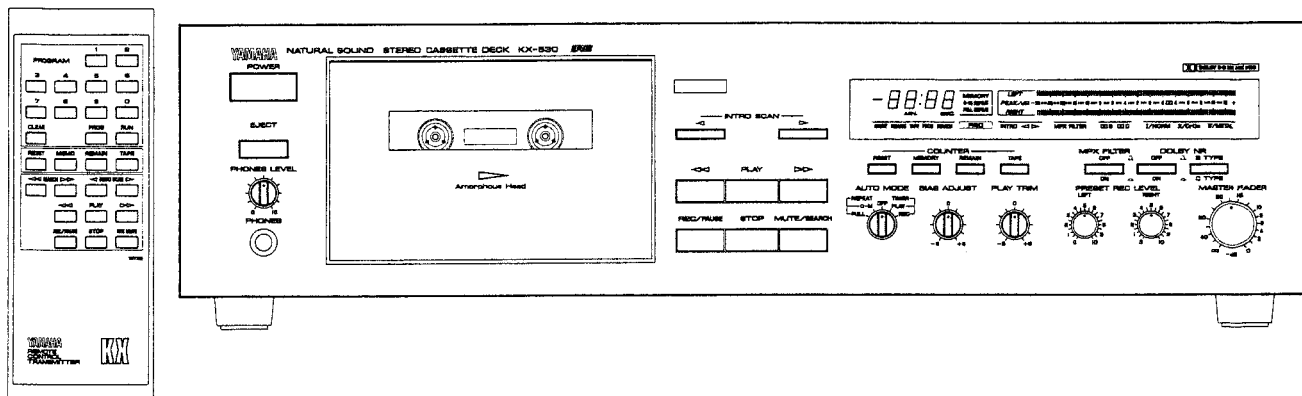


STEREO CASSETTE DECK

KX-530

SERVICE MANUAL

KX-530



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 PERSONEL	1
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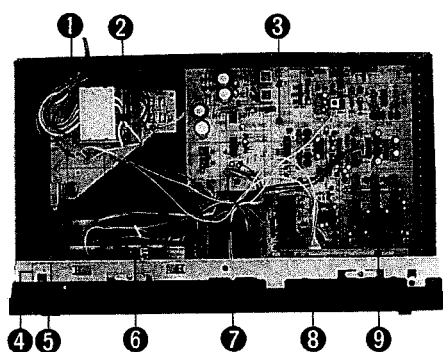
100344

YAMAHA

YAMAHA CORPORATION HAMAMATSU, JAPAN

3.2K-732 © Printed in Japan '90. 3

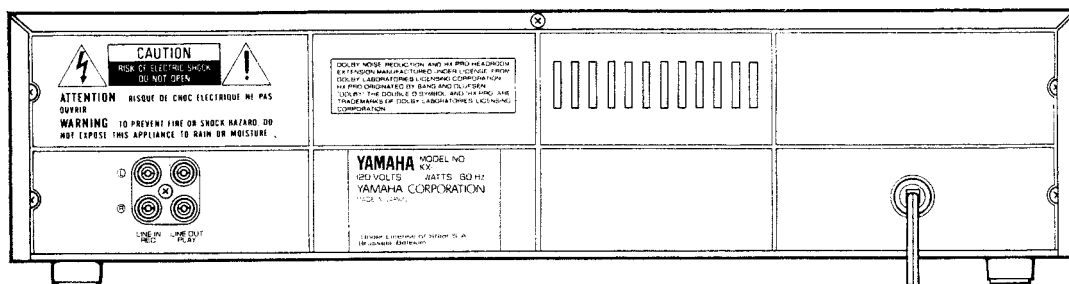
INTERNAL VIEW



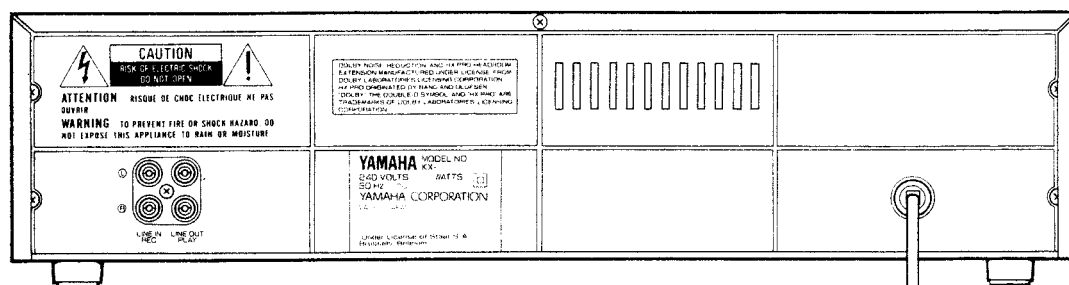
- ① VOLTAGE SELECTOR (R, P models only)
- ② POWER TRANSFORMER UNIT
- ③ MAIN CIRCUIT BOARD (1)
- ④ MAIN CIRCUIT BOARD (4)
- ⑤ MAIN CIRCUIT BOARD (5)
- ⑥ CASSETTE MECHANISM UNIT
- ⑦ MAIN CIRCUIT BOARD (2)
- ⑧ MAIN CIRCUIT BOARD (3)
- ⑨ LCD CIRCUIT BOARD

REAR PANELS

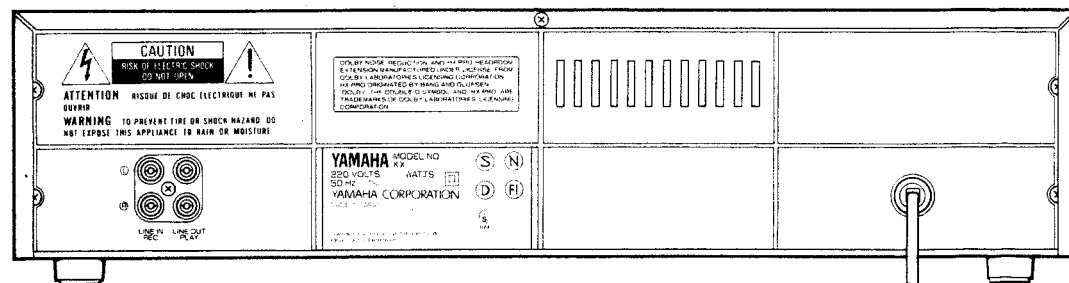
U.C. models



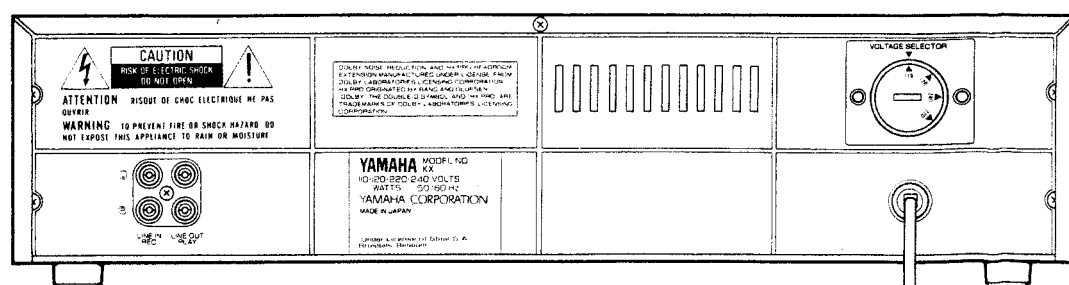
A, B models



G model



R, P models



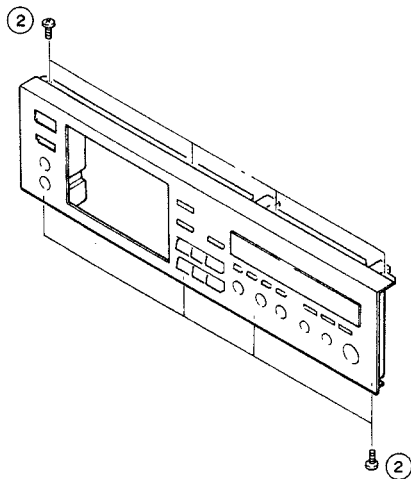
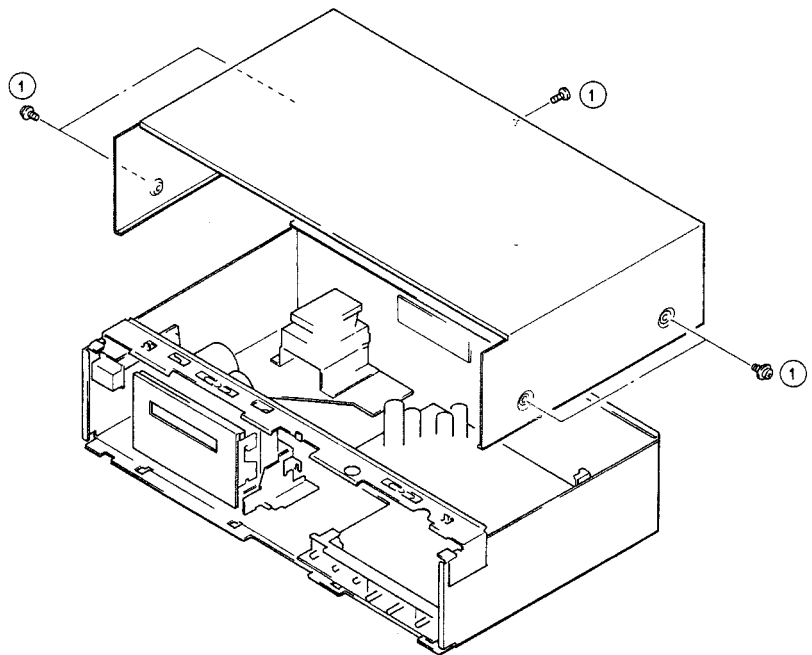
■ DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered)

● Removal of Cabinet Parts

1. Removal of Top Cover

- a. Remove 5 screws(①) in fig. 1.

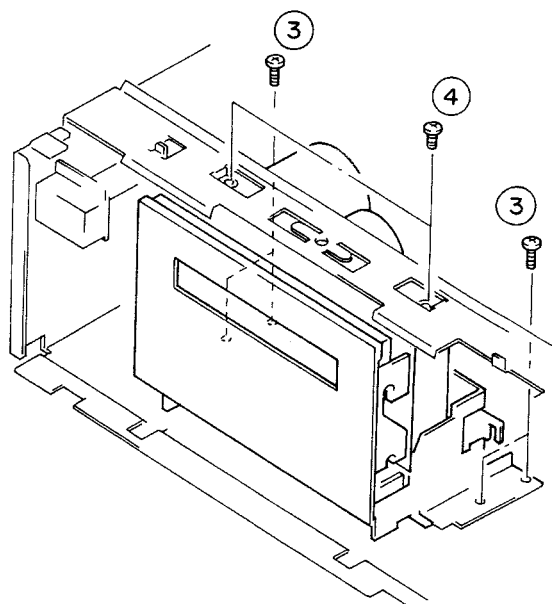


2. Removal of Front Panel

- a. Remove 8 screws(②) in fig. 2.
b. Remove connectors in 6 places (#5, 6, 7 10, LCD, LAMP).

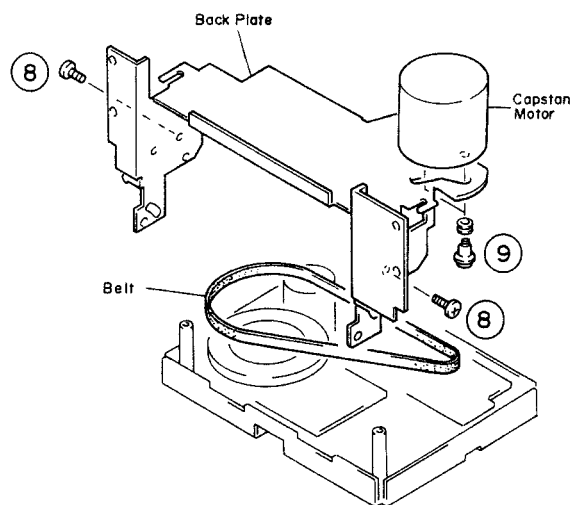
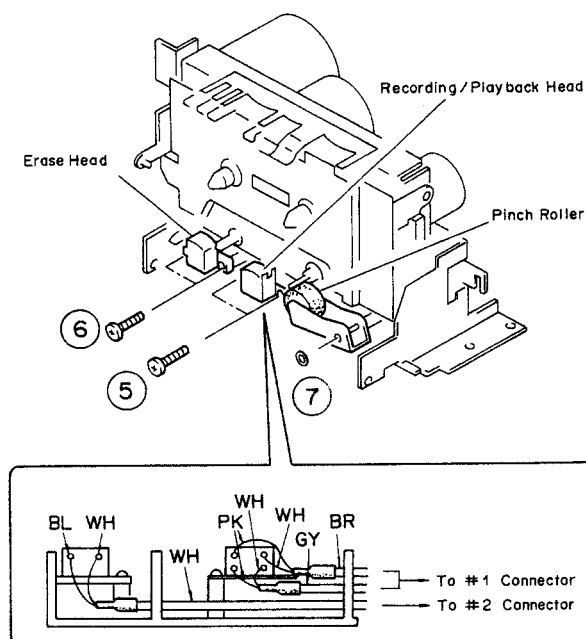
3. Removal of Cassette Mechanism Unit

- a. Remove 4 screws(③) and 2 screws (④) in fig. 3.
b. Remove the cassette mechanism unit after sliding it toward the back.



4. Removal of Heads and Pinch Roller

- Remove 2 screws (⑤) in fig. 4 and then remove the Recording/Playback Head.
- Remove 2 screws (⑥) in fig. 4 and then remove the Erase Head.
- Detach the hook (⑦) in fig. 4 and then remove the Pinch Roller.



5. Removal of Capstan Motor and Belt

- Remove 2 screws (⑧) in fig. 5 and then remove the back plate.
- Remove 2 screws (⑨) in fig. 5 and then remove the Capstan Motor.

■ ADJUSTMENTS

1. Before Adjustment:

- Make sure that AC line voltage is within:

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

- Since head magnetization, dust accumulation, etc. are likely to cause error in the various characteristics, it is very important to keep the heads properly demagnetized and clean.

2. Instruments required

- Audio frequency oscillator (AF OSC)
 - ACVM or dual channel ACVM
 - Wow/flutter meter
 - Torque meter
- TW-2111 (TX911580) TW-2412 (TX911640)
 TW-2121 (TX911570) TW-2422 (TX911630)
 CT160L (TX911120)

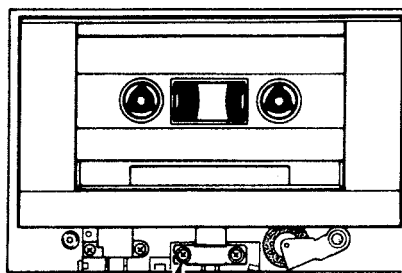
- DCVM
- Mirror Cassette
MC-109C (TX911430)

3. Test tape required

- MTT-111N (TX911650): Tape Speed (Normal)
- MTT-114N (TX911680): Azimuth
- MTT-212CN (TX911670): Playback Level (160 nWb/m)
- MTT-256 (TX911300): Playback Frequency Response (LH)
- MTT-356 (TX911310): Playback Frequency Response (CrO₂)
- Reference tape
 - Normal (LN) : TDK AC223 (TX911600)
 - CrO₂ : TDK SA-60 or TDK AC513 (TX911610)
 - METAL : TDK AC712 (TX911590)

● MECHANISM ADJUSTMENT

Step	Item to be Adjusted	Tape	Instrument required	Mode	Adjustment part	Rating	Remarks
1	Check each torque		Torque meter			Take-up torque: 35 g·cm~55g·cm FF, REW torque: more than 70g·cm Back tension: 2g·cm~5g·cm	
2	Check FF REW take up times	AC-223 C-60				Less than 85 seconds	
3	Check tape movement		Mirror cassette (MC-109C)	PLAY		Tape should be advanced in the center of head smoothly.	
4	Azimuth	MTT-114N 10 kHz, -10 dB	ACVM Oscilloscope	PLAY	Azimuth adjustment screw. (Fig. A)	Playback output manual output is maximum and phase difference should be minimum.	After the adjustment make sure to apply screw lock paint.
5	Tape speed	MTT-111N 3 kHz, -10 dB	Wow/flutter meter or Frequency counter	PLAY	Potential meter at the back of the capstan motor. (Fig. B)	3000 Hz $\pm$ 10 Hz	• Perform adjustment at the position where the test tape is advanced/rewound to the middle if possible.
6	Wow/flutter	MTT-111N 3 kHz, -10 dB	Wow/flutter meter	PLAY		Less than 0.06% (JIS W. RAMS)	



Azimuth adjustment screw

Fig. A

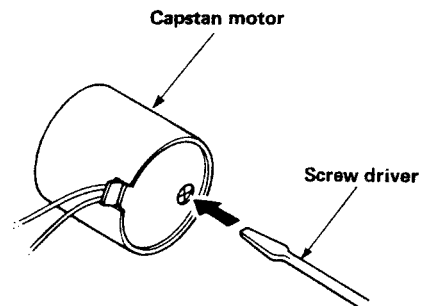


Fig. B

● ELECTRIC ADJUSTMENT

* Standard level of this machine is 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 (160 nwb/m)	ACVM	PLAY	VR8 (Lch) VR9 (Rch)	LINE OUT	When MTT-212CN played back, adjust VR so that Terminal Voltage becomes Specification Value.	360 mV $\pm$ 25 mV
2	Confirmation of Playback Frequency Response	MTT-256 (LH: 3180 μ s + 120 μ s) MTT-356 (CrO ₂ : 3180 μ s + 70 μ s)	ACVM Oscilloscope	PLAY		LINE OUT	Make sure that level of LINE OUT is within the specification of Fig. C when Test Tape is played back.	0 dB $\begin{smallmatrix} +4 \\ -3 \end{smallmatrix}$ dB

● PLAYBACK FREQUENCY RESPONSE

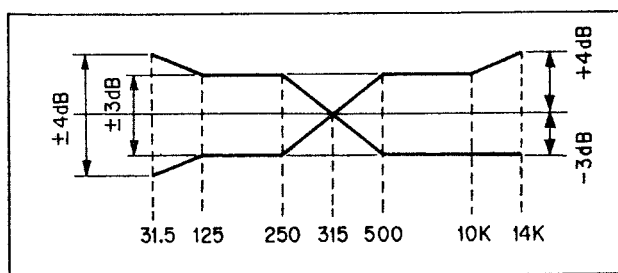
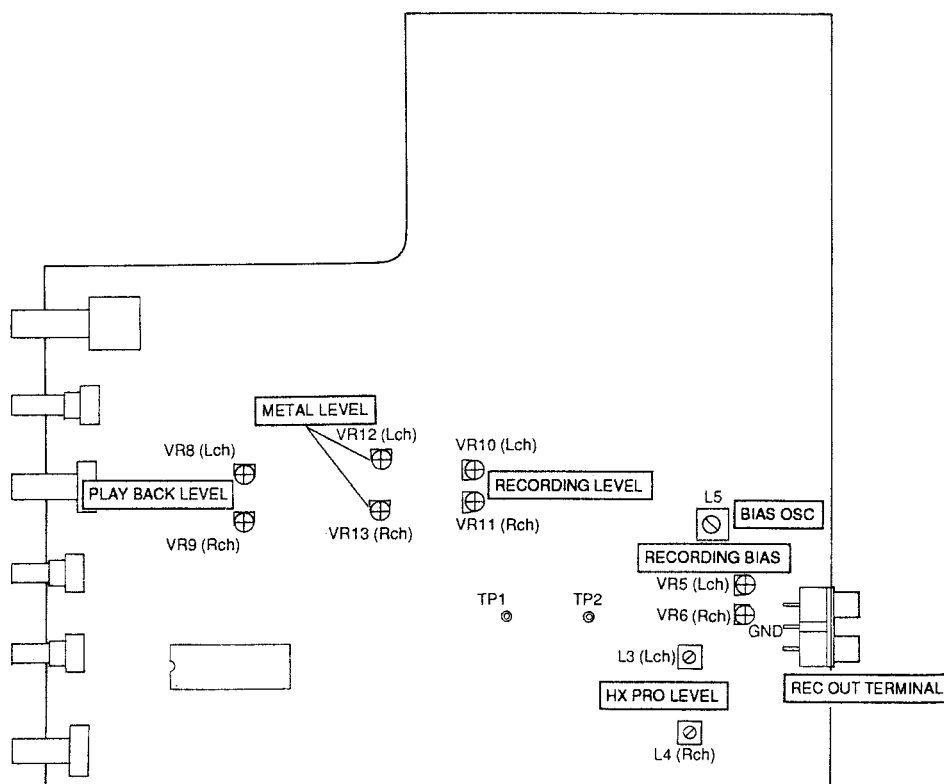


Fig. C

● TEST POINT



● RECORDING ADJUSTMENT (BIAS ADJ. → VR Center, if not specified otherwise)

Step	Adjustment Items	Test Tape	Instrument Required	Mode	Adjustment Terms Point	Measurement Point	Adjustment	Rating
1	Meter Level	LH	ACVM Audio Frequency Oscillator	REC/PAUSE	1. Set REC LEVEL to maximum. 2. Input 315 Hz Signal to LINE IN TERMINAL from Audio Frequency Oscillator. Adjust output level of Audio Frequency Oscillator so that the voltage of LINE OUT TERMINAL becomes 360 mV.	Peak Level Meter	VR12 (Lch) VR13 (Rch)	Adjust VR to the minimum level where 0 dB segment (red) of peak level meter lights up.
2	Bias Oscillation Level (HX PRO)	METAL	ACVM	REC PLAY	1. Set VR5 and VR6 to minimum. 2. BIAS ADJ. VR → Maximum.	TP1-GND TP2-GND	L3 (Lch) L4 (Rch)	Connect ACVM between each TP-GND and adjust L3 and L4 to maximum.
3	Recording Level	LH	ACVM Audio Frequency Oscillator	REC PLAY and PLAY-BACK	1. Set VR3 and VR4 to the center position. 2. Enter REC/PAUSE mode. 3. Input 315 Hz Signal to LINE IN TERMINAL from Audio Frequency Oscillator. Adjust REC LEVEL knob so that voltage of LINE OUT TERMINAL becomes 360 mV (0 dB). 4. Record the above-mentioned signal. 5. Playback the recorded tape.	LINE OUT TERMINAL	VR10 (Lch) VR11 (Rch)	Adjust VR, so that voltage of LINE OUT TERMINAL becomes 360 mV ± 25 mV.
4	Recording Bias	LH CrO ₂ and METAL	ACVM Audio Frequency Oscillator	REC PLAY and PLAY-BACK	1. Set REC LEVEL to maximum. 2. Enter REC/PAUSE mode. 3. Input several frequency signals to LINE IN TERMINAL from Audio Frequency Oscillator. Adjust the level of LINE OUT TERMINAL so that the voltage becomes 36 mV (-20 dB). 4. Record the above-mentioned signal. 5. Playback the recorded tape.	LINE OUT TERMINAL	VR5 (Lch) VR6 (Rch)	Adjust VR so that the voltage of LINE OUT TERMINAL satisfies Fig. D when a tape, recorded at 36 mV at each frequency, is played back.

● LCD TEST

To test all the LCD, press the POWER button while pressing the RESET key. All the LCD lights. The peak hold OFF mode is entered when the RESET key is pressed after the LCD test. The unit returns to normal mode when the RESET key is pressed again.

● TOTAL FREQUENCY RESPONSE

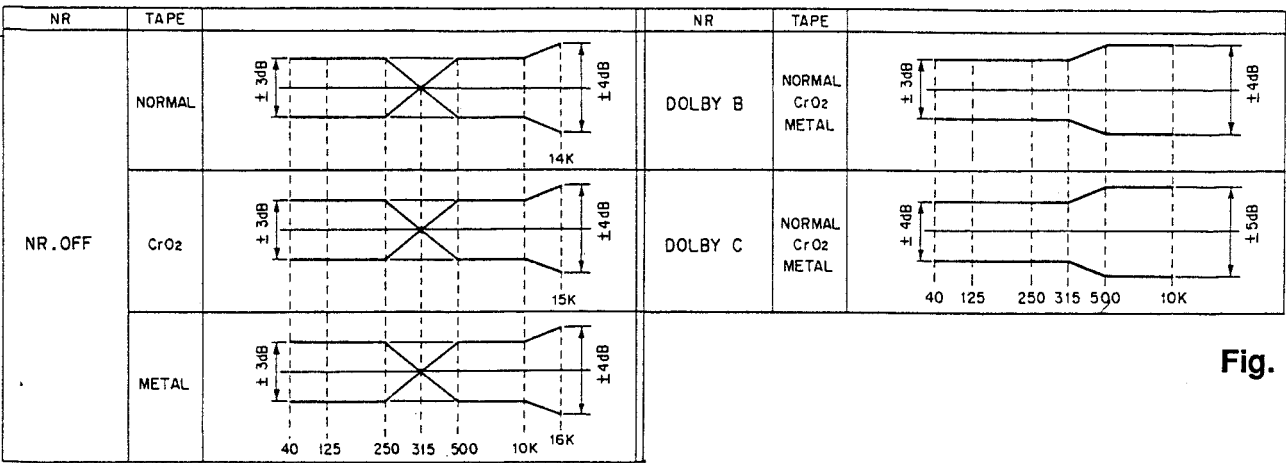
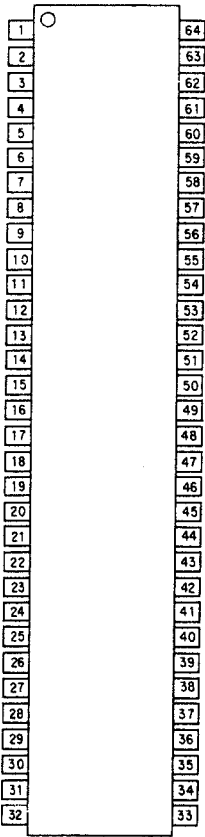


Fig. D

■ μ-COM DATA (IC10: M50746-271SP)



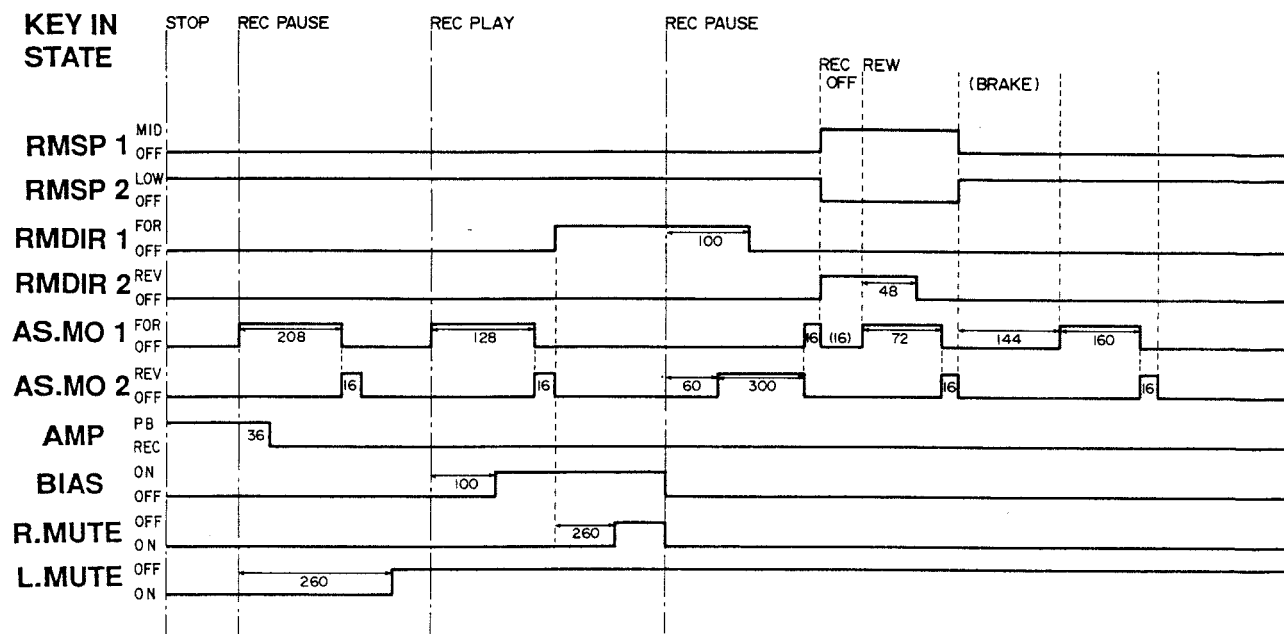
TOP VIEW

PIN No.	PIN NAME	I/O	NAME	FUNCTION	LOGIC	Remarks
1	Vcc	I	+5V	μ-COM +5V		
2	AVss	I	GND	A-D Port Ground		
3	VREF	I	Reference Voltage	A-D Port Reference Voltage		
4	D-A	—	—	—		
5	PWN	—	—	—		
6	P63	O	LCD	INH	H: INH	EXPU
7	P62	O	Output	CE		EXPU
8	P61	O		CLK		EXPU
9	P60	O		DATA		EXPU
10	AN7	I	Meter Input L			
11	AN6	I	Meter Input R			
12	AN5	I	Operation	INTRO ◁ /INTRO ▷ /MUTE/REC		
13	AN4	I	SW Input	REW/FF/PLAY/STOP		
14	P43	I	Mechanism Position A			EXPU
15	P42	I	Mechanism Position B			EXPU
16	P41	I	Mechanism Position C			EXPU
17	P40	—	—	—		
18	P37	I	Tape Switch Input	Hole Detect Switch RI		EXPU
19	P36	I	Tape Switch Input	Hole Detect Switch 70		EXPU
20	P35	I	Tape Switch Input	Hole Detect Switch CAS		EXPU
21	P34	I	Tape Switch Input	Hole Detect Switch MET		EXPU
22	P33	—	—	—		
23	/INT2	I	Remote Control Input			EXPU
24	P31	I	Reel Pulse Input	Take up Pulse		EXPU
25	P30	I	Reel Pulse Input	Supply Pulse		EXPU
26	/INT1	I	Power Off Detect			
27	CNVss		GND	μ-COM Ground		
28	/RES		Reset			
29	XIN	I	Clock Input			
30	XOUT	O	Clock Output			
31	Ø	—	—	—		
32	Vss		GND	μ-COM Ground		
33	P57	I	Auto Mode Input	Switch Input FULL		EXPU
34	P56	I	Auto Mode Input	Switch Input O-M		EXPU
35	P55	I	Auto Mode Input	Switch Input T. PLAY		EXPU
36	P54	I	Auto Mode Input	Switch Input T. REC		EXPU
37	P53	I	Tape Switch Input			EXPU
38	P52	I	REMAIN Switch Input			EXPU
39	P51	I	MEMORY Switch Input			EXPU
40	P50	I	RESET Switch Input			EXPU
41	P17	—	—	—		
42	P16	—	—	—		
43	P15	—	—	—		
44	P14	—	—	—		
45	P13	I	Music Pulse Input			
46	P12	I	MPX Switch Input		L: ON	EXPU
47	P11	I	NR Switch Input		L: ON	EXPU
48	P10	I	B/C Switch Input		L: C	EXPU
49	P07	—	—	—		
50	P06	—	—	—		
51	P05	O	REC/PB Select		L: REC	
52	P04	O	REC MUTE Output		L: ON	
53	P03	O	Tape Select Output	LH	L: ON	
54	P02	O	Tape Select Output	CrO ₂	L: ON	
55	P01	O	Tape Select Output	METAL	L: ON	
56	P00	O	Line Mute Output		L: ON	
57	P27	—	—	—		

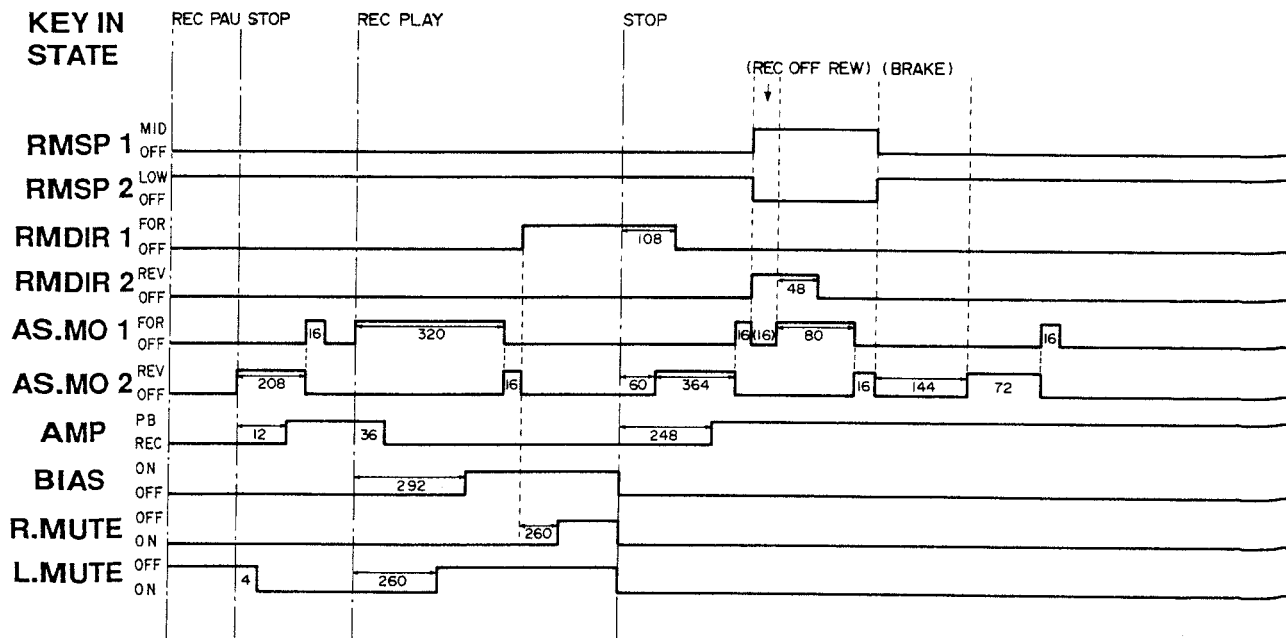
PIN No.	PIN NAME	I/O	NAME	FUNCTION	LOGIC	Remarks
58	P26	O	Bias Output		H: ON	
59	P25	O	Asist Motor Output		PLAY: 0 STOP: 1	
60	P24	O	Asist Motor Output		PLAY: 1 STOP: 0	
61	P23	O	Reel Speed Output		LOW: 1 MID: 0 HIGH: 0	
62	P22	O	Reel Speed Output		LOW: 0 MID: 1 HIGH: 0	
63	P21	O	Reel Motor Output		▷▷: 0 ◁◁: 1 STOP: 0	
64	P20	O	Reel Motor Output		▷▷: 1 ◁◁: 0 STOP: 0	

TIMING CHART

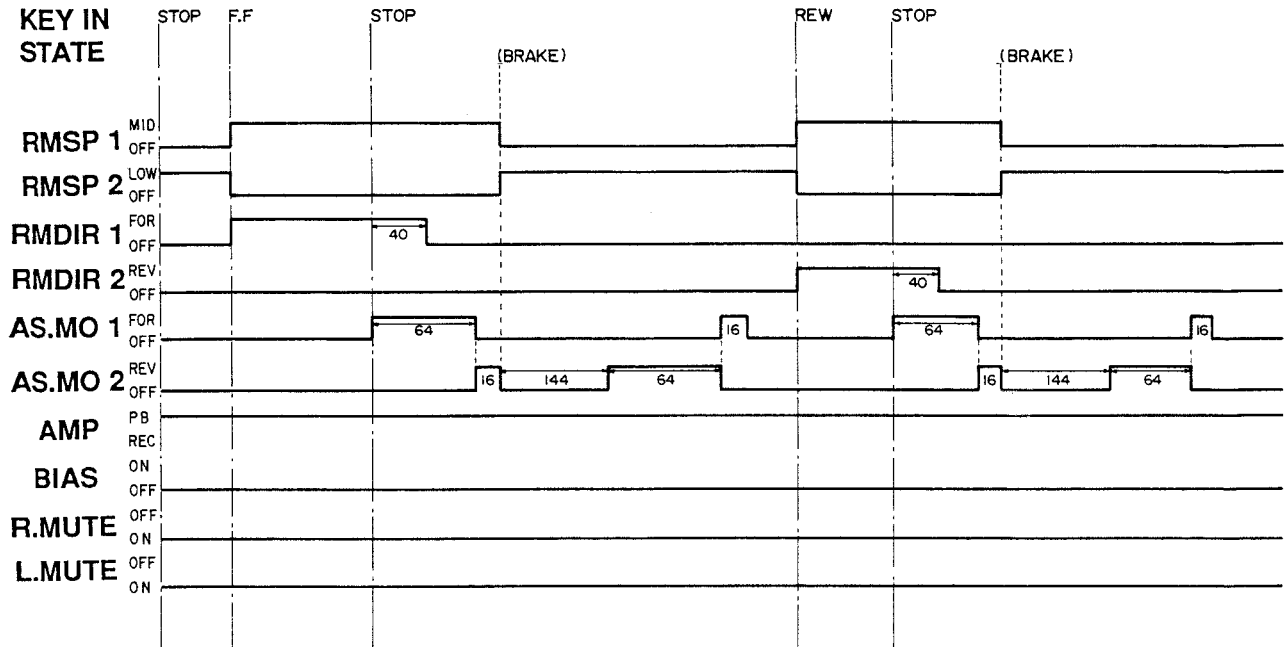
FORWARD DIRECTION 1



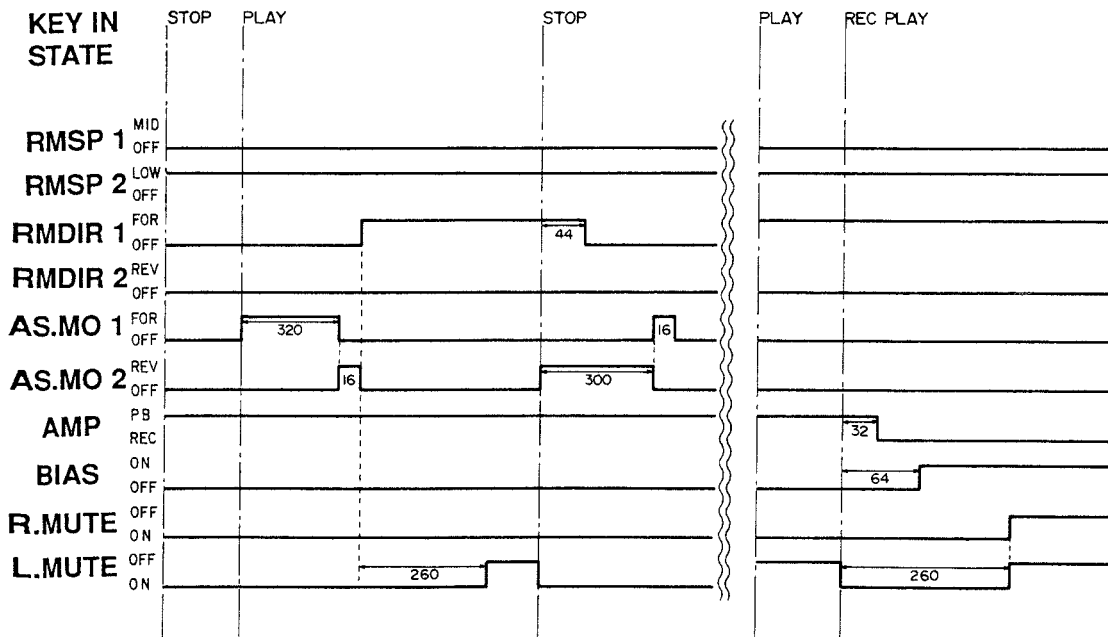
FORWARD DIRECTION 2



FORWARD DIRECTION 3

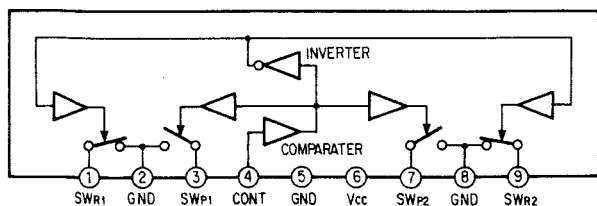


FORWARD DIRECTION 4

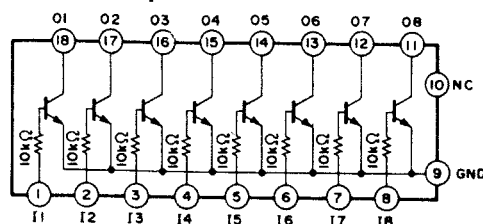


■ IC BLOCK

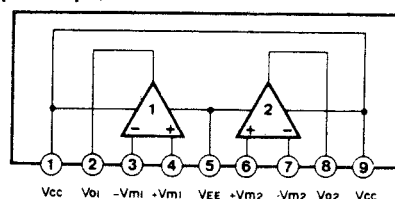
IC1: μ PC1330HA
(PB/REC Head Switch IC)



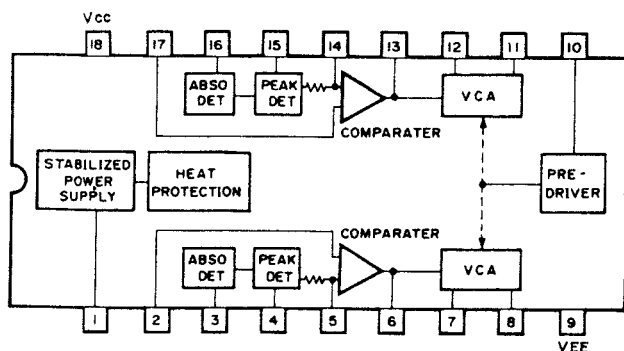
IC6: AN90B20
(Transistor Array)



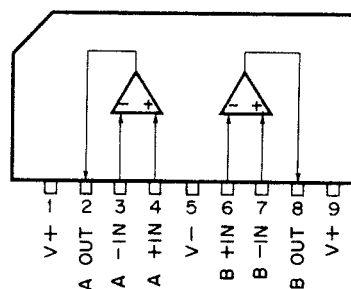
IC3, 11, 12: AN6551, NJM4558S, BA715
IC4, 5, 13: NJM4556S-A
(Dual Ope-amp.)



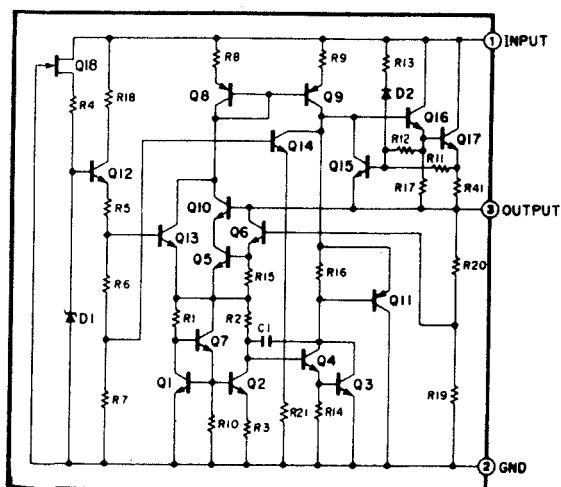
IC7: μ PC1297CA
(Dolby HX PRO)



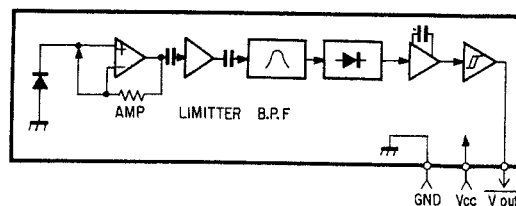
IC2: NJM2043S-D
(Pre-amp.)



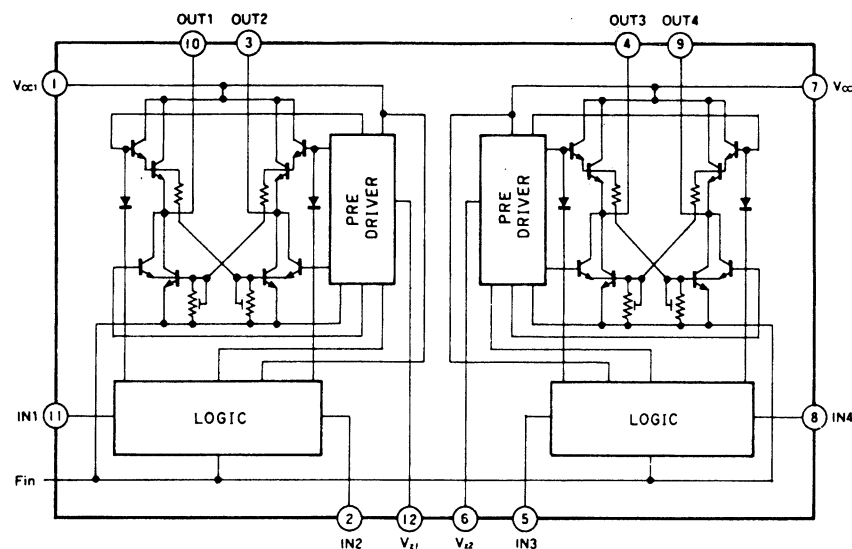
IC14: NJM78M05A
(Regulator)



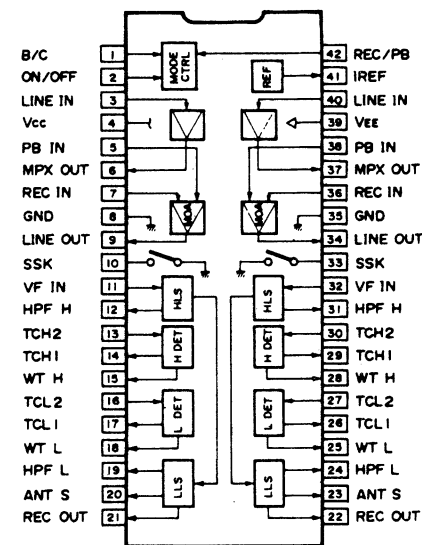
U1: GP1U501X
(Remote Control Receptor)



IC9: LB1649
(Motor Driver)

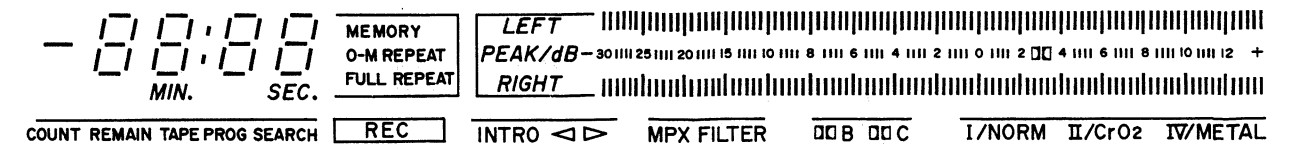


IC8: CX20187
(Dolby NR)

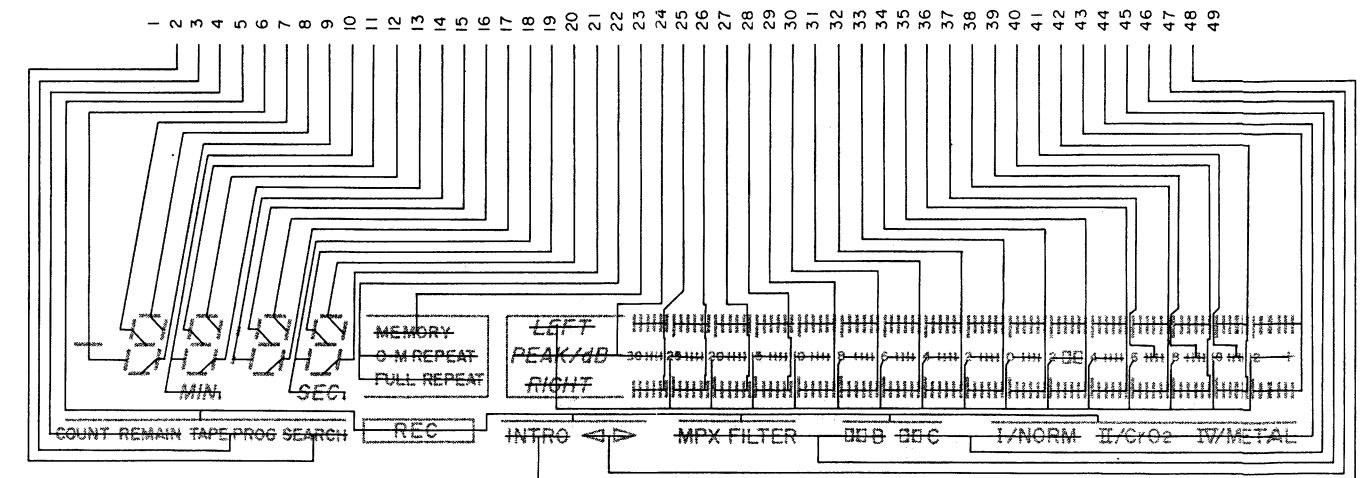


■ DISPLAY PIN CONNECTIONS

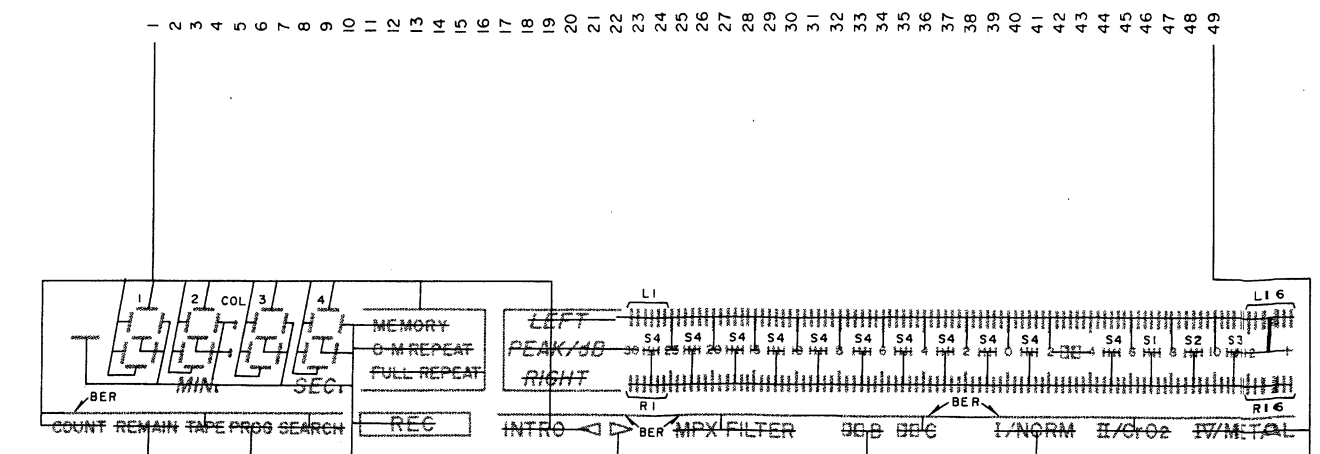
● DISPLAY (LCD-8110B1JP)



● SEGMENT



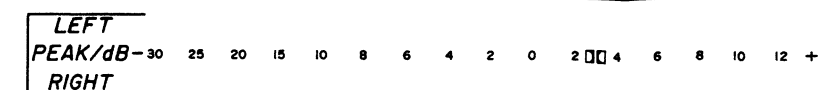
● COMMON



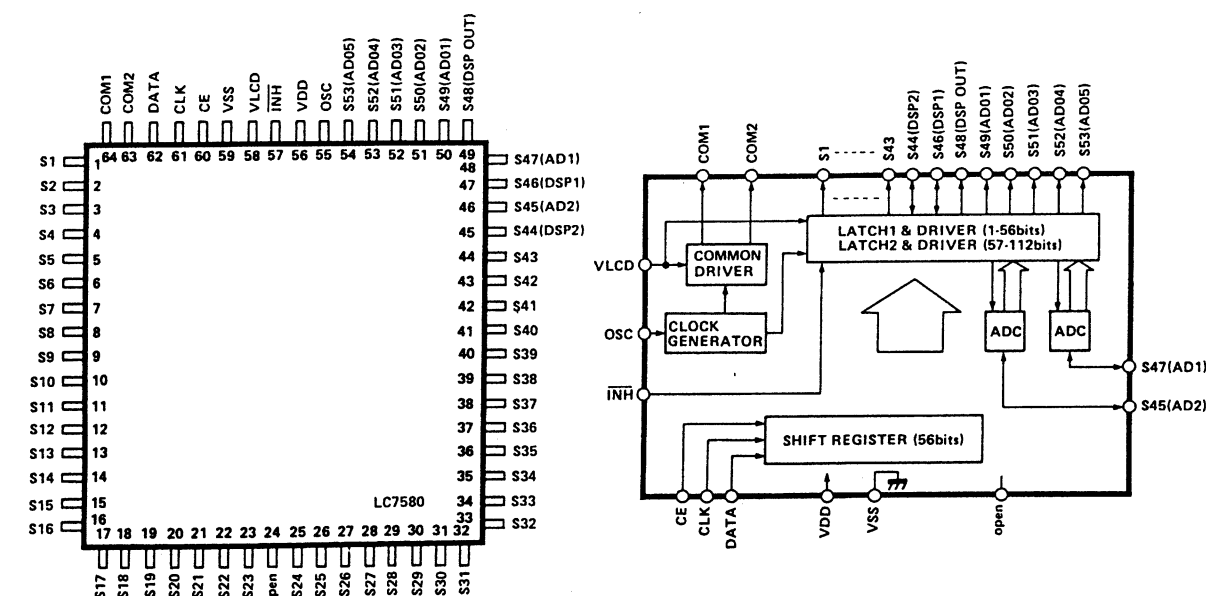
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
COM1	COM	SEARCH	TAPE	COUNT	BER	1e	1f	1a	1d	2e	2f	2a	2d	3e	3f	3a	3d	4e	4f
COM2	—	—	PROG	REMAIN	REC	—	1g	1b	1c	MIN	2g	2b	2c	COL	3g	3b	3c	SEC	4g

NO	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
COM1	4a	4d	FULL	1)	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	—	—	—
COM2	4b	4c	O-M	MEMO	S3	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	S1	R13

NO	39	40	41	42	43	44	45	46	47	48	49
COM1	—	L14	—	L15	L16	II/CrO2	BDB	MPX	INTRO	—	—
COM2	S2	R14	S3	R15	R16	IV/MET	I/NOR	BDB	—	—	COM



IC500: LC7582 (LCD Driver)

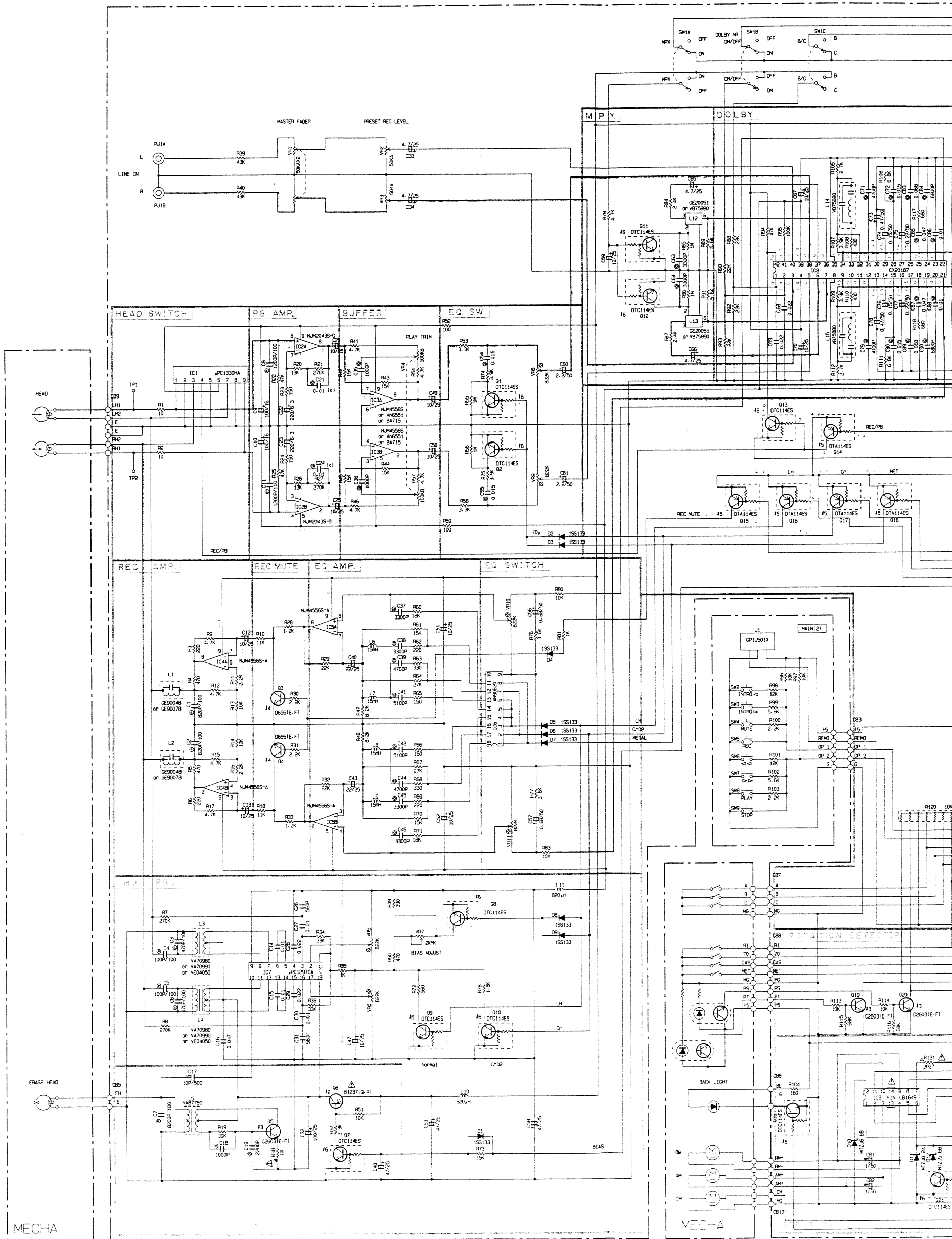


SCHEMATIC DIAGRAM

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/5W)
□	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
◇	METAL FILM RESISTOR
■	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
▩	CEMENT MOLDED RESISTOR
⊗	SEMI VARIABLE RESISTOR
●	CHIP RESISTOR

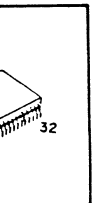
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	POLYSTYRENE FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
①	MICA CAPACITOR
②	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

NOTICE
(J)..... Japanese model
(U)..... U.S.A model
(C)..... Canadian model
(A)..... Australian model
(G)..... European model
(B)..... British model
(P)..... General model
(P)..... RP model



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODE AND ICS.

2SC3311A 2SD655 2SD1302 2SD1468 2SC2603	2SA1115 2SA1309A 2SB786 2SD947	DTA114ES DTC114ES 2SA933S 2SC1740S	2SA1674 2SB1237	All Diodes	AN78M05 NJM78M05A	AN6551 NJM4558S BA715 NJM4556S-A NJM2043S-D	LB1649	μPC1330HA	μPC1297CA AN90B20	LC7582	CX20187	M50746-271SP

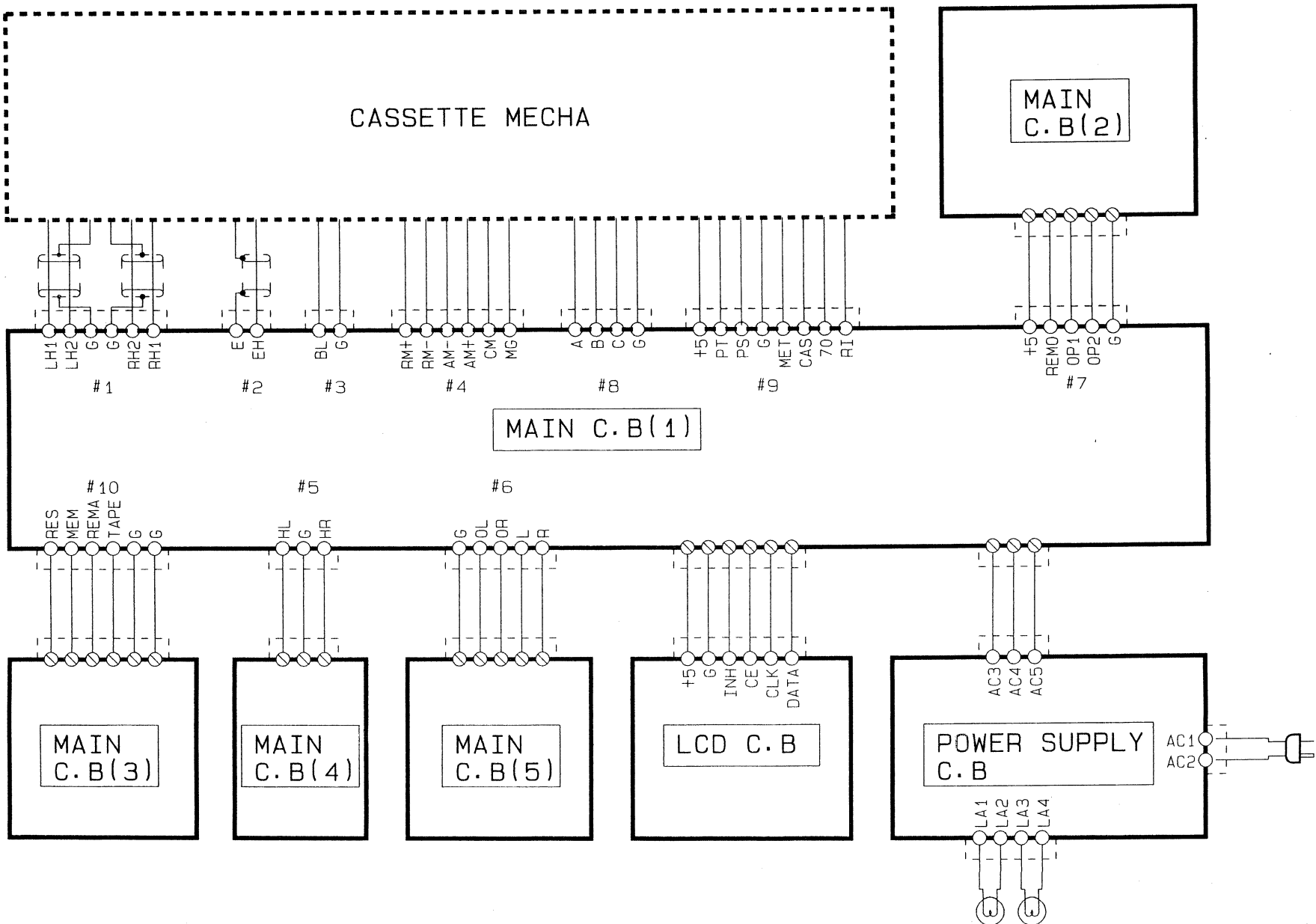


Mark	Reference Parts Number	Parts Name
F1	Q30-32	25A1115(E-F) 25A9335(G-R) 25A1359A(Q-R-S)
F2	Q6	25B1237(Q-R) 25A1674(R-S)
F3	Q5-19-20-25-26-29	25C2603(E-F) 25C17405(S-R) 25C3311(A(Q-R-S))
F4	Q3-4-33-34	23D655(E-F) 23D1302(R-S) 23D1468(Q-R-S)
F5	Q14-18-21	D1A115E UN4111
F6	Q1-2-7-13-21-23-27-35-50	D1C114E UN4211

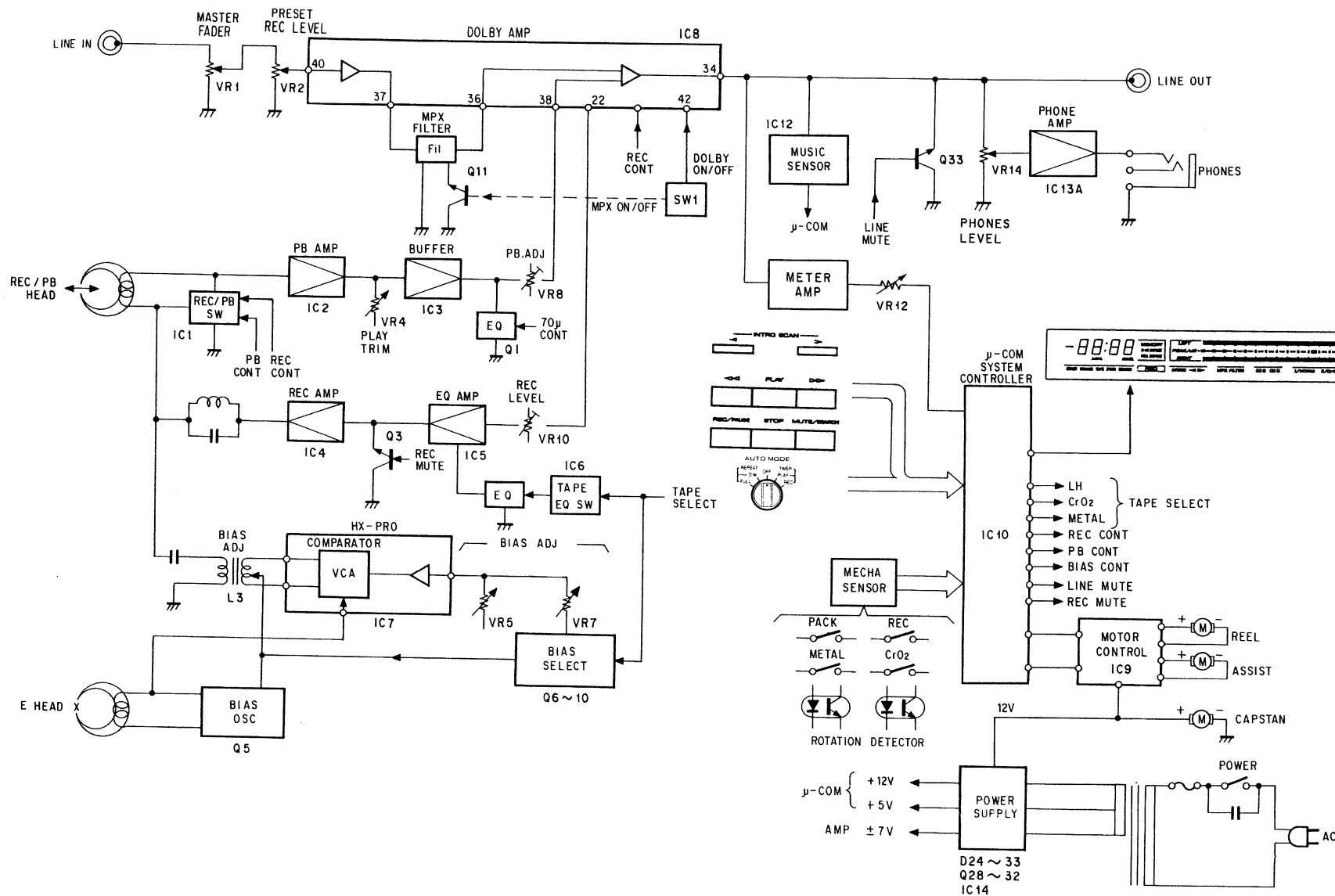
CAUTION

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

■ WIRING



BLOCK DIAGRAM



PARTS LIST

■ WARNING

Components having special characteristics are marked Δ 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 last Page.

■ ELECTRICAL PARTS

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
*	Vi733600	MAIN CIRCUIT BOARD	メインシート			
	FA153100	MYLAR FILM CAP	1000pF 50V	マイラーコン	C18,35,36	
	FA153220	MYLAR FILM CAP	2200pF 50V	マイラーコン	C19	
	FA153330	MYLAR FILM CAP	3300pF 50V	マイラーコン	C37,38;45,46,63,64	
	FA153470	MYLAR FILM CAP	4700pF 50V	マイラーコン	C39,44,71,79	
	FA153510	MYLAR FILM CAP	5100pF 50V	マイラーコン	C41,42	
	FA153680	MYLAR FILM CAP	6800pF 50V	マイラーコン	C84,90	
	FA154100	MYLAR FILM CAP	0.01uF 50V	マイラーコン	C86,88,103	
	FA154150	MYLAR FILM CAP	0.015uF 50V	マイラーコン	C54,55,72,80	
	VE325600	MULTILAYER MYLAR CAP	0.047uF 50V	積層マイラーコン	C85,87	
*	VE325800	MULTILAYER MYLAR CAP	0.068uF 50V	積層マイラーコン	C83,89	
	FC444100	MYLAR FILM CAP	0.01uF 50V	マイラーコン	C21,24	
	UT452100	POLYPROPYLENE FILM CAP	100pF 100V	P Pコン	C4,5	
	UT452470	POLYPROPYLENE FILM CAP	470pF 100V	P Pコン	C3,6	
	UT452820	POLYPROPYLENE FILM CAP	820pF 100V	P Pコン	C1,2	
	UT453120	POLYPROPYLENE FILM CAP	1200pF 100V	P Pコン	C8,11	
	UT653820	POLYPROPYLENE FILM CAP	8200pF 100V	P Pコン	C7	
	FG211100	CERAMIC CAP	10pF 500V (CH)	セラコン	C17	
	FG212560	CERAMIC CAP	560pF 50V	セラコン	C26,31	
	FG244100	CERAMIC CAP	0.01uF 50V	セラコン	C14,15,27,30,93,106,	
					107,115,117,120,121,125,126	
	FG244220	CERAMIC CAP	0.022uF 50V	セラコン	C28,29,68,69	
	FG244470	CERAMIC CAP	0.047uF 50V	セラコン	C16	
	U1838100	ELECTROLYTIC CAP	100uF 16V	ケミコン	C94	
	UH146470	ELECTROLYTIC CAP	4.7uF 25V	ケミコン	C33,34,65,66,122,123	
	UH247100	ELECTROLYTIC CAP	10uF 25V	ケミコン	C12,13,20,25,47,49~52,59,67,70,91,92,96,97,100~102,104,105,108,110	
	UH147220	ELECTROLYTIC CAP	22uF 25V	ケミコン	C40,43,119	
	UJ147470	ELECTROLYTIC CAP	47uF 25V	ケミコン	C48,53,58	
	UH148100	ELECTROLYTIC CAP	100uF 25V	ケミコン	C32,112,114,124	
	UH265100	ELECTROLYTIC CAP	0.1uF 50V	ケミコン	C95,98	
	UW565150	ELECTROLYTIC CAP	0.15uF 50V	ケミコン	C74,76,99	
	UJ165220	ELECTROLYTIC CAP	0.22uF 50V	ケミコン	C75,77	
	UH165470	ELECTROLYTIC CAP	0.47uF 50V	ケミコン	C73,78	
	UH065680	ELECTROLYTIC CAP	0.68uF 50V	ケミコン	C56,57	
	UJ166100	ELECTROLYTIC CAP	1uF 50V	ケミコン	C111	
	UH166220	ELECTROLYTIC CAP	2.2uF 50V	ケミコン	C60,61	
*	UJ149220	ELECTROLYTIC CAP	2200uF 25V	ケミコン	C118	
	VE016600	ELECTROLYTIC CAP	220uF 6.3V	ケミコン	C22,23	
	VE017900	ELECTROLYTIC CAP	100uF 16V	ケミコン	C9,10	
	VF588200	ELECTROLYTIC CAP	2200uF 16V	ケミコン	C113,116	
	U1939820	ELECTROLYTIC CAP	8200uF 16V	ケミコン	C109	
	FM116100	ELECTROLYTIC CAP	1uF 50V	B Pケミコン	C81,82	
	VA877600	COIL, OCS.		ハッシンコイル	L5	
	VB758900	COIL, MPX		L CフィルターMPX	L12,13	
	GE900780	COIL, TRAP	105KHz	トラップコイル	L1,2	
	VA709900	COIL, STEP UP	105KHz	ステップアップコイル	L3,4	

* : New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VB758800	COIL		スキューイングコイル	L14,15	
	GE900960	COIL	820uH	コイル	L10,11	
	GE901650	COIL	15mH	コイル	L6~9	
	HV454100	FLAME PROOF CARBON RESISTOR	10Ω 1/4W	不燃化カーボン抵抗	R38	
	HL324270	METAL OXIDE RESISTOR	27Ω 2W	酸化金属被膜抵抗	R121	
*	VG734100	RESISTOR ARRAY	10Kx4	抵抗アレイ	R119	
	VE111400	RESISTOR ARRAY	10Kx8	抵抗アレイ	R136	
	VG734700	RESISTOR ARRAY	10Kx10	抵抗アレイ	R120	
	iG132200	IC	BA715	I C	IC3,11,12	
	iG077410	IC	NJM4556S-A	I C	IC4,5,13	
	iG075600	IC	NJM78M05A	I C	IC14	
	iG089900	IC	AN90B20	I C	IC6	
	XA300001	IC	uPC1297CA	I C	IC7	
	XB298001	IC	CX20187	I C	IC8	
	XD864001	IC	uPC1330HA	I C	IC1	
	XA299001	IC	LB1649	I C	IC9	
*	XH152A00	IC	M50746-271SP	I C	IC10	
	iG082900	IC	NJM2043S-D	I C	IC2	
	VF926500	LIGHT DETECTING MODULE	GP1U501X	リモコン受光ユニット	U1	
	VE327300	PUSH SWITCH	KHH-MA901	ブッシュSW	SW2~9,11~14	
*	KA501960	ROTARY SWITCH	2-5	ロータリーSW	SW10	
	VI564100	PUSH SWITCH	2-3	ブッシュSW	SW1	
	LB401050	PIN JACK		ピンコネクタ	PJ1	
	VB097300	PHONES JACK		ホーンコネクタ	JK1	
	VC014600	BASE POST	EH i-TYPE 2P TE	コネクタベースポスト	CB5,6	
*	VC014800	BASE POST	EH i-TYPE 4P TE	コネクタベースポスト	CB7	
	VC015000	BASE POST	EH i-TYPE 6P TE	コネクタベースポスト	CB9,10	
	VC015200	BASE POST	EH i-TYPE 8P TE	コネクタベースポスト	CB8	
	VD004600	BASE PIN	PH i-TYPE 3P TE	ベースピン	CB1	
	VD004800	BASE PIN	PH i-TYPE 5P TE	ベースピン	CB2,3	
	VD004900	BASE PIN	PH i-TYPE 6P TE	ベースピン	CB4	
*	VD827600	CERAMIC RESONATOR	4MHz	セラミック振動子	XL1	
	VB861600	PRE-SET POTENTIOMETER	B22K	半固定VR	VR5,6,8~11	
	VB863400	PRE-SET POTENTIOMETER	B33K	半固定VR	VR12,13	
	VI659800	POTENTIOMETER	2KYK	ロータリーVR	VR7	
	VI659900	POTENTIOMETER	A50K	ロータリーVR	VR2,3	
*	VF113700	POTENTIOMETER	A5KAx2	二連ロータリーVR	VR14	
	VI660000	POTENTIOMETER	A50Kx2	二連ロータリーVR	VR1	
	VI660100	POTENTIOMETER	B100Kx2	二連ロータリーVR	VR4	
	iA093370	TRANSISTOR	2SA933S Q,R	トランジスタ	Q30,32	
	VE613300	TRANSISTOR	2SB1237 Q,R	トランジスタ	Q6	
	iB078600	TRANSISTOR	2SB786	トランジスタ	Q31	
	iC174070	TRANSISTOR	2SC1740S S,R	トランジスタ	Q5,19,20,25,28,29	
	VA710000	TRANSISTOR	2SD1468 Q,R,S	トランジスタ	Q3,4,33,34	
	iD094700	TRANSISTOR	2SD947	トランジスタ	Q28	
	VD678500	DIGITAL TRANSISTOR	DTA114ES	デジタルトランジスタ	Q14~18,24	
	VD678700	DIGITAL TRANSISTOR	DTC114ES	デジタルトランジスタ	Q1,2,7~13,21~23,27,35	
	iF004600	DIODE	1SS133	ダイオード	D1~9,14~22,27,28,33	
	VH770800	DIODE	1SR139-100 T-32	ダイオード	D24~26,29~32	

* : New Parts (新規部品)

ランク : Japan only

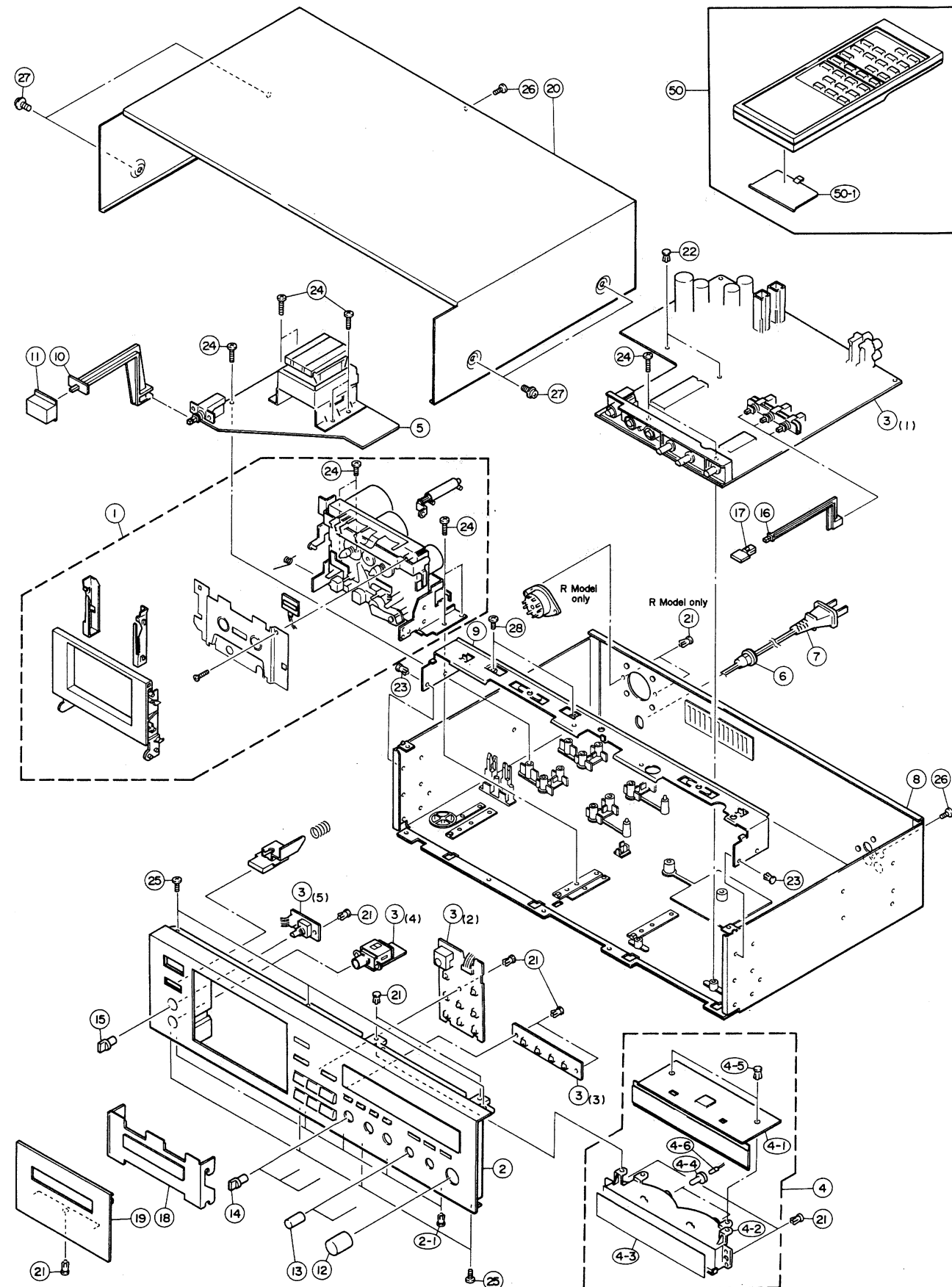
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※ : New Parts (新規部品)

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EXPLODED VIEW



Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
* 1	V1798100	CASSETTE DECK MECHANISM	カセットデッキメカ	BL		
* 1	V1798200	CASSETTE DECK MECHANISM	カセットデッキメカ	T		
* 2	V1733400	PANEL UNIT	パネルユニット	BL		
* 2	V1733500	PANEL UNIT	パネルユニット	T		
* 2-1	V1657300	SUB PANEL	サブパネル	BL		
* 2-1	V1657400	SUB PANEL	サブパネル	T		
* 2-2	V1806700	BUTTON ASS'Y	ボタンASSY	BL		
* 2-2	V1806800	BUTTON ASS'Y	ボタンASSY	T		
* 2-3	V1657100	WINDOW	ウィンドウ	BL		
* 2-3	V1657200	WINDOW	ウィンドウ	T		
2-4	CB068880	PLASTIC RIVET	ブラリベット			
* 3	V1733600	MAIN CIRCUIT BOARD	メインシート			
* 4	V1795600	LCD UNIT	LCDユニット			
* 4-1	V1733800	LCD CIRCUIT BOARD	LCDシート			
4-2	VH400200	REFLECTOR	リフレクター			
4-3	VH409600	SHEET	シート	D		
4-4	VF444500	LAMP CAP	ランプキャップ			
4-5	CB605620	PLASTIC RIVET	ブラリベット			
4-6	V1284600	LAMP	ランプ	8V 150mV		
* 5	V1793500	POWER TRANSFORMER ASS'Y	パワートランスASSY		UC	
* 5	V1793600	POWER TRANSFORMER ASS'Y	パワートランスASSY		R	
* 5	V1793700	POWER TRANSFORMER ASS'Y	パワートランスASSY		AB	
* 5	V1793800	POWER TRANSFORMER ASS'Y	パワートランスASSY		G	
6	CB616810	CORD STOPPER	コードストッパー	CH-22A	UC	
6	CB620190	CORD STOPPER	コードストッパー	CH-22B	RABG	
7	VE640000	POWER CORD ASS'Y	パワーコードASSY		UC	
7	VE222900	POWER CORD ASS'Y	パワーコードASSY		R	
7	VE042900	POWER CORD ASS'Y	パワーコードASSY		A	
7	VE043100	POWER CORD ASS'Y	パワーコードASSY		B	
7	VE043400	POWER CORD ASS'Y	パワーコードASSY		G	
8	NB630530	CHASSIS	シャーシ		UCABG	
8	NB630550	CHASSIS	シャーシ		R	
* 9	V1656900	FLAME	フレーム	T		
10	CB634280	ROD	ロッド	P		
11	VH889400	BUTTON	ボタン	10/25	BL	
11	VH889500	BUTTON	ボタン	10/25	T	
12	VH815600	KNOB	ノブ	D16	BL	
12	VH815700	KNOB	ノブ	D16	T	
13	VH889000	KNOB	ノブ	D9	BL	
13	VH889100	KNOB	ノブ	D9	T	
14	VH888800	KNOB	ノブ	D10	BL	
14	VH888900	KNOB	ノブ	D10	T	
15	VH989000	KNOB	ノブ	D10	BL	
15	VH989100	KNOB	ノブ	D10	T	
16	VD636500	ROD	ロッド		BL	
17	VH816000	BUTTON	ボタン	3/14	BL	
17	VH816100	BUTTON	ボタン	3/14	T	
* 18	V1658200	LID COVER	リッドカバー			
* 19	V1658000	LID PANEL	リッドパネル	BL		
* 19	V1658100	LID PANEL	リッドパネル	T		

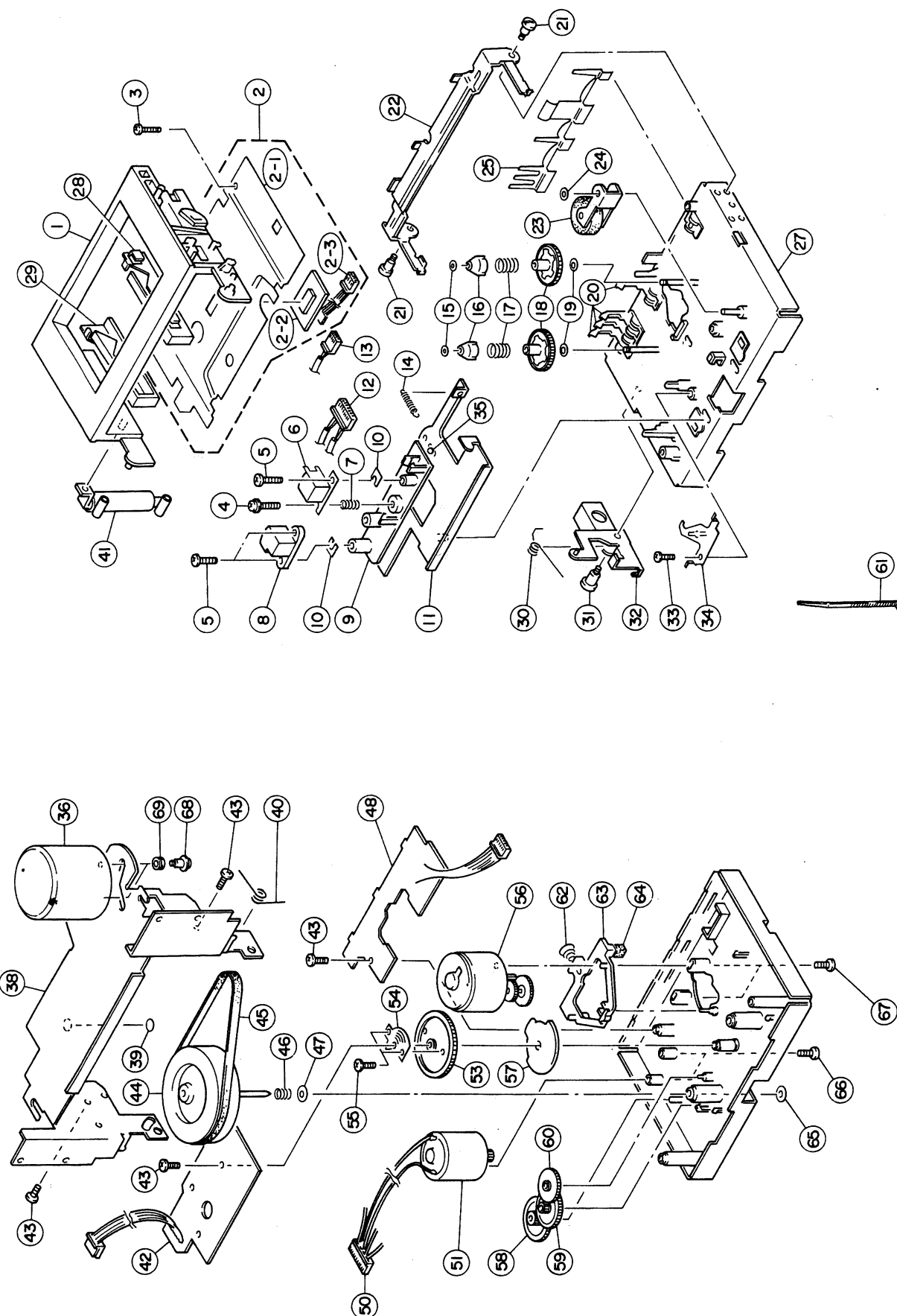
* : New Parts (新規部品)

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MECHANISM PARTS

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
* 1	VI798100	CASSETTE MECHANISM	カセットメカ	BL		
* 1	VI798200	CASSETTE MECHANISM	カセットメカ	T		
1	XX674200	HOLDER, CASSETTE	カセットホルダー	BL	KGC103823	
* 1	CX613800	HOLDER, CASSETTE	カセットホルダー	T	SGC2900601	
2	NX601690	BLIND PLATE ASS'Y	ブラインドプレート ASS'Y		KGE015954	
* 2-1	CX613780	BLIND PLATE	ブラインドプレート	BL	KGE103824	
* 2-1	CX613790	BLIND PLATE	ブラインドプレート	T	SGE2700701	
* 2-2	VF248800	LED	LED		SEE561001	
* 2-3	LX604670	CONNECTOR ASS'Y	コネクター付リード線		SEE2716311	
3	XX674690	PAN HEAD S-TYPE SCREW	ナベSタイトネジ		KGE103865	
4	XX674700	SPECIAL SCREW	特殊ネジ		SEE3053601	
5	XX674730	BIND HEAD SCREW	バインド小ネジ		SEE3053806	
* 6	GX604810	HEAD	録再ヘッド		SGE6500101	
7	XX674250	SPRING	コイルバネ		SIE2401101	
* 8	GX604820	ERASE HEAD	消去ヘッド		LE15AC1	
9	AX602600	HEAD BASE	ヘッドベース		SID1100903	
10	XX640650	SPACER	スペーサー		SIE3401102	
11	XX674280	HEAD BASE ASS'Y	ヘッドベース ASSY		KGD015444	
12	MX600690	CONNECTOR ASS'Y	コネクター付リード線		SEE2717931	
13	MX600700	CONNECTOR ASS'Y	コネクター付リード線		SEE2717921	
14	XX674310	SPRING	コイルバネ		SIE2403701	
15	XX641210	WASHER	ワッシャー		SEE1022802	
16	XX674320	CAP, REEL	リール爪		KGD103625	
17	XX674330	SPRING	バネ		KGE103842	
18	XX674340	REEL BASE ASS'Y	リールベース ASSY		KGE015441	
19	XX640360	WASHER	ワッシャー		PBE16032	
20	XX674350	SWITCH LEVER	SWレバー ASSY		KGE015299	
21	XX674360	SHAFT	軸		KGE103508	
22	XX674370	RELEASE ARM	解除アーム		KGD103511	
23	XX674380	PINCH ROLLER ARM ASS'Y	ピンチアーム ASSY		KGE015430	
24	XX640340	WASHER	ワッシャー		SEE1022820	
25	XX674390	SPRING	バネ		KGD103512	
27	XX674400	CHASSIS ASS'Y	メカシャーシ ASSY		KGD015468	
* 28	CX614810	GUIDE R, CASSETTE	カセットガイドR		SGE2900101	
* 29	CX613820	GUIDE L, CASSETTE	カセットガイドL		SGE2900201	
30	XX674410	SPRING	コイルバネ		KGE103816	
* 31	EX601330	BINDING HEAD SCREW	Sタイトネジ		SEE3064401	
32	XX674430	LEVER, LOCK	ロックレバー ASSY		KGD015443	
33	EA025086	PAN HEAD SCREW	FTナベ小ネジ	PACK	SEE3053502	
34	XX674440	HOLD PLATE, HEAD BASE	ヘッドベース押え板		KGE103749	
35	EZ001530	STEEL BALL	スチールボール		SIE3600201	
36	NX602300	MOTOR ASS'Y, CAPSTAN	キャプスタンモーター ASSY		KGE015764	
38	XX674460	BRACKET, MOTOR	モーターブラケット		KGC103752	
39	XX674470	HOLDER, THRUST	スラスト受け		SIE3300701	
40	XX674480	SPRING	コイルバネ		KGE103881	
41	XX674490	DUMPER UNIT	ダンパーユニット		SIE9903001	
* 42	NX607610	CONTROL PCB ASS'Y	コントロール基板 ASSY		KGD016242	
43	XX674710	BIND HEAD TAPPING SCREW	タッピングネジ		KGE103483	
44	XX674510	FLYWHEEL	フライホイール		KGD103811	
45	XX674520	BELT	ベルト		KGE103762	

* : New Parts (新規部品)

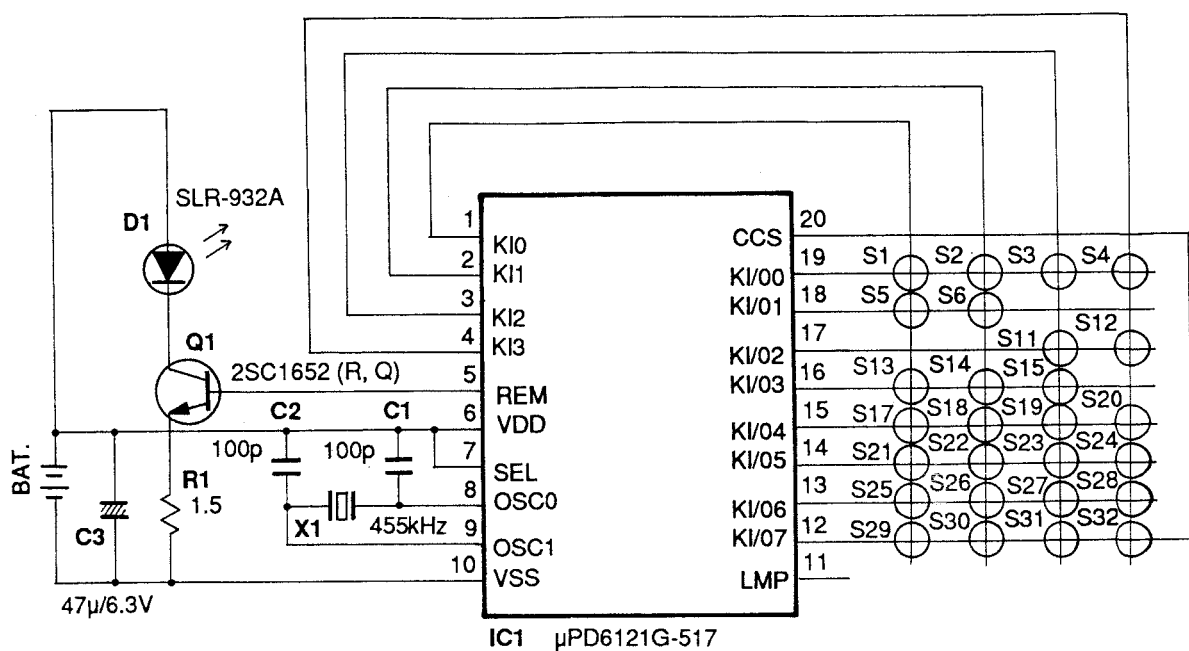
ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
46	XX674530	SPRING	コイルバネ		KGE103845	
47	XX696370	WASHER	ワッシャー		KGE103912	
48	NX601710	SENSOR SWITCH PCB ASS'Y	検知SW基板ASSY		KGD015951	
* 50	LX604680	CONNECTOR ASS'Y	コネクターASSY		SEE2716331	
51	XX674570	MOTOR ASS'Y, ASSIST	アシストモーターASSY		KGE015408	
53	XX674580	GEAR	接片歯車		KGD103485	
54	XX674590	CONTACT, ROTARY TYPE	ロータリー接片		SIE3402401	
55	XX674720	PAN HEAD SCREW	ナベ小ネジ		SEE3052201	
* 56	JX600610	MOTOR ASS'Y, REEL	リールモーターASSY		KGE016255	
57	XX674610	CAM	カム		KGD103484	
58	XX674620	GEAR	歯車		KGE103529	
59	XX674630	GEAR	歯車		KGE103582	
60	XX674640	GEAR	歯車		KGE103528	
61	CB069250	BINDING TIE	バインドタイ		PBE16840	
62	XX674650	SPRING	バネ		KGE103605	
63	XX674660	PLATE, BRAKE	ブレーキ板		KGD103500	
64	XX674670	RUBBER, BRAKE	ブレーキゴム		SIE1800401	
65	XX640770	WASHER	座金		SEE1023001	
66	XX674730	SCREW	ネジ		SEE3053806	
67	EA020126	BIND HEAD SCREW	バインド小ネジ	PACK	KGE103594	
68	XX641130	SCREW, MOTOR	モーター止めネジ		PBE16156	
* 69	CX613840	RUBBER, WASHER	ゴム座		SGE1801101	

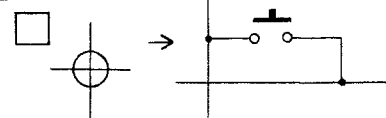
* : New Parts (新規部品)

ランク : Japan only

REMOTE CONTROL TRANSMITTER



KEY No.

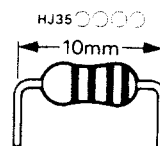


KEY NO.	D0	D1	D2	D3	D4	D5	D6	D7	FUNCTION
1	0	0	0	0	0	0	0	0	PLAY
2	1	0	0	0	0	0	0	0	▶▶
3	0	1	0	0	0	0	0	0	▶▶
4	1	1	0	0	0	0	0	0	STOP
5	0	0	1	0	0	0	0	0	REC/PAUSE
6	1	0	1	0	0	0	0	0	REC MUTE
11	0	1	0	1	0	0	0	0	SEARCH ▶▶
12	1	1	0	1	0	0	0	0	SEARCH ▶▶
13	0	0	1	1	0	0	0	0	TAPE
14	1	0	1	1	0	0	0	0	COUNTER RESET
15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

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	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			

1/4W Type



1/6W Type

