

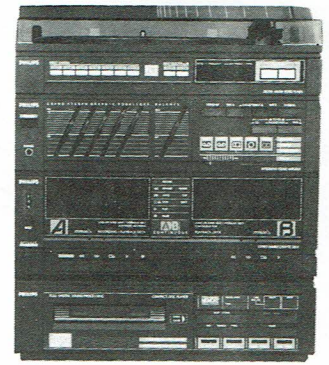
Service Service Service

For Servicing Information as regard to the cassette mechanism refer to Service Manuals: "Tape transport RT-76, Tape transport RT-74".

For Servicing Information concerning the record player refer to Service Manual "Record player Q510AR".

For Servicing Information concerning the Compact Disc player refer to Service Manual CD150/01370 for /30/32/35/43, CD150/01380 for /38.

For Servicing Information concerning the Loudspeakerbox refer to 70FB260 for /30/35/38, 70FB360 for /32/43.



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Service Manual

COMPACT
disc
DIGITAL AUDIO

(GB)	(NL)	(F)	(D)	(I)
TECHNICAL DATA	SPECIFICATIES	SPECIFICATIONS	TECHNISCHE DATEN	DATI TECNICI
Power supply voltages	Voedingsspanningen	Alimentation	Versorgungsspannungen	Tensioni d'alimentazione : 220 V (110, 127, 240 V Service solution) 50/60 Hz ~
Power consumption	Opgenomen vermogen	Puissance absorbée	Leistungsaufnahme	Potenza assorbita : ≤ 65 W
Dimensions	Afmetingen	Dimensions	Abmessungen	Dimensioni : 430x360x320 (hxwx d)
Wave ranges	Golfbereiken	Gammes d'ondes	Wellenbereiche:	Gamma d'onda
FM	FM	FM	UKW	FM : 87.5 - 108 MHz (2000-1177 m)
MW	MW	PO	MW	OM : 520 - 1605 kHz (577-187 m)
LW	LW	GO	LW	OL : 150 - 255 kHz not for /38
Sensitivity	Gevoeligheid:	Sensibilité	Empfindlichkeit:	Sensibilità:
Δf 75 kHz FM	Δf 75 kHz FM	Δf 75 kHz FM	Δf 75 kHz FM	Δf 75 kHz FM : (3 μV mono, 26 dB SN) (60 μV stereo, 46 dB SN) : (1400 μV/m for 26 dB SN)
600 kHz AM	600 kHz AM	600 kHz AM	600 kHz AM	600 kHz AM
IF: FM	IF: FM	IF: AM	IF: FM	IF: FM : 10.7 MHz
IF: AM	IF: AM	IF: AM	IF: AM	IF: AM : 450 kHz
Aerial input	Antenne ingang	Impédance d'antenne	Antennen-Impedanz	Ingresso antenna : 300 Ω
Output power (at 4 Ω load)	Uitgangsvermogen (4 Ω)	Puissance de sortie (4 Ω)	Ausgangsleistung (4 Ω)	Potenza d'uscita (con carico 4 Ω) : 2 x 8.5 W (1 kHz) D ≤ 10% : 300 mV
Aux input sensitivity	Aux	Aux	Aux	Aux
Output impedance	Uitgangsimpedantie	Impédance de sortie	Ausgangsimpedanz	Impedenza d'uscita : 4 Ω
Output impedance of headphones	Uitgangsimpedantie hoofdtelefoon	Impédance de sortie écouteurs	Kopfhörer-Ausgangsimpedanz	Impedenza d'uscita per cuffia : 4-1000 Ω
Compact Disc Section	Compact Disc gedeelte	Partie Compact Disc	Compact Disc - Teil	Sezione Compact Disc
Signal to noise ratio	Signaal/Ruis verhouding	Rapport signal-bruit	Signal/Rausch - Verhältnis	Rapporto segnale/ronzio : 90 dB
Channel Separation	Kanaal scheiding	Séparation de canaux	Kanaltrennung	Separazione canale : 90 dB
Cassette deck	Recorder	Magnétophone	Recorder	Piastra registratore
Speed	Snelheid	Vitesse	Geschwindigkeit	Velocità : 4.76 cm/sec ± 2%
Wow and flutter	Wow en flutter	Pleurage et scintillement	Gleichlaufschwankungen	Wow e flutter : ≤ 0.2%
Record player	Platenspeler	Tourne-disque	Plattenspieler	Giradischi
Speed	Snelheid	Vitesse	Geschwindigkeit	Velocità : 331/3-45 r.p.m.
Wow and flutter	Wow en flutter	Pleurage et scintillement	Gleichlaufschwankungen	Wow e flutter : ≤ 3%

CLASS 1
LASER PRODUCT

3122 110 03420



TOP VIEW

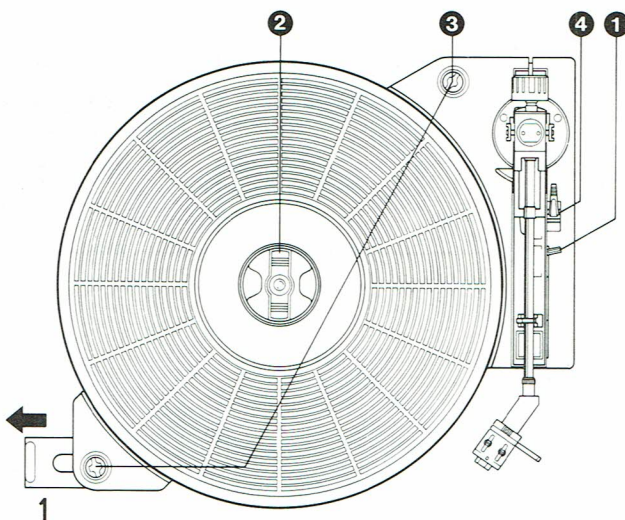


Fig. 1

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CONTROLS AND CONNECTIONS

Fig. 1

- 1 Adapter for 45 rpm. records
- 2 Transit screws
- 3 Cue lever
- 4 Speed selector
33 and 45 rpm.

Fig. 2

- 5 'POWER' On/Off switch
- 6 'PHONES' terminal socket for stereo headphones (impedance 4-1000 ohms).
- 7 Pre-sets 'PRESET STATIONS'
- 8 Programming key 'MEMORY'
- 9 'GRAPHIC EQUALIZER'
- 10 'BALANCE' control
- 11 'AM/FM' (amplitude/frequency modulation) selection button, for /38 FM only.
- 12 'LW/MW' selection button, for /38 MW only.
- 13 Display
- 14 Key 'DOWN'
- 15 Key 'UP'
- 16 'MONO/RIF' mono/stereo selection button.
- 17 Tape type selector (recorder A)
- 18 Tape type selector (recorder B)
- 19 'DUBBING' button
- 20 Source selector
- 21 Source selector
- 22 'VOLUME' control
- 23 'PLAY' button
- 24 'STOP/EJECT' button
- 25 'WIND/CUE' fast winding button
- 26 'REWIND/REVIEW' fast winding button
- 27 'PAUSE' button
- 28 'PLAY' playback/starting button
- 29 'STOP/EJECT' button
- 30 'WIND/CUE' fast winding button
- 31 'REWIND/REVIEW' fast winding button
- 32 'RECORD' button
- 33 Counter
- 34 'TRACK/INDEX' indicator
- 35 'TIME' indicator
- 36 Track/minutes indicator 'TRACK/min'
- 37 Index/seconds indicator 'INDEX/sec'
- 38 'START/REPLAY' key
- 39 'PAUSE' key
- 40 Key for setting time or track/index on display 'TIME/TRACK'
- 41 Programming/review key 'PROGR/REVIEW'
- 42 Key for fast search forward 'FWD'
- 43 Key for playing the next track/searching tracks during programming 'NEXT'
- 44 Key for playing the previous track/searching tracks during programming 'PREV'
- 45 Key for fast search reverse 'REV'
- 46 Key for stopping and opening/closing the tray and clearing the memory 'OPEN.CLOSE.STOP.CLEAR'
- 47 Tray for Compact Disc

FRONT VIEW

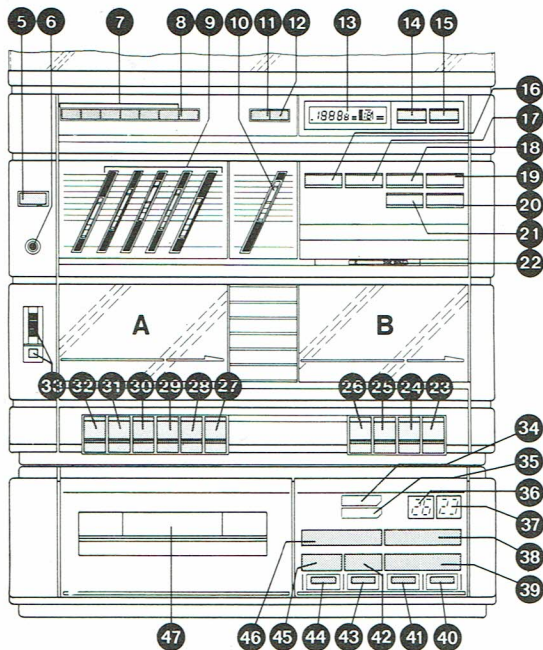


Fig. 2

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REAR VIEW

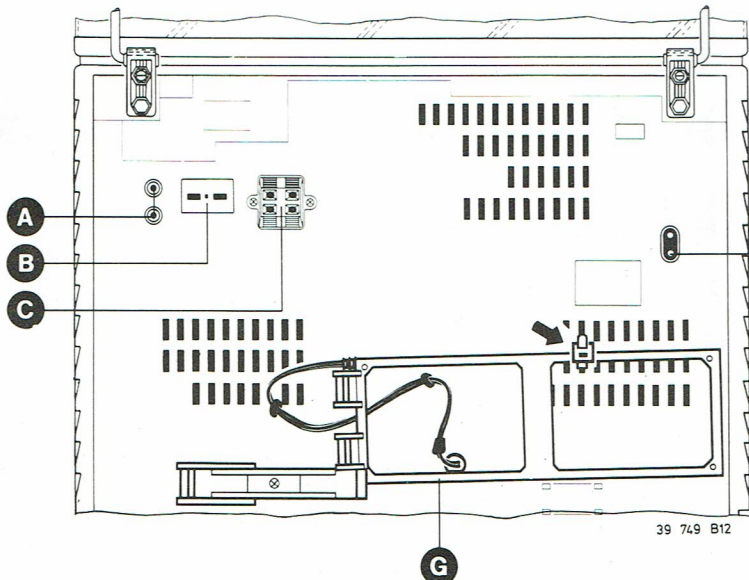


Fig. 3

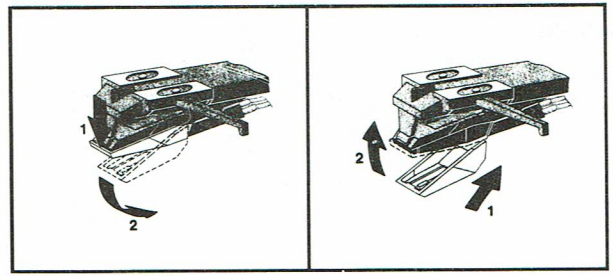
39 749 B12

Fig. 3

- A 'AUX' terminal sockets
- B Terminal sockets for FM aerial, 300 ohms
- C Loudspeaker terminals
For connecting two loudspeakers,
impedance 4 ohms
- D Mains connection socket
- E Screws for adjustment of cover hinges
- F Spacer for mounting of AM-frame aerial
- G AM-frame aerial

SERVICE HINTS

1. Demounting the set see fig. 7
2. Demounting P. U. see fig. 4
3. Chip handling see fig. 5
4. Replacing P. U. cartridge see fig. 6
5. Programming the presets see fig. 9
6. Microprocessor check see fig. 8



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Fig. 6

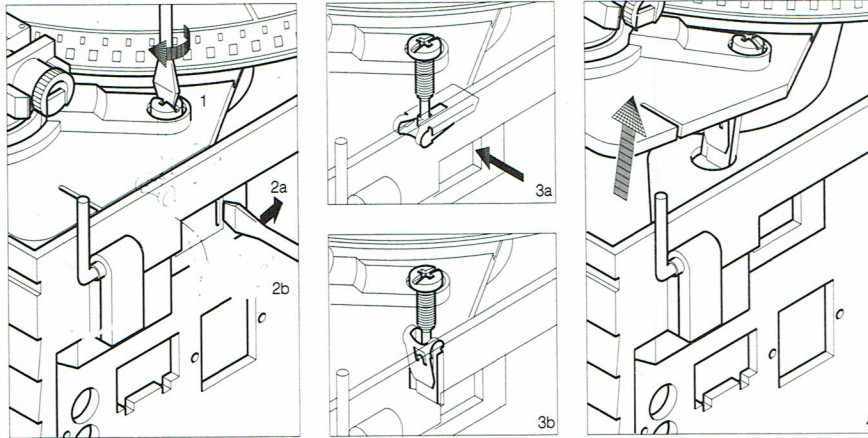


Fig. 4

MDA.00253

CHIP HANDLING COMPONENTS

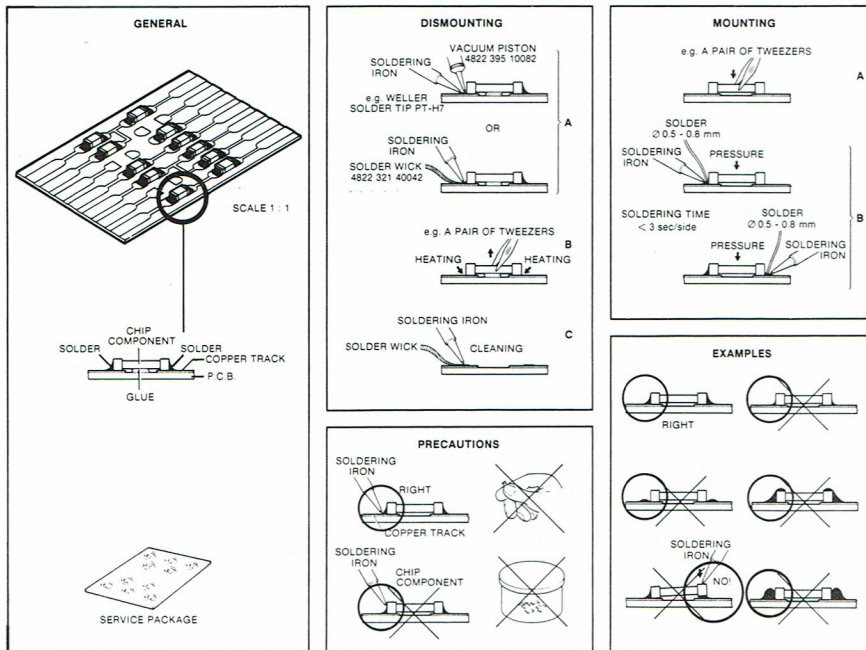


Fig. 5

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A = 4NX9.5
B = 4NX13

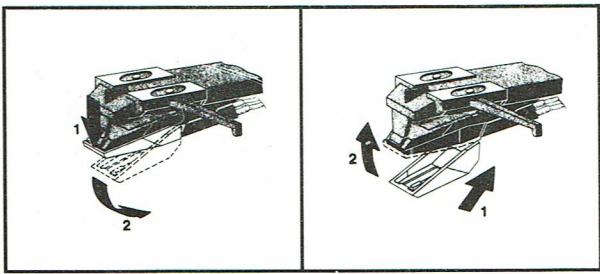
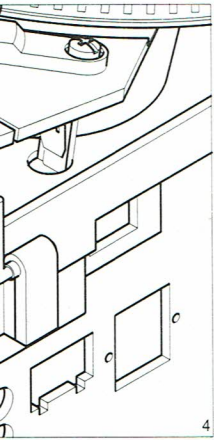
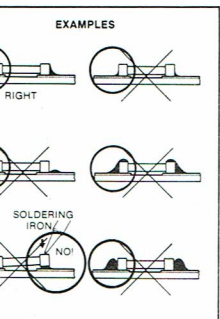
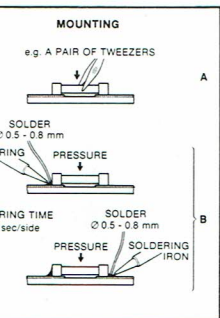


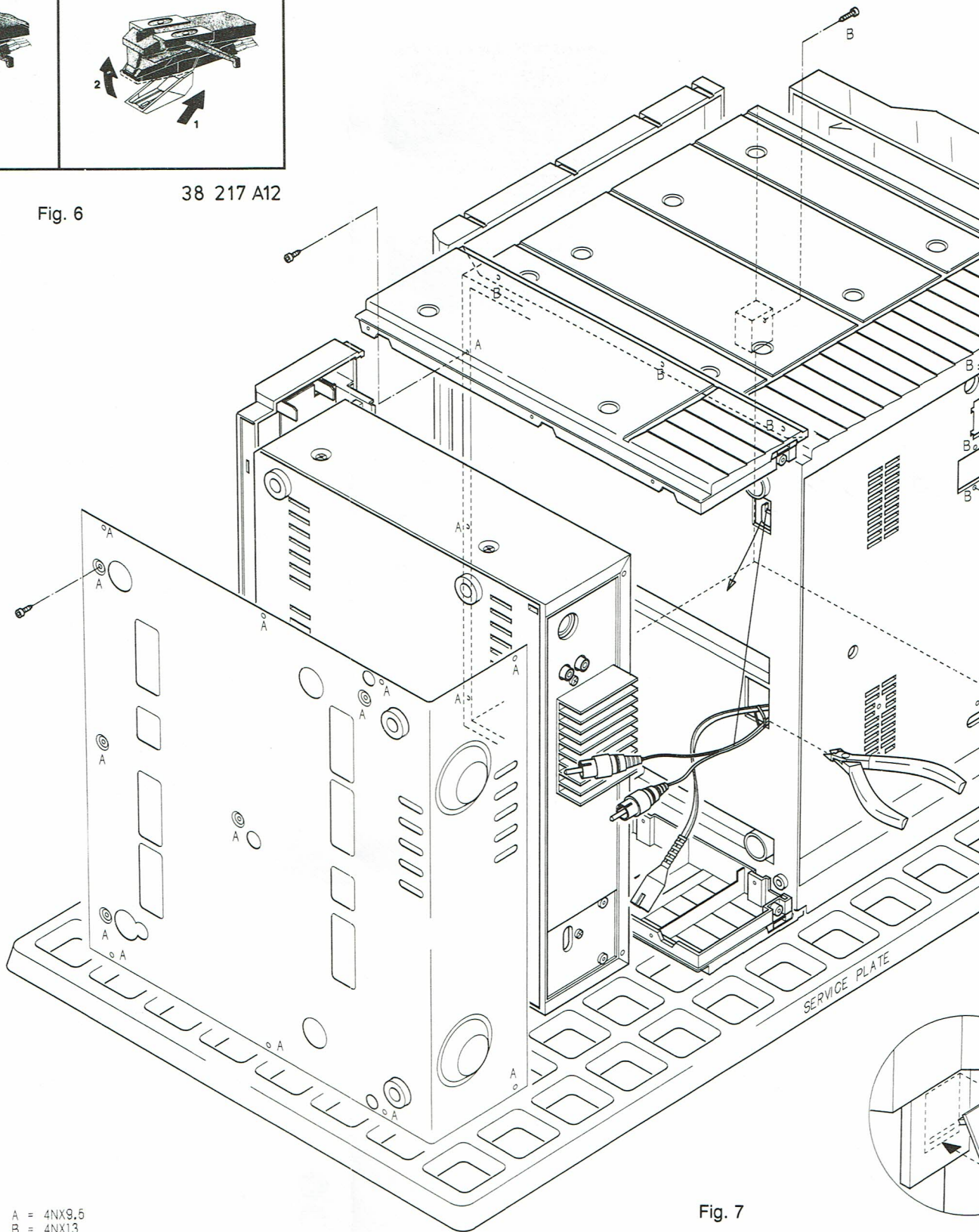
Fig. 6 38 217 A12



MDA.00253



27 012C12



A = 4NX9,6
B = 4NX13

Fig. 7

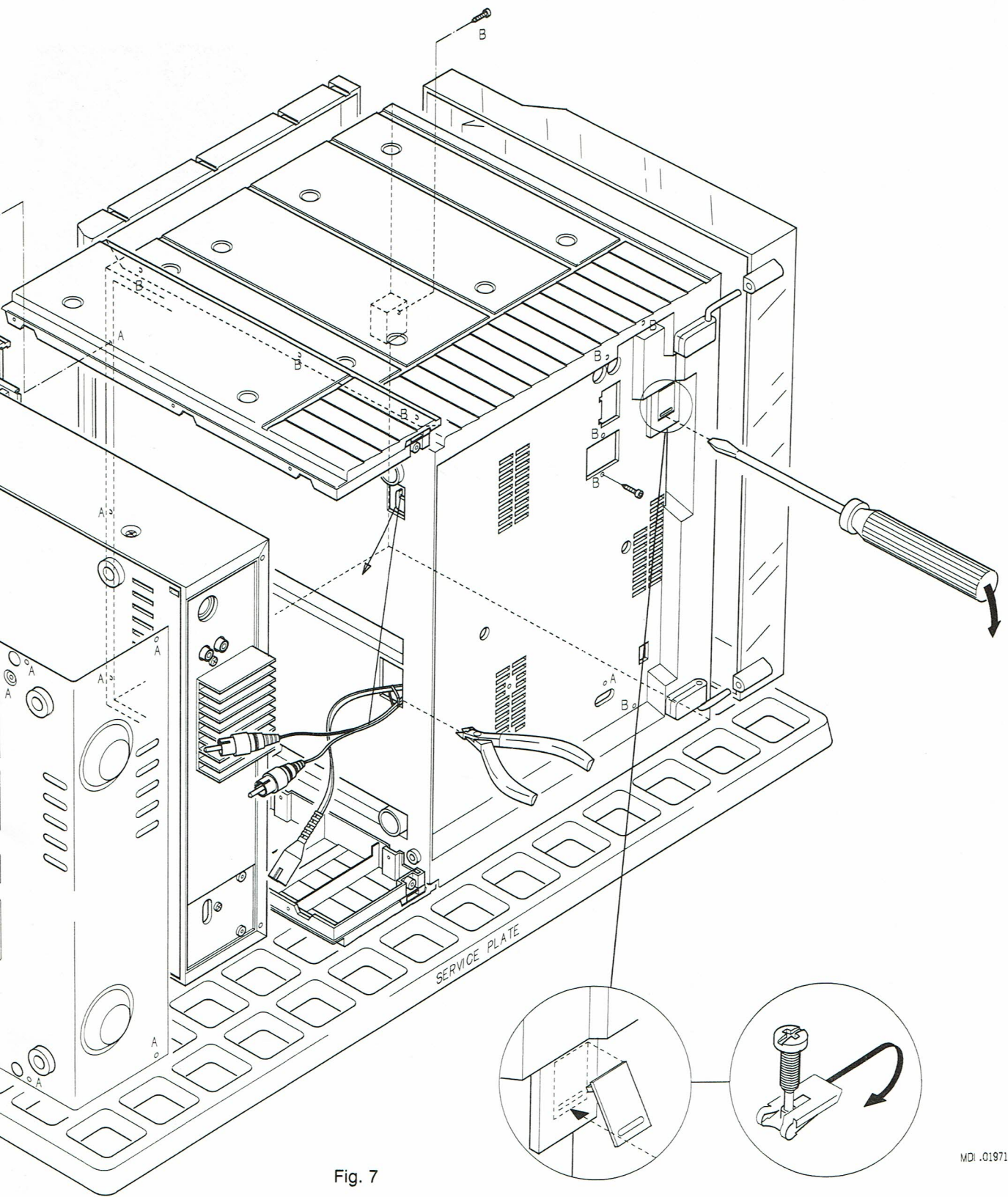
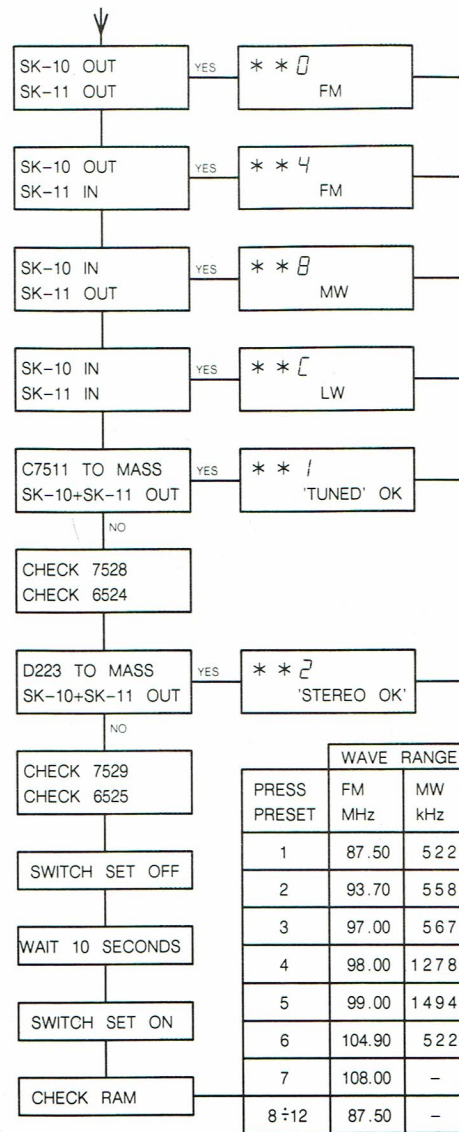
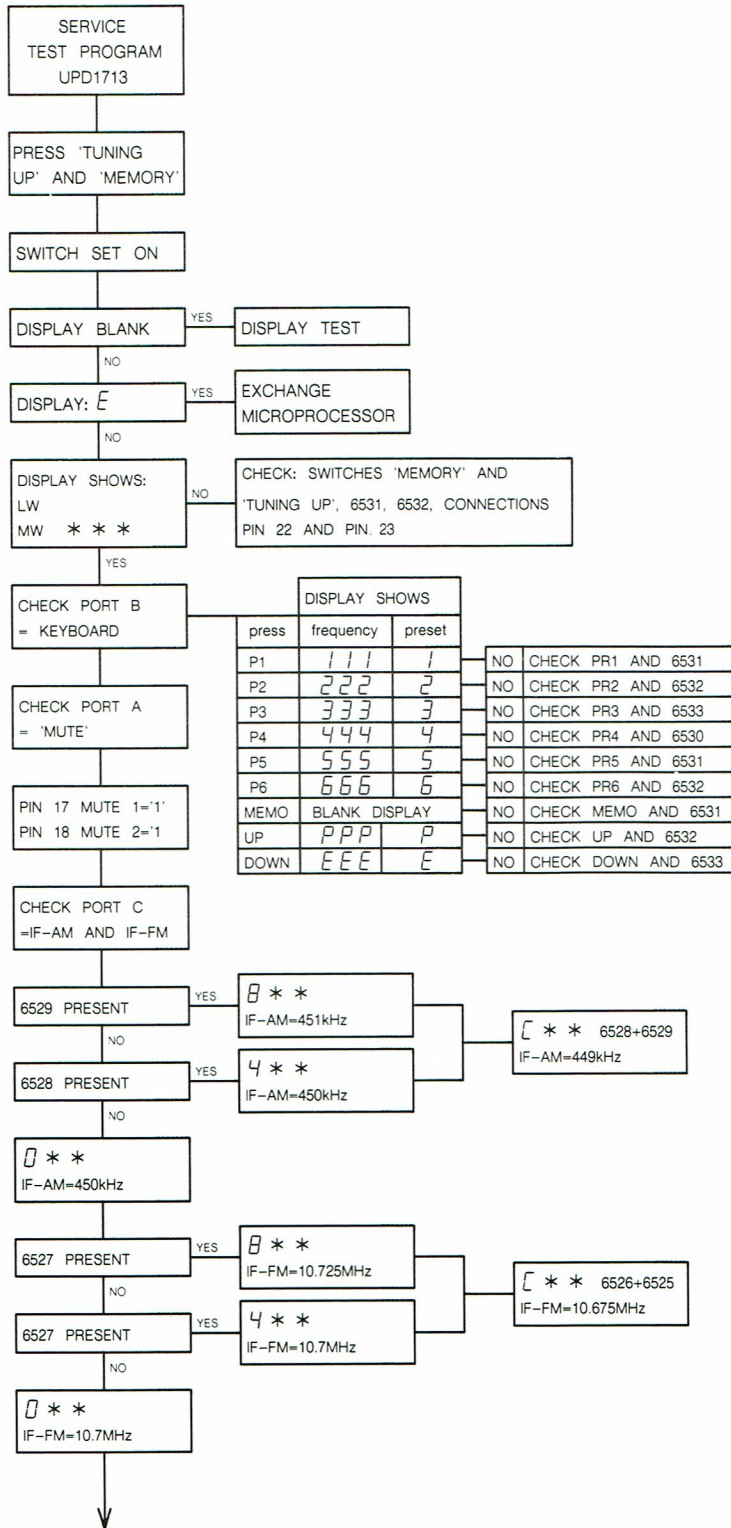


Fig. 7

MDI .01971

MICROPROCESSOR CHECK

* = IRRELEVANT
DISPLAY DIGIT

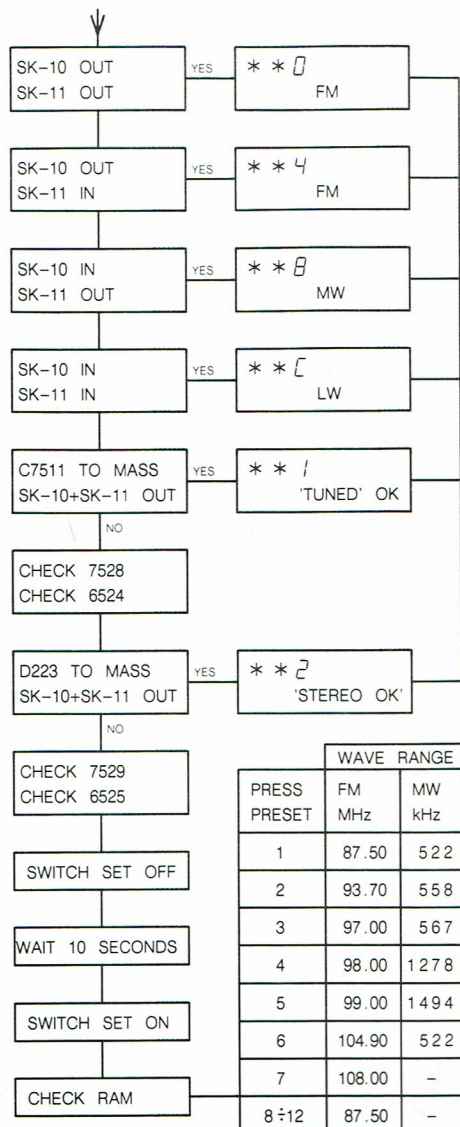


ORY' AND
CONNECTIONS

NO	CHECK PR1 AND 6531
NO	CHECK PR2 AND 6532
NO	CHECK PR3 AND 6533
NO	CHECK PR4 AND 6530
NO	CHECK PR5 AND 6531
NO	CHECK PR6 AND 6532
NO	CHECK MEMO AND 6531
NO	CHECK UP AND 6532
NO	CHECK DOWN AND 6533

[* * 6528+6529
IF-AM=449kHz

[* * 6526+6525
IF-FM=10.675MHz



INPUT PORT K				DISPLAY SHOWS
LSB	2	3	MSB	
1	2	3	4	** 0
0	0	0	0	** 0
1	0	0	0	** 1
0	1	0	0	** 2
1	1	0	0	** 3
0	0	1	0	** 4
1	0	1	0	** 5
0	1	1	0	** 6
1	1	1	0	** 7
0	0	0	1	** 8
1	0	0	1	** 9
0	1	0	1	** A
1	1	0	1	** B
0	0	1	1	** C
1	0	1	1	BLANK
0	1	1	1	** E
1	1	1	1	** P

PRESS PRESET	WAVE RANGE		
	FM MHz	MW kHz	LW kHz
1	87.50	522	150
2	93.70	558	155
3	97.00	567	254
4	98.00	1278	263
5	99.00	1494	150
6	104.90	522	150
7	108.00	-	-
8 ÷ 12	87.50	-	-

EXCHANGE DISPLAY

PRESS 'PRESELECT' BUTTON SHORT

1:6 APPEARS ON DISPLAY

YES

NEXT

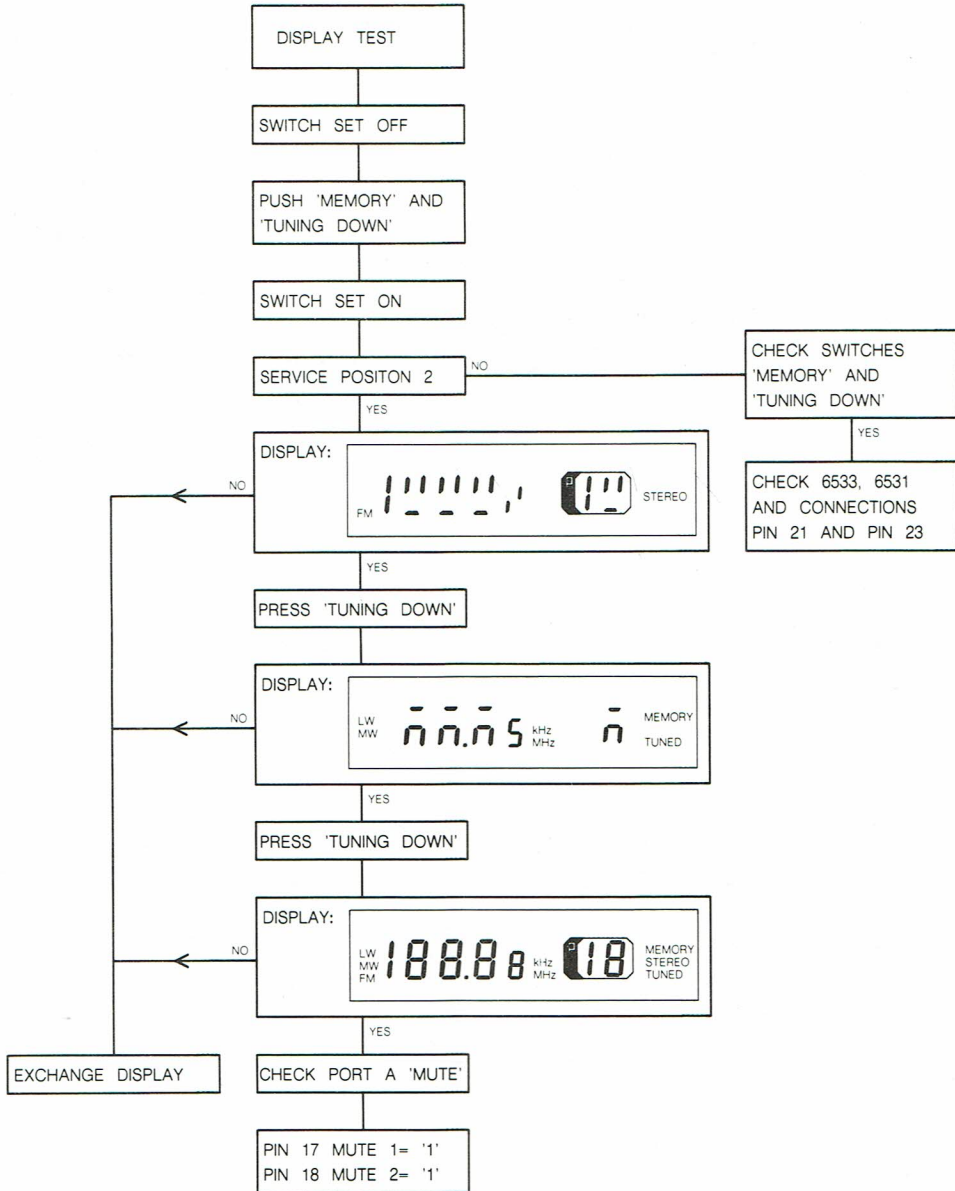
PRESS 'M
DISAPP

Fig. 8

INPUT PORT K				DISPLAY SHOWS
LSB	2	3	MSB	
0	0	0	0	**0
1	0	0	0	**1
0	1	0	0	**2
1	1	0	0	**3
0	0	1	0	**4
1	0	1	0	**5
0	1	1	0	**6
1	1	1	0	**7
0	0	0	1	**8
1	0	0	1	**9
0	1	0	1	**A
1	1	0	1	**B
0	0	1	1	**C
1	0	1	1	BLANK
0	1	1	1	**E
1	1	1	1	**P

LW
KHz
150
155
254
263
150
150
-
-

DISPLAY CHECK



PRESET PROGRAMMING

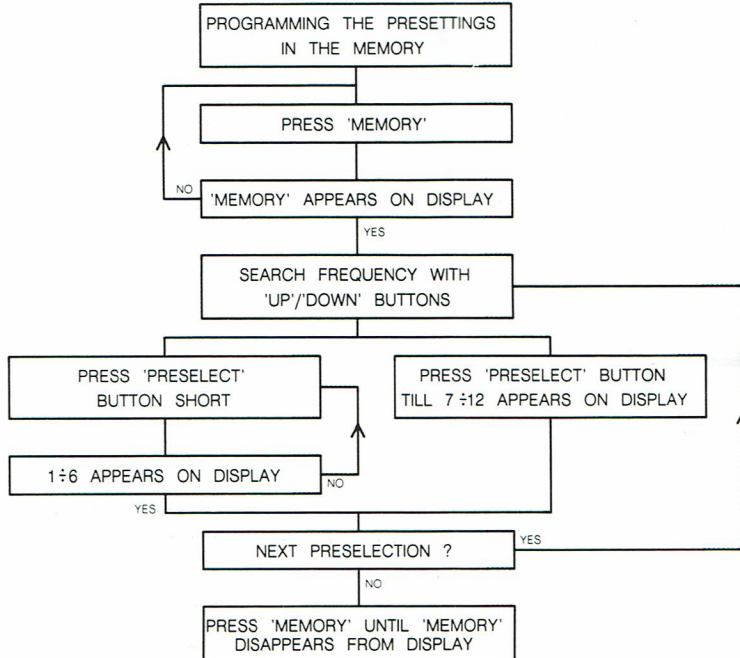
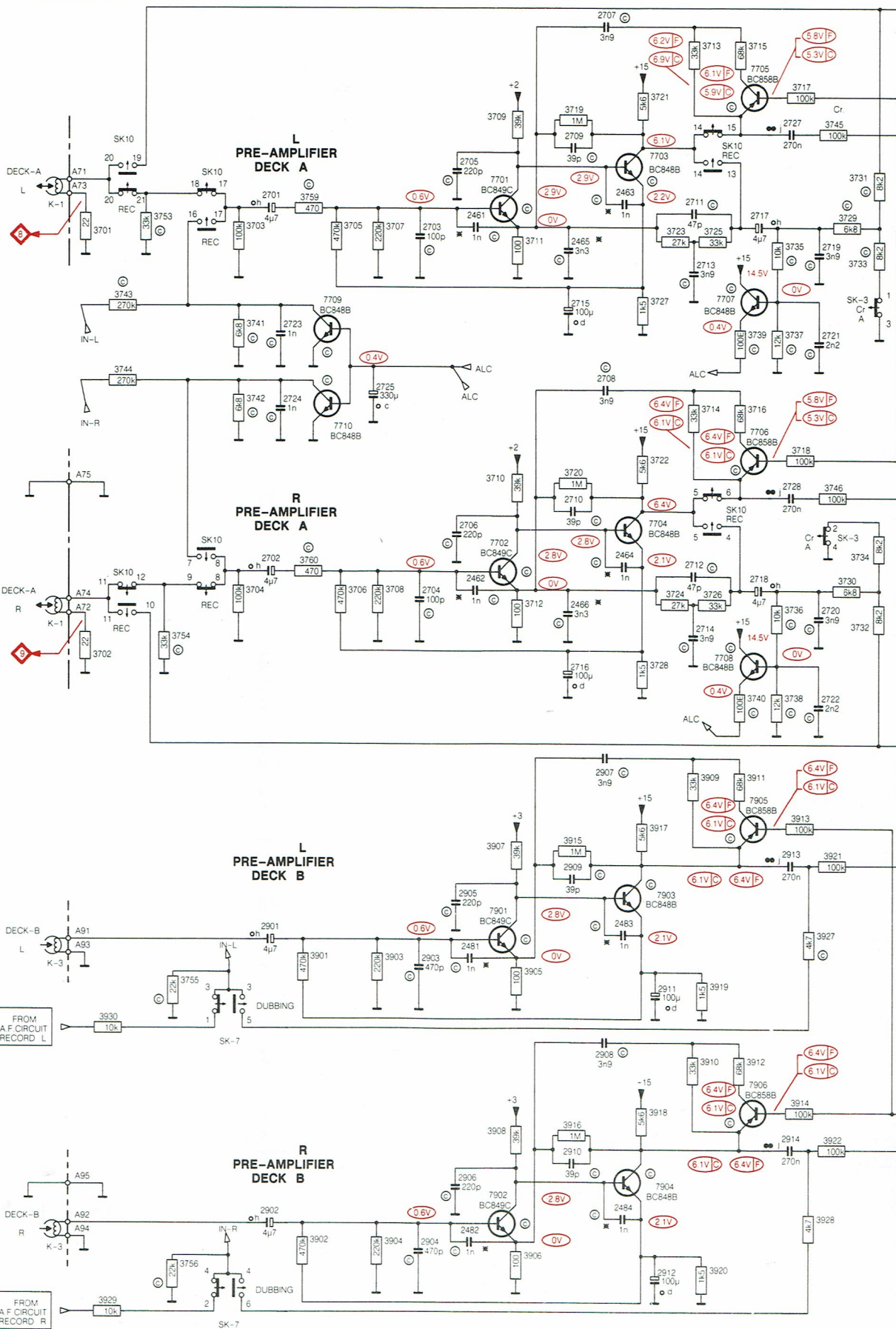


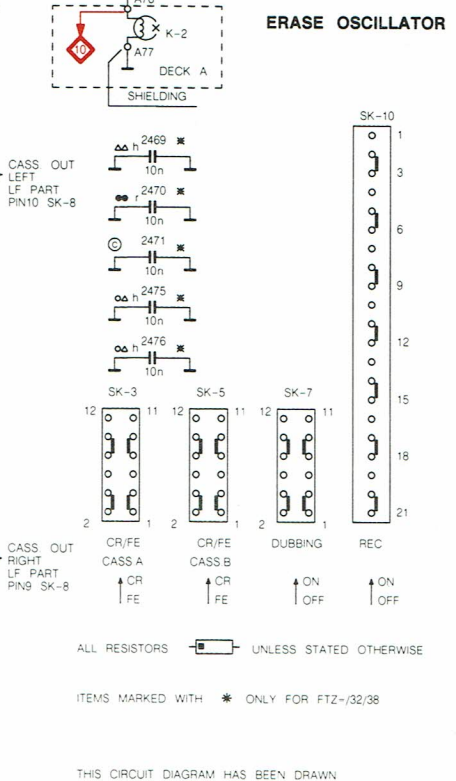
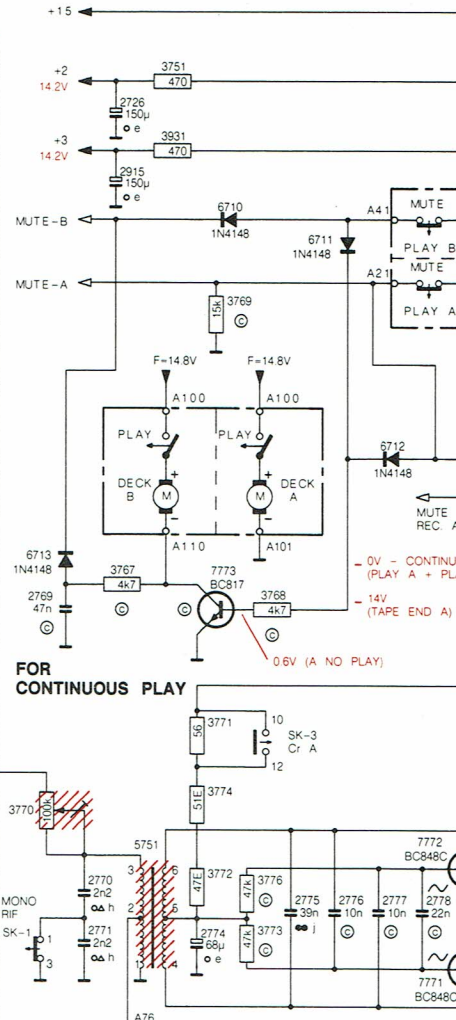
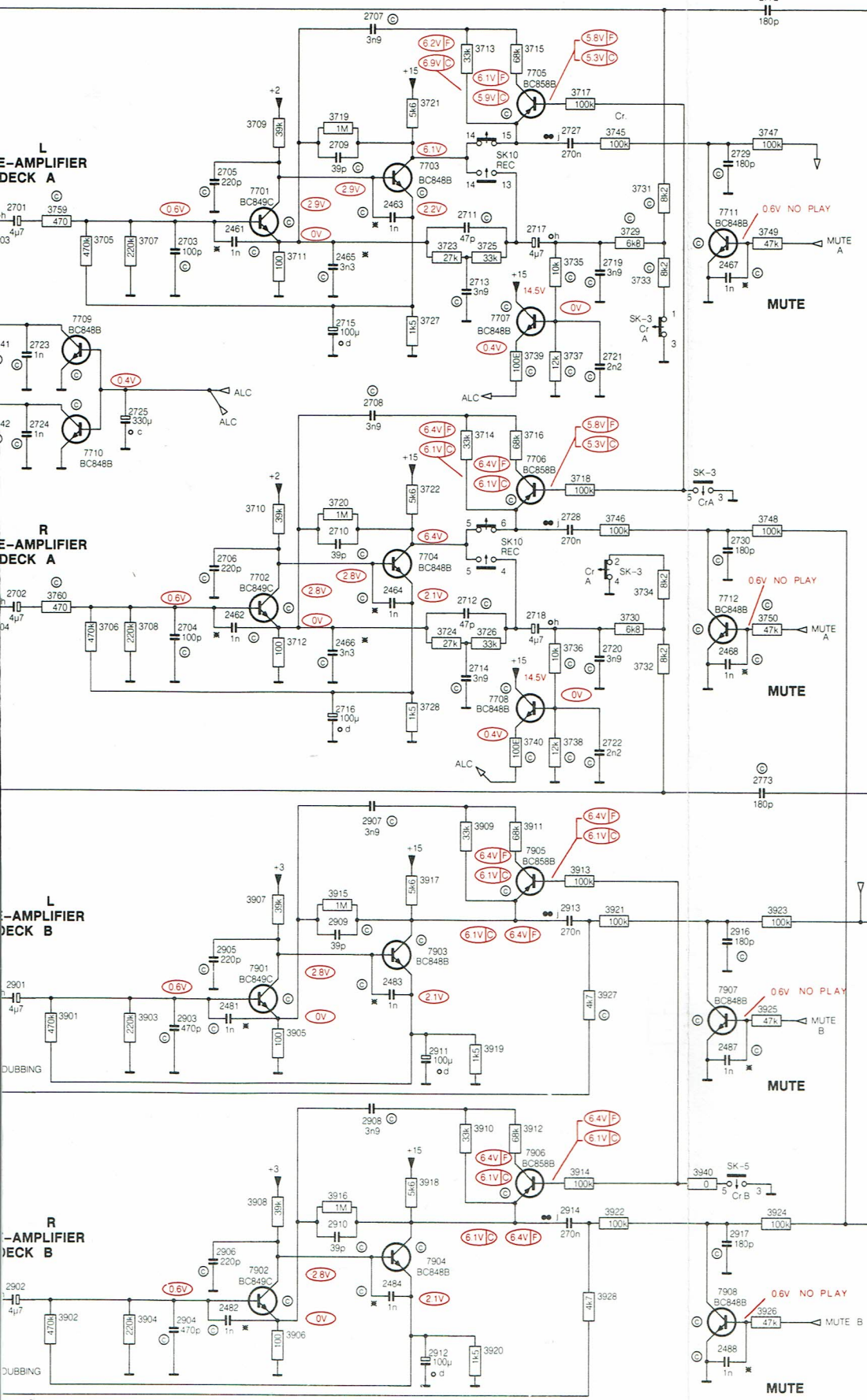
Fig. 8

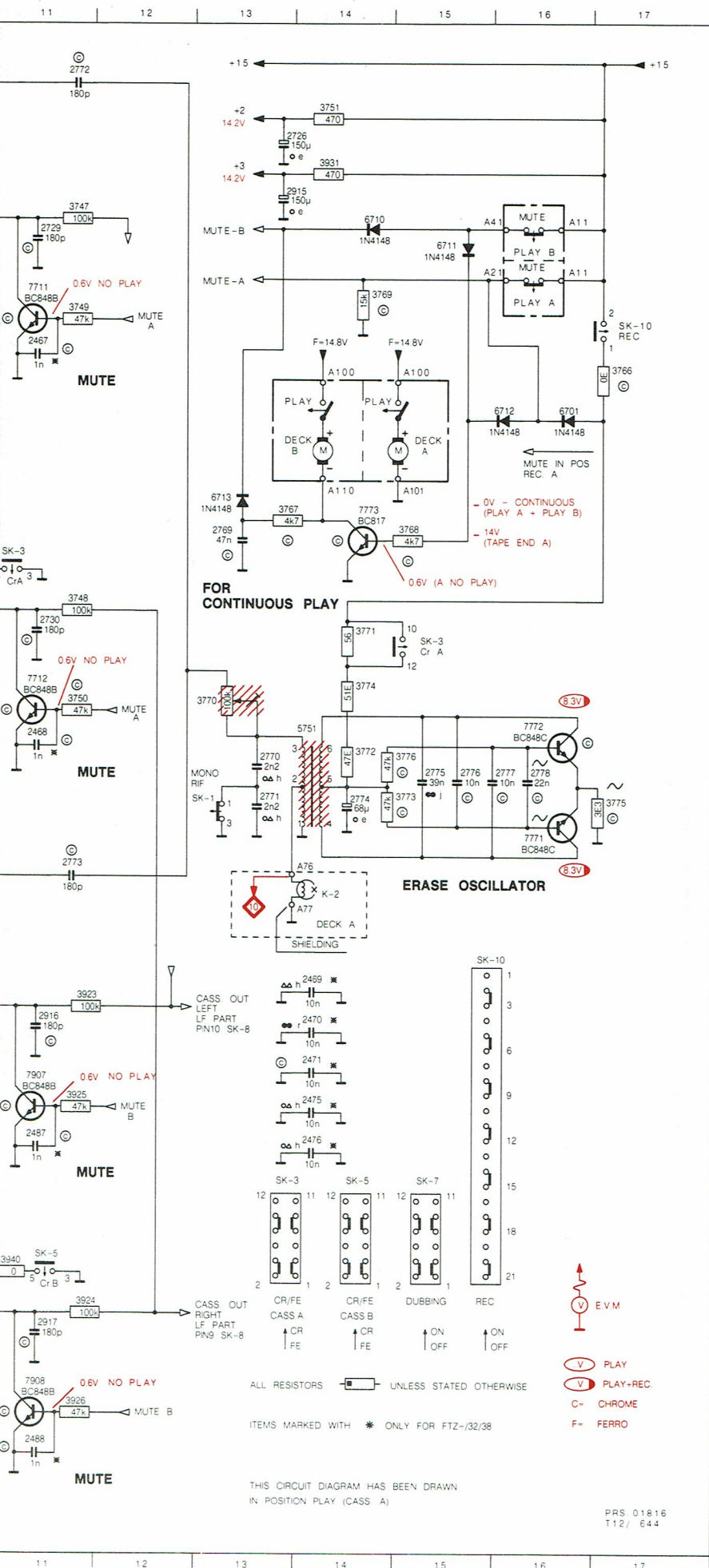
RECORDER PART

MAIN PANEL



MAIN PANEL





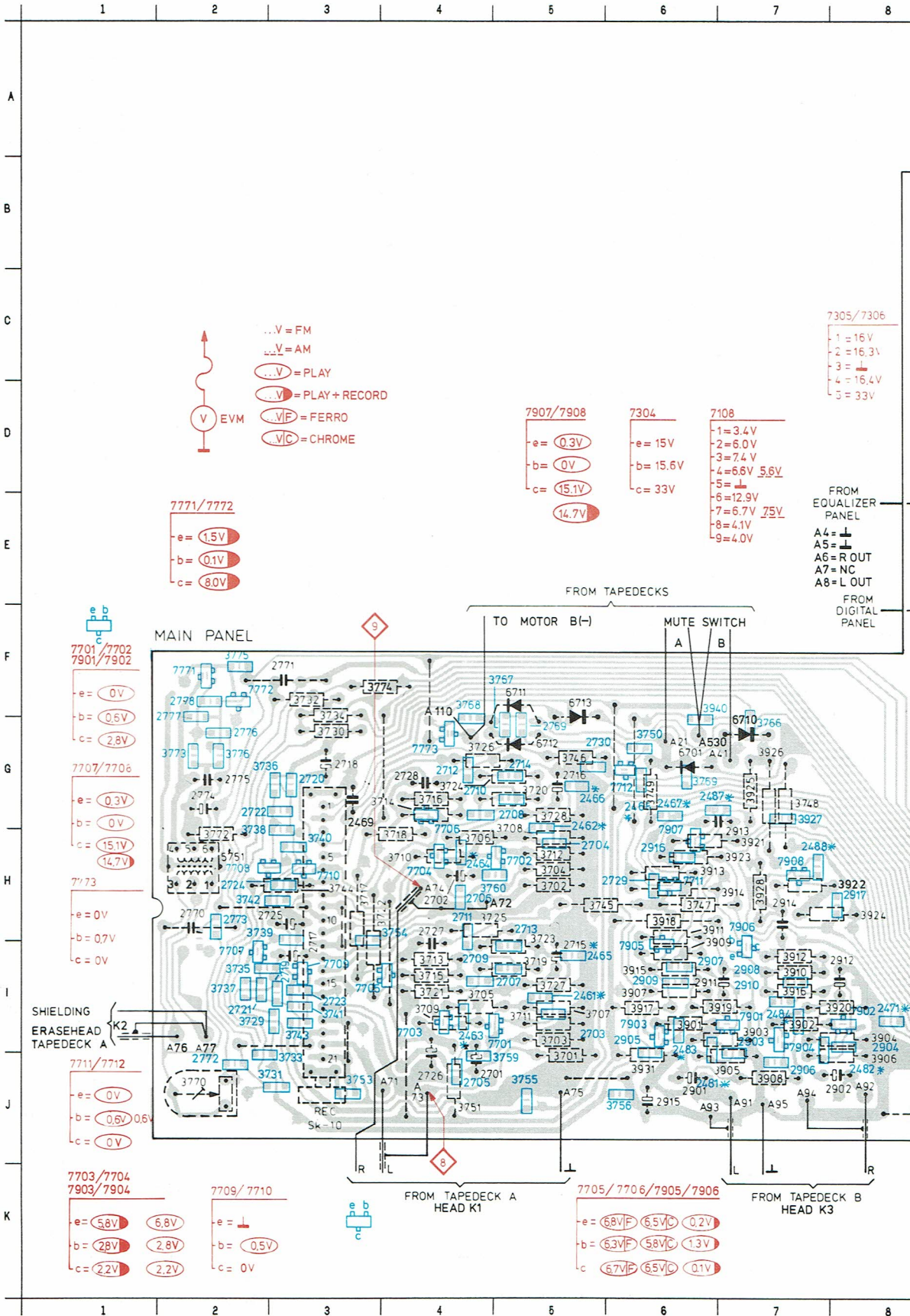
2461 C 6 3902 N 4
 2462 GG 6 3903 K 5
 2463 CC 8 3904 N 5
 2464 GG 9 3905 K 7
 2465 C 7 3906 N 7
 2466 G 7 3907 J 6
 2467 C 11 3908 M 6
 2468 G 11 3909 I 8
 2469 J 14 3910 L 8
 2470 J 14 3911 I 9
 2471 K 14 3912 L 9
 2475 K 14 3913 J 9
 2476 L 14 3914 M 9
 2481 K 6 3915 J 7
 2482 N 6 3916 M 7
 2483 K 8 3917 J 8
 2484 N 8 3918 M 8
 2487 K 11 3919 K 9
 2488 O 11 3920 O 9
 2701 C 4 3921 J 10
 2702 GG 4 3922 M 10
 2703 C 5 3923 J 11
 2704 G 5 3924 M 11
 2705 C 6 3925 K 11
 2706 G 6 3926 N 11
 2707 A 7 3927 K 10
 2708 E 7 3928 N 10
 2709 F 7 3929 O 2
 2710 F 7 3930 B 14
 2711 C 8 3931 B 14
 2712 G 8 3940 M 11
 2713 D 8 5751 G 14
 2714 H 9 6701 D 16
 2715 D 9 6710 B 14
 2716 H 7 6711 C 15
 2717 C 9 6712 D 16
 2718 G 9 6713 E 13
 2719 C 10 7701 C 6
 2720 G 10 7702 G 6
 2721 D 10 7703 B 8
 2722 H 10 7704 F 8
 2723 D 4 7705 B 9
 2724 E 4 7706 E 9
 2725 E 5 7707 D 9
 2726 A 1 7708 H 9
 2727 B 9 7709 D 4
 2728 F 9 7710 E 4
 2729 B 11 7711 C 11
 2730 F 11 7712 G 11
 2769 E 13 7771 H 16
 2770 H 13 7772 G 16
 2771 H 13 7773 E 14
 2772 A 11 7901 K 6
 2773 I 11 7902 N 6
 2774 H 14 7903 K 8
 2775 H 15 7904 N 8
 2776 H 15 7905 I 8
 2777 H 16 7906 M 9
 2778 H 16 7907 K 11
 2901 K 4 7908 N 11
 2902 N 4
 2903 K 5
 2904 N 5
 2905 J 6
 2906 N 6
 2907 I 7
 2908 L 7
 2909 J 7
 2910 M 7
 2911 L 8
 2912 O 8
 2913 J 9
 2914 M 9
 2915 B 14
 2916 J 11
 2917 M 11
 3701 C 2
 3702 H 2
 3703 C 4
 3704 C 4
 3705 C 5
 3706 GG 5
 3707 C 5
 3708 G 5
 3709 B 6
 3710 F 6
 3711 G 7
 3712 G 7
 3713 A 8
 3714 E 8
 3715 A 9
 3716 B 9
 3717 B 9
 3718 F 9
 3719 B 7
 3720 F 7
 3721 B 8
 3722 F 8
 3723 C 8
 3724 G 8
 3725 C 8
 3726 G 8
 3727 D 8
 3728 H 8
 3729 C 10
 3730 G 10
 3731 C 10
 3732 H 10
 3733 D 10
 3734 G 10
 3735 C 9
 3736 G 9
 3737 D 9
 3738 H 9
 3739 D 9
 3740 H 9
 3741 D 4
 3742 E 4
 3743 D 2
 3744 E 2
 3745 B 10
 3746 F 10
 3747 B 11
 3748 F 11
 3749 C 11
 3750 G 11
 3751 A 14
 3753 C 3
 3754 H 3
 3755 K 3
 3756 O 3
 3759 C 4
 3760 G 4
 3766 D 17
 3767 E 13
 3768 E 15
 3769 C 14
 3770 G 13
 3771 F 14
 3772 H 14
 3773 H 15
 3774 G 14
 3775 H 17
 3776 H 15
 3901 K 4

V PLAY
 V PLAY+REC
 C- CHROME
 F- FERRO

THIS CIRCUIT DIAGRAM HAS BEEN DRAWN
 IN POSITION PLAY (CASS. A)

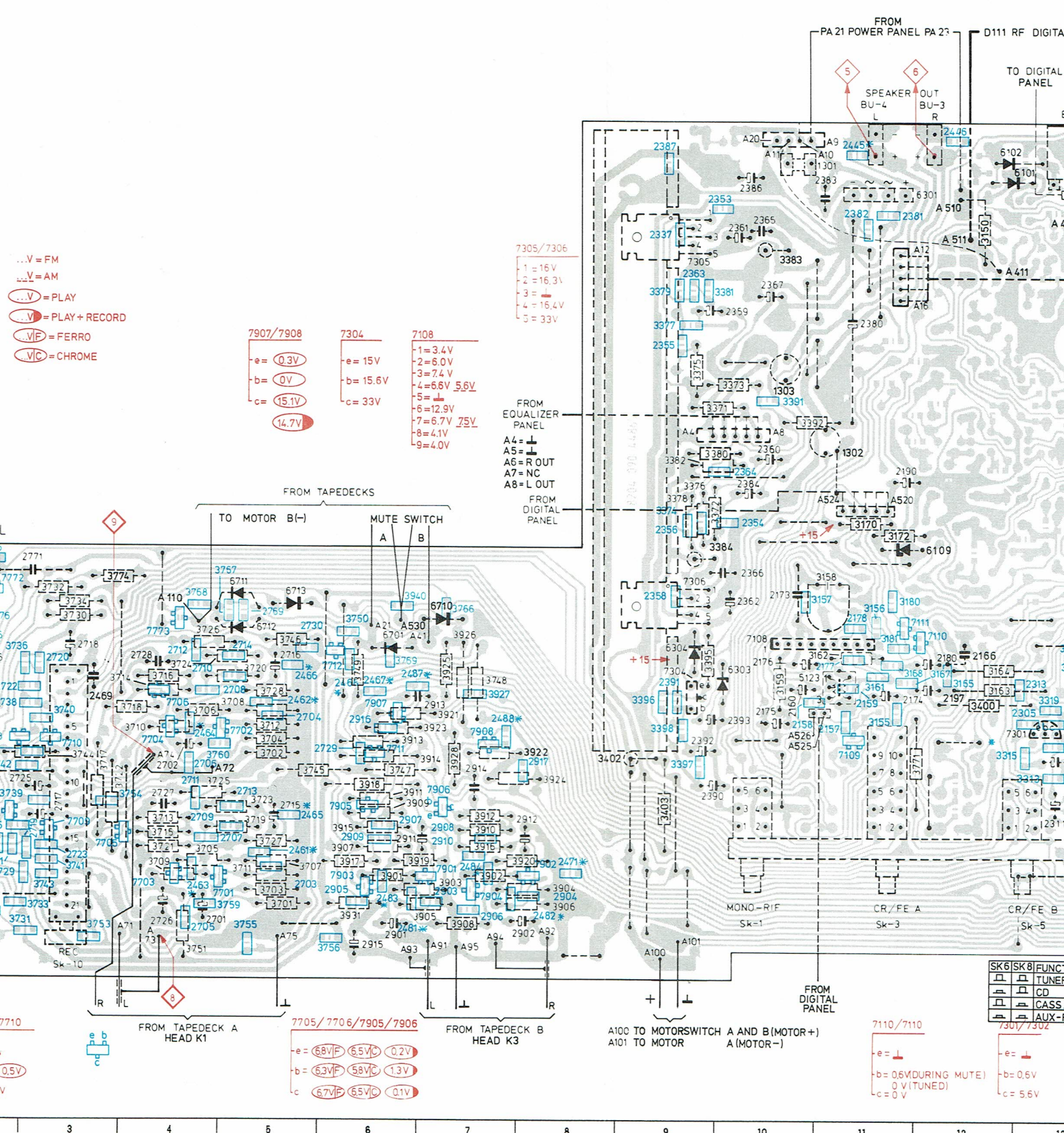
PRS 01816
 T12/ E44

1301	B11	2301	G15	2355	D 9	2383	B11	2461	I 5	2703	I 6	2719	I 3	2773	H 2	2911	I 7	3167	G12	3317	H13
1301	D10	2302	I15	2356	F 9	2384	B10	2462	G 5	2704	H 6	2720	I 0	2774	G 2	2912	I 8	3168	G12	3318	H13
1302	E11	2303	F15	2357	F 9	2385	B10	2463	I 4	2705	H 5	2721	I 0	2775	G 2	2913	H 7	3169	G12	3319	H13
2157	H11	2304	F15	2358	F 9	2386	B 9	2464	H 4	2706	H 5	2722	I 0	2776	G 2	2914	H 7	3170	G11	3320	G13
2158	H11	2305	H13	2359	D10	2387	B10	2465	I 6	2707	I 5	2723	I 0	2777	G 2	2915	J 6	3171	B15	3321	F10
2159	G10	2306	G14	2360	E10	2388	B 9	2466	I 6	2708	I 5	2724	H 4	2778	F 2	2916	H 6	3172	B15	3322	F10
2160	F10	2307	H13	2361	C10	2389	H 9	2467	G 6	2709	I 4	2725	H 4	2901	J 8	2917	H 8	3173	C15	3323	D10
2173	F10	2308	G14	2362	F10	2390	H10	2468	G 6	2710	I 4	2726	H 4	2902	J 8	2918	H 8	3174	C15	3324	F 9
2174	G12	2309	H13	2363	C 9	2428	I15	2481	J 7	2711	H 4	2727	H 4	2903	J 7	3156	G11	3305	C15	3325	F 9
2175	H10	2310	G14	2364	E 9	2429	I15	2482	J 8	2712	H 4	2728	H 4	2904	I 8	3157	F11	3306	F15	3326	F 9
2176	H10	2311	I13	2365	C10	2432	O14	2483	J 6	2713	H 5	2729	H 4	2905	I 6	3158	F11	3309	H15	3327	F 9
2177	G11	2312	G14	2366	F10	2433	H13	2484	I 7	2714	H 5	2730	H 4	2906	J 7	3159	O10	3310	H15	3328	F 9
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2179	G12	2345	H14	2380	D11	2434	H14	2488	H 7	2716	I 5	2732	H 4	2908	I 7	3162	O11	3314	O14	3330	F10
2180	G12	2353	B10	2381	C12	2445	B11	2549	G 3	2717	I 5	2733	H 4	2909	I 6	3163	O12	3315	H13	3331	F 9
2190	E11	2354	F10	2382	C11	2446	B12	2701	J 5	2718	G 3	2734	J 2	2910	I 7	3164	G12	3316	H13	3332	F10

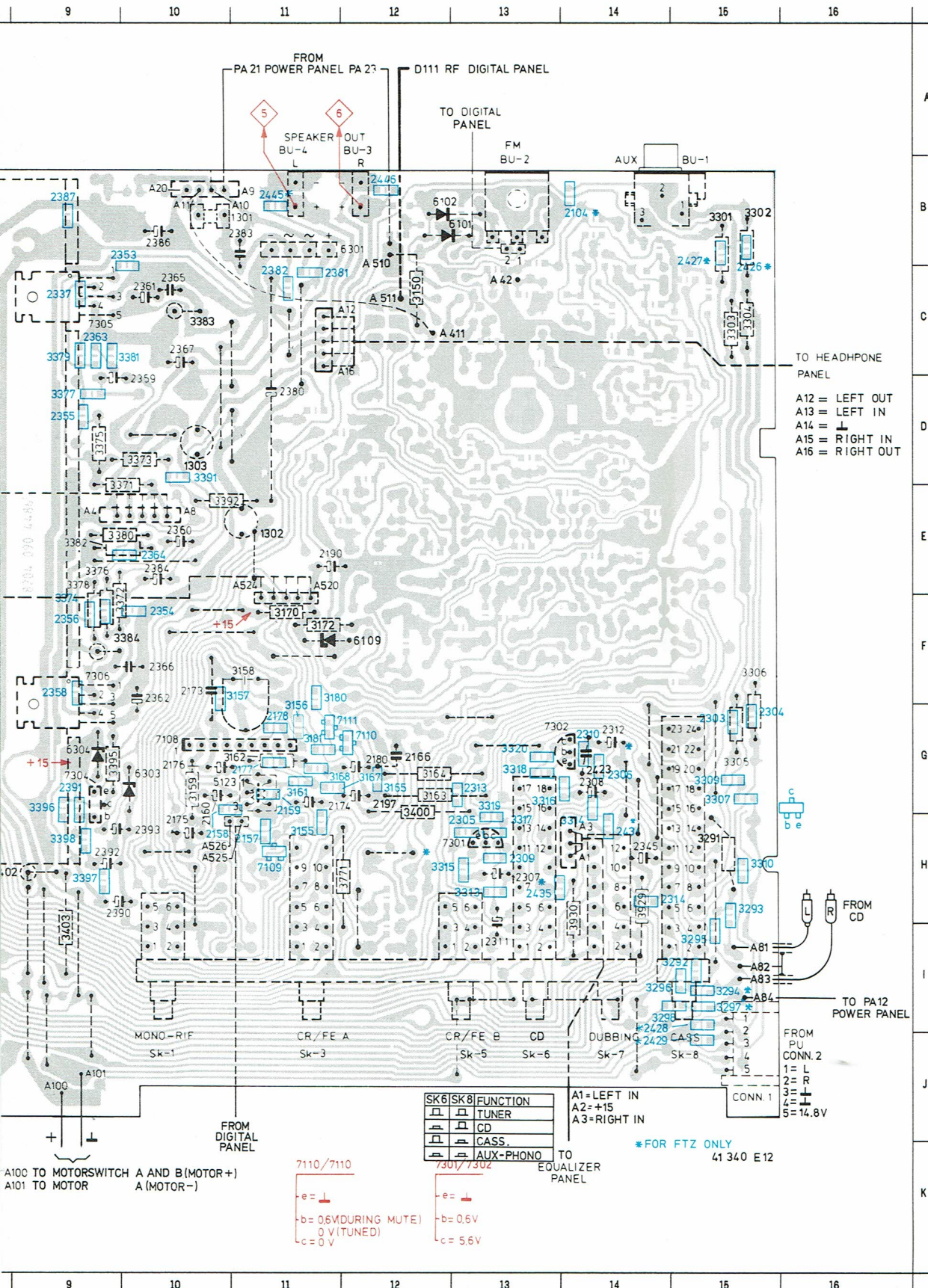


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2384	E10	2462	I 4	2704	I H	2720	G 3	2774	G 2	2912	I 8	3168	G12	3318	G13	3389	B 9	3709	I 4	3725	H 5	3741	I 3	3760	H 5	3905	J 7	3922	J 8
2386	B10	2463	I 4	2705	I H	2721	I 2	2775	G 2	2913	H 7	3180	F12	3319	G13	3391	D10	3710	H 4	3726	G 5	3742	I 3	3766	G 7	3906	J 6	3923	J 8
2387	B 9	2464	H 4	2706	H J	2722	G 3	2776	G 2	2914	H 7	3181	G11	3320	G13	3392	E11	3711	I 5	3727	G 5	3743	I 3	3767	F 5	3907	J 6	3924	J 8
2390	H10	2465	I 6	2707	I G	2723	I 3	2777	G 2	2915	J 6	3301	B15	3371	E10	3395	G10	3712	H 5	3728	G 5	3744	H 3	3768	F 4	3908	J 7	3925	J 8
2391	G 9	2466	G 6	2708	I G	2724	H 2	2778	F 2	2916	H 6	3302	B15	3372	F10	3396	G 9	3713	I 4	3729	F 5	3745	H 6	3769	G 6	3909	J 7	3926	J 8
2392	H 9	2467	G 6	2709	I G	2725	H 3	2901	J 6	2917	H 8	3303	C15	3373	D10	3397	H 9	3714	G 4	3730	G 3	3746	G 5	3770	F 4	3910	J 7	3927	J 8
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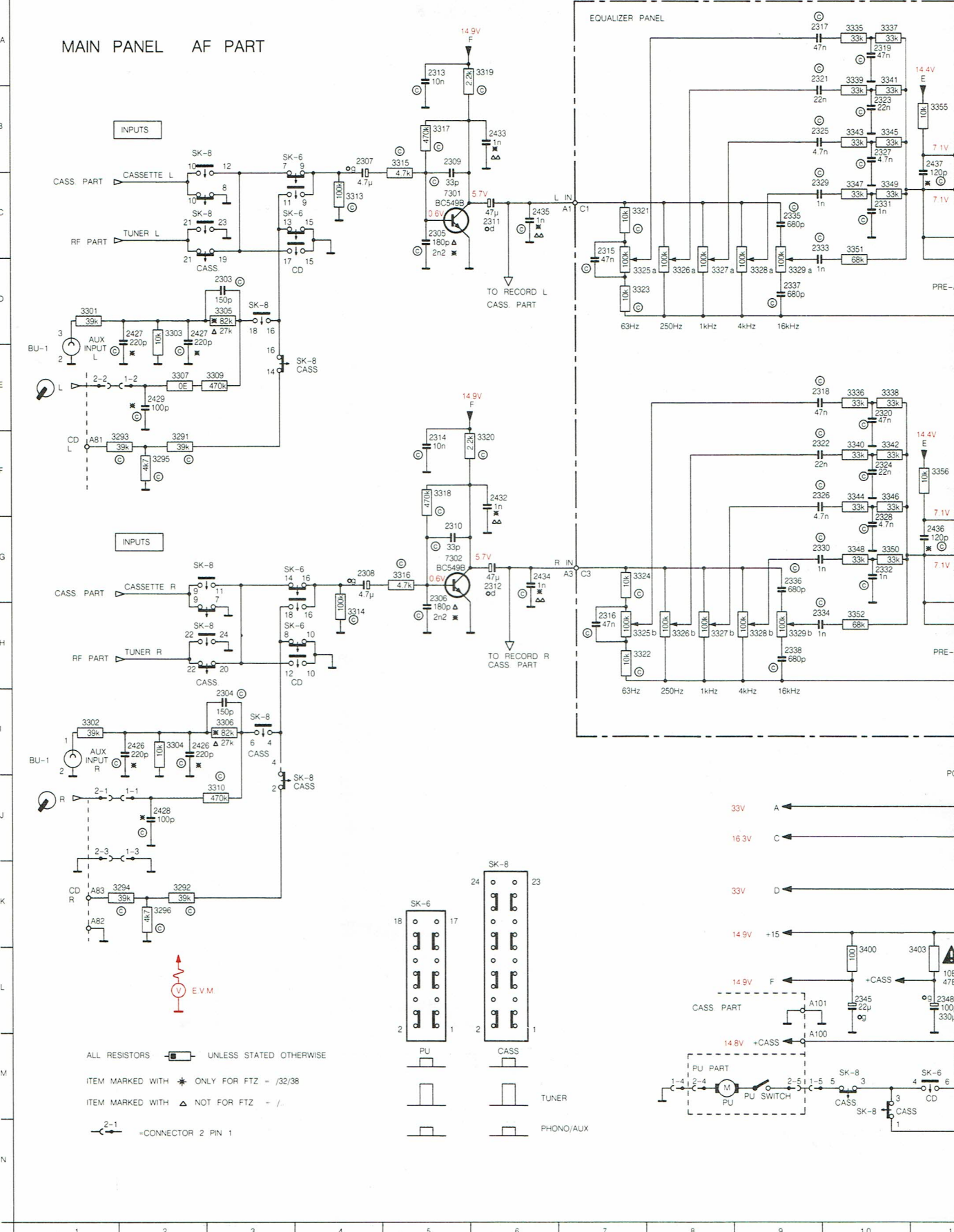


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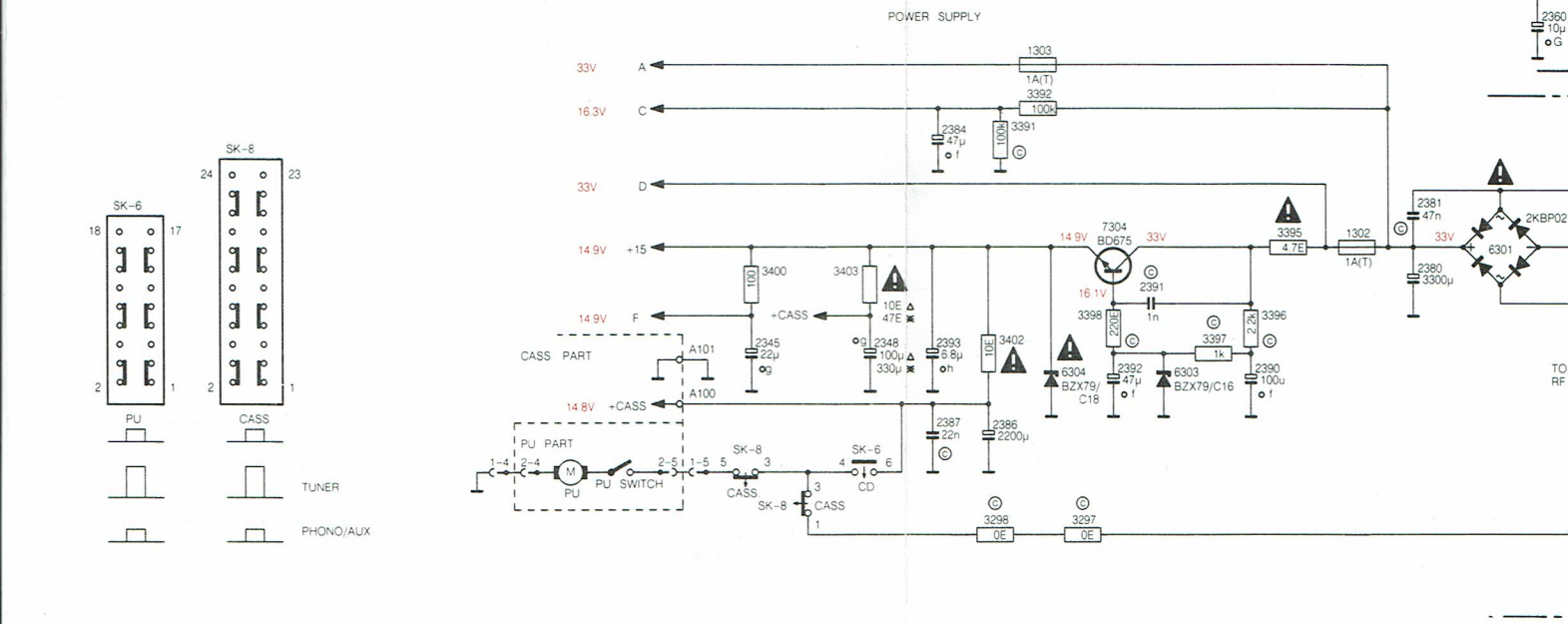
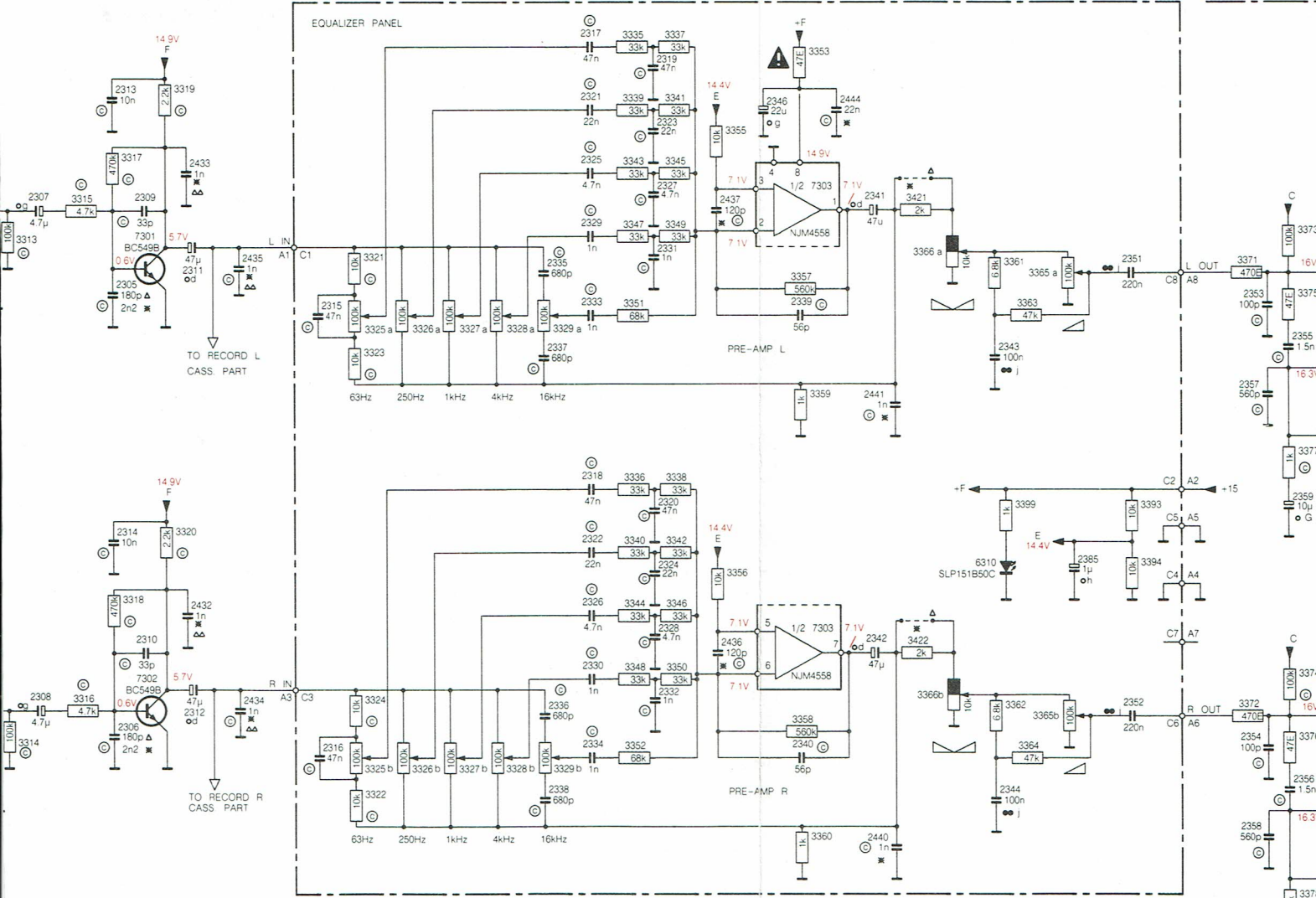
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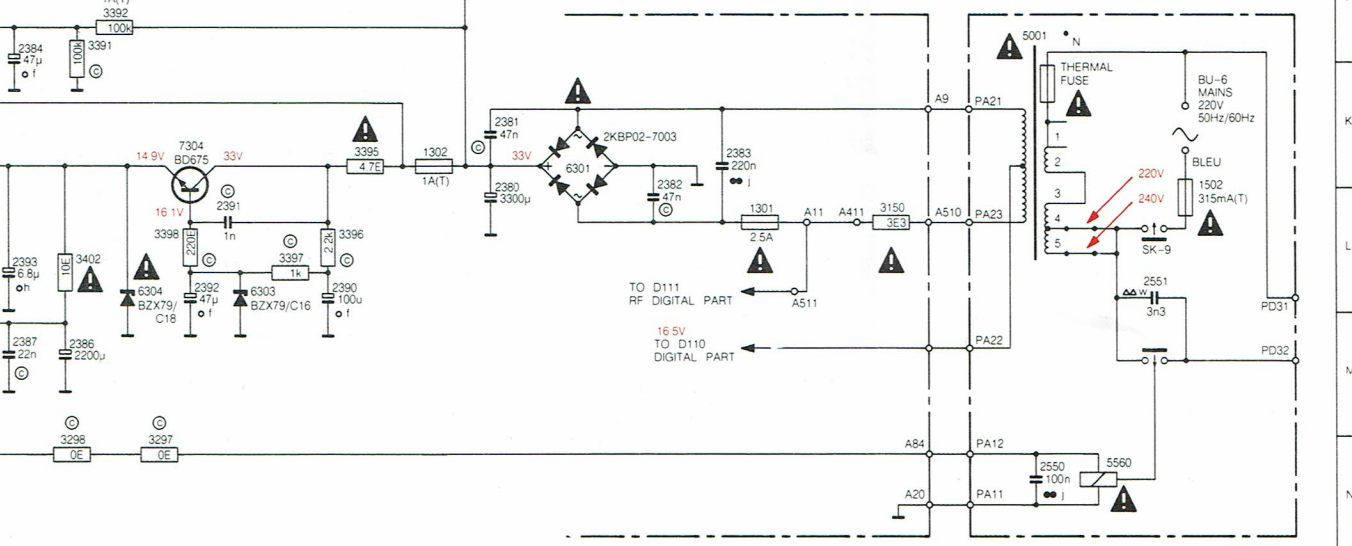
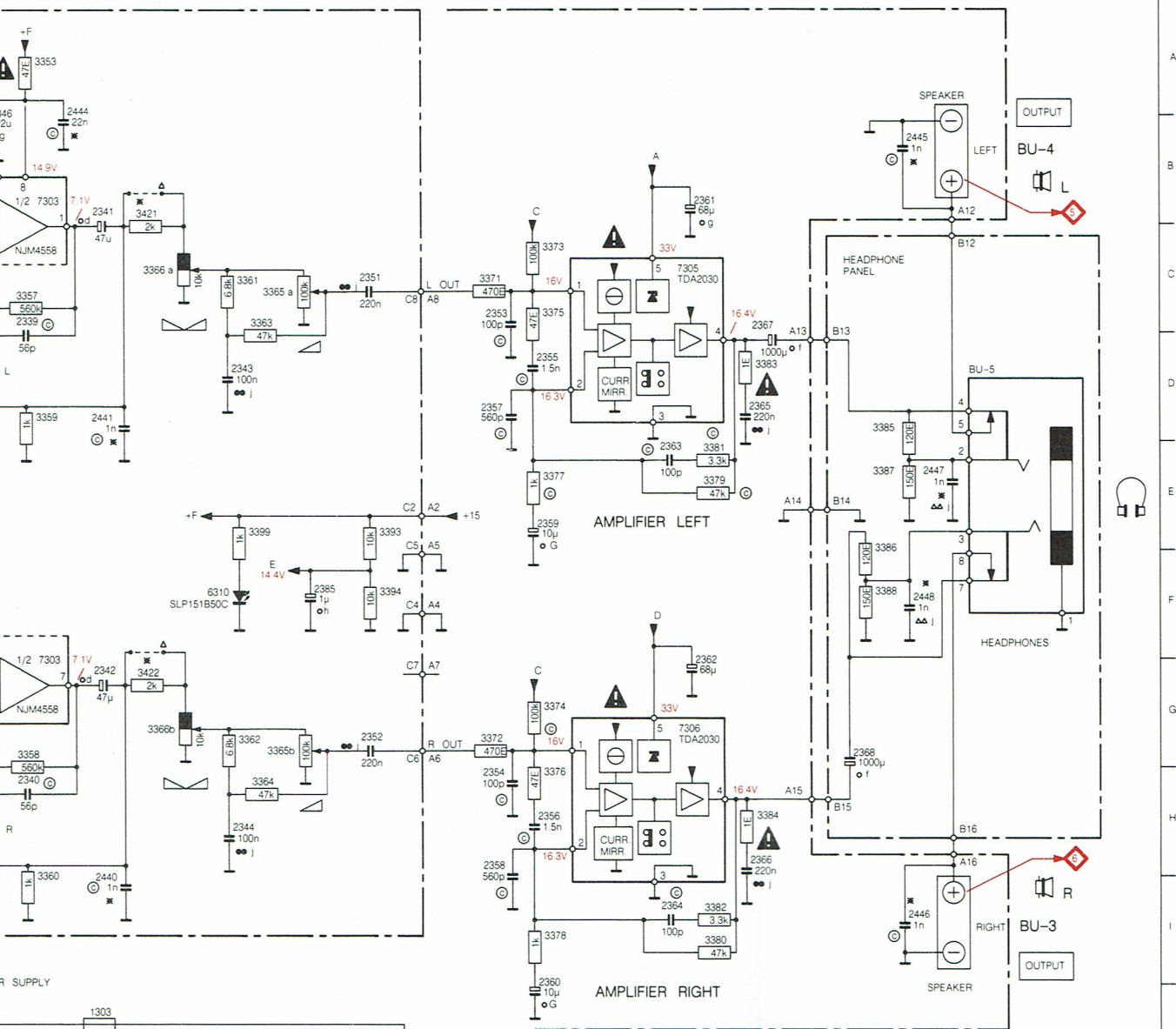
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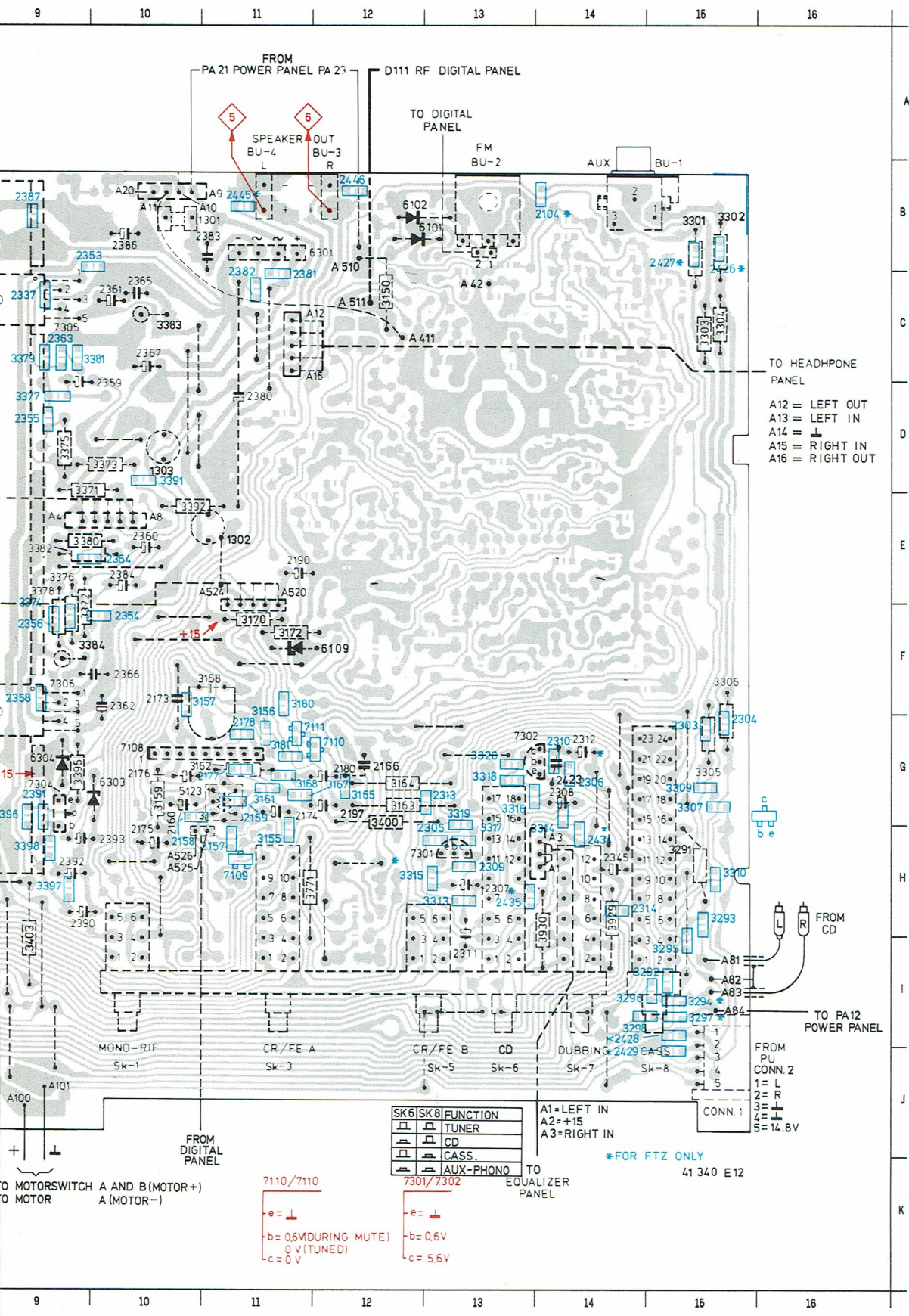
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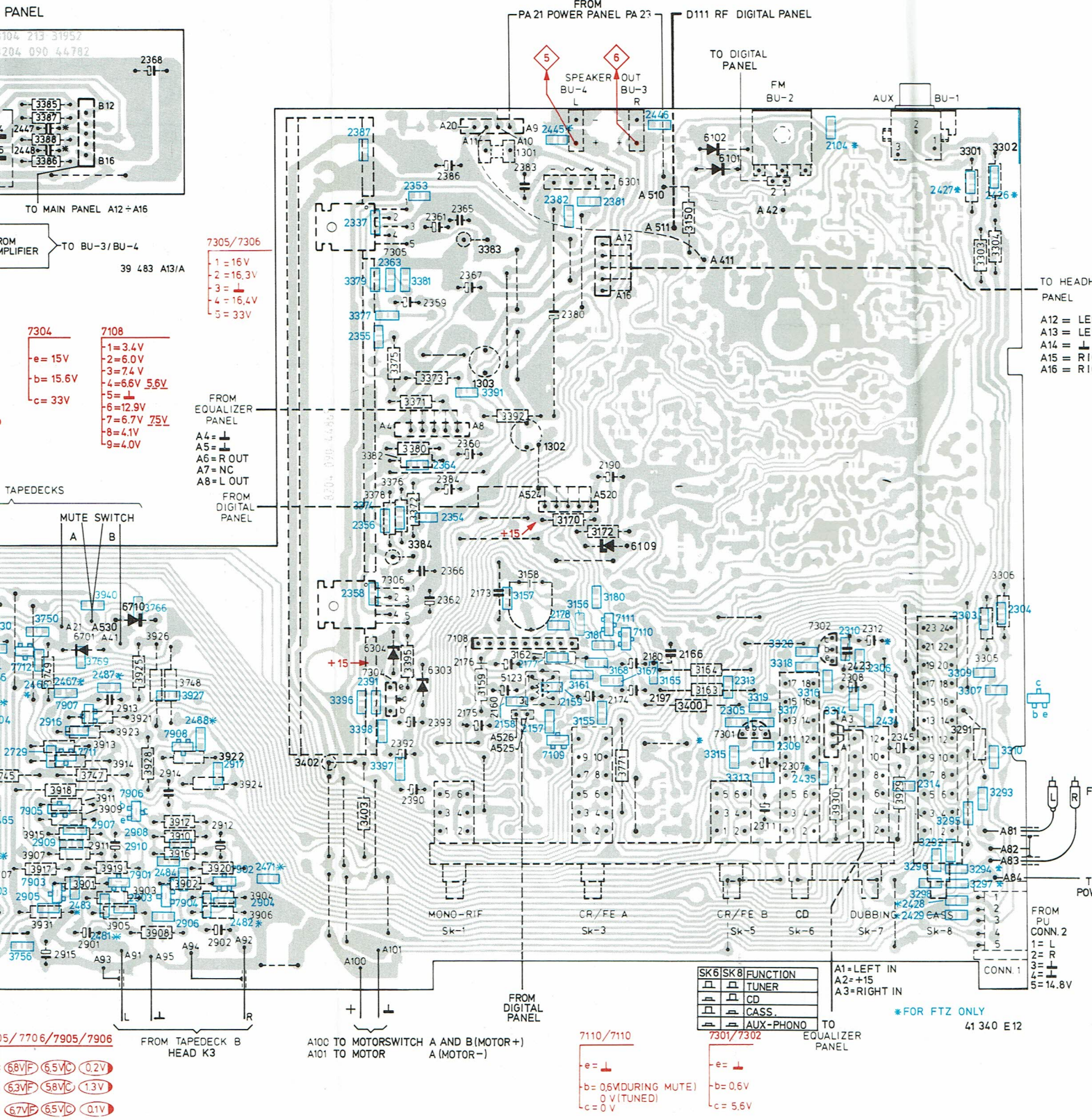


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2179	G12	2345	H14	2380	D11	2434	H14	2488	H 7	2716	G 5	2770	H 2	2908	I 7	3162	G11	3314	H14	3381	C10	3705
2180	G12	2353	B10	2381	C12	2445	B11	2649	G 3	2717	H 3	2771	F 3	2909	I 6	3163	G12	3315	H13	3382	E 9	3706
2190	E11	2354	F10	2382	C11	2446	B12	2701	J 5	2718	G 3	2772	J 2	2910	I 7	3164	G12	3316	G13	3383	C10	3707

