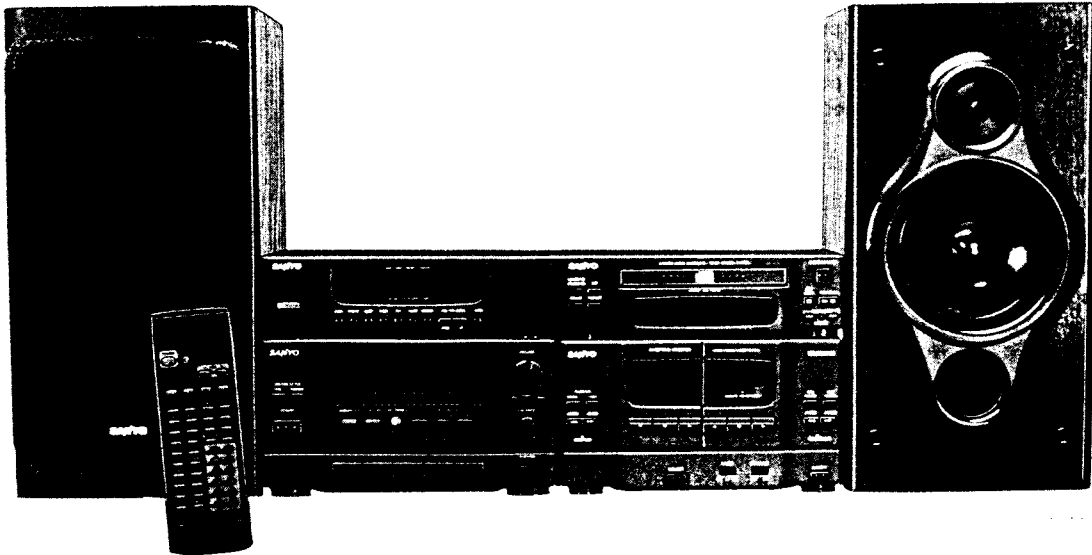




Service Manual

New Interior Component System

DC-T44 (NZ)



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PRODUCT CODE No.
129 364 09

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This Service manual is consist of "RB-T44", "DC-T44TU", "DC-T44CD", "DC-T44DK", "DC-T44AMP", "SX-T55".

REFERENCE No. WM-580735

SPECIFICATION

Tuner (DC-T44TU)

Frequency range	FM : 87.5 - 108 MHz
	MM : 522 - 1,611 kHz
	LW : 144 - 290 kHz
Sensitivity	FM : 1.8 μ V (mono)
Dimensions(approx.)	220 (W) x 65 (H) x 250 (D) mm
Weight(approx.)	1.4 kg

Amplifier (DC-T44AMP)

Output power	25W x 2 (0.9% THD)
Inputs/outputs	Audio input x 2
	Audio output x 1
	Video input x 1
	Video output x 1
Graphic equalizer	7 band electronic
Spectrum analyzer	7 band
Dimensions(approx.)	220 (W) x 120 (H) x 250 (D) mm
Weight(approx.)	4.65 kg

Cassette decks (DC-T44DK)

Track system	4-track, 2-channel stereo
Frequency response	Metal tapes : 40 - 15,000 Hz
	Chrome tapes : 40 - 14,000 Hz
	Normal tapes : 40 - 13,000 Hz
	60 dB(with DOLBY NR : ON)
Signal to noise ratio	0.12% (WRMS)
Wow and flutter	
Fast forward /	
rewind time	Approx. 110 sec. (C-60)
Dimensions(approx.)	220 (W) x 120 (H) x 250 (D) mm
Weight(approx.)	2.5 kg

CD player (DC-T44CD)

Channels	2-channel stereo
Sampling frequency	44.1 kHz
Pick-up	Optical 3-beam semiconductor laser
Frequency response	5 - 20,000 Hz
Wow and flutter	Below measurable limits
Dimensions(approx.)	220 (W) x 65 (H) x 250 (D) mm
Weight(approx.)	1.75 kg

General

Power requirements	AC : 230 V (115 V), 50 Hz
Power consumption	115 W

Speaker systems (SX-T55)

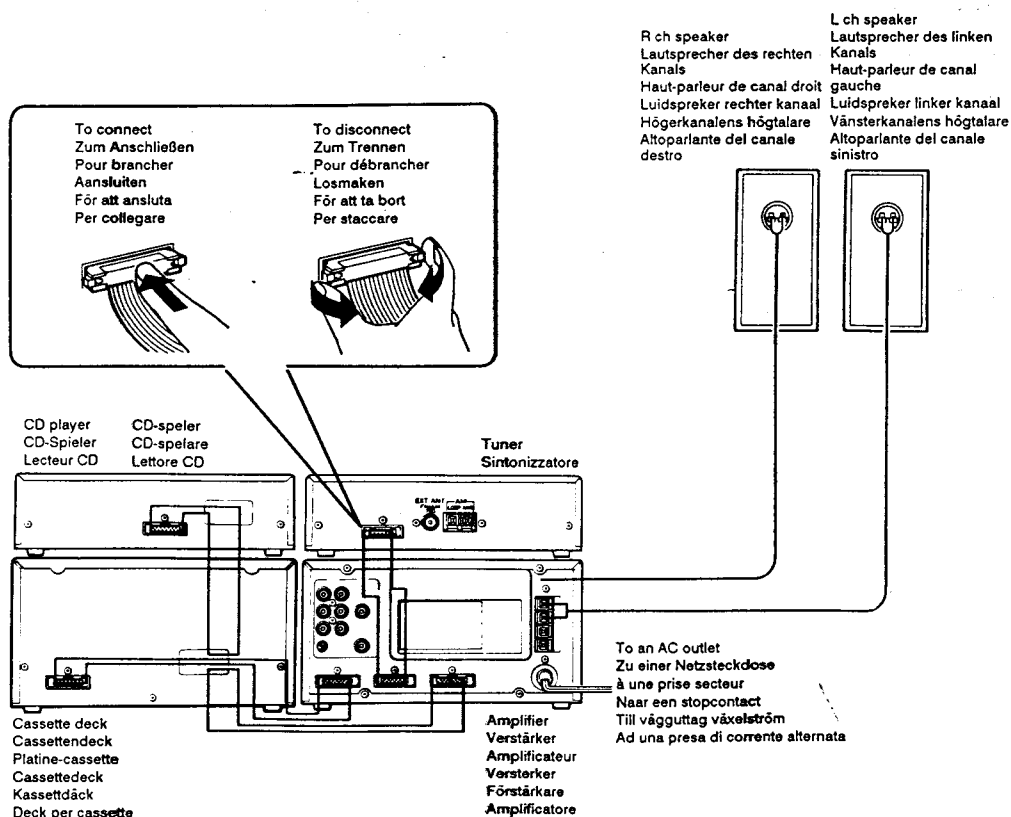
Overall	
frequency response	40 - 20,000Hz
Type	2 Way bass reflex
Unit used	Woofer : 13 cm cone type
	Tweeter : 5cm cone type
Power handling capacity	Max. 70W (peak)
Nominal impedance	6 ohms
Dimensions(approx.)	185 (W) x 370 (H) x 260 (D) mm
Weight(approx.)	4.9 kg (Per speaker)

Remote Controller (RB-T44)

Power requirements	DC : 3V
	"R6 / AA / SUM-3" Battery x 2
Dimensions(approx.)	58 (W) x 18 (D) x 186 (H) mm

Specification subject to change without notice.

SYSTEM CONNECTION



PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol $\triangle$ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with $\triangle$, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CAUTION : Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.

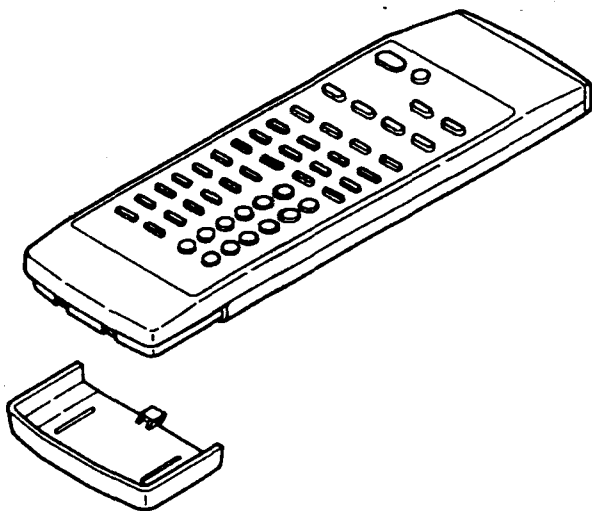
PACKING & ACCESSORIES

REF.NO.	PART NO.	DESCRIPTION
	614 240 9343	INNER CARTON
	614 228 8825	PAD, TOP
	614 228 8832	PAD, BOTTOM
	614 223 3917	POLY COVER, REMOCON
	614 230 1135	POLY COVER, TUNER
	614 229 4000	INNER POLYE LAMINA COVER, CD
	614 176 8793	INNER POLYE LAMINA COVER, DECK
	614 176 8793	INNER POLYE LAMINA COVER, AMP
	614 176 3231	INNER POLYE COVER, INST-ACCESSORY
	614 176 1039	INNER POLYE COVER, SCREW
	614 241 4866	INSTRUCTION MANUAL
	614 231 6832	LABEL, SAFETY, LASER, CD

REF.NO.	PART NO.	DESCRIPTION
	614 229 6929	SHEET, CD TRAY
	614 226 7387	ASSY, CONNECTOR-P, 15P BLACK, AMP.-DECK
	614 227 2640	ASSY, CONNECTOR-P, 13P BLACK, AMP.-TUNER
	614 227 2633	ASSY, CONNECTOR-P, 15P BLUE, AMP.-CD
	614 208 7565	LOOP ANT, AM
	614 212 2341	MOUNT-E, AM ANT
	614 023 7344	ANT, FM
	411 083 9307	SCR WOOD RND 3.1X13, AM ANT

REMOTE CONTROLLER UNIT (RB-T44)

EXPLODED VIEW & PARTS LIST



REMOCON (RB-T44)

REF.NO.	PART NO.	DESCRIPTION
	614 235 8450	ASSY, REMOTE CONTROLLER
	614 223 3764	LID, BATTERY

TUNER UNIT (DC-T44TU)

TUNER ADJUSTMENT

Use a plastic screwdriver for adjustment.

Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

CLOCK

STEP	ITEMS	OUTPUT CONDITION		PARTS	STANDARDS
		MEASURE	OUTPUT		
	CLOCK	Frequency Counter	IC242 Pin 33(H) Earth(E)	CT241	1.048576MHz (20°C)

Short the IC242 pin 40 and D2048 anode at power off.

Temperature drift

Output the clock signal for adjustment.

10°C : about +1.5Hz, 30°C : about -2.5Hz, 40°C : about -5Hz,

Clock signal for adjustment delete at power on.

SG RF Level : 75 ohm Open voltage

FM BAND

Antenna : 75 ohm Direct, Modulation : 1kHz, Dev. : $\pm 75\text{kHz}$ (mono/stereo) $\cdot \pm 67.5\text{kHz}$ (main) $\cdot \pm 6.75\text{kHz}$ (pilot)

STEP	ITEMS	TUNING FREQUENCY	INPUT CONDITION		OUTPUT CONDITION		PARTS	STANDARDS
			MEASURE	INPUT	MEASURE	OUTPUT		
	COVER	108.0MHz	-----	-----	Digital Voltmeter	TP241(H) TP232(E)	-----	Confirm $\leq 8.0\text{V}$
2	IF(0V)	98.0MHz (66dB)	FM SG	ANT TERMINAL	Digital Voltmeter	TP221(H) *TP222(E)	T2202	$0 \pm 0.05\text{V}$
3	VCO	98.0MHz (66dB)	FM SG	ANT TERMINAL	Frequency Counter	TP231(H) TP232(E)	SVR23	**19KHz $\pm 50\text{Hz}$
4	SEPARATION	98.0MHz (66dB)	FM SG	ANT TERMINAL	VTVM Oscilloscope	TP233(L) TP234(R) TP235(E)	SVR24	L-R · R-L : Minimum DEV(MAIN) = $\pm 40\text{kHz}$
5	SD (Auto Stop)	98.0MHz (26dB)	FM SG	ANT TERMINAL	Digital Voltmeter	TP223(H) TP232(E)	SVR21	1~3V

* : TP222 is no earth point. ** : Adjust in the modulation off after the stereo indicator light on.

MW BAND

Antenna : IRE Loop, Modulation : 400Hz 30%

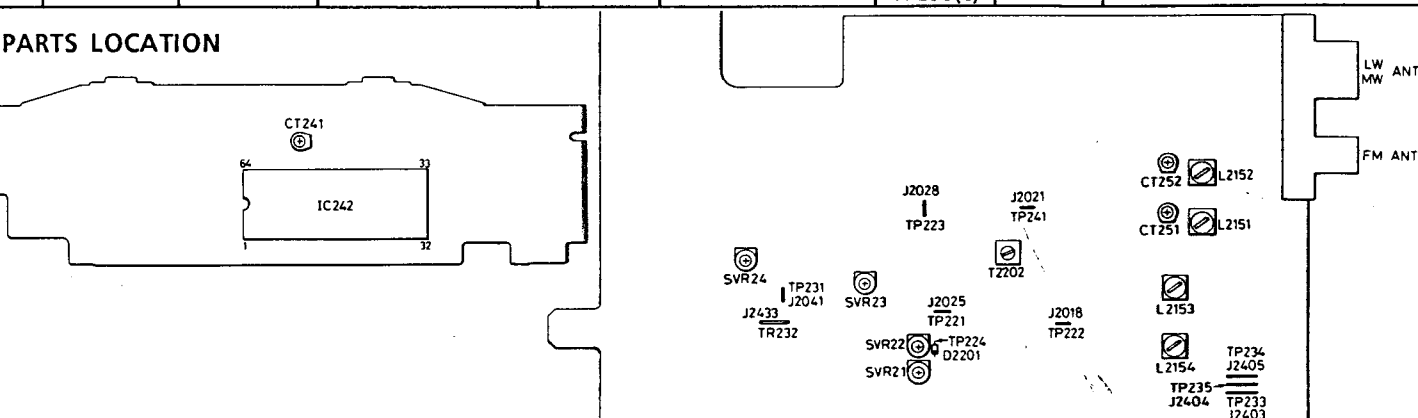
STEP	ITEMS	TUNING FREQUENCY	INPUT CONDITION		OUTPUT CONDITION		PARTS	STANDARDS
			MEASURE	INPUT	MEASURE	OUTPUT		
1	COVER	522kHz 1611kHz	-----	-----	Digital Voltmeter	TP241(H) TP232(E)	L2153 -----	$1.2 \pm 0.05\text{V}$ Confirm $\leq 8.0\text{V}$ (about 7.6V)
2	TRACKING	603kHz 1404kHz	AM SG	LOOP ANT	VTVM Oscilloscope	TP233(L) TP234(R) TP235(E)	L2151 CT251	Output : Maximum Adjust to near the effective sensitivity.
3	SD (Auto Stop)	999kHz (85dB)	AM SG	LOOP ANT	Digital Voltmeter	TP223(H) TP232(E)	SVR22	1~3V

LW BAND

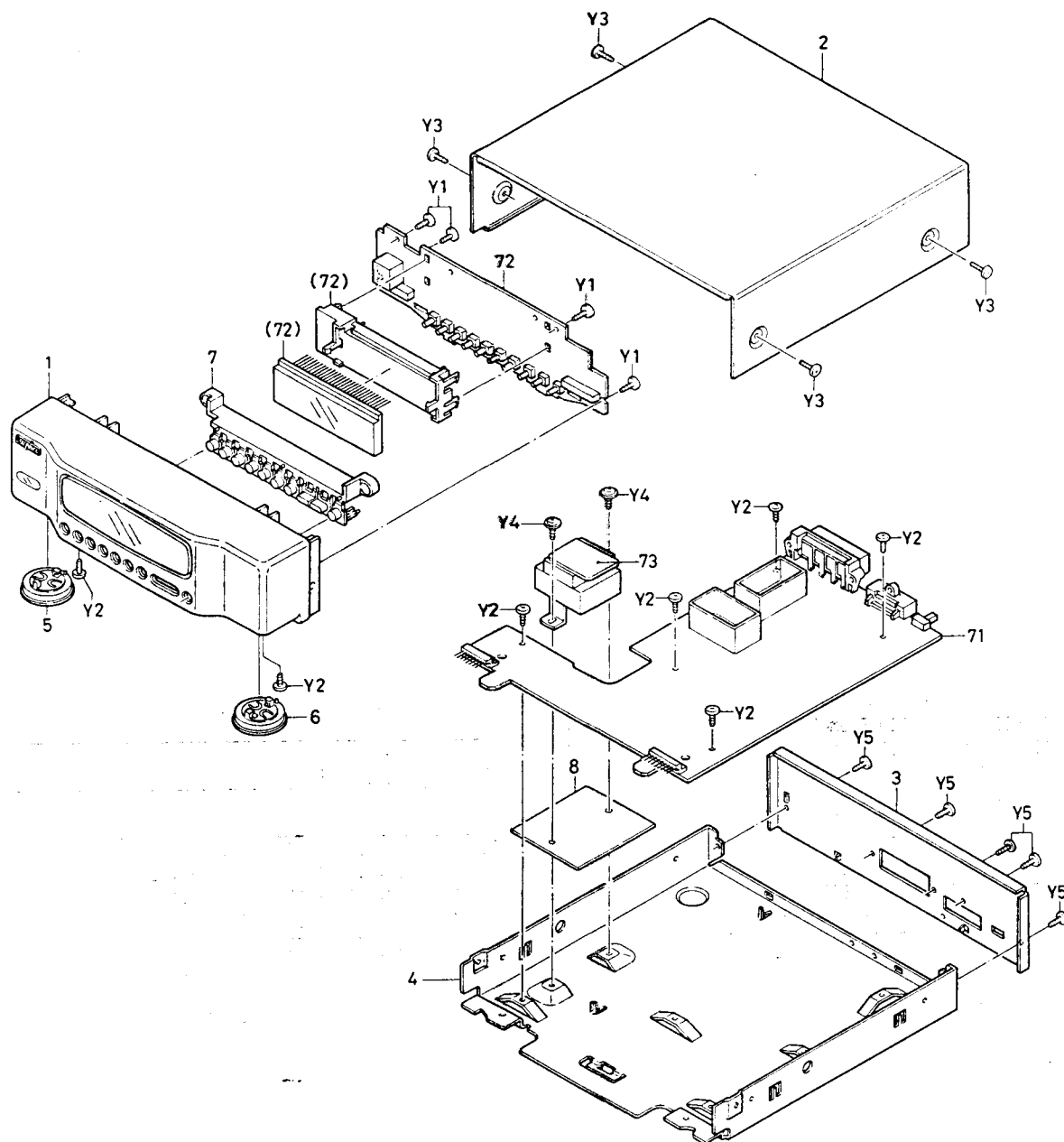
Antenna : IRE Loop, Modulation : 400Hz 30%

STEP	ITEMS	TUNING FREQUENCY	INPUT CONDITION		OUTPUT CONDITION		PARTS	STANDARDS
			MEASURE	INPUT	MEASURE	OUTPUT		
1	COVER	144kHz 290kHz	-----	-----	Digital Voltmeter	TP241(H) TP232(E)	L2154 -----	$1.6 \pm 0.05\text{V}$ Confirm $\leq 8.0\text{V}$ (about 7.2V)
2	TRACKING	162kHz 279kHz	AM SG	LOOP ANT	VTVM Oscilloscope	TP233(L) TP234(R) TP235(E)	L2152 CT252	Output : Maximum Adjust to near the effective sensitivity.

PARTS LOCATION



EXPLODED VIEW (TUNER)



PARTS LIST (TUNER)

CABINET & CHASSIS (DC-T44TU)

REF.NO.	PART NO.	DESCRIPTION
1	614 227 1070	ASSY.PANEL.FRONT
2	614 227 0967	ASSY.CABINET
3	614 240 9114	PANEL,REAR
4	614 227 5658	ASSY.CABINET.BOTTOM
5	614 227 1131	ASSY.FOOT.FRONT-L
6	614 227 1148	ASSY.FOOT.FRONT-R
7	614 227 1650	BUTTON.OPERATION
8	614 229 0859	SHIELD.TRANS

FIXING PARTS (DC-T44TU)

REF.NO.	PART NO.	DESCRIPTION
Y1	411 021 3107	SCR S-TPG BIN 2.6X8
Y2	411 021 6405	SCR S-TPG BIN 3X8
Y3	411 021 6603	SCR S-TPG BIN 3X8
Y4	411 020 9902	SCR S-TPG BRZ+FLG 3X8
Y5	411 021 3503	SCR S-TPG BIN 3X10

PARTS LIST (TUNER)

TUNER MAIN P.C. BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
71	614 229 9500	ASSY.PCB.MAIN
	620 208 3087	TUNER PACK.FM
C2151	403 082 2001	POLYPRO 470P J 100V
C2154	403 082 2205	POLYPRO 560P J 100V
C2314	403 080 5000	POLYPRO 1000P J 100V
C2401	403 196 9602	DL-ELECT 0.047F Z 5.5V
C2402	403 019 0403	CERAMIC 24P J 50V NPO
C2403	403 019 0403	CERAMIC 24P J 50V NPO
C2433	403 106 1603	NP-ELECT 1U Q 50V
C2904	403 197 7300	ELECT 1000U M 25V
CF221	614 030 5128	I.F FILTER.FM
CF222	614 030 5128	I.F FILTER.FM
CF223	614 030 5128	I.F FILTER.FM
CF224	614 210 4675	FILTER.AM(CF224+CF225)
OR	614 211 2939	FILTER.AM
CF225	614 030 7443	I.F FILTER.AM
CN101	614 210 2688	TERMINAL.FM(DIM)+PUSH 2P, EXT-ANT
CN290	614 227 2961	SOCKET.13P.TO AMP UNIT
CN291	614 035 4980	SOCKET.9P.TO POWER TRANS PCB
CN292	614 225 6428	PLUG.10P.TO FRONT PCB
CN293	614 225 6442	PLUG.12P.TO FRONT PCB
CT251	614 007 6356	TRIMMER.11PF(WH).MW
CT252	614 007 6332	TRIMMER.30PF(GR).LW
D2151	407 091 5004	VARACTOR DI SVC321SPA-C-2
D2152	407 091 5004	VARACTOR DI SVC321SPA-C-2
D2201	407 007 9904	DIODE 6MA01
D2301	407 007 9904	DIODE 6MA01
D2302	407 007 9904	DIODE 6MA01
D2401	407 007 9904	DIODE 6MA01
D2410	407 007 9904	DIODE 6MA01
D2411	407 005 4505	DIODE DS442X
D2901	△407 004 9105	DIODE DSF10C
D2902	△407 004 9105	DIODE DSF10C
D2903	△407 004 9105	DIODE DSF10C
D2905	407 051 6102	ZENER DIODE 6ZS33Y
D2907	△407 053 7206	ZENER DIODE MTZ6.2C
D2908	407 053 5905	ZENER DIODE MTZ4.7C
IC221	409 016 2204	IC LA1265S
IC231	409 016 9500	IC LA3361
IC241	409 066 7600	IC LM7001
IC291	△409 078 1405	IC L78M12ML
OR	△409 078 2402	IC L7812ML
L2121	614 034 7128	VHF COIL.AM-RF
L2122	614 034 7128	VHF COIL.AM-RF
L2151	614 032 8059	ANT COIL.MW
L2152	614 216 1029	TRANS.RF.LW
L2153	614 033 8904	O.S.C COIL.MW
L2154	614 034 1003	O.S.C COIL.LW
L2201	614 028 4379	FILTER.AM
Q2103	405 016 5900	TR 2SC2999-E-SPA
Q2151	405 017 9600	TR 2SC3330-T
OR	405 017 9709	TR 2SC3330-U
Q2152	405 021 0600	TR 2SD1012-G-SPA
Q2153	405 021 0600	TR 2SD1012-G-SPA
Q2154	405 021 0600	TR 2SD1012-G-SPA
Q2155	405 021 0600	TR 2SD1012-G-SPA
Q2156	405 021 0600	TR 2SD1012-G-SPA
Q2157	405 026 9004	TR 2SK222-D
Q2158	405 017 9600	TR 2SC3330-T
OR	405 017 9709	TR 2SC3330-U
Q2201	405 016 0806	TR 2SC2839-E
Q2202	405 017 9600	TR 2SC3330-T
OR	405 017 9709	TR 2SC3330-U
Q2203	405 003 5302	TR 2SA1317-T
OR	405 003 5401	TR 2SA1317-U
Q2301	405 017 9600	TR 2SC3330-T
OR	405 017 9709	TR 2SC3330-U

REF.NO.	PART NO.	DESCRIPTION
Q2302	405 017 9600	TR 2SC3330-T
OR	405 017 9709	TR 2SC3330-U
Q2351	405 003 5302	TR 2SA1317-T
OR	405 003 5401	TR 2SA1317-U
Q2352	405 017 9600	TR 2SC3330-T
OR	405 017 9709	TR 2SC3330-U
Q2353	405 021 0600	TR 2SD1012-G-SPA
Q2354	405 021 0600	TR 2SD1012-G-SPA
Q2403	405 003 5708	TR 2SA1318-T
Q2404	405 003 5708	TR 2SA1318-T
Q2405	405 003 5708	TR 2SA1318-T
Q2431	405 010 9607	TR 2SC1571-F-NP
Q2432	405 010 9607	TR 2SC1571-F-NP
Q2902	△405 018 0101	TR 2SC3331-T
Q2951	405 017 9600	TR 2SC3330-T
R2407	△401 019 9303	CARBON 47 JB 1/4W
R2902	△401 018 2909	CARBON 330 JB 1/4W
R2911	△401 018 1704	CARBON 33 JB 1/4W
SVR21	614 203 6617	SEMI-FIXED V.R.22K OHM(B)
SVR22	614 203 6594	SEMI-FIXED V.R.10K OHM(B)
SVR23	614 203 6594	SEMI-FIXED V.R.10K OHM(B)
SVR24	614 203 6532	SEMI-FIXED V.R.1K OHM(B)
T2202	614 030 4114	I.F.T.FM
T2203	614 029 3906	MX COIL.FM
T2301	614 027 7845	CHOKE,TRAP
T2302	614 027 7845	CHOKE,TRAP
X2401	614 204 0317	CRYSTAL.7.2MHZ

TUNER FRONT P.C. BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
72	614 229 9517	ASSY.PCB.DISP/SW
	614 227 1872	MOUNT-E.FL
CN295	614 221 9102	SOCKET.10P.TO MAIN PCB
CN296	614 221 9126	SOCKET.12P.TO MAIN PCB
CT241	614 007 6332	TRIMMER.30PF(GR).CLOCK
D2402	407 007 9904	DIODE 6MA01
D2403	407 007 9904	DIODE 6MA01
D2404	407 007 9904	DIODE 6MA01
D2405	407 007 9904	DIODE 6MA01
D2406	407 007 9904	DIODE 6MA01
D2407	407 007 9904	DIODE 6MA01
D2408	407 007 9904	DIODE 6MA01
D2420	407 007 9904	DIODE 6MA01
FL241	614 226 7561	FLUORESCENT TUBE.FOR TUNER
IC242	410 112.7406	IC HD404728A34S
L2401	614 028 4256	FILTER.100UH.CHOKE(RIPPLE)
Q2451	405 003 5302	TR 2SA1317-T
OR	405 003 5401	TR 2SA1317-U
RA241	614 218 0433	RESISTOR 100K X5
S2401	614 220 5655	SWITCH.TACT.CLEAR
S2402	614 220 5655	SWITCH.TACT.SLEEP
S2403	614 220 5655	SWITCH.TACT.WAKE UP
S2404	614 220 5655	SWITCH.TACT.TIMER
S2405	614 220 5655	SWITCH.TACT.CLOCK
S2406	614 220 5655	SWITCH.TACT.BAND
S2407	614 220 5655	SWITCH.TACT.SET
S2408	614 220 5655	SWITCH.TACT.MEMORY
S2409	614 220 5655	SWITCH.TACT.UP
S2410	614 220 5655	SWITCH.TACT.DOWN
S2441	407 138 4700	PHOTO CONNECTOR.REMOCON RECIEVER
X2402	614 229 3294	RESONATOR.4.19MHZ

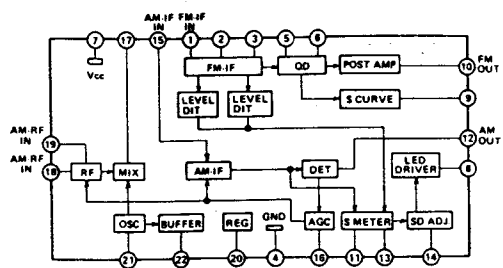
PARTS LIST (TUNER)

POWER TRANSFORMER P.C. BOARD ASSY

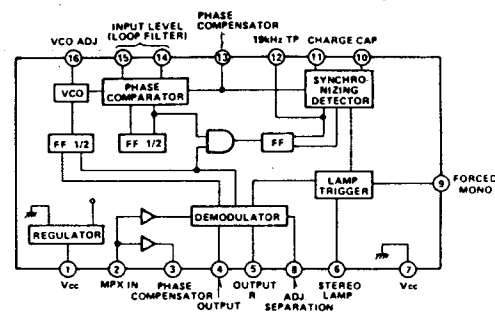
REF. NO.	PART NO.	DESCRIPTION
73	614 229 9524	ASSY.PCB.POWER TRANS
CN292	614 035 4980	SOCKET.9P.TO MAIN PCB
PT291	614 231 8782	POWER TRANSFORMER

IC BLOCK DIAGRAM (TUNER)

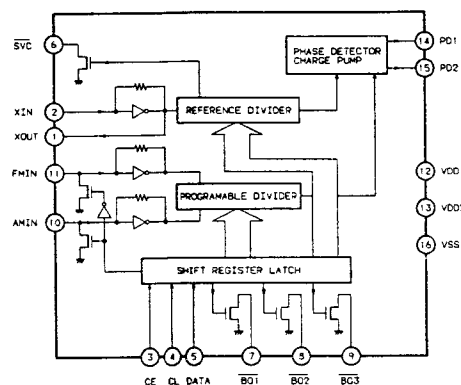
IC221 LA1265(Tuner System)



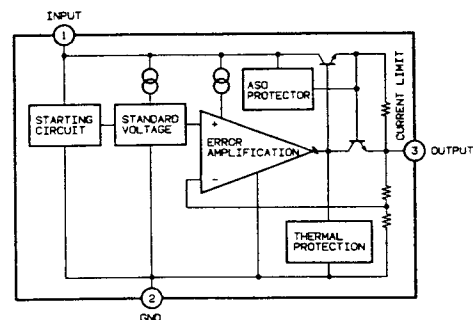
IC231 LA3361(PLL FM MPX. Stereo Demodulator)



IC241 LM7001(Pre-Scaler)



IC291 L78M12ML(3-Terminal Voltage Regulator)



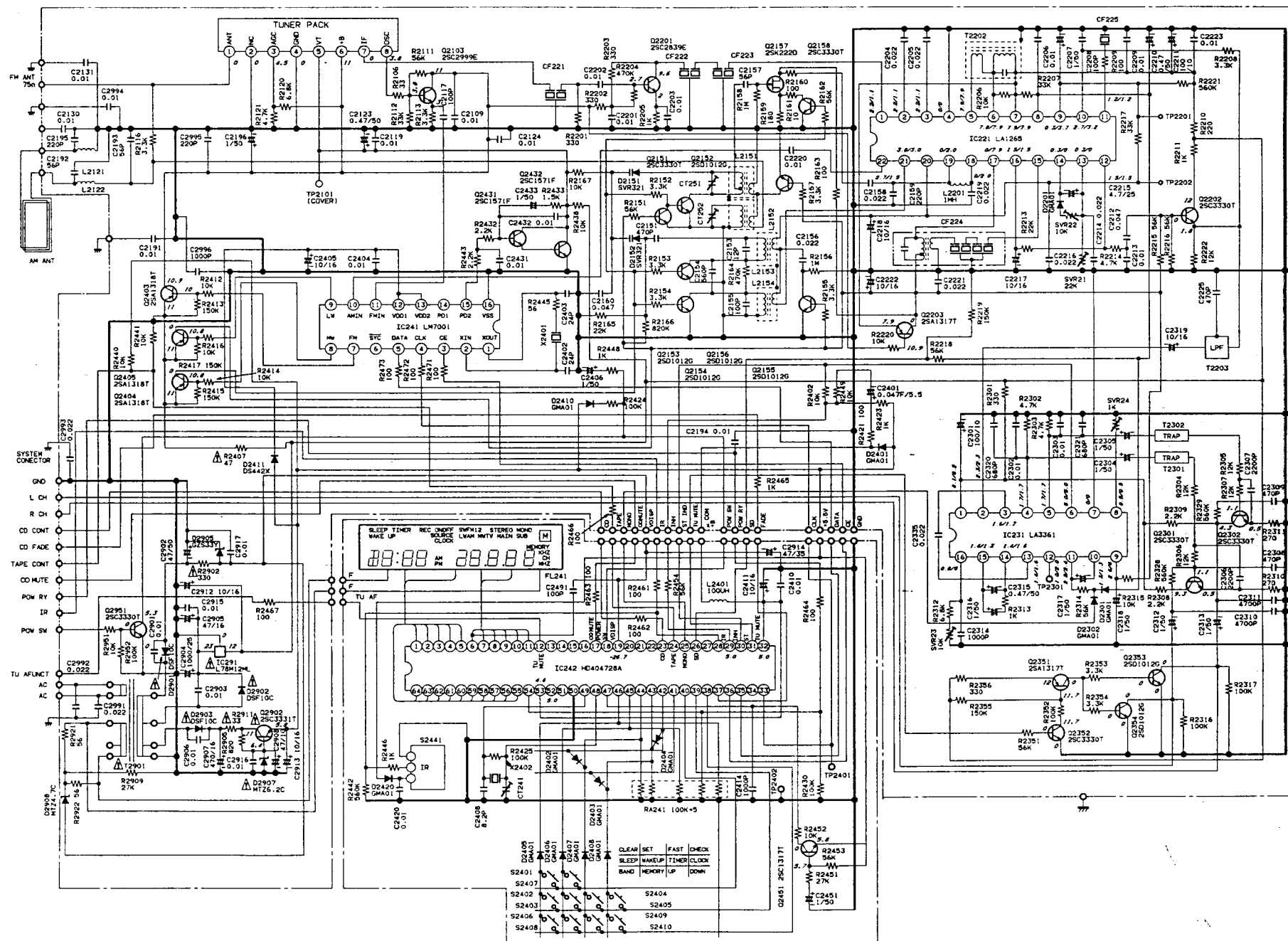
IC BLOCK DIAGRAM (TUNER)

IC242 HD404728A34S (4 - Bit Micro Processor)

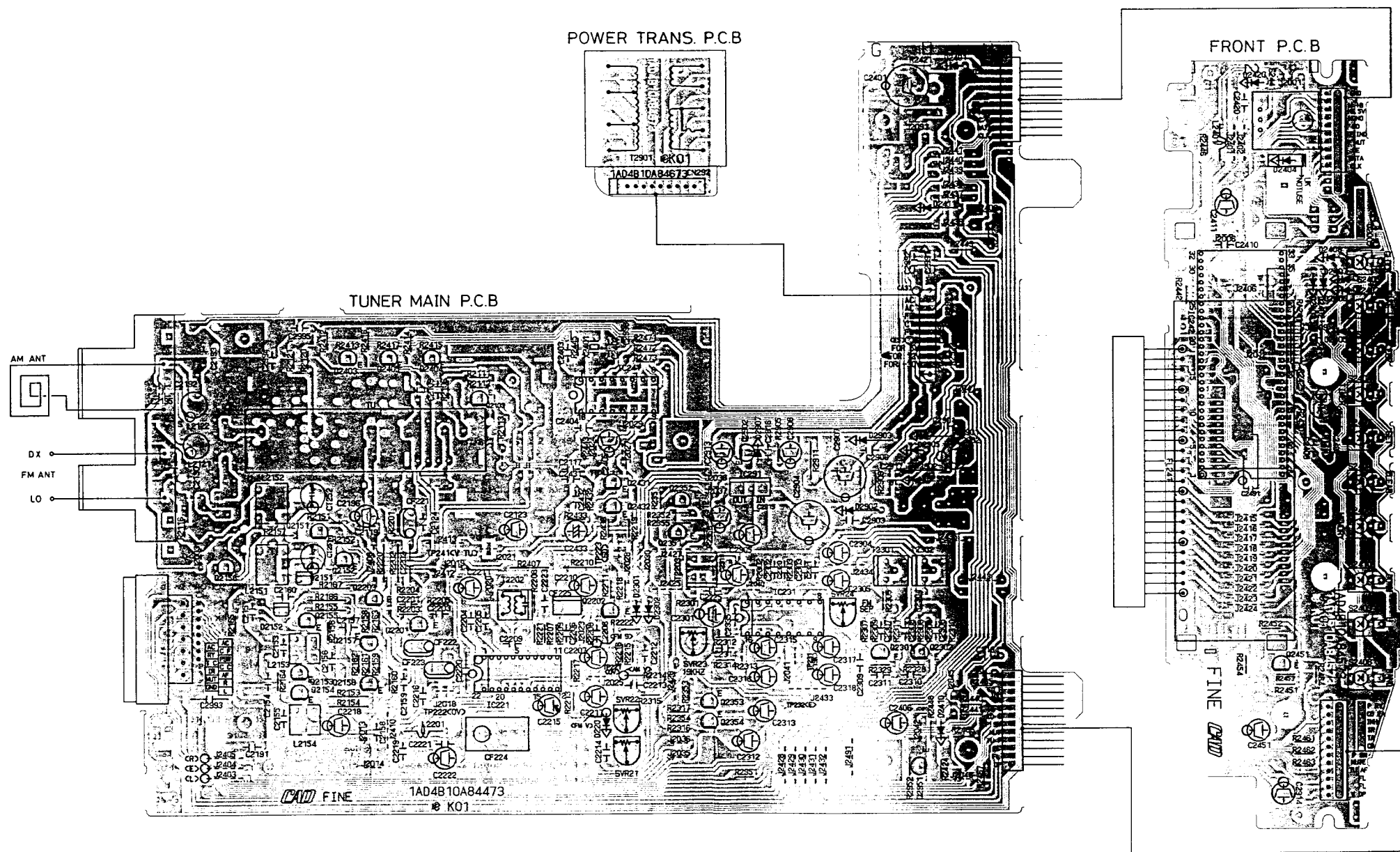
A*:initial B*:Active Mode C*:Back Up

No	Pin name	Description	High : Low :	A*	B*	C*
1	SEG.OUT5	FL segment output (SEG.OUT5)				
2	SEG.OUT4	FL segment output (SEG.OUT4)				
3	SEG.OUT3	FL segment output (SEG.OUT3)				
4	SEG.OUT2	FL segment output (SEG.OUT2)				
5	SEG.OUT1	FL segment output (SEG.OUT1)				
6	DIGIT OUT1	FL Digit output (DIG.OUT1)				
7	DIGIT OUT2	FL Digit output (DIG.OUT2)				
8	DIGIT OUT3	FL Digit output (DIG.OUT3)				
9	DIGIT OUT4	FL Digit output (DIG.OUT4)				
10	DIGIT OUT5	FL Digit output (DIG.OUT5)				
11	DIGIT OUT6	FL Digit output (DIG.OUT6)				
12	FUNCT4	FUNCTION SW signal output TUNER;Hi PULSE		L	H	L
13	FUNCT3	FUNCTION SW signal output AUX;Hi PULSE		L	H	L
14	FUNCT2	FUNCTION SW signal output VCR;Hi PULSE		L	H	L
15	FUNCT1	FUNCTION SW signal output DAT;Hi PULSE		L	H	L
16	-20dB MUTE	-20dB Muting output, ON/OFF→L/H		L	H	L
17	∞MUTE	∞Muting output, ON/OFF→L/H		L	L	Hi-imp
18	POWER SW	POWER SW key input, Nrm.→H			L	
19	Vdisp	Power source for display				
20	VOLUP	Vol Up signal output, Norm.→L		L	H	L
21	VOLDOWN	Vol Down signal output Norm.→L		L	H	L
22	VOLIND	VOL indicator LED output, Norm.→H, VOL mode→flushing		H	H	L
23	CD CONT	CD Control output, Timer;CD start→H, Norm.→L level		L	H	L
24	TAPE CONT	TAPE Control output, Timer and TAPE PLAY→L, TAPE REC→H, Norm.→Hi Impedance		Hi-imp	L/H	Hi-imp
25	FM MONO	FM compulsion monoral output, Stereo Auto→L, Compulsion Mono→H		L	H	L
26	TUNED/SD	TUNED/SD signal input			L	
27					L	
28	IR	Remote controller received signal				
29	INH	Inhibit AC PW detected, AC ON→, AC OFF→L			L	
30	STEREO IND	FM.STEREO received display input STEREO TIME→L level			L	
31	TU MUTE	TU Muting output Muting ON/OFF→H/L		H	H	Hi-imp
32	VCC	+Power source				
33	SCK	Clock signal output for data output to PLL IC				
34	SI					
35	SO	Data output to the PLL IC				
36	CE	Chip enable signal output to the PLL IC				
37	CD FADE CONT/OSC CHECK	CD Control output Norm: L, CD FADE IN-FADE OUT: H, PW OFF CHECK Key*1*: Clock output for adjustment		L	H	L
38	KEY OUT1	Key Matrix output signal 1				
39	KEY OUT2	Key Matrix output signal 2				
40	KEY OUT3	Key Matrix output signal 3				
41	KEY OUT4	Key Matrix output signal 4				
42	KEY OUT5	Key Matrix output signal 5				
43	KEY IN1	Key Matrix input signal 1				
44	KEY IN2	Key Matrix input signal 1				
45	KEY IN3	Key Matrix input signal 1				
46	KEY IN4	Key Matrix input signal 1				
47	RESET	(RESET)				
48	OSC2	(X'tal connect)				
49	OSC1	(X'tal connect)				
50	GND					
51	CL1					
52	CL2					
53	TEST					
54	POWER RY	POWER RELAY Control output Relay OFF:L Relay ON:H		L	H	Hi-imp
55	SEG.OUT15	FL segment output (SEG.OUT15)				
56	SEG.OUT14	FL segment output (SEG.OUT14)				
57	SEG.OUT13	FL segment output (SEG.OUT13)				
58	SEG.OUT12	FL segment output (SEG.OUT12)				
59	SEG.OUT11	FL segment output (SEG.OUT11)				
60	SEG.OUT10	FL segment output (SEG.OUT10)				
61	SEG.OUT9	FL segment output (SEG.OUT9)				
62	SEG.OUT8	FL segment output (SEG.OUT8)				
63	SEG.OUT7	FL segment output (SEG.OUT7)				
64	SEG.OUT6	FL segment output (SEG.OUT6)				

SCHEMATIC DIAGRAM (TUNER)

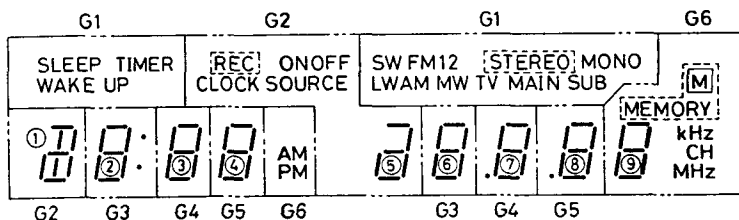


WIRING DIAGRAM (TUNER)



C BLOCK DIAGRAM

FL241 (Tuner Fluorescent Display)



[]: Red, ather Blue-green

Segment Map

	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15
G1	AM	SUB	MW	TV	SW	FM	1	2	MAIN	LW	STEREO	MONO	TIMER	SLEEP	WAKEUP
G2	OFF	ON	REC	SOURCE	CLOCK	5b	5adeg	5c	1a	1b	1h	1g	1e	1c	1d
G3	6a	6b	6f	6g	6e	6c	6d	.	2a	2b	2f	2g	2e	2c	2d
G4	7a	7b	7f	7g	7e	7c	7d	.	3a	3b	3f	3g	3e	3c	3d
G5	8a	8b	8f	8g	8e	8c	8d	.	4a	4b	4f	4g	4e	4c	4d
G6	9a	9b	9f	9g	9e	9c	9d	MEMORY		M	AM	PM	kHz	CH	MHz

Pin Assignment

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13
Segment Name	F	G6	G5	G4	G3	G2	G1	S15	S14	S13	S12	S11	S10
	14	15	16	17	18	19	20	21	22	23	24	25	
	S9	NC	NC	S1	S2	S3	S4	S5	S6	S7	S8	F	

CD PLAYER UNIT (DC-T44CD)

LASER BEAM SAFETY PRECAUTIONS

Do not look directly at the laser beam coming from the pick-up or allow it to strike against your fingers, skin, etc.
Do not apply power if there is a broken part in the laser output section of the pick-up.

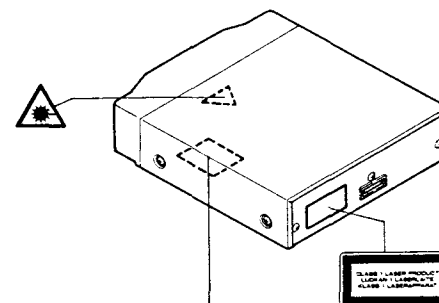
Structural Safety Interlock

This model has a disc chuck lever and top lid. This disc chuck lever and top lid prevent to expose the laser beam for users.

INVISIBLE LASER RADIATION EXPOSURE TO BEAM IS DANGEROUS CLASS 1 LASER PRODUCT

OUTPUT POWER : 0.6 mW MAX

WAVELENGTH : 790 nm



CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL - UETYNLIG LASER STRÅLING VED ÅBNING. NÅR SIKKERHEDSANLÆGGENDE ER UDE AF FUNKTION, UNDGÅ UDSÆTTELSE FOR STRÅLING.
WARNING - UETYNLIG LASER STRÅLING NÅR DENNEN DEL ER ÅPNET OG SIKKERHEDSANLÆGGENDE ER UDE AF FUNKTION. UNNGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT - UETYNLIG LASERSTRÅLUNG TRITTT AUSS, WENN SICHERHEITSVEREINBARUNGEN AUSGEHEBET SIND. VERMEIDEN SIE DEN STRAHLENAUSSETZUNG.
VAROITUS - LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITTUILLA TAVALLA SAAATTAA ALTTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSTRÄLLELLE.

1. HANDLING THE PICK-UP

1. Shipping and storage cautions

- The pick-up must be stored in a conductive bag until immediately prior to its use.
- Do not drop it or subject it to impacts.

2. Repair cautions

- When handling the pick-up, be careful not to give it undue force or shock by your hands. Otherwise the pick-up may malfunction or the PCB may be cracked.
- The pick-up which has been minutely adjusted before shipment as one part. Never touch and move the adjusting points and setscrews of the pick-up unless otherwise described in the item of adjustment to avoid damage.

c. A strong magnet is used in the pick-up.

Do not bring a magnet or other magnetized object near to it.

d. Cleaning the lens

- * If dust gets on the lens, clean it away by using an air brush such as used for a camera lens.
 - * The lens is held in place by a spring.
- If the center of the lens is dirty, carefully clean it using cotton swab moistened with isopropylalcohol. Since special coating is made on the surface of the lens which is made of plastics, do not use other kind of alcohol and cleaning fluid to prevent damage to the lens. Also, be careful not to bend the lens spring when cleaning.

BEFORE REPAIRING THE CD PLAYER

1. Preparations

- Many ICs, LSI and the Pick-up (laser diode) are used in the compact disc player. These components are sensitive to static electricity, and might be damaged by static electricity or high voltage, so particular care should be taken regarding this point.
- Many precision components and the lens are used in the pick-up.
Never attempt to make repairs, or to store parts, where the temperature or humidity is high, where magnetism is strong, or where there is much dust.

2. Notes regarding repairs

- Be sure to first disconnect the power plug before attempting to replace any component.
- All tools, instruments, etc., used for measuring must be grounded.
Grounding can be accomplished by using a conductive metal sheet on the work bench.
- To prevent AV leakage of the soldering iron, ground its metal part.
- Repair personnel must be grounded.

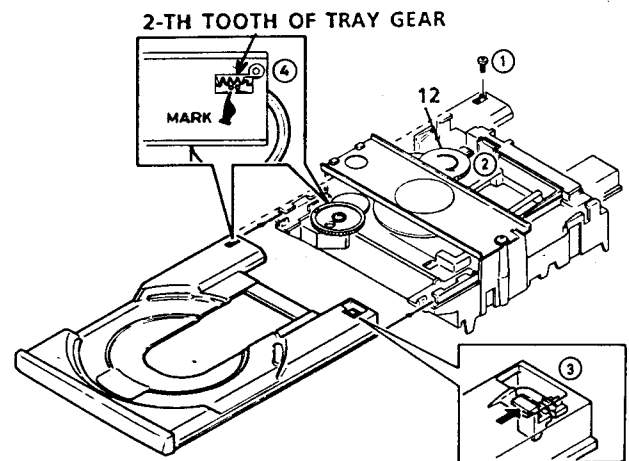
CD MECHANISM REMOVAL

1. PREPARATIONS

- When handling the pick-up, take care not to exert excessive force, and particular care should be taken not to touch the lens or the drive circuits printed circuit board pattern.
- When if disc tray was deep in, stop to pull the disc tray by force at hand and push from rear. Because it do so, break the teeth of Tray gear (6).

2. EXCHANGE THE DISC TRAY

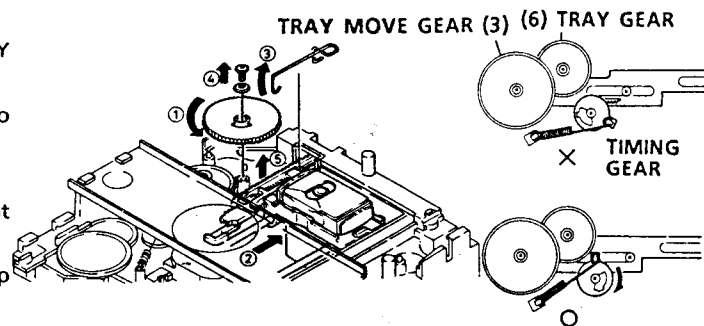
- Remove the screw. (①)
- Turn right the Gear (12) and take to left end the disc tray. (②)
Be not sure the disc tray to pull by force at hand.
- Push forward the claw of disc tray, and pull out it. (③)
- When mount the disc tray, Gear (12) to turn the right way of the arrow. (②)
- Set the disc tray to put at mechanism chassis.
- Being push the disc tray, confirm the Tray drive gear(3) and disc tray are closely gear with as figure.(④)
- Fasten a screw. (①)



3. CD MECHANISM REMOVAL

(1) HOW TO PICK-UP BLOCK

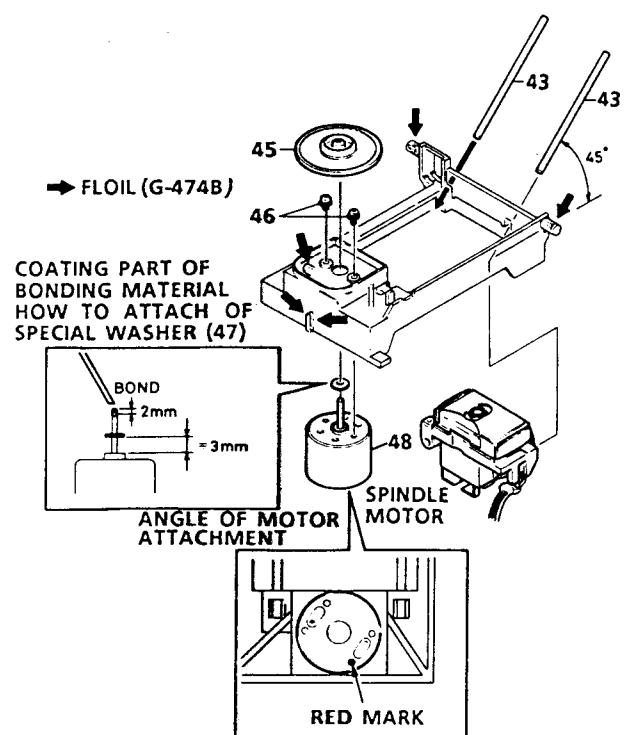
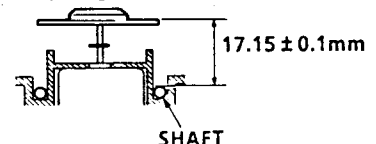
- Remove the disc tray. (See "2" EXCHANGE THE DISC TRAY 1),2),3))
 - Take to left end the gear (12) and turn the pick-up left way to the arrow ②.
 - Remove the spring wire by tweezers. (③)
 - Continuously, remove the pick rack gear. If pick-up was not move a direction of the arrow ②, it is not able to remove.
 - If remove to fasten the pick-up block by the screw(51), pick-up block is removable.
- # Set the timing gear to ○ condition.



(2) HOW TO REPLACEMENT OF THE SPINDLE MOTOR

- First, prepare the new turntable and new special washer for replacement.
- The removed turntable will be formed by the heat of the soldering iron, and can not be reused.
- Prepare the dial-type calipers.
- Attached bonding material can be dissolved by using a 60W soldering iron to heat the shaft at the top part of the Turntable(45) for about one minute.
 - Turntable (45) can then be removed from the shaft with very carefully applying force upward at the center of the lower surface of the turntable.
 - Remove the two screws (46) and remove the Spindle motor (48).
 - Wipe off the motor shaft from top to lower 10mm more by using a piece of cloth with methanol.
 - Attach the special washer (47) to the spindle motor.
 - Attach the motor to the chassis.
 - Apply a half of grain of rice to mount at the shaft about 2mm under from top.

HOW TO ATTACH OF TURNTABLE



Bonding materials are mixed with "Three Bond 2001" and "2105F" and mixture ratio is 1:1.

CD MECHANISM REMOVAL

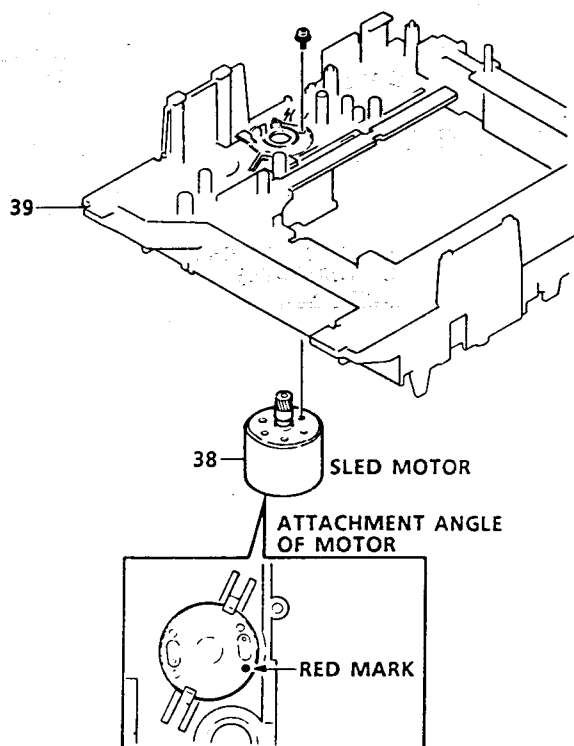
- 8) Install the new turntable as shown in the right figure.
- 9) Secure the turntable by pressing gently.
- 10) Confirm any bonding material coming out of the upper face (hole) of the Turntable, if it do so be sure to attach the methanol and wipe away by using a piece of cloth or similar materials.
- Install the spindle motor as angle of previous page right below.
- Insert the shaft(43) as 45°angle.
If broken the stopper wing, wipe the shaft by using a piece of cloth and apply the cemedine #575 and fix the chassis (50) and the shaft..

(3) REPLACEMENT AND LUBRICATION OF THE PICK-UP

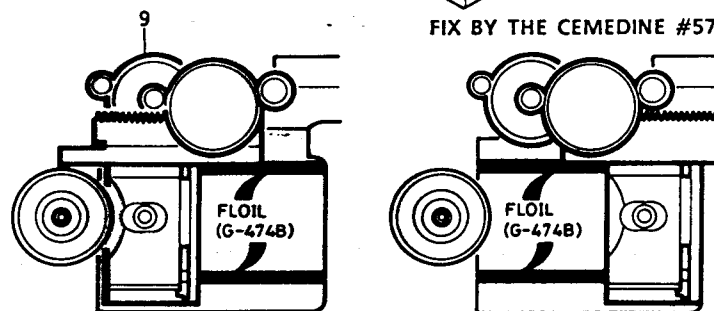
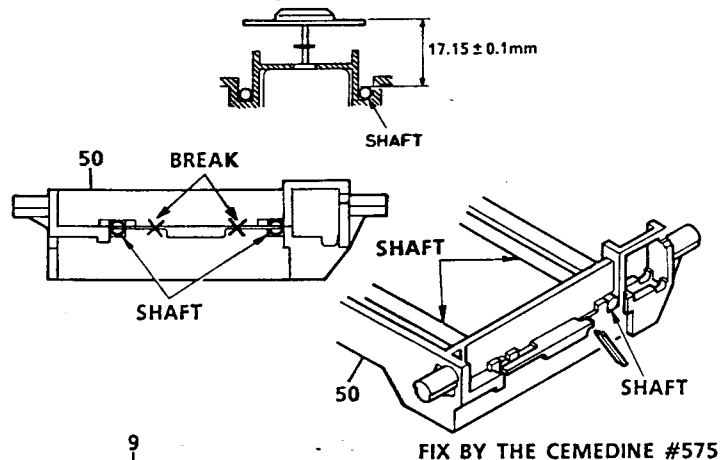
- 1) Pull out the two shaft (pick-up rail) from chassis.
- 2) If the pick-up is reconditioned or replaced, be sure to wipe the rails and also apply a coating of FLOIL (G-474B) to their entire circumference and entire length.

(4) REPLACEMENT OF THE SLED MOTOR

Remove the two pan-head screws that hold the motor, and then replace the motor (38).

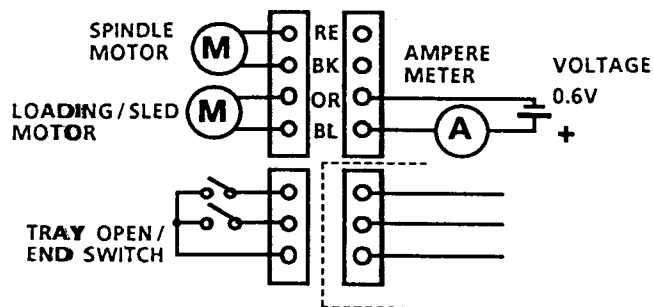


HOW TO ATTACH OF TURNTABLE



(5) CHECKING THE OPERATION OF THE SLED MOTOR (The state of disc tray remove)

- 1) Apply a voltage of 0.6V.
Confirm the direction of movement of the pick-up to inner groove to outer groove can't stop and move it smoothly.
- 2) Apply a voltage of 4.0V and after loading and gear (9) is slip.
Confirm the current 120mA or more to at this time.

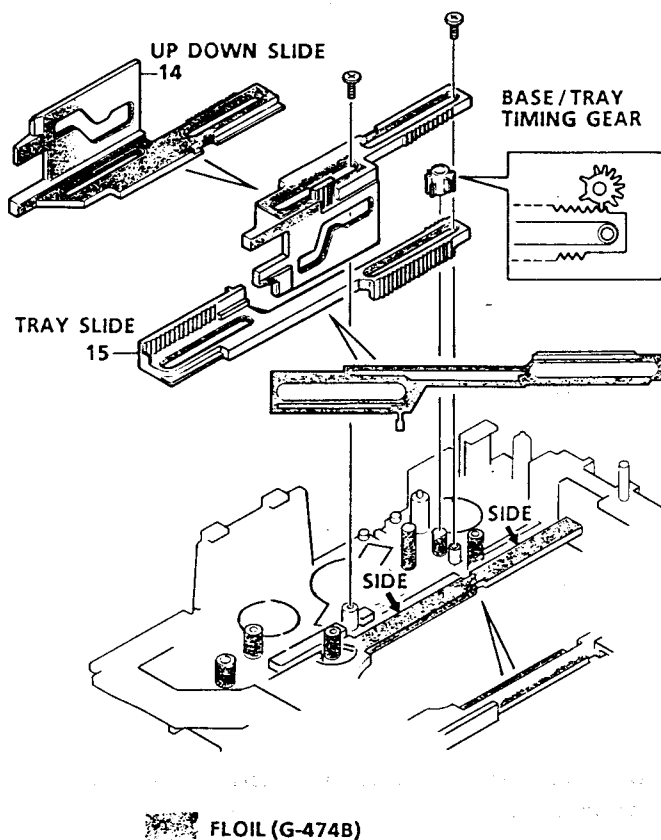


CD MECHANISM REMOVAL

4. CD MECHANISM ASSEMBLY & APPLY GREASE

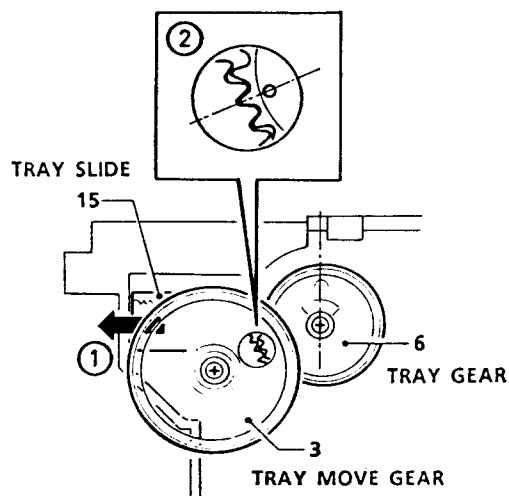
(1) APPLY GREASE AND INSTALL THE TRAY SLIDE

- 1) Apply the grease FLOIL (G-474B) at part of right figure.
- 2) When insert a tray slide (15), set up the installation position with base and tray timing gear as follow figure.



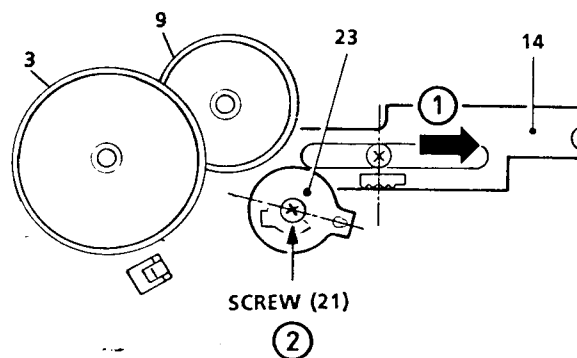
(2) INSTALL THE TRAY GEAR

- 1) Near the Tray slide (15) in the direction of the arrow.(①)
- 2) Match the inner gear center of Tray gear (6).
- 3) Install the Tray move gear (3) with match the outer gear make(○) of Tray gear (6) as figure below.

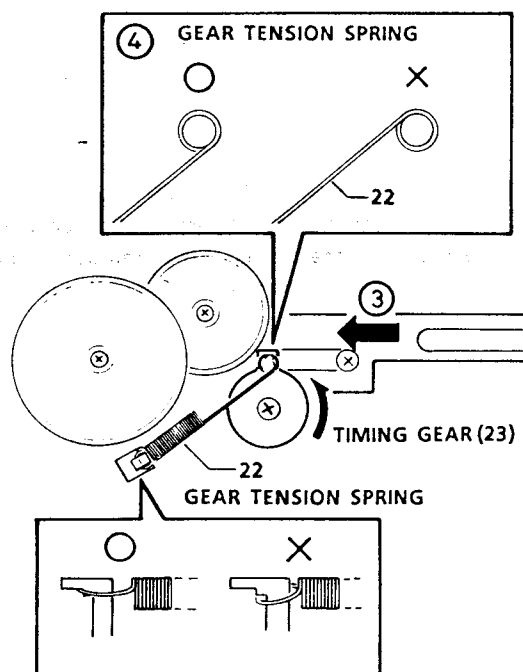


(3) INSTALL THE BASE-UP/DOWN SLIDE AND TIMING GEAR

- 1) When near the Base up/down slide (14) in the direction of the arrow(①), set up the four gear(23) as follow figure position.
- 2) Insert the timing gear and stop by the screw (21).(②)
- 3) Turn the timing gear (23) to left direction.



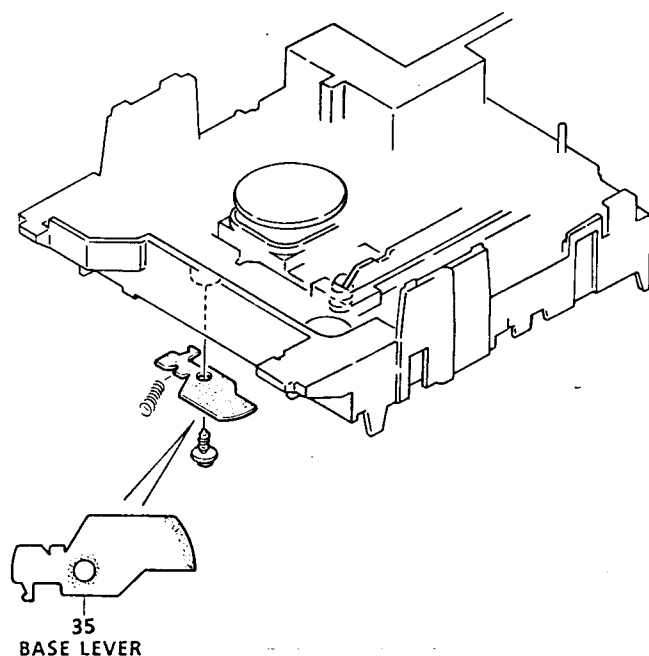
- 4) Hook the gear tension spring (22) to timing gear (23).



CD MECHANISM REMOVAL

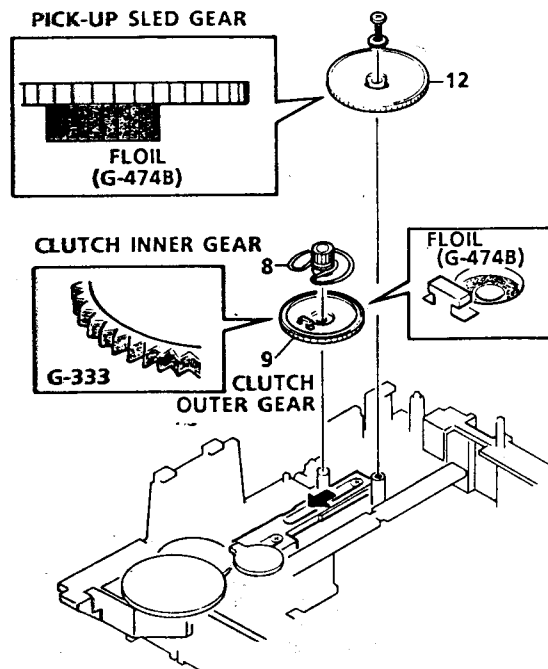
(4) APPLY A GREASE OF BASE LEVER (35)

Apply a coating of FLOIL (G-474B)



(5) APPLY A GREASE

- 1) Apply a coating of FLOIL (G-474B) to their entire circumference to Pick-up sled gear (12).
- 2) Apply a grease (G-333) to outside of clutch outer gear (9).
- 3) Apply a FLOIL (G-474B) to figure parts of clutch outer gear.

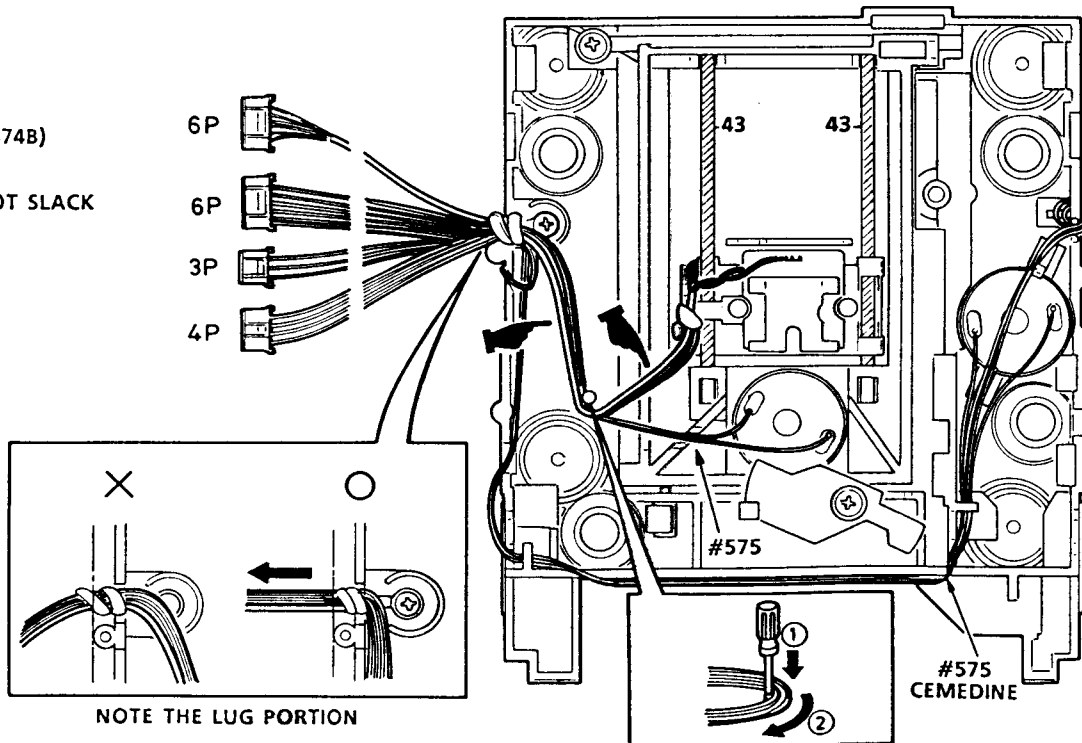


(6) LEAD RETAINER AND APPLY A CEMEDINE

- 1) Set up a pick-up to inner side and pass through on the pin (a), still more lead retainer not to touch at motors outside (b) and fixed the lug. Finally, confirm the pick-up moves smoothly from inner to outer circumference.
- 2) Apply a cemedine #575 for fix the lead retainer and fixed it.
- 3) Confirm the FLOIL (G-474B) to apply the pick-up rail (43).

 FLOIL(G-474B)

 BE NOT SLACK



CD ADJUSTMENT

• Measurement instruments

- ① Test Disc : YED518(SONY)
- ② Oscilloscope : 10MHz class or Storage scope
Oscilloscope : 10MHz class or DC voltage meter
- ③ Frequency Counter
- ④ Adjustment Driver (Non metallic) : for SVR11

In the adjustment, use the relay cord : 614 229 7094

For connection PCB :

CD MAIN PCB(CN142) and SERVO D/A PCB(CN105)

ITEM	CONNECTION	PARTS	REMARKS
① PLL VCO Free Run	Frequency Counter (PLCK - GND)	T102	4.30 ± 0.01 MHz
② Tracking Balance	Oscilloscope (TE - GND)	SVR11	Symmetrical Waveform

1. INITIAL

- ① Perform initial setting for SVR11 as shown in fig.4.

2. FREERUN FREQUENCY ADJUSTMENT FOR PLL-VCO.

- ① Connect the frequency counter to TP37(H), TP104(E).
- ② Turn on the power of the unit.
- ③ Adjust T102 so that the frequency counter reads 4.30 ± 0.01 MHz.
 - If this adjustment is no good, get the long seek time, not read TOC, not sound in the worst case become high speed tuning reverse and it may wound the disc.

3. TRACKING BALANCE

- ① Connect the oscilloscope to TP103(TE), TP104(E).
- ② Turn on the power of the unit.
- ③ Insert Test Disc and press the Play button.
- ④ Continuously press the forward(or reverse) search button.
- ⑤ Adjust SVR11 so that the waveform of TP103(TE) is vertically symmetrical relative to DC 0V level. (Refer to fig.1.
- If this adjustment is imperfect, become run away the sled motor (pick sending motor), inferior playability.

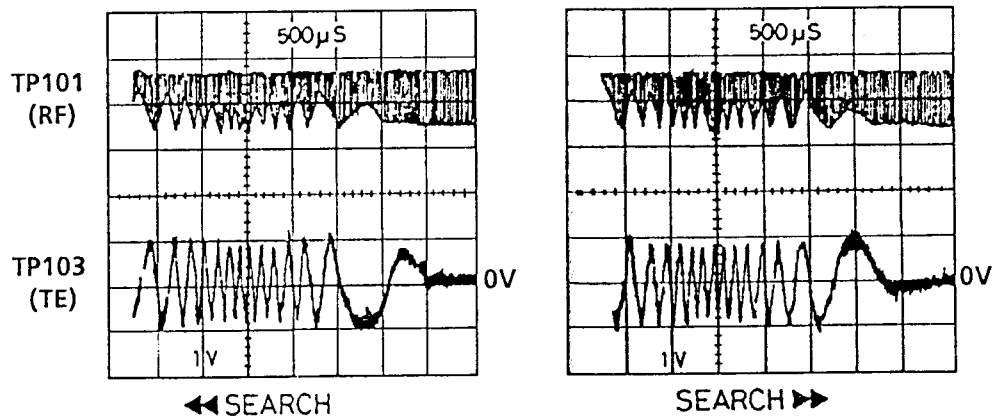


Fig.1

Eye Pattern (Refer Figure)

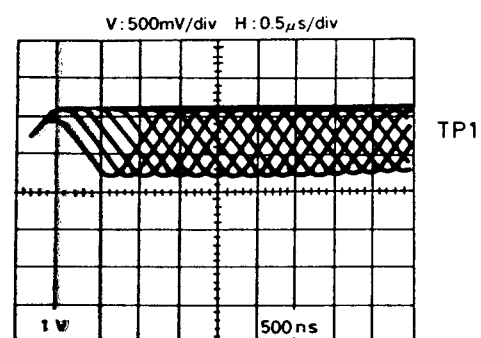
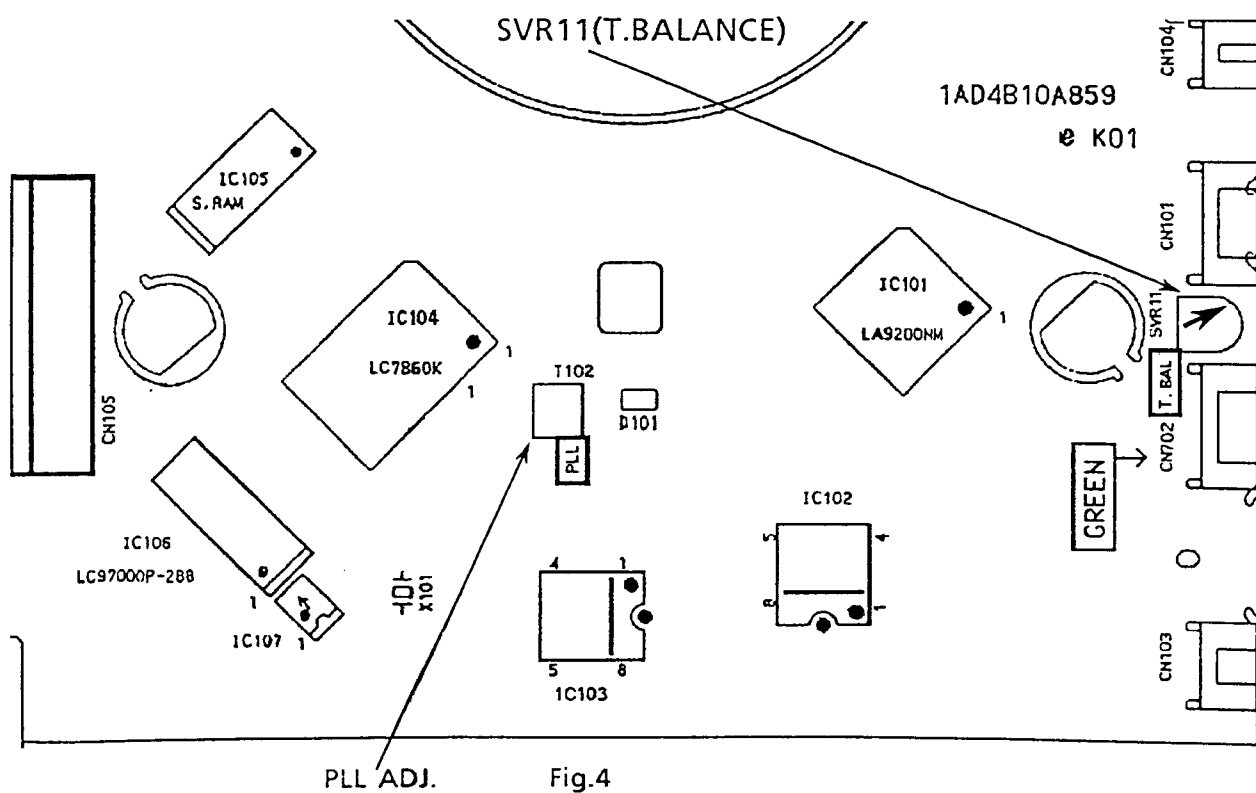
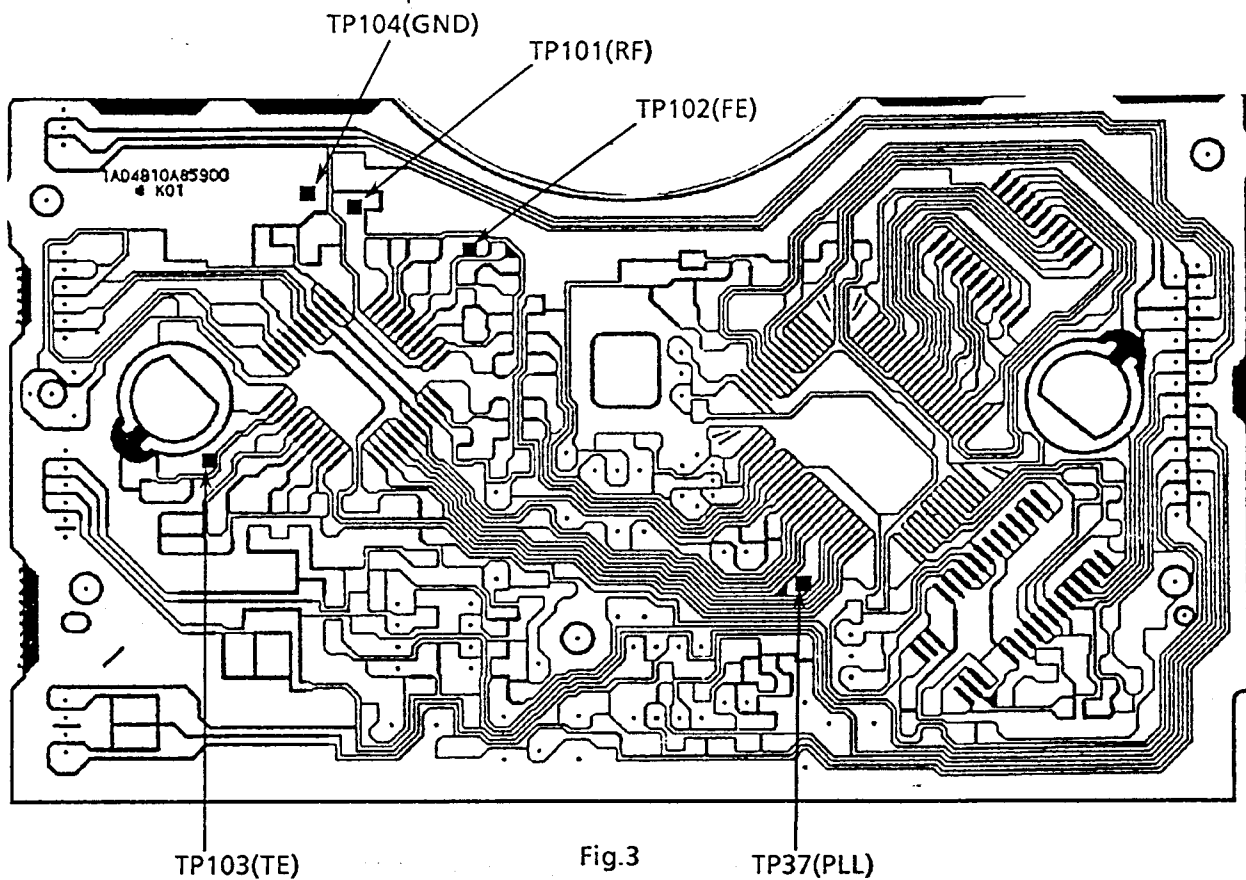


Fig.2

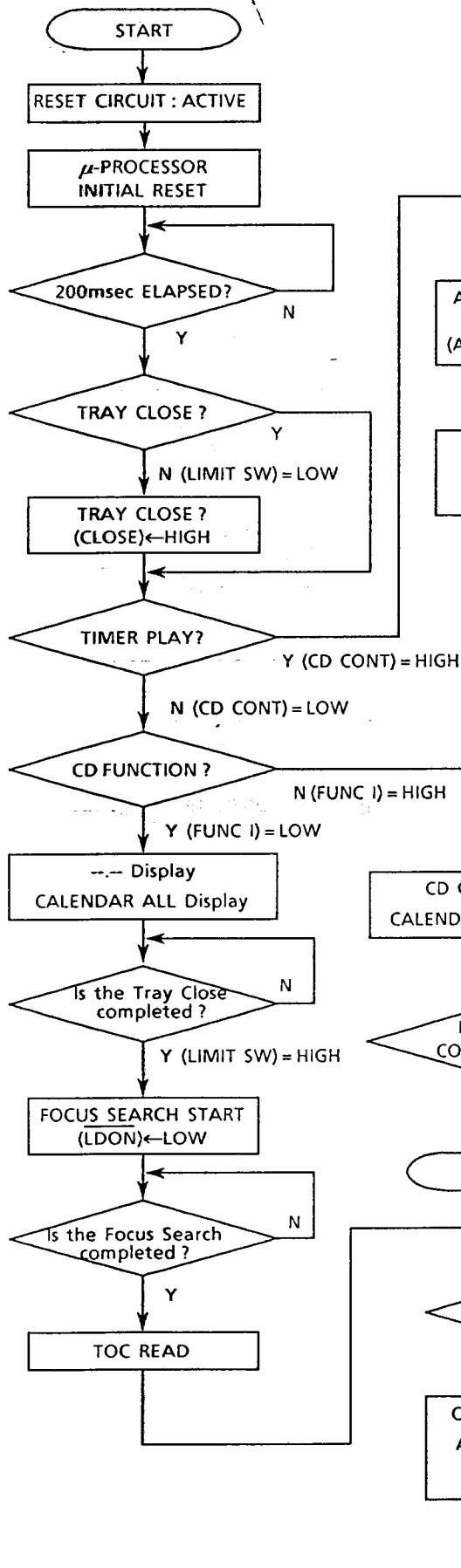
CD ADJUSTMENT

4. PARTS LOCATION

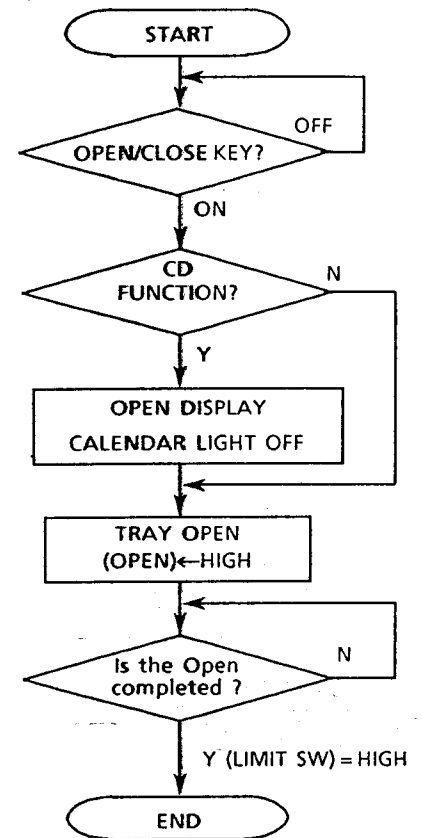


FLOW CHART (CD)

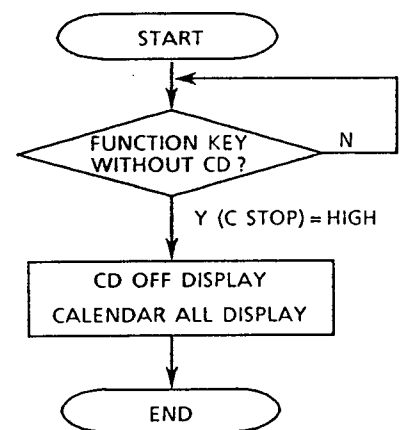
(1) Power On Mode



(2) The Tray open from the Stop mode

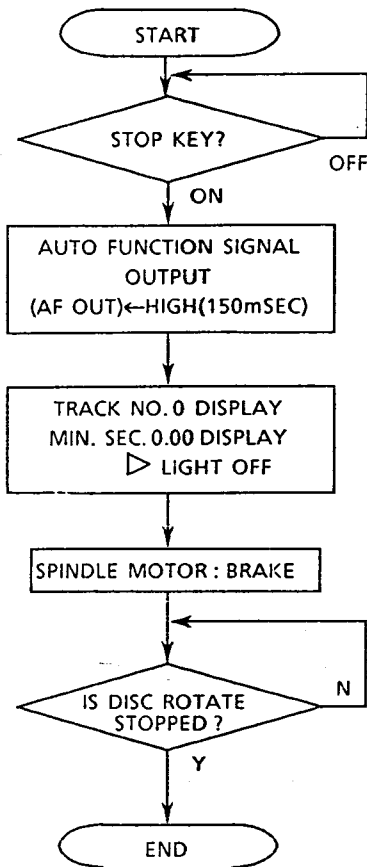


(3) The Other Function from the Stop mode

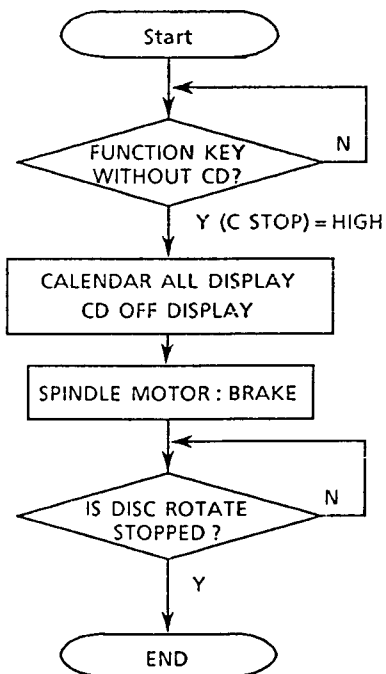


FLOW CHART (CD)

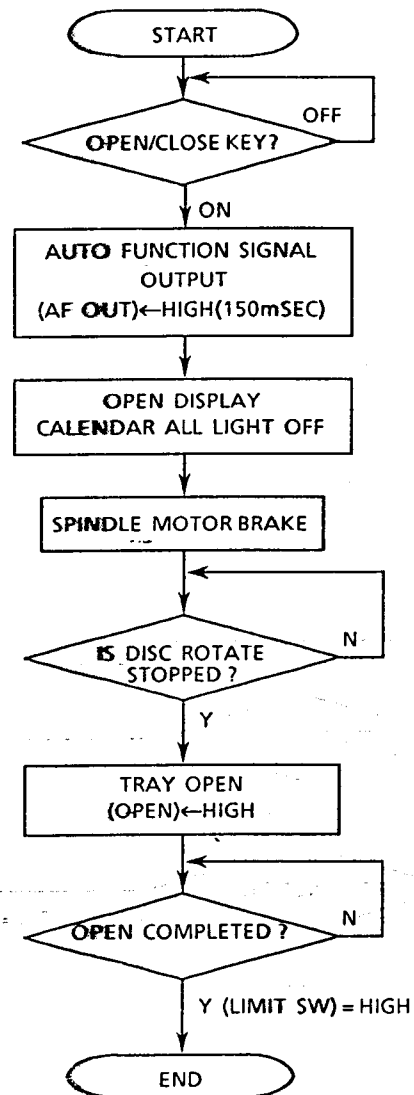
(4) To the Stop mode from the Play-Back



(5) To the Other mode from the Play-Back

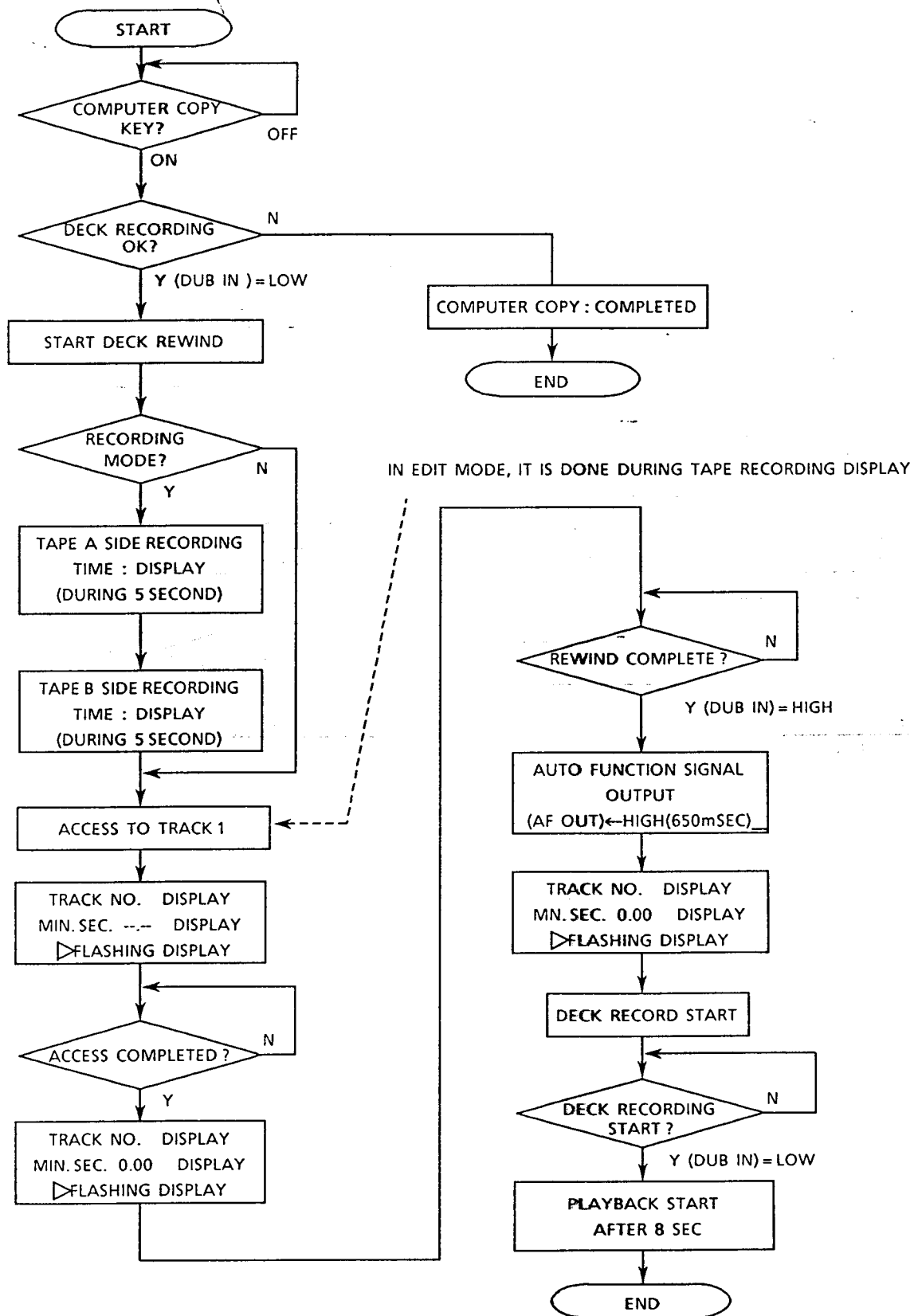


(6) To the Open mode from the Play-Back



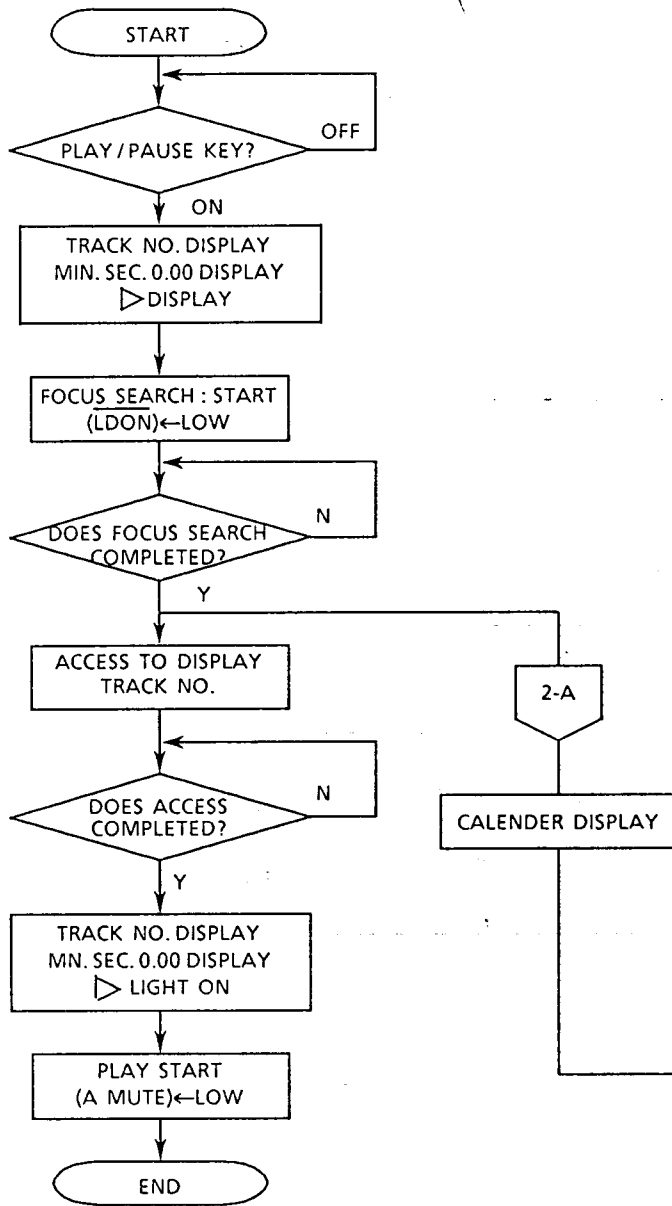
FLOW CHART (CD)

(7) Computer copy

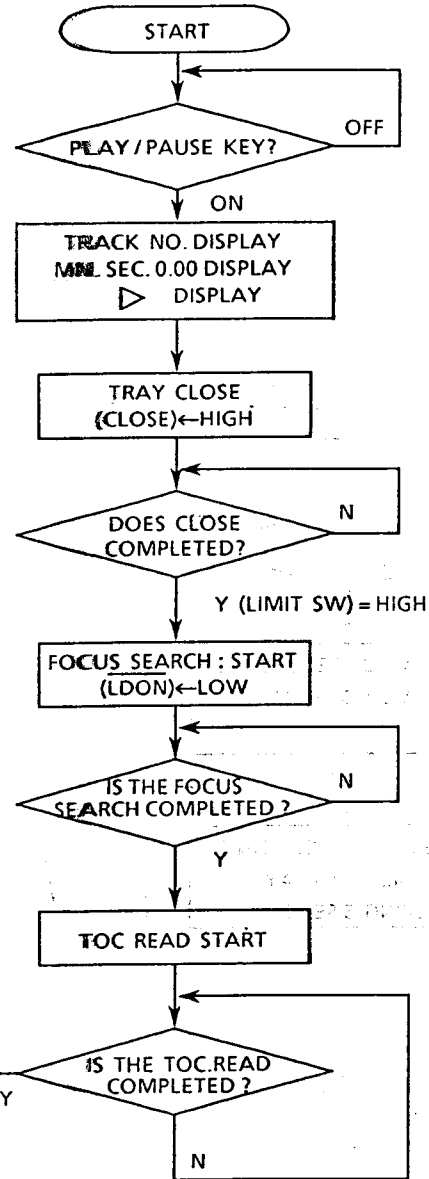


FLOW CHART (CD)

(8) To the Play-Back from the STOP

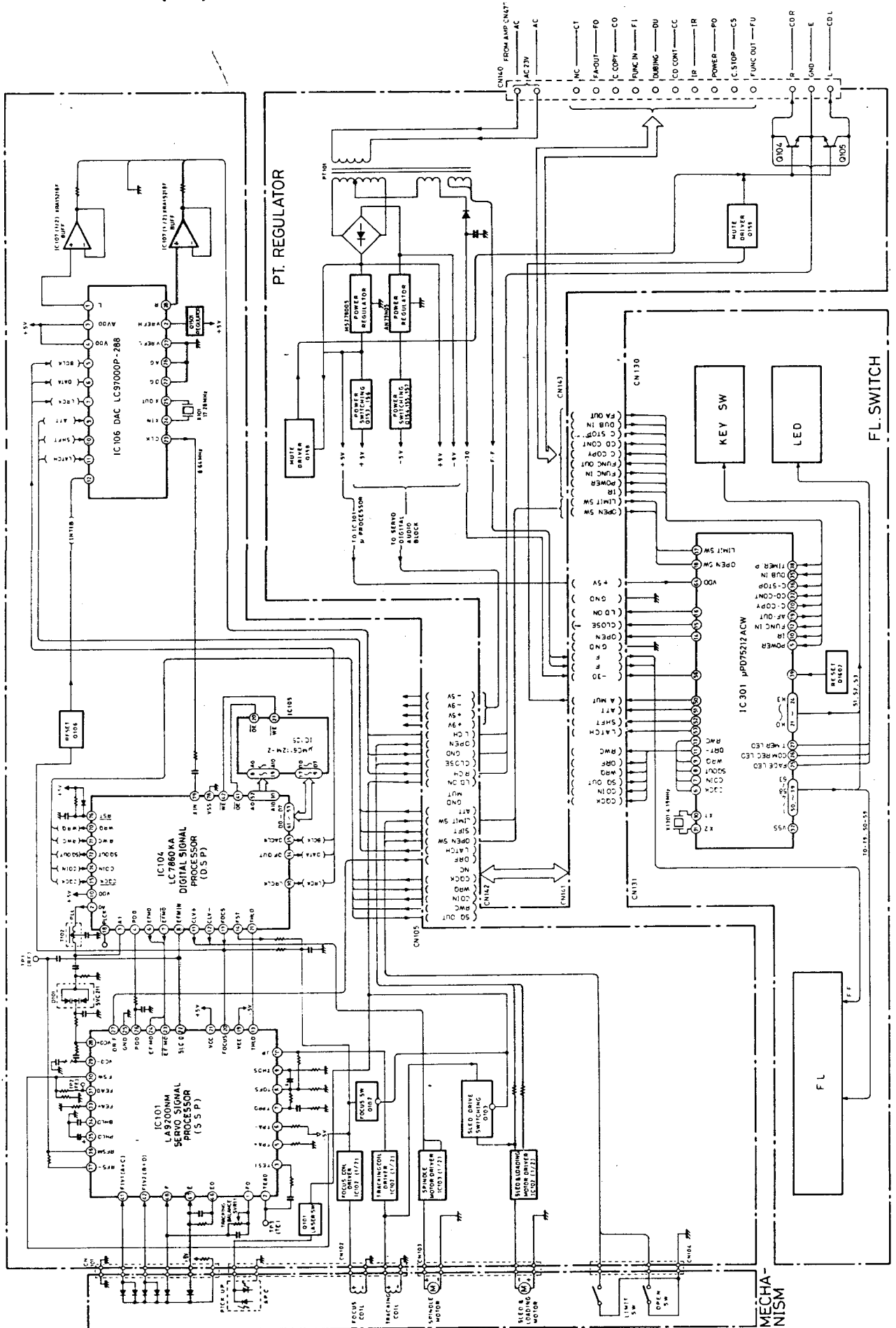


(9) To the Play-Back from the Tray-open

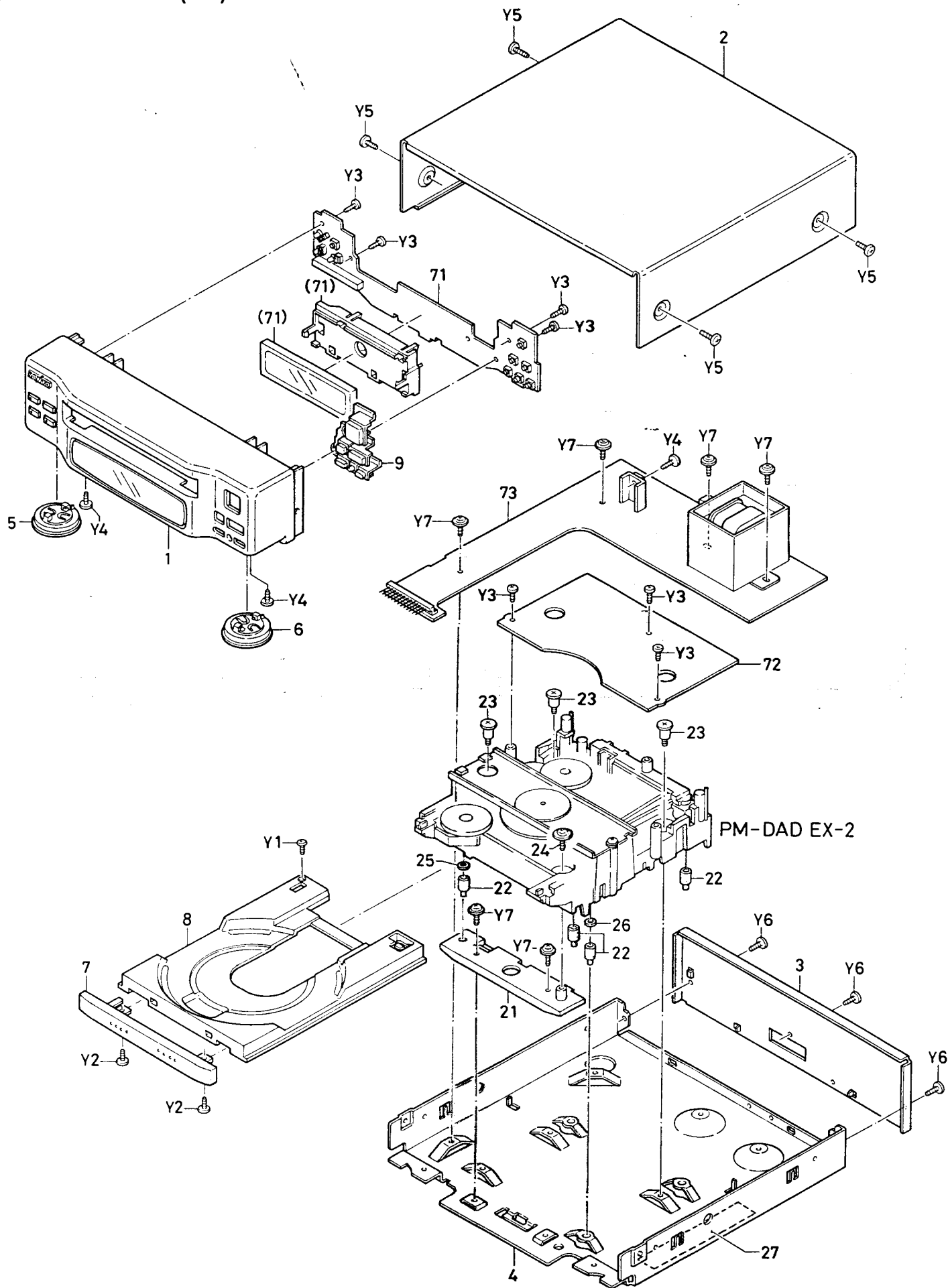


BLOCK DIAGRAM (CD)

MECHA SERVO



EXPLODED VIEW (CD)



PARTS LIST (CD)

CABINET & CHASSIS (DC-T44CD)

REF.NO.	PART NO.	DESCRIPTION
1	614 227 1063	ASSY.PANEL.FRONT
2	614 227 0967	ASSY.CABINET
3	614 240 9107	PANEL.REAR
4	614 227 5641	ASSY.CABINET.BOTTOM
5	614 227 1131	ASSY.FOOT.FRONT-L
6	614 227 1148	ASSY.FOOT.FRONT-R
7	614 227 1322	ESCUTCHEON.CD DOOR
8	614 224 2124	TABLE.LOADING.CD TRAY
9	614 227 1643	BUTTON.PLAY/PAUSE
21	614 227 5740	MOUNT-M.CD MECHA
22	614 195 6978	RUBBER CUSHION.MECHA FLOAT
23	412 004 5705	SPECIAL SCREW.MECHA FIX(3 USED)
24	412 003 1708	SPECIAL SCREW.MECHA FIX(1 USED)
25	412 012 8002	SPECIAL WASHER.CD MECHA(LEFT)
26	412 012 7906	SPECIAL WASHER.CD MECHA(RIGHT)
27	614 232 0464	LABEL,SEFETY.CAUTION.LASER BEAM
28	614 191 3698	LABEL.CAUTION.LASER BEAM

FIXING PARTS (DC-T44CD)

REF.NO.	PART NO.	DESCRIPTION
Y1	411 022 8408	SCR S-TPG PAN 2X8
Y2	411 021 1202	SCR S-TPG BIN 2X8
Y3	411 021 1806	SCR S-TPG BIN 2.6X10
Y4	411 021 6405	SCR S-TPG BIN 3X8
Y5	411 021 6603	SCR S-TPG BIN 3X8
Y6	411 021 3503	SCR S-TPG BIN 3X10
Y7	411 020 9902	SCR S-TPG BRZ+FLG 3X8

CD FRONT P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
71	614 228 4391	ASSY.PCB.FL.MICON
	614 227 1865	MOUNT-E.FL
CN130	614 017 2621	PLUG.11P.TO MAIN PCB
CN131	614 226 2542	SOCKET.20P(B TO B).TO MAIN PCB
D168	407 012 4406	DIODE 1SS133
OR	407 007 9904	DIODE GMA01
D169	407 012 4406	DIODE 1SS133
OR	407 007 9904	DIODE GMA01
D171	407 012 4406	DIODE 1SS133
OR	407 007 9904	DIODE GMA01
D173	407 053 8807	ZENER DIODE MT29.1B
D174	407 012 4406	DIODE 1SS133
OR	407 007 9904	DIODE GMA01
D175	407 012 4406	DIODE 1SS133
OR	407 007 9904	DIODE GMA01
D176	407 012 4406	DIODE 1SS133
OR	407 007 9904	DIODE GMA01
D177	407 127 5107	LED SLP-881C-51-B.T.EDIT
OR	407 132 5901	LED SLP-881C-51-C.T.EDIT
D178	407 127 5107	LED SLP-881C-51-B.C.REC
OR	407 132 5901	LED SLP-881C-51-C.C.REC
D179	407 127 5107	LED SLP-881C-51-B.F.EDIT
OR	407 132 5901	LED SLP-881C-51-C.F.EDIT
FL101	614 226 7950	FLUORESCENT TUBE.FOR CD
IC301	410 112 3309	IC UPD75212ACW-256
Q162	405 000 4407	TR DTC124ES
Q162	405 018 2600	TR 2SC3400
S1001	614 219 0876	SWITCH.TACT.TIME EDIT
S1002	614 219 0876	SWITCH.TACT.FADE EDIT
S1003	614 220 5631	SWITCH.TACT.EDIT
S1004	614 219 0876	SWITCH.TACT.C.REC
S1005	614 220 5631	SWITCH.TACT.OPEN/CLOSE

REF.NO.	PART NO.	DESCRIPTION
S1006	614 220 5631	SWITCH.TACT.PLAY/PAUSE
S1007	614 220 5631	SWITCH.TACT.STOP/CLEAR
S1008	614 220 5631	SWITCH.TACT.MEMORY
S1009	614 220 5631	SWITCH.TACT.FWD
S1010	614 220 5631	SWITCH.TACT.BACK
X1301	614 215 5608	RESONATOR.4.19MHZ

SERVO-SIGNAL PROCESSOR P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
72	614 231 9697	ASSY.PCB.SERVO DA
CN101	614 017 3857	PLUG.6P.PICK SENSOR
CN102	614 017 3857	PLUG.6P.PICK COIL
CN103	614 017 3833	PLUG.4P.MECHA MOTOR
CN104	614 017 3826	PLUG.3P.MECHA SW
CN105	614 227 8017	SOCKET.24P.TO MAIN PCB
D101	407 105 0100	VARACTOR DI SVC211-B-AL
D102	407 003 3609	DIODE DAN202K
IC101	409 124 6507	IC LA9200NM.SSP
IC102	409 139 4901	IC LA6517
IC103	409 139 4901	IC LA6517
IC104	409 200 0702	IC LC7860KA.DSP
IC105	409 228 0500	IC UM6116M-2
OR	409 128 0006	IC LC3517BM-15
IC106	409 206 9006	IC LC97000P-288.DAC
IC107	409 241 5506	IC XRA15218F
Q101	405 096 9607	TR DTA1132K
Q102	405 000 4100	TR DTC124EK
Q103	405 000 4100	TR DTC124EK
Q106	405 000 4100	TR DTC124EK
Q107	405 014 4509	TR 2SC2412K-R
R1901	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1902	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1903	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1904	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1905	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1906	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1951	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1952	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1953	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1954	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1955	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1956	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1957	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1958	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1959	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1960	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1961	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1962	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1963	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
SVR11	614 203 6655	SEMI-FIXED V.R.100K OHM(B).T.BAL
T102	614 226 7936	TRANS.OSC.PLL
TP101	614 227 6839	TERMINAL.CHECKER CHIP.RF
TP102	614 227 6839	TERMINAL.CHECKER CHIP.FE
TP103	614 227 6839	TERMINAL.CHECKER CHIP.TE
TP104	614 227 6839	TERMINAL.CHECKER CHIP.GED
TP105	614 227 6839	TERMINAL.CHECKER CHIP.PLL
X101	614 228 9426	RESONATOR.17.28MHZ

PARTS LIST (CD)

CD MAIN P.C. BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
73	614 231 9703	ASSY.PCB.SYSTEM
	614 121 6829	HEAT SINK,FOR IC151
OR	614 121 5891	HEAT SINK,FOR IC151
C1606	403 043 3104	ELECT 2200U M 16V
C1607	403 043 3104	ELECT 2200U M 16V
CN140	614 227 2985	SOCKET,15P.TO AMP.UNIT
CN141	614 225 3564	PLUG,20P.TO SERVO-S.P PCB
CN142	614 227 7782	SOCKET,24P.TO SERVO-S.P PCB
CN143	614 017 2621	PLUG,11P.TO FRONT PCB
CN170	614 226 8735	CORD,24P.CN105-CN142
CN171	614 227 8642	ASSY.CONNECTOR-S,11P.CN143-CN130
D151	407 050 2204	ZENER DIODE 6ZA30Y
D153	407 050 5502	ZENER DIODE 6ZA5.6Y
D154	407 004 9105	DIODE DSF10C
OR	407 012 3300	DIODE 1SR35-200A
D155	△407 005 2006	DIODE DS135D-KB1
OR	△408 007 9307	DIODE 1SR35-200A-HP
D156	△407 005 2006	DIODE DS135D-KB1
OR	△408 007 9307	DIODE 1SR35-200A-HP
D157	△407 005 2006	DIODE DS135D-KB1
OR	△408 007 9307	DIODE 1SR35-200A-HP
D158	△407 005 2006	DIODE DS135D-KB1
OR	△408 007 9307	DIODE 1SR35-200A-HP

REF.NO.	PART NO.	DESCRIPTION
D159	407 050 4802	ZENER DIODE 6ZA5.1Y
D161	407 005 4505	DIODE DS442X
D162	407 005 4505	DIODE DS442X
IC151	△409 189 4203	IC M5278005
IC152	△409 224 2102	IC AN79N05
PT101	△614 232 0013	POWER TRANS
Q104	405 033 6805	TR 2SD1468S-S
Q105	405 033 6805	TR 2SD1468S-S
Q153	405 000 3400	TR DTC114TS
OR	405 035 1600	TR RN1211
Q154	405 000 3400	TR DTC114TS
OR	405 035 1600	TR RN1211
Q155	405 002 1305	TR 2SA1048-Y
OR	405 006 1806	TR 2SA933S-R
OR	405 006 1905	TR 2SA933S-S
Q156	△405 099 1004	TR 2SD592-S
OR	△405 099 7501	TR 2SD592-R
Q157	△405 099 0908	TR 2SB621-S
OR	△405 099 7303	TR 2SB621-R
Q158	405 082 4609	TR DTA123YS
Q159	405 082 4609	TR DTA123YS
R1651	402 046 9304	RESISTOR 270 J- 1/2W

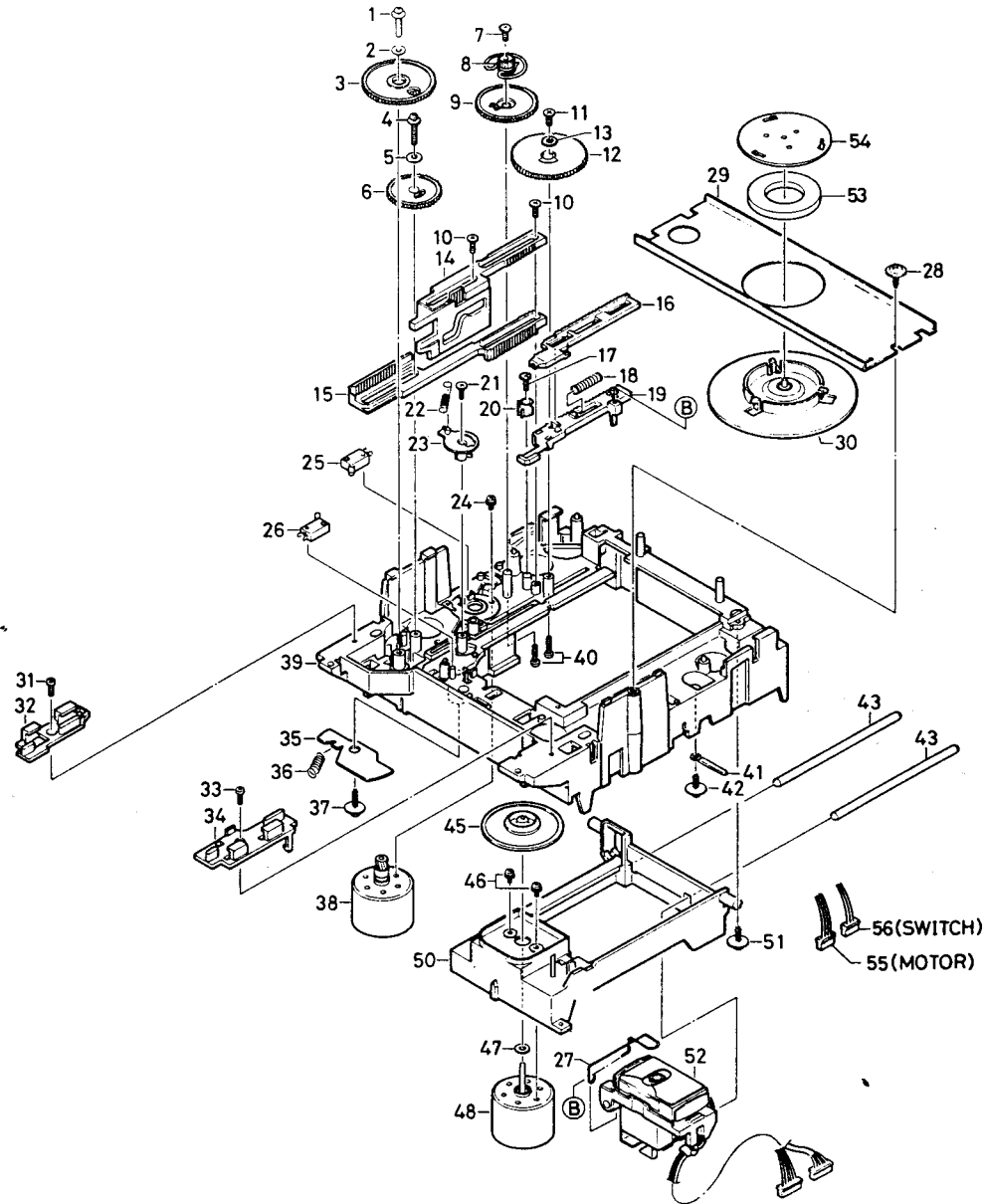
PARTS LIST (CD MECHANISM)

CD MECHANISM (PM-DAD EX2)

REF.NO.	PART NO.	DESCRIPTION
1	411 119 8908	SCR S-TPG PAN 2X14,GEAR 3 FIX
2	411 087 4704	WASHER V 2X6X0.4,GEAR FIX
3	614 224 2056	GEAR,TRAY MOVE
4	411 119 8908	SCR S-TPG PAN 2X4,GEAR 6 FIX
5	411 087 4704	WASHER V 2X6X0.4,GEAR FIX
6	614 224 2049	GEAR,TARY
7	412 031 2104	SPECIAL SCREW,GEAR 8 FIX
8	614 229 6066	ASSY.GEAR,CLUTCH INNER, FOR SERVICE
9	614 224 1974	GEAR,CLUTCH OUTER
10	412 031 2104	SPECIAL SCREW,SLIDE 14 FIX
11	412 031 2104	SPECIAL SCREW,GEAR 12 FIX
12	614 224 1998	GEAR,PICK SLED
13	412 014 2800	SPECIAL WASHER,PICK GEAR FIX
14	614 233 6311	SLIDE,BASE UP/DOWN
15	614 224 2094	SLIDE,TRAY
16	614 224 2018	GEAR,PICK RACK UPPER
17	412 031 2104	SPECIAL SCREW,GEAR 20 FIX
18	614 225 0884	SPRING,COMP,RACK BACK
19	614 224 2001	GEAR,PICK RACK LOWER
20	614 224 2032	GEAR,BASE/TRAY TIMING
21	412 031 2104	SPECIAL SCREW,GEAR 23 FIX
22	614 225 0860	SPRING,TENS,GEAR 23 TENSION
23	614 237 8304	GEAR,TIMING
24	411 044 7205	SCR PAN+SW 2X4,SLED MOTOR FIX
25	614 018 9223	SWITCH,LIMIT
26	614 018 9223	SWITCH,TRAY OPEN
27	614 229 4529	SPRING,WIRE,PICK BACK
28	411 020 9803	SCR S-TPG BRZ+FLG 3X6,CHUCK BRACKET FIX
29	614 226 7318	BRACKET-M,CHUCK
30	614 228 5848	ASSY,PULLEY,CHUCK
31	411 022 7807	SCR S-TPG PAN 2X6,TRAY BRACKET FIX

REF.NO.	PART NO.	DESCRIPTION
32	614 224 3176	BRACKET-M,TRAY GUIDE(L)
33	411 022 7807	SCR S-TPG PAN 2X6,TRAY BRACKET FIX
34	614 224 3183	BRACKET-M,TRAY GUIDE(R)
35	614 233 6304	LEVER,BASE
36	614 226 5536	SPRING,COMP,BASE LEVER MOVE
37	411 020 9902	SCR S-TPG BRZ+FLG 3X8,BASE LEVER FIX
38	614 225 4820	ASSY.MOTOR,LOADING-SLED
39	614 228 5855	CHASSIS,LOADING
40	412 031 2104	SPECIAL SCREW,BOSS REINFORCEMENT
41	614 129 9136	LUG,PICK UP LEAD FIX
42	411 021 5705	SCR S-TPG BIN 3X6,PICK LEAD FIX
43	614 145 9622	SHAFT,PICK RAIL
OR	614 227 6204	SHAFT,PICK RAIL
OR	614 230 0411	SHAFT,PICK RAIL
45	614 216 9841	TURN TABLE
46	411 044 7205	SCR PAN+SW 2X4,SPINDLE MOTOR FIX
47	412 032 0208	SPECIAL WASHER,ADHESIVE ESCAPE STOP
48	614 224 1882	COMMUTATE MOTOR,SPINDLE
50	614 224 1950	CHASSIS,BASE
51	411 020 9803	SCR S-TPG BRZ+FLG 3X6,BASE CHASSIS FIX
52	614 218 6855	PICKUP,LASER,SF-90
53	614 226 6878	MAGNET,CHUCK
54	614 226 6885	PLATE,MAGNET FIX
55	614 229 1795	ASSY.CONNECTOR-S,4P W/LEAD, SPINDLE-SLED MOTOR
56	614 229 1801	ASSY.CONNECTOR-S,3P W/LEAD, LIMIT-TRAY OPEN SWITCH SHEET
	614 229 6431	

EXPLODED VIEW (CD MECHANISM)



IC VOLTAGE TABLE (CD)

IC 101 LA9200NM

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	-0.3	fluc	0.2	0											0	3.8	0	4.0	-5.0	0
STOP	0		0.3	0	0	0	0	0	0	0	0	0	0	4.8	4.3	4.1	4.1	4.0	-5.0	0
Pin No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	4.9	2.5	2.6	2.4	0	2.4	4.16	2.5	2.4	fluc	-0.3	0.3	0.3	0.8	2.9	1.7		0.3	-5.0	5.0
STOP	4.9	3.6	1.5	1.6	0	2.4	0	2.4	2.4	0	0.6	0.6	0.6	0.2	-0.2	-0.1	0	4.2	4.9	5.0
Pin No.	41	42	43	44	45	46	47	48												
PLAY																				
STOP	0	0	-5.0	0	0	0	0	0												

IC 102 - 103 LC6517

Pin No.	1	2	3	4	5	6	7	8
PLAY	fluc	10	fluc	-10	fluc	fluc	fluc	fluc

IC 104 LC7860KA

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY		2.5	2.4	2.4	0	2.4	2.4	2.5	0	4.9	0.8	0	0	3.0	4.2	0	4.2	2.5	4.9	
STOP		2.5	2.4	2.4	0	1.4	1.2	2.5	0	4.9				3.0	4.2	4.2		2.5	4.9	0
Pin No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY									1.0	2.5	4.9	2.0	1.0	2.3	2.4		2.4	0	2.4	2.4
STOP	0	0	0	0	0	0	0	0	1.0	2.5	4.9	2.0	1.0	2.0	2.4		2.4	0	2.4	2.4
Pin No.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	3.6	4.5	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6	2.6	2.6	2.6	0	2.4	2.4	2.4	2.4
STOP	3.6	4.5	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6	1.4	1.4	1.4	0	3.6	3.6	3.6	1.6
Pin No.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	2.4				fluc		0.3	fluc	2.4	0.2	fluc	fluc	4.9	fluc	4.9	5	0		2.3	2.3
STOP	3.6				2.3		0.3		2.4	0			4.9		4.9	5	0	0	2.3	2.3

IC 106 LC97000P-288

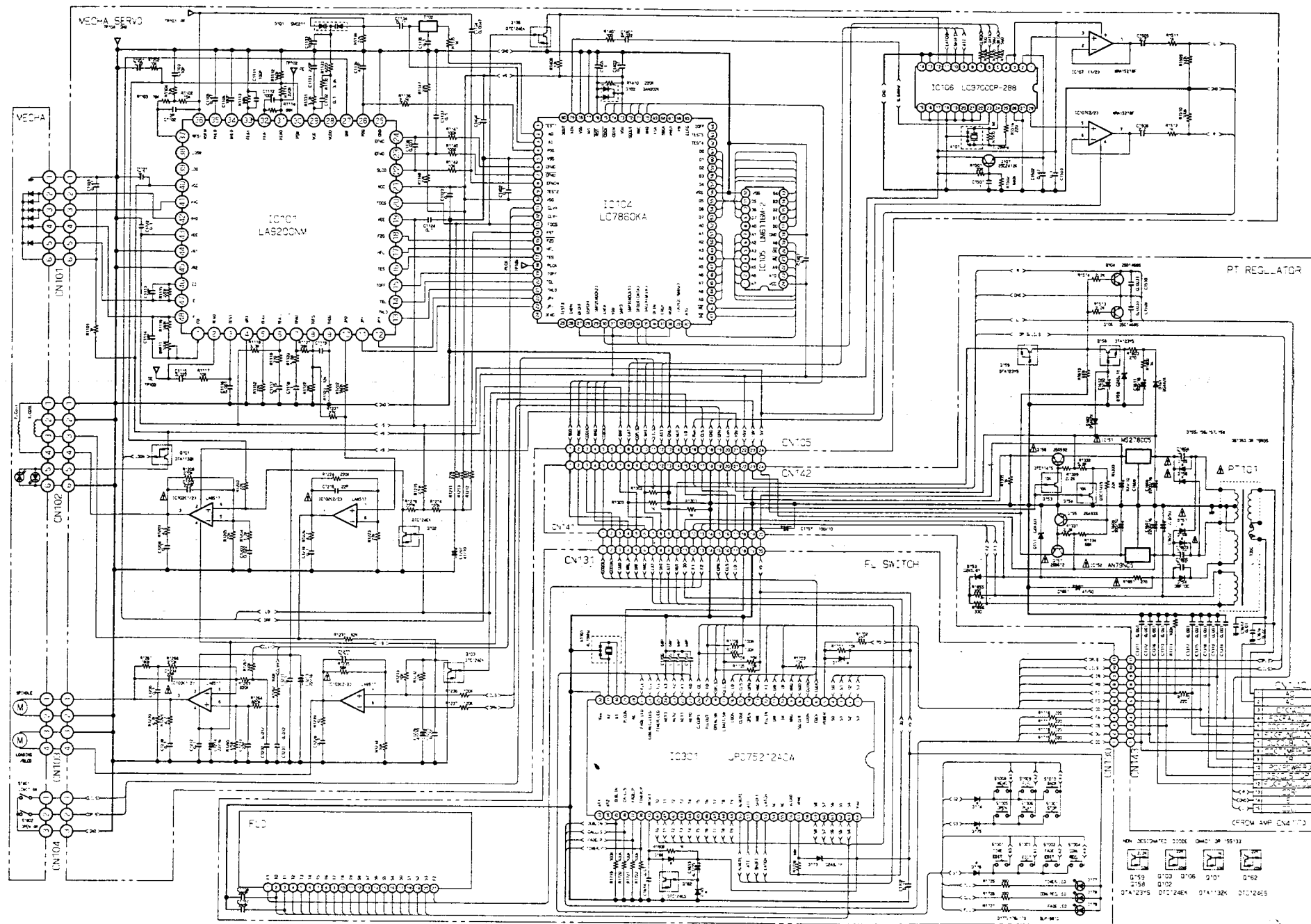
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	fluc	4	5	5	fluc	fluc	---	0	5	5	5	5	0	0	0	5	5	0	0	0
Pin No.	21	22	23	24	25	26	27	28												
PLAY	0	0	fluc	fluc	fluc	0	0	fluc												

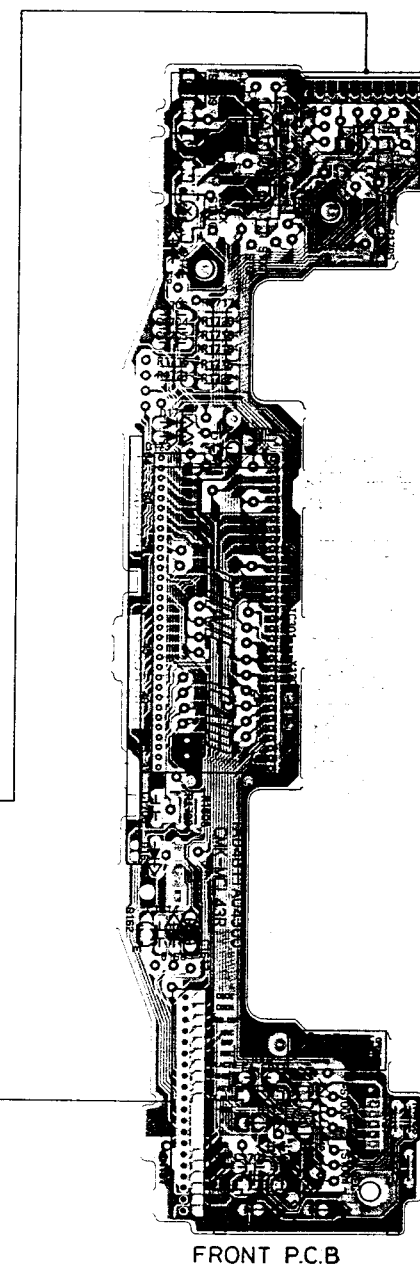
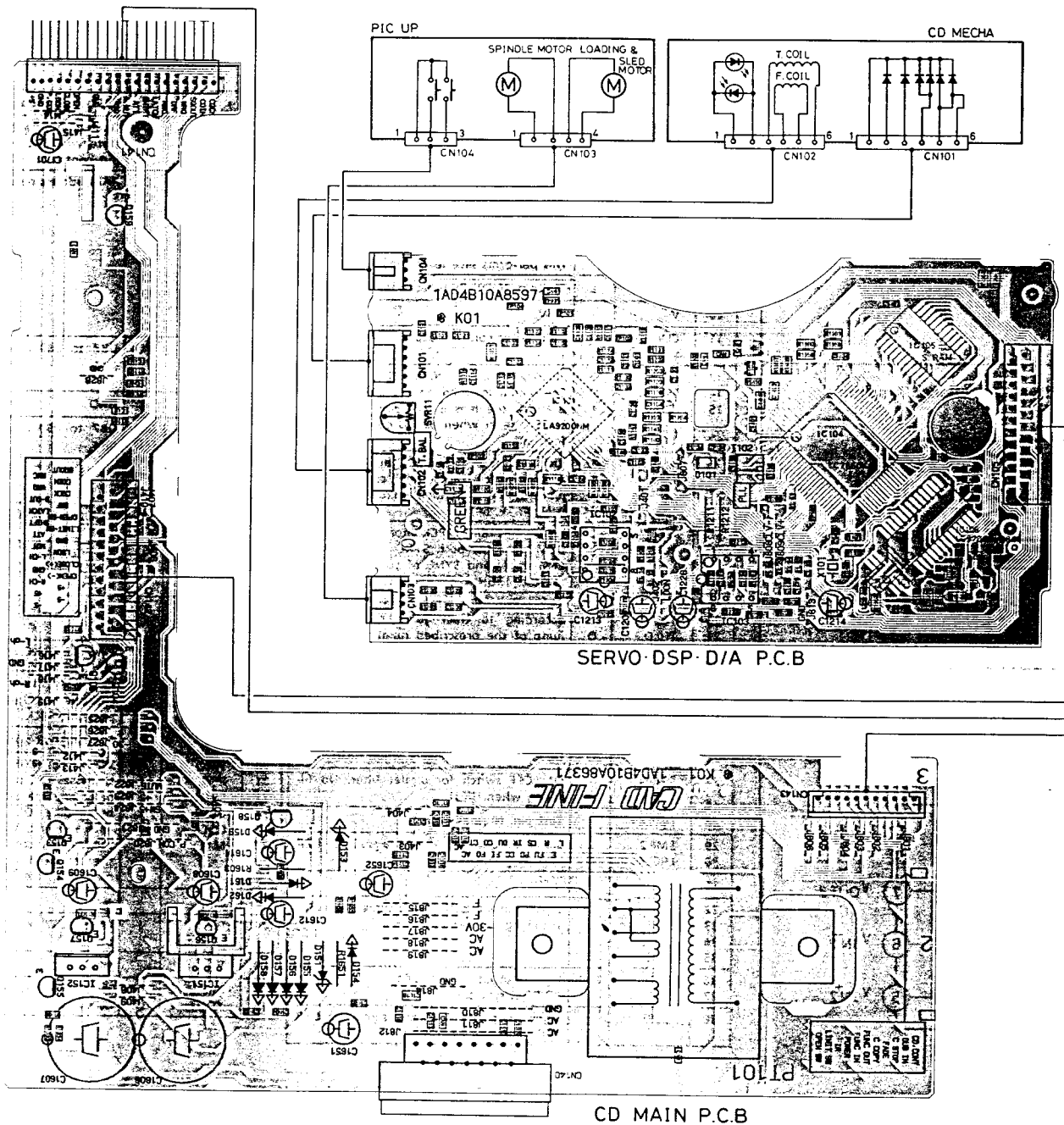
IC 107 XRA15218F

Pin No.	1	2	3	4	5	6	7	8
PLAY	fluc	fluc	fluc	-5	fluc	fluc	fluc	5

IC 301 μ PD75212ACW

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	fluc				5	5	0	0	0	5	4	0	0	5	5	0	5	0	5	fluc
STOP					1						0			opn	cls	5	cls	opn		
Pin No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	fluc	fluc	fluc	fluc	5	5	5		0	4.5	5.5	0	0	0					5	fluc
STOP						0	0		5											
Pin No.	41~49				51	52	53	54	55	56	57	58~63		64						
PLAY	fluc				0	5	5			-32	-4	fluc		5						
STOP					5							fluc		5						



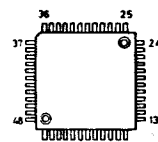
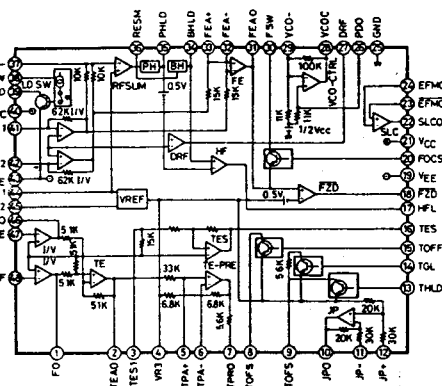


TRANSISTOR

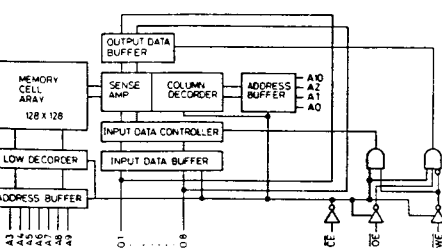
No.	Q101			Q102			Q103			Q104			Q105			Q106			Q107		
	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
AY	0	5	0	0	0	0	0	0	0	-5		0	-5		0	5	0	0	5	5	5
OP	0	0	5	5	0	0	5	0	0	1			1			0	5	0			
No.	Q153			Q154			Q155			Q156			Q157			Q158					
	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E			
D	0	5	0	0	5	0	1	-5	0	6	5	5	-6	-5	-5	5	-5	5			
HER	5	0	0	5	0	0	-1	0	0	0	5	0	0	-5	0	5	5	5			
No.	Q159			Q162																	
	B	C	E	B	C	E															
AY	0	-5	0	0	5	0															
OP	0	5	0	0	5	0															

BLOCK DIAGRAM (CD)

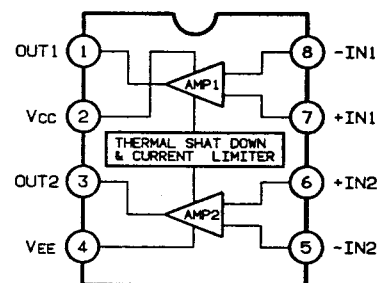
01 LA9200NM (RF-Amplifier · SERVO)



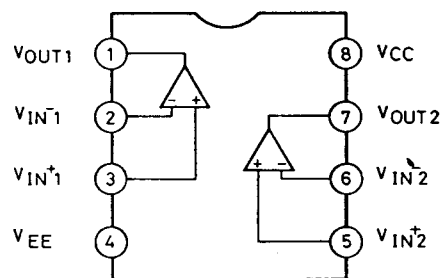
05 UM6116M-2 (2x8 16 CMOS SRAM)



IC 102 - 103 LA6517 (Dual Operational Amplifier)



IC 107 XRA15218F (Dual Operational Amplifier)



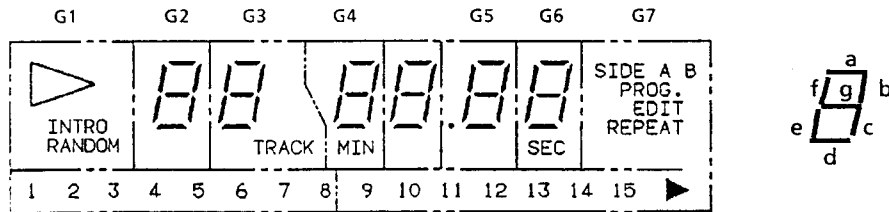
IC BLOCK DIAGRAM (CD)

IC104 LC7860KA (Digital Signal Processor)

No.	PIN NAME	I/O	FUNCTION
1	TEST 1	I	Test pin. Normally not connected.
2	AO	O	VCO is generated by connecting resonance circuit between AI and AO (8.6436MHz). PDO is phase output with EFM signal, and is set to increase frequency when "+".
3	AI	I	
4	PDO	O	
5	V _{SS}	-	GND
6	EFMO	O	1 to 2V _{PP} HF signal is input to EFMIN.
7	EFMO	O	Output from EFMO and EFMO passes through amplitude limiter and reverse phase EFM signal is obtained from both. This performs slice level control.
8	EFMIN	I	
9	TEST 2	I	Test pin. Normally not connected.
10	V _{DD}	-	+5V
11	CLV +	O	Disk motor control output.
12	VCO -	O	
13	FOCS	O	Focus servo is off when FOCS is HIGH. The lens is lowered by FST and then FST is HIGH, the lens is gradually pulled up. FOCS is reset when FZD is generated. For focus-in.
14	FST	O	
15	FZD	I	
16	HFL	I	Kick pulses, JP+ and JP-, are generated according to track jump command. A jump of the prescribed number of tracks is (1, 4, 16, 64).
17	TES	I	
18	FSEQ / PCK	O	When 4.3218MHz PCK monitor terminal / DEMO is HIGH both SYNC detected from EFM signal and SYNC of counter are the same at HIGH.
19	TOFF	O	Kick pulses, JP+ and JP-, are generated according to track jump command. A jump of the prescribed number of tracks is (1, 4, 16, 64).
20	TGL	O	
21	THLD	O	
22	JP +	O	
23	JP -	O	
24	DEMO	I	Set and sound output adjustment pin function.
25	TEST 3	I	Test pin. Normally not connected.
26	EMPH	O	De-emphasis is necessary when HIGH.
27	DFOFF	I	ON / OFF switch for digital filter. No filtering when HIGH.
28	DSPOFF	I	Test pin. Normally LOW.
29	SMP 2	O	Signal output to DAC and signal for L/R switching and sample hold.
30	LRCLK	O	
31	V _{DD}	-	+5V
32	SMP 3	O	Signal output to DAC and signal for L/R switching and sample hold.
33	SMP 1	O	
34	DFOUT	O	
35	DACLK	O	
36	DFIN	I/O	Signal output for CD-ROM. CD-ROM sync signal.
37	LRSY	O	
38	MSBF	I	Signal output to DAC and signal for L/R switching and sample hold.
39	CK 2	O	2.1609MHz
40	AD10	O	RAM address output.
41	OE	O	Output state when WE = L and input state when WE = H. OE is for input/output control.
42	WE	O	
43	AD09	O	RAM address output.
44	AD08	O	
45	AD07	O	
46	AD06	O	
47	AD05	O	
48	AD04	O	
49	AD03	O	
50	AD02	O	
51	AD01	O	
52	AD00	O	
53	DB7	I/O	DB7 to DB0 : Connected to RAM data pins.
54	DB6	I/O	
55	DB5	I/O	
56	V _{SS}	-	GND
57	DB4	I/O	DB7 to DB0 : Connected to RAM data pins.
58	DB3	I/O	
59	DB2	I/O	
60	DB1	I/O	
61	DB0	I/O	
62	TEST 4	I	Test pin. Normally not connected.
63	TEST 5	I	
64	IOFF	I	For CD ROM. HIGH time interpolation and holding of previous value not performed.
65	EFLG	O	C1 / C2 1-level and 2-level error correction.
66	PW	O	PWSY is SYNC combining main and sub and change from HIGH to LOW is taken externally. The P, Q, R, S, T, U, V, and W subcodes are read by sending 8 clock pulses to SBCK.
67	PWSY	O	
68	SBCK	I	
69	FSX	O	7.35kHz sync signal output.
70	WRQ	O	WRQ goes HIGH when data of subcode Q passes CRC check. This is taken externally and the data from SQOUT is read by sending CQCK. When data is required with LSB first, M/L is driven LOW. After the micro-processor sets RWC to HIGH, the command is given by output synchronized with the CQCK command data.
71	RWC	I	
72	SQOUT	O	
74	COIN	I	
75	CQCK	I	
77	M/L	I	
73	V _{DD}	-	+5V
76	RES	I	Goes LOW once when power is turned on.
78	V _{SS}	-	GND
79	XIN	I	Pin for connection to 8.6436MHz crystal oscillator.
80	XOUT	O	

IC BLOCK DIAGRAM (CD)

FLD (CD Fluorescent Display)



Segment Map

	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10
S1		a	a	a	a	a	a	SIDE	1	9
S2	INTRO	b	b	b	b	b	b	A	2	10
S3	RANDOM	f	f	f	f	f	f	B	3	11
S4		g	g	g	g	g	g	PROG.	4	12
S5		e	e	e	e	e	e	EDIT	5	13
S6		e	e	e	e	e	e	REPEAT	6	14
S7		d	d	d	d	d	d		7	15
S8			TRACK	-	MIN		SEC		8	

Pin Assignment

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Segment Name	F1	F1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	G8	G7	G6	G5	G4	G3
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	F1	F1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	G8	G7	G6	G5	G4	G3

IC106 LC97000P-288 (D/A converter)

No.	Symbol	I/O	Function description	No.	Symbol	I/O	Function description
1	L-CH	O	DAC CH-1 output pin	14	EMPH2	I	De-emphasis set pin
2	VRH	R	Reference voltage "H" input pin	15	EMPH1	I	De-emphasis set pin
3	AVDD	P	Analog system power supply pin	16	D/N	I	Normal/double speed switch pin
4	DVDD	P	Digital system power supply pin	17	SOC2	I	Input source select pin
5	BCLK	I	Bit CLOCK pin	18	SOC1	I	Input source select pin
6	DATA	I	Digital audio data input pin Input in bit serial from MSB	19	MODE	I	Operation mode set pin
7	LRCK	I	LR CLOCK input pin LRCK = "H" CH1 LRCK = "L" CH2	20	TEST	I	Test pin (normally "L")
8	TEST	I	Test pin (normally "L")	21	TEST	I	Test pin (normally "L")
9	ATT	I	Attenuation data input pin Input in bit serial from LSB	22	DGND	P	Digital system GROUND pin
10	SHIFT	I	Attenuation data shift CLOCK input pin	23	CLKOUT	O	CLOCK output pin At 392Fs : 1/2 XOUT At 384Fs, 448Fs, 512Fs : 1/4 XOUT
11	LATCH	I	Attenuation data latch CLOCK input pin	24	XIN	I	Crystal oscillation input pin.
12	INITB	I	Initializing signal input pin (normally "H")	25	XOUT	O	Crystal oscillation output pin.
13	TEST	I	Test pin (normally "L")	26	AGND	P	Analog system GROUND pin.
				27	VRL	R	Reference voltage "L" input pin.
				28	R-CH	O	DAC CH-2 output pin

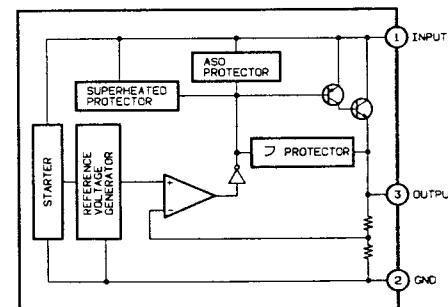
IC BLOCK DIAGRAM (CD)

IC301 μ PD75212ACW-256 (4 Bit Micro Processor)

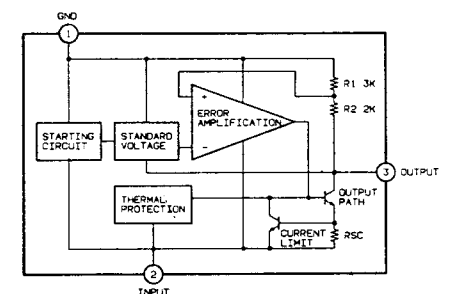
No	Pin name	Description
1	S3	FL Segment Signal Output & Key scan output
2	S2	FL Segment Signal Output & Key scan output
3	S1	FL Segment Signal Output & Key scan output
4	S0	FL Segment Signal Output & Key scan output
5	P CHK	Power detect (ON/OFF)
6	CQCK	LC7860KA interface (clock)
7	COIN	LC7860KA interface (SUBQ data)
8	SQOUT	LC7860KA interface (command data)
9	WRQ	LC7860KA interface (SUBQ trigger)
10	IR	Remote control signal input
11	DRF	Detected for RF signal (ON/OFF)
12	FUNCT	Function input (CD Time = LOW)
13	RWC	LC7860KA interface (data latch)
14	OPEN	Tray drive motor (SLED motor) control
15	CLOSE	Tray drive motor (SLED motor) control
16	LOON	LASER ON/OFF OUTPUT
17	LIMIT SW	PICK Limit SW input (ON/OFF)
18	OPEN SW	Open SW input (ON/OFF)
19	AF OUT	Auto function signal output (for DECK and AMP)
20	C COPY	Computer copy signal output (for DECK) High
21	KEY0	KEY input
22	KEY1	KEY input
23	KEY2	KEY input
24	KEY3	KEY input
25	TIME LED	Time edit LED display (Disp. ON/OFF)
26	DUB LED	Dubbing LED display (Disp. ON/OFF)
27	FADE LED	FADE LED Lighting (Disp. ON/OFF)
28	PD PORT	Not used
29	P CON	Power control (PW ON/OFF)
30	X1	Clock generator input (4.19MHz)
31	X2	Clock generator output (19MHz)
32	Vss	GND
33	XT1	Not used (GND)

No	Pin name	Description
34	XT2	Not used (Open)
35	DUB IN	Dubbing input (from DECK)
36	C STOP	Call Stop Signal input
37	CD FADE	Timer play signal input (from TUNER)
38	CD CONT	Timer play signal input (from TUNER)
39	RESET	Reset input
40	T0	FL Digit Signal Output
41	T1	FL Digit Signal Output
42	T2	FL Digit Signal Output
43	T3	FL Digit Signal Output
44	T4	FL Digit Signal Output
45	T5	FL Digit Signal Output
46	T6	FL Digit Signal Output
47	T7	FL Digit Signal Output
48	T8	FL Digit Signal Output
49	T9	FL Digit Signal Output
50	LATCH	DAC Control Output (Latch)
51	SHIFT	DAC Control Output (Clock)
52	ATT	DAC Control Output (Data)
53	A MUTE	Analog Mute Signal
54	S11	
55	S10	
56	VLOAD	Power source for pull down of FL display terminal
57	VPRE	Power source for output buffer of FL display terminal
58	S9	FL Segment Signal & Key Scan output
59	S8	FL Segment Signal & Key Scan output
60	S7	FL Segment Signal & Key Scan output
61	S6	FL Segment Signal & Key Scan output
62	S5	FL Segment Signal & Key Scan output
63	S4	FL Segment Signal & Key Scan output
64	VDD	Power (+5V)

IC151 M5278D05 (3 Terminal Voltage Regulator)



IC152 AN79N05 (3 Terminal Voltage Regulator)



TAPE DECK UNIT (DC-T44DK)

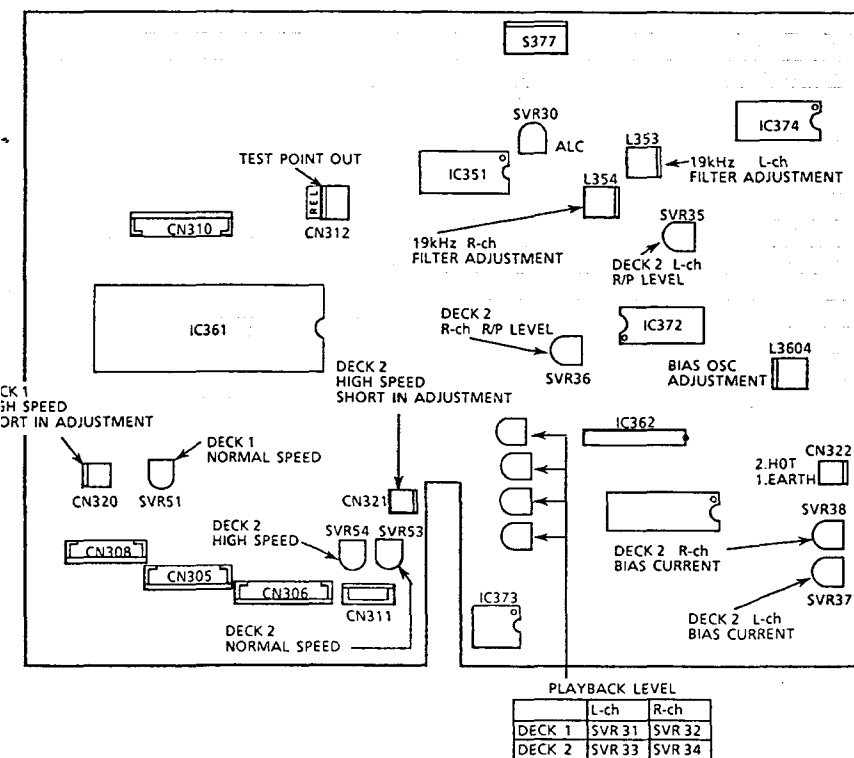
ADJUSTMENT (DECK)

Initial Adjustment

ITEM	TEST TAPE	INPUT	DOLBY	OUTPUT	ADJUST POINT	REMARKS
Head Azimuth	VTT738	---	---	TP OUT CN312	Azimuth Screw	Adjust screw so that 10kHz output become maximum.
Playback Level	TCC130	---	OFF	TP OUT CN312	SVR31,32 (DECK 1) SVR33,34 (DECK 2)	Adjust SVR so that TAPE OUT output become 0.775V.
OSC	AC224	107kHz	OFF	TP OSC CN322	L3604	Beat Cancel SW1 : Adjust 107 kHz Beat Cancel SW2 : Confirm 103 ± 2kHz
19kHz Filter	AC224	19kHz ± 10Hz (-5dB)	OFF	TP OUT CN312	L353 (L-ch) L354 (R-ch)	Set frequency 400Hz output to 0dB. Adjust SVR so that 19kHz output become +30dB.
1kHz/Play frequency	AC224	1kHz (-25dB) 10kHz (-25dB)	ON	TP OUT CN312	SVR37 (L-ch) SVR38 (R-ch)	Set frequency 1kHz output to 0dB. Adjust SVR so that 10kHz output become +1dB.
1kHz/Play Level	AC224	1kHz (-5dB)	OFF	TP OUT CN312	SVR35 (L-ch) SVR36 (R-ch)	Adjust to obtain same output of 1kHz and 10kHz.

1. Head azimuth : Be sure both channels (L and R) are the same level and phase. [Both mechanism (DECK 1 and DECK 2)]
2. During adjustment measurement Beat cancel SW is at 1 condition fundamentally, confirm R/P frequency characteristic dolby effect also by 2 condition.

Location



ADJUSTMENT & TORQUE (DECK)

3 Tape Speed Adjustment

Note : ①. Operate the Mechanism with the normal speed.

②. Begin from the high speed in Motor speed adjustment.

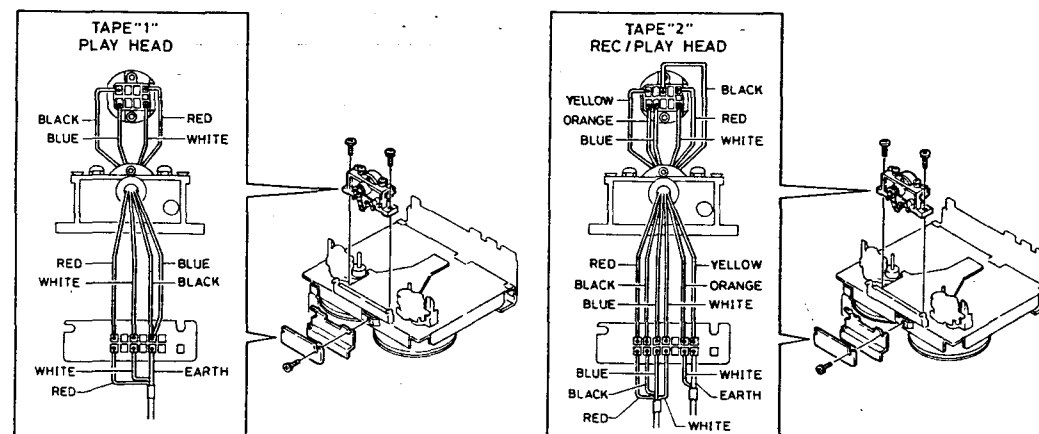
- 1) Set the test tape TCW-211 (or equivalent) to both mechanism (Deck 1 / Deck 2). Adjustment should be made at the ending portion (FWD Play) on the tape.
- 2) Play the mechanism in FWD Play.
- 3) Short the high speed test pin to the high speed portion. (by the clip.)
- 4) Confirm the indication of the tape speed counter in Deck 1.
Adjust the tape speed in Deck 2 so as to match in Deck 1. (It is not SVR: high speed in Deck 1.)
Confirm so that a frequency counter reading of high speed become 3000Hz ± 10% in Deck 1.
- 5) Adjust SVR54 so that a frequency counter reading become less 20 ± 5Hz in Deck 2 at the FWD Play and near tape end than in Deck 1.
Example - Deck 1 : 3000Hz → Deck 2 : 2980Hz ± 5Hz
- 6) Remove the short by the clip, open the high speed test pin. (Normal speed)
- 7) Stop the mechanism drive.
- 8) Set the test tape MTT-111 (or equivalent) to both mechanism (Deck 1 / Deck 2).
Adjustment should be made at the ending portion (FWD Play) on the tape.
- 9) Play the Mechanism (FWD Play).
- 10) Adjust SVR51 so that a frequency counter reading become 3010Hz ± 5Hz in Deck 1 at the FWD Play and near the tape end.
- 11) Adjust SVR53 so that a frequency counter reading become 2990Hz ± 5Hz in Deck 2 at the FWD Play and near the tape end.
- 12) Stop the mechanism drive.

4 Checking the mechanism torques

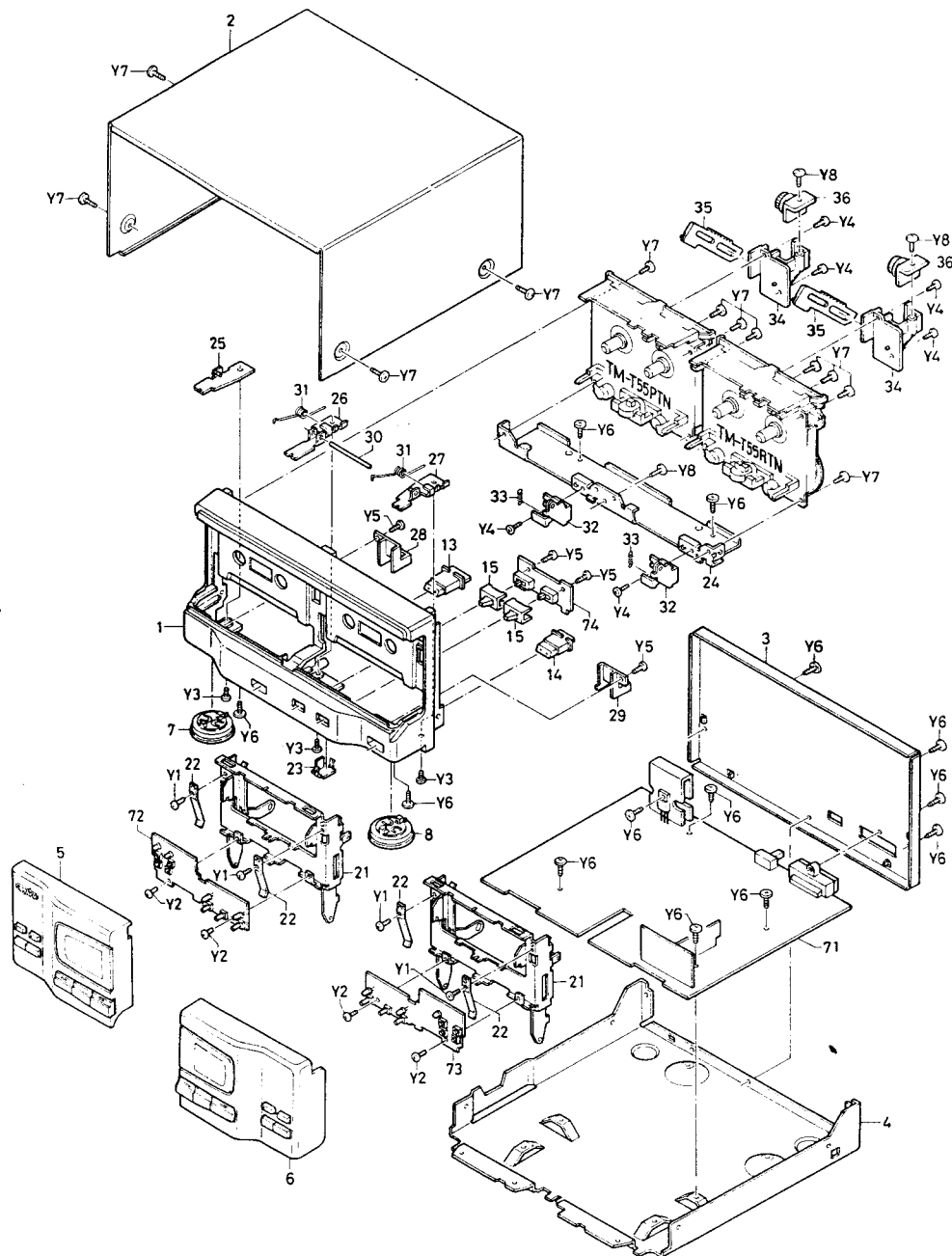
Note : Clean the head, capstan and pinch roller before making any measurement.

ITEM	TAKE-UP TORQUE	BACK TENSION	TAPE TENSION
Test cassette	PLAY (FWD) : TW2111A	PLAY (FWD) : TW2111A	Driving power cassette :
	PLAY (REW) : TW2121A	PLAY (REW) : TW2121A	PLAY (FWD) : TW-2412
	F.FWD / REW : TW2231		PLAY (REW) : TW2422
PLAY	30~60gr.cm	2.0~5.0gr.cm	more than 80gr
F.FWD	55~140gr.cm	-----	-----
REW	55~140gr.cm	-----	-----

5 HEAD REPLACEMENT



PARTS LIST (TAPE DECK)



EXPLODED VIEW (TAPE DECK)

CABINET & CHASSIS (DC-T44DK)

REF. NO.	PART NO.	DESCRIPTION
1	614 227 2671	ASSY. PANEL, FRONT
2	614 229 0965	ASSY. CABINET
3	614 240 9121	PANEL, REAR
4	614 227 5665	ASSY. CABINET, BOTTOM
5	614 227 1025	ASSY. COVER, DECK 1
6	614 227 1032	ASSY. COVER, DECK 2
7	614 227 1131	ASSY. FOOT, FRONT-L
8	614 227 1148	ASSY. FOOT, FRONT-R
13	614 227 1704	BUTTON, EJECT, DECK 1
14	614 227 1711	BUTTON, EJECT, DECK 2
15	614 227 1575	KNOB, SLIDE, MODE-DOLBY
21	614 227 1049	ASSY. LID, CASSETTE
22	614 227 2114	SPRING, PLATE, TAPE COMP
23	614 227 1940	STOPPER, SHAFT
24	614 227 1797	BRACKET-M, MECHA
25	614 227 5702	ASSY. BRACKET-M, LID (LEFT)
26	614 227 1803	BRACKET-M, LID (CENTER)
27	614 227 5719	ASSY. BRACKET-M, LID (RIGHT)
28	614 227 1919	MOUNT-M, LEAD WIRE DECK1
29	614 227 1926	MOUNT-M, LEAD WIRE DECK2
30	614 227 1964	SHAFT, LID (CENTER)
31	614 227 2145	SPRING, WIRE, LID OPEN
32	614 227 5726	ASSY. LEVER, EJECT
33	614 227 2084	SPRING, TENS, EJECT
34	614 227 4231	MOUNT-M, DUMPER
35	614 227 2077	SLIDE, DUMPER
36	614 069 0378	GEAR ASSY, DUMPER
	614 125 6443	CUSHION, WIRE FIX
	614 129 4971	FIXER, LEAD RETAINER

FIXING PARTS (DC-T44DK)

REF. NO.	PART NO.	DESCRIPTION
Y1	411 129 0206	SCR S-TPG PAN 2X3
Y2	411 028 5609	SCR S-TPG PAN 2.6X4
Y3	411 028 6200	SCR S-TPG PAN 2.6X6
Y4	411 021 2704	SCR S-TPG BIN 2.6X6
Y5	411 021 1806	SCR S-TPG BIN 2.6X10
Y6	411 021 6405	SCR S-TPG BIN 3X8
Y7	411 021 6603	SCR S-TPG BIN 3X8
Y8	411 021 3503	SCR S-TPG BIN 3X10
Y9	411 021 6603	SCR S-TPG BIN 3X8

ELECTRICAL PARTS (DC-T44DK)

REF. NO.	PART NO.	DESCRIPTION
CN351	614 227 0868	ASSY. CONNECTOR-S, 3P, P HEAD LEAD
CN352	614 227 0875	ASSY. CONNECTOR-S, 5P, R/P HEAD LEAD
CN353	614 227 0882	ASSY. CONNECTOR-S, 2P, E HEAD LEAD
CN358	614 229 4543	ASSY. CONNECTOR-S, 9P, DECK 1 MECHA LEAD
CN359	614 227 0899	ASSY. CONNECTOR-S, 4P, DECK 1 MOTOR LEAD
CN360	614 229 4550	ASSY. CONNECTOR-S, 12P, DECK 2 MECHA LEAD
CN361	614 227 0905	ASSY. CONNECTOR-S, 4P, DECK 2 MOTOR LEAD

DECK MAIN P.C. BOARD ASSY

REF. NO.	PART NO.	DESCRIPTION
71	614 237 0056	ASSY. PCB, DECK MAIN
C3613	403 080 6106	POLYPRO 0.01U J 100V
C3901	403 038 4505	ELECT 1000U M 6.3V
C3999	403 200 0304	ELECT 3300U M 35V

REF. NO.	PART NO.	DESCRIPTION
CN301	614 017 2546	PLUG, 3P, FOR P HEAD
CN302	614 017 2560	PLUG, 5P, FOR R/P HEAD
CN303	614 017 2539	PLUG, 2P, FOR E HEAD
CN304	614 227 2978	SOCKET, 15P, TO AMP. UNIT
CN305	614 017 2614	PLUG, 10P, FOR DECK 1 MODE SW
CN306	614 017 2621	PLUG, 11P, FOR DECK 2 MODE SW
CN307	614 017 2553	PLUG, 4P, FOR MODE SW
CN308	614 017 2607	PLUG, 9P, FOR DECK 1 MECHA
CN309	614 017 2119	PLUG, 4P, FOR DECK 1 MOTOR
CN310	614 017 2638	PLUG, 12P, FOR DECK 2 MECHA
CN311	614 017 2119	PLUG, 4P, FOR DECK 2 MOTOR
CN312	614 016 3858	PLUG, 3P, FOR SIGNAL TEST POINT
CN320	614 016 4084	PLUG, 2P, FOR HI SPEED TEST POINT
CN321	614 016 4084	PLUG, 2P, FOR HI SPEED TEST POINT
CN322	614 016 4084	PLUG, 2P, FOR E HEAD TEST POINT
D300	407 053 5905	ZENER DIODE MTZ4.7C
D348	407 005 4505	DIODE 05442X
D349	407 012 4406	DIODE 1SS133
D351	407 005 4505	DIODE 05442X
D352	407 005 4505	DIODE 05442X
D353	407 005 4505	DIODE 05442X
D354	407 012 4406	DIODE 1SS133
D356	407 012 4406	DIODE 1SS133
D357	407 005 4505	DIODE 05442X
D361	407 012 4406	DIODE 1SS133
D362	407 012 4406	DIODE 1SS133
D363	407 012 4406	DIODE 1SS133
D364	407 005 4505	DIODE 05442X
D366	407 005 4505	DIODE 05442X
D367	407 005 4505	DIODE 05442X
D368	407 012 4406	DIODE 1SS133
D369	407 012 4406	DIODE 1SS133
D370	407 012 4406	DIODE 1SS133
D391	407 140 7201	DIODE DSR-10C-ETS
D392	407 140 7201	DIODE DSR-10C-ETS
D395	407 053 3901	ZENER DIODE MTZ16B
D396	407 053 7206	ZENER DIODE MTZ6.2C
D397	407 012 4406	DIODE 1SS133
D398	407 053 6803	ZENER DIODE MTZ5.6C
D399	407 063 7807	ZENER DIODE MTZ13A
D3501	407 003 5009	DIODE DA203, FOR ALC
D3551	407 003 5009	DIODE DA203, FOR ALC
H5001	614 117 1760	SHIELD PLATE, FOR HEAD
H5002	614 203 7362	HEAT SINK, FOR MOTOR
H5004	614 229 2396	SHIELD, FOR NOISE
IC351	409 239 5204	IC CXA1100P, DOLBY
IC361	410 072 3401	IC LC66508B-4119, MICON
IC362	409 016 5502	IC LA2000, AMSS
IC363	409 241 5308	IC BA3126N, HEAD SWITCH
IC371	409 121 8702	IC LA3246, PLAY AMP
IC372	409 241 4400	IC CXA1398P
ICP364	614 205 2891	IC PROTECTOR ICP-N15
ICP365	614 205 2891	IC PROTECTOR ICP-N15
ICP366	614 205 2921	IC PROTECTOR ICP-N38
L351	614 210 3722	INDUCTOR, FERITE
L352	614 210 3722	INDUCTOR, FERITE
L353	614 228 8139	FILTER, LC, MPX
L354	614 228 8139	FILTER, LC, MPX
L364	614 212 0798	TRANS, OSC
L371	614 210 3722	INDUCTOR, FERITE
L372	614 029 3166	MX COIL
L381	614 210 3722	INDUCTOR, FERITE
L382	614 029 3166	MX COIL
L391	614 028 4256	FILTER
Q301	405 004 5103	TR 2SA608-G-SPA
Q302	405 007 6701	TR 2SB598-F-NP
Q303	405 007 6701	TR 2SB598-F-NP
Q304	405 007 6701	TR 2SB598-F-NP

LIST (TAPE DECK)

PART NO.	DESCRIPTION
405 004 5103	TR 2SA608-G-SPA
405 007 6701	TR 2SB598-F-NP
405 007 6701	TR 2SB598-F-NP
405 007 6701	TR 2SB598-F-NP
405 000 3400	TR DTC114TS
405 018 0200	TR 2SC3331-U
405 018 0200	TR 2SC3331-U
405 000 3806	TR DTC114YS
405 000 3400	TR DTC114TS
405 075 8300	TR DTC124TS
405 000 3400	TR DTC114TS
405 000 0508	TR DTA114ES
405 000 3400	TR DTC114TS
405 000 3400	TR DTC114TS
405 000 3400	TR DTC114TS
405 000 3400	TR DTC114TS
405 000 3806	TR DTC114YS
405 000 3400	TR DTC114TS
405 000 3400	TR DTC114TS
405 000 3400	TR DTC114TS
405 000 3806	TR DTC114YS
405 004 5103	TR 2SA608-G-SPA
405 017 9709	TR 2SC3330-U
405 017 9709	TR 2SC3330-U
405 017 9709	TR 2SC3330-U
405 017 9709	TR 2SC3330-U
405 000 0508	TR DTA114ES
405 018 5403	TR 2SC349S
405 000 0508	TR DTA114ES
405 000 0508	TR DTA114ES
405 025 0200	TR 2SD734-B
405 000 3806	TR DTC114YS
405 000 3400	TR DTC114TS
405 000 3400	TR DTC114TS
405 000 3400	TR DTC114TS
405 000 3400	TR DTC114TS
405 000 3400	TR DTC114TS
405 075 8300	TR DTC124TS
405 075 8300	TR DTC124TS
405 033 6805	TR 2SD1468S-S
405 075 8300	TR DTC124TS
405 075 8300	TR DTC124TS
405 033 6805	TR 2SD1468S-S
405 035 7107	TR 2SD1913-R
405 035 7107	TR 2SD1913-R
405 035 7107	TR 2SD1913-R
405 023 5306	TR 2SD400-F
405 023 5306	TR 2SD400-F
405 017 9709	TR 2SC3330-U
405 017 9709	TR 2SC3330-U
405 000 3400	TR DTC114TS
405 000 3806	TR DTC114YS
402 052 1101	FUSIBLE RES 3.3 J-1/4W
402 052 1101	FUSIBLE RES 3.3 J-1/4W
401 068 6209	OXIDE-MT 5.6 JA 2W
401 068 6209	OXIDE-MT 5.6 JA 2W
402 051 7708	FUSIBLE RES 47 J-1/4W
402 051 7708	FUSIBLE RES 47 J-1/4W
401 060 4104	OXIDE-MT 2.2K JA 1W
401 058 2501	OXIDE-MT 100 JA 1W
614 217 1356	RESISTOR 10K X10
614 217 1387	RESISTOR 10K X13
614 012 4316	SWITCH.FOR BEAT CANCEL
614 226 3891	POTENTIOMETER.10K(B).ALC ADJ
614 226 3891	POTENTIOMETER.10K(B).PLAY GAIN
614 226 3891	ADJ.DECK 1(L-CH)

REF.NO.	PART NO.	DESCRIPTION
SVR32	614 226 3891	POTENTIOMETER.10K(B).PLAY GAIN
SVR33	614 226 3891	POTENTIOMETER.10K(B).PLAY GAIN
SVR34	614 226 3891	POTENTIOMETER.10K(B).PLAY GAIN
SVR35	614 226 3891	POTENTIOMETER.10K(B).REC GAIN
SVR36	614 226 3891	POTENTIOMETER.10K(B).REC GAIN
SVR37	614 226 3952	POTENTIOMETER.100K(B).BIAS ADJ.
SVR38	614 226 3952	POTENTIOMETER.100K(B).BIAS ADJ.
SVR51	614 226 3853	POTENTIOMETER.2.2K(B).TAPE SPEED
SVR53	614 226 3853	POTENTIOMETER.2.2K(B).TAPE SPEED
SVR54	614 226 3853	POTENTIOMETER.2.2K(B).TAPE SPEED
X361	614 215 5523	RESONATOR.CERAMIC.3P.4.19MHZ

TAPE DECK 1 OPERATION SWITCH P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
72	614 237 0063	ASSY.PCB.MECHA SW FOR DECK 1
CN355	614 227 0844	ASSY.CONNECTOR-S.10P.MODE SW FOR DECK 1
D331	408 014 3701	LED SLZ-338A-04-AB-T1.REV
D332	408 014 3701	LED SLZ-338A-04-AB-T1.FWD
D333	407 109 4104	LED SLP-181C-51-B.HI DUB.
D334	407 109 4104	LED SLP-181C-51-B.NOR DUB.
D381	407 012 4406	DIODE 1SS133
D382	407 012 4406	DIODE 1SS133
D383	407 012 4406	DIODE 1SS133
D384	407 012 4406	DIODE 1SS133
D385	407 012 4406	DIODE 1SS133
D386	407 012 4406	DIODE 1SS133
D387	407 012 4406	DIODE 1SS133
D388	407 012 4406	DIODE 1SS133
D389	407 012 4406	DIODE 1SS133
D390	407 012 4406	DIODE 1SS133
S361	614 220 5594	SWITCH.TACT.REV
S362	614 220 5532	SWITCH.TACT.REV
S363	614 220 5532	SWITCH.TACT.STOP
S364	614 220 5532	SWITCH.TACT.FWD
S365	614 220 5594	SWITCH.TACT.FF
S366	614 220 5594	SWITCH.TACT.HI DUB.
S367	614 220 5594	SWITCH.TACT.NOR DUB.

TAPE DECK 2 OPERATION SWITCH P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
73	614 237 0070	ASSY.PCB.MECHA SW FOR DECK 2
CN356	614 227 0851	ASSY.CONNECTOR-S.11P.MODE SW FOR DECK 2
D335	408 014 3701	LED SLZ-338A-04-AB-T1.REV
D336	408 014 3701	LED SLZ-338A-04-AB-T1.FWD
D337	407 109 4104	LED SLP-181C-51-B.REC/PAUSE
D371	407 012 4406	DIODE 1SS133
D372	407 012 4406	DIODE 1SS133
D373	407 012 4406	DIODE 1SS133
D374	407 012 4406	DIODE 1SS133
D375	407 012 4406	DIODE 1SS133
D376	407 012 4406	DIODE 1SS133
S368	614 220 5594	SWITCH.TACT.REV

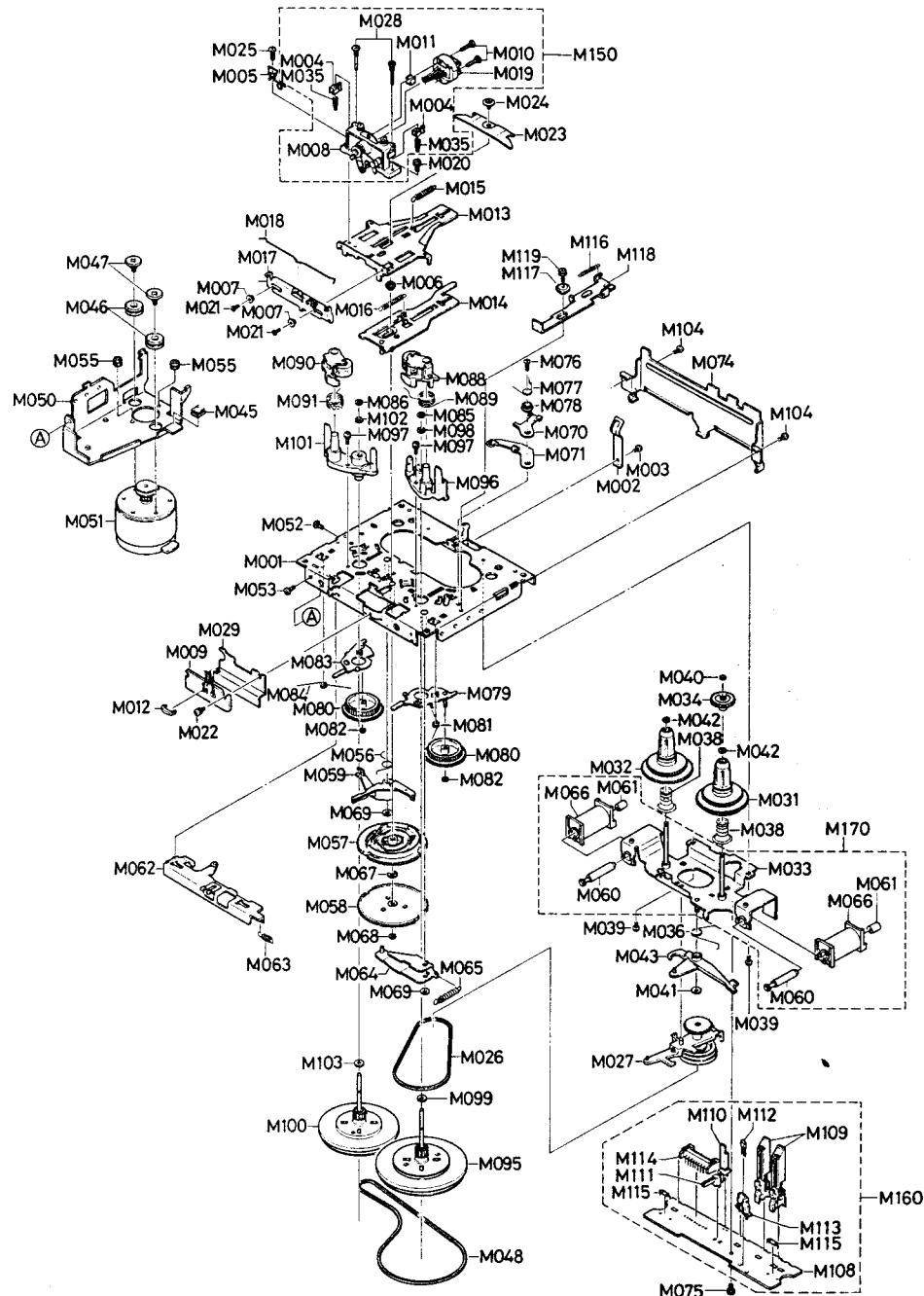
PARTS LIST (TAPE DECK)

REF.NO.	PART NO.	DESCRIPTION
S369	614 220 5532	SWITCH.TACT.REV
S370	614 220 5532	SWITCH.TACT.STOP
S371	614 220 5532	SWITCH.TACT.FWD
S372	614 220 5594	SWITCH.TACT.FF
S373	614 220 5594	SWITCH.TACT.REC/PAUSE
S374	614 220 5594	SWITCH.TACT.MUTE

DOLBY-MODE SWITCH P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
74	614 237 0650	ASSY.PCB.MODE DOLBY SW
CN357	614 230 8165	ASSY.CONNECTOR-S.4P.TO MAIN PCB
S375	614 227 2343	SWITCH.SLIDE.DOLBY
S376	614 227 2350	SWITCH.SLIDE.REV MODE

EXPLODED VIEW (TAPE MECHANISM "DECK 1")



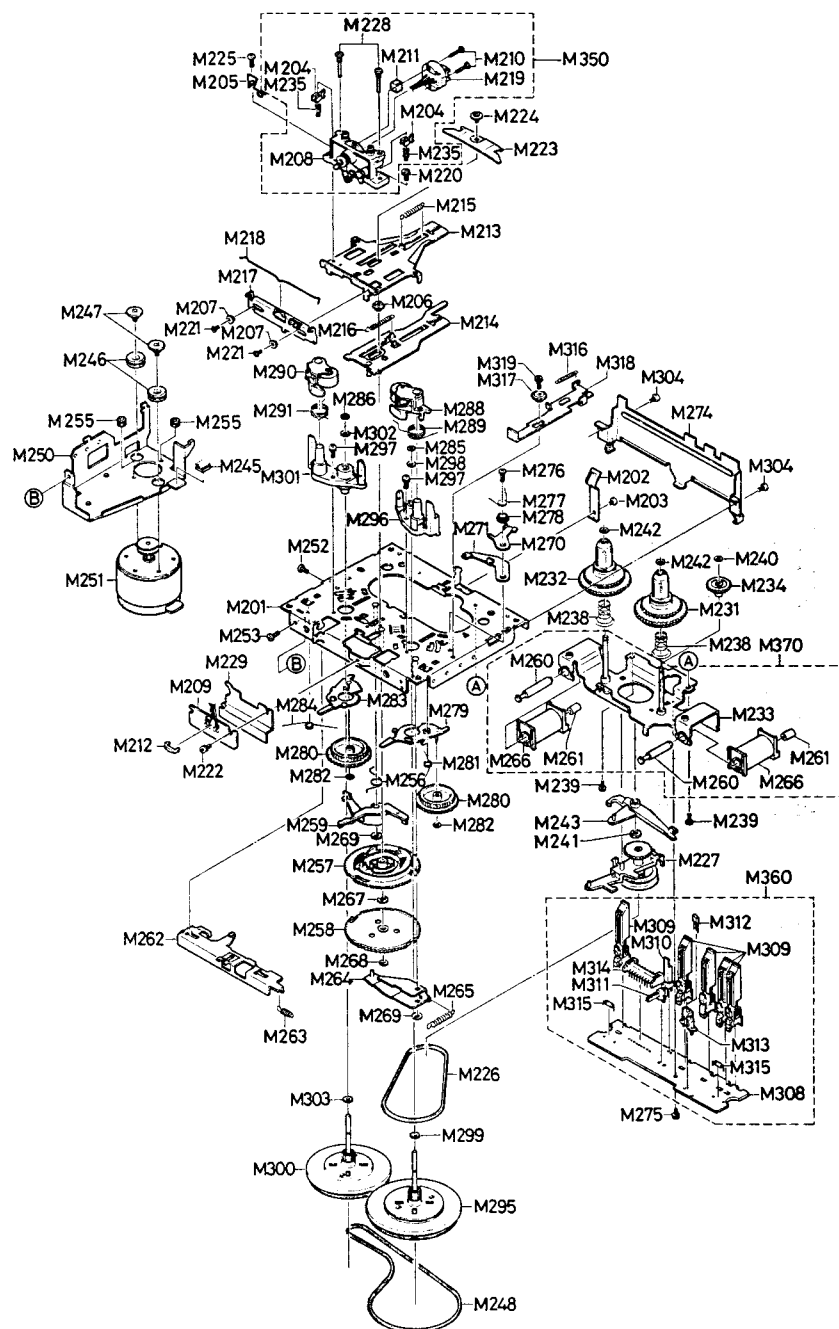
PARTS LIST (TAPE MECHANISM "DECK-1")

DECK-1 MECHANISM (TH-T55PTN)

REF. NO.	PART NO.	DESCRIPTION
M001	614 229 1832	ASSY. CHASSIS
M002	614 229 1405	PLATE, PACK SPRING
M003	412 027 2606	SPECIAL SCREW, C TAPP M2X3
M004	614 212 4451	GUIDE, TAPE
M005	614 229 1481	SPRING, WIRE, CLUMP (V)
M006	614 212 5991	COLLAR, PANEL
M007	614 206 3118	COLLAR, CHP LEVER
M008	614 229 1566	ASSY. BRACKET-E, HEAD BASE
M009	614 206 3408	PCB, RELAY BOARD
M010	412 041 6505	SPECIAL SCREW, HEAD COLLAR
M011	614 206 2937	SPACER, HEAD
M012	614 206 2975	FIXER, WIRE CLAMP
M013	614 206 3248	SLIDE, HEAD PANEL (A)
M014	614 206 2821	ASSY. SLIDE, HEAD PANEL (B)
M015	614 206 3286	SPRING, TENS, RC
M016	614 206 3293	SPRING, WIRE, PANEL
M017	614 206 3194	LEVER, CHP
M018	614 214 0970	SPRING, WIRE, PINCH ROLLER
M019	614 227 2169	HEAD, PLAY
M020	412 032 2707	SPECIAL SCREW, TAMS M2X5
M021	412 032 2806	SPECIAL SCREW, M17X3 (FOR CAMERA)
M022	412 032 2509	SPECIAL SCREW, S TAPP TAMS M2X5
M023	614 215 7428	SPRING, PLATE, PANEL
M024	412 032 3001	SPECIAL SCREW, CUPS TAPP M2X5
M025	412 032 4800	SPECIAL SCREW, BIND M2X5
M026	614 206 4849	BELT, FLAT, RF
M027	614 229 1849	ASSY. PULLEY, RF CLUTCH
M028	412 034 0909	SPECIAL SCREW, GUIDE
M029	614 229 1412	PLATE, SHIELD
M030	614 206 4399	ASSY. REEL, T(F)
M031	614 207 2158	ASSY. REEL, T(R)
M032	614 206 4382	ASSY. BRACKET-M, REEL BASE
M033	614 206 4658	GEAR, FF
M034	614 212 4529	SPRING, COMP, GUIDE
M035	614 206 5099	SPRING, WIRE, FR TRIGGER ARM
M036	614 206 3309	SPRING, COMP, B, T(R)
M037	412 026 2003	SPECIAL SCREW, C TAPPING M2X4
M038	412 013 4904	SPECIAL WASHER, P CUT 1.2X3X0.25
M039	412 013 7608	SPECIAL WASHER, P CUT 2.1X5X0.5
M040	412 032 3902	SPECIAL WASHER, HL CUT 1.4X3.2X0.4
M041	614 206 3149	LEVER, RF TRIGGER ARM
M042	614 206 2951	CUSHION, MAT
M043	614 206 2944	CUSHION, RUBBER, MOTOR
M044	412 032 4008	SPECIAL SCREW, MOTOR COLLAR
M045	614 229 1368	BELT, FLAT, MAIN
M046	614 229 1290	BRACKET-M, MOTOR
M047	614 229 1818	ASSY. MOTOR, E6530YD-2BH
M048	412 026 1402	SPECIAL SCREW, C TAPP M2X3
M049	412 043 3601	SPECIAL SCREW, CAMERA M2X3.5
M050	614 229 1320	CUSHION, RUBBER, MOTOR
M051	614 206 3347	SPRING, WIRE, M TRIGGER ARM
M052	614 206 3002	GEAR, M
M053	614 206 3019	GEAR, RF CAM
M054	614 206 3170	LEVER, M TRIGGER ARM
M055	614 206 2906	SHAFT, PLUNGER
M056	614 206 4627	HOLDER, PLUNGER
M057	614 229 1856	ASSY. SLIDE, CH SLIDE LEVER
M058	614 206 3279	SPRING, TENS, CH SLIDE LEVER
M059	614 206 2807	ASSY. LEVER, P KICK
M060	614 215 7404	SPRING, TENS, PK LEVER
M061	614 206 3491	MAGNETIC COIL, SOLENOID
M062	412 032 3100	SPECIAL WASHER, E RING D2.0
M063	412 032 3209	SPECIAL WASHER, HL CUT 1.5X3.5X0.5
M064	412 032 3308	SPECIAL WASHER, HL CUT 2.1X5X0.4
M065	614 229 1382	LEVER, E STOPPER A
M066	614 229 1399	LEVER, E STOPPER B
M067	614 229 1443	SLIDE, SW PROTECTOR

REF. NO.	PART NO.	DESCRIPTION
M075	412 032 2509	SPECIAL SCREW, S TAPP TAMS M2X5
M076	412 027 5805	SPECIAL SCREW, CAMERA S TAPP M2X5
M077	614 229 1498	SPRING, WIRE, E STOPPER
M078	614 206 3095	COLLAR, E STOPPER
M079	614 207 2882	ASSY. LEVER, T GEAR ARM (F)
M080	614 229 1344	GEAR, T(A)
M081	614 229 1504	SPRING, WIRE, TG ARM (F)
M082	412 013 4904	SPECIAL WASHER, P CUT 1.2X3X0.25
M083	614 206 4467	ASSY. LEVER, T GEAR ARM (R)
M084	614 229 1511	SPRING, WIRE, TG ARM (R)
M085	412 032 3506	SPECIAL WASHER, NYLON 2.1X3.5X0.5
M086	412 027 9803	SPECIAL WASHER, NYLON 1.8X3.5X0.5
M087	614 212 7469	ASSY. PINCH ROLLER, ARM (F)
M088	614 206 3354	SPRING, WIRE, P ARM (F)
M089	614 212 7476	ASSY. PINCH ROLLER, ARM (R)
M090	614 206 3361	SPRING, WIRE, P ARM (R)
M091	614 234 0226	ASSY. FLYWHEEL, (F)
M092	614 206 2722	ASSY. BRACKET-E, FL METAL (F)
M093	412 032 3605	SPECIAL SCREW, S TAPP M2X6
M094	412 032 3704	SPECIAL WASHER, HL CUT 1.8X4X0.5
M095	412 039 2106	SPRING, WIRE, HL CUT 2.3X3.8X0.3
M096	614 234 0219	ASSY. FLYWHEEL, (R)
M097	614 214 0888	ASSY. BRACKET-E, FL METAL (R)
M098	412 032 5401	SPECIAL WASHER, HL CUT 1.5X3.5X0.5
M099	412 026 1402	SPECIAL SCREW, S TAPP M2X3
M100	614 229 1528	PCB, MECHANISM
M101	614 206 3538	SWITCH, LEAF, MTS-10250MU0
M102	614 224 9246	SWITCH, LEAF, MSW-1699CF
M103	614 224 9253	SWITCH, LEAF, MSW-17944MU0
M104	409 128 5209	IC LB9051A, HALL
M105	614 206 2968	HOLDER, IC PROTECTOR
M106	614 017 3888	PLUG, 9P
M107	407 004 9105	DIODE DSF10C, SOLENOID COIL
M108	614 229 1450	SPRING, TENS, E LEVER
M109	614 206 3101	COLLAR, E KICK LEVER
M110	614 229 1429	SLIDE, E SLIDE LEVER
M111	412 032 2509	SPECIAL SCREW, S TAPP TAMS M2X5
M112	614 229 1764	ASSY. HEAD, PLAY, P-HEAD BLOCK, FOR SERVICE
M113	614 229 1771	ASSY. PCB, MECHANISM, FOR SERVICE
M114	614 207 6231	ASSY. BRACKET-M, REEL-BASE, FOR SERVICE

EXPLODED VIEW (TAPE MECHANISM "DECK 2")



PARTS LIST (TAPE MECHANISM "DECK-2")

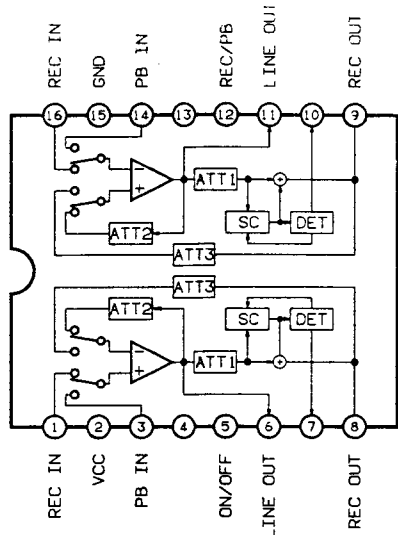
DECK-2 MECHANISM (TM-T55RTN)

REF. NO.	PART NO.	DESCRIPTION
M201	614 229 1832	ASSY. CHASSIS
M202	614 229 1405	PLATE, PACK
M203	412 027 2606	SPECIAL SCREW, C TAPP M2X3
M204	614 212 4451	GUIDE, TAPE
M205	614 229 1481	SPRING, WIRE, CLUMP (V)
M206	614 212 5991	COLLAR, PANEL
M207	614 206 3118	COLLAR, CHP LEVER
M208	614 229 1566	ASSY. BRACKET-E-HEAD BASE
M209	614 206 1954	PCB, RELAY BOARD
M210	412 041 6505	SPECIAL SCREW, HEAD COLLAR
M211	614 206 2937	SPACER, HEAD
M212	614 206 2975	FIXER, WIRE CLAMP
M213	614 206 3248	SLIDE, HEAD PANEL (A)
M214	614 206 2821	ASSY. SLIDE, HEAD PANEL (B)
M215	614 206 3286	SPRING, TENS, RC
M216	614 206 3293	SPRING, TENS, PANEL
M217	614 206 3194	LEVER, CHP
M218	614 214 0970	SPRING, WIRE, PINCH ROLLER
M219	614 227 2152	HEAD, R/P
M220	412 032 2707	SPECIAL SCREW, TAMS M2X5
M221	412 032 2806	SPECIAL SCREW, M1.7X3 (FOR CAMERA)
M222	412 032 2509	SPECIAL SCREW, S TAPP TAMS M2X5
M223	614 215 7428	SPRING, PLATE, PANEL
M224	412 032 3001	SPECIAL SCREW, CUPS TAPP M2X5
M225	412 032 4800	SPECIAL SCREW, BIND M2X5
M226	614 206 4849	BELT, FLAT, RF
M227	614 229 1849	ASSY. PULLEY, RF CLUTCH
M228	412 034 0909	SPECIAL SCREW, GUIDE
M229	614 229 1412	PLATE, SHIELD
M231	614 206 4399	ASSY. REEL, T(F)
M232	614 207 2158	ASSY. REEL, T(R)
M233	614 206 4382	ASSY. BRACKET-M, REEL BASE
M234	614 206 4658	GEAR, FF
M235	614 212 4529	SPRING, COMP, GUIDE
M238	614 206 3309	SPRING, COMP, B, T(R)
M239	412 026 2003	SPECIAL SCREW, C TAPPING M2X4
M240	412 013 4904	SPECIAL WASHER, P CUT 1.2X3X0.25
M241	412 013 7608	SPECIAL WASHER, P CUT 2.1X5X0.5
M242	412 032 3902	SPECIAL WASHER, HL CUT 1.4X3.2X0.4
M243	614 206 3149	LEVER, RF TRIGGER ARM
M245	614 206 2951	CUSHION, MAT
M246	614 206 2944	CUSHION, RUBBER, MOTOR
M247	412 032 4008	SPECIAL SCREW, MOTOR COLLAR
M248	614 229 1368	BELT, FLAT, MAIN
M250	614 229 1290	BRACKET-M, MOTOR
M251	614 229 1818	ASSY. MOTOR, EG530YD-2BH
M252	412 026 1402	SPECIAL SCREW, C TAPP M2X3
M253	412 043 3601	SPECIAL SCREW, CAMERA M2X3.5
M255	614 229 1320	CUSHION, RUBBER, MOTOR
M256	614 206 3347	SPRING, WIRE, M TRIGGER ARM
M257	614 206 3002	GEAR, M
M258	614 206 3019	GEAR, RF CAM
M259	614 206 3170	LEVER, M TRIGGER ARM
M260	614 206 2906	SHAFT, PLUNGER
M261	614 206 4627	HOLDER, PLUNGER
M262	614 229 1856	ASSY. SLIDE, CH SLIDE LEVER
M264	614 206 2807	ASSY. LEVER, P KICK
M265	614 215 7404	SPRING, TENS, PK LEVER
M266	614 206 3491	MAGNETIC COIL, SOLENOID
M267	412 032 3100	SPECIAL WASHER, E RING D2.0
M268	412 032 3209	SPECIAL WASHER, HL CUT 1.5X3.5X0.5
M269	412 032 3308	SPECIAL WASHER, HL CUT 2.1X5X0.4
M270	614 229 1382	LEVER, E STOPPER A
M271	614 229 1399	LEVER, E STOPPER B
M274	614 229 1443	SLIDE, SW PROTECTOR
M275	412 032 2509	SPECIAL SCREW, S TAPP TAMS M2X5

REF. NO.	PART NO.	DESCRIPTION
M276	412 027 5805	SPECIAL SCREW, CAMERA TAPP M2X5
M277	614 229 1498	SPRING, WIRE, E STOPPER
M278	614 206 3095	COLLAR, E STOPPER
M279	614 207 2882	ASSY. LEVER, T GEAR ARM (F)
M280	614 229 1344	GEAR, T(A)
M281	614 229 1504	SPRING, WIRE, TG ARM (F)
M282	412 013 4904	SPECIAL WASHER, P CUT 1.2X3X0.25
M283	614 206 4467	ASSY. LEVER, T GEAR ARM (R)
M284	614 229 1511	SPRING, WIRE, TG ARM (R)
M285	412 032 3506	SPECIAL WASHER, NYLON 2.1X3.5X0.5
M286	412 027 9803	SPECIAL WASHER, NYLON 1.8X3.5X0.5
M288	614 212 7469	ASSY. PINCH ROLLER, ARM (F)
M289	614 206 3354	SPRING, WIRE, P ARM (F)
M290	614 212 7476	ASSY. PINCH ROLLER, ARM (R)
M291	614 206 3361	SPRING, WIRE, P ARM (R)
M295	614 234 0226	ASSY. FLYWHEEL, (F)
M296	614 206 2722	ASSY. BRACKET-E, FL METAL (F)
M297	412 032 3605	SPECIAL SCREW, S TAPP M2X6
M298	412 032 3704	SPECIAL WASHER, HL CUT 1.8X4X0.5
M299	412 039 2106	SPECIAL WASHER, HL 2.3X3.8X0.3
M300	614 234 0219	ASSY. FLYWHEEL, (R)
M301	614 214 0888	ASSY. BRACKET-E, FL METAL (R)
M302	412 032 5401	SPECIAL WASHER, HL CUT 1.5X3.5X0.5
M303	412 034 0800	SPECIAL WASHER, HL 2.1X3.5X0.3
M304	412 026 1402	SPECIAL SCREW, C TAPP M2X3
M308	614 229 1528	PCB, MECHANISM
M309	614 206 3538	SWITCH, LEAF, MSW-10250MV, TO
M310	614 224 9246	SWITCH, LEAF, MSW-1699CF
M311	614 224 9253	SWITCH, LEAF, MSW-17944MVD0
M312	409 128 5209	IC L89051A, HALL
M313	314 206 2968	HOLDER, IC PROTECTOR
M314	614 017 3918	PLUG, 9P
M315	407 004 9105	DIODE DSF10C, SOLENOID COIL
M316	614 229 1450	SPRING, TENS, E LEVER
M317	614 206 3101	COLLAR, E KICK LEVER
M318	614 229 1429	SLIDE, E SLIDE LEVER
M319	412 032 2509	SPECIAL SCREW, S TAPP TAMS M2X5
M350	614 229 1955	ASSY. HEAD, R/P, R/P-HEAD BLOCK, FOR SERVICE
M360	614 233 9961	ASSY. PCB, MECHANISM, FOR SERVICE
M370	614 207 6231	ASSY. BRACKET-M, REEL-BASE, FOR SERVICE

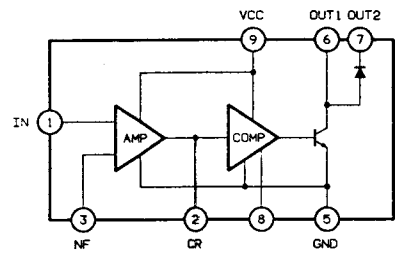
IC BLOCK DIAGRAM (TAPE DECK)

IC351 CXA1100P(Dolby-B Noise Reduction System)

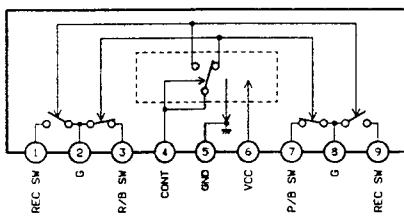


ATT: ATTENUATOR
SC: SIDE CHAIN
DET: DETECTOR

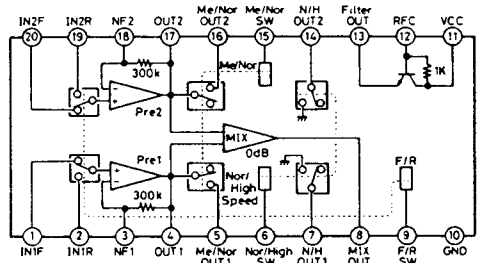
IC362 LA2000(Audio Level Sensor)



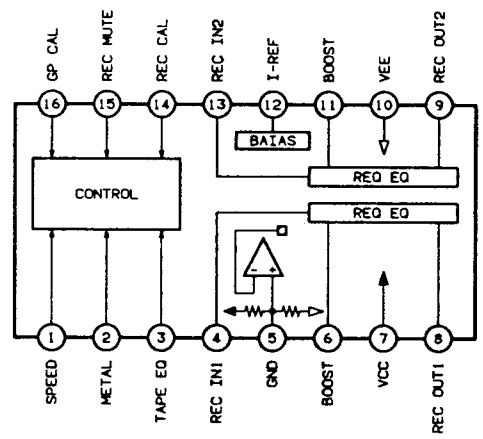
IC363 BA3216N(2 - ch Head Switch for Radio Cassette)



IC371 LA3246(Pre-Amplifier Electrical SW)



IC372 CXA1398P(Record Equalizer. Amplifier for Stereo Cassette recorder)

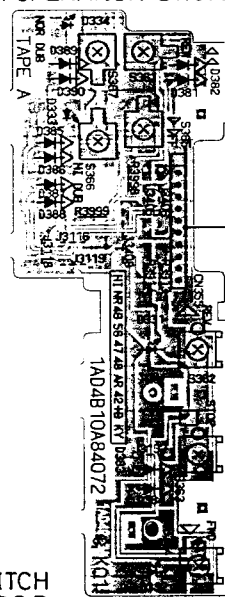


IC BLOCK DIAGRAM (TAPE DECK)

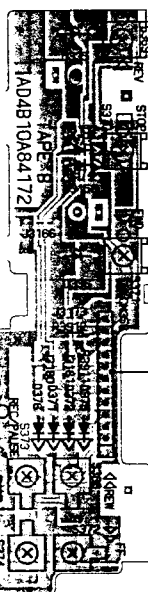
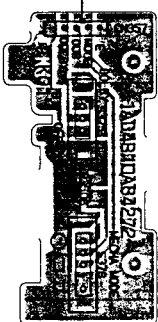
IC361 LC66508-4119(Micro Processor)

No.	NAME	DESCRIPTION	LOW	HIGH	I/O	No.	NAME	DESCRIPTION	LOW	HIGH	I/O
1	PDOWN	Power Down	ON		I	33	OSC2	Pin for connection to 4.19MHz Oscillation			O
2	DATA	Connect to +5v through the resistor, 10k ohm.				34	RESET	Input terminal of system Reset			I
3	CLK	Ground				35	A-PACK SW	Detecting terminal for Cassette in A Mechanism	being	not	I
4	POWER	Connect to +5v through the resistor, 10k ohm.				36	A-FF/ RWD SW	Detecting terminal for FF, RWD mode in A Mechanism	FF	RWD	I
5	PMUTE	Play Mute control	OFF	ON	O	37	A-PLAY SW	Detecting terminal for Play mode in A Mechanism	PLAY		I
6	RMUTE	Record Mute control	OFF	ON	O	38	A-P2	A Mechanism FF, RWD Plunger control	ON		O
7	PLAY A/B	A Mechanism, B Mechanism Play signal control	PLAY A	PLAY B	O	39	A-P1	A Mechanism Play Plunger control	ON		O
8	AMS IN	AMS signal input	non signal	signal	I	40	A- MOTOR	A Mechanism Motor switching	ON		O
9	A-FF LED	Ground				41	A-HIGH	A Mechanism Motor speed switching	LOW	HIGH	O
10	A-RWD LED	Connect to +5v through the resistor, 10k ohm.				42	A-FOV LED	A Mechanism Forward LED	ON		O
11	B-FF LED	Ground				43	B-FOV LED	B Mechanism Forward LED	ON		O
12	B-RWD LED	Connect to +5v through the resistor, 10k ohm.				44	REC LED	B Mechanism Record LED	ON		O
13	A-REV LED	A Mechanism Reverse LED	ON		O	45	MUTE LED	B Mechanism Record Mute LED	ON		O
14	B-REV LED	B Mechanism Reverse LED	ON		O	46	KEY1	Key 1 : FPLAY (A Forward Play)			I
15	A- ANTREC	A Anti-Record switch for B Mechanism Forward	REC	ANT REC	I	47	KEY2	Key 1 : RPLAY (A Reverse Play)			I
16	B- ANTREC	B Anti-Record switch for B Mechanism Reverse	REC	ANT REC	I	48	KEY3	Key 1-2 : STOP (A Stop) Key 1-3 : FF (A Fast Forward) Key 2-3 : REW (A Rewind)			I
17	B-REEL SW	B Mechanism Reel Pulse			I	49	KEY8	Key 5-6 : REW (B Rewind) Key 7 : REC (A Record) Key 8 : MUTE (A Record Mute)			I
18	B-PACK SW	Detecting terminal for Cassette in B Mechanism	being	not	I	50	KEY4	Key 4 : FPLAY (B Forward Play)			I
19	B- FF/RWD SW	Detecting terminal for FF, RWD mode in B Mechanism	FF	RWD	I	51	KEY5	Key 5 : RPLAY (B Reverse Play)			I
20	B-PLAY SW	Detecting terminal for Play mode in B Mechanism	PLAY		I	52	KEY6	Key 4-5 : STOP (B Stop)			I
21	B-P2	B Mechanism FF, RWD Plunger control	ON		O	53	KEY7	Key 4-6 : FF (B Fast Forward)			I
22	B-P1	B Mechanism Play Plunger control	ON		O	54	DIR	Direction switch Low : ♀, Mid : ♂, Hi : ♂			I
23	B- MOTOR	B Mechanism Motor switching	ON		O	55	TIMER	Timer standby switch Low : PLAY, Mid : OFF, Hi : REC			I
24	B-HIGH	B Mechanism Motor speed switching	LOW	HIGH	O	56	KEY9	Key 1-9 : DUB (Normal speed) Key 3-9 : HDUB (High speed) Key 4-9 : CDUB (Normal speed CD) Key 6-9 : HCDUB (High speed CD)			I
25	A/B LED	Open				57	KEYOUT	Switching to segment diodes & KEYIN			O
26	DUB LED	Normal speed Dubbing LED	ON		O	58	RESET	Counter Reset switch			
27	HDUB	High speed Dubbing LED	ON		O	59	IRIN	Remocon data signal			I
28	IRIND	Open				60	DUBIN	Dubbing control input			I
29	A-REEL	A Mechanism Reel Pulse			I	61	CSTOP	Call Stop input			I
30	TEST	Ground				62	DUBOUT	Dubbing control output			O
31	VSS	Ground				63	AF	Auto Function control			O
32	OSC1	Pin for connection to 4.19MHz Oscillation			I	64	VDD	Power Source			O

TAPE DECK 1 OPERATION SWITCH P.C.B

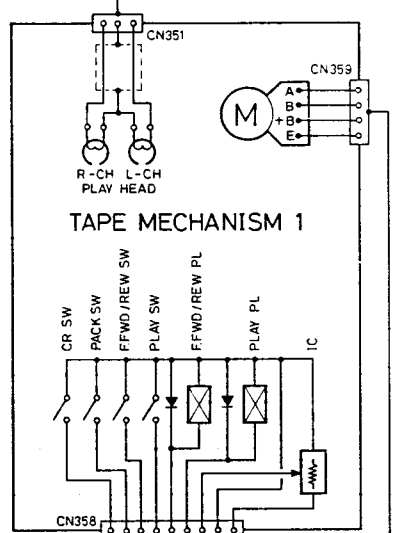


DOLBY / MODE SWITCH P.C.B

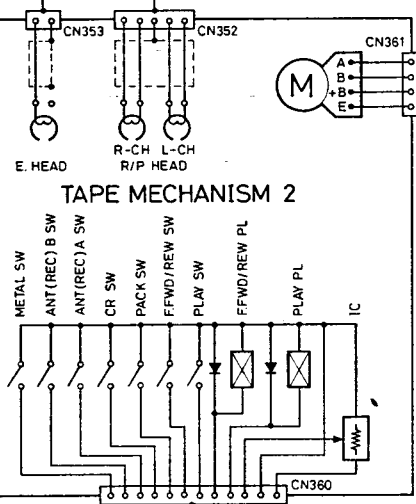


TAPE DECK 2 OPERATION SWITCH P.C.B

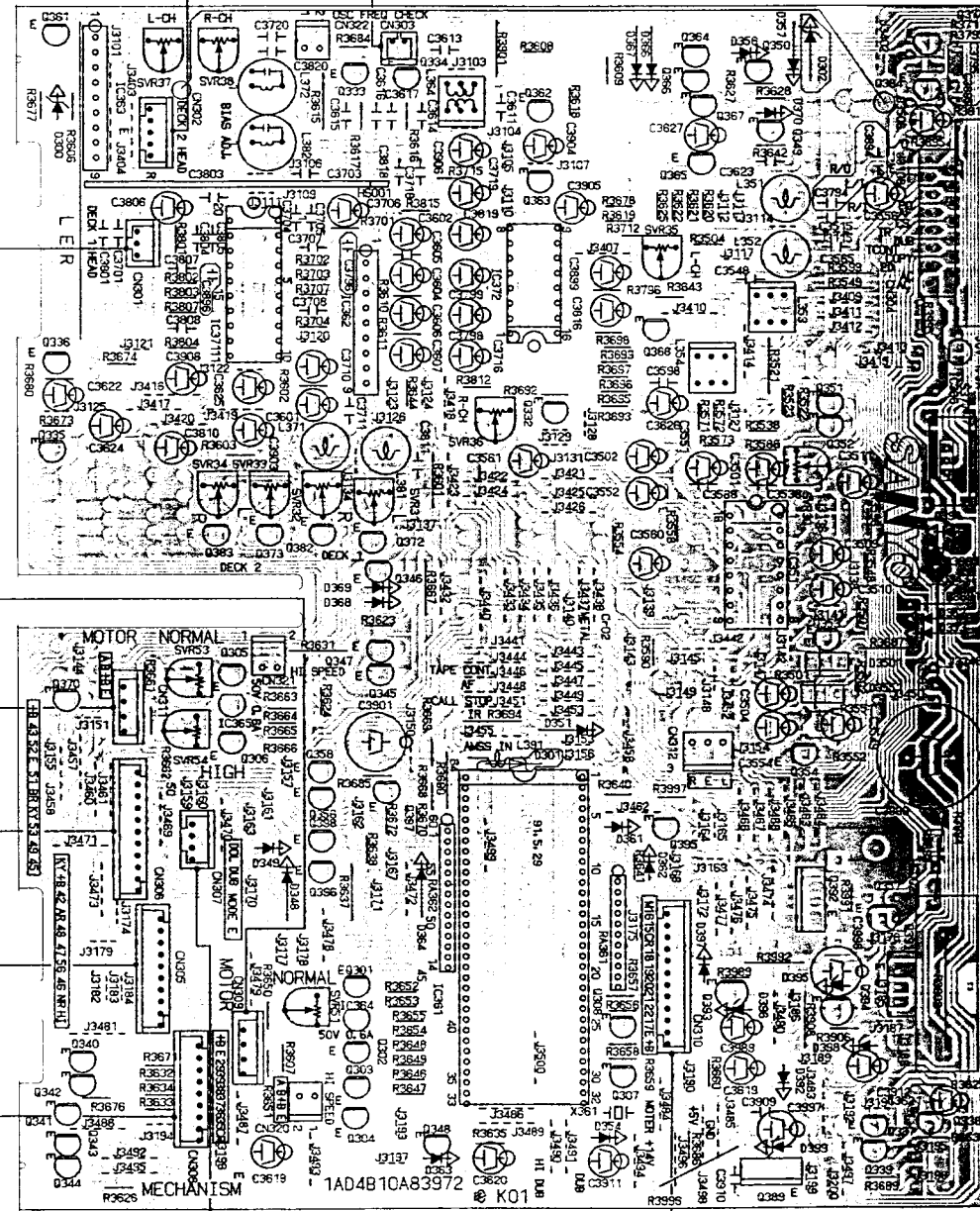
TAPE MECHANISM 1



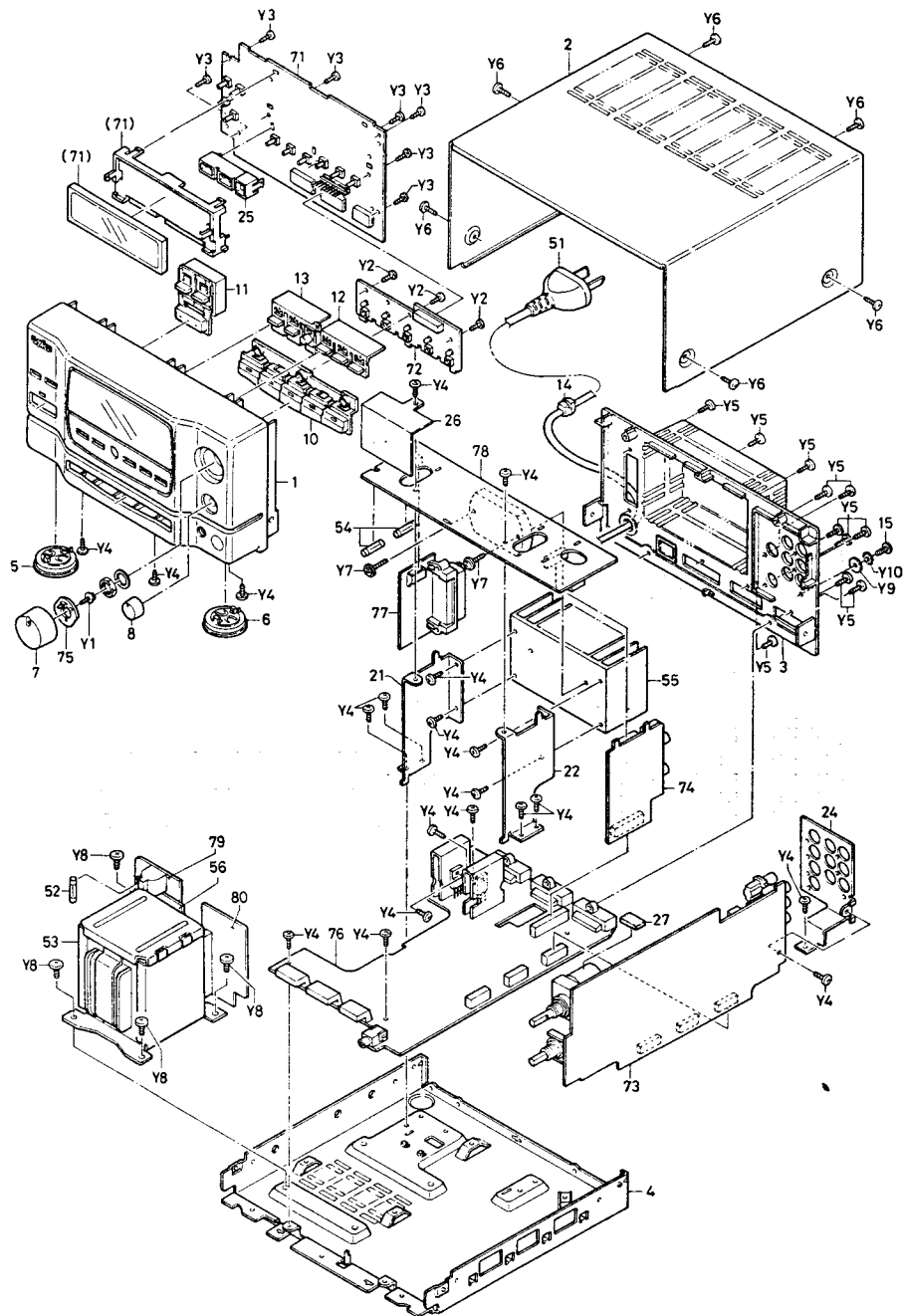
TAPE MECHANISM 2



DECK MAIN P.C.B



AMPLIFIER UNIT (DC-T44AMP) EXPLODED VIEW (AMPLIFIER)



PARTS LIST (AMPLIFIER)

CABINET & CHASSIS (DC-T44AMP)

REF. NO.	PART NO.	DESCRIPTION
1	614 232 8651	ASSY. PANEL, FRONT
2	614 232 6763	ASSY. CABINET
3	614 241 4590	ASSY. PANEL, REAR
4	614 227 8727	ASSY. CABINET, BOTTOM
5	614 227 1131	ASSY. FOOT, FRONT-L
6	614 227 1148	ASSY. FOOT, FRONT-R
7	614 236 1016	KNOB, ROTARY, VOLUME
8	614 236 1023	KNOB, ROTARY, BALANCE
10	614 229 2815	ASSY. BUTTON, FUNCTION
11	614 227 1599	BUTTON, POWER
12	614 227 1605	BUTTON, G. EQUALIZER
13	614 227 1612	BUTTON, SOUND ON/OFF
14	614 129 1772	FIXER, AC CORD
15	412 003 2804	SPECIAL SCREW, PHONO EARTH
21	614 227 1766	BRACKET-E, HEATSINK, L
22	614 227 1773	BRACKET-E, HEATSINK, R
23	614 229 0842	SHIELD, P.T
24	614 227 2008	SHIELD, TERMINAL (RCA)
25	614 227 2015	REFLECTOR, SOUND P. LED
26	614 232 7197	COVER, MAIN-AMP PCB
27	614 125 6443	CUSHION, WIRE FIX
	614 129 4971	FIXER, WIRE FIX

FIXING PARTS (DC-T44AMP)

REF. NO.	PART NO.	DESCRIPTION
Y1	411 024 3807	SCR S-TPG PAN+FLG 2X8
Y2	411 021 3107	SCR S-TPG BIN 2.6X8
Y3	411 021 1806	SCR S-TPG BIN 2.6X10
Y4	411 021 6405	SCR S-TPG BIN 3X8
Y5	411 021 3503	SCR S-TPG BIN 3X10
Y6	411 021 3701	SCR S-TPG BIN 3X10(B)
OR	411 021 3404	SCR S-TPG BIN 3X10(W)
Y7	411 020 9407	SCR S-TPG BRZ+FLG 3X14
Y8	411 001 4209	SCR S-TPG BIN 4X8
Y9	411 105 9704	WASHER Z 3X10X1
Y10	411 008 0402	WASHER OUT TW 3
Y11	411 021 5903	SCR S-TPG BIN 3X6

ELECTRICAL PARTS (DC-T44AMP)

REF. NO.	PART NO.	DESCRIPTION
51	Δ614 194 8386	POWER CORD, AC
52	Δ423 005 6509	FUSE 250V 1.25A, F4900
53	Δ614 232 8545	POWER TRANSFORMER, PT400
54	Δ423 016 8004	FUSE 250V 3.15A, F4700-4800
55	614 226 8193	HEAT SINK, FOR IC403
56	614 241 7355	PCB, PT COVER

AMP FRONT P.C.B. BOARD ASSY

REF. NO.	PART NO.	DESCRIPTION
71	614 234 2220	ASSY. PCB, FL SPEANA
	614 227 1858	MOUNT-E, FL TUBE GUIDE
	614 226 7943	FLUORESCENT TUBE, SPEANA
CN410	614 226 9954	PLUG, 8P, TO MICON PCB
CN411	614 226 9978	PLUG, 10P, TO MICON PCB
CN412	614 226 9978	PLUG, 10P, TO MICON PCB
CN413	614 229 0392	PLUG, 13P, TO FUNC SW PCB
D4005	407 012 4406	DIODE 1SS133
D4006	407 012 4406	DIODE 1SS133
D4007	407 012 4406	DIODE 1SS133
D4008	407 012 4406	DIODE 1SS133
D4009	407 012 4406	DIODE 1SS133
D4010	407 012 4406	DIODE 1SS133

REF. NO.	PART NO.	DESCRIPTION
D4011	407 012 4406	DIODE 1SS133
D4012	407 012 4406	DIODE 1SS133
D4413	407 012 4406	DIODE 1SS133
D4414	407 012 4406	DIODE 1SS133
D4908	407 053 6308	ZENER DIODE MT25.1B
D4909	408 015 0709	LED SLZ-382F-45-AB-T1, SOUND ON/OFF
		F
D4910	408 014 3800	LED SLZ-382F-03-AB-T1, SURROUND
D4911	408 014 3800	LED SLZ-382F-03-AB-T1, SURROUND
D4912	408 014 3800	LED SLZ-382F-03-AB-T1, SURROUND
		DYNAMIC BASS
D4913	408 014 3800	LED SLZ-382F-03-AB-T1, SURROUND
		DYNAMIC BASS
D4914	407 107 2706	DIODE DAN803
D4916	408 014 4302	LED SLZ-151B-06-AB-T2, POWER
IC400	409 235 2603	IC XRA14741
OR	409 143 7004	IC BA14741
IC401	409 235 2603	IC XRA14741
OR	409 143 7004	IC BA14741
IC402	409 112 9206	IC LC7565A
Q4403	405 000 3400	TR DTC114TS
Q4404	405 000 3400	TR DTC114TS
RA401	614 209 3696	RESISTOR 100K X8
OR	614 218 0464	RESISTOR 100K X8
RA402	614 209 3719	RESISTOR 100K X9
OR	614 218 0471	RESISTOR 100K X9
RA403	614 218 0518	RESISTOR 100K X13
OR	614 209 3795	RESISTOR 100K X13
S4906	614 220 5655	SWITCH, TACT, G.EQ UP
S4907	614 220 5655	SWITCH, TACT, FREQ/MEMO
S4908	614 220 5655	SWITCH, TACT, G.EQ DOWN
S4909	614 220 5655	SWITCH, TACT, SOUND ON/OFF
S4910	614 220 5655	SWITCH, TACT, SURROUND
S4911	614 220 5655	SWITCH, TACT, DYNAMIC BASS
S4912	614 220 5655	SWITCH, TACT, PROGRAMED
S4913	614 220 5655	SWITCH, TACT, PRESET
S4914	614 220 5655	SWITCH, TACT, POWER

FUNCTION SWITCH P.C.B. BOARD ASSY

REF. NO.	PART NO.	DESCRIPTION
72	614 234 2237	ASSY. PCB, FUNC SW
CN409	614 221 9133	SOCKET, 13P, TO FRONT PCB
D4903	407 036 9203	LED SLP-138C-51-B, TAPE
D4904	407 036 9203	LED SLP-138C-51-B, TUNER
D4905	407 036 9203	LED SLP-138C-51-B, CD
D4906	407 036 9203	LED SLP-138C-51-B, PHONO
D4907	407 036 9203	LED SLP-138C-51-B, AV
S4901	614 220 5631	SWITCH, TACT, TAPE
S4902	614 220 5631	SWITCH, TACT, TUNER
S4903	614 220 5631	SWITCH, TACT, CD
S4904	614 220 5631	SWITCH, TACT, PHONO
S4905	614 220 5631	SWITCH, TACT, AV

PRE-AMPLIFIER P.C.B. BOARD ASSY

REF. NO.	PART NO.	DESCRIPTION
73	614 234 2251	ASSY. PCB, FUNCTION
C4507	403 062 6209	POLYESTER 0.056V J 50V
C4509	403 057 1905	POLYESTER 0.1U J 50V
C4510	403 057 1905	POLYESTER 0.1U J 50V
C4511	403 057 1905	POLYESTER 0.1U J 50V
C4512	403 057 1905	POLYESTER 0.1U J 50V
C4515	403 139 9102	MT-POLYEST 0.082U J 63V
C4517	403 065 8200	MT-POLYEST 0.27U J 63V
C4518	403 139 8600	MT-POLYEST 0.033U J 63V

PARTS LIST (AMPLIFIER)

REF.NO.	PART NO.	DESCRIPTION
519	403 065 8002	MT-PLLYEST 0.1U J 63V
607	403 062 6209	POLYESTER 0.056U J 50V
609	403 057 1905	POLYESTER 0.1U J 50V
610	403 057 1905	POLYESTER 0.1U J 50V
611	403 057 1905	POLYESTER 0.1U J 50V
612	403 057 1905	POLYESTER 0.1U J 50V
615	403 139 9102	MT-POLYEST 0.082U J 63V
617	403 065 8200	MT-POLYEST 0.27U J 63V
618	403 139 8600	MT-POLYEST 0.033U J 63V
619	403 065 8002	MT-PLLYEST 0.1U J 63V
460	614 229 0279	ASSY.CONNCTOR-P.2P.TO VOL MOTOR
461	614 017 2539	PLUG.2P.TO VOL LED PCB
462	614 226 0067	SOCKET.9P.TO MICON PCB
463	614 226 0050	SOCKET.8P.TO MICON PCB
464	614 226 0067	SOCKET.9P.TO MICON PCB
465	614 226 8230	SOCKET.8P(RCA), AUDIO(AM-OUT-AV-IN-PHONO)
466	614 226 0012	SOCKET.4P.TO MAIN-AMP. PCB
057	407 013 7109	DIODE 1S2473
058	407 007 9904	DIODE GMA01
953	407 053 5806	ZENER DIODE MT24.7B
954	407 053 5806	ZENER DIODE MT24.7B
955	407 053 6308	ZENER DIODE MT25.1B
956	407 053 7701	ZENER DIODE MT26.8C
957	407 053 7701	ZENER DIODE MT26.8C
958	407 053 6407	ZENER DIODE MT25.1C
451	409 232 7205	IC XR4051B
	409 003 9308	IC BU4051B
452	409 232 7205	IC XR4051B
	409 003 9308	IC BU4051B
453	409 238 6806	IC RC4558S-D-MIC MIX
454	409 238 6806	IC RC4558S-D-GEQ BUFFER
455	409 114 4803	IC LB1641-MOTOR DRIVE
456	409 088 4007	IC LC7522-7-GEQ VR
457	409 238 6806	IC RC4558S-D-D-BASS
472	409 238 6806	IC RC4558S-D-PHONO
51	614 027 9214	CHOK COIL
056	405 000 6104	TR DTC144ES
057	405 000 6104	TR DTC144ES
058	405 000 0508	TR DTA114ES
059	405 000 0508	TR DTA114ES
1500	405 011 8609	TR ZSC1740S
1502	405 011 8609	TR ZSC1740S
1503	405 011 8609	TR ZSC1740S
1504	405 011 8609	TR ZSC1740S
1505	405 011 8609	TR ZSC1740S
1506	405 011 8609	TR ZSC1740S
1507	405 011 8609	TR ZSC1740S
1508	405 011 8609	TR ZSC1740S
1509	405 011 8609	TR ZSC1740S
1510	405 011 8609	TR ZSC1740S
1600	405 011 8609	TR ZSC1740S
1602	405 011 8609	TR ZSC1740S
1603	405 011 8609	TR ZSC1740S
1604	405 011 8609	TR ZSC1740S
1605	405 011 8609	TR ZSC1740S
1606	405 011 8609	TR ZSC1740S
1607	405 011 8609	TR ZSC1740S
1608	405 011 8609	TR ZSC1740S
1609	405 011 8609	TR ZSC1740S
1610	405 011 8609	TR ZSC1740S
4756	402 004 4303	FUSIBLE RES 10 J-1/4W
3456	614 218 0464	RESISTOR.100K X8
3457	614 209 3696	RESISTOR.100K X8
3458	614 218 0464	RESISTOR.100K X8
3459	614 209 3696	RESISTOR.100K X8
3451	614 228 1338	VR.ROTARY.250K OHM.BALANCE

PARTS LIST (AMPLIFIER)

REF.NO.	PART NO.	DESCRIPTION
VR452	614 219 2634	VR.ROTARY.50K OHM(W/MOTOR), MASTER VOLUME

VIDEO TERMINAL P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
74	614 234 2268	ASSY.PCB.VIDEO
CN451	614 226 0128	SOCKET.15P.TO MICON PCB
CN453	614 226 0081	SOCKET.11P.TO MAIN-AMP. PCB
CN455	614 230 0107	SOCKET.1P(RCA),AV-IN
CN483	614 230 0107	SOCKET.1P(RCA),MONITOR OUT
D4451	407 053 5806	ZENER DIODE MT24.7B
D4454	407 012 4406	DIODE 1SS133
IC458	409 232 1807	IC XR4052B
OR	409 003 9407	IC BU4052B
Q4452	405 006 1806	TR Z5A933S-R
Q4453	405 011 8609	TR ZSC1740S-S
R4461	402 004 4303	FUSIBLE RES 10 J-1/4W
R4978	401 059 2807	OXIDE-MT 150 JA 1W

VOLUME LED P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
75	614 234 2312	ASSY.PCB.VOL LED
CN480	614 229 0941	ASSY.CONNCTOR-S.2P. TO PRE-AMP. PCB
D4075	408 014 3909	LED SLP-190B-14-AB-T1.VOL POINTER

MICRO PROCESSOR P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
76	614 241 6907	ASSY.PCB.MICON
C4060	614 217 7266	LUG.WIRE FIX(L=30MM)
C4960	403 038 4505	ELECT 1000U M 6.3V
CN467	614 226 9992	ELECT 470U M 25V
CN468	614 227 0011	SOCKET.8P.TO FRONT PCB
CN469	614 227 0011	SOCKET.10P.TO FRONT PCB
CN470	614 220 9066	SOCKET.10P.TO FRONT PCB
CN471	614 225 9931	JACK-HEADPHONE
CN472	614 225 9931	PLUG.9P.TO PRE-AMP. PCB
CN473	614 225 9931	PLUG.8P.TO PRE-AMP. PCB
CN474	614 225 9931	PLUG.9P.TO PRE-AMP. PCB
CN475	614 227 2978	PLUG.15P.TO VIDEO PCB
CN476	614 227 2961	SOCKET.15P.TO DECK UNIT
CN477	614 227 2985	SOCKET.13P.TO TUNER UNIT
CN479	614 227 2985	SOCKET.15P.TO CD UNIT
CN477	614 020 6623	SOCKET.10P.TO P.T-SEC. PCB
CN484	614 020 6579	SOCKET.5P.SP TERMINAL
D4055	407 007 9904	DIODE GMA01
D4056	407 007 9904	DIODE GMA01
D4059	407 012 4406	DIODE 1SS133
D4060	407 012 4406	DIODE 1SS133
D4062	407 004 9105	DIODE DSF10C
D4063	407 013 7109	DIODE 1S2473
D4064	407 013 7109	DIODE 1S2473
D4065	407 013 7109	DIODE 1S2473
D4068	407 013 7109	DIODE 1S2473
D4076	407 007 9904	DIODE GMA01
D4077	407 013 7109	DIODE 1S2473
D4078	407 013 7109	DIODE 1S2473
D4080	407 007 9904	DIODE GMA01
D4081	407 007 9904	DIODE GMA01
D4082	407 013 7109	DIODE 1S2473
D4086	407 007 9904	DIODE GMA01

REF.NO.	PART NO.	DESCRIPTION
D4087	407 007 9904	DIODE GMA01
D4088	407 012 4406	DIODE 1SS133
D4089	407 005 4505	DIODE DS442X
D4951	407 053 3802	ZENER DIODE MT215C
D4952	407 053 3703	ZENER DIODE MT215B
D4959	407 004 9105	DIODE DSF10C
D4960	407 004 9105	DIODE DSF10C
D4961	407 004 9105	DIODE DSF10C
D4962	407 004 9105	DIODE DSF10C
HS401	614 203 7362	HEAT SINK.-B
HS402	614 203 7362	HEAT SINK.-B
IC459	410 112 6805	IC LC8650AB-4582
IC461	409 229 8406	IC RC78M05FA.MICON-B
IC462	409 218 3900	IC RC7812FA.MOTOR +B
L452	614 028 4256	FILTER
Q4051	405 006 1806	TR Z5A933S-R
Q4052	405 075 4906	TR DTC113ZS
Q4054	405 000 3103	TR DTC114ES
Q4055	405 000 0508	TR DTA114ES
Q4060	405 000 3103	TR DTC114ES
Q4061	405 082 4609	TR DTA123YS
Q4062	405 011 8609	TR ZSC1740S-S
Q4063	405 000 3806	TR DTC114YS
Q4064	405 000 3806	TR DTC114YS
Q4065	405 000 0508	TR DTA114ES
Q4066	405 000 3400	TR DTC114YS
Q4951	405 035 7206	TR Z5C1913-S
Q4952	405 007 2109	TR Z5B514-E
R4586	401 009 5506	CARBON 330 JB 1/2W
R4686	401 009 5506	CARBON 330 JB 1/2W
R4960	401 068 7305	OXIDE-MT 56 JA 2W
R4961	401 068 7305	OXIDE-MT 56 JA 2W
R4962	401 064 1406	OXIDE-MT 0.33 JA 2W
R4964	402 004 4303	FUSIBLE RES 10 J-1/4W
R4965	402 004 3801	FUSIBLE RES 1 J-1/4W
R4977	401 065 3201	OXIDE-MT 120 JA 2W
RA451	614 217 1295	RESISTOR 10K X4
OR	614 209 3603	RESISTOR 10K X4
RA452	614 217 1400	RESISTOR 10K X15
OR	614 209 8561	RESISTOR 10K X15
RA453	614 217 1400	RESISTOR 10K X15
OR	614 209 8561	RESISTOR 10K X15
RA454	614 217 1318	RESISTOR 10K X6
OR	614 209 3641	RESISTOR 10K X6
RA455	614 217 1295	RESISTOR 10K X4
OR	614 209 3603	RESISTOR 10K X4
RA458	614 217 1318	RESISTOR 10K X6
OR	614 209 3641	RESISTOR 10K X6
RA459	614 217 1288	RESISTOR 10K X3
OR	614 209 3580	RESISTOR 10K X3
Q4051	614 215 5523	RESONATOR.4.19MHZ

SPEAKER TERMINAL P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
77	614 241 6914	ASSY.PCB.SP TERMINAL
C4555	403 062 5905	POLYESTER 5600P M 50V
C4555	403 062 5905	POLYESTER 5600P M 50V
C4706	403 057 3800	POLYESTER 0.1U M 50V
C4707	403 057 3800	POLYESTER 0.1U M 50V
C4806	403 057 3800	POLYESTER 0.1U M 50V
C4807	403 057 3800	POLYESTER 0.1U M 50V
CN404	614 226 8247	TERMINAL.4P.SP
CN407	614 214 8624	PLUG.4P.TO MAIN-AMP. PCB
CN485	614 020 6579	SOCKET.5P.MICON
R4706	401 010 5601	CARBON 5.6 JB 1/2W
R4806	401 010 5601	CARBON 5.6 JB 1/2W

MAIN AMPLIFIER P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
78	614 241 6921	ASSY.PCB.MAIN AMP
	614 229 0286	ASSY.CONNCTOR-S.3P(CN400)
C4900	403 057 3800	POLYESTER 0.1U M 50V
C4901	403 057 3800	POLYESTER 0.1U M 50V
C4912	403 200 0304	ELECT 3300U M 35V
C4913	403 200 0304	ELECT 3300U M 35V
CN400	614 020 1222	SOCKET.3P.TO P.T SEC. PCB
CN401	614 214 8631	SOCKET.4P.TO SP PCB
CN402	614 225 9887	PLUG.4P.TO PRE-AMP. PCB
CN403	614 225 9955	PLUG.11P.TO VIDEO PCB
D4400	407 012 4406	DIODE 1SS133
D4401	407 012 4406	DIODE 1SS133
D4402	407 053 5806	ZENER DIODE MT24.7B
D4403	407 053 5806	ZENER DIODE MT24.7B
D4404	407 012 4406	DIODE 1SS133
D4415	407 005 4505	DIODE DS442X
D4416	407 013 7109	DIODE 1S2473
D4900	407 077 7800	DIODE RBV-402LF-A
OR	407 146 3306	DIODE RBA-402LF-A
FCP01	614 208 4540	FUSE HOLDER.FOR F4700
FCP02	614 208 4540	FUSE HOLDER.FOR F4700
FCP03	614 208 4540	FUSE HOLDER.FOR F4800
FCP04	614 208 4540	FUSE HOLDER.FOR F4800
IC403	409 047 0903	IC STK4152MK2
Q4400	405 000 0904	TR DTA114YS
Q4401	405 000 3806	TR DTC114YS
Q4402	405 018 0200	TR Z5C3331-U
Q4700	405 011 8609	TR ZSC1740S-S
Q4701	405 011 8609	TR ZSC1740S-S
Q4800	405 011 8609	TR ZSC1740S-S
Q4801	405 011 8609	TR ZSC1740S-S
R4711	401 008 7204	CARBON 2.2K JB 1/2W
R4811	401 008 7204	CARBON 2.2K JB 1/2W
R4900	402 023 1703	FUSIBLE RES 100 J-1/4W
R4901	402 023 1703	FUSIBLE RES 100 J-1/4W
RE900	614 224 4531	RELAY.AF SIGNAL

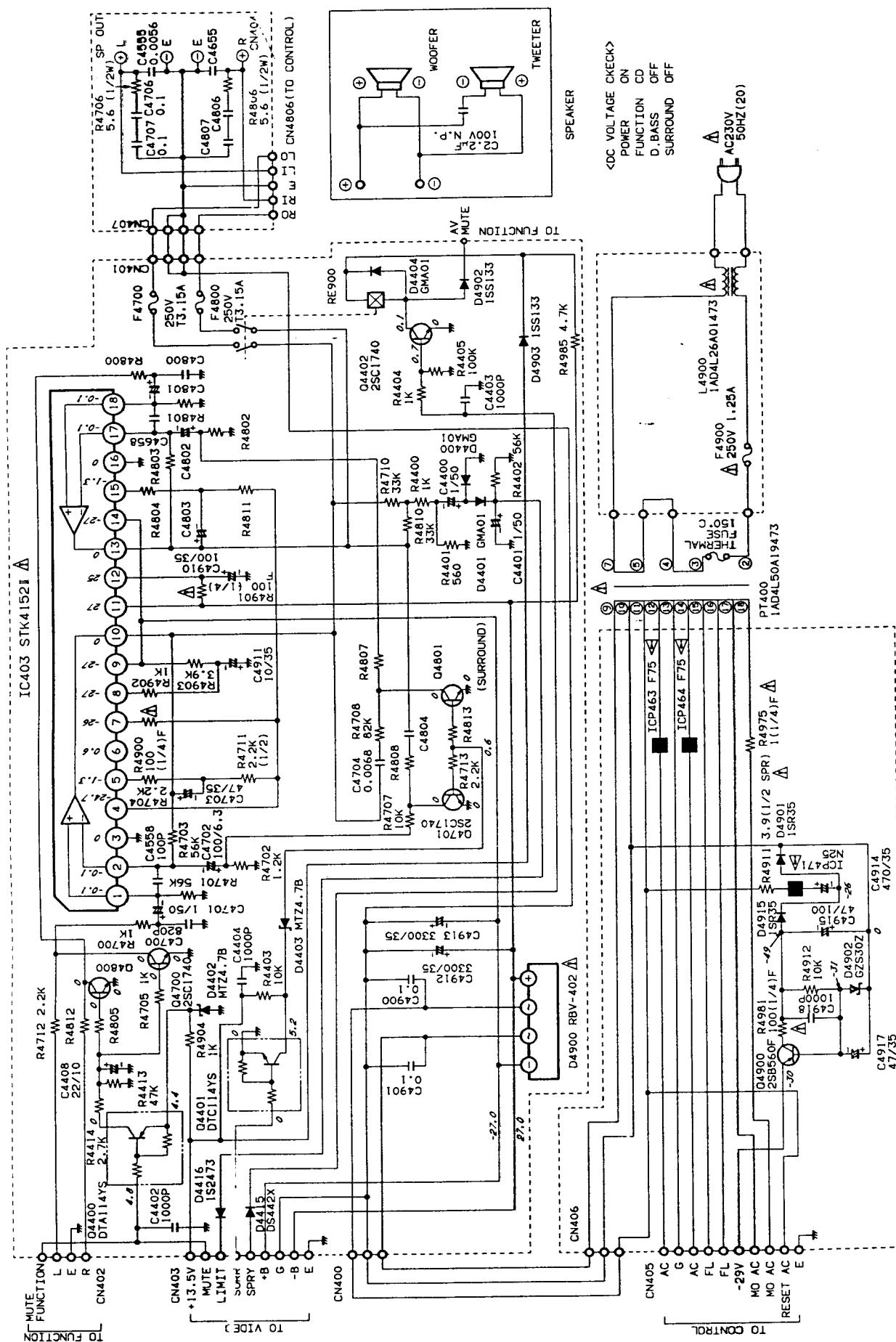
P.T PRIMARY P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
79	614 241 6938	ASSY.PCB.PT PRI
CN415	614 123 2089	TERMINAL.1P.AC IN
CN416	614 123 2089	TERMINAL.1P.AC IN
FCP05	614 208 4540	FUSE HOLDER
FCP06	614 208 4540	FUSE HOLDER
L4900	614 229 0439	INDUCTOR.FERITE.WITH COVER

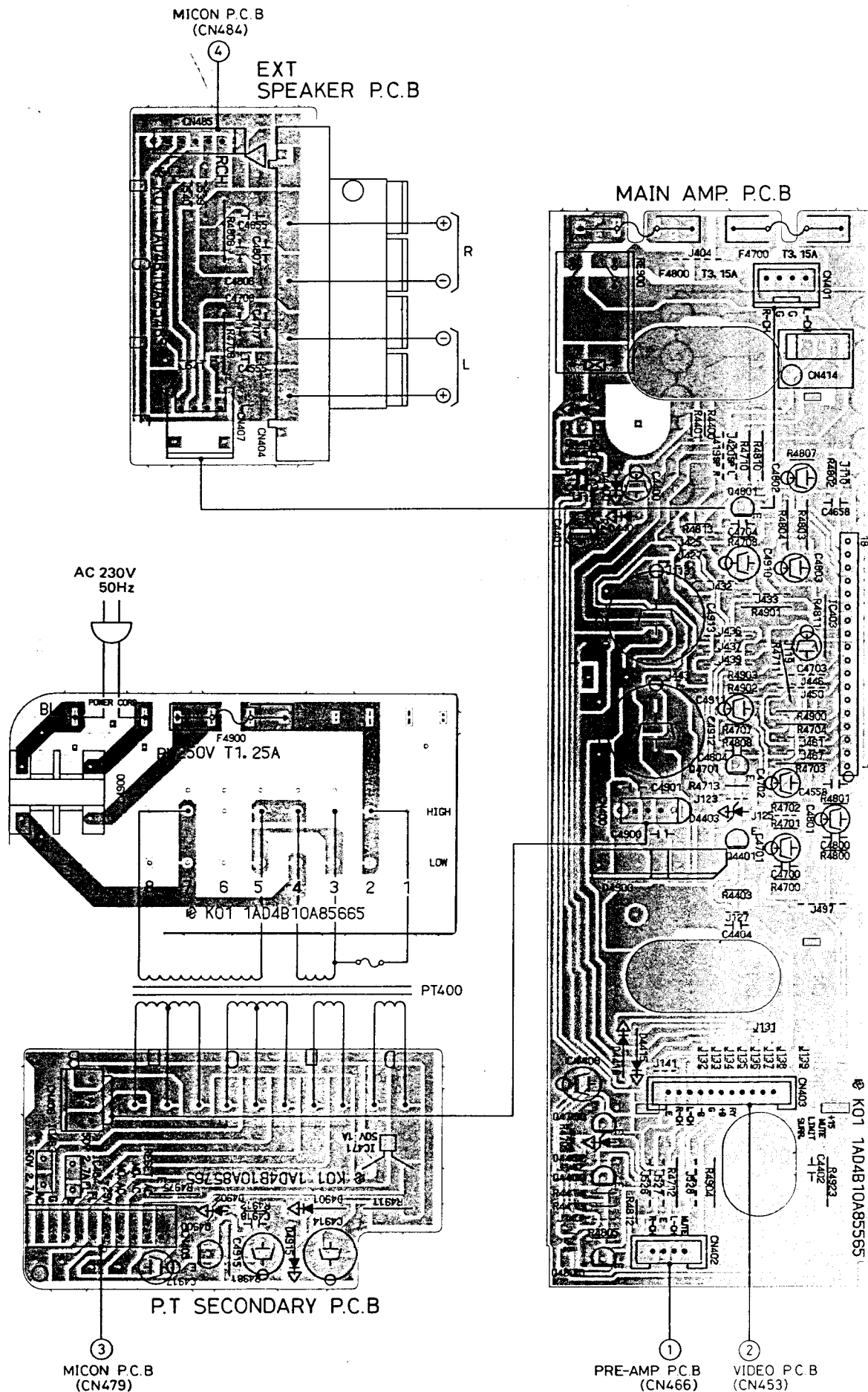
P.T SECONDARY P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
80	614 241 6945	ASSY.PCB.PT SEC
C4914	403 054 2608	ELECT 470U M 35V
C4915	404 051 1304	ELECT 47U M 100V
CN405	614 020 8917	SOCKET.10P.TO MICON PCB
CN406	614 017 0788	PLUG.3P.TO MAIN-AMP.PCB
C4901	407 012 3300	DIODE 1SR35-200A
C4902	407 070 4806	ZENER DIODE GZS30Z
C4915	407 012 3300	DIODE 1SR35-200A
ICP463	614 002 3329	IC-PROTECTOR ICP-F75
ICP464	614 002 3329	IC-PROTECTOR ICP-F75
ICP471	614 002 3367	IC-PROTECTOR ICP-N25
G4900	405 007 5308	TR Z5B560-F-MP
R4911	402 044 7906	RESISTOR 3.9 J-1/2W
R4975	402 004 3801	FUSIBLE RES 1 J-1/4W
R4981	402 023 1703	FUSIBLE RES 100 J-1/4W

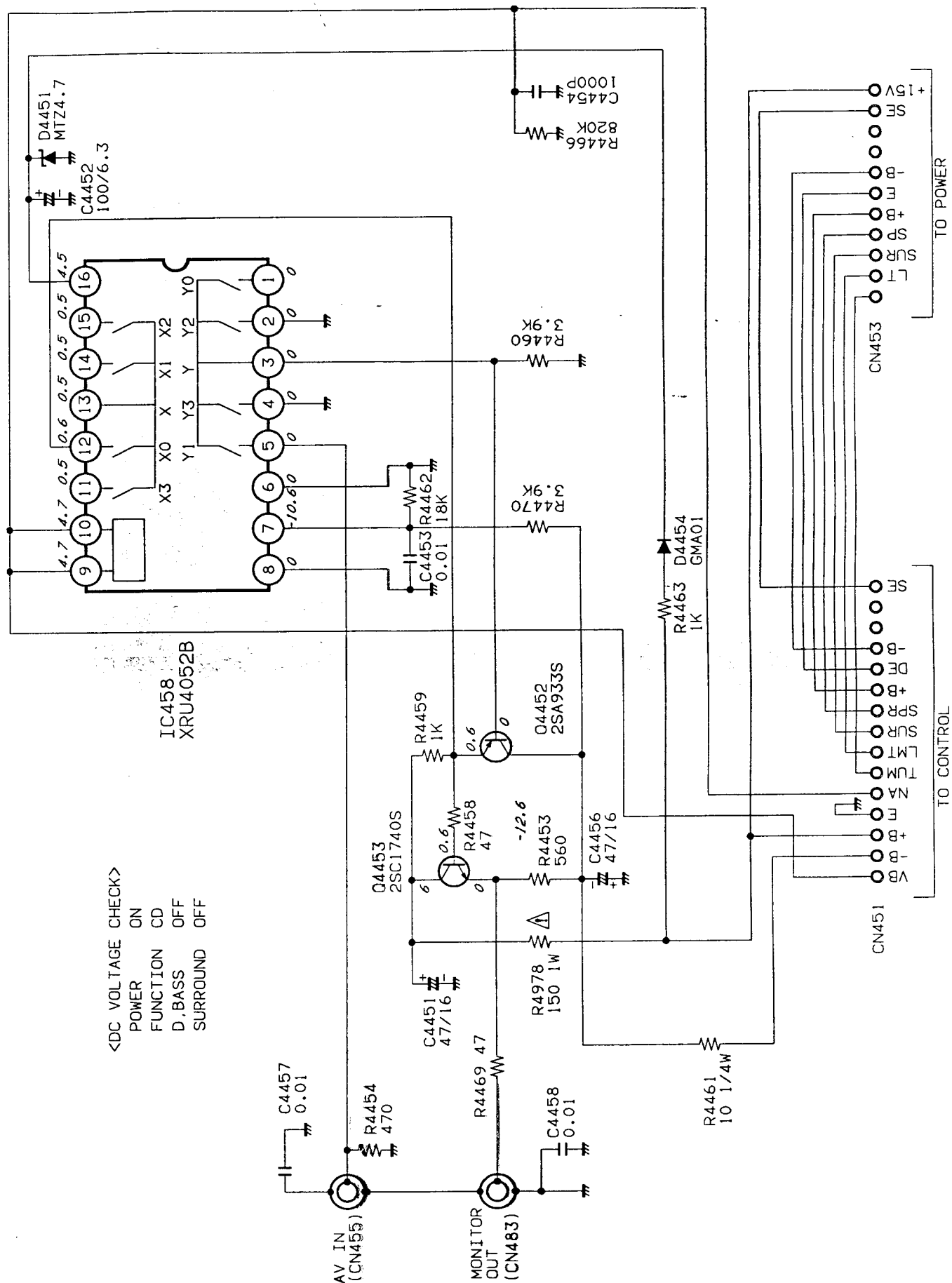
SCHEMATIC DIAGRAM (AMPLIFIER - POWER)



WIRING DIAGRAM (AMPLIFIER - POWER)



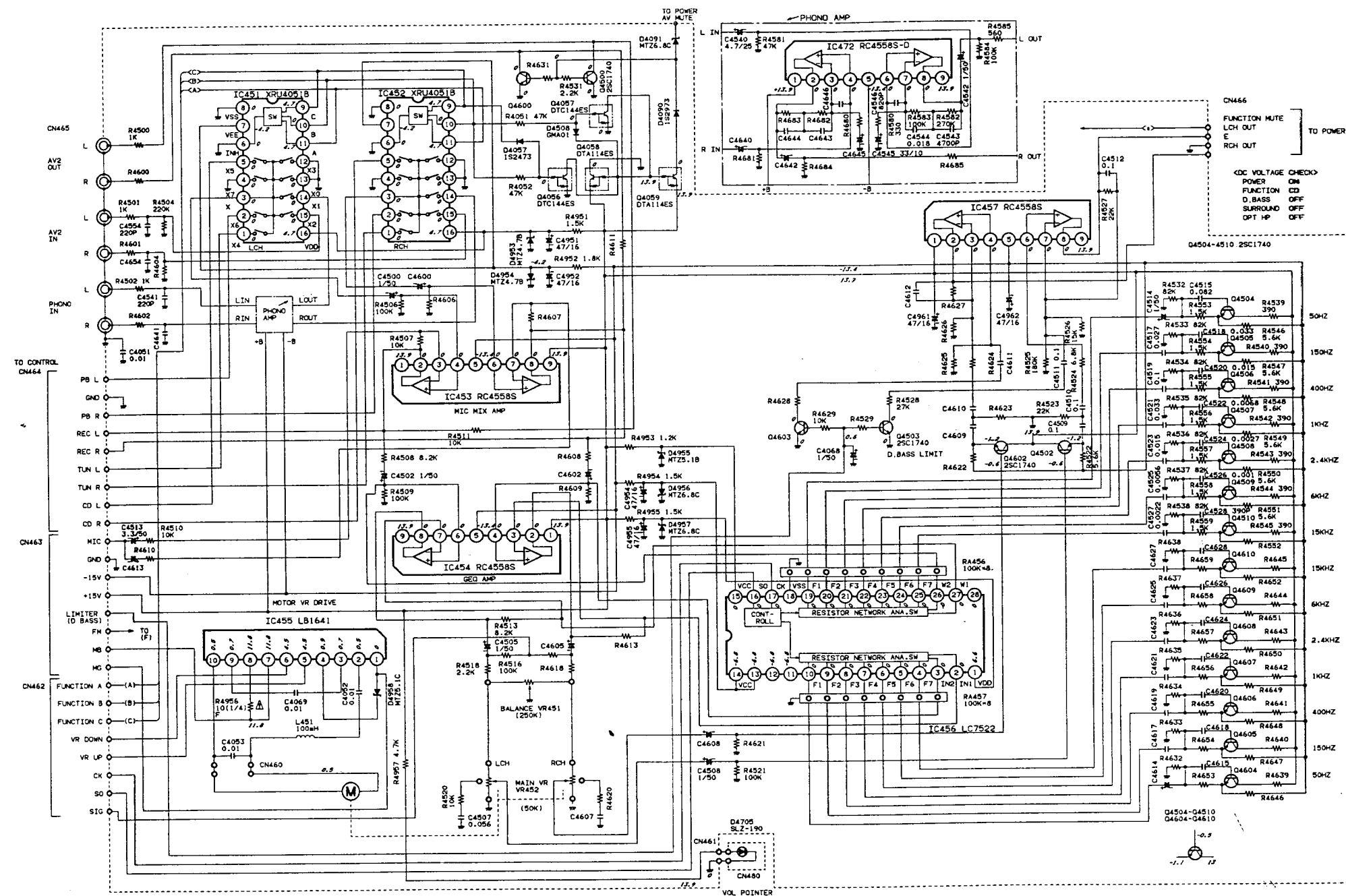
SCHEMATIC DIAGRAM (AMPLIFIER - VIDEO)



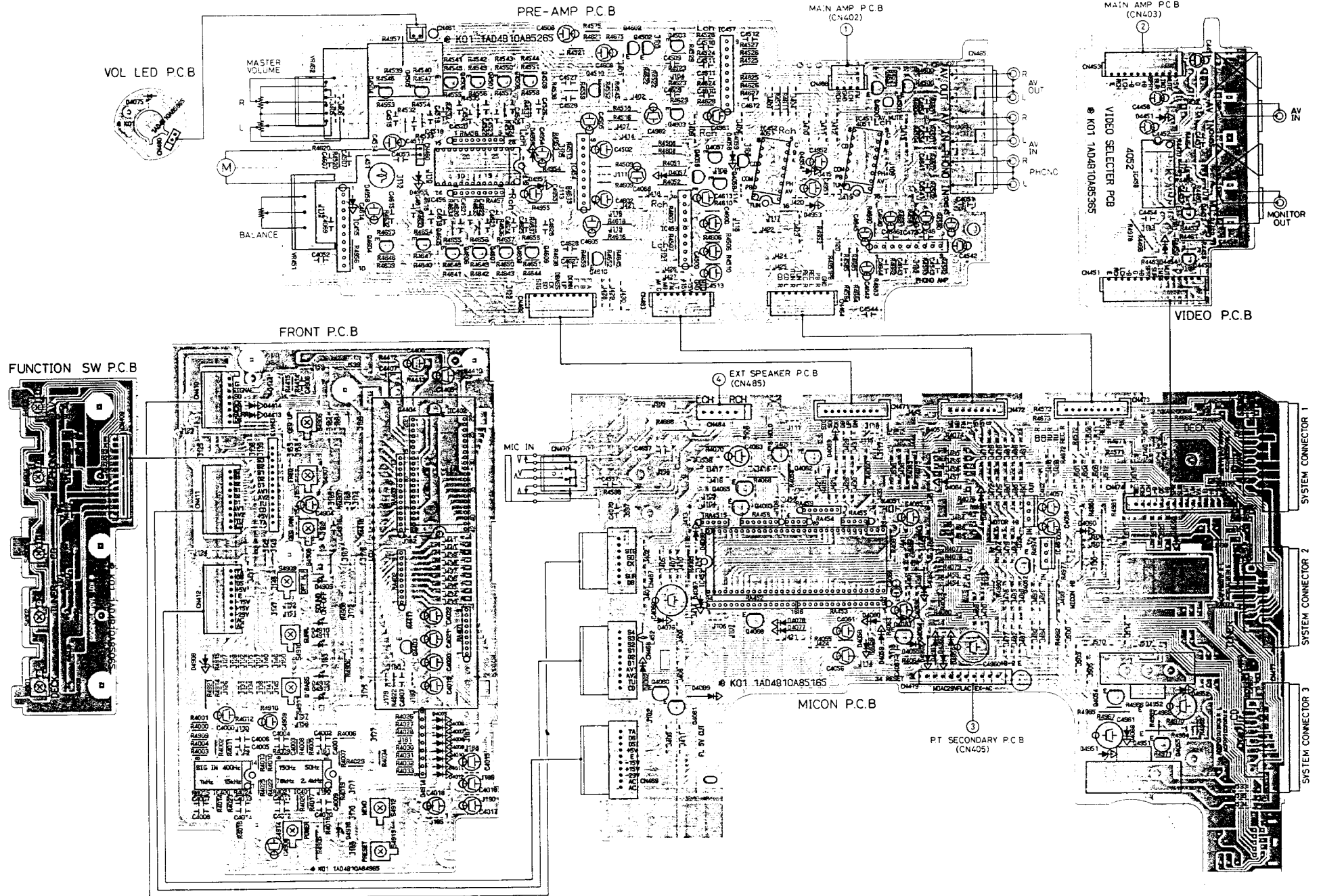
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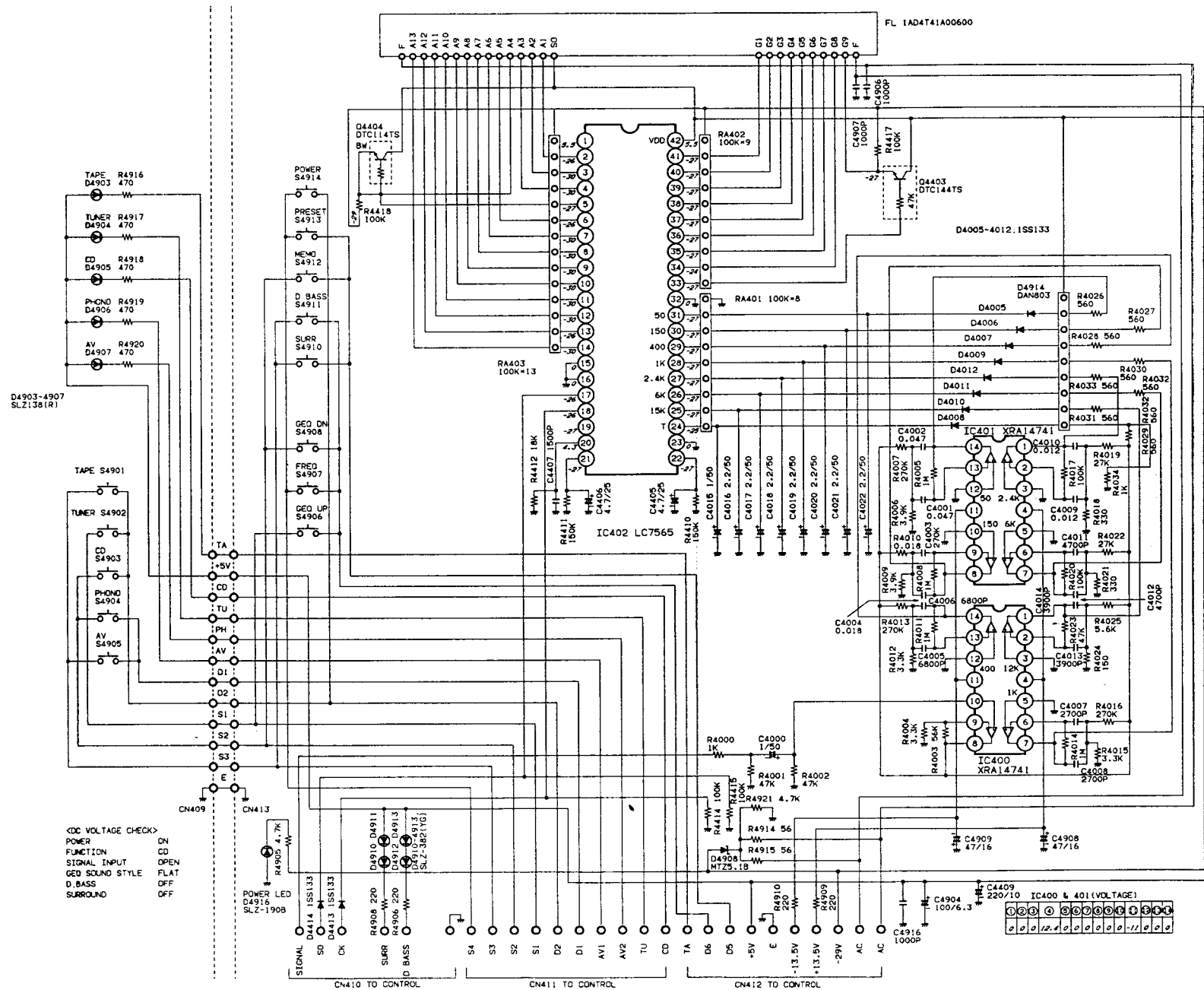


SYNOPSIS: SCHEMATIC DIAGRAM (AMPLIFIER - FUNCTION)



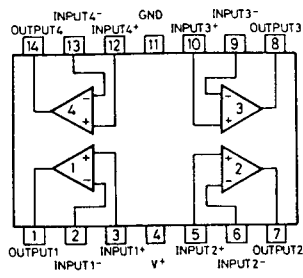
WIRING DIAGRAM (AMPLIFIER)



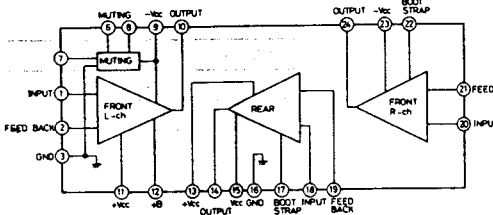


IC BLOCK DIAGRAM (AMPLIFIER)

IC400 - 401 XRA14741(Dual Operational Amplifier)



IC403 STK4152MK2(3-Channel AF Power Amplifier)

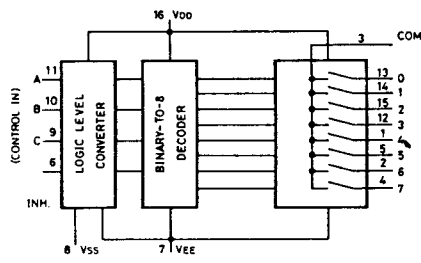


IC451 - 452 XRU4051B(Signal 8-Channel Multiplexer / DeMultiplexer)

TRUTH TABLE

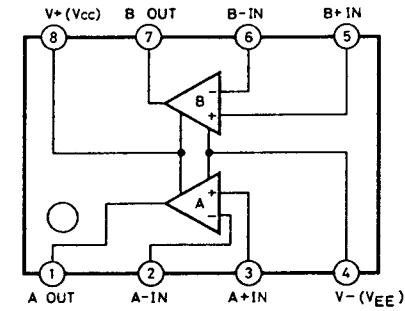
CONTROL INPUTS				"ON" CHANNEL			
INHIBIT	C	B	A	TC4051BP	TC4052BP	TC4053BP	
L	L	L	L	0	0X.0Y	0X.0Y.0Z	
L	L	L	H	1	1X.0Y	1X.0Y.0Z	
L	L	H	L	2	2X.2Y	0X.1Y.0Z	
L	L	H	H	3	3X.3Y	1X.1Y.0Z	
L	H	L	L	4	—	0X.0Y.1Z	
L	H	L	H	5	—	1X.0Y.1Z	
L	H	H	L	6	—	0X.1Y.1Z	
L	H	H	H	7	—	1X.1Y.1Z	
H	*	*	*	NONE	NONE	NONE	

* Don't care. Δ Except TC4052BP

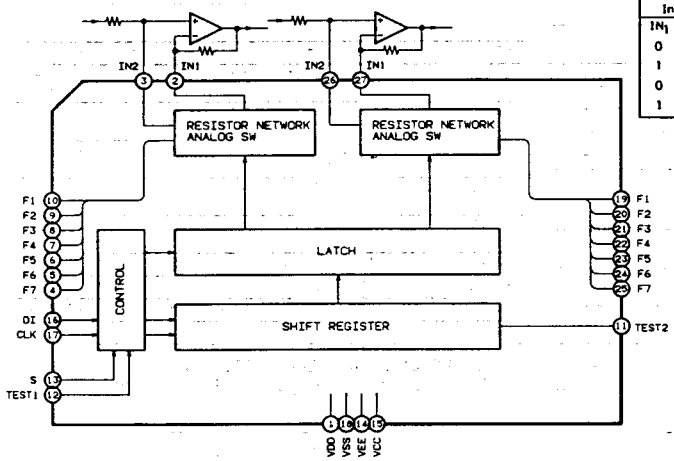


IC BLOCK DIAGRAM (AMPLIFIER)

IC453 - 454 RC4558S-D(Dual Operational Amplifier)
IC457 - 472

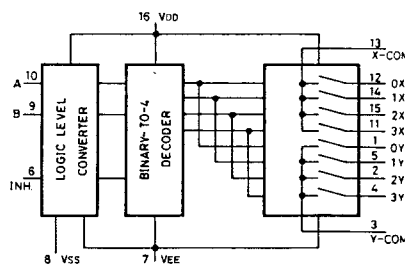


IC456 LC7522(7-Segment Graphic Equalizer Variable Resistor)

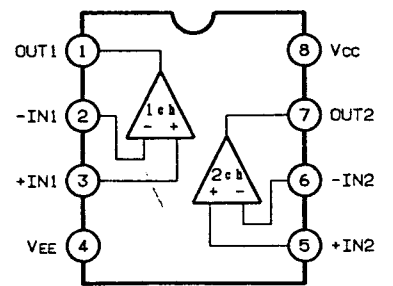


Input		Output		Action
IN1	IN2	OUT1	OUT2	
0	0	0	0	Brake
1	0	-1	0	Normal(Reverse)Rotary
0	1	0	1	Reverse(Normal)Rotary
1	1	0	0	Brake

IC458 XRU4052B(Deferential Multiplexer / DeMultiplexer)



IC460 XRA4558(Dual Operational Amplifier)



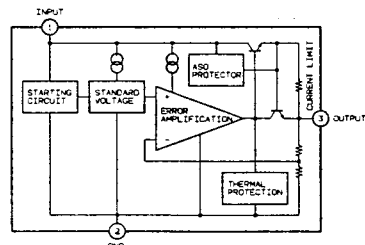
LOCK DIAGRAM (AMPLIFIER)

C66506B-4582(4 Bit Micro Processor)

PIN NAME	DESCRIPTION	HIGH	LOW
MOTOR	Motor Output for Headphone		Rotate
D	Output for LC7565,LC7522 Serial Data	Trans mit	
CLK	CLK Output for LC7565,LC7522 Serial Data	Trans mit	
	Remote Control Input		IN
DOWN	ON/OFF Input of Power Source from TUNER	ON	OFF
	Select Input of Remote Control Decord Cord		Trans mit
2	Select Input of Remote Control Decord Cord		Trans mit
OLD	Detected Input for Power Failure	Normal	Power Failure
051A	Select Output of IC4051 Audio Signal	1	0
051B	Select Output of IC4051 Audio Signal	1	0
051C	Select Output of IC4051 Audio Signal	1	0
UPPOWER	ON/OFF Output of Power Source to Tuner		OUT
5	Select Input of Remote Control Decord Cord	Trans mit	
3	Select Input of Remote Control Decord Cord		Trans mit
U.A.F	Input of TUNER Function	IN	
D.CONT	Input of CD TIMER Control	IN	
D.A.F	Input of CD Function	IN	
4	Select Input of Display Device		Trans mit
A.A.F	Input of TAPE DECK Function		IN
OWER	Input of Proceesion on Power Failure to TAPE DECK		IN
PHONE	Select Output of HEADPHONE & Output of Indication LED		ON
SURROUND	Select Output of SURROUND & Output of Indication LED		ON
'bass	Select Output of D'BASS & Output of Indication LED		ON
	Not Used		
OLUP	Motor Output for the Volume		OUT
OLDOWN	Motor Output for the Volume		OUT
052A	Select Output of IC4052 Video Signal	1	0
052B	Select Output of IC4052 Video Signal	1	0
	Not Used		
EST	To Earth		
SS	To Earth		
OSC1	CR Oscillation(4.19MHz)		
OSC2	CR Oscillation(4.19MHz)		
ES	Input of RESET	Normal	RESET
DIG5	Input of Key(Digit Output)		OUT
DIG6	Input of Key(Digit Output)		OUT
DIG7	Not Used		

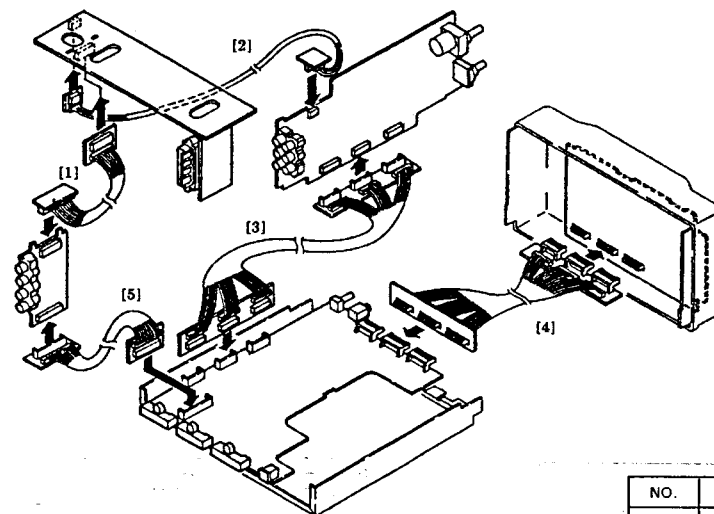
PIN	PIN NAME	DESCRIPTION	HIGH	LOW
38	TAPE	Output of Indication LED of TAPE Function		Light Up
39	CD	Output of Indication LED of CD Function		Light Up
40	TUNER	Output of Indication LED of CD Function		Light Up
41		Not Used		
42	AV2	Output of Indication LED of AV2 Function		Light Up
43	AV1	Output of Indication LED of AV1 Function		Light Up
44		Not Used		
45		Not Used		
46	DIG1	Input of Key(Digit output)		OUT
47	DIG2	Input of Key(Digit output)		OUT
48	DIG3	Not Used		
49	DIG4	Not Used		
50	SEG1	Input of Key Segment		IN
51	SEG2	Input of Key Segment		IN
52	SEG3	Input of Key Segment		IN
53	SEG4	Input of Key Segment		IN
54	T.CONT	Control Input of TAPE DECK TIMER	REC	PLAY
55		Not Used		
56	S5	Select Input of Remote Control Decord Cord		Trans mit
57	SPRELAY	ON/OFF Output of Speaker Relay	ON	OFF
58	T.CSTOP	CSTOP Output of TAPE DECK (System Movement)		OUT
59	CD.CSTOP	CSTOP Output of CD (System Movement)		OUT
60	RELAY	ON/OFF Output of POWER Control	ON	OFF
61	∞DB	MUTE Output of ∞	OFF	ON
62	-20DB	MUTE Output of -20dB	OFF	ON
63	R MOTOR	Motor Output for Headphone		Rotate
64	VDD	VDD + 5V		

IC461 RC78M05FA / IC462 RC7812FA
(3-Terminal Voltage Regulated Power Supply)



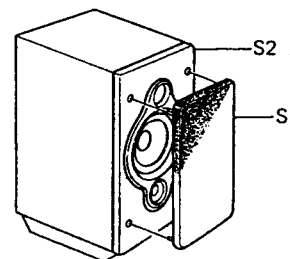
TOOL FOR REPAIRABLE

Please use the tools(PCB relay cord) for repairable.



NO.	PART CODE
1	614 231 2568
2	614 231 2544
3	614 231 2537
4	614 231 2520
5	614 231 2551

EXPLODED VIEW & PARTS LIST



PACKING & ACCESSORIES(SX-T55)

REF.NO.	PART NO.	DESCRIPTION
	614 230 5850	INNER CARTON,SPEAKER
	614 228 9815	PAD,SPEAKER
	614 176 9820	INNER POLYE LAMINA COVER,PROTECT SP
	614 176 2173	INNER POLYE COVER,ACCESSARY
	614 226 4041	WIRE,SPEAKER LEAD 1.5MX2

CABINET & CHASSIS(SX-T55)

REF.NO.	PART NO.	DESCRIPTION
S1	614 227 9496	ASSY.GRILLE
S2	614 230 5584	ASSY.CABINET,SPEAKER

SANYO

SANYO Electric Co., Ltd.
Osaka, Japan