

PHILIPS

28 JAN. 1994

Cassette car radio 22DC710/26

Service
Service
Service



ARCHIEF			
Red.	Techn.	Art. Chef	

For repair information of the Cassette deck see Service Manual N° 4822.725.24071 of Auto Cassette Deck P6-25/2

Service Manual

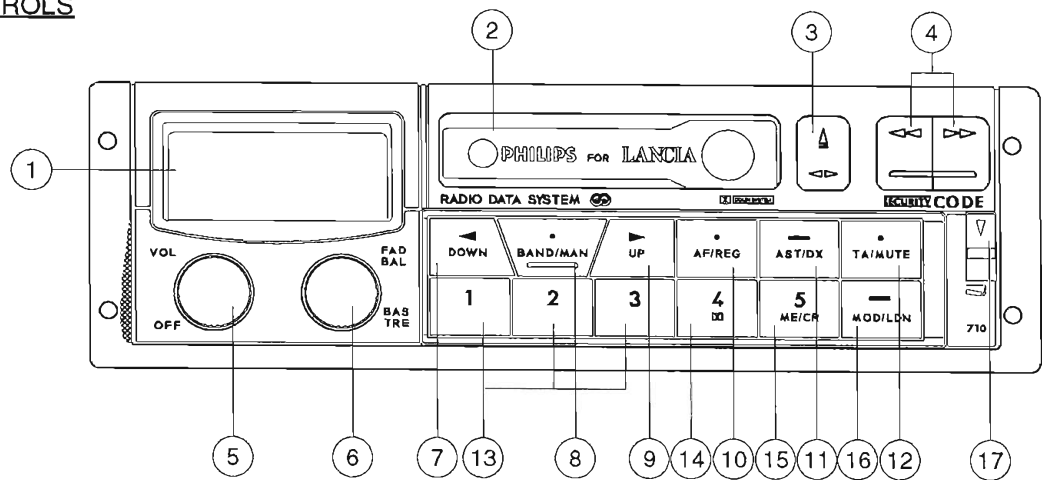
12 V

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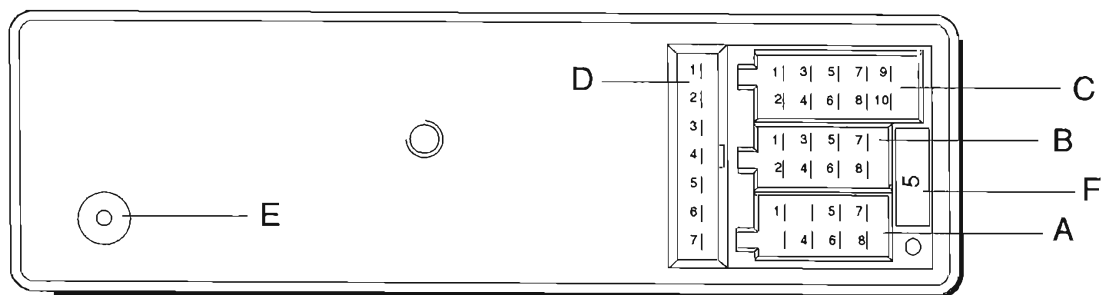
PHILIPS

CONTROLS



- | | |
|------------------------------------|--------------------------------------|
| ① Display | ⑩ Select RDS / Select Regional |
| ② Cassette Opening | ⑪ Autostore /Select Distance Mode |
| ③ Eject / Reverse Button | ⑫ Select info /Select Audio Mute |
| ④ FRW / FFW Buttons | ⑬ Preset 1 to 3 |
| ⑤ ON/OFF / Volume | ⑭ Preset 4 / Dolby |
| ⑥ Bass / Treeble / Fader / Balance | ⑮ Preset 5 / Metal - Chrome |
| ⑦ Search Down | ⑯ Select Mode (Radio -Tape) Loudness |
| ⑧ Wave Range / Manual Mode | ⑰ Release Knob for Detachable Unit |
| ⑨ Search Up | |

CONNECTIONS



A: POWER SUPPLY

- A1 : Not connected
A2 : Remote Control Ground
A3 : Remote Control Input
A4 : Permanent Plus
A5 : Switched Plus Aerial
A6 : Dashboard Illumination
A7 : Permanent Plus
A8 : Ground

E: AERIAL PLUG

F: FUSE : 5A

B: LOUDSPEAKERS

- B1 Rear Right
B2 Rear Right Ground
B3 Front Right
B4 Front Right Ground
B5 Front Left
B6 Front Left Ground
B7 Rear Left
B8 Rear Left Ground

C: NOT CONNECTED

D: NOT CONNECTED

GENERAL

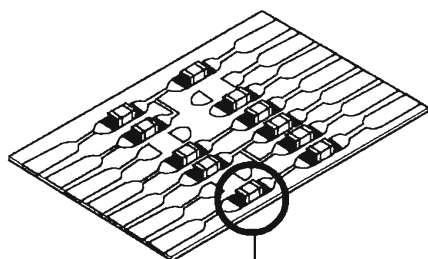
RADIO

Limitation α -3dB

Cassette mechanism	:P6-25/2
Number of tracks	:2x2
Tape speed	:4.76 cm/sec
Wow and flutter	:≤ 0.35%
Crosstalk	:≥ 30dB

Output power	:4x5W / 4Ω (D = 10%)
Treeble control	:+10/-10 ± 2dB at 10kHz
Bass control	:+14/-13 ± 2dB at 60Hz
Balance control	:-28dB
Fader	:-28dB
Mute	:-70dB

GENERAL



A cross-sectional diagram of a chip component mounted on a printed circuit board (P.C.B.). The component is a small rectangular block with a central chip. It is held in place by two solder joints on its sides. The entire assembly is mounted on a copper track on the P.C.B. A layer of glue is shown beneath the copper track, securing it to the P.C.B. substrate.



SERVICE PACKAGE

VACUUM PISTON

4822 395 10082

SOLDERING IRON

e.g. WELLER
SOLDER TIP PT-H7

OR

SOLDERING IRON

SOLDER WICK
4822 321 40042

e.g. A PAIR OF TWEEZERS

HEATING

HEATING

SOLDERING IRON

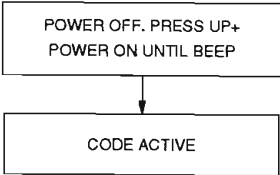
SOLDER WICK

CLEANING

The diagram illustrates correct and incorrect soldering techniques. The top row shows a correct technique labeled "RIGHT" and an incorrect technique labeled "WRONG". The bottom row shows two incorrect techniques, one labeled "SOLDERING IRON" and "NOI".

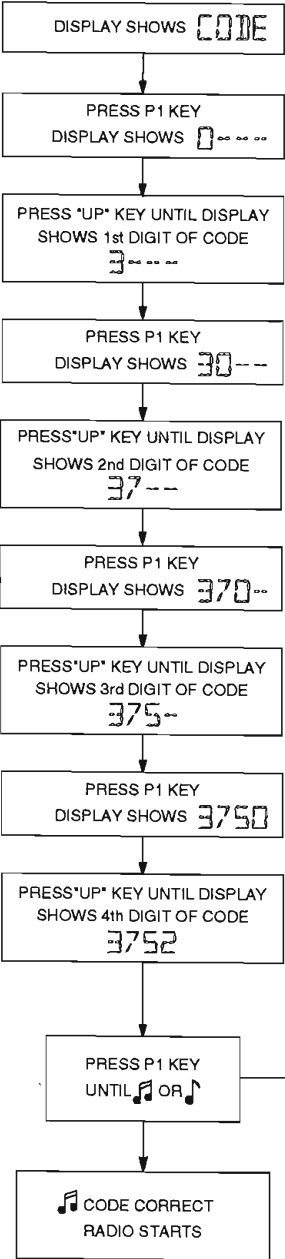
SECURITY CODE

ACTIVATING PROTECTION

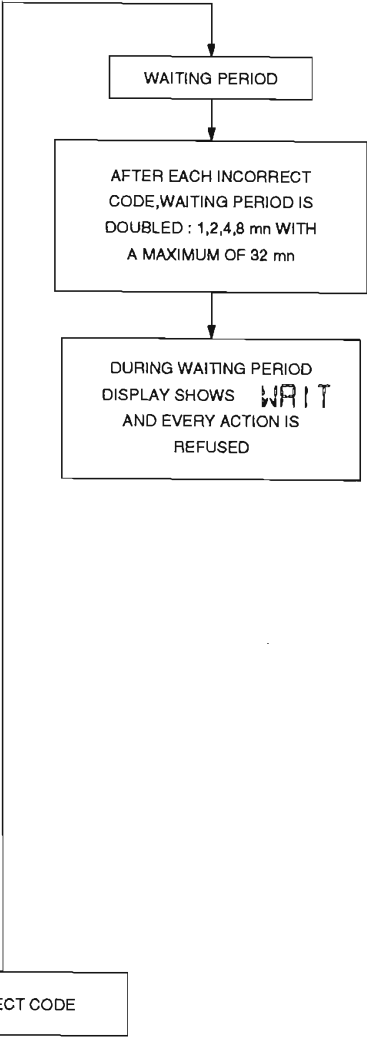
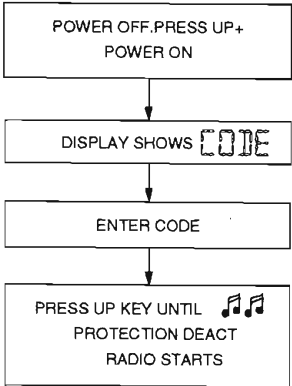


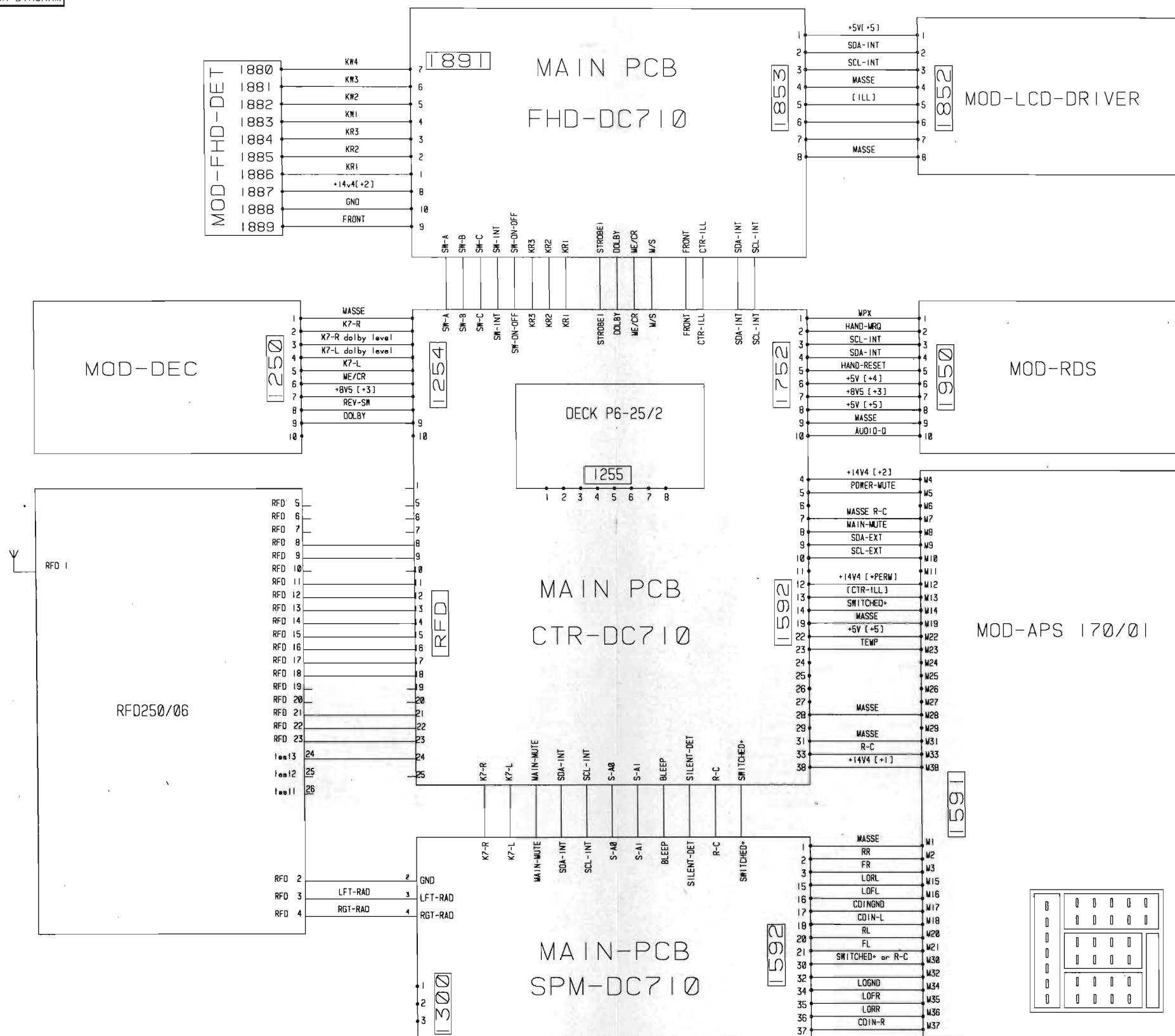
ENTERING A CODE

Example : 3752



DEACTIVATING PROTECTION



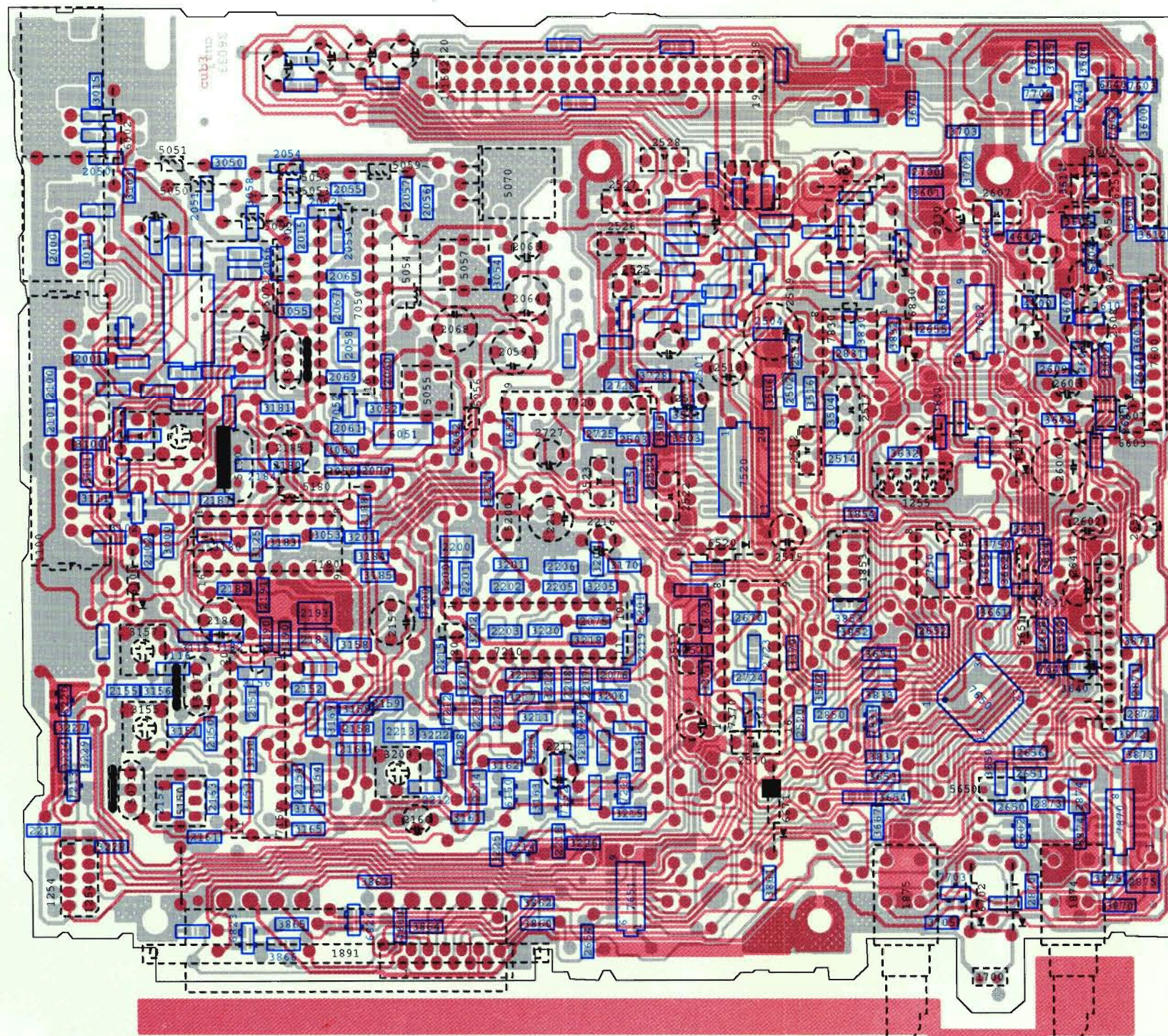


Main Panel

2059 F 6 2186 I 4 2513 D 5 2525 E 6 2603 B 5 2830 C 7 5052 H 7 5651 B 4 6631 B 5 1592 G 8 3157 I 3 5150 I 2 7370 D 3
 2063 F 7 2210 F 4 2515 D 4 2526 E 7 2605 B 7 3625 B 7 5053 H 7 6002 J 7 6671 D 2 1700 B 1 3209 G 2 5200 F 4 7600 A 6
 2064 F 6 2211 F 2 2516 E 5 2527 E 7 2607 B 7 5072 H 6 5054 G 6 6100 I 4 6702 C 1 1853 D 4 5055 G 5 5650 B 2 7601 A 7
 2068 G 6 2216 F 4 2518 E 6 2528 E 7 2608 B 6 5073 I 2 5056 G 5 6520 E 4 6830 C 6 1874 B 1 5057 G 6 7050 H 6 7720 F 5
 2157 G 4 2510 D 3 2519 D 6 2600 B 5 2640 B 4 5190 I 5 5058 H 7 6601 A 5 1100 J 5 1875 C 1 5070 F 7 7150 H 3 7750 C 4
 2160 G 2 2511 E 3 2522 E 5 2601 B 6 2657 A 4 5050 I 7 5059 G 7 6603 A 5 1254 J 2 1891 H 1 5071 H 6 7180 H 4 7830 D 6
 2185 H 5 2512 D 5 2523 F 5 2602 B 4 2727 F 5 5051 I 7 5180 H 5 6607 A 7 1255 C 5 3155 I 3 5117 I 3 7210 F 3

J I H G F E D C B A

8
7
6
5
4
3
2
1



J I H G F E D C B A

2000 J 7 2652 C 3 3216 F 3 3872 A 3
 2001 J 6 2654 F 1 3217 F 3 3873 A 2
 2015 H 7 2655 C 6 3218 F 3 3874 B 2
 2050 J 7 2656 B 2 3219 E 3 3875 A 1
 2051 I 7 2658 B 3 3220 F 3 4640 B 7
 2052 H 7 2670 D 4 3221 G 2 4652 F 5
 2053 H 7 2700 C 7 3222 G 3 4700 B 6
 2054 H 7 2723 D 3 3224 J 2 4860 G 1
 2055 H 7 2724 D 3 3225 F 2 6051 G 5
 2056 G 7 2725 F 5 3226 F 2 6150 F 2
 2057 G 7 2728 E 5 3227 J 3 6201 E 4
 2058 H 6 2750 C 4 3228 J 2 6220 J 3
 2060 G 6 2831 D 6 3229 J 2 6602 B 2
 2061 H 5 2850 D 3 3370 D 3 6604 B 7
 2062 G 5 2870 B 1 3371 E 3 6640 A 8
 2065 H 6 2871 A 3 3501 E 5 6823 H 1
 2066 H 6 2872 A 3 3502 D 3 6824 H 1
 2067 H 6 2873 B 2 3503 E 5 7052 H 5
 2069 H 6 2874 B 2 3504 D 5 7152 F 2
 2070 G 5 2875 A 1 3505 E 5 7200 G 4
 2075 F 4 3000 I 4 3506 D 5 7202 F 3
 2076 E 3 3011 J 7 3515 E 5 7211 E 2
 2100 J 5 3015 J 8 3516 D 5 7212 G 3
 2101 J 5 3050 I 7 3600 A 8 7213 J 2
 2102 I 4 3051 H 7 3601 C 7 7214 F 2
 2150 I 3 3052 G 5 3602 A 6 7520 D 5
 2151 H 3 3053 H 4 3603 A 6 7602 A 8
 2152 H 3 3054 F 6 3604 B 8 7603 A 8
 2153 I 2 3055 H 6 3605 B 7 7610 B 6
 2154 H 2 3056 H 5 3606 B 6 7631 B 4
 2155 I 3 3058 H 7 3607 B 8 7640 B 3
 2156 H 3 3060 H 5 3610 A 7 7641 B 8
 2158 H 3 3100 J 5 3611 B 7 7650 B 3
 2159 G 3 3101 J 5 3612 A 7 7651 E 1
 2161 I 2 3102 J 4 3613 A 6 7652 B 6
 2163 I 2 3103 I 7 3631 C 5 7702 B 8
 2164 H 3 3111 J 5 3632 C 5 7703 C 1
 2180 H 5 3115 I 3 3633 B 4 7831 C 3
 2182 I 4 3116 I 3 3640 B 3 7870 A 2
 2183 H 3 3125 H 4 3642 B 3
 2184 H 5 3150 H 2 3643 B 5
 2187 I 5 3151 I 3 3644 B 4
 2188 H 4 3153 H 2 3645 B 8
 2190 H 3 3154 H 2 3648 B 7
 2191 H 4 3156 I 3 3650 B 2
 2193 H 4 3158 H 3 3651 C 3
 2200 G 4 3159 H 3 3653 C 2
 2201 G 4 3161 G 2 3654 C 2
 2202 F 4 3162 F 2 3655 B 4
 2203 F 3 3163 F 2 3661 B 4
 2204 F 3 3164 H 2 3662 B 4
 2205 F 4 3165 H 2 3667 C 2
 2206 F 4 3166 E 2 3668 C 6
 2207 F 3 3169 H 3 3670 C 8
 2208 F 3 3170 E 4 3673 E 4
 2209 G 3 3180 I 4 3674 D 3
 2212 G 2 3181 H 5 3702 C 7
 2213 G 3 3182 I 3 3703 C 8
 2214 G 2 3183 H 4 3705 C 1
 2215 G 3 3184 G 4 3728 E 6
 2217 J 2 3185 G 4 3750 B 4
 2218 F 2 3190 H 3 3830 D 6
 2501 E 5 3200 G 4 3831 C 2
 2502 D 5 3201 F 4 3832 C 6
 2503 E 5 3202 G 3 3833 C 3
 2504 D 6 3203 H 4 3852 C 3
 2514 D 5 3204 F 4 3853 D 4
 2517 D 6 3205 F 4 3854 C 4
 2520 D 3 3206 E 3 3860 F 1
 2521 E 3 3207 G 3 3861 D 1
 2524 E 5 3208 G 3 3862 F 1
 2604 A 6 3210 F 3 3863 G 1
 2606 B 6 3211 F 3 3864 G 1
 2609 B 6 3212 F 3 3865 H 1
 2641 A 5 3213 F 3 3866 H 1
 2650 B 2 3214 F 5 3870 A 1
 2651 B 2 3215 E 2 3871 A 3

1

2

3

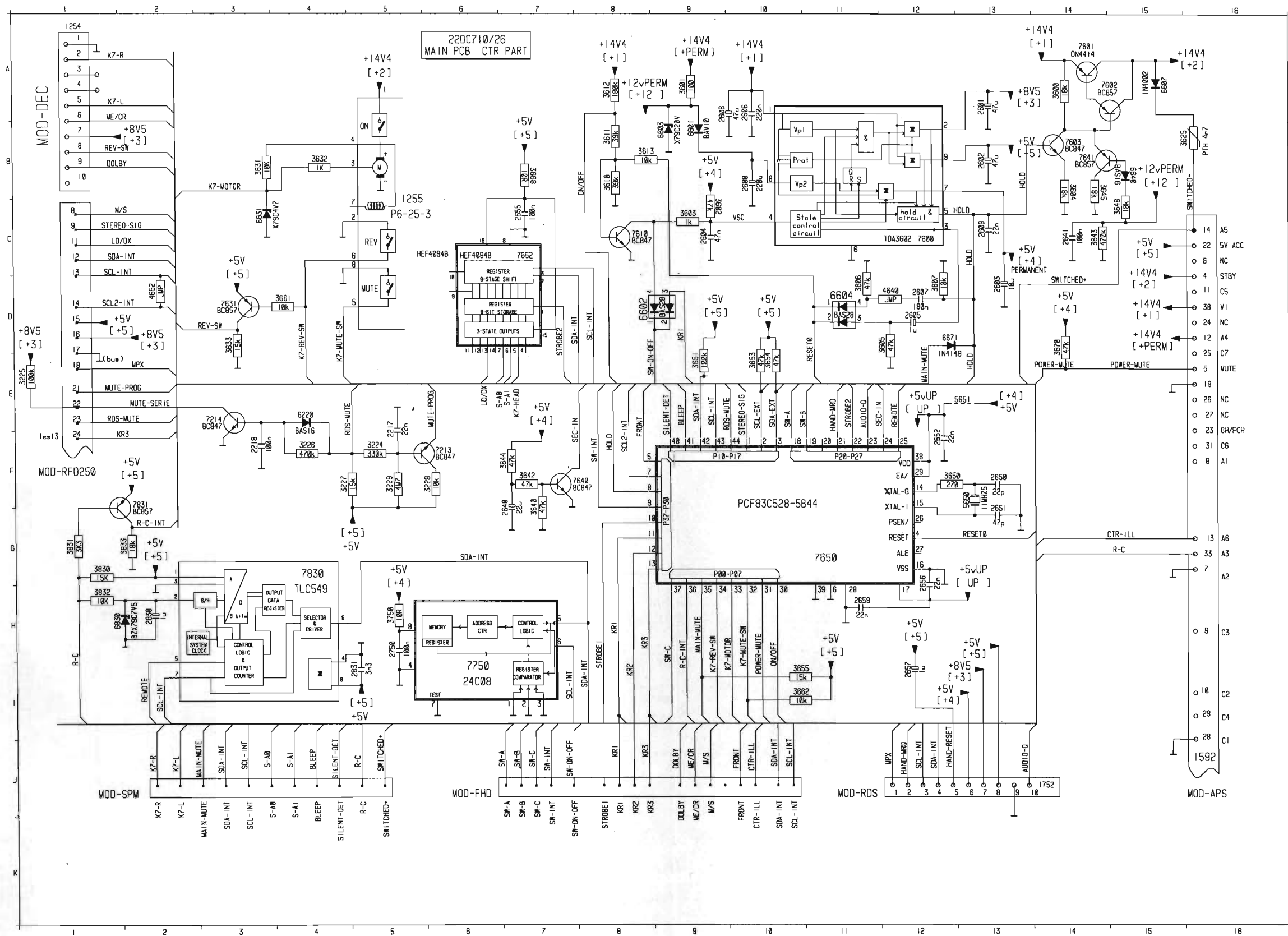
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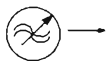
8



1254	A 1
1254	B 1
1255	C 1
1256	D 1
1532	C16
1532	D16
1532	F16
1752	J12
1752	J14
2217	E 5
2218	F 4
2608	B10
2601	A13
2602	B13
2603	D13
2604	C10
2605	D12
2606	A10
2607	D12
2608	A10
2609	C13
2610	F 7
2641	C14
2650	C13
2650	G13
2652	F13
2655	C 7
2656	G12
2656	H12
2750	H 5
2830	H 2
2831	I 5
3224	F 5
3225	E 1
3226	F 4
3227	F 5
3228	F 6
3229	A15
3600	F 4
3691	A 9
3692	C10
3693	C 9
3694	B14
3695	D13
3696	D12
3697	D12
3610	B 8
3611	B 8
3612	B 8
3613	B 8
3625	B16
3631	B 4
3632	D 3
3633	C 3
3640	F 7
3642	F 7
3643	C15
3644	F 7
3645	B15
3650	F13
3651	E 9
3652	E10
3653	E10
3654	E10
3655	I 1
3661	D 4
3662	I11
3669	B 7
3670	D14
3670	H 5
3670	G 2
3670	G 2
3831	G 1
3832	H 2
3833	G 2
4640	D12
4652	D 2
5650	F13
5651	E13
5652	E14
5691	B 9
5692	D 9
5693	B 9
5694	D11
5697	A16
6631	C 4
6640	B15
6671	D13
6830	H 2
7213	F 6
7214	E 3
7608	C12
7691	A15
7692	A15
7693	B14
7610	C 9
7631	D 3
7640	F 8
7641	B15
7650	G11
7652	C 7
7750	I 7
7830	G 4
7831	F 2
do1	A 2
do2	A 2

For checking and adjusting see general procedures

Check	SK				Setting of controls		
Demodulated FM levels	FM	98 MHz 1 mV $\Delta f = 22.5$ KHz $f_{mod} = 1$ KHz				 135 mV $\pm$ 1 dB	
		98 MHz 1 mV $\Delta f = 6.75$ KHz $f_{mod} = 19$ KHz				 40 mV $\pm$ 1 dB	
		98 MHz 1 mV $\Delta f = 3.75$ KHz $f_{mod} = 57$ KHz				 18 mV $\pm$ 3 dB	
Demodulated AM level	MW	1053 KHz 1 mV 1 KHz, 30% AM				$250 \text{ mV} \leq \text{9} \leq 500 \text{ mV}$	
VC FM	FM			87.5 MHz		 $> 1.0 \text{ V}$	
				108 MHz		 $< 6.5 \text{ V}$	
VC AM	LW			144 KHz		 $> 0.8 \text{ V}$	
	MW			1611 KHz		 $< 6.5 \text{ V}$	
Search level AM	MW	990 KHz 70 μ V				 1.75 V DC $\pm$ 0.1 V	
FM mute		93 Mhz 1 mv				  0 dB (775mV)	
		no signal				  $< -18 \text{ dB}$	

Adjustment	SK					
Quad detector	FM	93 MHz 40 μ V $\Delta f = 22.5$ KHz		93 MHz	5150	 $\leq 200 \text{ mV}$ 
FM limiting sensivity	FM	93 MHz 13 μ V $\Delta f = 22.5$ KHz $f_{mod} = 1$ KHz		93 MHz	3155	 1.6 V $\pm$ 0.1V
Search level AM	MW	990 KHz 70 μ V unmodulated		990 KHz	3175	 1.75 V $\pm$ 0.1V

ESD



WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

DC VOLTAGES

1100 TUNER MODULE

1 = GND	8 = 1.6 V
2 = 0.0 V	9 = GND
3 = GND	10 = 1.8 V
4 = 0.0 V	11 = 0.0 V
5 = 1.8 V FM / 0.0 V AM	12 = 8.5 V AM / 0.2 V FM
6 = 8.5 V	13 = 1.8 V
7 = 1.3 V - 5.7 V	

7050 TEA6200

1 = 6.3 V AM	11 = 6.9 V AM
2 = 4.0 V AM	12 = 2.9 V AM
3 = 8.5 V AM	13 = 5.0 V AM
4 = 8.5 V AM	14 = 8.5 V AM / 0.2 V FM
5 = 8.5 V AM	15 = 4.7 V AM
6 = 7.3 V AM	16 = 4.7 V AM
7 = 1.4 V AM	17 = GND
8 = 4.0 V AM	18 = 5.7 V AM
9 = 4.0 V AM	19 = 1.0 V AM
10 = 4.0 V AM	20 = 5.7 V AM

7150 TEA 6100

1 = 8.5 V	11 = 4.3 V
2 = 0.7 V	12 = 4.5 V
3 = 2.6 V - 5.0 V	13 = 4.5 V
4 = 0.0 V	14 = 2.5 V
5 = 2.0 V	15 = 4.3 V
6 = 0.2 V	16 = 2.9 V
7 = GND	17 = 2.9 V
8 = 8.5 V	18 = 2.9 V
9 = 4.8 V SCL	19 = 2.9 V
10 = 4.8 V SDA	20 = GND

7180 TSA6057

1 = 4 MHz	9 = 0.3 V
2 = 4 MHz	10 = 4.7 V SDA
3 = 4.7 V	11 = 4.7 V SCL
4 = GND	12 = GND
5 = 1.8 V	13 = 1.3 V - 5.7 V FM
6 = 1.5 V	14 = 2.1 V
7 = 1.8 V	15 = 1.9 V - 3.4 V AM
8 = 0.2 V FM / 8.5 V AM	16 = 8.4 V

7210 TDA1591

1 = 4.7 V	11 = 3.8 V
2 = 5 MHz	12 = 3.8 V
3 = GND	13 = 3.8 V
4 = 3.0 V	14 = 3.8 V
5 = 8.5 V	15 = 4.3 V
6 = 2.3 V	16 = 4.3 V
7 = 2.2 V	17 = 4.3 V
8 = 2.1 V	18 = 4.8 V
9 = 3.8 V	19 = 4.8 V
10 = 3.8 V	20 = 3.0 V

7370 HEF 4052BT

1 = 3.1 V	9 = 4.8 V
2 = 2.7 V	10 = GND
3 = 3.7 V	11 = GND
4 = GND	12 = 3.0 V
5 = GND	13 = 3.7 V
6 = 0.0 V	14 = GND
7 = GND	15 = 3.2 V
8 = GND	16 = 7.3 V

7520 TEA6330T

1 = 8.0 V	11 = 5.0 V
2 = 3.8 V	12 = 4.8 V
3 = GND	13 = 3.8 V
4 = 3.8 V	14 = 3.8 V
5 = 3.8 V	15 = 3.8 V
6 = 3.8 V	16 = 3.8 V
7 = 3.8 V	17 = 3.8 V
8 = 3.8 V	18 = 7.6 V
9 = 5.0 V	19 = 3.8 V
10 = GND	20 = 3.8 V

7651 HEF4094B

1 = 0.0 V	9 = N.C.
2 = 4.8 V	10 = N.C.
3 = 5.0 V	11 = 0.0 V Mono/ 5.0 V Stereo
4 = 0.0 V	12 = 0.0 V / 5.0 V ME/CR
5 = 0.0 V	13 = 0.0 V / 5.0 V Dolby
6 = 0.0 V	14 = N.C.
7 = 0.0 V	15 = 5.0 V
8 = GND	16 = 5.0 V

7652 HEF4094B

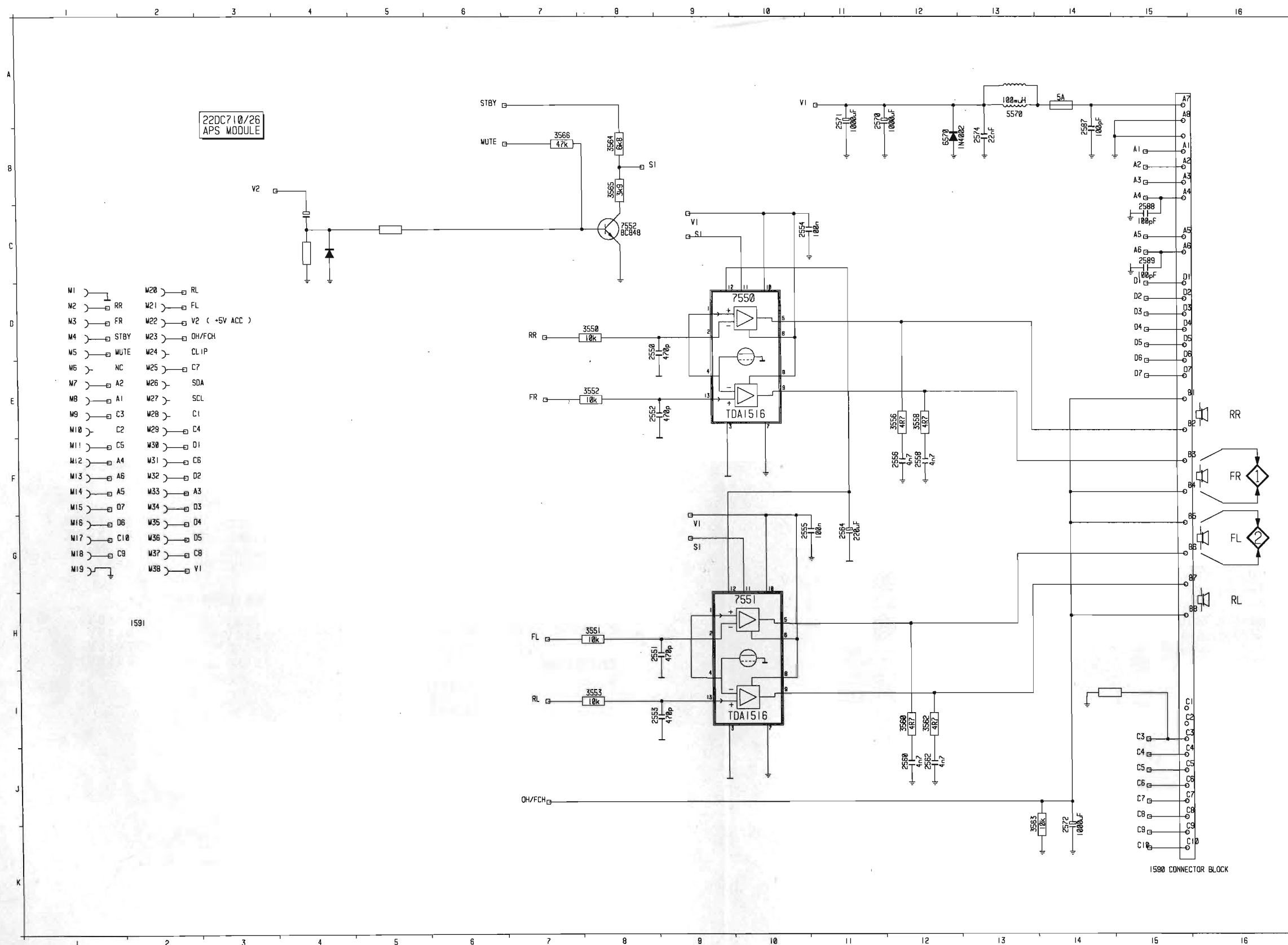
1 = 0.0 V	9 = N.C.
2 = 5.0 V	10 = N.C.
3 = 5.0 V	11 = N.C.
4 = N.C.	12 = N.C.
5 = 0.0 V	13 = 0.0 V
6 = 5.0 V	14 = N.C.
7 = 5.0 V	15 = 5.0 V
8 = GND	16 = 5.0 V

7750 24C08B6

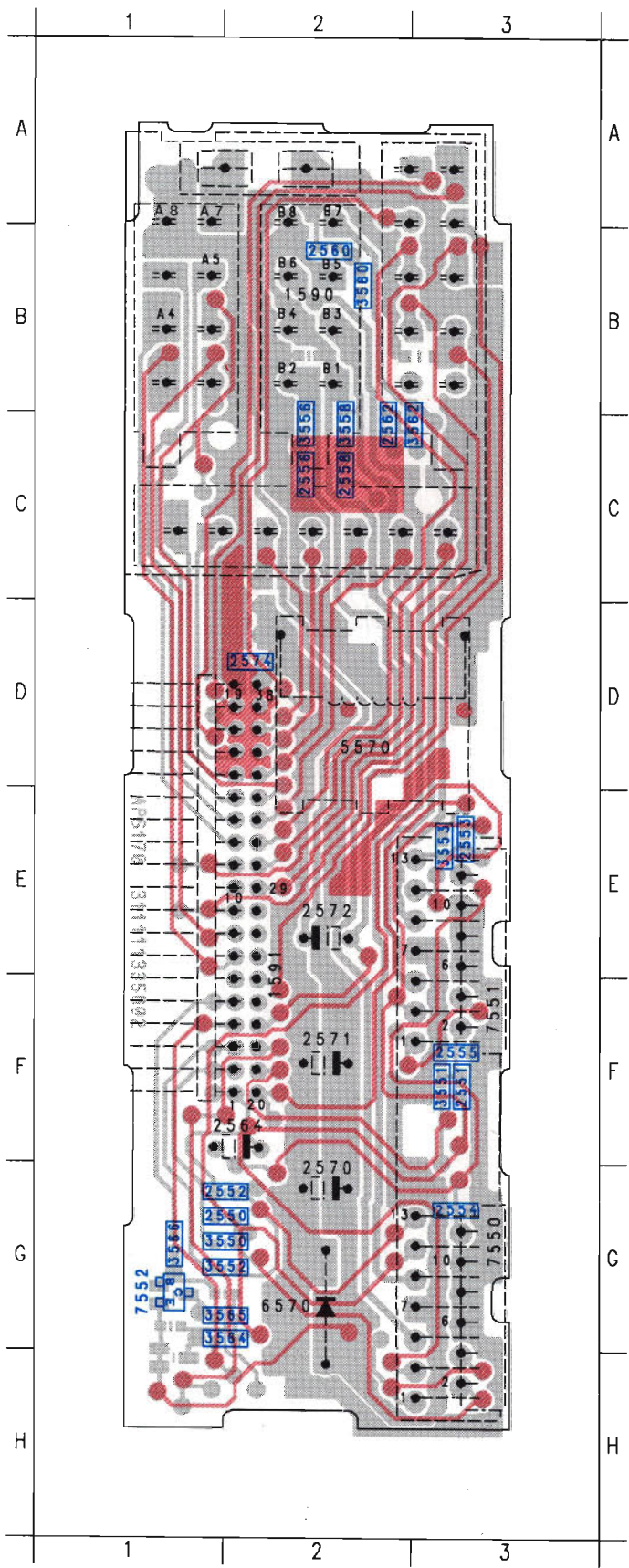
1 = GND	5 = 4.8 V SDA
2 = GND	6 = 4.8 V SCL
3 = GND	7 = GND
4 = GND	8 = 5 V

7830 TLC549

1 = 5.0 V	5 = 5.0 V
2 = 5.0 V	6 = 4.9 V
3 = GND	7 = 5.0 V
4 = GND	8 = 5.0 V

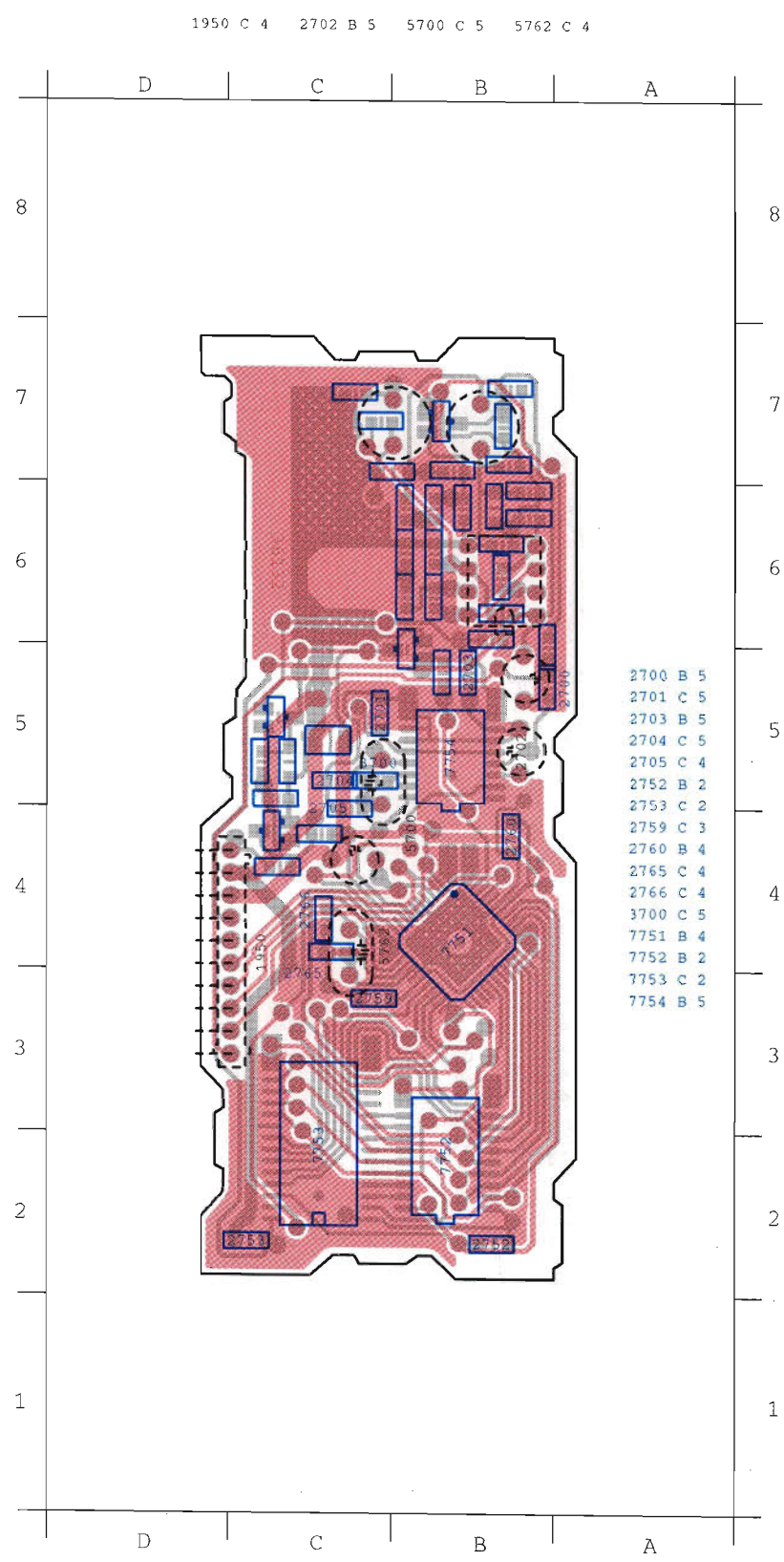


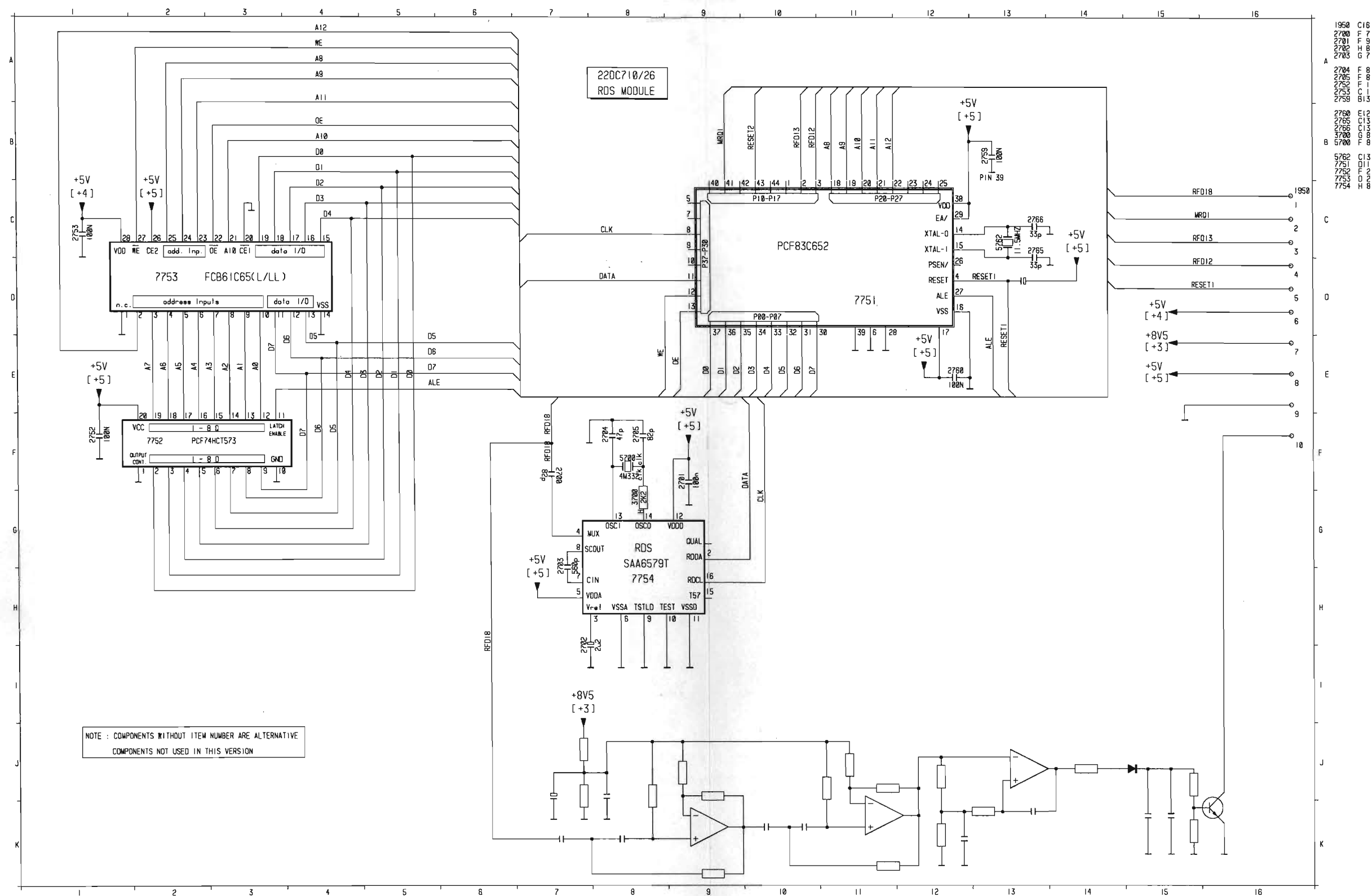
Power Module



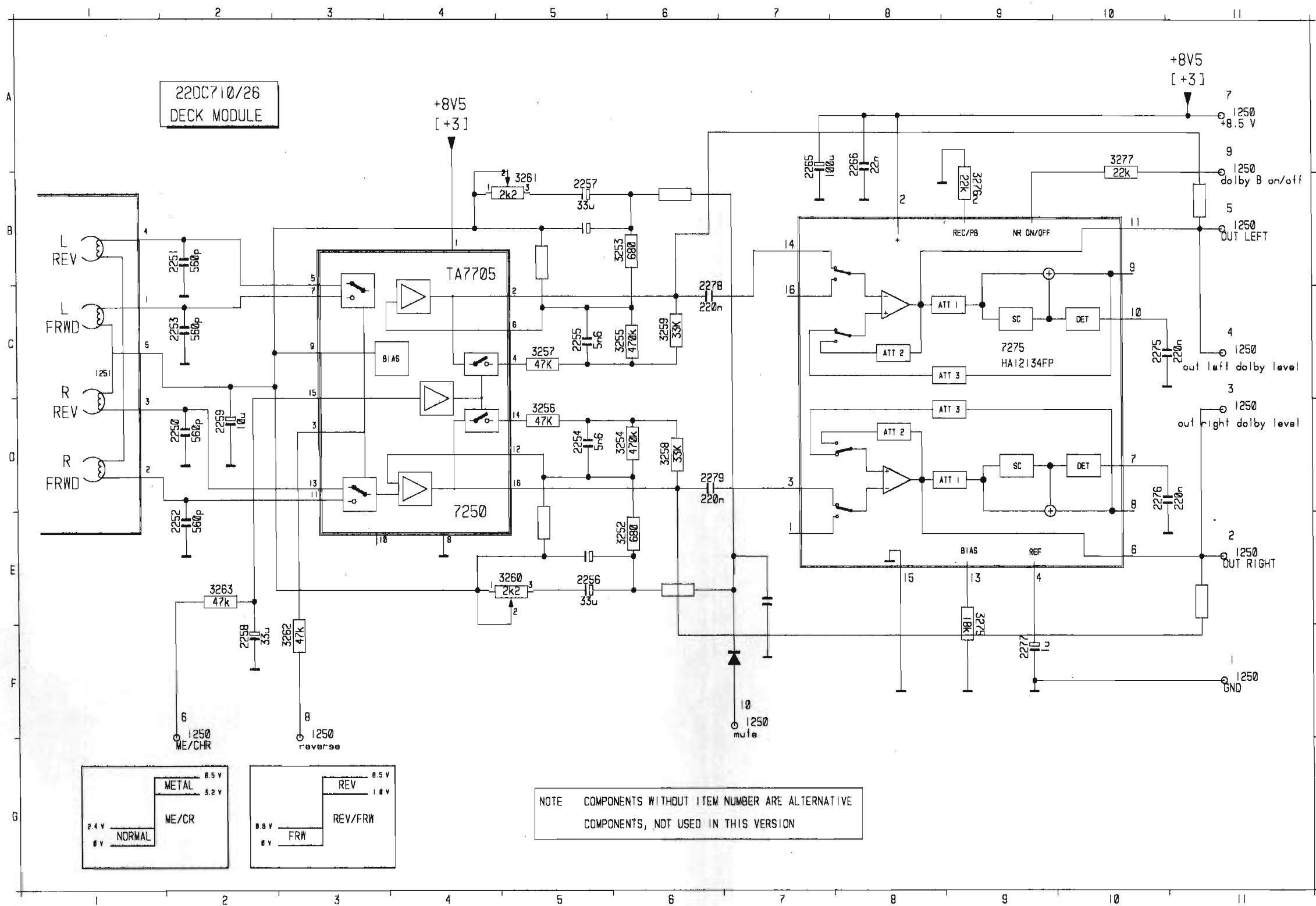
1590	2B
1591	2F
2550	2G
2551	3F
2552	2G
2553	3E
2554	3G
2555	3F
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2558	2C
2560	2B
2562	2C
2564	2F
2570	2G
2571	2F
2572	2E
2574	2D
3550	2G
3551	3F
3552	2G
3553	3E
3556	2C
3558	2C
3560	2B
3562	2C
3564	2G
3565	2G
3566	1G
5570	3D
5570	2D
5572	2D
6570	2G
7550	3G
7551	3F
7552	1G

RDS Module



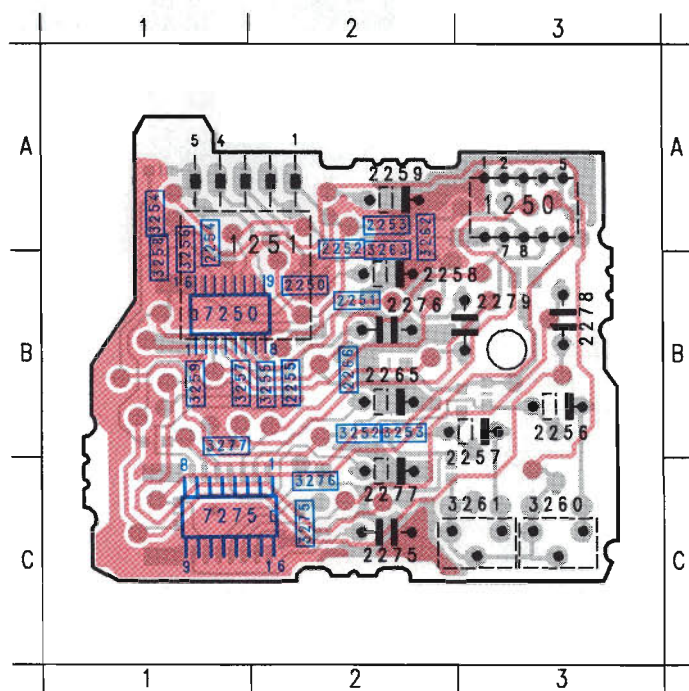


1950	C16
2700	F7
2701	F7
2702	H8
2703	H8
2704	F7
2705	F7
2706	F7
2707	F7
2708	F7
2709	F7
2710	F7
2711	F7
2712	F7
2713	F7
2714	F7
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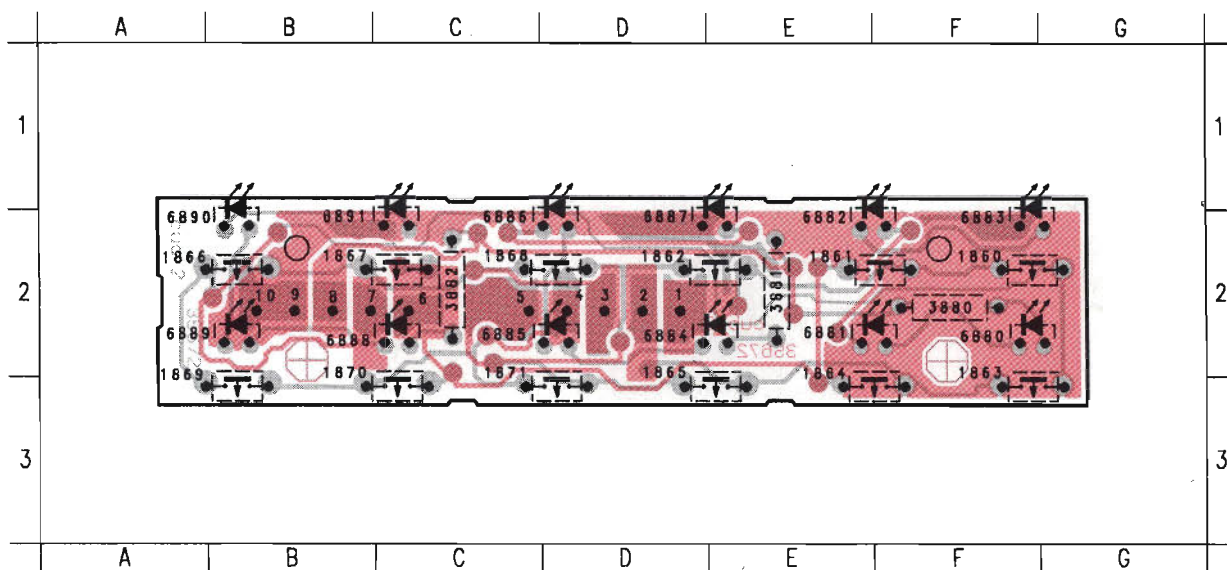
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Deck Module

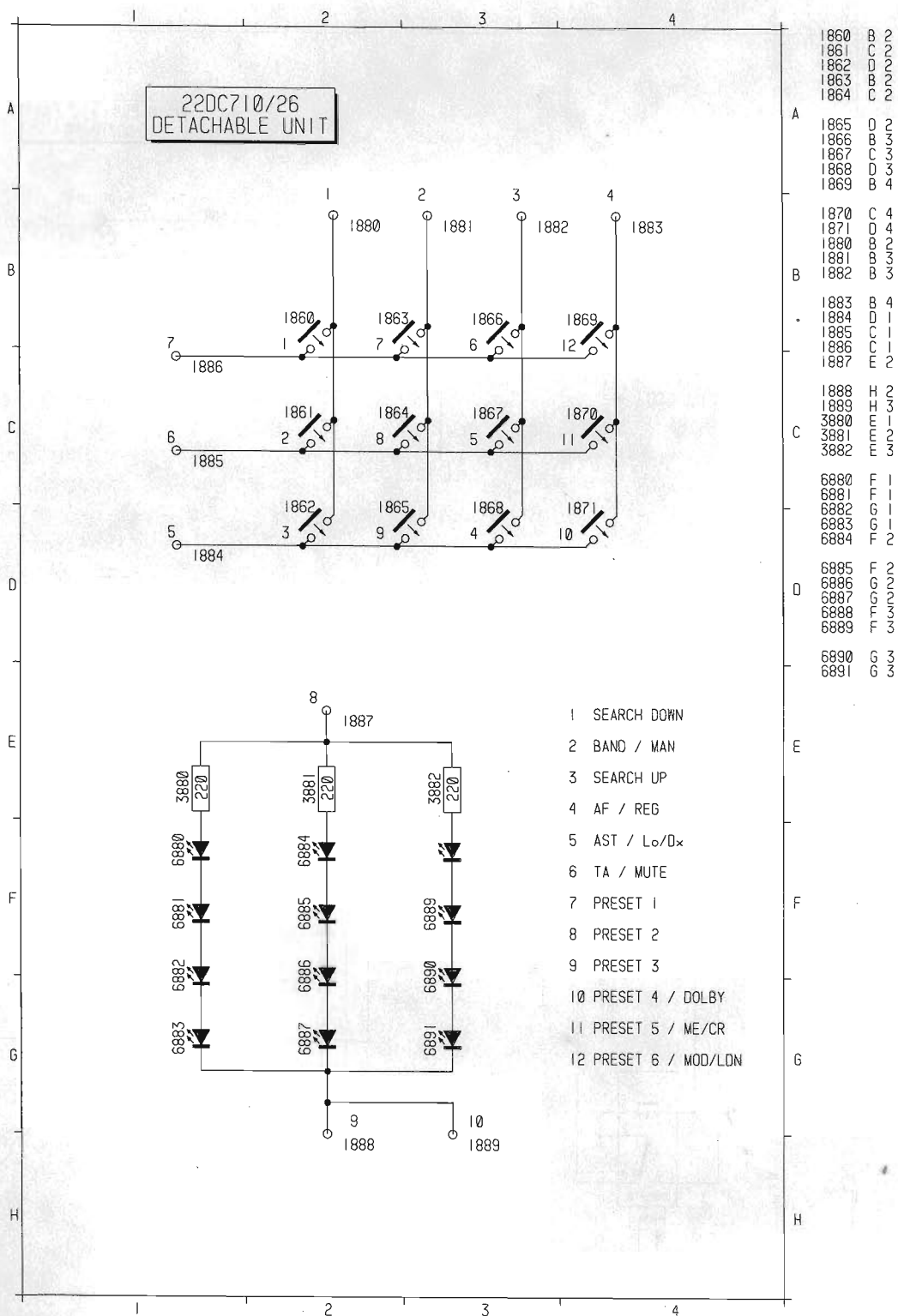


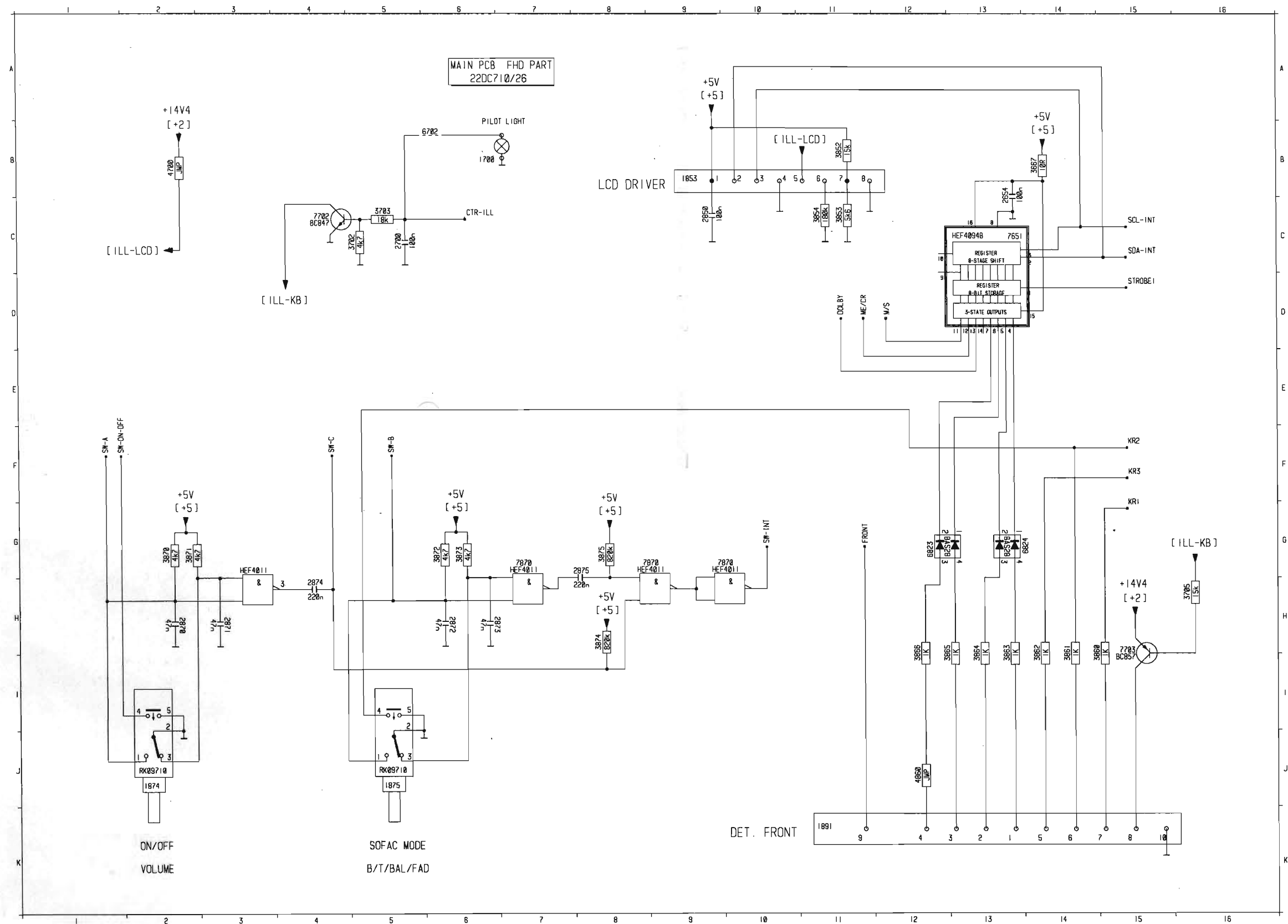
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2252	2A
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2258	2B
2259	2A
2265	2B
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2279	3B
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3253	2B
3254	1A
3255	2B
3256	1A
3257	1B
3258	1B
3259	1B
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3263	2A
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3276	2C
3277	1B
7250	1B
7275	1C

Detachable Unit

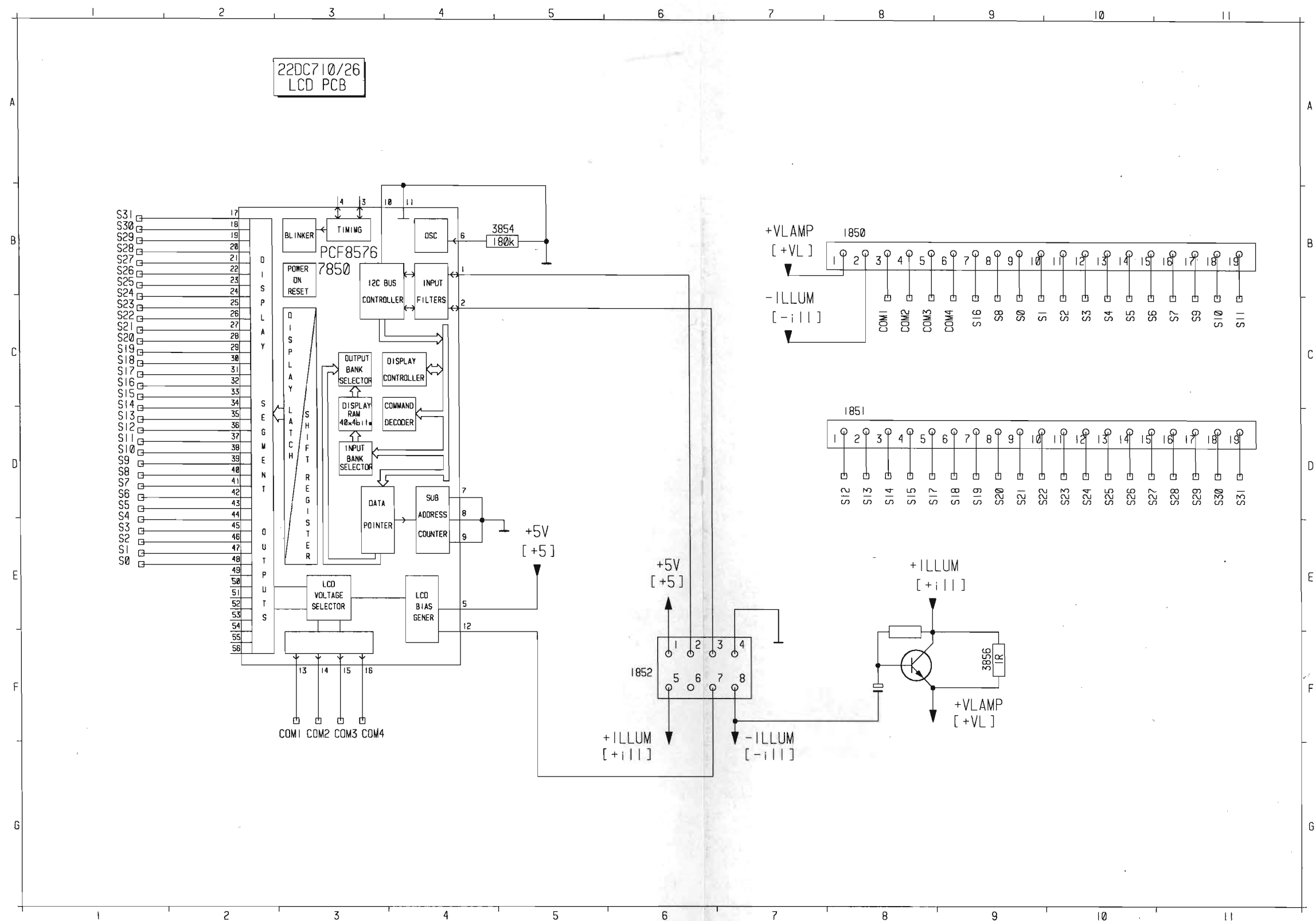


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1863	F 3
1864	E 3
1865	D 3
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1867	B 2
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1870	B 3
1871	C 3
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3881	E 2
3882	C 2
6880	F 2
6881	E 2
6882	E 2
6883	F 2
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6886	C 2
6887	D 2
6888	B 2
6889	A 2
6890	A 2
6891	B 2



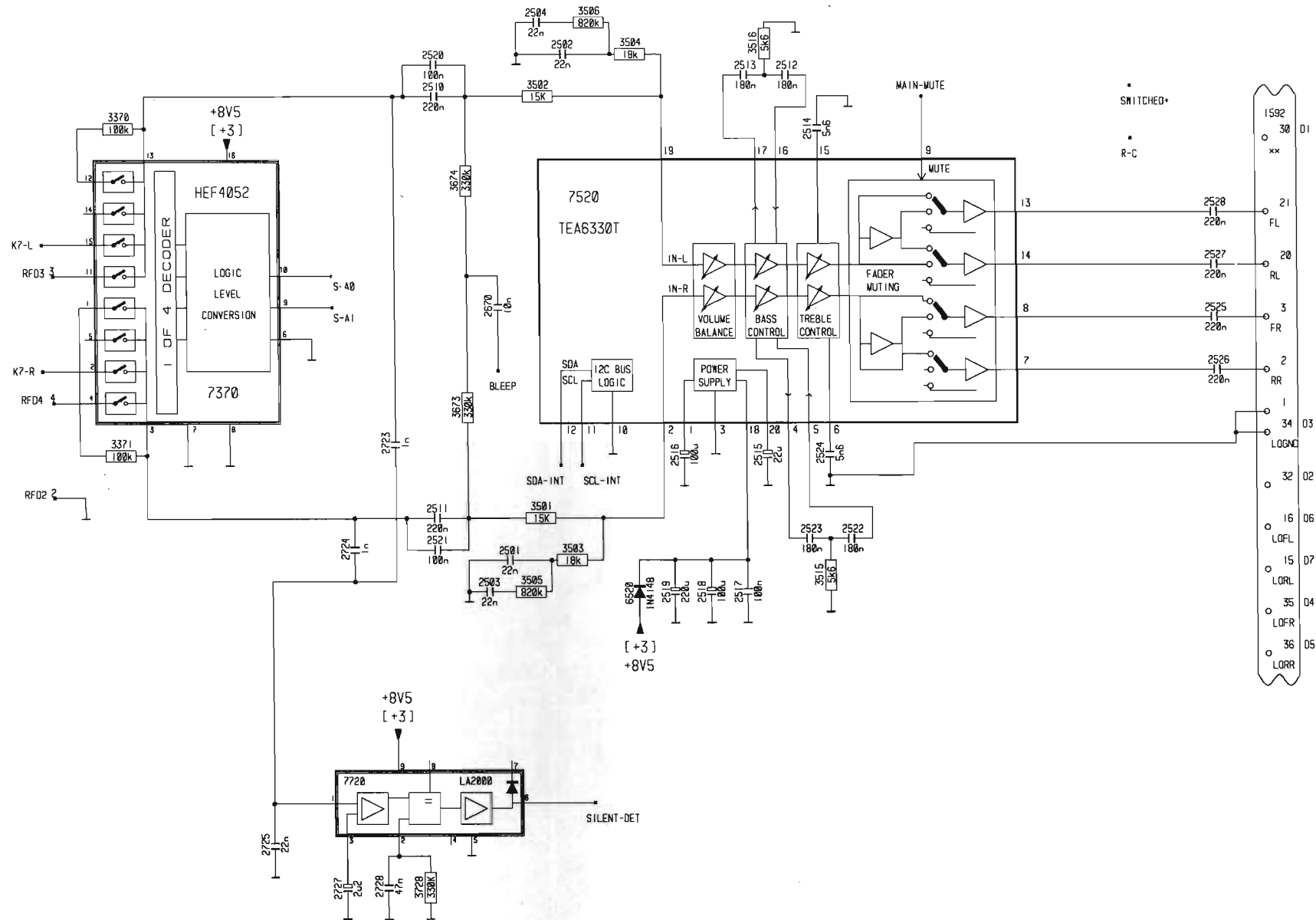


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1794	B 100



22DC710/26
MAIN PCB SPM PART

MOD-APS
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1592 C16
2501 C699
2502 C11
2503 C12
2504 B9
2510 C8
2511 C8
2512 C11
2514 C12
2515 F11
2516 F10
2517 H11
2518 H11
2519 H10
2520 C8
2521 G8
2522 G12
2523 G12
2524 F12
2525 E16
2526 F16
2527 E16
2528 F9
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2723 F8
2724 G7
2725 J9
2727 J8
2728 J8
3370 C8
3371 G8
3501 G8
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3503 G8
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3728 J8
6520 F8
7370 F8
7520 D9
7720 I7

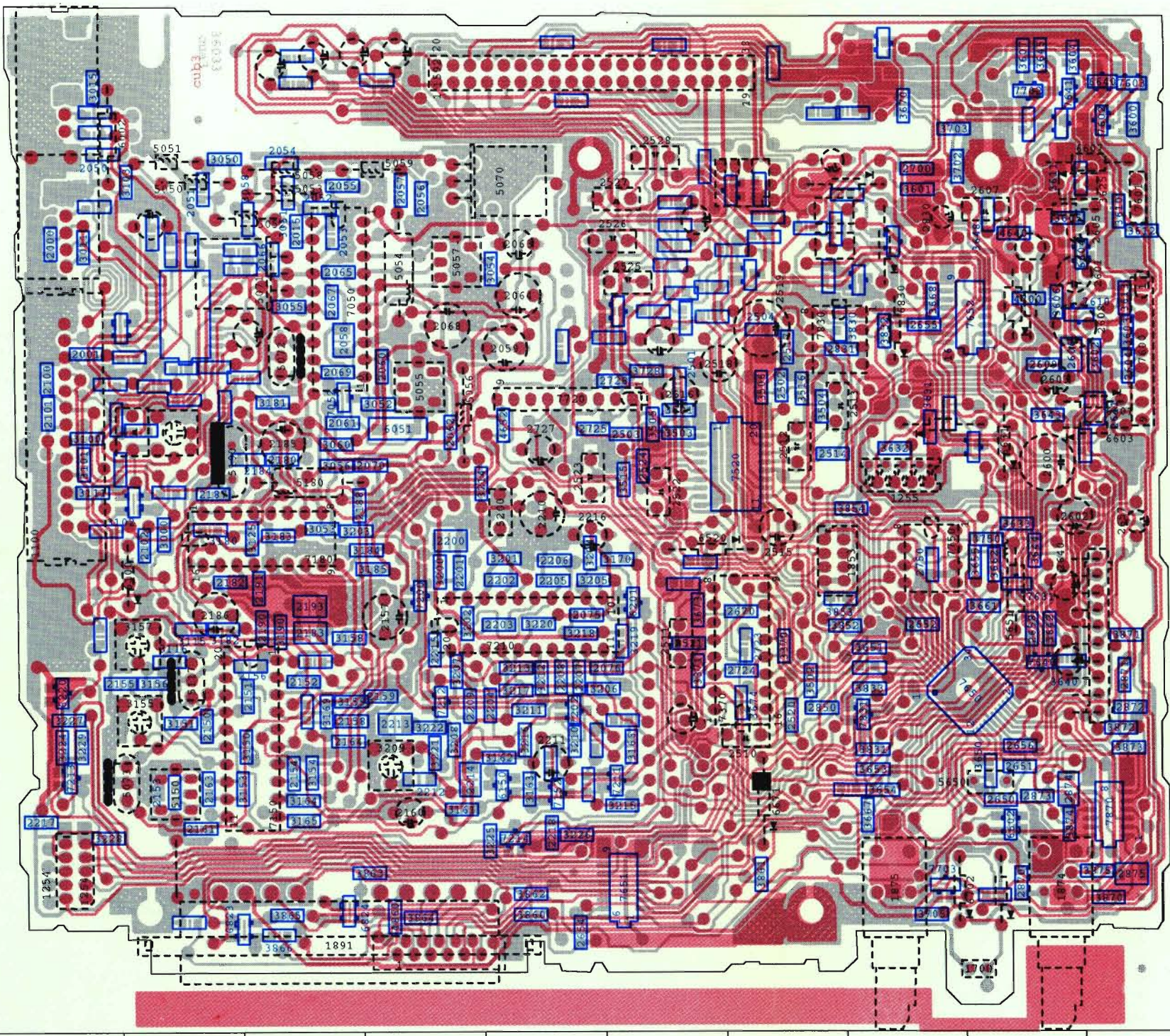
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xx
21 FL
20 RL
3 FR
2 RR
34 03
LOGND
32 02
16 06
LOFL
15 D7
LORL
35 04
LOFR
36 05
LQRR

Main Panel

2059 F 6	2186 I 4	2513 D 5	2525 E 6	2603 B 5	2830 C 7	5052 H 7	5651 B 4	6631 B 5	1592 G 8	3157 I 3	5150 I 2	7370 D 3
2063 F 7	2210 F 4	2515 D 4	2526 E 7	2605 B 7	3625 B 7	5053 H 7	6002 J 7	6671 D 2	1700 B 1	3209 G 2	5200 F 4	7600 A 6
2064 F 6	2211 F 2	2516 E 5	2527 E 7	2607 B 7	5072 H 6	5054 G 6	6100 I 4	6702 C 1	1853 D 4	5055 G 5	5650 B 2	7601 A 7
2068 G 6	2216 F 4	2518 E 6	2528 E 7	2608 B 6	5073 I 2	5056 G 5	6520 E 4	6830 C 6	1874 B 1	5057 G 6	7050 H 6	7720 F 5
2157 G 4	2510 D 3	2519 D 6	2600 B 5	2640 B 4	5190 I 5	5058 H 7	6601 A 5	1100 J 5	1875 C 1	5070 F 7	7150 H 3	7750 C 4
2160 G 2	2511 E 3	2522 E 5	2601 B 6	2657 A 4	5050 I 7	5059 G 7	6603 A 5	1254 J 2	1891 H 1	5071 H 6	7180 H 4	7830 D 6
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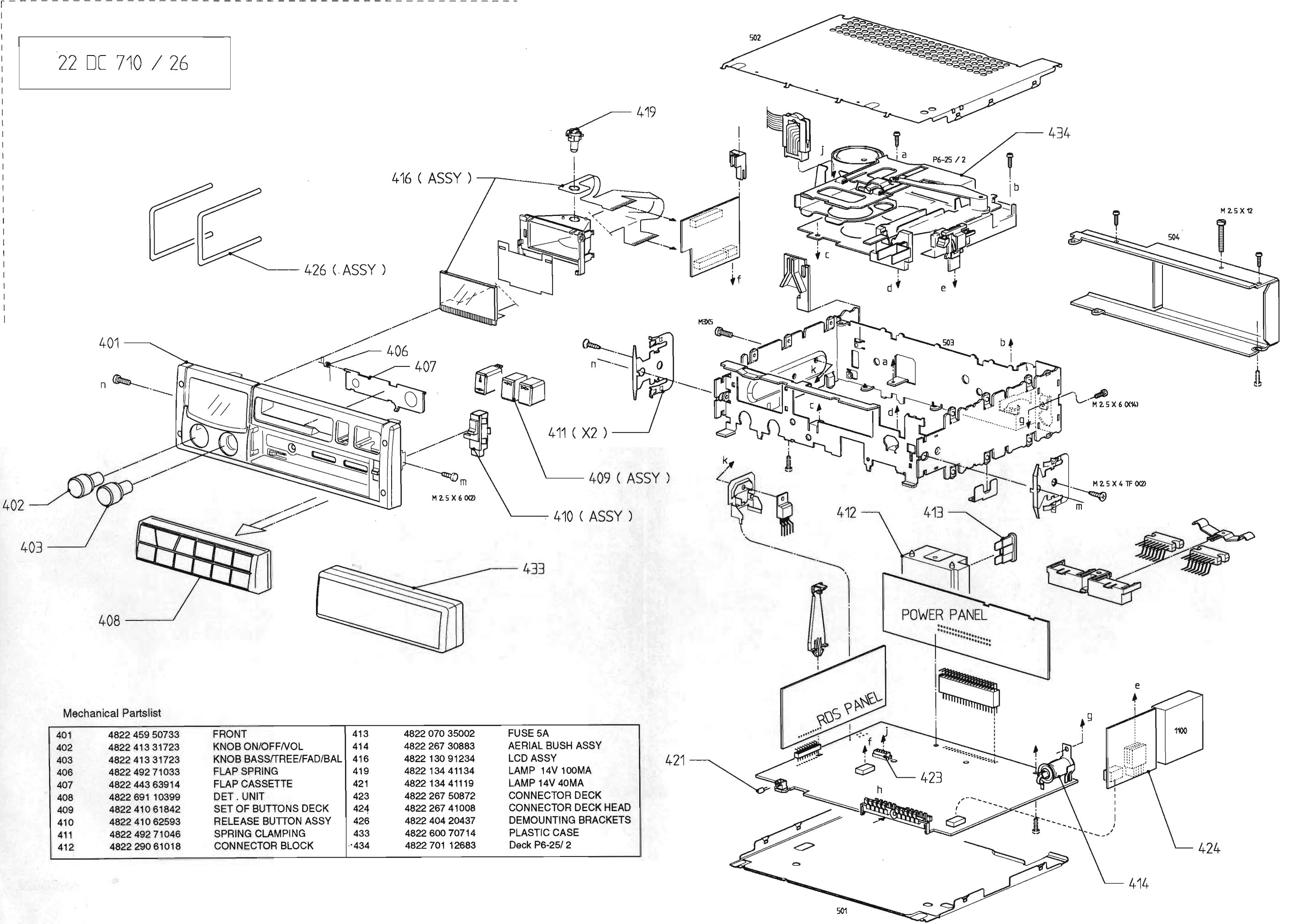
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J I H G F E D C B A

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2001 J 6	2654 F 1	3217 F 3	3873 A 2
2015 H 7	2655 C 6	3218 F 3	3874 B 2
2050 J 7	2656 B 2	3219 E 3	3875 A 1
2051 I 7	2658 B 3	3220 F 3	4640 B 7
2052 H 7	2670 D 4	3221 G 2	4652 F 5
2053 H 7	2700 C 7	3222 G 3	4700 B 6
2054 H 7	2723 D 3	3224 J 2	4860 G 1
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2056 G 7	2725 F 5	3226 F 2	6150 F 2
2057 G 7	2728 E 5	3227 J 3	6201 E 4
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2060 G 6	2831 D 6	3229 J 2	6602 B 2
2061 H 5	2850 D 3	3370 D 3	6604 B 7
2062 G 5	2870 B 1	3371 E 3	6640 A 8
2065 H 6	2871 A 3	3501 E 5	6823 H 1
2066 H 6	2872 A 3	3502 D 3	6824 H 1
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2069 H 6	2874 B 2	3504 D 5	7152 F 2
2070 G 5	2875 A 1	3505 E 5	7200 G 4
2075 F 4	3000 I 4	3506 D 5	7202 F 3
2076 E 3	3011 J 7	3515 E 5	7211 E 2
2100 J 5	3015 J 8	3516 D 5	7212 G 3
2101 J 5	3050 I 7	3600 A 8	7213 J 2
2102 I 4	3051 H 7	3601 C 7	7214 F 2
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2208 F 3	3170 E 4	3673 E 4	
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2213 G 3	3182 I 3	3703 C 8	
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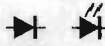
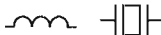
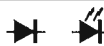
Mechanical Partslist

401	4822 459 50733	FRONT	413	4822 070 35002	FUSE 5A
402	4822 413 31723	KNOB ON/OFF/VOL	414	4822 267 30883	AERIAL BUSH ASSY
403	4822 413 31723	KNOB BASS/TREE/FAD/BAL	416	4822 130 91234	LCD ASSY
406	4822 492 71033	FLAP SPRING	419	4822 134 41134	LAMP 14V 100MA
407	4822 443 63914	FLAP CASSETTE	421	4822 134 41119	LAMP 14V 40MA
408	4822 691 10399	DET. UNIT	423	4822 267 50872	CONNECTOR DECK
409	4822 410 61842	SET OF BUTTONS DECK	424	4822 267 41008	CONNECTOR DECK HEAD
410	4822 410 62593	RELEASE BUTTON ASSY	426	4822 404 20437	DEMOUNTING BRACKETS
411	4822 492 71046	SPRING CLAMPING	433	4822 600 70714	PLASTIC CASE
412	4822 290 61018	CONNECTOR BLOCK	434	4822 701 12683	Deck P6-25/ 2

Miscellaneous			II		
1100	4822 210 10305	TUNER	2161	4822 122 33181	150pF 5% NP0 50V
1850	4822 267 60238	19 PINS	2163	4822 122 33514	68pF 5% NP0 50V
1851	4822 267 60238	19 PINS	2164	4822 122 32627	2.7nF 10% X7R 50V
1860	4822 276 13103	TACT SWITCH	2180	5322 122 32654	22nF 10% X7R 63V
1861	4822 276 13103	TACT SWITCH	2182	4822 122 32891	68nF 10% X7R 63V
1862	4822 276 13103	TACT SWITCH	2183	4822 122 32916	220nF 10% X7R 63V
1863	4822 276 13103	TACT SWITCH	2184	5322 122 32654	22nF 10% X7R 63V
1864	4822 276 13103	TACT SWITCH	2185	4822 124 23624	47μF 20% 16V
1865	4822 276 13103	TACT SWITCH	2186	4822 124 23624	47μF 20% 16V
1866	4822 276 13103	TACT SWITCH	2187	5322 122 32659	33pF 5% 50V
1867	4822 276 13103	TACT SWITCH	2188	5322 122 32654	22nF 10% X7R 63V
1868	4822 276 13103	TACT SWITCH	2190	4822 122 32542	47nF 10% X7R 63V
1869	4822 276 13103	TACT SWITCH	2191	4822 122 32597	6.8nF 10% X7R 63V
1870	4822 276 13103	TACT SWITCH	2193	4822 122 32916	220nF 10% X7R 63V
1871	4822 276 13103	TACT SWITCH	2200	4822 122 32916	220nF 10% X7R 63V
1874	4822 273 10261	POTM	2201	5322 122 32654	22nF 10% X7R 63V
1875	4822 273 10261	POTM	2202	4822 122 33496	100nF 10% X7R 63V
II			2203	4822 122 31768	180pF 2% NP0 63V
2000	4822 117 10287	R05	2204	5322 122 32268	470pF 10% 50V
2001	4822 117 10287	R05	2205	5322 122 32268	470pF 10% 50V
2015	5322 122 34098	10nF 10% X7R 63V	2206	5322 122 32654	22nF 10% X7R 63V
2050	4822 122 32597	6.8nF 10% X7R 63V	2207	5322 122 31866	6.8nF 10% X7R 63V
2051	5322 122 32287	4.7pF 5% NP0 50V	2208	5322 122 31866	6.8nF 10% X7R 63V
2052	5322 122 32448	10pF 5% 50V	2209	4822 122 33496	100nF 10% X7R 63V
2053	5322 122 32659	33pF 5% 50V	2210	4822 124 23624	47μF 20% 16V
2054	4822 122 33514	68pF 5% NP0 50V	2211	4822 124 41796	22μF 20% 16V
2055	4822 122 33515	82pF 5% NP0 63V	2212	4822 122 31766	120pF 2% NP0 63V
2056	4822 122 33514	68pF 5% NP0 50V	2213	4822 122 32916	220nF 10% X7R 63V
2057	5322 122 34098	10nF 10% X7R 63V	2214	4822 122 32916	220nF 10% X7R 63V
2058	4822 122 32916	220nF 10% X7R 63V	2215	4822 122 33216	270pF 5% NP0 50V
2059	4822 124 23624	47μF 20% 16V	2216	4822 124 41972	4.7μF 20% 50V
2060	4822 122 33216	270pF 5% NP0 50V	2217	4822 122 31797	22nF 10% X7R 63V
2061	5322 122 32654	22nF 10% X7R 63V	2218	4822 122 33496	100nF 10% X7R 63V
2062	4822 122 33216	270pF 5% NP0 50V	2250	4822 126 10333	560pF 10% X7R 63V
2063	4822 124 41969	1μF 20% 50V	2251	4822 126 10333	560pF 10% X7R 63V
2064	4822 124 23624	47μF 20% 16V	2252	4822 126 10333	560pF 10% X7R 63V
2065	4822 122 33496	100nF 10% X7R 63V	2253	4822 126 10333	560pF 10% X7R 63V
2066	5322 122 32658	22pF 5% 50V	2254	4822 122 32646	5.6nF 10% X7R 50V
2067	4822 122 33496	100nF 10% X7R 63V	2255	4822 122 32646	5.6nF 10% X7R 50V
2068	4822 124 23624	47μF 20% 16V	2256	4822 124 40272	33μF 20% 16V
2069	5322 122 34098	10nF 10% X7R 63V	2257	4822 124 40272	33μF 20% 16V
2070	5322 122 32654	22nF 10% X7R 63V	2258	4822 124 40272	33μF 20% 16V
2075	4822 122 33496	100nF 10% X7R 63V	2259	4822 124 22403	10μF 20% 16V
2076	4822 122 33496	100nF 10% X7R 63V	2265	4822 124 23432	100μF 20% 10V
2100	5322 122 32654	22nF 10% X7R 63V	2266	5322 122 32654	22nF 10% X7R 63V
2101	5322 122 34098	10nF 10% X7R 63V	2275	4822 121 42408	220nF 5% 63V
2102	5322 122 34098	10nF 10% X7R 63V	2276	4822 121 42408	220nF 5% 63V
2150	4822 122 33496	100nF 10% X7R 63V	2277	4822 124 41969	1μF 20% 50V
2151	4822 122 32542	47nF 10% X7R 63V	2278	4822 121 42408	220nF 5% 63V
2152	4822 122 32542	47nF 10% X7R 63V	2279	4822 121 42408	220nF 5% 63V
2153	4822 122 33515	82pF 5% NP0 63V	2501	5322 122 32654	22nF 10% X7R 63V
2154	5322 122 32654	22nF 10% X7R 63V	2502	5322 122 32654	22nF 10% X7R 63V
2155	4822 122 33496	100nF 10% X7R 63V	2503	5322 122 32654	22nF 10% X7R 63V
2156	4822 122 32542	47nF 10% X7R 63V	2504	5322 122 32654	22nF 10% X7R 63V
2157	4822 124 23624	47μF 20% 16V	2510	4822 121 42408	220nF 5% 63V
2158	5322 126 10223	4.7nF 10% X7R 63V	2511	4822 121 42408	220nF 5% 63V
2159	5322 126 10223	4.7nF 10% X7R 63V	2512	4822 121 51356	180nF 10% 63V
2160	4822 124 40244	2.2μF 20% 63V	2513	4822 121 51356	180nF 10% 63V
			2514	4822 122 32646	5.6nF 10% X7R 50V

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2515	4822 124 41796	22μF 20% 16V	2705	4822 122 33515	82pF 5% NP0 63V
2516	4822 124 23432	100μF 20% 10V	2723	5322 122 34123	1nF 10% X7R 50V
2517	4822 122 33496	100nF 10% X7R 63V	2724	5322 122 34123	1nF 10% X7R 50V
2518	4822 124 23432	100μF 20% 10V	2725	5322 122 32654	22nF 10% X7R 63V
2519	4822 124 23768	220μF 20% 10V	2727	4822 124 40244	2,2μF 20% 63V
2520	4822 122 33496	100nF 10% X7R 63V	2728	4822 122 32542	47nF 10% X7R 63V
2521	4822 122 33496	100nF 10% X7R 63V	2750	4822 122 33496	100nF 10% X7R 63V
2522	4822 121 51356	180nF 10% 63V	2752	4822 122 33496	100nF 10% X7R 63V
2523	4822 121 51356	180nF 10% 63V	2753	4822 122 33496	100nF 10% X7R 63V
2524	4822 122 32646	5,6nF 10% X7R 50V	2759	4822 122 33496	100nF 10% X7R 63V
2525	4822 121 42408	220nF 5% 63V	2760	4822 122 33496	100nF 10% X7R 63V
2526	4822 121 42408	220nF 5% 63V	2765	5322 122 32659	33pF 5% 50V
2527	4822 121 42408	220nF 5% 63V	2766	5322 122 32659	33pF 5% 50V
2528	4822 121 42408	220nF 5% 63V	2830	4822 124 41969	1μF 20% 50V
2550	5322 122 32268	470pF 10% 50V	2831	4822 122 33891	3,3nF 10% X7R 63V
2551	5322 122 32268	470pF 10% 50V	2850	4822 122 33496	100nF 10% X7R 63V
2552	5322 122 32268	470pF 10% 50V	2870	4822 122 32542	47nF 10% X7R 63V
2553	5322 122 32268	470pF 10% 50V	2871	4822 122 32542	47nF 10% X7R 63V
2554	4822 122 33496	100nF 10% X7R 63V	2872	4822 122 32542	47nF 10% X7R 63V
2555	4822 122 33496	100nF 10% X7R 63V	2873	4822 122 32542	47nF 10% X7R 63V
2556	5322 126 10223	4,7nF 10% X7R 63V	2874	4822 122 32916	220nF 10% X7R 63V
2558	5322 126 10223	4,7nF 10% X7R 63V	2875	4822 122 32916	220nF 10% X7R 63V
2560	5322 126 10223	4,7nF 10% X7R 63V			
2562	5322 126 10223	4,7nF 10% X7R 63V			
2564	4822 124 22711	100μF 20% 10V	3000	4822 117 10287	R05
2570	4822 124 40201	1000μF 20% 16V	3011	4822 117 10287	R05
2571	4822 124 40201	1000μF 20% 16V	3015	4822 117 10287	R05
2572	4822 124 40201	1000μF 20% 16V	3050	4822 051 20561	560Ω 5% 0,1W
2574	5322 122 32654	22nF 10% X7R 63V	3051	4822 051 20471	470Ω 5% 0,1W
2587	5322 122 32531	100pF 5% NP0 50V	3052	4822 051 20184	180K 5% 0,1W
2588	5322 122 32531	100pF 5% NP0 50V	3053	4822 051 20472	4K70 5% 0,1W
2589	5322 122 34098	10nF 10% X7R 63V	3054	4822 051 20102	1K 5% 0,1W
2600	4822 124 21519	220μF 16V	3055	4822 051 20102	1K 5% 0,1W
2601	4822 124 41506	47μF 20% 16V	3056	4822 051 20393	39K 5% 0,1W
2602	4822 124 41506	47μF 20% 16V	3058	4822 051 20474	470K 5% 0,1W
2603	4822 124 40248	10μF 20% 63V	3060	4822 051 20103	10K 5% 0,1W
2604	4822 122 32542	47nF 10% X7R 63V	3100	4822 051 20103	10K 5% 0,1W
2605	4822 124 41969	1μF 20% 50V	3101	4822 051 20109	10Ω 5% 0,1W
2606	4822 122 32916	220nF 10% X7R 63V	3102	4822 051 20471	470Ω 5% 0,1W
2607	4822 121 51356	180nF 10% 63V	3103	4822 051 20475	4M70 5% 0,1W
2608	4822 124 41506	47μF 20% 16V	3111	4822 051 20569	56Ω 5% 0,1W
2609	5322 122 32654	22nF 10% X7R 63V	3115	4822 051 20569	56Ω 5% 0,1W
2640	4822 124 41796	22μF 20% 16V	3116	4822 051 20102	1K 5% 0,1W
2641	4822 122 33496	100nF 10% X7R 63V	3125	4822 051 20102	1K 5% 0,1W
2650	5322 122 32658	22pF 5% 50V	3150	4822 051 20331	330Ω 5% 0,1W
2651	5322 122 32452	47pF 5% NP0 63V	3151	4822 051 20331	330Ω 5% 0,1W
2652	5322 122 32654	22nF 10% X7R 63V	3153	4822 051 20222	2K20 5% 0,1W
2654	4822 122 33496	100nF 10% X7R 63V	3154	4822 051 20109	10Ω 5% 0,1W
2655	4822 122 33496	100nF 10% X7R 63V	3155	4822 100 20166	10K 30% LIN 0,1W
2656	5322 122 32654	22nF 10% X7R 63V	3156	4822 051 20222	2K20 5% 0,1W
2657	4822 124 41969	1μF 20% 50V	3157	4822 100 20166	10K 30% LIN 0,1W
2658	5322 122 32654	22nF 10% X7R 63V	3158	4822 051 20109	10Ω 5% 0,1W
2670	5322 122 34098	10nF 10% X7R 63V	3159	4822 051 20681	680Ω 5% 0,1W
2700	4822 122 33496	100nF 10% X7R 63V	3161	4822 051 20683	68K 5% 0,1W
2700	4822 122 33515	82pF 5% NP0 63V	3162	4822 051 20222	2K20 5% 0,1W
2701	4822 122 33496	100nF 10% X7R 63V	3163	4822 051 20271	270Ω 5% 0,1W
2702	4822 124 40244	2,2μF 20% 63V	3164	4822 051 20273	27K 5% 0,1W
2703	4822 126 10333	560pF 10% X7R 63V	3165	4822 051 20102	1K 5% 0,1W
2704	5322 122 32452	47pF 5% NP0 63V	3166	4822 117 10287	R05

					
3169	4822 051 20331	330Ω 5% 0,1W	3505	4822 051 20824	820K 5% 0,1W
3170	4822 117 10287	R05	3506	4822 051 20824	820K 5% 0,1W
3180	4822 051 20103	10K 5% 0,1W	3515	4822 051 20562	5K60 5% 0,1W
3181	4822 051 20103	10K 5% 0,1W	3516	4822 051 20562	5K60 5% 0,1W
3182	4822 051 20331	330Ω 5% 0,1W	3550	4822 051 20103	10K 5% 0,1W
3183	4822 051 20475	4M70 5% 0,1W	3551	4822 051 20103	10K 5% 0,1W
3184	4822 051 20102	1K 5% 0,1W	3552	4822 051 20103	10K 5% 0,1W
3185	4822 051 20103	10K 5% 0,1W	3553	4822 051 20103	10K 5% 0,1W
3190	4822 051 20332	3K30 5% 0,1W	3556	4822 051 20478	4R70 5% 0,1W
3200	4822 051 20273	27K 5% 0,1W	3558	4822 051 20478	4R70 5% 0,1W
3201	4822 051 20104	100K 5% 0,1W	3560	4822 051 20478	4R70 5% 0,1W
3202	4822 051 20222	2K20 5% 0,1W	3562	4822 051 20478	4R70 5% 0,1W
3203	4822 051 20474	470K 5% 0,1W	3563	4822 051 20102	1K 5% 0,1W
3204	4822 051 20824	820K 5% 0,1W	3564	4822 051 20682	6K80 5% 0,1W
3205	4822 051 20393	39K 5% 0,1W	3565	4822 051 20392	3K90 5% 0,1W
3206	4822 051 20393	39K 5% 0,1W	3566	4822 051 20473	47K 5% 0,1W
3207	4822 051 20474	470K 5% 0,1W	3600	4822 051 20183	18K 5% 0,1W
3208	4822 051 20273	27K 5% 0,1W	3601	4822 051 20101	100Ω 5% 0,1W
3209	4822 100 11163	100K 30%LIN 0,1W	3602	4822 051 20473	47K 5% 0,1W
3210	4822 051 20471	470Ω 5% 0,1W	3603	4822 051 20102	1K 5% 0,1W
3211	4822 051 20104	100K 5% 0,1W	3604	4822 051 20183	18K 5% 0,1W
3212	4822 051 20103	10K 5% 0,1W	3605	4822 051 20473	47K 5% 0,1W
3213	4822 051 20681	680Ω 5% 0,1W	3606	4822 051 20473	47K 5% 0,1W
3214	4822 051 20109	10Ω 5% 0,1W	3607	4822 051 20103	10K 5% 0,1W
3215	4822 051 20475	4M7 5% 0,1W	3610	4822 051 20393	39K 5% 0,1W
3216	4822 051 20472	4K70 5% 0,1W	3611	4822 051 20393	39K 5% 0,1W
3217	4822 051 20103	10K 5% 0,1W	3612	4822 051 20184	180K 5% 0,1W
3218	4822 051 20472	4K70 5% 0,1W	3613	4822 051 20103	10K 5% 0,1W
3219	4822 051 20472	4K70 5% 0,1W	3625	4822 116 40216	4R7
3220	4822 051 20104	100K 5% 0,1W	3631	4822 051 20103	10K 5% 0,1W
3221	4822 051 20683	68K 5% 0,1W	3632	4822 051 20102	1K 5% 0,1W
3222	4822 051 20273	27K 5% 0,1W	3633	4822 051 20153	15K 5% 0,1W
3224	4822 051 20334	330K 5% 0,1W	3640	4822 051 20473	47K 5% 0,1W
3225	4822 051 20104	100K 5% 0,1W	3642	4822 051 20473	47K 5% 0,1W
3226	4822 051 20474	470K 5% 0,1W	3643	4822 051 20474	470K 5% 0,1W
3227	4822 051 20153	15K 5% 0,1W	3644	4822 051 20473	47K 5% 0,1W
3228	4822 051 20103	10K 5% 0,1W	3645	4822 051 20183	18K 5% 0,1W
3229	4822 051 20475	4M70 5% 0,1W	3648	4822 051 20183	18K 5% 0,1W
3252	4822 051 20681	680Ω 5% 0,1W	3650	4822 051 20271	270Ω 5% 0,1W
3253	4822 051 20681	680Ω 5% 0,1W	3651	4822 051 20104	100K 5% 0,1W
3254	4822 051 20474	470K 5% 0,1W	3653	4822 051 20473	47K 5% 0,1W
3255	4822 051 20474	470K 5% 0,1W	3654	4822 051 20473	47K 5% 0,1W
3256	4822 051 20473	47K 5% 0,1W	3655	4822 051 20153	15K 5% 0,1W
3257	4822 051 20473	47K 5% 0,1W	3661	4822 051 20103	10K 5% 0,1W
3258	4822 051 20333	33K 5% 0,1W	3662	4822 051 20103	10K 5% 0,1W
3259	4822 051 20333	33K 5% 0,1W	3667	4822 051 20109	10Ω 5% 0,1W
3260	5322 100 11541	2K2 30%lin 0,1W	3668	4822 051 20109	10Ω 5% 0,1W
3261	5322 100 11541	2K2 30%lin 0,1W	3670	4822 051 20473	47K 5% 0,1W
3262	4822 051 20473	47K 5% 0,1W	3673	4822 051 20334	330K 5% 0,1W
3263	4822 051 20473	47K 5% 0,1W	3674	4822 051 20334	330K 5% 0,1W
3275	4822 051 10183	18K 2% 0,25W	3700	4822 051 20222	2K20 5% 0,1W
3276	4822 051 20223	22K 5% 0,1W	3702	4822 051 20472	4K70 5% 0,1W
3277	4822 051 20223	22K 5% 0,1W	3703	4822 051 20183	18K 5% 0,1W
3370	4822 051 20104	100K 5% 0,1W	3705	4822 051 20153	15K 5% 0,1W
3371	4822 051 20104	100K 5% 0,1W	3728	4822 051 20334	330K 5% 0,1W
3501	4822 051 20153	15K 5% 0,1W	3750	4822 051 20109	10Ω 5% 0,1W
3502	4822 051 20153	15K 5% 0,1W	3830	4822 051 20153	15K 5% 0,1W
3503	4822 051 20183	18K 5% 0,1W	3831	4822 051 20332	3K30 5% 0,1W
3504	4822 051 20183	18K 5% 0,1W	3832	4822 051 20103	10K 5% 0,1W

					
3833	4822 051 20183	18K 5% 0,1W	6603	4822 130 34499	BZX79-C20
3852	4822 051 20153	15K 5% 0,1W	6604	5322 130 80214	BAS28
3853	4822 051 20562	5K60 5% 0,1W	6607	5322 130 30684	1N4002
3854	4822 051 20184	180K 5% 0,1W	6631	4822 130 34174	BZX79-C4V7
3854	4822 116 52252	180K 5% 0,5W	6640	5322 130 31928	BAS16
3856	4822 116 80176	1E 5% 0,5W	6671	4822 130 30621	1N4148
3860	4822 051 20102	1K 5% 0,1W	6823	5322 130 80214	BAS28
3861	4822 051 20102	1K 5% 0,1W	6824	5322 130 80214	BAS28
3862	4822 051 20102	1K 5% 0,1W	6830	4822 130 30861	BZX79-C7V5
3863	4822 051 20102	1K 5% 0,1W	6880	4822 130 83161	LED GREEN
3864	4822 051 20102	1K 5% 0,1W	6881	4822 130 83161	LED GREEN
3865	4822 051 20102	1K 5% 0,1W	6882	4822 130 83161	LED GREEN
3866	4822 051 20102	1K 5% 0,1W	6883	4822 130 83161	LED GREEN
3870	4822 051 20472	4K70 5% 0,1W	6884	4822 130 83161	LED GREEN
3871	4822 051 20472	4K70 5% 0,1W	6885	4822 130 83161	LED GREEN
3872	4822 051 20472	4K70 5% 0,1W	6886	4822 130 83161	LED GREEN
3873	4822 051 20472	4K70 5% 0,1W	6887	4822 130 83161	LED GREEN
3874	4822 051 20824	820K 5% 0,1W	6888	4822 130 83161	LED GREEN
3875	4822 051 20824	820K 5% 0,1W	6889	4822 130 83161	LED GREEN
4640	4822 117 10287	R05	6890	4822 130 83161	LED GREEN
4652	4822 117 10287	R05	6891	4822 130 83161	LED GREEN
4700	4822 117 10287	R05			
4860	4822 117 10287	R05			
			7050	4822 209 72247	TEA6200/V2
5050	4822 152 20677	10μH	7052	5322 130 60508	BC857B
5051	4822 152 20677	10μH	7150	4822 209 73507	TEA6100/N3
5052	4822 157 60122	4,7μH	7152	4822 130 60511	BC847B
5053	4822 152 20677	10μH	7180	4822 209 30858	TSA6057/C1
5054	4822 157 50975	1 mH	7200	4822 130 60511	BC847B
5055	4822 152 20682	Adj ind 6,15μH	7202	5322 130 60508	BC857B
5056	4822 152 20678	33μH	7210	4822 209 30859	TDA1591/V3
5057	4822 152 20683	Adj ind 28μH	7211	4822 130 63087	BF545 A
5058	4822 157 52983	22μH	7212	4822 130 60511	BC847B
5059	4822 157 52983	22μH	7213	4822 130 60511	BC847B
5070	4822 242 72076	10,7MHz	7214	4822 130 60511	BC847B
5071	4822 242 72076	10,7MHz	7250	4822 209 63939	TA7705F
5072	4822 242 71883	SFE10,7MS318-D	7275	4822 209 30856	HA12134F
5073	4822 242 71883	SFE10,7MS318-D	7370	4822 209 10263	HEF4052BP
5117	4822 242 80368	SFE10,7MS2W4-A	7520	4822 209 31979	TEA6330T/V1
5150	4822 156 11081	Adj ind 1,47μH	7550	4822 209 72894	TDA1516BQ/N2
5180	4822 157 50975	1 mH	7551	4822 209 72894	TDA1516BQ/N2
5190	4822 242 71874	4MHz	7552	5322 130 41982	BC848B
5200	4822 242 81117	CSB456F11	7600	4822 209 31978	TDA3602/N1
5570	4822 157 63285	Filter coil assy	7601	4822 130 62651	ON4414
5650	4822 242 81118	CSA11,5MTS1	7602	5322 130 60508	BC857B
5700	4822 242 80259	LN-G8-311(TPR11)	7603	4822 130 60511	BC847B
5762	4822 242 81118	CSA11,5MTS1	7610	4822 130 60511	BC847B
			7631	5322 130 60508	BC857B
			7640	4822 130 60511	BC847B
			7641	5322 130 60508	BC857B
			7650	4822 209 31983	83C528FFB/015
			7651	5322 209 11306	HEF4094BT
6002	4822 252 60125	DSP201	7652	5322 209 11306	HEF4094BT
6051	4822 130 82596	BB419	7702	4822 130 60511	BC847B
6100	4822 130 30621	1N4148	7703	5322 130 60508	BC857B
6150	5322 130 31928	BAS16	7720	4822 209 83159	LA2000
6201	5322 130 31928	BAS16	7750	4822 900 10393	EEPROM SEC CODE
6220	5322 130 31928	BAS16	7751	4822 209 31982	P83CE654FFB/501
6520	4822 130 30621	1N4148	7752	5322 209 60424	PC74HC573T
6570	5322 130 30684	1N4002	7753	4822 209 31163	FCF61C65LL-85T
6601	4822 130 30594	BAV10			
6602	5322 130 80214	BAS28			

 		
7754	4822 209 31981	SAA6579T
7830	4822 209 73423	TLC549IP
7831	5322 130 60508	BC857B
7850	5322 209 11129	PCF8576T
7870	5322 209 14476	HEF4011BT

Technician's remarks