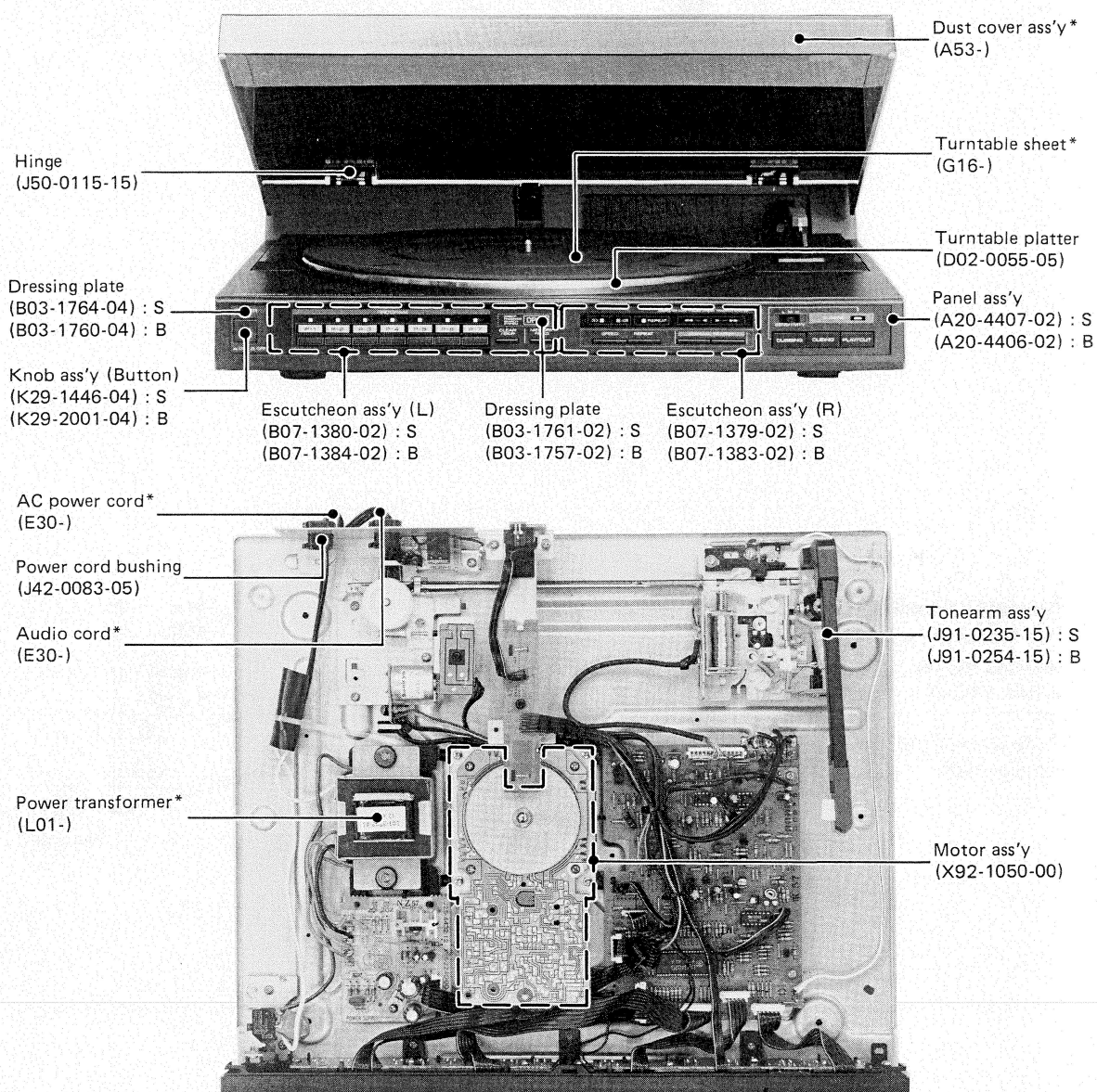


KENWOOD

KD-74F

FULL AUTOMATIC TURNTABLE



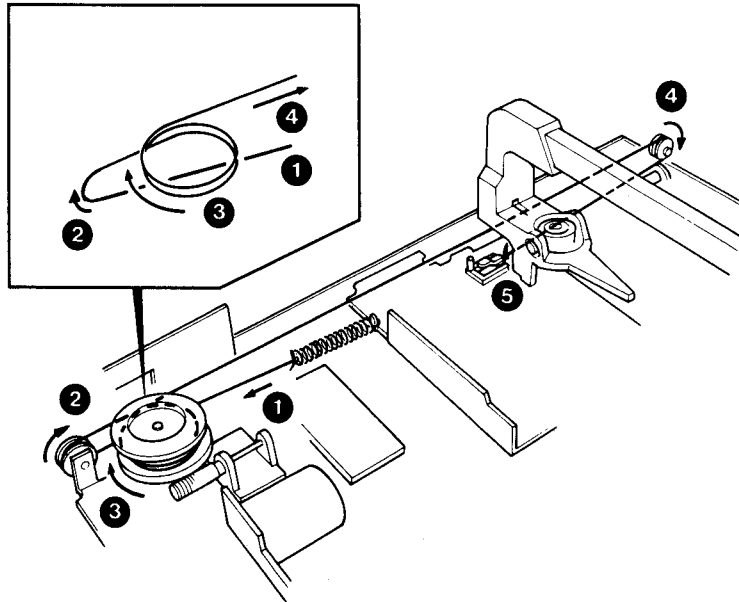
*Refer to parts list on page 33.
 Photo is KD-74F (Black version).
 S : Silver version.
 B : Black version.

DIAL CORD STRINGING/OPERATION DESCRIPTION

DIAL CORD STRINGING

1. Tie the cord to the spring and hook the spring to the projection of the holder (1).
2. Hook the cord to pulley (2) from lower side and then move it in the direction shows arrow to hook to the pulley (3).

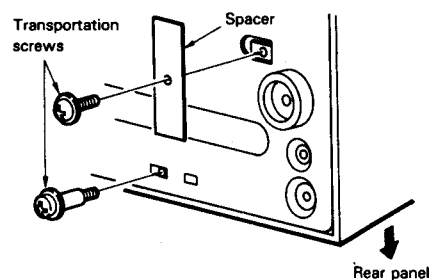
3. Wind the cord twice around the pulley (3) from lower side and hook the cord to the pulley (4) from upper side.
5. Hook the loop of the cord to the holder (5).



Tonearm retaining screw

The tonearm is secured with 2 screws to prevent damage during shipment. Be sure to remove the screws with red heads from the bottom plate before use.

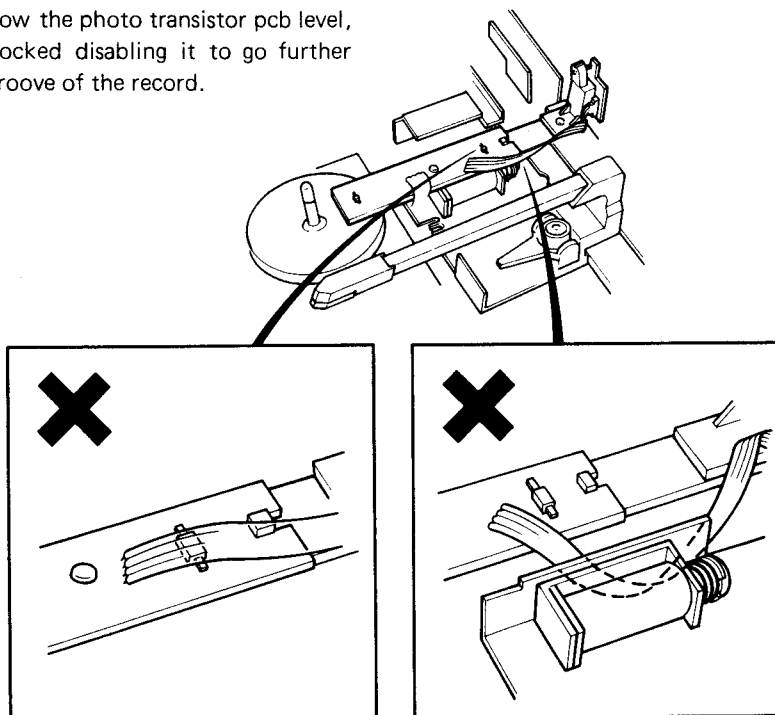
These screws and spacer should be retained for use in transportation.



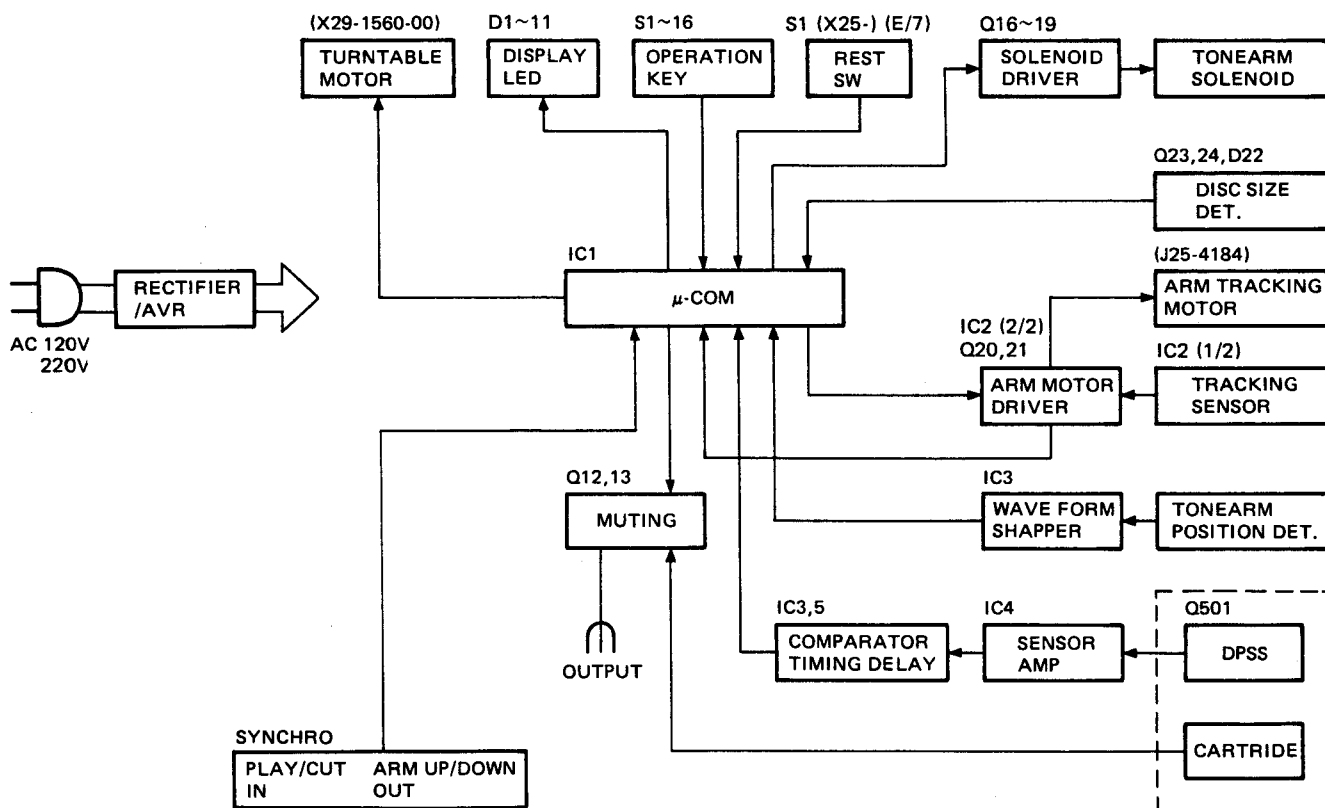
DISASSEMBLY FOR REPAIR/BLOCK DIAGRAM

NOTES FOR REASSEMBLY

Before putting the turntable case on, be sure that photo transistors are not blinded by the parallel cord. Also if the parallel cord is placed below the photo transistor pcb level, tonearm ass'y will be blocked disabling it to go further inward to the innermost groove of the record.

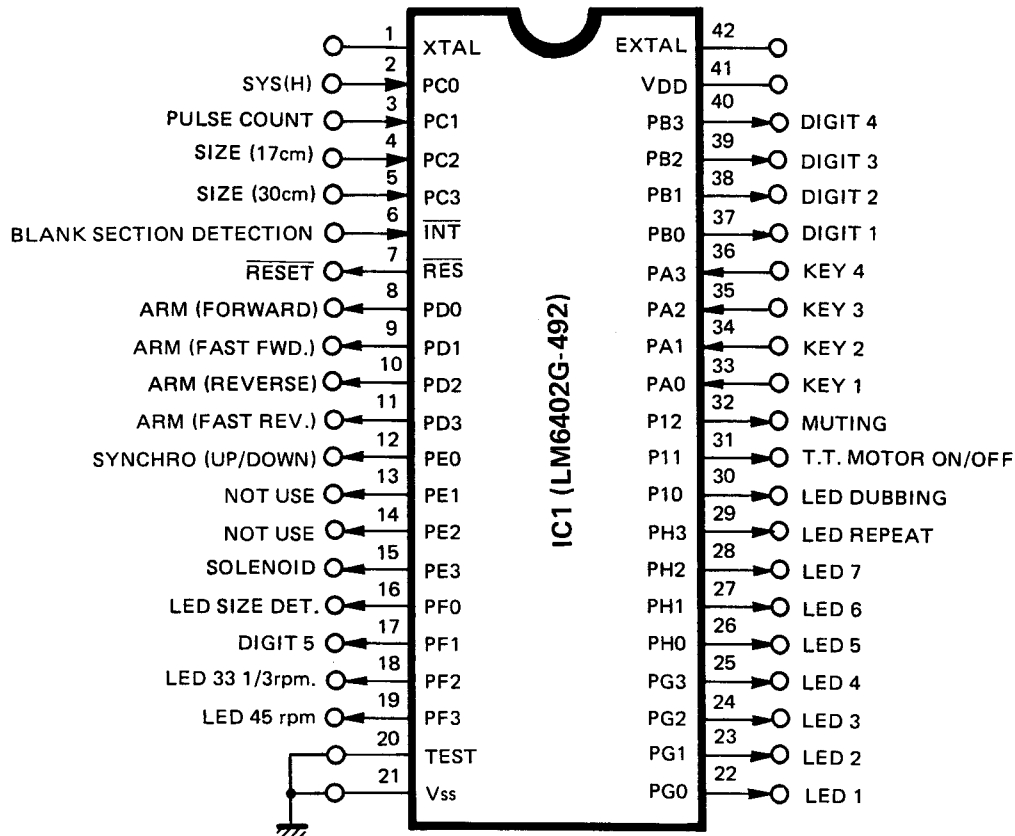


BLOCK DIAGRAM

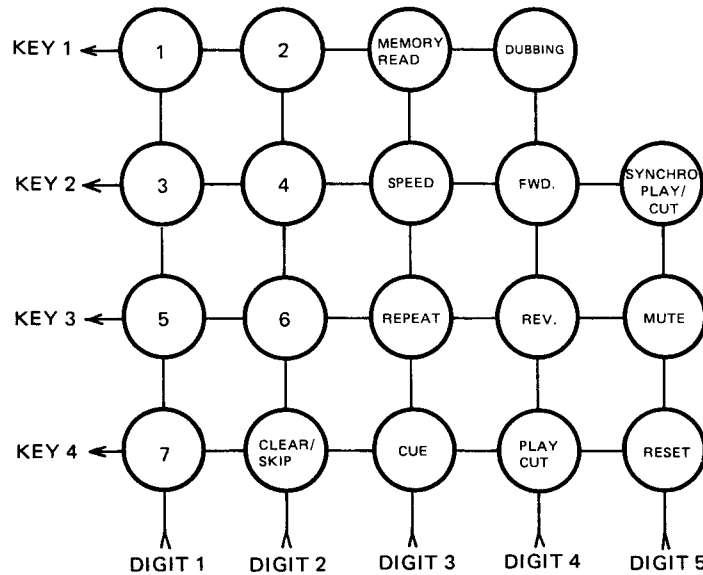


CIRCUIT DESCRIPTION

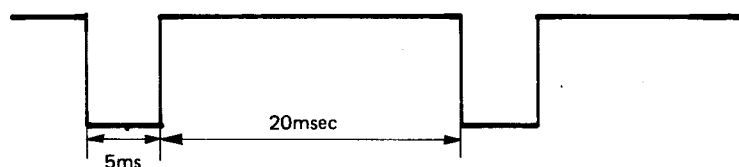
Description of port functions : IC1 (LM6402G-492)



Key matrix



Digital signal



CIRCUIT DESCRIPTION

Functions of the LM6402G-492 terminals

Pin No.	Name	I/O	Functions/operations
1	Xtal	I	Clock oscillation terminal, oscillation frequency 770kHz.
2	PC0	I	System switching port. Preset at SYSTEM : "H".
3	PC1	I	Pulse count. Counts the distance of movement (number of pulses) in relation to the variation of the level of the photointerrupter output of the arm drive section. (Refer to "waveform at arm drive circuit and muting circuit" on page 12.)
4	PC2	I	Size detection (17cm). "L" : Record loaded, "H" : No record. Detects the record size by the size-detection phototransistor.
5	PC3	I	Size detection (30cm). "L" : Record loaded, "H" : No record.
6	$\overline{\text{DPSS}}$ (INT)	I	Blank section detection terminal. Detects blanks between programs. Interrupt occurs by the fall from "H" to "L". Required pulse width : 4tc or more $t_c = \frac{1}{\text{Oscillation frequency}}$ (sec)
7	RESET	I	Reset terminal when POWER is switched ON/OFF. Reset occurs with "L" level, putting all ports to "H" level. At "L" level, 4tc or more is required.
8	PD0	O	Arm drive motor control port. During FWD movement : "H" (in both normal and high speed) In other modes : "L"
9	PD1	O	Arm drive motor control port. During FWD movement : "H" In other mode : "L"
10	PD2	O	Arm drive motor control port. During REV movement : "H" (in both normal and high speed) In other modes : "L"
11	PD3	O	Arm drive motor control port. During REV movement : "H" In other modes : "L"
12	PE0	O	Sync recording control port. Outputs signal in synchronization with the MUTING output.
13	PE1	O	Not use
14	PE2	O	Not use
15	PE3	O	SOLENOID control port. Controls the solenoid for up/down operation of tonearm. Solenoid OFF (arm UP) : "H" Solenoid ON (arm DOWN) : "L"
16	PF0	O	LED drive port. Drives the infrared LED for size detection. LED ON : "L" LED OFF : "H"
17	PF1	O	DIGIT signal output port. DIGIT 5 ON : "L"
18	PF2	O	LED drive port. 33 3/1 setting "L"
19	PF3	O	LED drive port. 45 setting : "L"
20	TEST		TEST GND
21	Vss		Vss GND
22	PG0	O	LED drive port. "1" ON : "L"
23	PG1	O	LED drive port. "2" ON : "L"
24	PG2	O	LED drive port. "3" ON : "L"
25	PG3	O	LED drive port. "4" ON : "L"
26	PH0	O	LED drive port. "5" ON : "L"
27	PH1	O	LED drive port. "6" ON : "L"
28	PH2	O	LED drive port. "7" ON : "L"
29	PH3	O	LED drive port. "REPEAT" ON : "L"
30	PI0	O	LED drive port. "SYNCHRO" ON : "L"
31	PI1	O	T.T. ON/OFF control port. T.T. ON : "L" T.T. OFF : "H"
32	PI2	O	MUTING control port. MUTING ON : "H" MUTING OFF : "L"

CIRCUIT DESCRIPTION

Pin No.	Name	I/O	Functions/operations
33	PA0	I	Key matrix input port. SW ON : "L"
34	PA1	I	Key matrix input port. SW ON : "L"
35	PA2	I	Key matrix input port. SW ON : "L"
36	PA3	I	Key matrix input port. SW ON : "L"
37	PB0	O	DIGIT signal output port. DIGIT 1 ON : "L"
38	PB1	O	DIGIT signal output port. DIGIT 2 ON : "L"
39	PB2	O	DIGIT signal output port. DIGIT 3 ON : "L"
40	PB3	O	DIGIT signal output port. DIGIT 4 ON : "L"
41	VDD		5V (±10%)
42	EXtal		CLOCK oscillation terminal.

Muting open/close conditions

Open condition

- 1) When tracking error signal is accepted from hardware after the arm lift-down signal.
- 2) During play and after muting has been closed by speed detection, when the opening condition occurs by a new speed detection.

Close condition

- 1) During arm lift-up operation.
- 2) After the arm lift-up signal is accepted.
- 3) After speed detection (in normal state).

Speed detection

- 1) Muting is closed when pulses of 50ms or less are input 16 times or more.
- 2) Muting is opened when a pulse of 500 ms or more is input.

Initial setting after switching power on

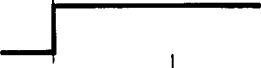
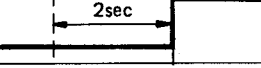
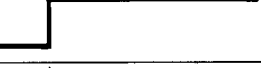
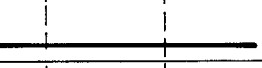
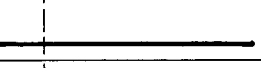
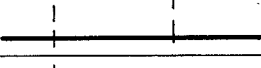
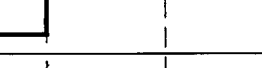
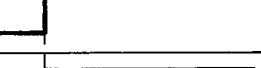
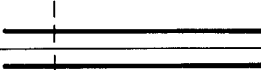
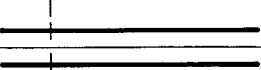
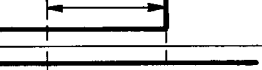
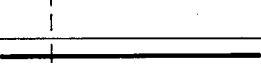
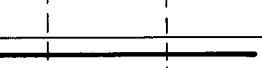
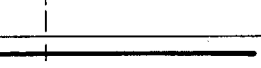
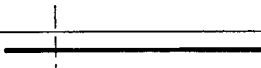
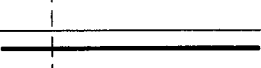
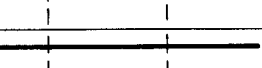
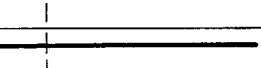
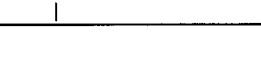
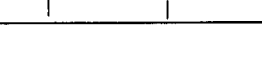
PEP	DIGIT	DUBBING	33	TT MOTOR ON/OFF	LED SIZE DET	SOLENOID	MUTING	PROGRAM SEARCH LED (1~7)
H	H	H	H	H	H	H	H	H

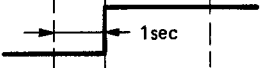
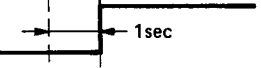
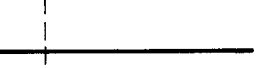
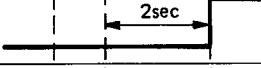
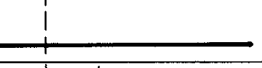
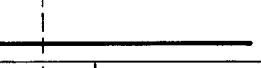
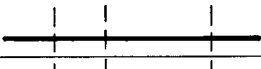
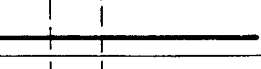
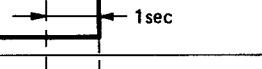
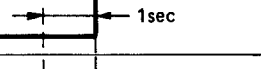
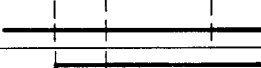
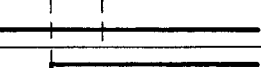
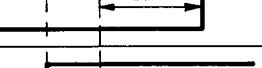
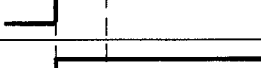
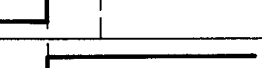
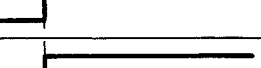
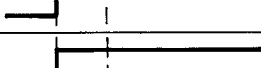
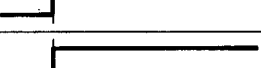
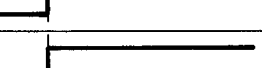
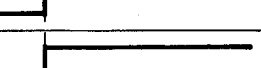
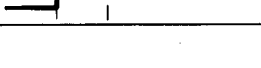
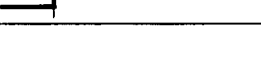
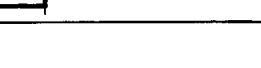
REMOTE (SYNCHRO)	REMOTE (REST)	REMOTE (PLAY)	ARM FWD	ARM REV	ARM HI FWD	ARM HI REV	45
H	H	H	L	*1	*1	*1	H

Note : *1 When the tonearm is on the arm rest : "L"
 When the tonearm is not on the arm rest : "H"
 When the tonearm is returned onto the arm rest : "L"

CIRCUIT DESCRIPTION

Timing diagram

OPERATION MODE	STOP→FORWARD (MANUAL)	STOP→FORWARD (AUTO)	STOP→REVERSE (MANUAL)	STOP→REVERSE (AUTO)
FWD 8pin				
FAST FWD 9pin				
REV 10pin				
FAST REV 11pin				
SOLENOID 15pin				
MUTING 32pin				
SYNCHRO MUTE (SYNCHRO : ON) 12pin				

OPERATION MODE	DOWN→FORWARD (MANUAL)	DOWN→FORWARD (AUTO)	DOWN→REVERSE (MANUAL)	DOWN→REVERSE (AUTO)
FWD 8pin				
FAST FWD 9pin				
REV 10pin				
FAST REV 11pin				
SOLENOID 15pin				
MUTING 32pin				
SYNCHRO MUTE (SYNCHRO : ON) 12pin				

CIRCUIT DESCRIPTION

OPERATION MODE	DOWN → STOP (UP)	FORWARD → REVERSE	REVERSE → FORWARD	STOP (UP) → DOWN
FWD 8pin				
FAST FWD 9pin				
REV 10pin				
FAST REV 11pin				
SOLENOID 15pin				
MUTING 32pin				
SYNCHRO MUTE (SYNCHRO : ON) 12pin				

OPERATION MODE	NORMAL AUTO PLAY	
FWD 8pin		
FAST FWD 9pin		
REV 10pin		
FAST REV 11pin		
SOLENOID 15pin		
MUTING 32pin		
SYNCHRO MUTE (SYNCHRO : ON) 12pin		

P/C
ON

CIRCUIT DESCRIPTION

Description of components

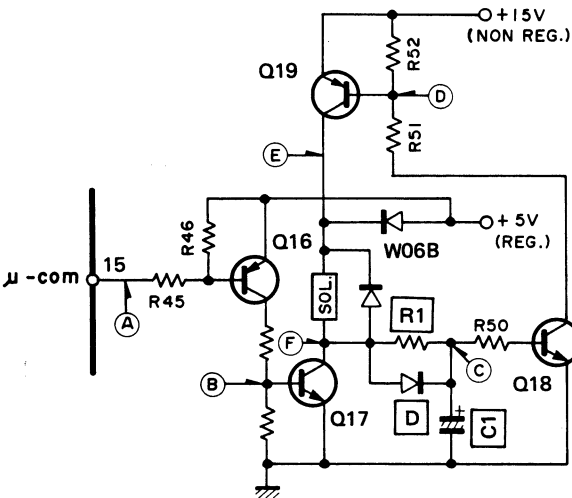
Components	Functions	Operations/substitutions
IC1	Microprocessor	Refer to the operation description of LM6402G-492. (P.9~)
IC2	Tracking sensor amp	Pins 1~3 : RC4558P or AN6556
	Arm drive control	Pins 5~7 : RC4558P or AN6556
IC3	Monostable multivibrator Pulse-count waveform shape	Pins 1~6 : The waveform detected from blank section is shaped to generate the specified pulse. Pins 8~13 : The pulse-count waveform is shaped. (See description on the pulse-count waveform shaping circuit.)
IC4	Logarithmic amp	Absorbs the irregularity of the sensitivity of the blank section sensor.
IC5	AC amp	Pins 1~3 : Record cutting level. Cuts the DC component due to light disturbance and amplifies the difference between programs and blanks.
	Comparator	Pins 5~7 : Distinguishes between the grooves and blank sections.
Q1	Regulated power supply	Voltage control.
Q11	Microprocessor interface	Controls muting transistors (Q12, Q13) by the muting release signal from the microprocessor.
Q12, Q13	Muting control	Muting is OFF when they are ON.
Q14	Microprocessor interface	Interface between the muting release signal and microprocessor.
Q15	Arm operation error	When the tonearm is up, the tracking sensor output is short-circuited so that the tonearm does not move by the tracking sensor output.
Q16	Tonearm up/down solenoid driver control	Turns solenoid driver (Q17) ON by the solenoid signal of the microprocessor.
Q17	Tonearm up/down solenoid driver	Turns the solenoid ON by the solenoid signal of the microprocessor.
Q18	Solenoid kick driver transistor control	Turns OFF at the same time as muting release and turns kick driver (Q19) OFF to stop the kick.
Q19	Solenoid kick driver	Turns ON at the same time Q17 is tuned ON to switch ON the kick.
Q20	Tonearm shift motor driver	ON during REV movement.
Q21	Tonearm shift motor driver	ON during FWD movement.
Q22	Microprocessor interface	Turns ON by the microprocessor synchro signal (synchronized with the muting signal) to output the signal (UP/DOWN.)
Q23	Record size detection	Record size detection phototransistor (for 30cm).
Q24	Record size detection	Record size detection phototransistor (for 17cm).
Q25	Muting level detection	Detects the tracking error voltage and supplies the muting release signal to Q14.
Q26	AGC	
Q27	Reset switch detection	
D1~D7	Random program select	Indicate the program select key is pressed for input.
D8	Turntable revolution indicator LED	For 33 1/3rpm.
D9	Turntable revolution indicator LED	For 45rpm.
D10	Repeat indicator LED	Indicates the repeat key is pressed for input.
D11	Dubbing indicator LED	Indicates the dubbing key is pressed for input.
D22	Record size detection LED	The size-detection infrared LED is light for 2 seconds by pressing the play/cut key.
Q201	Inhibit (synchro)	
Q202	PLAY/CUT (synchro)	
Q203	PLAY (synchro)	
Q204	DUBBING (synchro)	

CIRCUIT DESCRIPTION

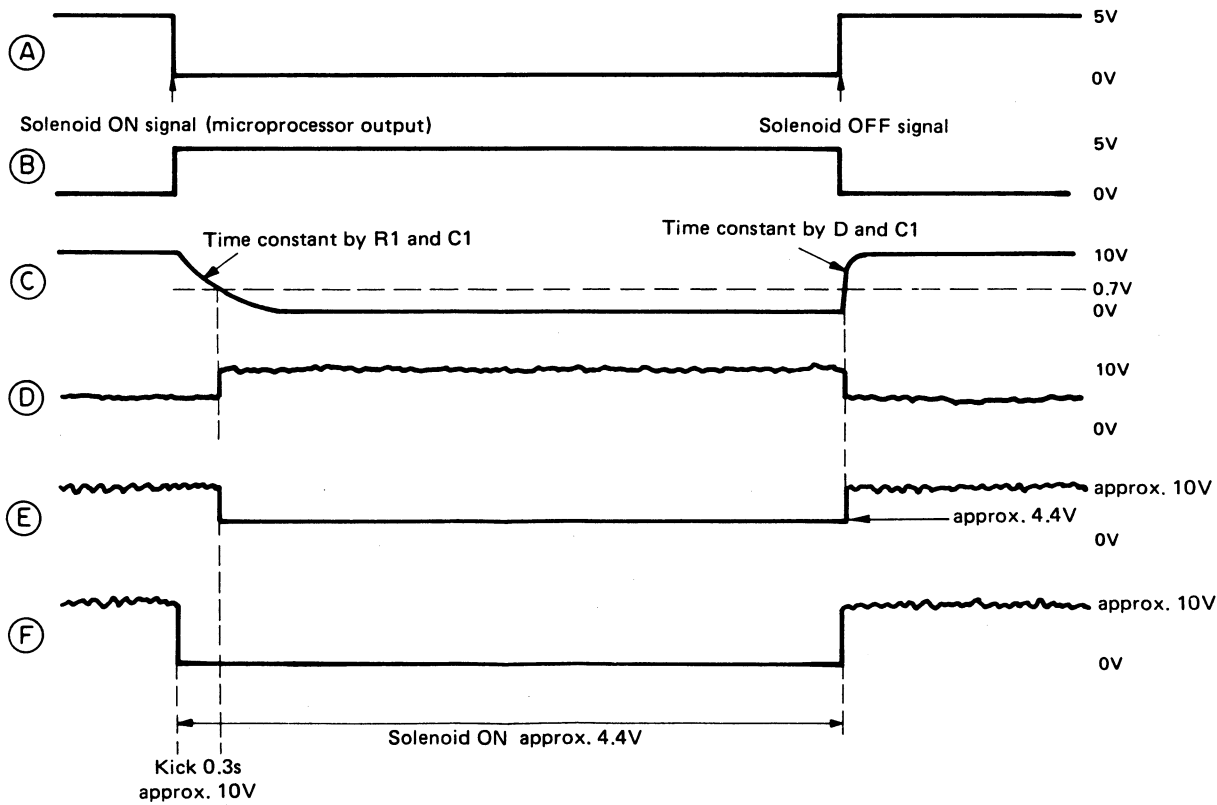
Signals for synchronized operation with amplifier

- UP/DOWN signal
Output synchronized with muting ON/OFF. (constant).
- PLAY/CUT signal
LOW → HI : Effective only when the tonearm stands by on the arm rest. Auto play starts.
HI → LOW : Auto cut occurs.

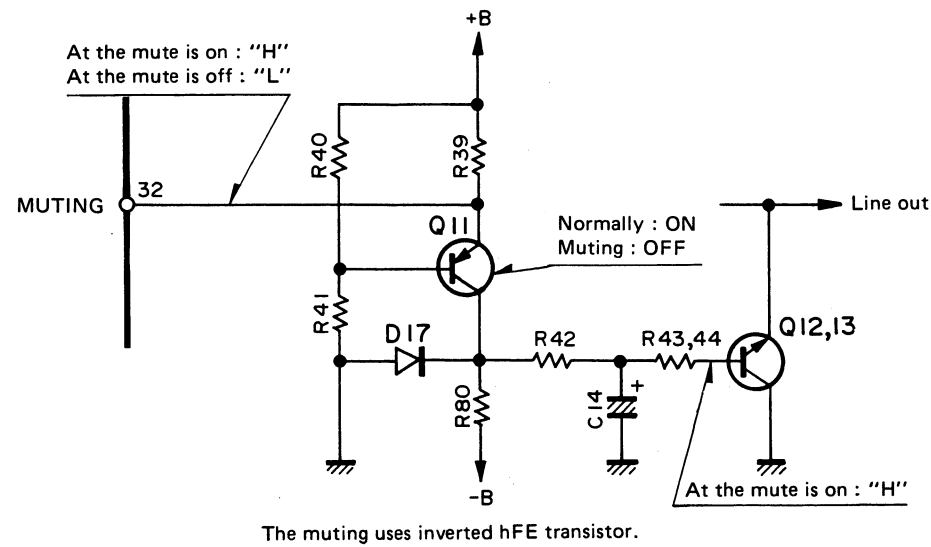
Plunger drive circuit



Waveforms at the sections (timing chart)



CIRCUIT DESCRIPTION

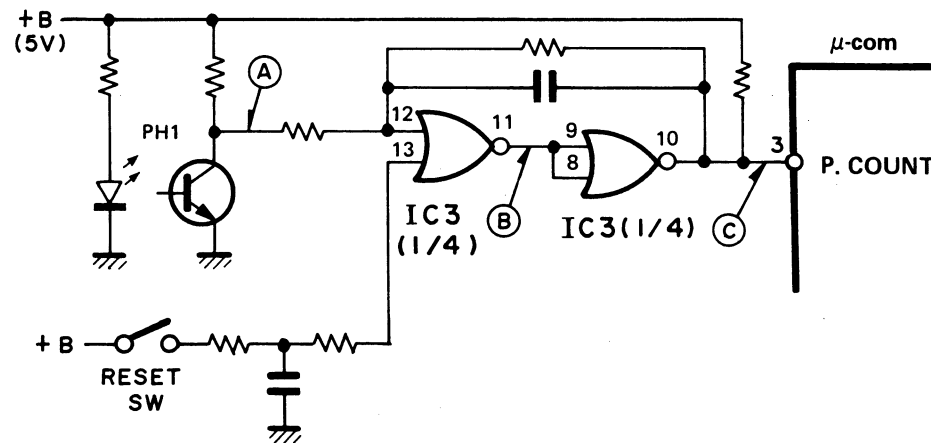


Power supply circuits

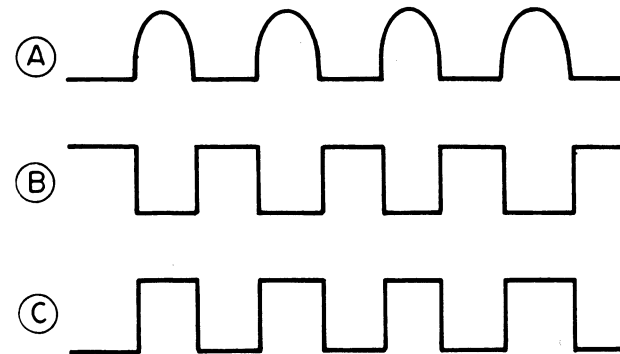
Two circuits : + 5V regulated power supply and $\pm 15V$ non-regulated power supply.

Pulse-count waveform shaping circuit

The pulse count reads the level variation. The minimum pulse width read is 5ms or less.



Waveforms at sections A~C



CIRCUIT DESCRIPTION

Principle of the blank sensor circuit

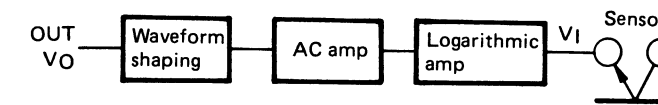


Fig. 1 Block diagram

Blank sensor circuit

The difference between this circuit and conventional circuits is that it adopts the AGC using a logarithmic amp and eliminates the need for sensitivity and bias adjustments.

The outputs from sensor with different sensitivities become identical for the following reason.

When blank-section signals A and B are input from two sensors with different sensitivities to an amp with the logarithmic characteristic shown in Fig. 2, the outputs are A' and B' respectively.

On this occasion, in which the output level of A is smaller than that of B, A output is amplified with high gain while B output is amplified with a gain lower than A's.

As the result, $A' = B'$ and the same output level can always be obtained. However, as A' and B' contain different DC components, the DC components are cut by an AC amp and amplification is performed until a level where is easy to shape the waveform.

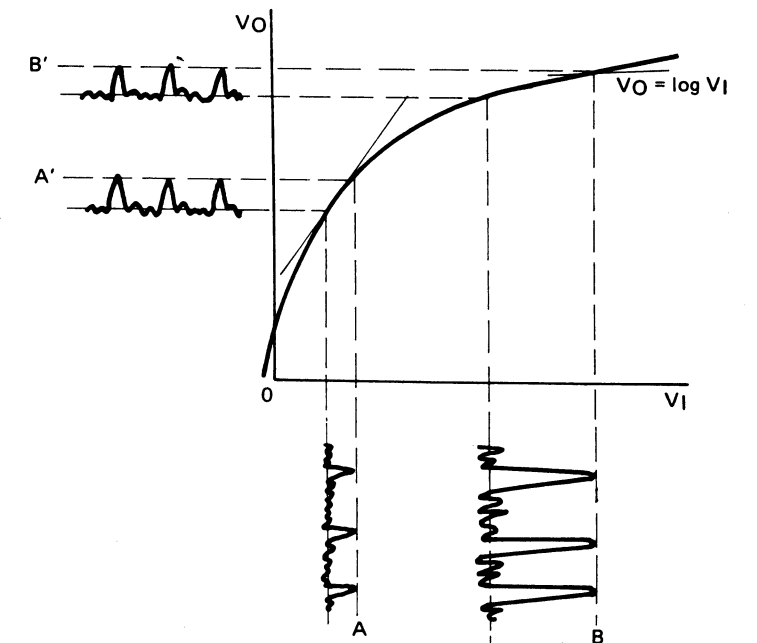
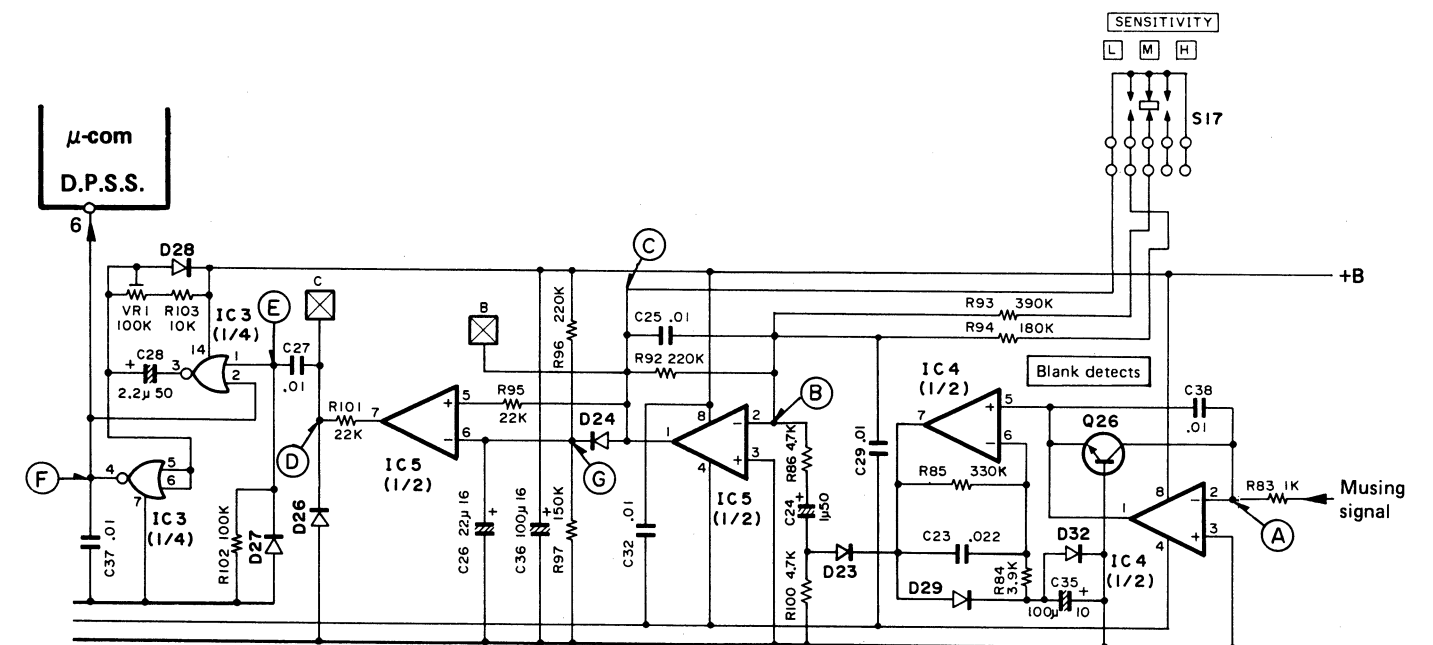


Fig. 2 Input/output characteristics of logarithmic amplifier

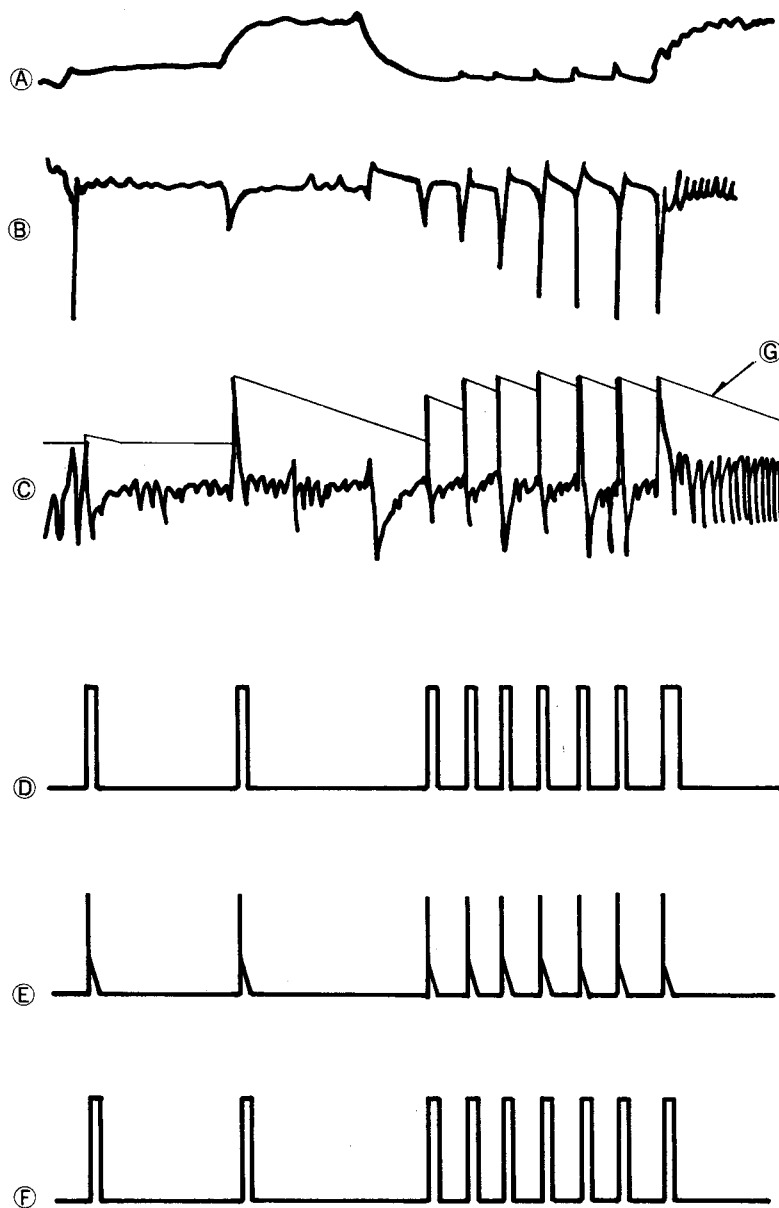


Note : Waveforms at A to G are shown on page 11.

Fig. 3 Blank sensor circuit

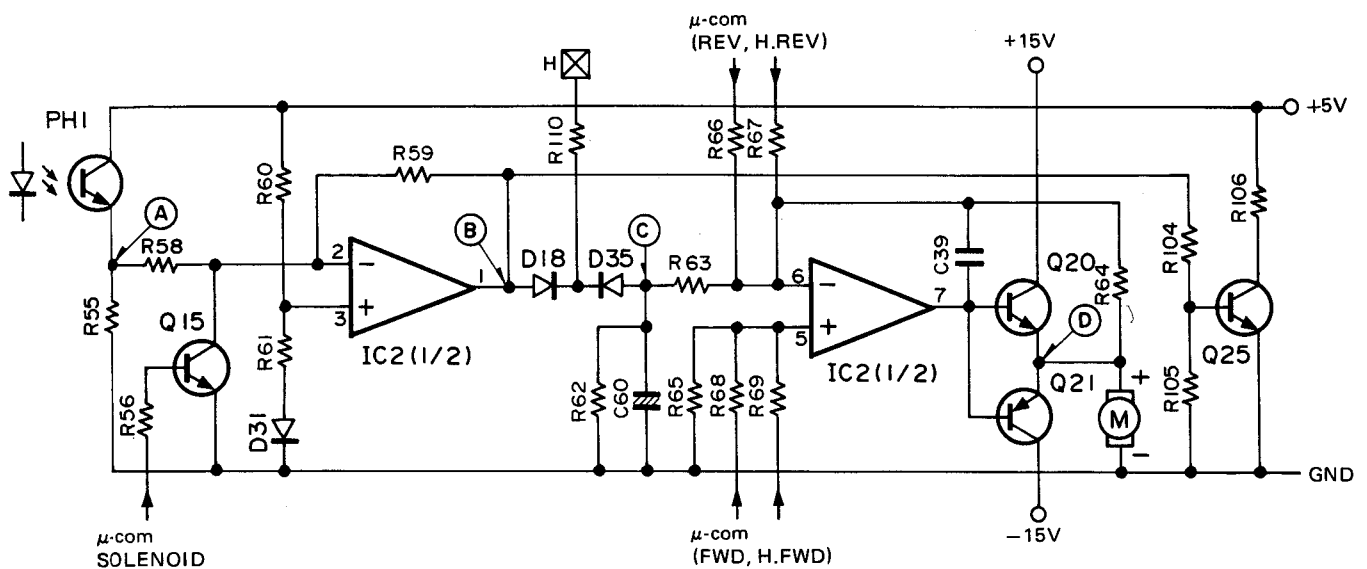
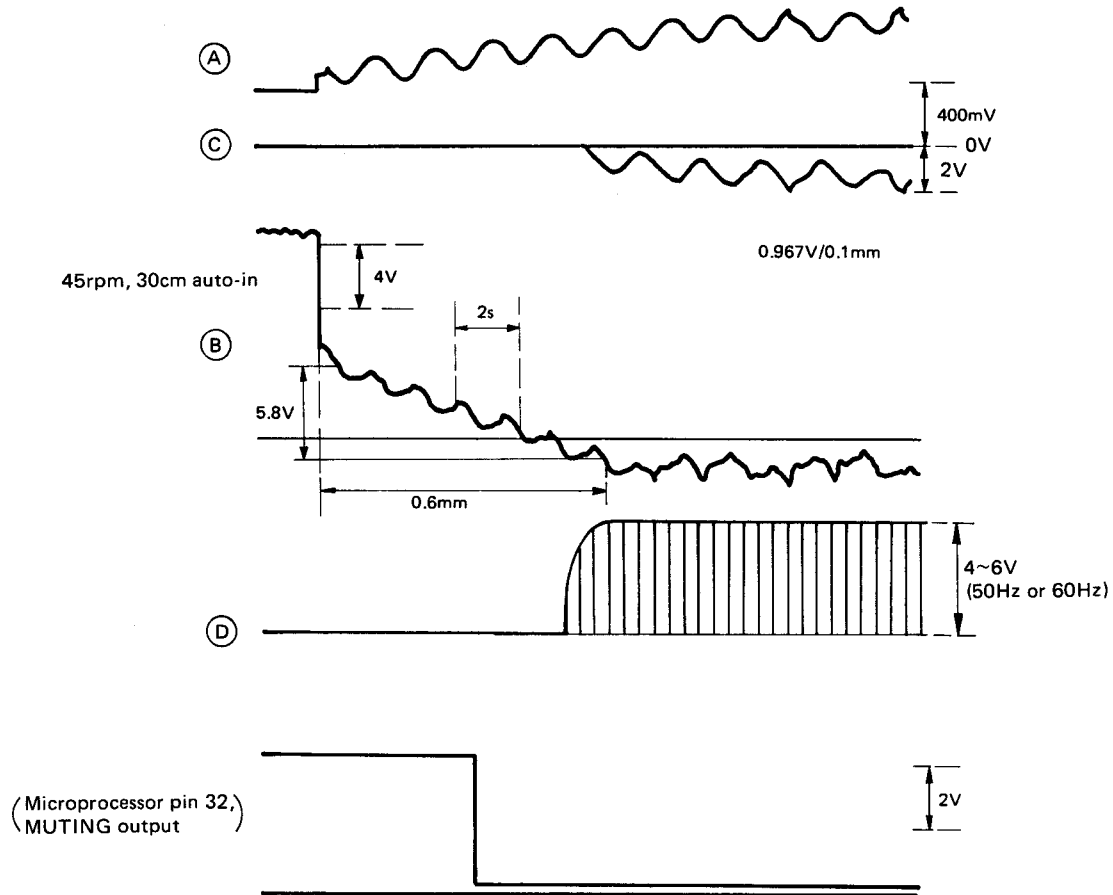
CIRCUIT DESCRIPTION

Waveforms at different sections of the blank sensor circuit



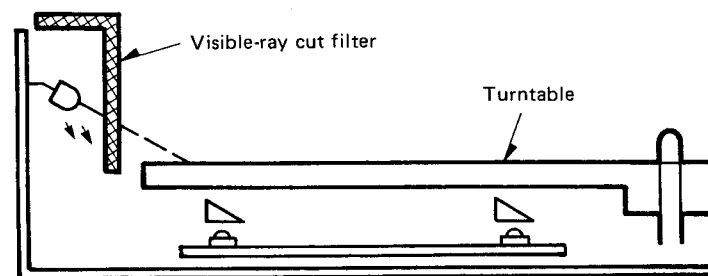
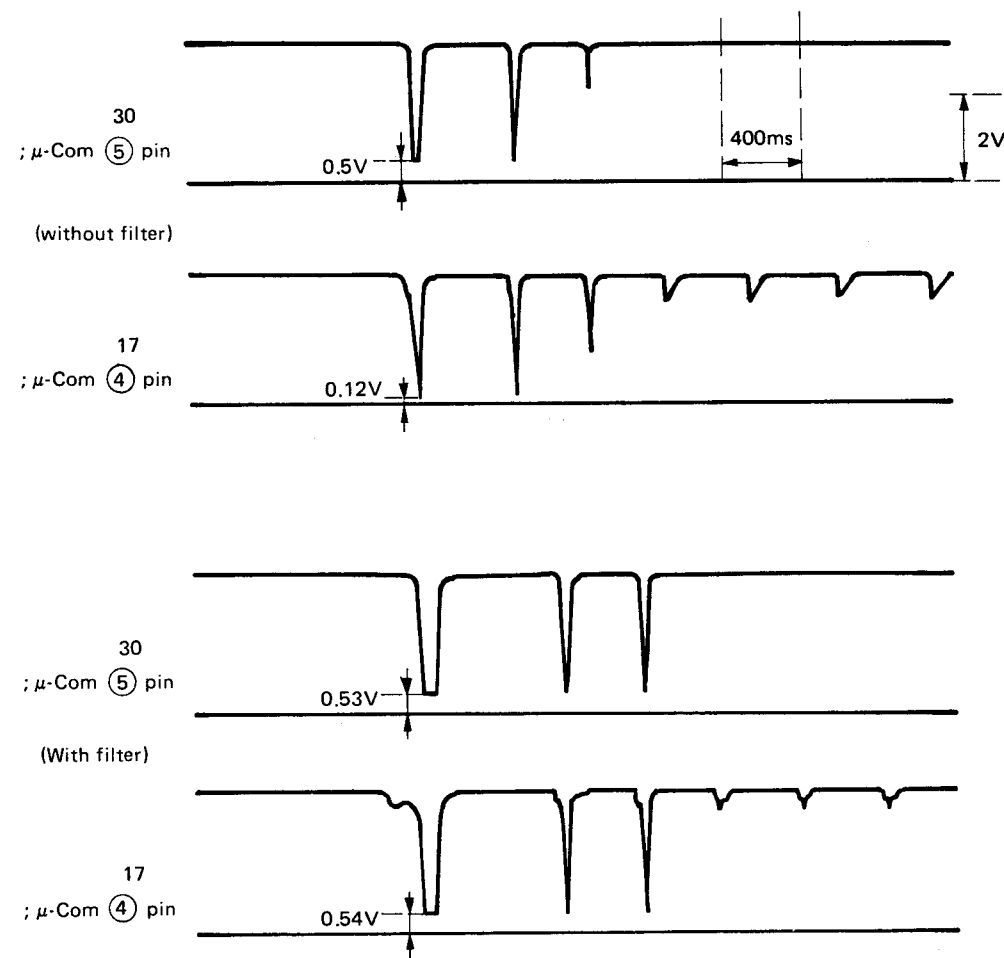
CIRCUIT DESCRIPTION

Waveforms at arm drive circuit and muting circuit



CIRCUIT DESCRIPTION

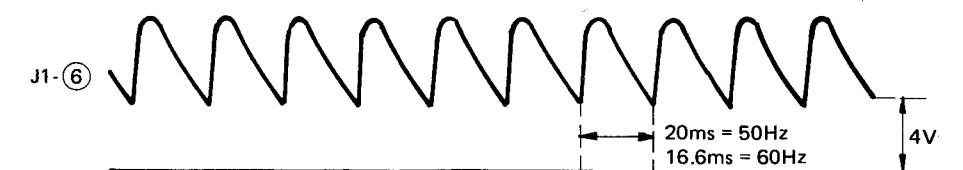
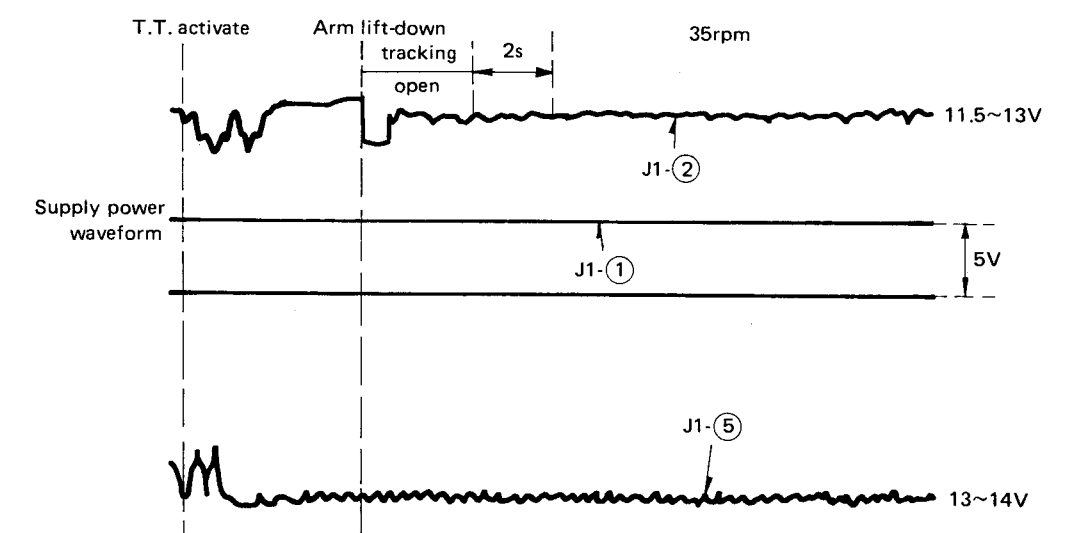
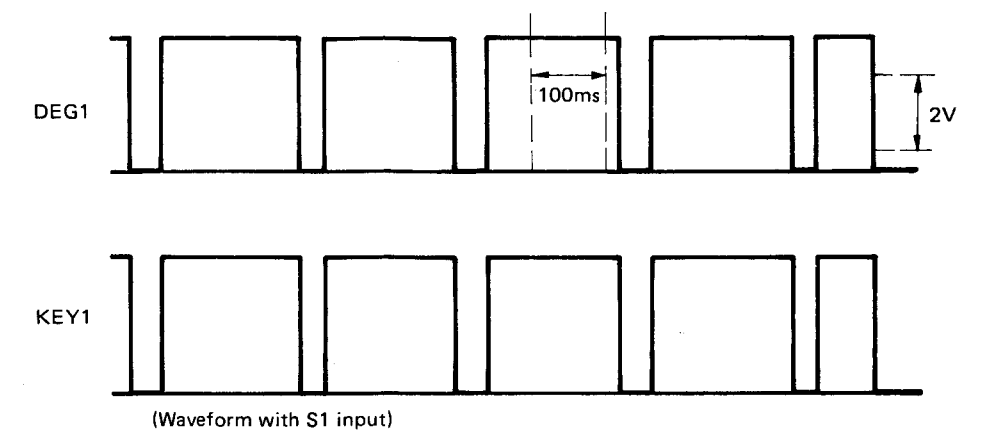
Size detection (Microprocessor input waveform) : The condition at the turntable cabinet is removed



- 30cm $0.53 - 0.5 = 0.03$ (V) $0.03 / 0.53 \times 100 = 5.7\%$
- 17cm $0.54 - 0.12 = 0.42$ $0.42 / 0.59 \times 100 = 77.8\%$

CIRCUIT DESCRIPTION

Waveforms at different points of KD-74F

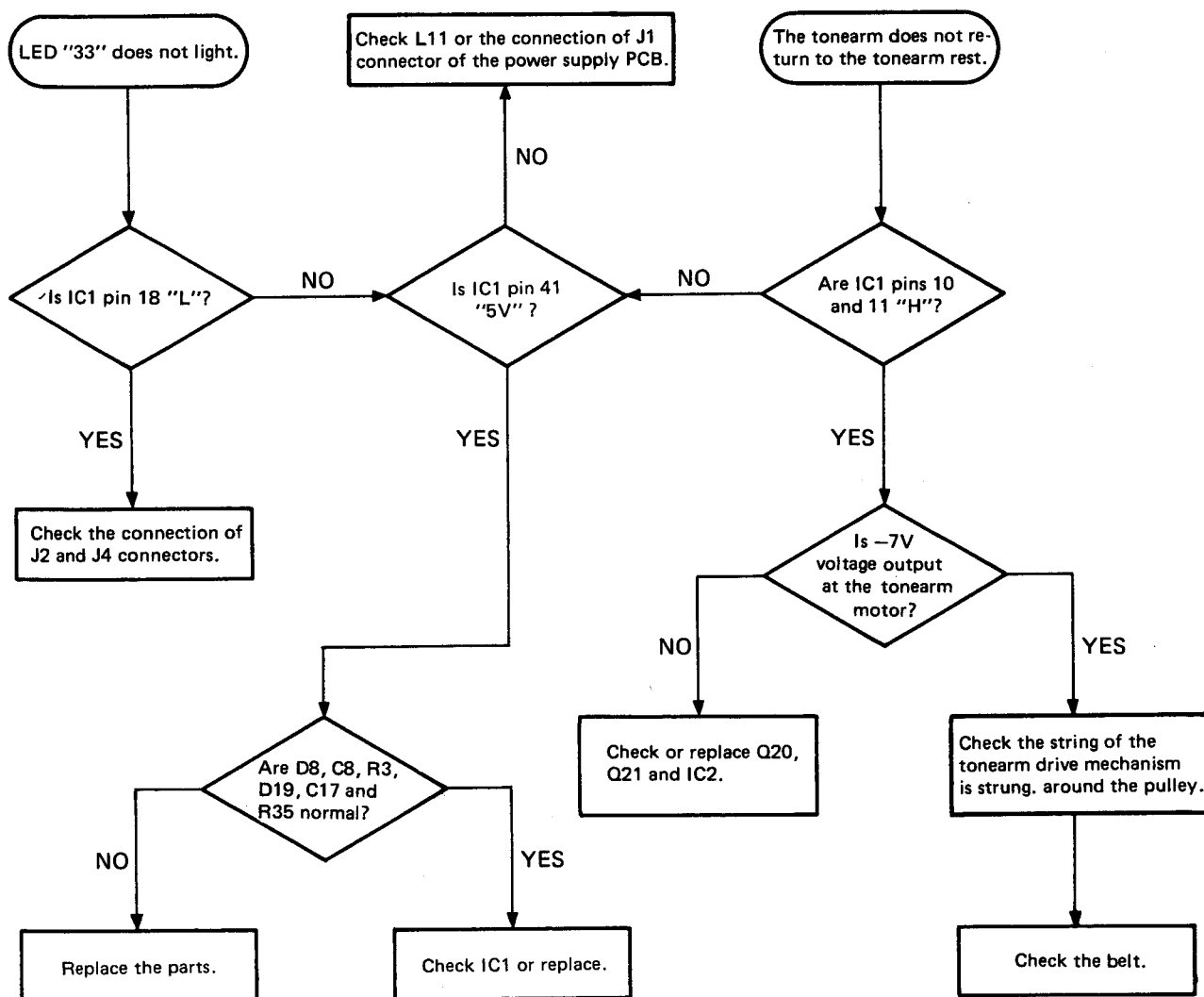


CIRCUIT DESCRIPTION

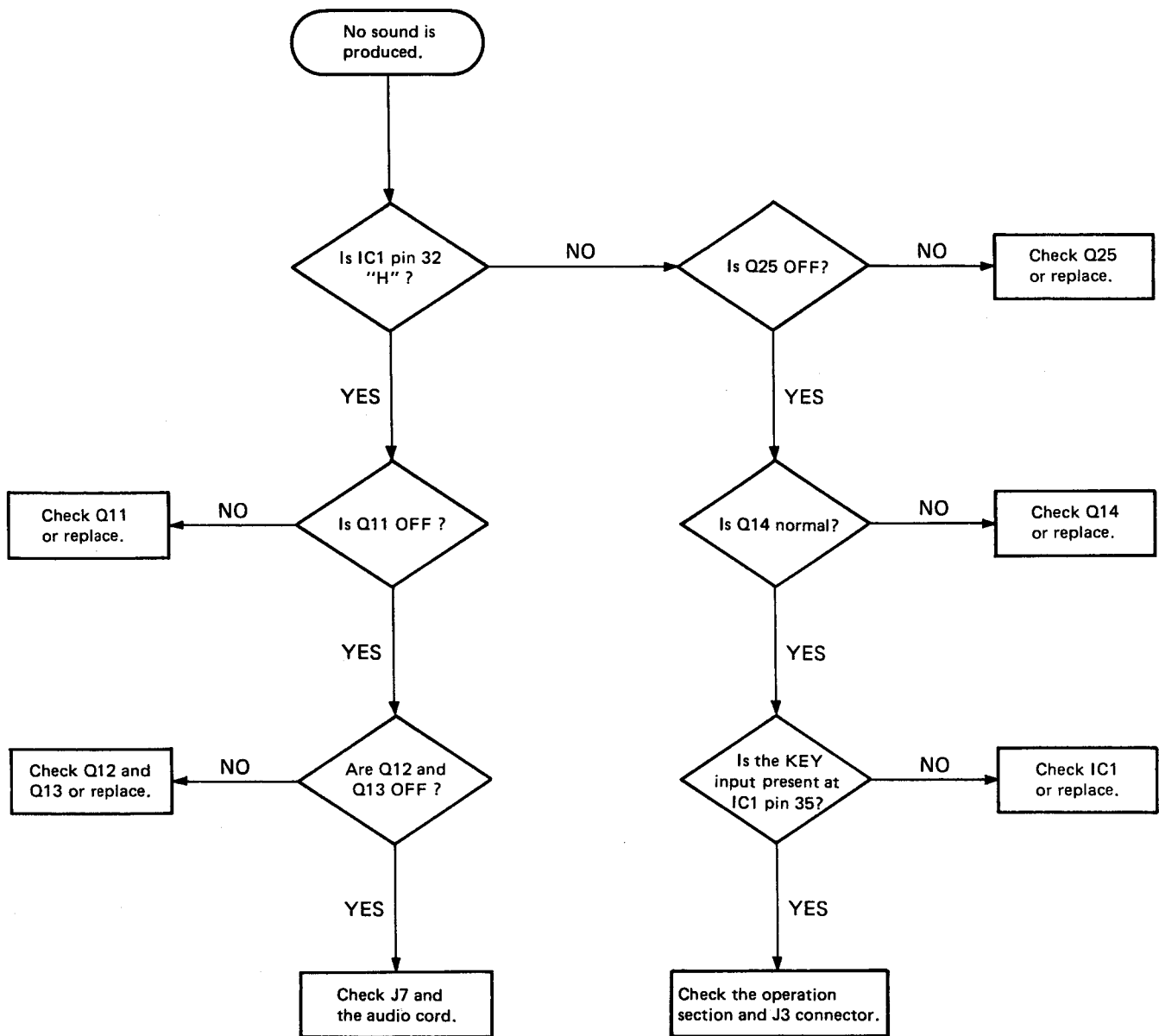
Operation		PLAY/CUT KEY	MANUAL KEY		CUE KEY	SPEED KEY	REPEAT KEY	1-7 RANDOM KEYS	CLEAR/SKIP KEY	MEMORY READ KEY	DUBBING KEY		
Current mode			FORWARD	REVERSE									
Arm rest stand-by		○ Random start, when RANDOM key has been requested. Full auto in, in other cases.	○ Tonearm leaves the arm rest and moves towards the record center. (The program is cancelled.)			○ 33-1/3rpm is set. After tonearm start, turntable rotation speed is determined by size detection as follows : 30cm → 33-1/3rpm 25cm → 45rpm 17cm → 45rpm ○ When the key is pressed after size detection, the speed alternates between 33 → 45 and 45 → 33.	○ First press sets repeat ON. (LED lights.) Second press sets repeat OFF. (LED goes off.)	○ LED of the pressed switch lights. It goes off next time the key is pressed, and the order of play can be requested.	○ All tunes requested using RANDOM keys are cancelled. (LED goes off.)	○ The order of the tunes requested using the RANDOM keys is indicated by flashing of LEDs.	○ First press sets Dubbing to standby. (LED flashes.) Second press sets Dubbing off.		
During auto-in or during tonearm movement (Without auto-return)		○ Tonearm returns to the arm rest, all operations are stopped and the unit enters the same condition as when power is switched ON.	○ Moves towards the center while the key is depressed and, when it is released, enters the cue up state. (The program is cancelled.) The tonearm does not move to positions inside the return position.	○ Moves towards the outer circumference while the key is depressed and, when it is released, enters the cue up state. (The program is cancelled.)			○ Pressing a MANUAL key engages manual operation. The repeat operation is cancelled and will not be accepted until the tonearm returns to the rest.	○ Pressing a MANUAL key engages manual operation and the random selection operation is cancelled.					
Tonearm lift-up by CUE key					○ When the key is pressed, stylus drops and play starts.					○ The order of requested tunes is indicated by flashing of LEDs.			
During play	Manual	○ Tonearm stylus is lifted up, returned to the arm rest, all operations are stopped and the unit enters the same condition as when power is switched ON.	○ Stylus lifts up and moves towards center. When the key is released, enters the cue up state. (The program is cancelled.)	○ Stylus lifts up and moves towards outer circumference. When the key is released, enters the cue up state. (The program is cancelled.)	○ Stylus is lifted up and, while maintaining other functions. (such as random and repeat), enters the cue up state.						○ LED flashing changes to lighting in synchronization with the drop of stylus. REC in synchronization with muting. ○ Auto REC mute is engaged in synchronization with stylus lifted up, then enters REC PAUSE. ○ When the DUBBING key is pressed during play, dubbing state starts without passing through dubbing standby state.		
	Auto					○ Play continues till the last tune, then play starts again from the first tune or random first tune. (16 repeat operations.)							
	Program search						○ When the switch of the tune with LED lit is pressed, the tune is immediately played. ○ When the switch with LED flashing is pressed, play starts from the beginning of the tune.	○ The tune to be played next is played.	○ The order of requested tunes is indicated by flashing of LEDs.				
Auto return		○ No key operation accepted during auto return.											
Remarks		○ When no record is loaded, tonearm starts return operation 2 seconds after the key has been pressed. ○ Turntable revolution speed is switched in synchronization with the size detection. (See item concerning speed.) ○ With cut operation, repeat is cancelled.	○ Movement to position inside the return position is not possible. ○ When tonearm is on the return position, return operation starts by operating the Return key. ○ 2 speeds provided : speeds up when the key has been pressed for more than 2 seconds. ○ Size detection is also performed in manual mode for determining the turntable speed.	○ After moving to the arm rest, all operations are stopped and the unit enters the same condition as when power is switched ON.	○ The cue-acceptable range is determined according to the 30cm lead in position and size detection. 17cm or 30cm lead out position.	○ When power is switched ON or when tonearm returns to the rest, the speed is initialized and becomes 33-1/3rpm. ○ The revolution speed is determined in synchronization with the size detection. 30cm → 33-1/3rpm 17/25cm → 45rpm ○ When the speed has been set using the SPEED key, it is given priority over speed or size detection value.	○ Repeat is cancelled in manual operation mode. ○ Repeat is determined when the tonearm is lifted up after having played the last tune. ○ The number of repeat operations is 16 times even when the repeat operation has been engaged using RANDOM or SKIP keys.	○ LED of the selected tune lights. ○ LED of the tune being played flashes. ○ By pressing the key of the tune to be played, the tonearm immediately moves to the tune and play starts. ○ LED goes off after the tune has been played. When the tonearm is lifted up during play, the flashing ○ LED stops flashing and lights.	○ The CLEAR key is ineffective when there is no Random display. ○ When the last tune of repeat operation is skipped, all the requested LEDs light and play starts from the tune requested first.	○ When a RANDOM key or CLEAR/SKIP key is pressed during memory read, the memory read operation is stopped. ○ When the START/STOP key is pressed during memory read, the memory read is cancelled and not accepted as long as the tonearm is detecting the blanks between tunes.	○ The DUBBING key is a pushbutton switch which alternates ON/OFF by each press.		
Remarks not related to key operation		○ When tonearm is not on the rest at the moment power is switched on, the arm starts return operation and no key operation is accepted at this time. ○ When tonearm is separated from the rest by external force, the arm automatically returns to the rest. No key operation is accepted at this time. ○ When two keys are pressed simultaneously, only the first key pressed is accepted. (except for the FORWARD and REVERSE manual keys which are accepted even when it is the second key pressed.) ○ In auto in or manual lead in mode, the unit enters the same condition as when power is switched on if tonearm has not moved from the rest for 2 seconds.				○ When three keys are pressed together or in continuity, separate functions are generated according to the following combinations. 1. Combinations resulting in FORWARD operation : 1) 1, 3, DUBBING 2) 2, 4, DUBBING 3) 4, CLEAR, START/STOP 4) MEMORY READ, SPEED, DUBBING 2. Combinations resulting in REVERSE operation : 1) 1, 5, DUBBING 2) 2, 6, DUBBING 3) 5, 7, START/STOP 4) 6, CLEAR, START/STOP 5) MEMORY READ, REPEAT, DUBBING 6) REPEAT, CUE, START/STOP 3. Combinations resulting in CUEING operation : 1) 3, 7, START/STOP 2) 4, 6, FORWARD 3) 4, 6, REVERSE 4) SPEED, REPEAT, FORWARD 5) SPEED, REPEAT, REVERSE						Note : Operations differ according to combinations.	

TROUBLE SHOOTING

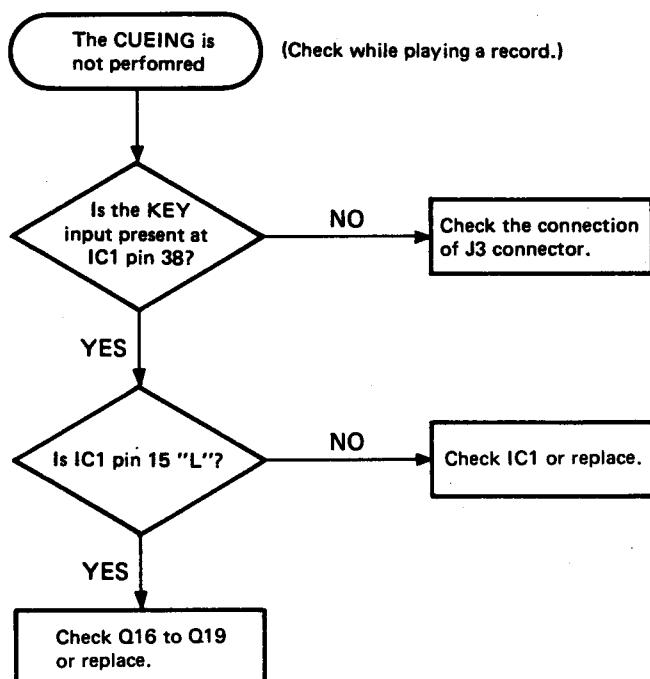
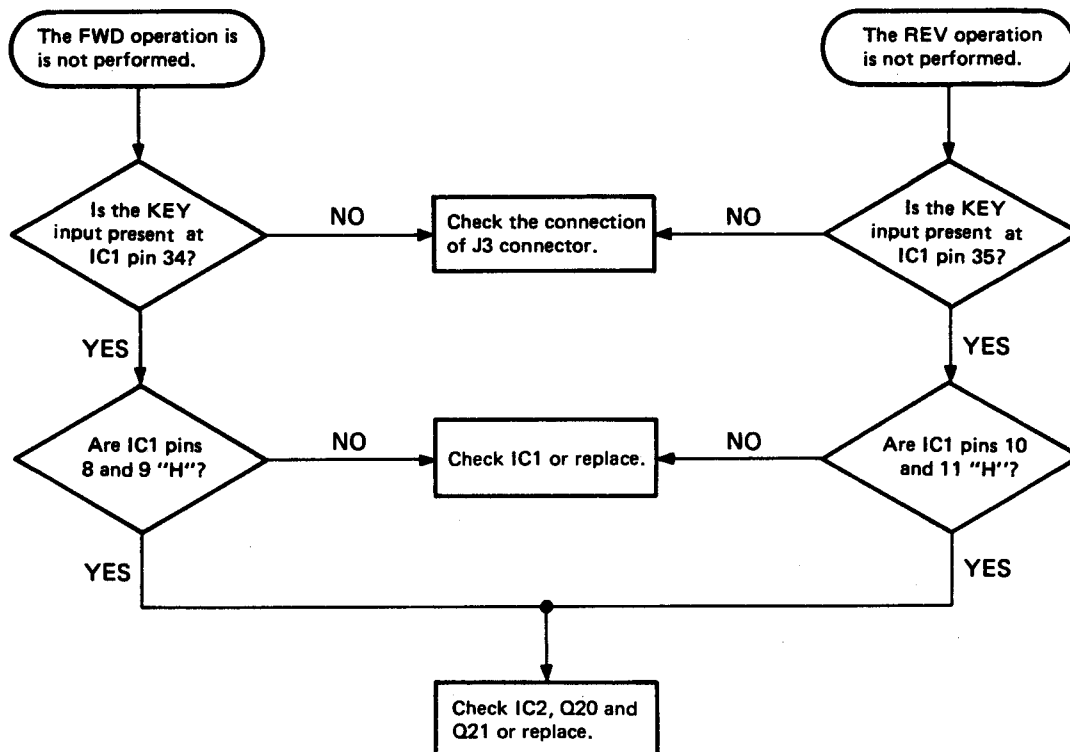
When the POWER switch is switched ON :



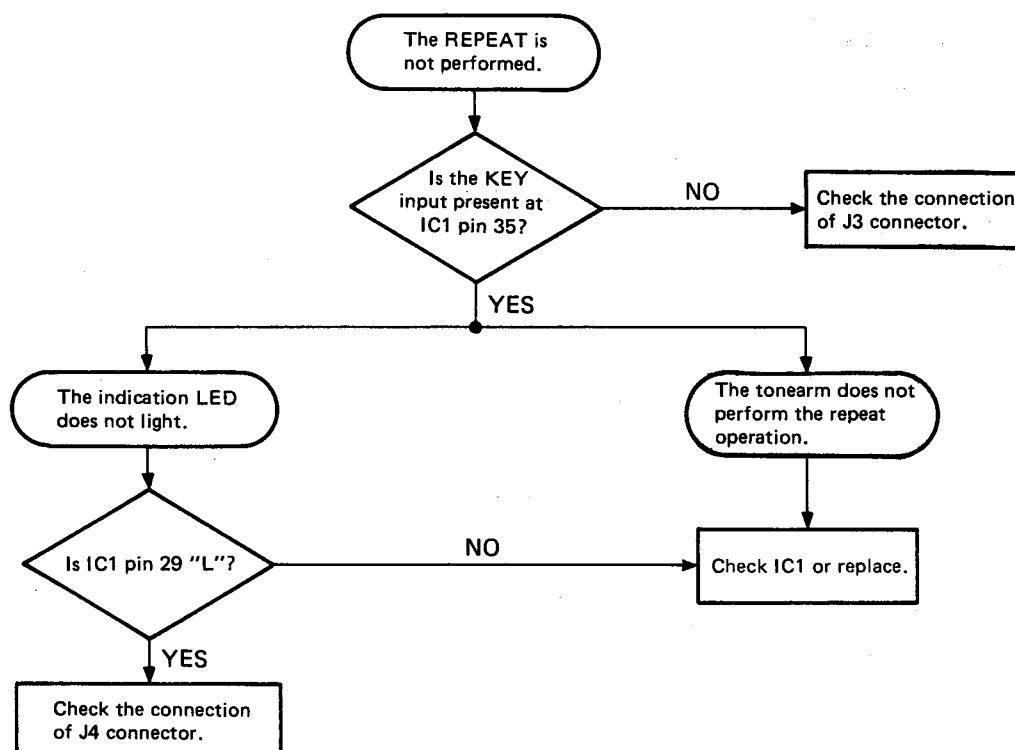
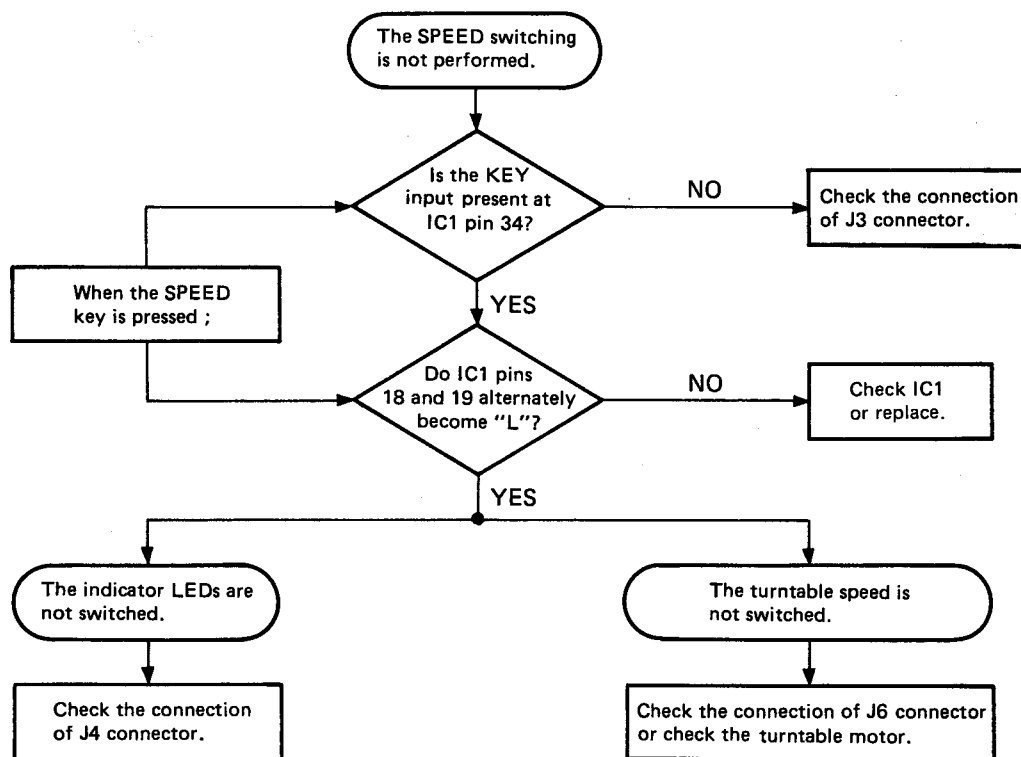
TROUBLE SHOOTING



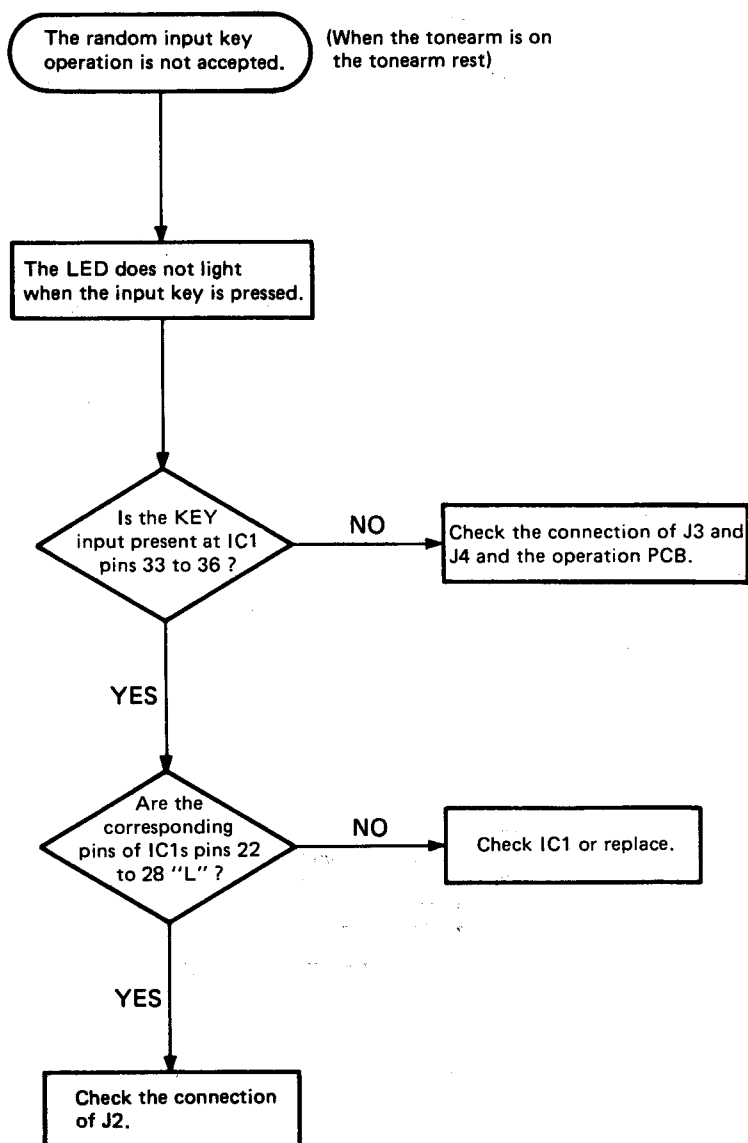
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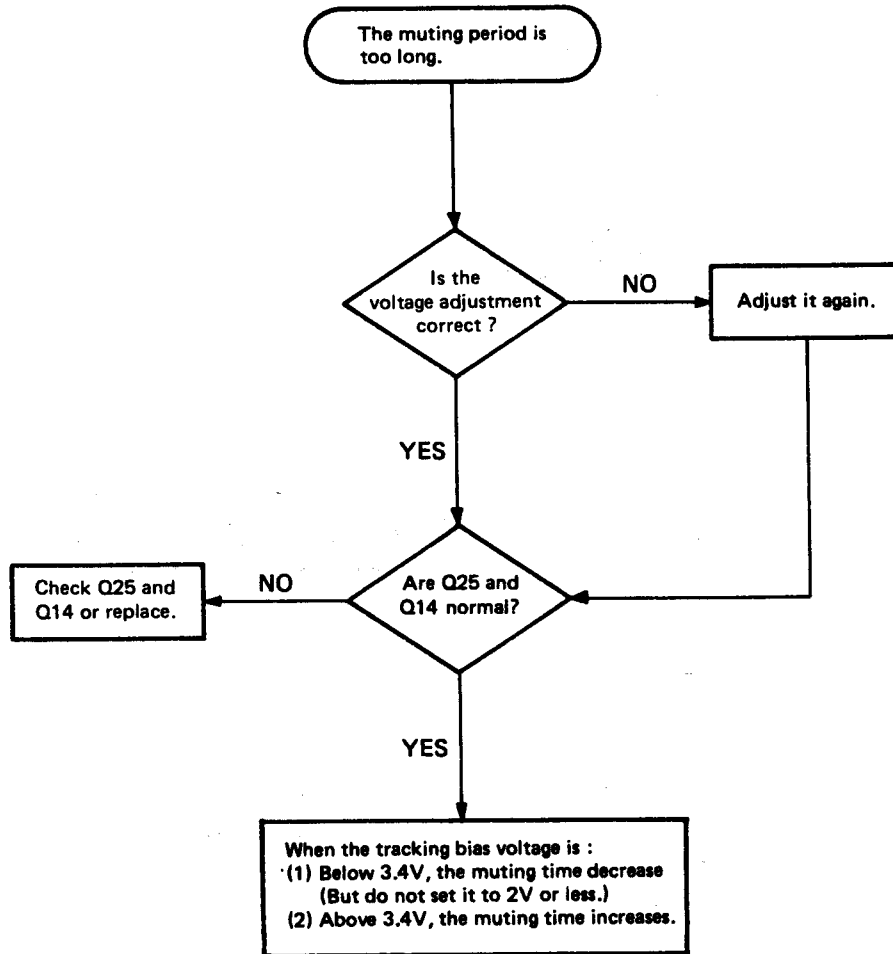
TROUBLE SHOOTING



TROUBLE SHOOTING

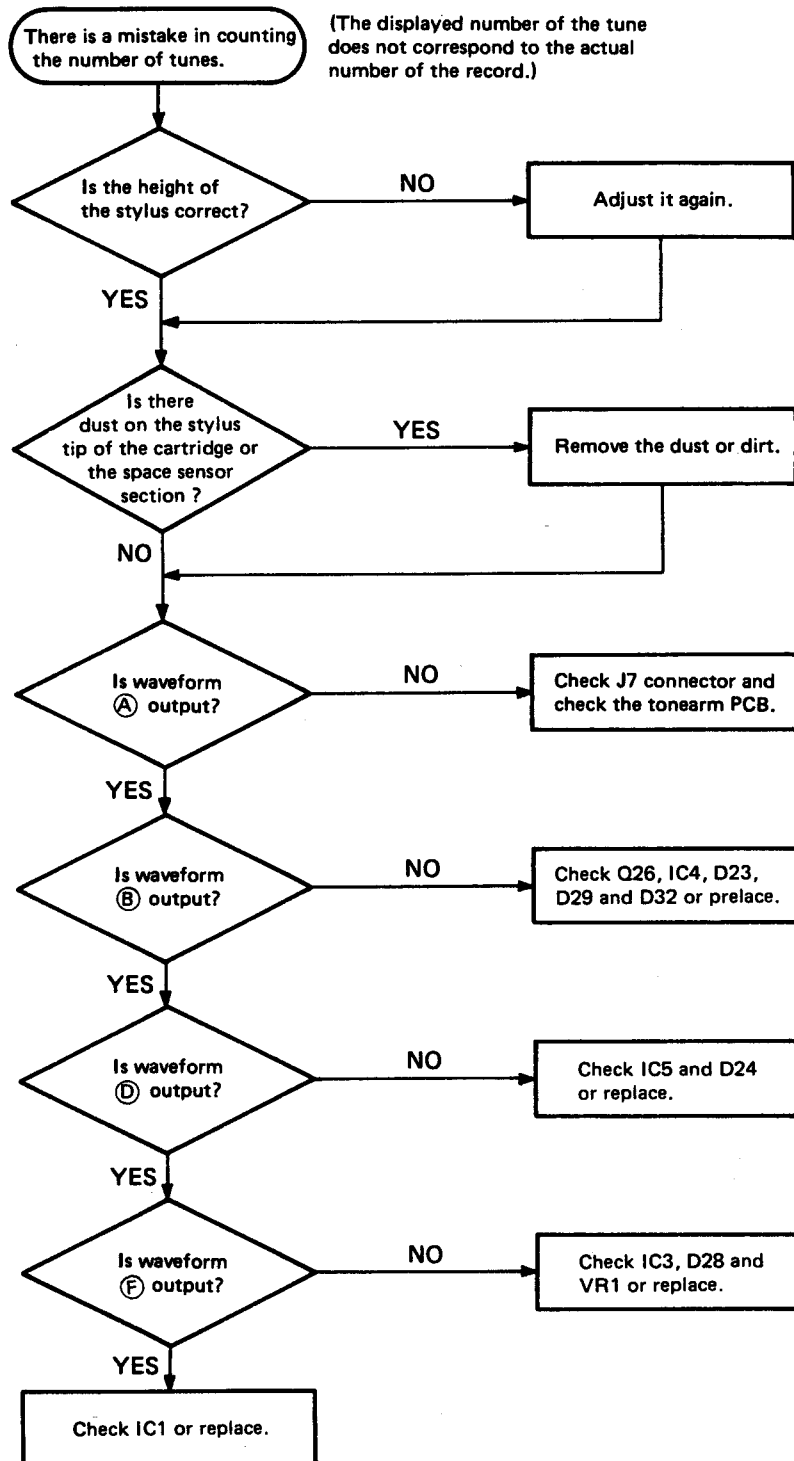


TROUBLE SHOOTING



TROUBLE SHOOTING

In the random operation : (Use a record containing 2 to 7 tunes and whose space widths between tunes is 0.4mm or less.)



TROUBLE SHOOTING

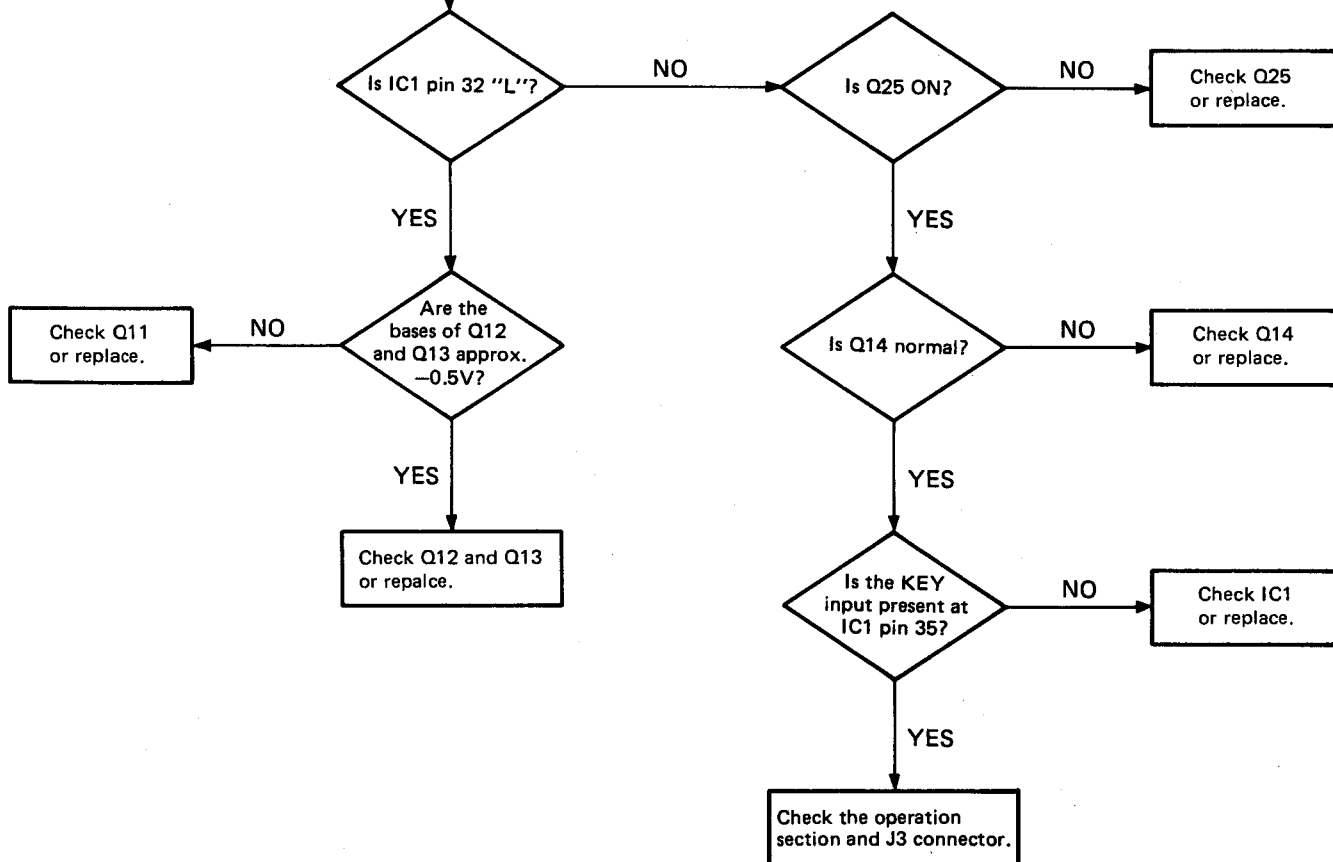
In the random operation :

The position of sound reproduction is abnormal.

The tonearm lowers towards the external circumference when VR1 is rotated clockwise.

- (1) When the beginning of the tune is cut, rotate it clockwise.
(When muting time is normal.)
- (2) When the end of the previous tune is heard, rotate it counterclockwise so that the stylus lowers at the center of the space between tunes.

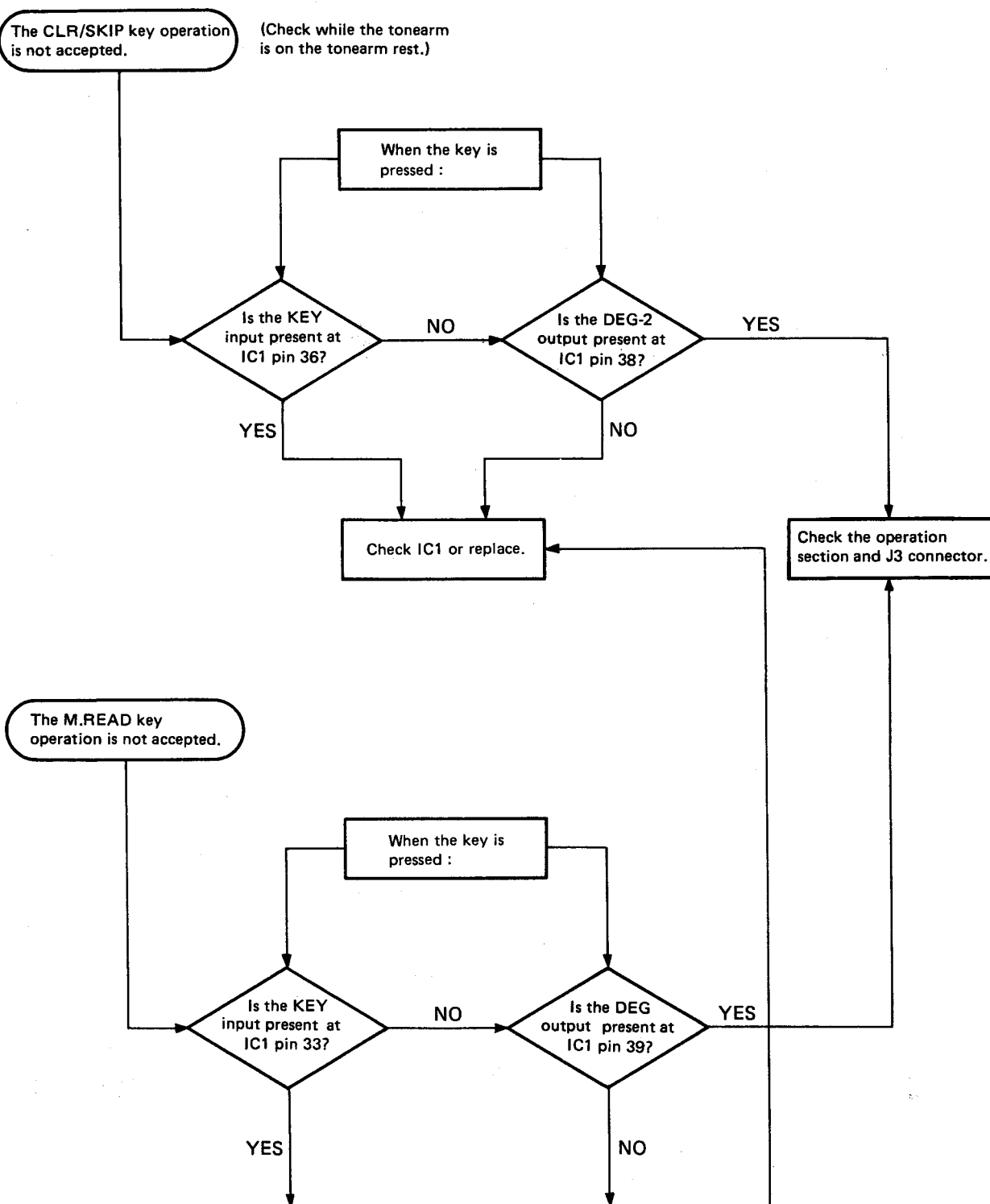
The muting is not performed. (Check while the tonearm is on the tonearm rest.)



TROUBLE SHOOTING

The CLR/SKIP key operation is not accepted.

(Check while the tonearm is on the tonearm rest.)



OPERATION DESCRIPTION

- Check that the packing carton contains all the component parts shown in the figure below before you begin to assemble the turntable.
- The **EP adaptor** is packed together with the Instruction Manual and the **auto size selector malfunction prevention sheet** is packed together with the turntable platter.
- Keep the packing materials in case you have to repack in future (for moving, servicing, etc.).
- See page 25 for assembly procedures.
- Before operation, be sure to remove the tonearm retaining screws in accordance with the instruction given below.

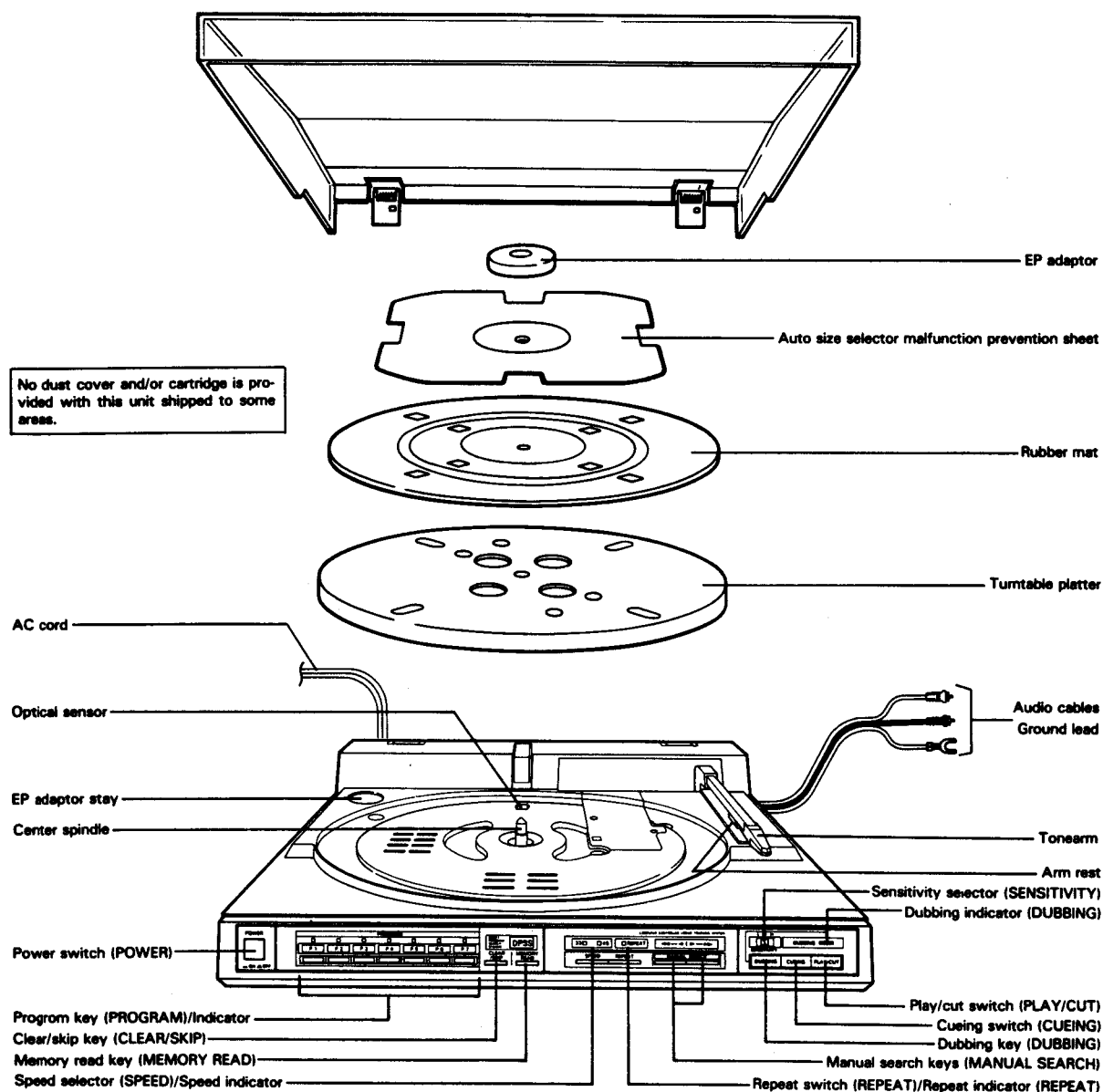


Fig. 1

OPERATION DESCRIPTION

1. Placing turntable platter and rubber mat

Carefully place the platter on the center spindle. Place the rubber mat on the platter.

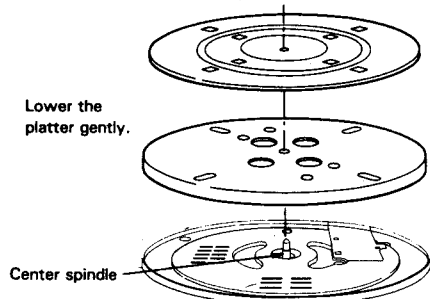


Fig. 2

2. Connections

Turn off the power to your amplifier or receiver. Connect the audio cables, ground wire, then the AC cord.

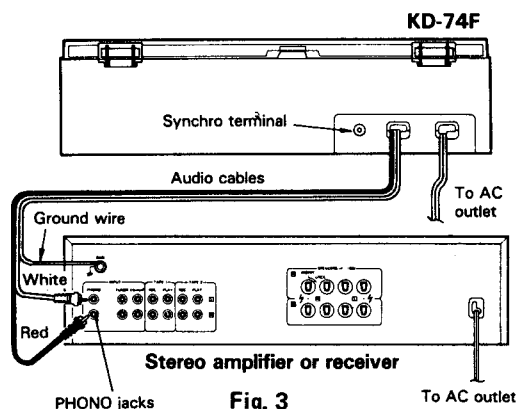


Fig. 3

Note:

As a microcomputer is used in this unit, beat noise may be generated when receiving broadcasting with the tuner. In such cases, turn off the power switch of this unit or adjust the tuner antenna. Incorrect ground lead connection may sometimes make impossible to activate the muting feature and synchro operation.

3. Connecting the synchro terminal

The synchro terminal is the control terminal for synchro recording when KD-74F is connected to a unit which is equipped with a synchro terminal. Connect this terminal to the synchro terminal of the related unit with the supplied synchro cord. For synchro recording, the audio cord should be connected. (Synchro recording is not possible when only the synchro cord is connected.) For details, refer to the Instruction Manual of the related unit.

Note:

Except when synchro recording, be sure to keep the DUBBING key set to OFF and not to connect the synchro cord.

Before playing records

- When a transparent or colored record is played in automatic mode, the auto size selector sometimes malfunctions. To play these records, place the auto size selector malfunction prevention sheet supplied on the turntable platter. To play an LP of this type, place the sheet so that all the turntable platter hole are covered with the sheet. To play an EP, place the sheet so that the turntable platter hole can be seen through the notches.
- When a 25 cm record is played, the auto size selector works to set 45 rpm for 17 cm. So correct it to 30 cm by using the malfunction prevention sheet, and play the record by manual operation.
- When the power switch (POWER) is set to ON, the indicator on the tip of the cartridge lights.
- The sensor SENSITIVITY selector is provided on the front panel of the unit. In program playback or skip selection mode, the stylus lowering position varies depending on the record surface condition and the amount of light in the room. To compensate for these operations, use the sensor SENSITIVITY selector.
- M:** For normal operation.
- L:** When the tonearm is lowered in the preceding tune.
- H:** When the tonearm is lowered in the next tune.



Fig. 4

- If there is no record on the turntable platter, the tonearm moves to the lead out position, and returns to the armrest.

Automatic playback

Place a record on the turntable platter, and simply press the play/cut switch (PLAY/CUT). Then, the record will be played from the first tune on.

- Press the power switch (POWER).
- Open the lid, and place a record on the turntable platter.
- Close the lid.
- Press the play/cut switch (PLAY/CUT). The turntable platter starts to rotate and at the same time, the record size and playback speed are automatically sensed and set. (Auto size selector operation) Then, the tonearm shifts to the lead-in groove. The stylus lowers onto the record, and playback begins. (Auto-in operation)

Auto size selector:

LP record	Size: 30 cm
	Speed: 33-1/3 rpm
EP record	Size: 17 cm
	Speed: 45 rpm

To play an LP record at a speed of 45 rpm or an EP record at a speed of 33-1/3 rpm, press the speed selector (SPEED) to obtain the desired speed.

When an EP record is played back at a speed of 33-1/3 rpm, the speed of 45 rpm is automatically set by the auto size selector after playback starts

OPERATION DESCRIPTION

even if the speed of 33-1/3 rpm is indicated first. After starting playback, press the speed selector switch to set 33-1/3 rpm.

5. When playback ends, the tonearm automatically returns to the rest position and the turntable platter stops rotating. (Auto return operation)
6. When the play/cut switch (PLAY/CUT) is pressed during playback, playback stops and the tonearm automatically returns to the rest position and the operation stops. (Auto cut operation)

Manual Playback

1. Set the power switch (POWER) to ON.
2. Place a record on the turntable platter. The speed is automatically set to 33 rpm.
Select the correct speed according to the record to be played.
3. When the manual search (◀) forward key (MANUAL SEARCH) is pressed, the tonearm moves to the left. When the manual search (▶) reverse key (MANUAL SEARCH) is pressed, the tonearm moves to the right. Use the manual search keys (MANUAL SEARCH) to move the tonearm to the required position. (The tonearm moves slowly for the first 2 second, then moves quickly.)
4. Press the cueing switch (CUEING). The tonearm lowers and playback starts. When playback finishes, the tonearm automatically returns to the armrest.

Note:

When the tonearm is moved to the innermost position by keeping the manual search (◀) forward key (MANUAL SEARCH) pressed, the tonearm stops without lowering onto the turntable platter. When the cueing switch (CUEING) is pressed at this time, the tonearm automatically returns to the arm rest.

Program playback

The direct program search system enables you to pick up the tunes you want and play them in the orders you prefer.

1. Set the power switch (POWER) to ON.
2. Place a record on the turntable platter.
3. Press the program keys (PROGRAM) in order of the tunes you want to play back. For example, press program key "P3" first when you want to listen to the third tune first.
4. Press the clear/skip key (CLEAR/SKIP) to erase the programs you have made.
To check the programmed order of tunes, press the memory read key (MEMORY READ). The program indicator flash for a few seconds in the programmed order of tunes.

Note:

Program change is not possible during playback. Up to 7 tunes can be programmed. For a record with less than 7 tunes, the number of tunes included on the record can be programmed. For a record with more than 8 tunes, playback the record in automatic or manual playback mode.

5. Press the play/cut switch (PLAY/CUT). The turntable platter starts rotating and the program play starts.
6. The program indicator of the tune being played

flashes.

7. When program playback finishes, the tonearm automatically returns to the armrest and the turntable platter stops rotating.

To repeat program playback, press the repeat switch (REPEAT) during program playback.

Note:

When the manual search keys (MANUAL SEARCH) or the play/cut switch (PLAY/CUT) are pressed during program playback, program play mode is released and the program indicator goes off.

Skipping to the next tune

When the clear/skip key (CLEAR/SKIP) is pressed during program playback, the next programmed tune is played back. However, when the key is pressed while the last tune is being played, the tonearm returns to the arm rest.

Direct tune selection

To repeat the tune currently being played: Press the corresponding program key during program playback.

To skip tunes: Press the program key of the tune to be played back during program playback. Playback of the tune being currently played back is stopped and the tune of the pressed program key is played back. The indicators of the skipped tunes go out at this time.

Suspending playback

To suspend playback, press the cueing switch (CUEING). The tonearm lifts.

To resume playback, press the cueing switch (CUEING) again.

The tonearm lowers and playback starts from almost the same position where it left off.

Repeat playback

To repeat playback, press the repeat switch (REPEAT). The REPEAT indicator lights and in the automatic playback mode, one side of the record is repeatedly played back. During program playback, all the programmed tunes are repeated.

To release the repeat playback mode, press the repeat switch (REPEAT) again. The REPEAT indicator goes off and in the automatic playback mode, one side of the record is played back to the last tune and the tonearm returns to the rest position and the operation stops.

During program playback, all the programmed tunes are played back and the tonearm returns to the arm rest. Repeat playback is performed 16 times.

Note:

Repeat playback is not possible during manual playback. Do repeat playback during automatic or program playback. If manual operation is performed during automatic or program playback, the repeat playback mode is released. When the play/cut switch (PLAY/CUT) is pressed during repeat playback, playback stops and the tonearm returns to the rest position and the repeat playback mode is released.

Synchro operation

With the KD-74F connected to a unit equipped with a synchro terminal, synchro recording is possible. For detailed operation of synchro recording, refer to the Instruction Manual of the related unit.

OPERATION DESCRIPTION

Motor lubrication

The motor employs permanently-lubricated bearings. It will operate for more than 20,000 hours without attention to lubrication.

Periodic check-up

Because a turntable is a mechanical device it is subject to the effects of wear and misadjustment that occurs due to normal handling. Even if your unit appears to function normally, a periodic check-up at intervals of two years or so is recommended to ensure a long service life and proper operation.

Check with your dealer or authorized service representative.

Stylus replacement

A replacement stylus may be obtained from your dealer.

1. Set the power switch (POWER) to OFF. Pull out the stylus in the direction of the arrow shown in the figure.
2. Replace with a new stylus in the reverse order to step 1 above.

Note:

Be sure to turn off the amplifier power switch before replacing the stylus.

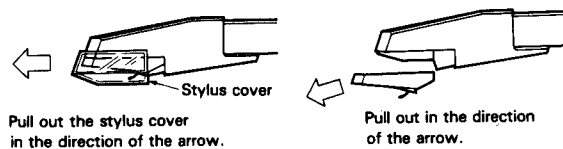


Fig. 5

Notes on installation

Do not place the unit in a place which is exposed to direct sunlight, near a heating appliance, etc.

Do not place a vase containing water, makeup, etc. on the unit. Do not use in a humid place.

Choose a location that is relatively free from vibration or excessive dust.

Safety precautions

Never remove the case. If the internal parts are touched, accidentally, a serious electric shock might occur. Touching the power plug when your hands are wet may result in a serious electric shock.

Never pull, bend or extend the power cord. This could damage the power cord, resulting in a broken cord or short-circuit.

Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, benzine, etc. to clean the cabinet. Use a silicone cloth or a clean dry cloth.

Note on record playback

- The following records sometimes cannot be played back in program playback or skip tune mode. However, this is not a malfunction of the unit. Play back such records in manual mode.
 1. Gaps between tunes are very narrow (A).
 2. Modulated groove pitch is very large (B).
 3. Short tune (C).
 4. Warped or eccentric records.
 5. Colored records.
 6. Stained, dirty or scratched records.
 7. Records whose grooves have different reflections.
 8. Records with sounds recorded on the modulated groove between tunes.
 9. Off-size records or phono sheets.

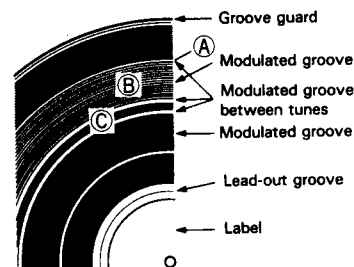


Fig. 6

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	PLAYER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	OFFSET (1)	—	Connect a DC voltmeter between TP G and GND.	Tone arm fully bent to left.	VR501	1.5V	(a)
2	OFFSET (2)	—	Connect a DC voltmeter between TP D and GND.	Connect a jumper wire between TP E and GND.	① CAM	3.4V	(b)
3	AUTO LEAD-IN	Test record (ES-1008)	(B)	PLAY	③ CAM	20~24	(c)
4	STYLUS HEIGHT	Test record (ES-1008)	—	CUEING	④ CAM	4mm	(d)
5	SELECTING MUSIC	Test record (ES-1008)	(B)	SENSITIVITY: M PROGRAM KEY: 2 PLAY/CUT	VR1 (X25-2200)	Playback	

Adjusting turntable speed 1. Adjust the turntable speed to 33 rpm using VR1 on the P.C.B of the motor.

2. Adjust the turntable speed to 45 rpm using VR2.

Note: If the speed of 33 rpm is adjusted first, it will be incorrect.

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE LA LECTURE	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
1	DECLALAGE (1)	—	Connecter un voltmètre CC entre les TP G et GND.	Décaler la cellule à extrême gauche par rapport au bras de lecture.	VR501	1,5V	(a)
2	DECLALAGE (2)	—	Connecter un voltmètre CC entre les TP D et GND.	Connecter un cablage entre les TP E et GND.	① VIS	3,4V	(b)
3	MARCHE	Disque d'essai (ES-1008)	(B)	PLAY	③ VIS	20~24	(c)
4	HAUTEUR DE POINTE	Disque d'essai (ES-1008)	—	CUEING	④ VIS	4mm	(d)
5	SELECTION DU PROGRAMME MUSICAL	Disque d'essai (ES-1008)	(B)	SENSITIVITY: M PROGRAM KEY: 2 PLAY/CUT	VR1 (X25-2200)	Reproduction	

Reglage du nombre de tours du plateau tourne-disque 1. Régler le nombre de tours, 33 tr/mn, à l'aide de VR1 monté sur le substrat du moteur.

2. Régler le nombre de tours, 45 tr/mn, à l'aide de VR2.

Remarque: Si l'ordre de réglage n'est pas respecté, le nombre de tours, 33 tr/mn pourra être déréglé.

ABGLEICH

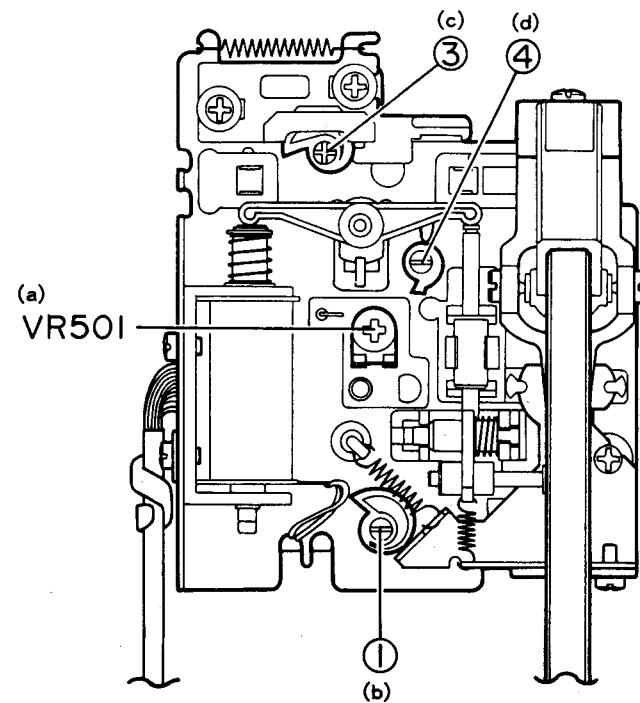
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	SPIELER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
1	VERSCHIEBUNG (1)	—	Einen Gleichspannungsmesser zwischen TP G und GND anschließen.	Der Arm ganz nach links schwenken.	VR501	1,5V	(a)
2	VERSCHIEBUNG (2)	—	Einen Gleichspannungsmesser zwischen TP D und GND anschließen.	Einen Schaltdraht zwischen TP E und GND anschließen.	① NOCKEN	3,4V	(b)
3	AUTO AUFSETZEN	Probe eine Platte (ES-1008)	(B)	PLAY	③ NOCKEN	20~24	(c)
4	HÖHE NADELS	Probe eine Platte (ES-1008)	—	CUEING	④ NOCKEN	4mm	(d)
5	ARMABSENK-POSITION	Probe eine Platte (ES-1008)	(B)	SENSITIVITY: M PROGRAM KEY: 2 PLAY/CUT	VR1 (X25-2200)	Wiedergabe	

Einstellung der Drehzahl des Plattentellers 1. VR1 auf der Motorbasis so einstellen, daß die Drehzahl zu 33 u/min wird.

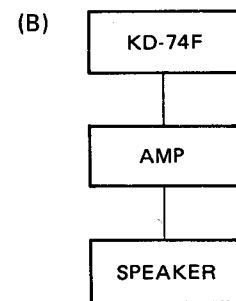
2. VR2 so einstellen, daß die Drehzahl zu 45 U/min wird.

Zur Beachtung: Wenn die Einstellung in umgekehrter Reihenfolge durchgeführt wird, so wird eine Abweichung für 33 U/min verursacht.

ADJUSTMENT/REGLAGE/ABGLEICH



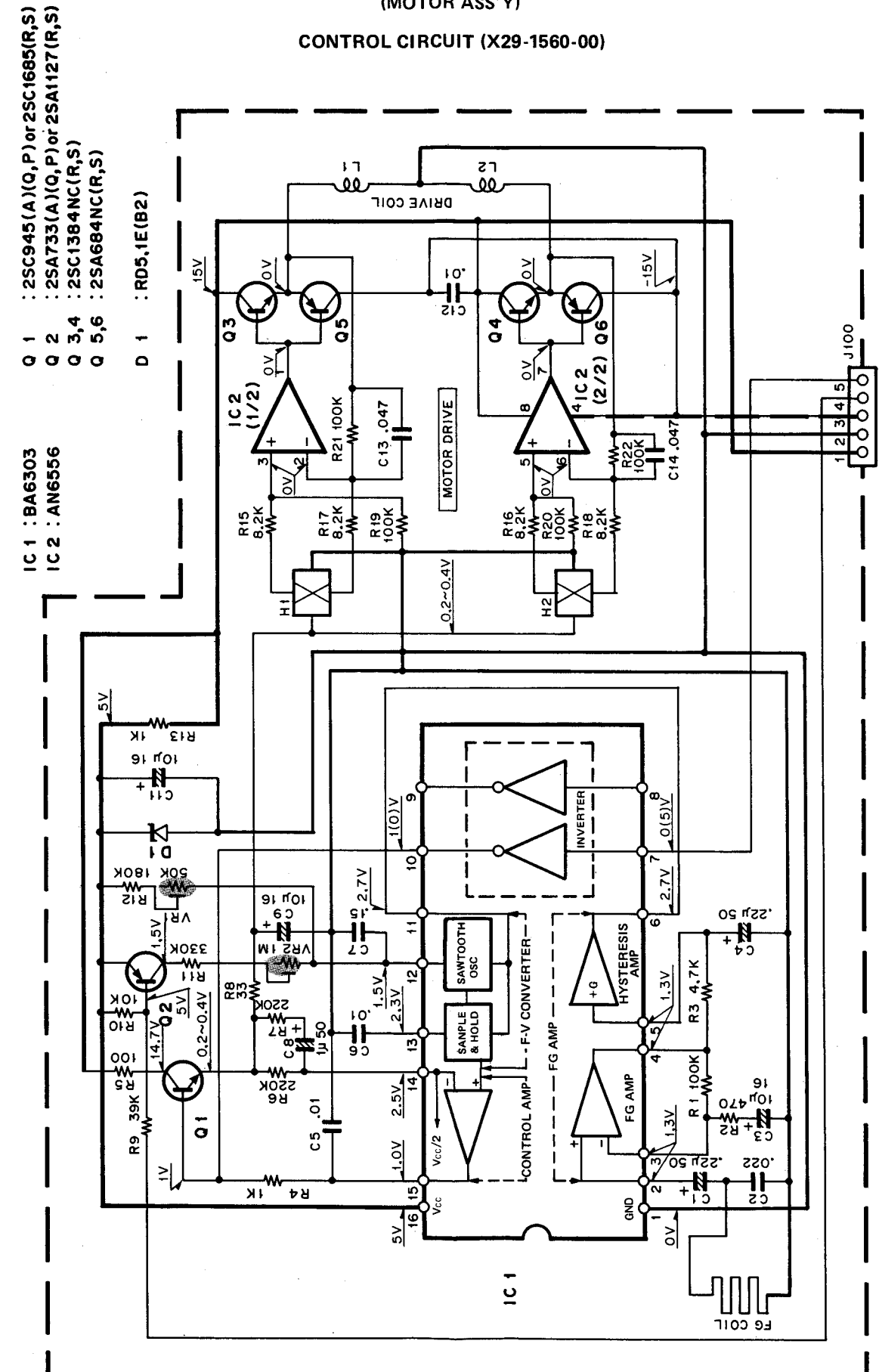
TONEARM ASS'Y



CIRCUIT DIAGRAM

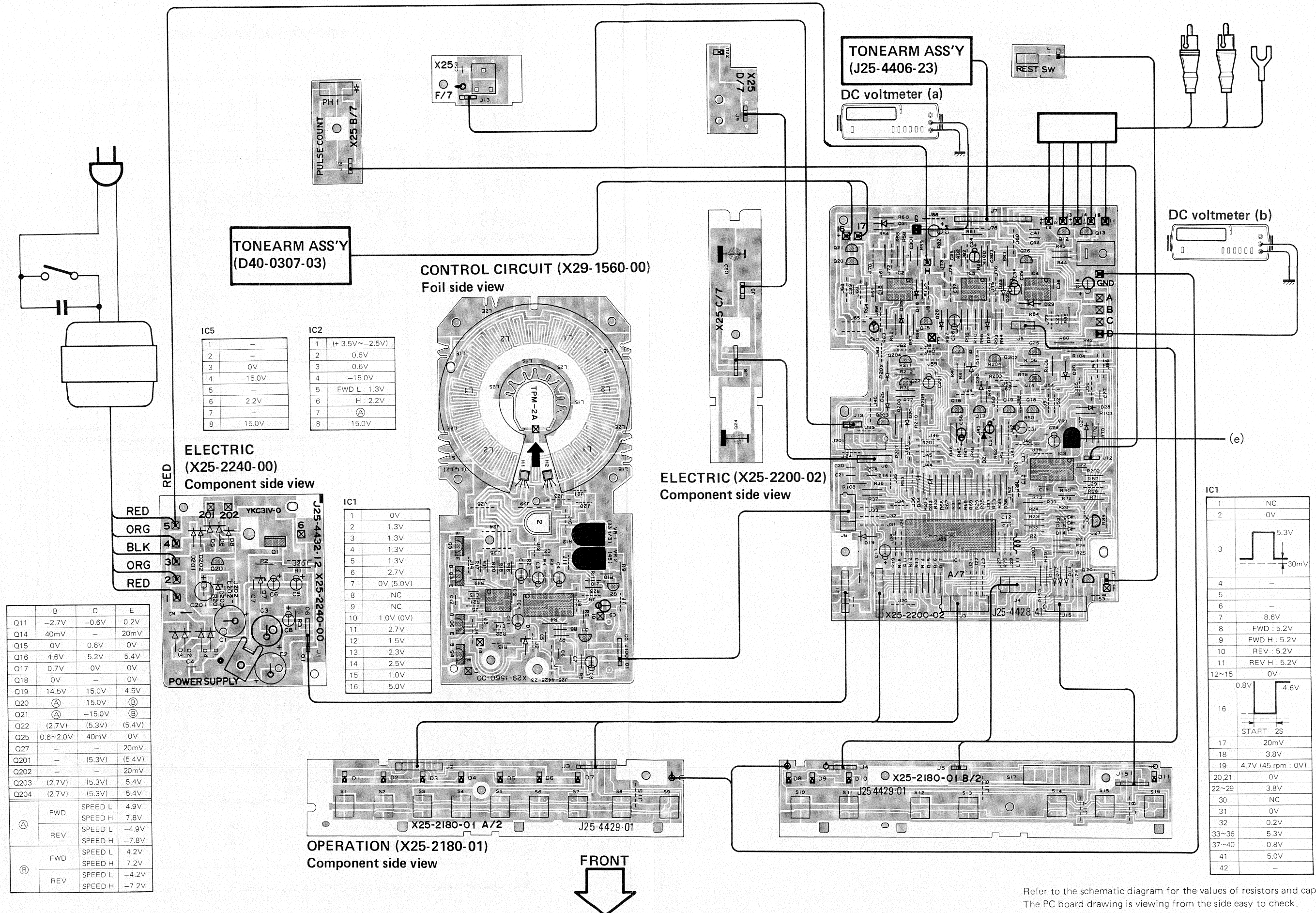
(MOTOR ASS'Y)

CONTROL CIRCUIT (X29-1560-00)



DC voltages are as measured with a high impedance
voltmeter at 33 1/3 r.p.m. mode.

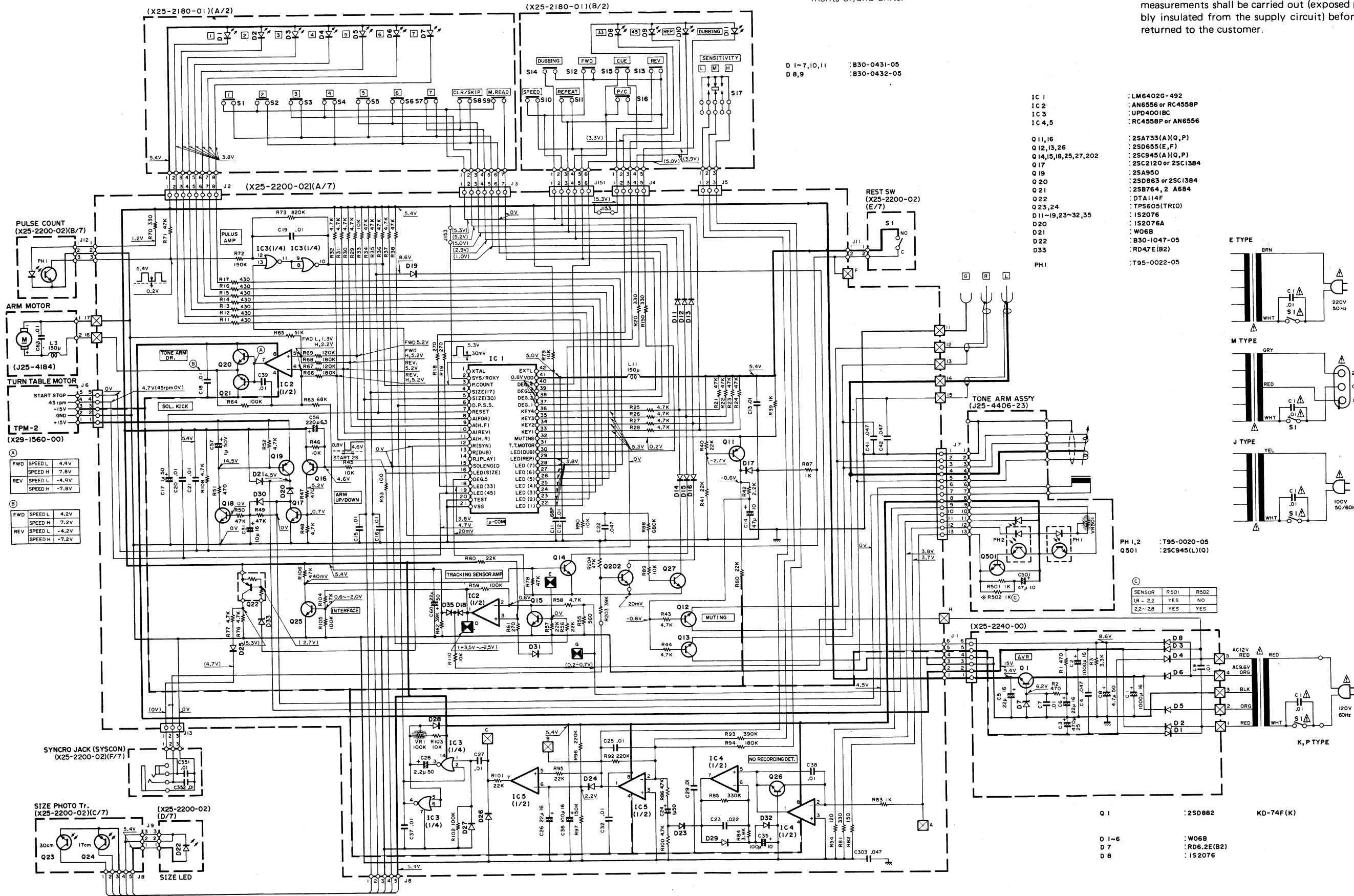
PC BOARD



Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

• DC voltages are as measured with a high impedance voltmeter at 33 1/3 r.p.m. mode. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



- 2SA1127NC
- 2SA684NC
- 2SA733(A)
- 2SA950
- 2SB764
- 2SC1384NC
- 2SC1685
- 2SC2120
- 2SC945
- 2SC945(A)
- 2SD655
- 2SD863

- 2SD882
- DTA114EFF
- 2SA933S
- 2SC1740S

- RC4558P
- HD14001BP
- μPD4001BC
- BA6303
- AN6556
- LM6402G-492

- 2SD882
- W06B
- RD6.2E(B2)
- IS2076

- Q1
- D1-6
- D7
- D8

- Q1
- D1-6
- D7
- D8

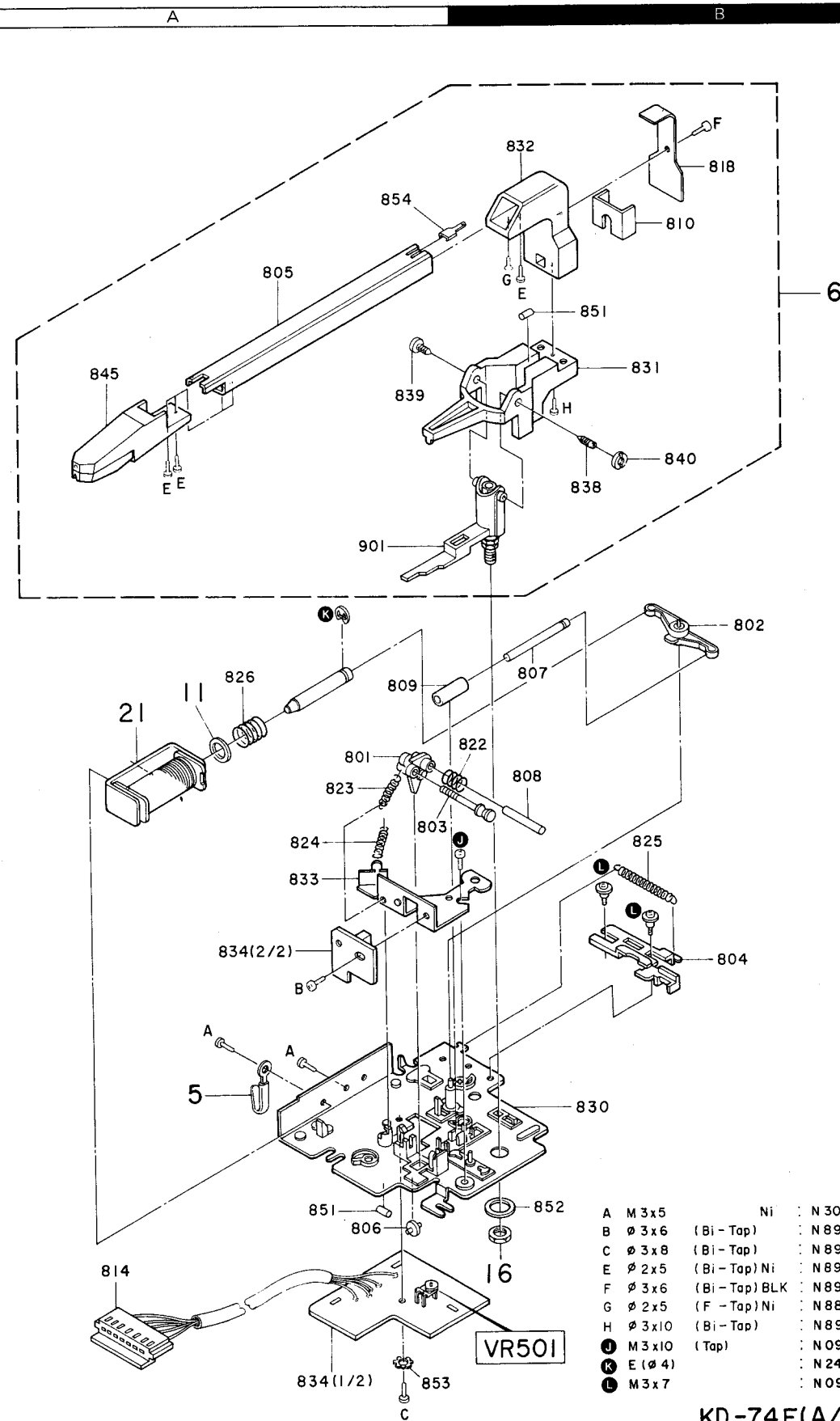
- Q1
- D1-6
- D7
- D8

- Q1
- D1-6
- D7
- D8

KD-74F

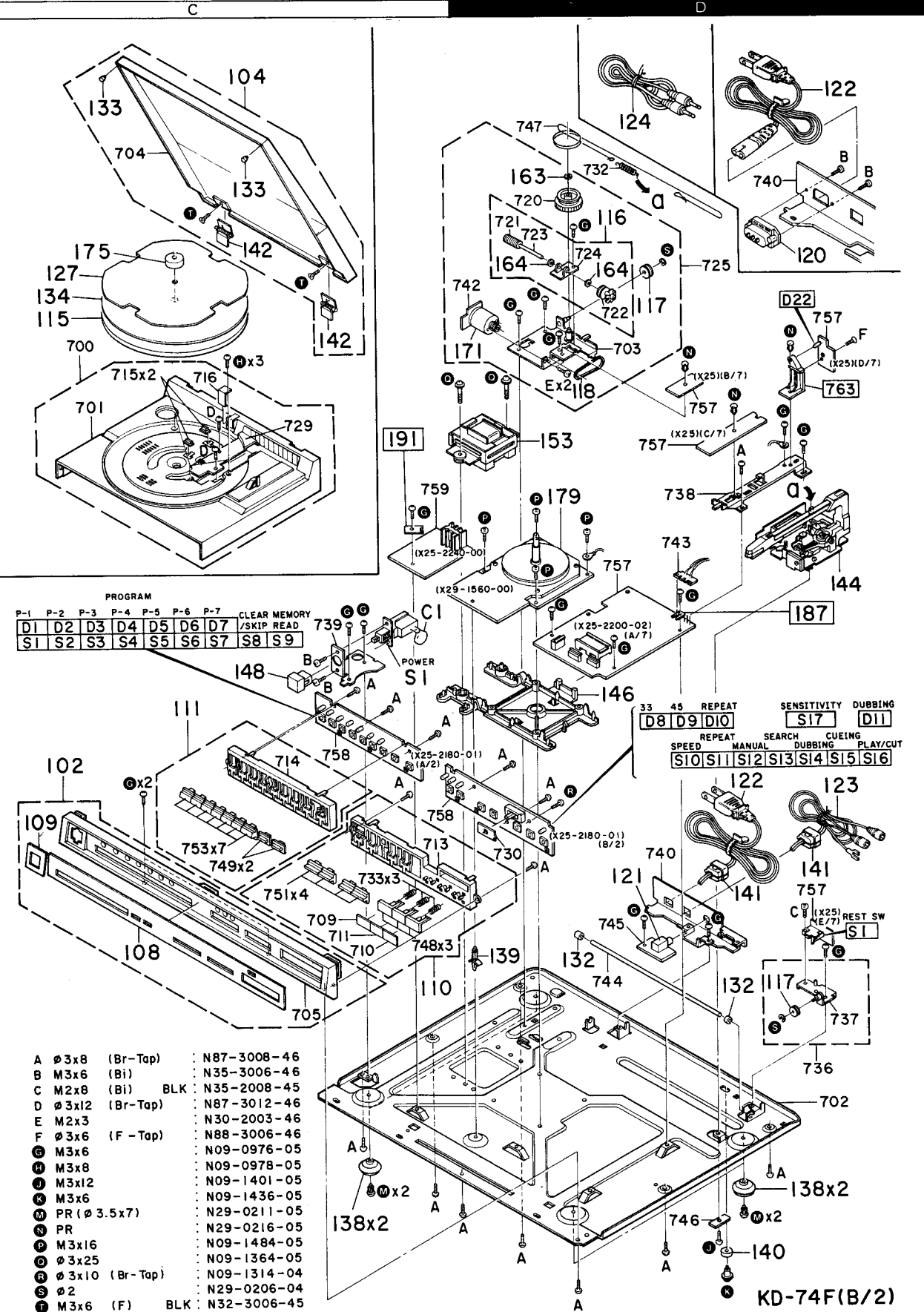
KENWOOD

EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts

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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KD-74F (Silver)						
102	2C	*	A20-4407-02	PANEL ASSY	KPUM UEXE T	
104	1C		A53-0712-02	DUST COVER ASSY		
104	1C		A53-0712-02	DUST COVER ASSY		
104	1C		A53-0714-02	DUST COVER ASSY		
108	3C	*	B03-1761-02	DRESSING PLATE (OPERATION KEY)		
109	2C		B03-1764-04	DRESSING PLATE (POWER)		
110	3C		B07-1379-02	ESCUTCHEON ASSY(R)		
111	2C	*	B07-1380-02	ESCUTCHEON ASSY(L)		
-			B46-0092-03	WARRANTY CARD	KK	
-			B46-0094-03	WARRANTY CARD	UUEU	
-			B46-0094-03	WARRANTY CARD	UE	
-			B46-0095-03	WARRANTY CARD	UUEU	
-			B46-0095-03	WARRANTY CARD	UE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0123-03	WARRANTY CARD	T	
-			B50-5719-00	INSTRUCTION MANUAL (ENGLISH)	KPUM	
-			B50-5719-00	INSTRUCTION MANUAL (ENGLISH)	UEXEK	
-			B50-5719-00	INSTRUCTION MANUAL (ENGLISH)	UUE	
-			B50-5720-00	INSTRUCTION MANUAL (FRENCH)	PMXE	
-			B50-5721-00	INSTRUCTION MANUAL (G.D.I)	E	
-			B50-5722-00	INSTRUCTION MANUAL (SPANISH)	M	
-			B50-5723-00	INSTRUCTION MANUAL (ARABIC)	M	
-			B50-5724-00	INSTRUCTION MANUAL (ENGLISH)	T	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	UU	
-			B58-0269-04	CAUTION CARD	KK	
-			B58-0335-04	CAUTION CARD		
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UUEU	
-			B59-0092-00	SERVICE DIRECTORY	UUEU	
-			B59-0092-00	SERVICE DIRECTORY	UE	
△ C1	2C		C91-0023-05	CERAMIC 0.01UF AC250V	UMUEU	
△ C1	2C		C91-0023-05	CERAMIC 0.01UF AC250V	UE	
△ C1	2C		C91-0647-05	CERAMIC 0.01UF P	KPXE	
△ C1	2C		C91-0647-05	CERAMIC 0.01UF P	K	
△ C63			CK45FF1H103Z	CERAMIC 0.010UF Z		
115	1C		D02-0055-05	TURNTABLE PLATTER		
116	1D		D13-0091-04	WORM (MECHANISM)		
117	1D, 3D		D15-0172-04	PULLEY (MECHANISM)		
118	1D		D16-0082-04	BELT (MECHANISM)		
△ 120	1D		E03-0102-15	AC INLET	UMUEU	
△ 120	1D		E03-0102-15	AC INLET	UE	
△ 121	3B		E11-0152-05	MINIATURE PHONE JACK (3P) SYNCRØ		
△ 122	2D		E30-0459-05	AC POWER CORD	E	
△ 122	2D		E30-0587-15	AC POWER CORD	T	
△ 122	1D		E30-1305-15	AC POWER CORD (INLET)	UMUEU	
△ 122	1D		E30-1305-15	AC POWER CORD (INLET)	UE	
△ 122	2D		E30-1341-05	AC POWER CORD	X	
△ 122	2D		E30-1350-05	AC POWER CORD	KPK	
△ 123	2D		E30-0853-05	AUDIO CORD	PUMUE	
123	2D		E30-0853-05	AUDIO CORD	XTEU	
123	2D		E30-0853-05	AUDIO CORD	UE	

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U: KD-74FC

U: KD-74FD

UE: KD-74FC

UE: KD-74FD

K: KD-74FCL

Others: KD-74F

△ indicates safety critical components.

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
123	2D		E30-0980-05	AUDIO CORD	KK	
124	1D		E30-0977-05	CORD WITH PLUG		
127	1C		F19-0354-04	BLIND PLATE (TRANSPARENT DISK)		
132	3D		G11-1034-04	CUSHION (TONEARM RAIL ENDS	KPUM	
133	1C		G13-0456-14	CUSHION (Ø4.3X2 GRAY)	UE XTE	
133	1C		G13-0456-14	CUSHION (Ø4.3X2 GRAY)	PUMUE	
134	1C		G16-0093-02	TURNTABLE SHEET	XTEU	
134	1C		G16-0093-02	TURNTABLE SHEET		
134	1C		G16-0094-02	TURNTABLE SHEET	UE	
-		*	H01-5511-04	ITEM CARTON CASE	KK	
-		*	H01-5511-04	ITEM CARTON CASE	PUMUE	
-		*	H01-5512-04	ITEM CARTON CASE	XEUUE	
-		*	H01-5513-04	ITEM CARTON CASE	K	
-		*	H01-5558-04	ITEM CARTON CASE	T	
-			H10-1751-02	POLYSTYRENE FOAMED FIXTURE	K	
-			H10-1752-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-1776-04	POLYSTYRENE FOAMED FIXTURE	KPUM	
-			H10-1776-04	POLYSTYRENE FOAMED FIXTURE	UE XTE	
-			H10-1776-04	POLYSTYRENE FOAMED FIXTURE	UE	
-			H12-0174-03	PACKING FIXTURE		
-			H25-0148-04	PROTECTION BAG (110X230X0.07)		
-			H25-0225-04	PROTECTION BAG (850X450)	KPUUE	
-			H25-0225-04	PROTECTION BAG (850X450)	XTEKU	
-			H25-0225-04	PROTECTION BAG (850X450)	UE	
-			H25-0232-04	PROTECTION BAG (235X350)		
-			H25-0625-04	PROTECTION BAG (620X740X0.03)	M	
-			H40-0005-04	RUST PREVENTING PAPER	M	
138	3C, 3D		J02-0151-14	INSULATOR ASSY		
139	3D		J19-0515-05	UNIT HOLDER (MOTOR PCB)		
140	3D		J30-0198-04	SPACER (TRANSPORTATION		
141	2D		J42-0083-05	POWER CORD BUSHING		
142	1D		J50-0115-15	HINGE	KPUM	
142	1D		J50-0115-15	HINGE	UE XTE	
144	2D		J91-0235-15	TONEARM ASSY		
146	2D		J19-2133-02	HOLDER (DD MOTOR)		
-			J61-0054-05	WIRE BAND		
-			J61-0307-05	WIRE BAND		
148	2C		K29-1446-04	KNOB ASSY (BUTTON) POWER		
153	1D		L01-3721-05	POWER TRANSFORMER	KPK	
153	1D		L01-3722-05	POWER TRANSFORMER	XTE	
153	1D		L01-3724-05	POWER TRANSFORMER	UMUEU	
153	1D		L01-3724-05	POWER TRANSFORMER	UE	
L3			L40-1511-14	SMALL FIXED INDUCTOR (150UH, K)		
163	1D		N19-0143-04	FLAT WASHER (Ø3) GEAR		
164	1D		N19-0333-04	FLAT WASHER (Ø2.1) WORM ASSY		
G	1D, 3D		N09-0976-05	TAPTITE SCREW (Ø3X6)		
H	1C		N09-0978-05	TAPTITE SCREW (Ø3X8)		
J	3D		N09-1401-05	STEPPED SCREW (M3X12) TRANSPORT		
K	3D		N09-1436-05	TAPPING SCREW (Ø3X6)		
L	2B		N09-1358-05	STEPPED SCREW (M3X7)		
M	3C, 3D		N29-0211-05	PUSH RIVET (Ø3.5X7)		

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U: KD-74FC

U: KD-74FD

UE: KD-74FC

UE: KD-74FD

Others: KD-74F

K: KD-74FCL

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N	1D		N29-0216-05	RIVET		
P	2D		N09-1484-05	TAPPING SCREW (Ø3X16)		
Q	1D		N09-1364-05	TAPTITE SCREW (Ø3X25)		
R	2D		N09-1314-04	SEMS (MACHINE SCREW) (Ø3X10)		
S	3D		N29-0206-04	RETAINING RING(Ø2)		
Δ S1	2C		S40-1066-05	PUSH SWITCH (POWER TYPE)		
171	1D		T42-0040-05	MOTOR ASSY		
175	1C		W01-0329-04	EP ADAPTER		
179	2D		X92-1050-00	MOTOR ASSY		
KD-74F (Black)						
102	2C	*	A20-4406-02	PANEL ASSY		
104	1C	*	A53-0704-02	DUST COVER ASSY	KPUM	
104	1C	*	A53-0704-02	DUST COVER ASSY	UEXE	
104	1C	*	A53-0705-02	DUST COVER ASSY	T	
108	3C	*	B03-1757-02	DRESSING PLATE (OPERATION KEY)		
109	2C	*	B03-1760-04	DRESSING PLATE (POWER)		
110	3C	*	B07-1383-02	ESCUTCHEON ASSY(R)		
111	2C	*	B07-1384-02	ESCUTCHEON ASSY(L)		
-			B46-0092-03	WARRANTY CARD	KK	
-			B46-0094-03	WARRANTY CARD	UUEU	
-			B46-0094-03	WARRANTY CARD	UE	
-			B46-0095-03	WARRANTY CARD	UUEU	
-			B46-0095-03	WARRANTY CARD	UE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0123-03	WARRANTY CARD	T	
-		*	B50-5719-00	INSTRUCTION MANUAL(ENGLISH)	KPUM	
-		*	B50-5719-00	INSTRUCTION MANUAL(ENGLISH)	UEXEK	
-		*	B50-5719-00	INSTRUCTION MANUAL(ENGLISH)	UUE	
-		*	B50-5720-00	INSTRUCTION MANUAL(FRENCH)	PMXE	
-		*	B50-5721-00	INSTRUCTION MANUAL(G,D,I)	E	
-		*	B50-5722-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B50-5723-00	INSTRUCTION MANUAL(ARABIC)	M	
-		*	B50-5724-00	INSTRUCTION MANUAL(ENGLISH)	T	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	UU	
-			B58-0269-04	CAUTION CARD	KK	
-		*	B58-0335-04	CAUTION CARD		
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UUEU	
-			B59-0092-00	SERVICE DIRECTORY	UUEU	
-			B59-0092-00	SERVICE DIRECTORY	UE	
C1	2C		C91-0023-05	CERAMIC 0.01UF AC250V	UMUEU	
C1	2C		C91-0023-05	CERAMIC 0.01UF AC250V	UE	
C1	2C		C91-0647-05	CERAMIC 0.01UF P	KPXTE	
C1	2C		C91-0647-05	CERAMIC 0.01UF P	K	
C63			CK45FF1H103Z	CERAMIC 0.010UF Z		
115	1C		D02-0055-05	TURNABLE PLATTER		
116	1D		D13-0091-04	WORM (MECHANISM)		
117	1D, 3D		D15-0172-04	PULLEY (MECHANISM)		
118	1D		D16-0082-04	BELT (MECHANISM)		
120	1D		E03-0102-15	AC INLET	UMUEU	

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△ 120	1D		E03-0102-15	AC INLET	UE	
121	3B		E11-0152-05	MINIATURE PHONE JACK(3P)SYNCRØ		
△ 122	2D		E30-0459-05	AC POWER CORD	E	
△ 122	2D		E30-0587-15	AC POWER CORD	T	
△ 122	1D		E30-1305-15	AC POWER CORD (INLET)	UMUEU	
△ 122	1D		E30-1305-15	AC POWER CORD (INLET)	UE	
△ 122	2D		E30-1341-05	AC POWER CORD	X	
△ 122	2D		E30-1350-05	AC POWER CORD	KPK	
123	2D		E30-0853-05	AUDIO CORD	PUMUE	
123	2D		E30-0853-05	AUDIO CORD	XTEU	
123	2D		E30-0853-05	AUDIO CORD	UE	
123	2D		E30-0980-05	AUDIO CORD	KK	
124	1D		E30-0977-05	CORD WITH PLUG		
127	1C		F19-0354-04	BLIND PLATE (TRANSPARENT DISK)		
132	3D		G11-1034-04	CUSHION (TONEARM RAIL ENDS)		
133	1C		G13-0456-14	CUSHION (Ø4.3X2 GRAY)	KPUM	
133	1C		G13-0456-14	CUSHION (Ø4.3X2 GRAY)	UEXTE	
134	1C		G16-0093-02	TURNTABLE SHEET	PUMUE	
134	1C		G16-0093-02	TURNTABLE SHEET	XTEU	
134	1C		G16-0093-02	TURNTABLE SHEET	UE	
134	1C	*	G16-0094-02	TURNTABLE SHEET	KK	
-		*	H01-5508-04	ITEM CARTON CASE	PUMUE	
-		*	H01-5508-04	ITEM CARTON CASE	XEUUE	
-		*	H01-5509-04	ITEM CARTON CASE	K	
-		*	H01-5510-04	ITEM CARTON CASE	T	
-		*	H01-5557-04	ITEM CARTON CASE	K	
-			H10-1751-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-1752-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-1776-04	POLYSTYRENE FOAMED FIXTURE	KPUM	
-			H10-1776-04	POLYSTYRENE FOAMED FIXTURE	UEXTE	
-			H12-0174-03	PACKING FIXTURE		
-			H25-0148-04	PROTECTION BAG (110X230XD.07)		
-			H25-0225-04	PROTECTION BAG (850X450)	KPUUE	
-			H25-0225-04	PROTECTION BAG (850X450)	XTEKU	
-			H25-0225-04	PROTECTION BAG (850X450)	UE	
-			H25-0232-04	PROTECTION BAG (235X350)		
-			H25-0625-04	PROTECTION BAG (620X740XD.03)	M	
-			H40-0005-04	RUST PREVENTING PAPER	M	
138	3C,3D		J02-0151-14	INSULATOR ASSY		
139	3D		J19-0515-05	UNIT HOLDER (MOTOR PCB)		
140	3D		J30-0198-04	SPACER (TRANSPORTATION)		
△ 141	2D		J42-0083-05	POWER CORD BUSHING		
142	1D		J50-0115-15	HINGE	KPUM	
142	1D		J50-0115-15	HINGE	UEXTE	
144	2D	*	J91-0254-15	TONEARM ASSY		
146	2D		J19-2133-02	HOLDER (DD MOTOR)		
-			J61-0054-05	WIRE BAND		
-			J61-0307-05	WIRE BAND		
148	2C		K29-2001-04	KNØB ASSY(BUTTON) POWER		
△ 153	1D		L01-3721-05	POWER TRANSFORMER	KPK	
△ 153	1D		L01-3722-05	POWER TRANSFORMER	XTE	
△ 153	1D		L01-3724-05	POWER TRANSFORMER	UMUEU	

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PARTS LIST

× New Parts

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
△ 153 L3	1D		L01-3724-05 L40-1511-14	POWER TRANSFORMER SMALL FIXED INDUCTOR(150UH,K)	UE	
163	1D		N19-0143-04	FLAT WASHER (Ø3) GEAR		
164	1D		N19-0333-04	FLAT WASHER (Ø2.1)WORM ASSY		
G	1D, 3D		N09-0976-05	TAPTITE SCREW (Ø3X6)		
H	1C		N09-0978-05	TAPTITE SCREW (Ø3X8)		
J	3D		N09-1401-05	STEPPED SCREW (M3X12)TRANSPORT		
K	3D		N09-1436-05	TAPPING SCREW (Ø3X6)		
L	2B		N09-1358-05	STEPPED SCREW (M3X7)		
M	3C, 3D		N29-0211-05	PUSH RIVET (Ø3.5X7)		
N	1D		N29-0216-05	RIVET		
P	2D		N09-1484-05	TAPPING SCREW (Ø3X16)		
Q	1D		N09-1364-05	TAPTITE SCREW (Ø3X25)		
R	2D		N09-1314-04	SEMS (MACHINE SCREW) (Ø3X10)		
S	3D		N29-0206-04	RETAINING RING(Ø2)		
△ S1	2C		S40-1066-05	PUSH SWITCH(POWER TYPE)		
171	1D		T42-0040-05	MOTOR ASSY		
175	1C		W01-0329-04	EP ADAPTER		
179	2D		X92-1050-00	MOTOR ASSY		
OPERATION (X25-2180-01)						
D1 -11	1D		B30-0431-05	LED(LN21CPH)PR0G,33,45,RPT ETC		
S1 -16	2C, 2D		S40-1085-05	PUSH SWITCH (OPERATION KEY)		
S17	2D	*	S31-2088-05	SLIDE SWITCH (SENSITIVITY)		
ELECTRIC (X25-2200-02)						
D22	1D	*	B30-1047-05	LED(GL520) (SIZE DETECTOR)		
C11		*	CC45FCH1H680J	CERAMIC 68PF J		
C12			C91-0700-05	CERAMIC 0.1UF J		
C13			CK45FF1H103Z	CERAMIC 0.010UF Z		
C14			CE04FW1A470M	ELECTRO 47UF 10WV		
C15 ,16			CK45FF1H103Z	CERAMIC 0.010UF Z		
C17			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C18 -21			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CF92FV1H473J	MF 0.047UF J		
C23			CK45FF1H223Z	CERAMIC 0.022UF Z		
C24			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C25			CK45FF1H103Z	CERAMIC 0.010UF Z		
C26			CE04FW1C220M	ELECTRO 22UF 16WV		
C27			CK45FF1H103Z	CERAMIC 0.010UF Z		
C28			CE04FW1H2R2M	ELECTRO 2.2UF 50WV		
C29			CK45FF1H103Z	CERAMIC 0.010UF Z		
C31			CE04FW1C100M	ELECTRO 10UF 16WV		
C32			CK45FF1H103Z	CERAMIC 0.010UF Z		
C35			CE04FW1A101M	ELECTRO 100UF 10WV		
C36			CE04FW1C101M	ELECTRO 100UF 16WV		
C37 -39			CK45FF1H103Z	CERAMIC 0.010UF Z		
C41 ,42			CK45FF1H473Z	CERAMIC 0.047UF Z		
C56			CE04W0J221M	ELECTRO 220UF 6.3WV		
C57			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C58			CK45FF1H103Z	CERAMIC 0.010UF Z		
C60			CE04FW1HR22M	ELECTRO 0.22UF 50WV		

E: Scandinavia & Europe H: Audio Club K: USA

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S: South Africa T: England U: PX(Far East, Hawaii)

UE: AAFES(Europe) X: Australia M: Other Areas

K: KD-74FC

U: KD-74FC

U: KD-74FD

UE: KD-74FC

UE: KD-74FD

Others: KD-74F

K: KD-74FCL

△ indicates safety critical components.

PARTS LIST

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C303			CK45FF1H473Z	CERAMIC 0.047UF Z		
187	2D		E23-0125-05	TERMINAL (GND)		
L11			L40-1511-14	SMALL FIXED INDUCTOR(150UH,K)		
VR1			R12-5309-05	TRIMMING POT. (100K) SENSITIVITY		
S1	3D	*	S33-1017-05	LEVER SWITCH (REST SWITCH)		
PH1		*	T95-0022-05	OPTO ISOLATOR		
D11 -19			1S1555	DIODE		
D11 -19			1S2076	DIODE		
D20			1S2076A	DIODE		
D21			W06B	DIODE		
D23 -30			1S1555	DIODE		
D23 -32			1S2076	DIODE		
D31			1S2076	DIODE		
D32			1S1555	DIODE		
D33			RD4.7E(B2)	ZENER DIODE		
D35			1S1555	DIODE		
D35			1S2076	DIODE		
IC1		*	LM6402G-492	IC(MICROPROCESSOR)		
IC2			AN6556	IC(OP AMP X2)		
IC2			RC4558P	IC(OP AMP X2)		
IC3		*	HD14001BP	IC(NOR X4)		
IC3			UPD4001BC	IC(NOR X6)		
IC4 ,5			AN6556	IC(OP AMP X2)		
IC4 ,5			RC4558P	IC(OP AMP X2)		
Q11			2SA733(A)(Q,P)	TRANSISTOR		
Q11			2SA933S(Q,R)	TRANSISTOR		
Q12 ,13			2SD655(E,F)	TRANSISTOR		
Q14 ,15			2SC1740S(Q,R)	TRANSISTOR		
Q14 ,15			2SC945(A)(Q,P)	TRANSISTOR		
Q16			2SA733(A)(Q,P)	TRANSISTOR		
Q16			2SA933S(Q,R)	TRANSISTOR		
Q17			2SC1384NC(R,S)	TRANSISTOR		
Q17			2SC2120	TRANSISTOR		
Q18			2SC1740S(Q,R)	TRANSISTOR		
Q18			2SC945(A)(Q,P)	TRANSISTOR		
Q19			2SA684NC(R,S)	TRANSISTOR		
Q19			2SA950	TRANSISTOR		
Q20			2SC1384NC(R,S)	TRANSISTOR		
Q20			2SD863(E,F)	TRANSISTOR		
Q21			2SA684NC(R,S)	TRANSISTOR		
Q21			2SB764(E,F)	TRANSISTOR		
Q22			DTA114EFF	DIGITAL TRANSISTOR		
Q23 ,24			TPS605(TRIO)	PHOTO TRANSISTOR		
Q25			2SC1740S(Q,R)	TRANSISTOR		
Q25			2SC945(A)(Q,P)	TRANSISTOR		
Q26			2SD655(E,F)	TRANSISTOR		
Q27			2SC1740S(Q,R)	TRANSISTOR		
Q27			2SC945(A)(Q,P)	TRANSISTOR		
Q202			2SC1740S(Q,R)	TRANSISTOR		
Q202			2SC945(A)(Q,P)	TRANSISTOR		

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ELECTRIC (X25-2240-00)						
C1 ,2 C3 C4 C5 ,6 C7		*	C90-1304-05 CE04FW1E471M CK45FF1H473Z CE04FW1C220M CK45FF1H103Z	ELECTRØ 1000UF 16WV ELECTRØ 470UF 25WV CERAMIC 0.047UF Z ELECTRØ 22UF 16WV CERAMIC 0.010UF Z		
C8 C9			CE04FW1H4R7M CK45FF1H103Z	ELECTRØ 4.7UF 50WV CERAMIC 0.010UF Z		
191	1C		E23-0125-05	TERMINAL (GND)		
D1 -6 D7 D8 Q1			W06B RD6.2E(B2) 1S2076 2SD882(Q,P)	DIØDE ZENER DIØDE DIØDE TRANSISTØR		
CONTROL CIRCUIT (X29-1560-00)						
C1 C2 C3 C4 C5			CE04FW1HR22M CF92FV1H223J CE04FW1C100M CF92FV1H223J CK45FF1H103Z	ELECTRØ 0.22UF 50WV MF 0.022UF J ELECTRØ 10UF 16WV MF 0.022UF J CERAMIC 0.010UF Z		
C6 C7 C8 C9 C11			CF92FV1H103J CQ93HP2A473J CE04HW1H010M CE04FW1C100M CE04FW1C330M	MF 0.010UF J MYLAR 0.047UF J NP-ELEC 1.0UF 50WV ELECTRØ 10UF 16WV ELECTRØ 33UF 16WV		
C12 C13 ,14			CK45FF1H103Z CK45FF1H473Z	CERAMIC 0.010UF Z CERAMIC 0.047UF Z		
VR1 VR2			R12-4026-05 R12-5037-05	TRIMMING PØT. (50K) SPEED TRIMMING PØT. (100K) SPEED		
H1 ,2			T95-0015-15	HALL IC (H-300B)		
D1 IC1 IC2 Q1 Q1			RD5.1E(B2) BA6303 AN6556 2SC1685(R,S) 2SC945(A)(Q,P)	ZENER DIØDE IC(FG TYPE SPEED CØNTRØLLER) IC(OP AMP X2) TRANSISTØR TRANSISTØR		
Q2 Q2 Q3 ,4 Q5 ,6			2SA1127NC(R,S) 2SA733(A)(Q,P) 2SC1384NC(R,S) 2SA684NC(R,S)	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
TONEARM ASS'Y (J91-0235-15)						
C501			CE04FW1A470M	ELECTRØ 47UF 10WV		
5 6 6	3A 1B 1B	*	J19-0306-05 J91-0239-05 J91-0267-05	LEAD HØLDER (TØNEARM) PICKUP ARM PICKUP ARM		S B
14 J	3B 2B		N14-0146-05 ND9-1467-05	HEXAGON NUT (M4X0.5) SEMS (TAPTITE SCREW) (Ø3X10)		
VR501	3B		R12-1051-05	TRIMMING PØT. (1K) ØFFSET		
21 PH1 ,2	2A		T94-0050-08 T95-0020-05	MAGNETIC PLUNGER ØPTØ ISØLATØR (TRACKING ERRØR)		

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Remarks :
S : J91-0235-15
B : J91-0254-15

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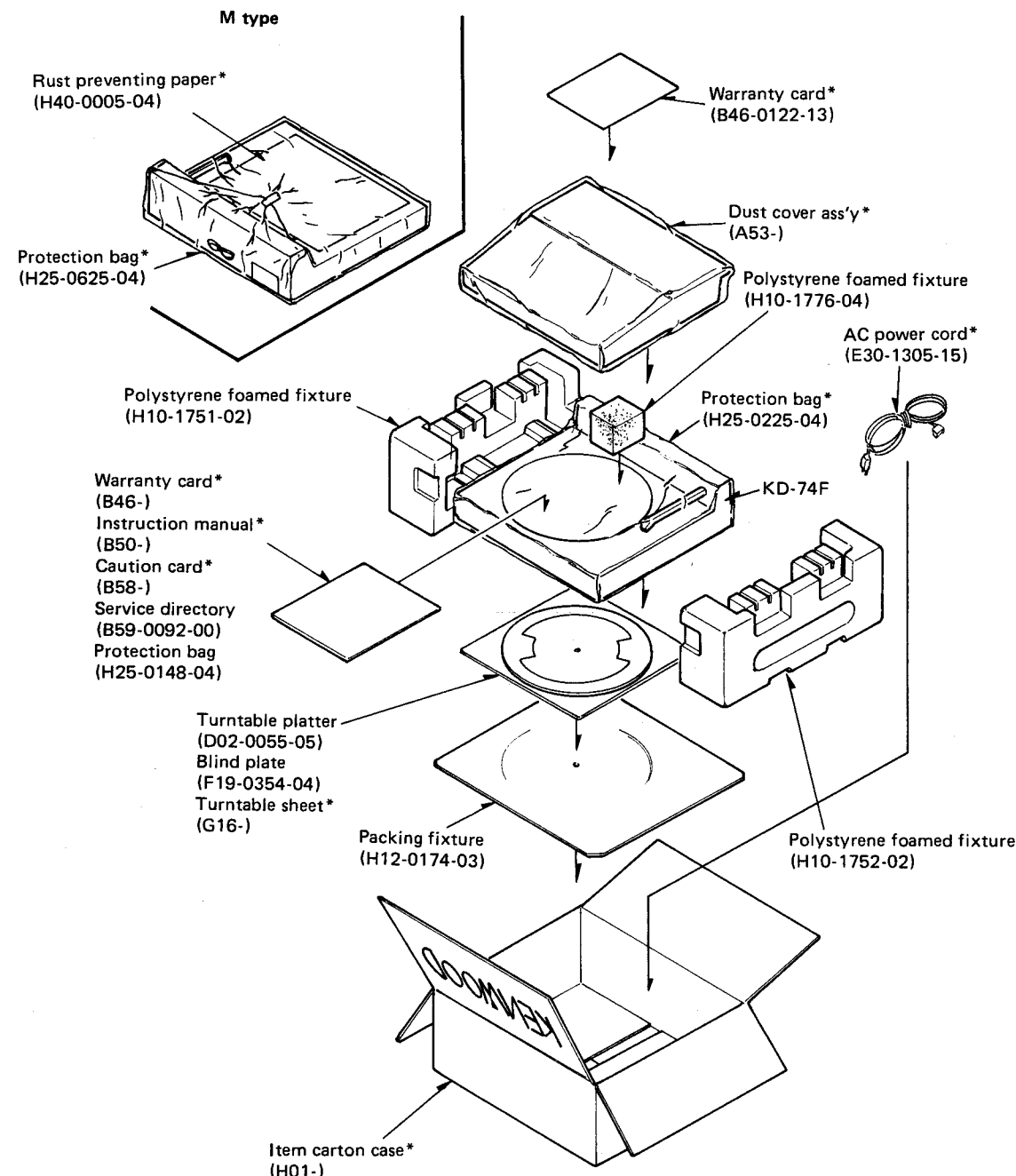
Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q501			2SC945(L)(Q)	TRANSISTØR		

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Remarks :
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PACKING



*Refer to parts list on page 33.

SPECIFICATIONS

Motor and turntable

Drive system.....	Direct-drive system
Motor.....	Coreless & slotless FG servo motor
Turntable platter.....	29.8 cm (11-3/4") diameter 0.63 kg (1.4 lb) weight
Speeds.....	2 speeds, 33-1/3 and 45 rpm
Wow & flutter.....	0.025% (WRMS) DIN: 0.05%
S/N (Rumble).....	DIN: 40 dB (DIN. A) DIN: 75 dB (DIN. B)

Tonearm

Type.....	Static-balance linear tracking tonearm
Tracking error.....	± 0.2°
Tracking force variable range.....	2 grams (fixed)

Cartridge

Furnished cartridge.....	V-58 (IM cartridge with photo sensor)
Frequency response.....	20 ~ 20,000 Hz
Channel separation.....	Better than 22 dB (1,000 Hz)

Output voltage.....	2.3 mV (1,000 Hz, 5 cm/sec.)
Output balance.....	2.0 dB (1,000 Hz, 5 cm/sec.)
Load Impedance.....	47 k ohms
Stylus.....	0.6 mil diamond
Optimum Tracking Force.....	2.0 grams
Compliance.....	7 × 10 ⁻⁶ cm/dyne
Replacement Stylus.....	N-58
Miscellaneous	
Power Requirements.....	AC 120 V, 60 Hz: U.S.A. and Canada AC 240 V, 50 Hz: U.K. and Australia AC 220 V, 50 Hz: Europe AC 120 V/220-240V, 50/60 Hz (Switchable): Other countries
Power Consumption.....	10 watts
Dimensions.....	W 420 mm (16-9/16") H 90 mm (3-9/16") D 359 mm (14-1/8")
Weight.....	5.7 kg (12.5 lb)

Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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