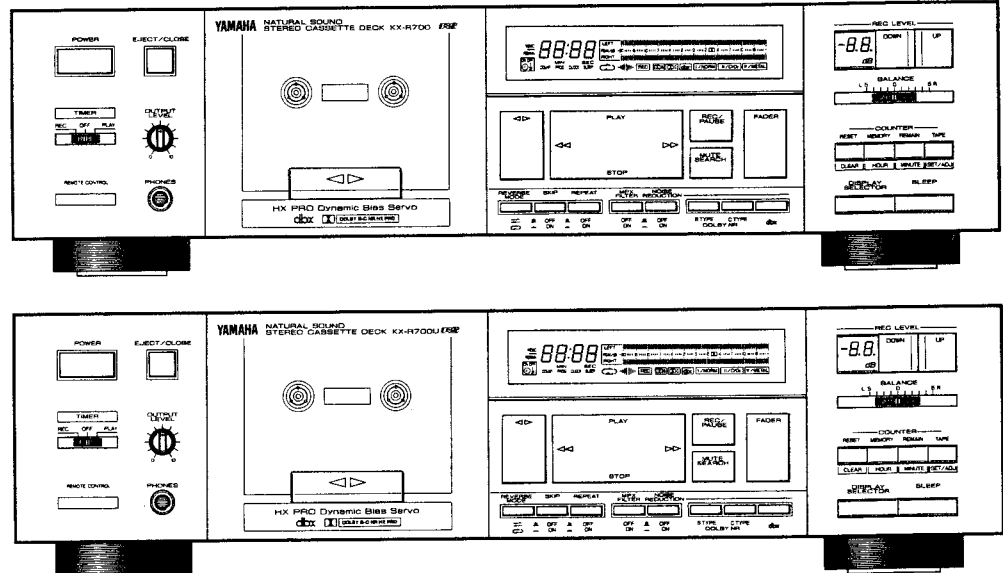
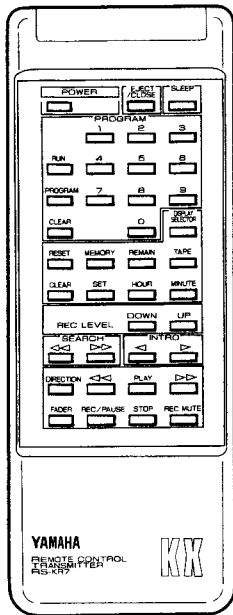


# STEREO CASSETTE DECK KX-R700/U

## SERVICE MANUAL



KX-R700/U

### 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, 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.

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## TO SERVICE PERSONNEL

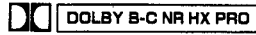
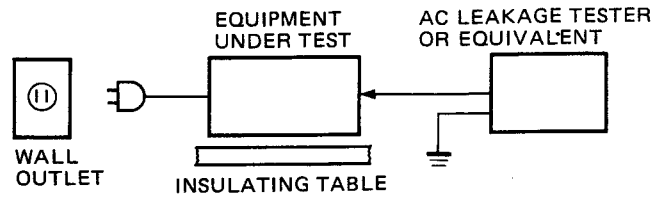
- Critical Components Information.**  
Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.
- Leakage Current Measurement (For 120V Model Only).**  
When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.
  - Meter impedance should be equivalent to 1500 ohm shunted by 0.15µF.
  - Leakage current must not exceed 0.5mA.
  - Be sure to test for leakage with the AC plug in both polarities.

### POLARIZATION

This tuner 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. (U.C model only)

## SPECIFICATIONS

Track Configuration	4 track, 2 channel stereo
Motor	DC servo motor (capstan) Flat torque DC motor (reel) DC motor (assist) DC motor (EJECT/CLOSE)
Heads	Combination, Amorphous with 12-laminated core Rec and Playback heads Double-gap Ferrite erase head
Rapid Transport	
(F.Fwd/Rew)	70 sec. (C-60) 45 sec. (extra high speed)
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
dbx	better than 90 dB
Frequency Response	
Normal tape (-20 dB)	20-17,000 ± 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 (315 Hz, 3rd)	
Normal tape	less than 0.8%
Chrome tape	less than 0.8%
Metal tape	less than 0.8%
Input Sensitivity/Impedance	
Line	50 mV/30 k-ohms
Output Level	
Line	360 mV/1.2 k-ohms
Phones	0.6 mW/8 ohms
Channel Separation (3150 Hz)	40 dB
Cross Talk (125 Hz)	55 dB



Dolby noise reduction and HX PRO headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX PRO originated by Bang and Olufsen. "Dolby", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

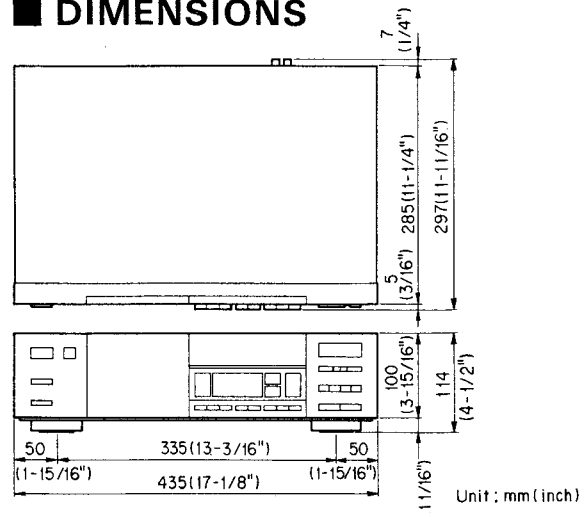
### GENERAL

Power Supplies	220 V, 50 Hz (G) 240 V, 50 Hz (A, B) 120 V, 60 Hz (U, C) 110/120/220/240 V, 50/60 Hz (R)
Power Consumption	20 W 6 W (power off)
Dimensions (W x H x D)	435 x 114 x 297 mm (17-1/8" x 4-1/2" x 11-11/16")
Weight	5.8 kg (12 lbs. 13 oz.)

\* Specifications subject to change without notice.

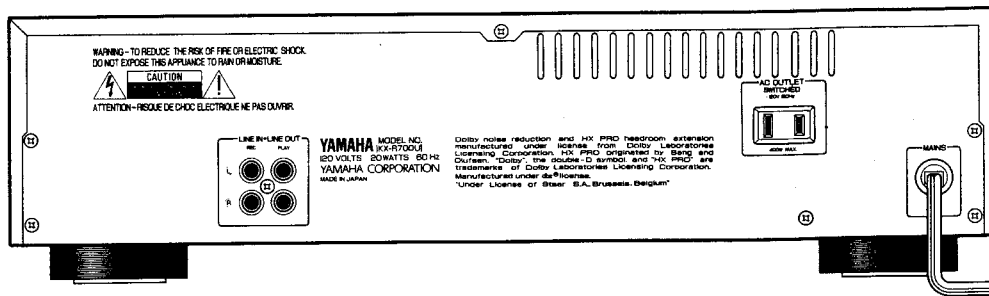
(U) . . . . . U.S.A. model	(G) . . . . . European model
(C) . . . . . Canadian model	(B) . . . . . British model
(A) . . . . . Australian model	(R) . . . . . Others model

## DIMENSIONS

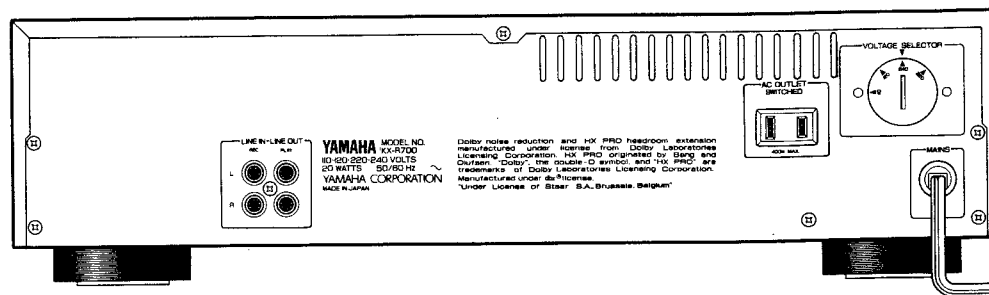


# REAR PANELS

• U.C. models

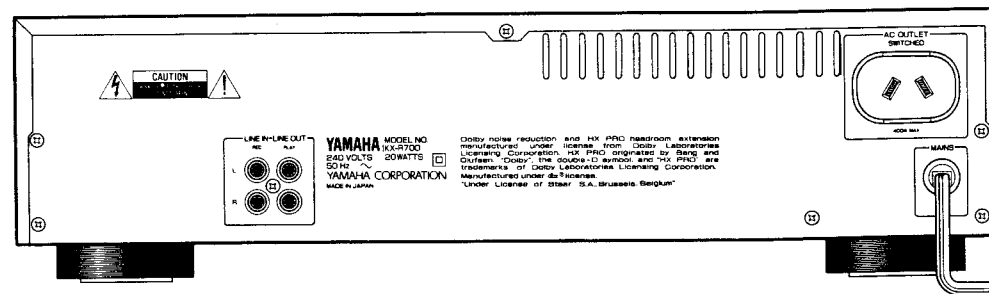


• R model

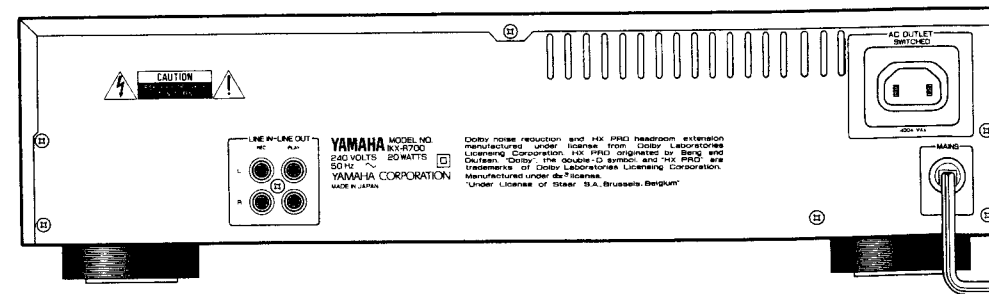


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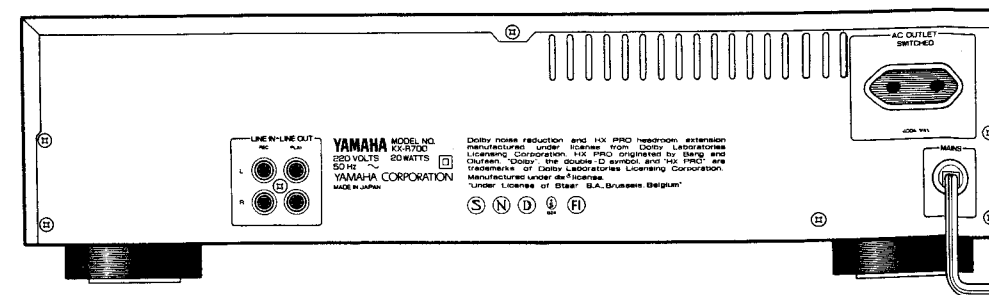
• A model



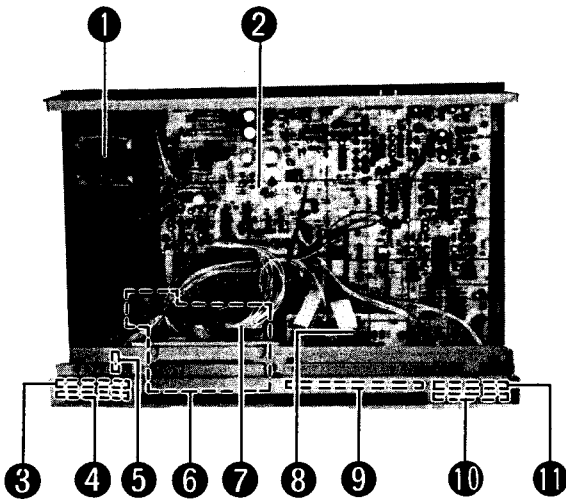
• B model



• G model



## INTERNAL VIEW



- ① POWER TRANSFORMER
- ② MAIN CIRCUIT BOARD (1)
- ③ SUB CIRCUIT BOARD (3)
- ④ SUB CIRCUIT BOARD (5)
- ⑤ MAIN CIRCUIT BOARD (3)
- ⑥ CASSETTE MECHANISM UNIT
- ⑦ CASSETTE MECHANISM CIRCUIT BOARD
- ⑧ MAIN CIRCUIT BOARD (2)
- ⑨ SUB CIRCUIT BOARD (1)
- ⑩ SUB CIRCUIT BOARD (4): Top Side  
SUB CIRCUIT BOARD (2): Bottom Side
- ⑪ SUB CIRCUIT BOARD (6)

## DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered)

### 1. How to remove Top Cover:

- a. Remove 5 screws of ① of Fig. 1, remove the Top Cover trying to lift it up sliding it a little to the back.

### 2. How to remove Bottom Cover:

- a. Remove 7 screws of ② of Fig. 1.

### 3. How to remove Front Panel:

- a. Switch to POWER ON, and open cassette lid pushing Eject/Close button.
- b. Lift up cassette lid a little, and if you pull it toward you, the cassette lid will take off. Next, push Eject/Close button, close housing frame, and switch it to POWER OFF.

**Note:** Remove AC cord from power plug socket.

- c. Take off 6 screws of ③ of Fig. 1.
- d. Remove Connector located at 7 places (#9 ~ #15)
- e. Remove the Front Panel trying to pull it toward you.

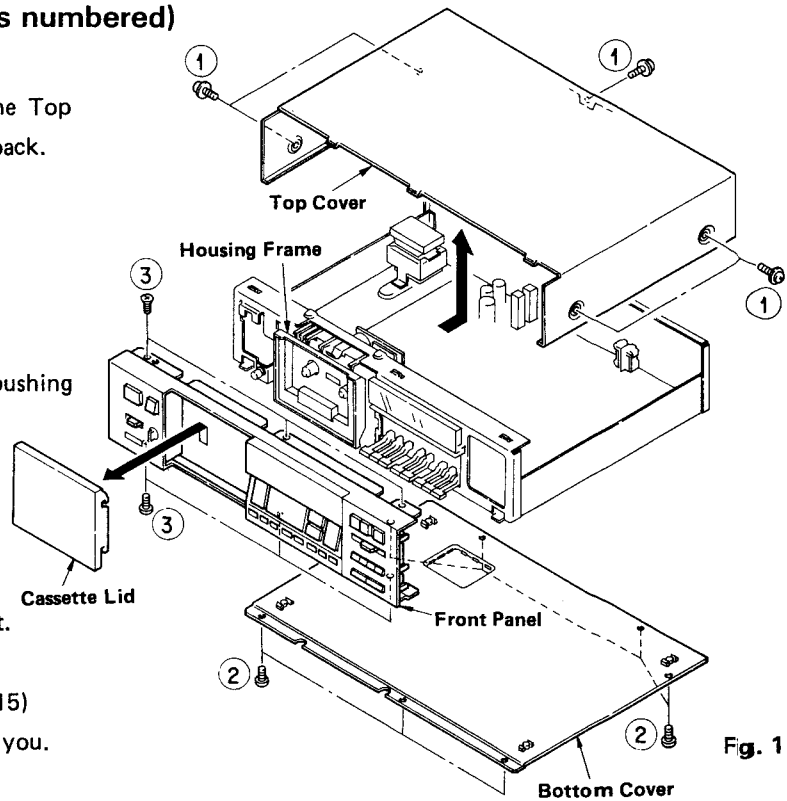


Fig. 1

### 4. How to remove Cassette Mechanism:

- a. Remove Front Panel.
- b. Remove Main Circuit Board of Connector 5 places (#. 1 ~ #. 4 & #. 16)
- c. Remove Connectors for 2 places of Cassette Mechanism.
- d. Remove 4 screws of ④ of Fig. 2, and remove the Cassette Mechanism trying to slide to the back.

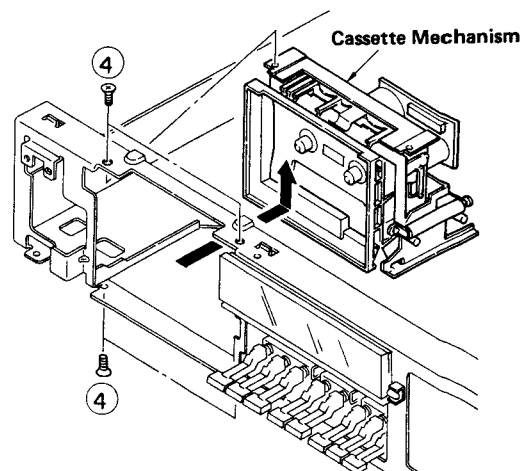


Fig. 2



FIGURE OF CONNECTOR PART

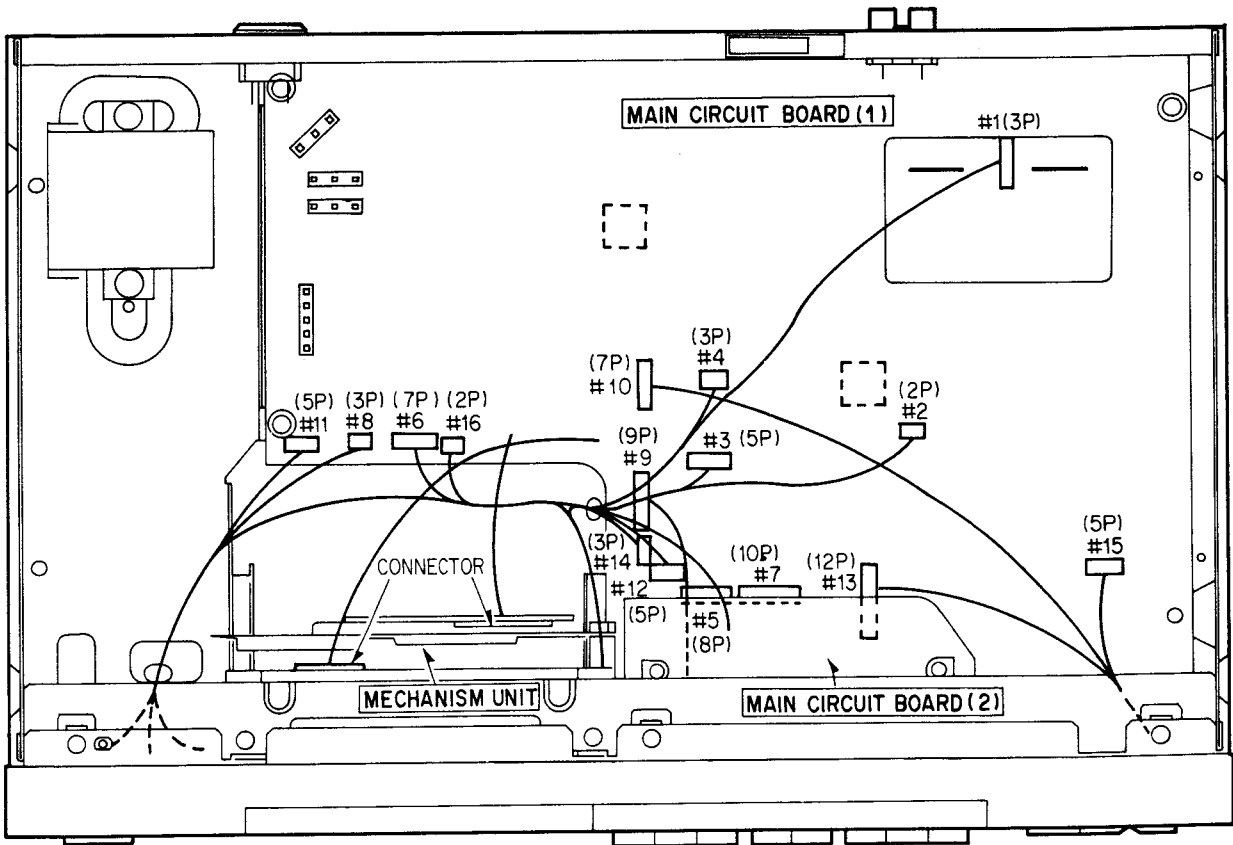


Fig. 3

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**5. How to remove Housing Assembly:**

- a. Open Housing Ass'y turning Pulley D of Fig. 4.
- b. Remove one screw of (6) of Fig. 5, and remove Hook of (A) part.
- c. Remove Hook (B) & (C) parts of Fig. 5.

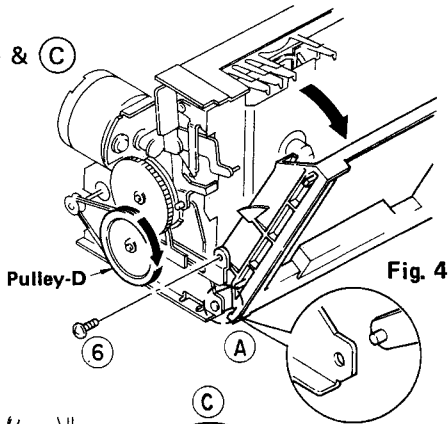


Fig. 4

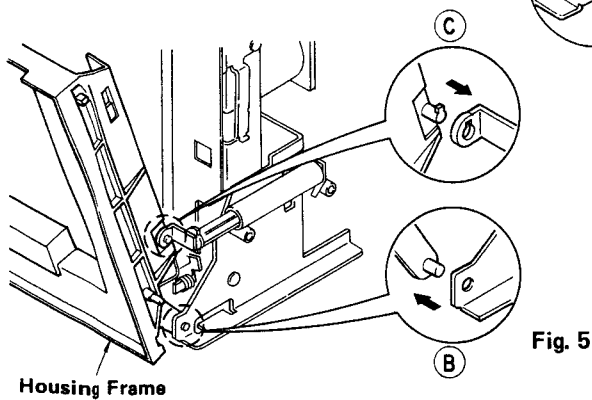


Fig. 5

**6. How to remove Blind Plate and Pinch Roller:**

- a. Remove one screw of (7) and Hook of one place. Then, Blind Plate can be taken off.
- b. If you will remove E-ring (8) of Fig. 6, Pinch Roller Ass'y is taken off.

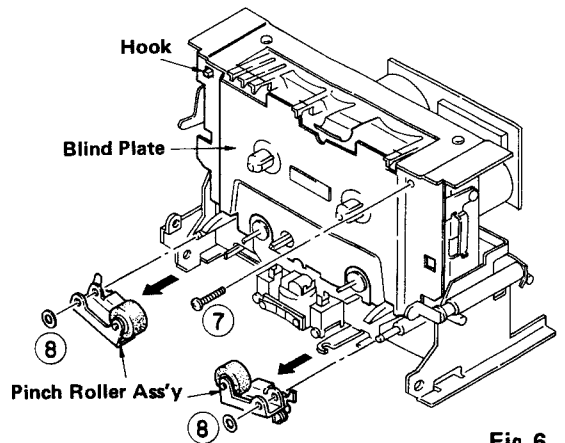


Fig. 6

**7. How to remove Head Unit and Sensor Unit:**

- a. Remove Insulator Lock Tie which locks lead wire between lead wire of head and sensor unit. (Fig. 7)
- b. If you will remove Hexagonal Nut (9) of Fig. 8, Sensor Unit is taken off.
- c. Remove 2 screws of (10) of Fig. 8. Then Head Unit is taken off.

\* In case Head Unit was exchanged, conduct locking of screw, adjustment of Tape Guide and also adjustment of Azimuth.

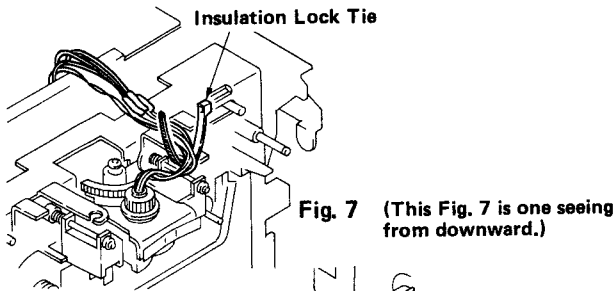


Fig. 7 (This Fig. 7 is one seeing from downward.)

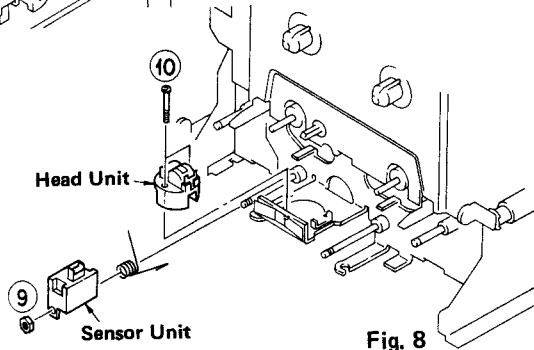


Fig. 8

**8. How to remove Assist. Motor & Reel Motor:**

- a. Remove Blind Plate.
- b. Remove Washer (11) of Fig. 9, and remove Reel Gear.
- c. If you will remove 2 screws (12) and 2 screws of (13), Reel Motor & Assist. Motor are taken off together with Mechanism. Transit Circuit Board.

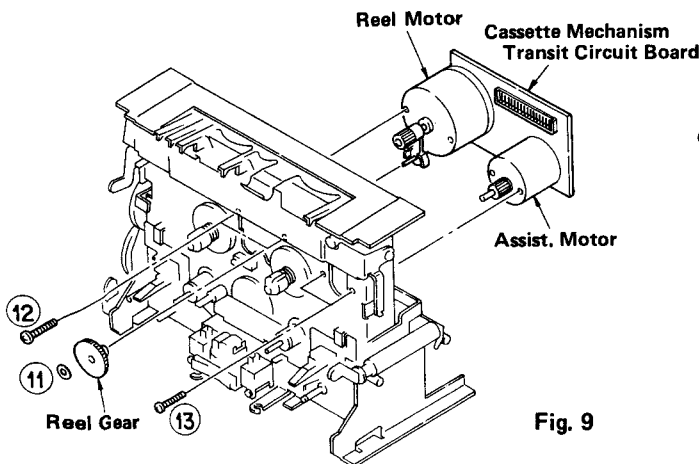


Fig. 9

**9. How to remove Eject Motor:**

- a. Remove Belt.
- b. If you will remove 2 screws (14) of Fig. 10, Eject Motor is taken off.

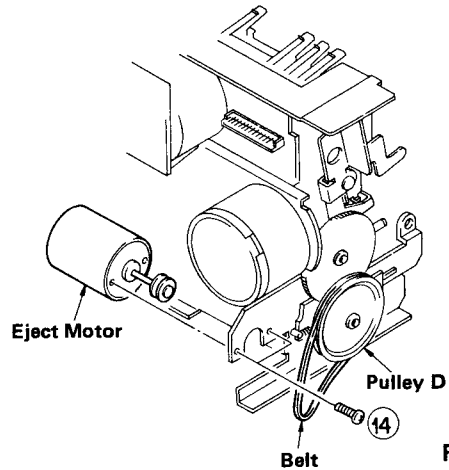


Fig. 10

**10. How to remove Capstan Motor:**

- a. Remove 2 screws of (15) of Fig. 11, and remove Motor Bracket.
- b. If you will remove 3 screws of (17) of Fig. 11, Capstan Motor is taken off.

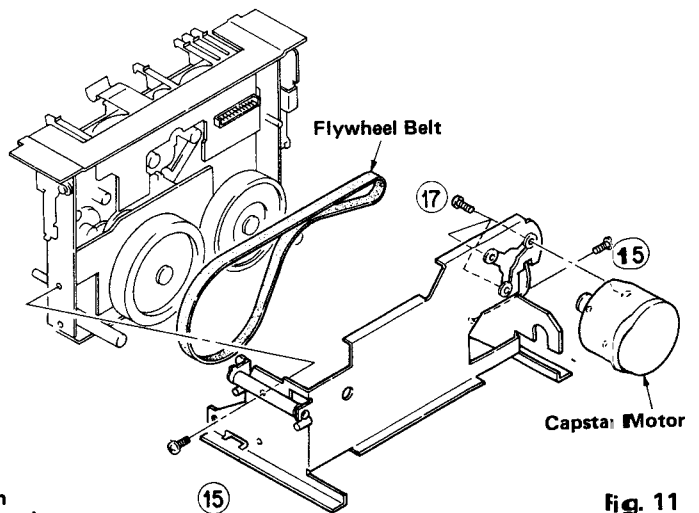
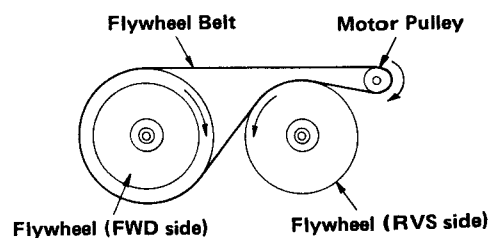


Fig. 11

**● How to engage Flywheel Belt:**



(This figure is one seeing from the back.)

## ADJUSTMENTS

### 1. Before adjustment:

- Make sure than 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
  - Torque meter
- TW-2111 (TX911580)                      TW-2412 (TX911640)  
 TW-2121 (TX911570)                      TW-2422 (TX911630)  
 CT160L (TX911120)

- DCVM
- Mirror Cassette  
MC-109C (TX911430)

### 3. Test tape required

- MTT-111N (TX911650): Tape Speed (Normal)
- MTT-114N (TX911680): Azimuth
- MTT-212CN (TX911670): Playback Level
- MTT-256 (TX911300): Playback Frequency Response (LH)
- MTT-256 (TX911310): Playback Frequency Response (CrO<sub>2</sub>)
- Reference tape  
 Normal (LH): TDK AC223 (TX911600)  
 CrO<sub>2</sub> : TDK SA-60 or TDK AC513 (TX911610)  
 METAL : TDK AC712 (TX911590)

### MECHANISM ADJUSTMENT

Step	Adjustment Items	Test Tape Torquemeter	Mode	Adjustment Place	Adjustment Method	Specification	Remarks
1	Tape Speed	MTT-111N 3kHz, -10dB	PLAY	Interior of Capstan Semi-Fix VR (Fig. A)	Measure in "LINE OUT".	3010±10Hz	
2	Leader Tape Sensor	TDJ0AD120 MAGNETIC FACE	PLAY	Mechanical Relay Circuit Board Internal semi-fixed VR (Fig. B)	Measure voltage at the anode side of D34.	Less than 0.9V	Adjust so as to enable to satisfy the specification reproducing magnetic face & leader tape alternately.
		MAXELL: LEADER TAPE PART				More than 1.8V	
3	Azimuth	MTT-114N 10kHz, -dB	PLAY	Azimuth adjustment screw (Fig. C)	When it will be FWD & REV, the output level of both channels shall be the maximum and same phase. (FWD/REV must use same face of test tape.)		After adjustment finished, be sure to lock it by screws.

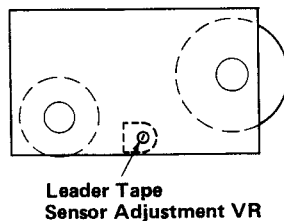
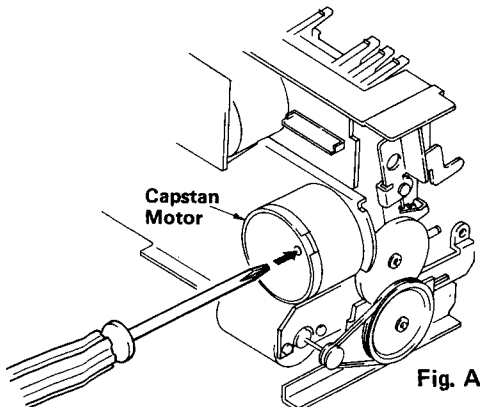


Fig. B

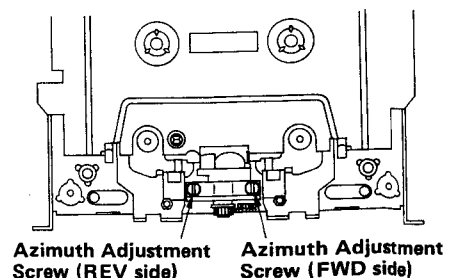
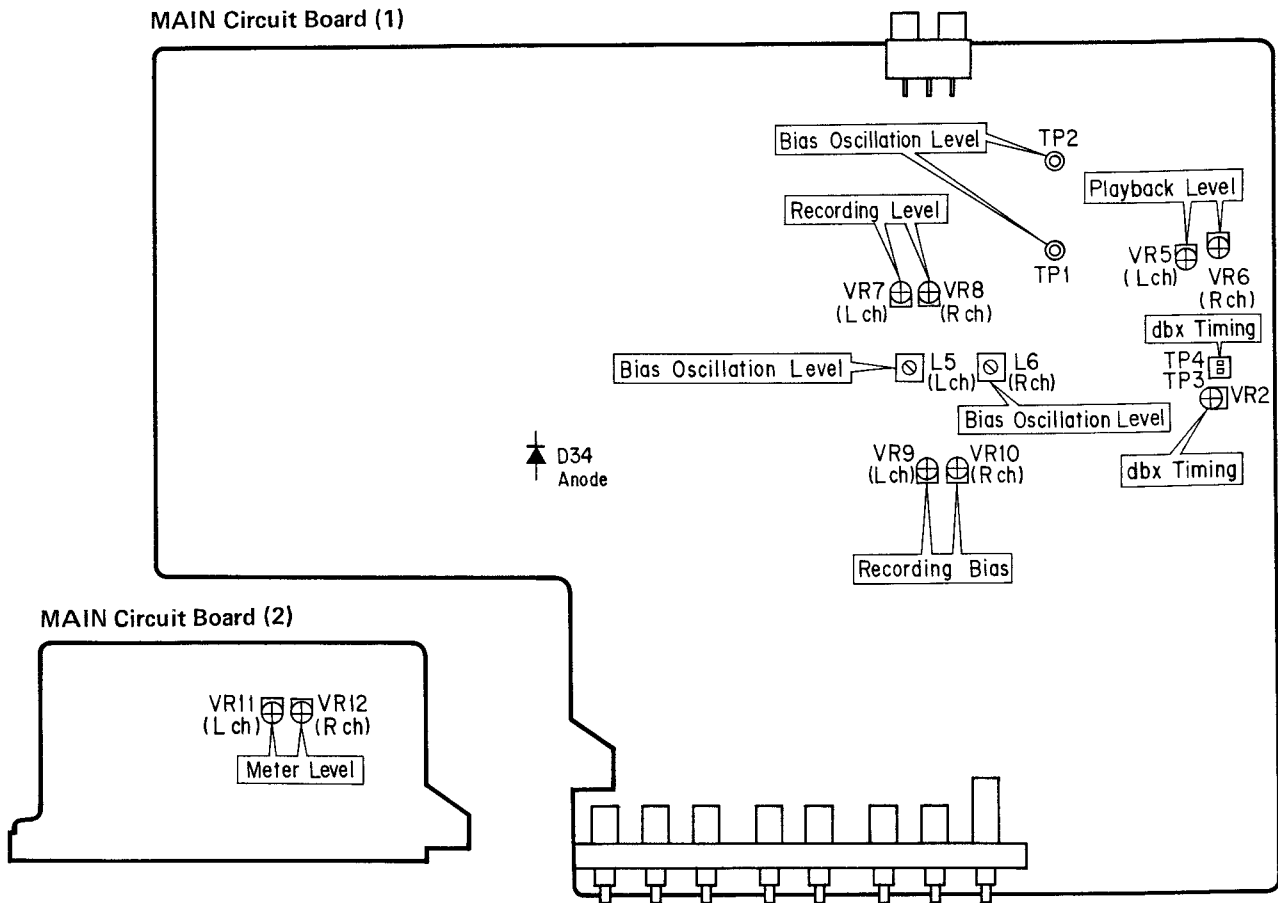


Fig. C

● TEST POINT



ELECTRIC ADJUSTMENT

\* Standard level of this machine shall be that 160 nwb/m is 0 dB. (360 mV)

PLAYBACK ADJUSTMENT

Step	Adjustment Items	Tape	Instrument Required	Mode	Adjustment Part	Point of Measurement	Adjustment Method	Specification
1	Playback Level	MTT-212CN (160nwb/m)	ACVM	PLAY	VR 5 (Lch) VR 6 (Rch)	LINE OUT	When playback of MTT-212CN & MTT-212N has done, adjust VR, so that Terminal Voltage may be Specification Value.	360mV±25mV
		MTT-212N (250nwb/m)						560mV±35mV
2	Confirmation of Playback Frequency Response	MTT-256 (LH: 3180 μs +120 μs) MTT-356 (CrO <sub>2</sub> : 3180 μs + 70 μs)	ACVM OSCILLOSCOPE	PLAY		LINE OUT	Make sure that level of LINE OUT is within the specification of Fig. d. When Test Tape was play-backed.	0dB±4dB
3	dbx Timing		DCVM	STOP	VR2	TP3 ~ TP4	Adjust VR, so that DC Voltage of Test Point may be specified value under the stop condition.	18.4mV ±0.4mV

PLAYBACK FREQUENCY RESPONSE

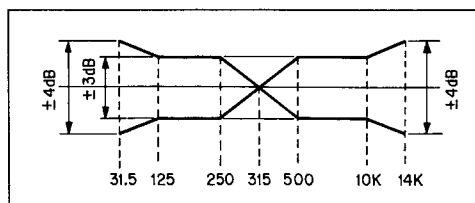


Fig. D

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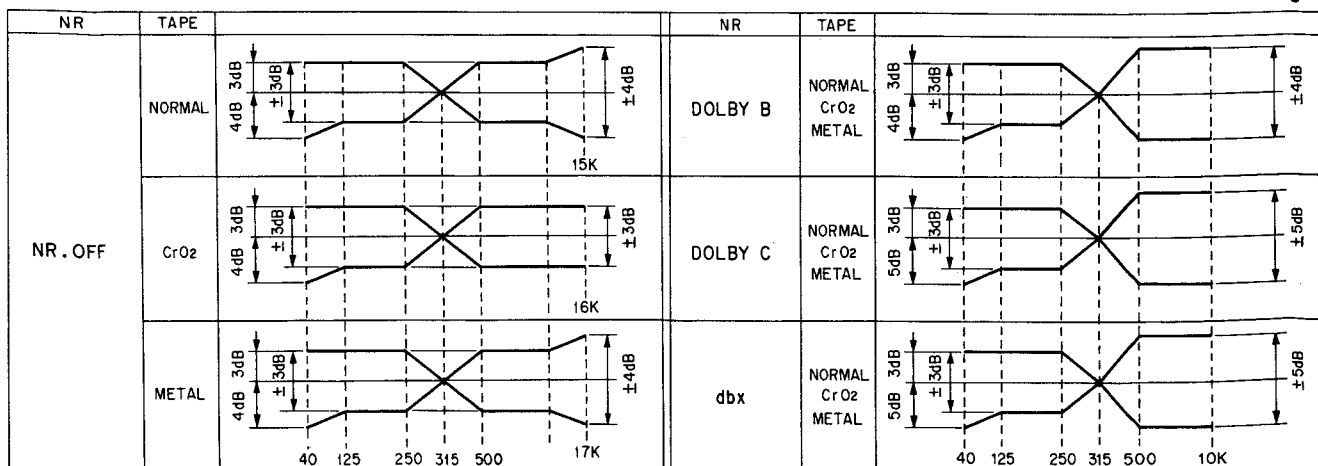
RECORDING ADJUSTMENT

Sequence	Adjustment Items	Test Tape	Measurement Instrument	Mode	Adjustment Terms	Measuring Place	Adjustment Place	Adjustment Method
1	Meter Lighting Level	LH	ACVM Low Frequency Oscillator	REC/PAUSE	1. Set REC LEVEL at the Maximum. 2. Input 1kHz Signal to LINE IN TERMINAL from Low Frequency Oscillator. Adjust output level of Low Frequency Oscillator, so that the voltage of LINE OUT TERMINAL at the time may be 360mV.	Peak Level Meter	VR11(Lch) VR12(Rch)	Adjust VR to the minimum level where 0dB segment (red) of peak level meter will light up.
2	Bias Oscillation Level	METAL	ACVM	REC PLAY	Set VRS and 10 at the Maximum respectively (to the maximum of left turn.)	TP1-GND TP2-GND	L5(Lch) L6(Rch)	Connect L5 and L6 respectively so that the level may be $11 \pm 1mV$ connecting ACVM with space between each TP-GND. (But, if the maximum level is less than 10mV, it shall be the maximum level.)
3	Recording Level	LH	ACVM Low Frequency Oscillator	REC PLAY and PLAY-BACK	1. Let it be REC/PAUSE condition. 2. Input 1kHz Signal to LINE IN TERMINAL from Low Frequency Oscillator. Adjust REC LEVEL knob, so that voltage of LINE OUT TERMINAL at the time may be 36mV (-20dB). 3. Record the above-mentioned signal. 4. Playback the recorded tape.	LINE OUT	VR7(Lch) VR8(Rch)	Adjust VR, so that voltage of LINE OUT TERMINAL may be $-20dB \pm 0.5dB$ ( $36mV \pm 1.8mV$ ) when the recorded tape would have been play-backed under 1kHz, 36mV.
4	Recording Bias	LH CrO <sub>2</sub> and METAL	ACVM Low Frequency Oscillator	REC PLAY and PLAY-BACK	1. Set REC LEVEL at the maximum. 2. Let it be REC/PAUSE condition. 3. Input several frequency signals to LINE IN TERMINAL from Low Frequency Oscillator. Adjust level, so that the voltage of LINE OUT TERMINAL at this time may be 36mV (-20dB). 4. Record the above-mentioned signal by tape. 5. Playback the recorded tape.	LINE OUT TERMINAL	VR9(Lch) VR10(Rch)	Adjust VR, so that the voltage of LINE OUT TERMINAL may satisfy Fig. E when the recorded tape was play-backed under each frequency 36mV.

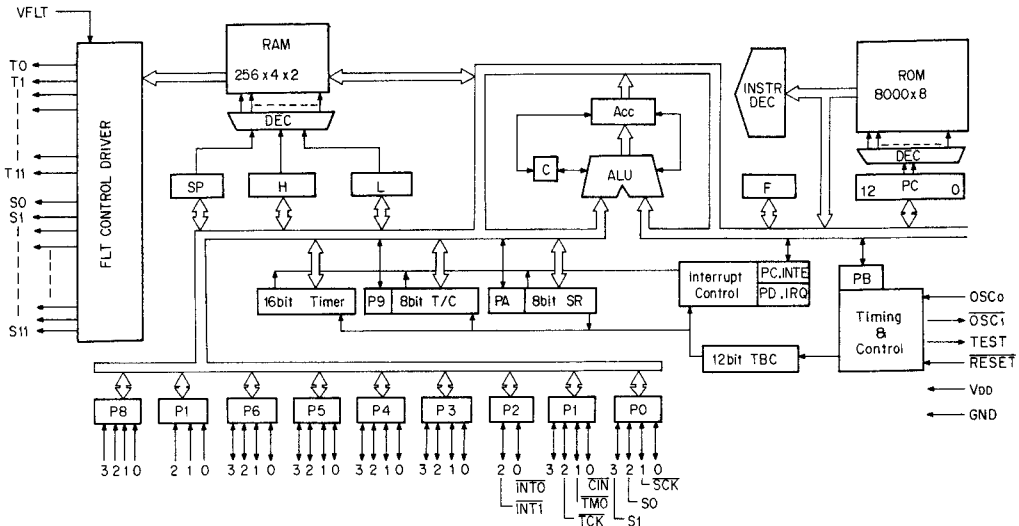
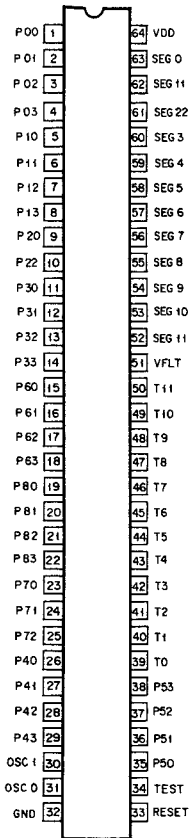
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• TOTAL FREQUENCY RESPONSE (-20 dB)

Fig. E



**μ-COM DATA IC18: MSC6458 (4-bit μ-COM)**



PIN NO.	PIN NAME	FUNCTION	PIN NO.	PIN NAME	FUNCTION
1	P00	ELECTRONIC VOLUME OUTPUT S1	33	RESET	RESET INPUT
2	P01	ELECTRONIC VOLUME OUTPUT S2	34	TEST	GND
3	P02	ELECTRONIC VOLUME OUTPUT P1	35	P 50	LED INDICATION (FORWARD)
4	P03	ELECTRONIC VOLUME OUTPUT P2	36	P 51	LED INDICATION (REVERSE)
5	P10	ELECTRONIC VOLUME OUTPUT P3	37	P 52	EJECT MOTOR CONTROL F
6	P11	ELECTRONIC VOLUME OUTPUT P4	38	P 53	EJECT MOTOR CONTROL R
7	P12	ELECTRONIC VOLUME OUTPUT P5	39	T 0	REEL MOTOR CONTROL F
8	P13	ELECTRONIC VOLUME OUTPUT P6	40	T 1	REEL MOTOR CONTROL R
9	P20	ELECTRONIC VOLUME DOWN KEY INPUT	41	T 2	ASSIST. MOTOR CONTROL F
10	P22	ELECTRONIC VOLUME UP KEY INPUT	42	T 3	ASSIST. MOTOR CONTROL R
11	P30	ELECTRONIC VOLUME REC IN MUTE	43	T 4	REEL MOTOR SPEED CONTROL 1
12	P31	AMP. SELECTOR REC SELECTOR	44	T 5	REEL MOTOR SPEED CONTROL 2
13	P33	AMP. SELECTOR METAL TAPE	45	T 6	CAPSTAN MOTOR CONTROL
14	P33	AMP. SELECTOR CrO <sub>2</sub> TAPE	46	T 7	LED COMMON C2 KEY SCAN 8
15	P60	AMP. SELECTOR NORMAL TAPE	47	T 8	LED COMMON C2 KEY SCAN 7
16	P61	AMP. SELECTOR REC MUTE	48	T 9	FL GRID G1 KEY SCAN 6
17	P62	AMP. SELECTOR LINE MUTE	49	T 10	FL GRID G6 KEY SCAN 5
18	P63	AMP. SELECTOR BIAS ON/OFF	50	T 11	FL GRID G5 KEY SCAN 4
19	P80	EXTENDED INPUT PORT 0	51	VFLT	+24V
20	P81	EXTENDED INPUT PORT 1	52	SEG 11	FL GRID G4 KEY SCAN 3
21	P82	EXTENDED INPUT PORT 2	53	SEG 10	FL GRID G3 KEY SCAN 2
22	P83	EXTENDED INPUT PORT 3	54	SEG 9	FL GRID G2 KEY SCAN 1
23	P70	REEL STAND SENSOR INPUT (SUPPLY)	55	SEG 8	FL SEGMENT h
24	P71	REEL STAND SENSOR INPUT (TAKE UP)	56	SEG 7	FL SEGMENT i
25	P72	LEADER TAPE DETECTION INPUT	57	SEG 6	FL SEGMENT g
26	P40	REMOTE CONTROL PULSE INPUT	58	SEG 5	FL SEGMENT f
27	P41	TIMER PULSE INPUT	59	SEG 4	FL SEGMENT e
28	P42	TIMER RELAY OUTPUT	50	SEG 3	FL SEGMENT d
29	P43	MUSIC SELECTION PULSE INPUT	61	SEG 22	FL SEGMENT c
30	OSC 1	CERA-LOCK 4MHz	62	SEG 11	FL SEGMENT b
31	OSC 0	CERA-LOCK 4MHz	63	SEG 0	FL SEGMENT a
32	GND	GND	64	VDD	+5V

● MODE VERSUS OUTPUT

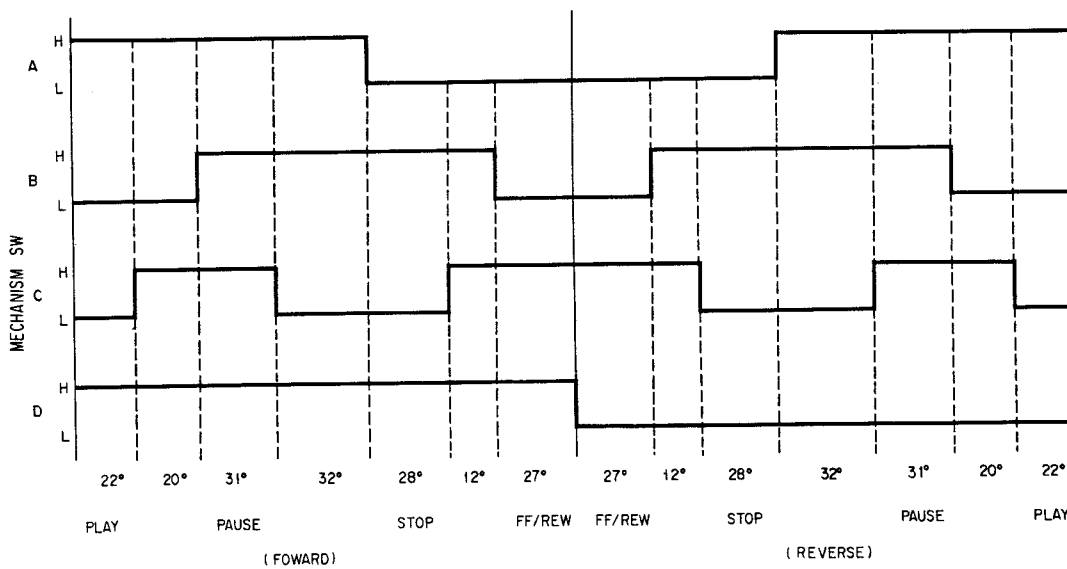
PIN NO	OUTPUT	MODE											
		STOP	F-PLAY	R-PLAY	REC-PAUSE	F-REC/PLAY	R-REC/PLAY	FF	REW	FF-HIGH	REW-HIGH	F-CUE	F-REVIEW
17	LINE MUTE	L	H	H	H	H	H	L	L	L	L	L	L
16	REC MUTE	L	L	L	L	H	H	L	L	L	L	L	L
12	R/P CONTROL	L	L	L	H	H	H	L	L	L	L	L	L
11	REC IN MUTE	L	L	L	H*	H*	H*	L	L	L	L	L	L
18	REC BIAS	H	H	H	H	L	L	H	H	H	H	H	H
39	REEL (F)	L	H	L	L	H	L	H	L	H	L	H	L
40	REEL (R)	L	L	H	L	L	H	L	H	L	H	L	H
43	REEL (1)	L	L	L	L	L	L	H	H	L	L	H	H
44	REEL (2)	H	H	H	H	H	H	L	L	L	L	L	L
45	CAPSTAN	H	H	H	H	H	H	L	L	L	L	L	L

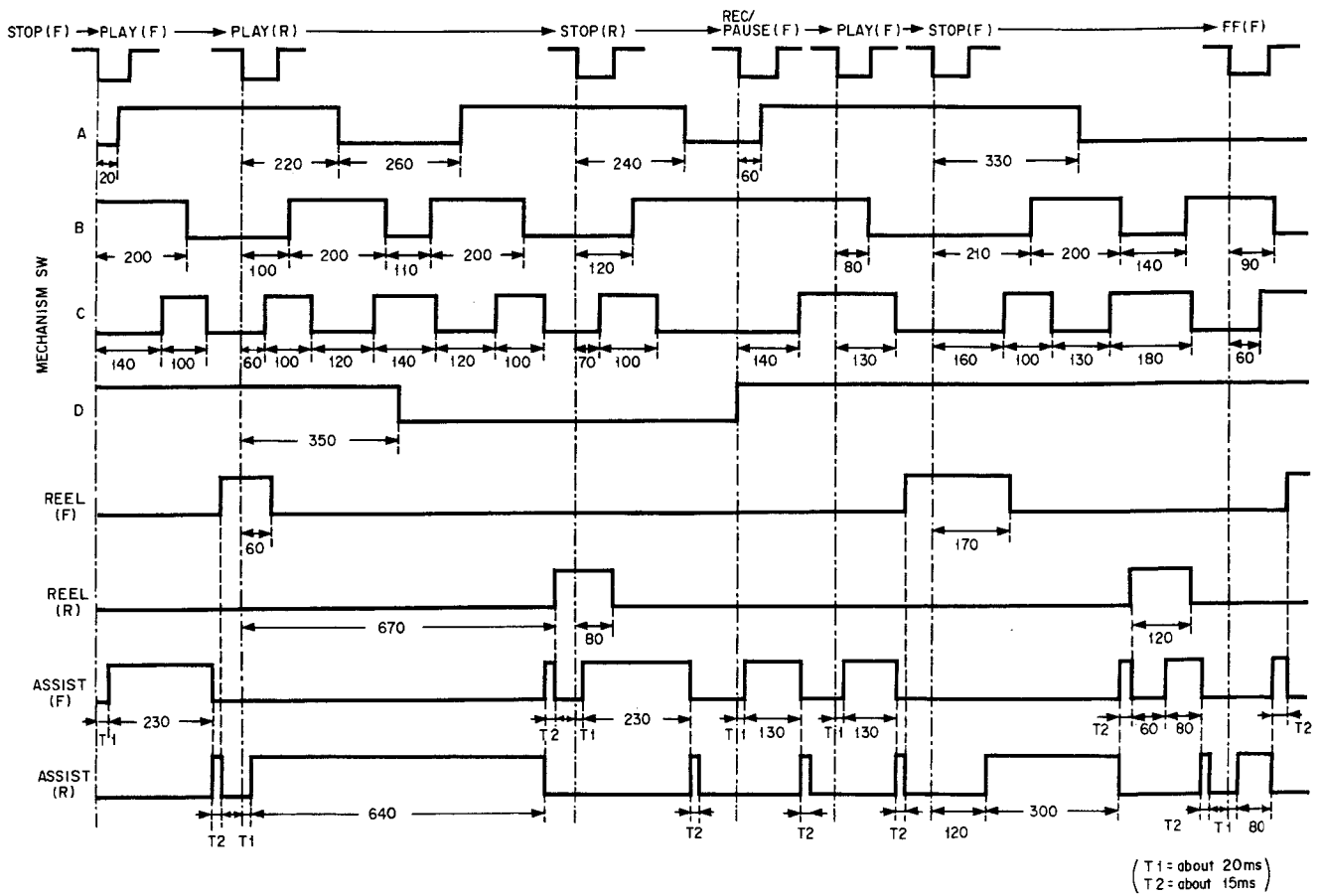
KX-R700/U

\* L changes when rec level is  $-\infty$

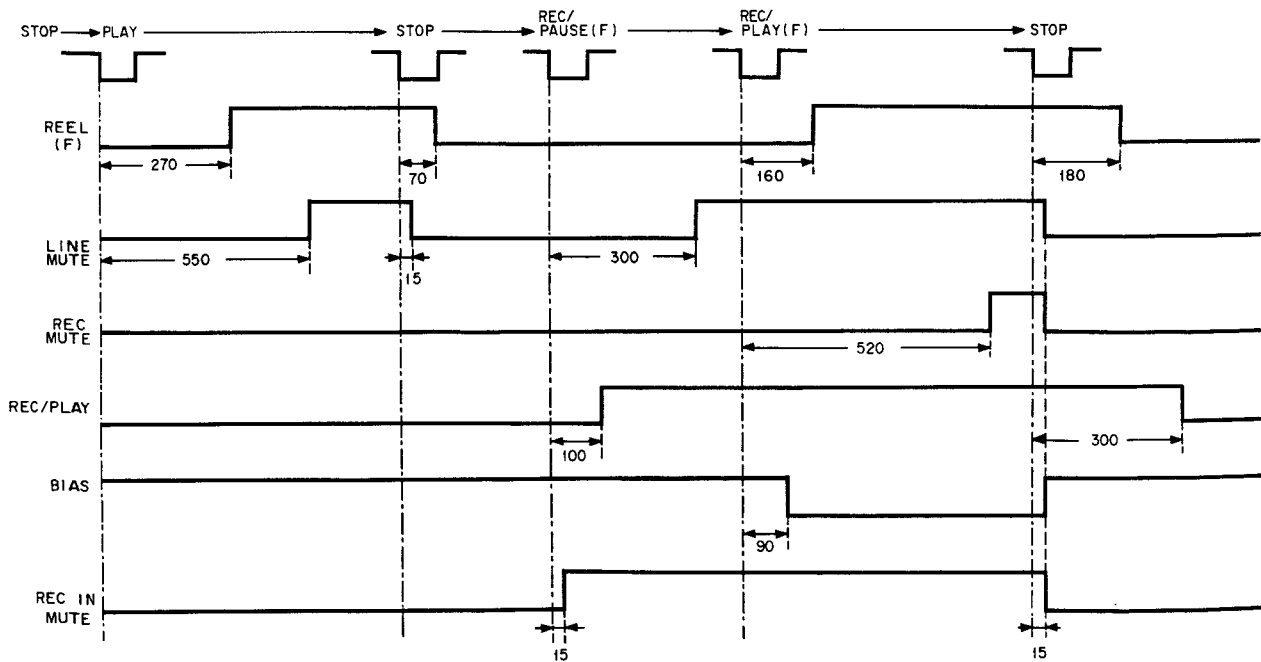
■ TIMING CHART

● MECHANISM DRIVE TIMING





● AMP SELECTOR TIMING





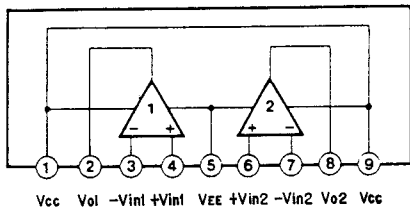
● ELECTROLYTIC VOLUME DATA (μ-COM OUTPUT)

OUTPUT	S1	S2	P1	P2	P3	P4	P5	P6	REC IN MUTE	OUTPUT	S1	S2	P1	P2	P3	P4	P5	P6	REC IN MUTE
0dB	1	1	1	1	1	1	1	1	1	-36dB	0	1	0	0	0	1	0	1	1
-1dB	1	1	0	1	1	1	1	1	1	-37dB	0	1	1	0	1	0	0	1	1
-2dB	1	1	0	1	1	1	1	1	1	-38dB	0	1	1	0	0	0	0	1	1
-3dB	1	1	1	0	1	1	1	1	1	-39dB	0	1	1	1	1	1	1	0	1
-4dB	1	1	0	0	1	1	1	1	1	-40dB	0	1	1	0	1	1	1	0	1
-5dB	1	1	1	1	0	1	1	1	1	-41dB	0	1	0	0	0	1	1	0	1
-6dB	1	1	0	1	0	1	1	1	1	-42dB	0	1	0	1	0	0	1	0	1
-7dB	1	1	1	0	0	1	1	1	1	-43dB	0	1	0	1	1	1	0	0	1
-8dB	1	1	1	1	1	0	1	1	1	-44dB	0	1	0	1	1	0	0	0	1
-9dB	1	1	0	1	1	0	1	1	1	-45dB	0	0	1	1	0	1	1	1	1
-10dB	1	1	0	0	1	0	1	1	1	-46dB	0	0	1	1	0	1	1	1	1
-11dB	1	1	0	1	0	0	1	1	1	-47dB	0	0	0	1	0	1	1	1	1
-12dB	1	1	0	0	0	0	1	1	1	-48dB	0	0	0	0	0	1	1	1	1
-13dB	1	1	1	1	1	1	0	1	1	-49dB	0	0	0	0	0	1	1	1	1
-14dB	1	1	1	0	1	1	0	1	1	-50dB	0	0	1	1	1	0	1	1	1
-15dB	1	1	0	1	0	1	0	1	1	-51dB	0	0	1	0	1	0	1	1	1
-16dB	1	1	1	1	1	0	0	1	1	-52dB	0	0	0	1	0	0	1	1	1
-17dB	1	1	1	1	0	0	0	1	1	-53dB	0	0	0	1	0	0	1	1	1
-18dB	1	1	0	0	0	0	0	1	1	-54dB	0	0	0	0	0	0	1	1	1
-19dB	1	1	1	1	1	1	1	0	1	-55dB	0	0	0	0	0	0	1	1	1
-20dB	1	1	0	1	0	1	1	0	1	-56dB	0	0	1	1	1	1	0	1	1
-21dB	1	1	0	0	1	0	1	0	1	-57dB	0	0	0	0	1	1	0	1	1
-22dB	1	1	1	1	1	1	0	0	1	-58dB	0	0	1	0	0	1	0	1	1
-23dB	1	1	0	0	0	1	0	0	1	-59dB	0	0	0	1	1	0	0	1	1
-24dB	1	1	0	0	0	0	0	0	1	-60dB	0	0	0	1	0	0	0	1	1
-25dB	0	1	0	1	0	1	1	1	1	-61dB	0	0	0	0	0	0	0	1	1
-26dB	0	1	1	0	0	1	1	1	1	-62dB	0	0	1	1	1	1	1	0	1
-27dB	0	1	0	0	0	1	1	1	1	-63dB	0	0	1	0	0	1	1	0	1
-28dB	0	1	0	1	1	0	1	1	1	-64dB	0	0	0	0	1	0	1	0	1
-29dB	0	1	1	0	1	0	1	1	1	-65dB	0	0	1	1	1	1	0	0	1
-30dB	0	1	1	1	0	0	1	0	1	-66dB	0	0	1	0	0	1	0	0	1
-31dB	0	1	0	1	0	0	1	1	1	-67dB	0	0	1	1	1	0	0	0	1
-32dB	0	1	0	0	0	0	1	1	1	-68dB	0	0	0	0	1	0	0	0	1
-33dB	0	1	1	1	1	1	0	1	1	-69dB	0	0	0	0	0	0	0	0	1
-34dB	0	1	0	1	1	1	0	1	1	-70dB	0	0	0	0	0	0	0	0	0
-35dB	0	1	1	1	0	1	0	1	1										

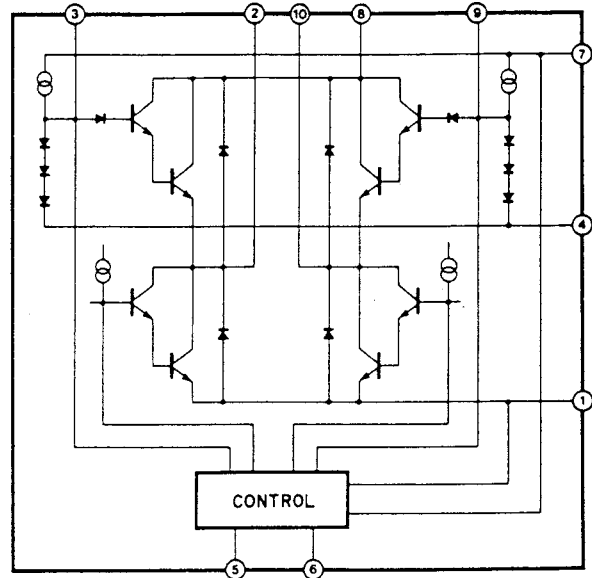
0/00/0/0/0/0



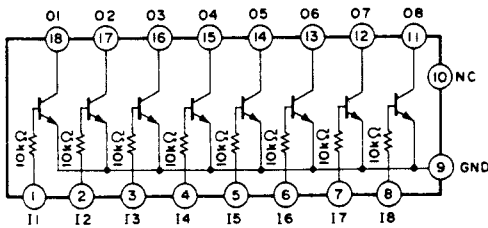
IC1, 5, 7: AN6551 or NJM4558S or BA715  
 IC6, 10, 11: NJM4556S-A  
 (Dual Ope-Amp.)



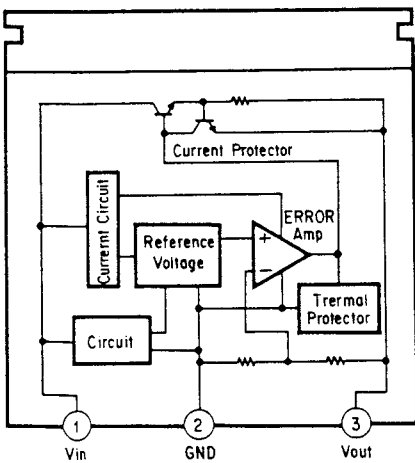
IC21: BA6229  
 (Motor Tuning IC)



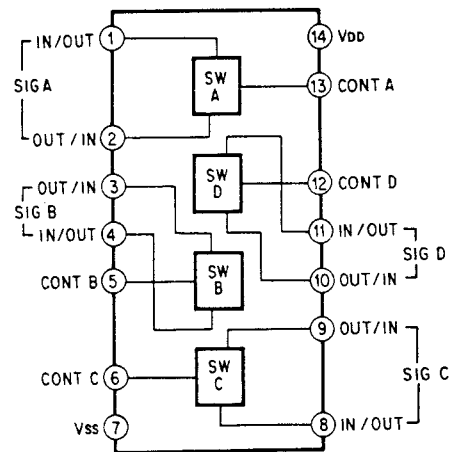
IC12: AN90B20  
 (Transistor Array)



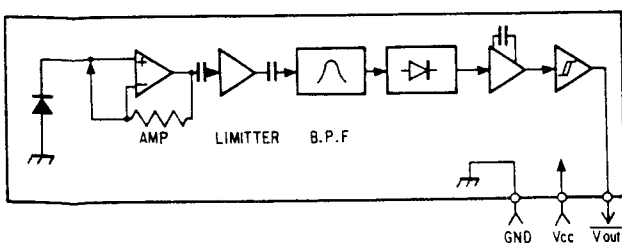
IC16: NJM78M05A  
 (Regulator)



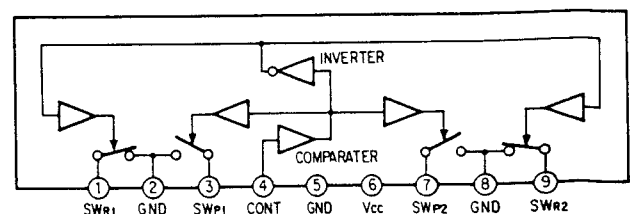
IC2: MN4066B or BU4066B  
 (Analog Switch)



U1: GP1U521  
 (Remote Control Receptor)

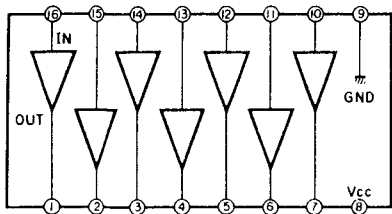


IC8:  $\mu$ PC1330HA  
 (PB/REC Head Switch IC)

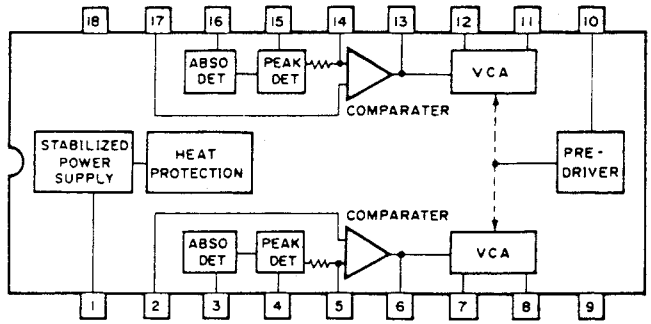


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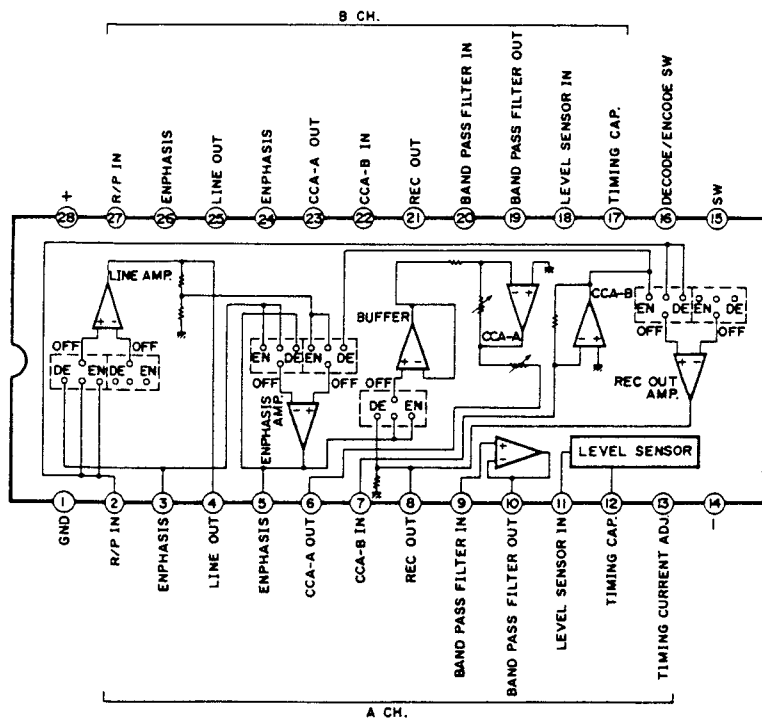
IC17: BA618  
(LED Driver)



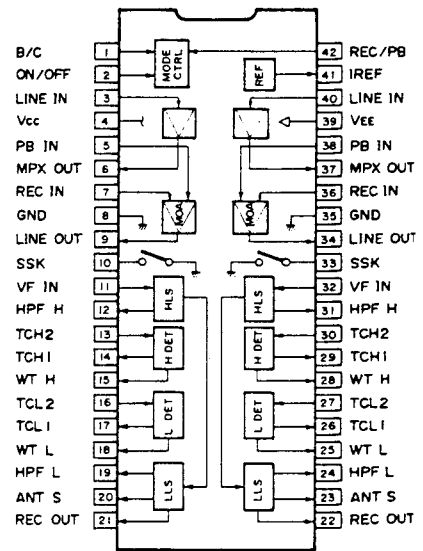
IC13:  $\mu$ PC1297CA  
(Dolby HX PRO)



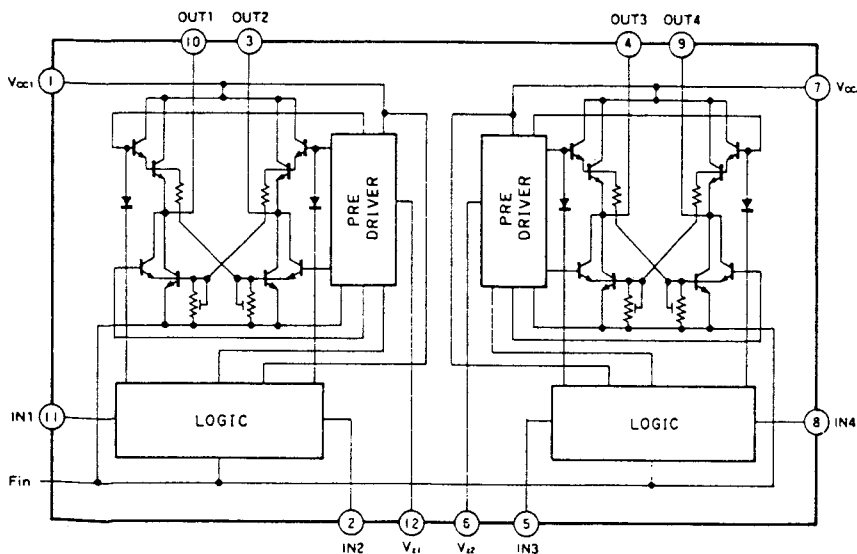
IC4: AN6294NK  
(Dual dbx Noise Reduction)



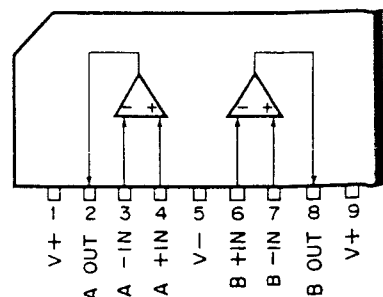
IC3: CX20187  
(Dolby B/C Type Noise Reduction)



IC22: LB1649  
(Motor Driver)

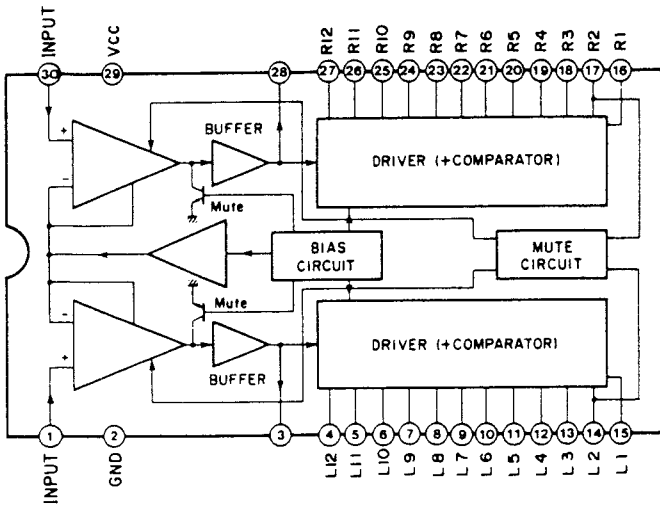


IC9: NJM2043S-D  
(Amplifier)

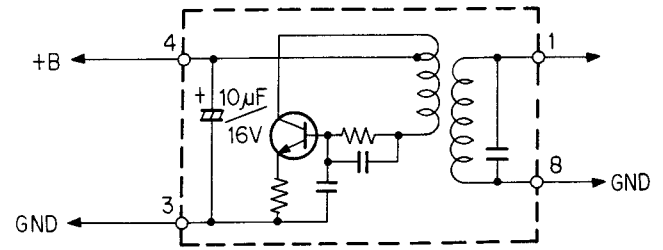


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**IC15: HA12067NT**  
(FL Meter Driver)



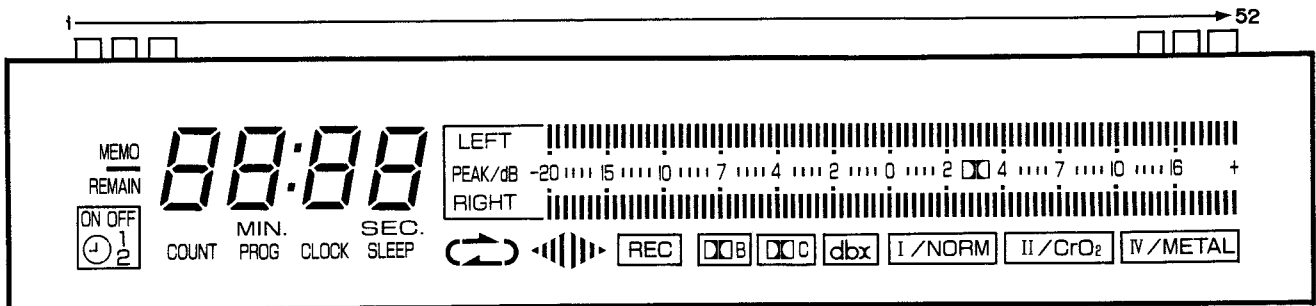
**IC14: VF648400**  
(Bias OSC Block)



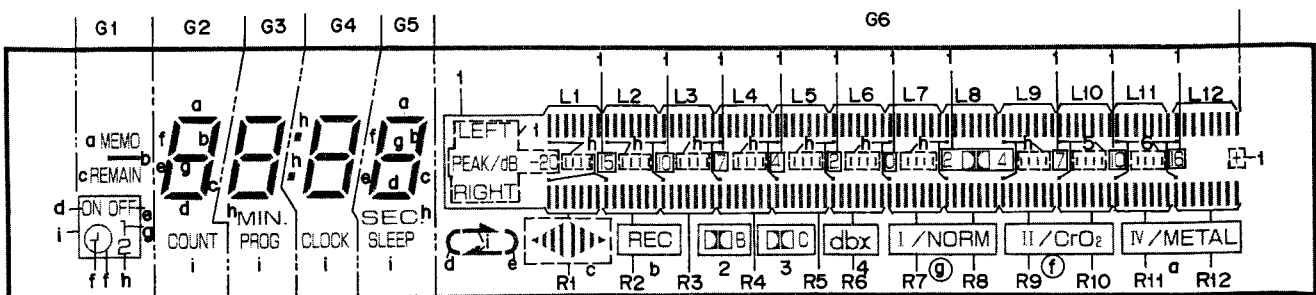
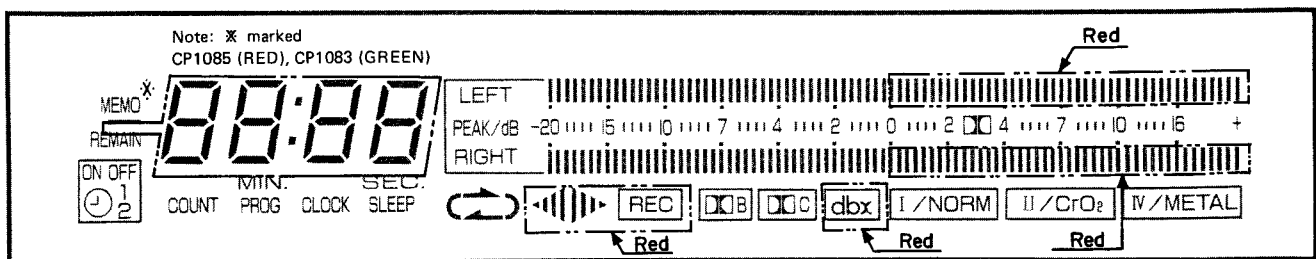
● **FL DISPLAY (Display Pattern & Pin Assignment)**

Ti: CP1083GR

BI, Si: CP1085GR



Only \* Mark part will differ.

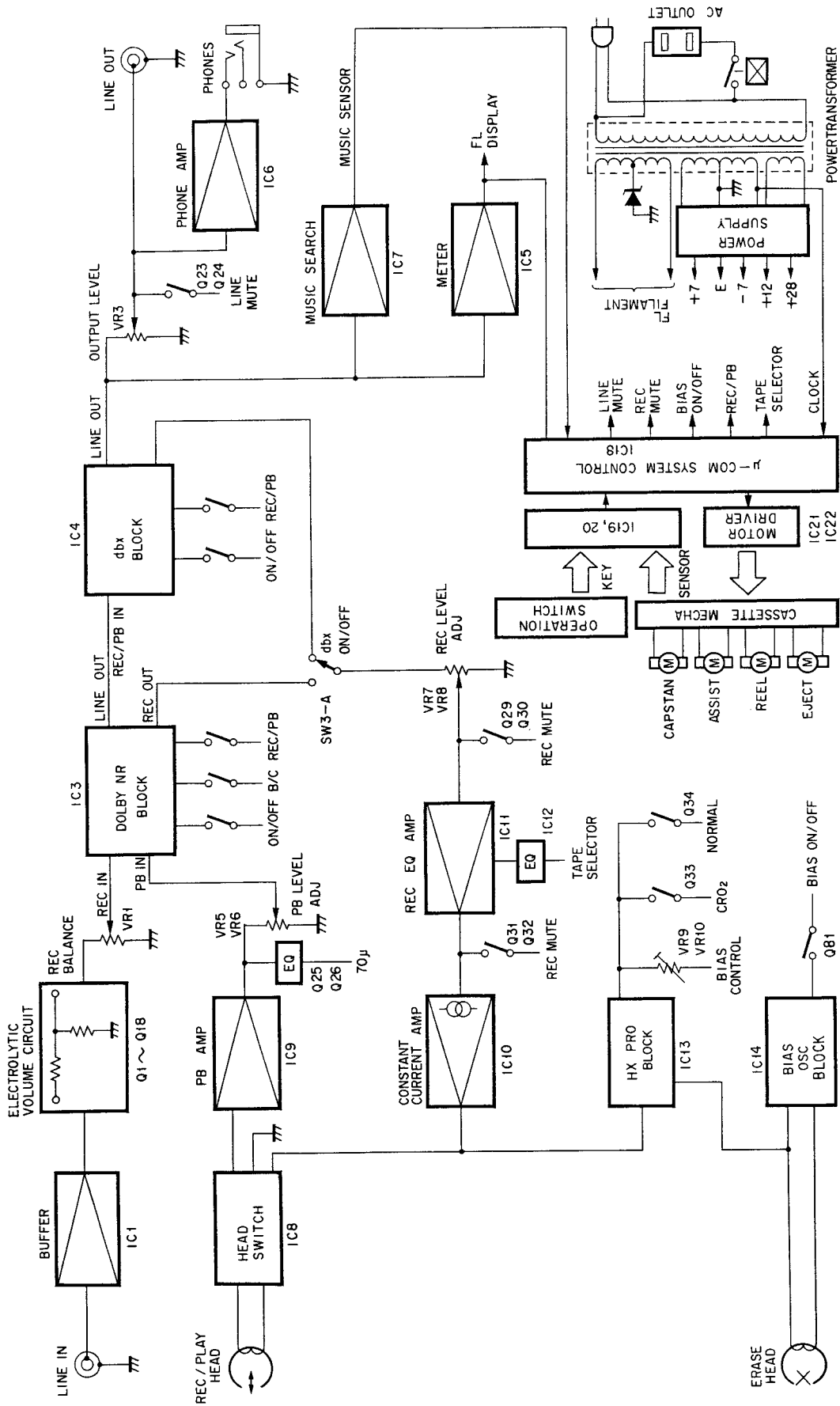


**PIN ASSIGNMENT**

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Assignment	F	F	a	b	c	f	g	e	d	i	L1	R1	L2	R2	L3	R3	L4	R4
Pin No.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Assignment	2	L5	R5	3	L6	R6	4	L7	R7	L8	R8	g	L9	R9	L10	R10	f	5
Pin No.	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
Assignment	6	L11	R11	NC	L12	R12	h	1	G6	G5	G4	G3	G2	G1	F	F		

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■ BLOCK DIAGRAM



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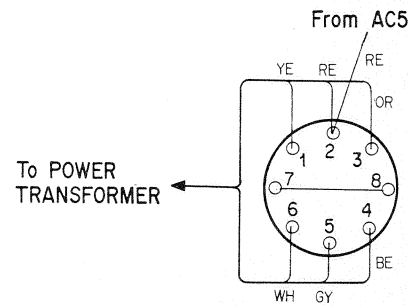


PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面 : Component Side

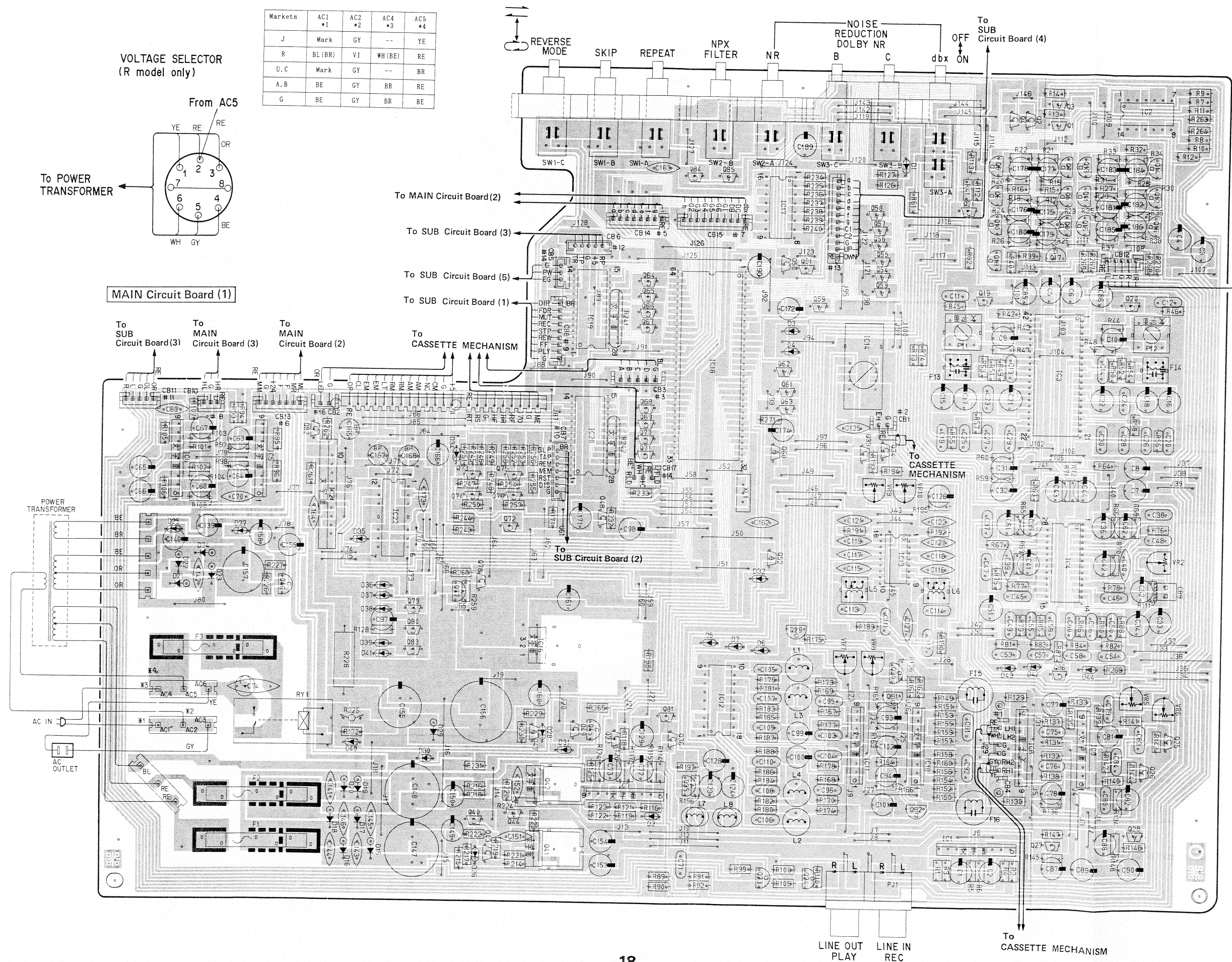
KX-R700/U

Markets	AC1 #1	AC2 #2	AC4 #3	AC5 #4
J	Mark	GY	--	YE
R	BL (BR)	VI	WH (BE)	RE
U.C	Mark	GY	--	BR
A.B	BE	GY	BR	RE
G	BE	GY	BR	BE

VOLTAGE SELECTOR (R model only)



MAIN Circuit Board (1)

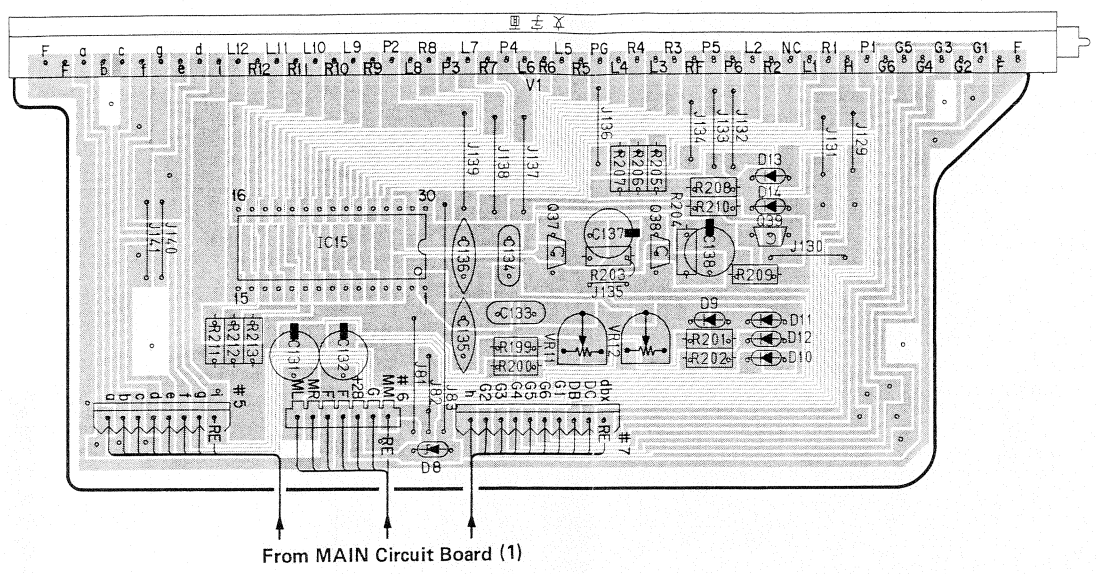


KX-R700/U

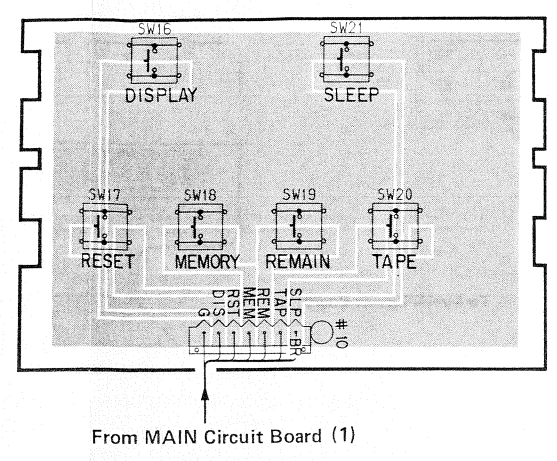


KX-R700/U  
**PRINTED CIRCUIT BOARD (Pattern Side)** (Note) 文字面 : Component Side

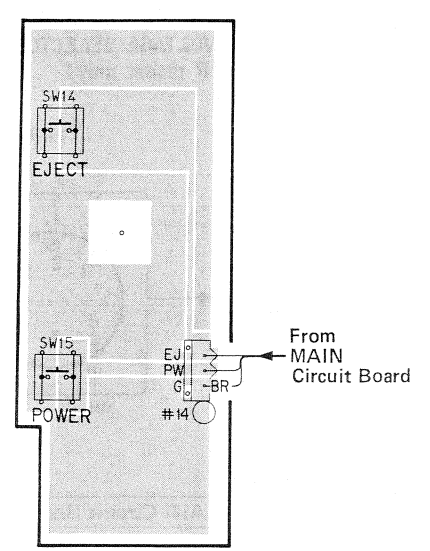
MAIN Circuit Board (2)



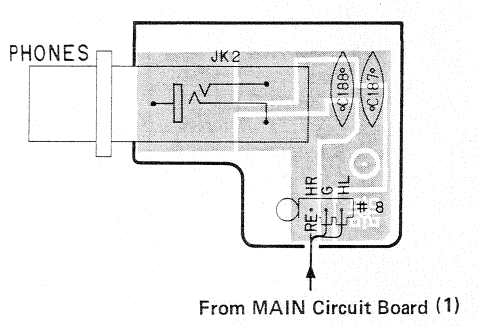
SUB Circuit Board (2)



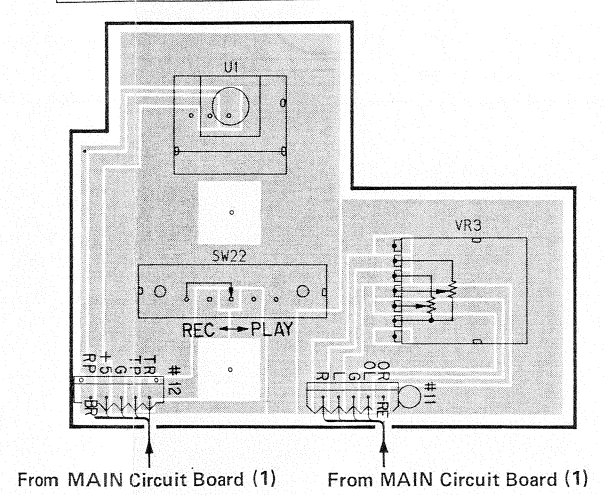
SUB Circuit Board (5)



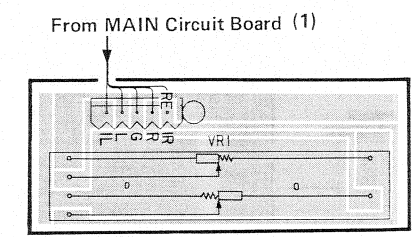
MAIN Circuit Board (3)



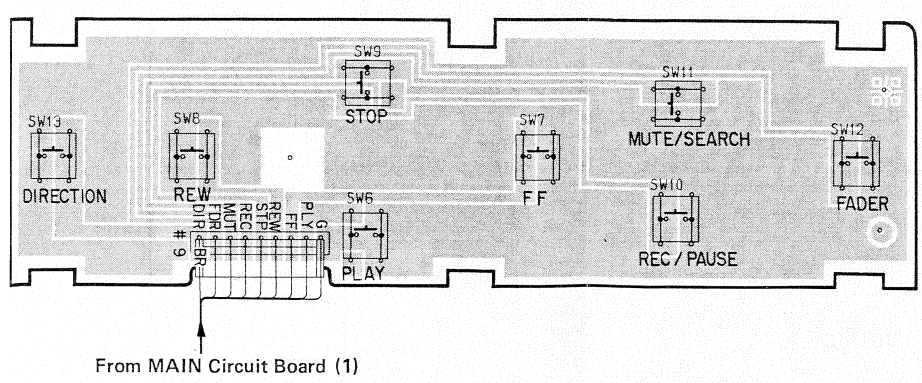
SUB Circuit Board (3)



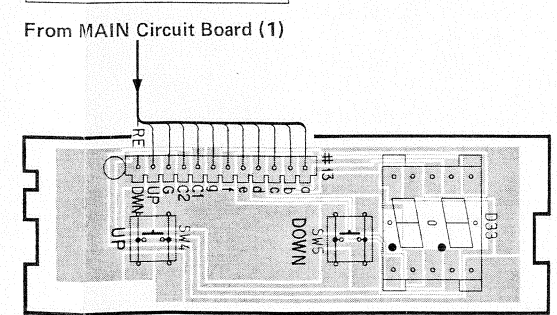
SUB Circuit Board (6)



SUB Circuit Board (1)

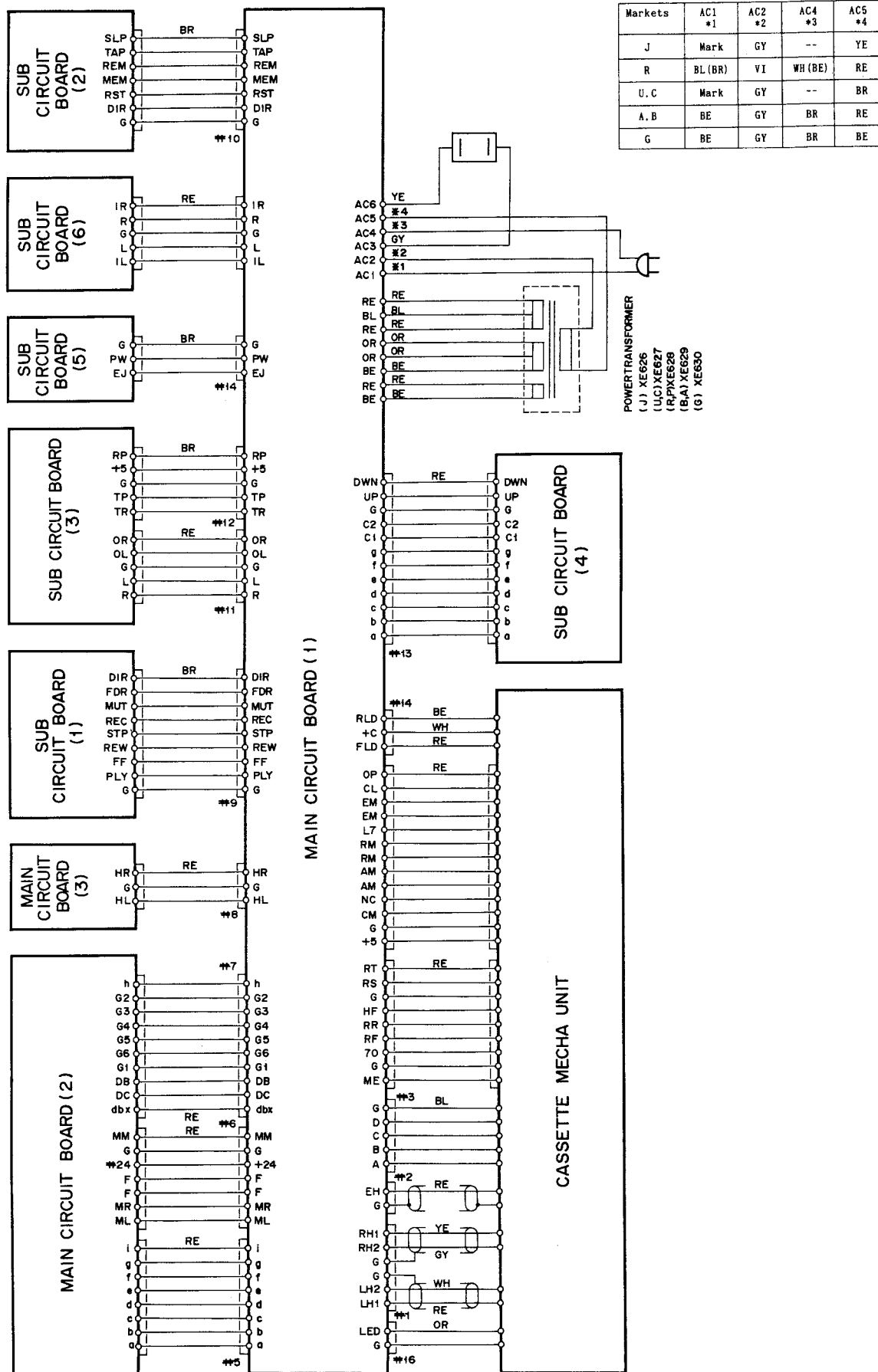


SUB Circuit Board (4)






WIRING



KX-R700/U

■ WARNING

Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.  
 ● Carbon resistors 1/6 W are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistor, refer to the last Page.

# PARTS LIST

## ■ ELECTRICAL PARTS

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
※	NA 09 84 20	<b>Sub Circuit Board Unit</b>		サブシートユニット	Black,Silver		
※	NA 09 84 30	//		//	Titan	J	
※	VF 11 36 00	Potentiometer, Slide	MN5kΩ×2	スライドボリューム	VR1		
※	VF 11 37 00	Potentiometer, Rotary	A 5kΩ×2	ロータリーボリューム	VR3		
※	VF 07 02 00	LED Display		LED ディスプレイ	D33 Silver, Black		
	VF 29 75 00	//		//	D33 Titan		
	VE 63 29 00	Receptor Unit		受 光 ユ ニ ッ ト	UI		
	VE 32 73 00	Switch	KHHMA90I	タクトスイッチ	SW4~21	} Inter-changeable	
	KA 90 63 80	//	5MEVQ-QRB-04M	ライトタッチスイッチ	//		
※	VF 11 31 00	Switch, Slide	I-3	スライドスイッチ	SW22		
※	VE 94 11 00	Support, LED		LED サポート			
※	NA 09 84 40	<b>Main Circuit Board Unit</b>		メインシートユニット	Black	J	
※	NA 09 84 50	//		//	Black, Silver	U,C	
※	NA 09 84 60	//		//	//	R	
※	NA 09 84 70	//		//	//	A,B,G	
※	NA 09 84 80	//		//	Titan	J	
	VA 89 13 00	Ceramic Cap.	0.01μF CK45-YKN	セラコン	C74	} Inter-changeable	J
	VA 98 55 00	//	0.01μF MAE	//	//		J
	Fi 41 41 00	//	0.01μF VA-I	//	//		U,C,R,A,B,G
	Fi 51 41 00	//	0.01μF DNS	//	//		//
	VA 89 08 00	//	0.01μF 400V	//	//		//
	FG 21 23 30	//	330pF 50V	//	C39,40		
	FG 11 25 60	//	560pF 50V	//	C121,122		
	FG 21 31 00	//	1000pF 50V	//	C135,136		
	FG 24 41 00	//	0.01μF 50V	//	C69,70,119,120,141~146,151,152 162~164,173,187,188		
	FG 24 41 50	//	0.015μF 50V	//	C115,116		
	FG 24 42 20	//	0.022μF 50V	//	C117,118		
	FG 24 44 70	//	0.047μF 50V	//	C127		
	FH 61 11 00	//	10pF 500V	//	C125		
	FA 15 33 30	Mylar Cap.	3300pF 50V	マイラーコン	C11,12,55~58		
	FA 15 32 00	//	2000pF 50V	//	C105,106		
	FA 15 34 70	//	4700pF 50V	//	C13,14,107,108		
	FA 15 35 60	//	5600pF 50V	//	C109,110		
	FA 15 36 80	//	6800pF 50V	//	C27,28		
	FA 15 41 00	//	0.01μF 50V	//	C29,30,71		
	FA 15 41 30	//	0.013μF 50V	//	C79,80		
	FA 15 41 50	//	0.015μF 50V	//	C19,20,83,84,103,104		
	FA 15 41 80	//	0.018μF 50V	//	C47,48		
	FA 15 44 70	//	0.047μF 50V	//	C25,26		
	FA 15 46 80	//	0.068μF 50V	//	C23,24		
	FA 15 51 00	//	0.1μF 50V	//	C37,38,49,50,53,54		
	FA 15 51 20	//	0.12μF 50V	//	C95,96		
	FA 15 51 80	//	0.18μF 50V	//	C45,46,133,134		

※New Parts (新規部品)

Ref. No.	Part No.	Description			部 品 名	Remarks	Common Model	Markets	ランク
	UJ 13 74 70	Electrolytic Cap.	47μF	16V	ケ ミ コ ン	C3,4,97,123,124,139,140			
	UJ 13 81 00	//	100μF	16V	//	C149,150			
	UJ 13 83 30	//	330μF	16V	//	C128			
	UJ 14 64 70	//	4.7μF	25V	//	C43,44,61,62			
	UJ 14 71 00	//	10μF	25V	//	C1,2,9,10,31~34,72,126,131,132,161,171,174			
	UJ 14 72 20	//	22μF	25V	//	C35,36,41,42,51,52,67,68,99,100,129,137,138,160			
	UJ 15 71 00	//	10μF	35V	//	C159			
	UJ 15 81 00	//	100μF	35V	//	C158			
	UW 36 51 50	//	0.15μF	50V	//	C17,18			
	UJ 16 52 20	//	0.22μF	50V	//	C21,22			
	UJ 16 54 70	//	0.47μF	50V	//	C15,16,189,190			
	UJ 16 51 00	//	0.1μF	50V	//	C175~186			
	UJ 16 61 00	//	1μF	50V	//	C63~66,73,87,88,98,166,172			
	UH 13 94 70	//	4700μF	16V	//	C156			
	UH 14 91 00	//	1000μF	25V	//	C155			
※	UH 16 84 70	//	470μF	50V	//	C157			
	VE 01 66 00	//	220μF	6.3V	//	C77,78			
	VE 01 80 00	//	220μF	16V	//	C89,90			
	VE 01 83 00	//	10μF	25V	//	C7,8,81,82,93,94,101,102,153,154			
	VE 01 99 00	//	2.2μF	50V	//	C5,6,85,86			
	VC 78 07 00	//	1000μF	25V	//	C147,148			
	FM 11 61 00	//	1μF	50V	B P コ ン	C165,167,168			
	UT 45 21 00	Polypropylene Film Cap.	100pF	100V	ポ リ プ ロ コ ン	C111,112			
	UT 45 23 30	//	330pF	100V	//	C59,60			
	UT 45 22 70	//	270pF	100V	//	C113,114			
	UT 45 28 20	//	820pF	100V	//	C75,76,91,92			
※	VF 64 83 00	MPX Filter			M P X フ ィ ル タ ー	Fi1,2			
	VD 85 28 00	Bias Trap Coil	210kHz		バイアストラップコイル	Fi5,6			
	VB 75 88 00	Skewing Coil			スキューイングコイル	Fi3,4			
	GE 90 16 50	Coil	15mH		3 端 子 固 定 コ イ ル	L3,4			
※	GE 90 16 70	//	22mH		//	L1,2			
	GE 90 09 60	//	820μH		固 定 コ イ ル	L7,8			
※	VD 97 56 00	Step-up Coil	210kHz		ステップアップコイル	L5,6			
	VD 82 76 00	Ceramic Resonator	4MHz		セラミック振動子	XL1			
	HV 45 43 90	Flame Proof Carbon Resistor	39Ω	1/4W	不燃化カーボン抵抗	R225			
	HL 32 42 70	Metal Oxide Film Resistor	27Ω	2W	酸 金 抵 抗	R228			
	VE 11 14 00	Resistor Array	RYL10kΩ×8		抵 抗 ア レ ー	R241,242			
	VB 86 14 00	Pre-set Potentiometer	B4.7kΩ		半 固 定 抵 抗	VR2,7~10			
	VB 86 16 00	//	B 22kΩ		//	VR5,6,11,12			
	iD 04 00 10	Transistor	2SD400		ト ラ ン ジ ス タ ー	Q45,46	} Inter-changeable		
	iC 20 60 00	//	2SC2060		//	//			
	iA 09 34 00	//	2SA934		//	Q35,77	} Inter-changeable		
	iB 05 44 10	//	2SB544		//	//			
	iA 11 15 10	//	2SA1115(E,F)		//	Q28,44,47	} Inter-changeable		
	iA 09 33 70	//	2SA933S(Q,R)		//	//			
	iX 60 31 70	//	2SA1310(R,S,T)		//	//			

※ New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
	iC 26 03 10	Transistor	2SC2603(E,F)	トランジスター	Q27,39,43 72~76,82	Inter-changeable	
	iC 17 40 70	//	2SC1740S(S,R)	//	//		
	iX 60 31 80	//	2SC3312(R,S,T)	//	//		
	iD 06 55 10	//	2SD655(E,F)	//	Q5~18,23 24,29~32	Inter-changeable	
	iD 13 02 00	//	2SD1302(R,S)	//	//		
	VA 71 00 00	//	2SD1468(Q,R,S)	//	//		
	VD 67 85 00	Digital Transister	DTA114ES	デジタルトランジスター	Q1,3,52~63,85		
	VD 67 87 00	//	DTC114ES	//	Q2,4,19~22,25,26,33,34,36~38, 40,48~51,64~71,78~81,83,84,86		
	iB 07 86 00	Transister	2SB786	トランジスター	Q42		
	iD 09 47 00	//	2SD947	//	Q41		
	iF 00 34 50	Diode	ISS133	ダイオード	D1~7,9~14,28,30~32 34,40,43,44		
	iF 00 84 80	//	ISR35-100A	//	D15~24,29		
	iF 01 07 10	Zener Diode	MTZ5.6A	ツェナーダイオード	D41		
	iF 00 88 00	//	MTZ3.6A	//	D25		
	iF 01 07 40	//	MTZ6.2B	//	D37		
	iF 00 64 70	//	MTZ7.5B	//	D35		
	iF 01 08 70	//	MTZ9.1C	//	D36,42		
	iF 01 06 30	//	MTZ4.3B	//	D8,38		
	iF 01 06 90	//	MTZ5.1B	//	D26		
	iF 00 91 60	//	MTZ30B	//	D27		
※	VF 11 30 00	Fluorescence Display	CP1083GR	螢光表示管	VI Titan		
※	VF 29 74 00	//	CP1085GR	//	VI Black, Silver		
	XA 29 90 01	IC	LBI649	I C	IC22		
	iG 03 47 00	//	AN6551	//	IC1,5,7	Inter-changeable	
	iG 07 68 00	//	NJM4558S	//	//		
	iG 13 22 00	//	BA715	//	//		
	iG 07 74 10	//	NJM4556S-A	//	IC6,10,11		
	iG 08 29 00	//	NJM2043S-D	//	IC9		
	XD 08 40 01	//	MN4066B	//	IC2	Inter-changeable	
	XD 14 80 01	//	BU4066B	//	//		
	XA 30 00 01	//	μPC1297CA	//	IC13		
	iG 14 60 00	//	HA12067NT	//	IC15		
	XB 29 80 01	//	CX20187	//	IC3		
	XC 84 40 01	//	AN6294NK	//	IC4		
	XD 86 40 01	//	μPC1330HA	//	IC8		
	iG 07 56 00	//	NJM78M05A	//	IC16		
	iG 13 20 00	//	BA618	//	IC17		
※	XE 42 50 02	//	MSC6458-25SS	//	IC18		
	iG 14 63 00	//	LC7800	//	IC19,20		
	iG 15 25 00	//	BA6229	//	IC21		
	iG 08 99 00	Transistor Array	AN90B20	トランジスターアレー	IC12		
※	VF 64 84 00	Bias OSC Block		バイアスOSCブロック	IC14		
※	VF 11 73 00	Switch	2-2-2	プッシュスイッチ	SW1		
※	VF 11 32 00	//	2-2	//	SW2		
※	VF 11 74 00	//	2-2-4	//	SW3		
	KB 00 03 30	Fuse	T1.0A 250V	ヒューズタイラッシュ	F1,2		J,R
	KB 00 10 60	//	1.0A 250V UL ST-4	ヒューズ	F1,2		U,C

※ New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名		Remarks	Common Model	Markets	ランク
	KB 00 07 20	FUSE	T800mA	250V	ヒューズタイムラグ	F1,2	A,B,G	
	KB 00 04 00	//	T5A	250V	ヒューズタイラッシュ	F3	J,R	
	KB 00 25 90	//	5A 250V UL	ST-6	ヒューズ	F3	U,C	
	KB 00 13 30	//	T2.0A	250V	ヒューズタイムラグ	F3	A,B,G	
	VE 56 89 00	Relay	DC DHI2D1-0(M)		リレー	RY1		
	LB 30 17 60	Phone Jack			ヘッドホンジャック	JK2	Silver, Black	
	VC 25 79 00	//			//	JK2	Titan	
	LB 40 10 50	Pin Jack	4P		ピンジャック	JK1		
	VD 65 04 00	Base Pin, EH	2P	i-Type	E H ベースピン	CB1,2		
	VC 01 49 00	//	5P	i-Type	//	CB3		
	VD 65 06 00	//	6P	i-Type	//	CB4		
	LB 92 50 30	Short Plug, Z	3P	2mm Pitch	Z ショートプラグ	CB5		
	LB 92 50 50	//	5P	2mm Pitch	//	CB6		
	LB 92 50 70	//	7P	2mm Pitch	//	CB7		
	LB 20 13 90	Base Pin, NH	2P	i-Type	N H ベースピン	CB9		
	VD 00 46 00	Base Pin, PH	3P	i-Type	P H ベースピン	CB10		
	VD 00 48 00	//	5P	i-Type	//	CB11,12		
	VD 00 50 00	//	7P	i-Type	//	CB13		
	VD 00 51 00	//	8P	i-Type	//	CB14		
	VD 00 53 00	//	10P	i-Type	//	CB15		
	VC 16 67 00	//	12P	i-Type	//	CB16		
	VD 00 52 00	//	9P	i-Type	//	CB8		
	LB 91 80 30	Base Pin, XH	3P	i-Type	X H ベースピン	CB17		
	LA 00 41 20	Test Point Pin			テストポイントピン			
	LA 00 20 40	Wrapping Terminal	5P P=5	i-Type	ラッピング端子板			
	LA 00 23 20	//	3P P=7.5	i-Type	//			
	LB 20 18 80	Fuse Holder Pin	PC-FH1		ヒューズホルダーピン			
	BA 08 40 00	Heat Sink			放熱板			
	VE 94 12 00	FL Filter			蛍光表示管フィルター			
	AA 62 41 10	FL Holder			蛍光表示管ホルダー			
	CB 60 56 20	Plastic Rivet			プラスチックリベット			
	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)

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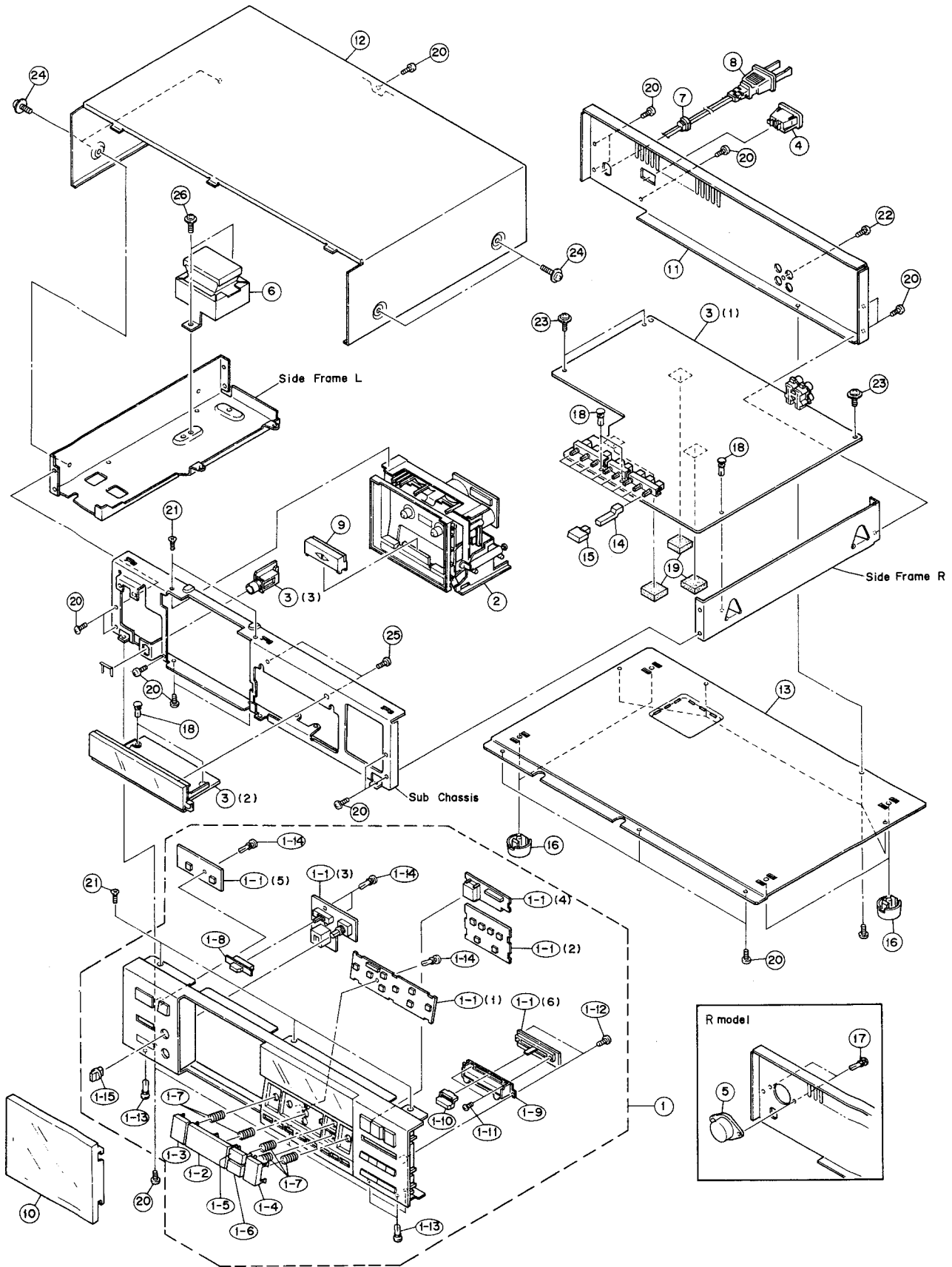
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# KX-R700/U EXPLODED VIEW



EXPLODED VIEW PARTS

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
※ 1	VF 22 41 00	Panel Unit	パネルユニット	Black			
※ //	VF 22 42 00	//	//	Titan		J	
※ //	VF 22 43 00	//	//	Silver		U,C,R,A,B,G	
※ 1-1	NA 09 84 20	Sub Circuit Board	サブシート	Black, Silver			
※ //	NA 09 84 30	//	//	Titan		J	
※ 1-2	CB 62 56 90	Button-P	ボタン P	Silver OPERATION		U,C,R,A,B,G	
※ //	CB 62 57 00	//	//	Black //			
※ //	VE 93 48 00	//	//	Titan //		J	
※ 1-3	CB 62 92 30	Button-D	ボタン D	Silver (DIRECTION)		U,C,R,A,B,G	
※ //	CB 62 92 40	//	//	Black //			
※ //	VE 93 49 00	//	//	Titan //		J	
※ 1-4	CB 62 92 70	Button-F	ボタン F	Silver FADER		U,C,R,A,B,G	
※ //	CB 62 92 80	//	//	Black //			
※ //	VE 93 50 00	//	//	Titan //		J	
※ 1-5	CB 62 91 50	Button-R	ボタン R	Silver REC PAUSE		U,C,R,A,B,G	
※ //	CB 62 91 60	//	//	Black //			
※ //	VE 93 51 00	//	//	Titan //		J	
※ 1-6	CB 62 91 90	Button-M	ボタン M	Silver MUTE SEARCH		U,C,R,A,B,G	
※ //	CB 62 92 00	//	//	Black //			
※ //	VE 93 52 00	//	//	Titan //		J	
※ 1-7	AA 61 89 90	Spring, Button	ボタンスプリング				
※ 1-8	VE 93 53 00	Knob	ノブ	Silver TIMER		U,C,R,A,B,G	
※ //	VE 93 54 00	//	//	Black //			
※ //	VE 93 55 00	//	//	Titan //		J	
※ 1-9	VE 93 56 00	Case, Knob	ノブケース	Silver		U,C,R,A,B,G	
※ //	VE 93 57 00	//	//	Black			
※ //	VE 93 58 00	//	//	Titan		J	
※ 1-10	VE 93 59 00	Knob	ノブ	Silver BALANCE		U,C,R,A,B,G	
※ //	VE 93 60 00	//	//	Black //			
※ //	VE 93 61 00	//	//	Titan //		J	
※ 1-11	ED 02 00 36	Binding Head Screw	2×3 ZMC2-Y	バインド小ネジ	PACK		
※ 1-12	Ei 02 60 66	Binding Head Tapping Screw	2.6×6 ZMC2-Y	バインドタッピングネジ	PACK		
※ 1-13	CB 06 88 80	Plastic Rivet		プラスチックリベット			
※ 1-14	CB 60 56 20	//		//			
※ 1-15	VE 94 09 00	Knob	ノブ	Silver OUTPUT LEVEL		U,C,R,A,B,G	
※ //	VC 40 57 00	//	//	Black //			
※ //	VE 94 10 00	//	//	Titan //		J	
※ 2	VF 24 79 00	Cassette Mechanism	SMD1216	カセットメカ	Silver, Black		
※ //	VF 24 80 00	//	SMD1217	//	Titan	J	
※ 3	NA 09 84 40	Main Circuit Board		メインシート	Black	J	
※ //	NA 09 84 50	//		//	Black, Silver	U,C	
※ //	NA 09 84 60	//		//	//	R	
※ //	NA 09 84 70	//		//	//	A,B,G	
※ //	NA 09 84 80	//		//	Titan	J	
※ 4	LB 20 30 60	AC Outlet	S-16519	アウトレット		J,U,C,R	
※ //	VC 62 68 00	//	2P CM-3I	//		G	
※ //	VC 62 61 00	//	S2-739T	//		A	
※ //	VC 62 70 00	//	2P CM20	//		B	
※ 5	LB 20 14 80	Voltage Selector	0211	電圧切換器		R	
※ 6	XE 42 80 01	Power Transformer		電源トランス		R	△
※ //	XE 42 60 01	//		//		J	△
※ //	XE 42 70 01	//		//		U,C	△

※New Parts (新規部品)

KX-R700/U

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KX-R700/U

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
※ 6	XE 42 90 01	Power Transformer	電 源 ト ラ ン ス			A,B	▲
※ //	XE 43 00 01	//	//			G	▲
7	CB 61 68 10	Cord Stopper	コ ー ド ス ト ッ パ ー			J	▲
※ //	CB 62 01 90	//	//			R,A,B,G	▲
※ //	CB 62 02 00	//	//			U,C	▲
8	MG 00 23 10	AC Power Cord	電 源 コ ー ド			A	▲
※ //	MG 00 22 20	//	//			U,C	▲
※ //	MG 00 23 20	//	//			G	▲
※ //	MG 00 16 30	//	//			R	▲
※ //	VE 37 08 00	//	//	} Inter-changeable		J	▲
※ //	MG 00 22 90	//	//		J	▲	
※ //	MG 00 23 30	//	//		B	▲	
9	NB 61 47 00	Direction Cap Ass'y	デイレクションキャップAss'y				
※ 10	VE 94 02 00	Lid	リ ッ ツ ド	Silver, Black		J,R,A,B,G	
※ //	VE 94 03 00	//	//	//		U,C	
※ //	VE 94 05 00	//	//	Titan		J	
※ 11	VE 93 95 00	Rear Panel	リ ア パ ネ ル			J	
※ //	VE 93 96 00	//	//			U,C	
※ //	VE 93 97 00	//	//			R	
※ //	VE 93 98 00	//	//			A	
※ //	VF 09 56 00	//	//			B	
※ //	VE 93 99 00	//	//			G	
12	AA 61 81 40	Top Cover	ト ッ プ カ バ ー	Silver		U,C,R,A,B,G	
※ //	AA 61 85 80	//	//	Black			
※ //	VE 94 00 00	//	//	Titan		J	
※ 13	VE 94 01 00	Bottom Cover	ボ ト ム カ バ ー				
※ 14	VE 94 08 00	Rod	ロ ッ ド				
15	CB 65 92 80	Button	ボ タ ン	Silver			
※ //	CB 65 92 70	//	//	Black			
※ //	VF 23 10 00	//	//	Titan		J	
※ 16	VF 63 95 00	Leg	脚	Titan, Black		J	
※ //	CB 61 03 90	//	//	Silver, Black		U,C,R,A,B,G	
17	CB 06 88 80	Plastic Rivet	プ ラ ス チ ッ ク リ ベ ッ ト			R	
18	CB 60 56 20	//	//				
19	CB 61 22 40	Cushion	シ ー ト ク ッ シ ョ ン				
20	Ei 33 00 86	Binding Head Tapping Screw	3×8 FCRM3-BI	バ イ ン ド タ ッ ピ ン グ ネ ジ	PACK		
21	EO 33 00 86	Flat Head Tapping Screw	3×8 FCRM3-BI	皿 タ ッ ピ ン グ ネ ジ	PACK		
22	EN 33 50 30	Bonding Tap Screw	3×10 FCRM3-BI	ボ ン デ ィ ン グ ネ ジ			
23	EK 33 60 10	BW Head Tapping Screw	3×8 FCM3-BI	BWヘッドタッピングネジ			
24	EK 13 00 20	BW Head Screw	4×8 FNM3-3g	B W ヘ ッ ド 小 ネ ジ	Silver, Titan		
※ //	EK 36 50 40	//	4×8 FCM3-BI	//	Black		
25	ED 03 00 46	Binding Head Screw	3×4 ZMC2-Y	バ イ ン ド 小 ネ ジ	PACK		
26	EK 01 00 10	Pan Head Sems Screw	4×8 ZMC2-Y	セ ム ス 小 ネ ジ	3ピース		
	CB 06 92 51	Binding Tie	BK-1	イ ン シ ュ ロ ッ ク タイ	PACK		

※ New Parts (新規部品)





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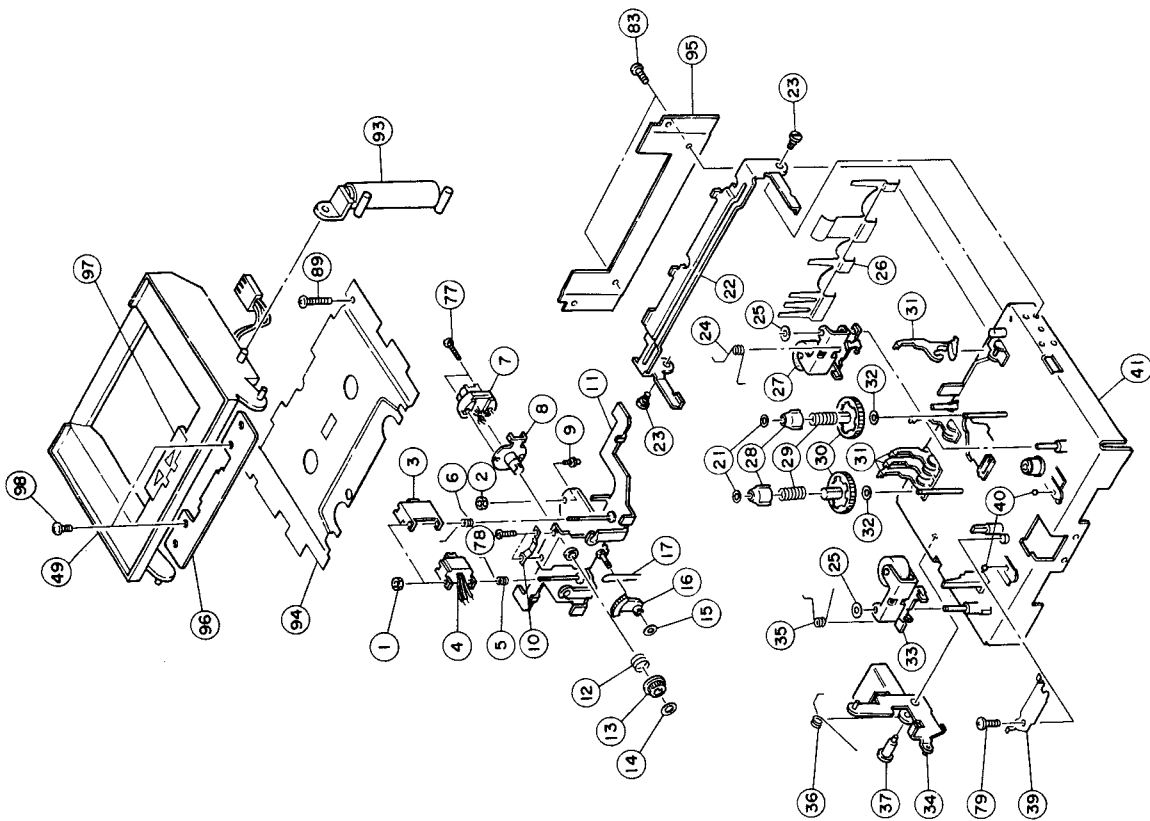
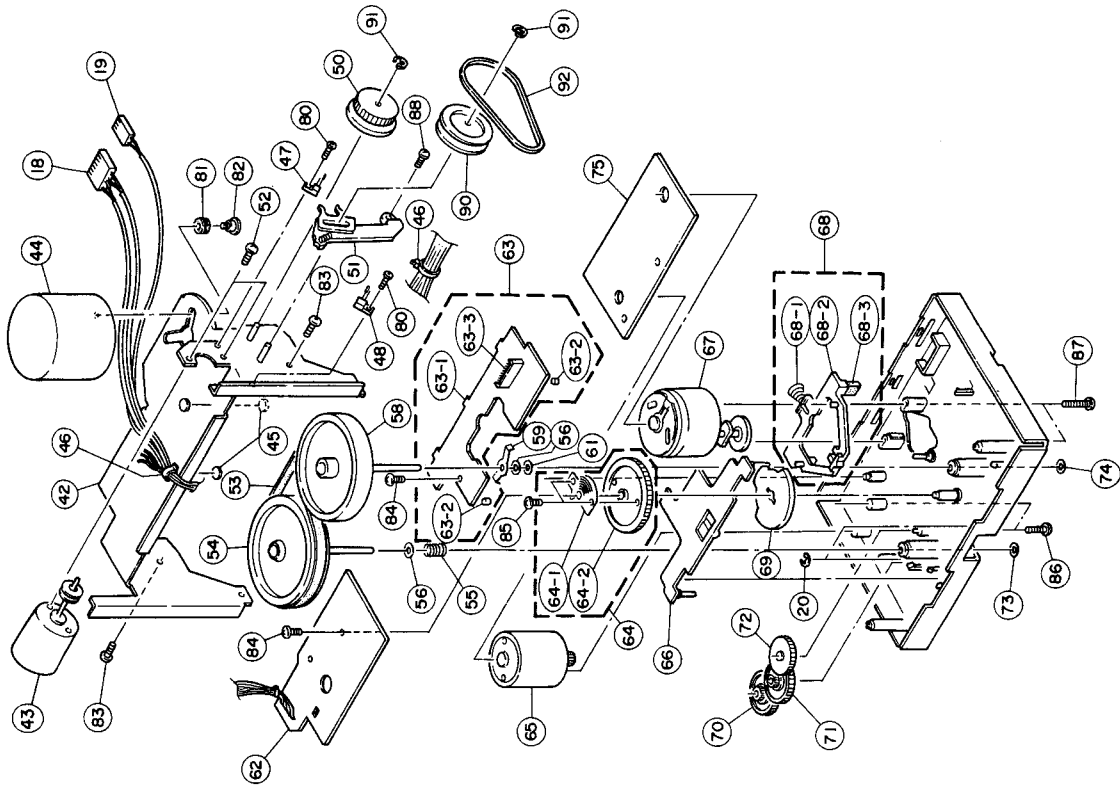
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KX-R700/U

MECHANISM EXPLODED VIEW



## MECHANISM PARTS

Ref. No.	Part No.	Description	部 品 名	Remarks/Markets	Common Model	ランク
※	VF 24 79 00	Cassette Mechanism	SMD1216	カセ ッ ト メ カ	Silver, Black	
※	VF 24 80 00	//	SMD1217	//	Titan	
1	EV 10 10 26	Hexagonal Nut	M2	六 角 ナ ッ ト	PACK	SEE3054801
2	EV 10 02 66	//	M2.6	//	PACK	KGE103613
※	3	CX 60 40 80	Guide Tape	テ ー プ ガ イ ド		KGD103580
※	4	NX 60 22 50	Sensor Ass'y	反 転 セ ン サ ー 組		KGD015545
5	XX 62 32 10	Spring		コ イ ル バ ネ		SIE2405001
6	XX 62 32 00	//		//		SIE2405101
※	7	GX 60 21 50	Head	ヘ ッ ド		SGE6500301
※	8	CX 60 40 90	Head Plate	ヘ ッ ド 板 カ シ メ 組		KGE015302
※	9	AX 60 32 10	Shaft	軸		KGE103517
※	10	AX 60 32 20	Spring	ア ジ マ ス バ ネ		KGE103521
※	11	AX 60 32 30	Head Base Plate	ヘ ッ ド ベ ー ス カ シ メ 組		KGD015292
※	12	AX 60 32 40	Head Spring	HD バ ネ		KGE103518
※	13	CX 60 41 00	Head Gear	HD 歯 車		KGE103515
※	14	AX 60 32 50	Special Washer	切 目 付 ワ ッ シ ャ ー		KGE103583
15	XX 64 03 30	Washer	φ1.8×φ3.8×t0.5	ワ ッ シ ャ ー		SEE1022818
※	16	CX 60 41 10	Gear	反 転 歯 車		KGE103516
※	17	AX 60 32 60	Spring	反 転 バ ネ		KGE103520
※	18	MX 60 07 60	Connector Ass'y	コ ネ ク タ ー 組		SGE6400201
※	19	MX 60 07 70	//	//		SGE6400101
20	EV 50 11 26	E-ring	E1.2	E リ ン グ	PACK	SEE2183602
21	XX 62 37 50	Flat Washer	φ1.8×φ3.2×t0.5	ワ ッ シ ャ ー		SEE1022802
※	22	CX 60 41 20	Release Arm	解 除 ア ー ム		SGD1900201
23	XX 67 43 60	Shaft		軸		K-540 KGE103508
※	24	AX 60 32 70	Spring	ビ ン チ バ ネ		KGE103487
※	25	AX 60 32 80	Washer	φ2.7×φ6×t0.5	ワ ッ シ ャ ー	SEE1022826
26	XX 67 43 90	Spring		戻 し バ ネ		K-540 KGD103512
※	27	NX 60 22 60	Pinch Roller Arm(R)	ビ ン チ ア ー ム 組 (右)		KGE015294
28	XX 67 43 20	Cap,Reel		リ ー ル 爪		K-540 KGD103625
29	XX 67 43 30	Spring		圧 縮 バ ネ		K-540 KGE103842
30	XX 67 43 40	Reel Base		リ ー ル 台 組		K-540 KGE015441
31	XX 67 43 50	Switch Lever		SW レ バ ー 組		K-540 KGE015299
32	XX 64 03 60	Washer	φ2.1×φ4.5×t0.1	ワ ッ シ ャ ー		PBE16032
※	33	NX 60 22 70	Pinch Roller Arm(L)	ビ ン チ ア ー ム 組 (左)		KGE015638
※	34	CX 60 41 30	Lever,Lock	ロ ッ ク レ バ ー 組		KGE015968
※	35	AX 60 32 90	Spring	ビ ン チ バ ネ		KGE103490
36	XX 67 44 10	Spring		ね じ り コ イ ル バ ネ		K-540 KGE103816
37	XX 67 44 20	Shaft		軸		K-540 KGE103509
※	39	CX 60 41 50	Hold plate,Head Bese	ヘ ッ ド ベ ー ス 押 え 板		KGE103526
※	40	AX 60 33 00	Steel Ball	φ1.5	ス チ ー ル ボ ー ル	KGE103595
※	41	NX 60 22 80	Chassis Ass'y	メ カ シ ャ ー シ 組		KGD015762
※	42	AX 60 33 10	Bracket, Motor	モ ー タ ー ブ ラ ケ ッ ト カ シ メ 組		KGD015982
※	43	NX 60 22 90	Motor Ass'y, Eject	イ ジ ェ ク ト モ ー タ ー 組		KGE015981
※	44	NX 60 23 00	Motor Ass'y, Capstan	キャ プ ス タ ン モ ー タ ー 組		KGE015764
45	XX 62 35 30	Holder, Thrust		ス ラ ス ト 受		SIE3300701
46	CB 06 92 51	Binding Tie		結 束 バ ン ド	PACK	KGE103615
※	47	KX 60 11 90	Eject Switch (Up)	イ ジ ェ ク ト SW 上 組		KGE015964
※	48	KX 60 12 00	// (Down)	イ ジ ェ ク ト SW 下 組		KGE015965
※	49	CX 60 41 60	Housing Flame	ハ ウ ジ ン グ フ レ ー ム 組	Silver, Black	KGE015969
※	//	CX 60 41 70	//	//	Titan	KGE015201

※New Parts (新規部品)

KX-R700/U

Ref. No.	Part No.	Description	部 品 名	Remarks/Markets	Common Model	ランク
※ 50	CX 60 41 80	Cam, Loading	ローディングカム組			KGE015970
※ 51	CX 60 41 90	Slider	スライダ組			KGE015971
※ 52	AX 60 33 20	Pan Head Screw	M3×3	ナベ小ネジ		SEE3055409
※ 53	CX 60 42 00	Belt	平ベルト			KGE104140
※ 54	NX 60 23 10	Flywheel	フライホイール			KGE104086
※ 55	XX 67 45 30	Spring	圧縮コイルバネ		K-540	KGE103845
※ 56	XX 69 63 70	Washer	φ2.6×φ9.5×t0.5	ワッシャー		KGE103912
※ 58	NX 60 23 20	Flywheel	フライホイール			KGE104127
※ 59	XX 62 34 00	Spring	スラストバネ			SIE2501901
※ 61	XX 62 37 40	Flat Washer	φ2.6×φ4.7×t0.25	//		SEE1022806
※ 62	NX 60 23 30	Control PCB Ass'y	コントロール基板組			KGDO15961
※ 63	NX 60 23 40	Sensor Switch PCB Ass'y	検知SW基板組			KGDO15962
※ 63-1	NX 60 23 50	Switch Circuit Board	スイッチ基板			KGD104084
※ 63-2	iX 61 21 50	Photo Sensor	フォトセンサー			SEE522402
※ 63-3	LX 60 12 70	Post With Base	ベース付ポスト			KGE104082
※ 64	CX 60 42 30	Gear	接片歯車組			KGE015315
※ 64-1	XX 67 45 90	Contact, Rotary Type	ロータリー接片			SIE3402401
※ 64-2	XX 67 45 80	Gear	接片歯車		K-540	KGD103485
※ 65	XX 67 45 70	Motor Ass'y, Assist	アシストモーター組		K-540	KGE015408
※ 66	CX 60 42 40	Lever, Slide	スライドレバー			KGD103486
※ 67	XX 67 46 00	Motor Ass'y, Reel	リールモーター組		K-540	KGE015469
※ 68	AX 60 33 30	Brake Plate	ブレーキ板組			KGE015298
※ 68-1	XX 67 46 50	Spring	円錐バネ		K-540	KGE103605
※ 68-2	XX 67 46 60	Plate, Brake	ブレーキ板		K-540	KGD103500
※ 68-3	XX 62 32 70	Rubber, Brake	ブレーキゴム			SIE1800401
※ 69	XX 67 46 10	Cam	カム		K-540	KGD103484
※ 70	XX 67 46 20	Gear	歯車		K-540	KGE103529
※ 71	XX 67 46 30	//	//		K-540	KGE103582
※ 72	XX 67 46 40	//	//		K-540	KGE103528
※ 73	XX 62 34 80	Washer	φ2.5×φ7×t0.8	座金		SEE1023001
※ 74	XX 64 07 80	//	φ2.2×φ7×t0.8	//		KGE103473
※ 75	NX 60 23 60	Motor Circuit Board	モーター基板組			KGE015973
※ 77	AX 60 33 60	Pan Head Screw	M1.4×6	ナベ小ネジ		SGE3121001
※ 78	XX 62 32 30	Screw		アジマスネジ		SEE3058701
※ 79	XX 62 36 40	Pan Head Screw	M2.5×8	FTナベ小ネジ		SEE3053502
※ 80	AX 60 33 70	//	M2×4	ナベ小ネジ		14254
※ 81	XX 64 11 20	Rubber, Washer	φ8	ゴム座		PBE13360
※ 82	XX 64 11 30	Screw		モーター止メネジ		PBE16156
※ 83	AX 60 33 80	Special Screw	M2.5×4	FTナベ小ネジ		SEE3053507
※ 84	XX 67 47 10	//	M2×4.5	タッピングネジ	K-540	KGE103483
※ 85	XX 67 47 20	//	M2×3	ナベ小ネジ	K-540	SEE3052201
※ 86	XX 67 47 30	//	M2×12	ナベバインドネジ	K-540	SEE3053806
※ 87	AX 60 33 90	Pan Head Screw	M2.6×15	ナベ小ネジ		KGE103594
※ 88	AX 60 34 00	Special Screw	2.6×6	トラスタップタイトネジ		SEE3063701
※ 89	XX 67 46 90	//	2.6×12	ナベSタイトネジ	K-540	KGE103865
※ 90	BX 60 10 10	Pully-D	プーリーD			SGE1500201
※ 91	AX 60 33 40	E-ring	φ2.0	Eリング		22145
※ 92	CX 60 42 50	Belt	ベルト			SGE1800401
※ 93	XX 67 44 90	Dumper Unit	ダンパーユニット		K-540	SIE9903001
※ 94	BX 60 10 20	Blind Plate Ass'y	ブラインドプレート組	Silver, Black		KGE015972
※ 94	BX 60 10 30	Blind Plate Ass'y	ブラインドプレート組	Titan		KGE015984

※New Parts (新規部品)



A

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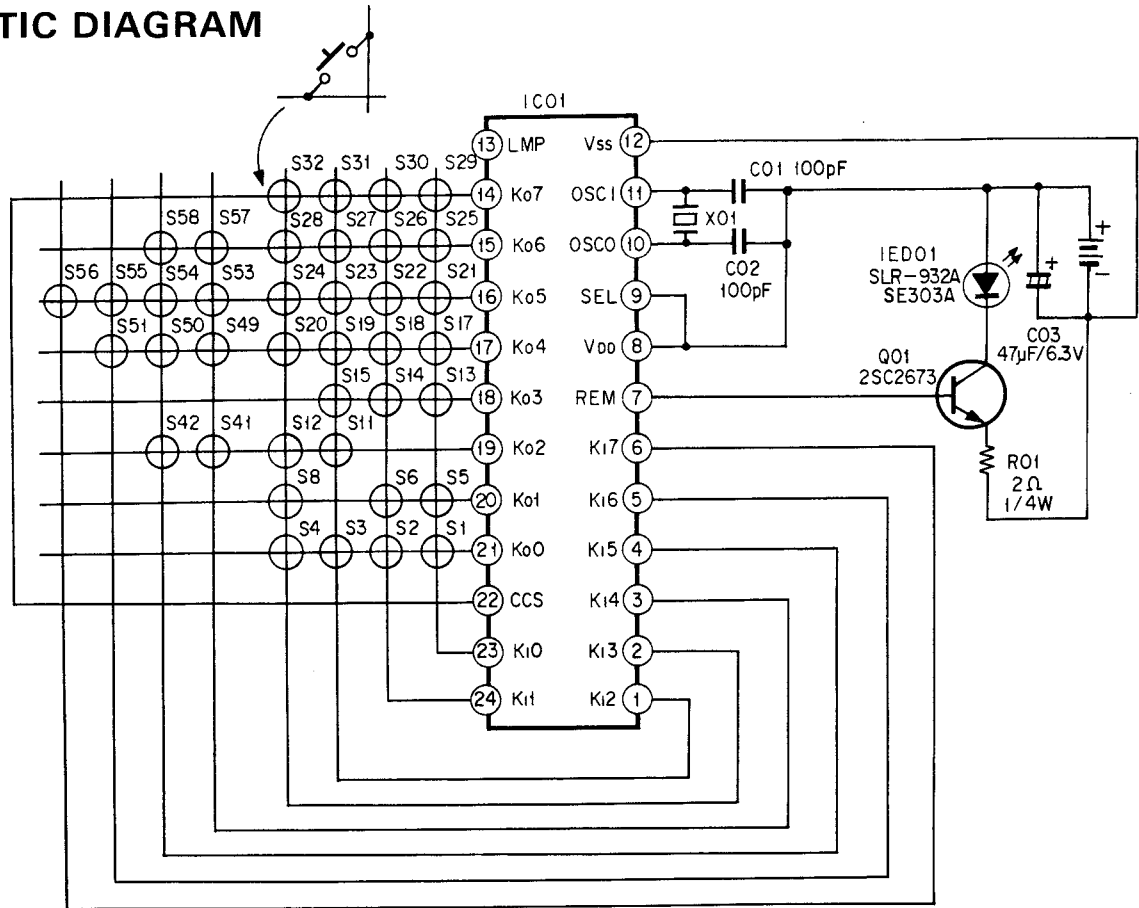
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KX-R700/U

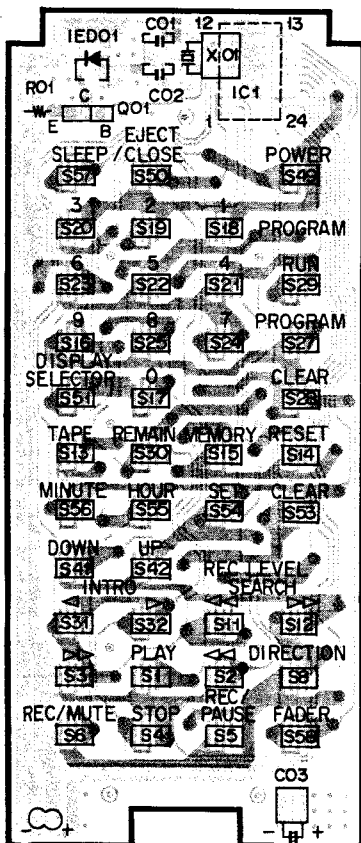
RS-KR7

REMOTE CONTROL TRANSMITTER

### ■ SCHEMATIC DIAGRAM



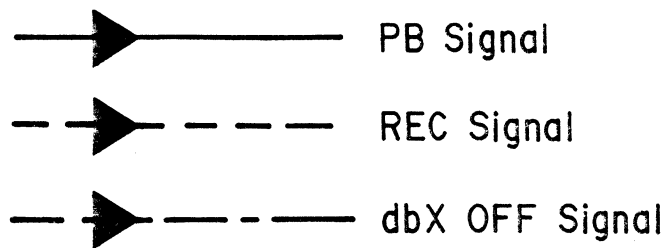
### ■ PRINTED CIRCUIT BOARD (Pattern Side)



Key No.	Function	Data code	Key No.	Function	Data code
S1	PLAY	00	S25	PROGRAM 8	18
S2	◀◀	01	S26	PROGRAM 9	19
S3	▶▶	02	S27	PROGRAM	1A
S4	STOP	03	S28	PROGRAM CLEAR	1B
S5	REC/PAUSE	04	S29	PROGRAM RUN	1C
S6	REC MUTE	05	S30	REMAIN	1D
S8	DIRECTION	07	S31	INTRO ▶	1E
S11	SEARCH ▶▶	0A	S32	INTRO ◀	1F
S12	SEARCH ◀◀	0B	S41	UP	48
S13	TAPE	0C	S42	DOWN	49
S14	RESET	0D	S49	POWER	50
S15	MEMORY	0E	S50	EJECT/CLOSE	51
S17	PROGRAM 0	10	S51	DISPLAY	52
S18	PROGRAM 1	11	S53	CLEAR	54
S19	PROGRAM 2	12	S54	SET	55
S20	PROGRAM 3	13	S55	HOUR	56
S21	PROGRAM 4	14	S56	MINUTE	57
S22	PROGRAM 5	15	S57	SLEEP	58
S23	PROGRAM 6	16	S58	FADER	59
S24	PROGRAM 7	17			

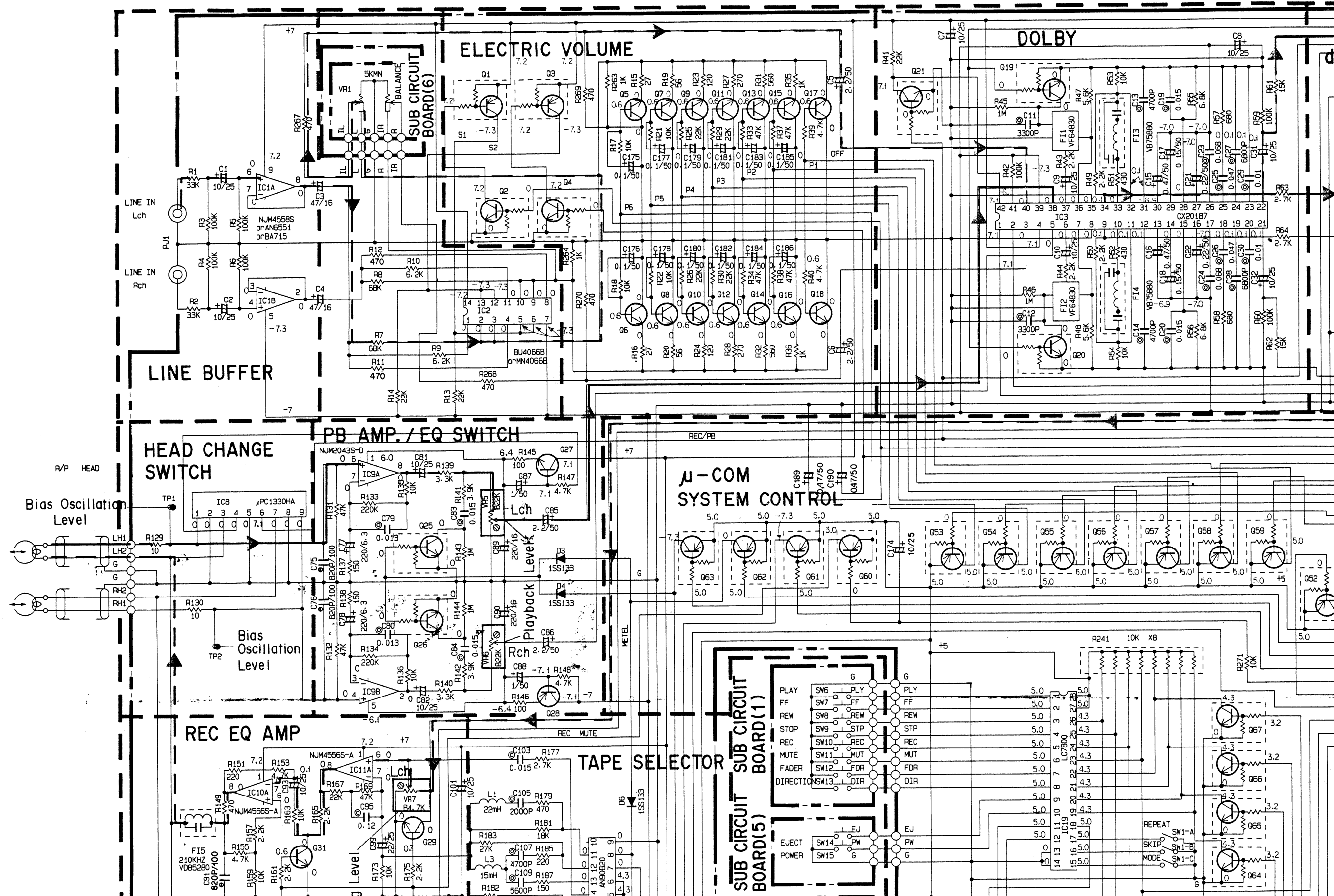
CUSTOM CODE	7F
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■ SCHEMATIC DIAGRAM



color	titan	silver .black
*1 V1	VF29740	VF11300
*2 JK2	VC25790	LB30176
*3 D33	VF29750	VF07020
*4 R234-R240	120Ω	220Ω
*5 R233	120Ω	180Ω

	J	U.C	R,P	A.B.G	
*11	F1.2	T1.0A250V	1.0A250V	T1.0A250V	T800mA250V
*12	F3	T5A250V	5A250V	T5A250V	T2.0A250V
*14	C74	VA89130 or VA98550	FI41410 or FI51410 or VA89080		



1

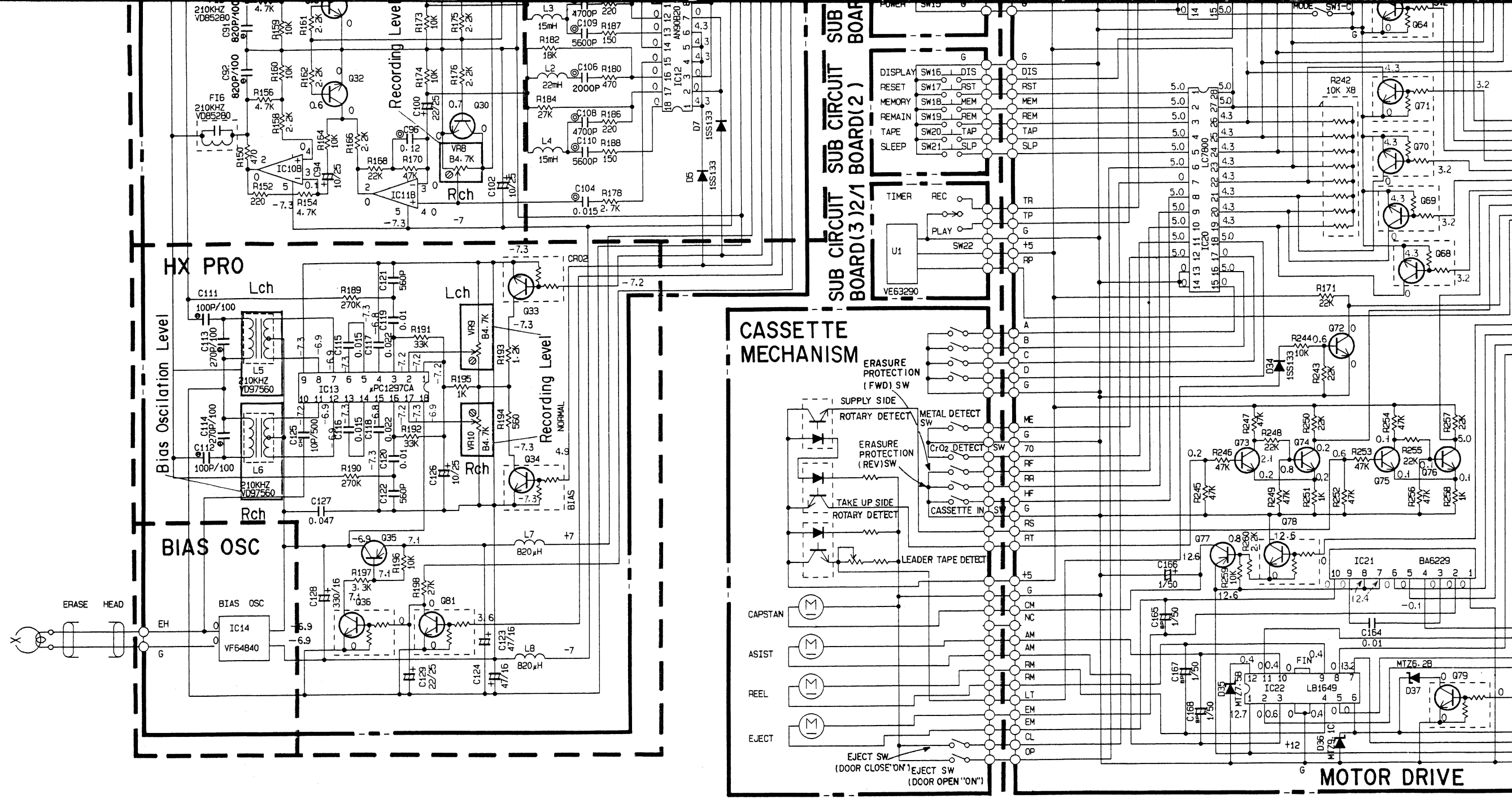
2

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6



2SC3312 (R, S, T)	2SB786	DTA114ES	1SS133	MTZ5.1B	NJM78M05A	AN6551	MN4066B	LB1649	BA6229	μPC1330HA	μPC1297CA	AN6294NK
2SD655 (E, F)	2SD947	DTC114ES	1SR35-100A	MTZ30B		NJM4558S	BU4066B				AN90B20	
2SD1302 (R, S)	2SD400		MTZ5.6A			BA715	BA618					
2SD1468 (Q, R, S)	2SC2060		MTZ3.6A			NJM4556S-A						
2SC2603 (E, F)	2SA934		MTZ6.2B			NJM2043S-D						
2SC1740S (S, R)	2SB544		MTZ7.5B									
2SA1115 (E, F)			MTZ9.1C									
2SA933S (Q, R)			MTZ4.3B									
2SA1310 (R, S, T)												

6  
7  
8  
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22

70a



er. black  
11300  
930176  
07020  
204  
180Ω

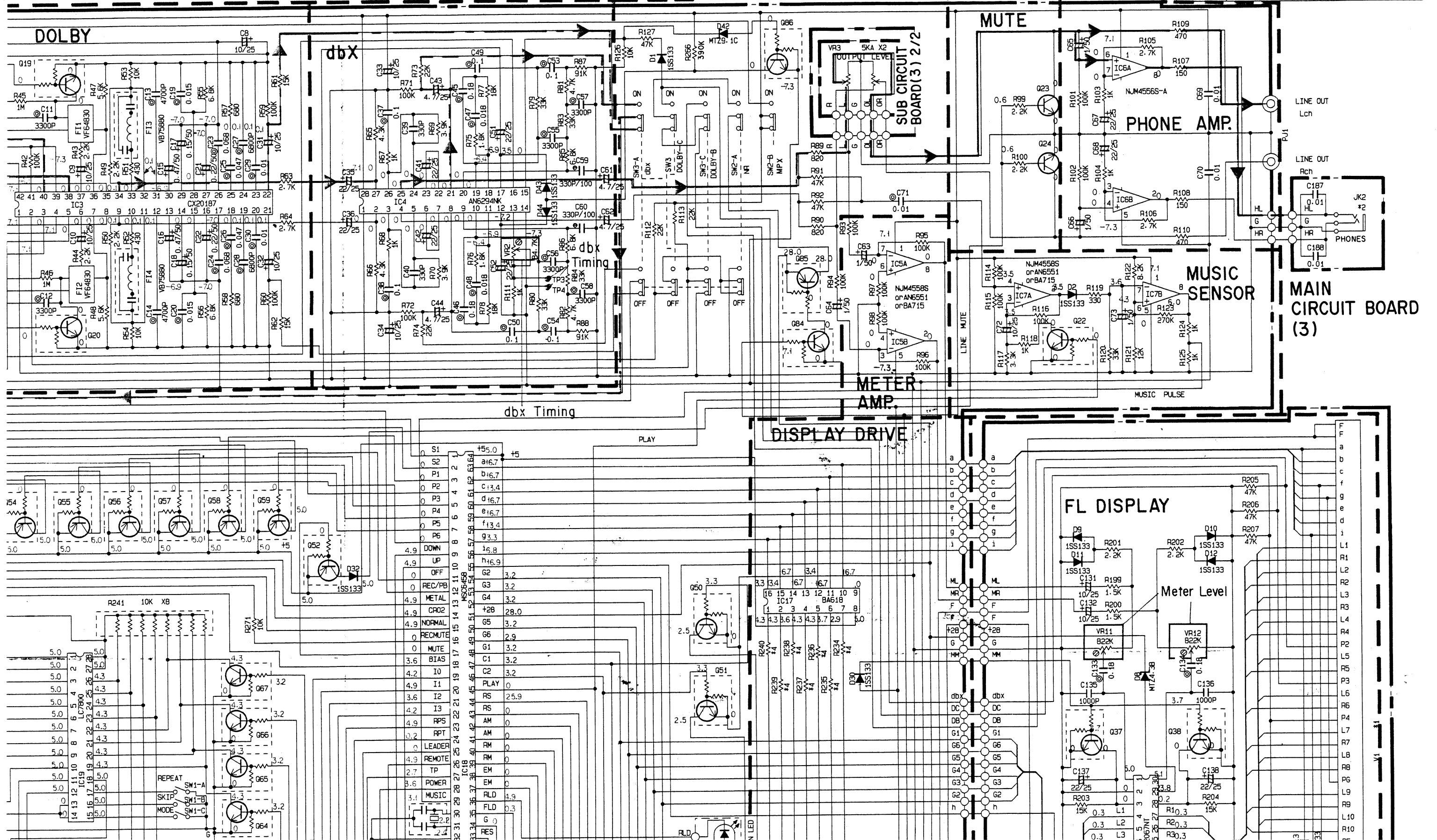
	J	U.C	R, P	A. B. G
*11	F1.2	T1.0A250V	1.0A250V	T1.0A250V
*12	F3	T5A250V	5A250V	T5A250V
*14	C74	VA89130 or VA98550	FI14140 or FI151410 or VA89080	

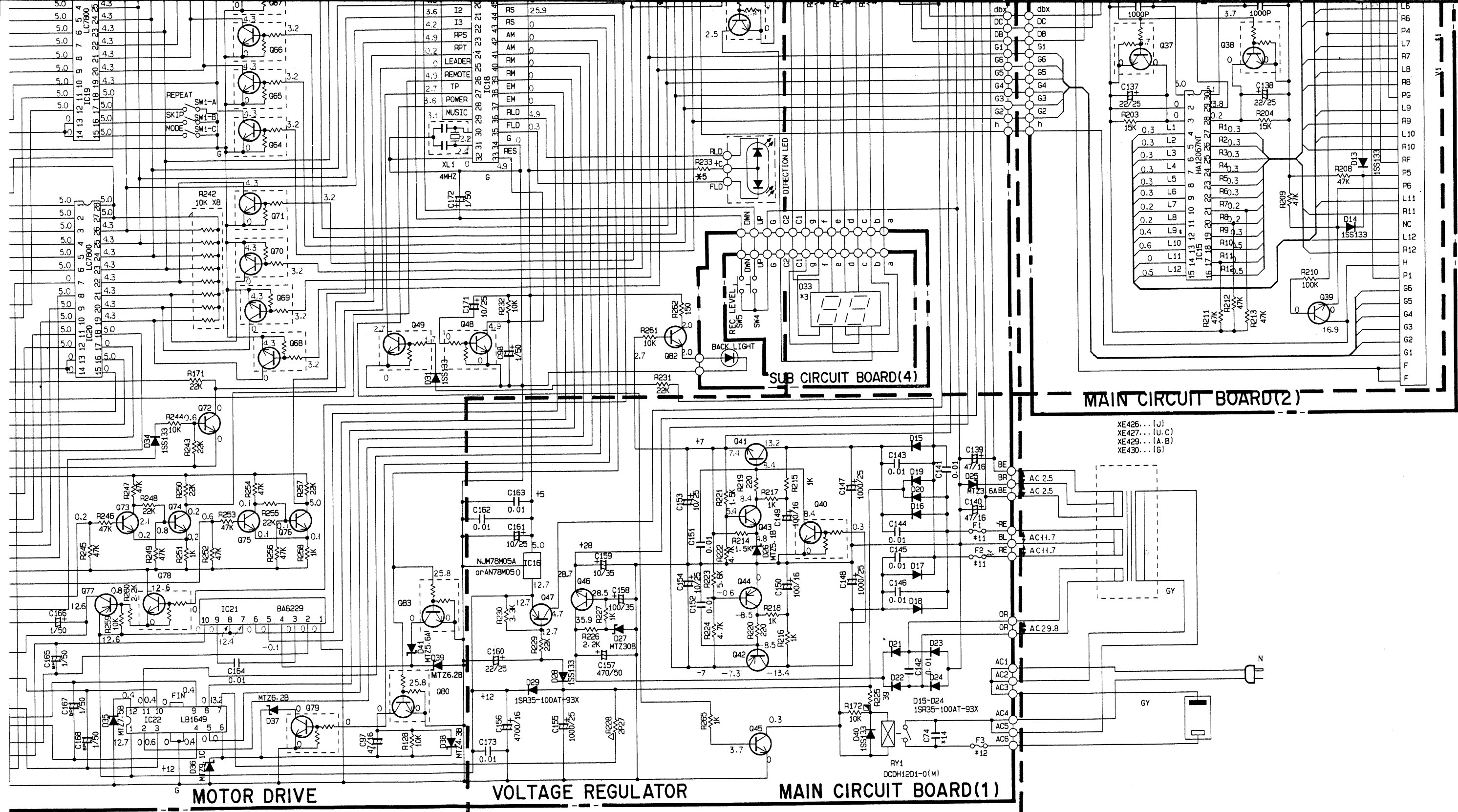
Q45. 46	2SD400 or 2SC2060
Q35. 77	2SA934 or 2SB544
Q28. 44. 47	2SA1115(E. F) or 2SA933S(G. R) or 2SA1310(R. S. T)
Q27. 39. 43. 72-76. 82	2SC2603(E. F) or 2SC1740S(S. R) or 2SC3312(R. S. T)
Q5-18. 23. 24. 29-32	2SD655(E. F) or 2SD1302(R. S) or 2SD146B(G. R. S)
Q1. 3. 52-63. 85	DTA114ES
Q2. 4. 19-22. 25. 26. 33. 34	
Q36-38. 40. 48-51	DTC114ES
Q64-71. 78-81. 83. 84. 86	
Q42	2SB786
Q41	2SD947

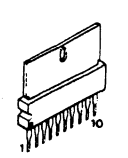
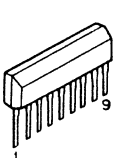
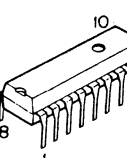
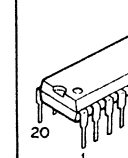
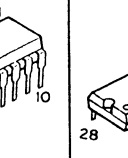
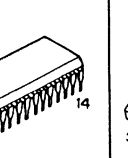
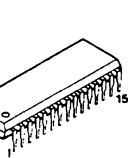
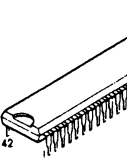
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⊕
NO MARK	CERAMIC CAPACITOR	⊖
⊙	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
⊖	MICA CAPACITOR	
⊕	POLYPROPYLENE FILM CAPACITOR	
●	SEMICONDUCTIVE CERAMIC CAPACITOR	

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

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
⊠	CARBON FILM RESISTOR
△	METAL OXIDE FILM RESISTOR
⊞	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
⊞	FIRE PROOF CARBON FILM RESISTOR
⊞	SEMANT MOLDED RESISTOR
⊞	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR





<b>BA6229</b> 	<b>μPC1330HA</b> 	<b>μPC1297CA AN90B20</b> 	<b>AN6294NK</b> 	<b>LC7800</b> 	<b>HA12067NT</b> 	<b>CX20187</b> 	<b>MSC6458</b> 
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**CAUTION**

- Components having special characteristics are marked  $\Delta$  and must be replaced with parts having specifications equal to those originally installed.
- \* All voltages are measured with a 10M $\Omega$ /V DC electric volt meter.
- \* Schematic diagram is subject to change without notice.

A

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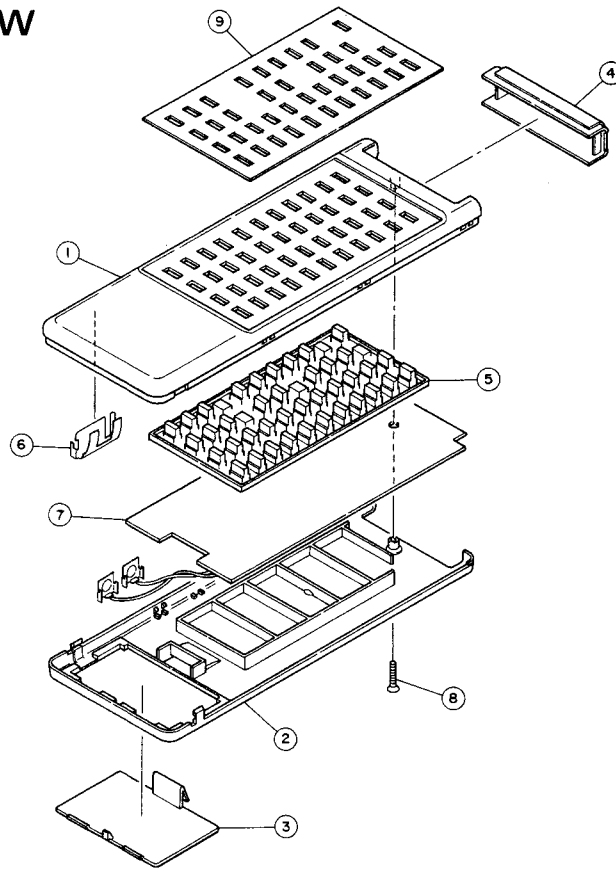
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KX-R700/U

# EXPLODED VIEW



Ref. No.	Part No.	Description	部 品 名	Remarks/Markets	Common Model	ランク
※	VF : 32 : 86 : 00	Remote Control Transmitter	リモートコントロールトランスミッター	Black		
※	VF : 32 : 87 : 00	//	//	Titan	J	
※	VF : 32 : 88 : 00	//	//	Silver	U.C,R,A,B,G	
4	1	CX : 60 : 42 : 60	Cace(A)	ケ ー ス ( A )	Black	
※	//	CX : 60 : 42 : 70	//	//	Titan	J
※	//	CX : 60 : 42 : 80	//	//	Silver	U.C,R,A,B,G
	2	XX : 67 : 77 : 20	Cace(B)	ケ ー ス ( B )	Black	
	//	CX : 60 : 38 : 90	//	//	Titan	J
	//	CX : 60 : 06 : 00	//	//	Silver	U.C,R,A,B,G
	3	XX : 67 : 16 : 30	Battery Cover	電 池 カ バ ー	Black	
※	//	CX : 60 : 39 : 00	//	//	Titan	J
5	//	XX : 67 : 17 : 20	//	//	Silver	U.C,R,A,B,G
	4	XX : 67 : 16 : 40	Filter	ス モ ー ク 板		
※	5	CX : 60 : 42 : 90	Rubber	ゴ ム 接 点	Black	
※	//	CX : 60 : 43 : 00	//	//	Silver	
※	//	CX : 60 : 43 : 10	//	//	Titan	
	6	XX : 67 : 16 : 80	Battery Terminal(A)	電 池 電 極 板 ( A )		
※	7	NX : 60 : 23 : 70	P.C Board Ass'y	プ リ ン ト 基 板		
	8	XX : 67 : 16 : 60	Flat Head Screw	皿 小 ネ ジ	Black	
	//	XX : 67 : 17 : 50	//	//	Silver	
6	※	NX : 60 : 23 : 70	P.C Board Ass'y	プ リ ン ト 基 板		
		iX : 61 : 21 : 10	IC	μPD6122G-502	I C IC01	
		QX : 60 : 00 : 20	Ceramic Resonator	CSB455EB	セ ラ ミ ッ ク 振 動 子	X01
		FG : 21 : 21 : 00	Ceramic Cap	100pF 50V	セ ラ コ ン	C01,02
		UJ : 11 : 74 : 70	Electrolitic Cap	47μF 6.3V	ケ ミ コ ン	C03
		iC : 26 : 73 : 00	Transistor	2SC2673	ト ラ ン ジ ス タ ー	Q01
		HX : 60 : 14 : 00	Carbon Film Resistor	2Ω 1/4W	カー ボ ン 抵 抗	R01
		iX : 60 : 36 : 00	LED	SLR-932A	L E D	LED01
7		XX : 67 : 16 : 90	Battery Terminal(B)	電 池 電 極 板 ( B )		

※ New Parts (新規部品)

# Parts List for Carbon Resistor

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	HF85 3100	12K Ω	HJ357120	HF85 7120
1.8 "	HJ353180	※	15 "	HJ357150	HF85 7150
2.2 "	HJ353220	HF853220	18 "	HJ357180	HF85 7180
3.3 "	HJ353330	HF853330	22 "	HJ357220	HF85 7220
4.7 "	HJ353470	HF853470	27 "	HJ357270	HF85 7270
5.6 "	HJ353560	HF853560	33 "	HJ357330	HF85 7330
10 "	HJ354100	HF854100	39 "	HJ357390	HF85 7390
15 "	HJ354150	HF854150	47 "	HJ357470	HF85 7470
22 "	HJ354220	HF854220	56 "	HJ357560	HF85 7560
27 "	HJ354270	HF854270	68 "	HJ357680	HF85 7680
33 "	HJ354330	HF854330	82 "	HJ357820	HF85 7820
39 "	HJ354390	HF854390	91 "	HJ357910	HF85 7910
47 "	HJ354470	HF854470	100 "	HJ358100	HF85 8100
56 "	HJ354560	HF854560	120 "	HJ358120	HF85 8120
68 "	HJ354680	HF854680	150 "	HJ358150	HF85 8150
82 "	HJ354820	HF854820	180 "	HJ358180	HF85 8180
100 "	HJ355100	HF85 5100	220 "	HJ358220	HF85 8220
110 "	HJ355110	HF85 5110	270 "	HJ358270	HF85 8270
120 "	HJ355120	HF85 5120	330 "	HJ358330	HF85 8330
150 "	HJ355150	HF85 5150	390 "	HJ358390	HF85 8390
160 "	HJ355160	※	470 "	HJ358470	HF85 8470
180 "	HJ355180	HF85 5180	560 "	HJ358560	HF85 8560
220 "	HJ355220	HF85 5220	680 "	HJ358680	HF85 8680
270 "	HJ355270	HF85 5270	820 "	HJ358820	HF85 8820
330 "	HJ355330	HF85 5330	1.0M Ω	HJ359100	HF85 9100
390 "	HJ355390	HF85 5390	1.2 "	HJ359120	※
470 "	HJ355470	HF85 5470	1.5 "	HJ359150	HF85 9150
510 "	※	HF85 5510	1.8 "	HJ359180	HF85 9180
560 "	HJ355560	HF85 5560	2.2 "	HJ359220	HF85 9220
680 "	HJ355680	HF85 5680	3.3 "	HJ359330	HF85 9330
820 "	HJ355820	HF85 5820	3.9 "	HJ359390	※
910 "	HJ355910	HF85 5910	4.7 "	HJ359470	HF85 9470
1.0K Ω	HJ356100	HF85 6100			
1.2 "	HJ356120	HF85 6120			
1.5 "	HJ356150	HF85 6150			
1.8 "	HJ356180	HF85 6180			
2.0 "	HJ356200	HF85 6200			
2.2 "	HJ356220	HF85 6220			
2.4 "	HJ356240	HF85 6240			
2.7 "	HJ356270	HF85 6270			
3.0 "	HJ356300	HF85 6300			
3.3 "	HJ356330	HF85 6330			
3.6 "	HJ356360	HF85 6360			
3.9 "	HJ356390	HF85 6390			
4.7 "	HJ356470	HF85 6470			
5.1 "	HJ356510	HF85 6510			
5.6 "	HJ356560	HF85 6560			
6.8 "	HJ356680	HF85 6680			
8.2 "	HJ356820	HF85 6820			
9.1 "	HJ356910	HF85 6910			
10 "	HJ357100	HF85 7100			

