible to reach 33-1/3 r.p.m. from standstill within 0.7 sec. (1/4 rotation) and to effect instantaneous speed change. (Fig. 1).

Superior load characteristic of 0 rotational deviation even at a stylus pressure of 300 g. (Fig. 2).

High performance with wow and flutter of only 0.025% (JIS C5521) and rumble of -73 dB (DIN 45539B).

Since the development of the DD turntable, Technics has continually strived for further improvement of player performance and has introduced numerous high performance models on the market.

The SL-1300MK2 series is brought into being by combination of experience and research.

The characteristic values of rumble -73 dB (DIN 45539B) and wow and flutter of 0.025% (W.R.M.S JIS C5521) by far exceed the standards to which record albums are made.

### Quartz Controlled Rotation Accuracy

The SL-1300MK2 utilizes the oscillation of a quartz crystal as a reference signal or source. This oscillation is not affected by temperature change or power fluctuations. By synchronizing the rotation of the turntable platter accurately to the reference signal, speed drift of the SL-1300MK2 is held within  $\pm 0.002\%$ . This means that for a record with a playing time of 30 min, total playing time variation can amount to no more than 0.036 sec. This stable and accurate rotation sets a new standard of precision.

The accuracy under controlled operating conditions as in a listening room is about  $\pm 0.00001\%$  as shown in Fig. 3.

### Highly sensitive universal tonearm.

For the finest tracking sensitivity, the tonearm rests in a gimbal suspension equipped with two pairs of low friction pivot bearings. Gimbal suspension and low tonearm mass means that accurate tracking is possible at tracking forces as low as 0.25 grams. With enhanced rotational sensitivity of 7 mg. the tonearm is allowed free, gyroscopic movement to ensure flawless balance during tracking. The longer-than-usual effective tonearm length (9-1/16" or 230 mm, stylus to pivot) contributes to the arm's low tracking error, and this in turn facilitates the design of the anti-skating control for precise and reliable tracking. With this design, a single precise anti-skating scale counteracts side thrust for all types of styli.

Arm height is adjustable within a range of 6 mm to accomodate varying cartridge dimensions.

Resonance damped headshell with unique overhang adjuster.

Low capacitance phonocables.

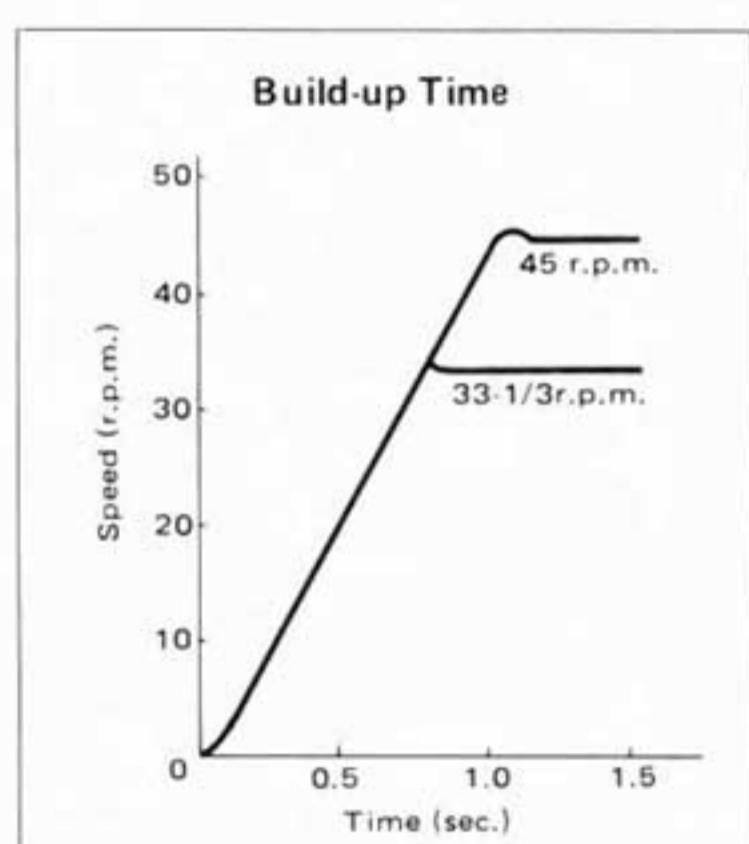


Fig. 1

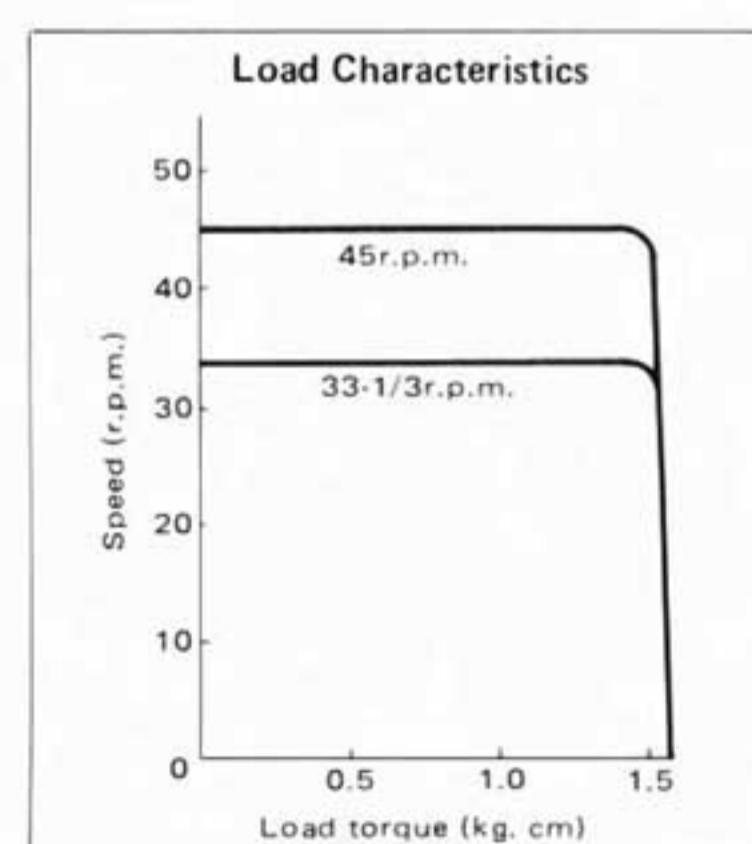


Fig. 2

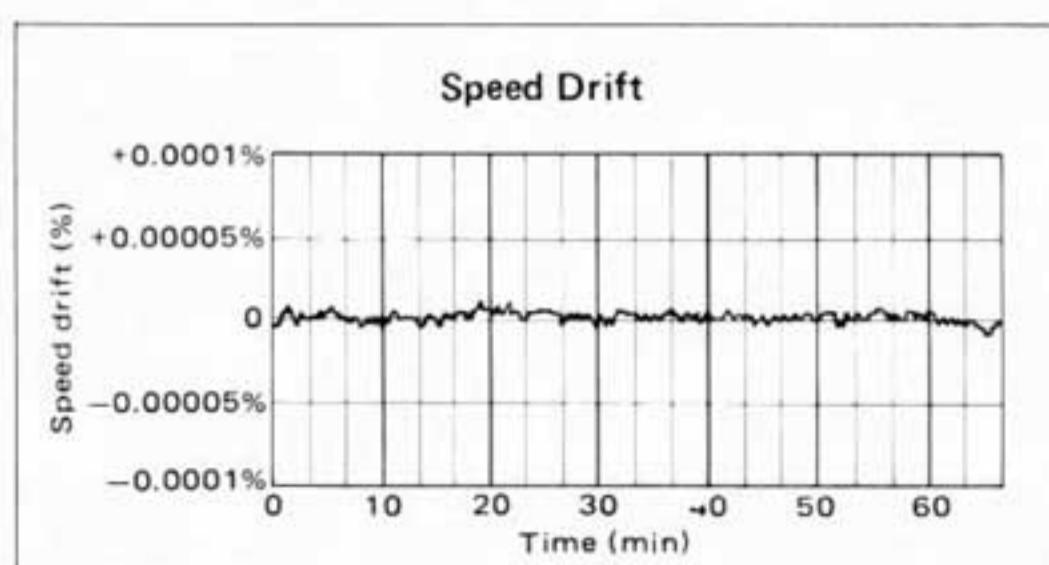


Fig. 3

## ■ CROSS SECTION OF MOTOR PORTION AND DOUBLE INSULATOR

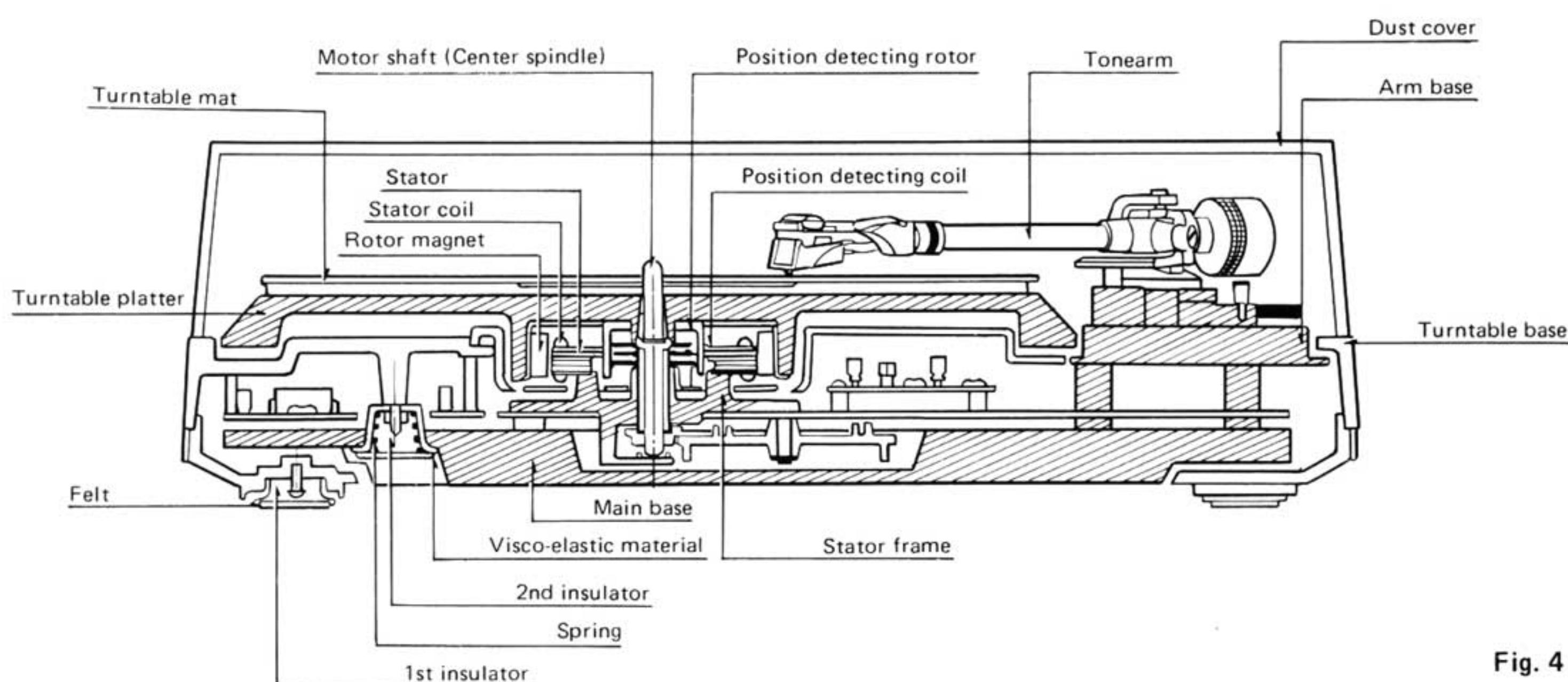


Fig. 4

## ■ PARTS IDENTIFICATION

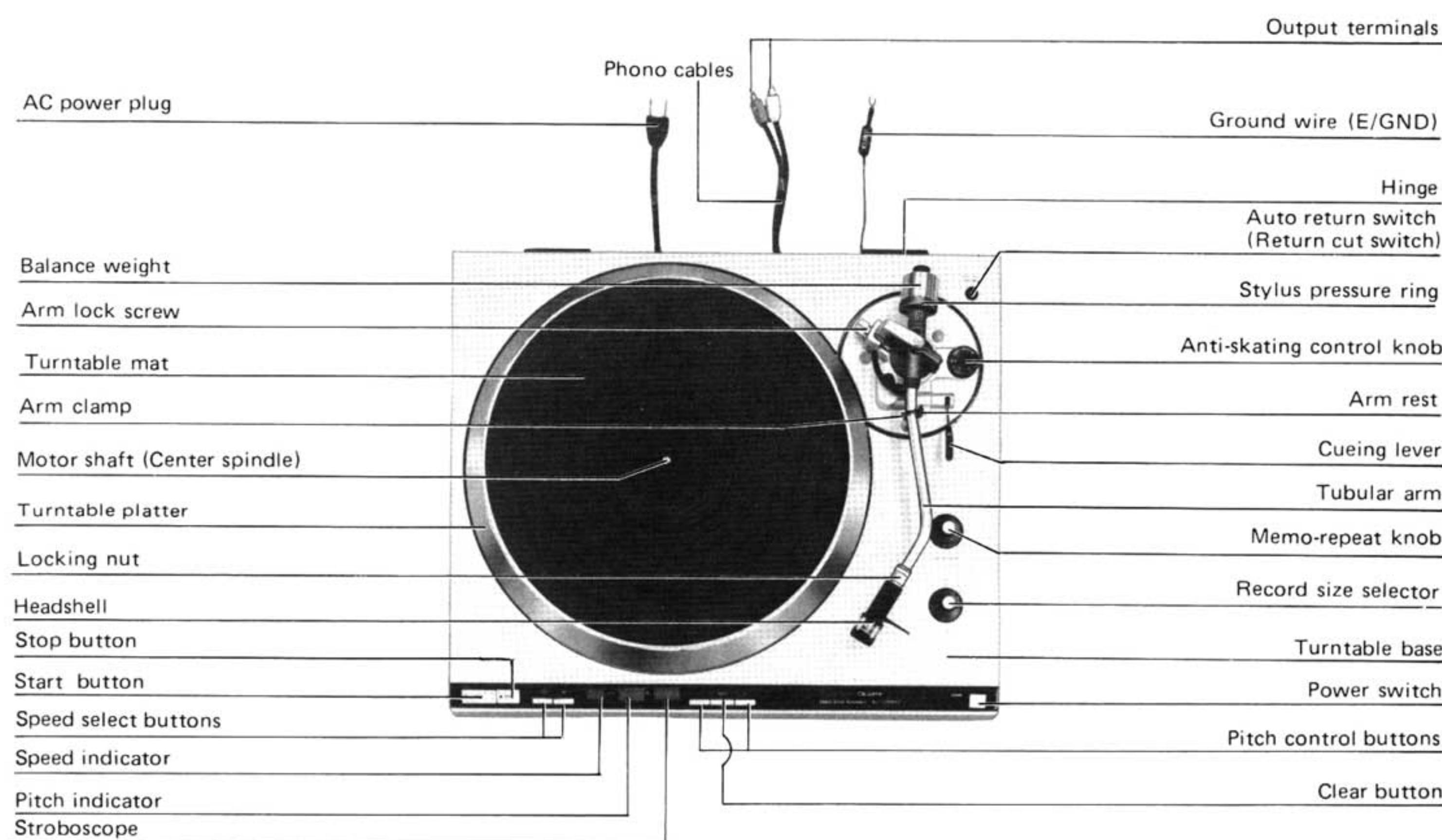


Fig. 5

## ■ TO REMOVE CABINET AND BOTTOM COVER

1. Remove headshell and balance weight.
2. Clamp tone arm to the arm rest.
3. Remove turntable platter.
4. Close dust cover.
5. Turn unit upside down taking special care not to damage or scratch the dust cover.
6. Remove the 7 screws from bottom cabinet (Fig. 6).
7. Remove the 4 screws from main base (Fig. 7).
8. Holding the player firmly with both hands, to prevent separation of upper section (turntable base) from lower section (main base), turn it carefully upwards.
9. Remove dust cover.
10. Remove the 6 screws from the panel cover (Fig. 8).
11. Unplug the 5 plug-in connectors and 1 cord clamp (Fig. 9).
12. To remove the turntable base from the main base bottom section, turn cueing lever upward (cueing position) and move tone arm towards center of spindle. Top section can be lifted up easily.
13. To reassemble, perform steps 1 through 12 in reverse.

### Note:

The turntable horizontally to the panel face is already adjusted before shipment.

If deviated, correct it by means of the adjust screws using a 5 mm box spanner.

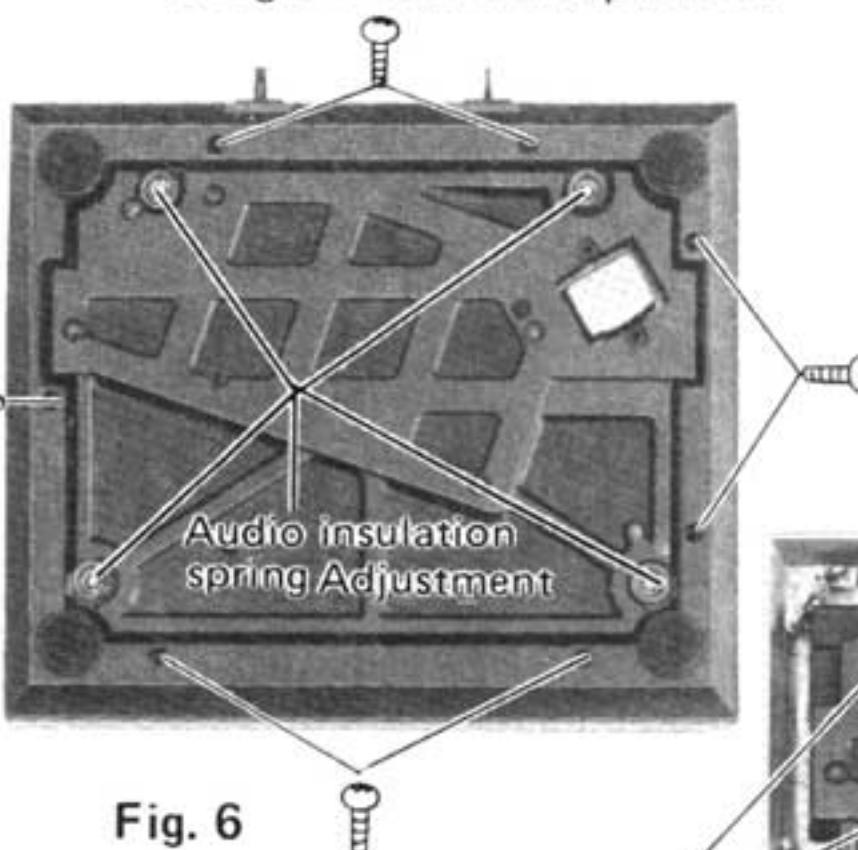


Fig. 6

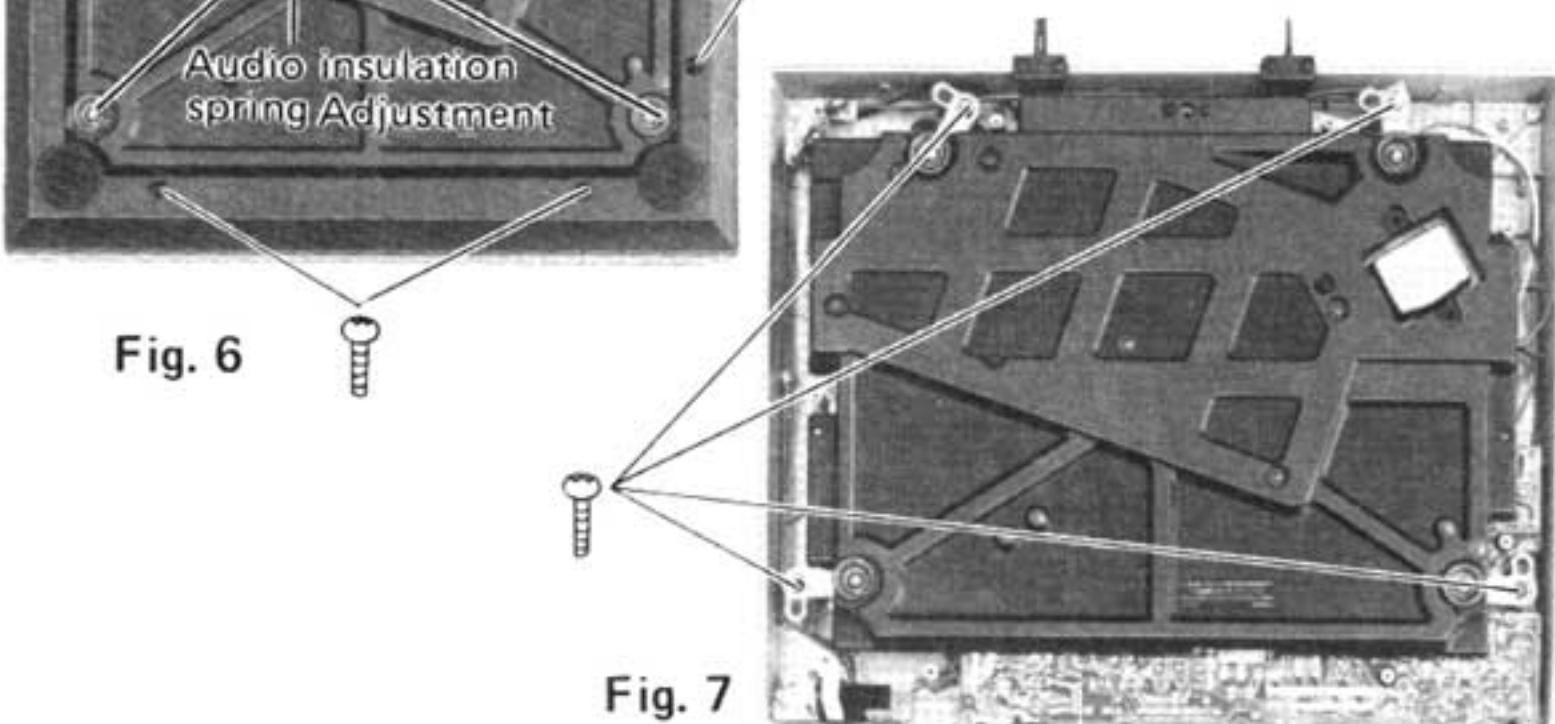


Fig. 7

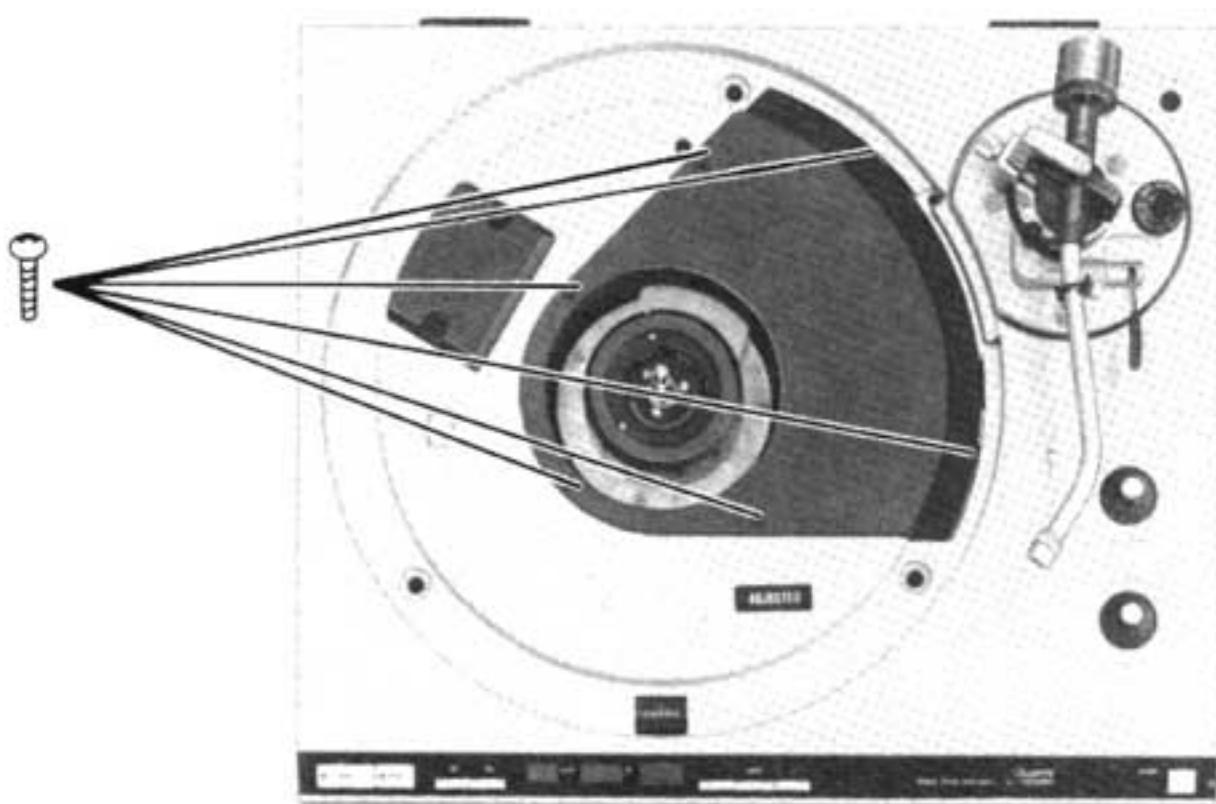


Fig. 8

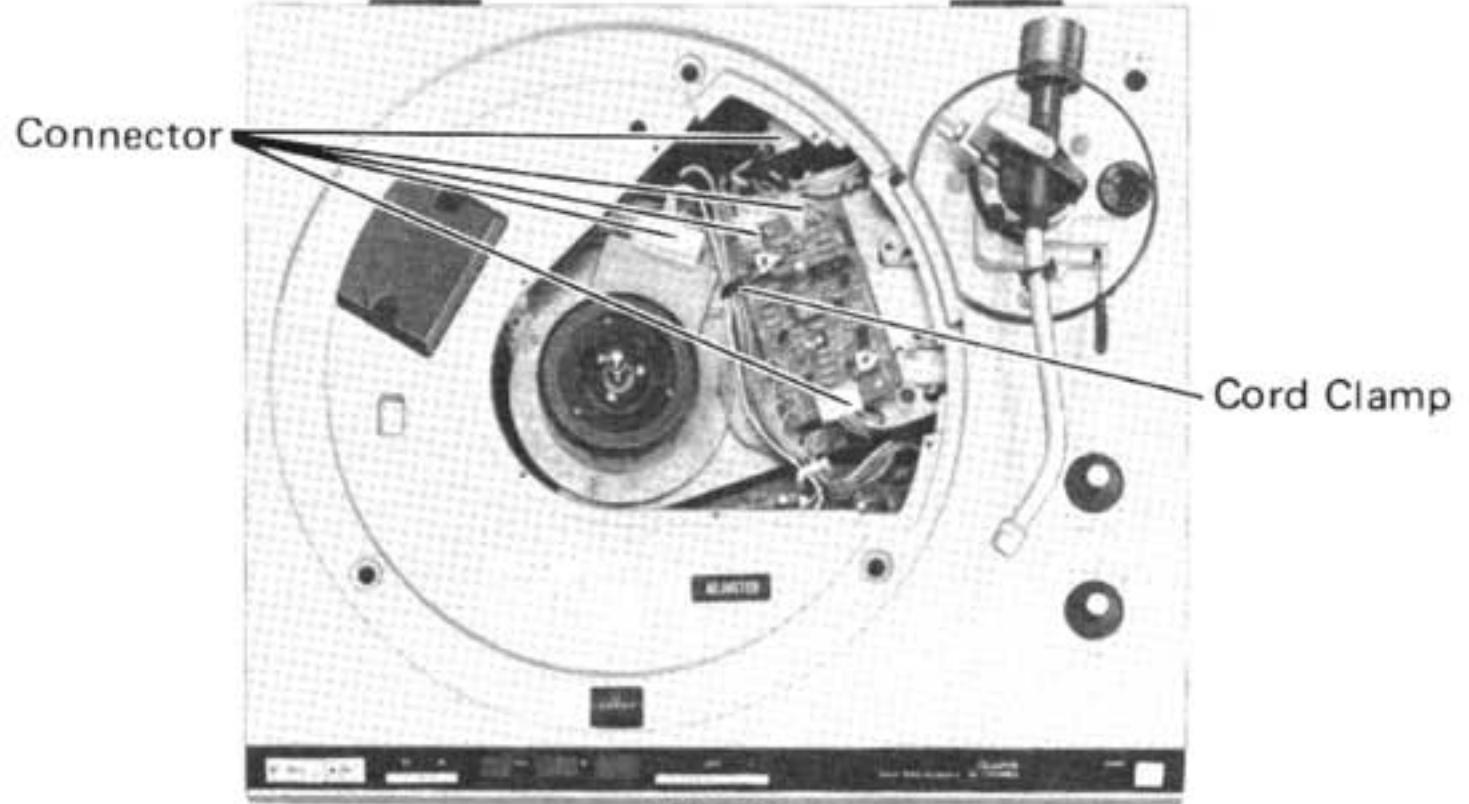
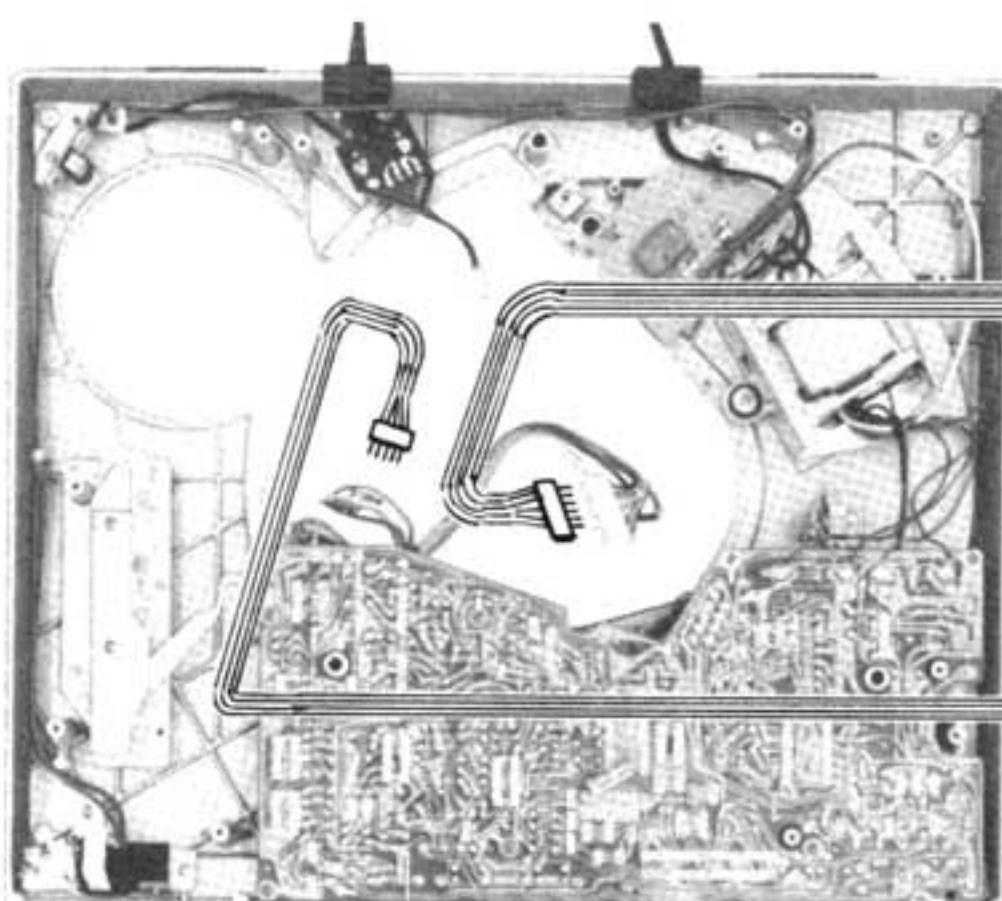


Fig. 9

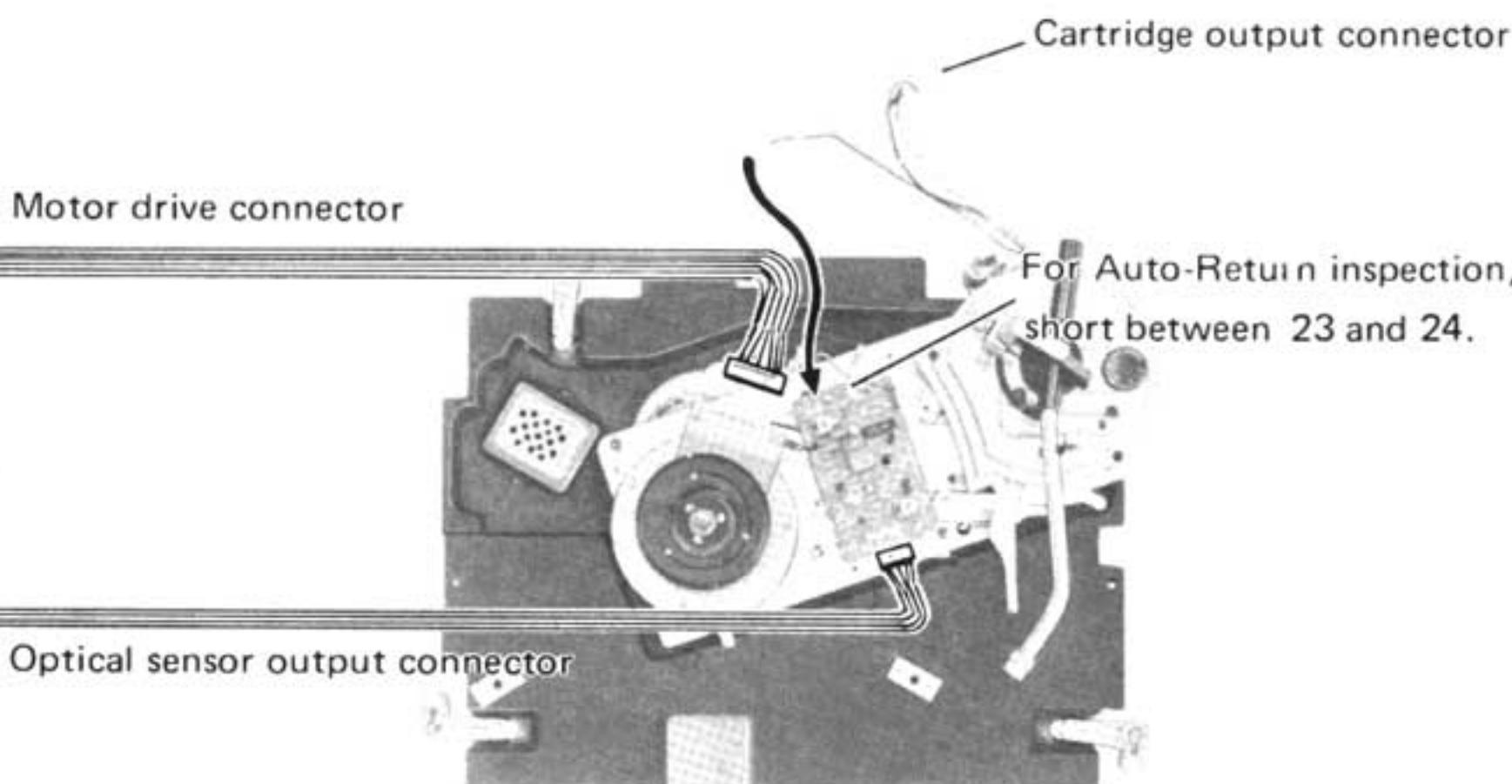
## ■ CONNECTOR CONNECTION POINTS FOR INSPECTION

Connect the disassembled main unit and main base as shown in the Figure below.



Motor drive connector

Optical sensor output connector



Cartridge output connector

For Auto-Return inspection,  
short between 23 and 24.

Fig. 10

# ■ HOW TO PLAY

## Manual play

Place a record on the turntable platter.

Push the 45 r.p.m. speed select button if you play a 45 r.p.m. record. (See Fig. 11).

Note:

Since the unit has been designed to select 33-1/3 r.p.m. automatically each time you push the power switch on, push the speed select button if you play a 45 r.p.m. record.

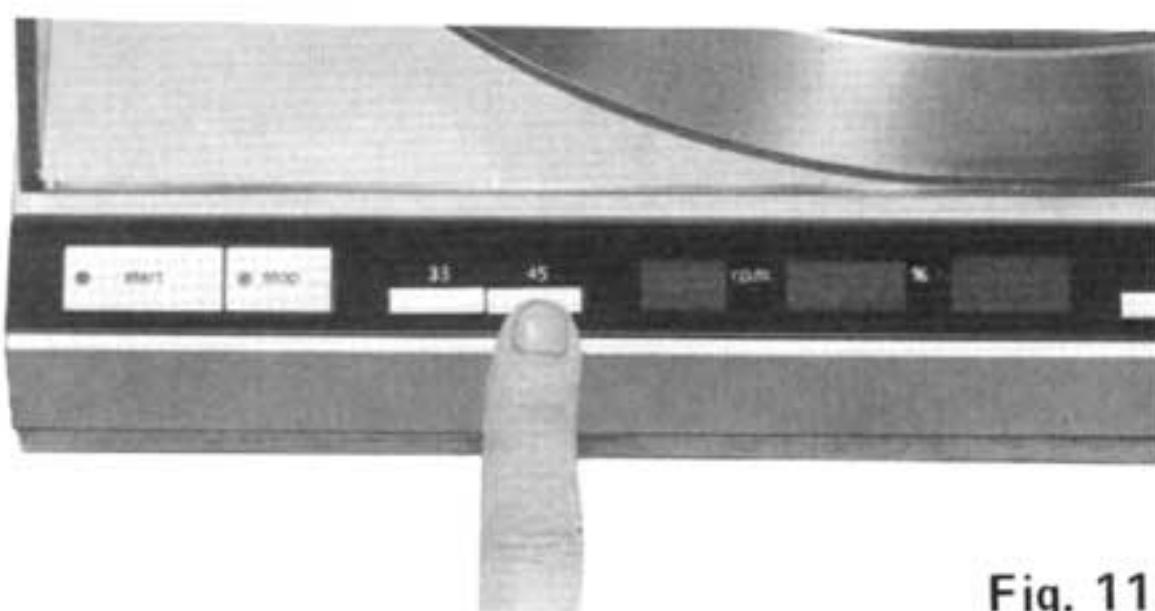


Fig. 11

Move the tonearm manually over the record, the turntable will start to rotate. Lower the cueing lever.

The tonearm will descend slowly onto the record and play will begin.

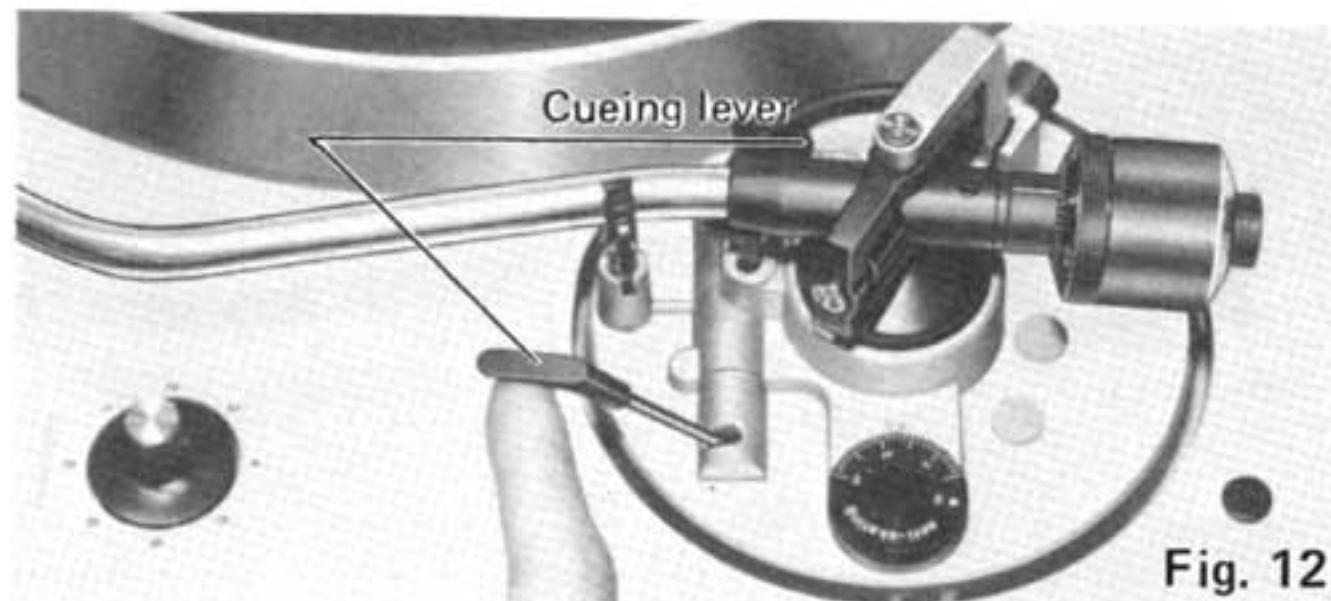


Fig. 12

When finished, the tonearm will automatically return to the arm rest (auto return) and the turntable platter will stop rotation.

Note:

- To shut the power off the power switch must be pushed again to the off (■).
- If the "memo-repeat" knob is in a position other than "0", play will be repeated by the number of time set, therefore, be sure to keep the "memo-repeat" knob in the "0" position.
- If you play a 45 r.p.m. record with a large center hole, use the furnished adaptor on the center spindle.

## Automatic play

Push the power switch to the ON position (■).

The speed indicator for 33-1/3 r.p.m. the pitch indicator and stroboscope will all light up.

Place a record on the turntable platter.

Release the arm clamp.

Remove the stylus cover if your cartridge has one.

Set the record size selector to the diameter of the record (7", 10" or 12") you wish to play.

Push the start button. (See Fig. 13).

The tonearm will move and descend according to the size selected and start play (Automatic start).



Fig. 13

When finished play, the tonearm will automatically return to the arm rest and the turntable platter will stop rotation.

Note:

- Records with dimensions other than 7" (17 cm), 10" (25 cm) and 12" (30 cm) diameter must be played "Manually".

## Repeat play

This unit employs a unique feature the "Memo-repeat". You can play a record repeatedly from one to six times or continuously by setting this knob to the desired position.

Set the "memo-repeat" knob to the desired number you wish to play. (See Fig. 14).

"R" position enables you to repeat play continuously.

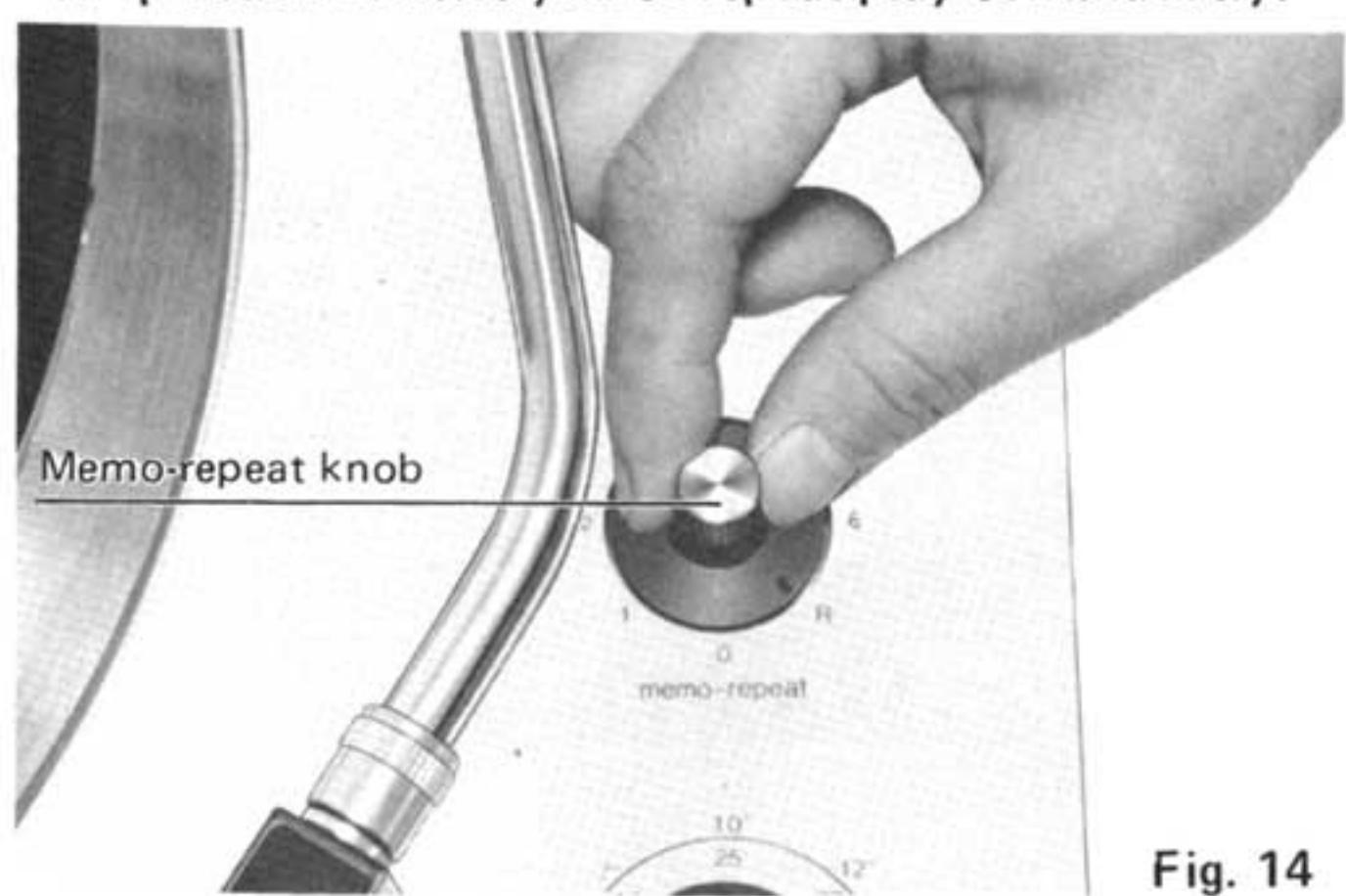


Fig. 14

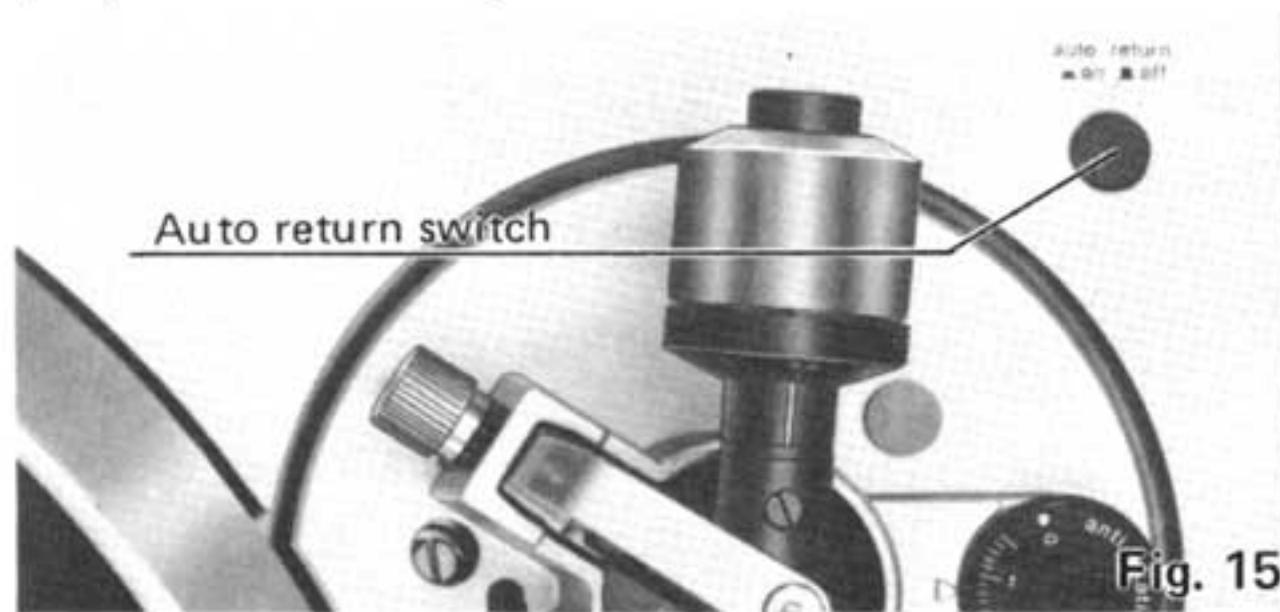
Note:

For suspension of play, be sure to push the stop button after having set the "memo-repeat" knob to "0".

## ■ HOW TO USE AUTO RETURN SWITCH

This unit employs a unique "auto return switch" (return cut switch).

- Should any phono disc whose central hole is off center be played, the tonearm will automatically return during the course of performance. In such a case, set the auto return switch to the OFF (■) position (see Fig. 15), and then the phono disc can be played to the final groove.



### Note:

For restoring the normal auto return function, set the switch back to the ON (—) position.

## ■ HOW TO SUSPEND AND STOP PLAY

- For temporary suspension of play, raise the cueing lever, and the stylus tip of the cartridge, will lift from the record.
- For suspension of play, push the stop button. The tonearm automatically returns to the arm rest and the turntable stops rotating.

### Note:

The stop button will light up after the tonearm returns to the arm rest.

## ■ ADJUSTMENTS-1

### Adjustment of the arm height. (See Fig. 16, 17)

- This tonearm has been locked in the highest position before shipping from the factory, adjust the arm height according to your cartridge height.
- Loosen the arm lock screw. And push the arm pivot bearing support downward until the tonearm is parallel with the record surface.

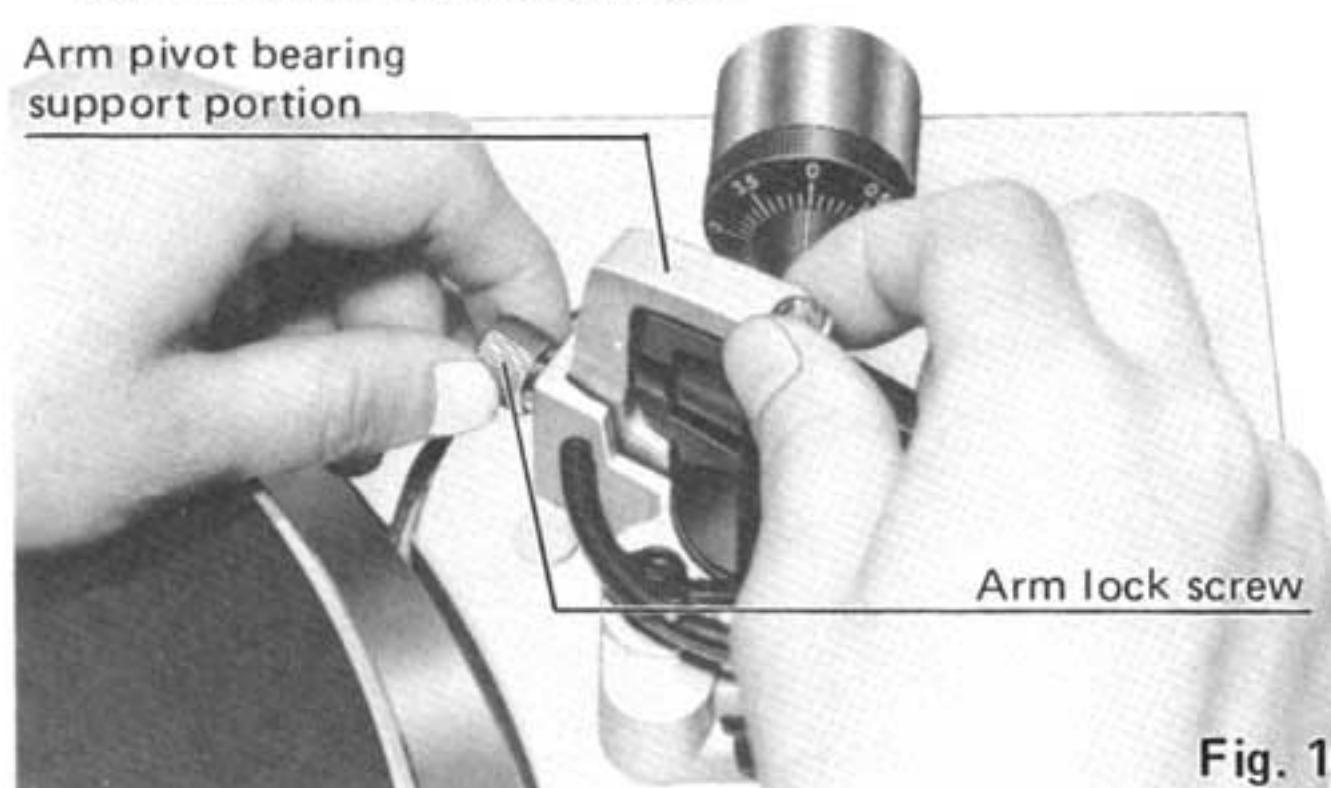


Fig. 16

- If the cartridge height is 18 mm as shown in the picture, lock the arm bearing support at the line indicated in the picture. (See Fig. 17) The arm height can be adjusted in 1 mm increments over a range of 6 mm.

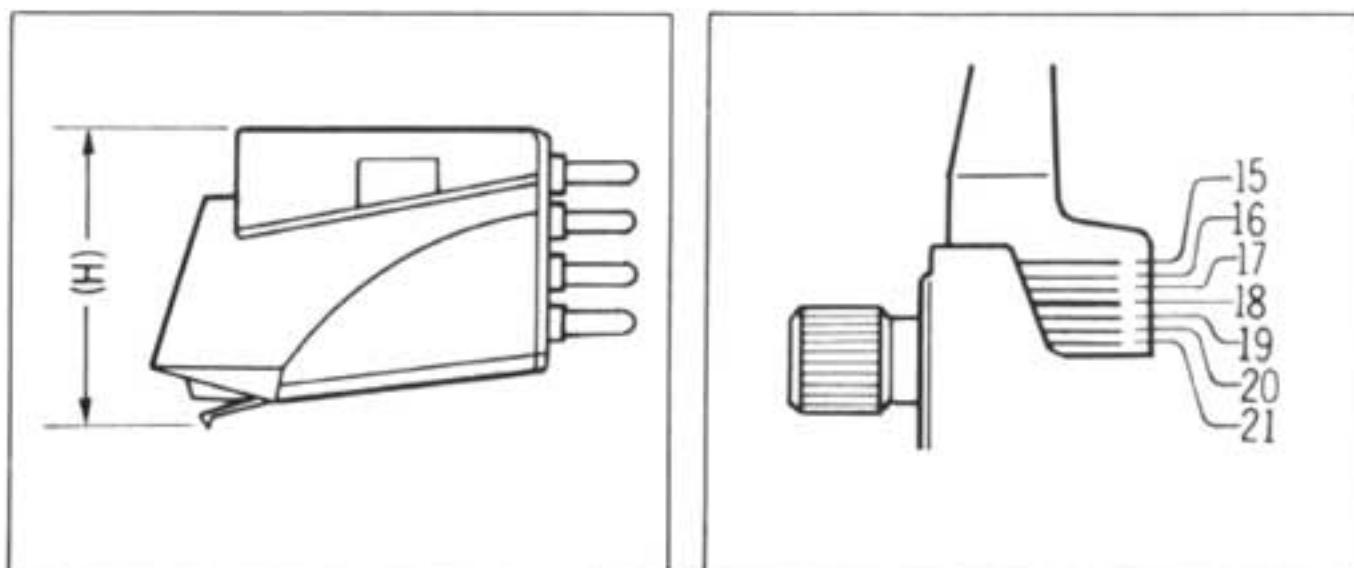


Fig. 17

## ■ ADJUSTMENTS-2

### Pitch control (turntable speed fine adjustment)

By the employment of the Quartz Synthesizer pitch control for being employed for the first time in the world, a high degree of pitch control accuracy over a range as wide as  $\pm 9.9\%$  in 0.1% increments can be obtained independently, with the quartz locked speed accuracy.

Additionally, the pitch variations which are clearly indicated by the LED digital indicator provide you with accurate and easy selection.

- The pitch control can be selected in increments of 0.1% which is below the threshold of human perception. This function can be very effective for minor extension or reduction of broadcasting time in professional applications.

- The pitch control also enables you to accurately and precisely tune with musical instruments, and by varying the pitch slightly to obtaining a different musical note from phono disc.

For a half tone change:

+5.9% (#)

-5.6% (b)

- Another feature of the variable pitch control over a wide range of  $\pm 9.9\%$  is that it makes singing along with a melody easy for a choral or playing a phono disc for accompaniment only.

By pressing the clear button which is located between the "+" and "-" pitch buttons, you can quickly return the set to normal playing speed.

#### Adjustment of the muting time and arm height.

(See Fig. 18 and 19)

This unit employs "muting switch" combination with arm lift to cut off the irritating noise when the stylus is set down on or lifted up from the record. You can adjust the muting time by adjusting the arm lift height (distance between the stylus tip and record surface when cueing lever is raised).

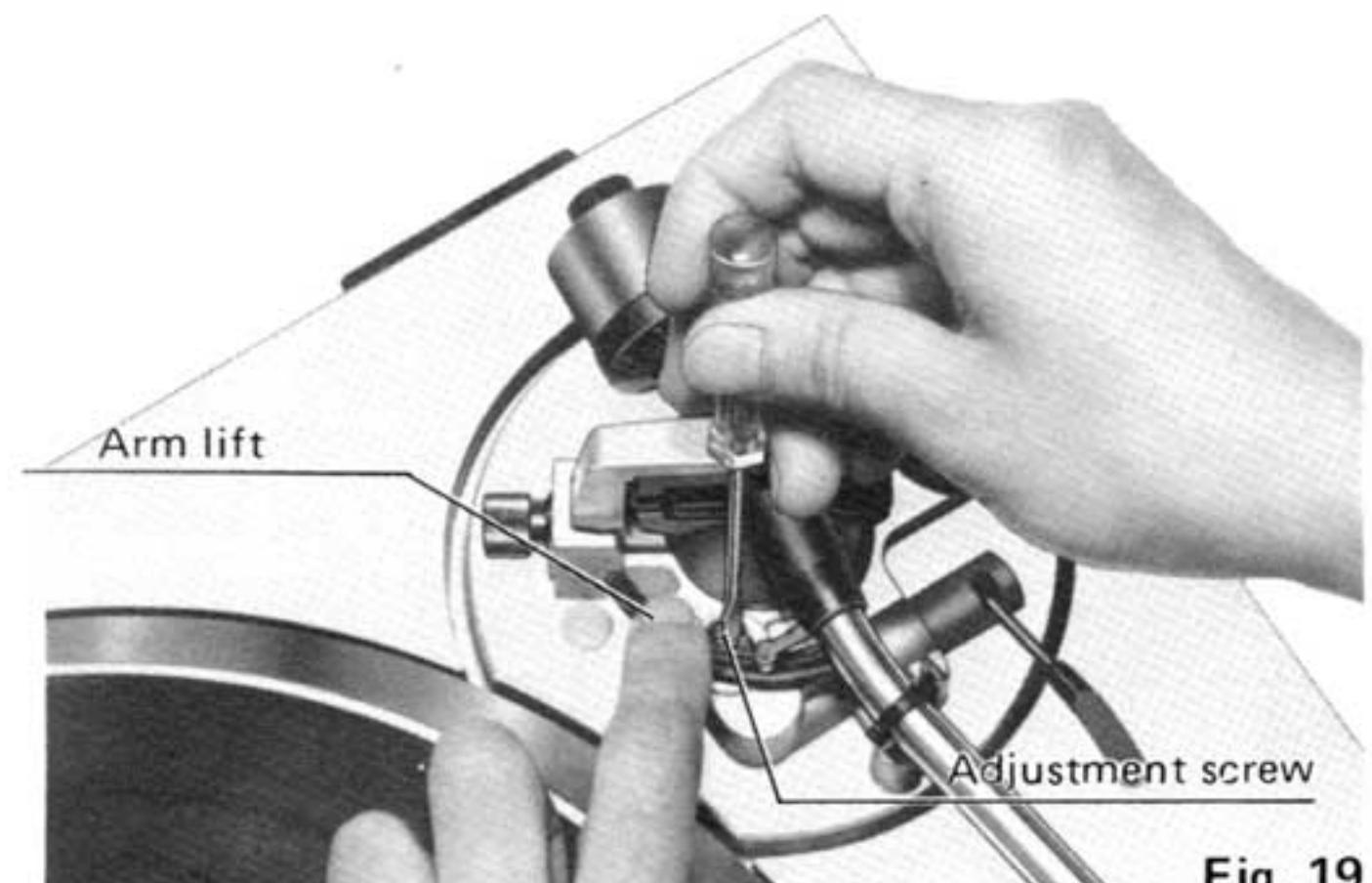
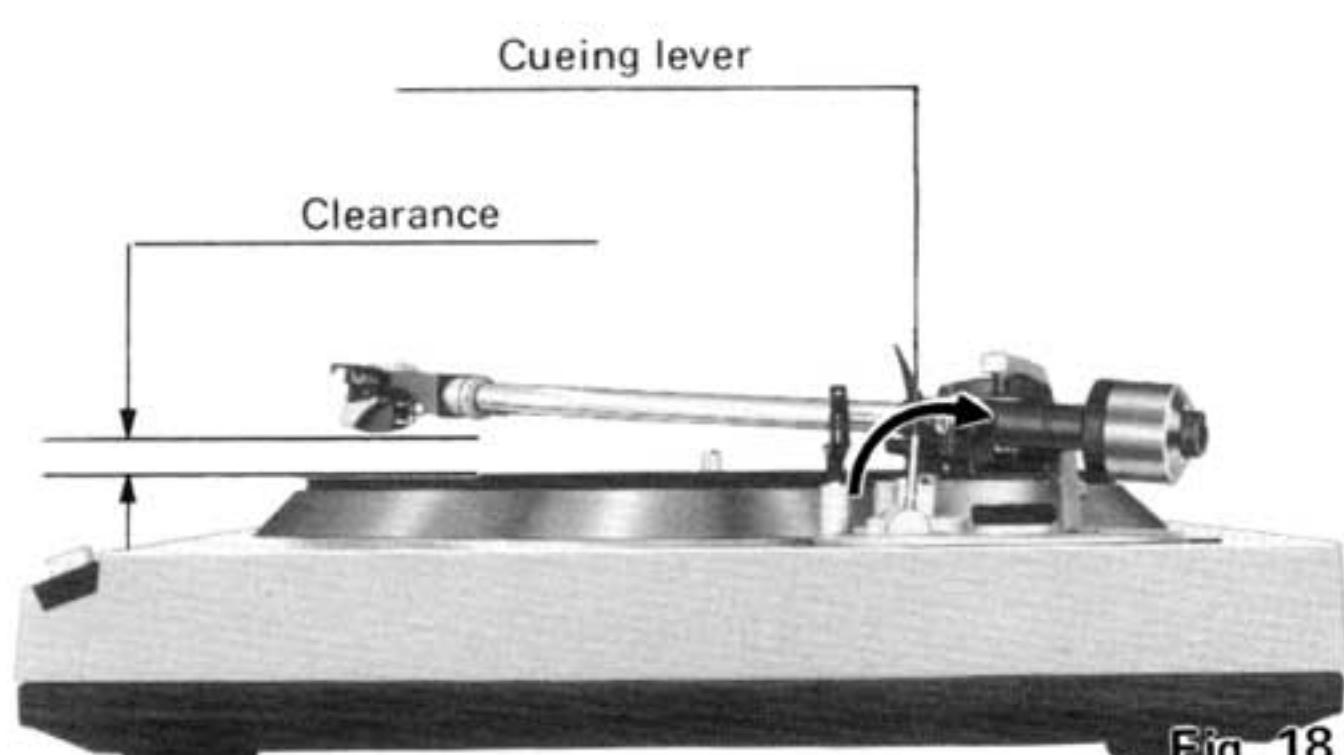
If the clearance becomes too narrow or too wide because of the physical size of the different cartridge on the market, turn the adjustment screw clockwise or counterclockwise, while pushing the arm lift down.

##### Clockwise rotation

— distance between the record and stylus tip is reduced, and muting time becomes longer.

##### Counterclockwise rotation

— distance between the record and stylus tip increases, and muting time becomes shorter.



#### Note:

As the adjusting screw has a hexagon head, be sure to make the adjustment while depressing the arm lift, and be sure that the hexagon head retract correctly into the arm lift when released.

#### Adjustment for automatic start and automatic return positions.

Should the tonearm not set down or lift off at the correct points, make adjustments according to the following procedures.

#### Adjustment for automatic start position (See Fig. 20).

1) Keep the power switch turned OFF (■) to prevent the turntable from rotation.

2) Remove the rubber cap.

In cases where the stylus tip sets down outside of the record.

— Move counterclockwise.

In cases where the stylus tip sets down on the recorded groove. -Move clockwise.

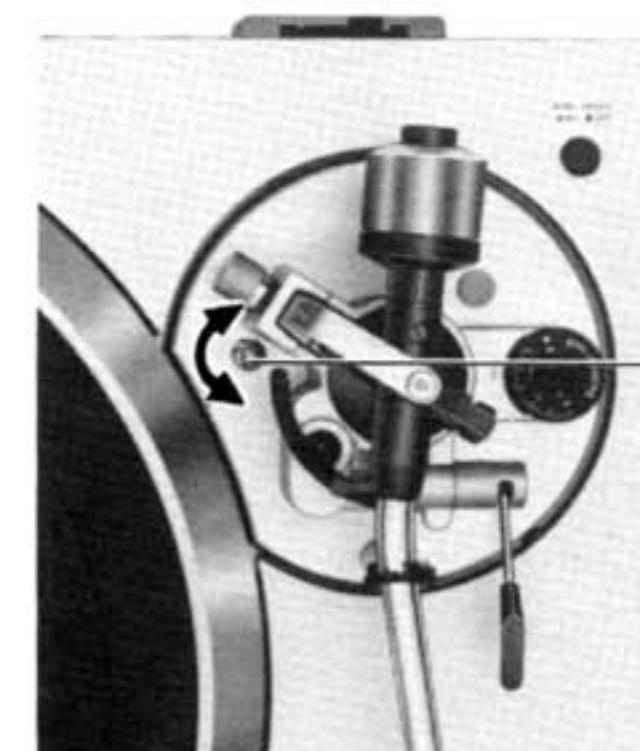


Fig. 20

#### Adjustment for automatic return position (See Fig. 21).

1) Keep the power switch turned OFF (■) to prevent the turntable from rotation.

2) Remove the rubber cap.

3) Move the tonearm toward the center spindle side, and make the adjustment by gradually turning the adjusting screw.

In cases where the tonearm tends to return before the playing has finished.

— Move counterclockwise.

In cases where the tonearm fails to return after the last groove of the record.

— Move clockwise.

#### Note:

Never turn the screw over a 180-degree angle.

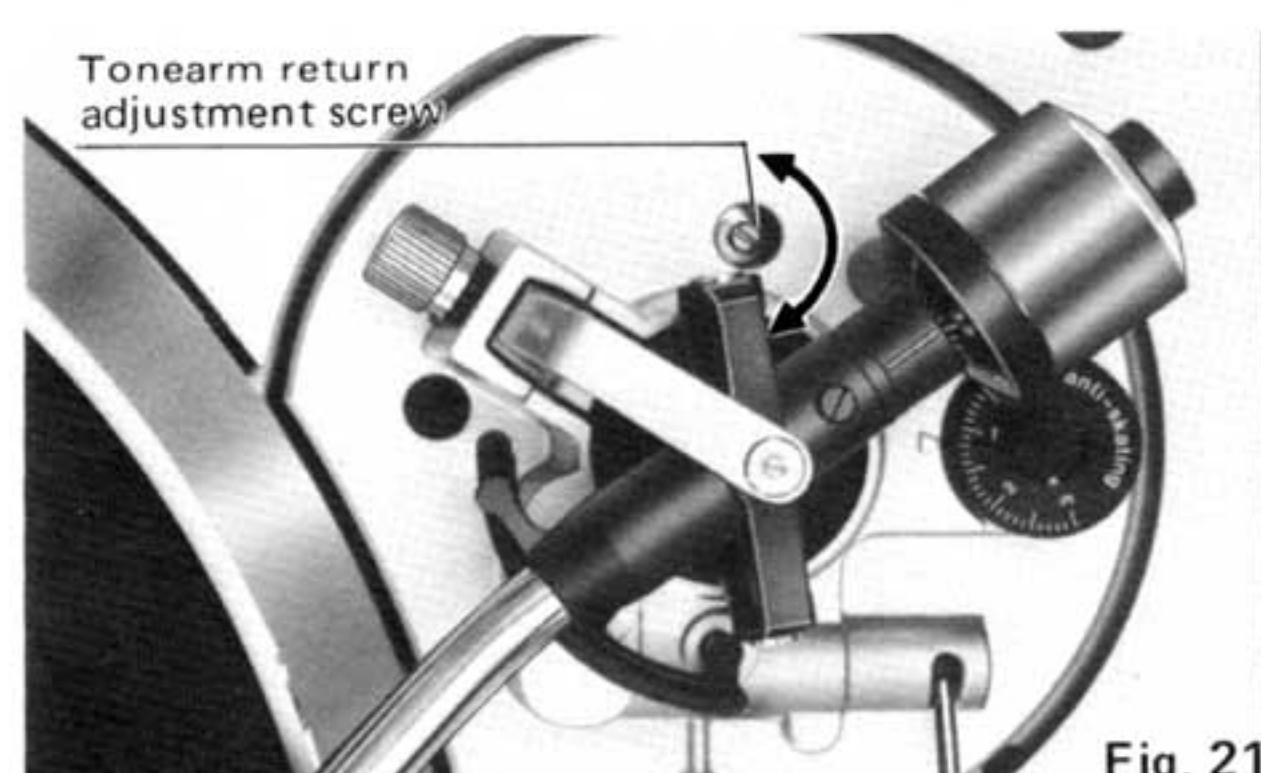
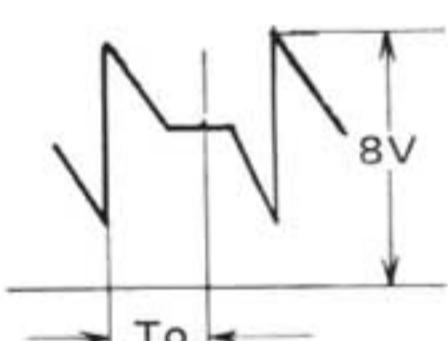
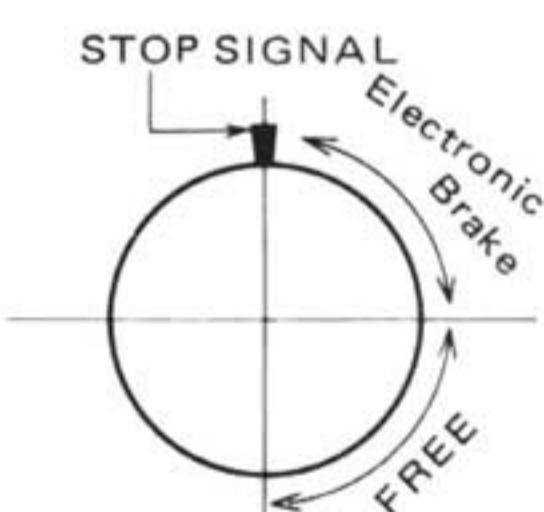
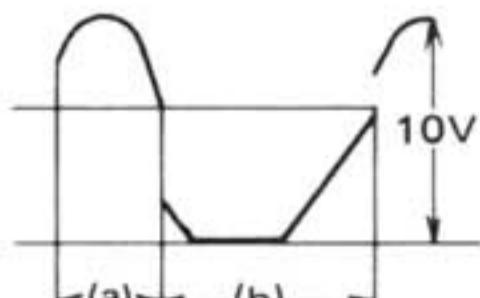
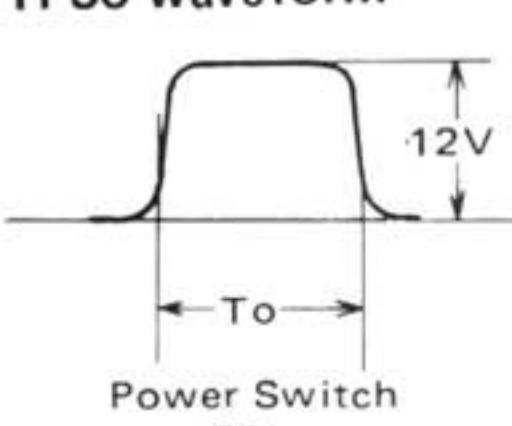


Fig. 21

# ■ ADJUSTMENTS-3


## Adjustment Points of Electrical System

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

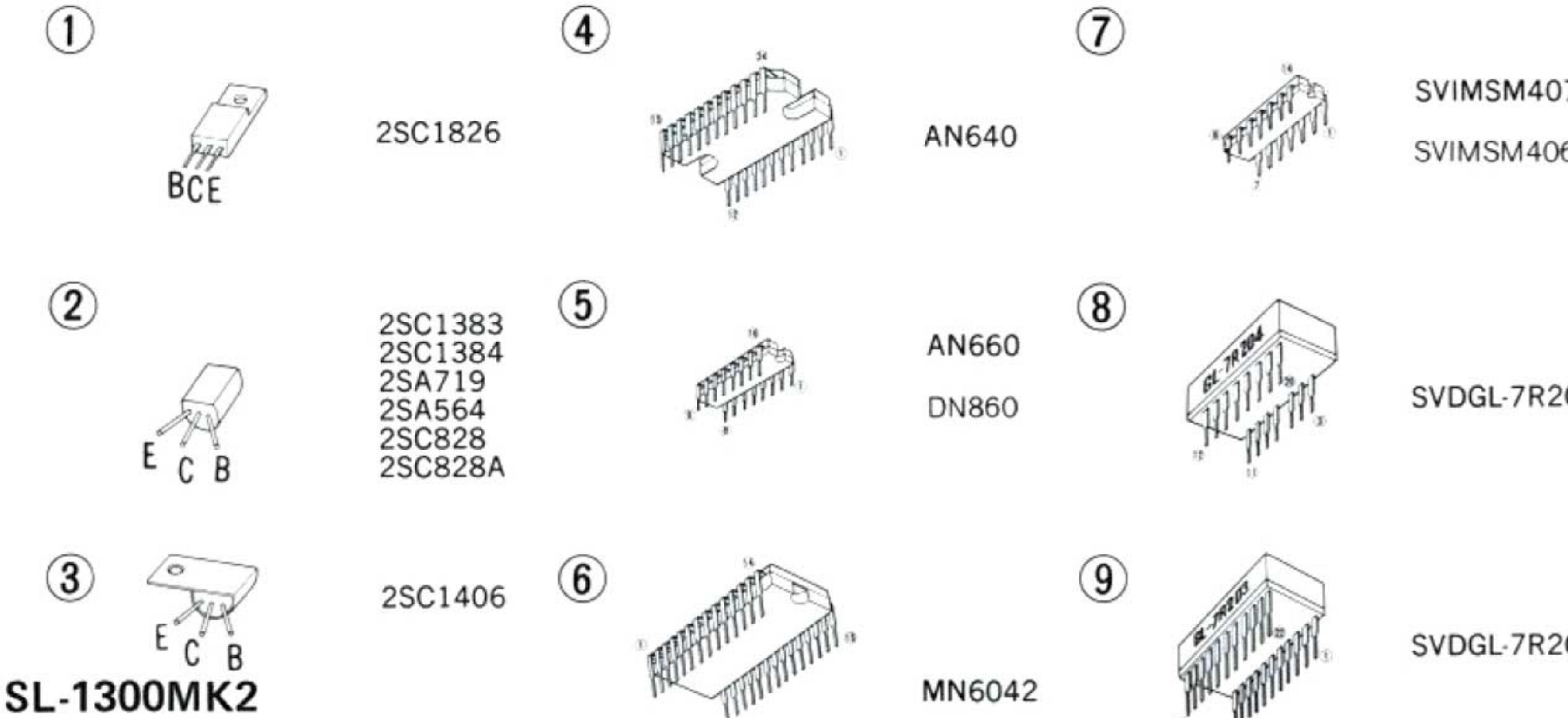
	Adjustment	Connection Points	Adjustment Point	Adjustment Method
A	Adjustment of standard voltage (VS)	DC voltmeter or Oscilloscope (+ → TP15 - → GRAND)	VR201	Turn start switch on to begin turntable rotation. For 33 rpm . . . adjust VR201 for DC $2.10V \pm 0.05V$ . For 45 rpm . . . confirm that there is DC $2.80 \sim 2.86V$ .
B	Adjustment of current source (IR)	DC voltmeter or Oscilloscope (+ → TP19 - → TP21)	VR202	Turn start switch on to begin turntable rotation. Adjust VR202 for 0V potential difference of TP19 and TP21.
C	Tracking adjustment	Oscilloscope (+ → TP18 - → GRAND)	VR101	<b>TP18 waveform</b>  For 33 rpm . . . adjust VR101 for $8 \leq T_0 \leq 8.5$ ms. For 45 rpm . . . confirm that $5.8 \leq T_0 \leq 6.4$ ms.
D	Braking adjustment	—	VR203	 Adjust VR203 for complete stop within $90^\circ \sim 180^\circ$ after stop signal initiated. (Turntable becomes free a few seconds after stop.)
E	Optical sensor gain adjustment	Oscilloscope (+ → TP32 - → GRAND)	VR501	<b>TP32 waveform</b>  With arm near center spindle, manually move with uniform motion, and adjust VR501 as that the (a) and (b) pitch of the waveform of TP32 is equal.
F	Auto-Return time adjustment	Oscilloscope (+ → TP38 - → GRAND)	VR502	<b>TP38 waveform</b>  Turn power switch on, and adjust VR502 so that the time ( $T_0$ ) from power on until the voltage of TP38 inverts is 1.5 second at 33 rpm. (1.1 second at 45 rpm) TP37: for 33 rpm . . . 0V for 45 rpm . . . 2V

# Schematic Diagram ..... Model SL-1300MK2

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



## ■ TERMINAL GUIDE



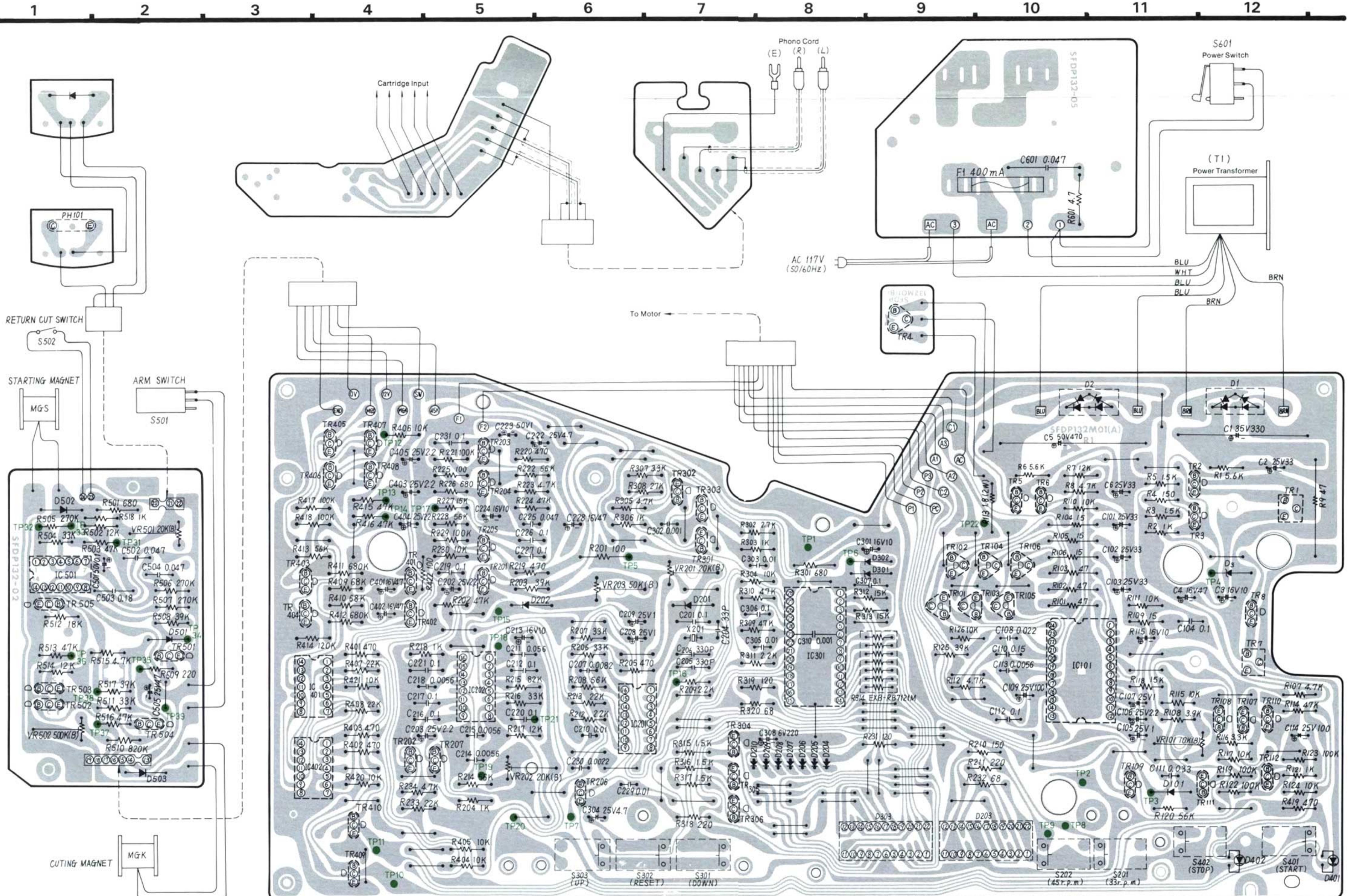
**IMPORTANT SAFETY NOTICE**  
THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR SAFETY.  
WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

### Notes:

1. S201: Speed select switch (33 r.p.m.)
2. S202: Speed select switch (45 r.p.m.)
3. S301: Pitch Control switch (Down)
4. S302: Pitch Control switch (Reset)
5. S303: Pitch Control switch (Up)
6. S401: Start switch in "off" position.
7. S402: Stop switch in "off" position.
8. S501: Arm switch in "off" position.
9. S502: Return cut switch in "off" position.
10. S601: Power switch in "off" position.

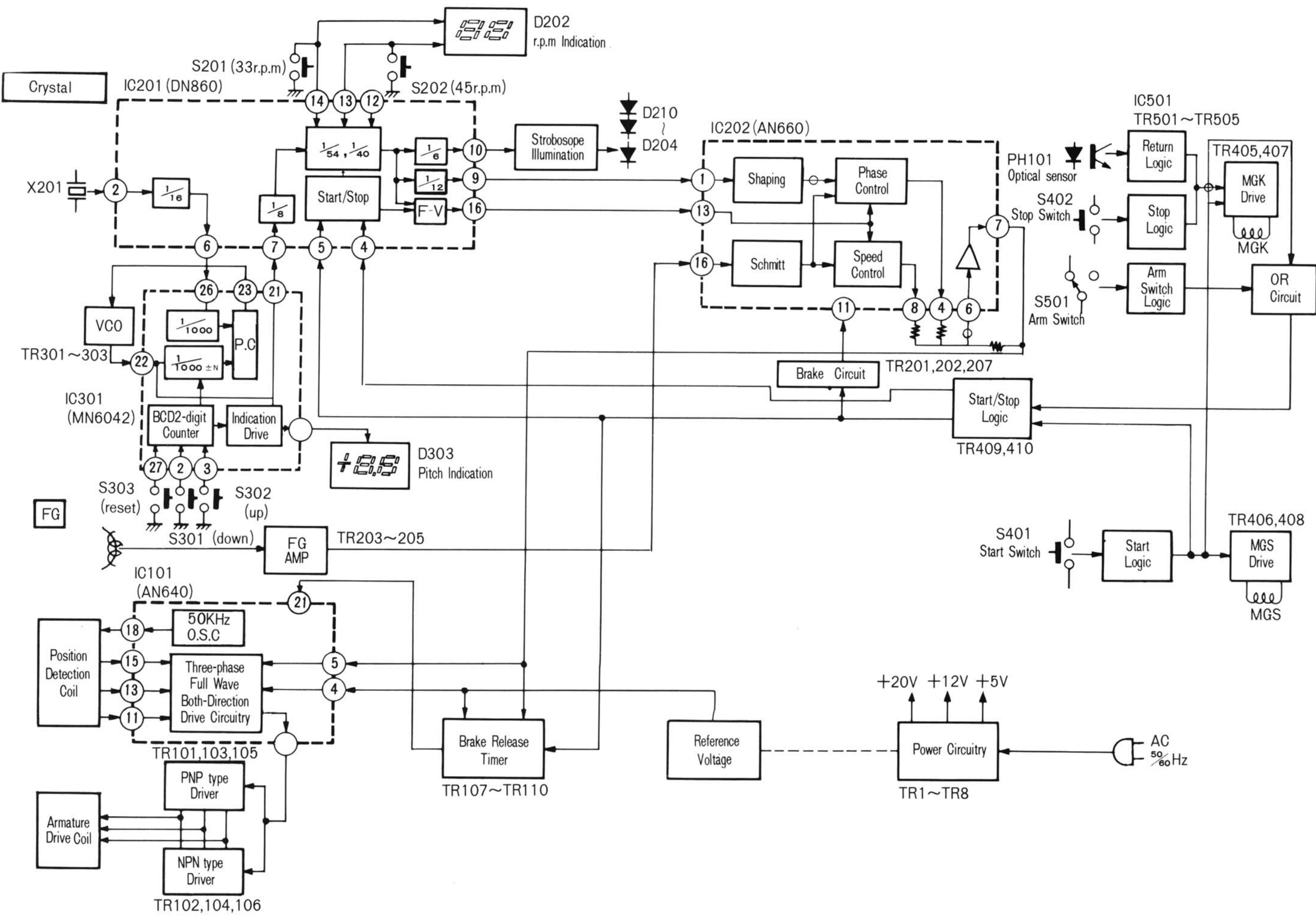
TR1, 4, 7	2SC1826	IC101	AN640
TR2, 3, 6, 8, 405, 406	2SC1328-T	IC201	DN860
TR5	2SC1384	IC202	AN660
TR102, 104, 106	2SC1406	IC401	MN6042
TR101, 103, 105	2SA752	IC402	SVIMSM4069
TR107, 107, 111	2SA666AI-R	IC501	SVIMSM4075
301, 302, 505	D1, 2	SVDSIRBA20	SVIMSM4011
TR109, 110, 112, 201 ~ 207, 303	D3, 301	SVDRD5.1EBS	SVDRD9.1EBS
401 ~ 404, 409, 410, 501 ~ 504	D101, 202, 302, 501 ~ 503	MA150	SVDGL-7R204
TR304 ~ 306	D201		SVDGL-7R203
TR407, 408	D203		SVDSR105C
	D203 ~ 210		SVDSR105C
	D303		SVDGL-7R203
	D401, 402		SVDSR105C

# Printed Circuit Board ..... SL-1300MK2



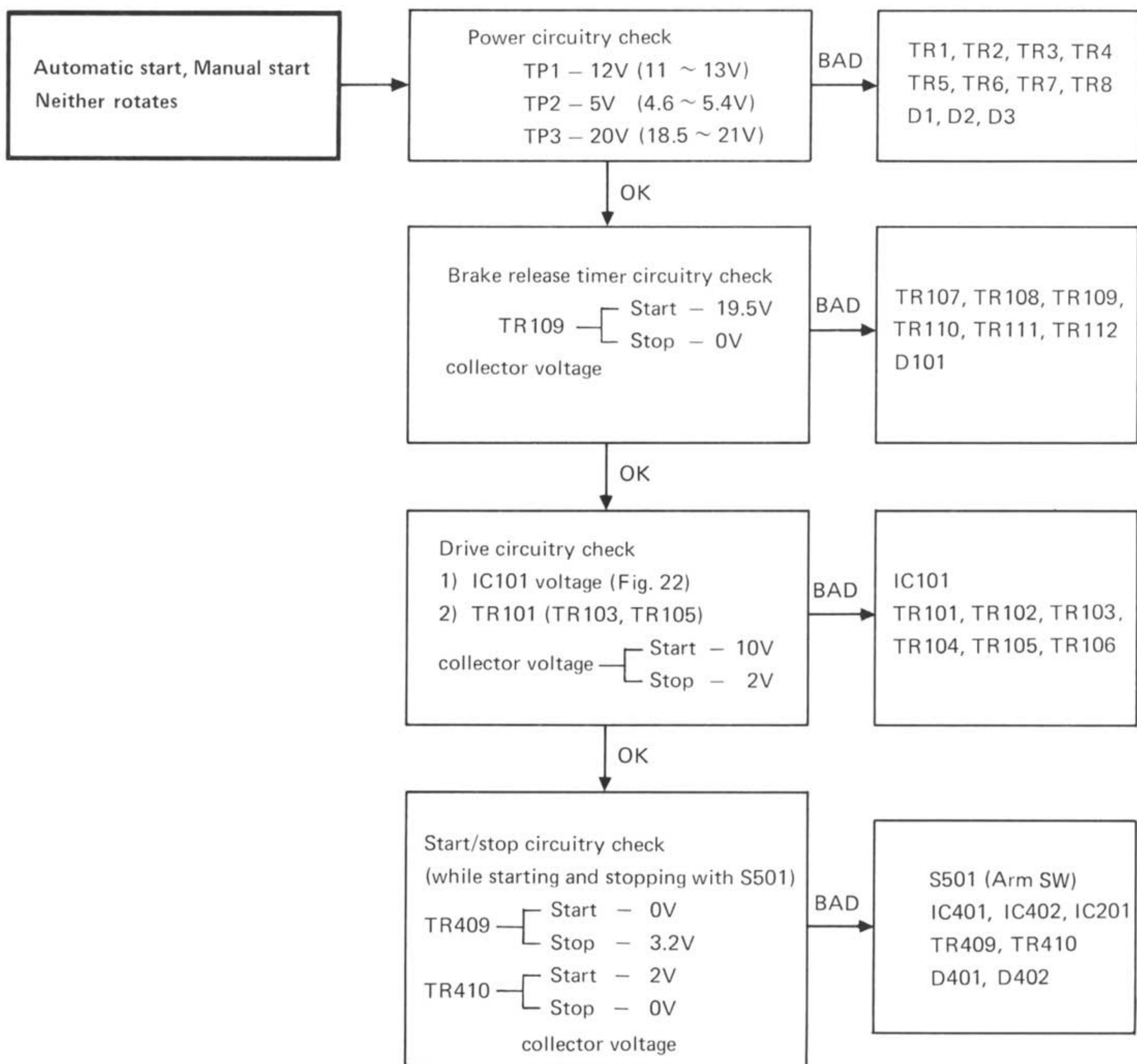
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2SC1826	2SC828A	2SC828A	2SC1826	2SC1883	2SC828A	2SC1826	2SC828A	2SA751	2SC1406	2SA751	2SC1406	2SA564	2SA564	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	
E 12 V	E 12.6 V	C 21 V	E 4.9 V	E 20.6 V	E 4.9 V	E 20.6 V	E 5 V	E 20 V	E 20 V	E 20 V	E 20 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	
C 21 V	B 12.6 V	B 13.2 V	C 19.2 V	C 33.7 V	B 20.6 V	B 12.1 V	B 5.5 V	C 10 V	C 10 V	C 10 V	C 10 V	B 7 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	
B 12.6 V			B 5.5 V			B 12.1 V		B 6.2 V		B 6.2 V		B 0.1 V		B 1.93 V		B 0.1 V		B 1.93 V		B 1.93 V		B 1.93 V	
2SC828	2SC828	2SC828	2SC828	2SA564	2SC828	2SA564	2SC828	2SA719	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	2SC828	
E 6.2 V	E 6.2 V	E 0 V	E 0 V	E 1.3 V	E 0 V	E 1.3 V	E 0 V	E 5.2 V	E 5.2 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	E 0 V	
C 11 V	C 11 V	C 0 V	C 0 V	C 0.7 V	C 0.7 V	C 0.7 V	C 0 V	C 0.8 V	C 0.8 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	C 0 V	
B 7 V	B 7 V	B 0 V	B 0 V	B 0.6 V	B 0.6 V	B 0.6 V	B 0 V	B 0.7 V	B 0.7 V	B 0 V	B 0 V	B 0 V	B 0 V	B 0 V	B 0 V	B 0 V	B 0 V	B 0 V	B 0 V	B 0 V	B 0 V	B 0 V	

## ■ BLOCK DIAGRAM



# TROUBLE SHOOTING

(A)

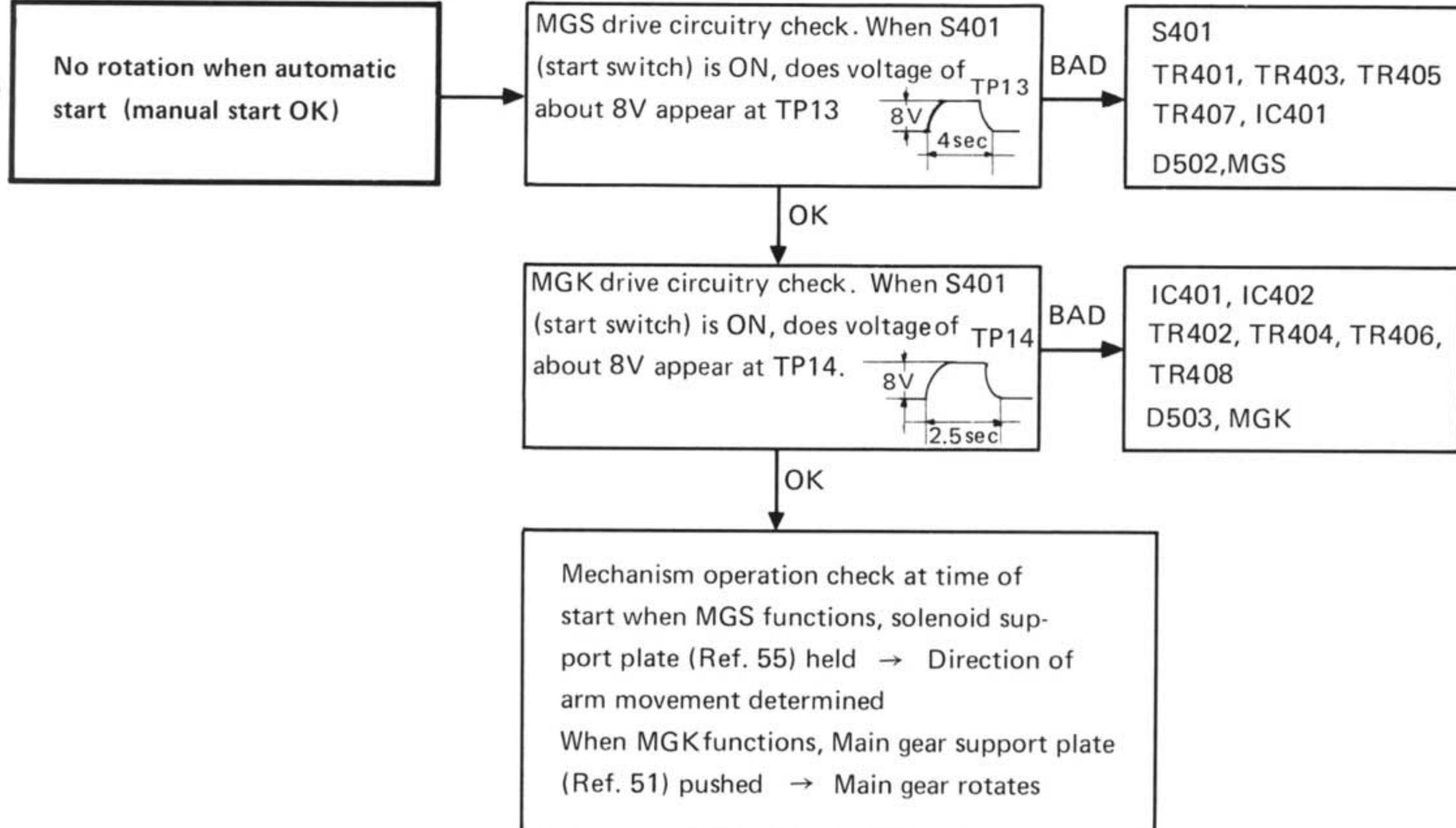


Reference voltage of each pin of IC101

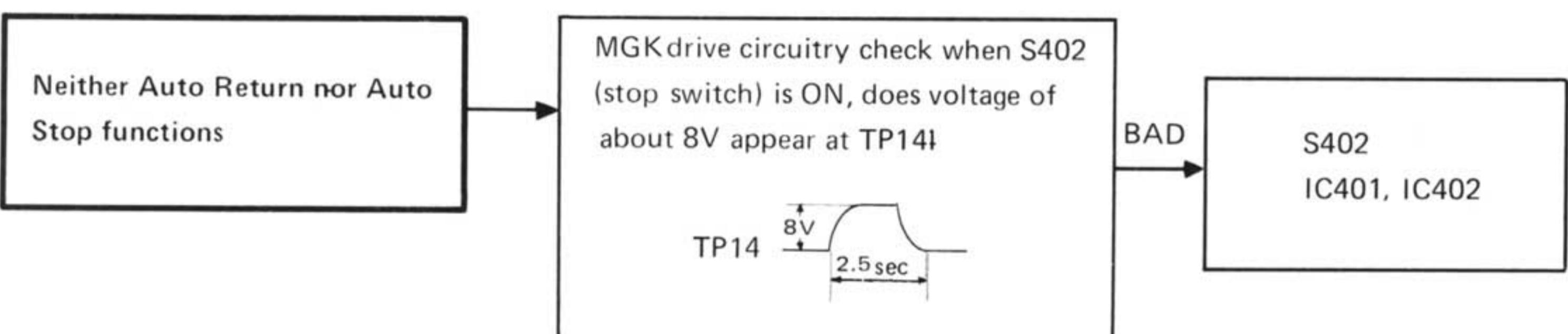
(Fig. 22)

	Start	Stop		Start	Stop		Start	Stop
①		0.1V			15.2V			15.5V
②			⑩	14.5V		⑯	15.5V	15.5V
③						⑯	20mS	
④	5.8V	6.1V	⑪		Same as at left	⑯		Same as at left
⑤	5.9V	10.5V	⑬	15.6V		⑯	20.6V	20.6V
⑥	4.7V	2.2V	⑫	14.9V	15V	⑯	15.3V	1.4V
⑦	4.9V	4.9V	⑭			⑯	20.5V	16.4V
⑧	20.5V	20.5V	⑮	14.9V	15V	⑯	20V	20V
⑨		0.2V	⑯	0 V	0 V			

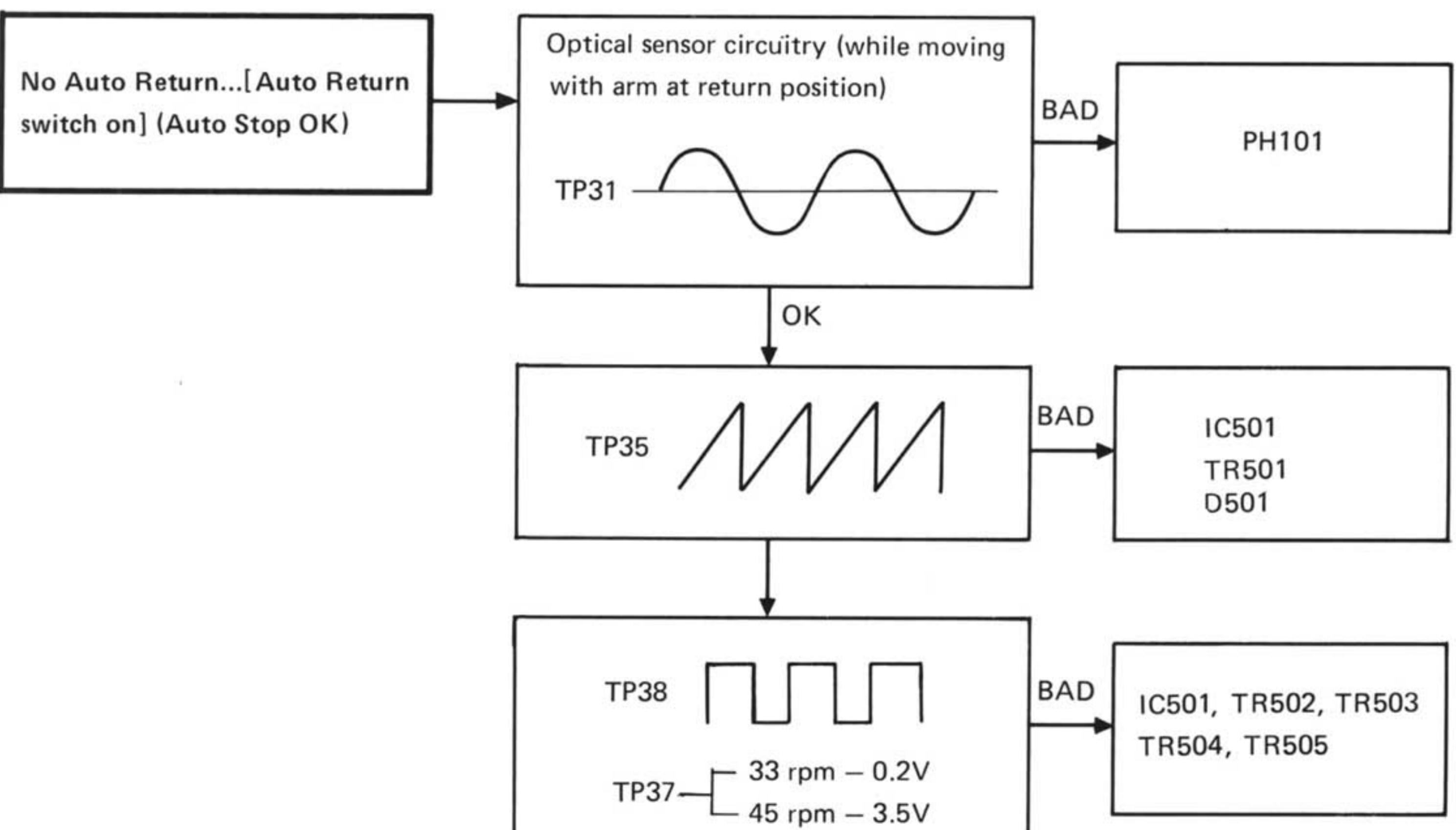
(B)



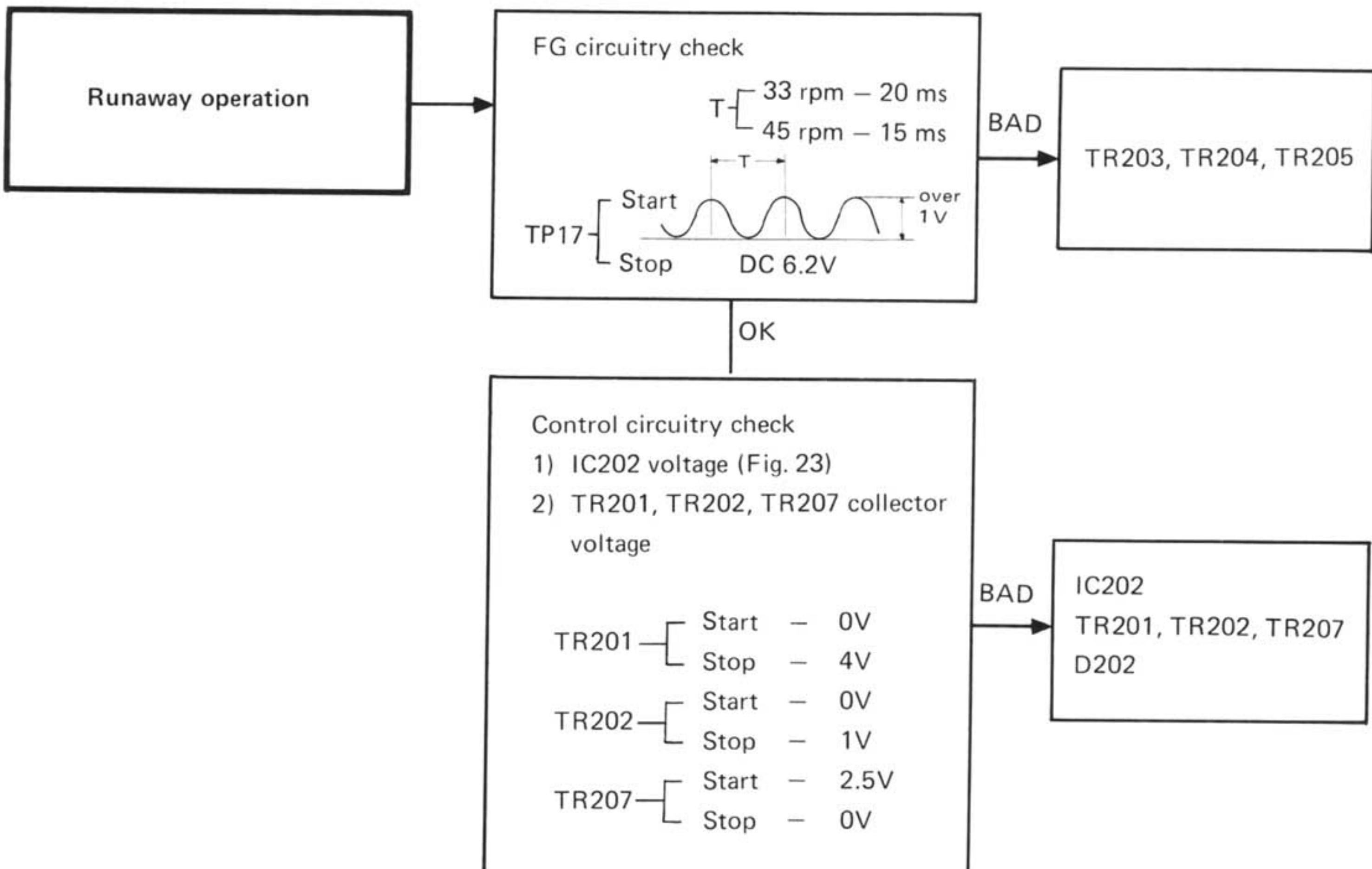
(C)



(D)

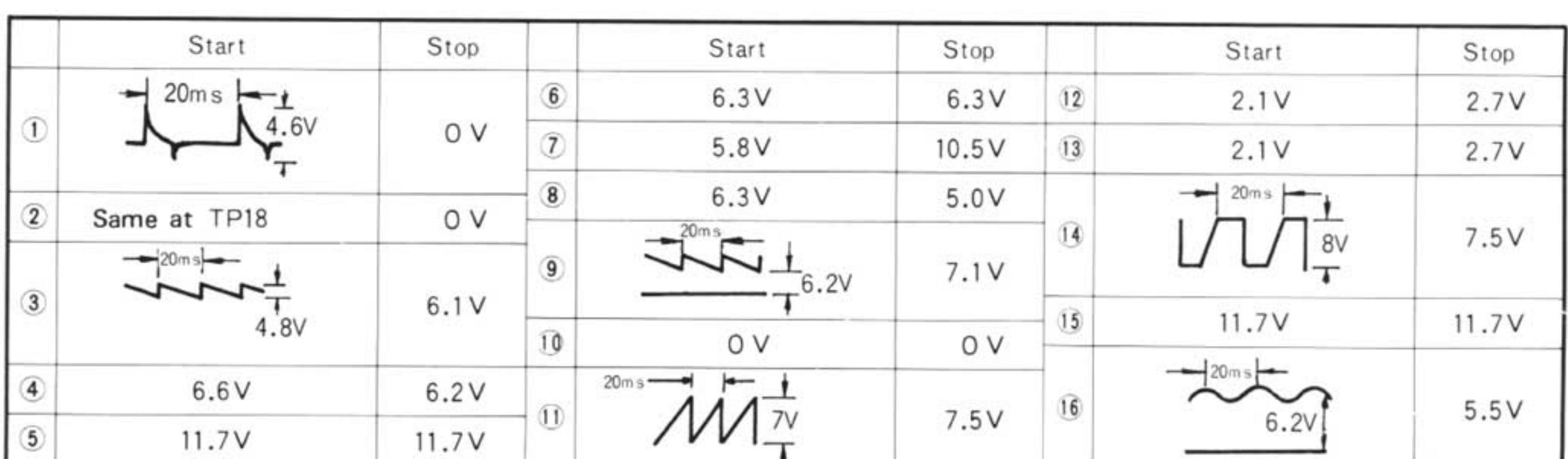


(E)

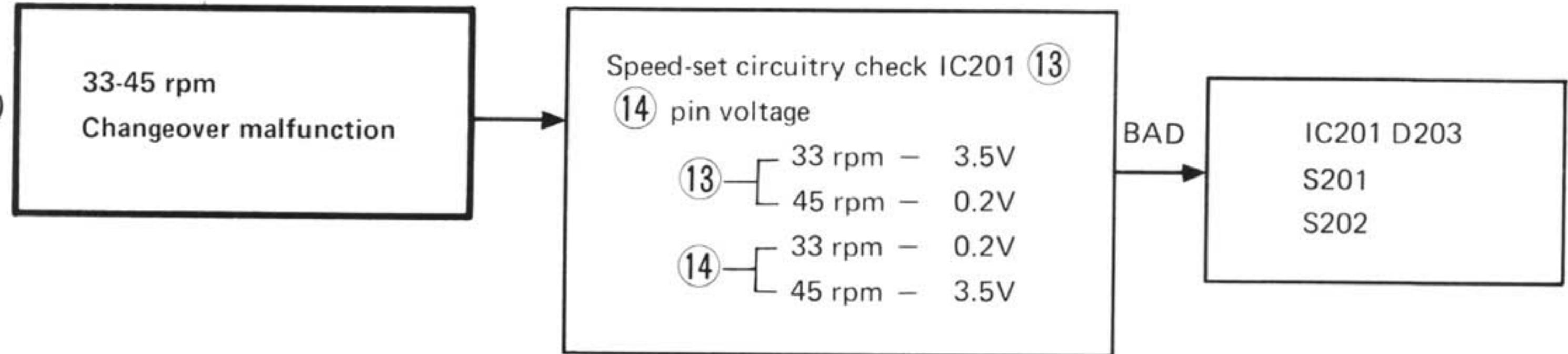


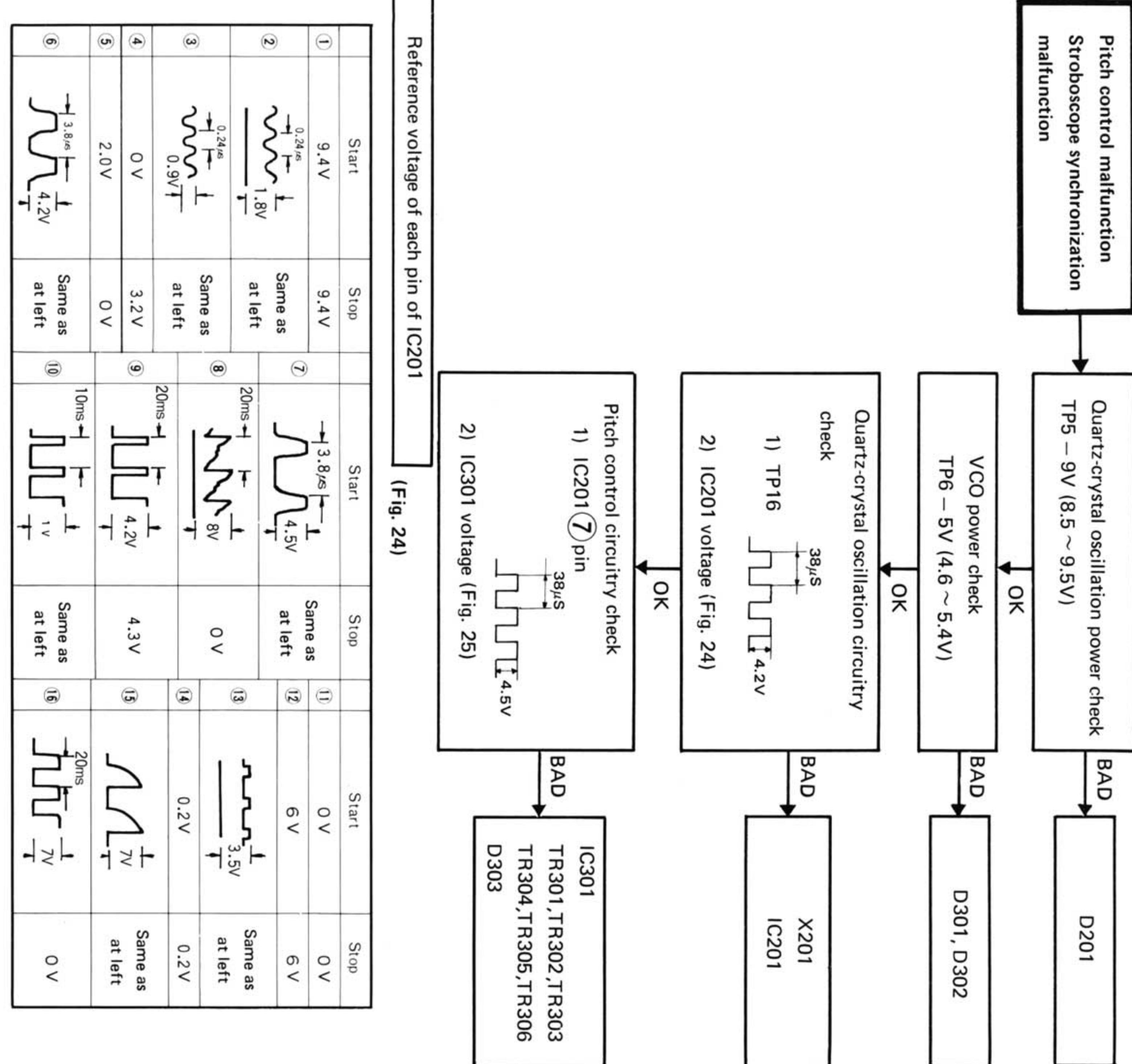
Reference voltage of each pin of IC202

(Fig. 23)



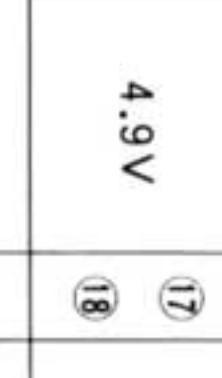
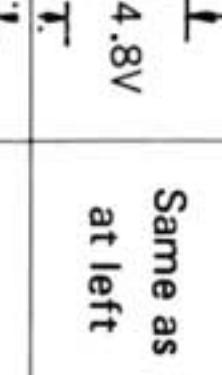
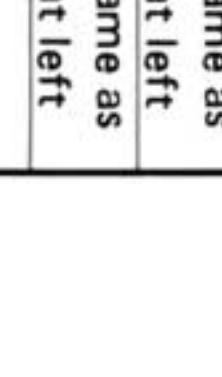
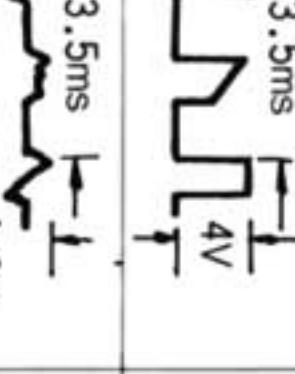
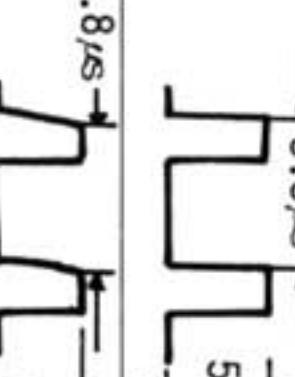
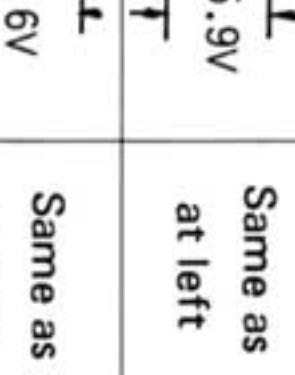
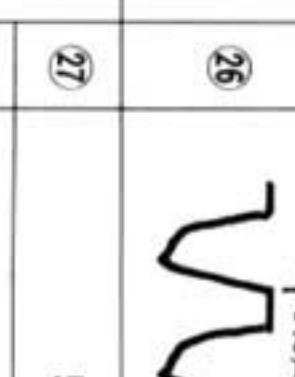
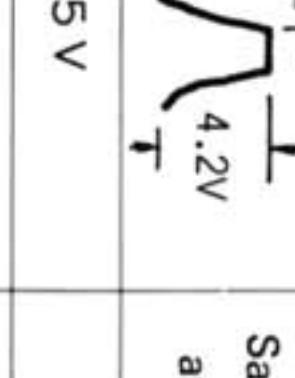
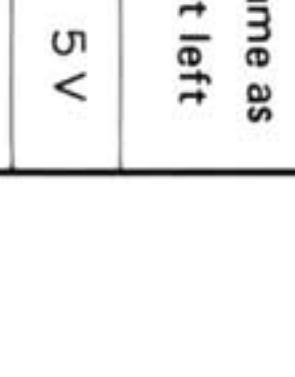
(F)





Reference voltage of each pin of IC301

(Fig. 25)

	Start	Stop	Start	Stop	Start	Stop
①	4.9V	4.9V		Same as at left	2.4V	Same as at left
②				Same as at left	2.4V	Same as at left
③				Same as at left	4ms	Same as at left
④	0 V	0 V		Same as at left	2.4V	Same as at left
⑤				Same as at left	2.4V	Same as at left
⑥				Same as at left	2.4V	Same as at left
⑦				Same as at left	2.4V	Same as at left
⑧				Same as at left	5 V	5 V
⑨				Same as at left	5 V	5 V
⑩	3.5ms	3.8μs		Same as at left	2.4V	Same as at left
⑪				Same as at left	2.4V	Same as at left
⑫				Same as at left	2.4V	Same as at left
⑬	4V	5.9V		Same as at left	2.4V	Same as at left
⑭				Same as at left	2.4V	Same as at left
⑮				Same as at left	2.4V	Same as at left
⑯	4.2V	5 V		Same as at left	2.4V	Same as at left
⑰				Same as at left	2.4V	Same as at left
⑱				Same as at left	2.4V	Same as at left

# REPLACEMENT PARTS LIST

## Important Safety Notice

Components identified by shaded area have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

NOTE: 1. Part numbers are indicated on most mechanical parts.  
Please use this part number for parts orders.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>INTEGRATED CIRCUITS</b>				
IC101	AN640	Drive Circuit	1	
IC201	DN860	Frequency Divider Circuit	1	○
IC202	AN660	Control Circuit	1	○
IC301	MN6042	Pitch Control Circuit	1	○
IC401	SVIMSM4069	Start & Stop Logic Circuit (NOT)	1	○
IC402	SVIMSM4075	Start & Stop Logic Circuit (OR)	1	○
IC501	SVIMSM4011	Optical Censor Return Pulse Circuit (NAND)	1	○
<b>TRANSISTORS</b>				
TR1, 4, 7	<b>2SC1826-Y</b>	Transistors (Use in ranks O or Y or G)	3	
TR2, 3, 6, 8, 405, 406	<b>2SC1328-T</b>	Transistors	6	○
TR5	<b>2SC1384A-Q</b>	Transistor (Use in ranks Q or R or S)	1	
TR101	<b>2SA752-Q</b>	Transistor (Use in pair ranks Q or R or S)	1	
TR102	<b>2SC1406-Q</b>	Transistor	1	
TR103	<b>2SA752-Q</b>	(Use in pair ranks Q or R or S)	1	
TR104	<b>2SC1406-Q</b>	Transistor	1	
TR105	<b>2SA752-Q</b>	(Use in pair ranks Q or R or S)	1	
TR106	<b>2SC1406-Q</b>	Transistor	1	
TR107, 108, 111, 301, 302, 505	<b>2SA666AI-R</b>	Transistor (Use in ranks Q or R or S)	6	
TR109, 110, 112, 201, 202, 203, 204, 205, 206, 207, 303, 401, 402, 403, 404, 409, 410, 501, 502, 503, 504	<b>2SC1328-T</b>	Transistor	21	
TR304, 305, 306	<b>2SA719-P</b>	Transistors (Use in ranks P or Q or R or S)	3	
TR407, 408	<b>2SC1384-Q</b>	Transistors (Use in ranks Q or R or S)	2	○
<b>DIODES</b>				
D1, 2	<b>SVDSIRBA20</b>	Rectifier	2	○
D3, 301	SVDRD5.1EBS	5.1V Zener, Voltage Stabilizer	2	○
D101, 202, 302, 501, 502, 503	MA150	Diodes	6	
D201	SVDRD9.1EBS	9.1V Zener, Voltage Stabilizer	1	
D203	SVDGL-7R204	Light Emitting Diode (r.p.m)	1	○
D204, 205, 206, 207, 208, 209, 210, 401, 402	SVDSR105C	Light Emitting Diode	9	○
D303	SVDGL-7R203	Light Emitting Diode (pitch)	1	○
<b>CRYSTAL</b>				
X204	SVQU306115	4.19328MHz Oscillator	1	○
<b>TRANSFORMER</b>				
T1	SLT60EU3B	Power Transformer	1	○
<b>FUSE</b>				
F1	XBA2F04NU100	400mA (Fuse)	1	○

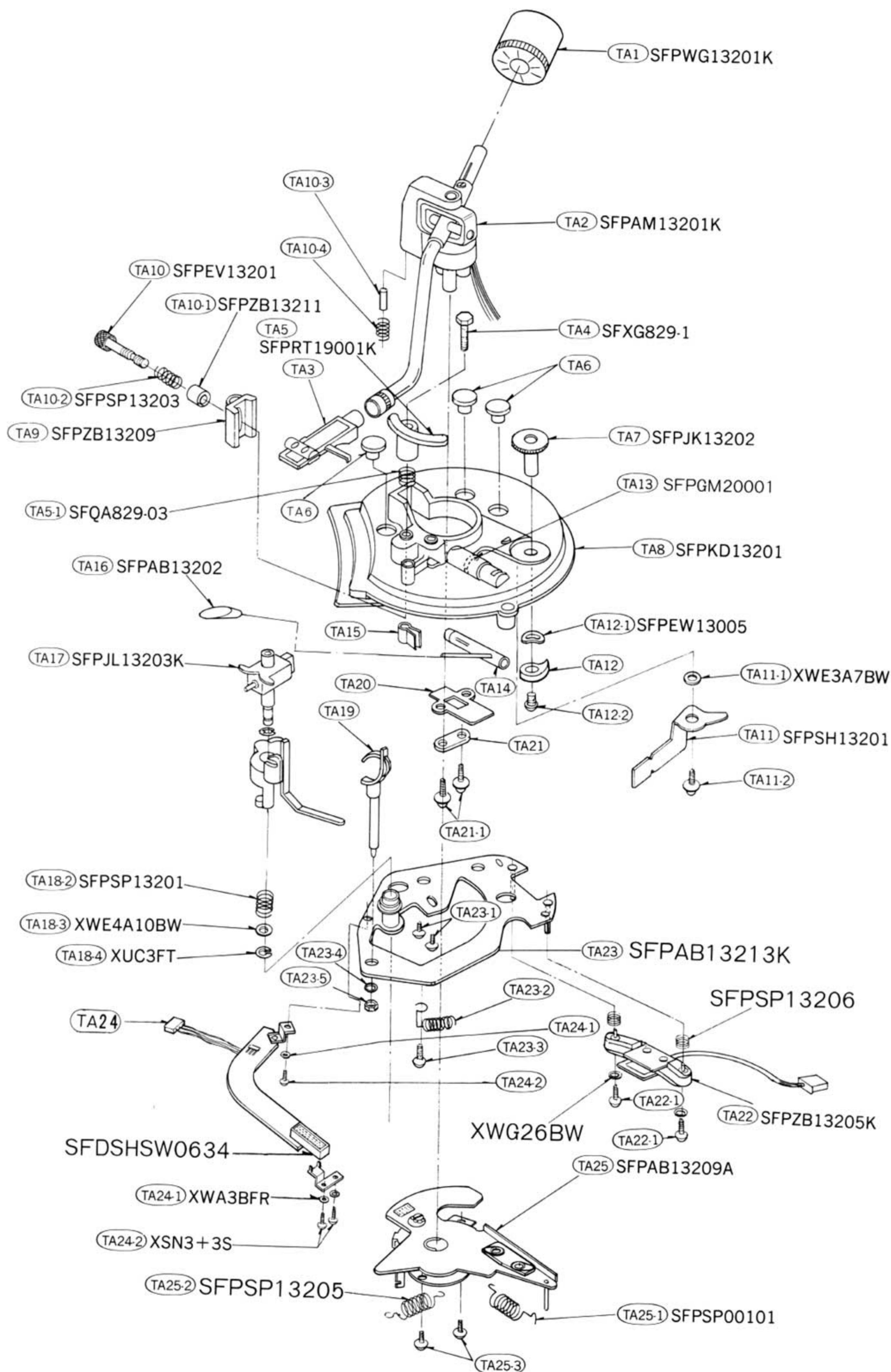
Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>SWITCHES</b>				
S201, 202	EVQP4R04K	Speed Selector Switches	2	○
S301, 302, 303	EVQP4R04K	Pitch Control Switches	3	○
S401, 402	EVQP4R04K	Start or Stop Switches	2	○
S501	SFDSSA73502	Arm Switch	1	○
S502	ESB6015	Return Cut Switch	1	○
<b>S601</b>	<b>SFDSSS5GL2</b>	<b>Power Switch</b>	<b>1</b>	
	SFDSHSW0634	Muting Switch, Tone Arm	1	○
<b>RESISTORS</b>				
R1	<b>ERD25TJ562</b>	Carbon, 5.6kΩ, 1/4W, ± 5%	1	
R2	<b>ERD25TJ102</b>	Carbon, 1kΩ, 1/4W, ± 5%	1	
R3	<b>ERD25TJ152</b>	Carbon, 1.5kΩ, 1/4W, ± 5%	1	
R4	<b>ERD25TJ151</b>	Carbon, 150Ω, 1/4W, ± 5%	1	
R5	<b>ERD25TJ152</b>	Carbon, 1.5kΩ, 1/4W, ± 5%	1	
R6	<b>ERD25TJ562</b>	Carbon, 5.6kΩ, 1/4W, ± 5%	1	
R7	<b>ERD25TJ123</b>	Carbon, 12kΩ, 1/4W, ± 5%	1	
R8	<b>ERD25TJ472</b>	Carbon, 4.7kΩ, 1/4W, ± 5%	1	
<b>R9</b>	<b>ERG3ANJ470</b>	Metal Film, 47Ω, 3W, ± 5%	1	
R101, 102, 103	<b>ERX1ANJ470</b>	Metal Film, 47Ω, 1W, ± 5%	3	
R104, 105, 106	<b>ERX1ANJ150</b>	Metal Film, 15Ω, 1W, ± 5%	3	
R107	<b>ERD25TJ472</b>	Carbon, 4.7kΩ, 1/4W, ± 5%	1	
R108	<b>ERD25TJ392</b>	Carbon, 3.9kΩ, 1/4W, ± 5%	1	
R109	<b>ERD25TJ150</b>	Carbon, 15Ω, 1/4W, ± 5%	1	
R110, 111	<b>ERD25TJ103</b>	Carbon, 10kΩ, 1/4W, ± 5%	2	
R112	<b>ERD25TJ472</b>	Carbon, 4.7kΩ, 1/4W, ± 5%	1	
<b>R113</b>	<b>ERX1ANJ1R8</b>	Metal Film, 1.8Ω, 1W, ± 5%	1	
R114	<b>ERD25TJ473</b>	Carbon, 47kΩ, 1/4W, ± 5%	1	
R115	<b>ERD25TJ103</b>	Carbon, 10kΩ, 1/4W, ± 5%	1	
R116	<b>ERD25TJ332</b>	Carbon, 3.3kΩ, 1/4W, ± 5%	1	
R117	<b>ERD25TJ103</b>	Carbon, 10kΩ, 1/4W, ± 5%	1	
R118	<b>ERD25TJ153</b>	Carbon, 15kΩ, 1/4W, ± 5%	1	
R119	<b>ERD25TJ104</b>	Carbon, 100kΩ, 1/4W, ± 5%	1	
R120	<b>ERD25TJ563</b>	Carbon, 56kΩ, 1/4W, ± 5%	1	
R121	<b>ERD25TJ102</b>	Carbon, 1kΩ, 1/4W, ± 5%	1	
R122, 123	<b>ERD25TJ104</b>	Carbon, 100kΩ, 1/4W, ± 5%	2	
R124	<b>ERD25TJ103</b>	Carbon, 10kΩ, 1/4W, ± 5%	1	
R125	<b>ERD25TJ393</b>	Carbon, 39kΩ, 1/4W, ± 5%	1	
R126	<b>ERD25TJ103</b>	Carbon, 10kΩ, 1/4W, ± 5%	1	
<b>R201</b>	<b>ERX1ANJ101</b>	Metal Film, 100Ω, 1W, ± 5%	1	
R202	<b>ERD25TJ473</b>	Carbon, 47kΩ, 1/4W, ± 5%	1	
R203	<b>ERD25TJ393</b>	Carbon, 39kΩ, 1/4W, ± 5%	1	
R204	<b>ERD25TJ102</b>	Carbon, 1kΩ, 1/4W, ± 5%	1	
R205	<b>ERD25TJ471</b>	Carbon, 470Ω, 1/4W, ± 5%	1	
R206, 207	<b>ERD25TJ333</b>	Carbon, 33kΩ, 1/4W, ± 5%	2	
R208	<b>ERD25TJ563</b>	Carbon, 56kΩ, 1/4W, ± 5%	1	
R209	<b>ERD25TJ222</b>	Carbon, 2.2kΩ, 1/4W, ± 5%	1	
R210	<b>ERD25TJ151</b>	Carbon, 150Ω, 1/4W, ± 5%	1	
R211	<b>ERD25TJ221</b>	Carbon, 220Ω, 1/4W, ± 5%	1	
R212	<b>ERD25TJ222</b>	Carbon, 2.2kΩ, 1/4W, ± 5%	1	
R213	<b>ERD25TJ223</b>	Carbon, 22kΩ, 1/4W, ± 5%	1	
R214	<b>ERD25TJ563</b>	Carbon, 56kΩ, 1/4W, ± 5%	1	
R215	<b>ERD25TJ823</b>	Carbon, 82kΩ, 1/4W, ± 5%	1	
R216	<b>ERD25TJ333</b>	Carbon, 33kΩ, 1/4W, ± 5%	1	
R217	<b>ERD25TJ123</b>	Carbon, 12kΩ, 1/4W, ± 5%	1	
R218	<b>ERD25TJ102</b>	Carbon, 1kΩ, 1/4W, ± 5%	1	
R219, 220	<b>ERD25TJ471</b>	Carbon, 470Ω, 1/4W, ± 5%	2	
R221	<b>ERD25TJ104</b>	Carbon, 100kΩ, 1/4W, ± 5%	1	
R222	<b>ERD25TJ563</b>	Carbon, 56kΩ, 1/4W, ± 5%	1	
R223	<b>ERD25TJ472</b>	Carbon, 4.7kΩ, 1/4W, ± 5%	1	

Ref. No.	Part No.	Part Name & Description			Per Set	Remarks
R224	<b>ERD25TJ473</b>	Carbon,	47kΩ,	1/4W, ± 5%	1	
R225	<b>ERD25TJ101</b>	Carbon,	100Ω,	1/4W, ± 5%	1	
R226	<b>ERD25TJ681</b>	Carbon,	680Ω,	1/4W, ± 5%	1	
R227	<b>ERD25TJ153</b>	Carbon,	15kΩ,	1/4W, ± 5%	1	
R228	<b>ERD25TJ563</b>	Carbon,	56kΩ,	1/4W, ± 5%	1	
R229	<b>ERD25TJ104</b>	Carbon,	100kΩ,	1/4W, ± 5%	1	
R230	<b>ERD25TJ103</b>	Carbon,	10kΩ,	1/4W, ± 5%	1	
R231	<b>ERD25TJ121</b>	Carbon,	120Ω,	1/4W, ± 5%	1	
R232	<b>ERD25TJ680</b>	Carbon,	68Ω,	1/4W, ± 5%	1	
R233	<b>ERD25TJ223</b>	Carbon,	22kΩ,	1/4W, ± 5%	1	
R234	<b>ERD25TJ472</b>	Carbon,	4.7kΩ,	1/4W, ± 5%	1	
R301	<b>ERD25TJ391</b>	Carbon,	390Ω,	1/4W, ± 5%	1	
R302	<b>ERD25TJ272</b>	Carbon,	2.7kΩ,	1/4W, ± 5%	1	
R303	<b>ERD25TJ102</b>	Carbon,	1kΩ,	1/4W, ± 5%	1	
R304	<b>ERD25TJ103</b>	Carbon,	10kΩ,	1/4W, ± 5%	1	
R305	<b>ERD25TJ472</b>	Carbon,	4.7kΩ,	1/4W, ± 5%	1	
R306	<b>ERD25TJ102</b>	Carbon,	1kΩ,	1/4W, ± 5%	1	
R307	<b>ERD25TJ332</b>	Carbon,	3.3kΩ,	1/4W, ± 5%	1	
R308	<b>ERD25TJ273</b>	Carbon,	27kΩ,	1/4W, ± 5%	1	
R309, 310	<b>ERD25TJ473</b>	Carbon,	47kΩ,	1/4W, ± 5%	2	
R311	<b>ERD25TJ222</b>	Carbon,	2.2kΩ,	1/4W, ± 5%	1	
R312, 313	<b>ERD25TJ153</b>	Carbon,	15kΩ,	1/4W, ± 5%	2	
R314	EXBRB7121M	Composite Resistor, 120Ω, x 7,		±20%	1	O
R315, 316, 317	<b>ERD25TJ152</b>	Carbon,	1.5kΩ,	1/4W, ± 5%	3	
R318	<b>ERD25TJ221</b>	Carbon,	220Ω,	1/4W, ± 5%	1	
R319	<b>ERD25TJ121</b>	Carbon,	120Ω,	1/4W, ± 5%	1	
R320	<b>ERD25TJ680</b>	Carbon,	68Ω,	1/4W, ± 5%	1	
R401, 402, 403	<b>ERD25TJ471</b>	Carbon,	470Ω,	1/4W, ± 5%	3	
R404, 405, 406	<b>ERD25TJ103</b>	Carbon,	10kΩ,	1/4W, ± 5%	3	
R407, 408	<b>ERD25TJ223</b>	Carbon,	22kΩ,	1/4W, ± 5%	2	
R409, 410	<b>ERD25TJ683</b>	Carbon,	68kΩ,	1/4W, ± 5%	2	
R411, 412	<b>ERD25TJ684</b>	Carbon,	680kΩ,	1/4W, ± 5%	2	
R413	<b>ERD25TJ563</b>	Carbon,	56kΩ,	1/4W, ± 5%	1	
R414	<b>ERD25TJ124</b>	Carbon,	120kΩ,	1/4W, ± 5%	1	
R415, 416	<b>ERD25TJ473</b>	Carbon,	47kΩ,	1/4W, ± 5%	2	
R417, 418	<b>ERD25TJ104</b>	Carbon,	100kΩ,	1/4W, ± 5%	2	
R419	<b>ERD25TJ471</b>	Carbon,	470Ω,	1/4W, ± 5%	1	
R420, 421	<b>ERD25TJ103</b>	Carbon,	10kΩ,	1/4W, ± 5%	2	
R422	<b>ERD25TJ104</b>	Carbon,	100kΩ,	1/4W, ± 5%	1	
R501	<b>ERD50TJ681</b>	Carbon,	680Ω,	1/2W, ± 5%	1	
R502	<b>ERD25TJ123</b>	Carbon,	12kΩ,	1/4W, ± 5%	1	
R503	<b>ERD25TJ473</b>	Carbon,	47kΩ,	1/4W, ± 5%	1	
R504	<b>ERD25TJ333</b>	Carbon,	33kΩ,	1/4W, ± 5%	1	
R505	<b>ERD25TJ274</b>	Carbon,	270kΩ,	1/4W, ± 5%	1	
R506, 507	<b>ERD25TJ274</b>	Carbon,	270kΩ,	1/4W, ± 5%	2	
R508	<b>ERD25TJ393</b>	Carbon,	39kΩ,	1/4W, ± 5%	1	
R509	<b>ERD25TJ221</b>	Carbon,	220Ω,	1/4W, ± 5%	1	
R510	<b>ERD25TJ824</b>	Carbon,	820kΩ,	1/4W, ± 5%	1	
R511	<b>ERD25TJ333</b>	Carbon,	33kΩ,	1/4W, ± 5%	1	
R512	<b>ERD25TJ183</b>	Carbon,	18kΩ,	1/4W, ± 5%	1	
R513	<b>ERD25TJ473</b>	Carbon,	47kΩ,	1/4W, ± 5%	1	
R514	<b>ERD25TJ123</b>	Carbon,	12kΩ,	1/4W, ± 5%	1	
R515	<b>ERD25TJ472</b>	Carbon,	4.7kΩ,	1/4W, ± 5%	1	
R516	<b>ERD25TJ473</b>	Carbon,	47kΩ,	1/4W, ± 5%	1	
R517	<b>ERD25TJ393</b>	Carbon,	39kΩ,	1/4W, ± 5%	1	
R518	<b>ERD25TJ102</b>	Carbon,	1kΩ,	1/4W, ± 5%	1	
R601	<b>ERD50TJ4R7</b>	Carbon,	4.7Ω,	1/2W, ± 5%	1	

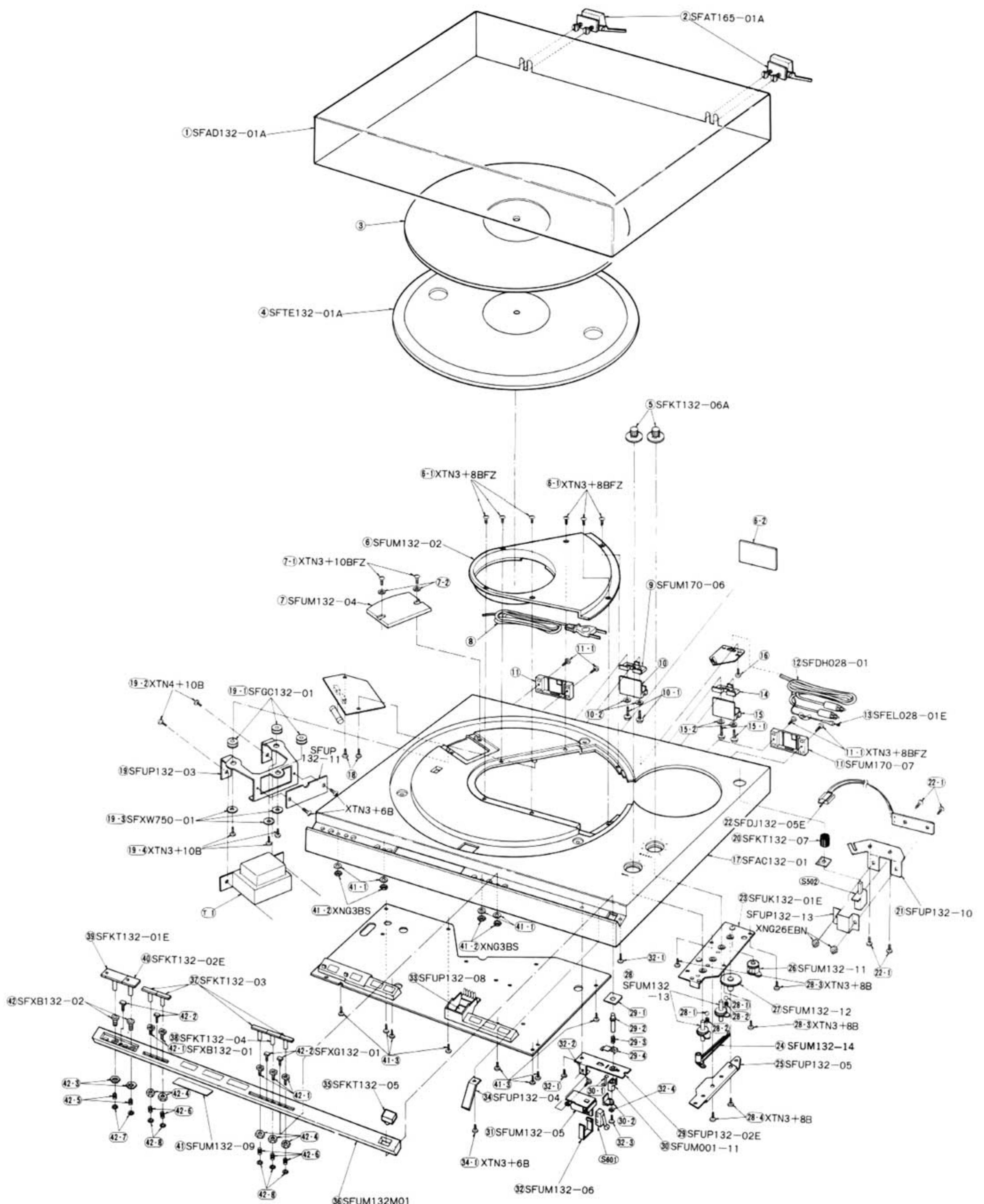
Ref. No.	Part No.	Part Name & Description			Per Set	Remarks
<b>VARIABLE RESISTORS</b>						
VR101	<b>EVLS3AA00B14</b>	Period Adjustment			1	○
VR201	<b>EVLS3AA00B24</b>	VS Adjustment			1	
VR202	<b>EVLS3AA00B24</b>	IR Adjustment			1	
VR203	<b>EVLS3AA00B54</b>	Brake Adjustment			1	○
VR501	<b>EVLS3AA00B24</b>	Gain Adjustment			1	○
VR502	<b>EVLS3AA00B55</b>	Time Adjustment			1	○
<b>CAPACITORS</b>						
C1	<b>ECEB35V330</b>	Electrolytic,	330μF,	35V	1	
C2	<b>ECEA25V33</b>	Electrolytic,	33μF,	25V	1	
C3	<b>ECEA16V10</b>	Electrolytic,	10μF,	16V	1	
C4	<b>ECEA16V47</b>	Electrolytic,	47μF,	16V	1	
C5	<b>ECEB50V470</b>	Electrolytic,	470μF,	50V	1	
C6	<b>ECEA25V33</b>	Electrolytic,	33μF,	25V	1	
C101, 102, 103	<b>ECEA25V33</b>	Electrolytic,	33μF,	25V	3	
C104	<b>ECQM1H104KZ</b>	Polyester,	0.1μF,	50V, ±10%	1	
C105	<b>ECSZ25EF1</b>	Electrolytic,	1μF,	25V	1	
C106	<b>ECSZ25EF2R2</b>	Electrolytic,	2.2μF,	25V	1	
C107	<b>ECSZ25EF1</b>	Electrolytic,	1μF,	25V	1	
C108	<b>ECQM1H223KZ</b>	Polyester,	0.022μF,	50V, ±10%	1	
C109	<b>ECEA25Z100</b>	Electrolytic,	100μF,	25V	1	
C110	<b>ECQM05154KZ</b>	Polyester,	0.15μF,	50V, ±10%	1	
C111	<b>ECQM1H333KZ</b>	Polyester,	0.033μF,	50V, ±10%	1	
C112	<b>ECQM1H104KZ</b>	Polyester,	0.1μF,	50V, ±10%	1	
C113	<b>ECQM1H562KZ</b>	Polyester,	0.0056μF,	50V, ±10%	1	
C114	<b>ECEA25V100</b>	Electrolytic,	100μF,	25V	1	
C115	<b>ECEA16V10</b>	Electrolytic,	10μF,	16V	1	
C201	<b>ECKD1E104ZFZ</b>	Ceramic,	0.1μF,	50V,	1	
C202	<b>ECEA25V2R2</b>	Electrolytic,	2.2μF,	25V	1	
C203	<b>ECSZ25EF2R2</b>	Electrolytic,	2.2μF,	25V	1	
C204	<b>ECCD1H330K</b>	Ceramic,	33pF,	50V, ±10%	1	
C205, 206	<b>ECCD1H331K</b>	Ceramic,	330pF,	50V, ±10%	2	
C207	<b>ECQM1H822KZ</b>	Polyester,	0.0082μF,	50V, ±10%	1	
C208, 209	<b>ECSZ25EF1</b>	Electrolytic,	1μF,	25V	2	
C210	<b>ECQM1H103KZ</b>	Polyester,	0.01μF,	50V, ±10%	1	
C211	<b>ECQM1H563KZ</b>	Polyester,	0.056μF,	50V, ±10%	1	
C212	<b>ECQM1H104KZ</b>	Polyester,	0.1μF,	50V, ±10%	1	
C213	<b>ECEA16V10</b>	Electrolytic,	10μF,	16V	1	
C214	<b>ECQM1H562KZ</b>	Polyester,	0.0056μF,	50V, ±10%	1	
C215	<b>ECQM1H562KZ</b>	Polyester,	0.0056μF,	50V, ±10%	1	
C216, 217	<b>ECQM1H104KZ</b>	Polyester,	0.1μF,	50V, ±10%	2	
C218	<b>ECQM1H562KZ</b>	Polyester,	0.0056μF,	50V, ±10%	1	
C219, 220	<b>ECQM1H104KZ</b>	Polyester,	0.1μF,	50V, ±10%	2	
C221	<b>ECKD1E104ZFZ</b>	Ceramic,	0.1μF,	50V,	1	
C222	<b>ECEA50V4R7</b>	Electrolytic,	4.7μF,	50V	1	
C223	<b>ECEA50V1</b>	Electrolytic,	1μF,	50V	1	
C224	<b>ECEA16V10</b> </					



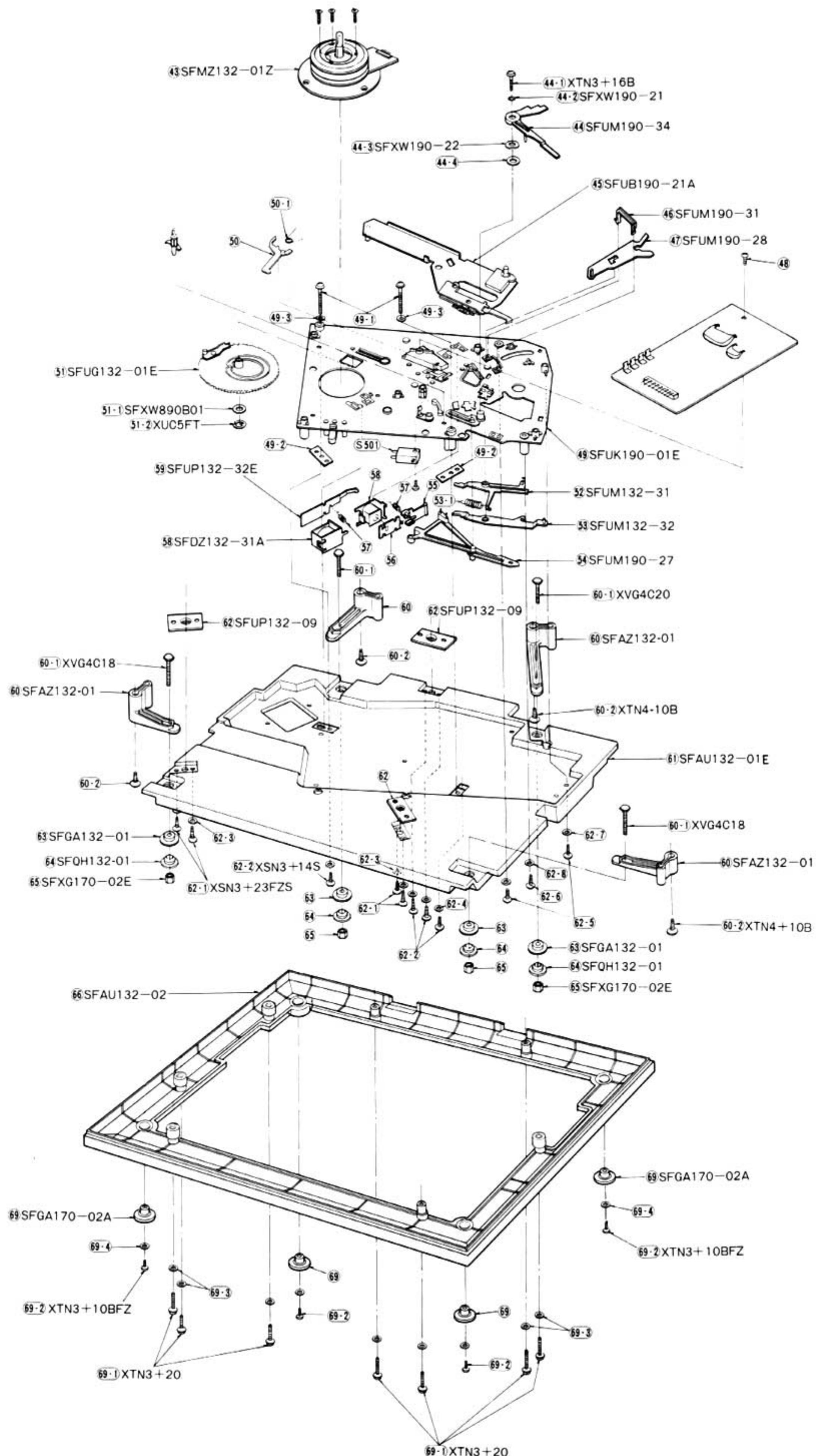
## ■ EXPLODED VIEW



# ■ EXPLODED VIEW



## ■ EXPLODED VIEW



Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
49-1	<b>XTN4+35B</b>	Screw, Automatic Mechanism	2		TA10-3	SFPZB13212	Pin, Tone Arm Bracket Screw	1	○
49-2	SFUP190-02	Bracket, Automatic Mechanism Base	2		TA10-4	SFPSP13204	Spring, Tone Arm Bracket Screw	1	○
49-3	<b>XWG4</b>	Washer, Automatic Mechanism	2		TA11	SFPSH13201	Support, Anti-skate Force Control	1	○
50	SFUM190-26	Support, Gear Setting	1		TA11-1	XWE3A7BW	Washer, Anti-skate Force Control Support	1	
50-1	SFQS190-21	Spring, Gear Setting Support	1		TA11-2	<b>XTN3+5B</b>	Screw, Anti-Skate Force Control Support	1	
51	SFUG132-01E	Main Gear Ass'y	1	○	TA12	SFPJK17002	Cam, Anti-Skate Force Control	1	
51-1	SFXW890B01	Washer, Main Gear	1		TA12-1	SFPEW13005	Washer, Anti-Skate Force Control Knob	1	
51-2	<b>XUC5FT</b>	Circlip, Main Gear	1		TA12-2	<b>XTN26+5B</b>	Screw, Anti-Skate Force Control	1	
52	SFUM132-31	Lever, Start Set	1	○	TA13	SFPGM20001	Rubber, Cueing Lever	1	
53	SFUM132-32	Support, Start Set Lever	1	○	TA14	SFPJL13201K	Cueing Lever Ass'y	1	○
53-1	SFQH130-14	Spring, Start Set Lever Support	1		TA15	SFPZB13204	Plate, Arm Rest	1	○
54	SFUM190-27	Lever, Switching	1		TA16	SFPAB13202	Knob, Arm Lift	1	○
55	SFUM132-33	Support, Solenoid	1	○	TA17	SFPJL13203K	Lift Bar Ass'y	1	○
56	SFUP132-31E	Support, Solenoid	1	○	TA18-2	FPSP13201	Spring, Arm Lift Base	1	○
57	SFQH910-05	Spring, Solenoid	2		TA18-3	XWE4A10BW	Washer, Arm Lift Base	1	
58	SFDZ132-31A	Solenoid Ass'y	2	○	TA18-4	<b>XUC3FT</b>	Circlip, Arm Lift Base	1	
59	SFUP132-32E	Support, Solenoid	1	○	TA19	SFPRT13201K	Arm Rest	1	○
60	SFAZ132-01	Insulator (A)	4	○	TA20	SFPAB13203	Plate, Lift	1	○
60-1	XVG4C18	Screw, Insulator (A)	4		TA21	SFPZB13208	Support, Lift	1	○
60-2	<b>XTN4+10B</b>	Screw, Insulator (A)	4		TA21-1	<b>XTN3+5B</b>	Screw, Lift Support	2	
61	SFAU132-01E	Base, Main	1		TA22	SFPZB13205K	Support, P.C.B.	1	○
62	SFUP132-09	Bracket, Main Base	3	○	TA22-1	XSN26+8S	Screw, Support	2	
62-1	<b>XSN3+23FZS</b>	Screw, Main Base Bracket	4		TA23	SFPAB13213K	Base, Arm Lift	1	○
62-2	<b>XSN3+14S</b>	Screw, Main Base Bracket	4		TA23-1	<b>XSN3+5S</b>	Screw, Arm Lift Base	2	
62-3	<b>XWG3</b>	Washer, Main Base Bracket	4		TA23-2	SFPSP13202	Spring	1	○
62-4	<b>XWG3</b>	Washer, Main Base Bracket	4		TA23-3	<b>XSN3+3S</b>	Screw, Spring	1	
62-5	<b>XTN4+35B</b>	Screw, Main Base	2		TA23-4	<b>XWA26B</b>	Washer, Arm Rest	1	
62-6	<b>XTN3+35B</b>	Screw, Main Base	6		TA23-5	<b>XNG26BFN</b>	Nut, Arm Rest	1	
62-7	<b>XWG4</b>	Washer, Main Base	2		TA24	SFPAB13218K	Cord, PU Output Ass'y	1	○
62-8	<b>XWG3</b>	Washer, Main Base	6		TA24-1	<b>XWA3B</b>	Washer, P.C.B. Ass'y	2	
63	SFGA132-01	Rubber, Insulator (A)	4	○	TA24-2	<b>XSN3+3S</b>	Screw, P.C.B. Ass'y	2	
64	SFQH132-01	Spring, Insulator (A)	4	○	TA25	SFPAB13209A	Tone Arm Fixing Plate Ass'y	1	○
65	SFXG170-02E	Nut, Insulator (A)	4		TA25-1	SFPSP00101	Spring	1	
66	SFAU132-02A	Bottom, Cover	1	○	TA25-2	SFPSP13205	Spring, Tone Arm Fixing Plate Ass'y	1	
69	SFGA170-02A	Insulator (B)	4		TA25-3	<b>XSN3+6S</b>	Screw	2	
69-1	<b>XTN3+20</b>	Screw, Bottom Cover	7						
69-2	<b>XTN3+10BFZ</b>	Screw, Insulator (B)	4						
69-3	<b>XWG3</b>	Washer, Bottom Cover	7						
69-4	<b>XWG4</b>	Washer, Insulator (B)	4						

#### TONE ARM and ARM BASE

TA1	SFPWG13201K	Balance Weight Ass'y	1	○
TA2	SFPAM13201K	Tone Arm Ass'y	1	○
TA3	SFPCC10001K	Head Shell	1	○
TA4	SFXG829-1	Screw, Tone Arm Lift Adjustment	1	
TA5	SFPRT19001K	Lift Ass'y	1	
TA5-1	SFQA829-03	Spring, Lift Ass'y	1	
TA6	SFGK132M01	Cap, Rubber	3	○
TA7	SFPJK13202	Knob, Anti-skate Force Control	1	○
TA8	SFPKD13201	Arm Base	1	○
TA9	SFPZB13209	Bracket, Tone Arm	1	○
TA10	SFPEV13201	Screw, Tone Arm Bracket	1	○
TA10-1	SFPZB13211	Cover, Spring	1	○
TA10-2	SFPSP13203	Spring, Tone Arm Bracket Screw	1	○

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
TA10-3	SFPZB13212	Pin, Tone Arm Bracket Screw	1	○
TA10-4	SFPSP13204	Spring, Tone Arm Bracket Screw	1	○
TA11	SFPSH13201	Support, Anti-skate Force Control	1	○
TA11-1	XWE3A7BW	Washer, Anti-skate Force Control Support	1	
TA11-2	<b>XTN3+5B</b>	Screw, Anti-Skate Force Control Support	1	
TA12	SFPJK17002	Cam, Anti-Skate Force Control	1	
TA12-1	SFPEW13005	Washer, Anti-Skate Force Control Knob	1	
TA12-2	<b>XTN26+5B</b>	Screw, Anti-Skate Force Control	1	
TA13	SFPGM20001	Rubber, Cueing Lever	1	
TA14	SFPJL13201K	Cueing Lever Ass'y	1	○
TA15	SFPZB13204	Plate, Arm Rest	1	○
TA16	SFPAB13202	Knob, Arm Lift	1	○
TA17	SFPJL13203K	Lift Bar Ass'y	1	○
TA18-2	FPSP13201	Spring, Arm Lift Base	1	○
TA18-3	XWE4A10BW	Washer, Arm Lift Base	1	
TA18-4	<b>XUC3FT</b>	Circlip, Arm Lift Base	1	
TA19	SFPRT13201K	Arm Rest	1	○
TA20	SFPAB13203	Plate, Lift	1	○
TA21	SFPZB13208	Support, Lift	1	○
TA21-1	<b>XTN3+5B</b>	Screw, Lift Support	2	
TA22	SFPZB13205K	Support, P.C.B.	1	○
TA22-1	XSN26+8S	Screw, Support	2	
TA23	SFPAB13213K	Base, Arm Lift	1	○
TA23-1	<b>XSN3+5S</b>	Screw, Arm Lift Base	2	
TA23-2	SFPSP13202	Spring	1	○
TA23-3	<b>XSN3+3S</b>	Screw, Spring	1	
TA23-4	<b>XWA26B</b>	Washer, Arm Rest	1	
TA23-5	<b>XNG26BFN</b>	Nut, Arm Rest	1	
TA24	SFPAB13218K	Cord, PU Output Ass'y	1	○
TA24-1	<b>XWA3B</b>	Washer, P.C.B. Ass'y	2	
TA24-2	<b>XSN3+3S</b>	Screw, P.C.B. Ass'y	2	
TA25	SFPAB13209A	Tone Arm Fixing Plate Ass'y	1	○
TA25-1	SFPSP00101	Spring	1	
TA25-2	SFPSP13205	Spring, Tone Arm Fixing Plate Ass'y	1	
TA25-3	<b>XSN3+6S</b>	Screw	2	

#### ACCESSORIES

A1	SFNU132M01	Instruction Book	1	○
A2	<b>SFWE154A1</b>	Adaptor, 45 r.p.m	1	
A3	SFCFB20502	Driver, Screw	1	
A4	SFWO010	Oil	1	
A5	SFPEV7803	Screw, Cartridge	2	
A5-1	SFPEV10005	Screw, Cartridge	2	
A5-2	SFPEV10009	Screw, Cartridge	2	
A5-3	SFPEN9200	Nut, Cartridge	2	
A5-4	SFYF05A06	Polyethylene Bag	1	

#### PACKING PARTS

P1	SFHPI32M01	Carton	1	○
P2	SFHH132-01	Pad, Front	1	○
P3	SFHH132-02	Pad, Rear	1	○
P4	SFHD132-02	Pad, Turntable	1	○

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
P5	SFHD132-01	Pad, Top	1	○
P6	SFHH170-03	Parts Box	1	
P7	SFHD170-03	Pad, Top, Parts Box	1	
P7-1	SFYC22A30	Polyethylene Cover	1	
P8	XST6D30B	Screw, Clamp	3	○
P9	SFYF60A60	Polyethylene Bag, Player Unit	1	
P9-1	SFYH40X45	Polyethylene Bag, Turntable	1	
P9-2	SFYH10X30	Polyethylene Bag, AC Cord	2	○

## ■ PACKINGS

