

AKAI

MODEL MX-550
(TP-550, AX-550, CD-650)

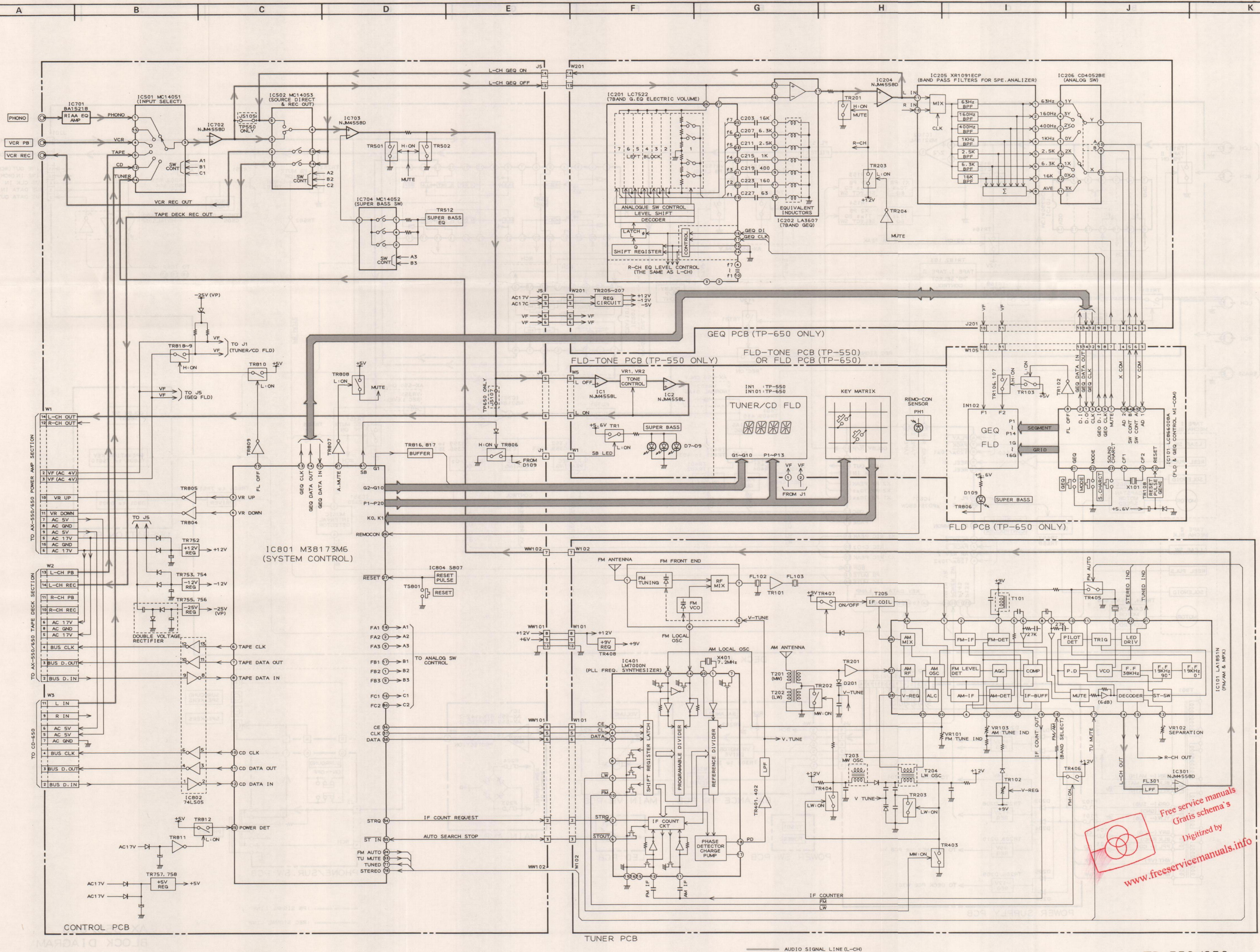
MODEL MX-650
(TP-650, AX-650, CD-650)

SCHEMATIC DIAGRAMS AND PC BOARDS

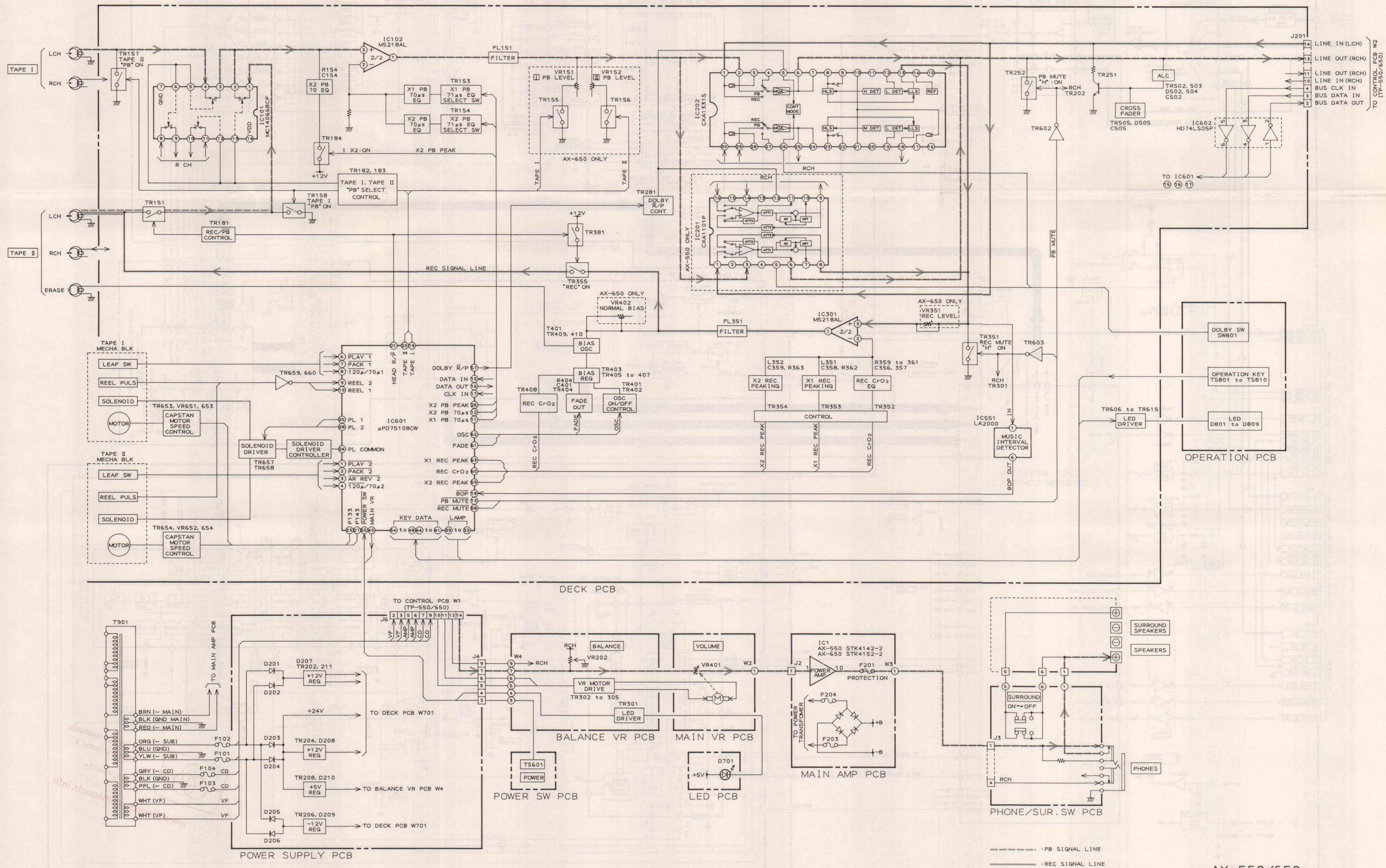
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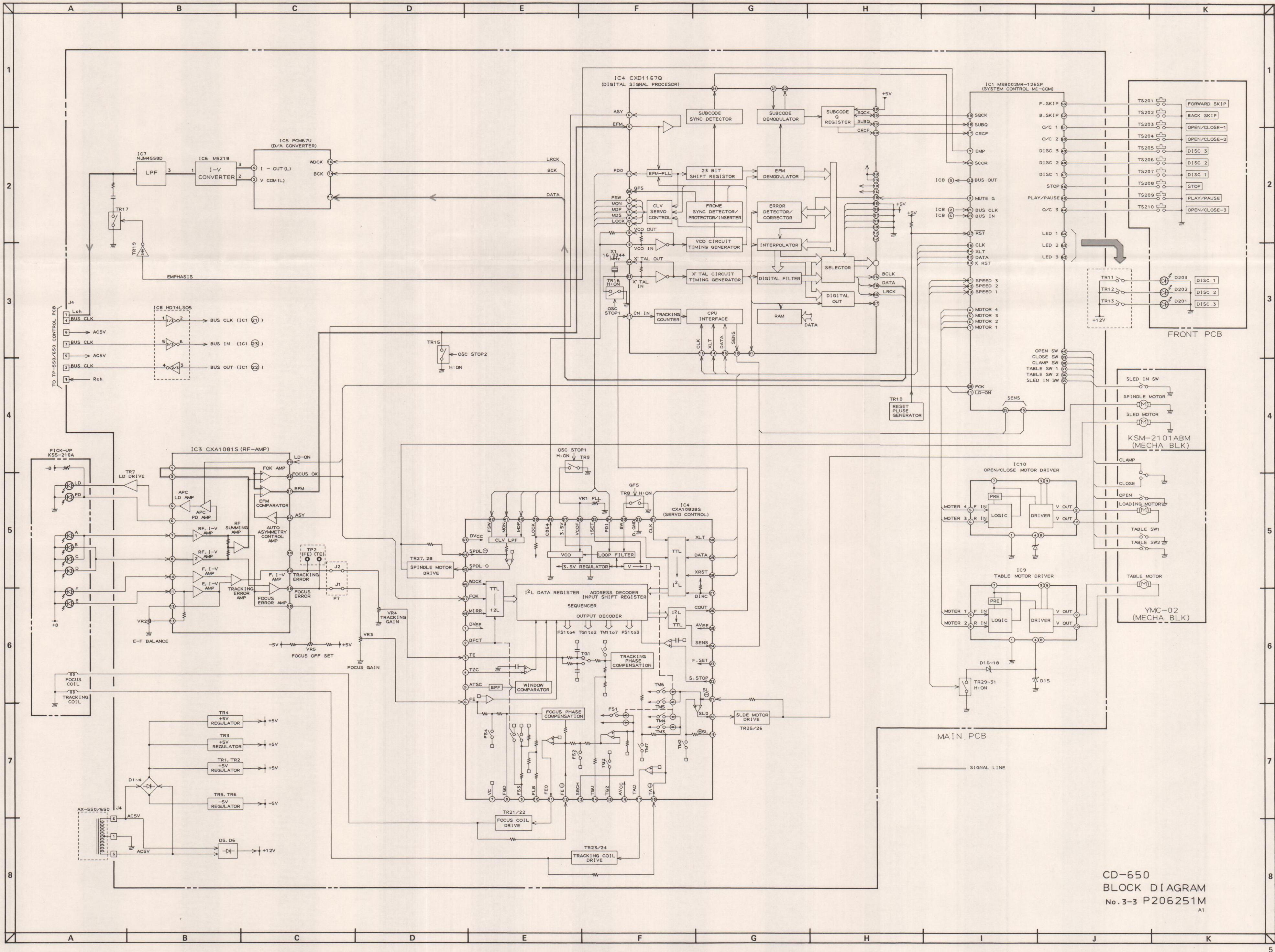
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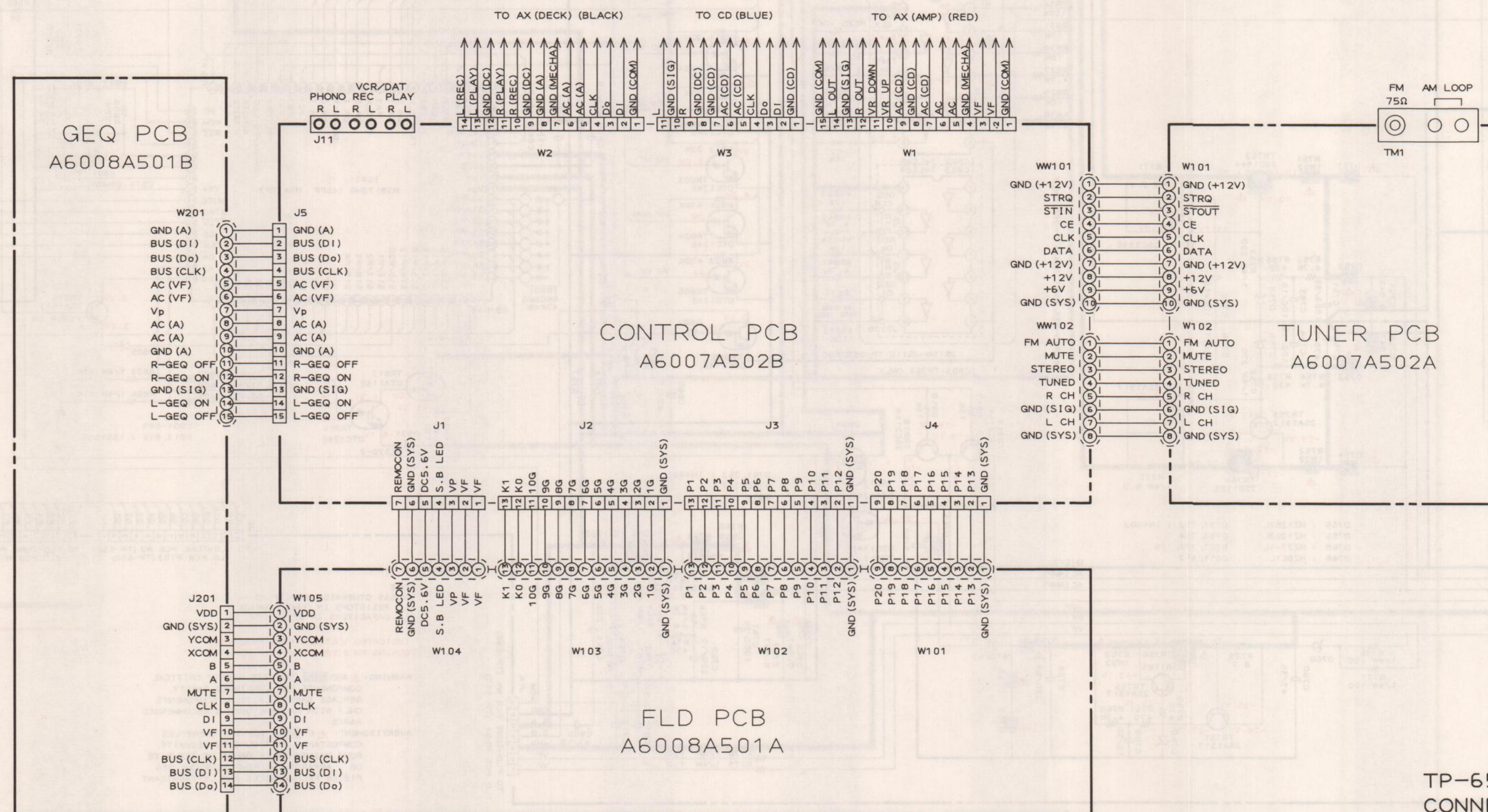
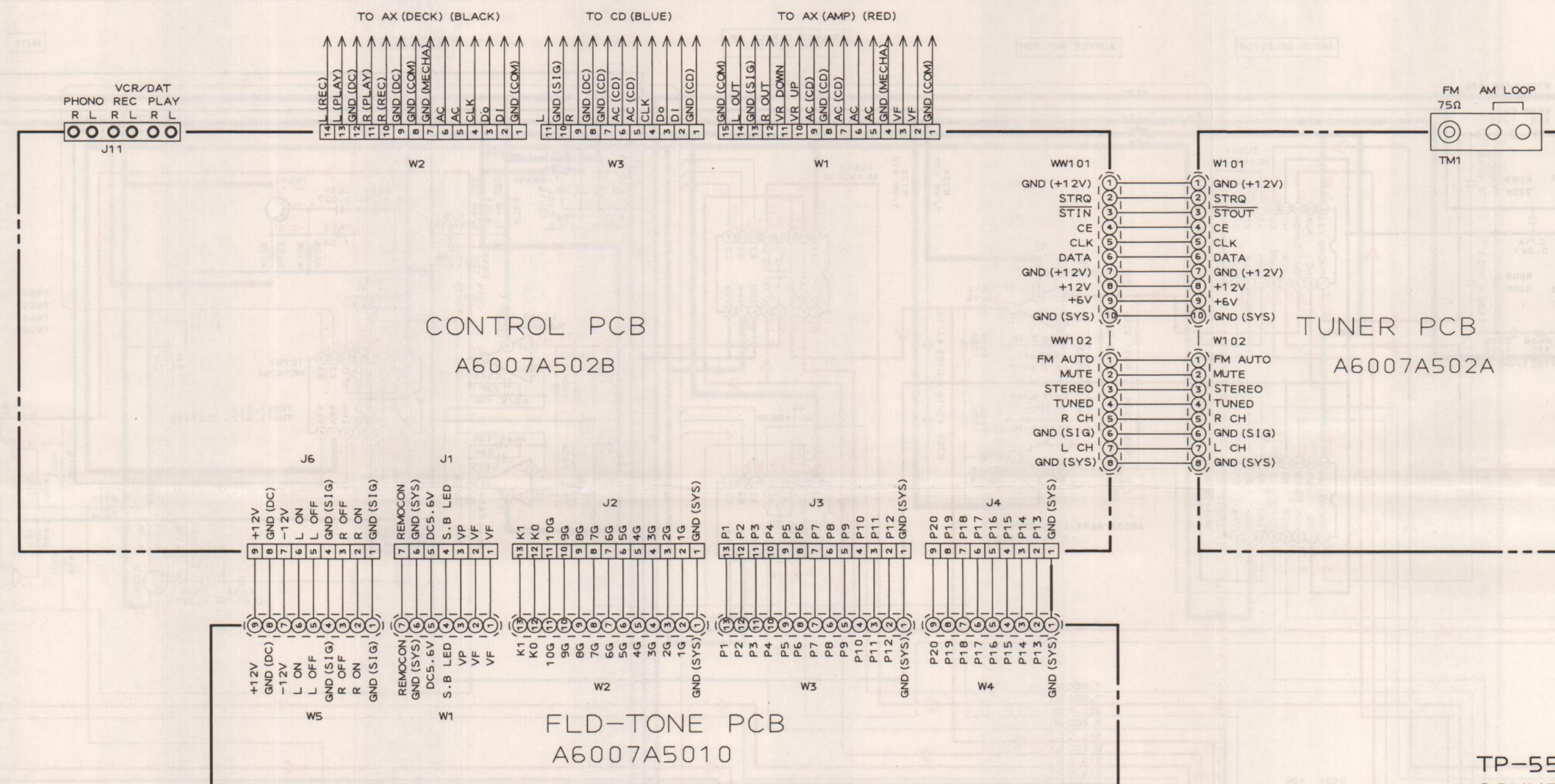
Use these schematic diagrams and PC boards together with the provided service manual.

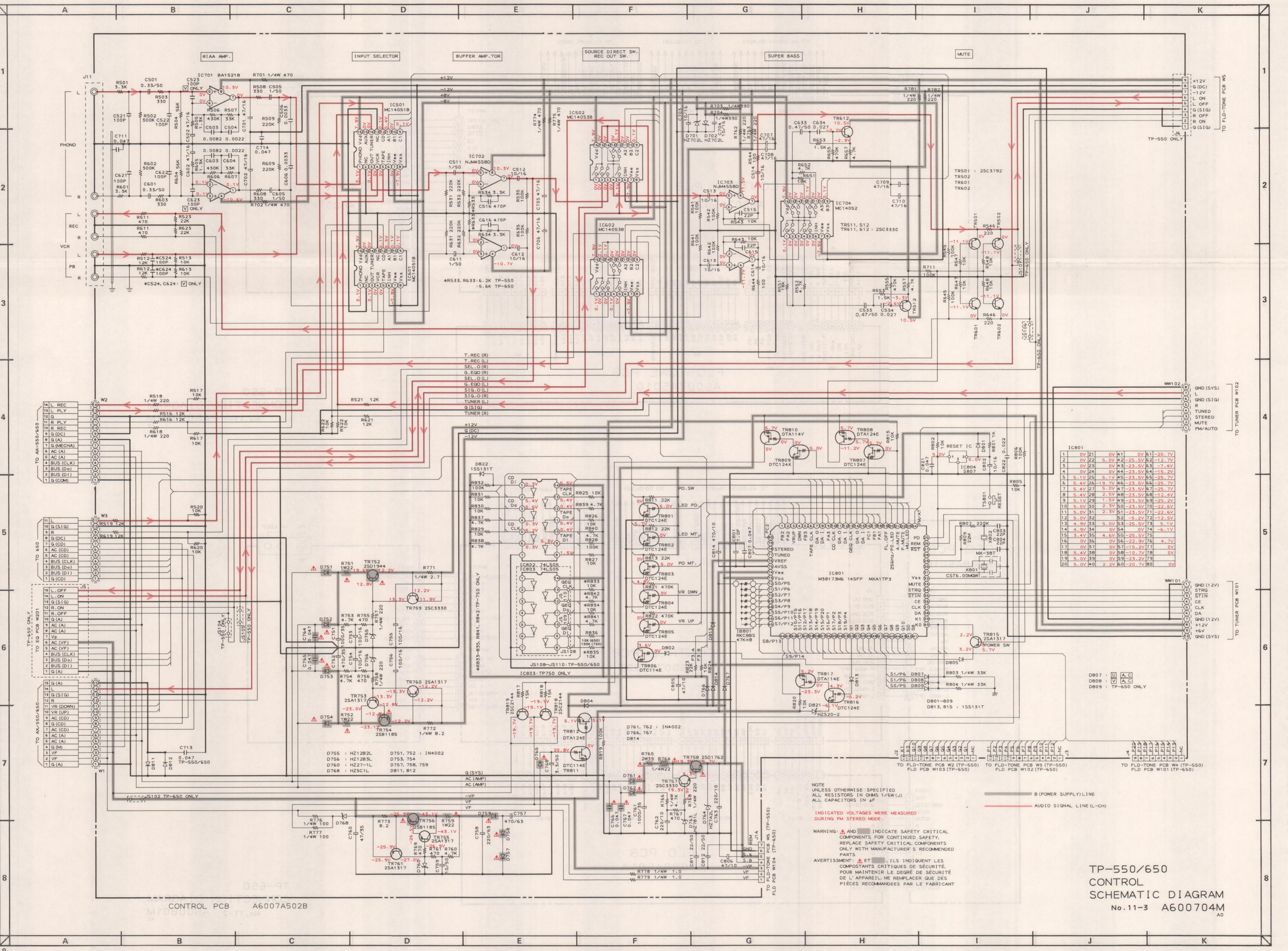


Free service manuals
Gratis schema's
Digitized by
www.freeservicemanuals.info



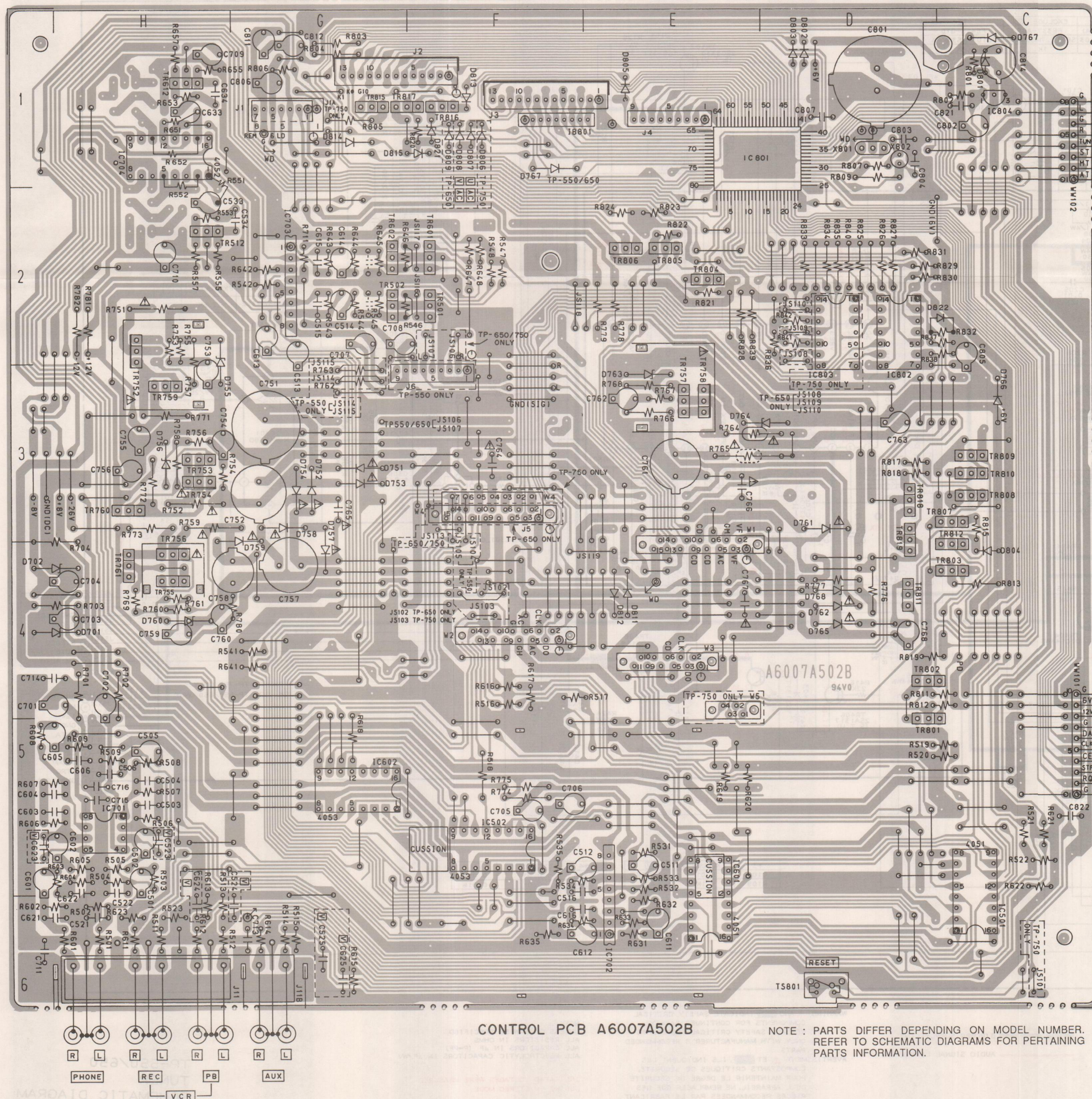






CONTROL PCB A6007A502B

TP-550/650
CONTROL
SCHEMATIC DIAGRAM
No. 11-3 A600704M
A0



PRINCIPAL PARTS LOCATION

ICs		
IC101	B2,3	TR753..... H3
IC301	B1	TR754..... H3
IC401	B4,5	TR755..... H4
IC501	C5,6	TR756..... H4
IC502	F5	TR757..... E3
IC601	E5,6	TR758..... E3
IC602	G5	TR759..... H3
IC701	H5	TR760..... H3
IC702	E5,6	TR761..... H4
IC703	G2	TR801..... D5
IC704	H1	TR802..... D4
IC801	D,E1	TR803..... C4
IC801A	D,E1	TR804..... E2
IC802	D2,3	TR805..... E2
IC803	D2,3	TR806..... E2
IC804	C1	TR807..... C3
		TR808..... C3
		TR809..... C3
		TR810..... C3
		TR811..... D4
		TR812..... C4
		TR815..... G1
		TR816..... F1
		TR817..... F,G1
		TR818..... D3
		TR819..... D3,4
TRANSISTORS		
TR101	B3	
TR201	A3	
TR202	A4	
TR203	A3	
TR401	B5	
TR402	B5,6	
TR403	B4	
TR404	B4	
TR405	B2	
TR406	A4	
TR407	A4	
TR408	B4	
TR501	F2	
TR502	G2	
TR512	H2	
TR601	F2	
TR602	G2	
TR612	H1	
TR752	H2	
CONNECTORS		
J1,J1A	G1	
J2	F,G1	
J3	E,F1	
J4	E1	
J5	F3	
J6	F,G3	
J11,11A,B,C	G,H6	
J101	B3	

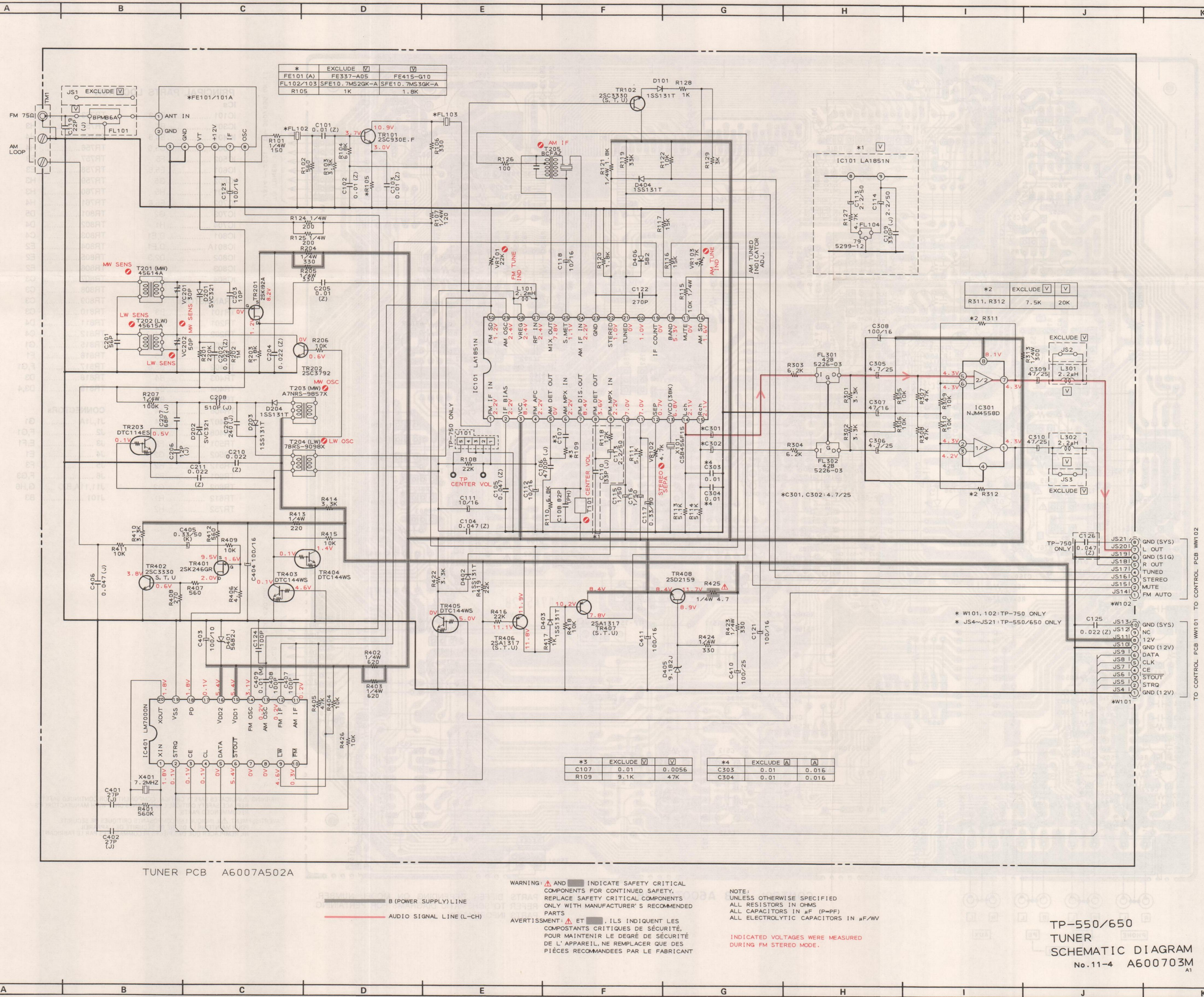
TO TUNER PCB
(JS14~JS21 : TP-550/650 ONLY)

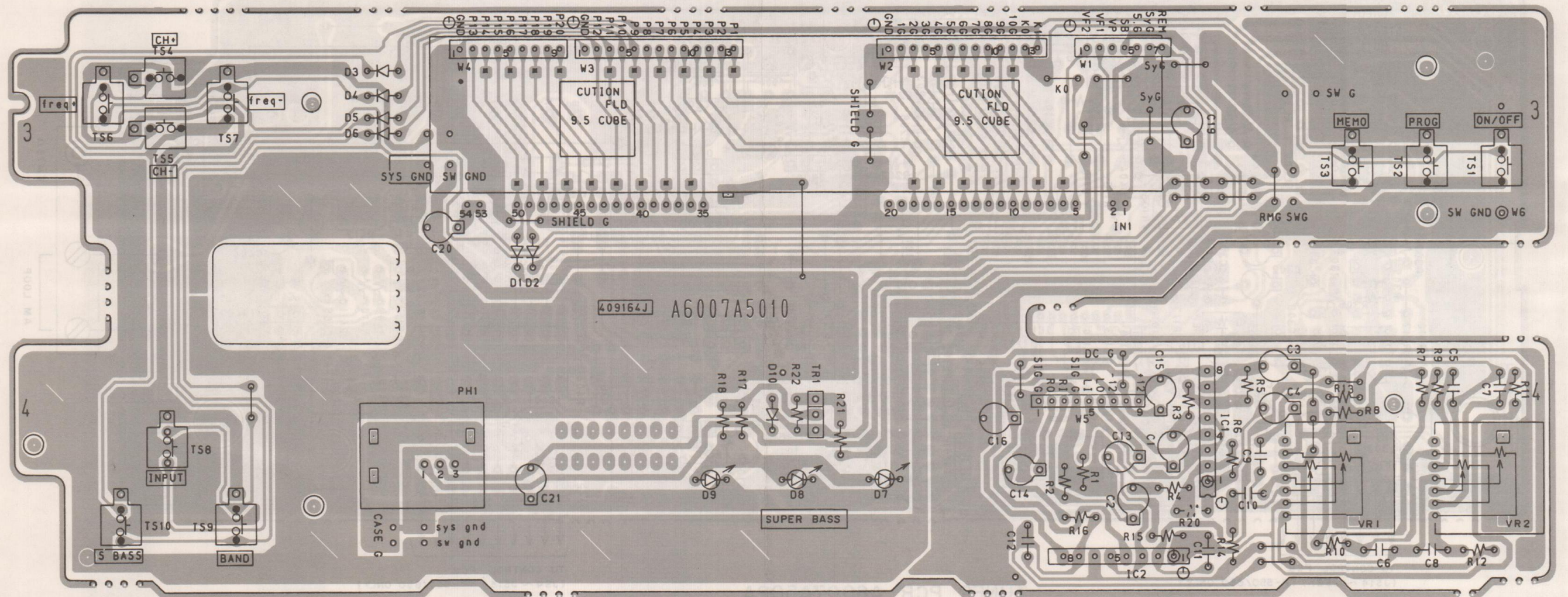
TO TUNER PCB
(JS4~JS13 : TP-550/650 ONLY)

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
 AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

CONTROL PCB A6007A502B

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.





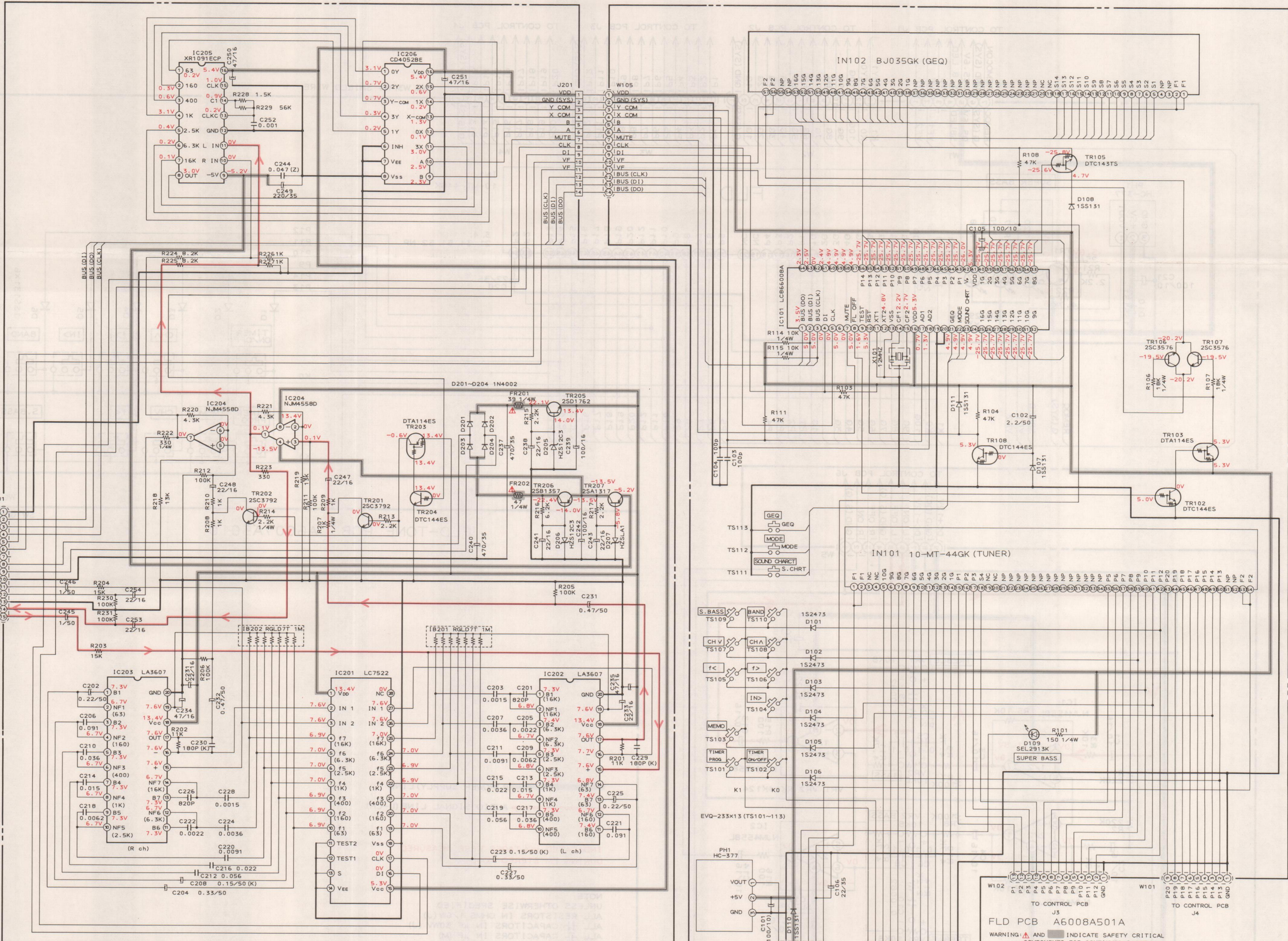
FLD - TONE PCB A6007A5010

TREBLE BASS

NOTE: PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING
PARTS INFORMATION.

WARNING: INDICATES SAFETY CRITICAL COMPONENTS FOR CORRECT SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS.
AVERTISSEMENT: Δ INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE NIVEAU DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACEZ QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

TO CONTROL PCB J5



GEQ PCB A6008A501B

INDICATED VOLTAGES WERE MEASURED WHEN NO SIGNAL WAS BEING INPUT.

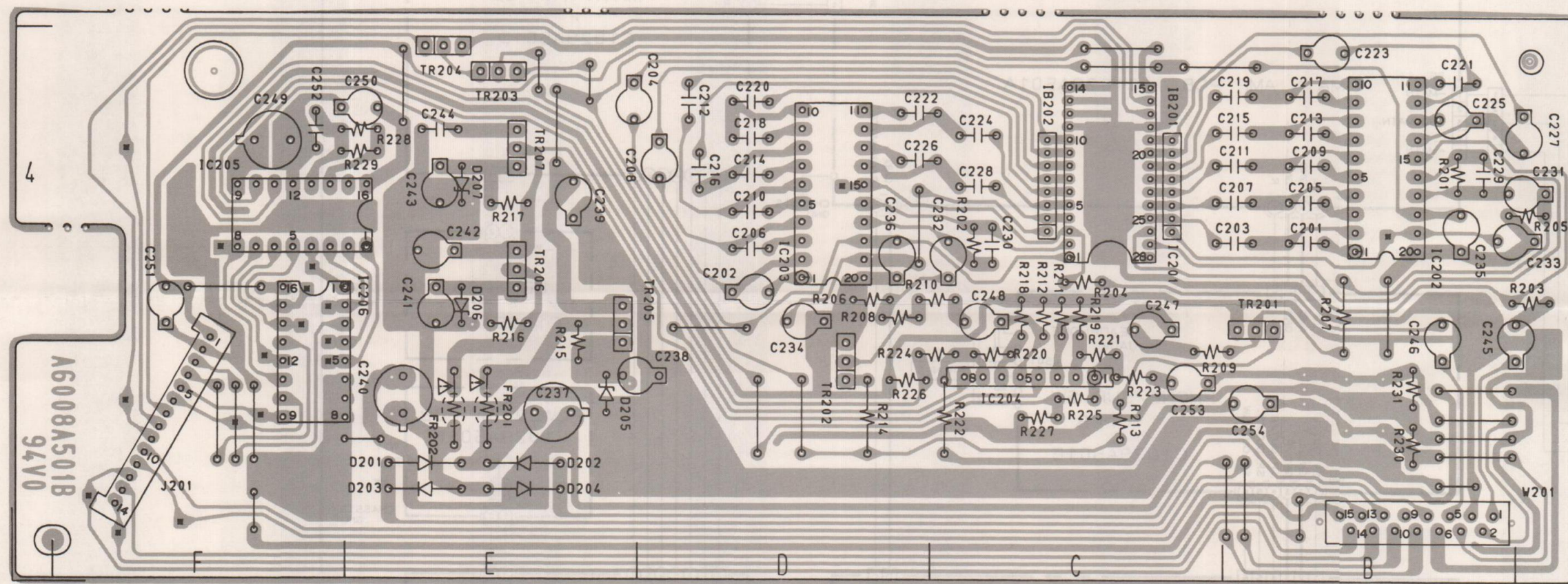
— B (POWER SUPPLY) LINE
— AUDIO SIGNAL LINE (L-CH)

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN μ F 50V (J)
ALL CAPACITORS IN μ F (M)

FLD PCB A6008A501A

WARNING: Δ AND $\square$ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: Δ ET $\square$ ILS INDICENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

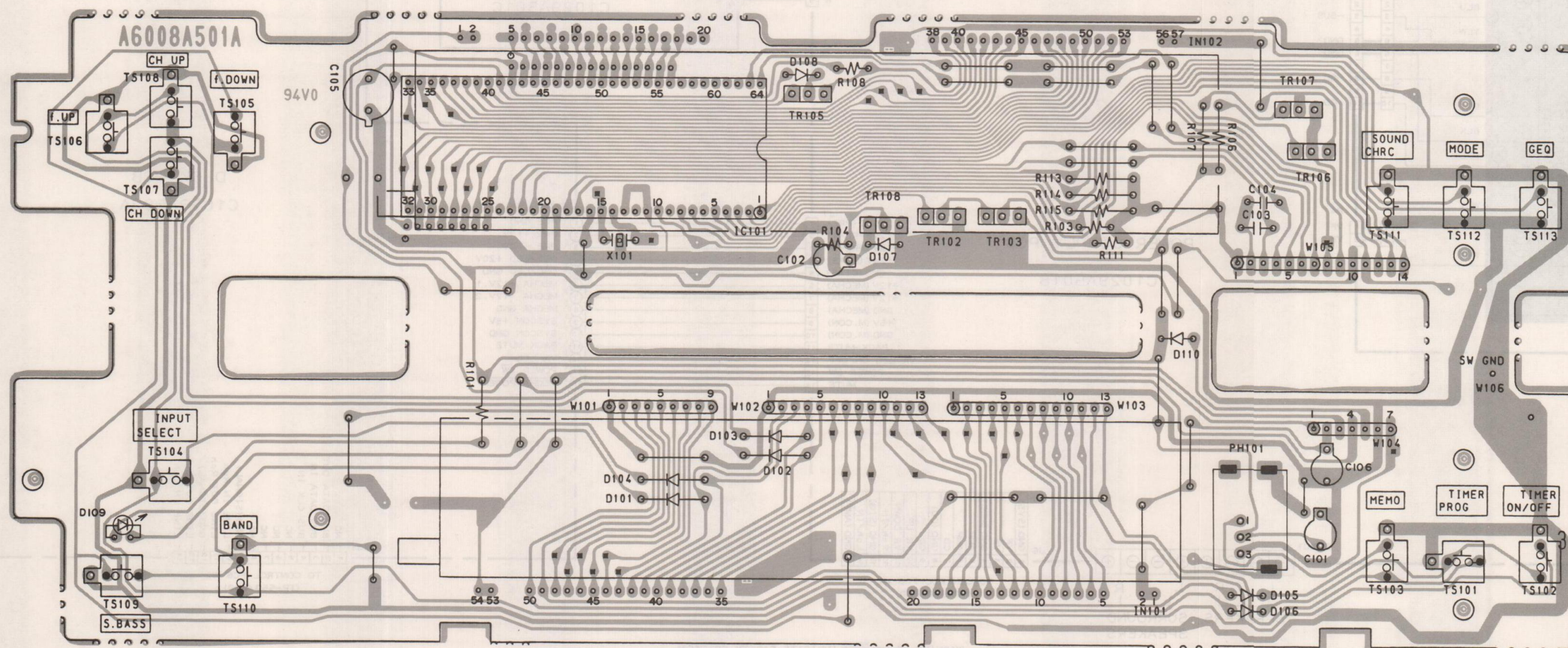
TP-650
FLD & GEQ
SCHEMATIC DIAGRAM
No. 11-6 A600802M
A1



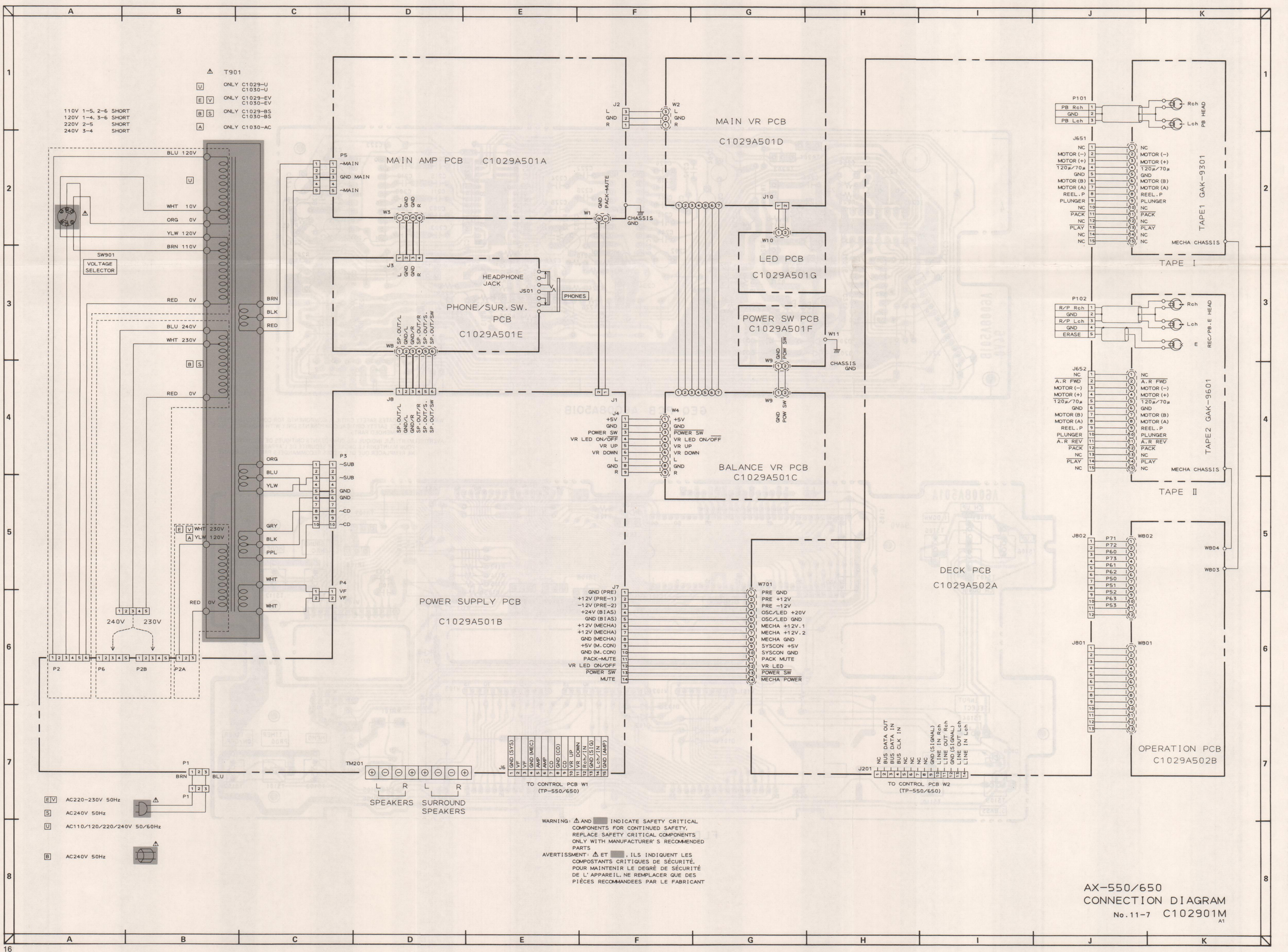
GEQ PCB A6008A501B

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.



FLD PCB A6008A501A



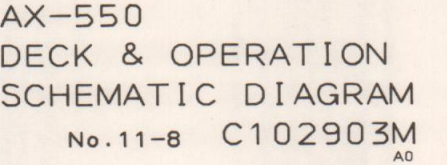
110V 1-5, 2-6 SHORT
120V 1-4, 3-6 SHORT
220V 2-5 SHORT
240V 3-4 SHORT

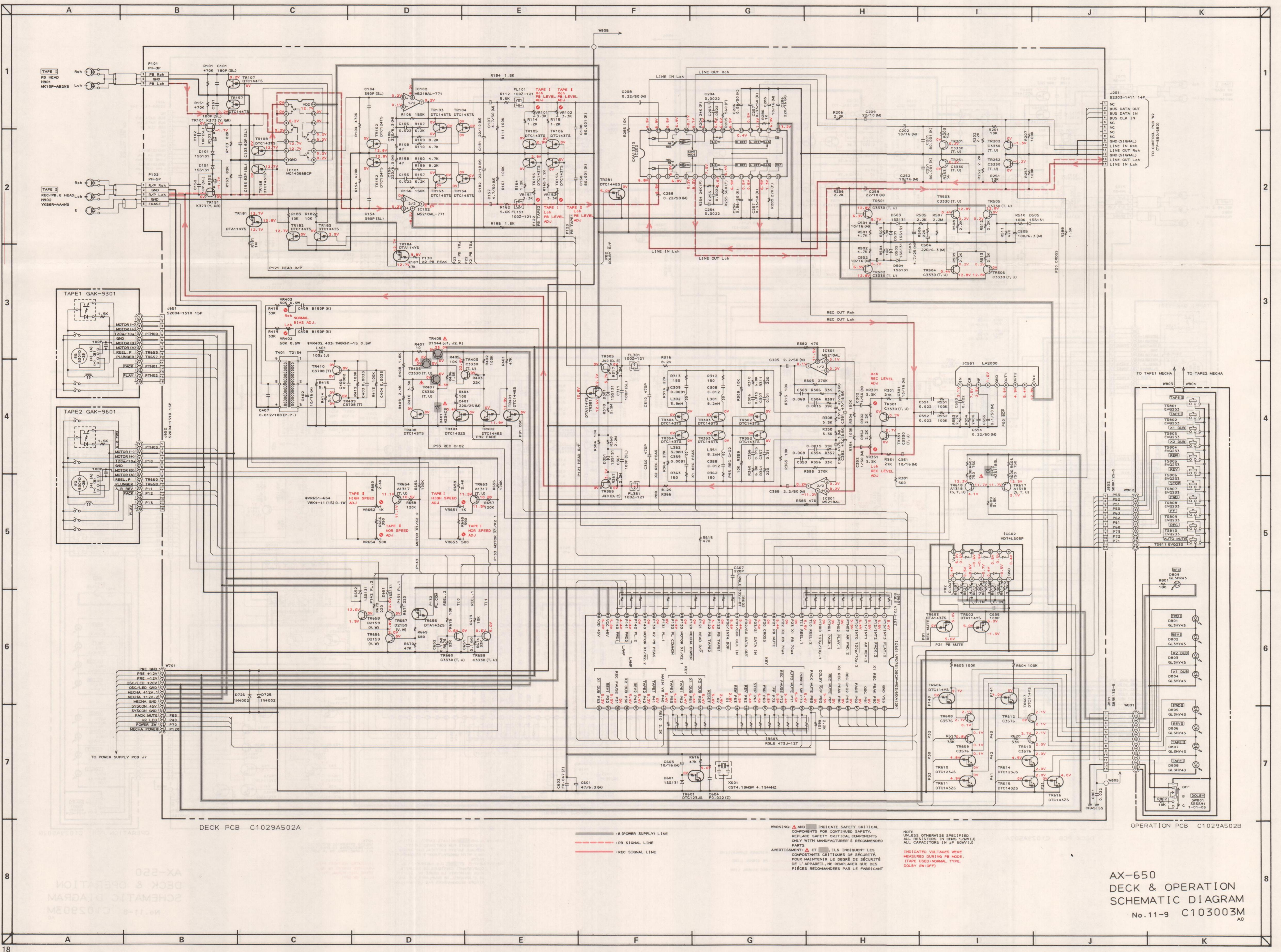
- △ T901
- U ONLY C1029-U
C1030-U
- E V ONLY C1029-EV
C1030-EV
- B S ONLY C1029-B5
C1030-B5
- A ONLY C1030-AC

WARNING: △ AND ■ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: △ ET ■, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

AX-550/650
CONNECTION DIAGRAM
No.11-7 C102901M
A1





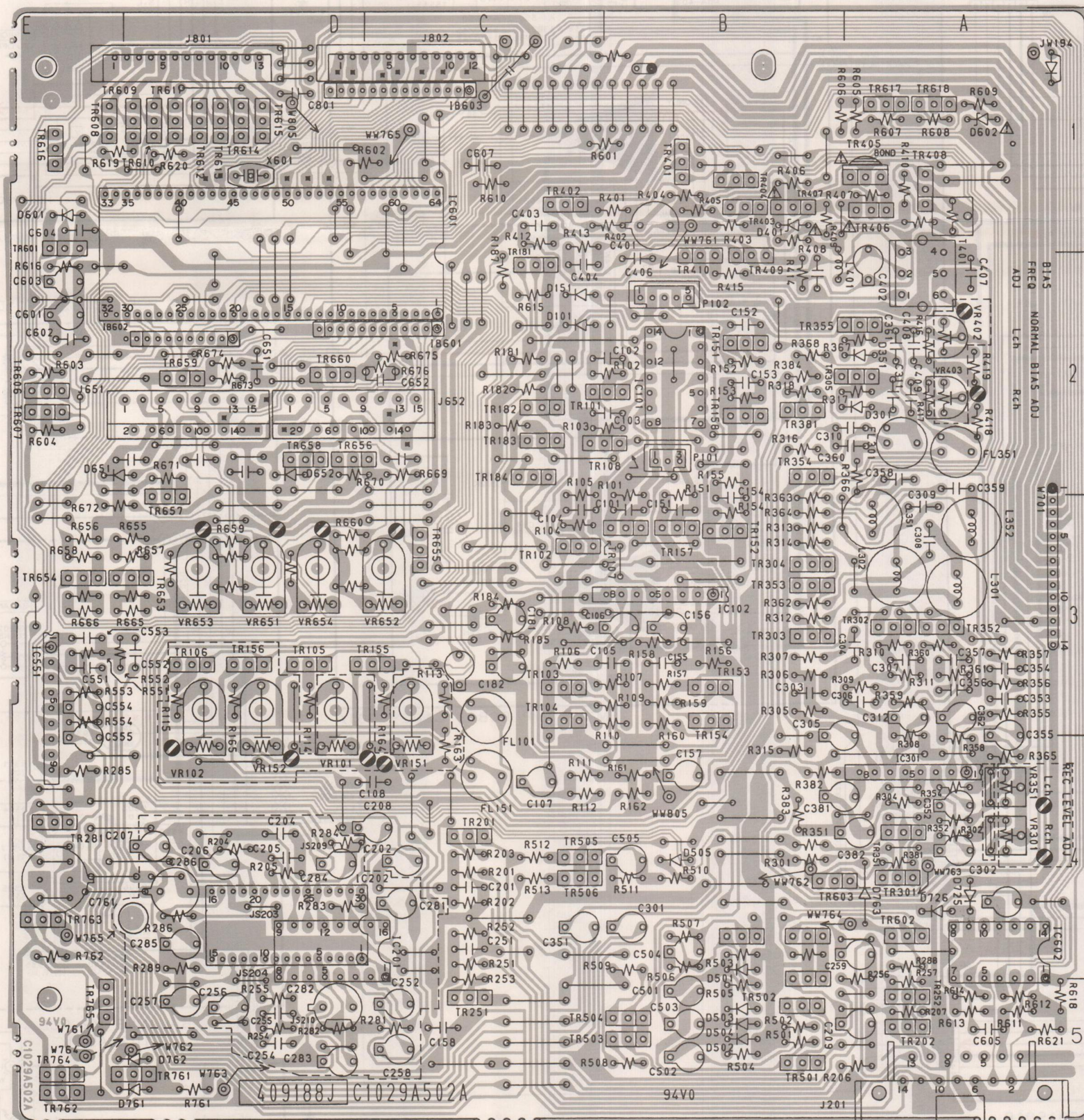
DECK PCB C1029A502A

OPERATION PCB C1029A502B

— PB (POWER SUPPLY) LINE
— PB SIGNAL LINE
— REC SIGNAL LINE

WARNING: **Δ** AND **■** INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: **Δ** ET **■** INDICENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

NOTE: UNLESS OTHERWISE SPECIFIED, ALL RESISTORS IN OHMS (1.5W/1/2W). ALL CAPACITORS IN μF (50V/50V).
INDICATED VOLTAGES WERE MEASURED DURING PB MODE. (TAPE USED) NORMAL TYPE, DOLBY B (OFF).



DECK PCB CIO29A502A

PRINCIPAL PARTS LOCATION

ICs

IC101	B2
IC102	B3
IC201	C,D4
IC202	D4
IC301	A4
IC551	E3
IC601	D1,2
IC602	A4

WIRES

W701	A3
J651	D2
J652	C,D2
J801	D1
J802	C1

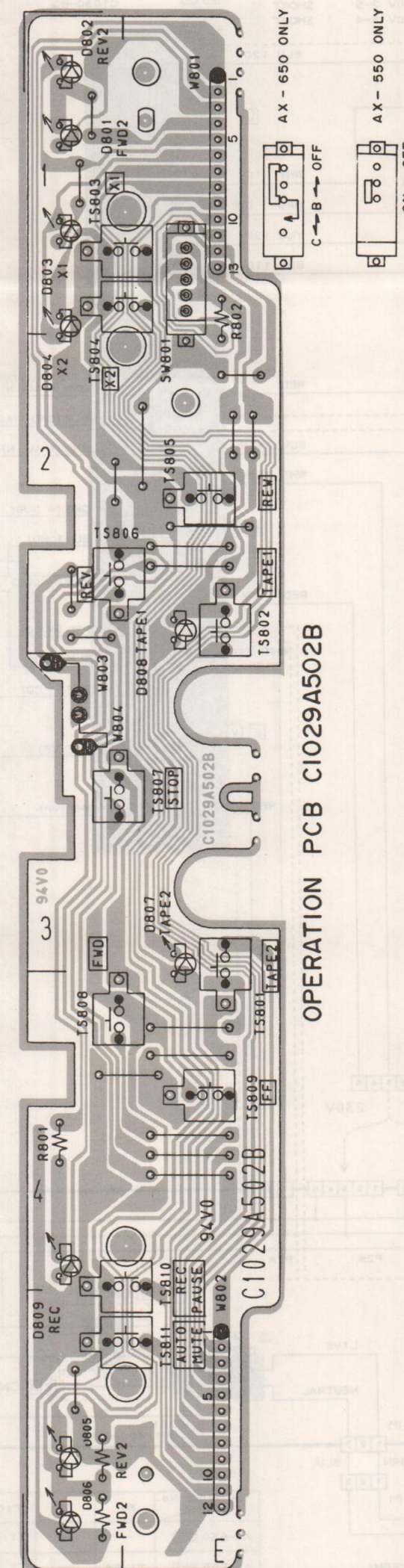
CONNECTORS

P101	B2
P102	B2

TRANSISTORS

TR101	B,C2
TR102	C3
TR103	C3
TR104	C3
TR105	D3
TR106	D3
TR107	B,C3
TR108	B,C2
TR151	B2
TR152	B3
TR153	B3
TR154	B3
TR155	C,B3
TR156	D3
TR157	B3
TR158	B2
TR181	C2
TR182	C2
TR183	C2
TR184	C2
TR201	C4
TR202	A5
TR251	C5
TR252	A5
TR281	E4
TR301	A4
TR302	A3
TR303	B3
TR304	B3
TR305	A,B2

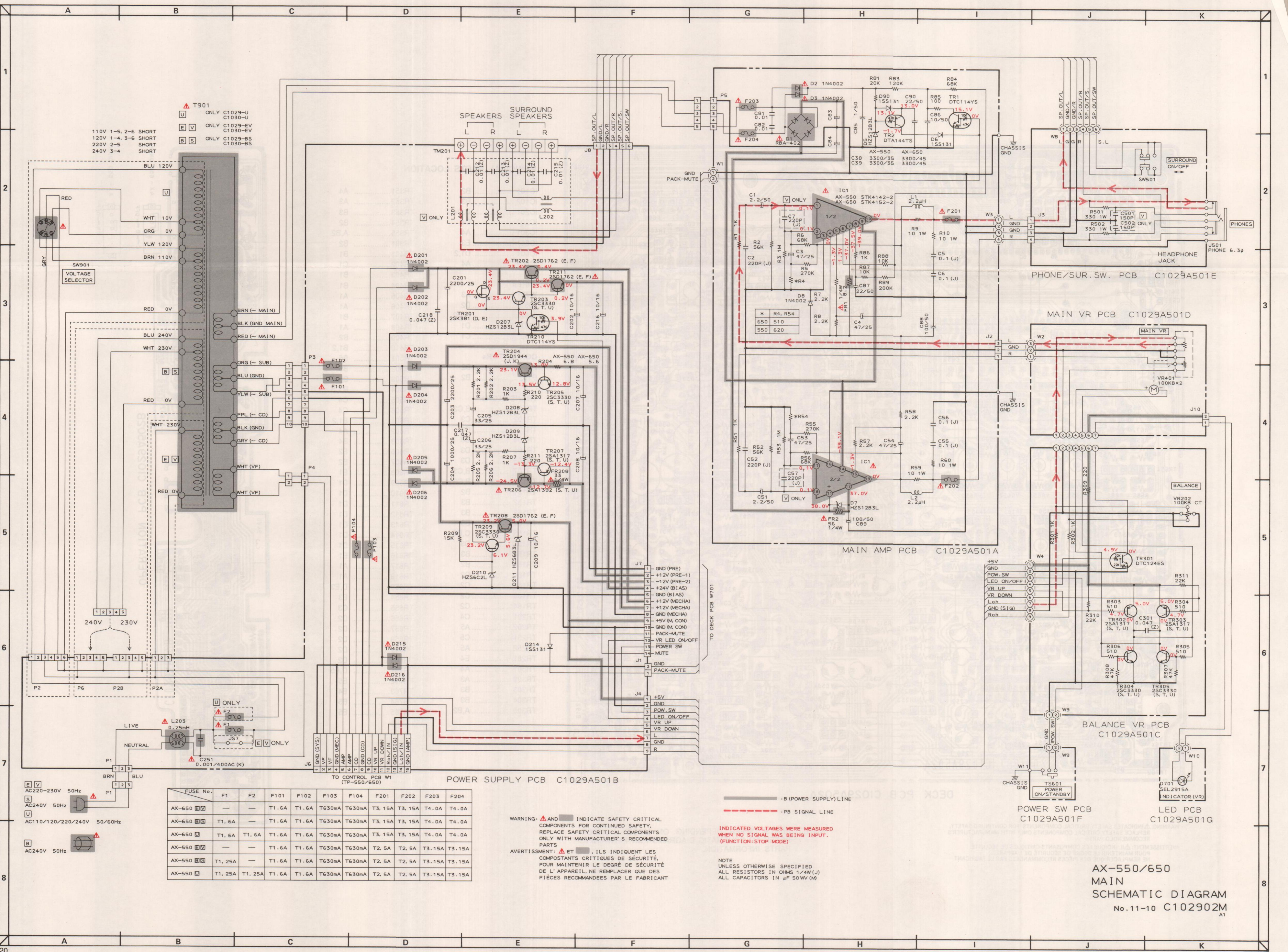
TR351	A4
TR352	A3
TR353	B3
TR354	B2
TR355	A,B2
TR381	B2
TR401	B1
TR402	C1
TR403	B1
TR404	B1
TR405	A1
TR406	A1
TR407	B1
TR408	A1
TR409	B2
TR410	B1,2
TR501	B5
TR502	B5
TR503	B,C5
TR504	B,C5
TR505	C4
TR506	C4
TR601	E1,2
TR602	A4
TR603	B4
TR606	E2
TR607	E2
TR608	E1
TR609	D1
TR610	D1
TR611	D1
TR612	D1
TR613	D1
TR614	D1
TR615	D1
TR616	E1
TR617	A1
TR618	A1
TR653	D,E3
TR654	E3
TR655	C3
TR656	D2
TR657	D2
TR658	D2
TR659	D2
TR660	D2
TR761	D,E5
TR762	E5
TR763	E4
TR764	E5
TR765	E5



OPERATION PCB CIO29A502B

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
 AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

NOTE: PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.



T901
ONLY C1029-U
C1030-U
ONLY C1029-EV
C1030-EV
ONLY C1029-B5
C1030-B5

110V 1-5, 2-6 SHORT
120V 1-4, 3-6 SHORT
220V 2-5 SHORT
240V 3-4 SHORT

FUSE No.	F1	F2	F101	F102	F103	F104	F201	F202	F203	F204
AX-650			T1.6A	T1.6A	T630mA	T630mA	T3.15A	T3.15A	T4.0A	T4.0A
AX-650		T1.6A	T1.6A	T1.6A	T630mA	T630mA	T3.15A	T3.15A	T4.0A	T4.0A
AX-550		T1.6A	T1.6A	T1.6A	T630mA	T630mA	T2.5A	T2.5A	T3.15A	T3.15A
AX-550		T1.25A	T1.6A	T1.6A	T630mA	T630mA	T2.5A	T2.5A	T3.15A	T3.15A
AX-550		T1.25A	T1.25A	T1.6A	T630mA	T630mA	T2.5A	T2.5A	T3.15A	T3.15A

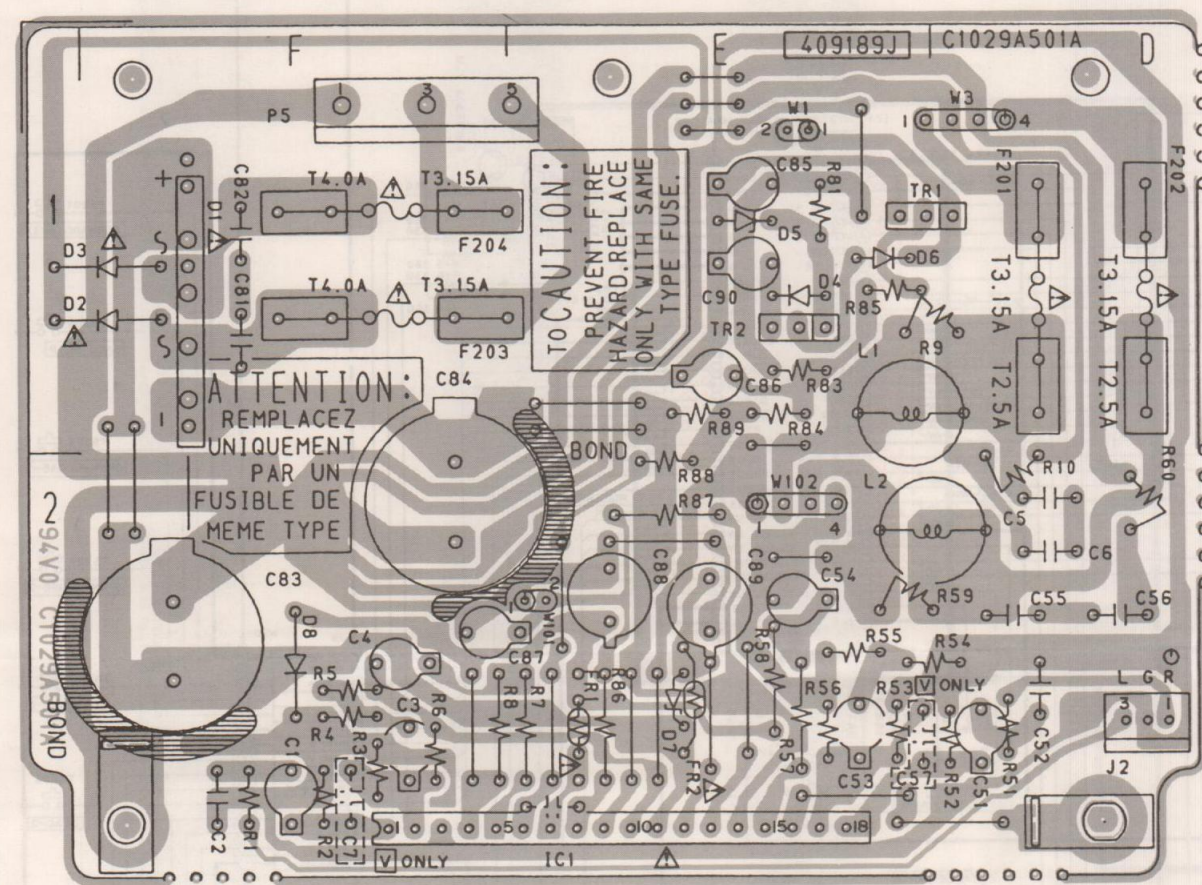
WARNING: AND INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ET , ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

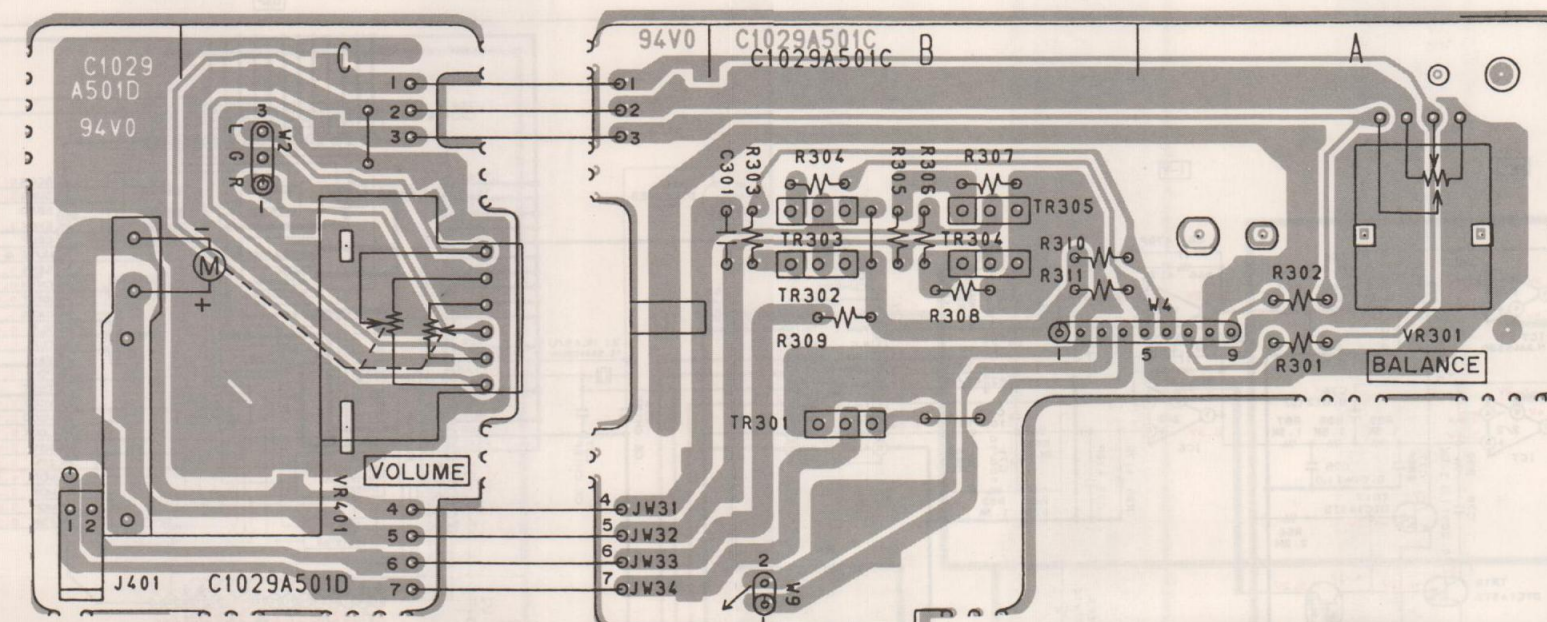
INDICATED VOLTAGES WERE MEASURED WHEN NO SIGNAL WAS BEING INPUT. (FUNCTION: STOP MODE)

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μ F 50V (M)

AX-550/650
MAIN
SCHEMATIC DIAGRAM
No.11-10 C102902M
A1

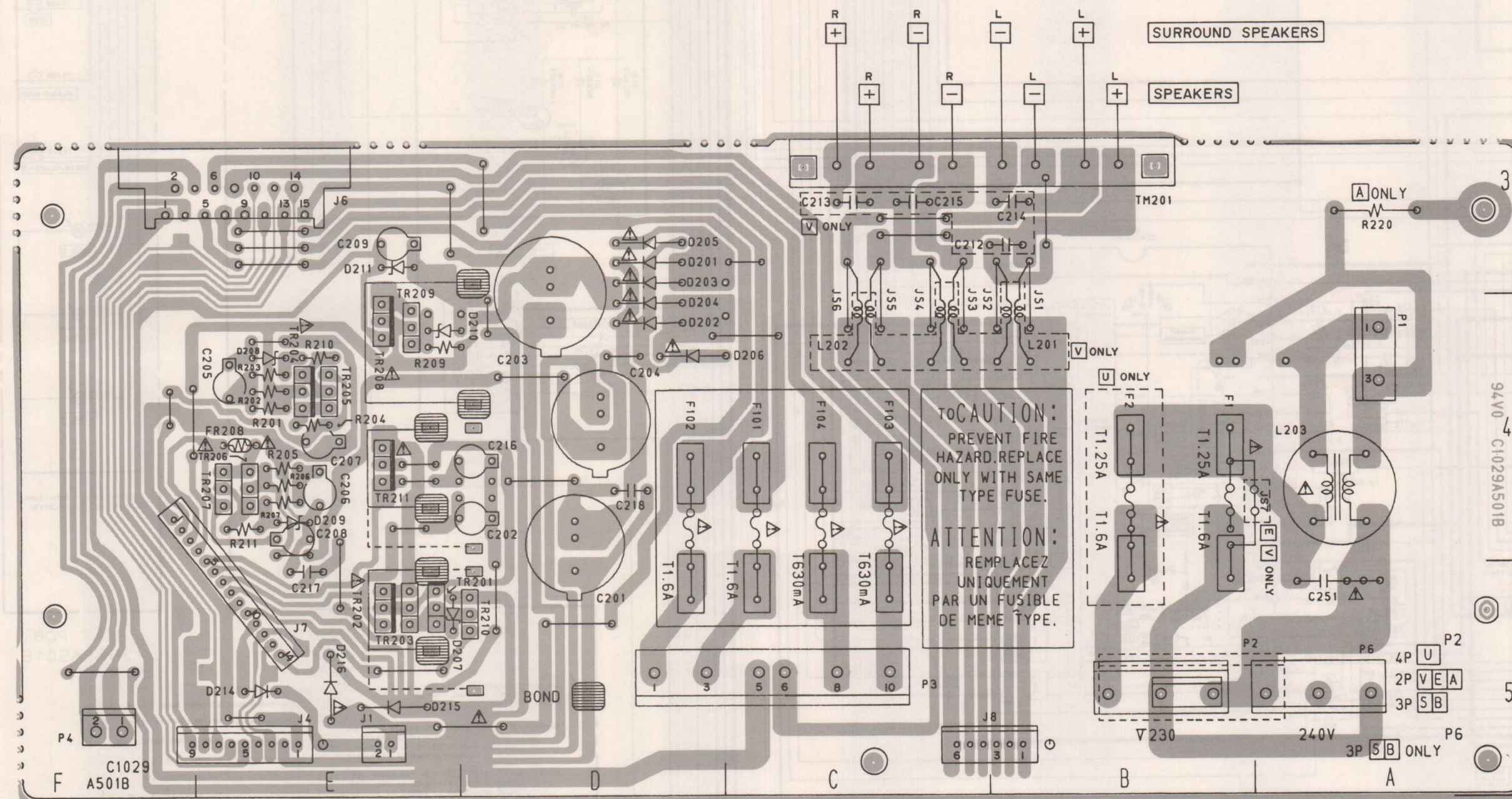


MAIN AMP PCB C1029A501A

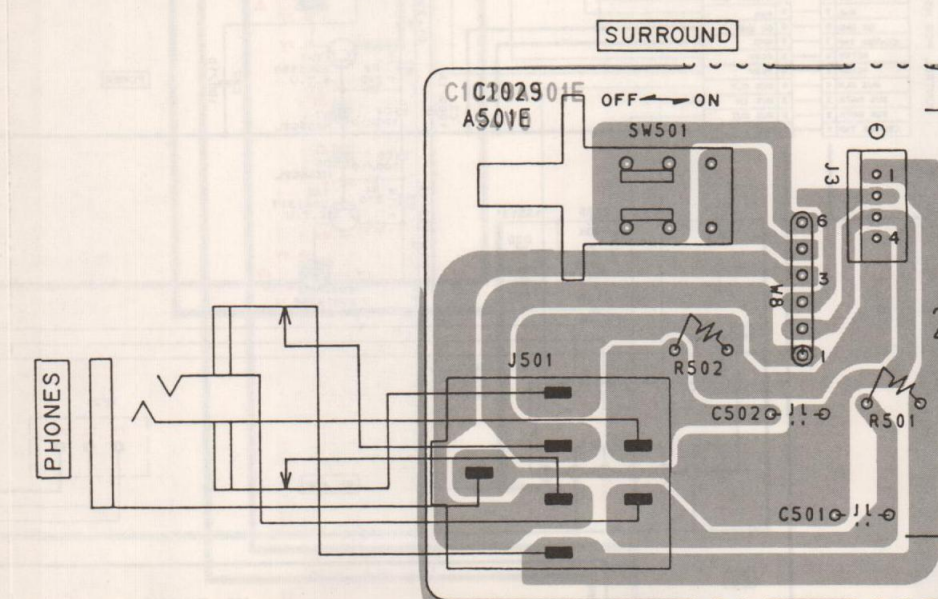


MAIN VR PCB
C1029A501D

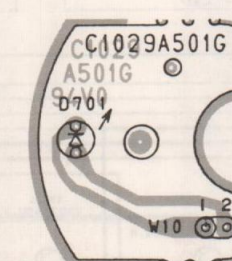
BALANCE VR PCB
C1029A501C



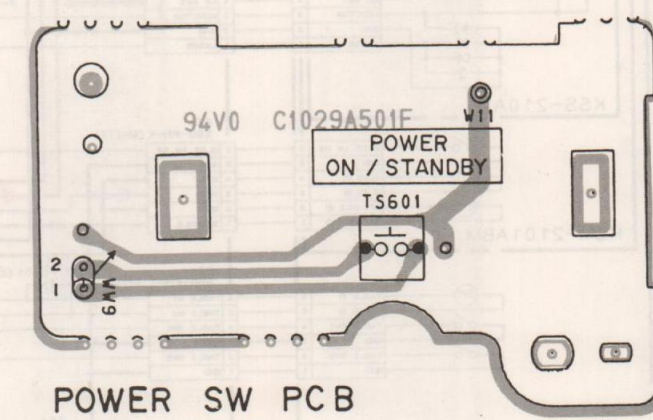
POWER SUPPLY PCB C1029A501B



PHONE / SUR. SW PCB
C1029A501E

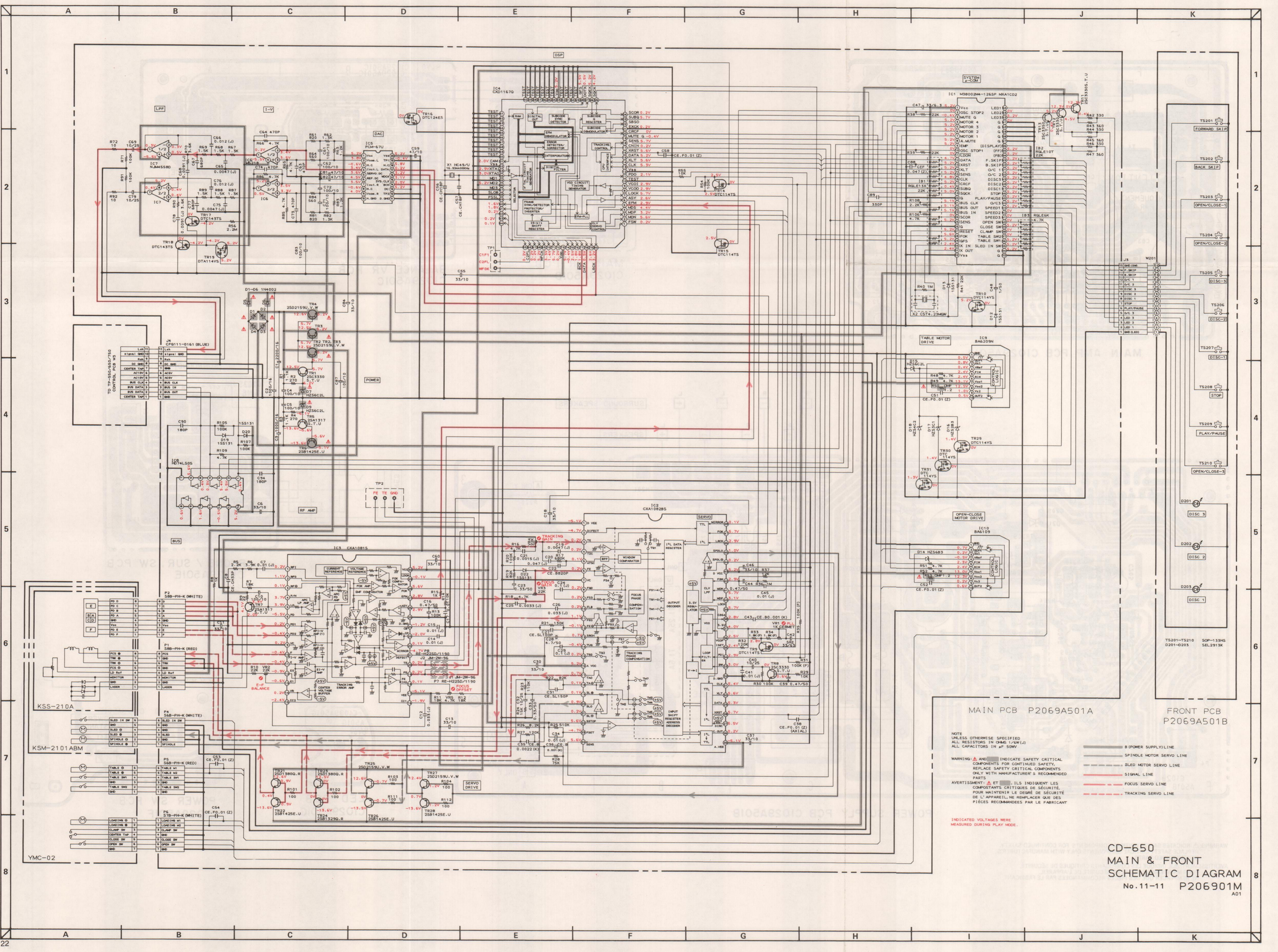


LED PCB
C1029A501G



POWER SW PCB
C1029A501F

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS.
AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT



MAIN PCB P2069A501A
FRONT PCB P2069A501B

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μ F 50V

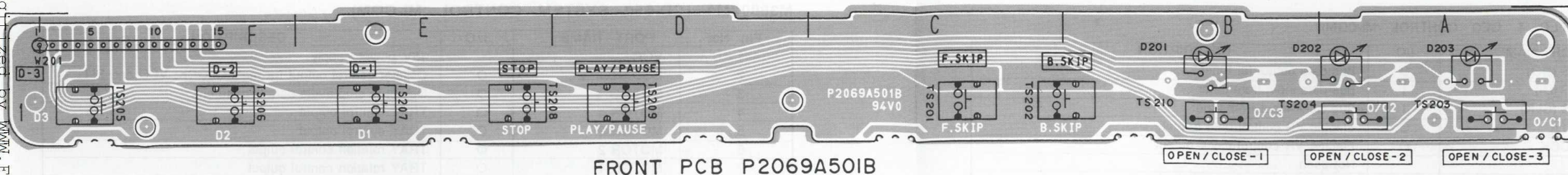
WARNING: A AND Δ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: A ET Δ ILS INDICENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACEZ QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

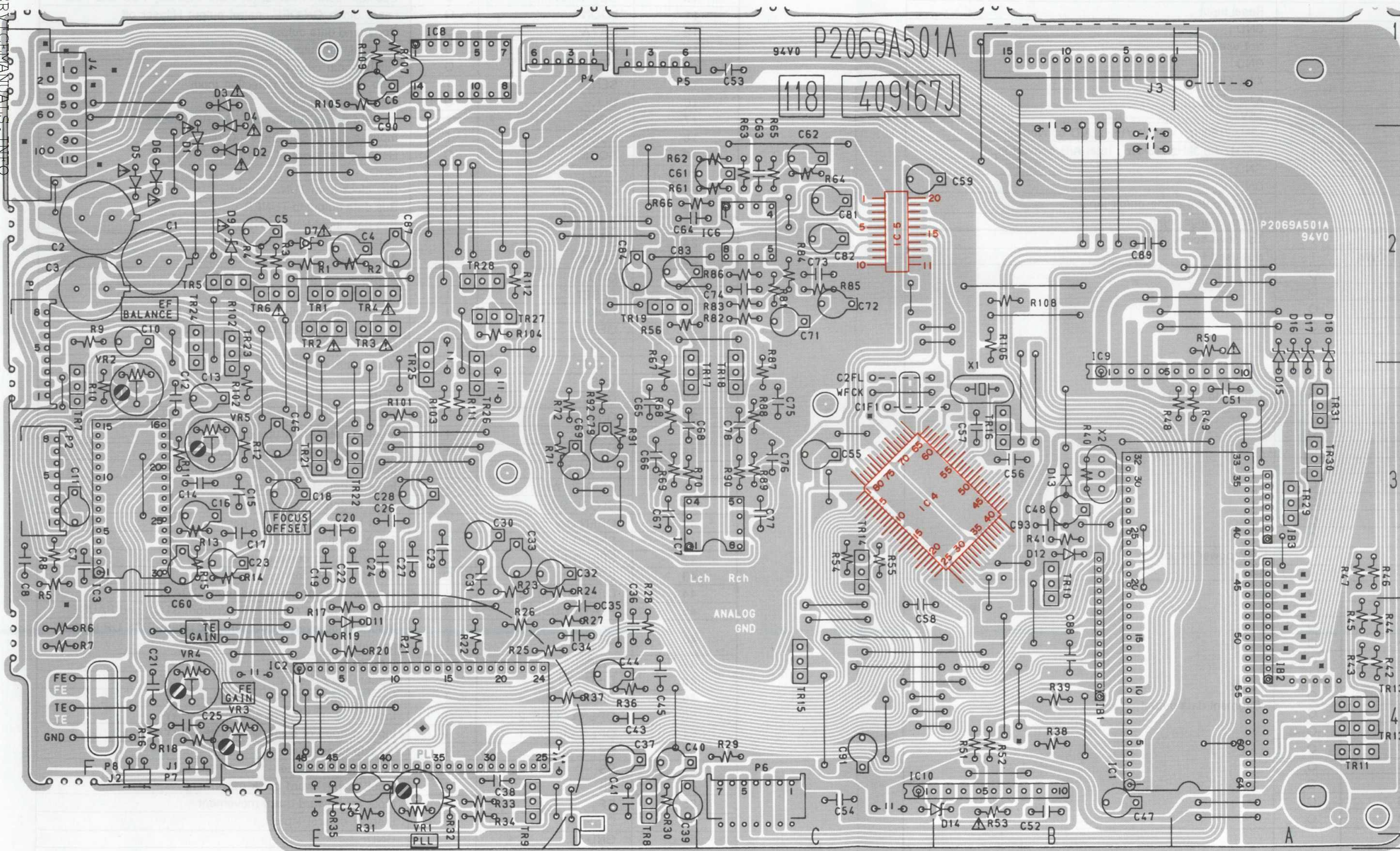
- B (POWER SUPPLY) LINE
- SPINDLE MOTOR SERVO LINE
- SLED MOTOR SERVO LINE
- SIGNAL LINE
- FOCUS SERVO LINE
- TRACKING SERVO LINE

INDICATED VOLTAGES WERE MEASURED DURING PLAY MODE.

CD-650
MAIN & FRONT
SCHEMATIC DIAGRAM
No.11-11 P206901M
A01



FRONT PCB P2069A50IB



MAIN PCB P2069A501A

PRINCIPAL PARTS LOCATION

|Cs

IC1	3,4A,B
IC2	4D,E
IC3	3F
IC4	3B,C
IC5	2C
IC6	2C
IC7	3C,D
IC8	1D,E
IC9	3A,B
IC10	4B,C

CONNECTORs

P1		2,3F
P2		3F
P4		1D
P5		1D
P6		4C
P7		4F
P8		4F

TRANSISTORS

TR1	2E
TR2	2E
TR3	2E
TR4	2E
TR5	2E
TR6	2E
TR7	3F
TR8	4D
TR9	4D
TR10	3B
TR11	4A
TR12	4A
TR13	4A
TR14	3C
TR15	4C
TR16	3B
TR17	3D
TR18	3C
TR19	2D
TR21	3E
TR22	3E
TR23	2,3E
TR24	2F
TR25	2,3E
TR26	3D
TR27	2D
TR28	2D
TR29	3A
TR30	3A
TR31	3A

WARNING: INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT:  IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

LC866008A (TP-650 FLD & GEQ CONTROL MI-COM)

Pin No.	PORT NAME	I/O	DESCRIPTION
1	BUS (DO)	O	Bus data output for tuner
2	BUS (DI)	I	Bus data input from tuner
3	BUS (CLK)	I	Bus clock input from tuner
4	DATA	O	Electric VR control data output
5	CLOCK	O	Electric VR control clock output
6			Not used
7	MUTE	O	Mute control output (H:mute on)
8	FLD OFF	O	FLD / control output (H:FLD on)
9	TEST		Not used
10	RST	I	Reset input
11	XT 1		GND
12	XT 2		Not used
13	VSS		GND
14	CF 1		X'tal OSC
15	CF 2		X'tal OSC
16	VDD		+5V
17	A/D 1	I	63Hz /160Hz / 400Hz /1kHz A/D convert input
18	A/D 2	I	2.5kHz / 6.3kHz /16kHz / total A/D convert input
19	GND		GND
20	GND		GND
21	G-EQ	I	G-EQ control mode on/off input
22	MODE	I	Mode change input
23	CHARACTER UP	I	To move sound character
24	CHARACTER DOWN	I	Not used
25	DIGIT 16	O	Digit data output
26	DIGIT 15	O	
27	DIGIT 14	O	
28	DIGIT 13	O	
29	DIGIT 12	O	
30	DIGIT 11	O	
31	DIGIT 10	O	
32	DIGIT 9	O	
33	DIGIT 8	O	
34	DIGIT 7	O	
35	DIGIT 6	O	
36	DIGIT 5	O	
37	DIGIT 4	O	
38	DIGIT 3	O	
39	DIGIT 2	O	
40	DIGIT 1	O	
41	VDD		+5V power supply
42	VP		-40V
43	SEGMENT 1	O	Segment data output
44	SEGMENT 2	O	
45	SEGMENT 3	O	
46	SEGMENT 4	O	
47	SEGMENT 5	O	
48	SEGMENT 6	O	
49	SEGMENT 7	O	
50	SEGMENT 8	O	
51	SEGMENT 9	O	
52	SEGMENT 10	O	
53	SEGMENT 11	O	
54	SEGMENT 12	O	
55	SEGMENT 13	O	
56	SEGMENT 14	O	
57			Not used
58			
59			
60			
61			
62			
63	ANA. SW 1		Band frequency control output
64	ANA. SW 2		Band frequency control output

M38002M4 (CD-650 SYSTEM CONTROL MI-COM)

Pin No.	PORT NAME	I/O	DESCRIPTION
1	VCC		+5V power supply
2	OSC STOP 2	O	Oscillator control output for main CLOCK, VCO and PLL.
3	MUTE G	O	Output to stop audio data H:mute on
4	MOTOR 4	O	TRAY control output
5	MOTOR 3	O	TRAY control output
6	MOTOR 2	O	TRAY rotation control output
7	MOTOR 1	O	TRAY rotation control output
8	AUDIO MUTE	O	Not used
9	EMP	O	Emphasis control output
10	OSC STOP 1	O	Oscillator control output for main CLOCK, VCO and PLL.
11	LDON	O	Laser diode ON/OFF control output H:laser off
12	DATA	O	Command data output
13	XRST	O	Reset signal output
14	XLT	O	Latch signal output
15	SENS	I	Auto sequence end detection input
16	CLK	O	Clock signal output
17	CRCF	I	Input to detect Sub Code - Q CRC check
18	SUBQ	I	Input to detect Sub Code - Q data
19	SQCK	O	Reading clock out of Sub Code Q data
20	GND		GND
21	CD CLK IN	I	Bus clock from TUNER input
22	BUS OUT	O	Bus data output to TUNER
23	CD DATA IN	I	Bus data input from TUNER
24	SCOR	I	Sub code - Q data direct input
25	SENS	I	Auto sequence end detection input
26	GND		GND
27	RESET	I	Reset input
28	FOK	I	Focus lock detection input H:Focus lock
29	GFS	I	Input to detect PLL lock condition H:lock on
30	X IN	I	Main clock input
31	X OUT	O	Main clock output
32	VSS		GND
33	GND		GND
34	GND		GND
35	IN SW	I	Input to detect pick up position
36	LU SW 1	I	Input to detect disc rotation position
37	LU SW 2	I	Input to detect disc rotation position
38	CLAMP SW	I	Input to detect disc clamp position
39	CLOSE SW	I	Input to detect tray close position
40	OPEN SW	I	Input to detect tray open position
41	SPEED 3	O	TRAY rotation control output
42	SPEED 2	O	TRAY rotation control output
43	SPEED 1	O	TRAY rotation control output
44	OPEN/CLOSE 3	I	Input to open or close and rotate TRAY
45	PLAY/PAUSE	I	Input to change mode to PLAY from STOP and PAUSE
46	STOP	I	Input to stop every movement and return PICK UP to start position
47	DISC 1	I	Input to play DISK 1
48	DISC 2	I	Input to play DISK 2
49	DISC 3	I	Input to play DISK 3
50	OPEN/CLOSE 2	I	Input to open or close and rotate TRAY
51	OPEN/CLOSE 1	I	Input to open or close and rotate TRAY
52	BS	I	To skip to next tune
53	FS	I	To skip to next tune
54	FB	I	Input for backward quick movement
55	FF	I	Input for forward quick movement
56	DISPLAY	I	Display control input
57	GND		GND
58	GND		GND
59	GND		GND
60	GND		GND
61	GND		GND
62	LED 3	O	LED control output
63	LED 2	O	LED control output
64	LED 1	O	LED control output

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Pin No.	PORT NAME	I/O	DESCRIPTION
1	FB 2	O	For switching function output
2	FA 2	O	For switching function output
3	VR UP	O	Main VR control (UP) output H:UP
4	VR DOWN	O	Main VR control (DOWN) output H:DOWN
5	FB 3	O	SUPER BASS control output
6	DECK CLK	O	DECK bus clock output
7	DECK DATA OUT	O	DECK bus data output
8	DECK DATA IN	I	DECK bus data input
9	FA 3	O	SUPER BASS control output
10	CD CLK	O	CD bus clock output
11	CD DATA OUT	O	CD bus data output
12	CD DATA IN	I	CD bus data input
13	G-EQ CLK	O	G-EQ bus clock output
14	G-EQ DATA OUT	O	G-EQ bus data output
15	G-EQ DATA IN	I	G-EQ bus data input
16	FC 1	O	For switching function input
17	FB 1	O	For switching function input
18	FA 1	O	For switching function input
19	FLD OFF	O	FL display off output L:OFF
20	POWER LED	O	Power led control output
21	AMP MUTE	O	Pre amp mute control output H:MUTE ON
22	POWER MUTE	O	Power amp mute control output L:MUTE ON
23	POWER LED	O	Power LED control output
24	FM A/M	O	FM auto/mono control output
25	POWER DOWN	I	Back up dtection input
26	REMOCON	I	REMOCON signal dtection input
27	RESET	I	Reset input
28	XC IN	I	X'tal OSC
29	XC OUT	O	
30	X IN	I	
31	X OUT	O	
32	VSS		GND
33	TUNER MUTE	O	Mute control output H:MUTE ON
34	PLL STRQ	O	PLL control output
35	PLL STIN	I	PLL control input
36	PLL CE	O	PLL control output
37	PLL CLK	O	PLL control output
38	PLL DATA	O	PLL control output
39	K 1	I	Key scan input 1
40	K 0	I	Key scan input 0
41	SB	O	Super bass led control output
42	SD	O	Super direct led control output
43	DIG 9	O	Digit data output
44	DIG 8	O	
45	DIG 7	O	
46	DIG 6	O	
47	DIG 5	O	
48	DIG 4	O	
49	DIG 3	O	
50	DIG 2	O	
51	DIG 1	O	
52	DIG 0	O	
53	SEG 19	O	Segment data output
54	SEG 18	O	
55	SEG 17	O	
56	SEG 16	O	
57	SEG 15	O	
58	SEG 14	O	

Pin No.	PORT NAME	I/O	DESCRIPTION
59	SEG 13	O	Segment data output
60	SEG 12	O	
61	SEG 11	O	
62	SEG 10	O	
63	SEG 9	O	
64	SEG 8	O	
65	SEG 7	O	
66	SEG 6	O	
67	SEG 5	O	
68	SEG 4	O	
69	SEG 3	O	
70	SEG 2	O	
71	SEG 1	O	
72	SEG 0	O	
73	VCC		+5V
74	VEE		-Vp
75	AVSS		GND
76	VREF		+5V
77	TUNED	I	TUNED display input
78	STEREO	I	STEREO display input
79	CD POWER OFF	O	CD power off output H:OFF
80	FC 2	O	For switching function output

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Pin No.	PORT NAME	I/O	DESCRIPTION
1	PLAY-II	O	Input detect head position
2	PACK-II	O	Input detect pack
3	AR-REV-II	O	Input inhibit reverse recording
4	120μ/70μ-II	O	Input detect 120μs/70μs tape L:120μs
5	AR-FWD-II	O	Input inhibit forward recording
6	PLAY I	O	Input detect head position
7	PACK I	O	Input detect pack
8	120μ/70μ-I	O	Input detect 120μs/70μs tape L:120μs
9	REEL-II	O	Reel pulse input
10	REEL-I	O	Reel pulse input
11	x 1 PB 70μs	O	x 1/ x 2 speed playback EQ switching output
12	x 2 PB 70μs	O	x 2 speed playback EQ switching output
13	PB MUTE	O	Playback mute control output
14	CROSS	O	CROSS EDIT control output
15	DATA IN	I	Bus serial data input
16	DATA OUT	O	Bus serial data output
17	CLK IN	I	Bus clock input
18	BOP	I	Music interval detection signal input H:Music interval
19	PB TAPE I	O	TAPE I playback switching control output
20	PB TAPE II	O	TAPE II playback switching control output
21	HEAD REC/PB	O	HEAD recording/playback control output H:playback
22	MECHA POWER	O	Capstan motor stop input
23	MOTOR x 1/ x 2-I	O	Capstan motor x 1/ x 2 speed switching output L: x 1 H: x 2
24	PL COMMON	O	Plunger ON/OFF control output
25	PL-I	O	Plunger ON/OFF control output
26	x 2 PB PEAK	O	For x 1/ x 2 speed playback peaking frequency switching
27	MOTOR x 1/ x 2-II	O	Capstan motor x 1/ x 2 speed switching output L: x 1 H: x 2
28	PL-II	O	Plunger ON/OFF control output
29	FWD LAMP-II	O	TAPE II ► LAMP control output
30	FWD LAMP-I	O	TAPE I ► LAMP control output
31	VCC		+5V power supply
32	VDD		+5V power supply
33	x 1 DUBBING LAMP	O	x 1 DUBBING LAMP control output
34	REV LAMP-I	O	TAPE I ◄ LAMP control output
35	REC PAUSE LAMP	O	REC PAUSE LAMP control output
36	x 2 DUBBING LAMP	O	x 2 DUBBING LAMP control output
37	REV LAMP-II	O	TAPE II ◄ LAMP control output
38	TAPE II LAMP	O	TAPE II LAMP control output
39	TAPE I LAMP	O	TAPE I LAMP control output
40	MAIN VR LAMP	O	MAIN VR LAMP control output
41	TAPE II	I	TAPE II operation input L:ON
42	TAPE I	I	TAPE I operation input L:ON
43	x 1 DUB	I	x 1 SPEED DUBBING L:ON
44	x 2 DUB	I	x 2 SPEED DUBBING L:ON
45	RESET	I	Reset signal input
46	x 2	O	Main clock output
47	x 1	I	Main clock input
48	REW	I	Command rewind tape play L:ON
49	REV	I	Command reverse tape play L:ON
50	STOP	I	Command stop mechanism movement L:ON
51	FWD	I	Command forward tape play L:ON
52	FF	I	Command fast forward tape play L:ON
53	REC PAUSE	I	REC PAUSE command input L:ON
54	AUTO MUTE	I	AUTO MUTE command input L:ON
55	POWER SW	I	Power switch ON/OFF command input
56	PACK MUTE	O	PACK MUTE control output
57	DOLBY REC/PB	O	DOLBY recording/playback control output
58	REC MUTE	O	REC MUTE control output L:MUTE ON
59	x 2 REC PEAKING	O	For x1/ x 2 speed recording peaking frequency switching
60	REC CrO ₂	O	CrO ₂ tape recording EQ switching output H:CrO ₂ tape
61	FADE	O	FADE EDIT control output
62	OSC	O	Bias OSC control output H:OSC ON
63	x1 REC PEAKING	O	For x1/ x 2 speed recording peaking frequency switching H: x1
64	VSS		GND