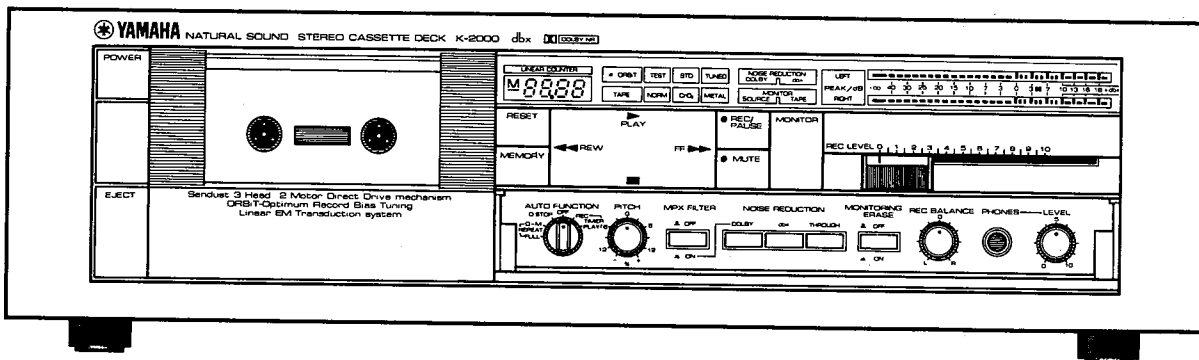


STEREO CASSETTE DECK K-2000

SERVICE MANUAL

FRONT PANEL



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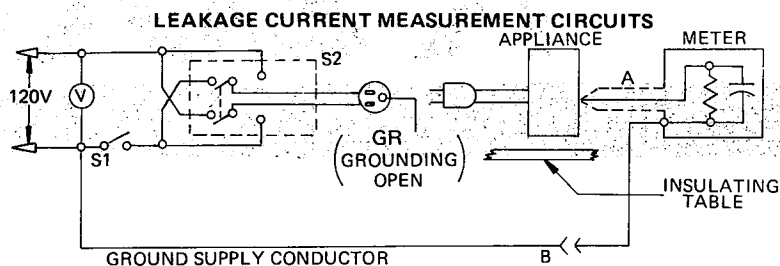


■ TO SERVICE PERSONNEL

(Prepared in accordance with UL Standard 1270)

Before service of this appliance by you, please carefully read this service manual.

Please make Leakage-current or Resistance measurements by suitable meter to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.



Appliance intended for connection to a 120 volt power supply.

- A PROBE WITH SHIELDED LEAD.
 B SEPARATED AND USED AS CLIP WHEN MEASURING CURRENTS FROM ONE PART OF APPLIANCE TO ANOTHER.

Confirm that the leakage current is not more than 0.5mA AC.

■ SPECIFICATIONS

Track Configuration	4-track 2 channel Stereo Cassette Deck
Transport Controls	5-key feather touch full logic control
■ MECHANICAL SECTION	
Tape Speed	4.8 cm/sec
Wow & Flutter	less than 0.08% W. Peak less than 0.02% W. RMS
Rapid Transport (F. FWD/REW)	Within 75 seconds (for C-60 cassette)
Motor	1 Pulse Servo Brushless DD motor (Capstan) 1 Flat Torque DC motor (Reel)
Mechanism	2-motor, 2-solenoid mechanism
■ HEAD SECTION	
Recording/Playback Head	Combination, Low-Impedance Sendust 3 Laminate Core
Erase Head (Main, Sub)	Double Gap Sendust Clevite
■ AMPLIFIER SECTION	
REC/PB Frequency Response	
Normal tape (-20dB)	20Hz to 18kHz ± 3 dB
Chrome tape (-20dB)	20Hz to 20kHz ± 3 dB
Metal tape (-20dB)	20Hz to 20kHz ± 3 dB
(0dB)	30Hz to 15kHz ± 3 dB
Input Sensitivity/Impedance	LINE: 50mV/30k Ω
Maximum allowable input	LINE: 6V

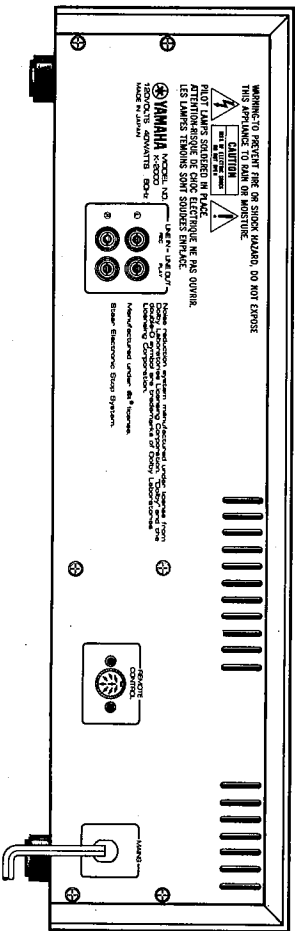
Output Level/Impedance	LINE: 500mV/30k Ω PHONES: 170mV/8 Ω
Signal-to-Noise Ratio	
THROUGH	more than 59dB
DOLBY	more than 68dB
dbx	more than 108 dB
Harmonic Distortion	
Metal tape (315Hz)	less than 0.8%
■ GENERAL	
Power Supplies	
U.S. & Canadian Models	120V 60Hz
European Model	220V 50Hz
British & Australian Models	240V 50Hz
General Model	110/120/220/240V 50/60Hz
Power Consumption	40W
Dimensions	435 x 122.5 x 346
(W x H x D)	(17-1/8x4-7/8x13-5/8")
Weight	9 kg (19.8 lbs)

Specifications subject to change without notice.

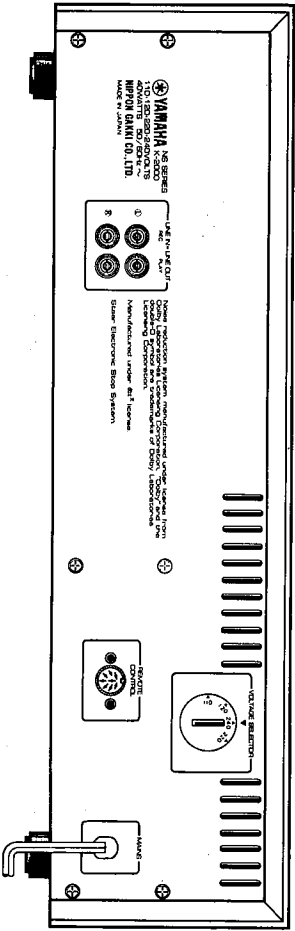
- (U) U.S.A. model
 (C) Canadian model
 (A) Australian model
 (G) European model
 (B) British model
 (R) General model

REAR PANEL

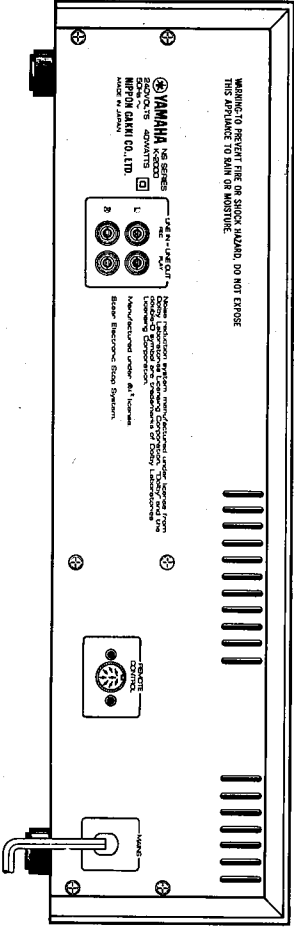
U.S.A. & Canadian models



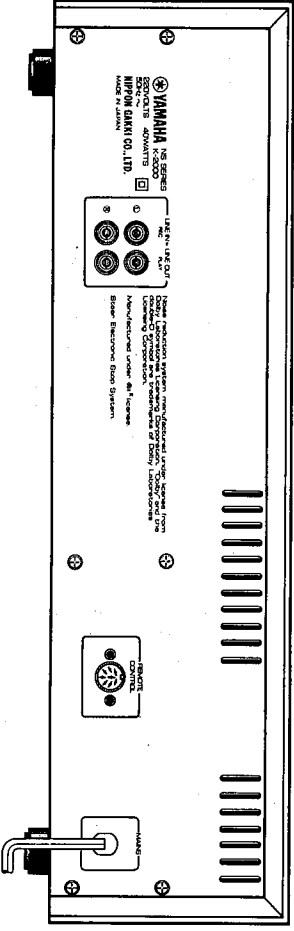
General model



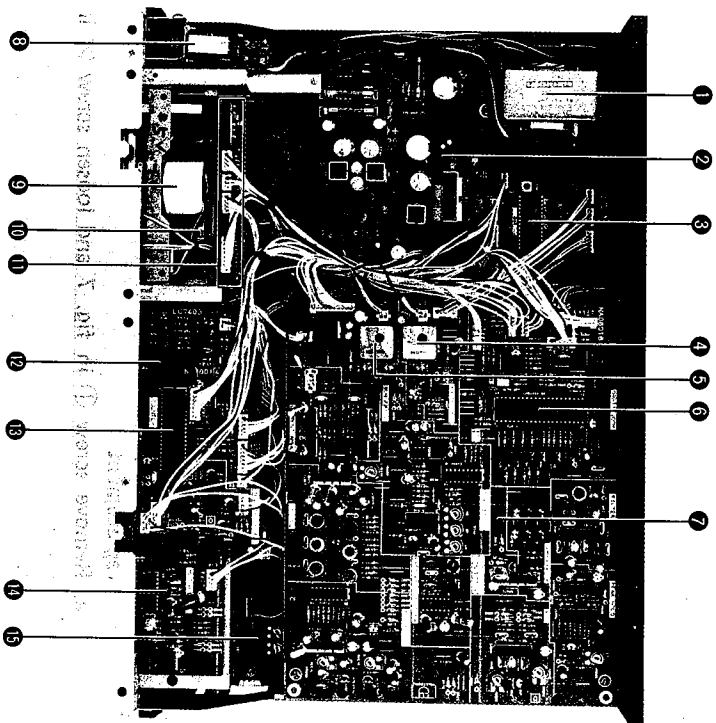
British & Australian Models



European model



INTERNAL VIEW



DISASSEMBLY PROCEDURES

DISASSEMBLY PROCEDURES OF CABINET PARTS

1. Top cover removal

Remove screws ① and ② of both left and right sides in fig. 1, and then remove the top cover.

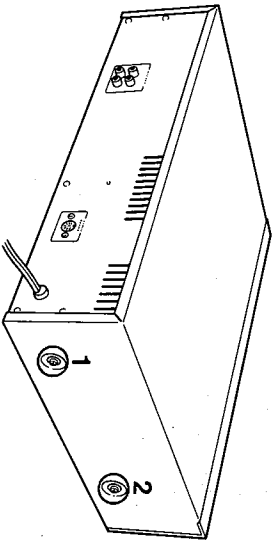


Fig. 1

2. Bottom cover removal

Remove screws ① through ⑧ in fig. 2 and then remove the bottom cover.

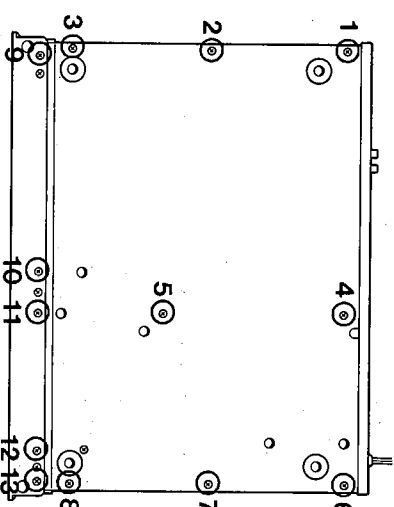


Fig. 2

POWER TRANSFORMER

U.S.A. & Canadian models: GA65850
Australian & British models: GA65860

European model: GA65870

General model: GA65840

POWER CIRCUIT BOARD (1)

LOGIC CONTROL BOARD (1)

BIAS OSC.: iG08970

BIAS OSC.: iG07600

α ORBIT IC: LM6405A-150

RECORDING AMP. CIRCUIT BOARD

POWER SWITCH

REEL MOTOR

CAPSTAN MOTOR (D.D. Motor)

RELAY CIRCUIT BOARD

COUNTER CIRCUIT BOARD (1)

COUNTER IC: LM6402A-108

COUNTER CIRCUIT BOARD (2)

MAIN CIRCUIT BOARD (1)

3. Front panel removal

a. Remove the top cover.

b. Open two binding ties which tieup each connectors.

c. Remove screws ① and ② in fig. 3 and pull the counter circuit board (1) backward gently (connected to the front panel by connectors.)

d. Remove screws ③ and ④ in fig. 3 and pull the counter circuit board (2) backward gently (connected to the front panel as well as counter circuit board (1).)

e. Remove connectors #12, #14, #15, #16, #17.

f. Remove screws ⑨ through ⑬ (binding screws only) in fig. 2 and screws ⑤ through ⑧ (binding screws only) in fig. 3, and then pull the front panel forward gently.

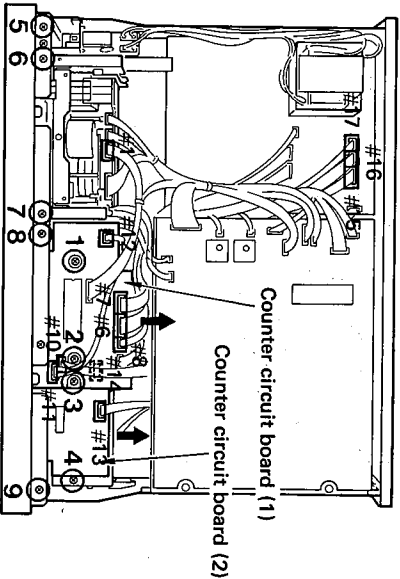
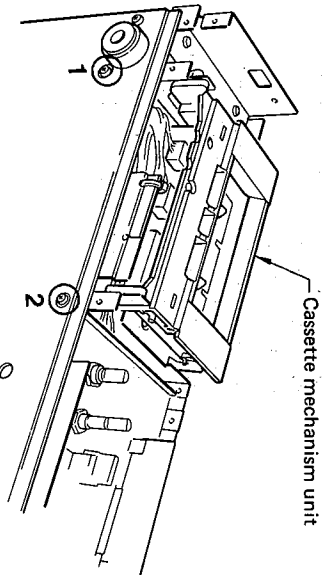


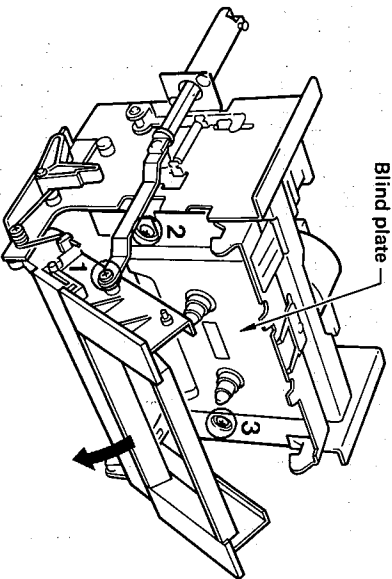
Fig. 3

DISASSEMBLY PROCEDURES OF CASSETTE MECHANISM

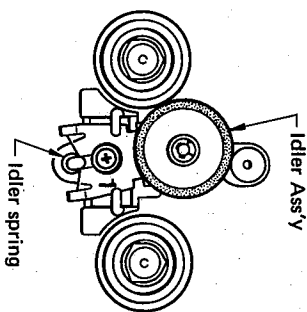
1. **Cassette mechanism unit removal**
- a. Remove the top cover and front panel.
 - b. Disconnect the connectors (#1, #3, #4, #5) connected to the relay circuit board. (Refer to fig. 15)
 - c. Disconnect the head lead wire connectors (#25, #26, #27, #28). (Refer to fig. 15)
 - d. Remove screws ① and ③ in fig. 4, and you can remove the cassette mechanism unit.



2. **Idler Ass'y replacement**
- a. Remove screw ① in fig. 5 and open the cassette holder.
 - * Be careful of the spring position when assembling unit. (Refer to fig. 5)
 - b. Loosen the lead wires (orange and white-colored) of LED on the blind plate.
 - c. Remove screws ② and ③ in fig. 5 and then remove the blind plate.

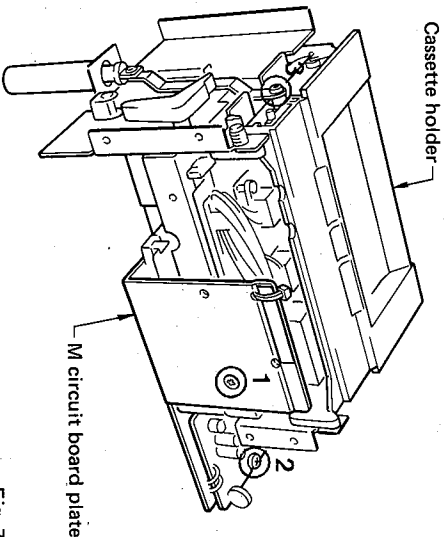


- d. Remove screw ① and idler spring in fig. 6, and replace the idler ass'y.



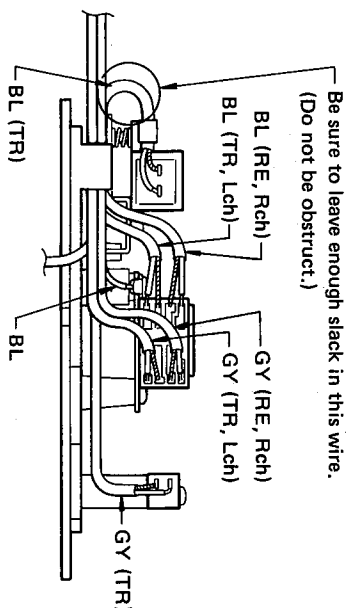
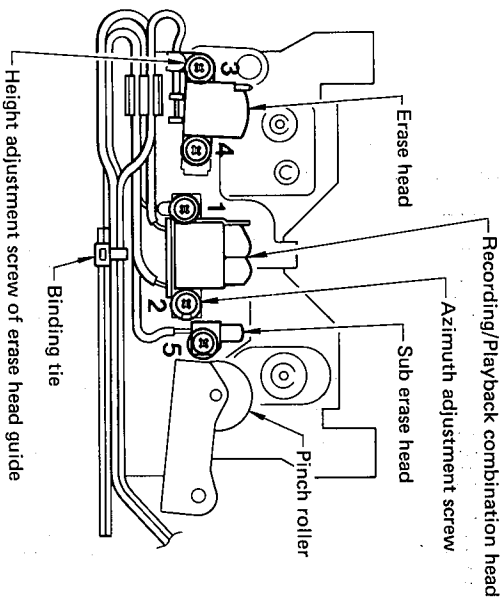
3. **Recording/playback combination head and erase head replacement**

- a. Remove screw ① in fig. 7 and loosen screw ② in fig. 7, and then remove the M circuit board plate.
- b. Remove screw ③ in fig. 7 and open the cassette holder.
- c. Unsolder the lead wires of heads.
- * Refer to fig. 9 when connecting them.
- d. Remove screws ① and ② in fig. 8 and then replace the recording/playback combination head.
- e. Remove screws ③ and ④ in fig. 8 and then replace the erase head.
- * Check head azimuth adjustment when replacing the recording/playback head.
- * Check height adjustment of erase head guide when replacing the erase head.
- f. Remove screw ⑤ in fig. 8 and then replace the sub erase head.



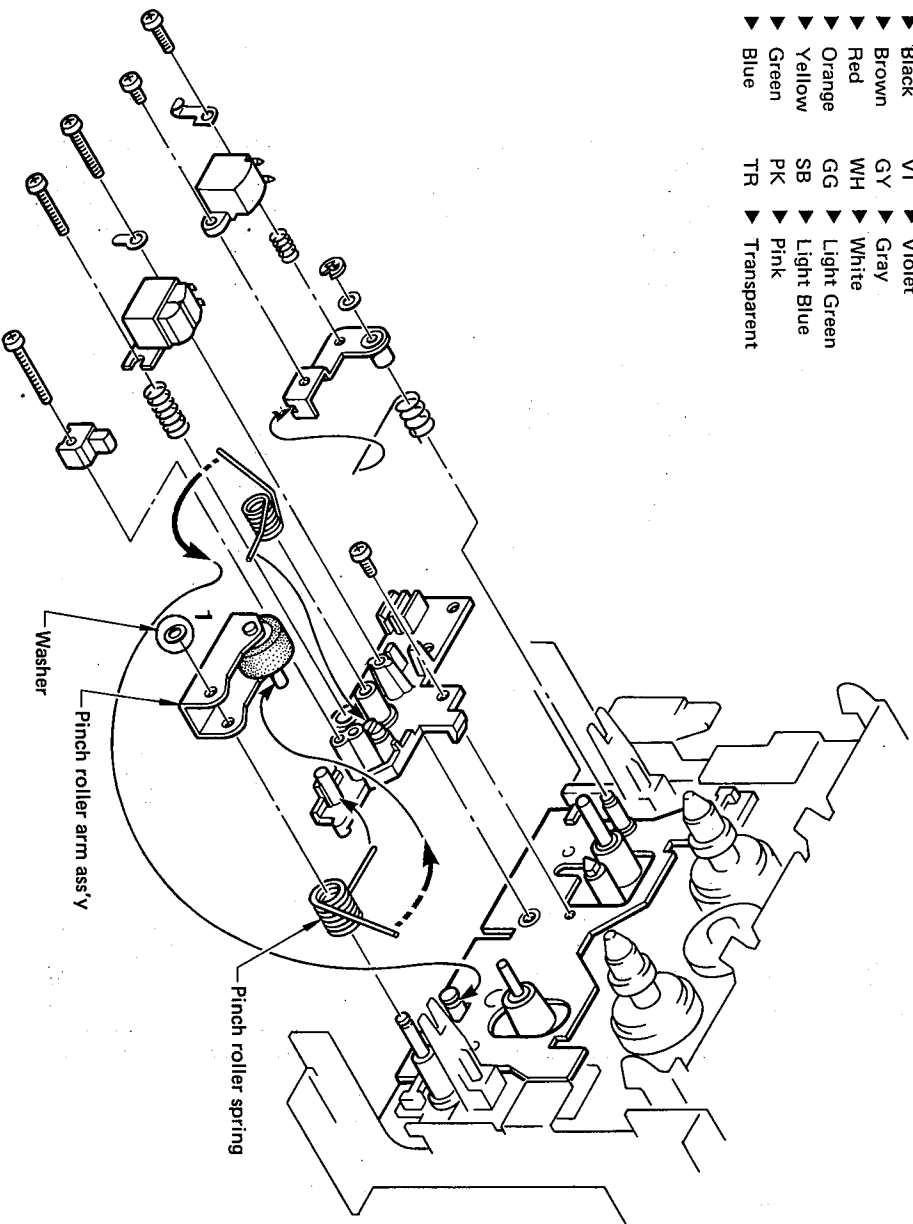
4. **Pinch roller replacement**

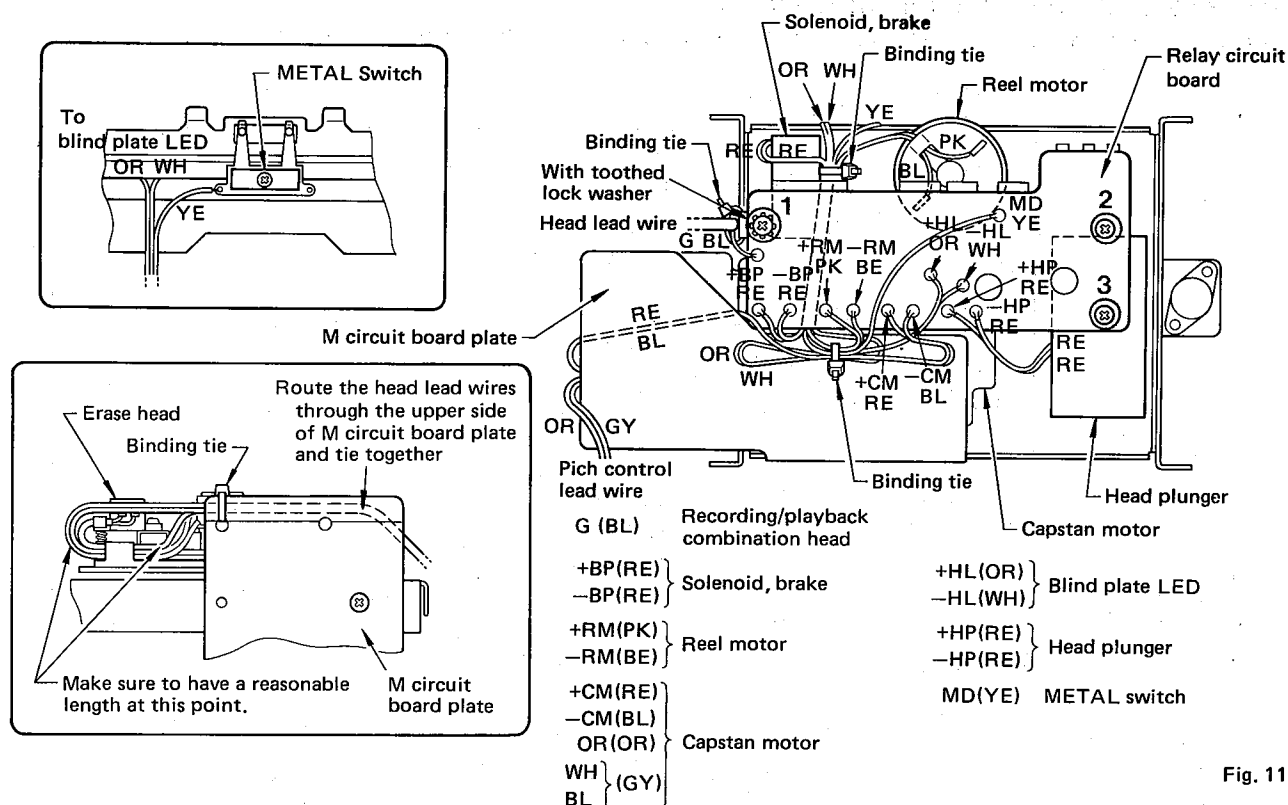
- a. Open the cassette holder.
- b. Remove the washer ① in fig. 10 and then replace the pinch roller arm ass'y.
- * Refer to fig. 10 as to the position of pinch roller spring.



• WIRE COLOR ABBREVIATIONS

BL ▶ Black	VI ▶ Violet
BR ▶ Brown	GY ▶ Gray
RE ▶ Red	WH ▶ White
OR ▶ Orange	GG ▶ Light Green
YE ▶ Yellow	SB ▶ Light Blue
GR ▶ Green	PK ▶ Pink
BE ▶ Blue	TR ▶ Transparent





5. Reel motor replacement

- Removing the reel motor with idler ass'y is impossible, so first remove the idler ass'y according to procedure 2 on P4.
 - Remove screws ① through ③ in fig. 11 and then remove the relay circuit board.
 - Remove screw ① in fig. 12 and then remove the reel motor unit.
- * At this time, if the idler ass'y has not been removed, you will be not able to remove the reel motor unit.

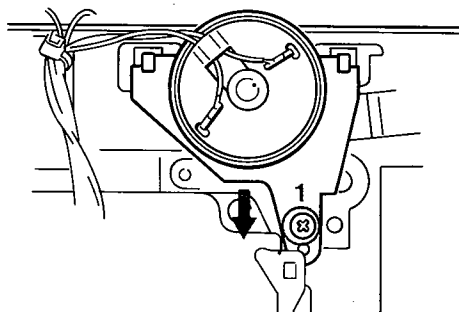


Fig. 12

- When installing relay circuit board, make sure that acrylic fibers are securely fitted into acrylic fiber holders (2 locations).

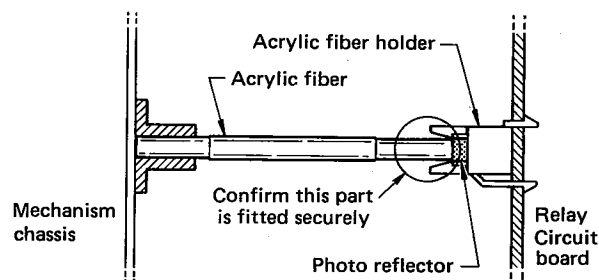


Fig. 13

6. Capstan motor replacement

- Remove the relay circuit board.
- Remove the M circuit board plate.
- Remove screws ① through ③ in fig. 14 and then replace the capstan motor.

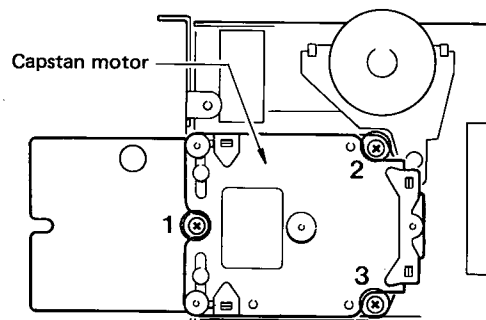


Fig. 14

PARTS OF EACH CIRCUIT BOARD REPLACEMENT

* Replacement of the parts of most circuit boards in this unit is possible by removing the top and bottom cover.

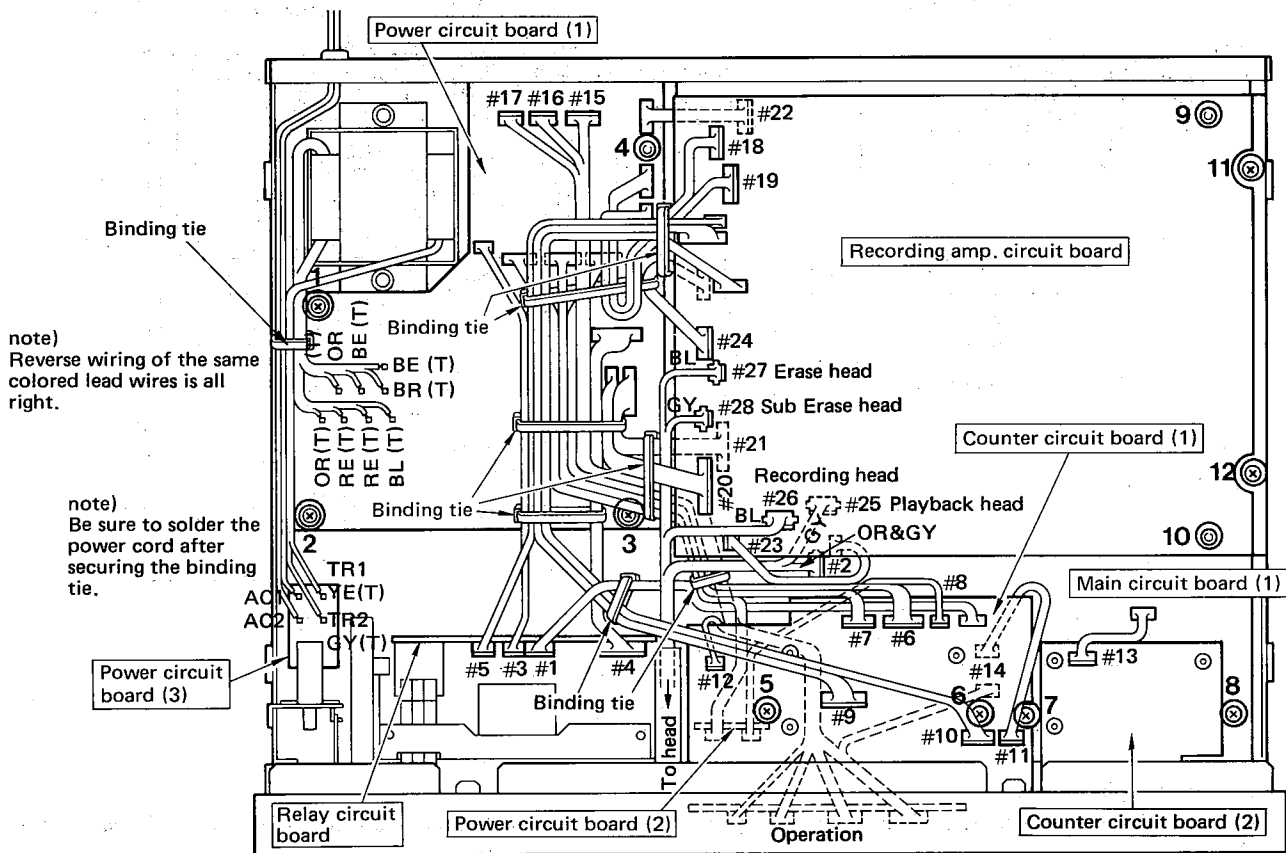


Fig. 15

1. Counter circuit board (1) removal

Remove screws ⑤ and ⑥ in fig. 15 and then pull out the counter circuit board (1) by sliding it backward.

* This circuit board is connected to the front panel with connectors.

2. Counter circuit board (2) removal

Remove screws ⑦ and ⑧ and then pull out the counter circuit board (2) by sliding it backward.

* This circuit board is connected to the front panel with connectors.

3. Recording amp. circuit board replacement

Remove plastic rivets ⑨ and ⑩ in fig. 15 and then rotate the recording amp. circuit board upward. (Refer to fig. 16)

In this way, you can replace the parts.

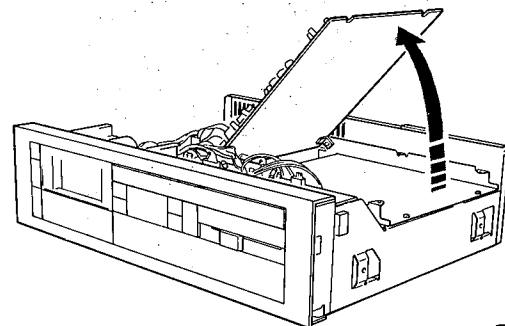


Fig. 16

4. Adjustment and parts replacement of main circuit board

Remove screws ⑪ and ⑫ (don't remove plastic rivets ⑨ and ⑩) in fig. 15 and then rotate the recording amp. unit upward.

In this way, you can perform adjustments and parts replacement on main circuit board.

ADJUSTMENTS

1. Before adjustment

- Since head magnetization, dust accumulations, etc. are likely to introduce error in the various characteristics, it is very important that the heads are properly demagnetized and cleaned.
- Proceed with the recording section adjustment after having finished the playback section adjustment.

2. Instruments required

- Audio frequency oscillator
- ACVM or 2 channel ACVM
- Wow/flutter meter
- Oscilloscope
- Torque meter
- DCVM

MECHANICAL ADJUSTMENT

"CONFIRMATION OF TORQUES"

Confirm that torques are within the following ratings;

Adjustment item	Ratings	Measurement conditions
TAKE UP torque	35 ± 10 g.cm	Couple the Torque Meter (SRK CT-100M) to the deck in play mode, and read the torque of take up reel's. (While in play, read the center of deflection.)
FF torque	More than 80 g.cm	Set the Torque Meter (SRK CT-100M) to the FF mode, and when it was wound completely, read the torque of take up reel's.
REW torque	More than 80 g.cm	Set the Torque Meter (SRK CT-100M) to the REW mode, and when winding is over, read the torque of supply reel's.
BACK TENSION torque	$2.5^{+1.5}_{-0.5}$ g.cm $2.5^{+1.5}_{-0.5}$ g.cm	Measure the back tension torque with the Torque Meter (CT-W) in play mode.
Pinch roller pressure	460 ± 50 g	Measure the pinch roller pressure to the capstan in play mode.
Tape tension	More than 150 g (Referential rating)	Set the power torque meter and measure the tape tension of pinch roller and capstan in play mode.

• CHECK OF FAST FORWARD AND FAST REWIND TIMES.

Insert a C-60 tape and check to ensure that time of fast forward and fast rewind is less than 75 seconds and that the tape is transported at a constant speed all the way.

• MECHANICAL ADJUSTMENT

Step	Adjustment item	Tape	Instrument required	Mode	Adjustment part	Rating	Remarks
1	Tape speed	MTT-111 3kHz, -10dB (250nwb/m)	Wow/flutter meter or Frequency counter	PB	Semi fixed variable resistor in circuit board of the D.D capstan motor.	3000 +10 Hz PITCH knob → center (0)	This adjustment is possible through the bottom cover (Fig. 17) *Perform adjustment at the center of the test tape length if possible.
2	Wow/flutter	MTT-111 3kHz, -10dB (250nwb/m)	Wow/flutter meter	PB		Less than 0.035% (JIS WRMS)	After the test tape has run about 30 seconds, check that the meter deflects less than 0.035%.
3	Azimuth	MTT-114 10kHz, -10dB (250nwb/m)	ACVM	PB	Azimuth adjustment screw of REC/PB combination head. (Fig. 18)	Set both channel levels to maximum output level and the phase difference between the left and right channels to minimum.	After the adjustment, make sure to apply screw lock paint.
4	Height of erase head guide	Mirror cassette (MC-09)		PB	Height adjustment screw of erase head. (Fig. 18)	Adjust the height position so that the tape runs smoothly.	

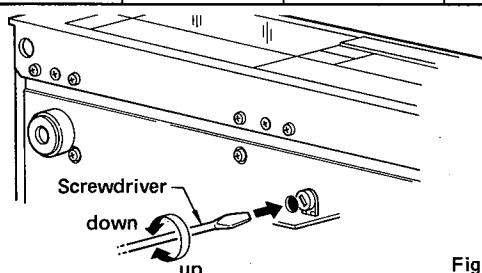


Fig. 17

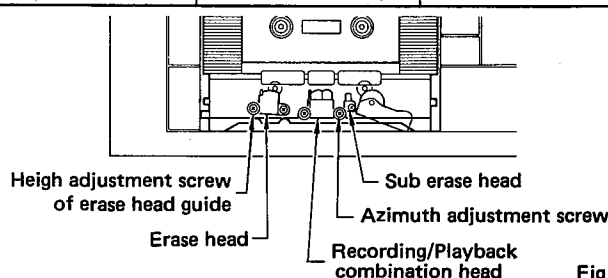


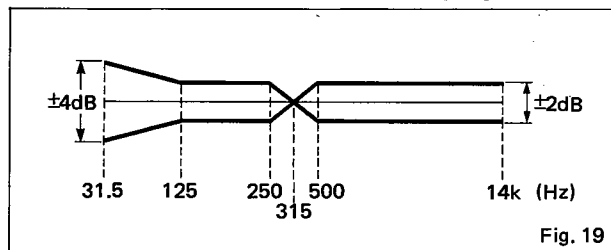
Fig. 18

ELECTRICAL ADJUSTMENT

Perform each adjustment or measurement at THROUGH position of NOISE REDUCTION.

Step	Adjustment item	Tape	Instrument required	Mode	Measurement conditions	Point of measurement	Adjustment part	Rating
1	Playback Amp. offset		DCVM			TP11(Lch) ~E TP12(Rch) ~E	VR119(Lch) VR120(Rch) (OFFSET)	0V $\pm$ 100mV
2	Playback level	MTT-212C 315Hz, 160nwb/m or MTT-212 315Hz, 250nwb/m	ACVM	PB TAPE		LINE OUT	VR113(Lch) VR114(Rch) (PBL)	-6dBV $\pm$ 0.5dBV (500mV $\pm$ 30mV) -2dBV $\pm$ 0.5dBV (794mV $\pm$ 30mV)
3	Playback frequency	Test tape for frequency check. 3180 μ s+120 μ s (LH) 315Hz, -10dB 10kHz, -10dB or MTT-256	ACVM	PB TAPE		LINE OUT	VR111(Lch) VR112(Rch) (PBF)	Check that the 10kHz playback level lies within 0 $\pm$ 1dB of the 315Hz playback level.
4	Playback frequency response confirmation	Test tape for frequency check. 3180 μ s+120 μ s (LH) (MTT-256) 3180 μ s+70 μ s (CrO ₂) (MTT-356)	ACVM	PB TAPE		LINE OUT		Check that the 14kHz playback level lies within 0 $\pm$ 2dB of the 315Hz playback level. (Refer to Fig. 19)
5	Meter		ACVM	REC SOURCE	Apply a 1kHz signal to LINE IN terminals. Set the REC LEVEL knob so that LINE OUT voltage is -6dBV (500mV)		VR117(Lch) VR118(Rch) (METER)	Adjust VR117 and VR118 to the lowest level where the 0dB display part of the level meter light up.
6	Record level	YAMAHA CR60 (CrO ₂)	ACVM	REC	Apply a 1kHz signal to LINE IN terminals. Short TP1 (AUTO OFF) terminals.	LINE OUT	VR805(Lch) VR806(Rch) (REC-L, R)	-6dBV $\pm$ 0.5dBV (500mV $\pm$ 30mV)
7	Record bias	YAMAHA CR60 (CrO ₂)	ACVM	REC TAPE	Apply 1kHz and 15kHz signal to LINE IN terminals at the same interval. Short TP1 terminals.	LINE OUT (-26 dBV)	VR808 (BIAS CR) VR810 (BIAS BALANCE)	15kHz record and playback level lies within 0 $\pm$ 2dB of the 1kHz record and playback level.
		YAMAHA NR60 (LH)	ACVM	REC TAPE	Apply 1kHz and 14kHz signal to LINE IN terminals at the same interval. Short TP1 terminals.	LINE OUT (-26dBV)	VR809 (BIAS-LH)	14kHz record and playback level lies within 0 $\pm$ 2dB of the 1kHz record and playback level.
		YAMAHA MR60 (METAL)	ACVM	REC TAPE	Apply 1kHz and 17kHz signal to LINE IN terminals at the same interval. Short TP1 terminals.	LINE OUT (-26dBV)	VR807 (BIAS-ME)	17kHz record and playback level lies within 0 $\pm$ 2dB of the 1kHz record and playback level.
8	Channel balance		ACVM	REC	Apply a 1kHz, -10dBV signal to LINE IN terminals.	LINE OUT	VR115 (R-GAIN)	When center of REC LEVEL within 0.2dB.

PLAYBACK FREQUENCY RESPONSE

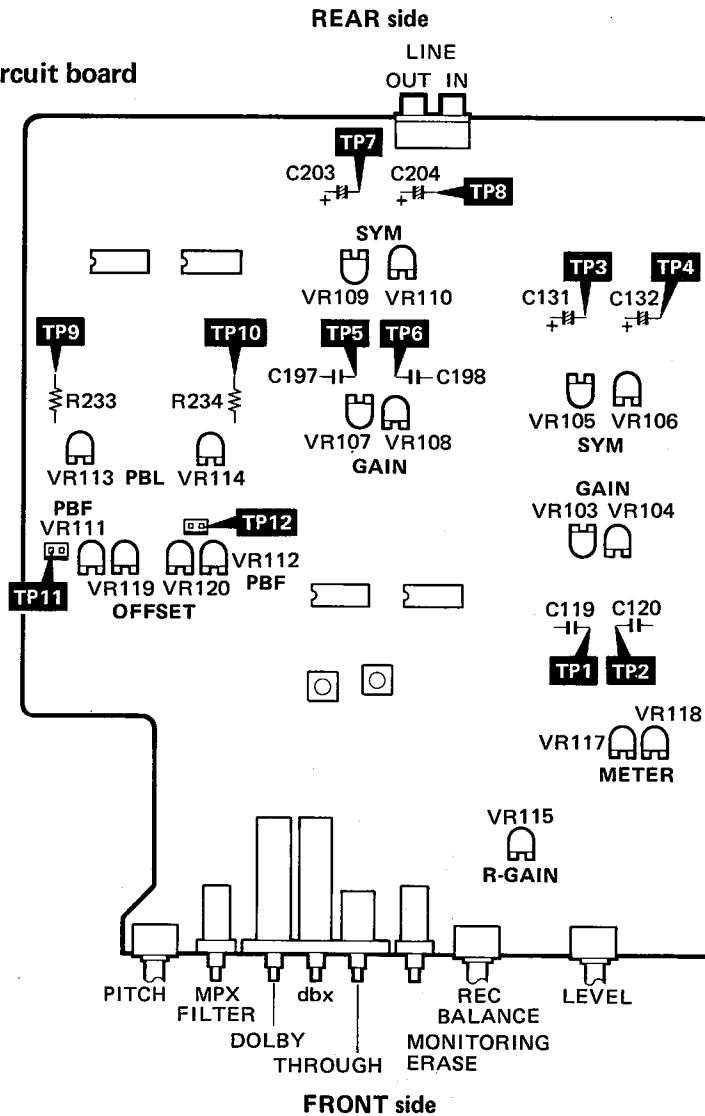


- 2dBV = 794mV = 0.2dBm
- 6dBV = 500mV = -3.8dBm
- 10dBV = 316mV = -7.8dBm
- 21dBV = 89mV = -18.8dBm
- 26dBV = 50mV = -23.8dBm

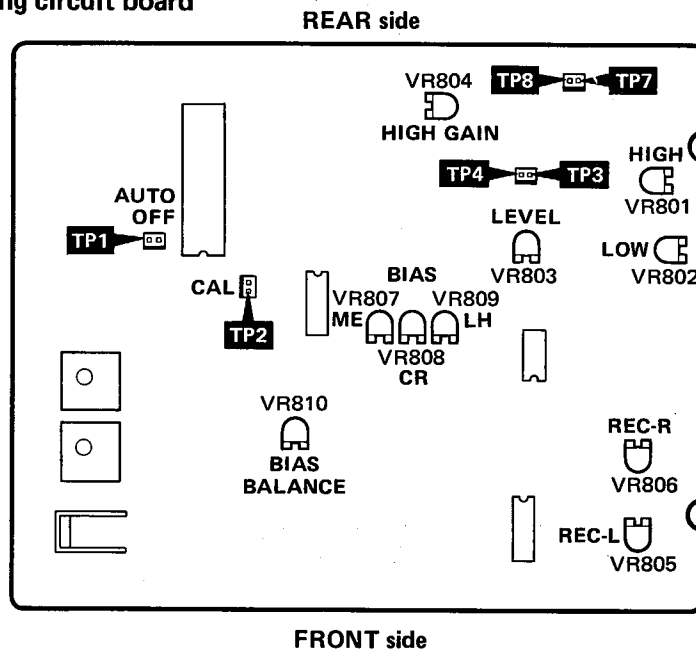
(0dBV = V)

- TEST POINT

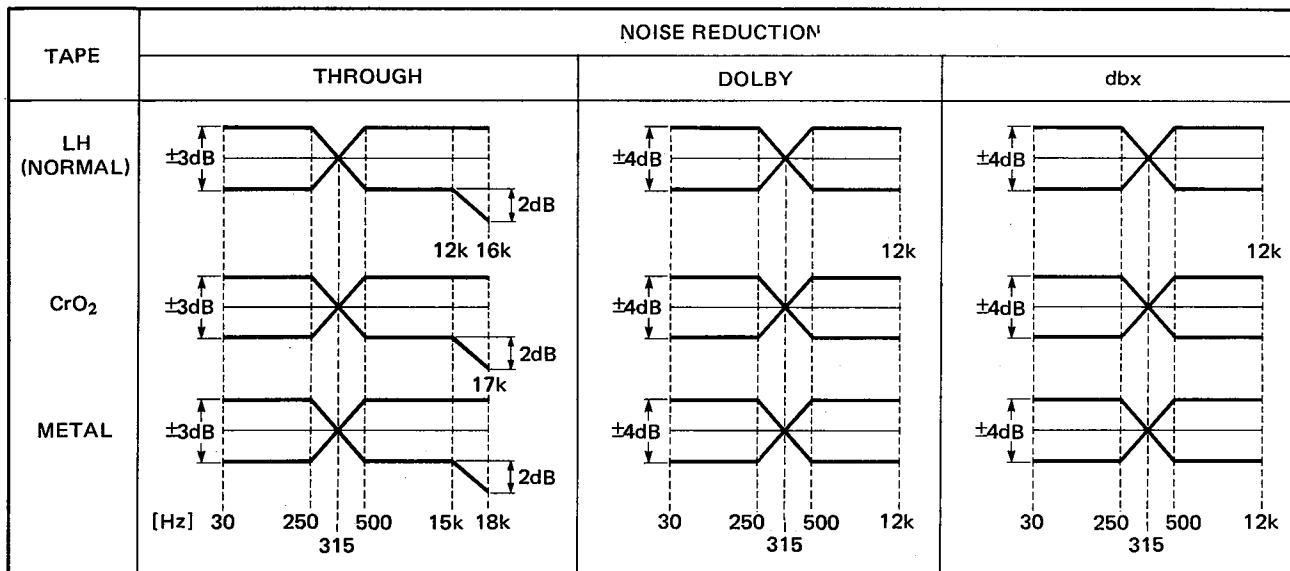
- Main circuit board



- Recording circuit board



TOTAL FREQUENCY RESPONSE



• **dbx ADJUSTMENT**

Perform this adjustment only when dbx system needs to be readjusted.

Step	Adjustment item	Input signal	Instrument required	Measurement conditions	Point of measurement	Adjustment part	Rating
1	dbx output offset (Playback)		DCVM	STOP mode REC LEVEL → Min	TP7 (Lch) TP8 (Rch)	VR109 (Lch) VR110 (Rch) (SYM)	0V ± 10mV
2	dbx gain at playback mode.	TP9 (Lch) TP10 (Rch) 100Hz	ACVM	Apply a 100Hz signal to TP9 and TP10 terminals so that the TP5 (Lch) and TP6 (Rch) becomes to 400mV.	TP7 (Lch) TP8 (Rch)	VR107 (Lch) VR108 (Rch) (GAIN)	400mV ± 10mV
3	dbx output offset (Record)		DCVM	STOP mode REC LEVEL → Min	TP3 (Lch) TP4 (Rch)	VR105 (Lch) VR106 (Rch) (SYM)	0V ± 10mV
4	dbx gain at record mode	LINE IN 100Hz	ACVM	Apply a 100Hz signal to LINE IN terminals so that the TP1 (Lch) and TP2 (Rch) becomes to 400mV	TP3 (Lch) TP4 (Rch)	VR103 (Lch) VR104 (Rch) (GAIN)	400mV ± 10mV

• **ORBiT (Optimum Record Bias Tuning) ADJUSTMENT**

Proceed with the ORBiT adjustments after having finished the total frequency response adjustment and confirmation.

Step	Adjustment item		Tape	Instrument required	Mode	Measurement conditions	Point of measurement	Adjustment part	Rating
1	OSC output	10kHz		ACVM Frequency counter	STOP	Short TP2 terminals one time.	TP3	VR801 (HIGH)	5V ± 0.1V (10kHz ± 2kHz)
		1kHz					TP4	VR802 (LOW)	5V ± 0.1V (1kHz ± 200Hz)
2	ORBiT	1kHz level	YAMAHA CR60 (CrO ₂)	ACVM			TP8	VR803 (LEVEL)	2.5V ± 50mV
		10kHz level					TP7	VR804 (HIGH GAIN)	2.5V ± 50mV

Adjusting ORBiT, TEST indicator continue to light. After the adjustment, once turn the power switch off and turn it on again. Confirm that the α ORBiT indicator changes TEST to TUNED when REC.

● α ORBIT SELF TEST

The following items are set by SELF TEST movements.
It is able to advance the steps with being shorted TP2 (CAL) terminals repeatedly.

(Note) Jumping may be occurred by chattering. In order to avoid the chattering it is recommended to provide the circuit like fig. 20 and to check the following items.

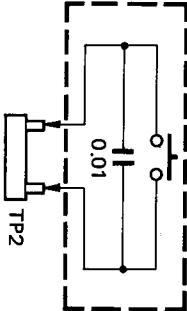
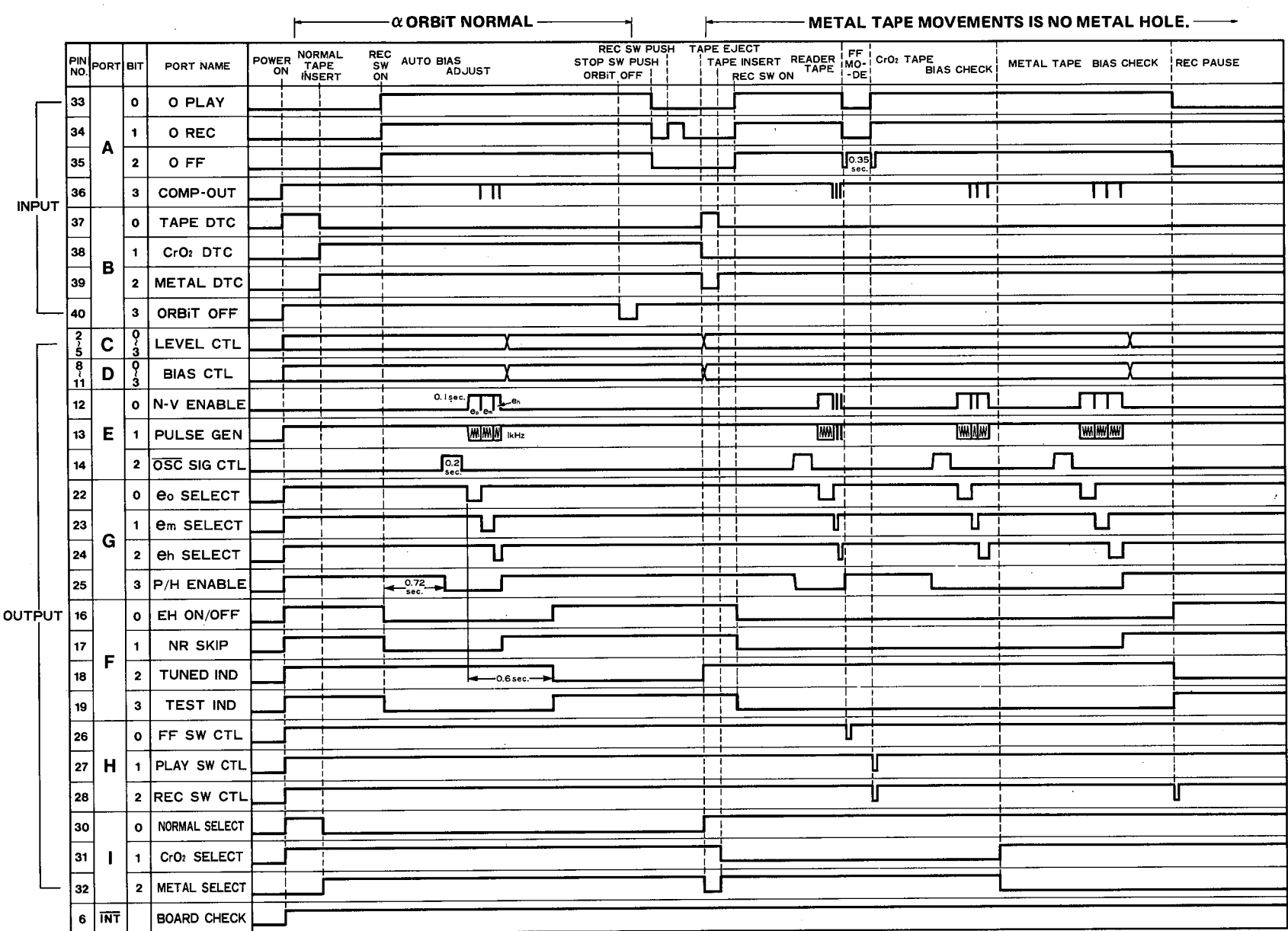


Fig. 20

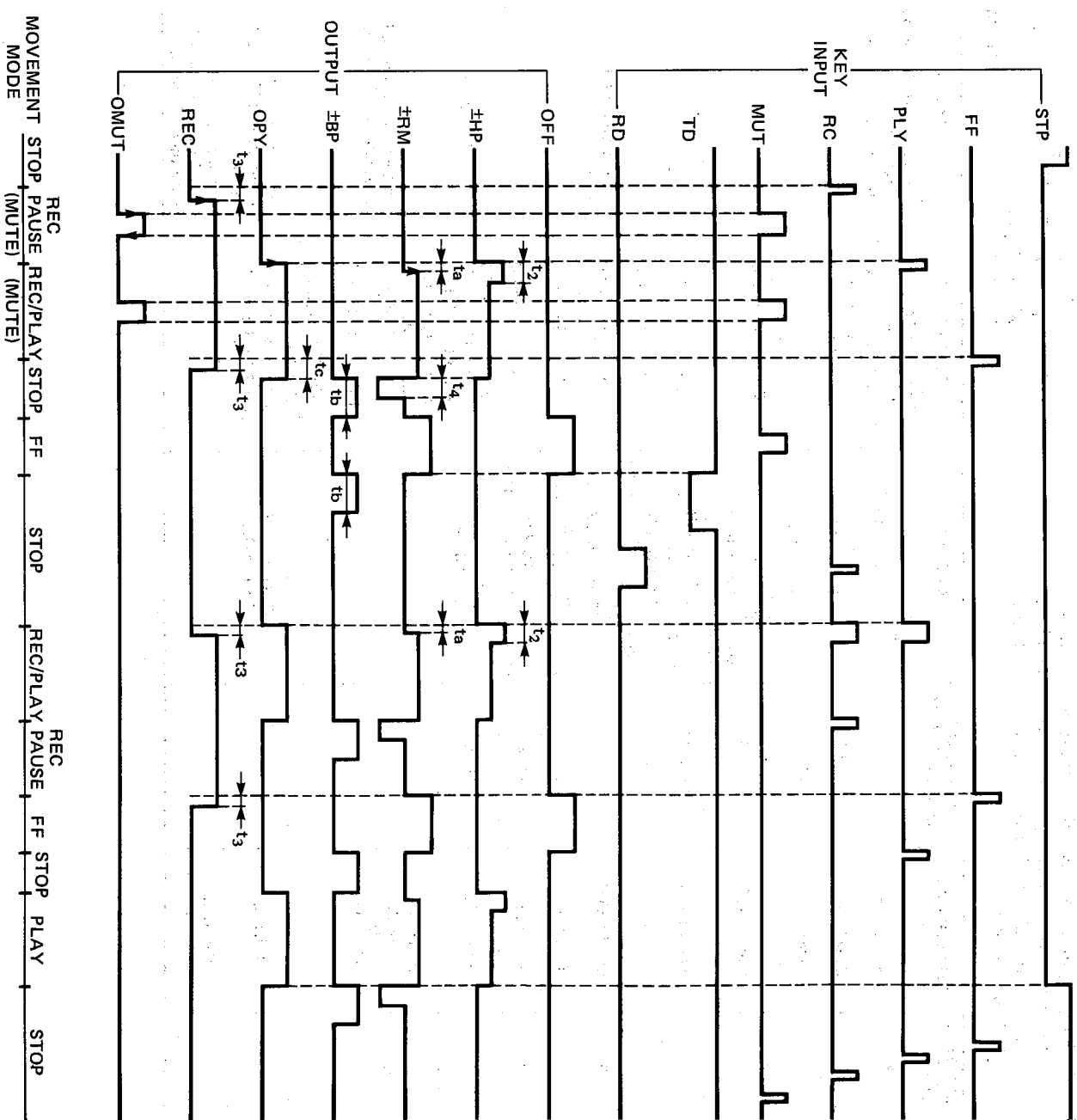
SELF TEST STEP	ITEM CHECKED	POINT OF MEASUREMENT	RATING	IC OUTPUT	REMARKS
1	Ref Volt	TP9	DC $+3.5V \pm 0.1V (e_0)$	REC C $\rightarrow$ ON ("L") OSC $\rightarrow$ ON ("H")	Load a YAMAMHA CR60 (CrO ₂ tape). In REC PLAY mode.
	Select : e_0			EH, NR, PH, $e_0 \rightarrow$ ON ("L")	
2	Select : e_m	TP10	DC $+3.5V \pm 0.5V$	$e_0 \rightarrow$ OFF ("H") $e_0 \rightarrow$ ON ("L")	
	Select : e_h	TP10	DC $+3.5V \pm 0.5V$		
3	Level : STD	TP11, 12	AC $82mV \pm 5mV$ (Recording level of test signal.)	$e_m \rightarrow$ OFF ("H") $e_h \rightarrow$ ON ("L")	
4	Level : Min	TP11, 12	$-2.7 \pm 0.3dB$ (Level: Level ratio of STD)	L (0 $\sim$ 3) = 111	
5	Level : Max	TP11, 12	$+1.8 \pm 0.3dB$ (Level: Level ratio of STD)	L (0 $\sim$ 3) = 0000	
6	Level : STD	TP11, 12	AC $82mV \pm 5mV$	L (0 $\sim$ 3) = 1001	Condition is back to STEP 3.
7	Bias : Max	TP14	$+0.8 \pm 0.1dB$ (Level: Level ratio of STD)	B (0 $\sim$ 3) = 1111	
8	Bias : Min	TP14	$-1.7 \pm 0.2dB$ (Bias : Level ratio of STD)	B (0 $\sim$ 3) = 0000	
9	Bias : STD	TP14	AC $1V \pm 0.3V$	B (0 $\sim$ 3) = 1010 $e_h \rightarrow$ OFF ("H") $e_0 \rightarrow$ ON ("L") N-V $\rightarrow$ ON ("H") PLS $\rightarrow$ ON (f=1kHz) FF. C $\rightarrow$ ON ("L") REC C $\rightarrow$ ON ("L") PLAY C $\rightarrow$ ON ("L")	f = 200kHz
10	A-D Conv Check & FF Check				Output level from PLS is decided by e_0 level.
11	TUNED		TEST $\rightarrow$ OFF OPT $\rightarrow$ ON	REC C $\rightarrow$ ON ("L") TUNED $\rightarrow$ lights ("L")	SELF TEST is completed. (In REC PAUSE mode.)
12	NORMAL MODE				Getting out of SELF TEST routine, normal movements is active.

■TIMING CHART

● AUTO BIAS TIMING CHART (IC811: LM6405-150)



● FOUNDATION MOVEMENTS
Set the AUTO FUNCTION to OFF position.



Terms and symbols

STP : Stop

FF : Fast forward

PLY : Play

RC : Recording

MUT : Muting

TD : Tape detector

RD : Record inhibit detector

t₁ : 0.1 sec.

t₂ : 0.3 sec.

t₃ : 0.01 sec.

t₄ : 0.04 sec.

t_a : 0.1 sec.

t_b : 0.2 sec.

t_c : 0.05 sec.

HP : Head plunger

RM : Rec mute

BP : Break plunger

OPY : Play out

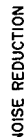
OMUT : Muting out

LM : Line mute

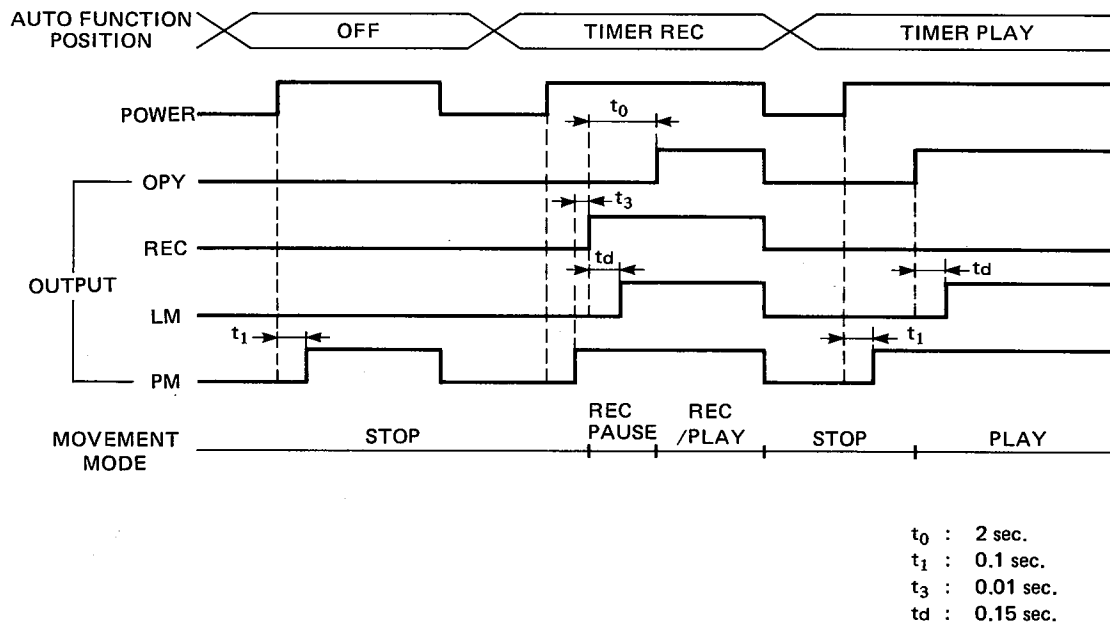
MEM : Memory

INT : Interrupt

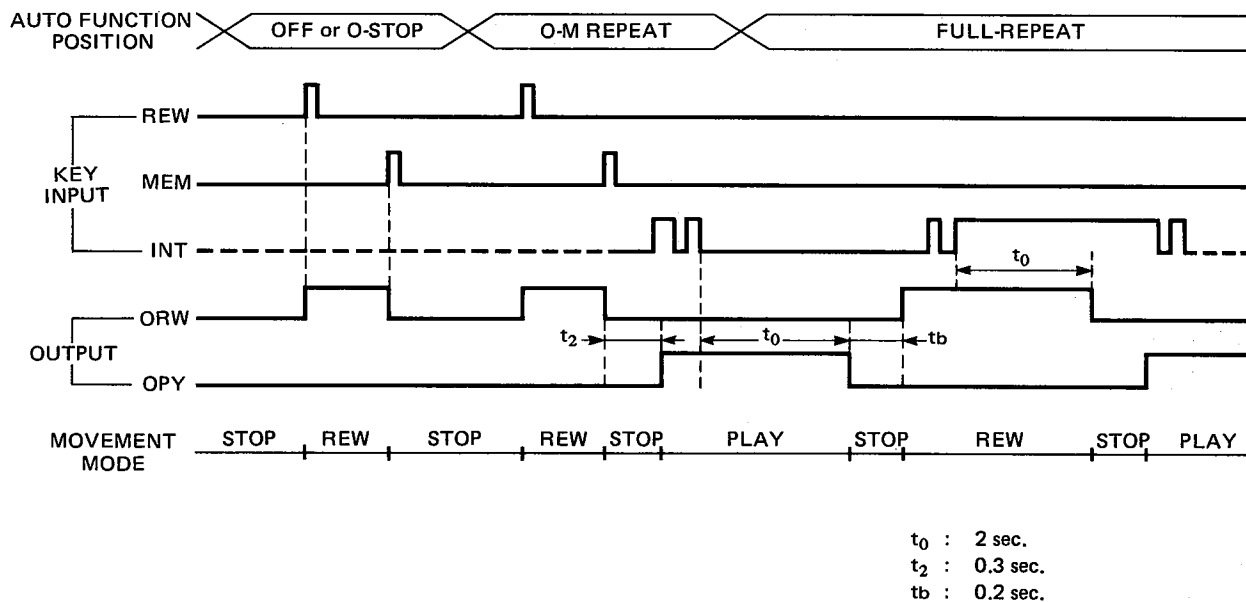
ORW : Rewind out



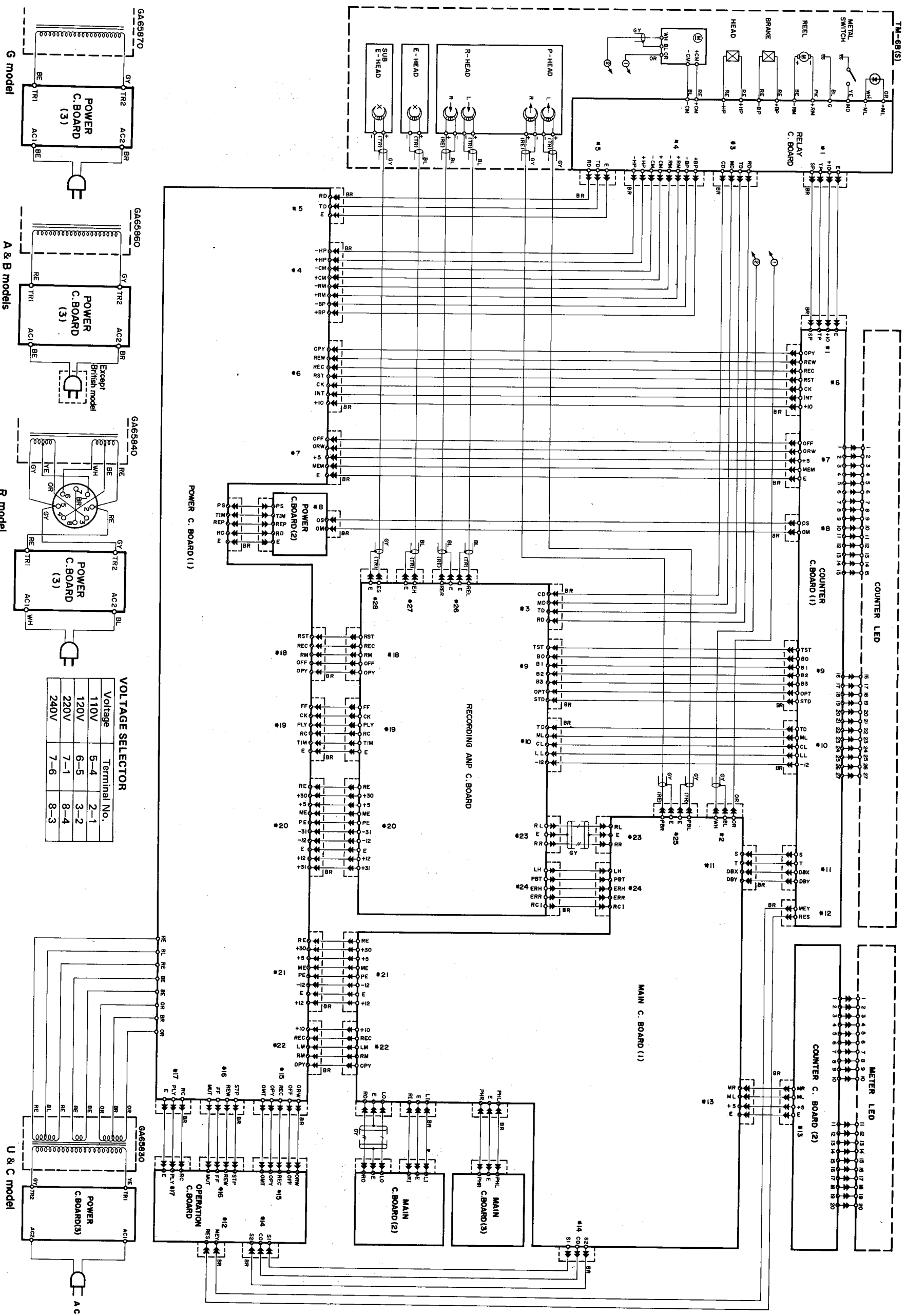
• TIMER MOVEMENT



• MEMORY & REPEAT MOVEMENT

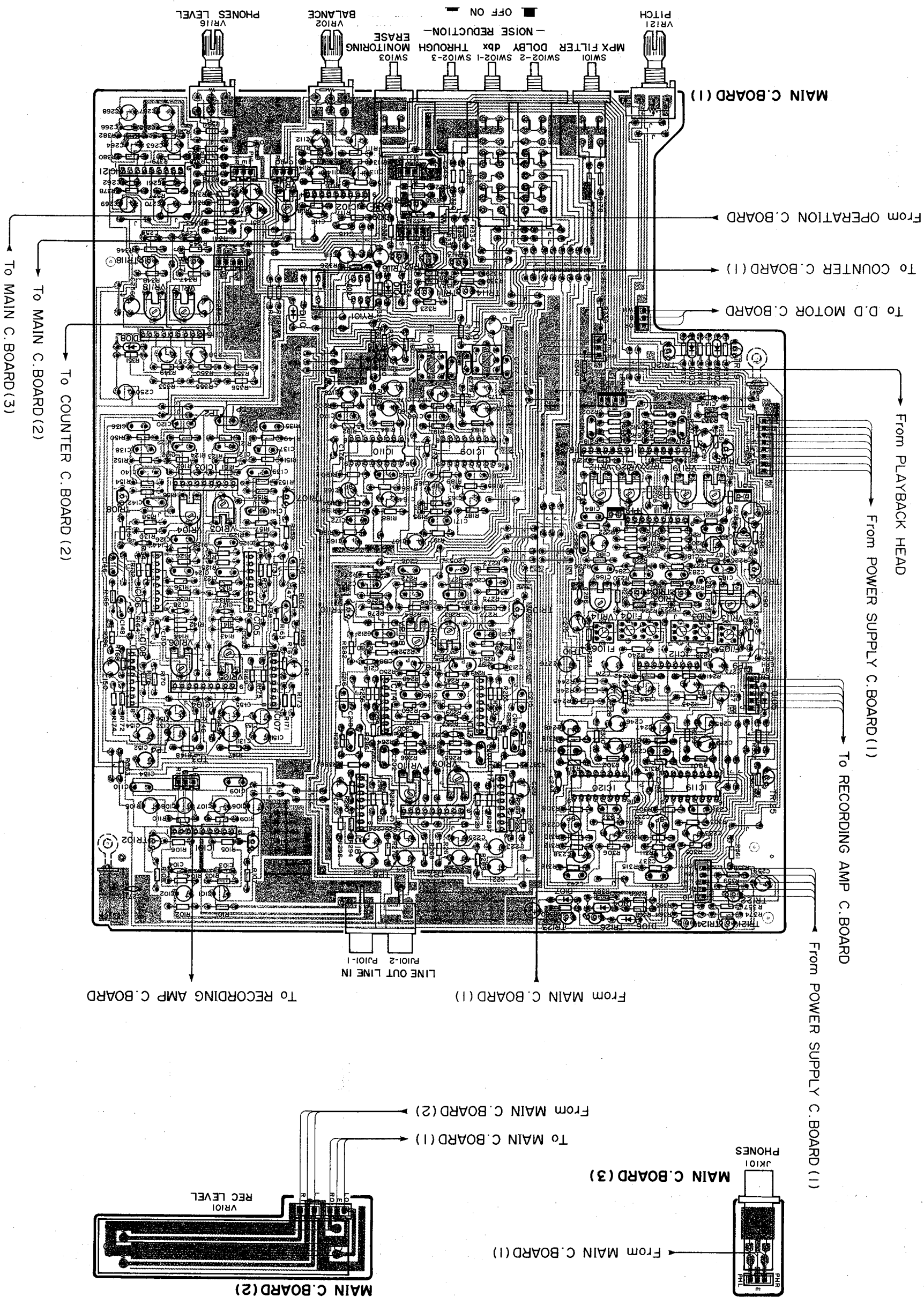


Note) AUTO STOP and AUTO REPEAT act after 2 second (t_0) when INT signal changes last.
(Cycle of INT signal's repeat should be more than 12 msec.)

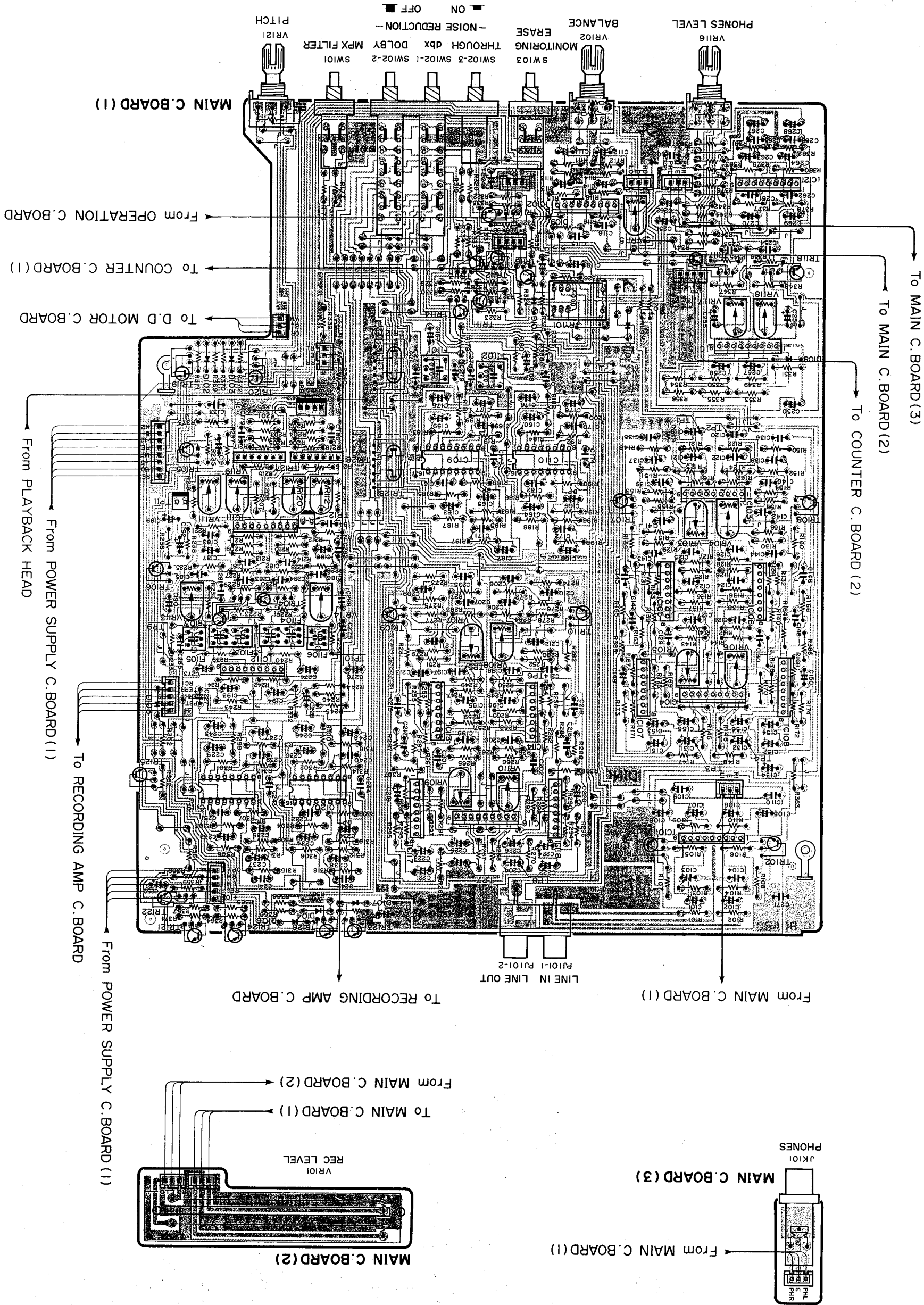


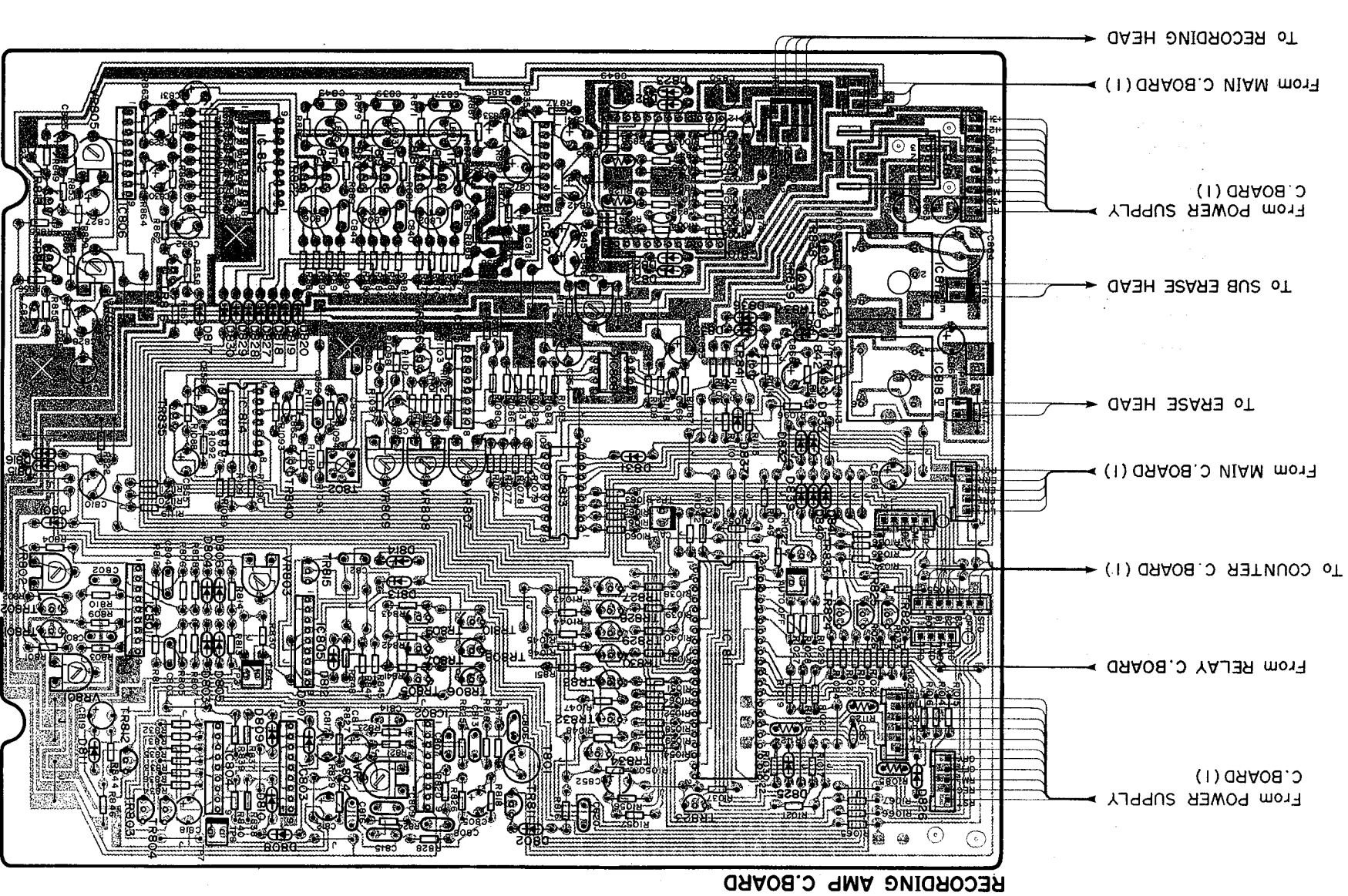
PRINTED CIRCUIT BOARD

<Main circuit board> Parts side

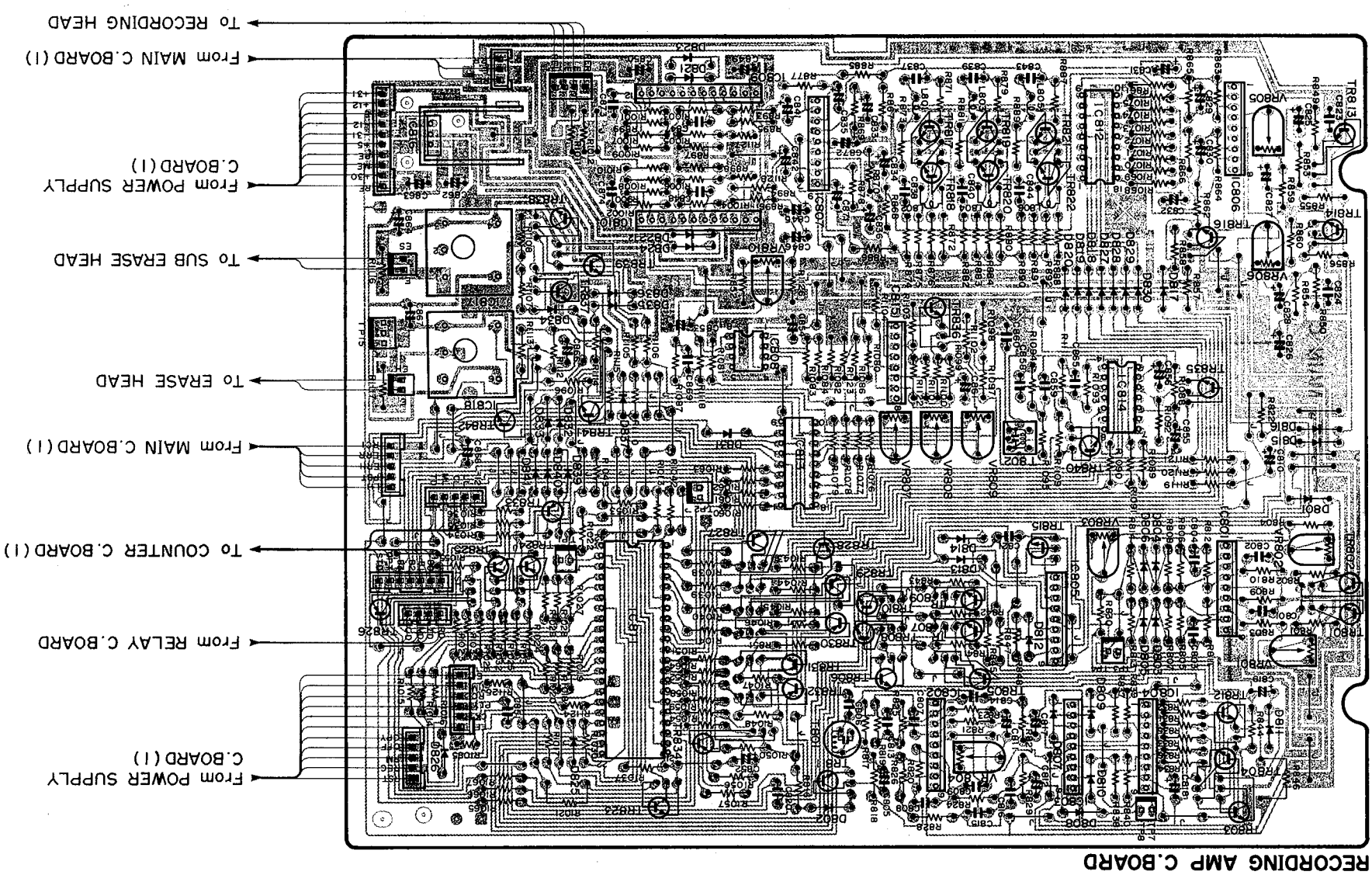


<Main circuit board> Pattern side

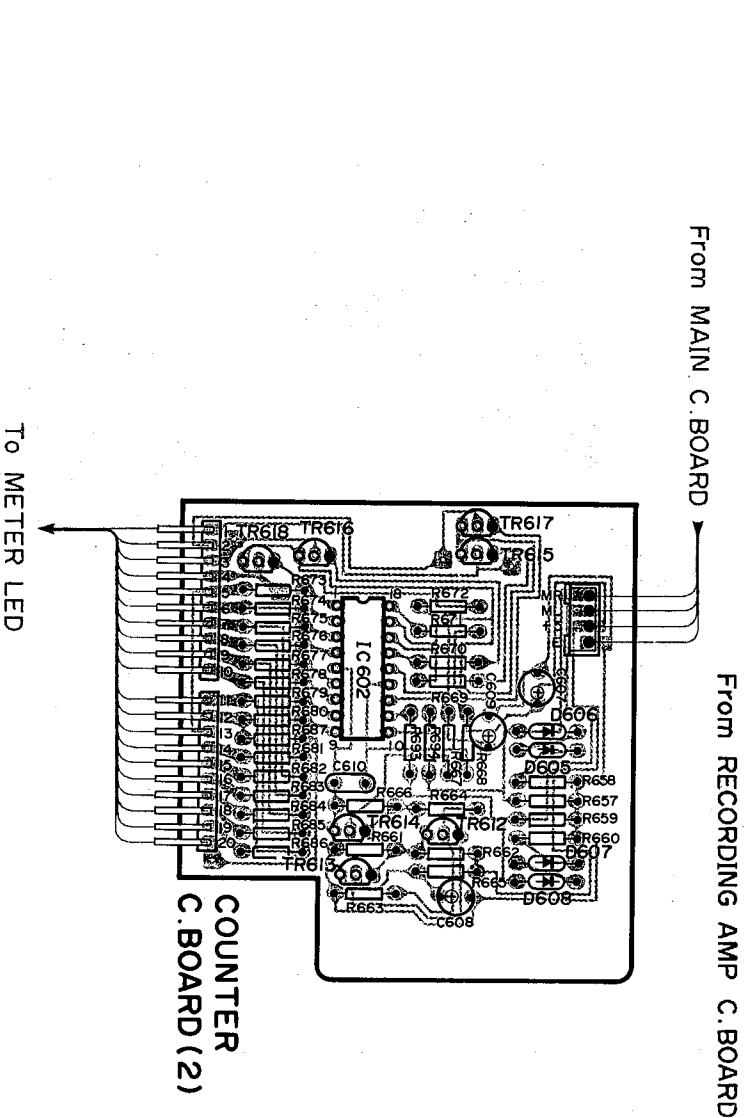
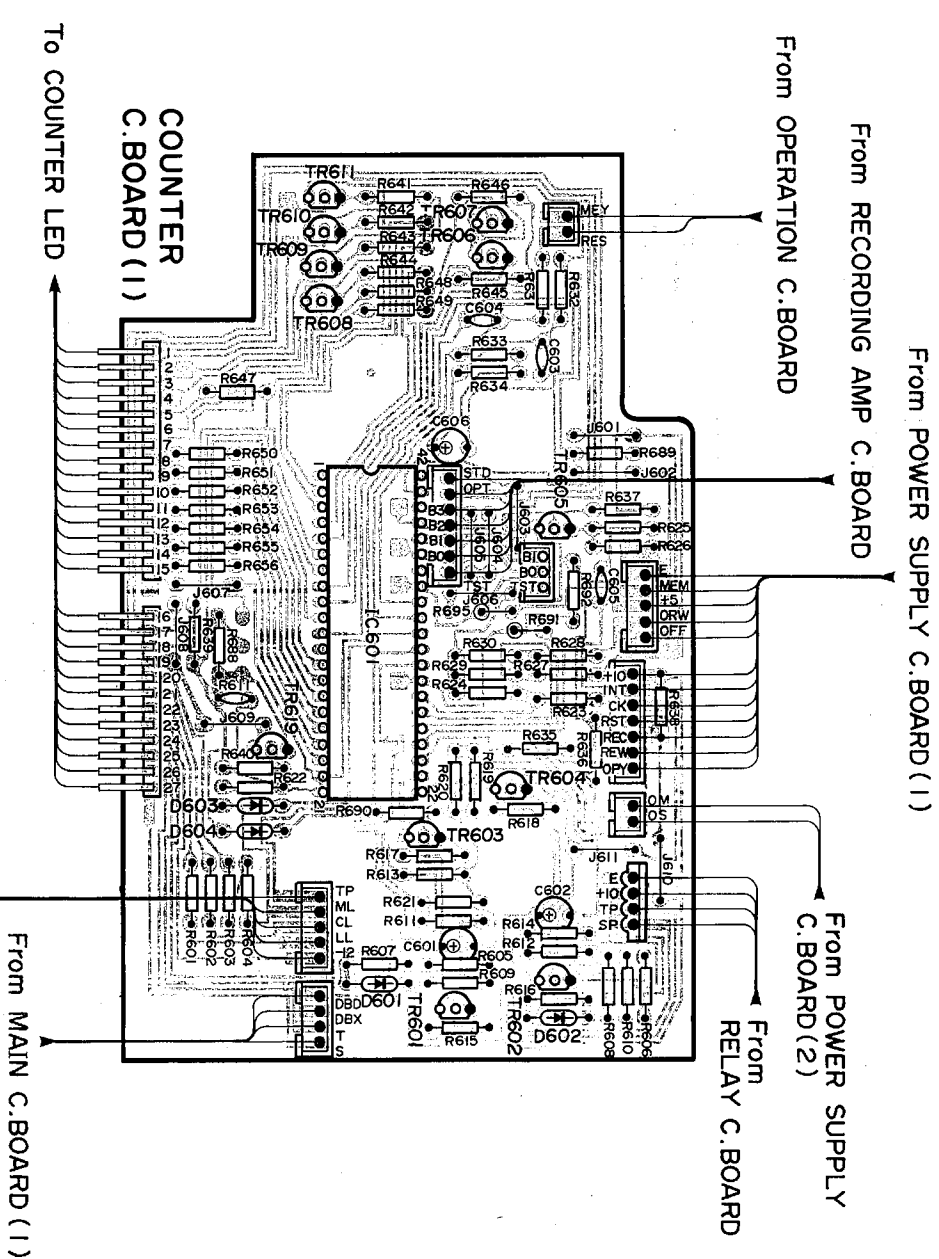


< Record circuit board >
Parts side

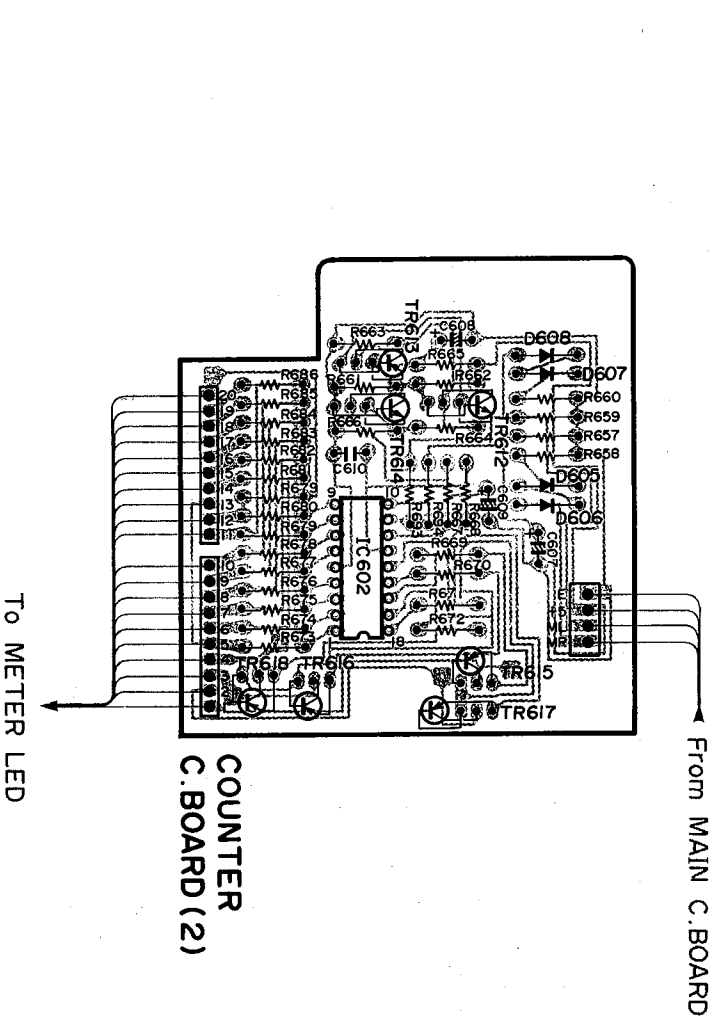
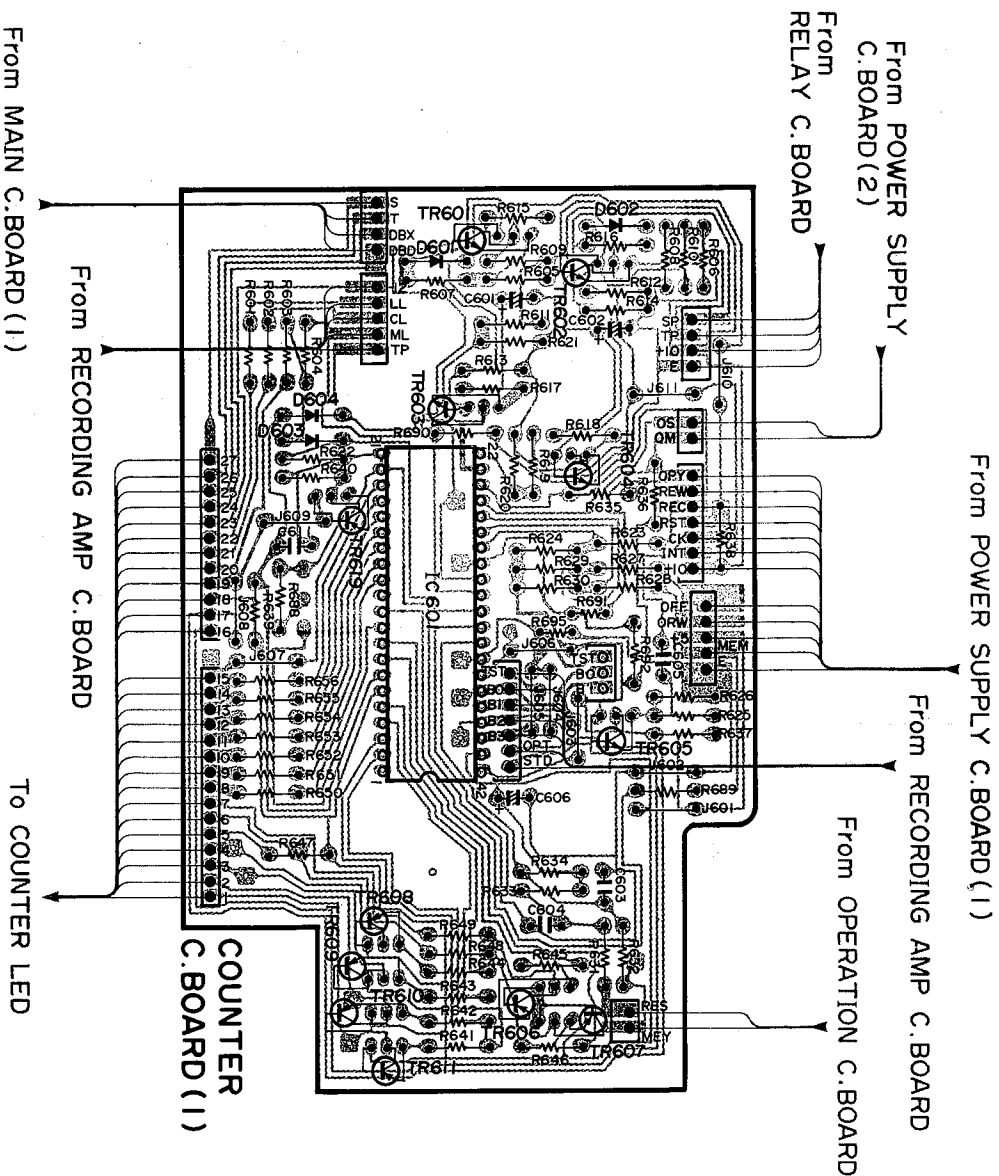
Pattern side



<Counter circuit board>
Parts side

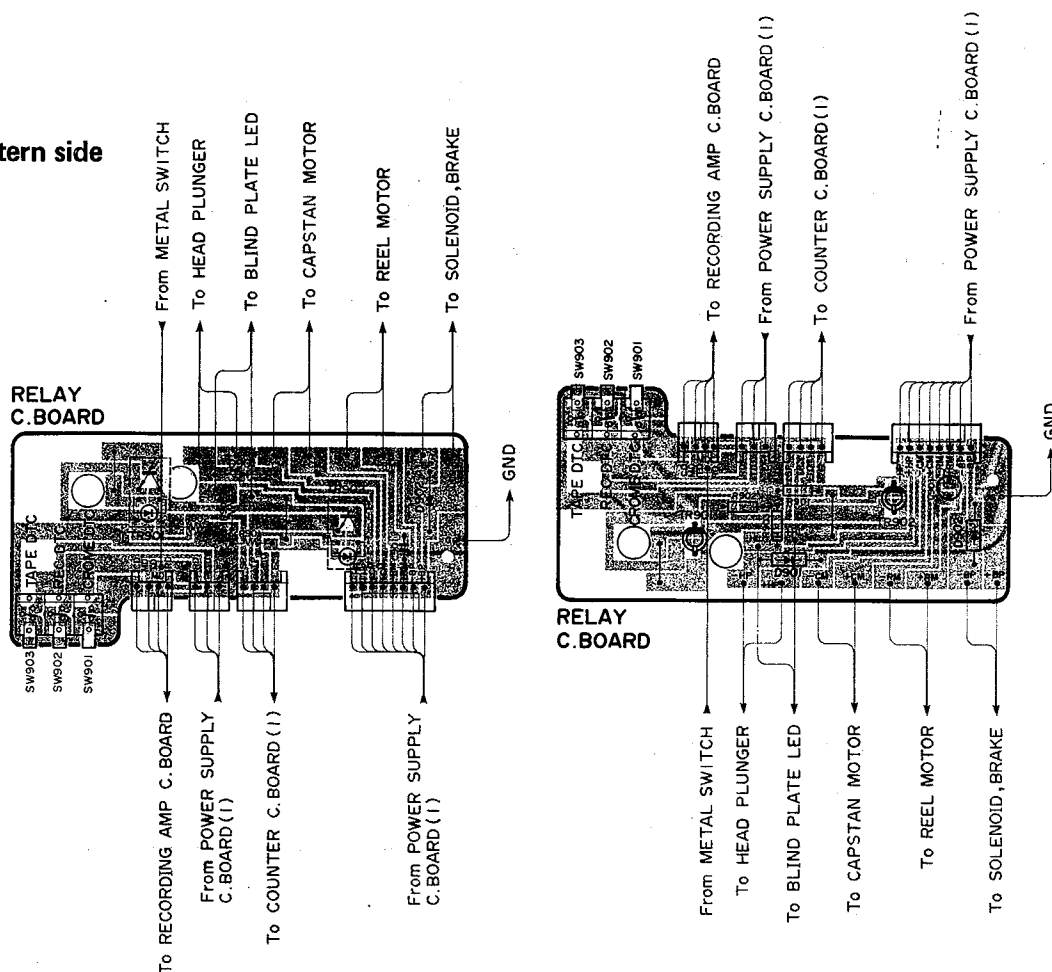


Pattern side



<Relay circuit board>

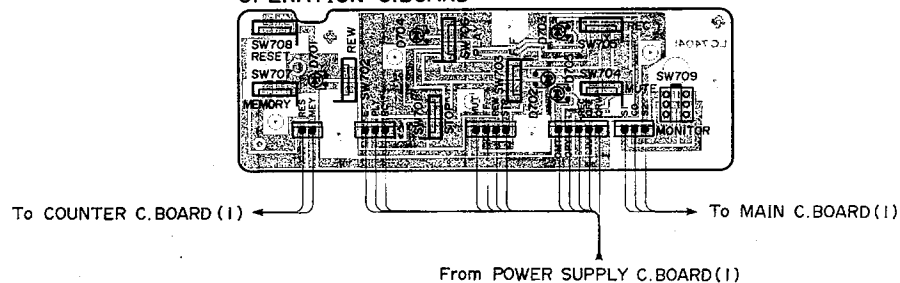
Pattern side



<Operation circuit board>

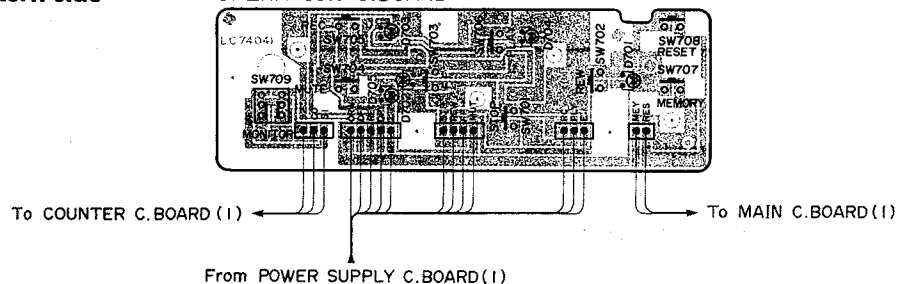
Parts side

OPERATION C. BOARD

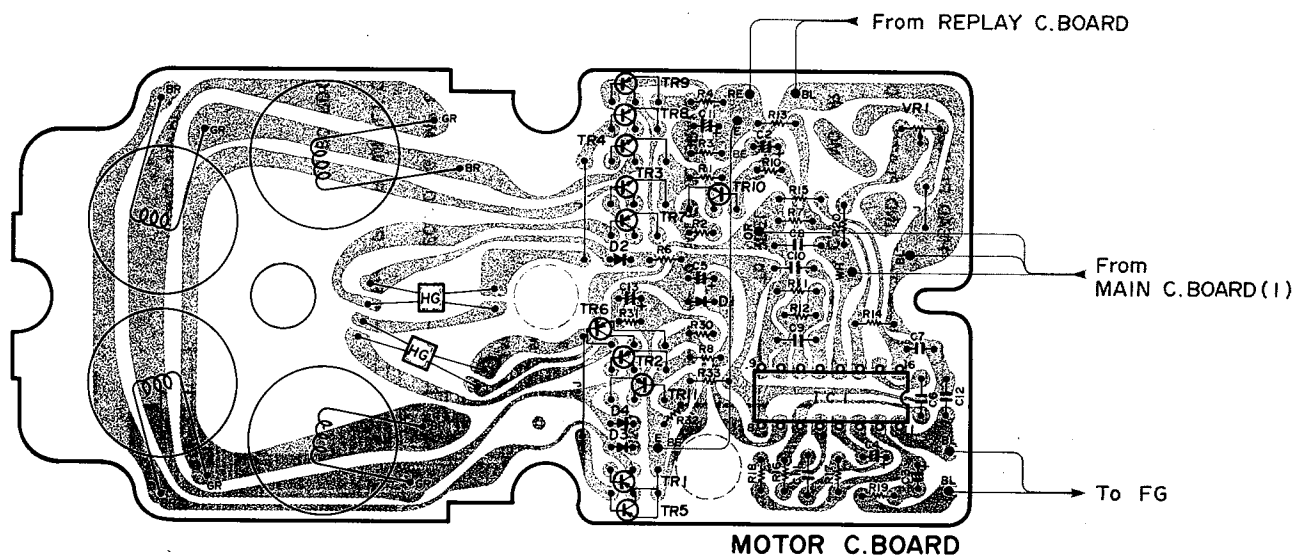


Pattern side

OPERATION C. BOARD

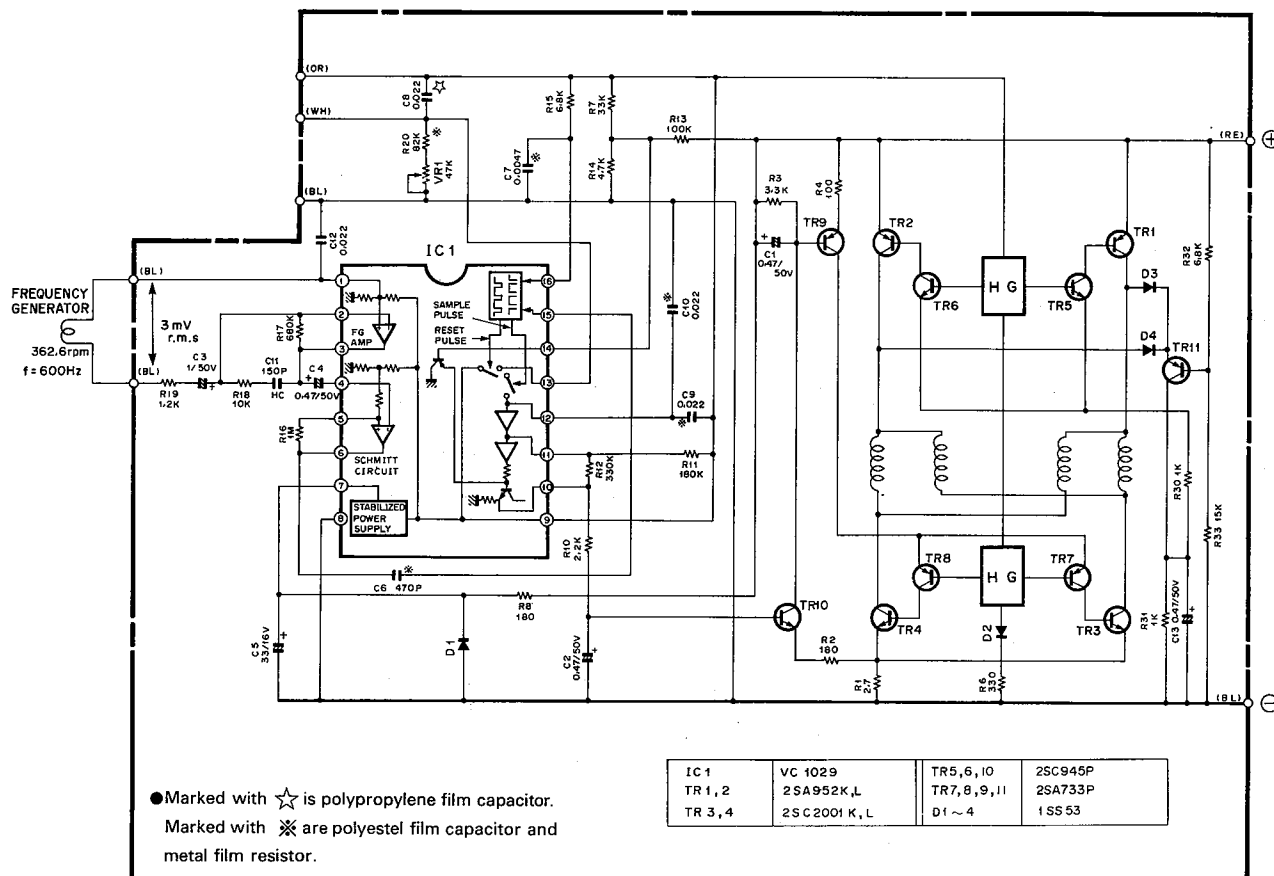


<D.D. Motor circuit board> Pattern side



SCHEMATIC DIAGRAM <D.D Motor>

MOTOR CIRCUIT BOARD (JC00073)



PARTS LIST

■WARNING

UL Standard 1270 requires that components marked Δ be replaced with parts having specifications equal to those originally installed.

• Carbon resistors of this cassette deck are $\frac{1}{4}W$.

There is no description about them in this parts list.

Use the "Part No." HJ350000 or equivalent.

■ELECTRICAL PARTS

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets
※	NA 08 00 40	Main Circuit Board	Silver	メ イ ン シ ー ト		J,R,A,G,B
※	NA 08 00 50	"	"	"		U,C
※	NA 08 00 60	"	Black	"		J,R,A,G,B
※	NA 08 00 70	"	"	"		U,C
	FG 41 21 00	Ceramic Cap.	100pF 50V	セ ラ コ ン	C115,116,127~130,199, 200,261,262,265,266	
	FG 41 23 30	"	330pF 50V	"	C143,144,213,214,285,286	
	FG 41 24 70	"	470pF 50V	"	C173,174,243,244	
	FG 41 22 20	"	220pF 50V	"	C103,104	
	FG 41 25 60	"	560pF 50V	"	C253,254	
	FG 41 32 20	"	2200pF 50V	"	C181,182	
	FG 44 41 00	"	0.01 μ F 50V	"	C133,271	
	FG 44 44 70	"	0.047 μ F 50V	"	C260	
※	FT 55 22 00	Polypropylene Cap.	200pF 50V	ポ リ プ ロ コ ン	C197,198	
	FA 15 31 20	Mylar Cap.	1200pF 50V	マ イ ラ ー コ ン	C179,180	
	FA 15 31 30	"	1300pF 50V	"	C283,284	
	UA 25 32 20	"	2200pF 50V	"	C109,110,169,170,239,240	
	UA 25 31 50	"	1500pF 50V	"	C281,282	
	UA 25 33 30	"	3300pF 50V	"	C139~142,209~212	
	UA 25 33 90	"	3900pF 50V	"	C185,186,277~280	
	UA 25 41 00	"	0.01 μ F 50V	"	C125,126,147,148,201,202, 217,218	
	UA 25 41 20	"	0.012 μ F 50V	"	C161,162,183,184,231,232	
	UA 25 41 80	"	0.018 μ F 50V	"	C171,172,241,242	
	UA 25 51 00	"	0.1 μ F 50V	"	C119~122,135~138,145, 146,205~208,215,216	
	FA 15 53 00	"	0.3 μ F 50V	"	C123,124,195,196	
	UK 14 64 70	Electrolytic Cap.	4.7 μ F 25V	B P コ ン	C165,166,235,236	
	UW 56 53 30	"	0.33 μ F 50V	ケ ミ コ ン	C175,176,245,246	
	UW 91 74 70	"	47 μ F 6.3V	"	C113,114	
	UW 91 81 00	"	100 μ F 6.3V	"	C259,273,274	
	UW 93 71 00	"	10 μ F 16V	"	C117,118,131,132,155~160,203,204, 225,226,229,230,250,255,256	
	UW 93 72 20	"	22 μ F 16V	"	C107,108,153,154,163,164,193,194, 223,224,227,228,233,234,263,264,	
	UW 93 73 30	"	33 μ F 16V	"	C151,152,221,222,269,270, 275,276	
	UW 93 81 00	"	100 μ F 16V	"	C134,191,192,272,	
	UW 94 64 70	"	4.7 μ F 25V	"	C167,168,237,238	
	UW 96 61 00	"	1 μ F 50V	"	C101,102,105,106,111,112,149,150,177,178,219, 220,247~249,251,252,257,258,267,268	
	FV 24 71 00	"	10 μ F 25V	"	C187,188	
	FV 26 61 00	"	1 μ F 50V	"	C189,190	
※	GE 20 04 50	Dolby Filter	200kHz	ドルビーフィルター	Fi101,102	
※	GE 90 08 80	Trap Coil	200kHz	トラップコイル	Fi103,104	
※	GE 90 10 10	Bias Trap Coil	75kHz	バイアストラップコイル	Fi105,106	
	HL 31 54 70	Metal Oxide Film Resistor	470 Ω 1P	酸 金 抵 抗	R331	
※	HZ 00 27 70	Carbon Composition Resistor	22M Ω	ソ リ ッ ド 抵 抗	R385~388	
※	HQ 40 02 00	Slide Variable Resistor	A5k Ω $\times$ 2	ス ラ イ ド V R	VR101 REC LEVEL	
※	HS 41 16 90	Variable Resistor	10k Ω CC	可 変 抵 抗 器	VR102 BALANCE	
※	HS 41 17 00	"	A50k Ω $\times$ 2	"	VR116 PHONES LEVEL	
※	HS 41 17 10	"	B10k Ω CC,CT	"	VR121 BIAS	
	HT 37 01 50	Semi Variable Resistor	B100 Ω	半 固 定 抵 抗	VR119,120	
	HT 37 00 40	"	B500 Ω	"	VR115	

※ New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets
	HT 37 00 60	Semi Variable Resistor	B2kΩ	半 固 定 抵 抗	VR117,118	
	HT 37 00 20	"	B10kΩ	"	VR103,104,107,108,111~114	
	HT 37 01 00	"	B50kΩ	"	VR105,106,109,110	
	IA 09 99 10	Transistor	2SA999(E,F)	ト ラ ン ジ ス タ	TR106,123,124,126	Inter-
	IA 11 27 00	"	2SA1127(R,S,T)	"	" "	changeable
	IC 23 20 10	"	2SC2320(E,F)	"	TR101~105,107~110,115,117,118,121,122,125	Inter-
	IC 26 34 00	"	2SC2634(R,S,T)	"	"	changeable
	IC 26 55 00	"	2SC2655(O,Y)	"	TR116	
※	IC 28 78 00	"	2SC2878	"	TR111~114	
	IE 10 00 20	FET	2SK30A(GR)	F E T	TR119,120	
	IE 10 19 00	Dual FET	„PA68H	デュアル F E T	TR127,128	
	IF 00 00 40	Diode	1S1555	ダ イ オ ー ド	D101~108,110	Inter-
	IF 00 06 70	"	1S2473	"	"	changeable
	IF 00 15 10	Zener Diode	HZ-6C1L	ツェナーダイオード	D109	
※	IG 06 23 00	IC	„PC1180C	I C	IC109,110,119,120	
※	IG 06 24 00	"	„PC1253H2	"	IC107,108,117,118	
※	IG 06 25 00	"	„PC1252H2	"	IC105,106,113,114	
※	IG 07 49 00	"	BA6138	"	IC115	
※	IG 07 68 00	"	NJM4558S	"	IC103,104,111,112,116	
※	IG 08 02 00	"	NJM2043S	"	IC101,102	
※	IG 07 74 00	"	NJM4556S	"	IC121	
	KA 80 28 20	Push Switch		プッシュスイッチ	SW101 MPX FILTER	
※	KA 80 31 50	"		"	SW103 MONITORING ERASE	
※	KA 80 31 60	"		"	SW102 NOISE REDUCTION	
	KC 00 12 90	Relay	HB 24V	リ レ ー	RY101	
※	LB 30 16 80	Phone Jack	HLJ0520 White	ホ ー ン ジャ ッ ク	JK101	J,R,U,A,G,C,B
※	LB 30 16 90	"	" Black	"	"	G
※	LB 40 10 30	Pin Jack	4P	ピ ン ジャ ッ ク		
	LB 30 07 30	2.5 Pitch Base Pin	TEB3P-SHF	2.5ピッチベースピン		
	LB 40 05 70	"	TEB4P-SHF	"		
	LB 91 20 30	Short Plug	3P i-Type	シ ョ ー ト プ ラ グ		
	LB 91 20 50	"	5P i-Type	"		
	LB 90 20 80	"	8P i-Type	"		
	LB 20 13 90	2.5 Pitch Base Pin	TEB2P-SHF	2.5ピッチベースピン		
	BB 06 62 90	Ground Washer		アースワッシャー		
※	NA 08 01 10	Power Supply Circuit Board		電 源 シ ュ ッ ト		J,R
※	NA 08 01 20	"		"		U,C
※	NA 08 01 30	"		"		G,B
※	NA 08 07 90	"		"		R,A
	FG 41 22 20	Ceramic Cap.	220pF 50V	セ ラ コ ン	C530	
	FG 44 41 00	"	0.01μF 50V	"	C529	

※ New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets
※	FG 44 44 70	Ceramic Cap.	0.047 μ F 50V セ ラ コ ン	C503~505,510		
※	Fi 40 41 00	"	0.01 μ F AC250V (D,E) "	C501		J
※	Fi 41 41 00	"	0.01 μ F VA-1 "	"		R,U,A,G,C,B
	FZ 00 35 70	Capacitor Array	0.01 μ F $\times$ 6 コ ン デ ン サ ア レ イ	C533,534		
※	UW 54 92 20	Electrolytic Cap.	2200 μ F 25V ケ ミ コ ン	C511,517,518		
※	UW 86 91 00	"	1000 μ F 50V "	C514		
	UW 56 52 20	"	0.22 μ F 50V "	C512		
	UW 93 71 00	"	10 μ F 16V "	C507,513 521,522		
	UW 93 72 20	"	22 μ F 16V "	C502		
	UJ 15 92 20	"	2200 μ F 35V "	C506		
	UW 94 81 00	"	100 μ F 25V "	C519,520		
	UW 95 71 00	"	10 μ F 35V "	C527,528		
	UW 85 72 20	"	22 μ F 35V "	C525,526		
	UW 96 61 00	"	1 μ F 50V "	C509		
	UW 96 62 20	"	2.2 μ F 50V "	C508,532		
	UW 86 81 00	"	100 μ F 50V "	C515,516		
	UW 67 81 00	"	100 μ F 63V "	C523,524		
※	UM 05 86 80	"	680 μ F 25V "	C531		
※	GE 90 08 90	OSC. Coil	400KHz 発 振 コ イ ル	L501		
※	HM 55 42 20	Cement Molded Resistor	22 Ω 5P セ メ ン ト 抵 抗	R544		
※	HU 07 61 00	Metal Film Resistor	1k Ω RE35 金 属 被 膜 抵 抗	R550		
※	HZ 00 25 80	Resistor Network	47k Ω $\times$ 6 抵 抗 ネ ッ ト ワ ー ク	R565,566		
※	HZ 00 28 90	Thermistor	112-501-2 サ ー ミ ス タ	Th501		
	iA 09 99 10	Transistor	2SA999(E,F) ト ラ ン ジ ス タ	TR501,508,512	Inter-changeable	
	iA 11 27 00	"	2SA1127(R,S,T) "	"		
	iB 05 07 00	"	2SB507(E,F) "	TR509		
※	iB 08 65 00	"	2SB865 "	TR510,516		
	iC 23 20 10	"	2SC2320(E,F) "	TR502~504,508,511	Inter-changeable	
	iC 26 34 00	"	2SC2634(R,S,T) "	513,515,518~521		
	iC 19 83 00	"	2SC1983 "	TR505		
※	iD 11 53 00	"	2SD1153 "	TR507,514,517		
	iF 00 00 40	Diode	1S1555 ダイ オ ー ド	D504~507,516	Inter-changeable	
	iF 00 06 70	"	1S2473 "	518~521		
	iF 00 15 10	Zener Diode	HZ-6C1L ツ ェ ナ ー ダイ オ ー ド	D511		
※	iF 00 41 80	"	HZ30-3L "	D514,515		
	iH 00 05 90	Diode	10E-1 ダイ オ ー ド	D509,510,512,513,517		
	iH 00 09 70	Diode Bridge	1S2371A ダイ オ ー ド ブ リ ッ ジ	D501~503		
※	iG 07 40 00	IC	BA6109 I C	IC502		
※	iG 07 50 00	"	μ PD554C-083 "	IC501		
※	iG 07 53 00	"	AN78M05 "	IC503	Inter-changeable	
※	iG 07 56 00	"	NJM78M05/A "	"		
※	iG 07 54 00	"	AN78M10 "	IC504	Inter-changeable	
※	iG 07 57 00	"	NJM78M10/A "	"		
※	KA 50 17 80	Rotary Switch	L=20 2-6 ロ ー タ リ ー ス イ ッ チ	SW502 AUTO FUNCTION		
※	KA 80 32 90	Power Switch	SDLC-1P パ ワ ー ス イ ッ チ	SW501		

※ New Parts (新規部品)

Ref. No.	Part No.				Description			部 品 名	Remarks	Common Model	Markets	
	KB	00	03	10	Fuse	T0.5A	250V	ヒ ュ ー ズ	F504,505		J,R,A	△
	KB	00	07	10	"	T500mA	250V	"	"		G,B	△
	KB	00	11	50	"	0.5A	250V	"	"		U,C	△
	KB	00	03	40	"	T1.5A	250V	"	F501		J,R,A	△
	KB	00	07	40	"	T1.6A	250V	"	"		G,B	△
※	KB	00	27	10	"	1.5A	250V	"	"		U,C	△
	KB	00	03	50	"	T2A	250V	"	F502,503		J,R,A	△
	KB	00	07	50	"	T2A	250V	"	"		G,B	△
	KB	00	12	40	"	2A	250V	"	"		U,C	△
※	LB	60	50	30	DIN Jack	8P	12.5	Black	DIN ジャ ッ ク	JK501		
	LA	00	21	40	Wrapping Terminal	P=10	2P	i-Type	i 型 ラ ッ ピ ン 端 子 板			
	LB	20	18	80	Fuse Holder Pin	PC-FH1			ヒ ュ ー ズ ホ ル ダ ー ピ ン			
	LB	91	20	30	Short Plug	3P	i-Type		シ ョ ー ト プ ラ グ			
	LB	91	20	40	"	4P	i-Type		"			
	LB	91	20	50	"	5P	i-Type		"			
	AA	61	35	60	Bracket,Switch				ス イ ッ チ ブ ラ ケ ッ ト	K-1000		
	BA	08	39	90	Heat Sink				放 熱 板	"		
	BA	08	40	00	"				"	"		
	BB	06	62	90	Ground Washer				ア ー ス ワ ッ シ ャ ー			
	Ei	03	00	60	Binding Head Tapping Screw	3×6	ZMC2-Y		バ イ ン ド タ ッ ピ ン グ ネ ジ			
	ED	03	00	40	Binding Head Screw	3×4	ZMC2-Y		バ イ ン ド 小 ネ ジ			
	BA	06	77	80	Radiator				放 熱 器			
※	NA	08	01	50	Counter Circuit Board (02n)	マ ス ミ			カ ン タ ー シ ー ス 板	02n	J,R,A,G,B	
※	NA	08	02	10	"				"	02n	U,C	
	FG	44	41	00	Ceramic Cap.	0.01 μ F	50V	セ ラ コ ン	C603~605,611			
	UA	25	51	00	Mylar Cap.	0.1 μ F	50V	マ イ ラ ー コ ン	C610			
	UW	91	74	70	Electrolytic Cap.	47 μ F	6.3V	ケ ミ コ ン	C606			
	UW	91	82	20	"	220 μ F	6.3V	"	C607			
	UW	93	71	00	"	10 μ F	16V	"	C608,609			
	UW	94	64	70	"	4.7 μ F	25V	"	C601,602			
	HJ	35	51	00	Carbon Resistor	100 Ω	1/4W	カ ー ボ ン 抵 抗	R695			
	HJ	35	71	00	"	10k Ω	"	"	R691			
	iA	09	99	10	Transistor	2SA999(E,F)		ト ラ ン ジ ス タ	TR608,607,613,619	Inter-changeable		
	iA	11	27	00	"	2SA1127(R,S,T)		"	"			
※	iB	05	98	00	"	2SB598(E,F)		"	TR608~611,615~618			
	iC	23	20	10	"	2SC2320(E,F)		"	TR601~605,612,614	Inter-changeable		
	iC	26	34	00	"	2SC2634(R,S,T)		"	"			
※	iG	07	51	00	IC	LM6402A-108		I C	IC601			
※	iG	07	52	00	"	MSL9350RS		"	IC602			
	iF	00	00	40	Diode	1S1555		ダ イ オ ー ド	D601~608	Inter-changeable		
	iF	00	06	70	"	1S2473		"	"			
※	LB	60	09	60	Connector Pin	10Pin	L-Type	L 型 コ ネ ク タ ー ピ ン				
※	LB	60	09	90	"	12Pin	L-Type	"				
※	LB	60	10	30	"	15Pin	L-Type	"				
	LB	91	20	20	Short Plug	2P	i-Type	シ ョ ー ト プ ラ グ				

※ New Parts (新規部品)

Ref. No.	Part No				Description		部 品 名	Remarks	Common Model	Markets
	LB	91	20	40	Short Plug	4P i-Type	シ ョ ー ト プ ラ グ			
	LB	91	20	50	"	5P i-Type	"			
	LB	91	20	70	"	7P i-Type	"			
	AA	61	35	70	Holder, Circuit Board		基 板 ホ ル ダ ー			
	CB	60	56	20	Plastic Rivet		プ ラ ス チ ャ ッ ク リ ベ ッ ト			
	Ei	03	00	86	Binding Head Tapping Screw	3×8 ZMC2-Y	バ イ ン ド タ ッ ピ ン グ ネ ジ	PACK		
	EV	20	00	36	Plain Washer	φ3 ZMC2-Y	平 座 金	PACK		
※	NA	08	01	70	Operation Circuit Board		オ ペ レ ー シ ョ ン シ ー ト			
	IF	00	23	70	LED	SLR-34GC (Green)	L E D	D701,702,704		
	IF	00	23	80	"	SLR-34URC (Red)	"	D703,705		
※	KA	80	31	70	Push Switch		プ ッ シ ュ ス イ ッ チ	SW 709		
	KA	90	30	10	Switch		タ ク ト ス イ ッ チ	SW 701~708		
	CB	06	88	80	Plastic Rivet		プ ラ ス チ ャ ッ ク リ ベ ッ ト			
	CB	61	36	50	Holder		ホ ル ダ ー			
※	NA	08	01	80	Recording Amp. Circuit Board		録 音 ア ン プ シ ー ト			
※	NA	08	01	90	"		"			
	FG	41	04	00	Ceramic Cap.	4pF 50V	セ ラ コ ン	C847,848		
	FG	41	11	50	"	15pF 50V	"	C869		
	FG	41	14	70	"	47pF 50V	"	C865		
	FG	41	11	00	"	10pF 50V	"	C873,874		
	FG	41	21	00	"	100pF 50V	"	C823,824		
	FG	41	31	00	"	1000pF 50V	"	C858		
	FG	44	41	00	"	0.01μF 50V	"	C851		
	FG	44	44	70	"	0.047μF 50V	"	C875,876		
	UA	25	31	00	Mylar Cap.	1000pF 50V	マ イ ラ ー コ ン	C801,803,806,807,859,860		
	UA	25	32	20	"	2200pF 50V	"	C809,813,814		
	UA	25	33	30	"	3300pF 50V	"	C815		
	FA	15	35	10	"	5100pF 50V	"	C839,840		
	FA	15	34	30	"	4300pF 50V	"	C843,844		
	UA	25	36	80	"	6800pF 50V	"	C808,820		
	UA	25	41	50	"	0.015μF 50V	"	C802,804		
	UA	25	41	60	"	0.016μF 50V	"	C816		
	FA	15	53	30	"	0.33μF 50V	"	C821		
	UA	25	35	60	"	5600pF 50V	"	C837,838		
	UW	91	81	00	Electrolytic Cap.	100μF 6.3V	ケ ミ コ ン	C827,828		
	UW	93	71	00	"	10μF 16V	"	C855		
	UW	93	72	20	"	22μF 16V	"	C817~819,861		
	UW	93	73	30	"	33μF 16V	"	C852,856		
	UW	94	71	00	"	10μF 25V	"	C812,841,842,862,866,867,871,872		
	UW	94	82	20	"	220μF 25V	"	C864		
	UW	96	54	70	"	0.47μF 50V	"	C868		
	UW	56	56	80	"	0.68μF 50V	"	C831~834		
	UW	96	61	00	"	1μF 50V	"	C805,811,829,830,835,836,846,848,849,850,853,854,863		
	UW	96	62	20	"	2.2μF 50V	"	C825,826		
	UW	96	63	30	"	3.3μF 50V	"	C810		
	GE	90	02	50	Coil	10mH	コ イ ル	L803,804		
	GE	90	02	40	"	8.2mH	"	L801,802		
	GE	90	04	30	"	15mH	"	L805,806		

※ New Parts (新規部品)

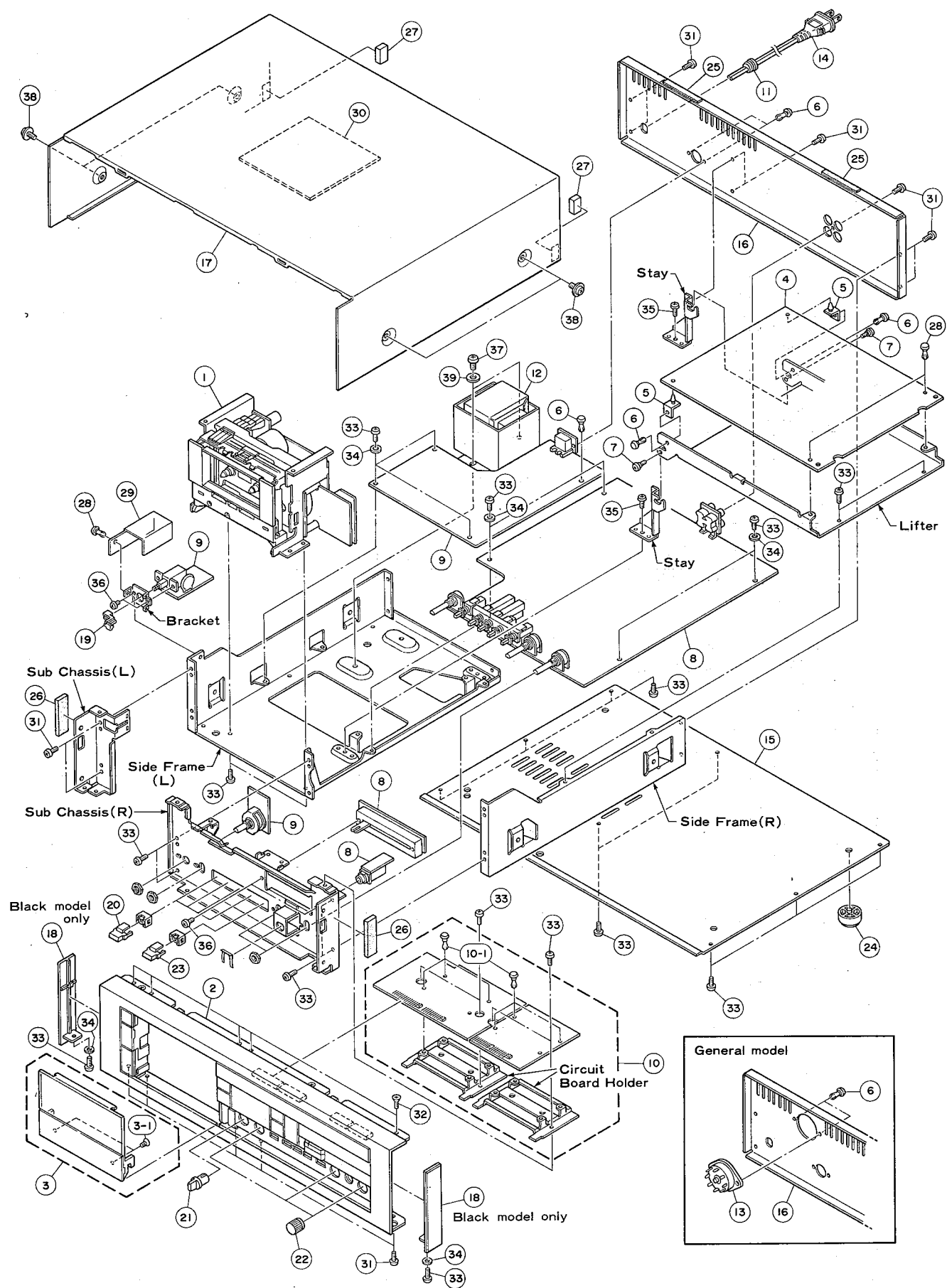
Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets
※	GE 90:09:90	OSC. Coil	600kHz	発 振 コ イ ル	T802	
※	GE 90:10:00	Bias Trap Coil	75kHz	バイアストラップコイル	T801	
	HU 07:63:30	Metal Film Resistor	3.3k Ω RE35	金 属 被 膜 抵 抗	R1127,1128	
	HU 07:71:00	"	10k Ω "	"	R1085,1124,1125	
	HT 37:00:60	Semi Variable Resistor	B2k Ω	半 固 定 抵 抗	VR801~803,808	
	HT 37:00:70	"	B3k Ω	"	VR805~807	
	HT 37:00:40	"	B500 Ω	"	VR810	
	HT 37:01:60	"	B200 Ω	"	VR804	
	HT 37:00:10	"	B1k Ω	"	VR809	
	IA 09:99:10	Transistor	2SA999(E,F)	ト ラ ン ジ ス タ	TR824~834 } Inter-	
	IA 11:27:00	"	2SA1127(R,S,T)	"	" } changeable	
	IC 23:20:10	"	2SC2320(E,F)	"	TR801~812,816~823 } Inter-	
	IC 26:34:00	"	2SC2634(R,S,T)	"	835~842 " } changeable	
※	ID 10:12:00	"	2SD1012(G,H)	"	TR813,814 } Inter-	
	ID 06:55:00	"	2SD655(D,E,F)	"	" } changeable	
	IE 10:00:20	FET	2SK30A(GR)	F E T	TR815	
	IF 00:00:40	Diode	1S1555	ダ イ オ ー ド	D801~837 } Inter-	
	IF 00:06:70	"	1S2473	"	" } changeable	
	IG 02:67:10	IC	HD74LS93	I C	IC814	
	IG 06:25:00	"	PC1252H2	"	IC815	
	IG 06:71:00	"	PC1225H	"	IC809,810	
※	IG 07:48:10	"	LM6405A-150	"	IC811	
※	IG 07:58:00	"	NJM78M20A	"	IC816	
※	IG 08:97:00	Bias OSC. Block	100kHz	バイアス発振ブロック	IC818	
※	IG 07:60:00	"	75kHz	"	IC817	
	IG 07:68:00	IC	NJM4558S	I C	IC801~805	
※	IG 08:30:00	Transistor Array	AN90B70	ト ラ ン ジ ス タ ア レ イ	IC812	
※	IG 08:99:00	"	AN90B20	"	IC813	
※	IG 07:74:00	IC	NJM4556S	I C	IC806,807	
	IG 04:25:00	"	NJM4556D	"	IC808	
	LB 20:13:90	2.5 Pitch Base Pin	TEB2P-SHF	2.5ピッチベースピン		
	LB 40:05:70	"	TEB4P-SHF	"		
	LB 91:20:30	Short Plug	3P	シ ョ ー ト プ ラ グ		
	LB 91:20:50	"	5P	"		
	LB 91:20:60	"	6P	"		
	LB 91:21:00	"	10P	"		
	LB 30:07:30	2.5 Pitch Base Pin	TEB3P-SHF	2.5ピッチベースピン		
	BA 08:59:80	Radiator		放 熱 器		
	Ei 03:00:66	Binding Head Tapping Screw	3×6 ZMC2-Y	バインドタッピングネジ	PACK	

※ New Parts (新規部品)

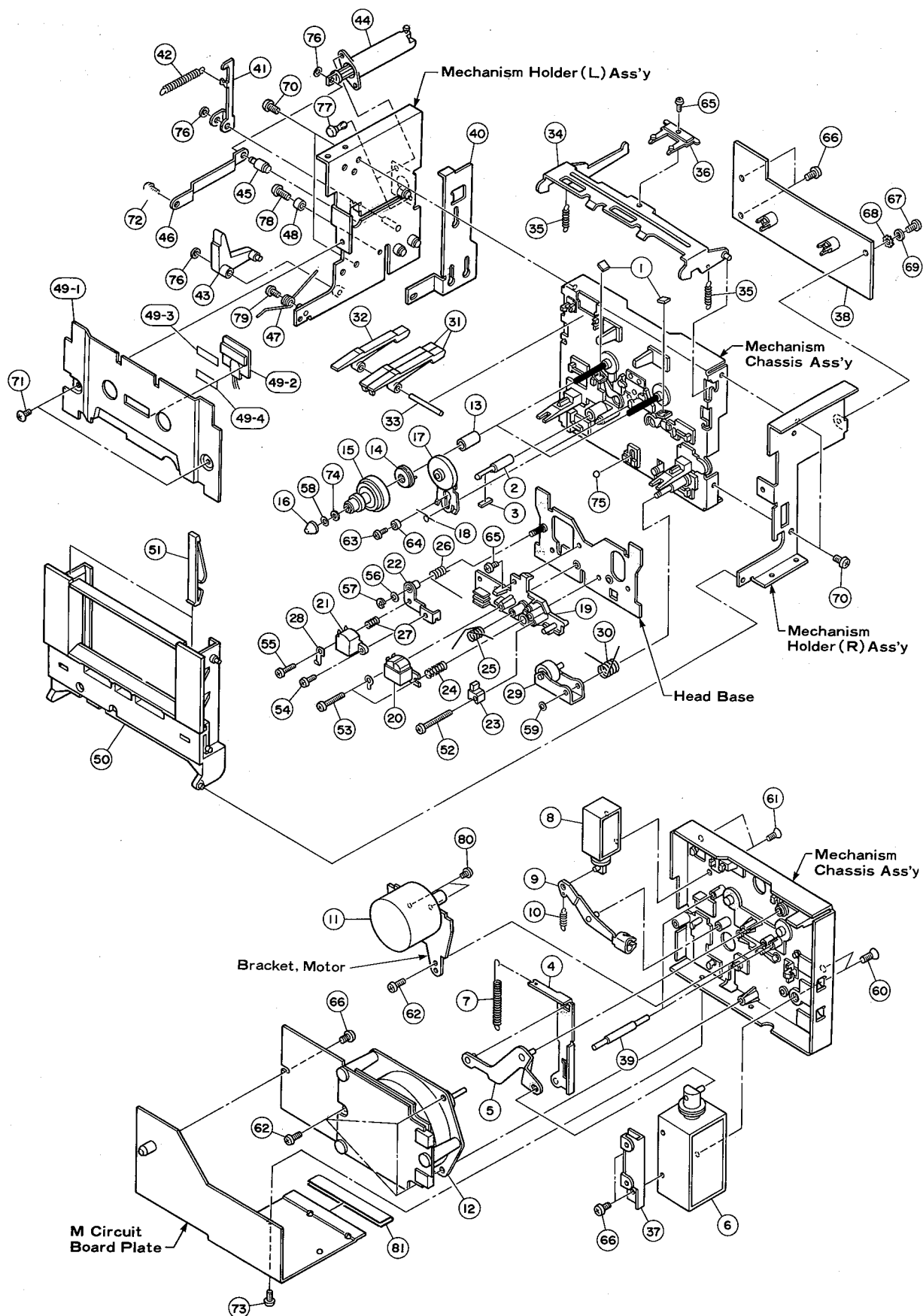
Ref. No.	Part No.				Description	部 品 名	Remarks	Common Model	Markets
※	NA	07	87	60	Relay Circuit Board	中 継 シ ー ト			
	UK	13	72	20	Electrolytic Cap.	22 μ F 16V	B P コ ン	C901	
	iH	00	05	90	Diode	10E-1	ダ イ オ ー ド	D901,902	
	iK	00	03	80	Photo Reflector	NJL5141EA	フ ォ ト リ フ レ ク タ ー	TR901,902	
	KA	60	04	70	Switch	MSW-S209CU	ス ケ ル ト ン ス イ ッ チ	SW901~903	
	LB	91	10	30	Short Plug	3P L-Type	シ ョ ー ト プ ラ グ		
	LB	91	10	40	"	4P L-Type	"		
	LB	91	10	80	"	8P L-Type	"		
	CB	60	95	10	Holder		フ ァ イ バ ー ホ ル ダ ー		
※	JC	00	07	30	D.D Motor	MC950E	D D モ ー タ ー		
	UW	96	54	70	Electrolytic Cap.	0.47 μ F 50V	ケ ミ コ ン	C1,2,4,13	
	UW	86	61	00	"	1 μ F 50V	"	C3	
	UW	83	73	30	"	33 μ F 16V	"	C5	
	FD	21	24	70	Polystyrene Film Cap.	470pF	ス チ コ ン	C6	
	FD	15	34	70	"	0.0047 μ F	"	C7	
	FD	15	42	20	"	0.022 μ F	"	C9,10	
	FT	17	42	20	Polypropylene Film Cap.	0.022 μ F	ポ リ プ ロ ピ レ ン フ ィ ル ム コ ン	C8	
	FH	61	21	50	Ceramic Cap.	150pF	セ ラ コ ン	C11	
	FG	74	42	20	"	0.022 μ F	"	C12	
	HK	15	32	70	Carbon Resistor	2.7 Ω FCR25	カ ー ボ ン 抵 抗	R1	
	HU	57	78	20	Metal Film Resistor	82k Ω	金 属 被 膜 抵 抗	R20	
	HT	41	01	40	Variable Resistor	47k Ω	半 固 定 抵 抗	VR1	
	IX	60	06	80	Transistor	2SA952(K,L)	ト ラ ン ジ ス タ	TR1,2	
	iC	99	01	50	"	2SC2001(K,L)	"	TR3,4	
	IX	60	03	70	"	2SC945(P)	"	TR5,6,10	
	IX	60	13	70	"	2SA733(P)	"	TR7,8,9,11	
	iF	99	04	00	Diode	1SS53	ダ イ オ ー ド	D1~4	
	IX	60	04	80	IC	VC1209	I C	IC1	

※ New Parts (新規部品)

EXPLODED VIEW



EXPLODED VIEW (CASSETTE MECHANISM)

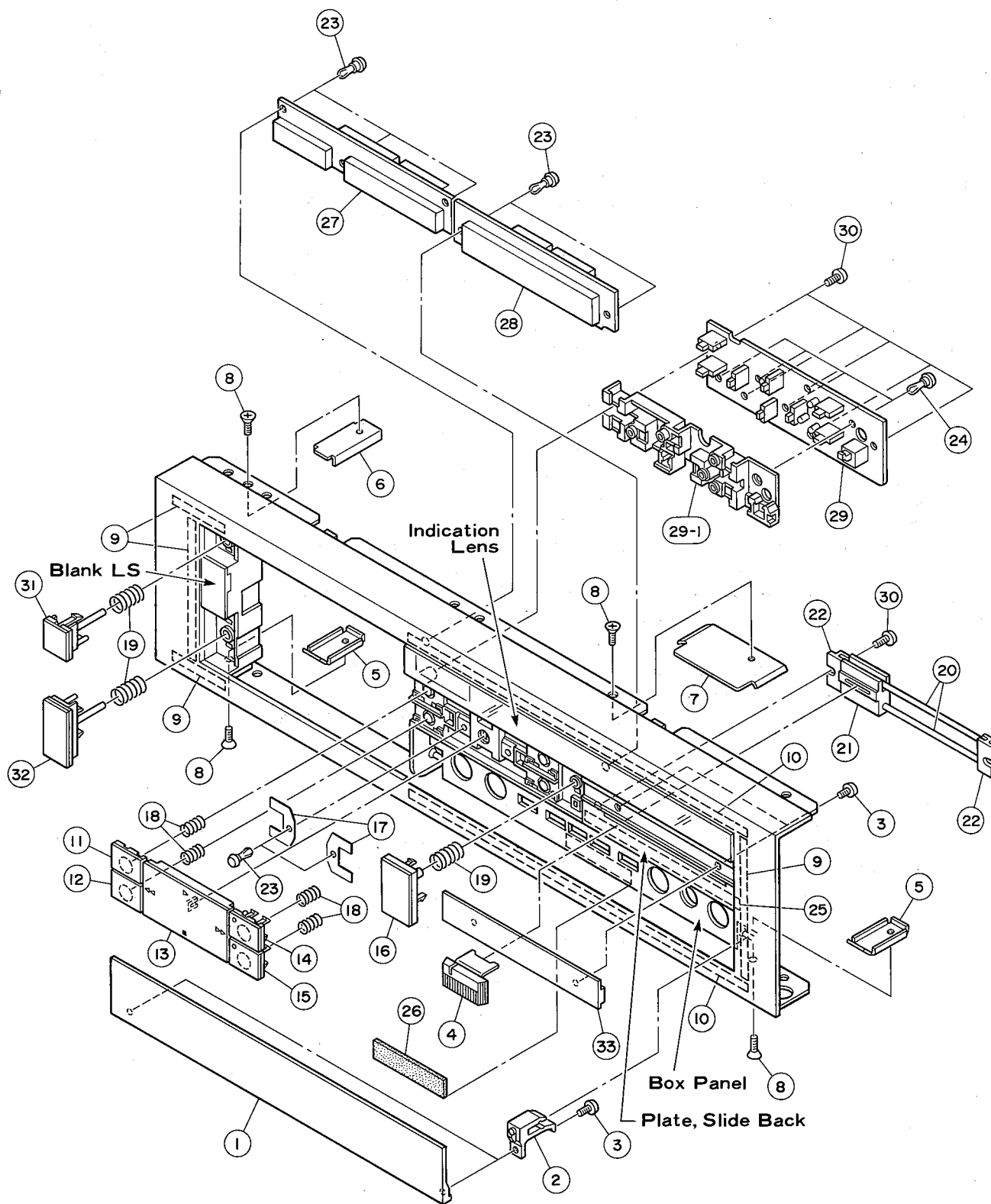


In this figure, apply silicone grease to the parts printed 
 apply diamond oil to the parts printed 
 apply molypaste to the parts printed 

CASSETTE MECHANISM PARTS

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets
※	SM 60 16 00	Cassette Mechanism Ass'y	TM-6B Silver	TM-6B 総組立		
※	SM 60 25 00	"	" Black	"		
1	CC 01 67 80	Felt, Brake		ブレーキフェルト		
2	AA 61 09 80	Shaft, Erase Head Tension		E.Hテンションポスト	K-1000	
3	CC 01 68 90	Felt, Erase Head Tension		E.Hテンションフェルト	K-1000	
4	NB 60 51 80	Coupling Plate Ass'y		ベース連結板Ass'y	K-1000	
5	NB 09 81 50	Link Ass'y		リンク Ass'y		
6	JF 00 03 10	Solenoid, Base	TDS-10E	ベースソレノイド	K-1000	
7	AA 61 09 90	Return Spring		リターンスプリング	K-1000	
8	JF 00 03 50	Solenoid, Brake	TDS-07A	ブレーキシレノイド	K-1000	
9	CB 60 94 80	Lever, Brake		ブレーキレバー	K-1000	
10	AA 61 27 30	Brake Spring		ブレーキスプリング	K-1000	
11	JC 00 07 40	Reel Motor	BFS-7B	リールモーター	K-1000	
※	JC 00 07 30	D.D. Motor	MC-950E	D.Dモーター		
13	AA 61 10 00	B.T Spring		B.Tスプリング L	K-1000	
14	NB 09 81 80	B.T Disk Ass'y		B.Tディスク Ass'y		
15	NB 60 52 50	Reel Base Ass'y		リール台 Ass'y	K-1000	
16	CB 09 24 00	Reel Cap		リールキャップ		
17	NB 60 51 90	Idler Ass'y		アイドラ Ass'y	K-1000	
18	AA 61 27 40	Idler Spring		アイドラースプリング	K-1000	
19	CB 61 53 40	Base		支柱台	K-1000	
※	GF 00 02 30	Rec/Playback Combination Head		録再コンビネーションヘッド		
21	GF 00 02 60	Erase Head		消去ヘッド	K-1000	
22	NB 60 52 30	Erase Head Arm Ass'y		消去ヘッドアーム Ass'y	K-1000	
※	GF 00 02 40	Sub Erase Head		サブ消去ヘッド		
24	AA 60 45 10	Spring		アジマススプリング		
25	AA 61 10 50	"		ベース駆動スプリング	K-1000	
26	AA 61 10 60	"		消去ヘッドスプリング	K-1000	
27	AA 61 15 00	"		消去ヘッドアジマススプリング	K-1000	
28	BB 07 01 30	Binding Plate		束線止め	K-1000	
29	NB 60 52 00	Pinch Roller Ass'y		ピンチローラー Ass'y	K-1000	
30	AA 61 10 10	Pinch Roller Spring		ピンチローラーズプリング	K-1000	
31	CB 60 04 80	Lever, Sensor		センサーレバー		
32	CB 61 30 40	"		"	K-1000	
33	BB 06 92 50	Shaft, Sensor		センサーシャフト		
34	NB 60 52 70	Holder Plate Ass'y		押え板 Ass'y	K-1000	
35	AA 61 10 20	Spring		押えスプリング	K-1000	
36	NB 60 18 50	Metal Switch Ass'y		メタルスイッチ Ass'y	K-20	
37	AA 61 29 40	Bracket		基板ブラケット	K-1000	
※	NA 07 87 60	Relay Circuit Board		中継シート		
39	CB 60 95 00	Acrylic Fiber		アクリルファイバー	K-1000	
40	AA 61 28 40	Plate (Eject Operate)		イジェクト作動板	K-1000	
41	AA 61 28 50	Lever, Lock		ロックレバー	K-1000	
42	AA 61 29 30	Spring		ロックレバースプリング	K-1000	
43	CB 61 30 50	Lever, Eject		イジェクトレバー	K-1000	
44	NB 60 78 70	Damper Ass'y		ダンパー Ass'y	K-1000	
45	BB 07 00 10	Shaft, Slide		スライド軸	K-1000	
46	AA 61 28 60	Coupling Plate		イジェクト連結板	K-1000	
47	AA 61 29 10	Spring		イジェクトスプリング	K-1000	
48	CB 61 42 10	Stopper		ストッパー	K-1000	
49-1	AA 61 28 90	Blind Plate Ass'y	Silver	ブラインドプレート	K-1000	
"	AA 61 29 00	"	Black	"	K-1000	
49-2	IF 00 35 70	LED		L E D	K-1000	

※ New Parts (新規部品)

EXPLODED VIEW(FRONT PANEL)

FRONT PANEL PARTS

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets
※	NB 60 85 00	Panel Unit	Silver	パ ネ ル ユ ニ ッ ト		
※	NB 60 85 40	"	Black	"		
※	1 BA 08 42 50	Siling Panel	Silver	シ ー リ ン グ パ ネ ル		
※	" BA 08 42 60	"	Black	"		
	2 CB 61 37 90	Hinge,Door	Silver	ド ア ー ヒ ン ジ	K-1000	
	" CB 61 38 00	"	Black	"	K-1000	
	3 ED 03 00 50	Binding Head Screw	3×5 ZMC2-Y	バ イ ン ド 小 ネ ジ		
	4 NB 60 83 50	Slide Knob Ass'y	Silver	ス ラ イ ド ツ マ ミ Ass'y	K-1000	
	" NB 60 83 60	"	Black	"	K-1000	
	5 AA 61 37 10	Clamp A		ク ラ ン プ A	K-1000	
	6 AA 61 37 20	Clamp B		ク ラ ン プ B	K-1000	
	7 AA 61 37 30	Clamp C		ク ラ ン プ C	K-1000	
	8 EN 39 00 40	Flat Head Tapping Screw	3×8 FCRM3-B	皿 タ ッ ピ ン グ ネ ジ		
	9 CB 61 57 70	Adhesive Tape		ダ ブ ル タ ッ ク テ ー プ		
	10 CB 07 41 90	"		"		
	11 NB 60 82 30	Button Ass'y	Silver	ボ タ ン Ass'y	RESET	K-1000
	" NB 60 82 40	"	Black	"	"	K-1000
	12 NB 60 82 50	"	Silver	"	MEMORY	K-1000
	" NB 60 82 60	"	Black	"	"	K-1000
	13 NB 60 82 70	"	Silver	"	OPERATION	K-1000
	" NB 60 82 80	"	Black	"	"	K-1000
	14 NB 60 82 90	"	Silver	"	REC/PAUSE	K-1000
	" NB 60 83 00	"	Black	"	"	K-1000
	15 NB 60 83 10	"	Silver	"	MUTE	K-1000
	" NB 60 83 20	"	Black	"	"	K-1000
※	16 NB 60 83 30	"	Silver	"	MONITOR	
※	" NB 60 83 40	"	Black	"	"	
	17 AA 61 37 00	Leaf Spring		リ ー フ ス プ リ ン グ	OPERATION	K-1000
	18 AA 61 36 80	Spring	φ6	ス プ リ ン グ		K-1000
	19 AA 61 36 90	"	φ8	"		K-1000
	20 AA 61 36 70	Slide Shaft		ス ラ イ ド シ ャ フ ト		K-1000
	21 CB 61 38 10	Slider		ス ラ イ ダ ー		K-1000
	22 CB 61 38 20	Shaft Holder		シ ャ フ ト ホ ル ダ ー		K-1000
	23 CB 60 88 10	Plastic Rivet		プ ラ ス チ ッ ク リ ベ ッ ト		
	24 CB 06 88 80	"		"		
	25 CB 07 42 00	Adhesive Tape		ダ ブ ル タ ッ ク テ ー プ		
	26 CB 61 71 10	Anti-Vibration Rubber		防 振 ゴ ム		K-1000
※	27 NA 08 05 80	Indication LED	2SLS041-3	イ ン ジ ケ ー シ ョ ン L E D	Silver	
※	" NA 08 05 90	"	2BLS041-2	"	Black	
	28 NA 08 06 00	LED Meter	SLS032-S	L E D メ ー タ ー	Silver	K-1000
	" NA 08 06 10	"	BLS032-B	"	Black	K-1000
※	29 NA 08 01 70	Operation Circuit Board		オ ペ レ ー シ ョ ン シ ー ト		
	29-1 CB 61 36 50	Holder		ホ ル ダ ー		K-1000
	30 EN 03 00 20	Binding Head Tapping Screw	3×8 ZMC2-Y	バ イ ン ド タ ッ ピ ン グ ネ ジ		
	31 NB 60 81 90	Button Ass'y	Silver	ボ タ ン Ass'y	POWER	K-1000
	" NB 60 82 00	"	Black	"	"	K-1000
	32 NB 60 82 10	"	Silver	"	EJECT	K-1000
	" NB 60 82 20	"	Black	"	"	K-1000
※	33 BA 08 43 30	Blank Panel	Silver	ブ ラ ン ク パ ネ ル		
※	" BA 08 43 40	"	Black	"		

※ New Parts (新規部品)

K-2000

YAMAHA
