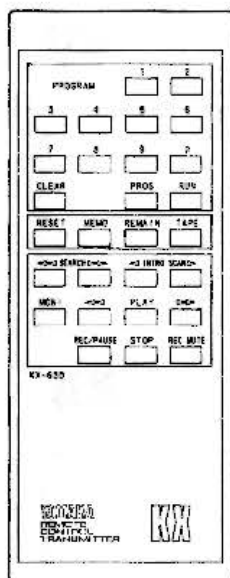
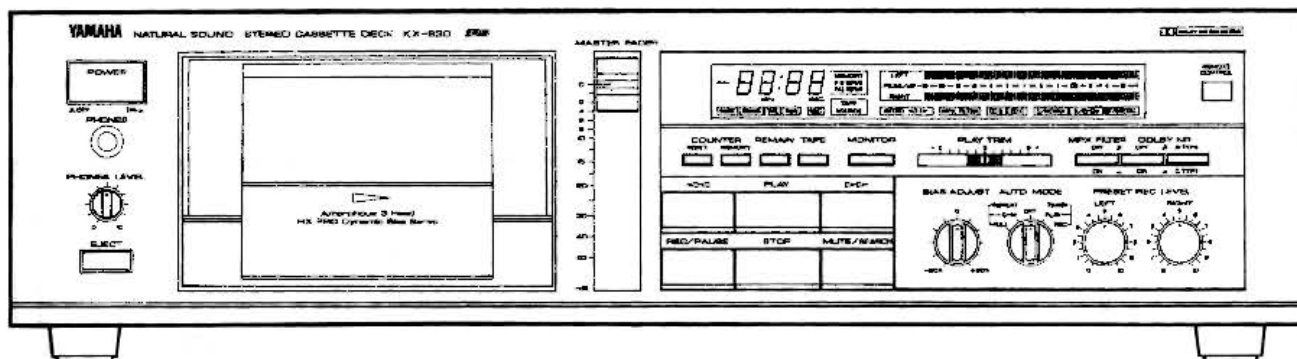


# STEREO CASSETTE DECK KX-630

## SERVICE MANUAL



### IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

**WARNING:** Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

**IMPORTANT:** The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.


**WARNING:** Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

**IMPORTANT:** Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

### CONTENTS

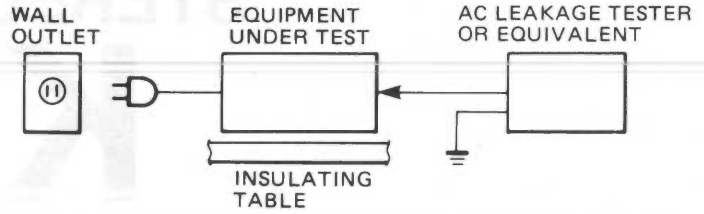
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## TO SERVICE PERSONNEL

1. Critical Components Information.  
Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.

2. Leakage Current Measurement (For 120V Model Only).  
When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohm shunted by 0.15 $\mu$ F.
- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.

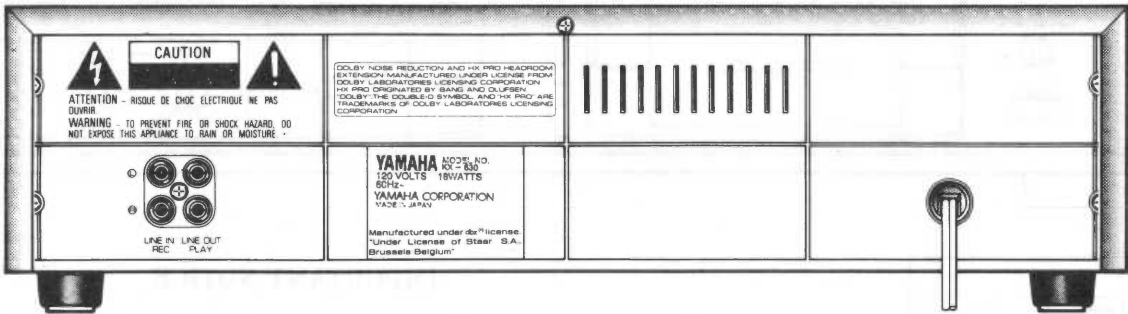


• **POLARIZATION (U, C models)**

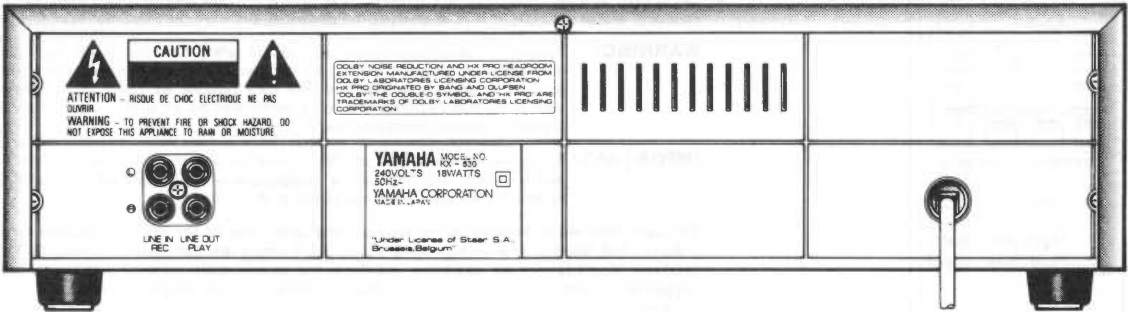
This cassette deck product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

## REAR PANELS

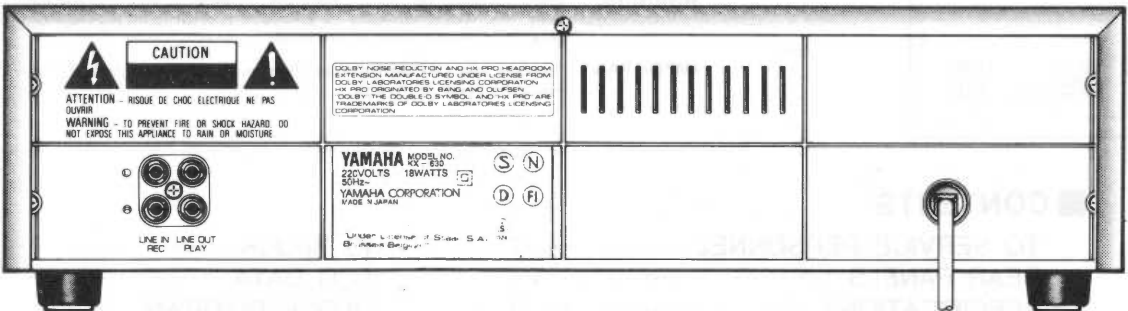
### U.S.A & Canadian models



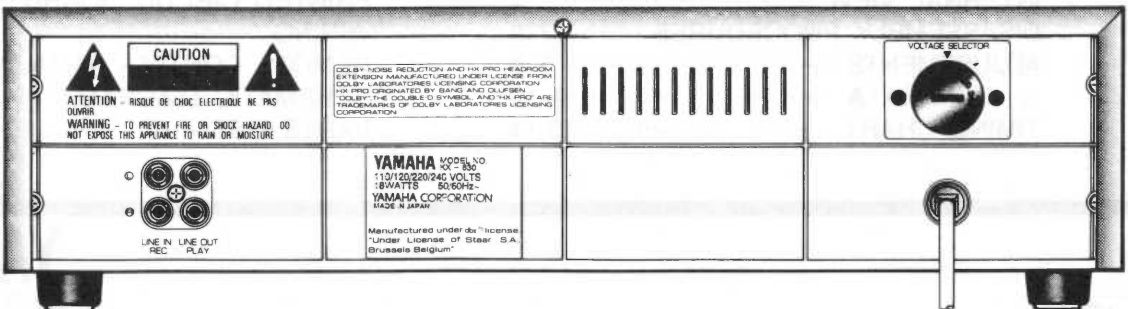
### Austrarian & British models



### European model



### General model



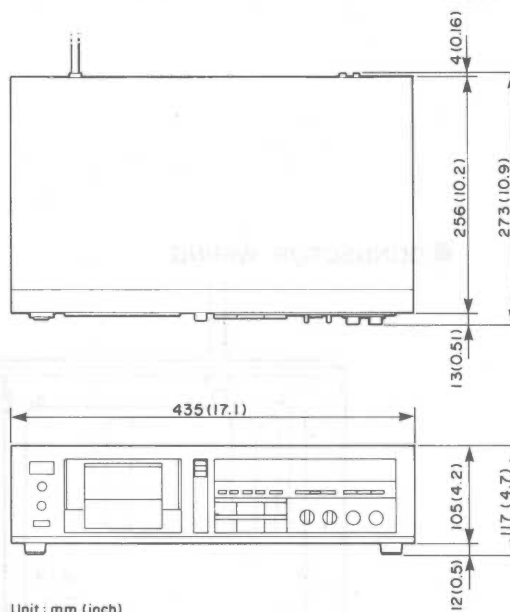
## SPECIFICATIONS

Track Configuration	4 track, 2 channel stereo
Motor	DC servo motor (main) Flat torque DC motor (reel)
Heads	Combination, Hard Permalloy Rec head and 12-laminated core Amorphous Playback head Double-gap Ferrite erase head
Rapid Transport (F.Fwd/Rew)	90 sec. (C-60)
Wow and Flutter	
WRMS	less than 0.05%
W.Peak	less than ±0.08%
Signal-to-Noise Ratio	
(Dolby NR off)	better than 60 dB
(Dolby B NR on)	better than 68 dB
(Dolby C NR on)	better than 76 dB
Frequency Response	
Normal tape (-20 dB)	20 — 17,000 Hz ±3 dB
CrO <sub>2</sub> tape (-20 dB)	20 — 19,000 Hz ±3 dB
Metal tape (-20 dB)	20 — 20,000 Hz ±3 dB
Harmonic Distortion	
Normal tape	less than 0.8%
Chrome tape	less than 0.8%
Metal tape	less than 0.8%
Input Sensitivity/Impedance	
Line	60 mV/50 k-ohms
Output Level	
Line	360 mV/1 k-ohm
Phones	0.6 mW/8 ohms
Channel Separation (3150 Hz)	40 dB
Cross Talk (125 Hz)	55 dB
<b>GENERAL</b>	
Power Supplies	
U.S.A. and Canada model	120V, 60 Hz
Europe model	220V, 50 Hz
U.K. model	240V, 50 Hz
Other model	110, 120, 220, 240 V, 50/60 Hz
Power Consumption	18W
Dimensions (W x H x D)	435 x 117 x 273 mm (17-1/8" x 4-5/8" x 10-3/4")
Weight	4.7 kg (10 lbs. 6 oz.)

Specifications subject to change without notice.

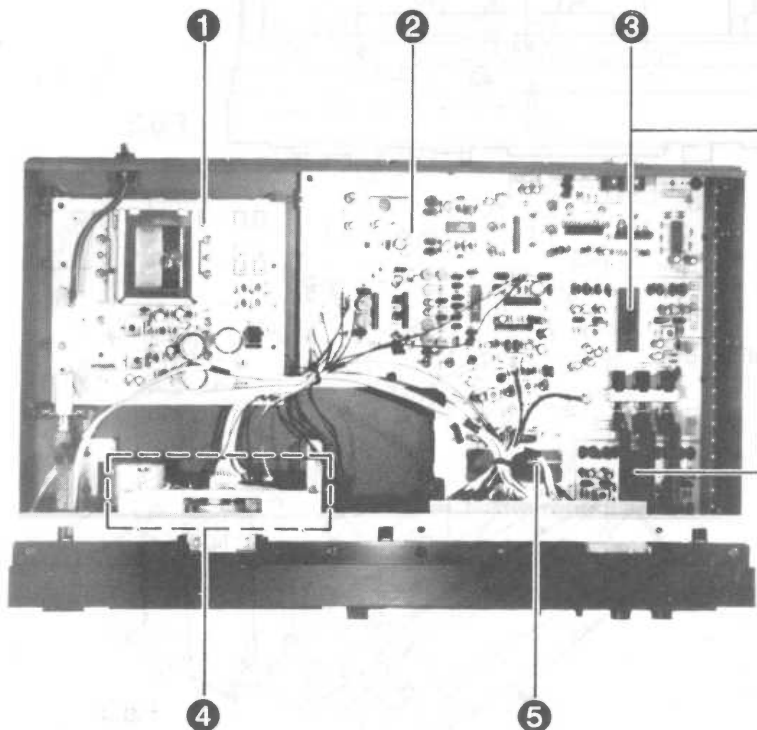
- (U) ..... U.S.A model
- (C) ..... Canadian model
- (G) ..... European model
- (A) ..... Austrarian model
- (B) ..... British model
- (R) ..... General model

## Dimensions



Unit : mm (inch)

## INTERNAL VIEW



- 1 POWER TRANSFORMER ASS'Y
- 2 MAIN CIRCUIT BOARD(1)
- 3 DOLBY IC : CX20187
- 4 CASSETTE MECHANISM UNIT
- 5 μ -COM IC : LC6554H-4122

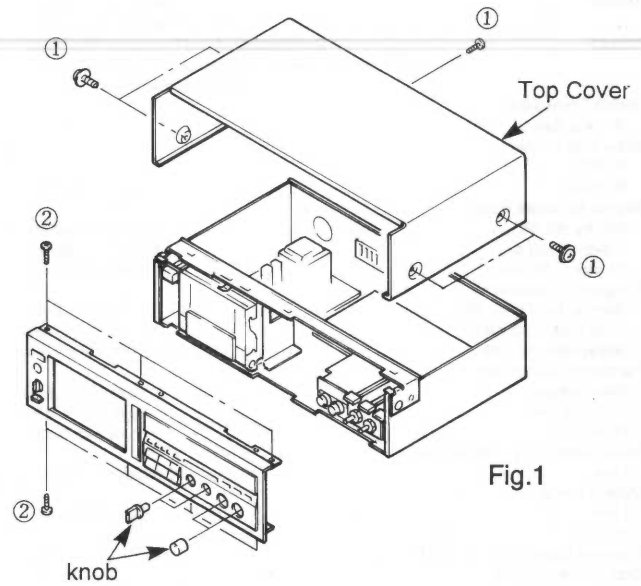
## DISASSEMBLY PROCEDURES

### 1. Removal of Top Cover

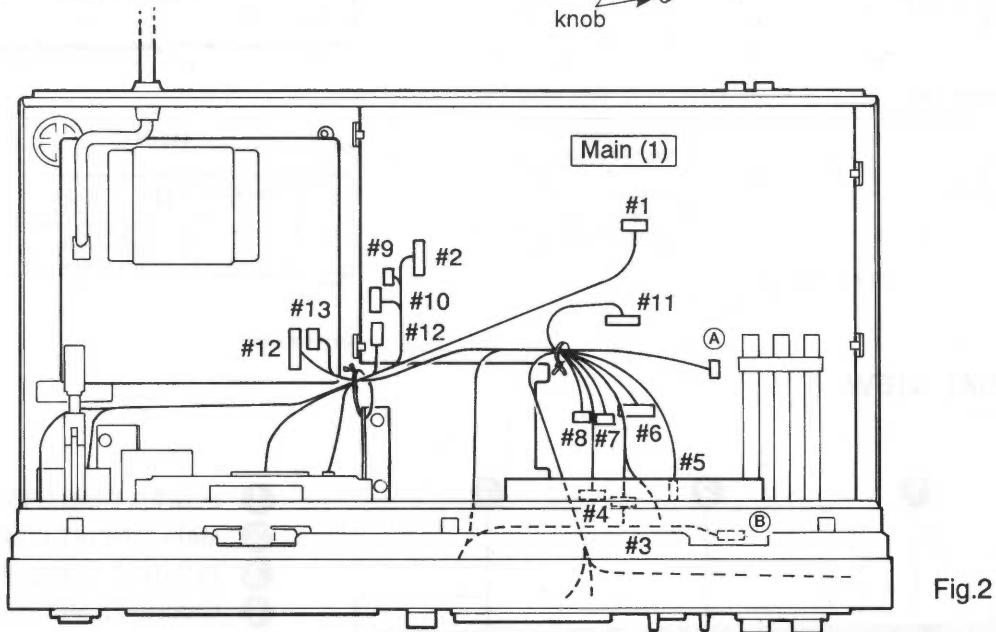
Remove 5 screws ( ① ) in Fig. 1.

### 2. Removal of Front Panel

- a. Pull off 4 knobs in Fig. 1.
- b. Cut 2 binding Tie in Fig.2.
- c. Detach 10 connectors ( #5~#11,#13, ①, ② ) in Fig.2.
- d. Remove 7 screws ( ② ) then pull off Front Panel in Fig. 1.

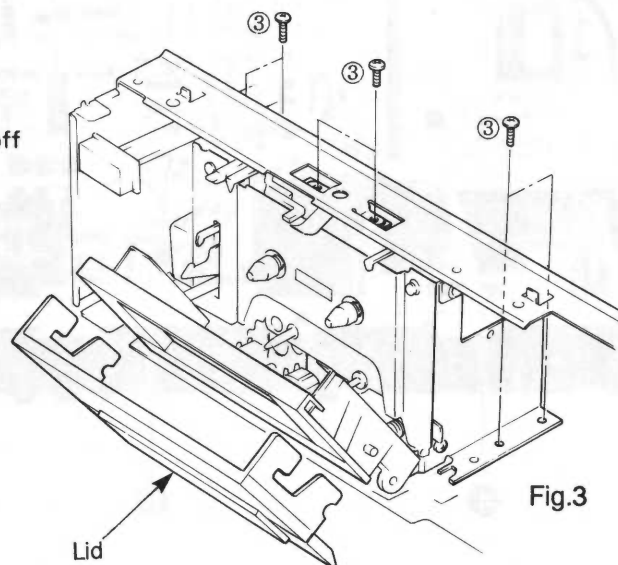


### ● CONNECTOR WIRING



### 3. Removal of Cassette Mechanism Unit

- a. Remove Lid in Fig. 3.
- b. Detach 4 connectors (#1~#4) in Fig.2.
- c. Remove 6 screws ( ③ ) in fig. 3, then slide off Cassette Mechanism Unit backward gently.



**4. Removal of Housing Ass'y**

- a. Detach the spring ( ④ ) in Fig.4.
- b. Remove the lower part of the Housing Ass'y by pressing it in the direction of the arrow.
- c. Remove the Housing Ass'y from the Damper Arm.

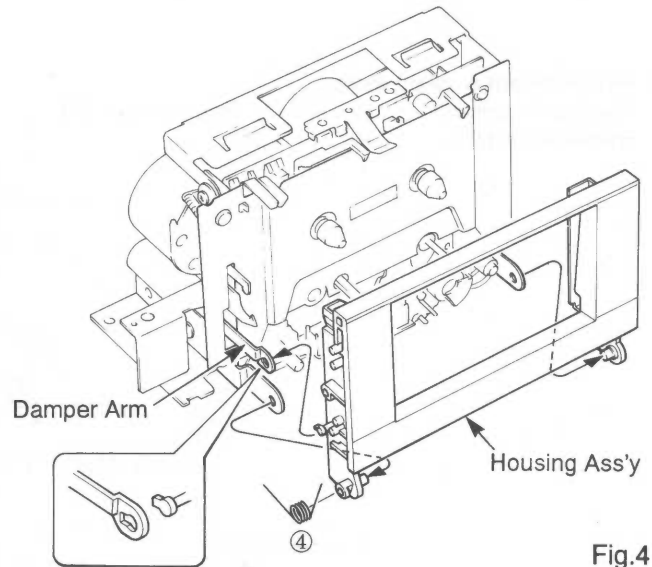


Fig.4

**5. Removal of Pinch Roller**

Unhook at 1 place as shown in Fig. 5 and remove the Pinch Roller.

**6. Removal of Heads**

- a. Remove 2 screws ( ⑤ ) in Fig. 5 and then remove the Recording/Playback Head.
- b. Remove 2 screws ( ⑥ ) in Fig. 5 and then remove the Erase Head.

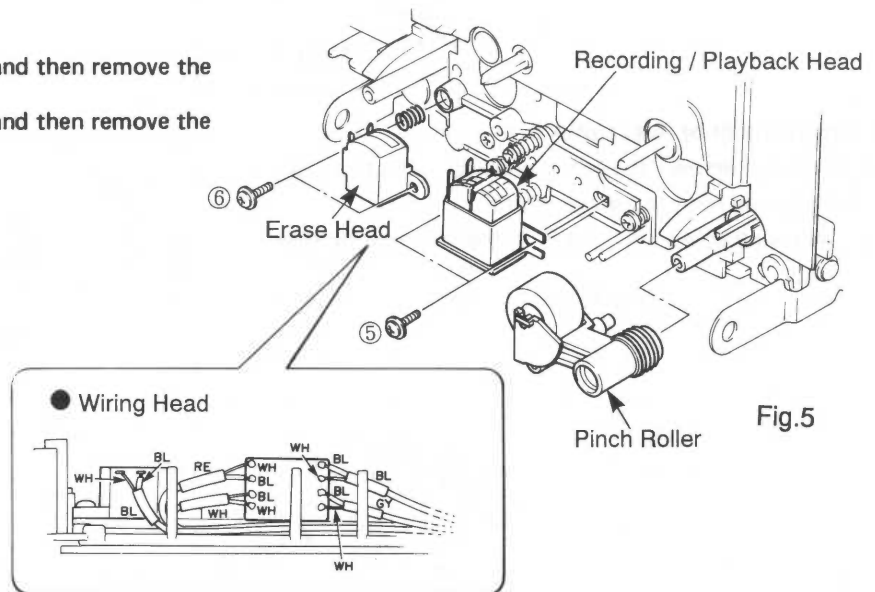


Fig.5

**7. Removal of Blind Plate**

Remove 1 screw ( ⑦ ) and 1 plastic rivet ( ⑧ ) in Fig.6. and then remove the Blind Plate.

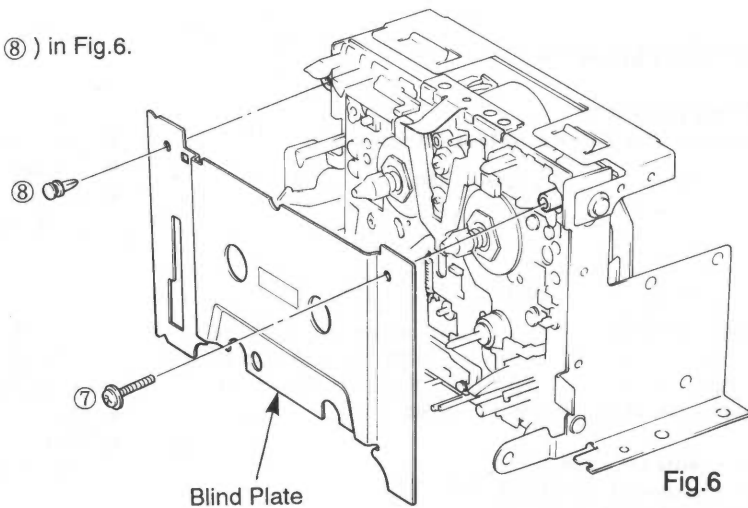


Fig.6

**8. Replacement of Main Motor**

Remove 3 screws ( ⑨ ) in Fig. 7, then remove the Blacket Main Motor

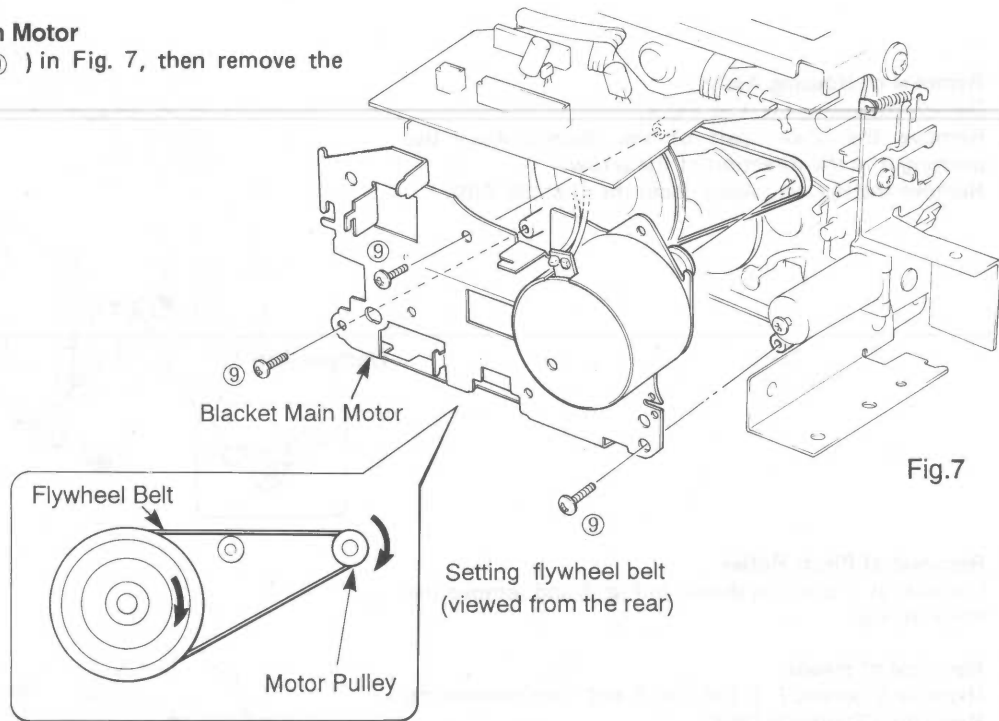


Fig.7

**9. Replacement of Reel Motor**

- a. Remove 1 screw ( ⑪ ) and 1 screw ( ⑫ ), 1 spacer ( ⑬ ) in Fig.8, then remove the Eject Arm.
- b. Remove 2 screw ( ⑭ ) in Fig. 9 then remove the Reel Motor .

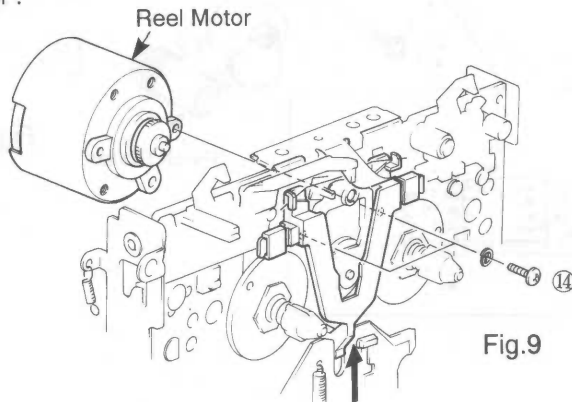


Fig.9

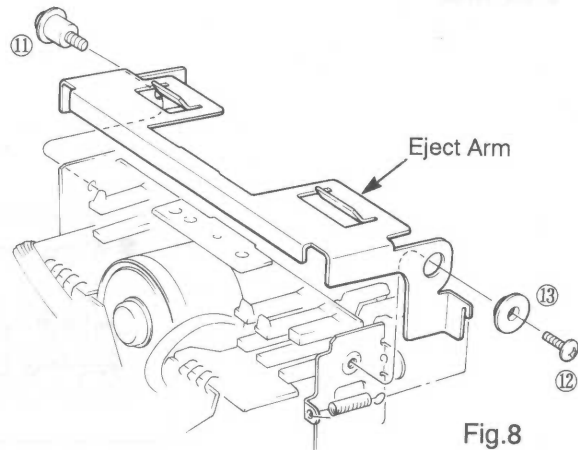


Fig.8

**ADJUSTMENTS**

**1. Before adjustment:**

- Make sure that AC line voltage comes within

Models	AC line voltage
U, C	120V ± 10%
G	220V ± 10%
A, B	240V ± 10%

- 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.

**2. Instruments required**

- Audio frequency oscillator (AF OSC)
- ACVM or dual channel (ACVM)
- Wow/flutter meter

- Oscilloscope
- Frequency counter
- Torque meter
  - TW-2111A (TX911580) . . . Take up/back tension (FWD)
  - TW-2121A (TX911570) . . . Take up/back tension (RVS)
  - CT160L (TX911120) . . . FF/REW
  - TW-2412 (TX911640) . . . Driving power (FWD)
  - TW-2422 (TX911630) . . . Driving power (RVS)
- DCVM
- Mirror Cassette
  - MC-109C (TX911430) . . . Tape movement

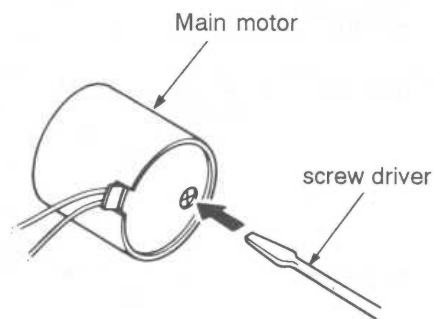
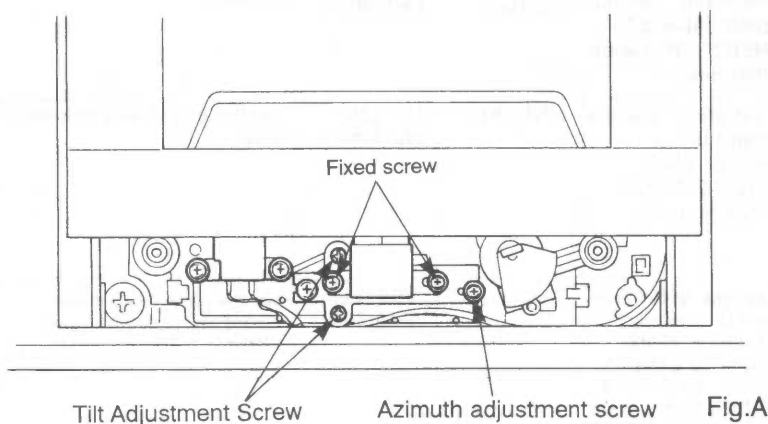
3. Test tape required

- MTT-111N (TX911650) . . . Tape speed
- MTT-114N (TX911680) . . . Azimuth
- MTT-212CN (TX911670) } Playback level
- MTT-212N (TX911660) }
- MTT256 (TX911300) . . . Playback frequency response (Normal)
- MTT356 (TX911310) . . . Playback frequency response (CrO<sub>2</sub>)

- Reference tape
- Normal (LH): TDK AC223 (TX911600)
- CrO<sub>2</sub>: TDK AC513 (TX911750)
- METAL: TDK AC712 (TX911590)

● MECHANICAL ADJUSTMENT

Step	Item to be Adjusted	Tape	Instrument required	Mode	Measurement conditions	Adjustment part	Rating	Remarks
1	Record/Playback head tilt angle		Headgauge (M-300) (THG-801)		With M-300 block placed vertically on record/playback head, adjust so that M-300 gauge and block becomes parallel (Fig.C,D)	Tilt angle adjusting screw (Fig.A)	M-300 gauge and block should be parallel.	Place M-300 block vertically on head leaving space between M-300 block and gauge.
2	Azimuth	MTT-114N 10kHz,-10d	ACVM Oscilloscope	PLAY		Azimuth adjustment screw.(Fig.A)	Playback output of L and R is maximum and phase difference should be minimum.	After the adjustment, make sure to apply screw lock paint.
3	Check each torque		Torque meter				Take-up torque : 25~70gcm FF,REW torque : more than 70gcm Back tension : 1.5~6gcm	
4	Check FF and REW times	AC-513					Less than 90 ± 15seconds	
5	Tape speed	MTT-111N 3kHz,-10dB	Wow/flutter meter or Frequency counter	PLAY		Semi fixed variable resistor at the back of the Main motor. (Fig.B)	3000 ± 15Hz	
6	WOW/flutter	MTT-111N 3kHz,-10dB	Wow/flutter meter	PLAY			Less than 0.08% (WRMS)	



Tilt Adjustment Screw Azimuth adjustment screw Fig.A

Fig.B

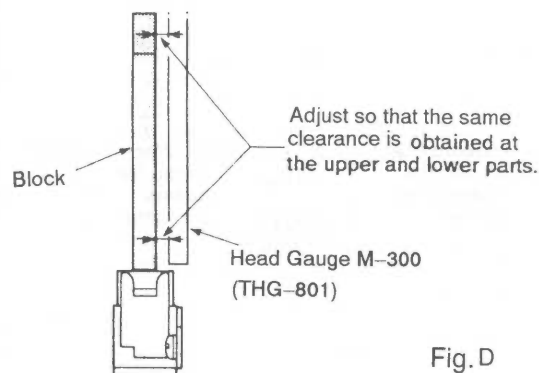
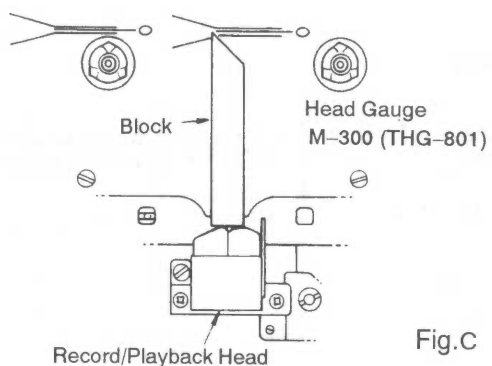


Fig.C

Fig.D



● ELECTRIC ADJUSTMENT

Proceed with the following adjustment after having finished the mechanical adjustments.  
 Proceed with the recording section adjustment after having finished the playback section adjustment.  
 Use 360mV (160nwb/m) for 0dB as the standard level of the unit.  
 Phones level knob maximum. BIAS ADJUSTMENT and PLAY TRIM knob center.(not point)

< Playback section >

Step	Item to be Adjusted	Tape	Instrument required	Mode	Measurement conditions	Points of measurement	Adjustment parts	Rating
1	Playback level	MTT-212CN 315Hz, 160nwb/m	ACVM	PLAY		LINE OUT	VR5 (Lch) VR6 (Rch)	360mV ± 25mV
2	Confirmation of playback frequency response	Test tape for frequency check. 3180μs + 120μs (LH) (MTT-256) 3180μs + 70μs (CrO <sub>2</sub> ) (MTT-356)	ACVM Oscilloscope	PLAY		LINE OUT		Check that the 10kHz playback level lies within 0 ± 4 dB of the 315Hz playback level. (Fig. C)

● PLAYBACK FREQUENCY RESPONSE

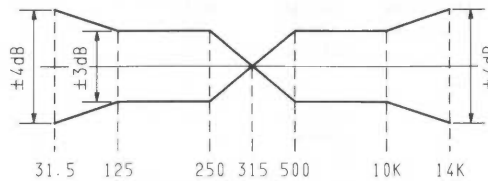


Fig.C

< Recording section >

Step	Item to be Adjusted	Tape	Instrument required	Mode	Measurement conditions	Points of measurement	Adjustment parts	Rating
1	Meter		ACVM Audio frequency oscillator	SOURCE	Apply a 315Hz signal to LINE IN terminals. Set the REC LEVEL knob so that LINE OUT voltage is 360mV.	Peak level meter	VR7 (Lch) VR8 (Rch)	Adjust VR7 and VR8 to the lowest level where the 0dB display part of the level meter light up.
2	Bias Oscillation Level	AC712 (METAL) HX PRO	ACVM	REC PLAY	Set VR11,12 at the minimum. Set the BIAS ADJUSTMENT (VR13) knob maximum.	TP1(Lch) TP2(Rch)	L7(Lch) L8(Rch)	Set the output levels to maximum.
3	Bias Leak	AC712 (METAL)	ACVM	REC PLAY	Set VR11,12 at the minimum. Set the BIAS ADJUSTMENT knob maximum.	LINE OUT	F11 (Lch) F12 (Rch)	Set the output level to lowest level.
4	Record level		ACVM	REC PLAY	Set the VR11 and VR12 is center. Apply a 315Hz signal to LINE IN terminals. Set the REC LEVEL knob so that LINE OUT voltage is 360mV Set the BIAS ADJUSTMENT (VR13) knob center.	LINE OUT	VR9 (Lch) VR10(Rch)	Set the same level of the record and playback level (360mV ± 25mV)
5	Record bias (Total frequency response)	AC-513 (CrO <sub>2</sub> ) AC223 (Normal)	ACVM Audio frequency oscillator	REC PLAY	Set the REC level knob so that LINE OUT voltage is 36 mV . ( - 20dB)	LINE OUT	VR11 (Lch) VR12 (Rch) VR14	Set the same level of the record and playback level (Table.1)

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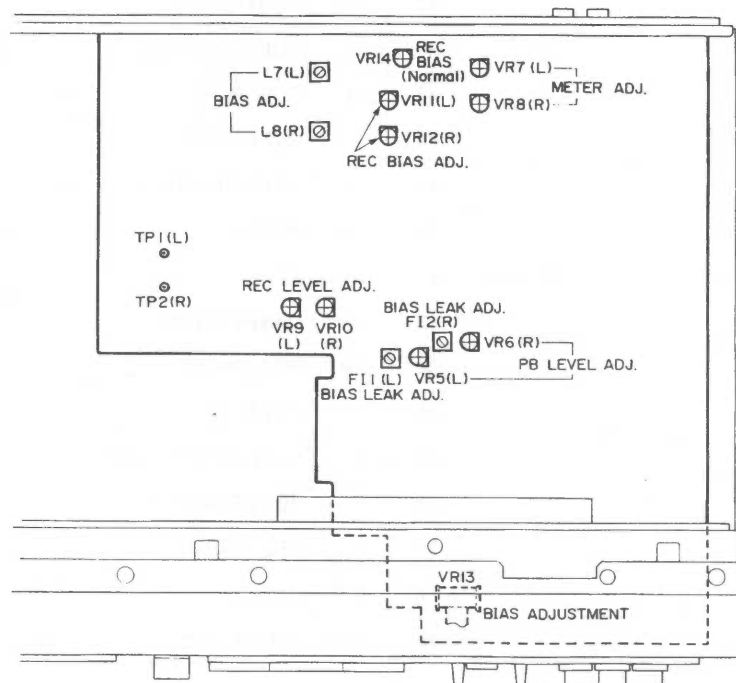


● TOTAL FREQUENCY RESPONSE (-20dB)

NR	TAPE	RATING
NR OFF	NORMAL	
	CrO <sub>2</sub>	
	METAL	
DOLBY B-NR	NORMAL CrO <sub>2</sub> METAL	
DOLBY C-NR	NORMAL CrO <sub>2</sub> METAL	

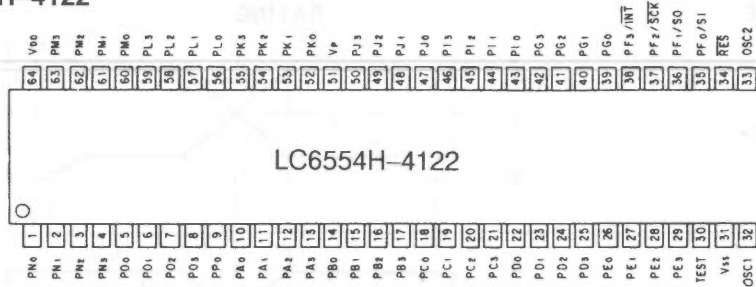
Table.1

● TEST POINTS



μ-COM DATA

● IC14 : LC6554H-4122



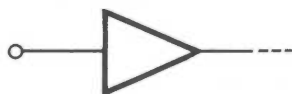
PIN	NAME	FUNCTION	PIN	NAME	FUNCTION
1	NO	LINE MUTE	64	VDD	+5V
2	N1	REC MUTE	63	M3	OPEN
3	N2	TAPE	62	M2	DI
4	N3	SOURCE	61	M1	CL
5	O0	NORMAL	60	M0	CE
6	O1	CrO2	59	L3	OPEN
7	O2	METAL	58	L2	
8	O3	70 μ	57	L1	
9	P0	GAIN SELECT	56	L0	
10	A0	PLAY	55	K3	AMP CONTROL
11	A1	REC	54	K2	
12	A2	FF	53	K1	
13	A3	REW	52	K0	
14	B0	MUTE	51	VP	GND
15	B1	STOP	50	J3	BIAS
16	B2	RESET	49	J2	OPEN
17	B3	MEMORY	48	J1	
18	C0	REMAIN	47	J0	MAIN MOTOR
19	C1	TAPE	46	I3	SOLENOID HOLD
20	C2	MONITOR	45	I2	SOLENOID
21	C3	REMOTE INPUT	44	I1	REEL MOTOR (-)
22	D0	MUSIC PULSE	43	I0	REEL MOTOR (+)
23	D1	MPX	42	G3	METAL
24	D2	DOLBY-B	41	G2	70 μ
25	D3	DOLBY-C	40	G1	CASSETTE IN
26	E0	FULL REPEAT	39	G0	REC INHIBIT
27	E1	O-M REPEAT	38	F3	OPEN
28	E2	TIMER-PLAY	37	F2	POWER OFF PULSE
29	E3	TIMER-REC	36	F1	REEL PULSE (S)
30	TEST	GND	35	F0	REEL PULSE (T)
31	VSS	GND	34	RES	RESET
32	OSC1	CLOCK (4MHz)	33	OSC2	CLOCK (4MHz)

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● LOGIC AND CIRCUIT FROM OF INPUT PORT

PIN	PORT NAME		LOGIC	CIRCUIT FORM
10~17	PLAY,REC,FF,REW	OPERATION KEY	SW ON : L	OP
	MUTE,STOP,RESET			PU
18~20	REMAIN,TAPE,MONITOR			
21	REMOTE INPUT		Fig. B	OP
22	MUSIC PULSE		MUSIC INTERVAL : H	
23~25	MPX,DOLBY-B,DOLBY-C	DOLBY-SW	SW ON : L	PU
26~29	FULL-REPEAT	AUTO MODE		
	O-M REPEAT			
	TIMER-PLAY			
	TIMER-REC			
34	RESET		RESET : L	
35,36	REEL PULSE (T,S)		REEL ROTATION : PULSE	OP
37	POWER OFF PULSE		POWER ON : PULSE	
39~42	REC INHIBIT, CASSETTE IN METAL,70 $\mu$	MECHA SW	REC OK : L	PU
			CASSETTE IN : L	
			METAL,70 $\mu$ : H	

OP: OPEN



PU: PULL UP

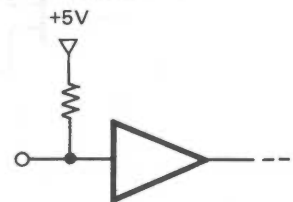


Fig.A

● REMOTE CONTROL SIGNAL (NO SIGNAL : H)

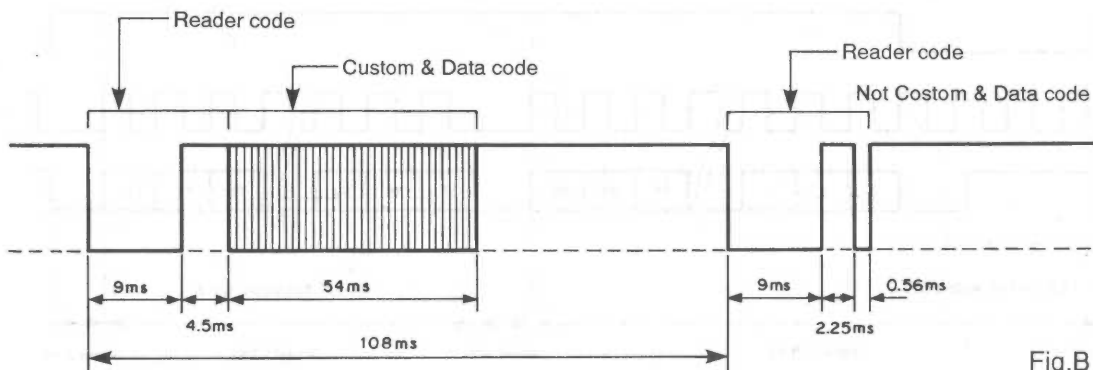


Fig.B

KX-630

● LOGIC AND CIRCUIT FROM OF OUTPUT PORT

PIN	PORT NAME	LOGIC	CIRCUIT FORM	
1	LINE MUTE	LINE MUTE ON : H	OD1	
2	REC MUTE	REC MUTE ON : H		
3	TAPE	MONITOR TAPE : H		
4	SOURCE	MONITOR SOURCE : H		
5-8	NORMAL, CrO2 METAL, 70 μ	AGREEMENT TO SETTING TAPE : H		
9	GAIN SELECT	REC PLAY, PLAY : H		
43	REEL MOTOR ( + )	FF : H	OD2	
44	REEL MOTOR ( - )	REW : H		
45	SOLENOID	SOLENOID ON : L		
46	SOLENOID HOLD	SOLENOID HOLD ON : L		
47	MAIN MOTOR	MAIN MOTOR ON : L		
50	BIAS	AMP CONTROL	BIAS ON : H	OD1
60-62	CE, CL, DI	LCD CONTROL	Fig.D	

OD1: OPEN DRAIN 1

OD2: OPEN DRAIN 2



Fig.C

● LCD CONTROL SIGNAL

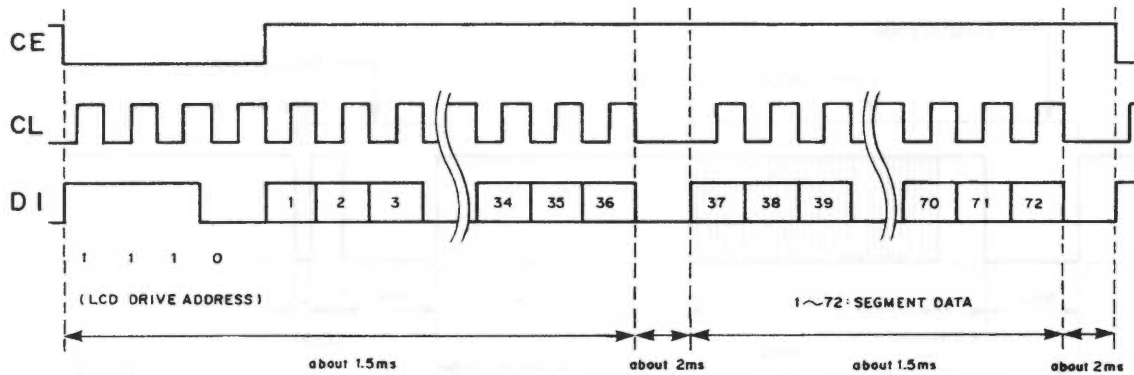


Fig.D

● **MODE VS OUTPUT**

OUTPUT PORT	MODE	STOP	PLAY	FF	REW	CUE	REVIEW	REC PAUSE	REC PLAY
1: LINE MUTE	※1	H	L	H	H	H	H	H	L
	※2	L	L	L	L	L	L	L	L
2: REC MUTE		H	H	H	H	H	H	H	L
9: GAIN SELECT		L	H	L	L	L	L	L	H
43: REEL MOTOR (+)		L	H	H	L	H	L	L	H
44: REEL MOTOR (-)		L	L	L	H	L	H	L	L
45: SOLENOID		H	H	H	H	H	H	H	H
46: SOLENOID HOLD		H	L	L	L	L	L	H	L
47: MAIN MOTOR		H	L	H	H	L	L	H	L
50: BIAS		L	L	L	L	L	L	L	H

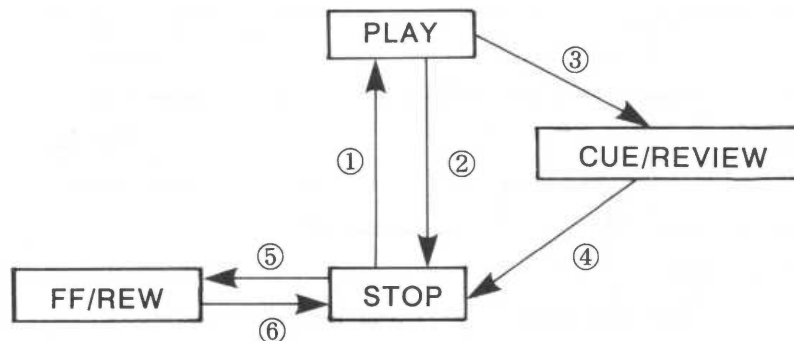
※1 : MONITOR=TAPE  
 ※2 : MONITOR=SOURCE

● **MECHANISM DRIVE**

Construction : 2 motors.1 solenoid.

Operating system : Power Assisting operation system by rotation of Intermittent Gear which has been taken out of the Trigger of Solenoid and Fly-wheel.

Mode change :



MODE CHANGE	SOLENOID	MAIN MOTOR
① STOP → PLAY	2 time ON, after that it retains	ON
② PLAY → STOP	Freed from retaining status	ON
③ PLAY → CUE/REVIEW	A moment freed from retaining status, solenoid ON, after that it retains	ON
④ CUE/REVIEW → STOP	Freed from retaining status	ON
⑤ STOP → FF/REW	1 time ON, after that it retains	OFF
⑥ FF/REW → STOP	Freed from retaining status	OFF

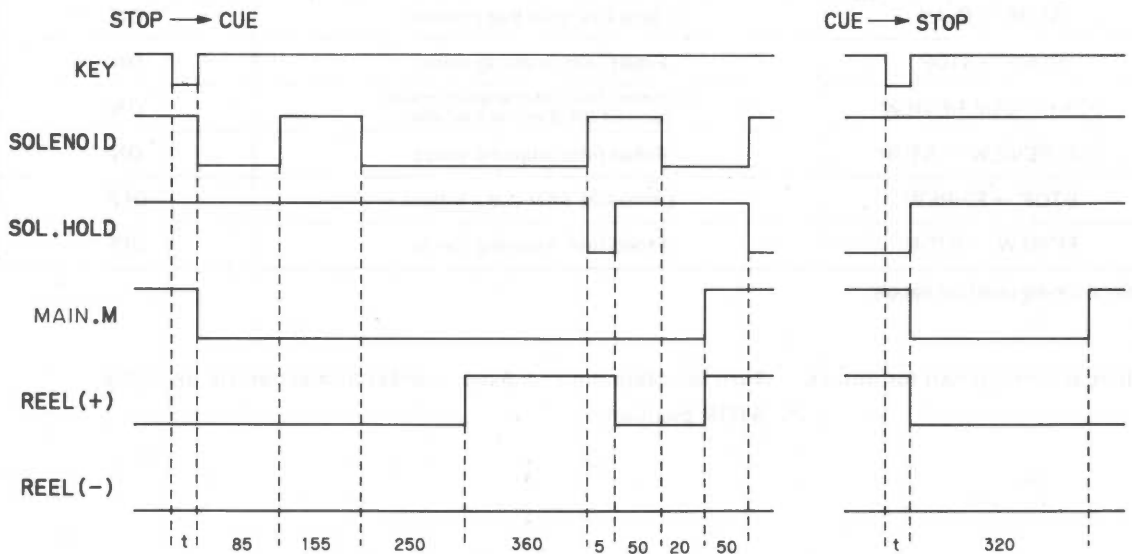
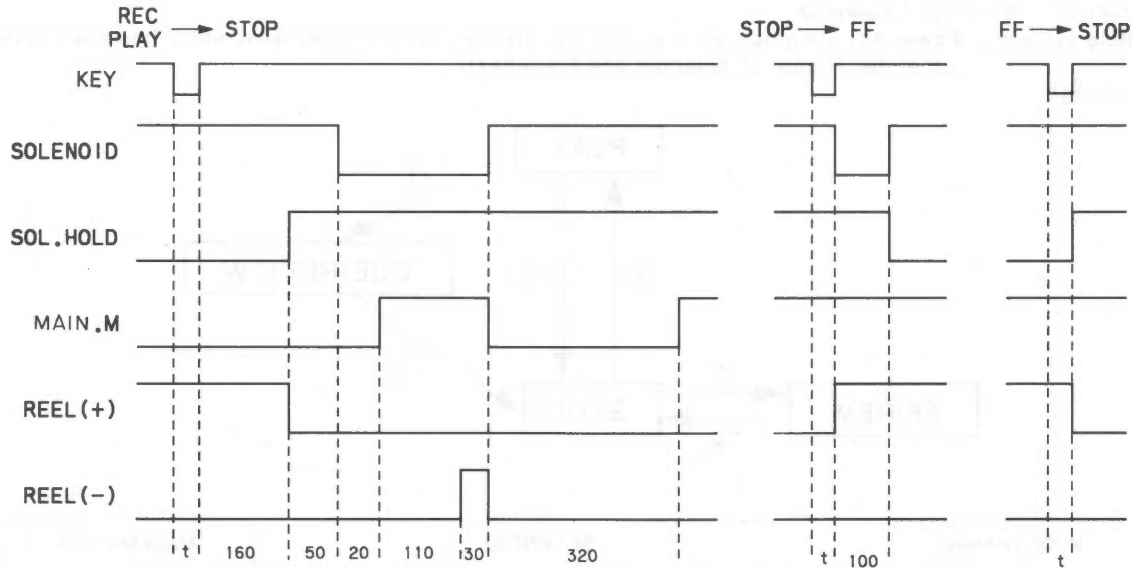
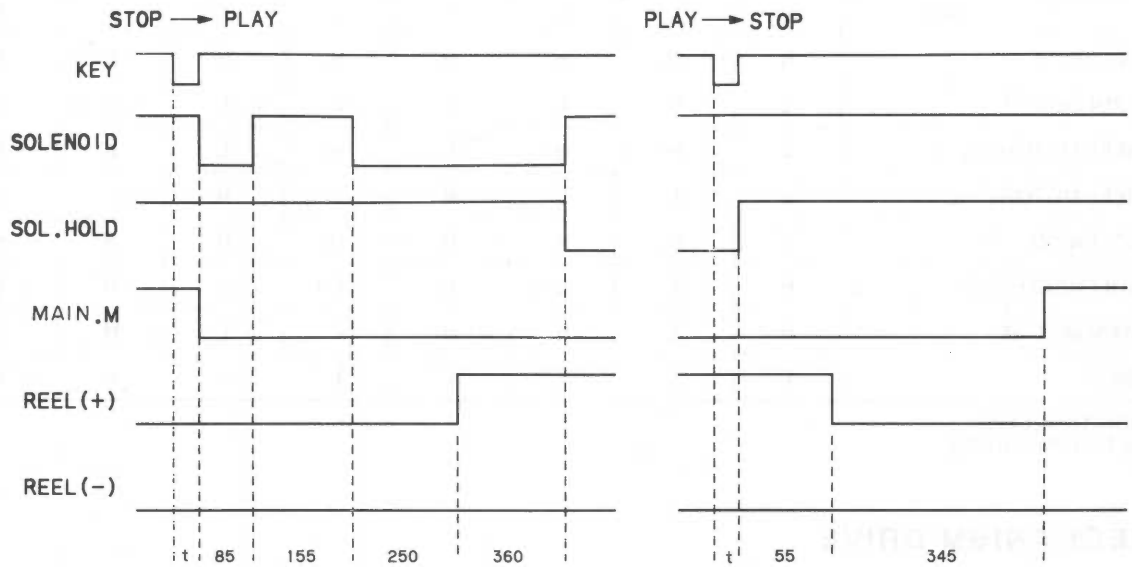
※ Refer to timing chart for details.

Operation at Timingchart for details : Turn the Main motor 1.6sec, in order to mechanism be at the STOP position.

■ TIMING CHART

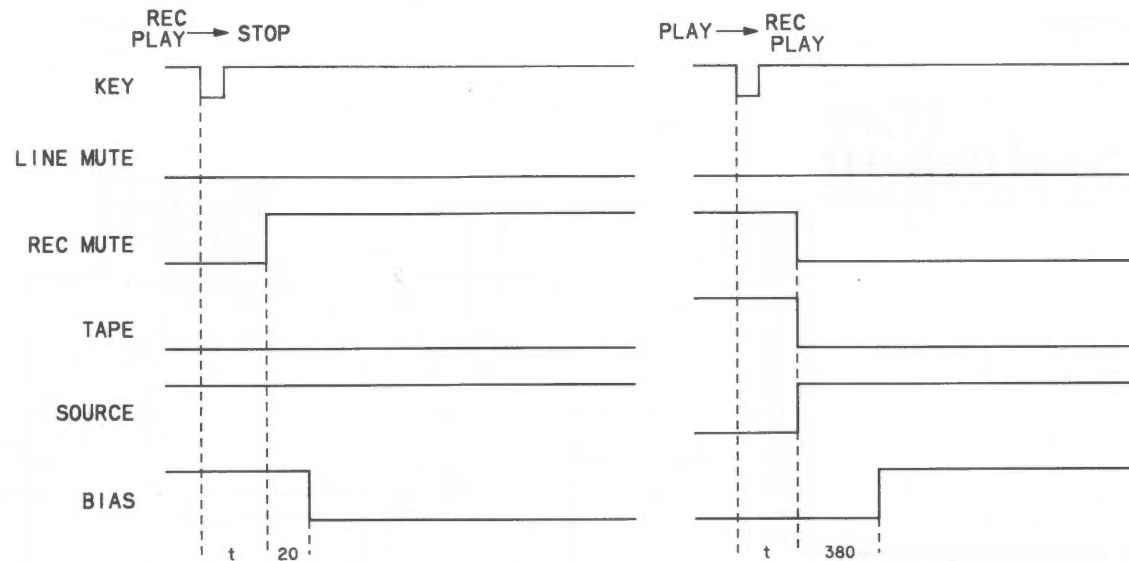
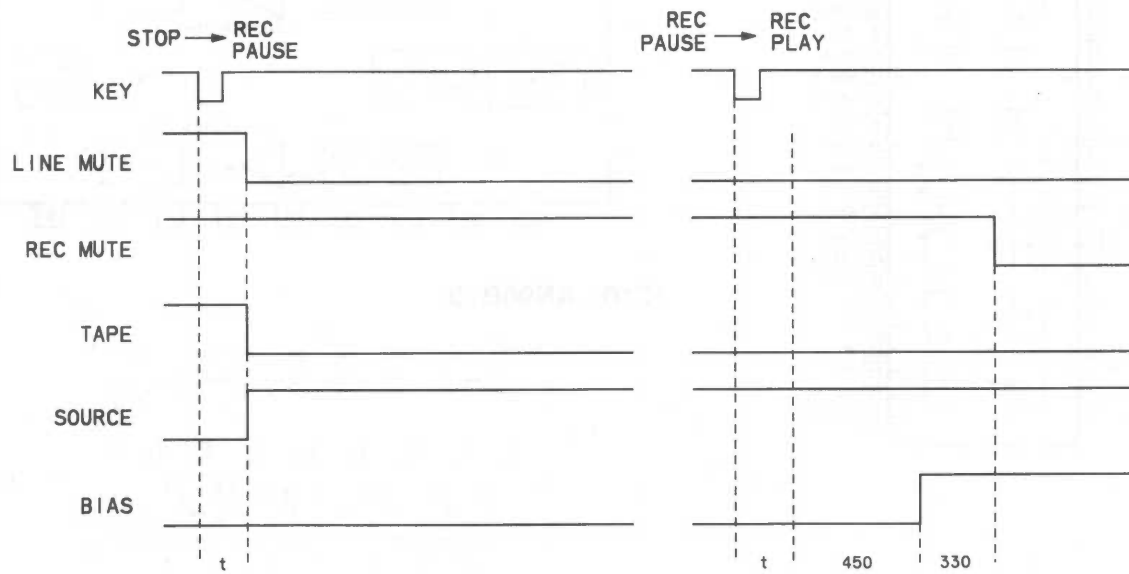
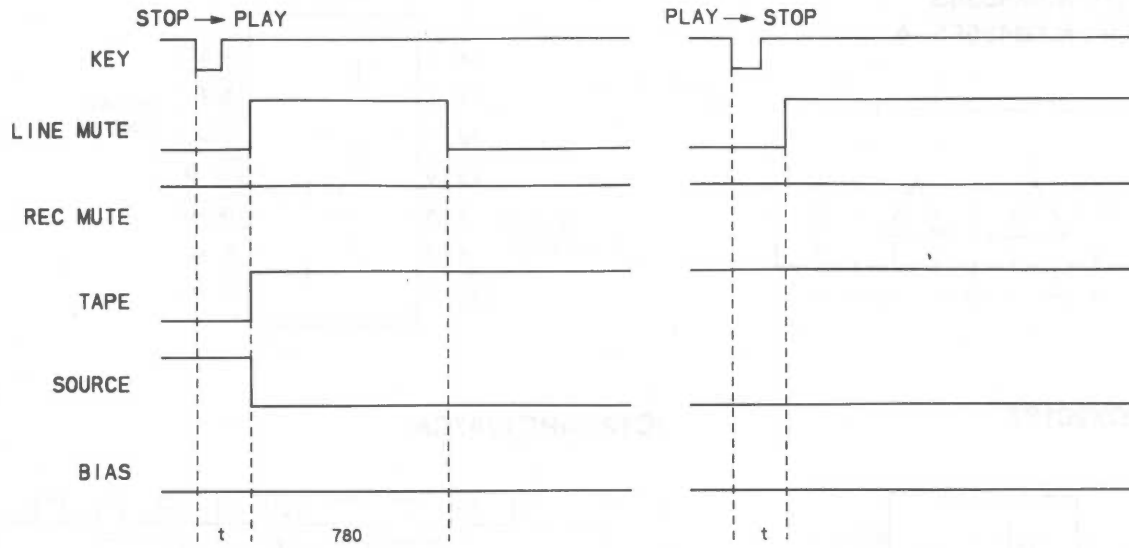
● MECHANISM DRIVE TIMING ( $\mu$ -COM OUTPUT)

t: about 10ms (Delay from key input.)



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● AMP SELECTOR TIMING



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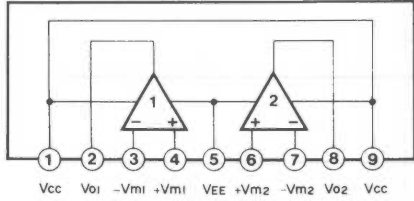


IC BLOCK

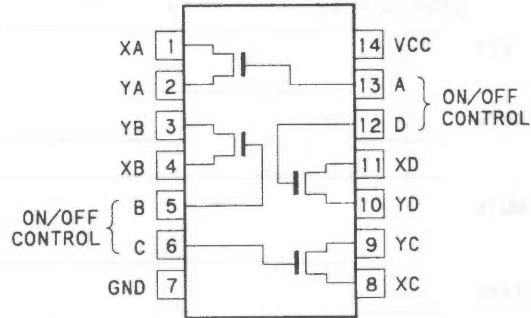
IC1 : AN6557F

IC2,6,7 : NJM4558S

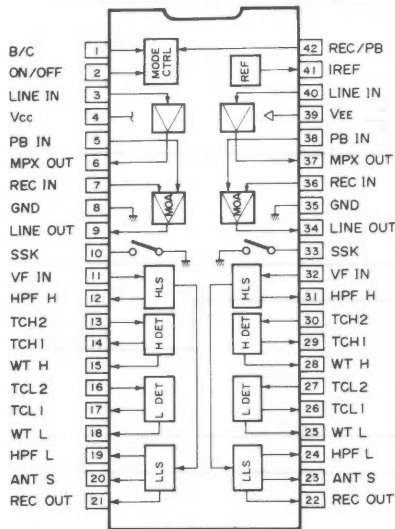
IC5,8,9 : NJM4556S-A



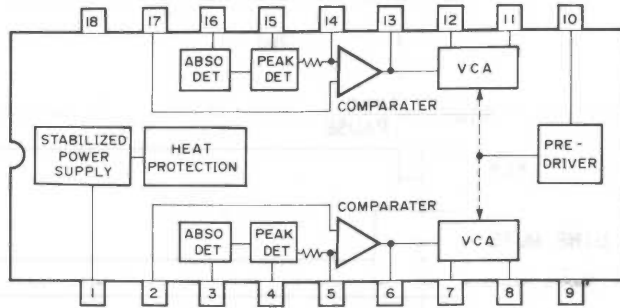
IC4 : BU4066B



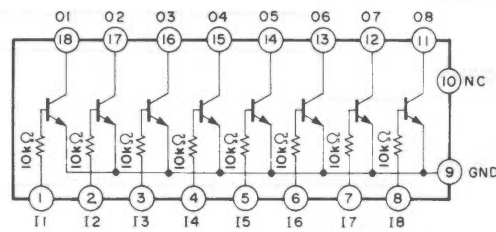
IC3,11 : CX20187



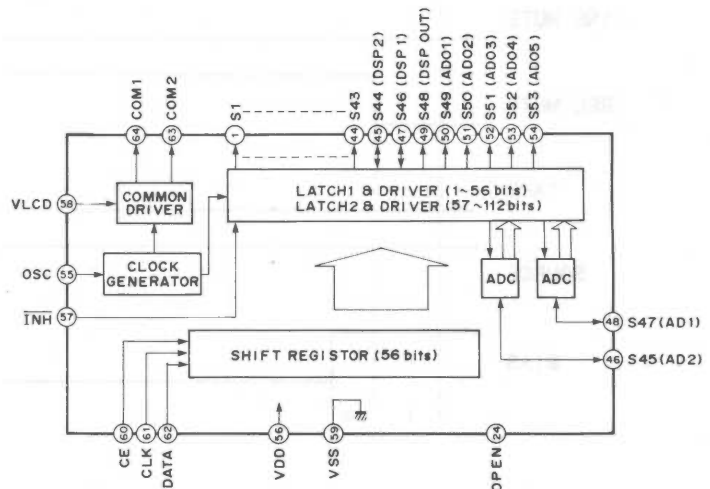
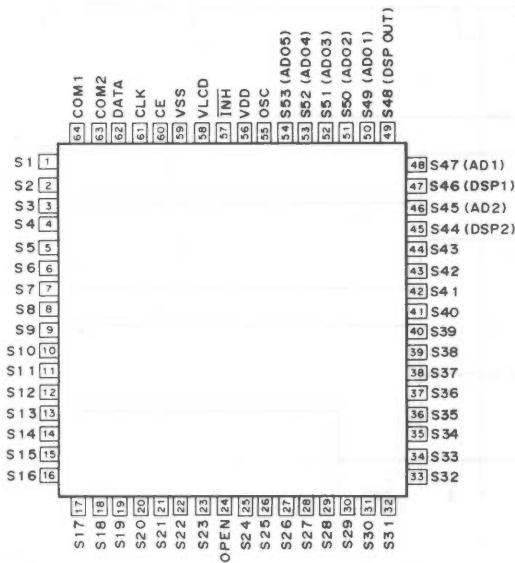
IC12 : μPC1297CA



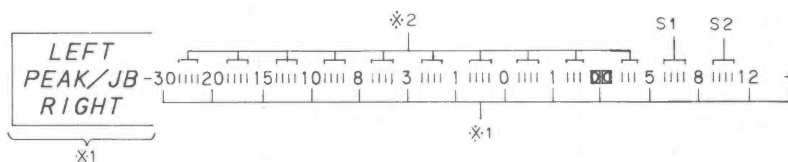
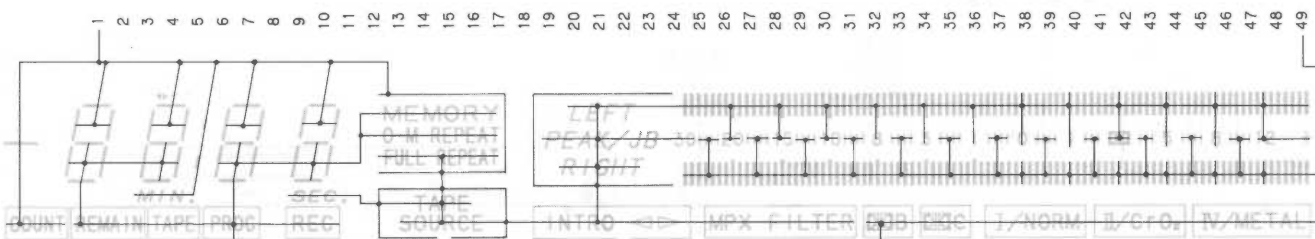
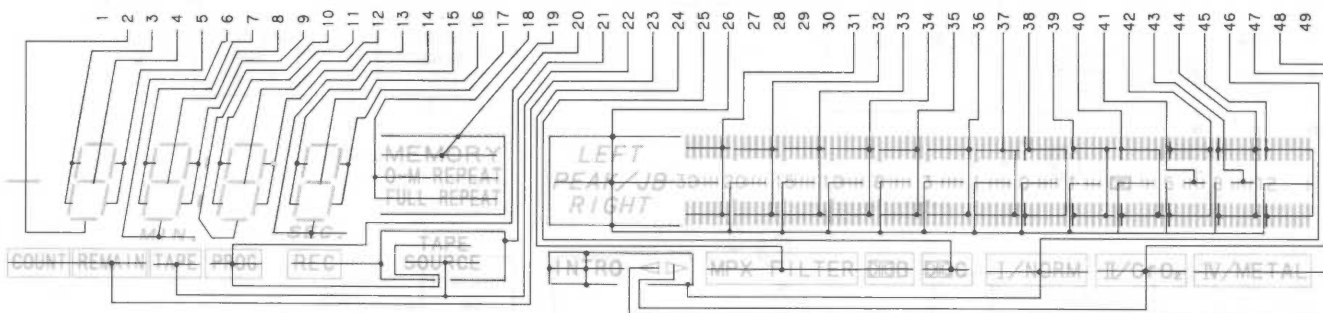
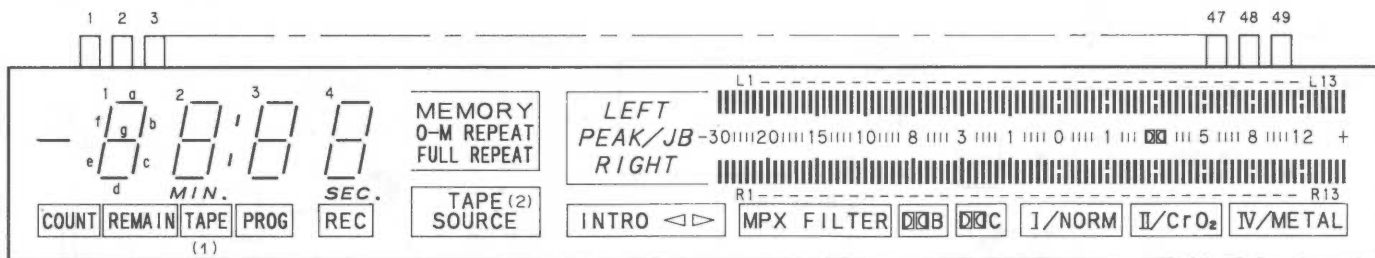
IC10 : AN90B20



IC401 : LC7583

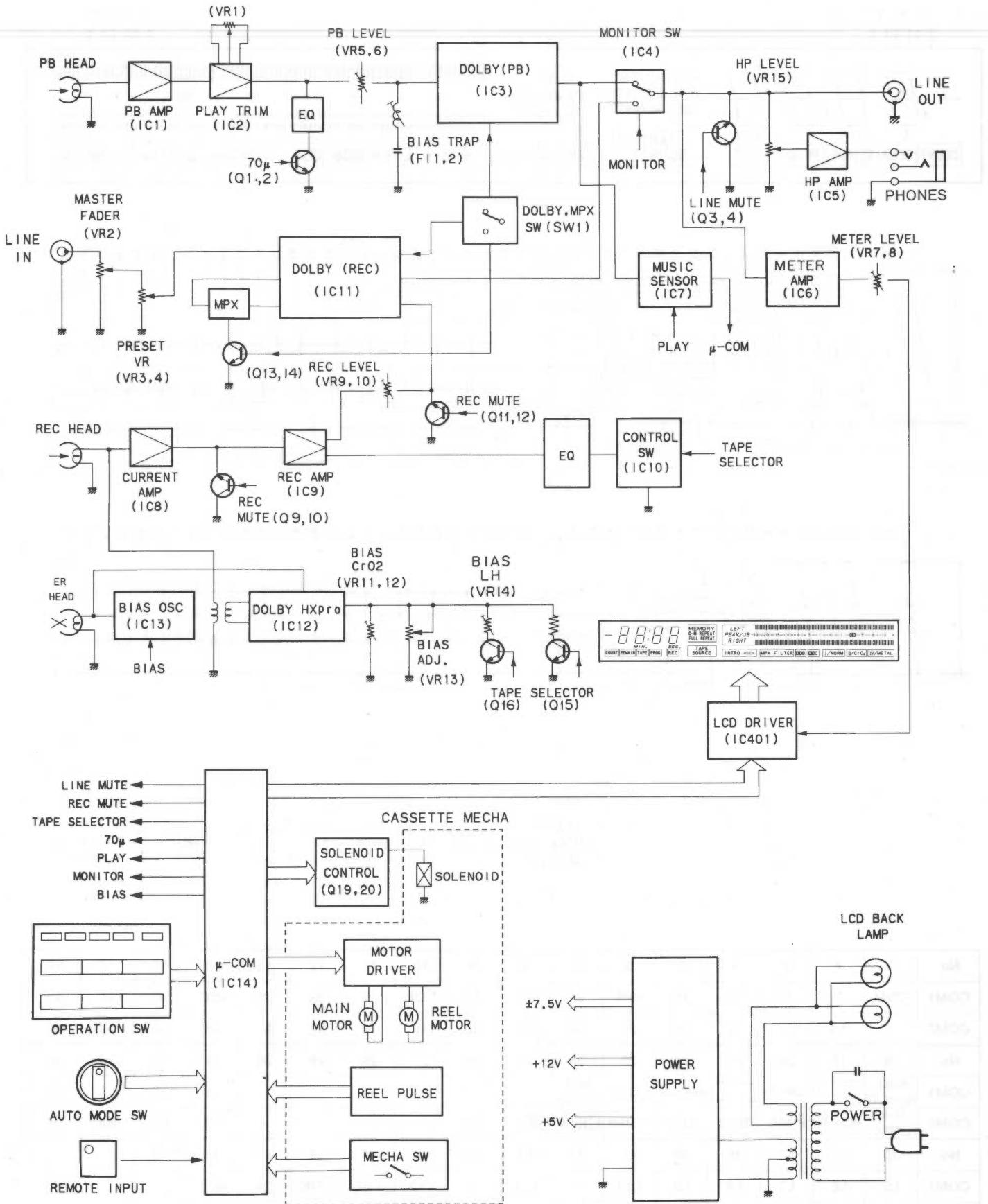


LCD DATA



No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
COM1	COM	$\square$	1f	1a	1b	MIN.	2f	2a	2b	COL	3f	3a	3b	SEC.	4f	4a	4b
COM2	—	1d	1e	1g	1c	2d	2e	2g	2c	3d	3e	3g	3c	4d	4e	4g	4c
No.	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
COM1	FULL REPEAT	$\square$	TAPE(2)	$\square$	SOURCE	CONT	MPX FILTER	—	$\times 1$	—	—	—	—	L1	L2	L3	L4
COM2	O-M REPEAT	MEMORY	PROG	REC	TAPE(1)	REMAIN	$\square$ B	$\square$ C	$\times 2$	—	—	—	—	R1	R2	R3	R4
No.	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49		
COM1	L5	L6	L7	L8	L9	L10	—	L11	—	L12	L13	INTRO	$\triangle$	$\triangle$	—		
COM2	R5	R6	R7	R8	R9	R10	S1	R11	S2	R12	R13	I/NORM	II/ CrO <sub>2</sub>	IV/ METAL	COM		

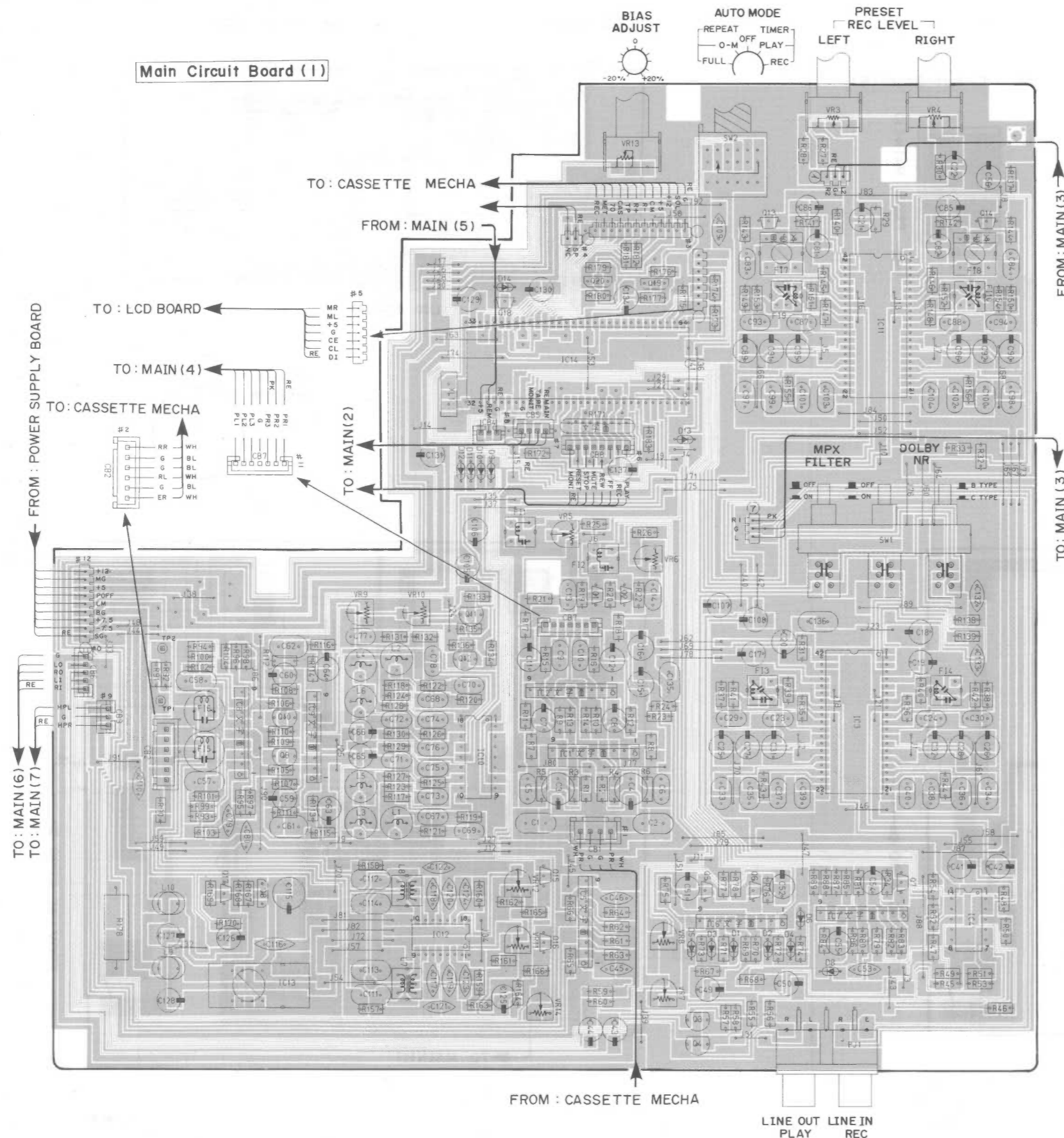
■ BLOCK DIAGRAM



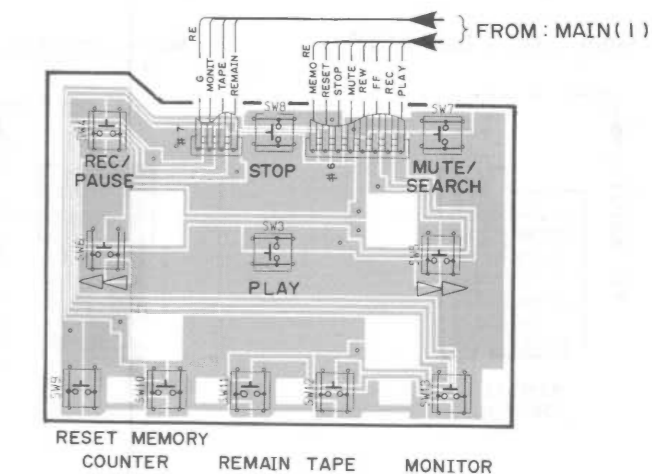
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PRINTED CIRCUIT BOARD(Pattern side) Notes) 文字面 :Component side

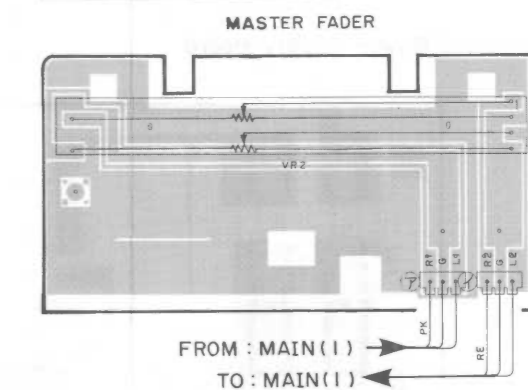
Main Circuit Board (1)



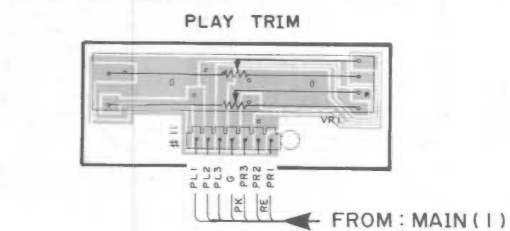
Main Circuit Board (2)



Main Circuit Board (3)

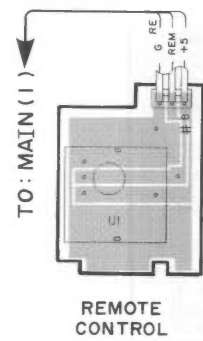


Main Circuit Board (4)

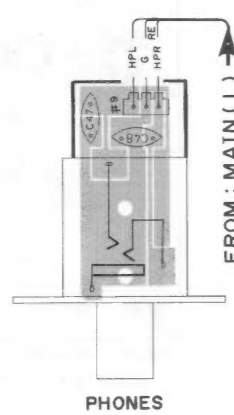


PRINTED CIRCUIT BOARD(Pattern side)

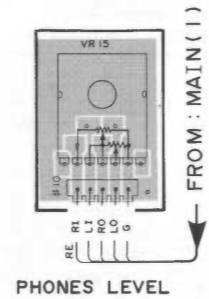
Main Circuit Board (5)



Main Circuit Board (7)

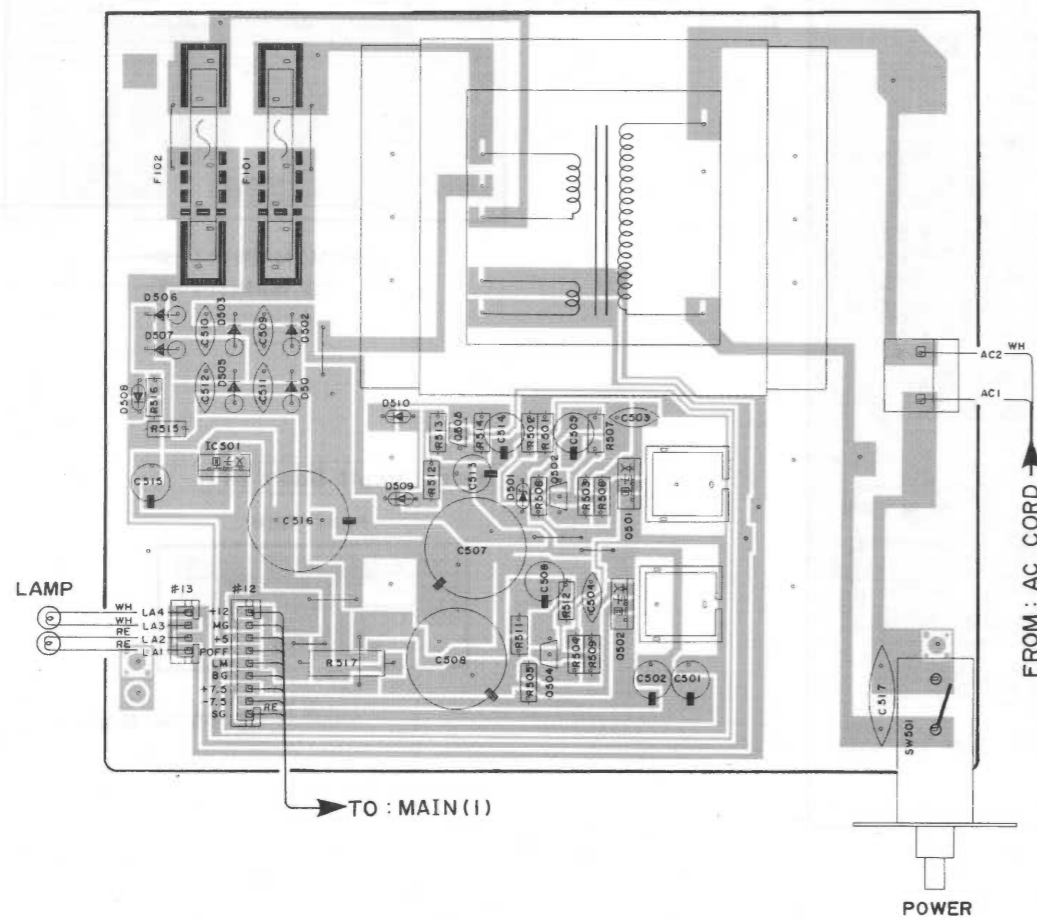


Main Circuit Board (6)

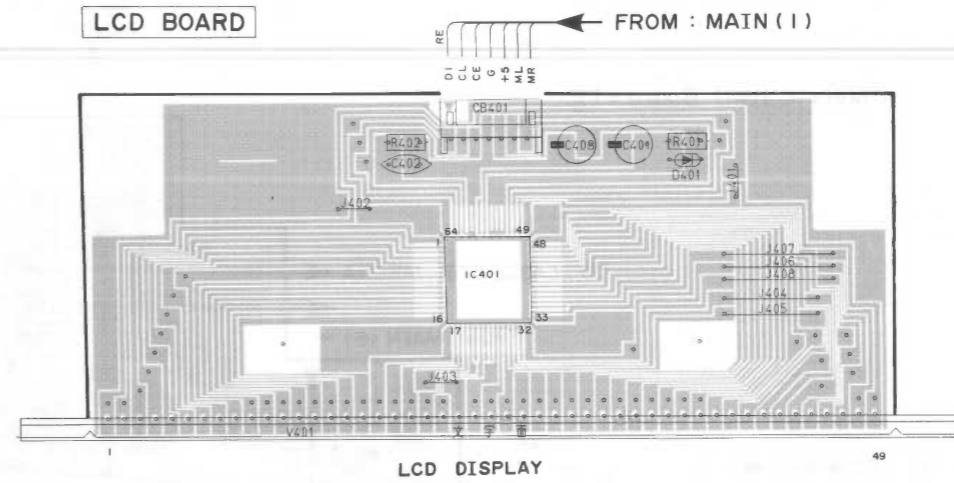


Power Supply Board

● FUSE	
F101, 102	
U, C, R	1.0A 250V
A, B	800mA 250V

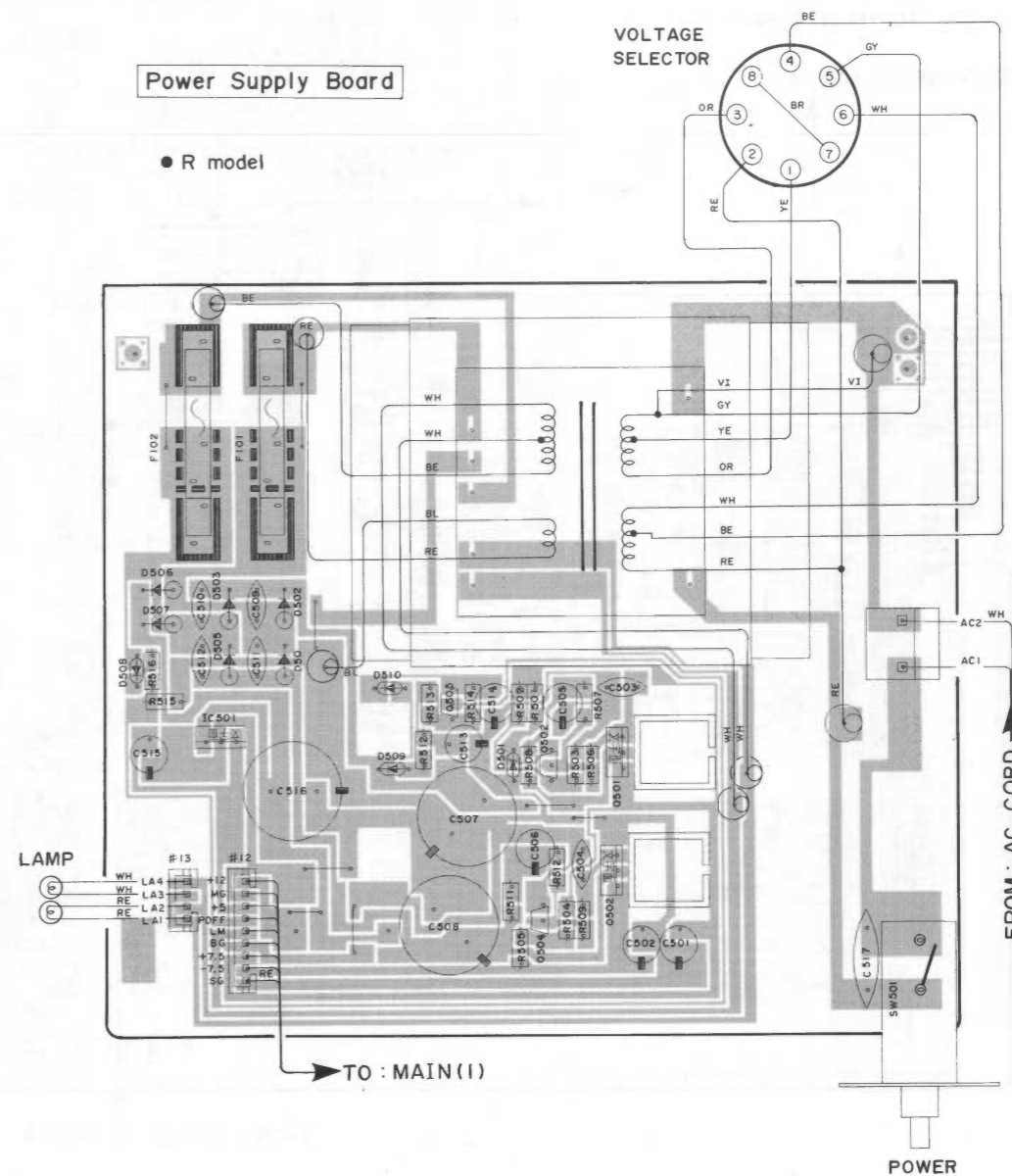


LCD BOARD



Power Supply Board

● R model

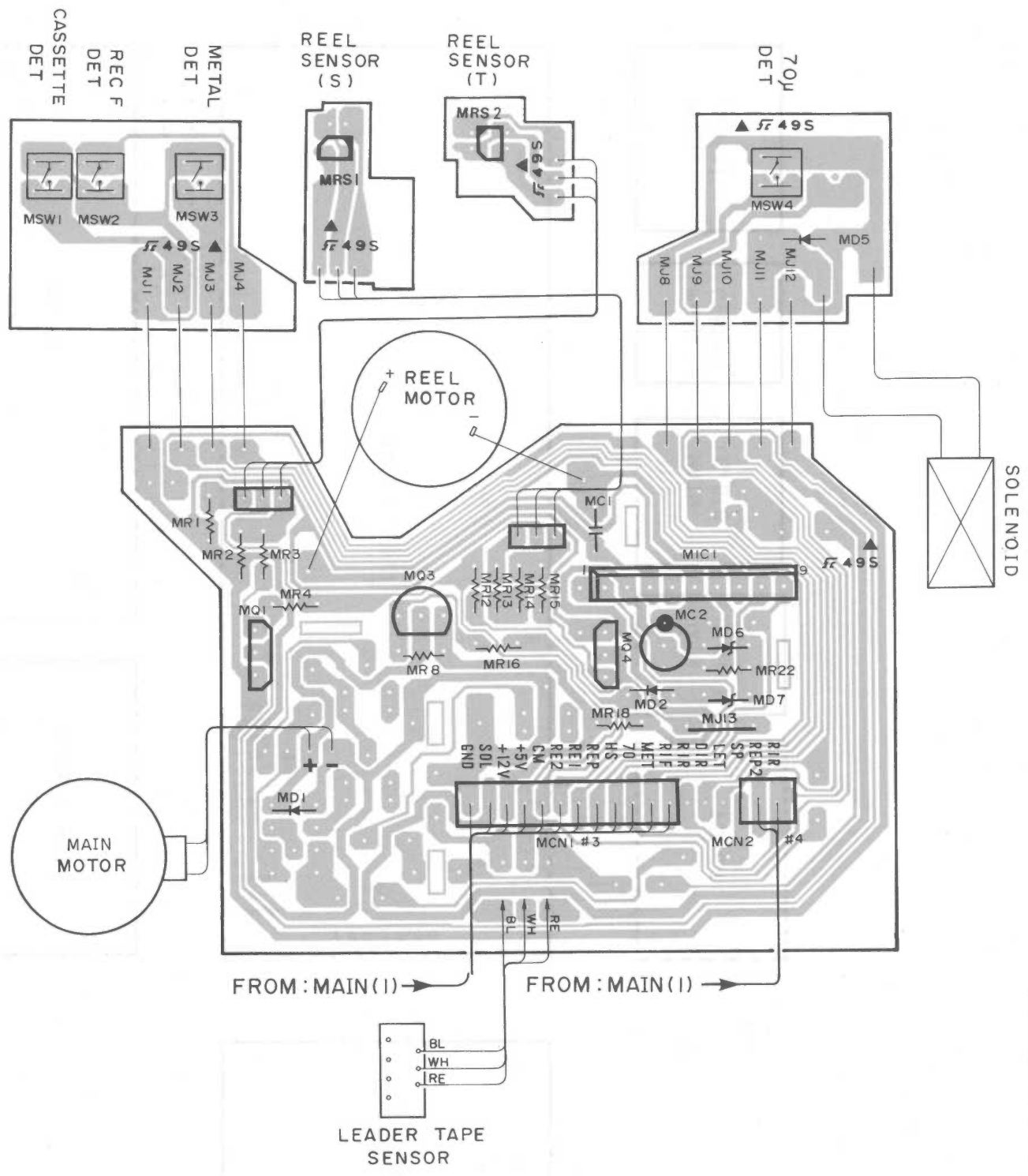




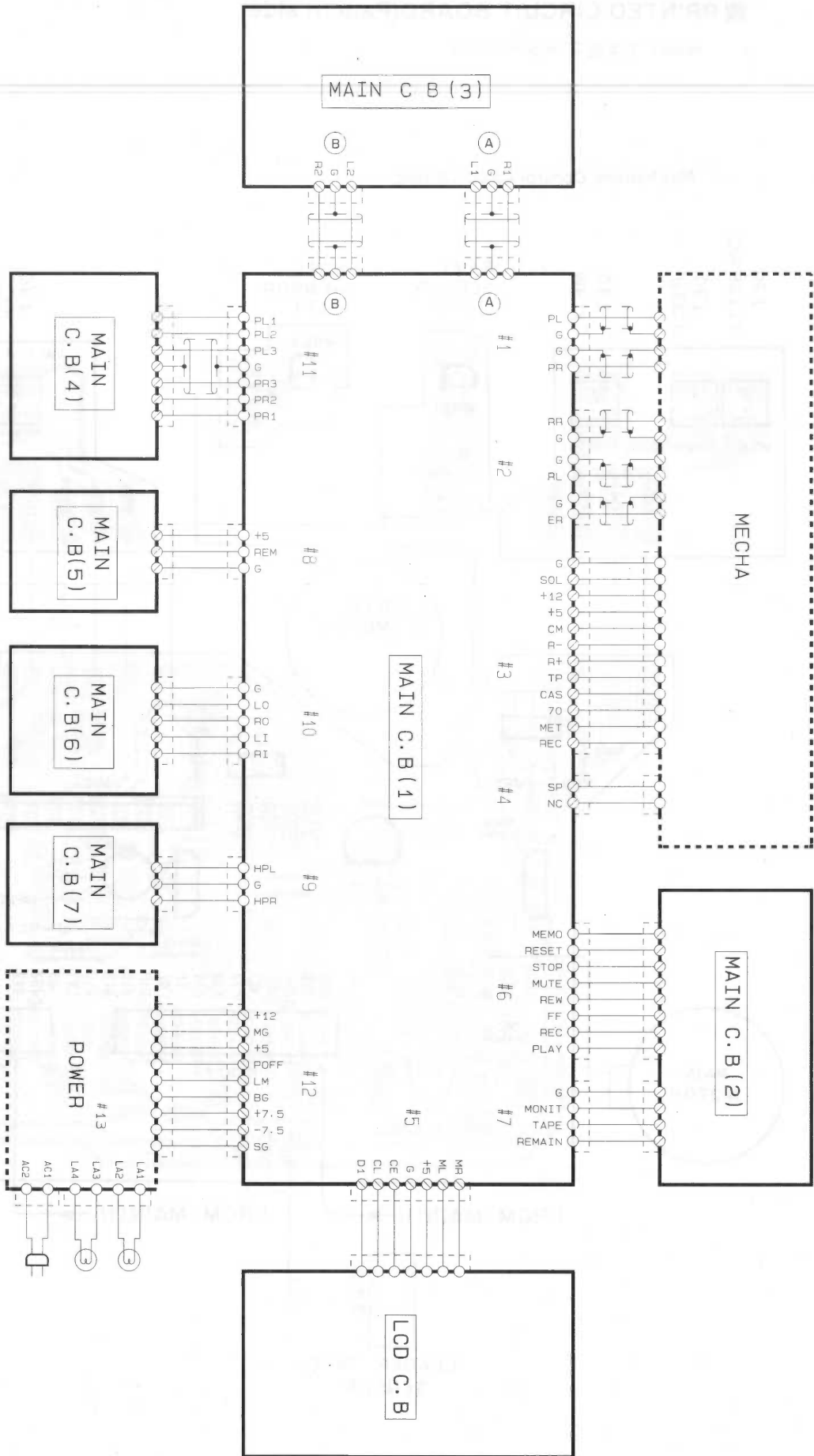
# PRINTED CIRCUIT BOARD(Pattern side)

Notes) 文字面 :Component side

## Mechanism Control Circuit Board

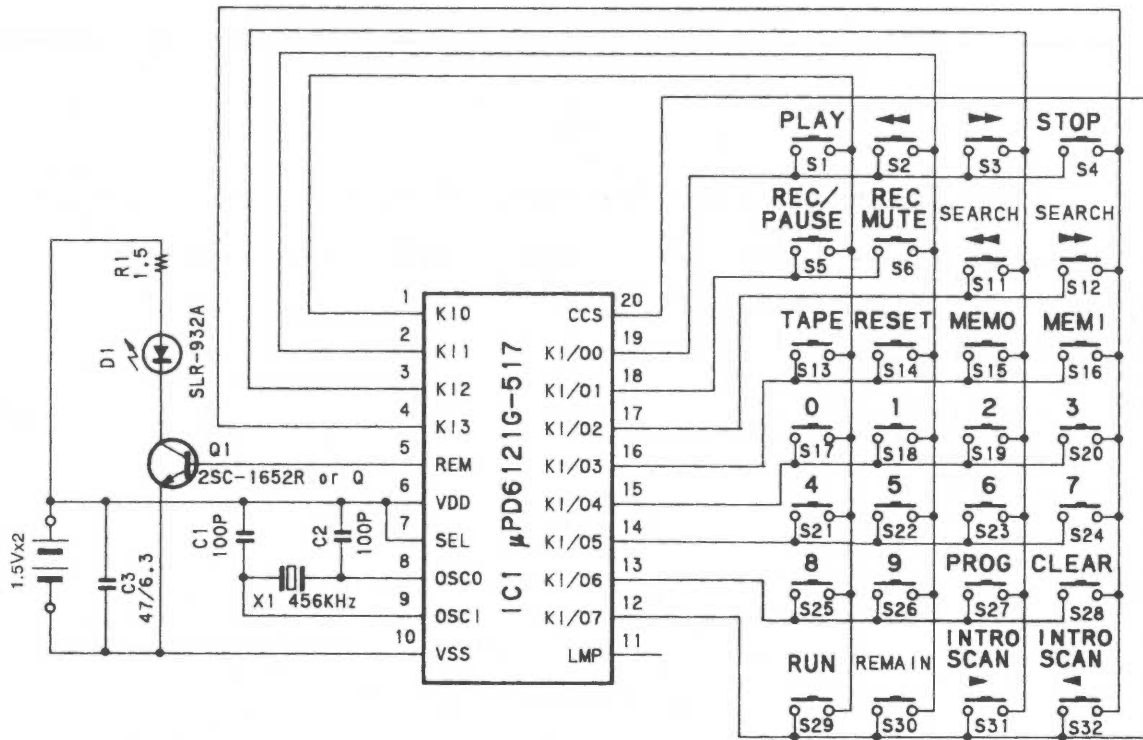


WIRING





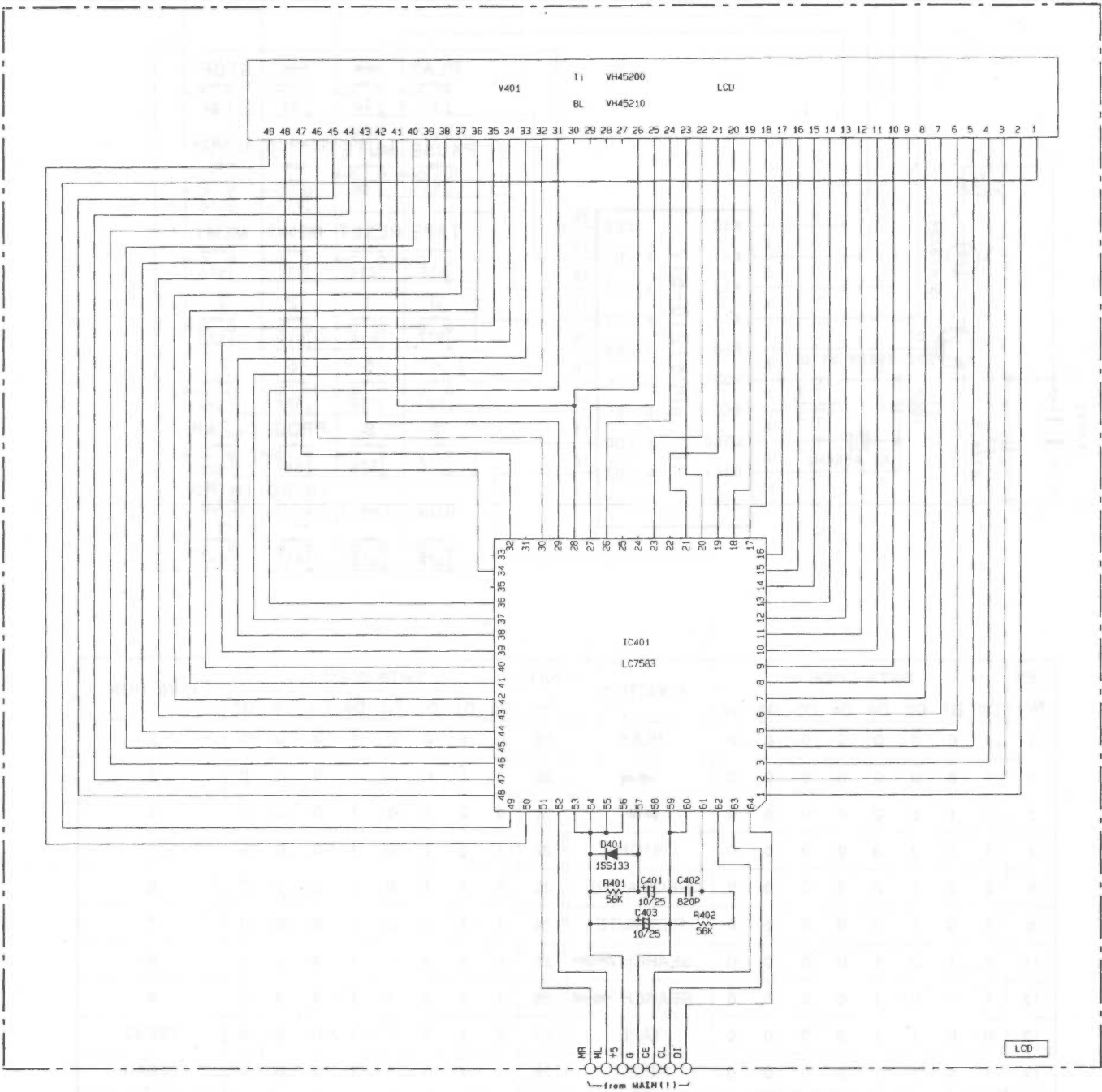
■ REMOTE CONTROL TRANSMITTER



KEY No.	D0	D1	D2	D3	D4	D5	D6	D7	FUNCTION	KEY No.	D0	D1	D2	D3	D4	D5	D6	D7	FUNCTION
1	0	0	0	0	0	0	0	0	PLAY	19	0	1	0	0	1	0	0	0	2
2	1	0	0	0	0	0	0	0	◀◀	20	1	1	0	0	1	0	0	0	3
3	0	1	0	0	0	0	0	0	▶▶	21	0	0	1	0	1	0	0	0	4
4	1	1	0	0	0	0	0	0	STOP	22	1	0	1	0	1	0	0	0	5
5	0	0	1	0	0	0	0	0	REC/PAUSE	23	0	1	1	0	1	0	0	0	6
6	1	0	1	0	0	0	0	0	REC MUTE	24	1	1	1	0	1	0	0	0	7
11	0	1	0	1	0	0	0	0	SEARCH ▶▶	25	0	0	0	1	1	0	0	0	8
12	1	1	0	1	0	0	0	0	SEARCH ◀◀	26	1	0	0	1	1	0	0	0	9
13	0	0	1	1	0	0	0	0	TAPE	27	0	1	0	1	1	0	0	0	PROG
14	1	0	1	1	0	0	0	0	RESET	28	1	1	0	1	1	0	0	0	CLEAR
15	0	1	1	1	0	0	0	0	MEMO	29	0	0	1	1	1	0	0	0	RUN
16	1	1	1	1	0	0	0	0	MONI	30	1	0	1	1	1	0	0	0	REMAIN
17	0	0	0	0	1	0	0	0	0	31	0	1	1	1	1	0	0	0	INTRO SCAN ▶
18	1	0	0	0	1	0	0	0	1	32	1	1	1	1	1	0	0	0	INTRO SCAN ◀

SCHEMATIC DIAGRAM

REMOTE CONTROL TRANSMITTER



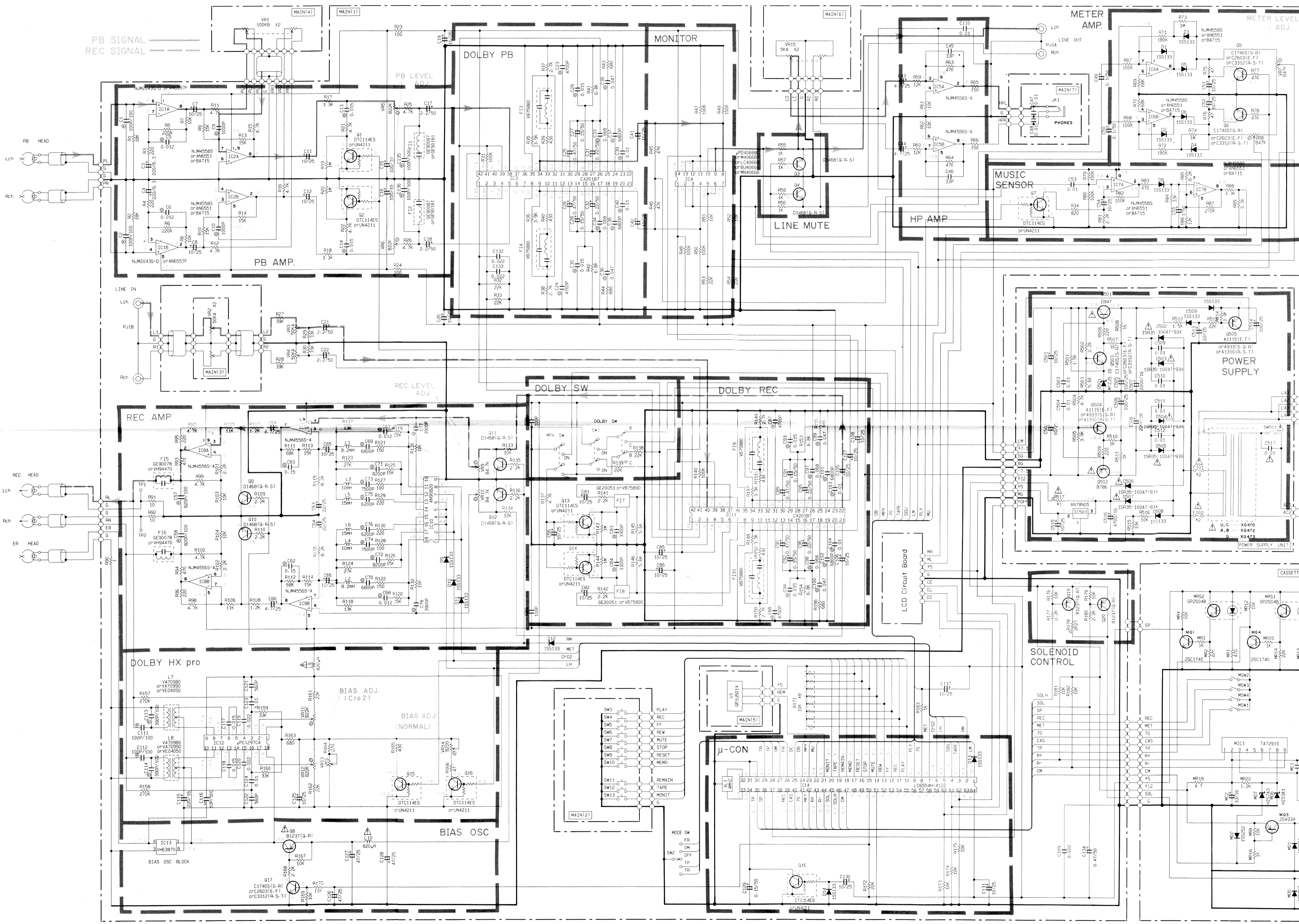
RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
☑	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊗	METAL PLATE RESISTOR
⊠	FIRE PROOF CARBON FILM RESISTOR
□	SEMENT MOLDED RESISTOR
⊙	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

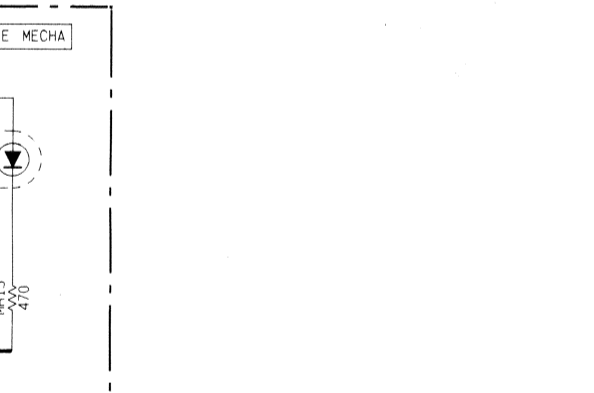
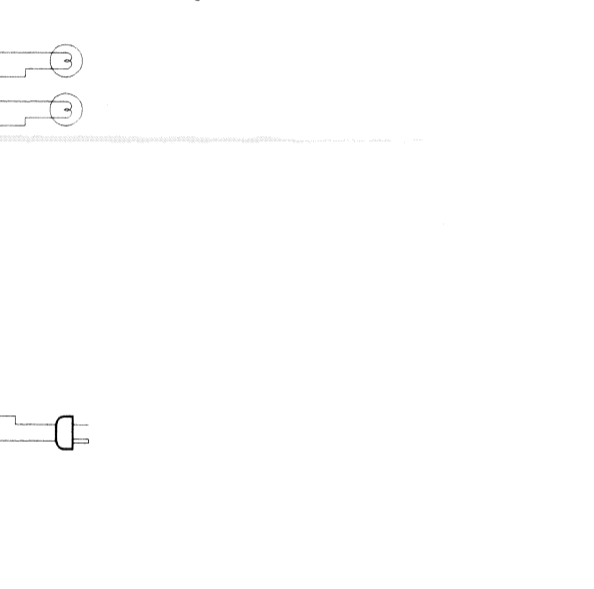
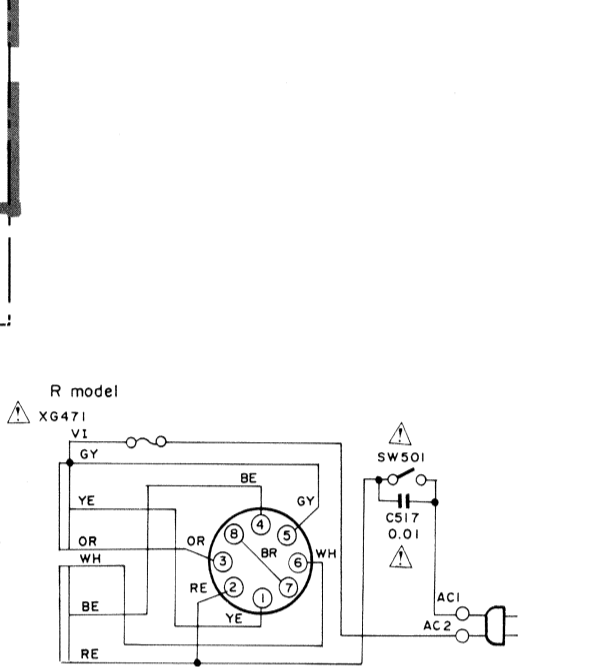
CAPACITOR

REMARKS	PARTS NAME	Symbol
NO MARK	ELECTROLYTIC CAPACITOR	⊥
⊗	TANTALUM CAPACITOR	⊥
NO MARK	CERAMIC CAPACITOR	⊥
⊙	POLYESTER FILM CAPACITOR	⊥
○	POLYSTYRENE FILM CAPACITOR	⊥
⊖	MICA CAPACITOR	⊥
⊕	POLYPROPYLENE FILM CAPACITOR	⊥
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR	⊥

SCHEMATIC DIAGRAM



REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
NO MARK	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊖	POLYSTYRENE FILM CAPACITOR
⊕	MICA CAPACITOR
⊙	POLYPROPYLENE FILM CAPACITOR
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR
RESISTOR	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
⊖	CARBON FILM RESISTOR (1/4W)
⊕	METAL OXIDE FILM RESISTOR
⊙	METAL FILM RESISTOR
⊗	METAL PLATE RESISTOR
⊖	FINE PROOF CARBON FILM RESISTOR
⊕	SEMENT MOLDED RESISTOR
⊙	SEMI VARIABLE RESISTOR
⊗	CHIP RESISTOR



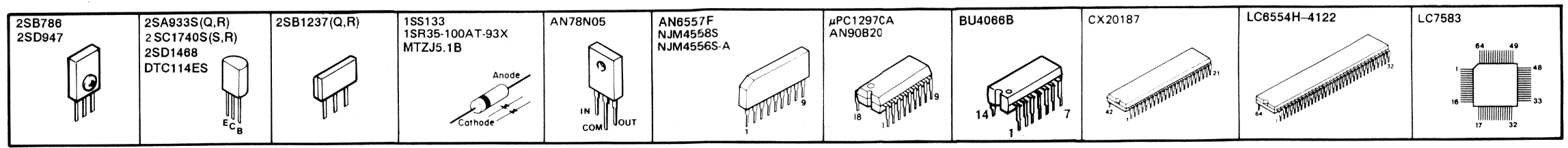
NO.	RES.	VAL.	U.C.	A.B.G.
*1	R517	SHORT	1P0-22	SHORT
*2	F101:102	T1:0A250V	1:0A250V	T800MA250V

NOTICE

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

LAST NO.	LN LISTED NO.
C	137
R	183
Q	20
D	14
IC	14

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODE AND ICs.




• The voltages are measured at SOURCE side.  
 • All voltages are measured with a 10MΩ/V DC electric volt meter.  
 • Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.  
 • Schematic diagram is subject to change without notice.

# PARTS LIST

## ■ WARNING

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Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.

● Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistors, refer to P.36.

## ■ ELECTRICAL PARTS

Ref. NO.	PART NO.	Description			部 品 名	Remarks	Markets	ランク
	VHG36800	MAIN CIRCUIT BOARD			メインシート			
	FG211330	CERAMIC CAP	33pF	50V	セラコン	C45,46		
	FG212100	CERAMIC CAP	100pF	50V	セラコン	C79,80		
	FG112560	CERAMIC CAP	560pF	50V	セラコン	C121,120		
	FG244100	CERAMIC CAP	0.01uF	50V	セラコン	C47,48,53,110,123,124		
	FG244150	CERAMIC CAP	0.015uF	50V	セラコン	C117,118		
	FG244220	CERAMIC CAP	0.022uF	50V	セラコン	C109,119,120,132,133		
	FG211100	CERAMIC CAP	10pF	50V	セラコン	C116		
	FC444120	MYLAR CAP	0.012uF	50V	マイラーコン	C5,6		
	FA153100	MYLAR CAP	1000pF	50V	マイラーコン	C9,10		
	FA153330	MYLAR CAP	3300pF	50V	マイラーコン	C83,84		
	FA153390	MYLAR CAP	3900pF	50V	マイラーコン	C77,78		
	FA153470	MYLAR CAP	4700pF	50V	マイラーコン	C23,24,87,88		
	FA153620	MYLAR CAP	6200pF	50V	マイラーコン	C75,76		
	FA153680	MYLAR CAP	6800pF	50V	マイラーコン	C37,38,69,70,101,102		
	FA153750	MYLAR CAP	7500pF	50V	マイラーコン	C73,74		
	FA153820	MYLAR CAP	8200pF	50V	マイラーコン	C71,72		
	FA154100	MYLAR CAP	0.01uF	50V	マイラーコン	C39,40,103,104		
	UA254120	MYLAR CAP	0.012uF	50V	マイラーコン	C67,68		
	FA154150	MYLAR CAP	0.015uF	50V	マイラーコン	C13,14,29,30,93,94		
	UA254470	MYLAR CAP	0.047uF	50V	マイラーコン	C35,36,99,100		
	UA254680	MYLAR CAP	0.068uF	50V	マイラーコン	C33,34,97,98		
	FA155150	MYLAR CAP	0.15uF	50V	マイラーコン	C61,62		
	UT452100	POLYPROPYLEN FILM CAP	100pF	100V	PPコン	C1,2,111,112,135,136		
	UT452390	POLYPROPYLEN FILM CAP	390pF	100V	PPコン	C113,114		
	UT452820	POLYPROPYLEN FILM CAP	820pF	100V	PPコン	C57,58		
	UH146470	ELE. CAP	4.7uF	25V	ケミコン	C43,44,59,60		
	UH147100	ELE. CAP	10uF	25V	ケミコン	C7,8,11,12,41,42,51,54	56,85,86,	
	UH147470	ELE. CAP	47uF	25V	ケミコン	81,82,105-108,125,130,	131,137	
	UH147470	ELE. CAP	47uF	25V	ケミコン	C126-128		
	UJ138220	ELE. CAP	220uF	16V	ケミコン	C115		
	UJ165100	ELE. CAP	0.1uF	50V	ケミコン	C49		
	UW565150	ELE. CAP	0.15uF	50V	ケミコン	C27,28,91,92,129		
	UJ165220	ELE. CAP	0.22uF	50V	ケミコン	C31,32,95,96,134		
	UH165470	ELE. CAP	0.47uF	50V	ケミコン	C25,26,89,90		
	UH166100	ELE. CAP	1uF	50V	ケミコン	C55		
	UH166220	ELE. CAP	2.2uF	50V	ケミコン	C17,18,21,22		
	VE017200	ELE. CAP	100uF	10V	ケミコン	C15,16		
	VE018300	ELE. CAP	10uF	25V	ケミコン	C19,20,85,86		
	VE392400	ELE. CAP	220uF	6.3V	ケミコン	C3,4		
	VE394300	ELE. CAP	22uF	25V	ケミコン	C63,64		
	VB758900	MPX FILTER			MPXフィルター	F17,8		
	GE900780	BIAS TRAP COIL	105KHZ		トラップコイル	F15,6		
	GE900870	BIAS TRAP COIL	105KHZ		トラップコイル	F11,2		
	VB758800	SKEWING COIL			スキューイングコイル	F13,4,9,10		
	GE900960	COIL	820uH		コイル	L9,10		
	GE901620	COIL	8.2mH		コイル	L1,2		
	GE901630	COIL	10mH		コイル	L3,4		
	GE901650	COIL	15mH		コイル	L5,6		
	VA709900	COIL,STEP UP	105KHZ		ステップアップコイル	L7,8		

\* : New Parts (新規部品)

ランク : Japan only

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Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VD827600	CERAMIC RESONATOR	4MHZ	セラミック振動子	XL1	
	HL324270	METAL OXIDE RESISTOR	27Ω 2W	酸化金属被膜抵抗	R178	
	VE111400	RESISTOR ARRAY	10KΩ×8	抵抗アレイ	R171	
	VB862500	PRE-SET POTENTIOMETER	B220Ω	半固定VR	VR14	
	VB861400	PRE-SET POTENTIOMETER	B4.7KΩ	半固定VR	VR9,10	
	VB861600	PRE-SET POTENTIOMETER	B22KΩ	半固定VR	VR5,6,11,12	
	VB861800	PRE-SET POTENTIOMETER	B47KΩ	半固定VR	VR7,8	
	VE613200	POTENTIOMETER	B100KΩ	スライドVR	VR1	
	VA878000	POTENTIOMETER	A50KΩ	二連スライドVR	VR2	
	VD913700	POTENTIOMETER	A50KΩ	ロータリーVR	VR3,4	
	VE857400	POTENTIOMETER	特2KΩ	ロータリーVR	VR13	
	VF113700	POTENTIOMETER	A5KΩ	二連ロータリーVR	VR15	
	VE613300	TRANSISTOR	2SB1237 Q,R	トランジスタ	Q8,19,20	
	iC174070	TRANSISTOR	2SC1740S R,S	トランジスタ	Q5,6,17	
	VA710000	TRANSISTOR	2SD1468	トランジスタ	Q3,4,9-12	
	VD678700	DIGITAL TRANSISTOR	DTC114ES	デジタルトランジスタ	Q1,2,7,13-16,18	
	iF004600	DIODE	1SS133 T-77	ダイオード	D1-6,8-14	
	iG076800	IC	NJM4558S	IC	IC2,6,7	
	iG077410	IC	NJM4556S-A	IC	IC5,8,9,	
	XD083001	IC	AN6557F	IC	IC1	
	XD148001	IC	BU4066B	IC	IC4	
	XA300001	IC	UPC1297CA	IC	IC12	
	XB298001	IC	CX20187	IC	IC3,11	
	XG446A00	IC	LC6554H-4122	IC	IC14	
	iG089900	TRANSISTOR ARRAY	AN90B20	トランジスタ アレイ	IC10	
	VH638700	DERAY EQ,RF	105KHZ	インダクタ複合素子	IC13	
	VF926500	RECEIVE UNIT	GP1U501X	リモコン受光ユニット	U1	
	KA501960	ROTARY SWITCH		ロータリーSW	SW2	
	VE327300	PUSH SWITCH		プッシュSW	SW3-13	
	VE613100	PUSH SWITCH		プッシュSW	SW1	
	VB097300	PHONES JACK	LGR4512	ホーンジャック	JK1	
	LB401050	PIN JACK	T5859-A	ピンジャック	PJ1	
	LB918040	BASE PIN	XH 4P	ベースツキポスト	CB1	
	LB918060	BASE PIN	XH 6P	ベースツキポスト	CB2	
	VD004600	BASE PIN	PH 3P	ベースピン	CB3,4	
	VD004700	BASE PIN	PH 4P	ベースピン	CB5	
	VD004800	BASE PIN	PH 5P	ベースピン	CB6	
	VD005000	BASE PIN	PH 7P	ベースピン	CB7	
	VD005100	BASE PIN	PH 8P	ベースピン	CB8	
	VD940700	HOLDER		ホルダー		
	CB605620	PLASTIC RIVET		プラスチックリベット		
	VH637500	LCD CIRCUIT BOARD		LCDシート	T	
	VH637400	LCD CIRCUIT BOARD		LCDシート	BL	
	FG212820	CERAMIC CAP	820pF 50V	セラコン	C402	
	UH247100	ELE. CAP	10uF 25V	ケミコン	C401,403	
	iF004600	DIODE	1SS133 T-77	ダイオード	D401	
	XB764001	IC	LC7583	IC	IC401	

\* : New Parts (新規部品)

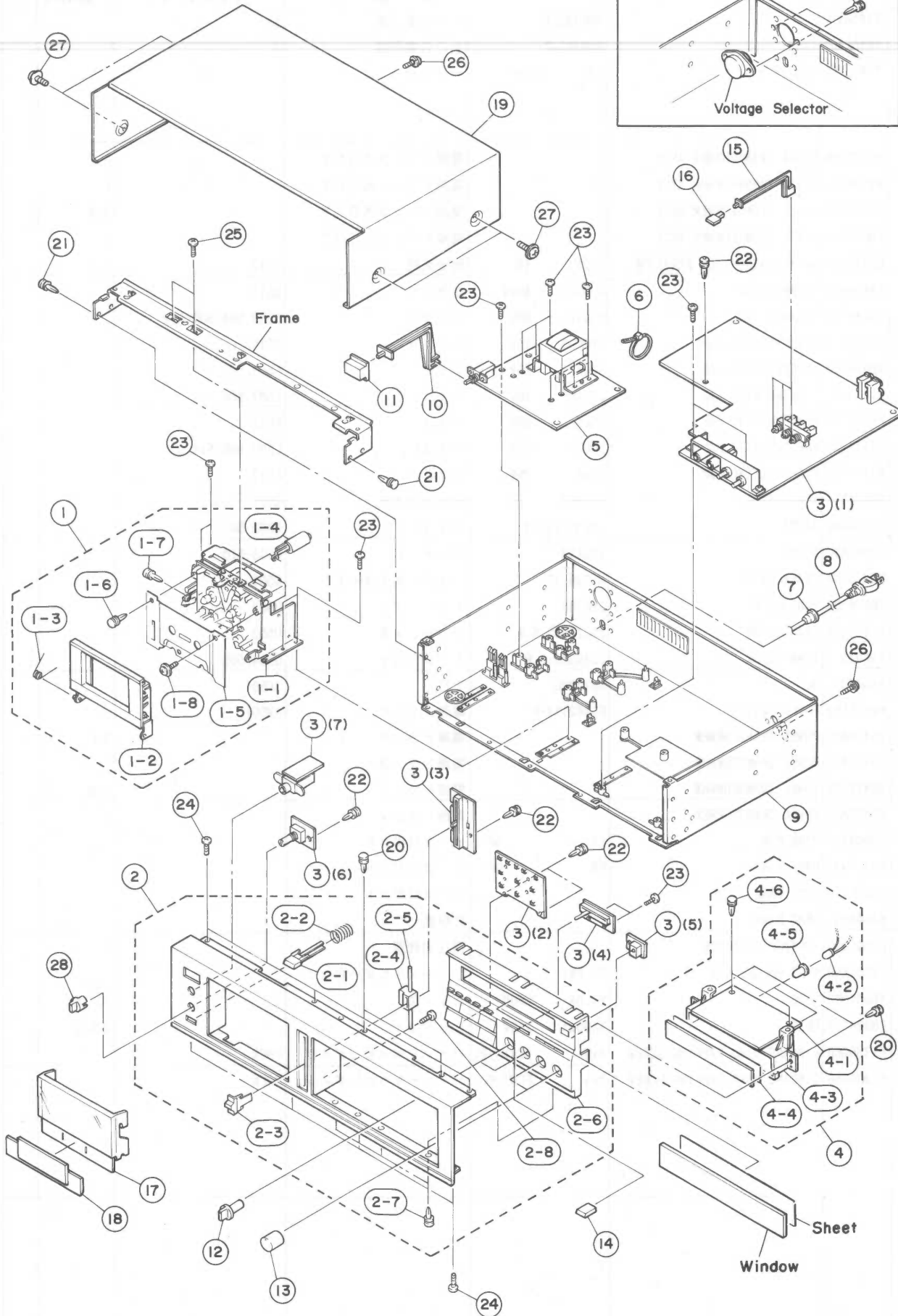
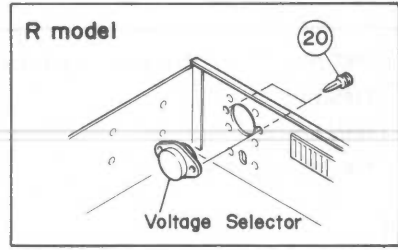
ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	ランク
	VH452100	LCD	8081B2JP	LCD表示器	BL		
	VH452000	LCD	8081B1JP	LCD表示器	T		
	VB858600	BASE PIN	PH 7P	ベースピン			
	VH638200	POWER TRANSFORMER ASSY		電源トランスASSY		U,C	
	VH638300	POWER TRANSFORMER ASSY		電源トランスASSY		R	
	VH638400	POWER TRANSFORMER ASSY		電源トランスASSY		A,B	
	VH638500	POWER TRANSFORMER ASSY		電源トランスASSY		G	
	HL312220	MATAL OXIDE FILM RESISTOR	0.22Ω 1W	酸金抵抗	R517	U,C	⚠
	VA890800	CERAMIC CAP	0.01uF 400V	セラコン	C517		⚠
	FG244100	CERAMIC CAP	0.01uF 50V	セラコン	C503,504,509-512		
	U1939470	ELECTROLYTIC CAP	4700uF 16V	ケミコン	C516		
	VE018300	ELECTROLYTIC CAP	10uF 25V	ケミコン	C501,502		
	UJ139220	ELECTROLYTIC CAP	2200uF 16V	ケミコン	C507,508		
	FZ000980	ELECTROLYTIC CAP	10uF 25V	ケミコン	C515		
	UJ148100	ELECTROLYTIC CAP	100uF 25V	ケミコン	C505,506,514		
	UJ147220	ELECTROLYTIC CAP	22uF 25V	ケミコン	C513		
	iD094700	TRANSISTOR	2SD947	トランジスタ	Q501		⚠
	iF008480	DIODE	1SR35-100AT	ダイオード	D502-507		⚠
	iF003450	DIODE	1SS133	ダイオード	D508-510		
	VG437400	ZENER DIODE	MTZJ5.1B	ツェナーダイオード	D501		⚠
	iB078600	TRASISTOR	2SB786	トランジスタ	Q502		
	iC174070	TRANSISTOR	2SC1740S S,R	トランジスタ	Q503		
	iA093370	TRANSISTOR	2SA933S Q,R	トランジスタ	Q504,505		
	XA507001	IC	AN78N05	I C	IC501		⚠
	KA805150	POWER SWITCH	ESB8215V-F	電源スイッチ	SW501		⚠
	XG470A00	POWER TRANSFORMER		電源トランス		U,C	⚠
	XG471A00	POWER TRANSFORMER		電源トランス		R	⚠
	VG472A00	POWER TRANSFORMER		電源トランス		A,B	⚠
	XG473A00	POWER TRANSFORMER		電源トランス		G	⚠
	VD004700	BASE PIN	PH 4P	ベース付ポスト			
	VD005200	BASE PIN	PH 9P	ベース付ポスト			
	VE225700	POST,BASE		ベース付ポスト			
	BA084000	HEAT SINK		放熱板			
	LB201480	VOLTAGE SELECTOR		電圧切替器		R	
	LB201880	FUSE HOLDER PIN	PC-FN1	ヒューズホルダーピン			
	KB001060	FUSE	T1.0A 250V	ヒューズ		U,C,R	⚠
	KB000720	FUSE	T800mA 250V	ヒューズ		A,B,G	⚠
	EI330066	BINDING HEAD TAPPING SCREW	3x6 FCM3-BL	バインドタッピングネジ	PACK		
	EI330086	BINDING HEAD TAPPING SCREW	3x8 FCM3-BL	バインドタッピングネジ	PACK		

\* : New Parts (新規部品)

ランク : Japan only

# EXPLODED VIEW



KX-630



## MECHANISM PARTS

Ref. NO.	PART NO.	Description	部品名	Remarks	Markets	ランク
* 01	VH636400	CASSETTE MECHANISM UNIT	カセットメカユニット	BL		
* 01	VH636500	CASSETTE MECHANISM UNIT	カセットメカユニット	T		
* 01-1	VH633400	CASSETTE DECK MECHANISM	カセットメカ			
01-2	NB625350	HOUSING ASS'Y	ハウジングASS'Y	BL		
01-2	NB625340	HOUSING ASS'Y	ハウジングASS'Y	T		
01-3	AA608870	HOUSING SPRING	ハウジングスプリング			
01-4	NB603340	DAMPER ASS'Y	ダンパーASS'Y			
01-5	AA628990	PLATE, BLIND	ブラインドプレート	BL		
01-5	VG914100	PLATE, BLIND	ブラインドプレート	T		
01-6	CB099600	PLASTIC RIVET	プラスチックリベット			
01-7	CB601420	PLASTIC RIVET	プラスチックリベット			
* 01-8	EK365000	BW HEAD SCREW	2.6x12 FCM3-BL BWヘッド小ネジ			
* 02	VH636600	PANEL UNIT	パネルユニット	BL		
* 02	VH636700	PANEL UNIT	パネルユニット	T		
* 02-1	VH398600	BUTTON	EJ ボタン	T		
* 02-1	VH398500	BUTTON	EJ ボタン	BL		
02-2	VE931900	SPRING	EJ スプリング			
02-3	VA852500	KNOB	ST/18/14 ノブ	BL		
* 02-3	VH398900	KNOB	ノブ	T		
02-4	CB636430	SLIDER	スライダ			
02-5	AA628950	SHAFT	4x87 シャフト			
* 02-6	VH399200	BUTTON ASS'Y	ボタンASS'Y	BL		
* 02-6	VH399300	BUTTON ASS'Y	ボタンASS'Y	T		
02-7	CB068880	PLASTIC RIVET	プラスチックリベット			
02-8	EX600310	BIND HEAD TAPTYTE SCREW	3x8 FCRM3-BL バインドPタイトネジ			
* 03	VH636800	MAIN CIRCUIT BOARD	メインシート			
* 04	VH637000	LCD UNIT	LCDユニット	BL		
* 04	VH637100	LCD UNIT	LCDユニット	T		
* 04-1	VH637400	LCD CIRCUIT BOARD	LCDシート	BL		
* 04-1	VH637500	LCD CIRCUIT BOARD	LCDシート	T		
* 04-2	VH638600	LAMP	8V 150mA ランプ			
* 04-3	VH400200	REFLECTOR	リフレクター			
* 04-4	VH409600	SHEET	シート			
04-5	VF444500	LAMP CAP	ランプキャップ			
04-6	CB068880	PLASTIC RIVET	プラスチックリベット			
* 05	VH638300	POWER TRANSFORMER ASS'Y	パワートランスASS'Y		R	
* 05	VH638400	POWER TRANSFORMER ASS'Y	パワートランスASS'Y		A, B	
* 05	VH638500	POWER TRANSFORMER ASS'Y	パワートランスASS'Y		G	
* 05	VH638200	POWER TRANSFORMER ASS'Y	パワートランスASS'Y		U, C	
06	CB069250	BINDING TIE	BK-1 束線止め			
07	CB616810	CORD STOPPER	CM-22A コードストッパー		U, C	
07	CB620190	CORD STOPPER	CM-22B コードストッパー		R, A, B, G	
08	VE640000	POWER CORD ASS'Y	パワーコードASS'Y		U, C	
08	VE222900	POWER CORD ASS'Y	パワーコードASS'Y		R	
08	VE042900	POWER CORD ASS'Y	パワーコードASS'Y		A	
08	VE043100	POWER CORD ASS'Y	パワーコードASS'Y		B	
08	VE043400	POWER CORD ASS'Y	パワーコードASS'Y		G	
09	NB630530	CHASSIS	シャーシ		U, C, A, B, G	
09	NB630550	CHASSIS	シャーシ		R	
10	CB634280	ROD	ロッド			

\*: New Parts (新規部品)

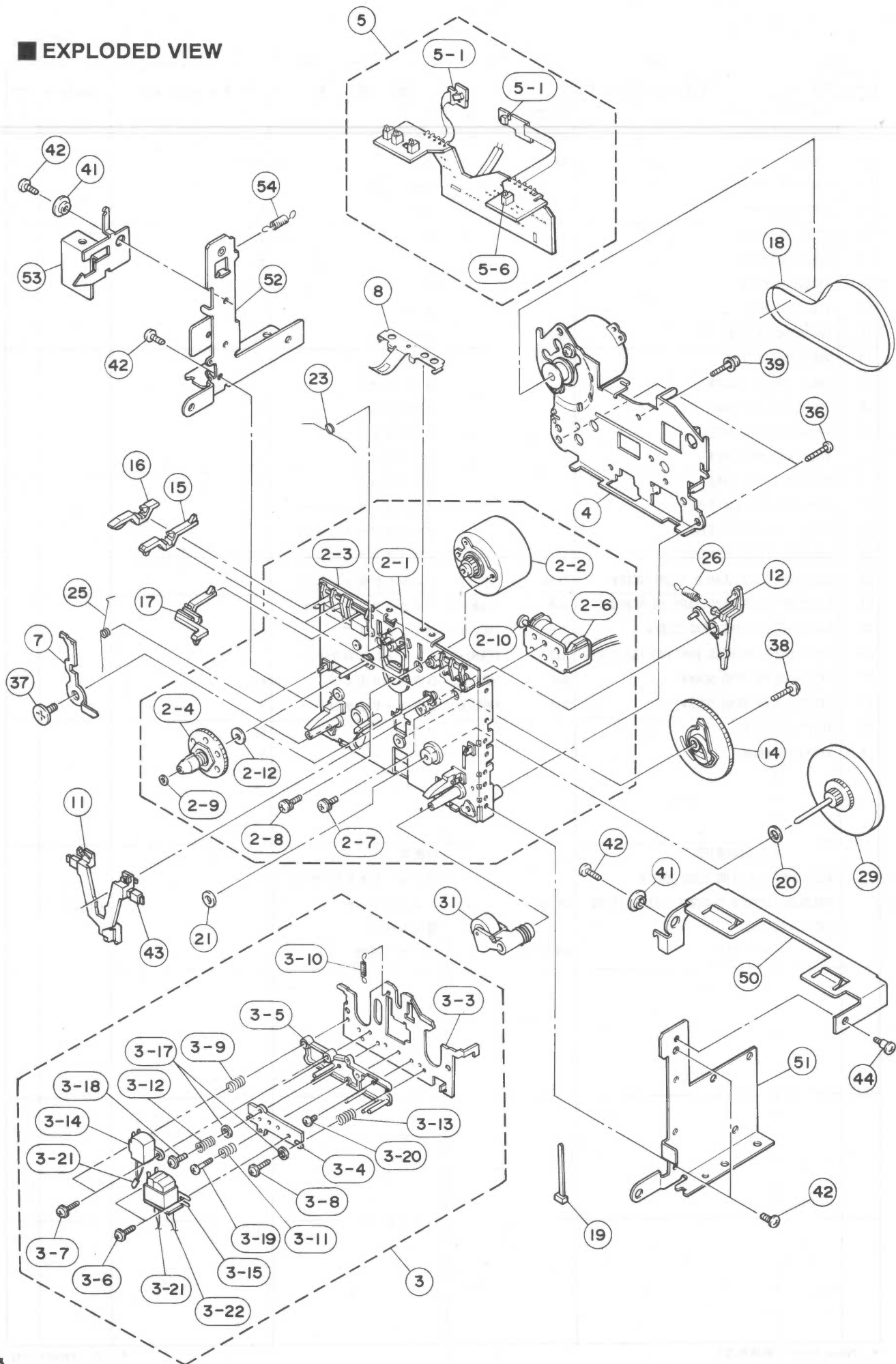
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Ref. NO.	PART NO.	Description	部品名	Remarks	Markets	ランク
11	VE818600	BUTTON	13/25 ボタン			
11	VG913100	BUTTON	POWER ボタン	T		
12	CB634270	KNOB	SW ノブ	BL		
12	VH494800	KNOB	SW ノブ	T		
13	CB026040	KNOB	ノブ	BL		
* 13	VH397100	KNOB	ノブ	T		
14	VE610700	KNOB	ノブ	BL		
* 14	VH397200	KNOB	ノブ	T		
15	VD636500	ROD	ロッド			
16	CB660790	BUTTON	3x14 ボタン	BL		
16	VE012800	BUTTON	3x14 ボタン	T		
17	CB625250	LID COVER	リッドカバー			
18	VD636700	SUB PANEL	サブパネル	BL		
* 18	VH590500	SUB PANEL	サブパネル	T		
19	VD636300	TOP COVER	トップカバー	BL		
19	VG913300	TOP COVER	トップカバー	T		
20	CB068880	PLASTIC RIVET	プラスチックリベット			
21	CB601420	PLASTIC RIVET	プラスチックリベット			
22	CB605620	PLASTIC RIVET	プラスチックリベット			
23	EK093030	BIND HEAD P-TIGHT SCREW	3x10 ZMC2-Y バインドPタイトネジ			
24	EI330086	BIND HEAD TAPPING SCREW	3x8 FCRM3-BL バインドタッピングネジ			
25	ED030066	BINDING HEAD SCREW	3x6 ZMC2-Y バインド小ネジ			
26	EN335030	BIND HEAD BONDING TAP SCREW	3x10 FCRM3-BL ボンディングBタイト			
27	EK365040	BW HEAD SCREW	4x8 FCM3-BL BWヘッド小ネジ	BL		
27	EK135020	BW HEAD SCREW	4x8 FNM3-BL BWヘッド小ネジ	T		
28	VC405700	KNOB	ノブ	BL		
28	VE941000	KNOB	ノブ	T		
		ACCESSORIES	付属品			
	VE233300	PIN-PLUG CORD ASS'Y	ピンコードASS'Y			
* 04	VH425000	REMOTE CONTROL TRANSMITTER	RS-K6 トランスミッター		U, C, R, A	
	CX607200	LID	電池カバー			
		DRY CELL	UH-4 (NG) マンガン電池			

\*: New Parts (新規部品)

ランク: Japan only

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MECHANISM PARTS

Ref. NO.	PART NO.	Description	部品名	Remarks	Markets	ランク
	VII633400	CASSETTE DECK MECHANISM	カセットメカ			
02-01	AX605120	IDLER ASS'Y	アイドラーASSY		F517-040	
02-02	AX605130	MOTOR REEL ASS'Y	モーターリールASSY		F564-258	
02-03	AX605140	CHASSIS BASE ASS'Y	シャーシベースASSY		FG12-109	
02-04	AX605150	REEL BASE ASS'Y	リールベースASSY		FG23-037	
02-06	AX605170	SOLENOID ASS'Y	ソレノイドASSY		F765-252	
02-07	EA026046	PAN HEAD SCREW	ナベ小ネジ	2.6x4 ZMC2-BL	FG114-15	
02-08	XX649090	PAN HEAD SCREW	ナベ小ネジ	2.6x6 ZMC2-BL	FG114-20	
02-09	XX636610	POLY-SLIDER WASHER	ポリスライダワッシャー	1.7x0.25	FJ111-17	
02-10	XX695160	PLUNGER	プランジャー		PL366-11	
02-12	XX641850	POLY-SLIDER WASHER	ポリスライダワッシャー	2.1x0.25	UJ12V-11	
03	NX605070	HEAD BLOCK ASS'Y	ヘッドブロックASSY		F513-529	
03-03	CX610600	HEAD BASE	ヘッドベース		FC38N-F4	
03-04	AX606910	PLATE, HEAD	ヘッドダイバン		FC47Y-13	
03-05	BX601480	SPACER	3ヘッドスペーサー		FD39K-13	
03-06	AX606920	F LOCK	Fロック	2x3	FG119-16	
03-07	AX603110	F LOCK	Fロック	2x9	FG137-18	
03-08	EA020080	PAN HEAD SCREW	ナベ小ネジ	2x8	FG140-18	
03-09	XX641720	SPRING, AZIMUTH	SPアジマス		FK21U-11	
03-10	XX641890	SPRING	スプリング		FK22L-11	
03-11	AX606930	SPRING	チルトスプリング		FK27K-12	
03-12	AX606940	SPRING	アジマススプリング		FK27L-11	
03-13	AX606950	SPRING	アジマススプリング		FK27M-12	
03-14	GX603060	ERASE HEAD	消去ヘッド		FU11K-12	
03-15	GX603600	REC/PB HEAD	録再ヘッド	H-2374	FU19K-12	
03-17	EV200206	WASHER	ワッシャー	φ2.0 ZMC2-Y	MJ112-21	
03-18	AX606960	SPECIAL SCREW	特殊ネジ	2x12	UG11K-17	
03-19	AX606970	SPECIAL SCREW	特殊ネジ	2x10	UG11M-21	
03-20	AX606980	SPECIAL SCREW	特殊ネジ	2x3	UG14R-11	
03-21	HX601840	WIRE CONNECTOR	ワイヤーコネクタ	R/E	WI51K-03	
03-22	HX601850	WIRE CONNECTOR	ワイヤーコネクタ	PB	WI51L-05	
04	AX605190	BLACKET MAIN MOTOR	メインモーターブラケット		F525-185	
05	NX605080	CONTROL PCB ASS'Y	コントロールシート		F567-285	
05-01	NX603830	SENSOR, REEL	リールセンサー	GP2S04B	AZ15S-00	
05-06	KX601080	SWITCH, PUSH	プッシュスイッチ		UE16E-11	
07	AX602510	PROTECT ARM (L), EJECT	EJECT防止アーム(L)		FC39S-33	
08	XX695200	SPRING, CASSETTE HOLDER	カセット押えバネ		FC40N-32	
11	AX605210	HOLD LEVER	ホールドレバー		FD36H-12	
12	CX607640	PLAY ARM (F)	プレイアーム(F)		FD38M-22	
14	CX610610	CAM GEAR (G)	カムギア(G)		FD39C-54	
15	CX607660	SENSOR LEVER, REC	REC検知レバー		FD38S-21	
16	CX607670	SENSOR LEVER, PACK	バック検知レバー		FD38T-12	
17	CX603150	SENSOR LEVER, METAL	メタル検知レバー		FD38U-12	
18	XX670540	MAIN BELT	メインベルト		FF16K-11	
19	CB069251	BINDING TIE	束線止め		FH126-13	
20	XX636810	POLY-SLIDER WASHER	ポリスライダワッシャー	2.6x0.25	FJ111-30	
21	XX670250	WASHER	ワッシャー		FJ141-11	
23	AX605220	HOLD SPRING	ホールドバネ		FK22E-13	
25	AX602520	PROTECT SPRING (L), EJECT	EJECT防止バネ(L)		FK22P-16	
26	AX602530	PLAY ARM SPRING	プレイアームスプリング		FK22G-14	

\* : New Parts (新規部品)

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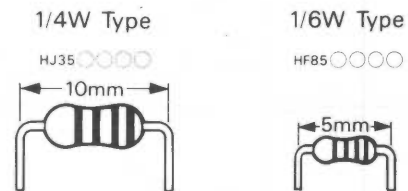
Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	注
29	XXG95220	FLYWHEEL ASS'Y				FR19V-22	
31	XXG41790	PINCH ROLLER ASS'Y	φ2.5			FR20L-21	
36	XXG84890	SPECIAL SCREW	2.6x8			UG12H-14	
37	AXG02500	SPECIAL SCREW	7.7			UG15S-11	
38	AXG05230	SPECIAL SCREW WITH WASHER	2x15			UG17L-11	
39	AXG02560	BINDING HEAD TAPPING SCREW	2.6x23.5			UG17H-11	
41	XXG36470	SPACER				FM296-11	
42	EJ030056	PAN HEAD TAPPING SCREW	3x5	ZMC2-Y		KG194-11	
43	CXG07630	RUBBER, BRAKE				FF16N-13	
44	XXG84660	SPECIAL SCREW				UG14L-11	
50	XXG95330	EJECT ARM				FC46W-12	
51	AXG05970	HOLDER (R), MECHANISM				FC39U-15	
52	AXG05950	HOLDER (L), MECHANISM				FC39T-17	
53	XXG41880	EJECT LEVER				FC39V-14	
54	XXG70240	SPRING, EJECT ARM				FK22Y-11	
	NXG05080	CONTROL PCB ASS'Y				F567-285	
	NXG03830	SENSOR	GP2S04B		MRS1,2	AZ15S-00	
	iXG15330	TRANSISTOR	2SA934		MQ3		
	iXG14420	TRANSISTOR	2SC1740		MQ1,4		
	iXG14400	DIODE	1SS252		MD1,2,5		
	iXG14440	ZENER DIODE	HZ3A1		MD7		
	iXG14430	ZENER DIODE	HZ7A3		MD6		
	iXG14410	IC	TA7291S		MIC1		
	FA155330	MYLAR CAP	0.33uF	50V	MC1		
	UJ137330	ELE. CAP	33uF	16V	MC2		
	KXG01080	PUSH SWITCH			MSW1-4	UE16E11	

\* : New Parts (新規部品)

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# Parts List for Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ353100	HF853100	12K Ω	HJ357120	HF857120
1.8 "	HJ353180	*	15 "	HJ357150	HF857150
2.2 "	HJ353220	HF853220	18 "	HJ357180	HF857180
3.3 "	HJ353330	HF853330	22 "	HJ357220	HF857220
4.7 "	HJ353470	HF853470	27 "	HJ357270	HF857270
5.6 "	HJ353560	HF853560	33 "	HJ357330	HF857330
10 "	HJ354100	HF854100	39 "	HJ357390	HF857390
15 "	HJ354150	HF854150	47 "	HJ357470	HF857470
22 "	HJ354220	HF854220	56 "	HJ357560	HF857560
27 "	HJ354270	HF854270	68 "	HJ357680	HF857680
33 "	HJ354330	HF854330	82 "	HJ357820	HF857820
39 "	HJ354390	HF854390	91 "	HJ357910	HF857910
47 "	HJ354470	HF854470	100 "	HJ358100	HF858100
56 "	HJ354560	HF854560	120 "	HJ358120	HF858120
68 "	HJ354680	HF854680	150 "	HJ358150	HF858150
82 "	HJ354820	HF854820	180 "	HJ358180	HF858180
100 "	HJ355100	HF855100	220 "	HJ358220	HF858220
110 "	HJ355110	HF855110	270 "	HJ358270	HF858270
120 "	HJ355120	HF855120	330 "	HJ358330	HF858330
150 "	HJ355150	HF855150	390 "	HJ358390	HF858390
160 "	HJ355160	*	470 "	HJ358470	HF858470
180 "	HJ355180	HF855180	560 "	HJ358560	HF858560
220 "	HJ355220	HF855220	680 "	HJ358680	HF858680
270 "	HJ355270	HF855270	820 "	HJ358820	HF858820
330 "	HJ355330	HF855330	1.0M Ω	HJ359100	HF859100
390 "	HJ355390	HF855390	1.2 "	HJ359120	*
470 "	HJ355470	HF855470	1.5 "	HJ359150	HF859150
510 "	*	HF855510	1.8 "	HJ359180	HF859180
560 "	HJ355560	HF855560	2.2 "	HJ359220	HF859220
680 "	HJ355680	HF855680	3.3 "	HJ359330	HF859330
820 "	HJ355820	HF855820	3.9 "	HJ359390	*
910 "	HJ355910	HF855910	4.7 "	HJ359470	HF859470
1.0K Ω	HJ356100	HF856100			
1.2 "	HJ356120	HF856120			
1.5 "	HJ356150	HF856150			
1.8 "	HJ356180	HF856180			
2.0 "	HJ356200	HF856200			
2.2 "	HJ356220	HF856220			
2.4 "	HJ356240	HF856240			
2.7 "	HJ356270	HF856270			
3.0 "	HJ356300	HF856300			
3.3 "	HJ356330	HF856330			
3.6 "	HJ356360	HF856360			
3.9 "	HJ356390	HF856390			
4.7 "	HJ356470	HF856470			
5.1 "	HJ356510	HF856510			
5.6 "	HJ356560	HF856560			
6.8 "	HJ356680	HF856680			
8.2 "	HJ356820	HF856820			
9.1 "	HJ356910	HF856910			
10 "	HJ357100	HF857100			



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