

STEREO CASSETTE DECK KX-380

KX-380

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 any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

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

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

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

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

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YAMAHA
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P.O.Box1, Hamamatsu, Japan

3.1K-162 © Printed in Japan '94.5

■ TO SERVICE PERSONNEL

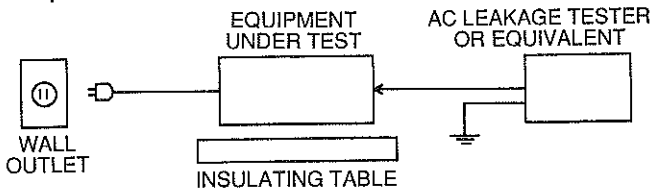
1. Critical Components Information.

Components having special characteristics are marked Δ 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 ohms 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.



■ 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!

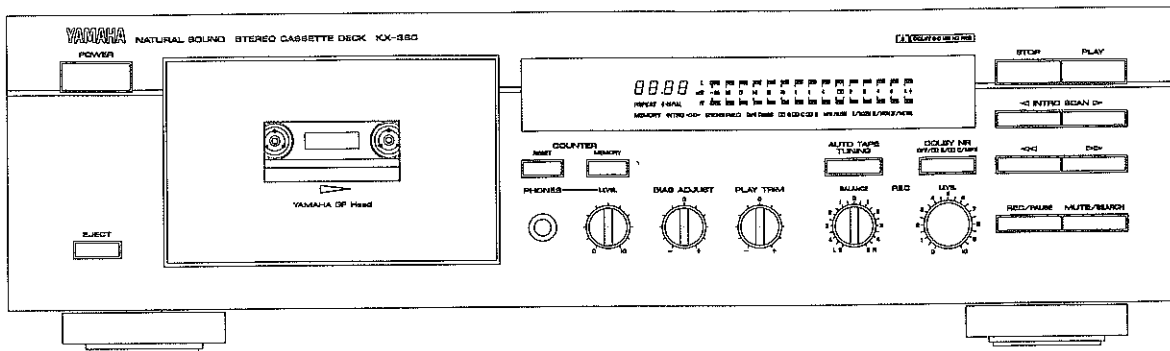
The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects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

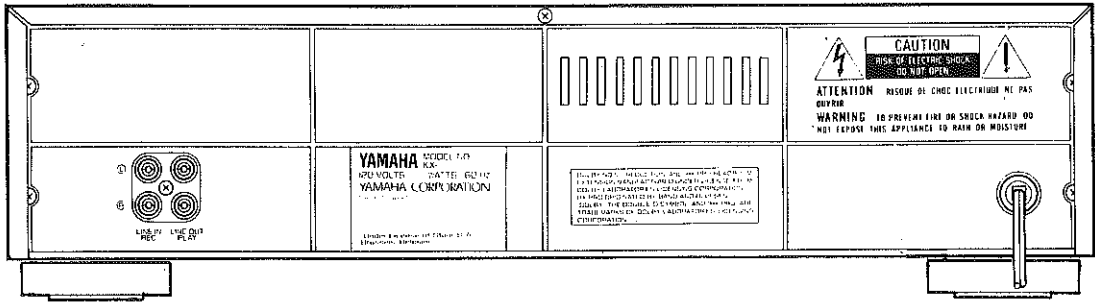
If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

■ FRONT PANEL

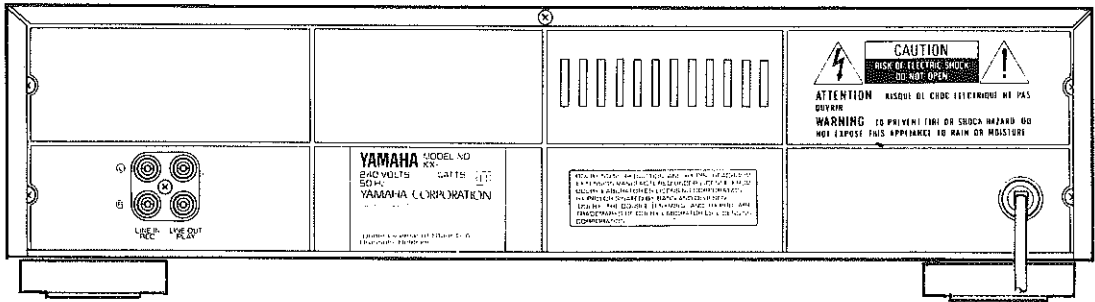


REAR PANELS

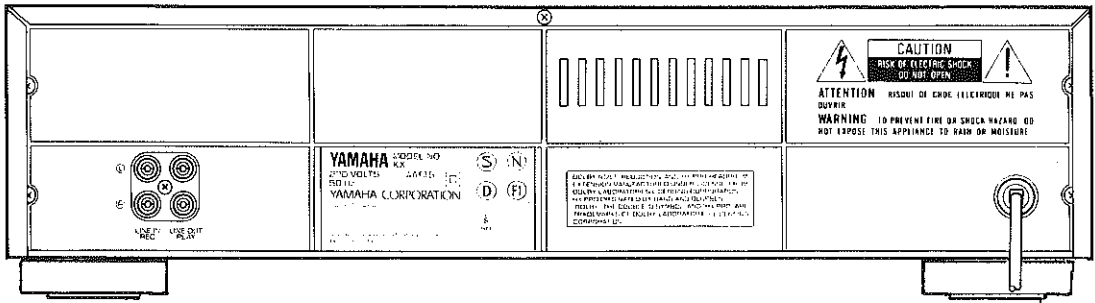
U, C models



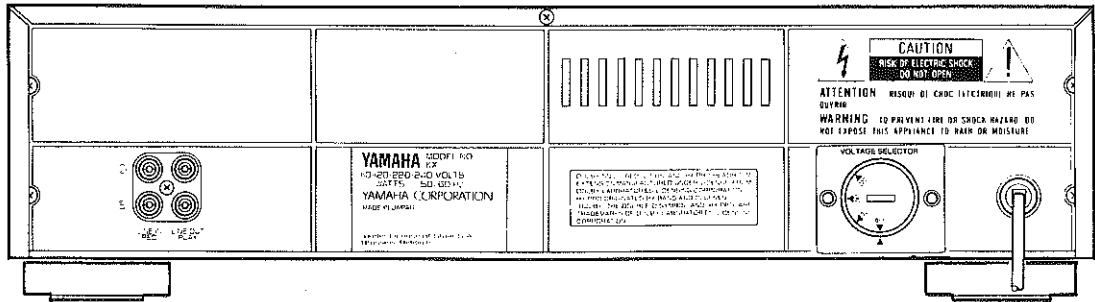
A, B models



G model



R model



KX-380

DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered)

1. Removal of Top Cover

- a. Remove 5 screws (①, ②) in fig. 1.

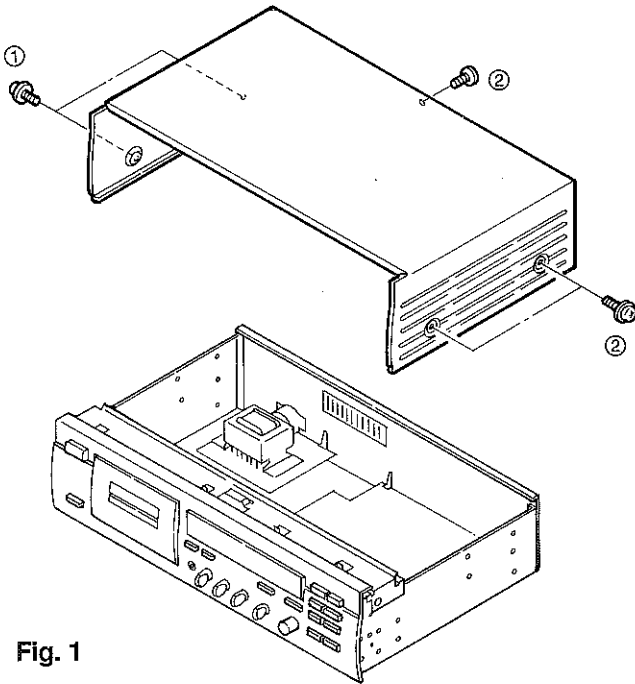


Fig. 1

2. Removal of Front Panel

- a. Remove 6 screws (③) in fig. 2.
- b. Remove 5 knobs (A, B) in fig. 2.
- c. Detach the hook and remove the main circuit board (4).
- d. Remove 1 connector (#3).

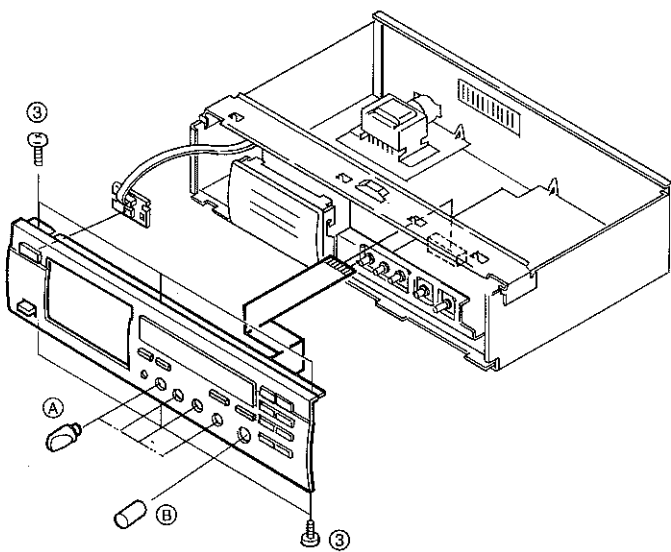


Fig. 2

3. Removal of Cassette Mechanism Unit

- a. Remove 4 screws (④) in fig. 3.
- b. Remove the cassette mechanism unit after sliding it toward the back.
- c. Remove 3 connectors (#1, #2, #5).

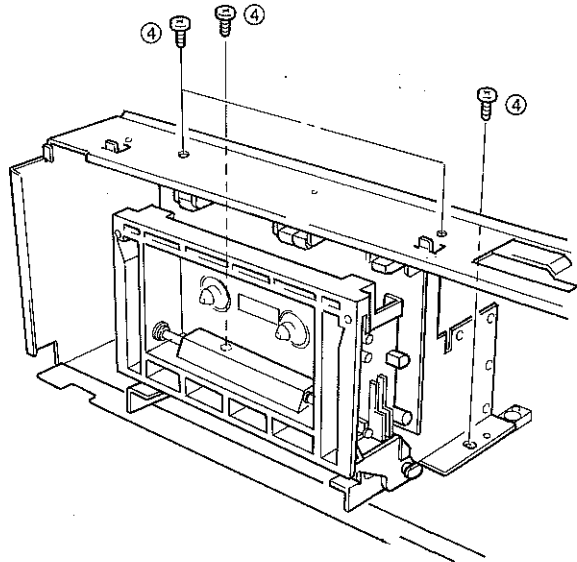


Fig. 3

4. Removal of Housing Ass'y

- a. Detach the spring in fig. 4.
- b. Remove lower part of the housing ass'y by pressing it to outside.
- c. Remove the housing ass'y from the damper arm.

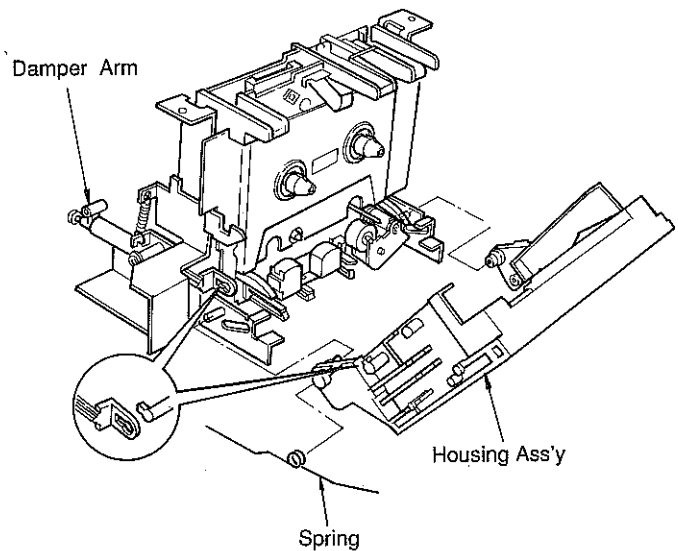


Fig. 4

5. Removal of Pinch Roller

a. Detach the hook in fig. 5 and remove the pinch roller.

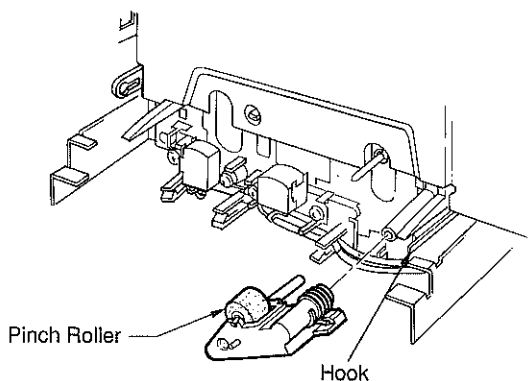


Fig. 5

8. Removal of Main Motor

a. Remove 2 screws (8) in fig. 8 and then remove the motor.

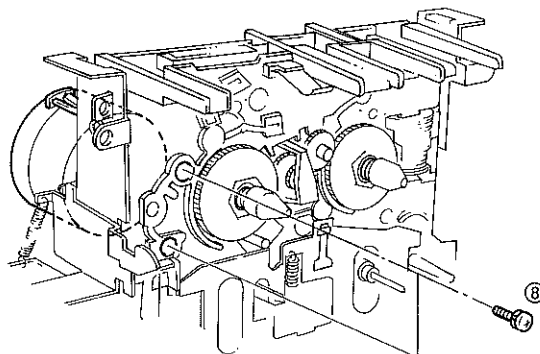


Fig. 8

6. Removal of Heads

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

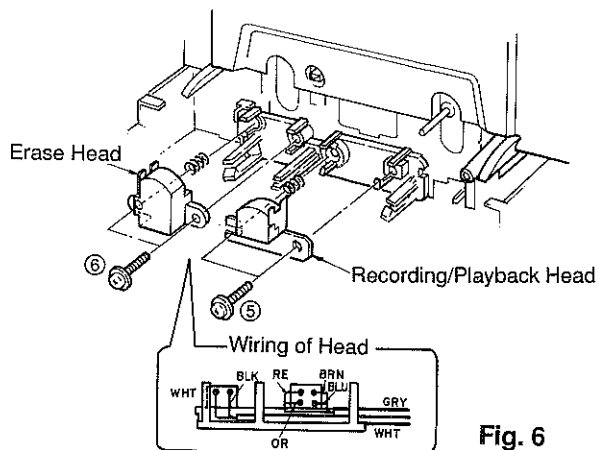
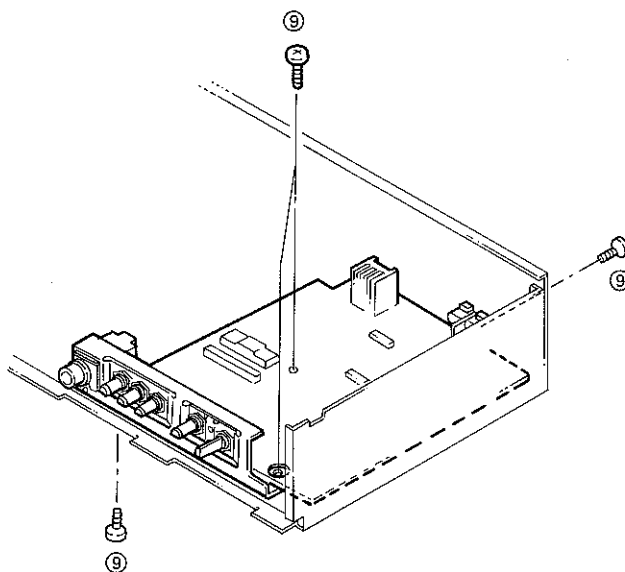


Fig. 6

9. Removal of Main Circuit Board (1)

a. Remove 4 screws (9) in fig. 9.



7. Removal of Back Plate

a. Remove 2 screws (C) in fig. 7 and then remove the back plate.

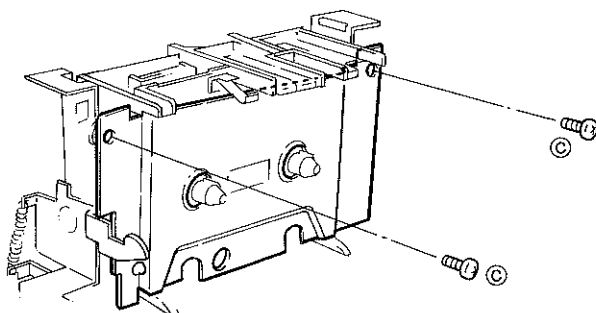


Fig. 7

■ SPECIFICATIONS

Track Configuration 4 track, 2 channel stereo
 Motor DC servo motor
 Heads ... Recording/Playback: GF Hard permalloy head
 Erase: Double-gap Ferrite head

Rapid Transport 100 sec. (C-60)

Wow and Flutter

WRMS 0.07%

W.Peak ±0.12%

Signal-to-Noise Ratio

Dolby NR off 58 dB

Dolby B on 66 dB

Dolby C on 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 0.8%

Input Sensitivity/Impedance

Line 100 mV/50 k-ohms

Output Level

Line 570 mV/1 k-ohms

Phones 1.5 mW/8 ohms

Channel Separation (1 kHz) 40 dB

Cross Talk (125 Hz) 55 dB

Remote Control Custom Code 7F

GENERAL

Power Supplies

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

Europe model 230 V, 50 Hz

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

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

Power Consumption 12 W

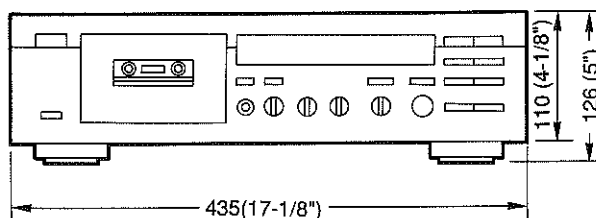
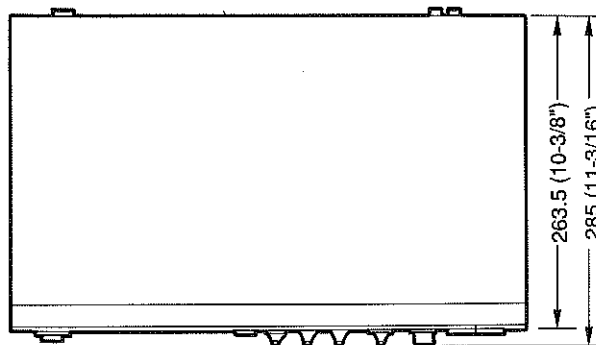
Dimensions (W x H x D) 435 x 126 x 285 mm
 (17-1/8" x 5" x 11-3/16")

Weight 4.4 kg (9 lbs. 11 oz)

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

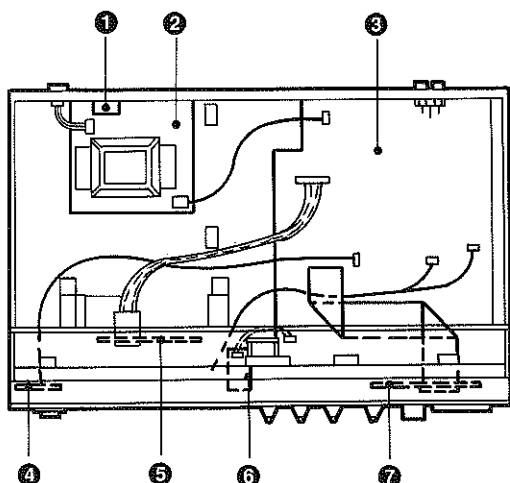
* Specifications are subject to change without notice.

■ DIMENSIONS



unit: mm (inch)

■ INTERNAL VIEW



- ① VOLTAGE SELECTOR (R model only)
- ② POWER TRANSFORMER CIRCUIT BOARD
- ③ MAIN CIRCUIT BOARD (1)
- ④ MAIN CIRCUIT BOARD (4)
- ⑤ CONTROL CIRCUIT BOARD
- ⑥ MAIN CIRCUIT BOARD (3)
- ⑦ MAIN CIRCUIT BOARD (2)

■ ADJUSTMENTS

1. Before Adjustment:

- Make sure that AC line voltage is within:

Models	AC line voltage
U, C	120 V ± 10%
G	230 V ± 10%
A, B	240 V ± 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
- Oscilloscope

3. Test tape required

- MTT-111N (TX911650): Tape Speed (3 kHz)
- MTT-114N (TX911680): Azimuth (10 kHz)
- MTT-212N (TX911660): Playback Level (250nWb/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 AC513 (TX911610)
METAL : TDK AC712 (TX911590)

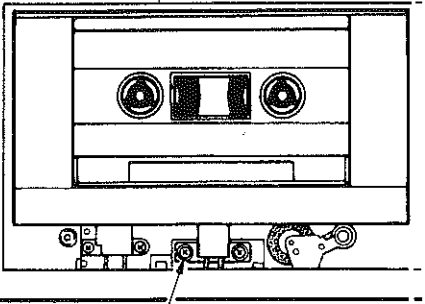
4. Data backup at power off (AC plug)

μ-COM backup data (about 2 weeks): Power ON/OFF, NR (MPX) MODE, TAPE COUNTER VALUE, TAPE TUNING

● 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 time	AC-224 (C-60)		FF REW		100 ± 15 seconds	
3	Azimuth	MTT-114 (10 kHz, -10 dB)	ACVM Oscilloscope	PLAY	Azimuth adjustment screw (Fig. A)	Playback level (Monaural output) is maximum and phase difference should be minimum. (Fig. B)	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 main motor. (Fig. C)	3000 Hz ± 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 0.15% (EIAJ, WRMS)	



Azimuth adjustment screw

Fig. A

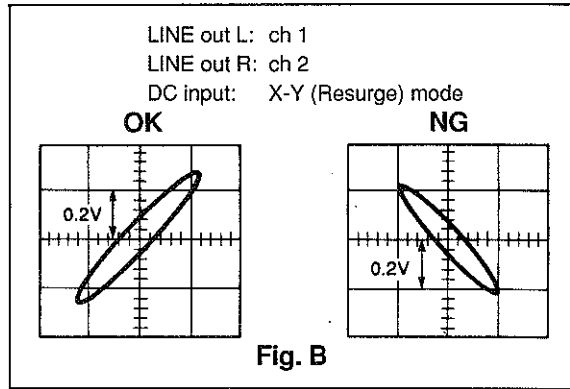


Fig. B

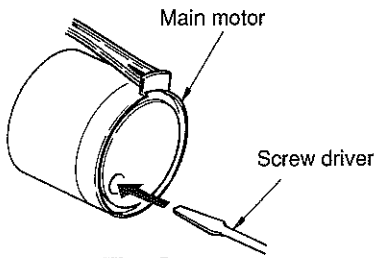


Fig. C

■ 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	VR3 (Lch) VR4 (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	VR1 (Lch) VR2 (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 jack is within the specification of Fig. D when test tape is played back.	0 dB ±4 dB

● PLAYBACK FREQUENCY RESPONSE

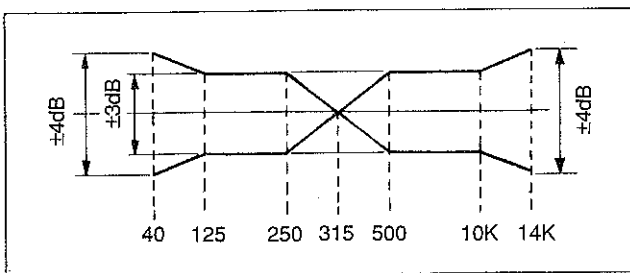


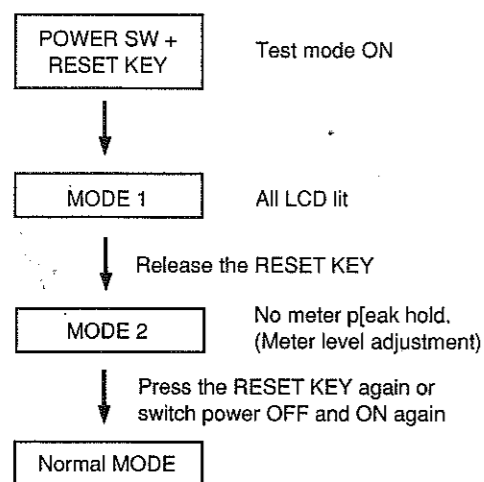
Fig. D

● 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	Measurement point	Adjustment point	Rating
1	Meter Level	Normal (AC224) (LH)	ACVM AF OSC	REC/ PAUSE PEAK HOLD OFF	1. Set FL display test mode to meter peak hold OFF. 2. Set REC LEVEL knob to maximum. 3. Input 315 Hz signal to LINE IN jack from AF OSC. Adjust output level of AF OSC so that the level of LINE OUT jack becomes -5 dBV.	Peak Level Meter	VR9 (Lch) VR10 (Rch)	Adjust VR to the minimum level where 0 dB segment (red) of peak level meter lights up.
2	Bias Oscillation Level (HXPRO)	HIGH (AC513) (CrO ₂)	DCVM	REC	1. Enter REC mode. 2. Connect DCVM between each TP-GND.	TP1-GND TP2-GND	L3 (Lch) L4 (Rch)	Adjust L3 and L4 so that DC voltage becomes minimum.
3	Recording Level	HIGH (AC513) (CrO ₂)	ACVM AF OSC	REC/ PAUSE	1. Set REC LEVEL knob to maximum. 2. Enter REC/PAUSE mode. 3. Input 315 Hz signal to LINE IN jack from AF OSC. Adjust REC LEVEL knob so that level of LINE OUT jack becomes -25 dBV.	LINE OUT	VR5 (Lch) VR6 (Rch)	Adjust VR so that level of LINE OUT jack becomes -25 dBV at playback.
				REC	4. Record the above-mentioned signal.			
				PLAY-BACK	5. Playback the recorded tape.			
4	Recording Bias	Normal (LH) High (CrO ₂) and METAL	ACVM AF OSC	REC/ PAUSE	1. Set REC LEVEL knob to maximum. 2. Enter REC/PAUSE mode. 3. Input 14 kHz signal to LINE IN jack from AF OSC. Adjust the level of LINE OUT jack so that the level becomes -25 dBV.	LINE OUT	VR7 (Lch) VR8 (Rch)	Adjust VR so that level of LINE OUT jack satisfies Fig. E when a tape, recorded at -25 dBV at playback.
				REC	4. Record the above-mentioned signal.			
				PLAY-BACK	5. Playback the recorded tape.			

FL DISPLAY TEST MODE

Enter the TEST MODE by pressing the POWER SW while pressing the RESET KEY when the power is OFF.



● TOTAL FREQUENCY RESPONSE (-20dBV)

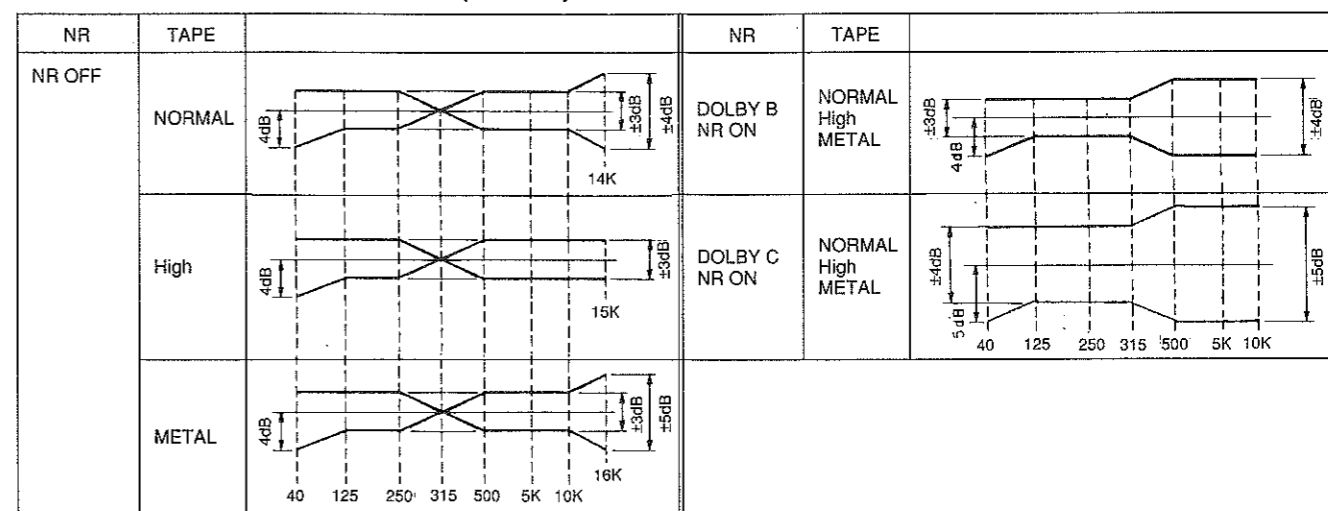
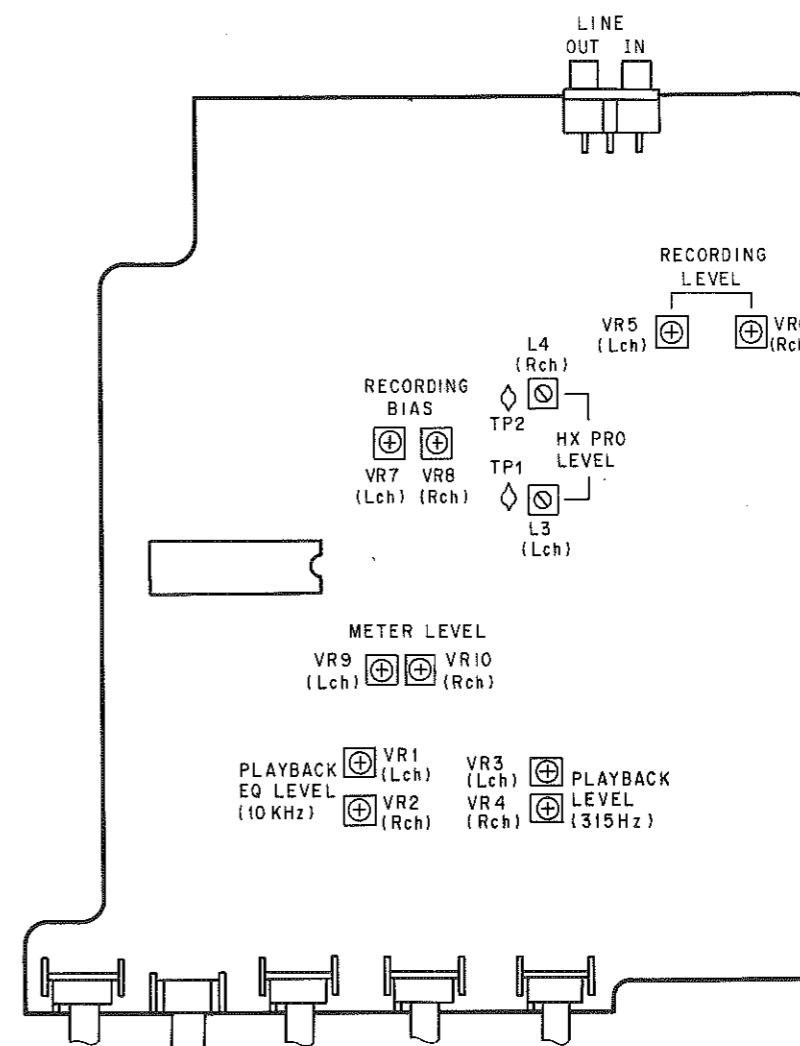
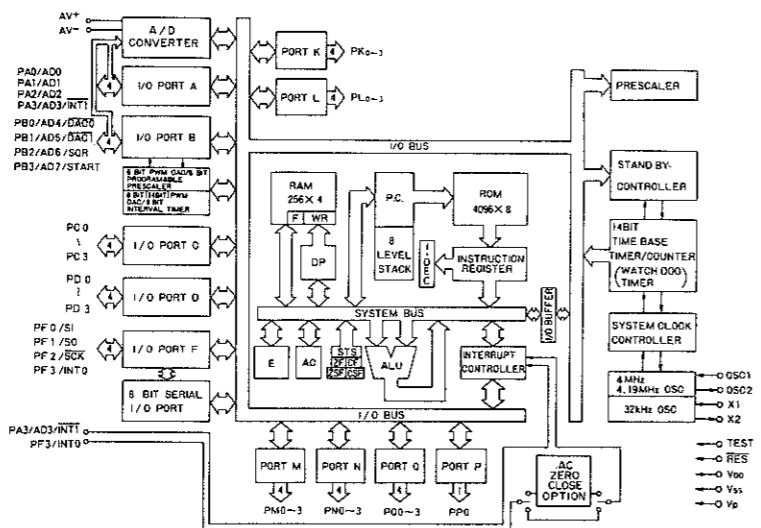
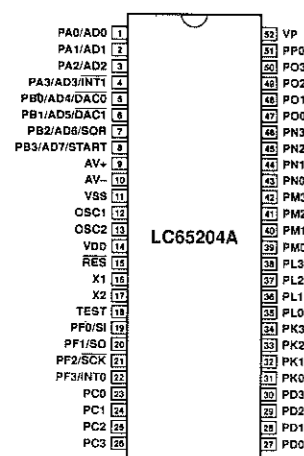


Fig. E

● TEST POINT



μ-COM DATA
IC12 : LC65204A
4 bit μ-COM



NO	PORT	FUNCTION	LOGIC	NO	PORT	FUNCTION	LOGIC
1	PA0	OPERATION KEY (1)	A/D	27	PD0	LINE MUTE	H:ON
2	PA1	OPERATION KEY (2)	A/D	28	PD1	REC MUTE	H:ON
3	PA2	METER INPUT (L)	A/D	29	PD2	DOLBY 1 (DOLBY ON/OFF)	H:OFF
4	PA3	METER INPUT (R)	A/D	30	PD3	DOLBY 2 (DOLBY C ON/OFF)	H:OFF
5	PB0	MECHA SW	A/D	31	PK0	MPX FILTER	H:ON
6	PB1	MECHA SW & TIMER	A/D	32	PK1	REC/PB SELECT	H:PB
7	PB2	REEL PULSE		33	PK2	FL FILAMENT ON/OFF	H:ON
8	PB3	POWER PULSE		34	PK3	FL SEGMENT 9	H:ON
9	AV+	+5V		35	PL0	FL SEGMENT 8	H:ON
10	AV-	GND		36	PL1	FL SEGMENT 7	H:ON
11	VSS	GND		37	PL2	FL SEGMENT 6	H:ON
12	OSC1	4MHz		38	PL3	FL SEGMENT 5	H:ON
13	OSC2	4MHz		39	PM0	FL SEGMENT 4	H:ON
14	VDD	+5V		40	PM1	FL SEGMENT 3	H:ON
15	RES	RESET		41	PM2	FL SEGMENT 2	H:ON
16	X1	+5V		42	PM3	FL SEGMENT 1	H:ON
17	X2	OPEN		43	PN0	FL DIGIT 1	H:ON
18	TEST	GND		44	PN1	FL DIGIT 2	H:ON
19	PF0	PORT EXPANDER IC (CLOCK)		45	PN2	FL DIGIT 3	H:ON
20	PF1	PORT EXPANDER IC (DATA)		46	PN3	FL DIGIT 4	H:ON
21	PF2	BIAS	H:ON	47	PO0	FL DIGIT 5	H:ON
22	PF3	REMOCON INPUT		48	PO1	FL DIGIT 6	H:ON
23	PC0	MECHA DRIVE	CM	49	PO2	FL DIGIT 7	H:ON
24	PC1	MECHA DRIVE	SOLENOID	50	PO3	FL DIGIT 8	H:ON
25	PC2	GND (47k)		51	PP0	FL DIGIT 9	H:ON
26	PC3	HEAD SELECT	H:REC	52	Vp	-21V	

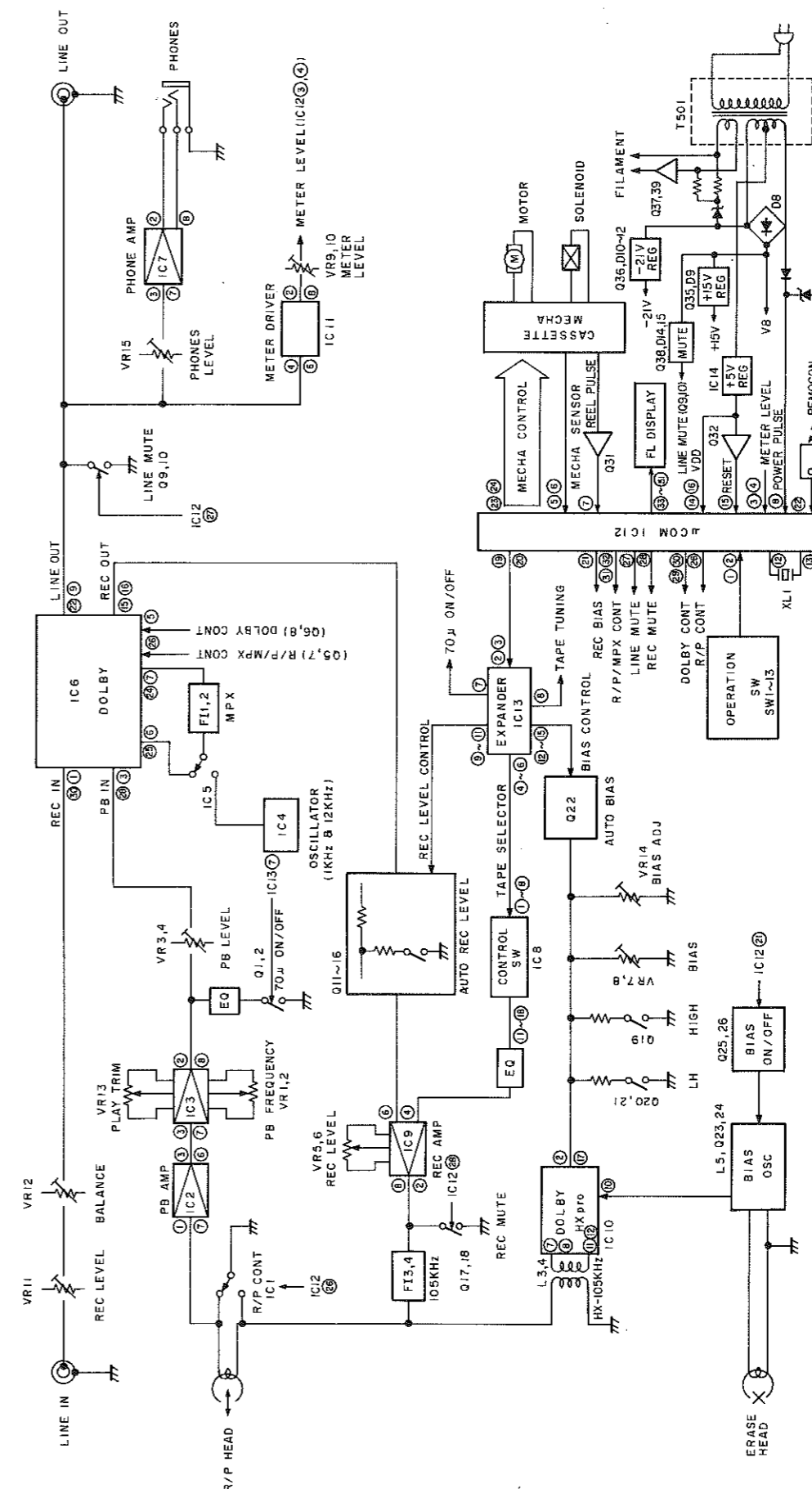
● OUTPUT OF EXPANDER (IC13)-PORT

4 PIN	LH	H:ON	10 PIN	LEVEL 3
5 PIN	HIGH	H:ON	11 PIN	LEVEL 4
6 PIN	METAL	H:ON	12 PIN	BIAS 1
7 PIN	70	H:ON	13 PIN	BIAS 2
8 PIN	TAPE TUNING		14 PIN	BIAS 3
9 PIN	LEVEL 1		15 PIN	BIAS 4

● CONDITION OF OUTPUT PORT IN DECK MODE

NO	NAME	STOP	PLAY	FF/REW	SEARCH	REC PAUSE	REC
21	BIAS	H	H	H	H	H	L
27	LINE MUTE	L	L	H	L	H	H
28	REC MUTE	H	H	H	H	H	L
32	REC/PB SELECT	H	H	H	H	L	L

■ BLOCK DIAGRAM



PRINTED CIRCUIT BOARD (Pattern side view) KX-380

MAIN P.C.B (1)

MAIN P.C.B (4)

MAIN P.C.B (3)

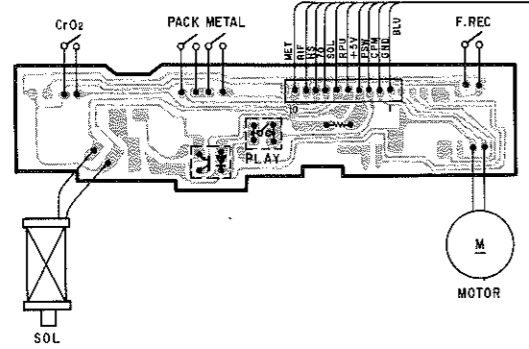
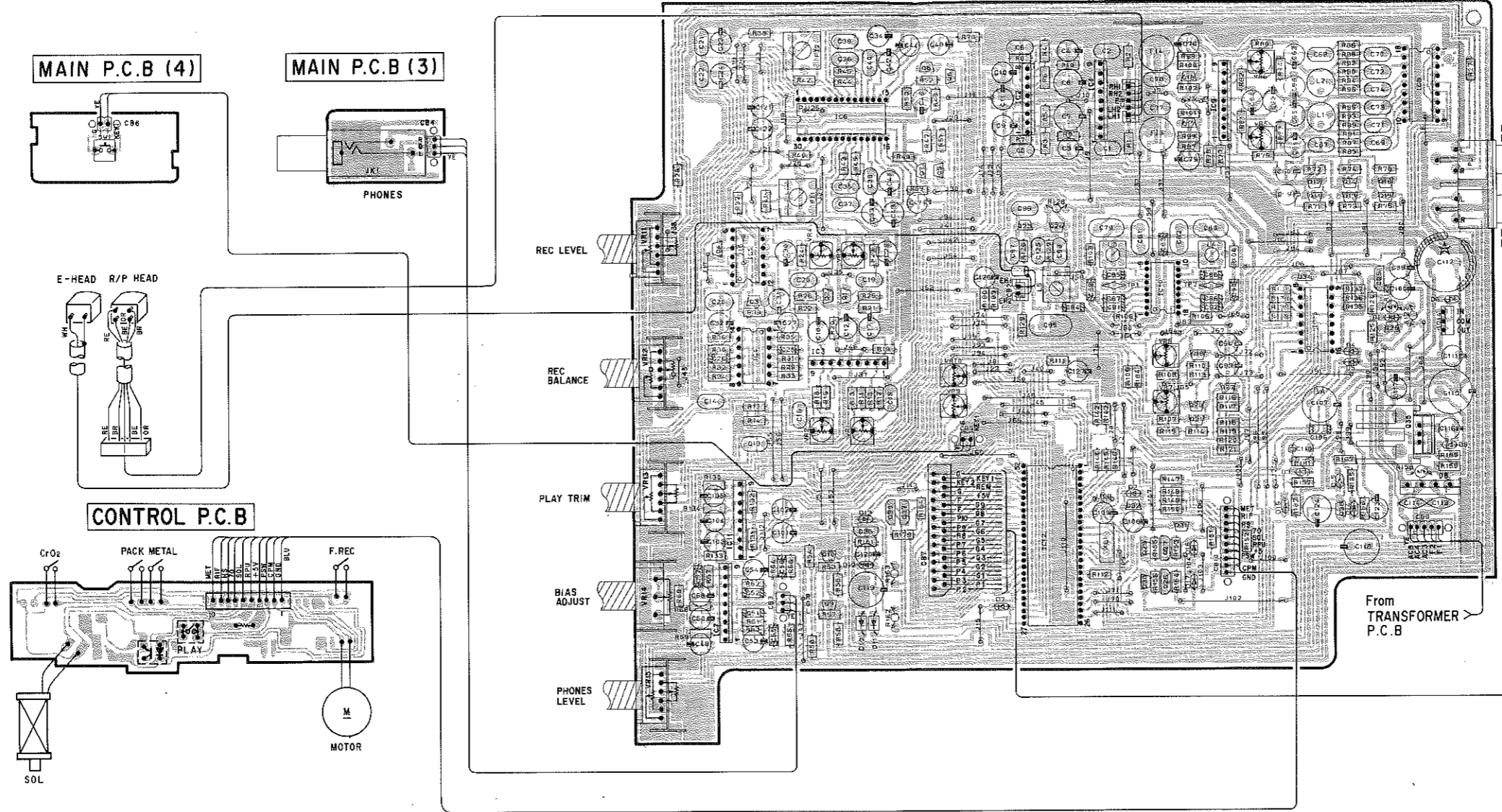
E-HEAD R/P HEAD

CONTROL P.C.B

MAIN P.C.B (2)

Component Location

Ref. No.	Location	Ref. No.	Location
IC 1	F 2	D 1	G 3
IC 2	F 2	D 2	F 4
IC 3	E 3	D 3	G 4
IC 4	D 3	D 4	G 3
IC 5	D 3	D 5	G 3
IC 6	E 2	D 6	H 3
IC 7	D 4	D 7	F 4
IC 8	H 2	D 8	H 4
IC 9	G 2	D 9	H 3
IC10	F 3	D 10	E 4
IC11	D 4	D 11	E 4
IC12	F 4	D 12	E 4
IC13	G 3	D 13	E 4
IC14	H 3	D 14	G 4
		D 15	G 4
		D 16	F 4
		D 17	F 6
		D 18	G 4
Q 1	E 3		
Q 2	E 3		
Q 3	D 3		
Q 4	D 3	VR 1	E 3
Q 5	E 2	VR 2	E 3
Q 6	E 2	VR 3	E 3
Q 7	E 2	VR 4	E 3
Q 8	E 2	VR 5	G 2
Q 9	E 4	VR 6	G 2
Q 10	E 4	VR 7	F 3
Q 11	G 2	VR 8	F 3
Q 12	G 2	VR 9	E 3
Q 13	G 2	VR 10	E 3
Q 14	G 2	VR 11	D 3
Q 15	G 2	VR 12	D 3
Q 16	G 2	VR 13	D 4
Q 17	F 2	VR 14	D 4
Q 18	F 2	VR 15	D 5
Q 19	F 3		
Q 20	F 3		
Q 21	F 3		
Q 22	G 3		
Q 23	F 2		
Q 24	F 2		
Q 25	G 3		
Q 26	G 3		
Q 27	F 4		
Q 28	F 4		
Q 29	F 4		
Q 30	F 4		
Q 31	F 4		
Q 32	F 4		
Q 34	G 3		
Q 35	H 3		
Q 36	E 4		
Q 37	E 4		
Q 38	H 4		
Q 39	E 4		

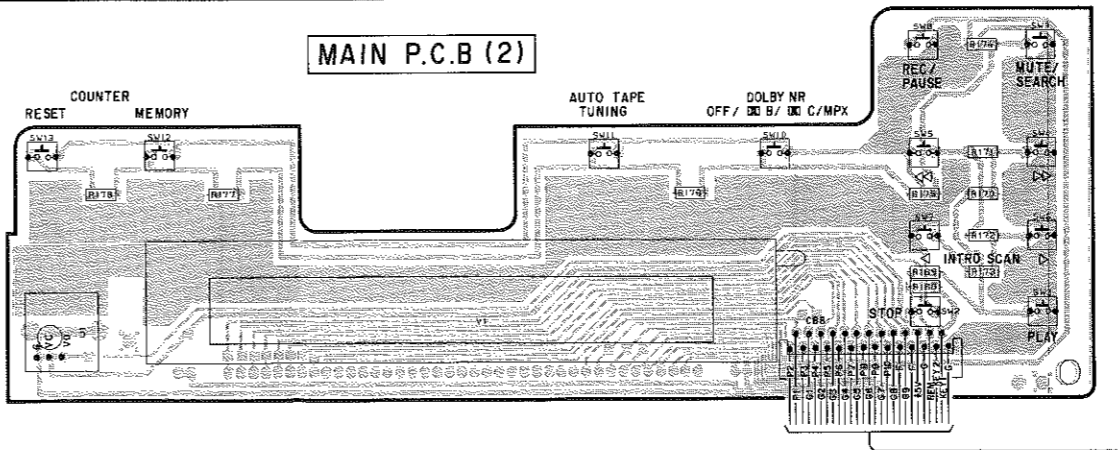
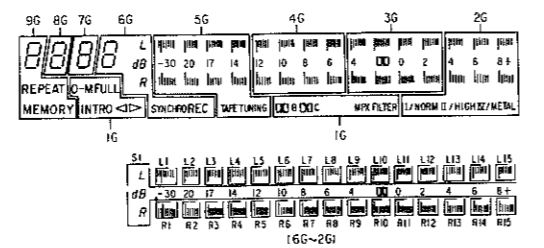
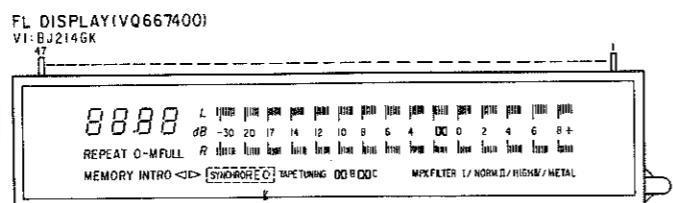


PIN CONNECTION

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
CONNECTION	F1	F1	-	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1		
PIN NO	15	34	35	36	37	38	39	40	41	42	43	44	45	46	47
CONNECTION	NC	IG	IG	2G	3G	4G	5G	6G	7G	8G	9G	-	-	F2	F2

ANODE CONNECTION

	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	o	o	o	o	L1	L5	L9	L13	O-M
P2	b	b	b	b	L2	L6	L10	L14	FULL
P3	c	c	c	c	L3	L7	L11	L15	INTRO
P4	d	d	d	d	L4	L8	L12	INTRO	
P5	e	e	e	e	R1	R5	R9	R13	
P6	f	f	f	f	R2	R6	R10	R14	DOB
P7	g	g	g	g	R3	R7	R11	R15	DOC
P8	REPEAT	-	O	SYNCHRO	R4	R8	R12	BIAS/HIGH	-
P9	MEMORY	-	REC	STOP	-	-	-	BIAS	PLAY
P10	-	-	-	S1	S1	S1	S1	S1	-

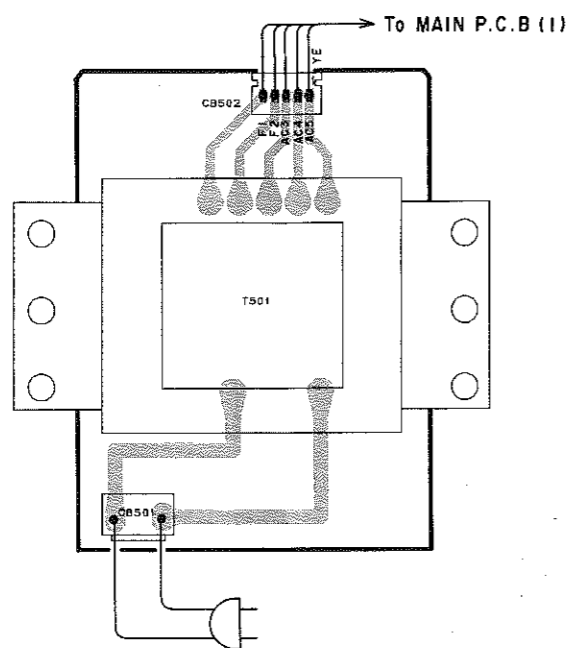


■ PRINTED CIRCUIT BOARD (Pattern side view)

KX-380

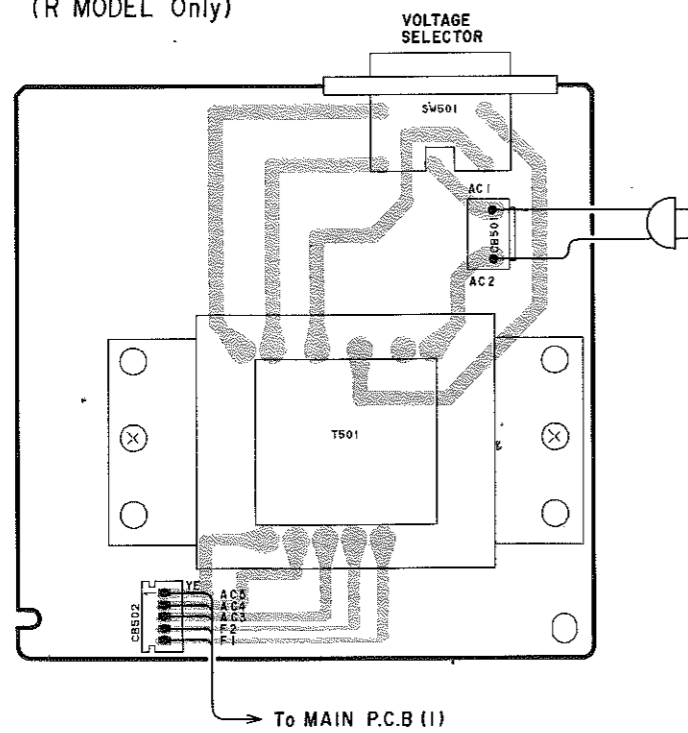
TRANSFORMER P.C.B

(Except R MODEL)



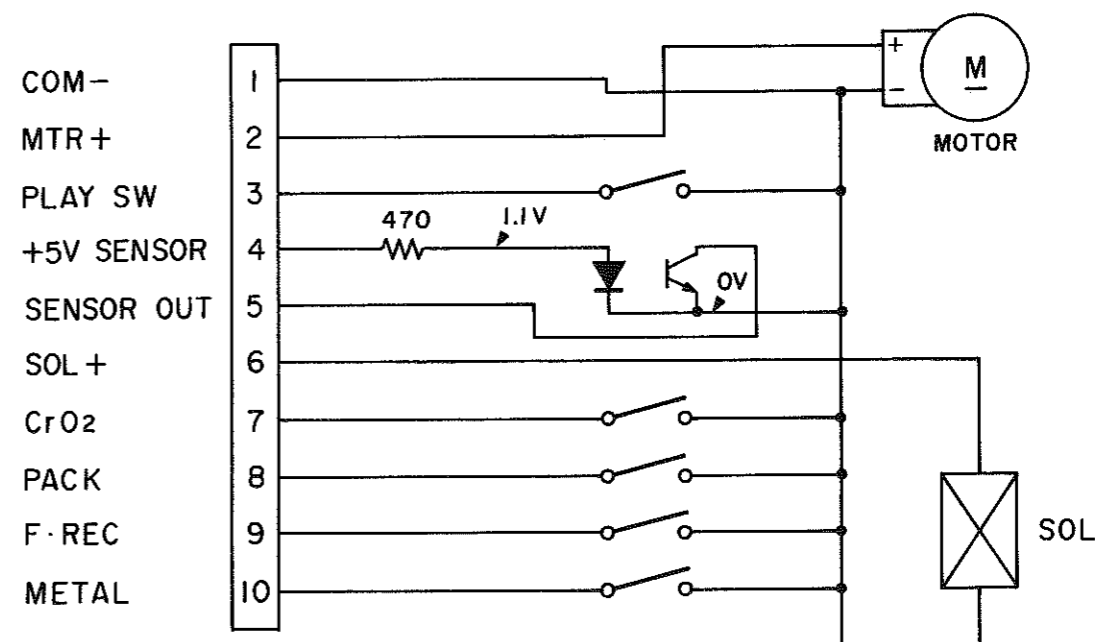
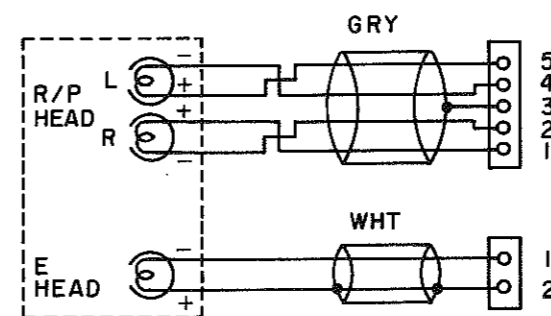
TRANSFORMER P.C.B

(R MODEL Only)



■ SCHEMATIC DIAGRAM (Cassette Mechanism)

KX-380



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SCHEMATIC DIAGRAM

KX-380

RESISTOR	
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
■	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊗	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

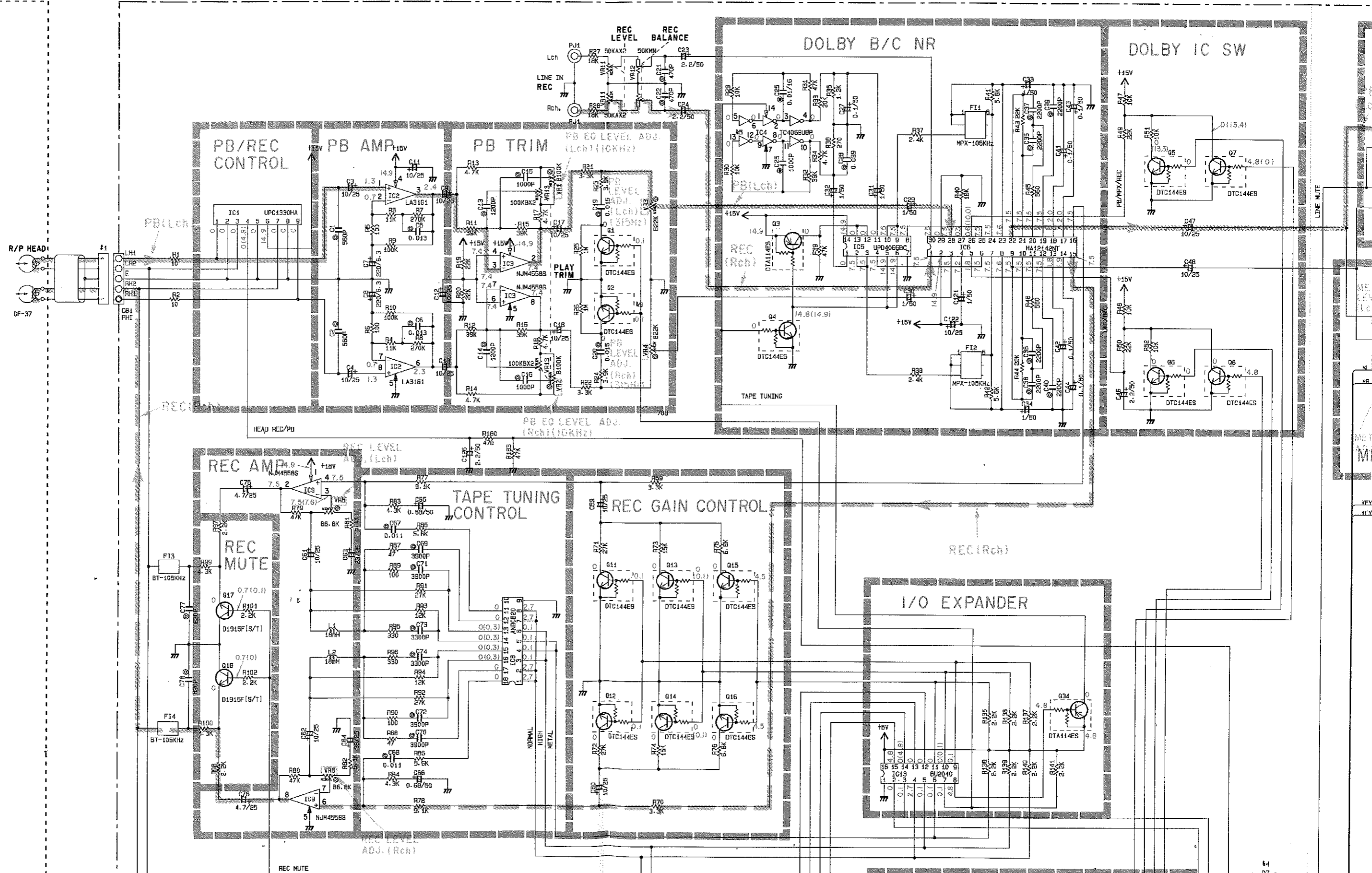
CAPACITOR	
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	CERAMIC TUBULAR CAPACITOR
○	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
○	MICA CAPACITOR
○	POLYPROPYLENE FILM CAPACITOR
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR

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

Interchangeable Parts at Manufacture-Stage

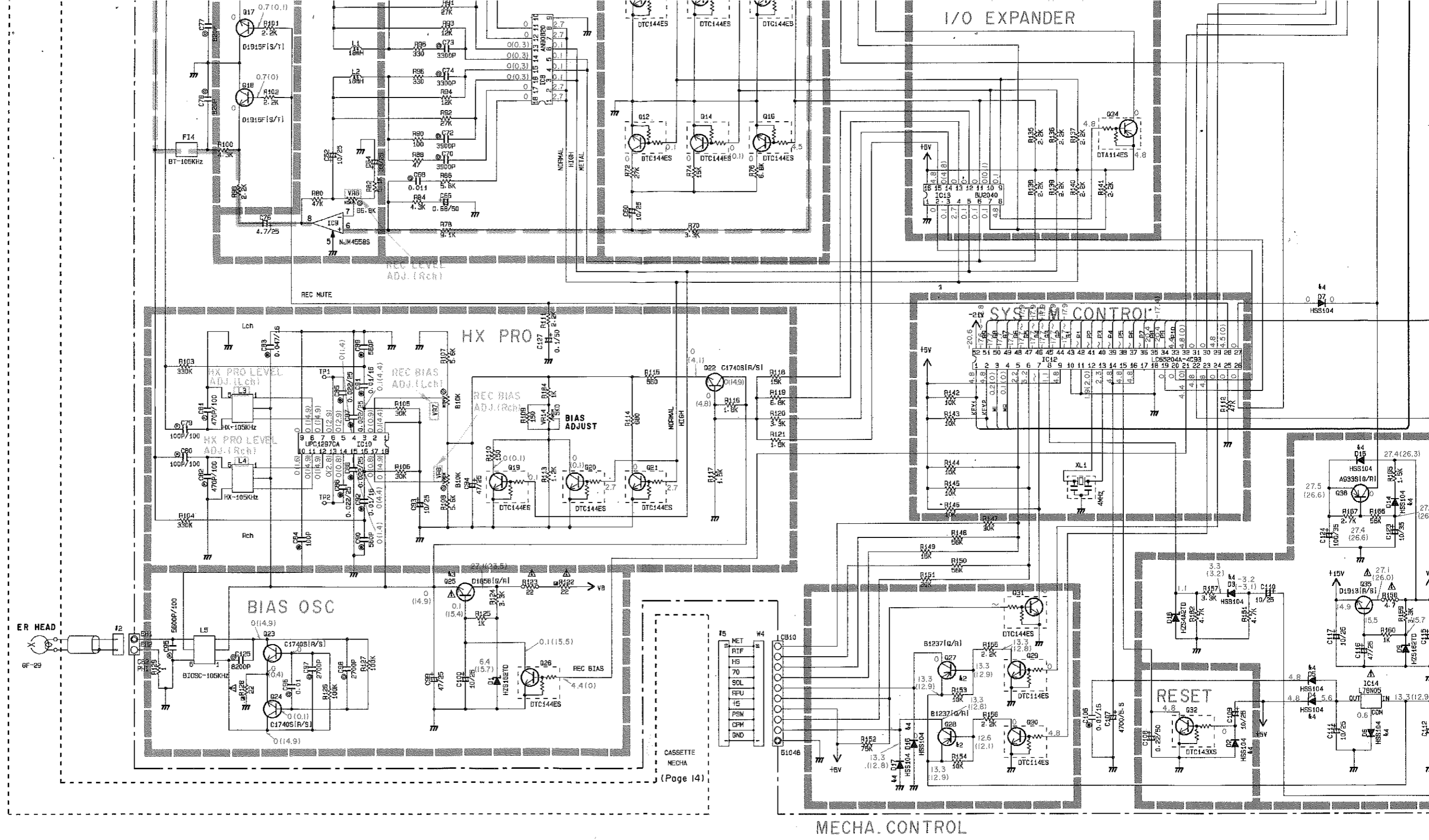
Mark	Reference Parts Number	Parts Name
k1		
k2	027-28-36	2581237(Q/R) 25A1674(R/S)
k3	025-37-39	25D1859(Q/R) 25C4391(R/S)
k4	02-7-14-17	H5S104 15S139 H5S176

45	IC4	TC4069UEP UPD4069C
46		
47		

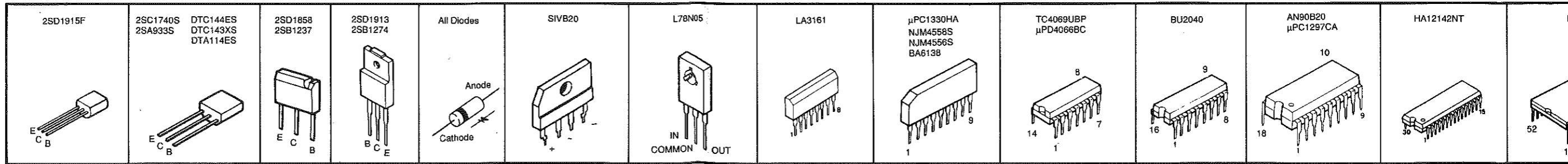


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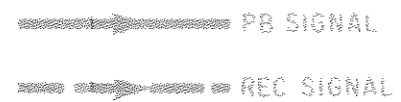
PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



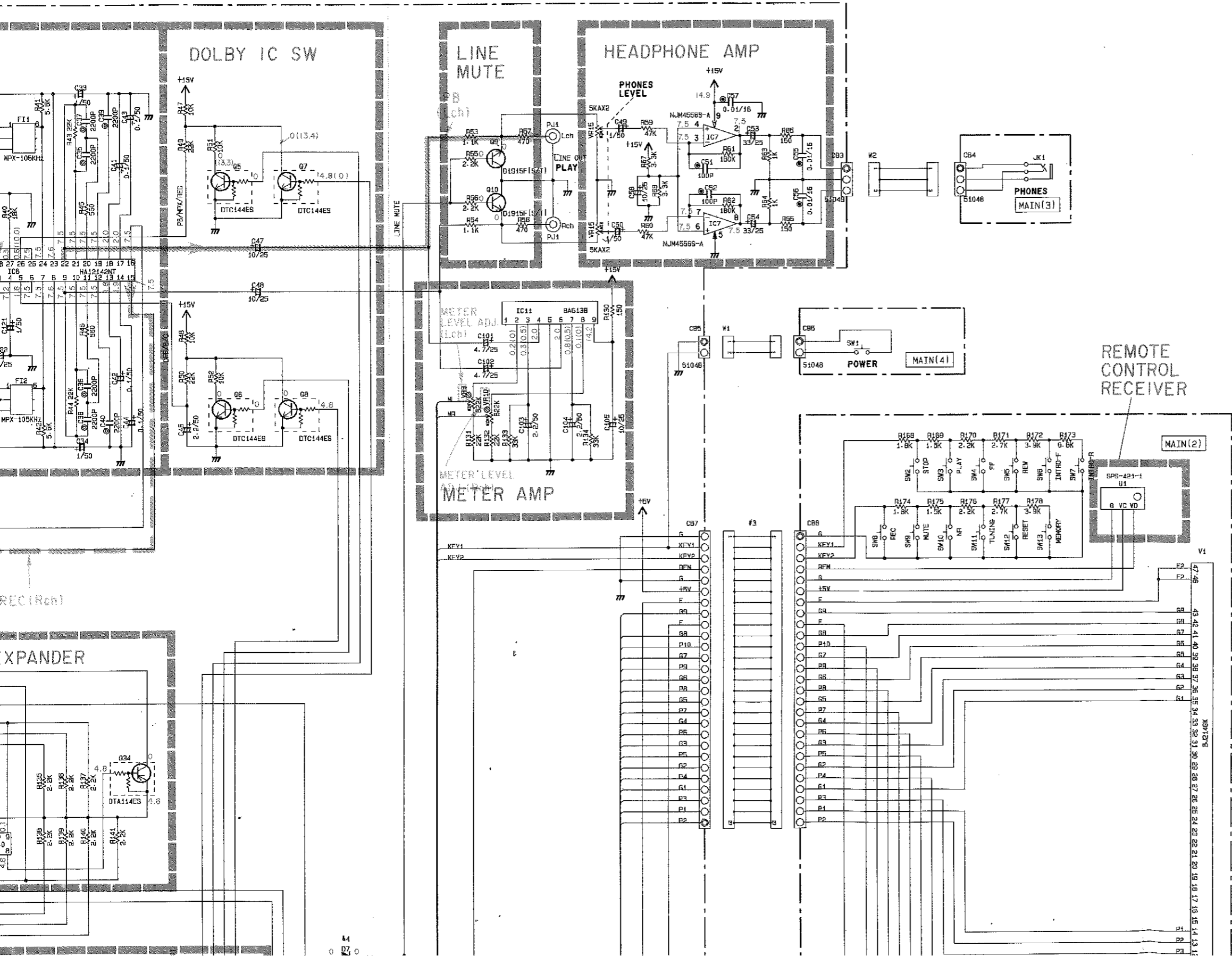
10

Manufacture-Stage		
Parts	Name	
25B1237(G/R)		
25A1674(R/S)		
25D1656(G/R)		
25C4391(R/S)		
H33104		
1S3133		
H55175		

45	IC4	TC4069UBP UPD4069C
46		
47		

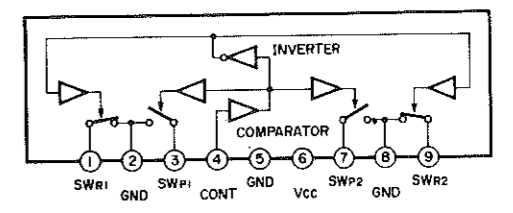


The voltages are measured by LH tape at PLAY mode (no signal condition).
Only the voltage () are at REC mode.

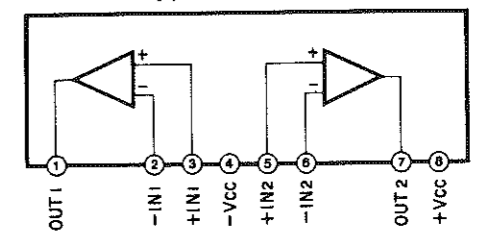


IC BLOCK

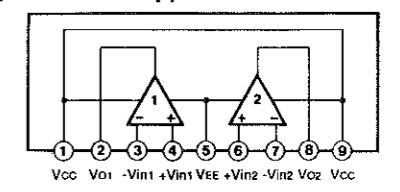
IC1: μ PC1330HA
(2ch Head Selector Switch)



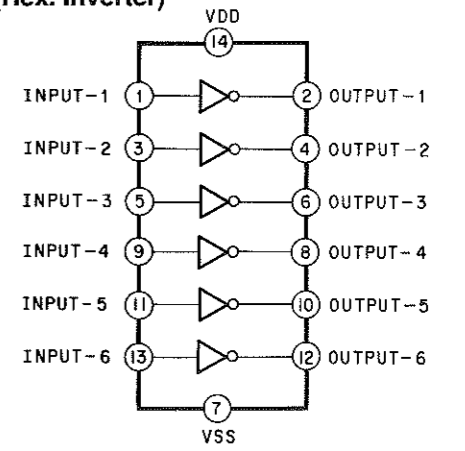
IC2: LA3161
(dual OP-Amp)



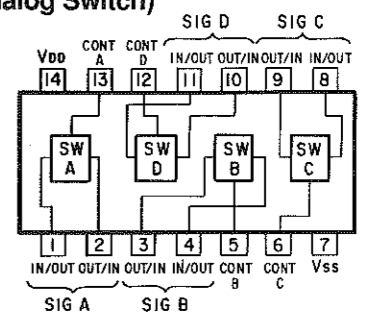
IC2: NJM2043S-D
IC3,6: NJM4558S
IC7: NJM4556S-A
(Dual OP-Amp)



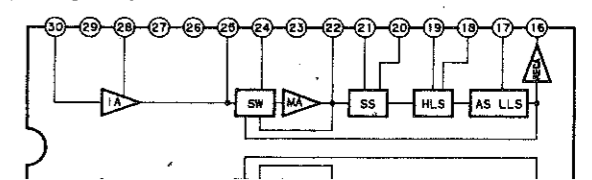
IC4: TC4069UBP
(Hex. Inverter)

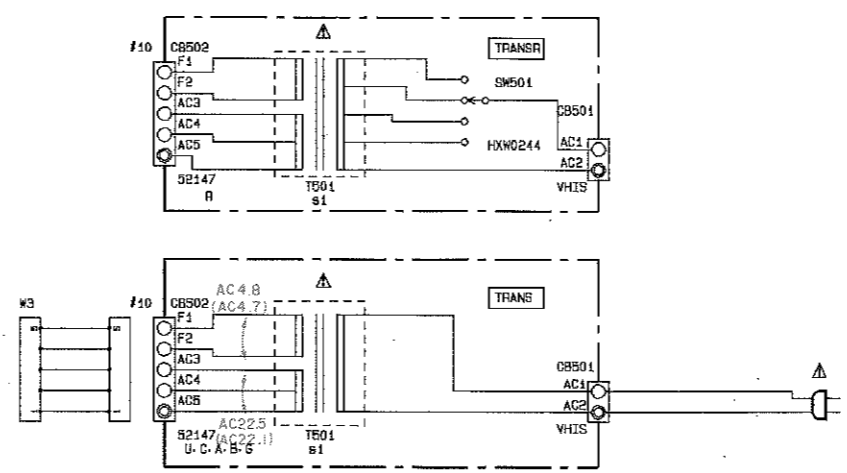
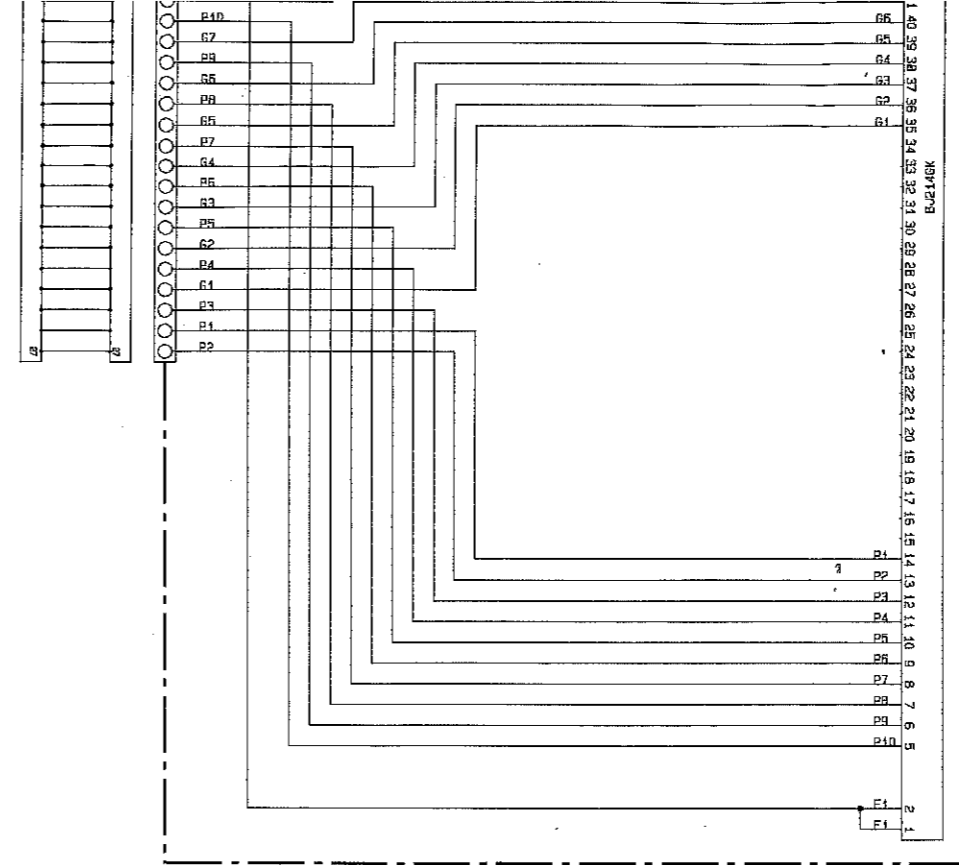
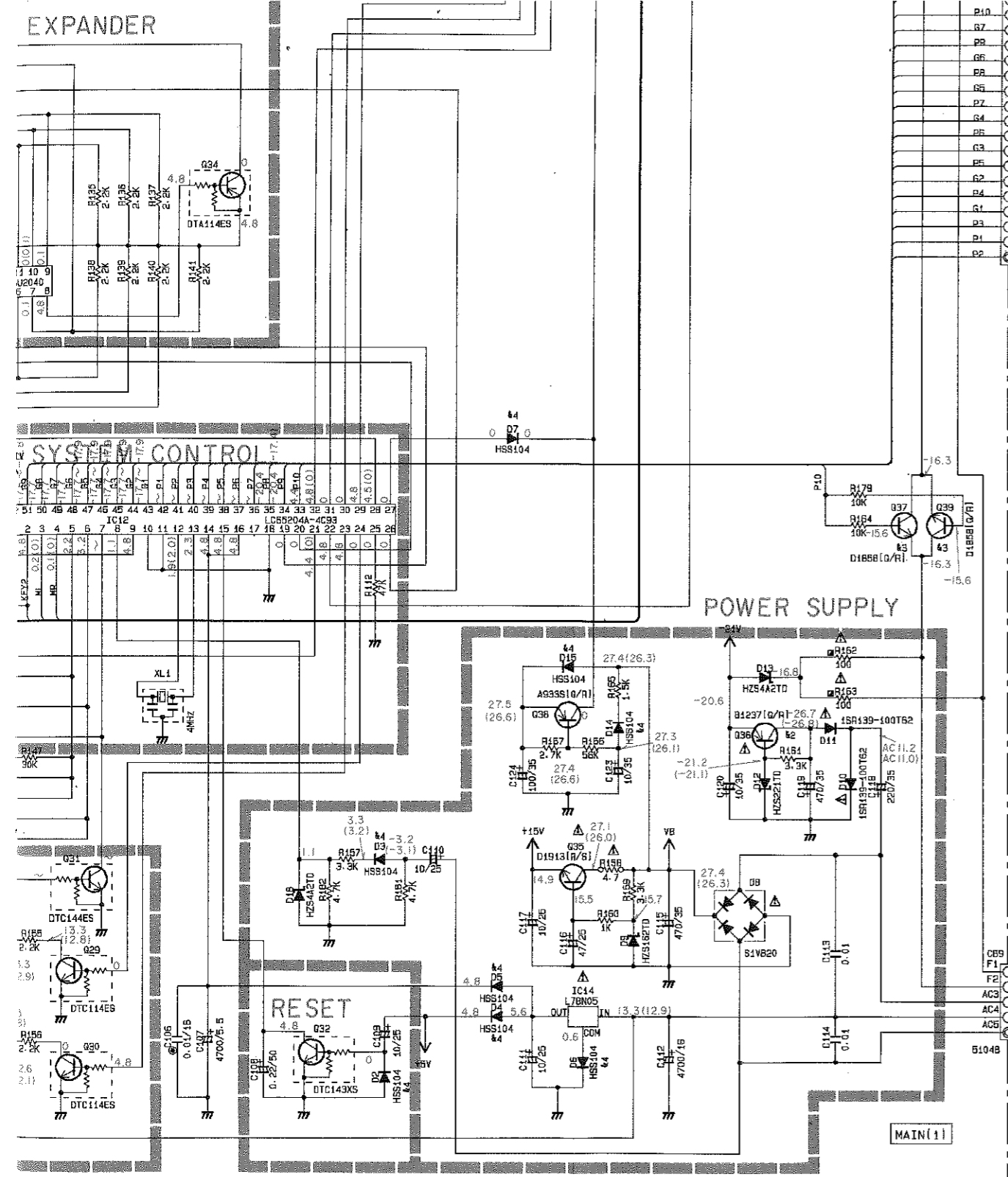


IC5: μ PD4066BC
(Analog Switch)



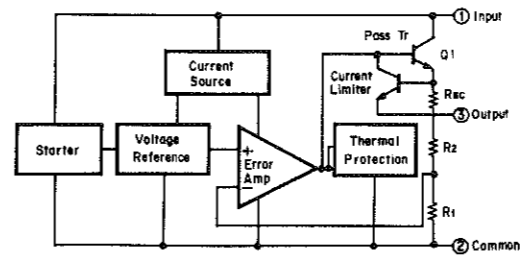
IC6: HA12142NT
(Dolby NR)



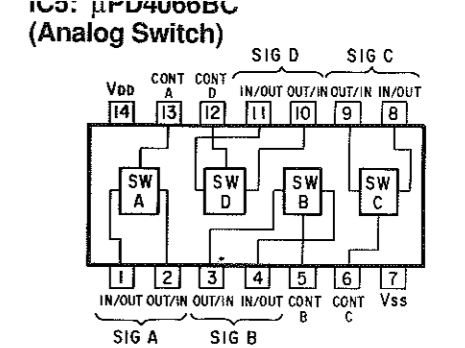


s1	U.C	R	A.B	G
	XN501	XN502	XN503	XN504

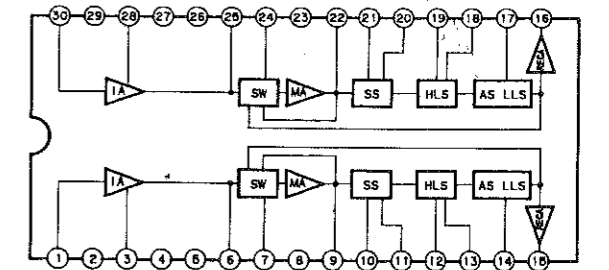
IC14: L78N05 (+5V Regulator)



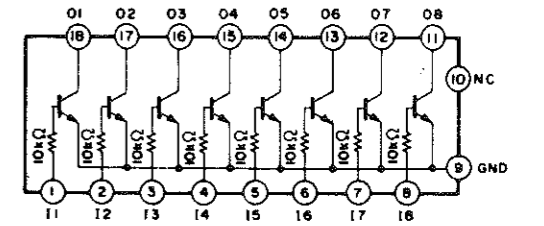
- All voltages are measured with a 10MΩ/V DC electric volt meter.
- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- Schematic diagram is subject to change without notice.



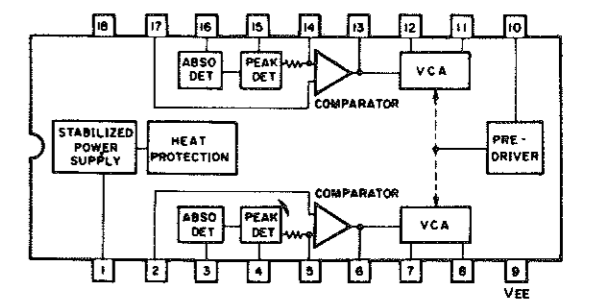
IC6: HA12142NT (Dolby NR)



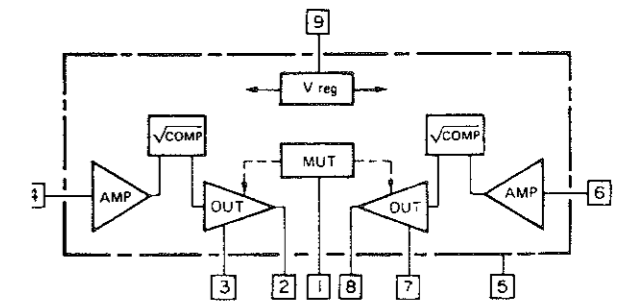
IC8: AN90B20 (Transistor Array)



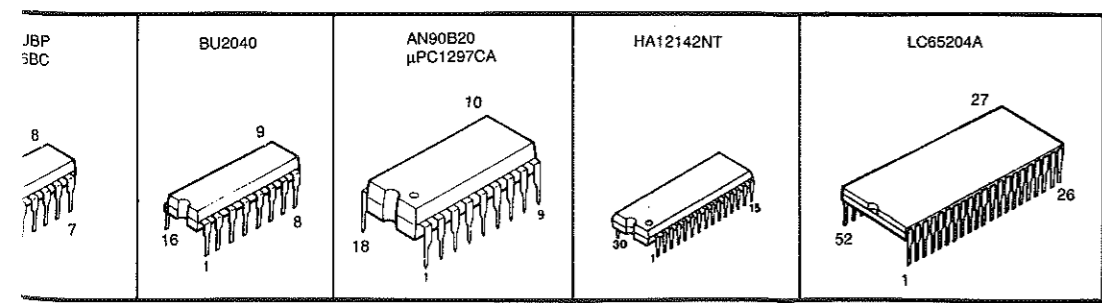
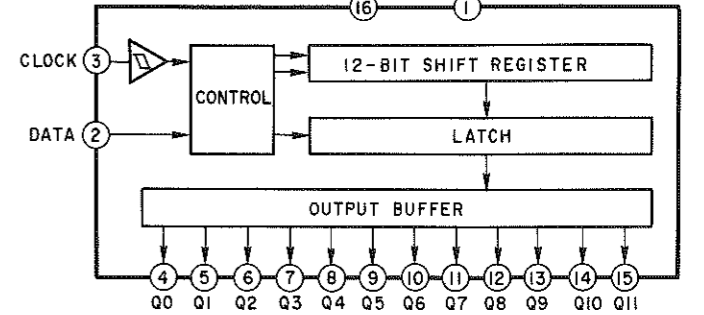
IC10: μPC1297CA (HX-PRO)



IC11: BA6138 (1/2W Power of compressor Amp.)



IC13: BU2040 (I/O Expander)



PARTS LIST

■ ELECTRICAL PARTS

■ WARNING

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

- Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List. For the parts No. of the carbon resistors, refer to last page.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

C.A.EL.CHP	: CHIP ALUMI. ELECTROLYTIC CAP	L.EMIT	: LIGHT EMITTING MODULE
C.CE	: CERAMIC CAP	LED.DSPLY	: LED DISPLAY
C.CE.ARRAY	: CERAMIC CAP ARRAY	LED.INFRD	: LED, INFRARED
C.CE.CHP	: CHIP CERAMIC CAP	MODUL.RF	: MODULATOR, RF
C.CE.ML	: MULTILAYER CERAMIC CAP	PHOT.CPL	: PHOTO COUPLER
C.CE.M.CHP	: CHIP MULTILAYER CERAMIC CAP	PHOT.INTR	: PHOTO INTERRUPTER
C.CE.SAFTY	: RECOGNIZED CERAMIC CAP	PHOT.RFLCT	: PHOTO REFLECTOR
C.CE.TUBLR	: CERAMIC TUBULAR CAP	PIN.TEST	: PIN, TEST POINT
C.CE.SMI	: SEMI CONDUCTIVE CERAMIC CAP	PLST.RIVET	: PLASTIC RIVET
C.EL	: ELECTROLYTIC CAP	R.ARRAY	: RESISTOR ARRAY
C.MICA	: MICA CAP	R.CAR	: CARBON RESISTOR
C.ML.FLM	: MULTILAYER FILM CAP	R.CAR.CHP	: CHIP RESISTOR
C.MP	: METALLIZED PAPER CAP	R.CAR.FP	: FLAME PROOF CARBON RESISTOR
C.MYLAR	: MYLAR FILM CAP	R.FUS	: FUSABLE RESISTOR
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP	R.MTL.CHP	: CHIP METAL FILM RESISTOR
C.PAPER	: PAPER CAPACITOR	R.MTL.FLM	: METAL FILM RESISTOR
C.PLS	: POLYSTYRENE FILM CAP	R.MTL.OXD	: METAL OXIDE FILM RESISTOR
C.POL	: POLYESTER FILM CAP	R.MTL.PLAT	: METAL PLATE RESISTOR
C.POLY	: POLYETHYLENE FILM CAP	RSNR.CE	: CERAMIC RESONATOR
C.PP	: POLYPROPYLENE FILM CAP	RSNR.CRYS	: CRYSTAL RESONATOR
C.TNTL	: TANTALUM CAP	R.TW.CEM	: TWIN CEMENT FIXED RESISTOR
C.TNTL.CHP	: CHIP TANTALUM CAP	R.WW	: WIRE WOUND RESISTOR
C.TRIM	: TRIMMER CAP	SCR.BND.HD	: BIND HEAD B-TITE SCREW
CN	: CONNECTOR	SCR.BW.HD	: BW HEAD TAPPING SCREW
CN.BS.PIN	: CONNECTOR, BASE PIN	SCR.CUP	: CUP TITE SCREW
CN.CANNON	: CONNECTOR, CANNON	SCR.TERM	: SCREW TERMINAL
CN.DIN	: CONNECTOR, DIN	SCR.TR	: SCREW, TRANSISTOR
CN.FLAT	: CONNECTOR, FLAT CABLE	SUPRT.PCB	: SUPPORT, P.C.B.
CN.POST	: CONNECTOR, BASE POST	SURG.PRTCT	: SURGE PROTECTOR
COIL.MX.AM	: COIL, AM MIX	SW.TACT	: TACT SWITCH
COIL.AT.FM	: COIL, FM ANTENNA	SW.LEAF	: LEAF SWITCH
COIL.DT.FM	: COIL, FM DETECT	SW.LEVER	: LEVER SWITCH
COIL.MX.FM	: COIL, FM MIX	SW.MICRO	: MICRO SWITCH
COIL.OUTPT	: OUTPUT COIL	SW.PUSH	: PUSH SWITCH
DIOD.ARRAY	: DIODE ARRAY	SW.RT.ENC	: ROTARY ENCODER
DIODE.BRG	: DIODE BRIDGE	SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
DIODE.CHP	: CHIP DIODE	SW.RT	: ROTARY SWITCH
DIODE.VAR	: VARACTOR DIODE	SW.SLIDE	: SLIDE SWITCH
DIOD.Z.CHP	: CHIP ZENER DIODE	TERM.SP	: SPEAKER TERMINAL
DIODE.ZENR	: ZENER DIODE	TERM.WRAP	: WRAPPING TERMINAL
DSCR.CE	: CERAMIC DISCRIMINATOR	THRMST.CHP	: CHIP THERMISTOR
FER.BEAD	: FERRITE BEADS	TR.CHP	: CHIP TRANSISTOR
FER.CORE	: FERRITE CORE	TR.DGT	: DIGITAL TRANSISTOR
FET.CHP	: CHIP FET	TR.DGT.CHP	: CHIP DIGITAL TRANSISTOR
FL.DSPLY	: FLUORESCENT DISPLAY	TRANS	: TRANSFORMER
FLTR.CE	: CERAMIC FILTER	TRANS.PULS	: PULSE TRANSFORMER
FLTR.COMB	: COMB FILTER MODULE	TRANS.PWR	: POWER TRANSFORMER ASS'y
FLTR.LC.RF	: LC FILTER, EMI	TUNER.AM	: TUNER PACK, AM
GND.MTL	: GROUND PLATE	TUNER.FM	: TUNER PACK, FM
GND.TERM	: GROUND TERMINAL	TUNER.PK	: FRONT-END TUNER PACK
HOLDER.FUS	: FUSE HOLDER	VR	: ROTARY POTENTIOMETER
IC.PRTCT	: IC PROTECTOR	VR.MTR	: POTENTIOMETER WITH MOTOR
JUMPER.CN	: JUMPER CONNECTOR	VR.SW	: POTENTIOMETER WITH ROTARY SW
JUMPER.TST	: JUMPER, TEST POINT	VR.SLIDE	: SLIDE POTENTIOMETER
L.DTCT	: LIGHT DETECTING MODULE	VR.TRIM	: TRIMMER POTENTIOMETER

Note) Those parts marked with "#" are not included in the P.C.B. ass'y.

MAIN P.C.B.

Schm Ref.	PART NO.	Description		
*	VR283300	P. C. B.	MAIN	
	CB1	VD004800	CN. BS. PIN	5P
	CB2	VD004500	CN. BS. PIN	2P
	CB3	Vi878100	CN. BS. PIN	3P
	CB4	Vi878100	CN. BS. PIN	3P
	CB5	Vi878000	CN. BS. PIN	2P
	CB6	Vi878000	CN. BS. PIN	2P
*	CB7	VR359800	CN. BS. PIN	27P
*	CB8	VR363400	CN. BS. PIN	27P
*	CB9	Vi878300	CN. BS. PIN	5P
*	CB10	Vi878800	CN. BS. PIN	10P
	C1	UA652560	C. MYLAR	560pF 50V
	C2	UA652560	C. MYLAR	560pF 50V
	C3	VE742700	C. EL	10uF 50V
	C4	VE742700	C. EL	10uF 50V
	C5	UA654130	C. MYLAR	0.013uF 50V
	C6	UA654130	C. MYLAR	0.013uF 50V
	C7	VE016600	C. EL	220uF 6.3V
	C8	VE016600	C. EL	220uF 6.3V
	C9	UM417100	C. EL	10uF 50V
	C10	UM417100	C. EL	10uF 50V
	C11	VE742700	C. EL	10uF 50V
	C12	UM417100	C. EL	10uF 50V
	C13	UA653120	C. MYLAR	1200pF 50V
	C14	UA653120	C. MYLAR	1200pF 50V
	C15	UA653100	C. MYLAR	1000pF 50V
	C16	UA653100	C. MYLAR	1000pF 50V
	C17	UM417100	C. EL	10uF 50V
	C18	UM417100	C. EL	10uF 50V
	C19	UA654150	C. MYLAR	0.015uF 50V
	C20	UA654150	C. MYLAR	0.015uF 50V
	C21	UA652470	C. MYLAR	470pF 50V
	C22	UA652470	C. MYLAR	470pF 50V
	C23	VJ839200	C. EL	2.2uF 50V
	C24	VJ839200	C. EL	2.2uF 50V
	C25	VF467300	C. CE. TUBLR	0.01uF 16V
	C26	VF467000	C. CE. TUBLR	1000pF 50V
	C27	UM215100	C. EL	0.1uF 50V
	C28	UA654390	C. MYLAR	0.039uF 50V
	C29	VJ839100	C. EL	1uF 50V
	C30	VJ839100	C. EL	1uF 50V
	C31	VJ839100	C. EL	1uF 50V
	C32	VJ839100	C. EL	1uF 50V
	C33	VJ839100	C. EL	1uF 50V
	C34	VJ839100	C. EL	1uF 50V
	C35	UA653220	C. MYLAR	2200pF 50V
	C36	UA653220	C. MYLAR	2200pF 50V
	C37	UA653220	C. MYLAR	2200pF 50V
	C38	UA653220	C. MYLAR	2200pF 50V
	C39	UA653220	C. MYLAR	2200pF 50V
	C40	UA653220	C. MYLAR	2200pF 50V
	C41	UM215100	C. EL	0.1uF 50V
	C42	UM215100	C. EL	0.1uF 50V

Schm Ref.	PART NO.	Description		
	C43	UM215100	C. EL	0.1uF 50V
	C44	UM215100	C. EL	0.1uF 50V
	C46	VJ839200	C. EL	2.2uF 50V
	C47	UM417100	C. EL	10uF 50V
	C48	UM417100	C. EL	10uF 50V
	C49	VJ839100	C. EL	1uF 50V
	C50	VJ839100	C. EL	1uF 50V
	C51	VF466800	C. CE. TUBLR	100pF 50V
	C52	VF466800	C. CE. TUBLR	100pF 50V
	C53	UJ167330	C. EL	33uF 50V
	C54	UJ167330	C. EL	33uF 50V
	C55	VF467300	C. CE. TUBLR	0.01uF 16V
	C56	VF467300	C. CE. TUBLR	0.01uF 16V
	C57	VF467300	C. CE. TUBLR	0.01uF 16V
	C58	UM417100	C. EL	10uF 50V
	C59	UM417100	C. EL	10uF 50V
	C60	UM417100	C. EL	10uF 50V
	C61	UM417100	C. EL	10uF 50V
	C62	UM417100	C. EL	10uF 50V
	C63	UJ167330	C. EL	33uF 50V
	C64	UJ167330	C. EL	33uF 50V
	C65	UJ865680	C. EL	0.68uF 50V
	C66	UJ865680	C. EL	0.68uF 50V
	C67	UA654110	C. MYLAR	0.011uF 50V
	C68	UA654110	C. MYLAR	0.011uF 50V
	C69	UA653390	C. MYLAR	3900pF 50V
	C70	UA653390	C. MYLAR	3900pF 50V
	C71	UA653390	C. MYLAR	3900pF 50V
	C72	UA653390	C. MYLAR	3900pF 50V
	C73	UA653330	C. MYLAR	3300pF 50V
	C74	UA653330	C. MYLAR	3300pF 50V
	C75	VE021900	C. EL	4.7uF 100V
	C76	VE021900	C. EL	4.7uF 100V
	C77	UA652820	C. MYLAR	820pF 50V
	C78	UA652820	C. MYLAR	820pF 50V
	C79	UT452100	C. PP	100pF 100V
	C80	UT452100	C. PP	100pF 100V
	C81	UT452470	C. PP	470pF 100V
	C82	UT452470	C. PP	470pF 100V
	C83	VJ599000	C. CE. TUBLR	0.047uF 16V
	C84	VF466800	C. CE. TUBLR	100pF 50V
	C85	VG280100	C. CE. TUBLR	0.022uF 25V
	C86	VG280100	C. CE. TUBLR	0.022uF 25V
	C87	VG280100	C. CE. TUBLR	0.022uF 25V
	C88	VG280100	C. CE. TUBLR	0.022uF 25V
	C89	VG278800	C. CE. TUBLR	560pF 50V
	C90	VG278800	C. CE. TUBLR	560pF 50V
	C91	VF467300	C. CE. TUBLR	0.01uF 16V
	C92	VF467300	C. CE. TUBLR	0.01uF 16V
	C93	UM417100	C. EL	10uF 50V
	C94	UJ667470	C. EL	47uF 50V
	C95	UT653560	C. PP	5600pF 100V
	C96	UA654100	C. MYLAR	0.01uF 50V

* New Parts

MAIN P.C.B.

Schm Ref.	PART NO.	Description
C97	UA653270	C. MYLAR 2700pF 50V
C98	UA653270	C. MYLAR 2700pF 50V
C99	UJ667470	C. EL 47uF 50V
C100	UM417100	C. EL 10uF 50V
C101	UM416470	C. EL 4.7uF 50V
C102	UM416470	C. EL 4.7uF 50V
C103	VJ839200	C. EL 2.2uF 50V
C104	VJ839200	C. EL 2.2uF 50V
C105	UM417100	C. EL 10uF 50V
C106	VF467300	C. CE. TUBLR 0.01uF 16V
C107	VF992600	C. EL 4700uF 5.5V
C108	VJ838800	C. EL 0.22uF 50V
C109	UM417100	C. EL 10uF 50V
C110	UM417100	C. EL 10uF 50V
C111	UM417100	C. EL 10uF 50V
C112	VH520900	C. EL 4700uF 16V
C113	UG444100	C. CE 0.01uF 50V
C114	UG444100	C. CE 0.01uF 50V
C115	VE801600	C. EL 470uF 35V
C116	UJ667470	C. EL 47uF 50V
C117	VE742700	C. EL 10uF 50V
C118	UJ658220	C. EL 220uF 35V
C119	UJ658470	C. EL 470uF 35V
C120	UM417100	C. EL 10uF 50V
C121	VJ839100	C. EL 1uF 50V
C122	UM417100	C. EL 10uF 50V
C123	UM417100	C. EL 10uF 50V
C124	UJ668100	C. EL 100uF 50V
C125	UA653820	C. MYLAR 8200pF 50V
C126	VJ839200	C. EL 2.2uF 50V
C127	UM215100	C. EL 0.1uF 50V
D1	VM975900	DIODE, ZENR HZS162TD 16V
D2	VD631600	DIODE 1SS133,176,HSS104
D3	VD631600	DIODE 1SS133,176,HSS104
D4	VD631600	DIODE 1SS133,176,HSS104
D5	VD631600	DIODE 1SS133,176,HSS104
D6	VD631600	DIODE 1SS133,176,HSS104
D7	VD631600	DIODE 1SS133,176,HSS104
D8	VQ379300	DIODE, BRG S1VB20 1.0A 200V
D9	VM975900	DIODE, ZENR HZS162TD 16V
D10	VH801600	DIODE 1SR139-100
D11	VH801600	DIODE 1SR139-100
D12	VR262700	DIODE, ZENR HZS221TD 21V
D13	VM973700	DIODE, ZENR HZS4A2TD 4.0V
D14	VD631600	DIODE 1SS133,176,HSS104
D15	VD631600	DIODE 1SS133,176,HSS104
D16	VD631600	DIODE 1SS133,176,HSS104
D17	VD631600	DIODE 1SS133,176,HSS104
D18	VM973700	DIODE, ZENR HZS4A2TD 4.0V
F11	GE200510	COIL, MPX
F12	GE200510	COIL, MPX
F13	GE900780	COIL, BIAS 105KHz
F14	GE900780	COIL, BIAS 105KHz

* New Parts

Schm Ref.	PART NO.	Description
IC1	XD864A00	IC uPC1330HA
IC2	iG145500	IC LA3161
IC3	iG076800	IC NJM4558S
IC4	iG001720	IC TC4069UBP
IC5	iG037400	IC uPD4066BC
IC6	XH741A00	IC HA12142NT
IC7	iG077410	IC NJM4556S-A
IC8	iG089900	IC AN90B20
IC9	iG076800	IC NJM4558S
IC10	XA300A00	IC uPC1297CA
IC11	iG074900	IC BA6138
* IC12	XN482B00	IC LC65204A-4C93
* IC13	XM974A00	IC BU2040
△ IC14	XA506001	IC L78N05
JK1	LB301720	JACK, PHONE
L1	GE901660	COIL 18mH
L2	GE901660	COIL 18mH
L3	VA709900	COIL 105KHz
L4	VA709900	COIL 105KHz
L5	VN136200	COIL 105KHz
PJ1	LB401040	JACK, PIN 4P
Q1	VG722000	TR, DGT DTC144ES
Q2	VG722000	TR, DGT DTC144ES
Q3	VD678500	TR, DGT DTA114ES
Q4	VG722000	TR, DGT DTC144ES
Q5	VG722000	TR, DGT DTC144ES
Q6	VG722000	TR, DGT DTC144ES
Q7	VG722000	TR, DGT DTC144ES
Q8	VG722000	TR, DGT DTC144ES
Q9	VK432900	TR 2SD1915F S,T
Q10	VK432900	TR 2SD1915F S,T
Q11	VG722000	TR, DGT DTC144ES
Q12	VG722000	TR, DGT DTC144ES
Q13	VG722000	TR, DGT DTC144ES
Q14	VG722000	TR, DGT DTC144ES
Q15	VG722000	TR, DGT DTC144ES
Q16	VG722000	TR, DGT DTC144ES
Q17	VK432900	TR 2SD1915F S,T
Q18	VK432900	TR 2SD1915F S,T
Q19	VG722000	TR, DGT DTC144ES
Q20	VG722000	TR, DGT DTC144ES
Q21	VG722000	TR, DGT DTC144ES
Q22	iC174020	TR 2SC1740S R,S
Q23	iC174020	TR 2SC1740S R,S
Q24	iC174020	TR 2SC1740S R,S
△ Q25	VE613400	TR 2SD1858 Q,R
Q26	VG722000	TR, DGT DTC144ES
Q27	VE613300	TR 2SB1237 Q,R
Q28	VE613300	TR 2SB1237 Q,R
Q29	VD678700	TR, DGT DTC114ES
Q30	VD678700	TR, DGT DTC114ES
Q31	VG722000	TR, DGT DTC144ES
Q32	VD488500	TR, DGT DTC143XS

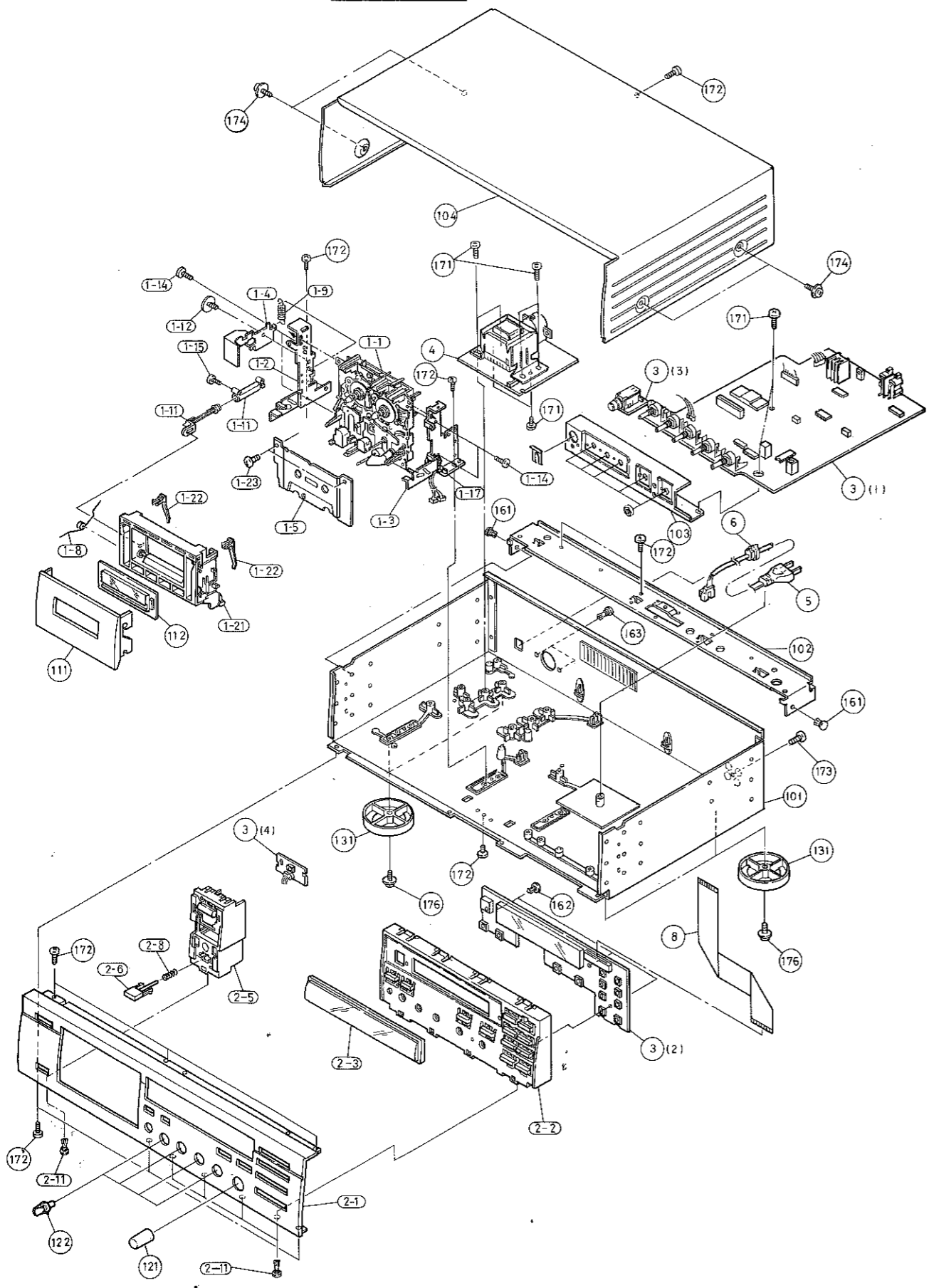
MAIN & TRANS P.C.B.

Schm Ref.	PART NO.	Description
Q34	VD678500	TR, DGT DTA114ES
△ Q35	VC407900	TR 2SD1913 R,S
△ Q36	VE613300	TR 2SB1237 Q,R
Q37	VE613400	TR 2SD1858 Q,R
Q38	iA093320	TR 2SA933S Q,R
Q39	VE613400	TR 2SD1858 Q,R
△ R122	HV454220	R, CAR, FP 22Ω 1/4W
△ R123	VK187000	R, FUS 22Ω 1/4W
△ R128	HV454220	R, CAR, FP 22Ω 1/4W
△ R158	VE009700	R, FUS 4.7Ω 1/4W
△ R162	HV455100	R, CAR, FP 100Ω 1/4W
△ R163	HV455100	R, CAR, FP 100Ω 1/4W
SW1	VG392900	SW, TACT SKHVAA
SW2	VG392900	SW, TACT SKHVAA
SW3	VG392900	SW, TACT SKHVAA
SW4	VG392900	SW, TACT SKHVAA
SW5	VG392900	SW, TACT SKHVAA
SW6	VG392900	SW, TACT SKHVAA
SW7	VG392900	SW, TACT SKHVAA
SW8	VG392900	SW, TACT SKHVAA
SW9	VG392900	SW, TACT SKHVAA
SW10	VG392900	SW, TACT SKHVAA
SW11	VG392900	SW, TACT SKHVAA
SW12	VG392900	SW, TACT SKHVAA
SW13	VG392900	SW, TACT SKHVAA
TP1	VL448600	JUMPER, TST
TP2	VL448600	JUMPER, TST
U1	VK498900	L, DTCT S-100
* V1	VQ667400	FL, DSPLY BJ214GK
VR1	VJ694200	VR, TRIM B100KΩ
VR2	VJ694200	VR, TRIM B100KΩ
VR3	VJ693800	VR, TRIM B22KΩ
VR4	VJ693800	VR, TRIM B22KΩ
VR5	VJ693500	VR, TRIM B6.8KΩ
VR6	VJ693500	VR, TRIM B6.8KΩ
VR7	VJ693600	VR, TRIM B10KΩ
VR8	VJ693600	VR, TRIM B10KΩ
VR9	VJ693800	VR, TRIM B22KΩ
VR10	VJ693800	VR, TRIM B22KΩ
* VR11	VR090600	VR A50KΩ
* VR12	VR090700	VR A50KΩ
* VR13	VR090800	VR B100KΩ
* VR14	VR313800	VR D5KΩ
* VR15	VR090500	VR A5KΩ
XL1	VB759100	RSNR, CE 4MHz
	VN126800	HEAT, SINK UOT-16C25-MP
* VR435100	PLATE W16	
* VQ948200	SPACER FL	
* VQ859800	SHEET, FL	

* New Parts

Schm Ref.	PART NO.	Description
* VR285000	P. C. B.	TRANS(UC)
* VR285100	P. C. B.	TRANS(AB)
* VR285200	P. C. B.	TRANS(G)
* VR286200	P. C. B.	TRANS(R)
CB501	VG879900	CN, BS, PIN 2P
* CB502	VK024900	CN, BS, PIN 5P
SW501	VG388100	VOLT, SELCT HXW0244-01-080(R)
△ * T501	XN501A00	TRANS, PWR (UC)
△ * T501	XN502A00	TRANS, PWR (R)
△ * T501	XN503A00	TRANS, PWR (AB)
△ * T501	XN504A00	TRANS, PWR (G)
	Ei030086	SCR, BND, HD 3x8 ZMC2-Y

EXPLODED VIEW KX-380



MECHANICAL PARTS Note) Ø : Diameter

Ref. No.	PART NO.	Description	Remarks	Markets
*	1- 1	VR029600 CASSETTE DECK MECHANISM		
*	1- 2	VQ860200 HOLDER L, MECH		
*	1- 3	VQ860300 HOLDER R, MECH		
*	1- 4	VQ860500 EJECT LEVER		
*	1- 5	VQ860000 BACK PLATE		
*	1- 6	VQ146900 LABEL B.P		
*	1- 8	VM873800 SPRING	EJ	
*	1- 9	VQ938200 SPRING	LEVER	
*	1-11	VR020600 DAMPER, AIR	FP472-11	
*	1-12	VR020500 SHOULDER SCREW	ST3 φ6x4	
*	1-14	VR278600 BIND HEAD S-TITE SCREW	2.6x6	FCRM3-BL
*	1-15	EK096060 BW HEAD S-TITE SCREW	2.5x12	FCRM3-BL
*	1-17	VR316500 BINDING TIE	CV-70	
*	1-21	VQ860400 CASSETTE HOUSING		
*	1-22	VM868200 GUIDE, CASSETTE		
*	1-23	EK396010 BIND HEAD S-TITE SCREW	4x8	FCRM3-BL
*	2- 1	VQ857600 FRONT PANEL		BL
*	2- 1	VQ857700 FRONT PANEL		TI
*	2- 2	VQ858200 SUB PANEL		BL
*	2- 2	VQ858300 SUB PANEL		TI
*	2- 3	VQ793300 WINDOW PANEL		
*	2- 5	VQ853000 BUTTON GUIDE		BL
*	2- 5	VQ853100 BUTTON GUIDE		TI
*	2- 6	VQ852700 BUTTON EJ		BL
*	2- 6	VQ852800 BUTTON EJ		TI
*	2- 8	VQ852900 SPRING	D6.4C	
*	2-11	VQ368600 PUSH RIVET	P3555-B	
*	3	VR283300 P.C.B. ASS'Y	MAIN	(UC)
*	4	VR285000 P.C.B. ASS'Y	TRANS	(AB)
*	4	VR285100 P.C.B. ASS'Y	TRANS	(G)
*	4	VR285200 P.C.B. ASS'Y	TRANS	(R)
*	4	VR286200 P.C.B. ASS'Y	TRANS	(R)
△	5	VL012900 POWER CORD ASS'Y		(UC)
△	5	VL238100 POWER CORD ASS'Y		(R)
△	5	VL238400 POWER CORD ASS'Y		(A)
△	5	VL238900 POWER CORD ASS'Y		(G)
△	5	VN804500 POWER CORD ASS'Y		(B)
*	6	VN158600 CORD STOPPER	No. 2104	
*	8	VR262200 CONNECTOR, FLAT CABLE	27P 240mm	
	101	VM871200 CHASSIS		(UCABG)
	101	VM871400 CHASSIS		(R)
	102	VM634400 TOP FRAME		
*	103	VQ859100 BRACKET, VR		
*	104	VQ854400 TOP COVER		BL
*	104	VQ854500 TOP COVER		TI
*	111	VQ853700 SUB PANEL, LID		BL
*	111	VQ853800 SUB PANEL, LID		TI
*	112	VQ999400 WINDOW, PANEL	LID	
*	121	VQ779200 KNOB	φ 16	BL
*	121	VQ779300 KNOB	φ 16	TI
*	122	VQ859600 KNOB, VR	φ 14	BL
*	122	VQ859700 KNOB, VR	φ 14	TI
*	131	VQ780300 LEG	D60xH16	

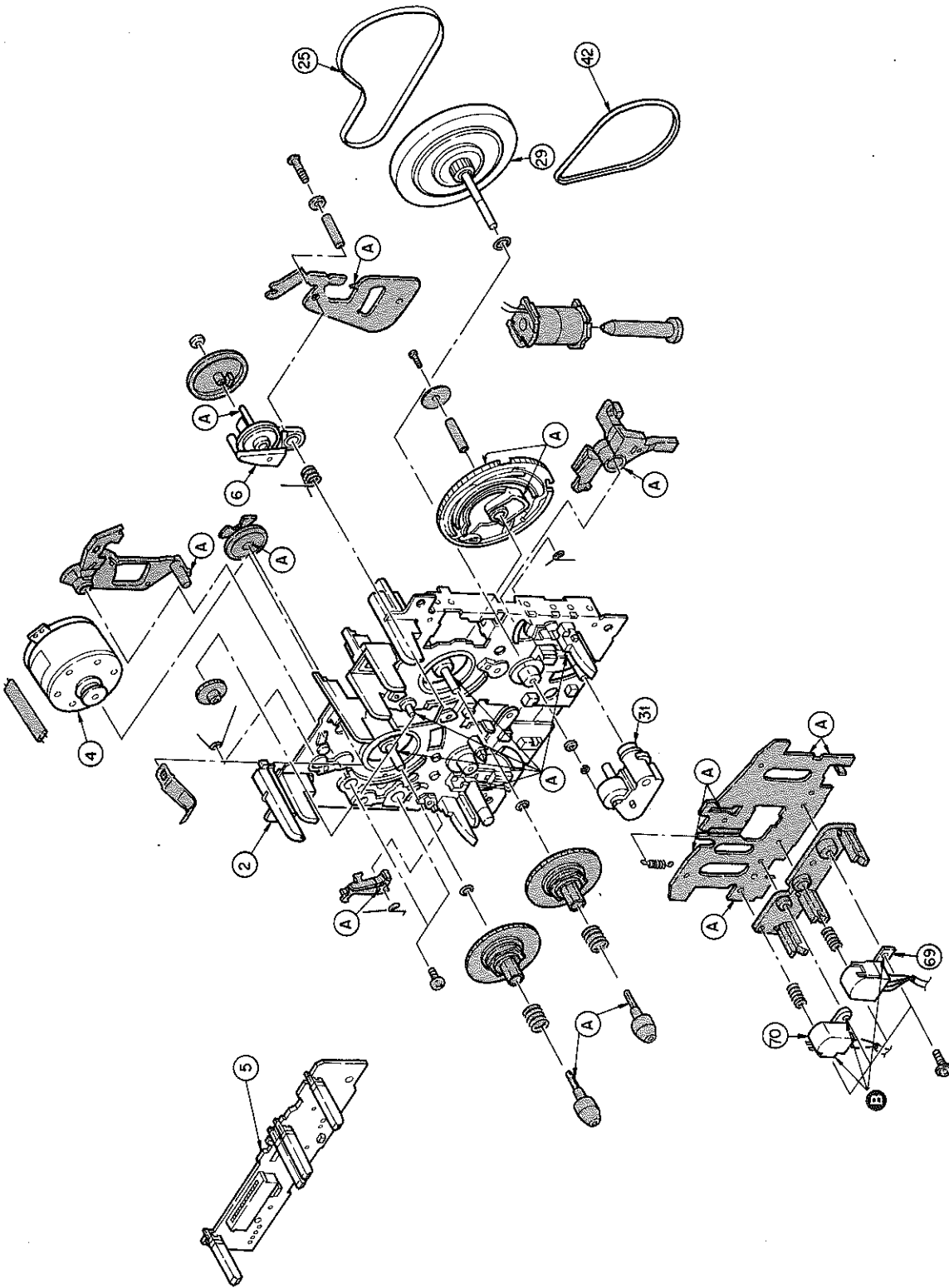
*New Parts


Ref. No.	PART NO.	Description	Remarks	Markets
* 161	VQ368500	PUSH RIVET	P3545-B	
* 162	VQ368600	PUSH RIVET	P3555-B	
* 163	VR101100	PUSH RIVET	P3065-B	
171	EK093040	BIND HEAD P-TITE SCREW	3x12	ZMC2-Y
172	Ei330086	BIND HEAD B-TITE SCREW	3x8	FCRM3-BL
173	EN335030	BIND HEAD BONDING TAP. SCREW	3x10	FCRM3-BL
174	EL300470	BW HEAD S-TITE SCREW	4x8-10	FCRM3-BL BL
174	EX601150	BW HEAD S-TITE SCREW	4x8-10	FNM3-BL TI
176	EK930010	BW HEAD TAPPING SCREW	3x8-8	FCRM3-BL
		ACCESSORIES		
	VN159900	PIN-PLUG CORD	2P 1.0m	

* New Parts

EXPLODED VIEW (Cassette Mechanism)

KX-380



Note:  marked parts are not available.

Ⓐ : MOLYKOTE X5 ... DAW CORNING CO., LTD. (LUBRICATION POINT)

Ⓑ : SCREW LOCK ... THREE BOND CO., LTD. (APPLICATION POINT)

MECHANICAL PARTS (Cassette Mechanism) Note) Ø : Diameter

Ref. NO.	PART NO.	Description	Remarks	Markets
*	VR029600	CASSETTE DECK MECHANISM		
* 2	NX613020	CHASSIS BASE ASS'Y	F612202	
* 4	JX601460	MOTOR ASS'Y, MAIN	F525305	
* 5	NX613000	CONTROL P.C.B. ASS'Y	F567523	
* 6	NX612970	CLUTCH ASS'Y	F522030	
* 25	CX673050	MAIN BELT	FF17W31	
* 29	NX612960	CLUTCH ASS'Y	F522029	
* 31	NX612950	PINCH ROLLER ASS'Y, R	F514120	
* 42	CX675180	BELT, F/R	FF18W11	
* 69	GX608580	HEAD	REC/PB HAJCH4557B	FU15R12
* 70	GX606840	ERASE HEAD		FU19211

*New Parts

Parts List for Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF85 3100	10 kΩ	HF45 7100	HF45 7100
1.8 Ω	HJ35 3180	*	11 kΩ	HF45 7110	HF45 7110
2.2 Ω	HJ35 3220	HF85 3220	12 kΩ	HJ35 7120	HF85 7120
3.3 Ω	HJ35 3330	HF85 3330	13 kΩ	HF45 7130	HF45 7130
4.7 Ω	HJ35 3470	HF85 3470	15 kΩ	HF45 7150	HF45 7150
5.6 Ω	HJ35 3560	HF85 3560	18 kΩ	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 kΩ	HF45 7220	HF45 7220
15 Ω	HJ35 4150	HF85 4150	24 kΩ	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 kΩ	HJ35 7270	HF85 7270
27 Ω	HJ35 4270	HF85 4270	30 kΩ	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 kΩ	HF45 7330	HF45 7330
39 Ω	HJ35 4470	HF85 4390	36 kΩ	HF45 7360	HF45 7360
47 Ω	HF45 4470	HF45 4470	39 kΩ	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 kΩ	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 kΩ	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 kΩ	HF45 7560	HF45 7560
82 Ω	HF45 4820	HF45 4820	62 kΩ	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 kΩ	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 kΩ	HF45 7820	HF45 7820
110 Ω	HJ35 5110	HF85 5110	91 kΩ	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 kΩ	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 kΩ	HF45 8110	HF45 8110
160 Ω	HJ35 5160	*	120 kΩ	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 kΩ	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 kΩ	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 kΩ	HJ35 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 kΩ	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 kΩ	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 kΩ	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 kΩ	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 kΩ	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 kΩ	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 kΩ	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 kΩ	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 MΩ	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 MΩ	HJ35 9120	*
1.0 kΩ	HF45 6100	HF45 6100	1.5 MΩ	HJ35 9150	HF85 9150
1.2 kΩ	HF45 6120	HF45 6120	1.8 MΩ	HJ35 9180	HF85 9180
1.5 kΩ	HF45 6150	HF45 6150	2.2 MΩ	HJ35 9220	HF85 9220
1.8 kΩ	HF45 6180	HF45 6180	3.3 MΩ	HJ35 9330	HF85 9330
2.0 kΩ	HJ35 6200	HF85 6200	3.9 MΩ	HJ35 9390	*
2.2 kΩ	HF45 6220	HF45 6220	4.7 MΩ	HJ35 9470	HF85 9470
2.4 kΩ	HJ35 6240	HF85 6240			
2.7 kΩ	HF45 6270	HF45 6270			
3.0 kΩ	HF45 6300	HF45 6300			
3.3 kΩ	HF45 6330	HF45 6330			
3.6 kΩ	HJ35 6360	HF85 6360			
3.9 kΩ	HF45 6390	HF45 6390			
4.7 kΩ	HF45 6470	HF45 6470			
5.1 kΩ	HF45 6510	HF45 6510			
5.6 kΩ	HF45 6560	HF45 6560			
6.8 kΩ	HF45 6680	HF45 6680			
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			

