

STEREO CASSETTE DECK

KX-260/360

SERVICE MANUAL

IMPORTANT NOTICE

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

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

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification, 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

1. Critical Components Information.

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

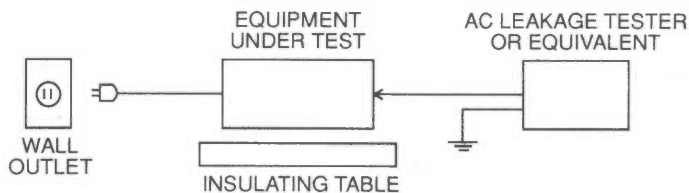
2. Leakage Current Measurement (For 120 V Model Only).

When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.

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

• POLARIZATION

This 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)



DO DOLBY B-C

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.

■ WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

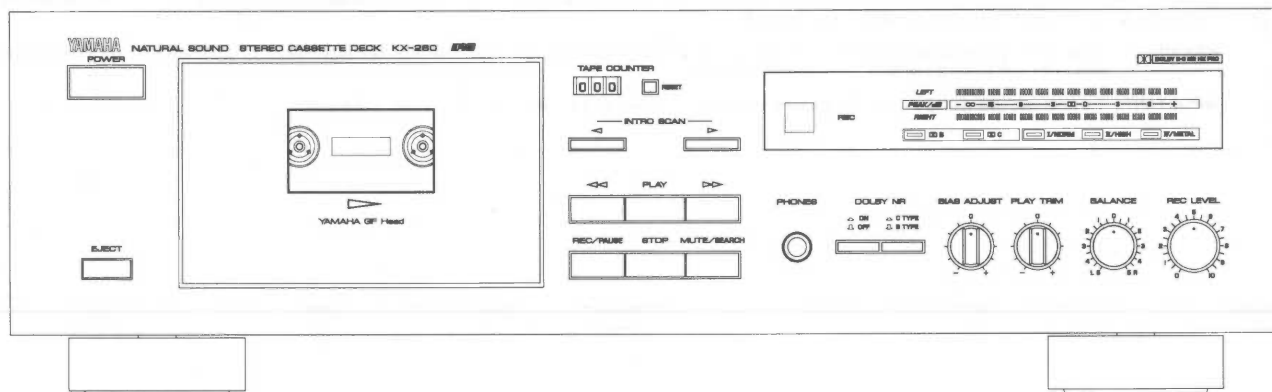
DO NOT PLACE SOLDER. ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

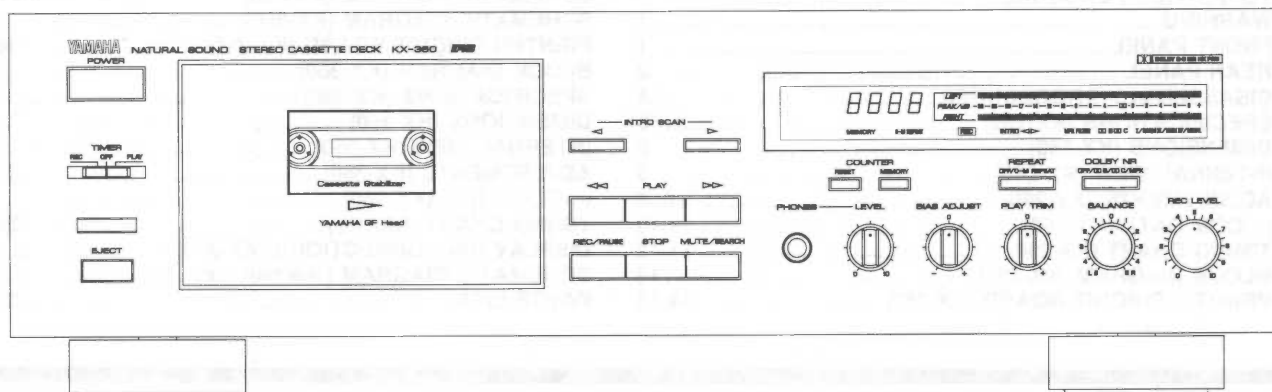
If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

■ FRONT PANEL

KX-260

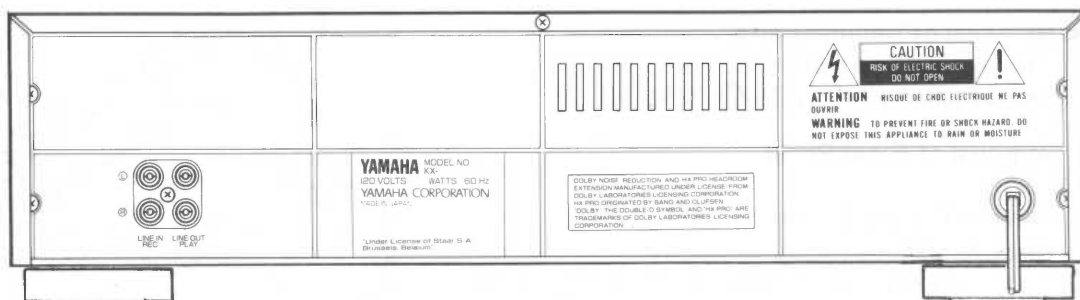


KX-360

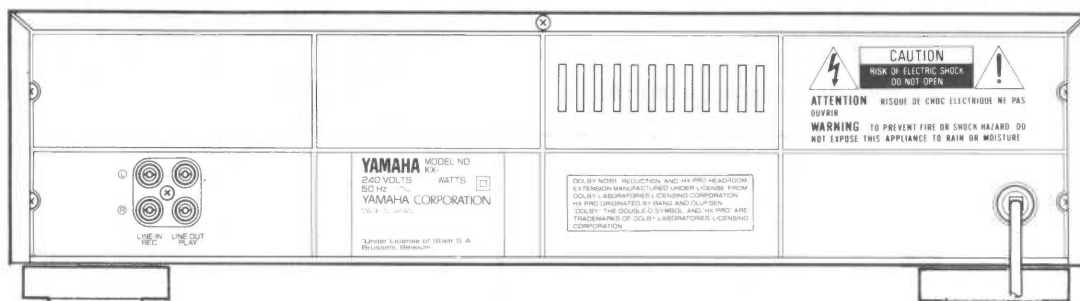


REAR PANELS

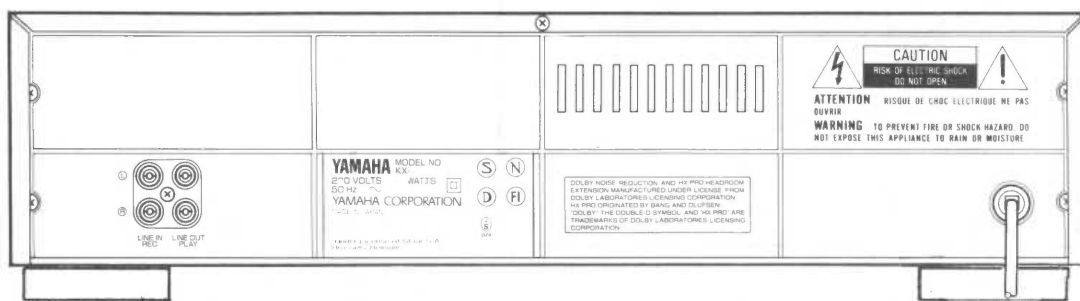
U.C. models



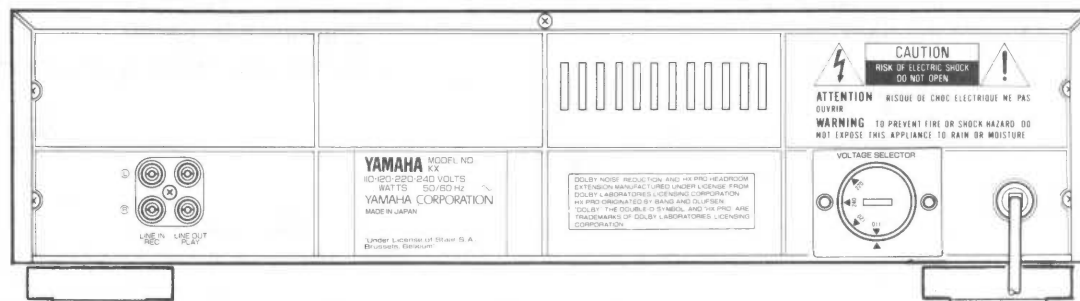
A, B models



G model



R model



DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered)

● Removal of Cabinet Parts

1. Removal of Top Cover

- a. Remove 6 screws (①, ②, ③) in fig. 1a.

2. Removal of Front Panel

KX-360

- a. Remove 6 screws (④) in fig. 1a.
b. Remove 5 knobs (A, B) in fig. 1a.
c. Remove connectors in 7 places (#1~6, 11).

KX-260

- a. Remove 6 screws (④) in fig. 1b.
b. Remove the counter belt.
c. Remove 4 knobs (A, B) in fig. 1b.
d. Remove connectors in 5 places (#1~#5).

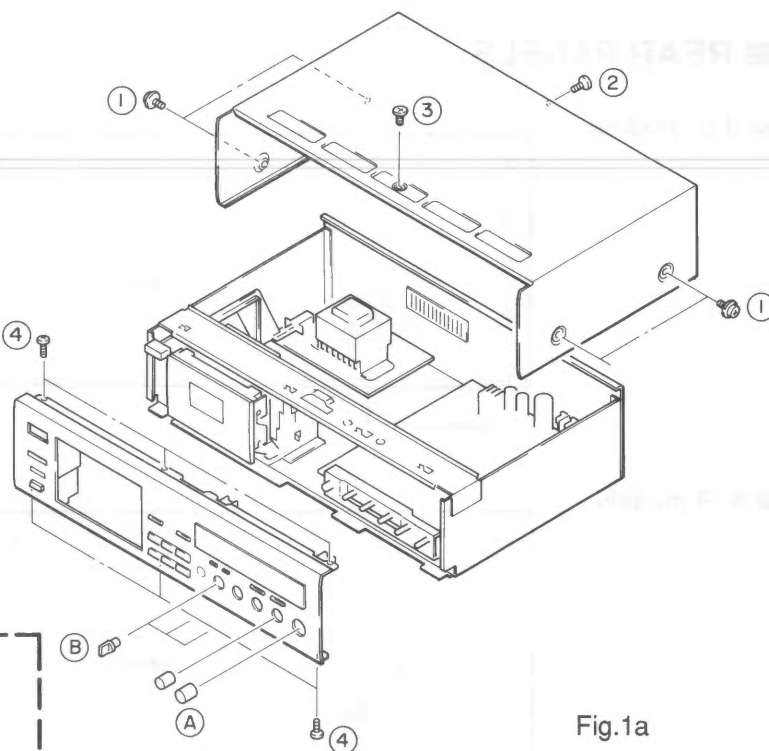


Fig.1a

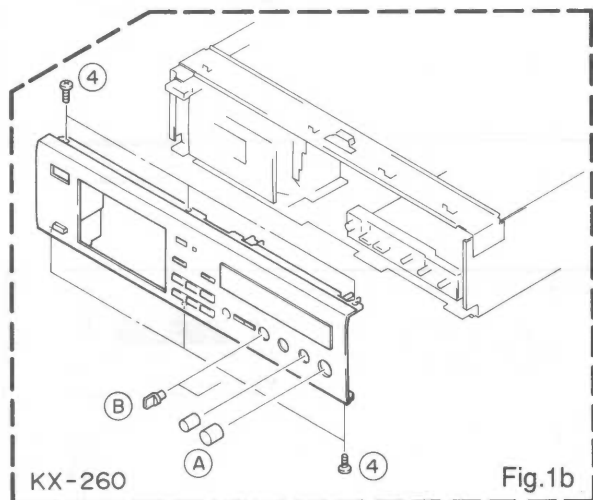


Fig.1b

3. Removal of Cassette Mechanism Unit

- a. Remove 4 screws (⑤) in fig. 2.
b. Remove the cassette mechanism unit after sliding it toward the back.

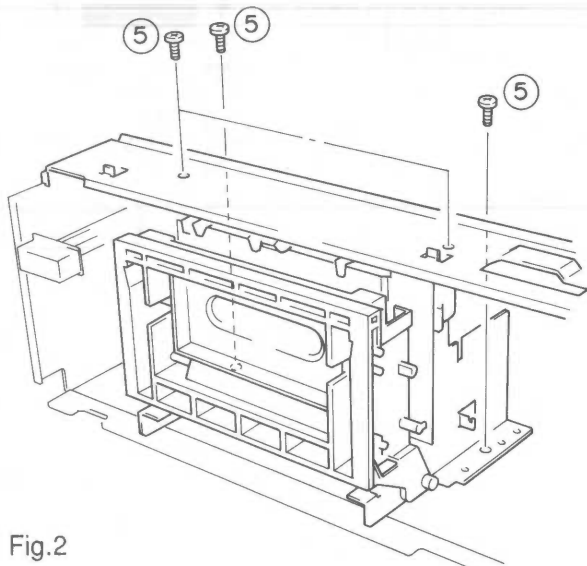


Fig.2

4. Removal of Housing Ass'y

- a. Detach the spring in fig. 3.
b. Remove lower part of the housing ass'y by pressing it to outside.
c. Remove the housing ass'y from the damper arm.

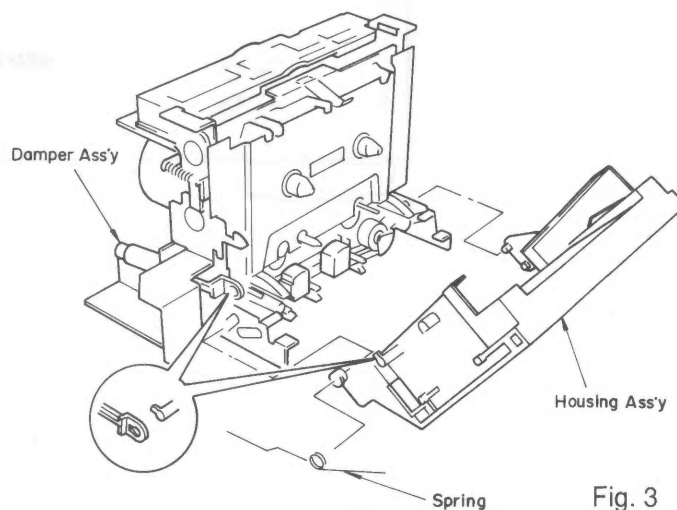


Fig. 3

5. Removal of Pinch Roller

- Detach the hook in fig. 4 and remove the pinch roller.

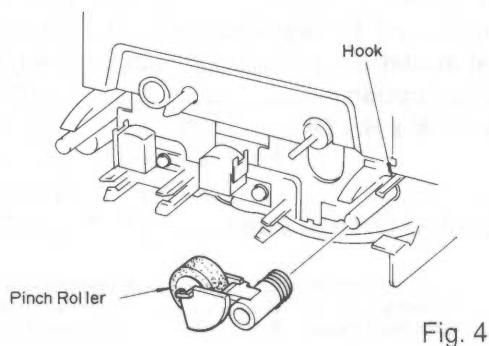


Fig. 4

7. Removal of Blind Plate

- Remove 1 screw (⑧) and 1 plastic rivet (©) in fig. 6 and then remove the back plate.

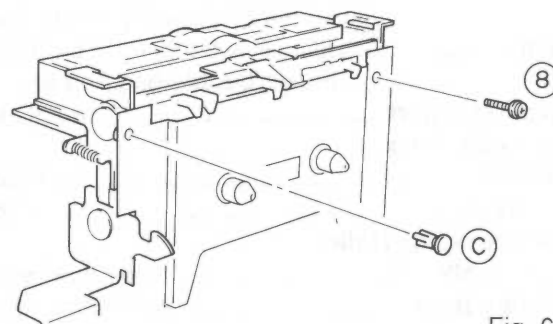


Fig. 6

6. Removal of Heads

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

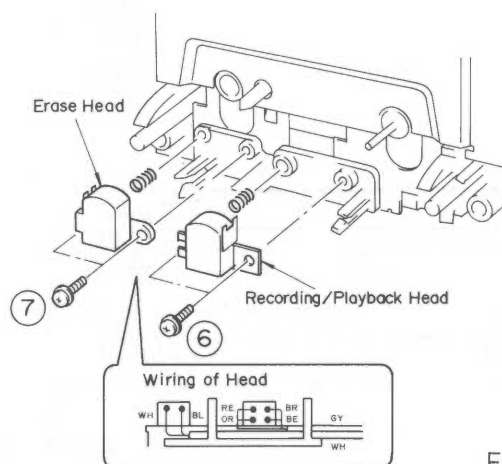


Fig. 5

8. Removal of Capstan Motor and Reel Motor

- Remove 2 screws (⑨) in fig. 7 and then remove the reel motor.
- Remove 2 screws (⑩) in fig. 7 and then remove the capstan motor.

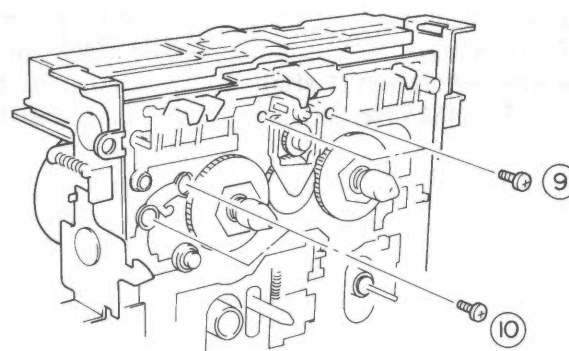


Fig. 7

9. Removal of Main Circuit Board

- Remove 4 screw (⑪) in fig 8.

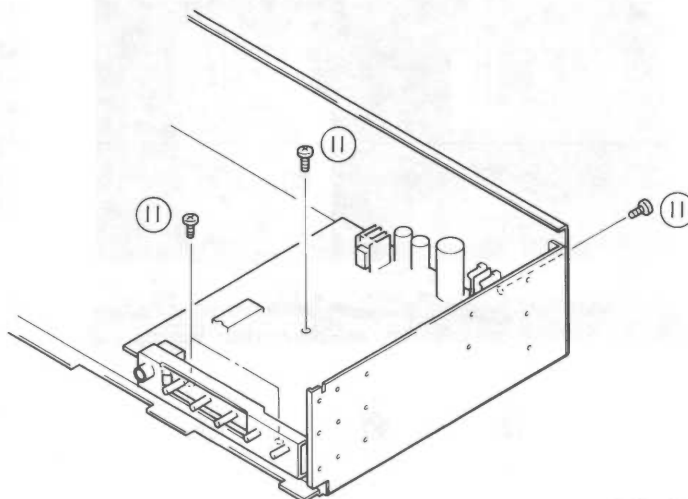


Fig. 8

KX-260

SPECIFICATIONS

Track Configuration	4 track, 2 channel stereo
Motor	DC servo motor (capstan) Flat torque DC motor (reel)
Heads	Recording/Playback: Hard permalloy Erase: Double-gap Ferrite head
Rapid Transport	90 sec. (C-60)
Wow and Flutter	
WRMS	0.08%
W.Peak	±0.15%
Signal-to-Noise Ratio	
Dolby NR off	better than 58 dB
Dolby B on	better than 66 dB
Dolby C on	better than 74 dB
Frequency Response	
Normal tape (-20 dB)	20 - 16,000 Hz ±3 dB
High tape (-20 dB)	20 - 17,000 Hz ±3 dB
Metal tape (-20 dB)	20 - 19,000 Hz ±3 dB
Harmonic Distortion	No more than 0.8%
Input Sensitivity/Impedance	
Line	100 mV/50 k-ohms
Output Level	
Line	570 mV/1.2 k-ohms
Phones	0.23 mW/8 ohms
Channel Separation (1 kHz)	40 dB
Cross Talk (125 Hz)	55 dB

GENERAL

Power Supplies

U.S.A. and Canada models 120 V, 60 Hz

Europe model 230 V, 50 Hz

U.K. model and Australia models 240 V, 50 Hz

General model 110/120/220/240 V, 50/60 Hz

Power Consumption 16 W

Dimensions (W x H x D) 435 x 131 x 283 mm

(17-1/8" x 5-3/16" x 11-1/8")

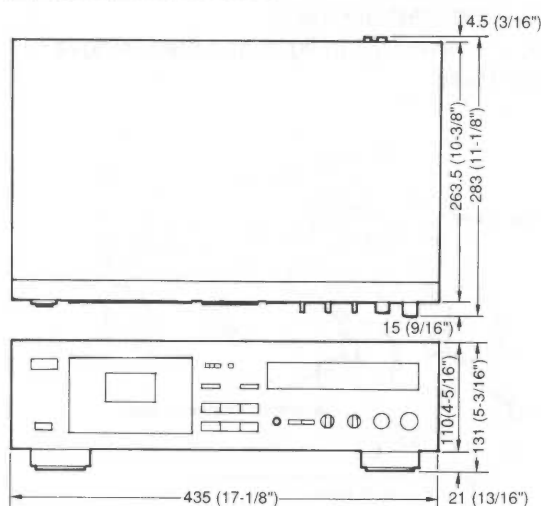
Weight 4.7 kg (10 lbs. 6 oz)

Remote Control Custom Code 7F, 7A and 7E

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

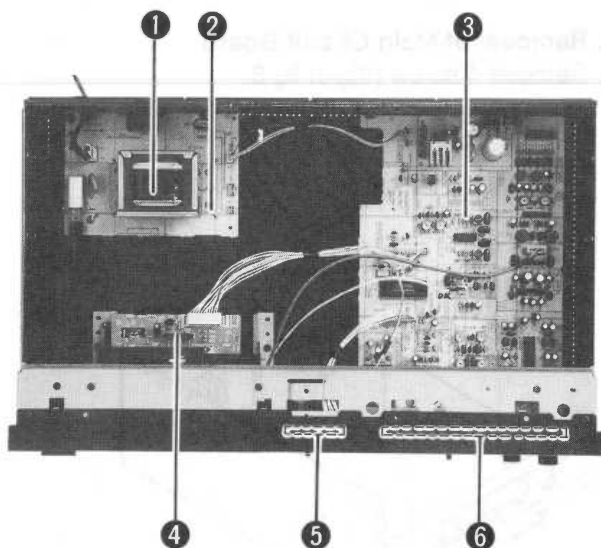
* Specifications subject to change without notice.

DIMENSIONS



unit: mm (inch)

INTERNAL VIEW



KX-260

- ① VOLTAGE SELECTOR (R model only)
- ② POWER TRANSFORMER CIRCUIT BOARD
- ③ MAIN CIRCUIT BOARD (1)
- ④ CASSETTE MECHANISM UNIT
- ⑤ MAIN CIRCUIT BOARD (3)
- ⑥ MAIN CIRCUIT BOARD (2)

■ ADJUSTMENTS

1. Before Adjustment:

- Make sure that AC line voltage is within:

Models	AC line voltage
U, C	120 V $\pm$ 10%
G	230 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-2111A (TX911580): FWD. Torque & Back Tension Torque
CT160L (TX911120): FF. Torque & REW. Torque
- DCVM

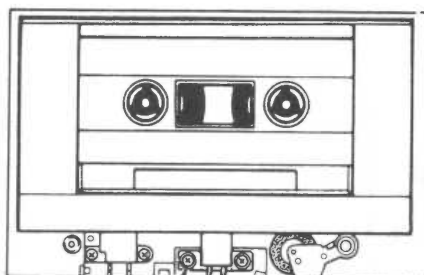
3. Test tape required

- MTT-111N (TX911650): Tape Speed (3 kHz)
- MTT-114N (TX911680): Azimuth (10 kHz)
- MTT-212N (TX911660): Playback Level (250 nWb/m)
- MTT-256 (TX911300): Playback Frequency Response (Normal)
- MTT-356 (TX911310): Playback Frequency Response (High)
- Reference tape
Normal (LH) : TDK AC224 (TX912190)
High (CrO₂) : TDK SA-60 or TDK AC513 (TX911610)
METAL : TDK AC712 (TX911590)

● MECHANISM ADJUSTMENT

0 dB=250 nWb/m (315 Hz) = -5 dBV (Line out terminal level)

Step	Item to be Adjusted	Tape	Instrument required	Mode	Adjustment part	Rating	Remarks
1	Check each torque		Torque meter TW-2111A CT160L	PLAY FF REW		Take-up torque: 25 g·cm~60g·cm Back tension: 1.5g·cm~6g·cm FF, REW torque: more than 70g·cm	
2	Check FF, REW take up times	AC-224 C-60				Less than 90 $\pm$ 15 seconds	
3	Azimuth	MTT-114N (10 kHz -10 dB)	ACVM Oscilloscope	PLAY	Azimuth adjustment screw. (Fig. A)	Playback level (monaural output) is maximum and phase difference should be minimum.	After the adjustment make sure to apply screw lock paint.
4	Tape speed	MTT-111N 3 kHz, -10 dB	Wow/flutter meter or Frequency counter	PLAY	Potentiometer at the back of the capstan motor. (Fig. B)	3000 Hz $\pm$ 15 Hz	• Perform adjustment at the position where the test tape is advanced/rewound to the middle if possible.
5	Wow/flutter	MTT-111N 3 kHz, -10 dB	Wow/flutter meter	PLAY		Less than 0.14% (JIS W. RMS)	



Azimuth adjustment screw

Fig. A

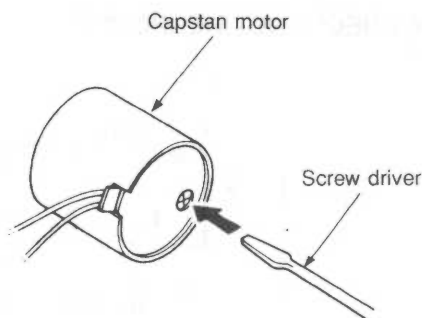
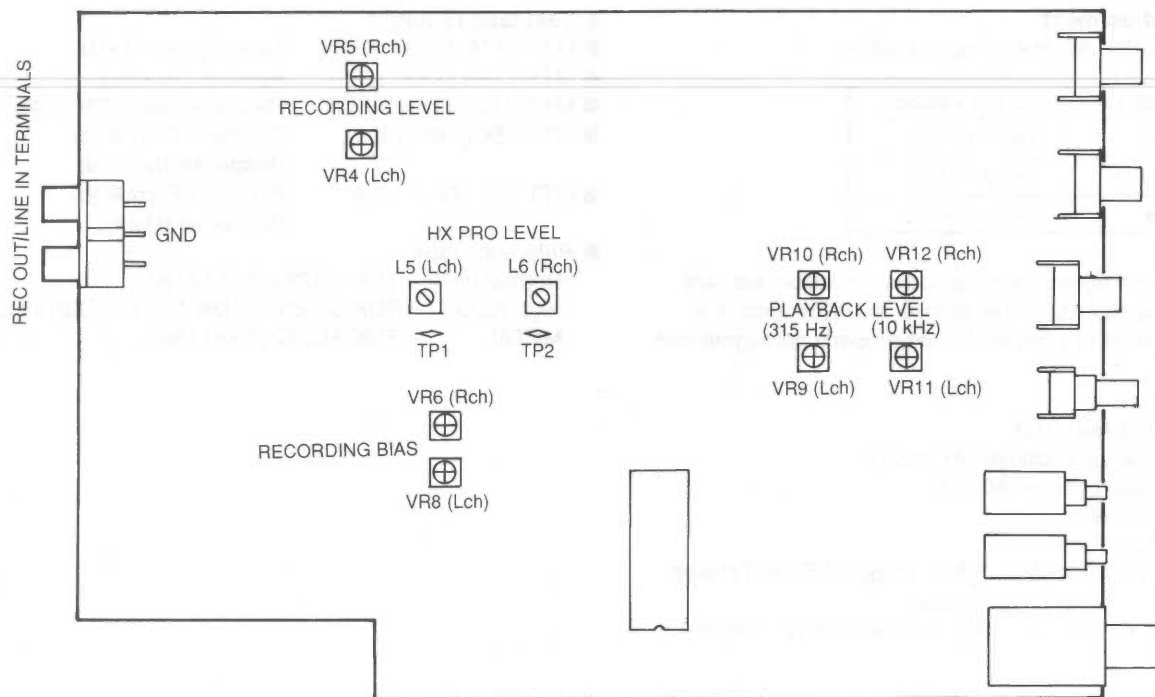


Fig. B

KX-260

● TEST POINT



● ELECTRIC ADJUSTMENT

* Standard level of this machine is that 250 nwb/m is 0 dB. (−5 dBV at LINE OUT)

● PLAYBACK ADJUSTMENT

Step	Adjustment Items	Tape	Instrument Required	Mode	Adjustment Part	Point of Measurement	Adjustment Method	Specification
1	Playback Level (315 Hz)	MTT-212N (0 dB)	ACVM	PLAY	VR9 (Lch) VR10 (Rch)	LINE OUT	When MTT-212N is played back, adjust VR so that Output Level becomes the specified Value.	−5 dBV
2	Playback EQ Level (10 kHz)	MTT-114N (10 kHz, −10 dB)	ACVM	PLAY	VR11 (Lch) VR12 (Rch)	LINE OUT	When MTT-114N is played back, adjust VR so that Output Level becomes the specified Value.	−15 dBV
3	Confirmation of Playback Frequency Response	MTT-256 (Normal: 3180 μs + 120 μs) MTT-356 (High: 3180 μs + 70 μs)	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 ±4 dB

● PLAYBACK FREQUENCY RESPONSE

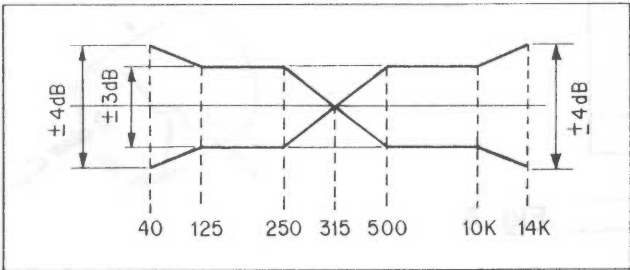


Fig. C

● RECORDING ADJUSTMENT (BIAS ADJ. VR and PLAY TRIM VR Center, if not specified otherwise)

Step	Adjustment Items	Test Tape	Instrument Required	Mode	Adjustment Terms Point	Measurement Point	Adjustment	Rating
1	Bias Oscillation Level (HX PRO)	HIGH (AC513) (CrO ₂)	DCVM	REC		TP1-GND TP2-GND	L5 (Lch) L6 (Rch)	Connect DCVM between each TP-GND and adjust L3 and L4 to minimum.
2	Recording Level	HIGH (AC513) (CrO ₂)	ACVM Audio Frequency Oscillator	REC and PLAY-BACK	1. Set REC LEVEL to maximum. 2. Enter REC/PAUSE mode. 3. Input 315 Hz Signal to LINE IN TERMINAL from Audio Frequency Oscillator. Adjust REC LEVEL knob so that level of LINE OUT TERMINAL becomes -25 dBV. 4. Record the above-mentioned signal. 5. Playback the recorded tape.	LINE OUT TERMINAL	VR4 (Lch) VR5 (Rch)	Adjust VR, so that level of LINE OUT TERMINAL becomes -25 dBV, at playback.
3	Recording Bias	Normal (LH) High (CrO ₂) and METAL	ACVM Audio Frequency Oscillator	REC and PLAY-BACK	1. Set REC LEVEL to maximum. 2. Enter REC/PAUSE mode. 3. Input 14 kHz signals to LINE IN TERMINAL from Audio Frequency Oscillator. Adjust the level of LINE OUT TERMINAL so that the level becomes -25 dBV. 4. Record the above-mentioned signal. 5. Playback the recorded tape.	LINE OUT TERMINAL	VR8 (Lch) VR6 (Rch)	Adjust VR so that the level of LINE OUT TERMINAL satisfies Fig. D when a tape, recorded at -25 dBV at each frequency, is played back.

● TOTAL FREQUENCY RESPONSE (-25dBV)

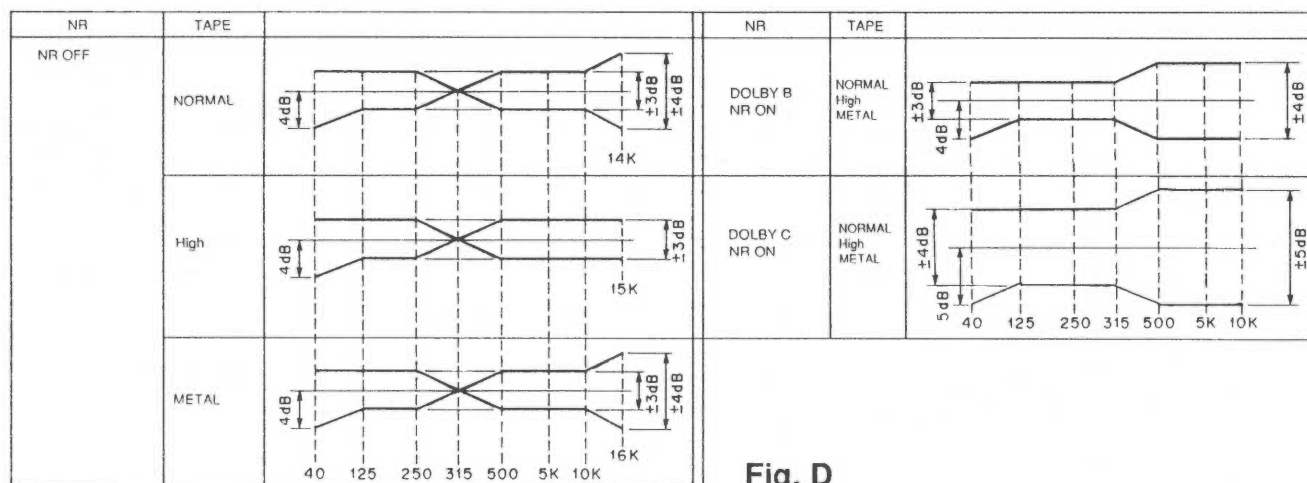
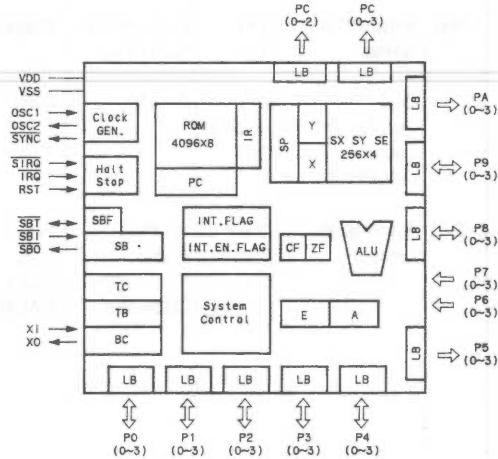
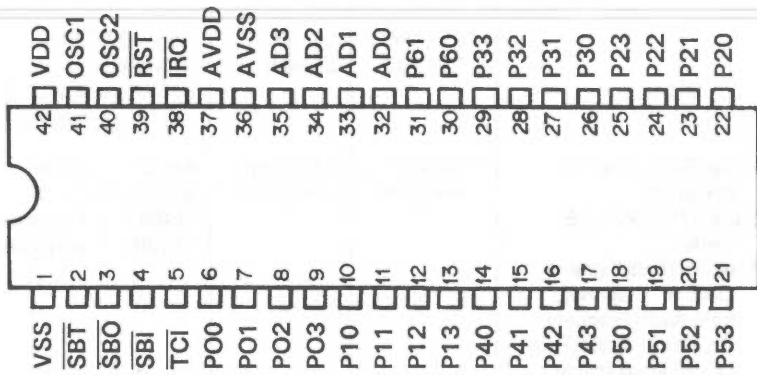


Fig. D

KX-260

μ-COM DATA(IC11:MN158481-YAG)

TOP VIEW



μ-COM PORT (MN158481-YAG)

PIN No.	PIN NAME	I/O	NAME	FUNCTION	LOGIC
1	VSS	I	GND	μ-COM GROUND	
2	SBT	※O			
3	SBO	※O			
4	SBI	※O	NC		
5	TCI	※O	NC		
6	PO0	※O	LED	REC	
7	PO1	※O		NORMAL	
8	PO2	※O		High (CrO ₂)	
9	PO3	※O		METAL	
10	P10	※O	AMP. SELECTOR	REC/PB	L: REC H: PB
11	P11	※O		REC BIAS	L: OFF H: ON
12	P12	※O		LINE MUTE	L: ON
13	P13	※O		REC MUTE	L: ON
14	P40	I	Remote control	PULSE INPUT (Receptor)	
15	P41	I	Music Sensor pulse	INTERNAL PULSE	L: MUSIC H: INTERNAL
16	P42	I			
17	P43	I	Reel pulse		
18	P50	O	AMP. SELECTOR	70μ	
19	P51	O		METAL	L: METAL TAPE
20	P52	O		High (CrO ₂)	L: CrO ₂ TAPE
21	P53	O		NORMAL	L: NORMAL TAPE
22	P20	I	MECHANISM SENSOR	70	L: 70μ H: OFF
23	P21	I		HS	L: CASSETTE IN H: OUT
24	P22	I		ME	L: METAL H: OFF
25	P23	I		RIF	L: REC OFF INHIBIT H: REC ON
26	P30	O	MECHANISM DRIVE	Solenoid	H: 6V , 12V
27	P31	O		Capstan motor	H: ON (Rotation)
28	P32	O		Reel motor (F)	H: FF
29	P33	O		Reel motor (R)	H: REW
30	P60	※O			
31	P61	※O			
32	AD0	※I	Reel pulse	REEL TABLE ROTATION PULSE INPUT	
33	AD1	※I	AUTO Mode		
34	AD2	※I	OPERATION KEY (A)	STOP, PLAY, MEMORY, FF, REW	"A/D INPUT PORT REFERENCE
35	AD3	※I	OPERATION KEY (B)	MUTE/SEARCH, INTRO F, INTRO R, REC/PAUSE, RESET	
36	AVSS	I	GND	A/D PORT GROUND	
37	AVDD	I	+5V	A/D PORT +5V	
38	IRQ	※I	POWER OFF SENSOR	INPUT HALF-WAVE RECTIFIER PULSE	
39	RST	※I	RESET	μ-COM RESET	L: RESET H: NORMAL
40	OSC2	O	CERA-LOCK 4MHz	CLOCK	
41	OSC1	I	CERA-LOCK 4 MHz	CLOCK	
42	VDD	I	+5V	μ-COM +5V	

● A/D INPUT PORT

For PIN 32 and PIN 33, the indicated voltage, which is the divisional voltage of the standard 5V with resistance, is detected when the corresponding key is pressed.

PIN No.	PIN NAME	I/O	NAME	※ 1 VOLTAGE AREA	※ 2 STANDARD VOLTAGE	
32	AD0	I				
33	AD1	I	AUTO FUNCTION SW			TIMER-REC
						TIMER-PLAY
						FULL-REPEAT
						PHRASE-REPEAT
						OFF
34	AD2	I	OPERATION KEY (A)	More than 4.37	5.0	NO KEY
				3.20-4.37	3.65	MEMORY
				2.02-3.20	2.73	FF
				1.08-2.02	1.79	REW
				0.38-1.08	0.90	PLAY
				Less than 0.38	0.0	STOP
35	AD3	I	OPERATION KEY (B)	More than 4.37	5.0	NO KEY
				3.20-4.37	3.65	REC/PAUSE
				2.02-3.20	2.73	MUTE/SEARCH
				1.08-2.02	1.79	INTRO F
				0.38-1.08	0.90	INTRO R
				Less than 0.38	0.0	

※ 1 The Voltage Area is when the Power Source is 5V, and it changes in proportion to the voltage.

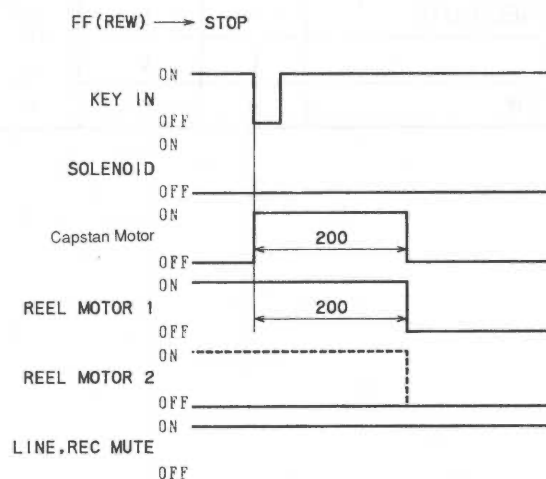
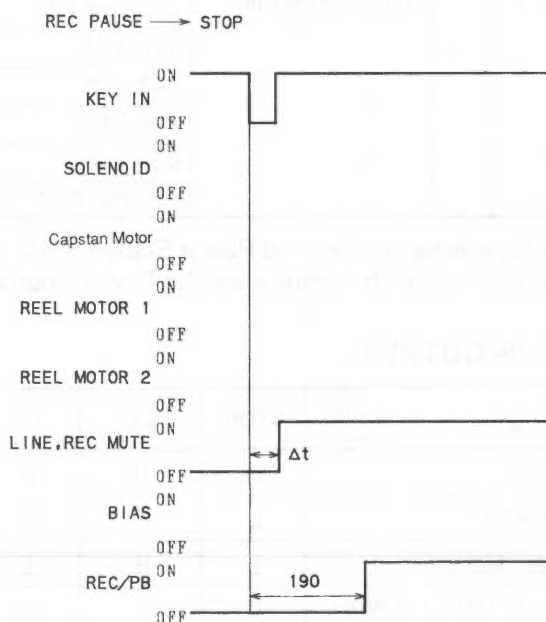
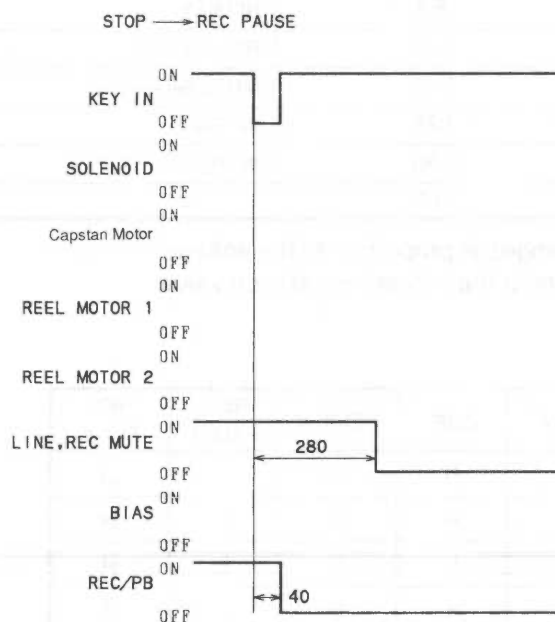
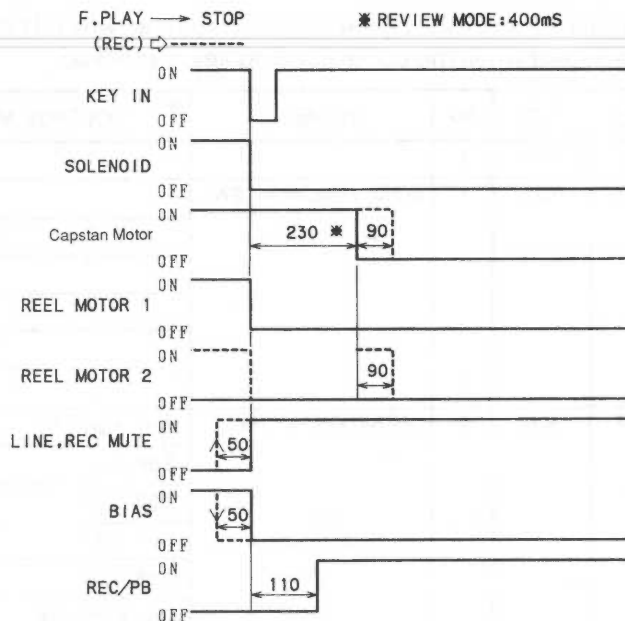
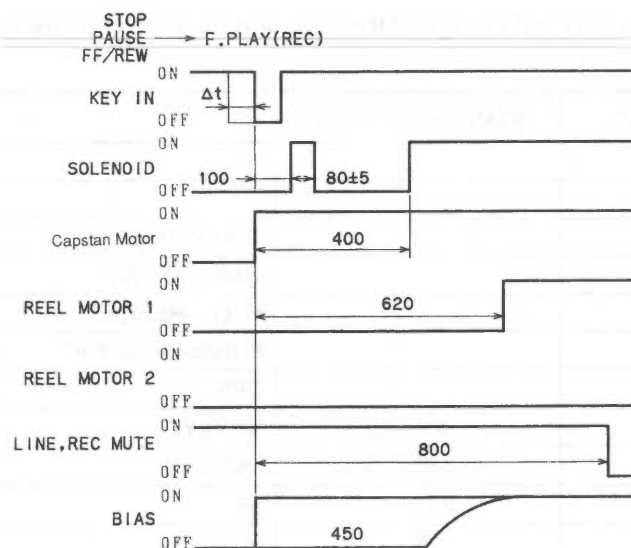
※ 2 Standard Voltage is the value when the Power Source is 5V under the present resistance value.

● MODE VS OUTPUT

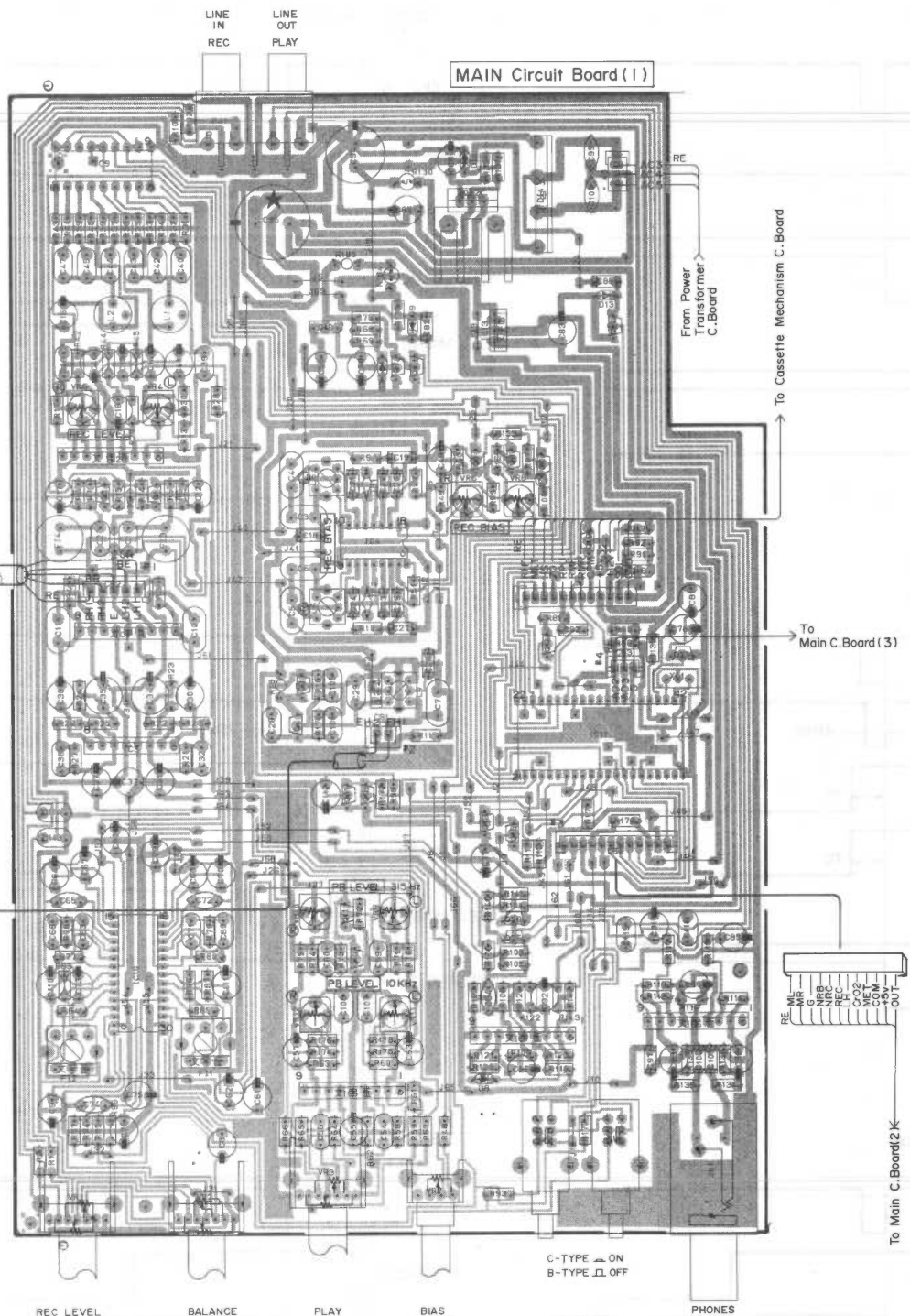
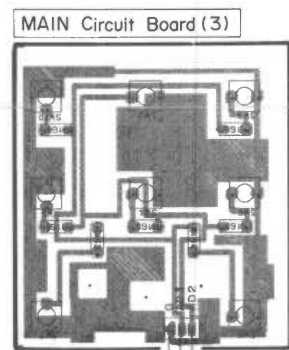
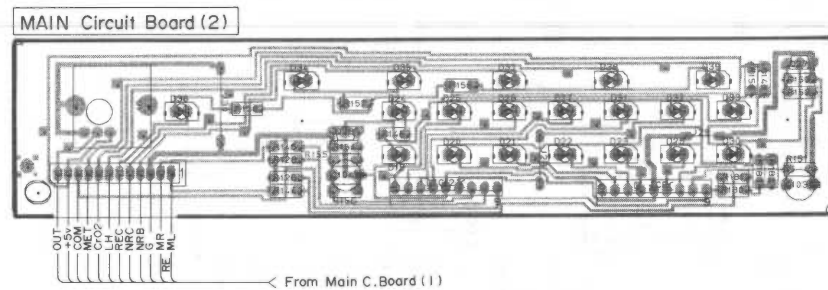
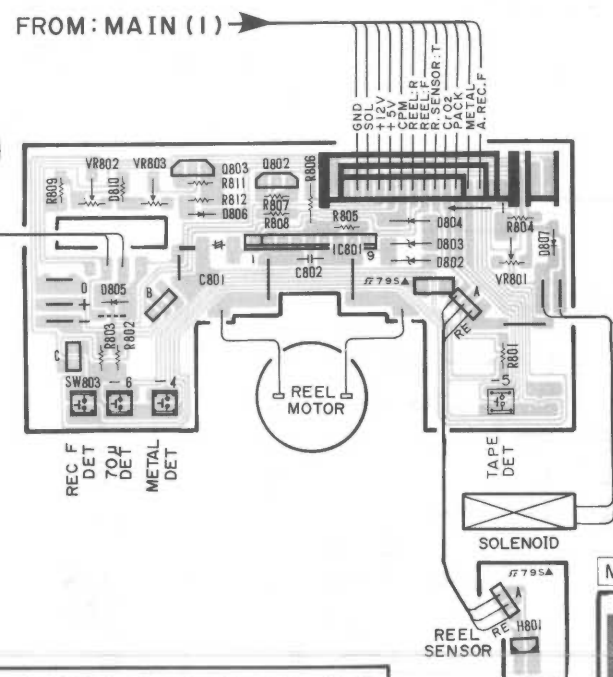
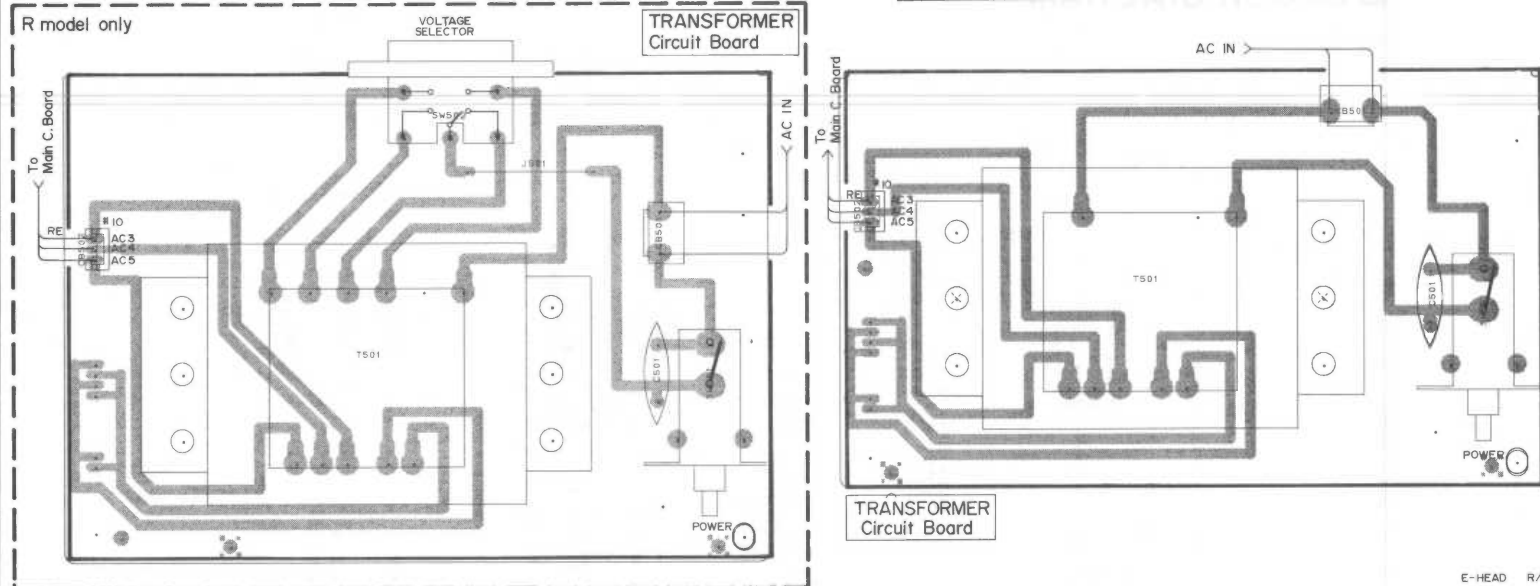
PIN No.	MODE OUTPUT PORT	STOP	PLAY	FF	REW	CUE	REVIEW	REC PAUSE	REC PLAY
34,35	KEY IN	H	H	H	H	H	H	H	H
26	SOLENOID	L	H	L	L	H	H	L	H
27	Capstan Motor	L	H	L	L	L	L	L	H
28	REEL MOTOR 1 (FWD)	L	H	H	L	H	L	L	H
29	REEL MOTOR 2 (REV)	L	L	L	H	L	H	L	L
12,13	LINE,REC MUTE	H	L	H	H	H	H	L	L
11	BIAS	L	L	L	L	L	L	L	H
10	REC/PB	H	H	H	H	H	H	L	L

TIMING CHART Δt : about 15~30msec(Delay from key input.)

* REVIEW MODE: 400mS



■ PRINTED CIRCUIT BOARD (Pattern side view) KX-260



●Component Location

Ref. No	Location
IC 1	F 3
IC 2	F 2
IC 3	F 3
IC 4	G 3
IC 5	G 5
IC 6	H 4
IC 7	H 4
IC 8	C 5
IC 9	F 1
IC 10	F 4
IC 11	H 3
IC 12	C 5
IC 13	H 2
Q 1	F 2
Q 2	F 2
Q 3	G 3
Q 4	G 3
Q 5	H 2
Q 8	H 2
Q 9	H 2
Q 10	G 2
Q 11	G 4
Q 12	G 4
Q 13	H 4
Q 14	H 3
Q 15	H 4
Q 16	H 3
Q 17	H 3
Q 18	G 3
Q 19	H 3
Q 20	H 3
Q 22	H 1
Q 23	G 2
Q 24	H 2
Q 25	H 4
Q 26	H 4
Q 27	D 5
Q 28	B 5
Q 31	G 3
D 3	G 2
D 8	H 4
D 9	G 2
D 10	H 1
D 13	H 2
D 14	H 1
D 19	B 5
D 20	C 5
D 21	C 5
D 22	C 5
D 23	C 5
D 24	B 5
D 25	C 5
D 26	C 5
D 27	C 5
D 29	C 5
D 30	D 5
D 31	C 5
D 32	C 5
D 33	D 5
D 34	B 5
D 35	B 5
D 36	B 5
D 37	C 5
D 38	C 5
D 39	C 5
VR 4	F 2
VR 5	F 2
VR 6	H 2
VR 8	H 2
VR 9	G 4
VR 10	G 4
VR 11	G 4
VR 12	G 4
IC 801	D 3
Q 802	C 3
Q 803	C 3
D 802	D 4
D 803	D 3
D 804	D 3
D 805	C 4
D 806	C 3
D 807	D 3
VR 801	D 4
VR 802	C 3
VR 803	C 3

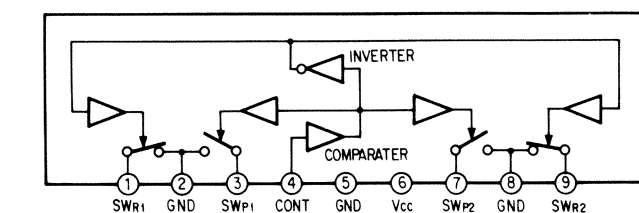
●Component Location

Ref. No	Location
IC 801	D 3
Q 802	C 3
Q 803	C 3
D 802	D 4
D 803	D 3
D 804	D 3
D 805	C 4
D 806	C 3
D 807	D 3
VR 801	D 4
VR 802	C 3
VR 803	C 3

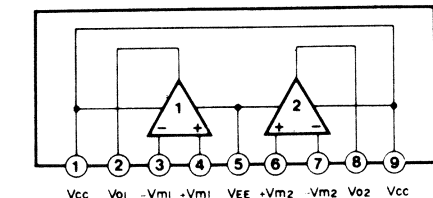
SCHEMATIC DIAGRAM KX-260

IC BLOCK

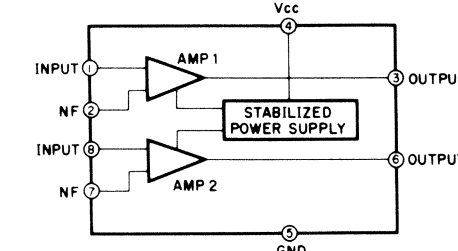
IC1: μ PC1330HA
(PB/REC Head Switch)



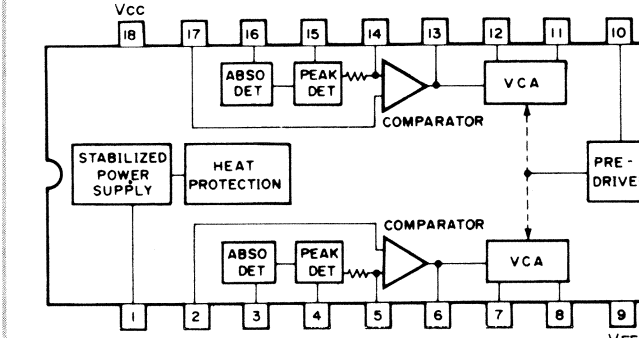
IC6: NJM4556S-A
IC2, 5, 7: NJM4558S, AN6551, BA715
(Dual Ope-amp.)



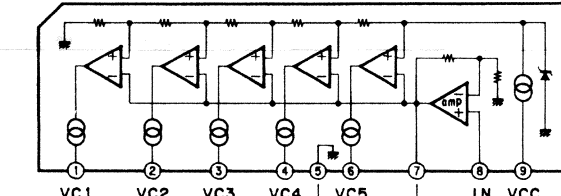
IC3: LA3161
(Pre Amp.)



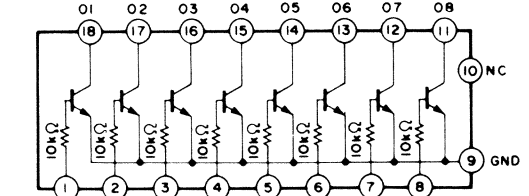
IC4: μ PC1297CA
(HX-PRO)



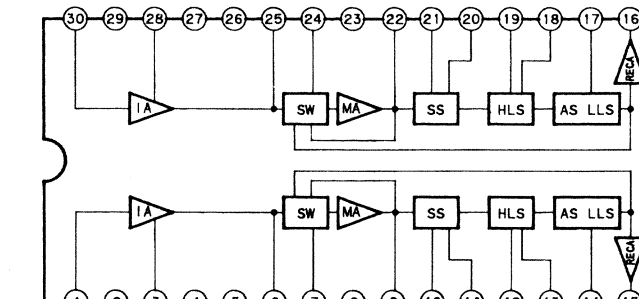
IC8, 12: LB1443N
(LED Driver)



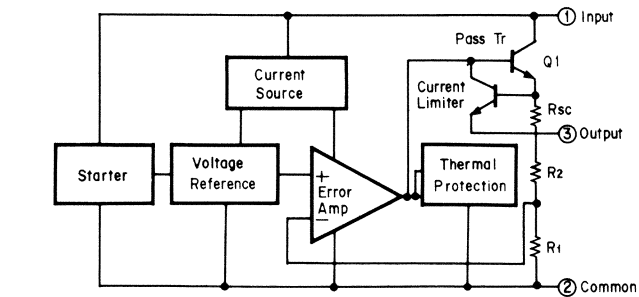
IC9: AN90B20
(Transistor Array)



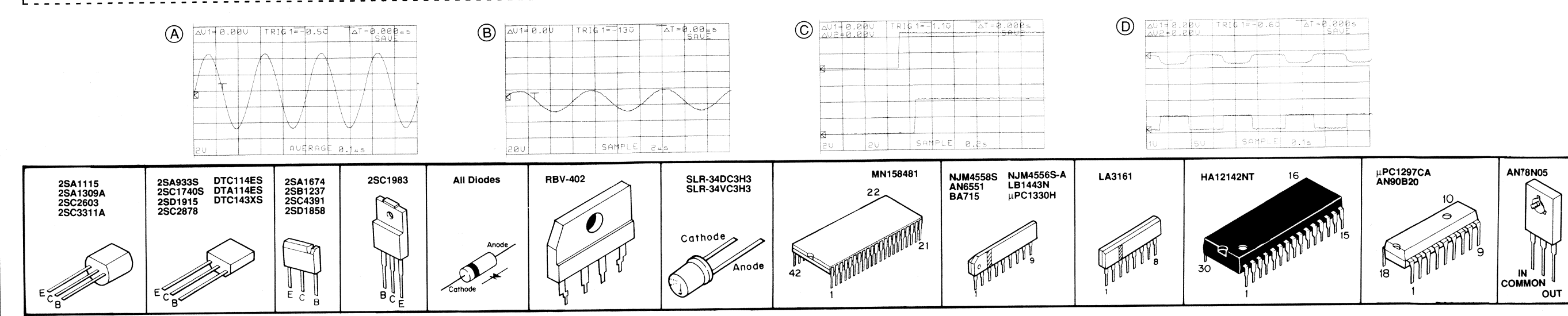
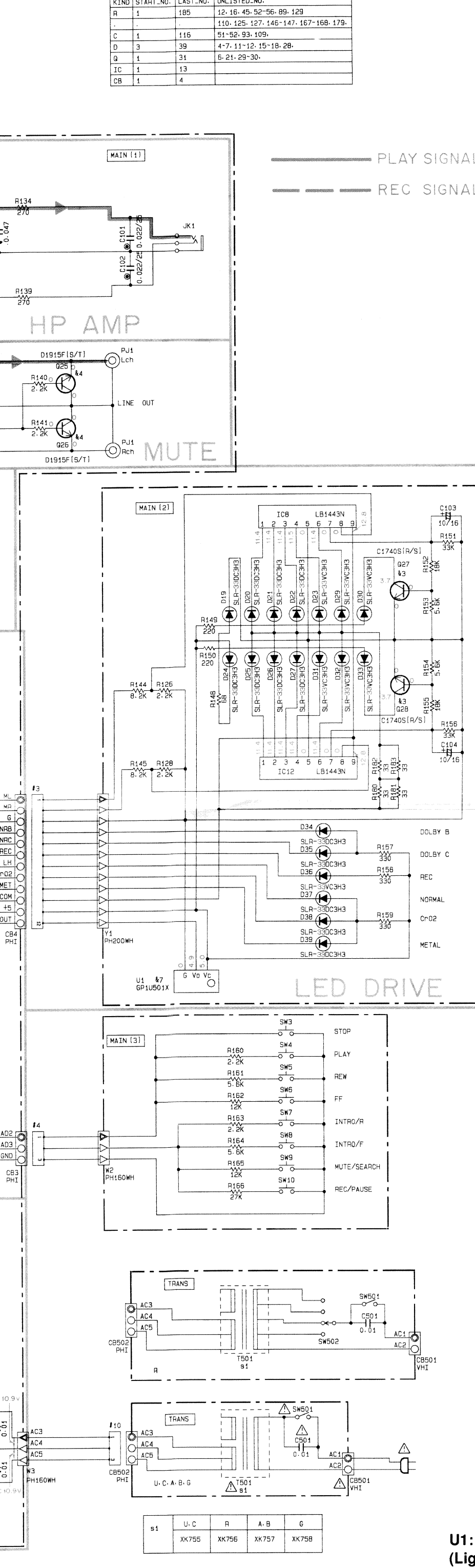
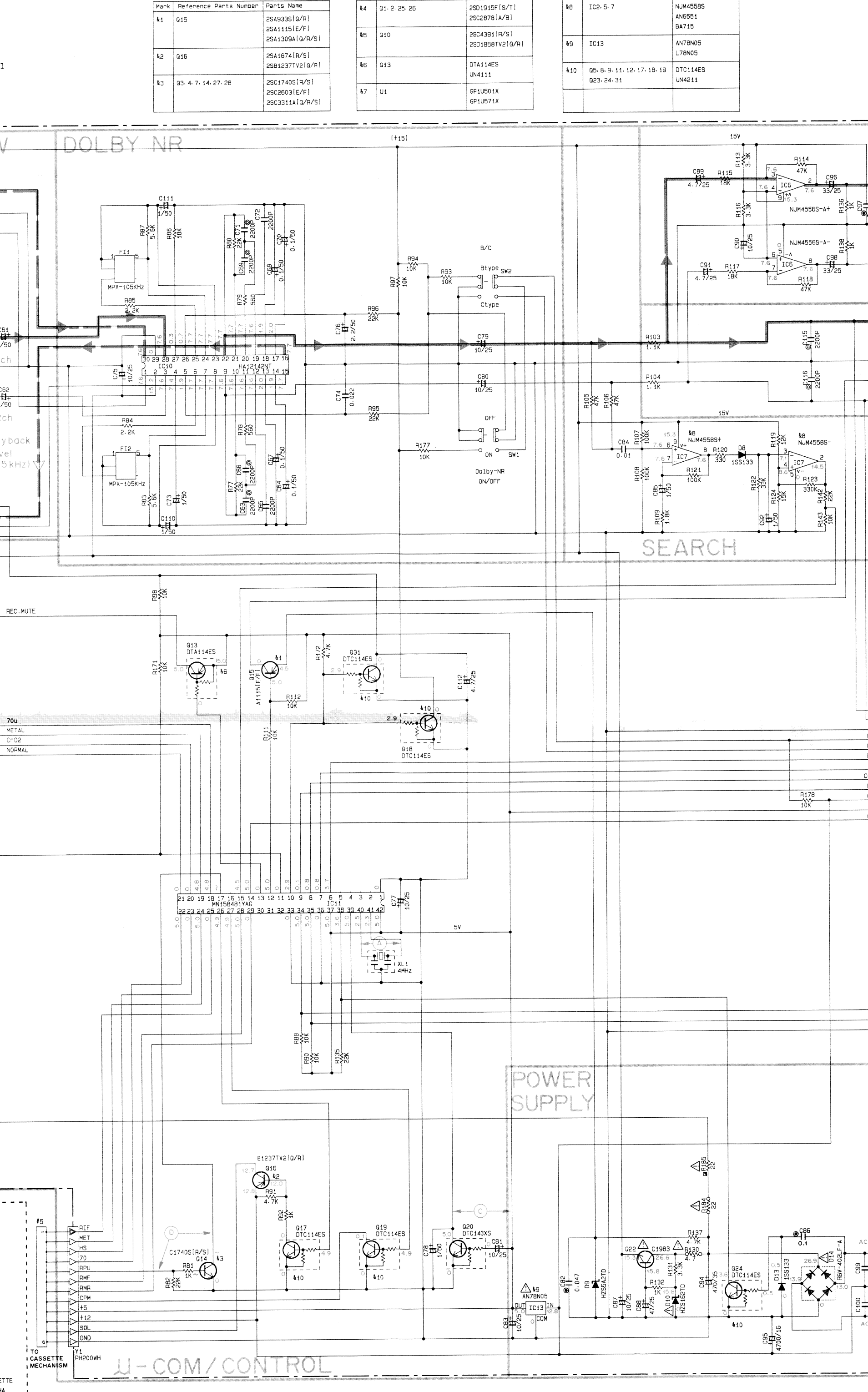
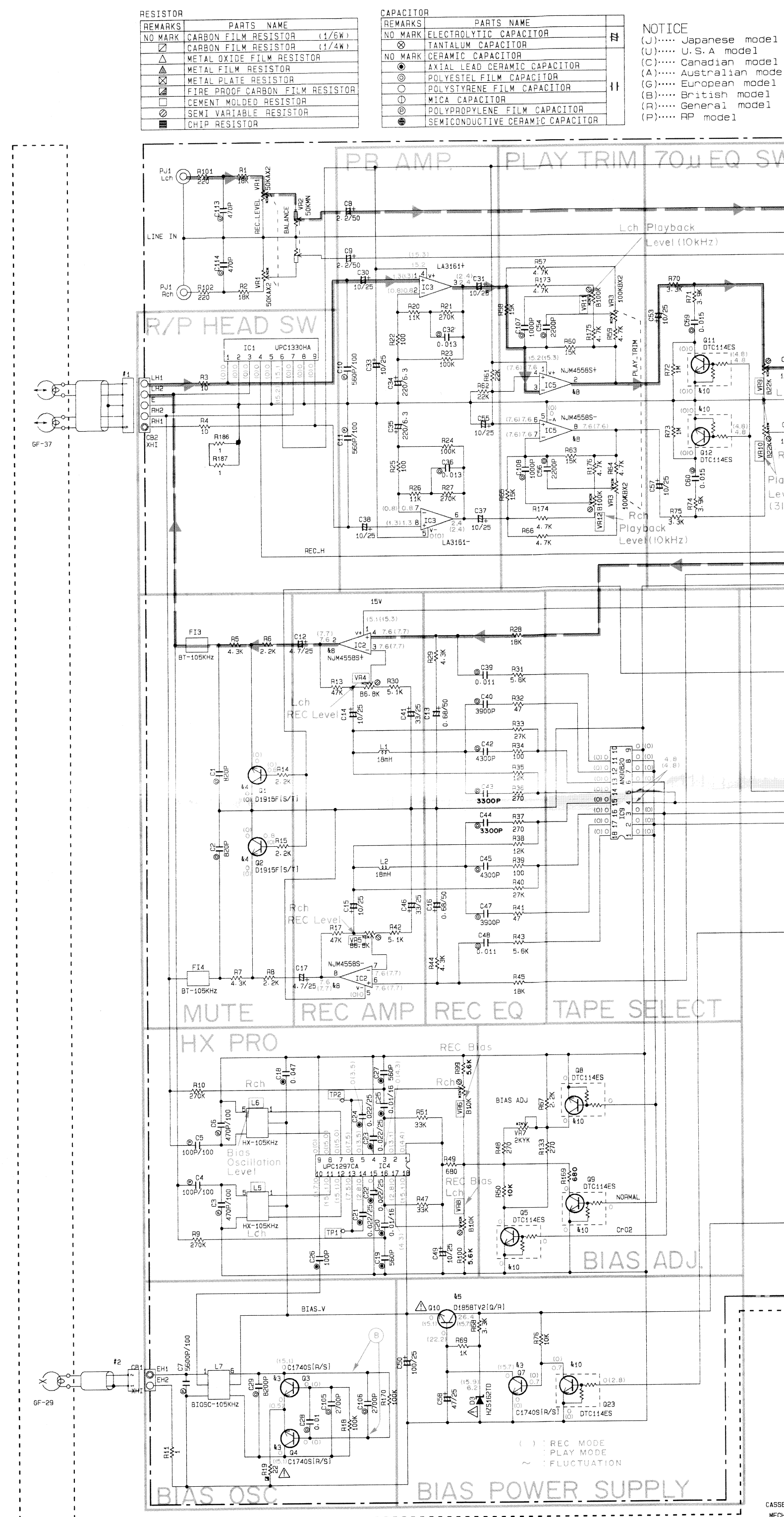
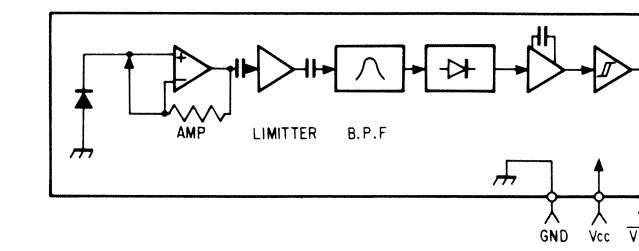
IC10: HA12142NT
(Dolby NR)



IC13: AN78N05
(+5V Regulator)



U1: GP1U501X (Custom Code --- 7F, 7A and 7E)
(Light Detecting Module: Remote Control Receiver)



SCHEMATIC DIAGRAM KX-360

REMARKS	PARTS NAME	REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/2W)	NO MARK	ELECTROLYTIC CAPACITOR
Δ	CARBON FILM RESISTOR (1/2W)	Δ	TANTALUM CAPACITOR
Δ	METAL OXIDE FILM RESISTOR	Δ	CERAMIC CAPACITOR
Δ	METAL FILM RESISTOR	Δ	AXIAL LEAD CERAMIC CAPACITOR
Δ	METAL PLATE RESISTOR	Δ	POLYESTER FILM CAPACITOR
Δ	FILM PROOF CARBON FILM RESISTOR	Δ	POLYSTYRENE FILM CAPACITOR
Δ	CEMENT MOLDED RESISTOR	Δ	MICA CAPACITOR
Δ	SEMI VARIABLE RESISTOR	Δ	POLYPROPYLENE FILM CAPACITOR
Δ	CHIP RESISTOR	Δ	SEMICONDUCTIVE CERAMIC CAPACITOR

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

Mark	Reference Parts Number	Parts Name
A1	927	25A939S(U/P)
A2	917	25A110S(U/P)
A3	93-4-14	25A1309A(U/P/S)
A4	91-2-29-30-203-204	25A1674R(S)
		25C1740S(U/P)
		25C2678S(U/P)
		25C2878A(S)

Mark	Reference Parts Number	Parts Name
A5	926-13	25C4391S(U/S)
A6	912-15-16-23	25C1899V(U/S/P)
A7	1C3-6-13	DTA114ES
A8	1C11	LA3161
		NJM4558S
		AN6551
		BA715
		AN78N05
		L78N05

Mark	Reference Parts Number	Parts Name
A9	927-8-9-18-19-20-25	DTA114ES
A10	U301	GP1U521X
		GP1U521X

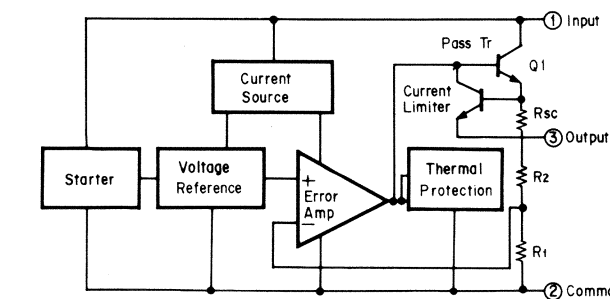
MAIN	START	LAST	UNLISTED NO.
R	1	224	38-69-89-91-126-140-147-150-157
C	1	208	162-200-222
D	2	280	19-61-26-91-111-114-119-200-205
E	2	280	3-4-18-205
F	1	204	22-26-31-200
G	1	15	2-4-7-14
H	1	5	3

LCD	START	LAST	UNLISTED NO.
R	301	316	
G	301	304	
D	301	301	
E	301	301	
I	301	301	
O	301	301	
S	301	301	

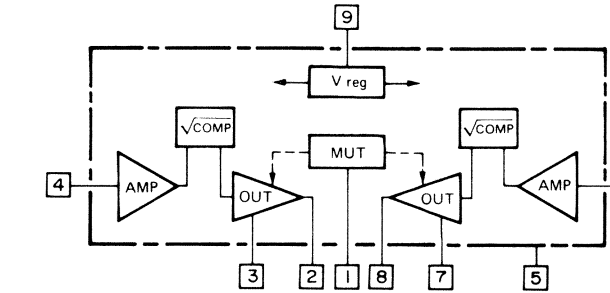
POWER	START	LAST	UNLISTED NO.
C	501	501	
CB	501	503	

IC BLOCK

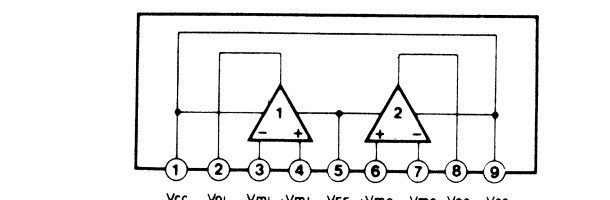
IC11: AN78N05, L78N05
(+5 V Regulator)



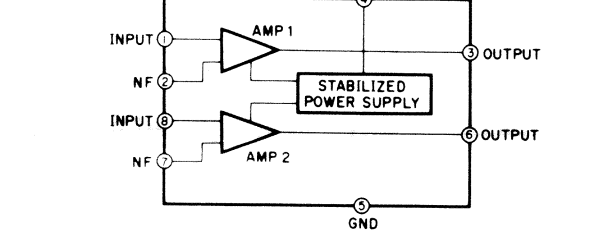
IC12: BA6138
(12W Power of Compressor Amp.)



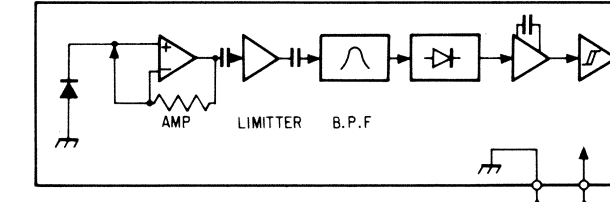
IC3, 6, 13: NJM4558S, AN6551, BA715
IC15: NJM4556S-A
(Dual Ope-amp.)



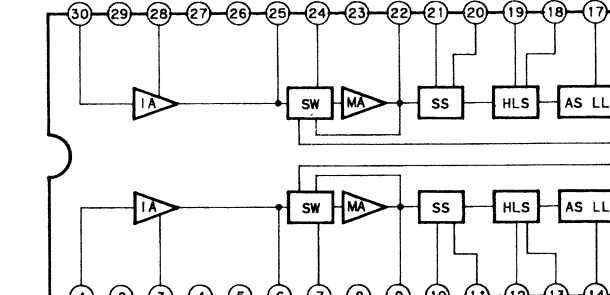
IC1: LA3161
(Pre Amp.)



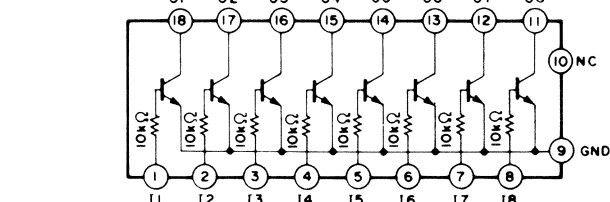
U1: GP1U521X (Custom Code --- 7F, 7A and 7E)
(Light Detecting Module: Remote Control Receiver)



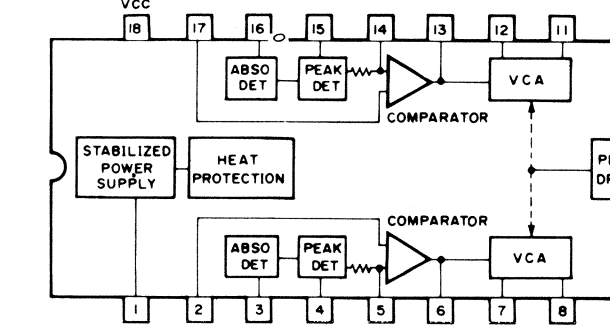
IC9: HA12142NT
(Dolby NR)



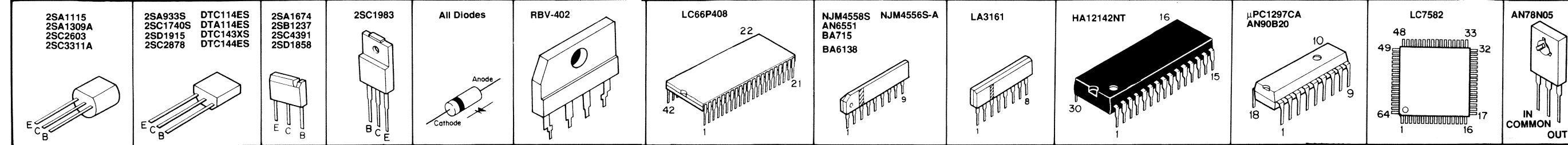
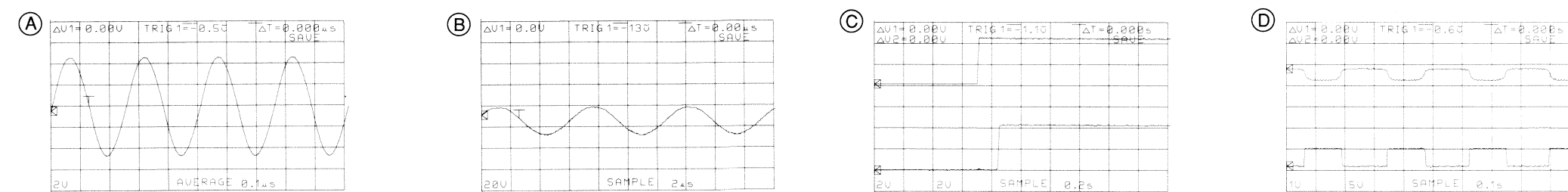
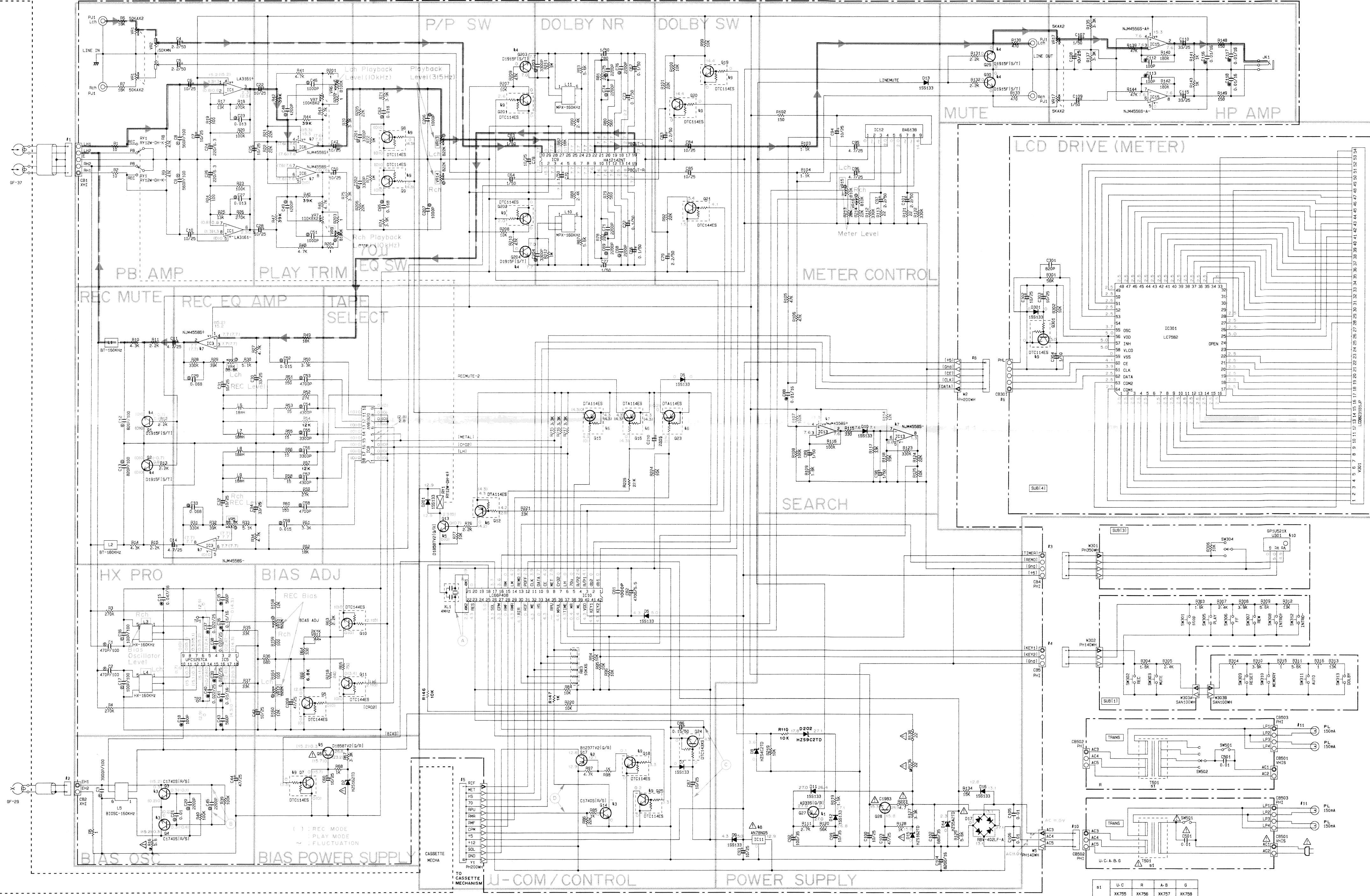
IC8: AN90B20
(Transistor Array)



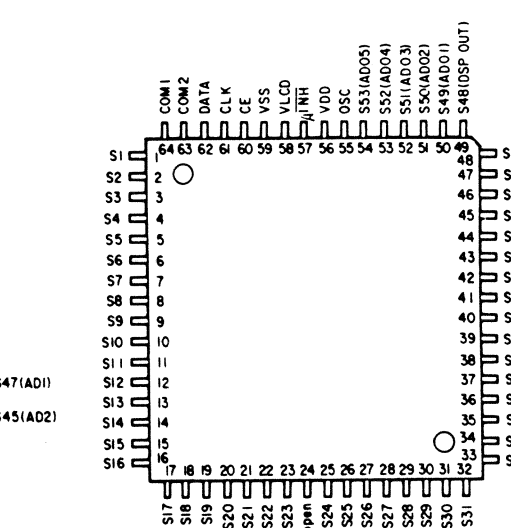
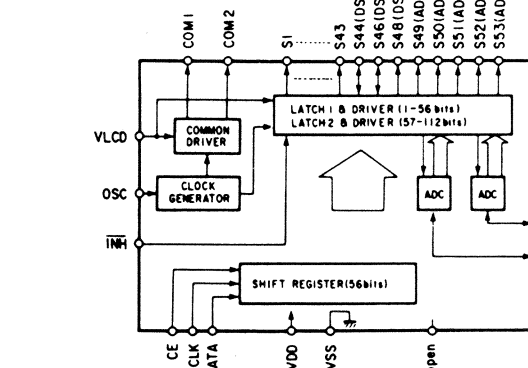
IC5: μPC1297CA
(HX-PRO)



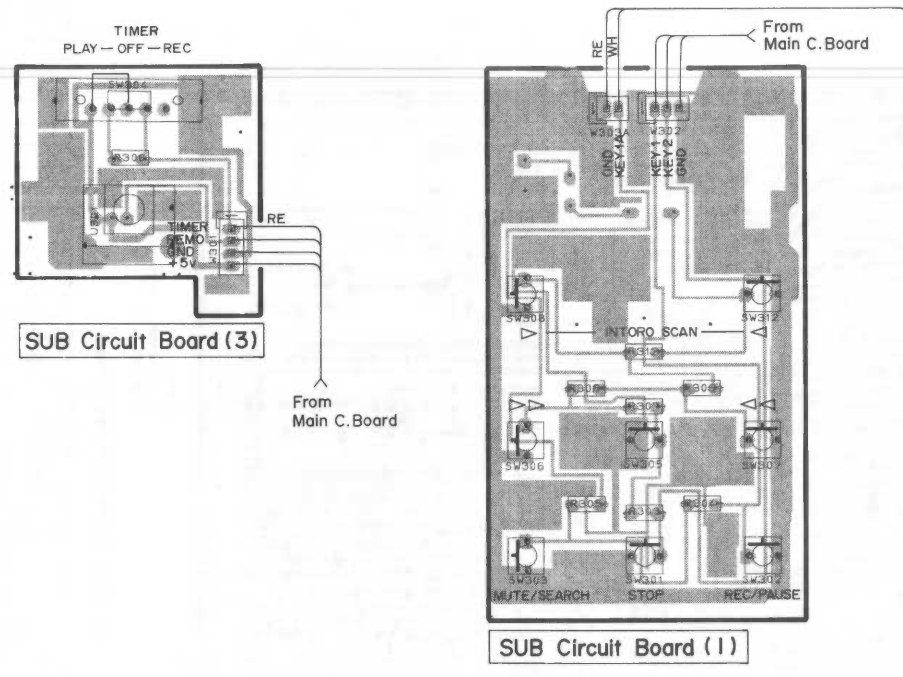
CAUTION
• Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
• All voltages are measured with a 10MΩ/V DC electric volt meter.
• Schematic diagram is subject to change without notice.



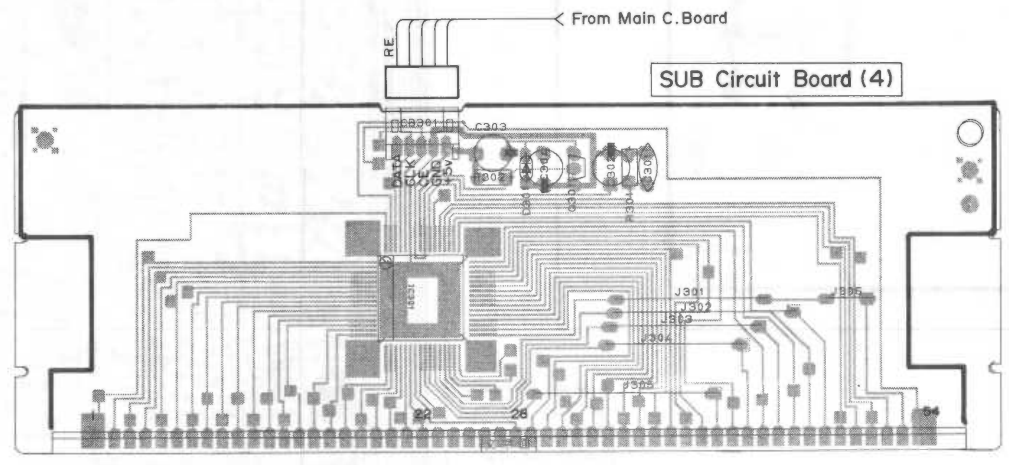
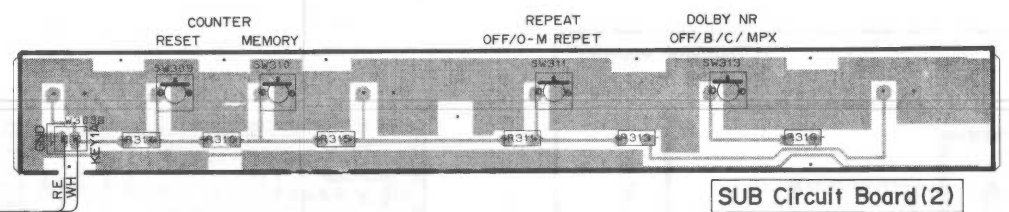
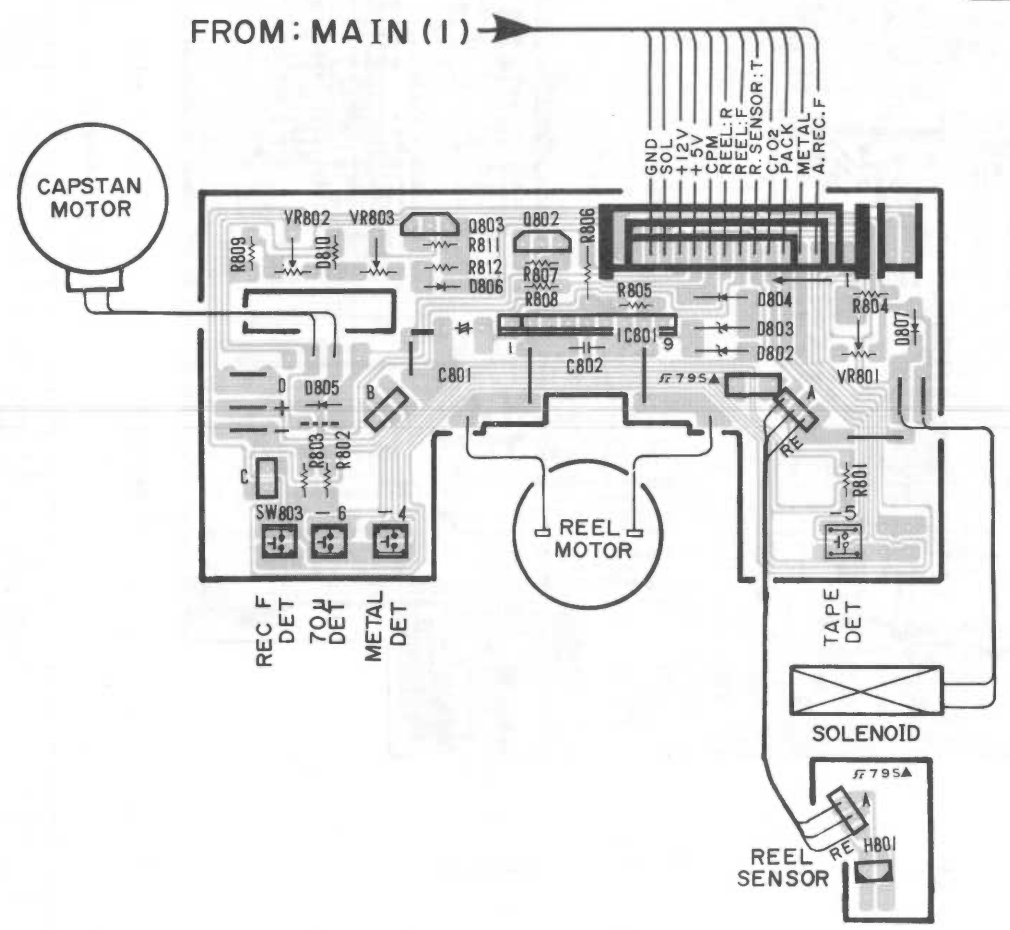
IC301: LC7582
(LCD Driver)



■ PRINTED CIRCUIT BOARD (Pattern side view) **KX-360**



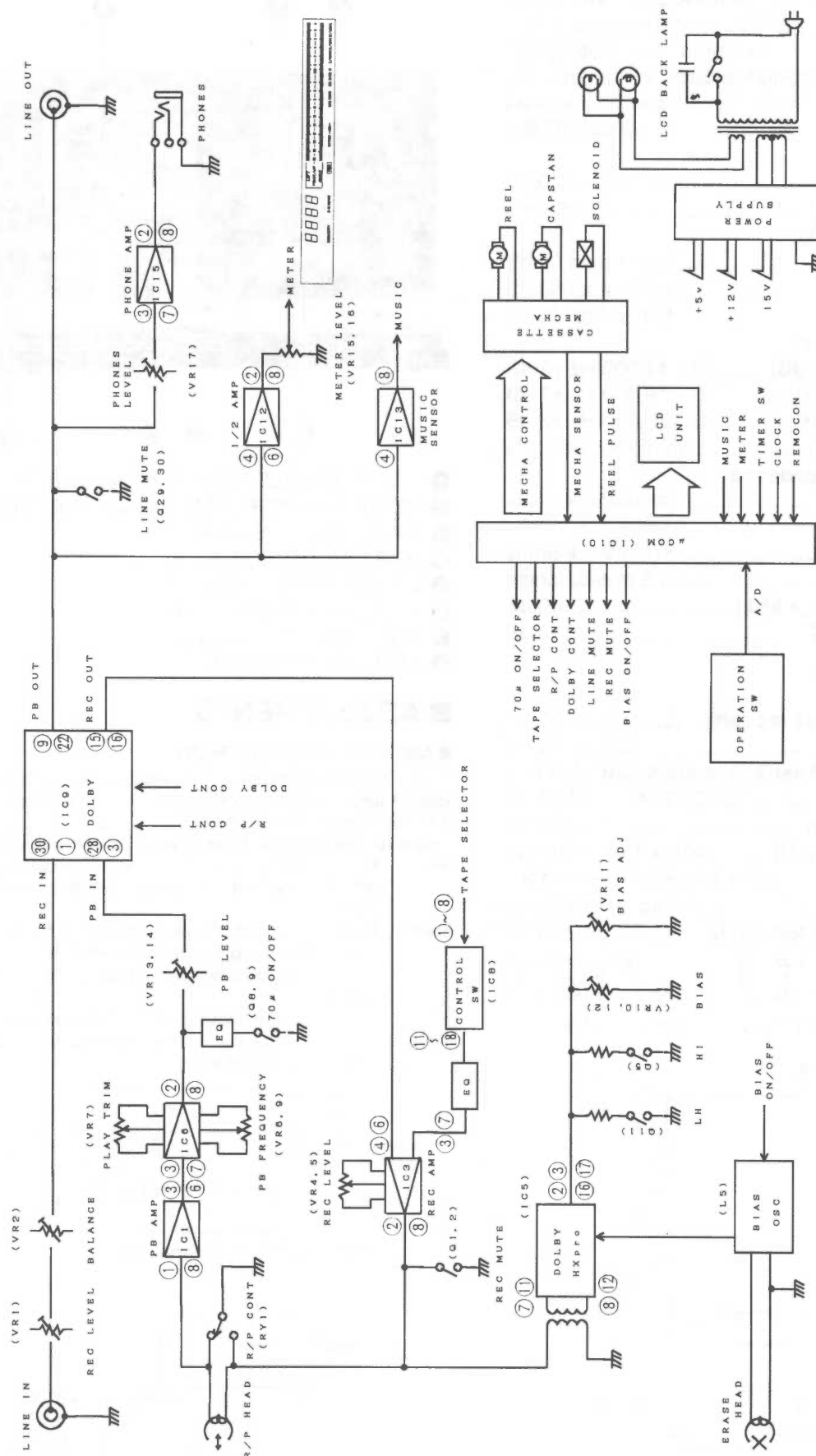
Cassette Mecha Board



●Component Location

Ref. No	Location
IC 301	E 3
Q 301	F 3
D 301	F 3
IC 801	C 5
Q 802	C 5
Q 803	B 5
D 802	C 5
D 803	C 5
D 804	C 5
D 805	B 5
D 806	B 5
D 807	D 5
VR801	D 5
VR802	B 5
VR803	B 5

■ BLOCK DIAGRAM



SPECIFICATIONS

Track Configuration	4 track, 2 channel stereo
Motor	DC servo motor (capstan) Flat torque DC motor (reel)
Heads	Recording/Playback: Hard permalloy Erase: Double-gap Ferrite head
Rapid Transport	90 sec. (C-60)
Wow and Flutter	
WRMS	0.05%
W.Peak	±0.08%
Signal-to-Noise Ratio	
Dolby NR off	better than 60 dB
Dolby B on	better than 68 dB
Dolby C on	better than 76 dB
Frequency Response	
Normal tape (-20 dB)	20 - 17,000 Hz ±3 dB
High tape (-20 dB)	20 - 19,000 Hz ±3 dB
Metal tape (-20 dB)	20 - 20,000 Hz ±3 dB
Harmonic Distortion	No more than 0.8%
Input Sensitivity/Impedance	
Line	100 mV/50 k-ohms
Output Level	
Line	570 mV/1 k-ohms
Phones	1.5 mW/52 ohms
Channel Separation (1 kHz)	40 dB
Cross Talk (125 Hz)	55 dB

GENERAL

Power Supplies

U.S.A. and Canada models	120 V, 60 Hz
Europe model	230 V, 50 Hz
U.K. model and Australia models	240 V, 50 Hz
General model	110/120/220/240 V, 50/60 Hz

Power Consumption 16 W

Dimensions (W x H x D) 435 x 131 x 283 mm
(17-1/8" x 5-3/16" x 11-1/8")

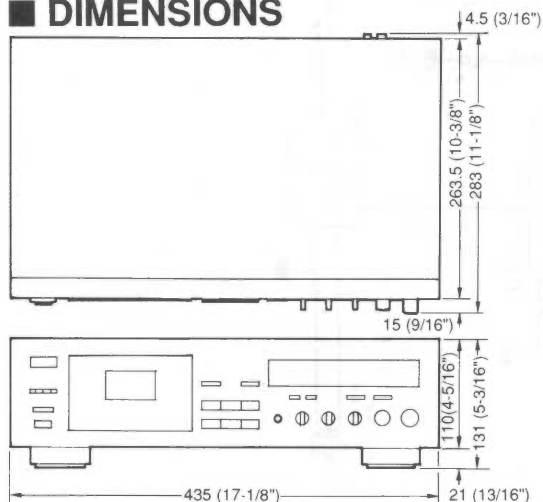
Weight 4.8 kg (10 lbs. 9 oz)

Remote Control Custom Code 7F, 7A and 7E

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

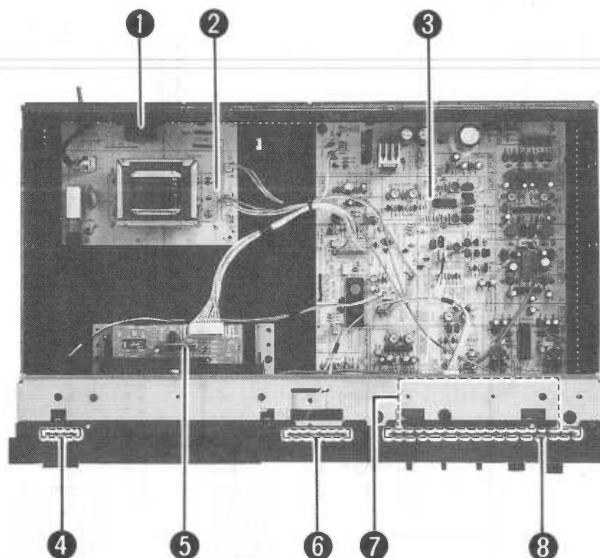
* Specifications subject to change without notice.

DIMENSIONS



unit: mm (inch)

INTERNAL VIEW



- 1 VOLTAGE SELECTOR (R model only)
- 2 POWER TRANSFORMER CIRCUIT BOARD
- 3 MAIN CIRCUIT BOARD
- 4 SUB CIRCUIT BOARD (3)
- 5 CASSETTE MECHANISM UNIT
- 6 SUB CIRCUIT BOARD (1)
- 7 SUB CIRCUIT BOARD (4)
- 8 SUB CIRCUIT BOARD (2)

ADJUSTMENTS

MECHANISM ADJUSTMENT

Note: The damper must be removed before you perform steps 1 and 2 of the procedure, because the torque meter is hidden behind the damper (Fig.a).

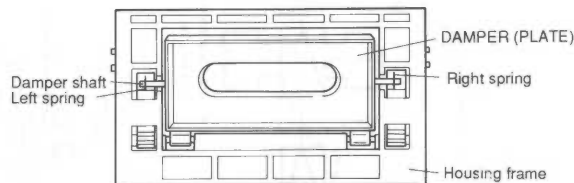
* **How to remove the damper from the housing ass'y.**

Step 1. Pinch strongly the points A and B indicated in Fig.b with fingers, and the damper can be removed from the shaft.

Step 2. Remove the leftside spring (shown in Fig.b) from the shaft, moving it toward the left direction with a screw driver or a tweezer (leaving the rightside spring as it is).

Step 3. Take out the damper, pulling it toward you.

Step 4. To put the damper in the original position, perform steps 1 to 3 backward.



The lid panel is removed

Fig.a

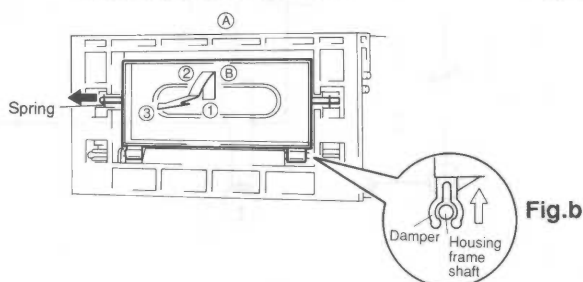


Fig.b

1. Before Adjustment:

- Make sure that AC line voltage is within:

Models	AC line voltage
U, C	120 V $\pm$ 10%
G	230 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-2111A (TX911580): FWD. Torque & Back Tension Torque
CT160L (TX911120): FF. Torque & REW. Torque
- DCVM

3. Test tape required

- MTT-111N (TX911650): Tape Speed (3 kHz)
- MTT-114N (TX911680): Azimuth (10 kHz)
- MTT-212N (TX911660): Playback Level (250 nWb/m)
- MTT-256 (TX911300): Playback Frequency Response (Normal)
- MTT-356 (TX911310): Playback Frequency Response (High)
- Reference tape
Normal (LH) : TDK AC224 (TX912190)
High (CrO₂) : TDK SA-60 or TDK AC513 (TX911610)
METAL : TDK AC712 (TX911590)

4. Internal LCD test mode

To test all the LCD, press the POWER button while pressing the RESET key. All the LCD lights. The Meter 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.

● MECHANISM ADJUSTMENT

0 dB=250 nWb/m (315 Hz) = -5 dBV (Line out terminal level)

Step	Item to be Adjusted	Tape	Instrument required	Mode	Adjustment part	Rating	Remarks
1	Check each torque		Torque meter TW-2111A CT160L	PLAY FF REW		Take-up torque: 25 g·cm~60g·cm Back tension: 1.5g·cm~6g·cm FF, REW torque: more than 70g·cm	
2	Check FF, REW take up times	AC-224 C-60				Less than 90 $\pm$ 15 seconds	
3	Azimuth	MTT-114N (10 kHz -10 dB)	ACVM Oscilloscope	PLAY	Azimuth adjustment screw. (Fig. A)	Playback level (monaural output) is maximum and phase difference should be minimum.	After the adjustment make sure to apply screw lock paint.
4	Tape speed	MTT-111N 3 kHz, -10 dB	Wow/flutter meter or Frequency counter	PLAY	Potentiometer at the back of the capstan motor. (Fig. B)	3000 Hz $\pm$ 15 Hz	• Perform adjustment at the position where the test tape is advanced/rewound to the middle if possible.
5	Wow/flutter	MTT-111N 3 kHz, -10 dB	Wow/flutter meter	PLAY		Less than 0.14% (JIS W. RMS)	

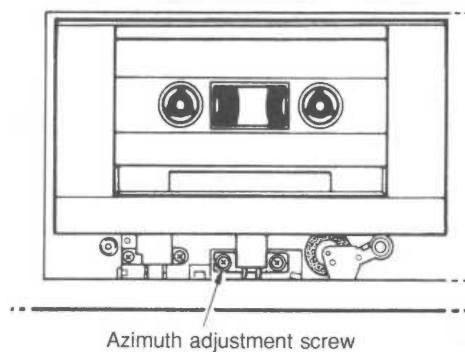


Fig. A

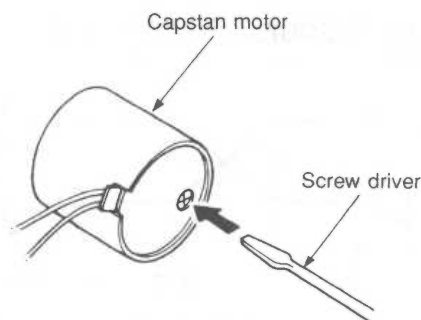
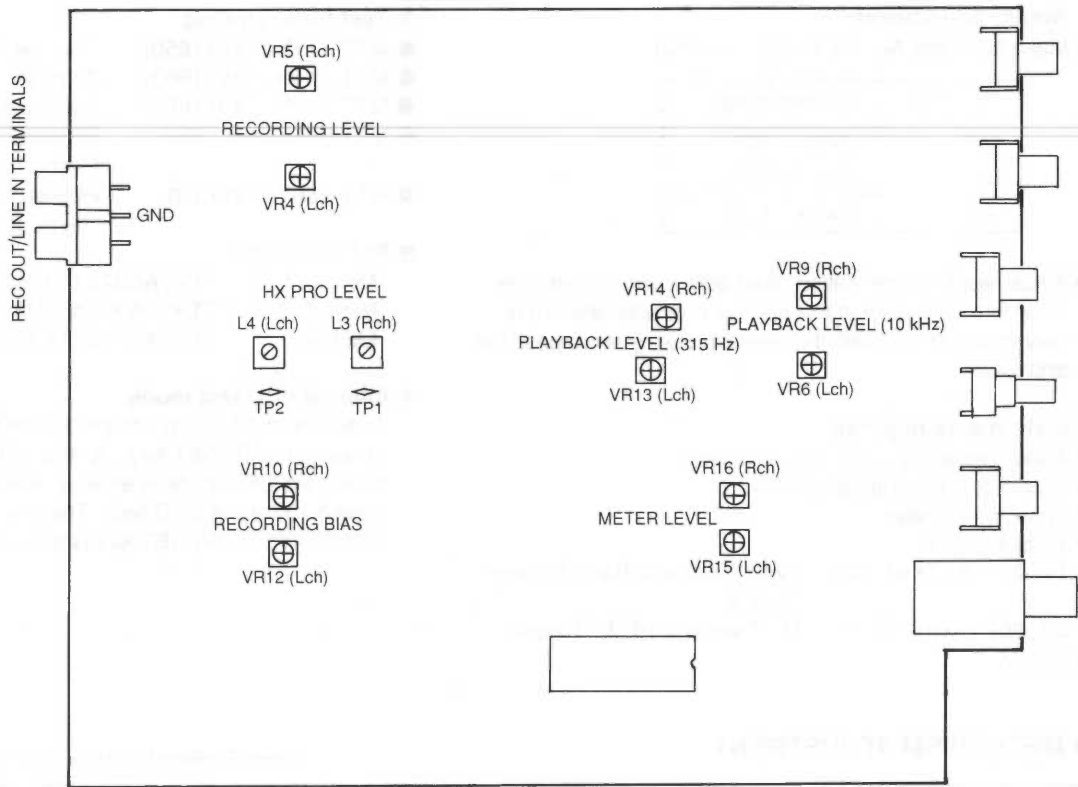


Fig. B

KX-360

● TEST POINT



● ELECTRIC ADJUSTMENT

* Standard level of this machine is that 250 nwb/m is 0 dB. (−5 dBV at LINE OUT)

● PLAYBACK ADJUSTMENT

Step	Adjustment Items	Tape	Instrument Required	Mode	Adjustment Part	Point of Measurement	Adjustment Method	Specification
1	Playback Level (315 Hz)	MTT-212N (0 dB)	ACVM	PLAY	VR13 (Lch) VR14 (Rch)	LINE OUT	When MTT-212N is played back, adjust VR so that Output Level becomes the specified Value.	−5 dBV
2	Playback EQ Level (10 kHz)	MTT-114N (10 kHz, −10 dB)	ACVM	PLAY	VR6 (Lch) VR9 (Rch)	LINE OUT	When MTT-114N is played back, adjust VR so that Output Level becomes the specified Value.	−15 dBV
3	Confirmation of Playback Frequency Response	MTT-256 (Normal: 3180 μs + 120 μs) MTT-356 (High: 3180 μs + 70 μs)	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 ±4 dB

● PLAYBACK FREQUENCY RESPONSE

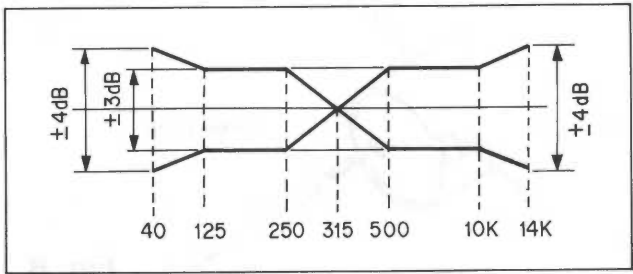


Fig. C

● RECORDING ADJUSTMENT

(BIAS ADJ. VR and PLAY TRIM VR Center position, if not specified otherwise)

Step	Adjustment Items	Test Tape	Instrument Required	Mode	Adjustment Terms Point	Measuremet Point	Adjustment	Rating
1	Meter Level	Normal (AC224) (LH)	ACVM Audio Frequency Oscillator	REC/ PAUSE PEAK HOLD OFF	1. Set LCD Test mode to meter peak hold OFF. 2. Set REC LEVEL to maximum. 3. Input 315 Hz Signal to LINE IN TERMINAL from Audio Frequency Oscillator. Adjust output level of Audio Frequency Oscillator so that the level of LINE OUT TERMINAL becomes -5 dBV.	Peak Level Meter	VR15 (Lch) VR16 (Rch)	Adjust VR to the minimum level where 0 dB segment (red) of peak level meter lights up.
2	Bias Oscillation Level (HX PRO)	HIGH (AC513) (CrO ₂)	DCVM	REC PLAY		TP1-GND TP2-GND	L3 (Rch) L4 (Lch)	Connect DCVM between each TP-GND and adjust L3 and L4 to minimum.
3	Recording Level	HIGH (AC513) (CrO ₂)	ACVM Audio Frequency Oscillator	REC PLAY and PLAY-BACK	1. Set REC LEVEL to maximum. 2. Enter REC/PAUSE mode. 3. Input 315 Hz Signal to LINE IN TERMINAL from Audio Frequency Oscillator. Adjust REC LEVEL knob so that level of LINE OUT TERMINAL becomes -25 dBV. 4. Record the above-mentioned signal. 5. Playback the recorded tape.	LINE OUT TERMINAL	VR4 (Lch) VR5 (Rch)	Adjust VR, so that level of LINE OUT TERMINAL becomes -25 dBV at playback.
4	Recording Bias	Normal (LH) High (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 14 kHz signals to LINE IN TERMINAL from Audio Frequency Oscillator. Adjust the level of LINE OUT TERMINAL so that the level becomes -25 dBV. 4. Record the above-mentioned signal. 5. Playback the recorded tape.	LINE OUT TERMINAL	VR12 (Lch) VR10 (Rch)	Adjust VR so that the level of LINE OUT TERMINAL satisfies Fig. D when a tape, recorded at -25 dBV at each frequency, is played back.

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● TOTAL FREQUENCY RESPONSE (-25dBV)

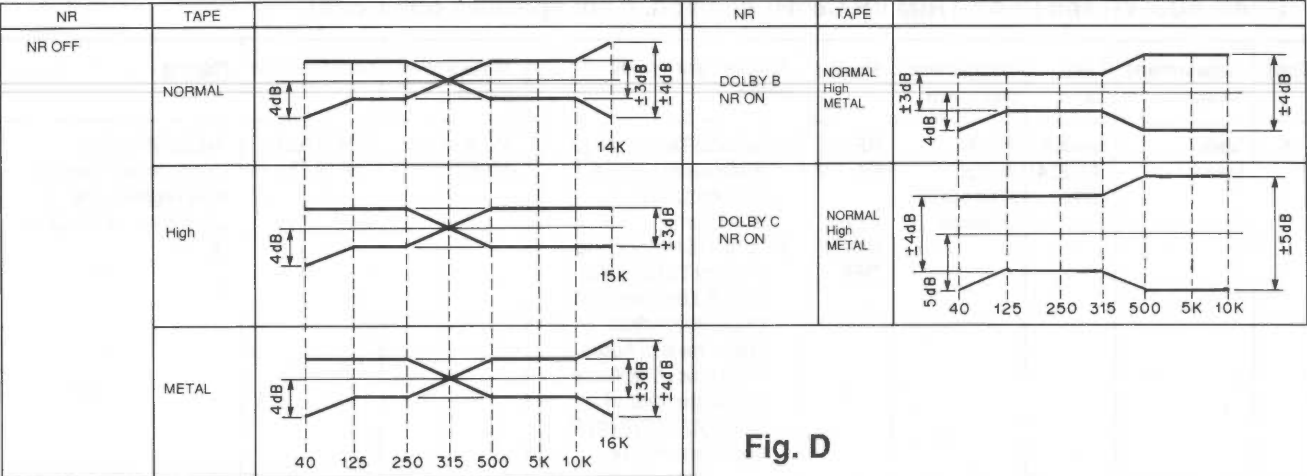
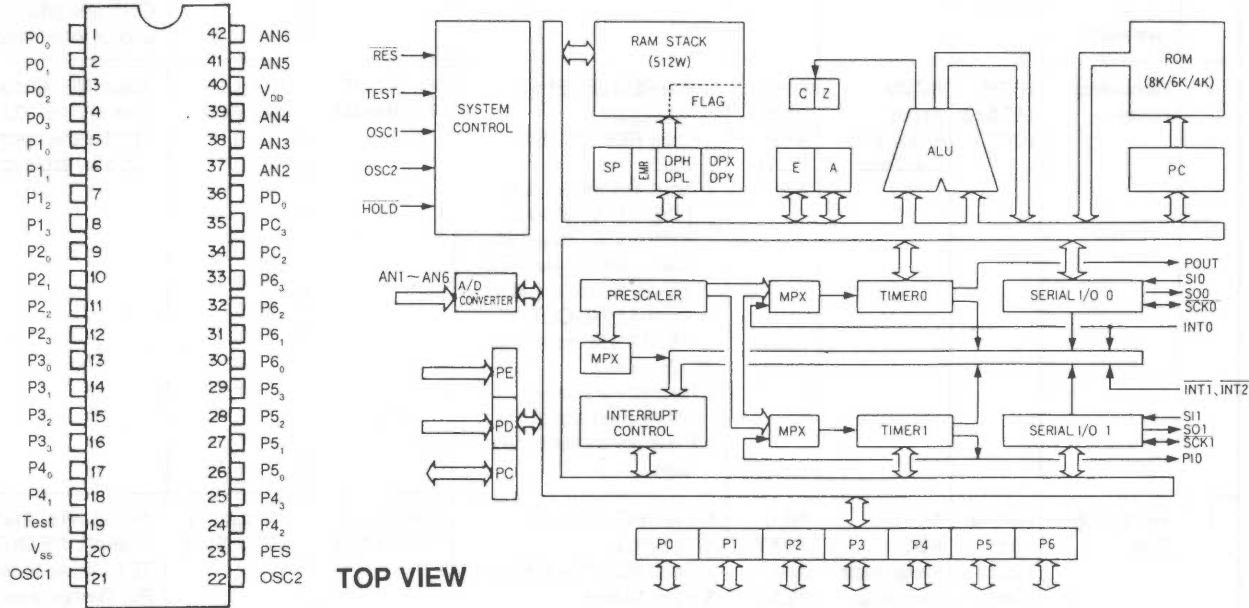


Fig. D

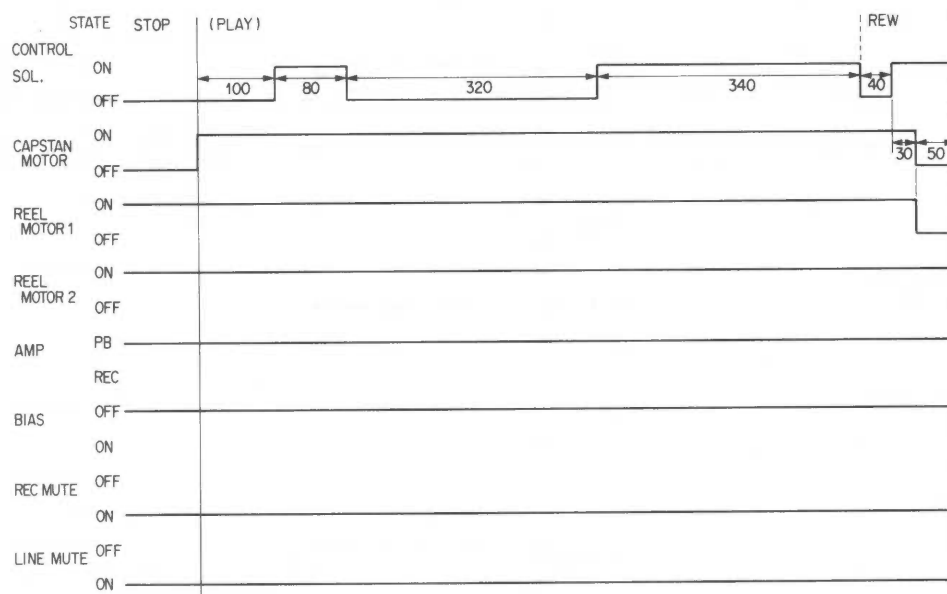
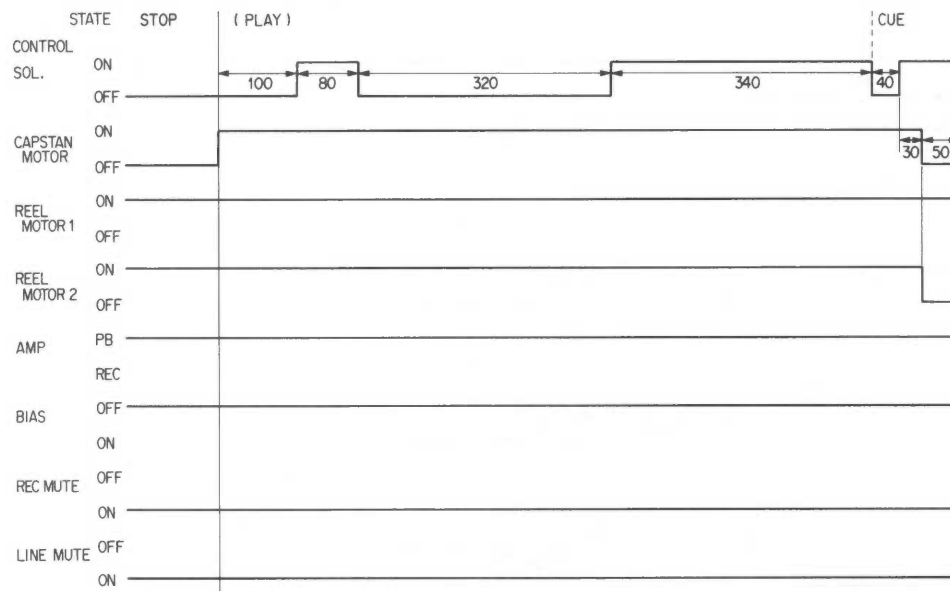
■ μ-COM DATA (IC10: LC66404A-4948)



● μ-COM PORT (LC66404A)

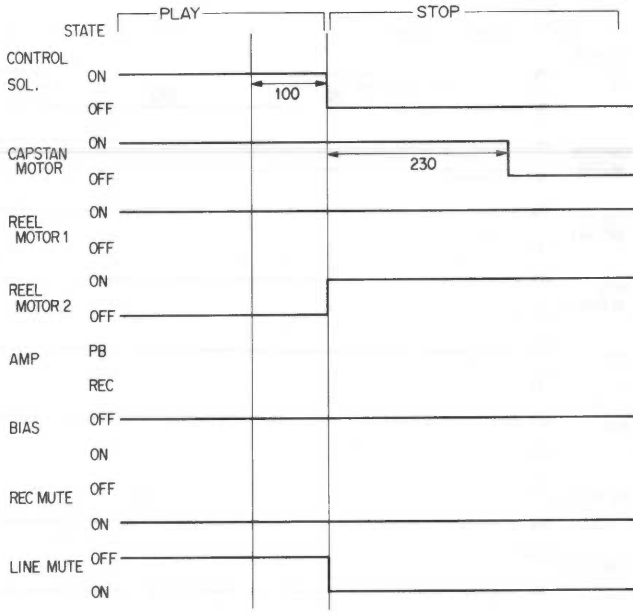
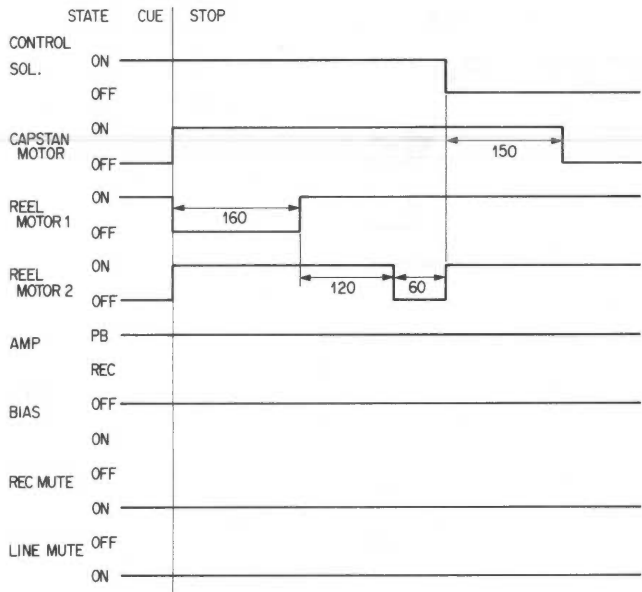
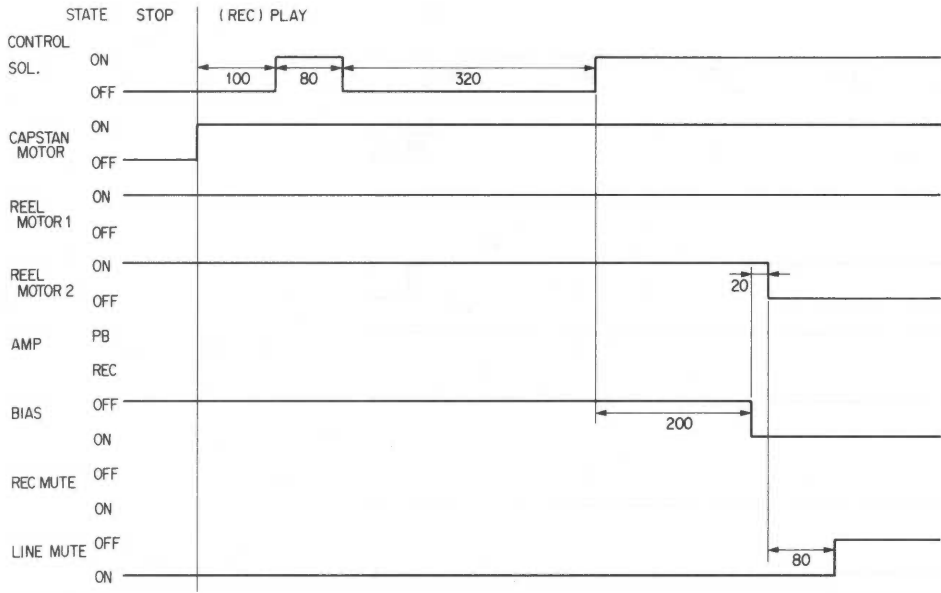
NO	PORT	I/O	FUNCTION	LOGIC	OPTION	NO	PORT	I/O	FUNCTION	LOGIC	OPTION
1	P00	O	Dolby OFF/B/C	H/L/L	PU	22	OSC2		4 MHz		
2	P01	O	Dolby OFF/B/C	L/H/L	PU	23	RES	I	RESET		
3	P02	O	PB/REC/MPX	H/L/L	PU	24	P42				
4	P03	O	PB/REC/MPX	H/H/L	PU	25	P43	I		H→360	OD
5	P10	O	70μ	L→ON	OD	26	P50	O	Solenoid	H→ON	PU
6	P11	O	Tape Select (LH) Normal	H→ON	OD	27	P51	O	Capstan Motor	H→ON	PU
7	P12	O	HIGH	H→ON	OD	28	P52	O	Reel Motor (L)		PU
8	P13	O	METAL	H→ON	OD	29	P53	O	Reel Motor (R)		PU
9	P20	O	LCD CE		CMOS	30	P60	I		L→ON	OD
10	P21	O	DATA		CMOS	31	P61	I		L→ON	OD
11	P22	O	CLK		CMOS	32	P62	I		L→ON	OD
12	P23	I	Power Pulse		OD	33	P63	I		L→ON	OD
13	P30	I	Remote Control		OD	34	PC2	I	MECHA SW 70μ	L→ON	OD
14	P31	O	LINE MUTE	L→ON	PU	35	PC3	I	REEL PULSE		OD
15	P32	O	REC MUTE	L→ON	OD	36	PD0	I	MUSIC PULSE		
16	P33	I	BACK UP RETURN			37	AN2	I	TIMER SW	A/D	
17	P40	O	BIAS ON/OFF	L→ON	PU	38	AN3	I	METER (R)	A/D	
18	P41	I	Leader Tape Sensor	H:Magnet	OD	39	AN4	I	METER (L)	A/D	
19	TEST					40	VDD		+4.4 V		
20	Vss		Gnd			41	AN5	I	KEY 2 (TO REC key)	A/D	
21	OSC1		4 MHz			42	AN6	I	KEY 1 (TO STOP key)	A/D	

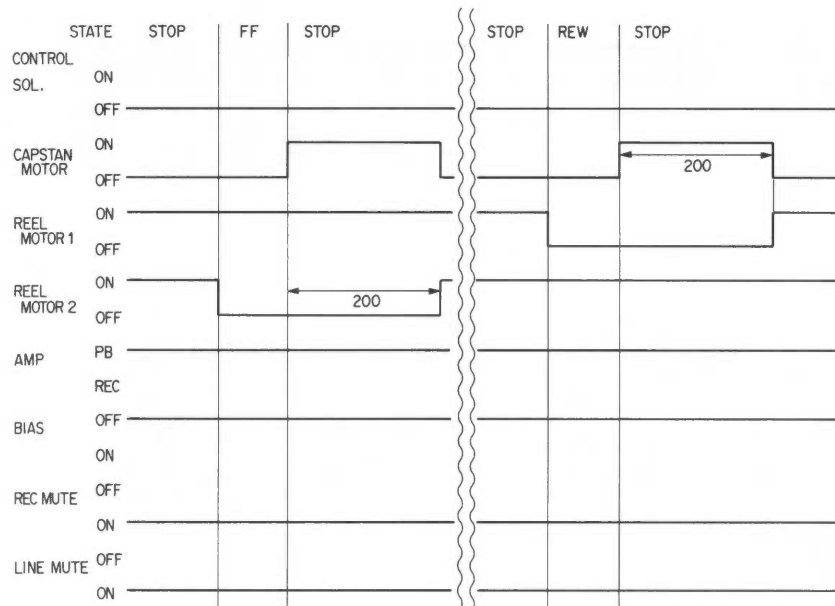
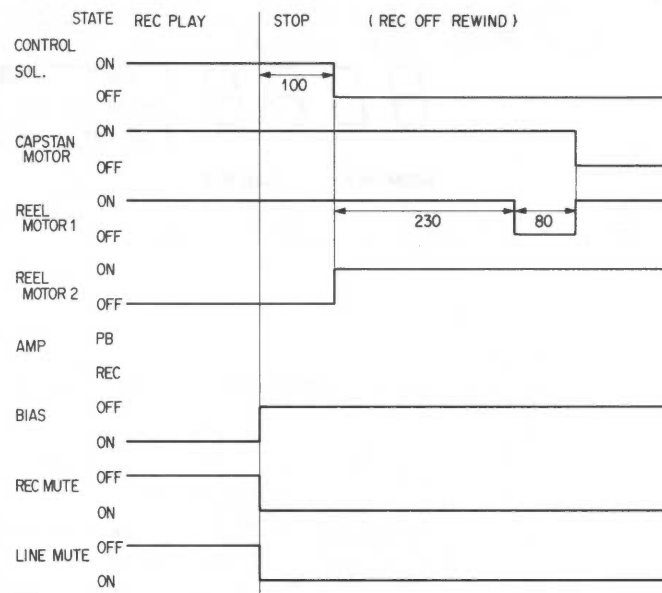
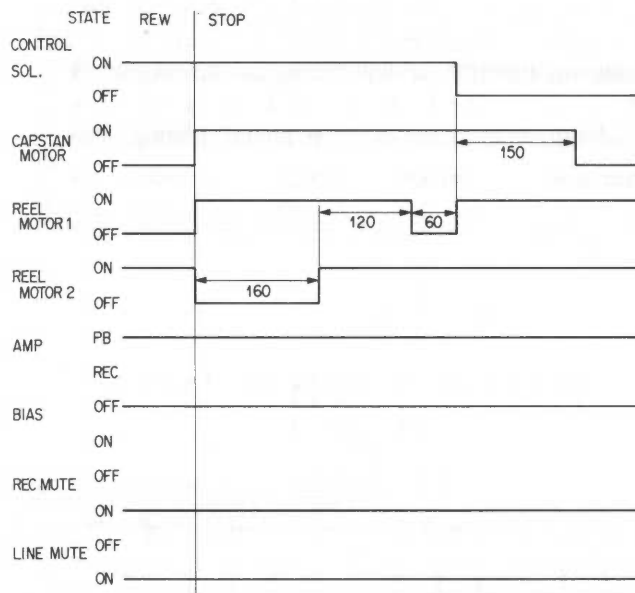
■ TIMING CHART



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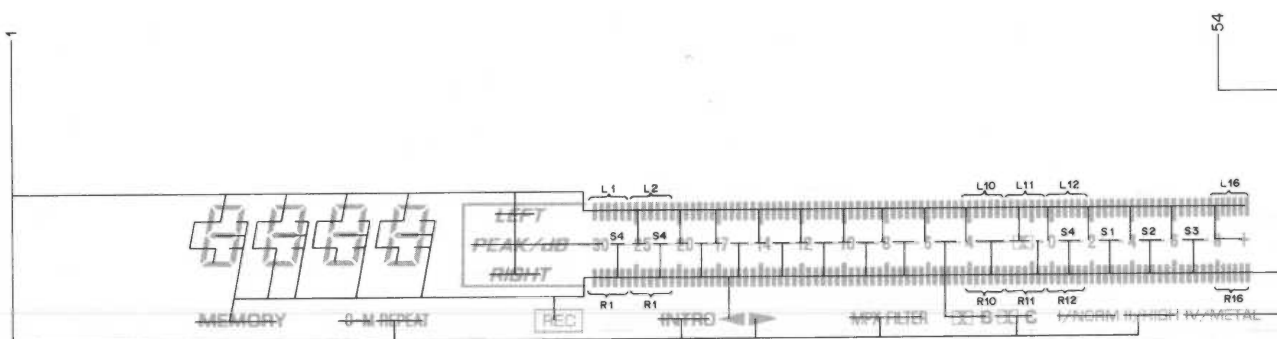
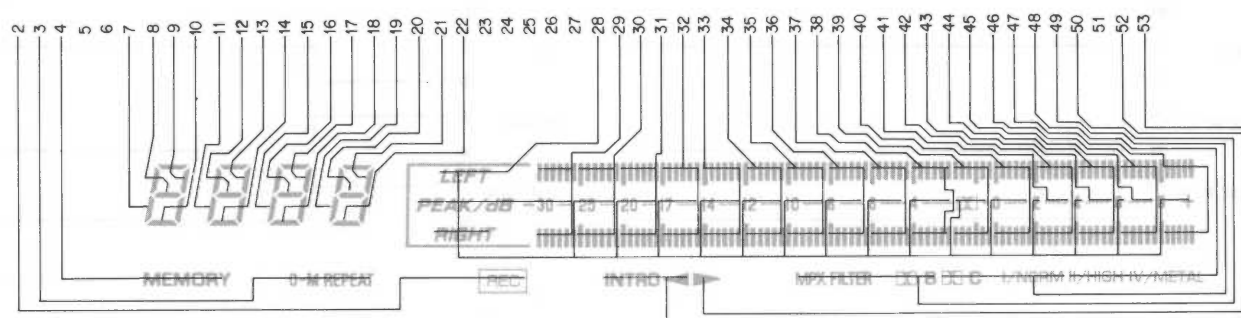
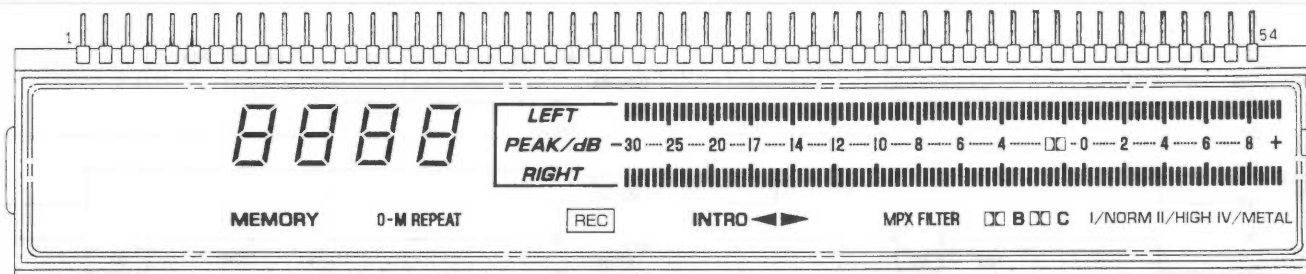
TRANS DUWIT





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■ DISPLAY PIN CONNECTIONS



NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
COM1	COM	—	REPEAT	—	—	—	1e	1f	1a	1d	2e	2f	2a	2d	3e	3f	3a	3d	4e	4f
COM2	—	REC	O-M	MEMORY	—	—	—	1g	1b	1c	—	2g	2b	2c	—	3g	3b	3c	—	4g

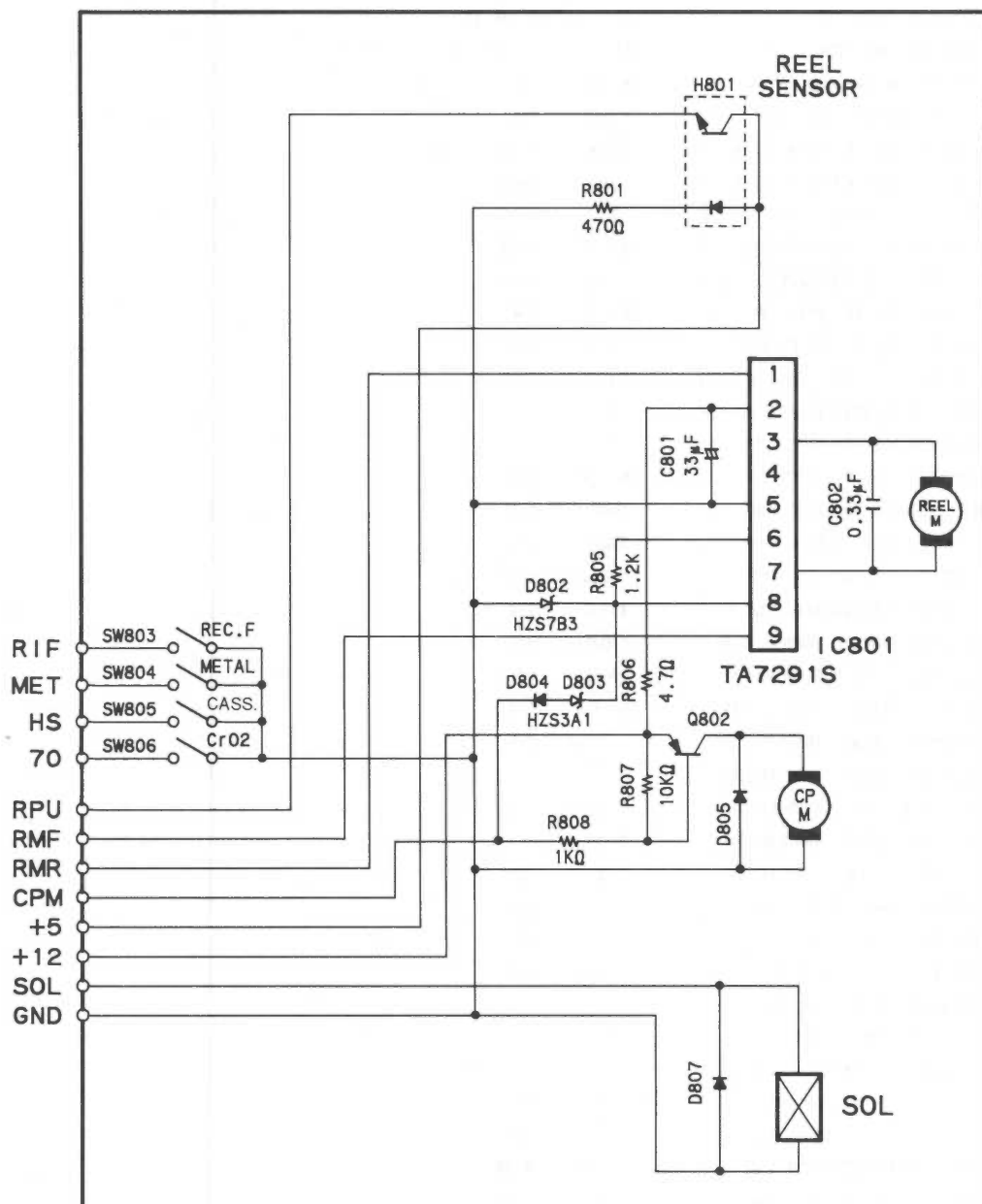
NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
COM1	4a	4d	—	—	—	—	—	NOTE	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12
COM2	4b	4c	—	—	—	—	—	S4	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12

NO	41	42	43	44	45	46	47	48	49	50	51	52	53	54
COM1	—	L13	—	L14	—	L15	L16	II/High	C	MPX FILTER	—	▷	INTRO	—
COM2	S1	R13	S2	R14	S3	R15	R16	IV/MET	I/NOR	B	—	—	◁	COM

NOTE

LEFT
PEAK/dB -30 -25 -20 -17 -14 -12 -10 -8 -6 -4 -2 -0 -2 -4 -6 -8 +
RIGHT

■ SCHEMATIC DIAGRAM (Cassette Mechanism)



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Parts List

ELECTRICAL PARTS

WARNING

- Components having special characteristics are marked $\triangle$ and must be replaced with parts having specification equal to those originally installed.
- Carbon resistors 1/4 or 1/6 W are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistor, refer to the last Page.

Schm Ref.	PART NO.	Description	Remarks	Markets
	VN180700 P.C.B. ASS'y, MAIN			
CB1	LB918020	CONNECTOR	XH i-TYPE 2P TE	
CB2	VL844900	CONNECTOR	XH i-TYPE 5P TE	
CB3	VD004600	CONNECTOR	PH i-TYPE 3P TE	
CB4	VG699800	CONNECTOR	PH 12P	
C1	UA652820	MYLAR FILM CAP	820pF 50V	
C2	UA652820	MYLAR FILM CAP	820pF 50V	
C3	UT452470	POLYPROPYLENE FILM CAP	470pF 100V	
C4	UT452100	POLYPROPYLENE FILM CAP	100pF 100V	
C5	UT452100	POLYPROPYLENE FILM CAP	100pF 100V	
C6	UT452470	POLYPROPYLENE FILM CAP	470pF 100V	
C7	UT653560	POLYPROPYLENE FILM CAP	5600pF 100V	
C8	UJ766220	ELECTROLYTIC CAP	2.2uF 50V	
C9	UJ766220	ELECTROLYTIC CAP	2.2uF 50V	
C10	UT452560	POLYPROPYLENE FILM CAP	560pF 100V	
C11	UT452560	POLYPROPYLENE FILM CAP	560pF 100V	
C12	UJ846470	ELECTROLYTIC CAP	4.7uF 25V	
C13	UJ865680	ELECTROLYTIC CAP	0.68uF 50V	
C14	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C15	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C16	UJ865680	ELECTROLYTIC CAP	0.68uF 50V	
C17	UJ846470	ELECTROLYTIC CAP	4.7uF 25V	
C18	Vi101300	CERAMIC TUBULAR CAP	0.047uF 50V	
C19	VG278800	CERAMIC TUBULAR CAP	560pF 50V	
C20	VF467300	CERAMIC TUBULAR CAP	0.01uF 16V	
C21	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C22	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C23	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C24	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C25	VF467300	CERAMIC TUBULAR CAP	0.01uF 16V	
C26	VF466800	CERAMIC TUBULAR CAP	100pF 50V	
C27	VG278800	CERAMIC TUBULAR CAP	560pF 50V	
C28	UA654100	MYLAR FILM CAP	0.01uF 50V	
C29	UA653820	MYLAR FILM CAP	8200pF 50V	
C30	VE018300	ELECTROLYTIC CAP	10uF 25V	
C31	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C32	UA654130	MYLAR FILM CAP	0.013uF 50V	
C33	VE018300	ELECTROLYTIC CAP	10uF 25V	
C34	VE016600	ELECTROLYTIC CAP	220uF 6.3V	
C35	VE016600	ELECTROLYTIC CAP	220uF 6.3V	
C36	UA654130	MYLAR FILM CAP	0.013uF 50V	
C37	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C38	VE018300	ELECTROLYTIC CAP	10uF 25V	
C39	UA654110	MYLAR FILM CAP	0.011uF 50V	
C40	UA653390	MYLAR FILM CAP	3900pF 50V	
C41	UJ847330	ELECTROLYTIC CAP	33uF 25V	
C42	UA653430	MYLAR FILM CAP	4300pF 50V	
C43	UA653330	MYLAR FILM CAP	3300pF 50V	
C44	UA653330	MYLAR FILM CAP	3300pF 50V	
C45	UA653430	MYLAR FILM CAP	4300pF 50V	

※New Parts (新規部品)

Schm Ref.	PART NO.	Description	Remarks	Markets
C46	UJ847330	ELECTROLYTIC CAP	33uF 25V	
C47	UA653390	MYLAR FILM CAP	3900pF 50V	
C48	UA654110	MYLAR FILM CAP	0.011uF 50V	
C49	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C50	UJ848100	ELECTROLYTIC CAP	100uF 25V	
C53	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C54	UA653220	MYLAR FILM CAP	2200pF 50V	
C55	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C56	UA653220	MYLAR FILM CAP	2200pF 50V	
C57	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C58	UJ847470	ELECTROLYTIC CAP	47uF 25V	
C59	UA654150	MYLAR FILM CAP	0.015uF 50V	
C60	UA654150	MYLAR FILM CAP	0.015uF 50V	
C61	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C62	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C63	UA653220	MYLAR FILM CAP	2200pF 50V	
C64	UJ865100	ELECTROLYTIC CAP	0.1uF 50V	
C65	UG413220	CERAMIC CAP	2200pF 50V	
C66	UA653220	MYLAR FILM CAP	2200pF 50V	
C67	UJ865100	ELECTROLYTIC CAP	0.1uF 50V	
C68	UJ865100	ELECTROLYTIC CAP	0.1uF 50V	
C69	UA653220	MYLAR FILM CAP	2200pF 50V	
C70	UJ865100	ELECTROLYTIC CAP	0.1uF 50V	
C71	UA653220	MYLAR FILM CAP	2200pF 50V	
C72	UG413220	CERAMIC CAP	2200pF 50V	
C73	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C74	UG444220	CERAMIC CAP	0.022uF 50V	
C75	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C76	UJ766220	ELECTROLYTIC CAP	2.2uF 50V	
C77	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C78	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C79	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C80	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C81	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C82	VI101300	CERAMIC TUBULAR CAP	0.047uF 50V	
C83	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C84	UG444100	CERAMIC CAP	0.01uF 50V	
C85	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C86	VJ599100	CERAMIC TUBULAR CAP	0.1uF 50V	
C87	VE018300	ELECTROLYTIC CAP	10uF 25V	
C88	UJ847470	ELECTROLYTIC CAP	47uF 25V	
C89	UJ846470	ELECTROLYTIC CAP	4.7uF 25V	
C90	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C91	UJ846470	ELECTROLYTIC CAP	4.7uF 25V	
C92	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C94	VE801600	ELECTROLYTIC CAP	470uF 35V	
C95	UJ739470	ELECTROLYTIC CAP	4700uF 16V	
C96	UJ847330	ELECTROLYTIC CAP	33uF 25V	
C97	VI101300	CERAMIC TUBULAR CAP	0.047uF 50V	
C98	UJ847330	ELECTROLYTIC CAP	33uF 25V	

※New Parts (新規部品)

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Schm Ref.	PART NO.	Description	Remarks	Markets
C99	UG444100	CERAMIC CAP	0.01uF 50V	
C100	UG444100	CERAMIC CAP	0.01uF 50V	
C101	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C102	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C103	UM397100	ELECTROLYTIC CAP	10uF 16V	
C104	UM397100	ELECTROLYTIC CAP	10uF 16V	
C105	UA653270	MYLAR FILM CAP	2700pF 50V	
C106	UA653270	MYLAR FILM CAP	2700pF 50V	
C107	UA653100	MYLAR FILM CAP	1000pF 50V	
C108	UA653100	MYLAR FILM CAP	1000pF 50V	
C110	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C111	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C112	UJ846470	ELECTROLYTIC CAP	4.7uF 25V	
C113	UA652470	MYLAR FILM CAP	470pF 50V	
C114	UA652470	MYLAR FILM CAP	470pF 50V	
C115	UA653220	MYLAR FILM CAP	2200pF 50V	
C116	UA653220	MYLAR FILM CAP	2200pF 50V	
D3	VM975900	ZENER DIODE	HZS162TD 16V	△
D8	IF004600	DIODE	1SS133	
D9	VM974000	ZENER DIODE	HZS5A2TD 5V	
D10	VM975900	ZENER DIODE	HZS162TD 16V	△
D13	IF004600	DIODE	1SS133	
D14	VH348200	DIODE BRIDGE	RBV-402 LF-A	△
D19	VP27630	LED	SLR-33DC3H3(OR)	
D20	VP27630	LED	SLR-33DC3H3(OR)	
D21	VP27630	LED	SLR-33DC3H3(OR)	
D22	VP27630	LED	SLR-33DC3H3(OR)	
D23	VP27640	LED	SLR-33VC3H3(RE)	
D24	VP27630	LED	SLR-33DC3H3(OR)	
D25	VP27630	LED	SLR-33DC3H3(OR)	
D26	VP27630	LED	SLR-33DC3H3(OR)	
D27	VP27630	LED	SLR-33DC3H3(OR)	
D29	VP27640	LED	SLR-33VC3H3(RE)	
D30	VP27640	LED	SLR-33VC3H3(RE)	
D31	VP27640	LED	SLR-33VC3H3(RE)	
D32	VP27640	LED	SLR-33VC3H3(RE)	
D33	VP27640	LED	SLR-33VC3H3(RE)	
D34	VP27630	LED	SLR-33DC3H3(OR)	
D35	VP27630	LED	SLR-33DC3H3(OR)	
D36	VP27640	LED	SLR-33VC3H3(RE)	
D37	VP27630	LED	SLR-33DC3H3(OR)	
D38	VP27630	LED	SLR-33DC3H3(OR)	
D39	VP27630	LED	SLR-33DC3H3(OR)	
Fi1	GE200510	FILTER, MPX		
Fi2	GE200510	FILTER, MPX		
Fi3	GE900780	COIL, BIAS TRAP	105KHz	
Fi4	GE900780	COIL, BIAS TRAP	105KHz	
IC1	XD864A00	IC	uPC1330HA	
IC2	IG076800	IC	NJM4558S	
IC3	IG145500	IC	LA3161	

*New Parts (新規部品)

Schm Ref.	PART NO.	Description	Remarks	Markets
IC4	XA300A00	IC	uPC1297CA	
IC5	iG076800	IC	NJM4558S	
IC6	iG077410	IC	NJM4556S-A	
IC7	iG076800	IC	NJM4558S	
IC8	XF483A00	IC	LB1443N	
IC9	iG089900	IC	AN90B20	
* IC10	XH741A00	IC	HA12142NT	
IC11	XH914A00	IC	MN158481	
IC12	XF483A00	IC	LB1443N	
IC13	XA507A00	IC	AN78N05	
JK1	LB301370	PHONES JACK	M1658-K	
L1	GE901660	COIL	18mH	
L2	GE901660	COIL	18mH	
L5	VA709900	COIL, STEP UP	105KHz	
L6	VA709900	COIL, STEP UP	105KHz	
L7	VN136200	COIL	105KHz	
PJ1	LB401050	PIN JACK	4P	
* Q1	VK432900	TRANSISTOR	2SD1915 (F) S,T	
* Q2	VK432900	TRANSISTOR	2SD1915 (F) S,T	
Q3	iC174020	TRANSISTOR	2SC1740S R,S	
Q4	iC174020	TRANSISTOR	2SC1740S R,S	
Q5	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q7	iC174020	TRANSISTOR	2SC1740S R,S	
Q8	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q9	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q10	VE613400	TRANSISTOR	2SD1858 Q,R	
Q11	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q12	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q13	VD678500	DIGITAL TRANSISTOR	DTA114ES	
Q14	iC174020	TRANSISTOR	2SC1740S R,S	
Q15	iA111510	TRANSISTOR	2SA1115 E,F	
Q16	VE613300	TRANSISTOR	2SB1237 Q,R	
Q17	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q18	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q19	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q20	VD488500	DIGITAL TRANSISTOR	DTC143XS	
Q22	iC198300	TRANSISTOR	2SC1983	
Q23	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q24	VD678700	DIGITAL TRANSISTOR	DTC114ES	
Q25	VK432900	TRANSISTOR	2SD1915 (F) S,T	
Q26	VK432900	TRANSISTOR	2SD1915 (F) S,T	
Q27	iC174020	TRANSISTOR	2SC1740S R,S	
Q28	iC174020	TRANSISTOR	2SC1740S R,S	
Q31	VD678700	DIGITAL TRANSISTOR	DTC114ES	
R19	HV454220	FLAME PROOF CARBON RESISTOR	22Ω 1/4W	
R130	VE009700	FUSABLE RESISTOR	4.7Ω 1/4W	
* R184	VK187000	FUSABLE RESISTOR	22Ω 1/4W	
R185	HV454220	FLAME PROOF CARBON RESISTOR	22Ω 1/4W	
SW1	VJ850300	PUSH SWITCH	PSE0YP-CF2KX	
SW2	VJ850300	PUSH SWITCH	PSE0YP-CF2KX	

*New Parts (新規部品)

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Schm Ref.	PART NO.	Description	Remarks	Markets
SW3	VG392900	SWITCH	SKH1VAA	
SW4	VG392900	SWITCH	SKH1VAA	
SW5	VG392900	SWITCH	SKH1VAA	
SW6	VG392900	SWITCH	SKH1VAA	
SW7	VG392900	SWITCH	SKH1VAA	
SW8	VG392900	SWITCH	SKH1VAA	
SW9	VG392900	SWITCH	SKH1VAA	
SW10	VG392900	SWITCH	SKH1VAA	
TP1	VL448600	JUMPER, TEST POINT		
TP2	VL448600	JUMPER, TEST POINT		
U1	VF926500	LIGHT DETECTING MODULE	GP1U501X	
VR1	VM640900	POTENTIOMETER	A50K Ω	
VR2	VM641100	POTENTIOMETER	MN50K Ω	
VR3	VM641000	POTENTIOMETER	B100K Ω	
VR4	VJ693500	PRE-SET POTENTIOMETER	B6.8K Ω	
VR5	VJ693500	PRE-SET POTENTIOMETER	B6.8K Ω	
VR6	VJ693600	PRE-SET POTENTIOMETER	B10K Ω	
VR7	VG237500	POTENTIOMETER	2K Ω	
VR8	VJ693600	PRE-SET POTENTIOMETER	B10K Ω	
VR9	VJ693800	PRE-SET POTENTIOMETER	B22K Ω	
VR10	VJ693800	PRE-SET POTENTIOMETER	B22K Ω	
VR11	VJ694200	PRE-SET POTENTIOMETER	B100K Ω	
VR12	VJ694200	PRE-SET POTENTIOMETER	B100K Ω	
XL1	VB759100	CERAMIC RESONATOR	4MHz	
	VN126800	HEAT SINK	U0T-16C25-MP	
	VH180800	P.C.B. ASS'y, TRANS.		U,C
	VH180900	P.C.B. ASS'y, TRANS.		R
	VH181000	P.C.B. ASS'y, TRANS.		A,B
	VH181100	P.C.B. ASS'y, TRANS.		G
C501	FI514100	RECOGNIZED CERAMIC CAP	0.01 μ F VA-1	
CB501	VG879900	CONNECTOR	VH 2P TE	
CB502	VD004600	CONNECTOR	PH i-TYPE 3P TE	
SW501	VC133100	PUSH SWITCH	SDDL1	
SW502	VG388100	VOLTAGE SELECTOR	HXW0244-01-080	R
T501	XX755A00	POWER TRANSFORMER		U,C
T501	XX756A00	POWER TRANSFORMER		R
T501	XX757A00	POWER TRANSFORMER		A,B
T501	XX758A00	POWER TRANSFORMER		G
	E1030086	BIND HEAD P-TITE SCREW	3x8 ZMC2-Y	PACK

※New Parts (新規部品)

■ ELECTRICAL PARTS

Schm Ref.	PART NO.	Description	Remarks	Markets
* VH176900 P.C.B. ASS'y, MAIN				
CB1	VL844900	CONNECTOR	XH i-TYPE 5P TE	
CB2	LB918020	CONNECTOR	XH i-TYPE 2P TE	
CB4	VD004700	CONNECTOR	PH i-TYPE 4P TE	
CB5	VD004600	CONNECTOR	PH i-TYPE 3P TE	
C1	UT452470	POLYPROPYLENE FILM CAP	470pF 100V	
C2	UT452470	POLYPROPYLENE FILM CAP	470pF 100V	
C3	UT653390	POLYPROPYLENE FILM CAP	3900pF 100V	
C4	UJ766220	ELECTROLYTIC CAP	2.2uF 50V	
C5	UJ766220	ELECTROLYTIC CAP	2.2uF 50V	
C6	VE018300	ELECTROLYTIC CAP	10uF 25V	
C7	VE018300	ELECTROLYTIC CAP	10uF 25V	
C8	UT452560	POLYPROPYLENE FILM CAP	560pF 100V	
C9	UT452560	POLYPROPYLENE FILM CAP	560pF 100V	
C10	VE018300	ELECTROLYTIC CAP	10uF 25V	
C11	VE018200	ELECTROLYTIC CAP	4.7uF 25V	
C12	UT452820	POLYPROPYLENE FILM CAP	820pF 100V	
C13	UT452820	POLYPROPYLENE FILM CAP	820pF 100V	
C14	VE018200	ELECTROLYTIC CAP	4.7uF 25V	
C15	VJ599000	CERAMIC TUBULAR CAP	0.047uF 16V	
C16	UT452100	POLYPROPYLENE FILM CAP	100pF 100V	
C17	UT452100	POLYPROPYLENE FILM CAP	100pF 100V	
C18	VF466800	CERAMIC TUBULAR CAP	100pF 50V	
C20	UA653220	MYLAR FILM CAP	2200pF 50V	
C21	UA654100	MYLAR FILM CAP	0.01uF 50V	
C22	UJ747100	ELECTROLYTIC CAP	10uF 25V	
* C23	UA654130	MYLAR FILM CAP	0.013uF 50V	
C24	VE016600	ELECTROLYTIC CAP	220uF 6.3V	
C25	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C26	VE016600	ELECTROLYTIC CAP	220uF 6.3V	
* C27	UA654130	MYLAR FILM CAP	0.013uF 50V	
C28	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C29	UA654680	MYLAR FILM CAP	0.068uF 50V	
C30	UJ847330	ELECTROLYTIC CAP	33uF 25V	
C31	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C32	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C33	UA654680	MYLAR FILM CAP	0.068uF 50V	
C34	UJ847330	ELECTROLYTIC CAP	33uF 25V	
C35	VG278800	CERAMIC TUBULAR CAP	560pF 50V	
C36	VF467300	CERAMIC TUBULAR CAP	0.01uF 16V	
C37	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C38	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C39	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C40	VG280100	CERAMIC TUBULAR CAP	0.022uF 25V	
C41	VF467300	CERAMIC TUBULAR CAP	0.01uF 16V	
C42	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C43	VG278800	CERAMIC TUBULAR CAP	560pF 50V	
C44	UJ847470	ELECTROLYTIC CAP	47uF 25V	
C45	UA653220	MYLAR FILM CAP	2200pF 50V	
C46	UA653100	MYLAR FILM CAP	1000pF 50V	

*New Parts (新規部品)

Schm Ref.	PART NO.	Description	Remarks	Markets
C47	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C48	UA653120	MYLAR FILM CAP	1200pF 50V	
C49	UA653120	MYLAR FILM CAP	1200pF 50V	
C50	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C51	UA653100	MYLAR FILM CAP	1000pF 50V	
C52	UA654150	MYLAR FILM CAP	0.015uF 50V	
C53	UA653470	MYLAR FILM CAP	4700pF 50V	
C54	UA653430	MYLAR FILM CAP	4300pF 50V	
C55	UA653330	MYLAR FILM CAP	3300pF 50V	
C56	UA653330	MYLAR FILM CAP	3300pF 50V	
C57	UA653430	MYLAR FILM CAP	4300pF 50V	
C58	UA653470	MYLAR FILM CAP	4700pF 50V	
C59	UA654150	MYLAR FILM CAP	0.015uF 50V	
C60	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C62	UA654180	MYLAR FILM CAP	0.018uF 50V	
C63	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C64	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C65	UA654180	MYLAR FILM CAP	0.018uF 50V	
C66	UJ865100	ELECTROLYTIC CAP	0.1uF 50V	
C67	UJ865100	ELECTROLYTIC CAP	0.1uF 50V	
C68	UA653220	MYLAR FILM CAP	2200pF 50V	
C69	UA653220	MYLAR FILM CAP	2200pF 50V	
C70	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C71	UA653220	MYLAR FILM CAP	2200pF 50V	
C72	UJ865100	ELECTROLYTIC CAP	0.1uF 50V	
C73	UJ865100	ELECTROLYTIC CAP	0.1uF 50V	
C74	UA653220	MYLAR FILM CAP	2200pF 50V	
C75	UA653220	MYLAR FILM CAP	2200pF 50V	
C76	UA653220	MYLAR FILM CAP	2200pF 50V	
C77	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C78	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C79	UJ766220	ELECTROLYTIC CAP	2.2uF 50V	
C80	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C81	F1553100	CERAMIC CAP	1000pF 50V	
C82	VB170100	ELECTROLYTIC CAP	4700uF 5.5V	
C83	UJ766220	ELECTROLYTIC CAP	2.2uF 50V	
C84	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C85	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C86	UJ865150	ELECTROLYTIC CAP	0.15uF 50V	
C87	UH415560	ELECTROLYTIC CAP	0.56uF 50V	
C88	VF467300	CERAMIC TUBULAR CAP	0.01uF 16V	
C89	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C92	UJ858100	ELECTROLYTIC CAP	100uF 35V	
C93	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C94	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C95	UJ846470	ELECTROLYTIC CAP	4.7uF 25V	
C96	UJ846470	ELECTROLYTIC CAP	4.7uF 25V	
C97	UJ766220	ELECTROLYTIC CAP	2.2uF 50V	
C98	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C99	UJ857100	ELECTROLYTIC CAP	10uF 35V	

*New Parts (新規部品)

Schm Ref.	PART NO.	Description	Remarks	Markets
C100	VE018300	ELECTROLYTIC CAP	10uF 25V	
C101	UJ766220	ELECTROLYTIC CAP	2.2uF 50V	
* C102	VN542700	ELECTROLYTIC CAP	680uF 35V	
C103	UJ847470	ELECTROLYTIC CAP	47uF 25V	
C104	UJ739820	ELECTROLYTIC CAP	8200uF 16V	
C105	UG444100	CERAMIC CAP	0.01uF 50V	
C106	UG444100	CERAMIC CAP	0.01uF 50V	
C107	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C108	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C109	UJ766100	ELECTROLYTIC CAP	1uF 50V	
C110	UJ847330	ELECTROLYTIC CAP	33uF 25V	
C112	VF466800	CERAMIC TUBULAR CAP	100pF 50V	
C113	VF466800	CERAMIC TUBULAR CAP	100pF 50V	
C115	UJ847330	ELECTROLYTIC CAP	33uF 25V	
C116	VF467300	CERAMIC TUBULAR CAP	0.01uF 16V	
C117	VF467300	CERAMIC TUBULAR CAP	0.01uF 16V	
C118	VF467300	CERAMIC TUBULAR CAP	0.01uF 16V	
C201	UA653330	MYLAR FILM CAP	3300pF 50V	
C202	UA653330	MYLAR FILM CAP	3300pF 50V	
C203	UA653330	MYLAR FILM CAP	3300pF 50V	
C204	UA653330	MYLAR FILM CAP	3300pF 50V	
C206	UA653100	MYLAR FILM CAP	1000pF 50V	
C207	UA653100	MYLAR FILM CAP	1000pF 50V	
C208	UJ847470	ELECTROLYTIC CAP	47uF 25V	
D2	VM975900	ZENER DIODE	HZS162TD 16V	△
D5	IF004600	DIODE	1SS133	
D6	IF004600	DIODE	1SS133	
D7	IF004600	DIODE	1SS133	
D8	VM973900	ZENER DIODE	HZS4C2TD 4V	
D9	IF004600	DIODE	1SS133	
D10	IF004600	DIODE	1SS133	
D11	IF004600	DIODE	1SS133	
D12	IF004600	DIODE	1SS133	
D13	IF004600	DIODE	1SS133	
D14	VM974000	ZENER DIODE	HZS5A2TD 5V	△
D15	VM975900	ZENER DIODE	HZS162TD 16V	△
D16	IF004600	DIODE	1SS133	
D17	VH348200	DIODE BRIDGE	RBV-402 LF-A	
D201	IF004600	DIODE	1SS133	
* D202	VM975100	ZENER DIODE	HZS9C2TD 9V	
IC1	IG145500	IC	LA3161	
IC3	IG076800	IC	NJM4558S	
IC5	XA300A00	IC	uPC1297CA	
IC6	IG076800	IC	NJM4558S	
IC8	IG089900	IC	AN90B20	
IC9	XH741A00	IC	HA12142NT	
* IC10	XK255B00	IC	LC66404A-XXXSP	
IC11	XA507A00	IC	AN78N05	△
IC12	IG074900	IC	BA6138	
IC13	IG076800	IC	NJM4558S	

*New Parts (新規部品)

Schm Ref.	PART NO.	Description	Remarks	Markets
IC15	i6077410 IC	NJM4556S-A		
JK1	LB301370 PHONES JACK	M1658-K		
L1	VM548200 LC FILTER	160KHz BEF		
L2	VM548200 LC FILTER	160KHz BEF		
L3	VM548000 COIL, STEP UP	160KHz		
L4	VM548000 COIL, STEP UP	160KHz		
L5	VM620000 COIL, BIAS OSC	160KHz		
L6	GE901660 COIL	18mH		
L7	GE901660 COIL	18mH		
L8	GE901660 COIL	18mH		
L9	GE901660 COIL	18mH		
L10	VM548100 LC FILTER	160KHz MPX		
L11	VM548100 LC FILTER	160KHz MPX		
PJ1	LB401050 PIN JACK	4P		
Q1	VK432900 TRANSISTOR	2SD1915 (F) S,T		
Q2	VK432900 TRANSISTOR	2SD1915 (F) S,T		
Q3	iC174020 TRANSISTOR	2SC1740S R,S		
Q4	iC174020 TRANSISTOR	2SC1740S R,S		
Q5	VG722000 DIGITAL TRANSISTOR	DTC144ES		
Q6	VE613400 TRANSISTOR	2SD1858 Q,R		△
Q7	VD678700 DIGITAL TRANSISTOR	DTC114ES		
Q8	VD678700 DIGITAL TRANSISTOR	DTC114ES		
Q9	VD678700 DIGITAL TRANSISTOR	DTC114ES		
Q10	VG722000 DIGITAL TRANSISTOR	DTC144ES		
Q11	VG722000 DIGITAL TRANSISTOR	DTC144ES		
Q12	VD678500 DIGITAL TRANSISTOR	DTA114ES		
Q13	VE613400 TRANSISTOR	2SD1858 Q,R		
Q14	iC174020 TRANSISTOR	2SC1740S R,S		
Q15	VD678500 DIGITAL TRANSISTOR	DTA114ES		
Q16	VD678500 DIGITAL TRANSISTOR	DTA114ES		
Q17	VE613300 TRANSISTOR	2SB1237 Q,R		
Q18	VD678700 DIGITAL TRANSISTOR	DTC114ES		
Q19	VD678700 DIGITAL TRANSISTOR	DTC114ES		
Q20	VD678700 DIGITAL TRANSISTOR	DTC114ES		
Q21	VG722000 DIGITAL TRANSISTOR	DTC144ES		
Q23	VD678500 DIGITAL TRANSISTOR	DTA114ES		
Q24	VD488500 DIGITAL TRANSISTOR	DTC143XS		
Q25	VD678700 DIGITAL TRANSISTOR	DTC114ES		
Q27	iA093320 TRANSISTOR	2SA933S Q,R		
Q28	iC198300 TRANSISTOR	2SC1983		△
Q29	VK432900 TRANSISTOR	2SD1915 (F) S,T		
Q30	VK432900 TRANSISTOR	2SD1915 (F) S,T		
Q201	VD678700 DIGITAL TRANSISTOR	DTC114ES		
Q202	VD678700 DIGITAL TRANSISTOR	DTC114ES		
Q203	VK432900 TRANSISTOR	2SD1915 (F) S,T		
Q204	VK432900 TRANSISTOR	2SD1915 (F) S,T		
RY1	VM640200 RELAY	DC12V RY 12W-OH-K		
R16	HV453560 FLAME PROOF CARBON RESISTOR	5.6 Ω 1/4W		△
R83	VG734300 RESISTOR ARRAY	10K Ω×6		
R136	HV454220 FLAME PROOF CARBON RESISTOR	22 Ω 1/4W		△

※New Parts (新規部品)

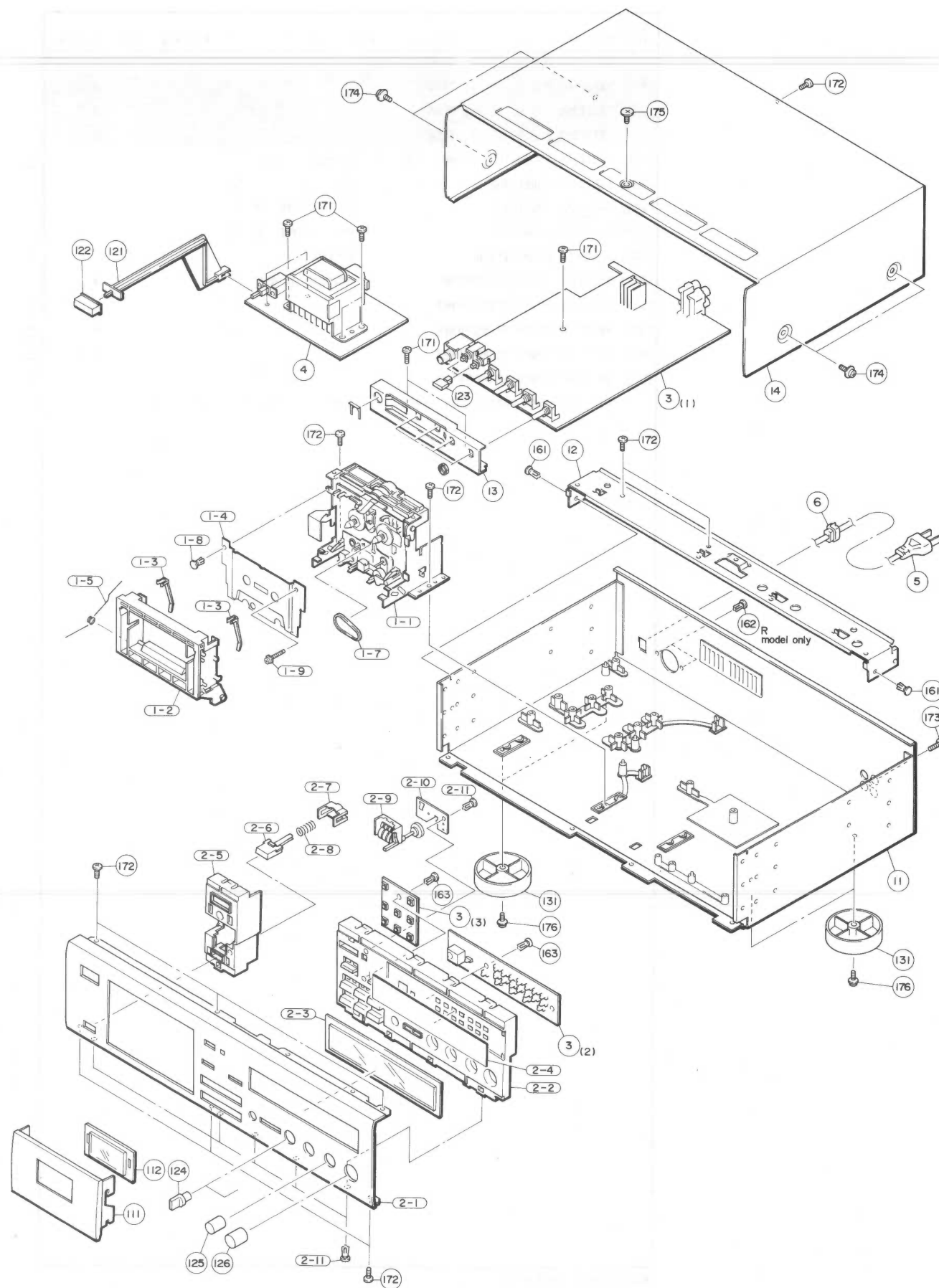
Schm Ref.	PART NO.	Description	Remarks	Markets
* R138	VK187000	FUSABLE RESISTOR	22Ω 1/4W	△
R223	VE009700	FUSABLE RESISTOR	4.7Ω 1/4W	△
TP1	VL448600	JUMPER, TEST POINT		
TP2	VL448600	JUMPER, TEST POINT		
VR1	VM640900	POTENTIOMETER	A50KΩ	
VR2	VM641100	POTENTIOMETER	MN50KΩ	
VR4	VJ693500	PRE-SET POTENTIOMETER	B6.8KΩ	
VR5	VJ693500	PRE-SET POTENTIOMETER	B6.8KΩ	
VR6	VJ694200	PRE-SET POTENTIOMETER	B100KΩ	
VR7	VM641000	POTENTIOMETER	B100KΩ	
VR9	VJ694200	PRE-SET POTENTIOMETER	B100KΩ	
VR10	VJ693800	PRE-SET POTENTIOMETER	B22KΩ	
VR11	VG237500	POTENTIOMETER	2KΩ	
VR12	VJ693800	PRE-SET POTENTIOMETER	B22KΩ	
VR13	VJ693800	PRE-SET POTENTIOMETER	B22KΩ	
VR14	VJ693800	PRE-SET POTENTIOMETER	B22KΩ	
VR15	VJ693600	PRE-SET POTENTIOMETER	B10KΩ	
VR16	VJ693600	PRE-SET POTENTIOMETER	B10KΩ	
VR17	VM640800	POTENTIOMETER	A5KΩ	
XL1	VB759100	CERAMIC RESONATOR	4MHz	
	VN126800	HEAT SINK	UOT-16C25-MP	
	VB966900	CONNECTOR	IMS-A-6024	
* VN177400 P.C.B. ASS'y, SUB				
CB301	VB858400	CONNECTOR	PH L-TYPE 5P SE	
C301	VE552400	CERAMIC CAP	820pF 50V	
C302	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C303	UJ747100	ELECTROLYTIC CAP	10uF 25V	
C304	UJ766100	ELECTROLYTIC CAP	1uF 50V	
D301	IF004600	DIODE	1SS133	
IC301	XR417A00	IC	LC7582	
Q301	VD678700	DIGITAL TRANSISTOR	DTC114ES	
SW301	VG392900	SWITCH	SKHVAA	
SW302	VG392900	SWITCH	SKHVAA	
SW303	VG392900	SWITCH	SKHVAA	
SW304	VB114200	SLIDE SWITCH	1-3	
SW305	VG392900	SWITCH	SKHVAA	
SW306	VG392900	SWITCH	SKHVAA	
SW307	VG392900	SWITCH	SKHVAA	
SW308	VG392900	SWITCH	SKHVAA	
SW309	VG392900	SWITCH	SKHVAA	
SW310	VG392900	SWITCH	SKHVAA	
SW311	VG392900	SWITCH	SKHVAA	
SW312	VG392900	SWITCH	SKHVAA	
SW313	VG392900	SWITCH	SKHVAA	
U301	VG990800	LIGHT DETECTING MODULE	GP1U521X	

*New Parts (新規部品)

Schm Ref.	PART NO.	Description	Remarks	Markets
* VN177000	P.C.B. ASS'y, TRANS.			B,C
* VN177100	P.C.B. ASS'y, TRANS.			R
* VN177200	P.C.B. ASS'y, TRANS.			A,B
* VN177300	P.C.B. ASS'y, TRANS.			G
C501	FI514100	RECOGNIZED CERAMIC CAP	0.01uF VA-1	△
CB501	VG879900	CONNECTOR	VH 2P TE	
CB502	VD004600	CONNECTOR	PH i-TYPE 3P TE	
CB503	VD004700	CONNECTOR	PH i-TYPE 4P TE	
SW501	VC133100	PUSH SWITCH	SDDL1	△
SW502	VG388100	VOLTAGE SELECTOR	HXW0244-01-080	R
T501	XK755A00	POWER TRANSFORMER		U,C △
T501	XK756A00	POWER TRANSFORMER		R △
T501	XK757A00	POWER TRANSFORMER		A,B △
T501	XK758A00	POWER TRANSFORMER		G △
	E1030086	BIND HEAD P-TITE SCREW	3x8 ZMC2-Y PACK	

*New Parts (新規部品)

EXPLODED VIEW



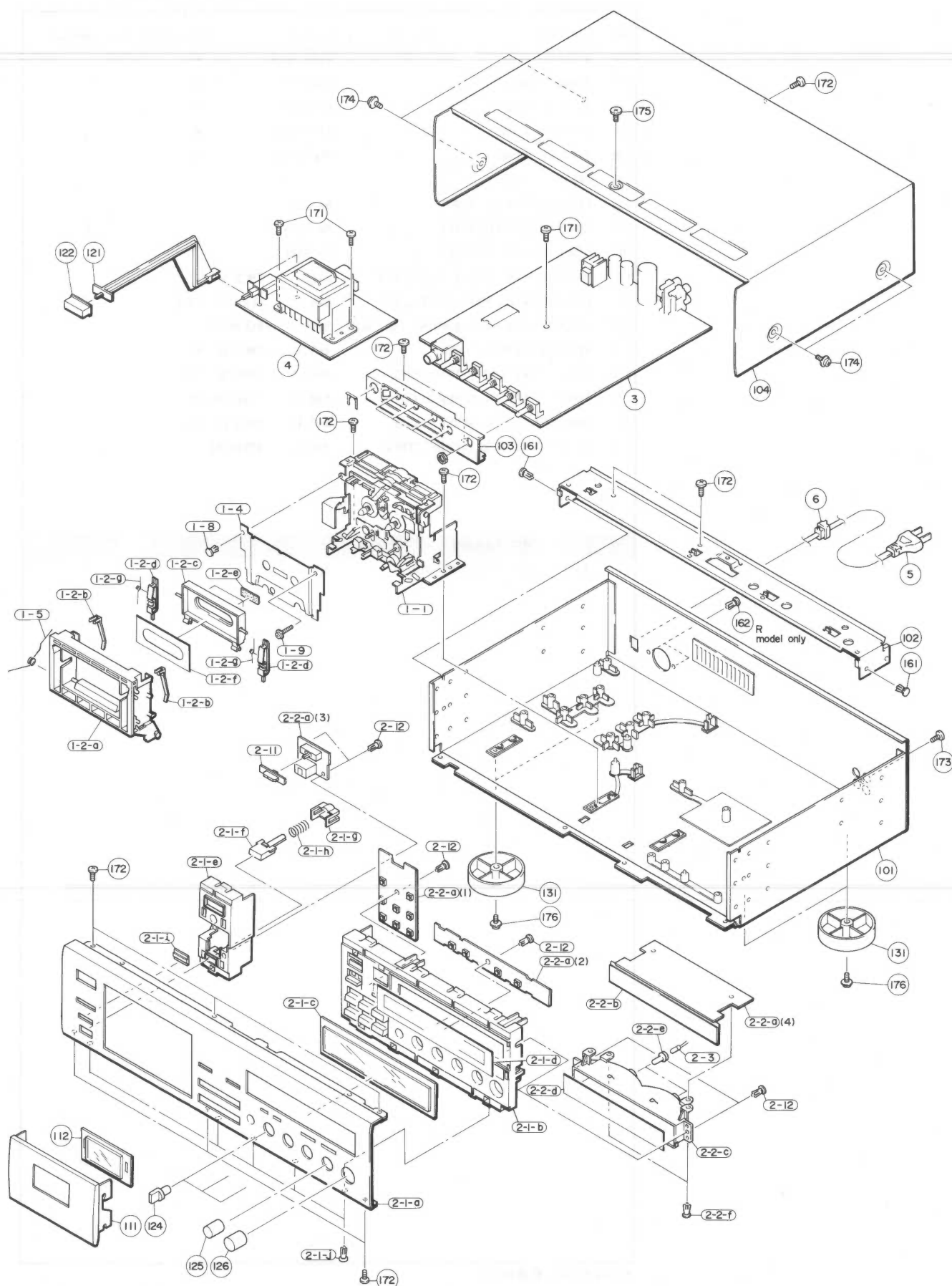
PARTS LIST

Ref. NO.	PART NO.	Description	Remarks	Markets
1-1	VM986300	CASSETTE DECK MECHANISM		
1-2	VM633600	CASSETTE HOUSING		
1-3	VM868200	GUIDE, CASSETTE		
1-4	VM635900	BACK PLATE		
1-5	VM873800	SPRING-T	EJ	
1-7	CB652880	BELT	COUNTER	
1-8	CB099600	PLASTIC RIVET	No.920	
1-9	EK096060	BW HEAD S-TITE SCREW	2.5x12	FCRM3-BL
2-1	VM643300	FRONT PANEL		BL
2-1	VM643400	FRONT PANEL		TI
2-2	VM635100	SUB PANEL		BL
2-2	VM635200	SUB PANEL		TI
2-3	VJ923700	WINDOW		
2-4	VM868400	SHEET, METER		
2-5	VM634000	BUTTON GUIDE, EJ		BL
2-5	VM634100	BUTTON GUIDE, EJ		TI
2-6	VI658100	BUTTON, EJ		BL
2-6	VI658200	BUTTON, EJ		TI
2-7	VK916700	BUTTON GUIDE		
2-8	VM873600	SPRING-C		
2-9	VM988800	TAPE COUNTER	MK395-147	
2-10	AA629780	HOLDER, COUNTER		
2-11	CB068880	PLASTIC RIVET	No.1027	
3	VN180700	P.C.B. ASS'y, MAIN		
4	VN180800	P.C.B. ASS'y, TRANS.		U.C
4	VN180900	P.C.B. ASS'y, TRANS.		R
4	VN181000	P.C.B. ASS'y, TRANS.		A,B
4	VN181100	P.C.B. ASS'y, TRANS.		G
5	VL238100	POWER CORD ASS'y		R
5	VL238400	POWER CORD ASS'y		A
5	VL238900	POWER CORD ASS'y		G
5	VM967600	POWER CORD ASS'y		U.C
5	VN804500	POWER CORD ASS'y		B
6	VN158600	CORD STOPPER	No.2104	R,A,B,G
6	VN158700	CORD STOPPER	No.3864	U.C
11	VM871200	CHASSIS		U,C,A,B,G
11	VM871400	CHASSIS		R
12	VM634400	TOP FRAME		
13	VM634800	BRACKET, VR		
14	VN211600	TOP COVER		BL
14	VN211700	TOP COVER		TI
111	VM632200	SUB PANEL, LID		BL
111	VM632300	SUB PANEL, LID		TI
112	VM633400	WINDOW PANEL, LID		
121	VM633500	EXTENSION BAR P		
122	VM889400	BUTTON	POWER	BL
122	VM889500	BUTTON	POWER	TI
123	VM736600	BUTTON	DOLBY	BL
123	VM736700	BUTTON	DOLBY	TI
124	VI251000	KNOB	BIAS, TRIM	BL

*New Parts (新規部品)

Ref. NO.	PART NO.	Description	Remarks	Markets
124	Vi251100 KNOB	BIAS.TRIM	TI	
125	VH889200 KNOB	BALANCE	BL	
125	VH889300 KNOB	BALANCE	TI	
* 126	VH736400 KNOB	REC LEVEL	BL	
* 126	VH736500 KNOB	REC LEVEL	TI	
131	VK016500 LEG			
161	CB099600 PLASTIC RIVET	No.920		
162	CB609260 PLASTIC RIVET	No.6206		R
163	CB605620 PLASTIC RIVET	No.1781		
171	EK093040 BIND HEAD B-TITE SCREW	3x12	ZMC2-Y	
172	Ei330086 BIND HEAD B-TITE SCREW	3x8	FCRM3-BL PACK	
173	EN335030 BIND HEAD BONDING TAP. SCREW	3x10	FCRM3-BL	
174	EK365090 BW HEAD SCREW	4x8	ZMC2-BL BL	
174	EX601150 BW HEAD S-TITE SCREW	4x8-10	FNM3-BL TI	
175	EX601850 SPECIAL SCREW S-TITE	4x8-10	FCRM3-BL BL	
175	EX601860 SPECIAL SCREW S-TITE	4x8-10	FNM3-BL TI	
176	EK930010 BW HEAD TAPPING SCREW	3x8-8	FCRM3-BL	
ACCESSORIES				
	VE233300 PIN-PLUG CORD ASS'y	2P		

*New Parts (新規部品)

KX-360**EXPLODED VIEW**

■ PARTS LIST

Ref. NO.	PART NO.	Description	Remarks	Markets
* 1-1	VM986300	CASSETTE DECK MECHANISM		
* 1-2-a	VM633600	CASSETTE HOUSING		
* 1-2-b	VM868200	GUIDE, CASSETTE		
1-2-c	VK918800	PLATE	DAMPER	
1-2-d	VK918900	LEVER, DAMPER		
1-2-e	VK919000	DAMPER		
* 1-2-f	VM873200	SHEET, DAMPER	BL	
* 1-2-f	VM873300	SHEET, DAMPER	TI	
1-2-g	VM873700	SPRING-T		
1-4	VM635900	BACK PLATE	B	
1-5	VM873800	SPRING-T	EJ	
1-8	CB099600	PLASTIC RIVET	No.920	
1-9	EK096060	BW HEAD S-TITE SCREW	2.5x12 FCRM3-BL	
* 2-1-a	VM643100	FRONT PANEL	BL	
* 2-1-a	VM643200	FRONT PANEL	TI	
* 2-1-b	VM634900	SUB PANEL		
* 2-1-b	VM635000	SUB PANEL		
2-1-c	VJ923700	WINDOW PANEL		
2-1-d	VJ924000	SHEET		
* 2-1-e	VM634000	BUTTON GUIDE, EJ	BL	
* 2-1-e	VM634100	BUTTON GUIDE, EJ	TI	
2-1-f	Vi658100	BUTTON, EJ	BL	
2-1-f	Vi658200	BUTTON, EJ	TI	
2-1-g	VK916700	BUTTON GUIDE		
2-1-h	VM873600	SPRING-C		
2-1-i	VM897500	LENS		
2-1-j	CB068880	PLASTIC RIVET	No.1027	
* 2-2-a	VN177400	P.C.B. ASS'y, SUB		
2-2-b	VM279500	LCD	8231B1JP	
2-2-c	VM400200	REFLECTOR		
2-2-d	VM409600	SHEET	D	
2-2-e	VF444500	LAMP CAP	AG-4015	
2-2-f	CB605620	PLASTIC RIVET	No.1057	
2-3	Vi284600	LAMP	150mA 8V	
2-11	CB657120	KNOB	BL	
2-11	Vi855900	KNOB	TI	
2-12	CB605620	PLASTIC RIVET	No.1057	
* 3	VN176900	P.C.B. ASS'y, MAIN		
* 4	VN177000	P.C.B. ASS'y, TRANS.		U,C
* 4	VN177100	P.C.B. ASS'y, TRANS.		R
* 4	VN177200	P.C.B. ASS'y, TRANS.		A,B
* 4	VN177300	P.C.B. ASS'y, TRANS.		G
5	VL238100	POWER CORD ASS'y		R
5	VL238400	POWER CORD ASS'y		A
5	VL238900	POWER CORD ASS'y		G
5	VM967600	POWER CORD ASS'y		U,C
* 5	VN804500	POWER CORD ASS'y		B
6	VN158600	CORD STOPPER	No.2104	R,A,B,G
6	VN158700	CORD STOPPER	No.3864	U,C
* 101	VM871200	CHASSIS		U,C,A,B,G

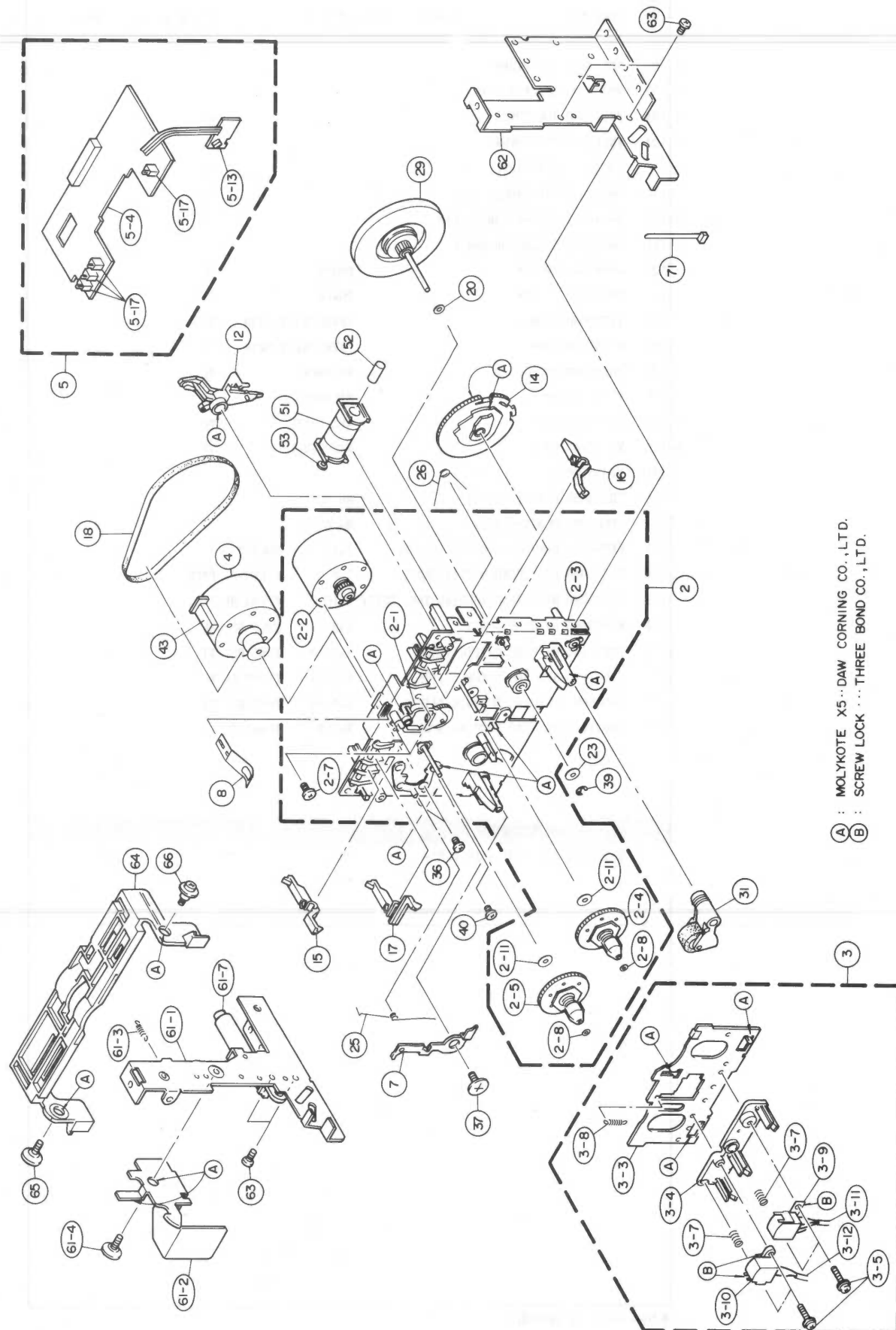
*New Parts (新規部品)

Ref. NO.	PART NO.	Description	Remarks	Markets
* 101	VM871400	CHASSIS		R
* 102	VM634400	TOP FRAME		
* 103	VM634700	BRACKET, VR		
* 104	VN211600	TOP COVER	BL	
* 104	VN211700	TOP COVER	TI	
* 111	VM632200	SUB PANEL, LID	BL	
* 111	VM632300	SUB PANEL, LID	TI	
* 112	VM633400	WINDOW PANEL, LID		
* 121	VM633500	EXTENSION BAR P		
122	VM889400	BUTTON	POWER BL	
122	VM889500	BUTTON	POWER TI	
124	Vi251000	KNOB	LEVEL, BIAS, TRIM BL	
124	Vi251100	KNOB	LEVEL, BIAS, TRIM TI	
125	VM889200	KNOB	BALANCE BL	
125	VM889300	KNOB	BALANCE TI	
* 126	VM736400	KNOB	REC LEVEL BL	
* 126	VM736500	KNOB	REC LEVEL TI	
131	VK016500	LEG		
161	CB099600	PLASTIC RIVET	No.920	
162	CB609260	PLASTIC RIVET	No.6206	R
171	EK093040	BIND HEAD B-TITE SCREW	3x12 ZMC2-Y	
172	Ei330086	BIND HEAD B-TITE SCREW	3x8 FCRM3-BL PACK	
173	EN335030	BIND HEAD BONDING TAP. SCREW	3x10 FCRM3-BL	
174	EK365090	BW HEAD SCREW	4x8 ZMC2-BL BL	
174	EX601150	BW HEAD S-TITE SCREW	4x8-10 FNM3-BL TI	
175	EX601850	SPECIAL SCREW S-TITE	4x8-10 FCRM3-BL BL	
175	EX601860	SPECIAL SCREW S-TITE	4x8-10 FNM3-BL TI	
176	EK930010	BW HEAD TAPPING SCREW	3x8-8 FCRM3-BL	
ACCESSORIES				
	VE233300	PIN-PLUG CORD ASS'y	2P	

*New Parts (新規部品)

EXPLODED VIEW (Cassette Mechanism)

KX-260
KX-360



A : MOLYKOTE X5-DAW CORNING CO., LTD.
B : SCREW LOCK ... THREE BOND CO., LTD.

KX-260
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PARTS LIST (Mechanism parts)

Ref. NO.	PART NO.	Description	Remarks	Markets
VH980300 CASSETTE DECK MECHANISM CHAY52338A				
2	AX616800	CHASSIS ASS'y		F511529
2-1	AX605120	IDLER ASS'y		F517049
2-2	JX600660	MOTOR, REEL		F564280
2-3	AX616810	CHASSIS BASE ASS'y		F612184
2-4	AX605150	REEL BASE		F623037
2-5	AX605160	REEL BASE		F623127
2-7	AX616670	SCREW	2.6x6.4	FG15611A
2-8	XX636610	WASHER	1.7x0.25	FJ11117
2-11	XX641850	WASHER	2.1x0.25	UJ12V11
3	NX610710	PLATE HEAD ASS'y		F513664
3-3	AX616820	HEAD BASE		FC52E46
3-8	AX600370	HEAD BASE SPRING		FK26N14
3-9	GX603050	HEAD	REC/PB	FU15R12
3-10	GX606840	ERASE HEAD		FU19211
3-11	MX601130	CONNECTOR		WH48C06
3-12	MX601140	CONNECTOR		WH50T05
4	NX608410	MAIN MOTOR ASS'y		F525269
5	NX610720	P.C.B. ASS'y, CONTROL		F567476
5-13	IX618310	SENSOR	SPI-335-34-FG	AW13F00
5-17	KX601080	PUSH SWITCH		UE16E11
7	AX602510	ARM	L	FC39S33
8	AX608580	SPRING, CASSETTE HOLDER		FC52H12
12	BX602330	PLAY ARM 3		FD45G13
14	CX672960	CAM GEAR 3R		FD45B16
15	AX611250	DETECT LEVER	REC	FD44T14
16	CX608720	DETECT LEVER	PACK	FD44Y12
17	CX612740	DETECT LEVER	METAL TAPE	FD44V12
18	CX673050	MAIN BELT		FF17W31
20	XX636810	WASHER	2.6x0.25	FJ11130
23	CX608740	WASHER	2.6x0.5	FJ11114
25	AX616690	SPRING, INTERLOCK L		FK28W16
26	AX605650	SLIDE SPRING		FK28R11
29	NX604300	FLYWHEEL ASS'y		FR22D11
31	CX672980	PINCH ROLLER ASS'y R		FR20L22
36	XX697410	SPECIAL SCREW	2.6x5	FG11414
37	AX613160	SPECIAL SCREW	7.7	UG15S11A
39	AX605640	E-RING		UG13U15
40	AX616830	SPECIAL SCREW	3x8	UG20B11
43	CX615200	CUSHION	HOLDER L	FF17C12
51	JX600430	SOLENOID ASS'y		F765263
52	AX611260	STEEL CORE		FL39H12A
53	JX600440	PLUNGER		FL39K12
61	AX616700	PLATE HOLD ASS'y		F573246
61-1	BX602340	HOLDER L ASS'y		FC58G12
61-2	BX602350	EJECT LEVER		FC58K11
61-3	AX616710	SPRING, EJECT ARM		FK31V11
61-7	XX636970	DAMPER ASS'y		FP47211
62	BX602360	HOLDER R		FC58H12
63	E1026046	BIND HEAD TAPPING SCREW	2.6x4 ZMC2-Y PACK	KG19428

*New Parts (新規部品)

Ref. NO.	PART NO.	Description	Remarks	Markets
64	CX672990	ARM, EJECT		FD50E13
65	AX613170	SPECIAL SCREW	4.7	UG14M31
66	XX684660	SPECIAL SCREW		UG14L11
70	CB069250	BINDING TIE		FH12613
NX610720 P.C.B. ASS'y, CONTROL				F567476
	XF557A00	IC	TA7291S	AH14N00
	IA093400	TRANSISTOR	2SA934	AT20CT00
	IX618190	ZENER DIODE	HZS7B3 7V	AV37BT00
	IX618200	ZENER DIODE	HZS3A1 3V	AV35AT00
	IX614400	DIODE	1SS252	AP13LT00
	NX608430	TERMINAL P.C.B		FP17V13
	IX618310	SENSOR	SPI-335-34-FG	AW13F00
	KX601080	PUSH SWITCH		UE16E11
	LX604840	CONNECTOR	12P	UY20E21

*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	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			

