Service
Service
Service

14PV110/01/07/58
14PV202/01/07/39
14PV220/01/07/58
14PV227/01/07/37
14PV350/01/07/39
14PV354/01/07/39
14PV358/01/07/39
20PV230/01/07
21PV340/01/39
21PV548/01/39/58
37TR210/39
37TR220/03
37TVB60/39
51TR300/03/39
51TVB70/39

AA

Service Manual

Contents

Survey of versions:

/01/03	PAL B/G (with VPS)
/07	PAL I (UHF & VHF)
/39	PAL/SECAM B/G, D/K, K1, I, L, L'
/58	PAL/SECAM B/G, D/K

Survey of remote controls:

14PV110, 14PV202, 14PV220, 14PV227, 14PV350, 14PV354, 14PV358, 20PV230, 21PV340, 21PV548	**RT712/201**	8622 667 12201
37TR210/39, 37TVB60/39, 37TR220/03, 51TR300/03, 51TVB70/39	**RT712/101**	8622 667 12101

Tapedeck:

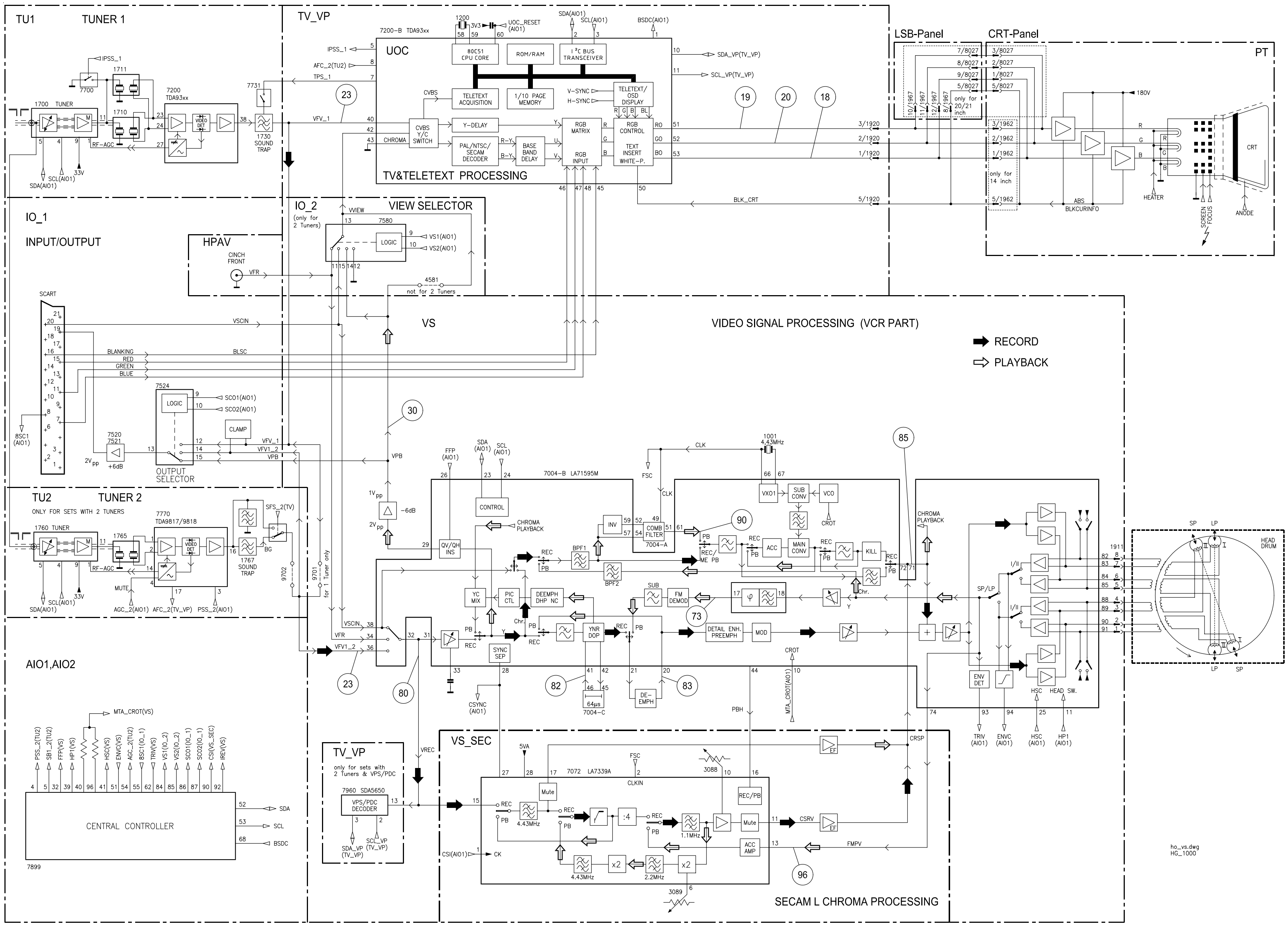
14PV110, 14PV202, 14PV220, 14PV227, 14PV350, 14PV354, 14PV358, 20PV230, 21PV340, 37TR210/39, 37TR220/03, 37TVB60/39, 51TR300, 51TVB70/39	**TAPE DECK WDAT-P2/0 LP**
21PV548	**TAPE DECK WDAT-P4/0 LP**

Published by GH/MS 0096, Videq Service DepartmentPrinted in Netherlands Subject to modification GB 3103 785 20470

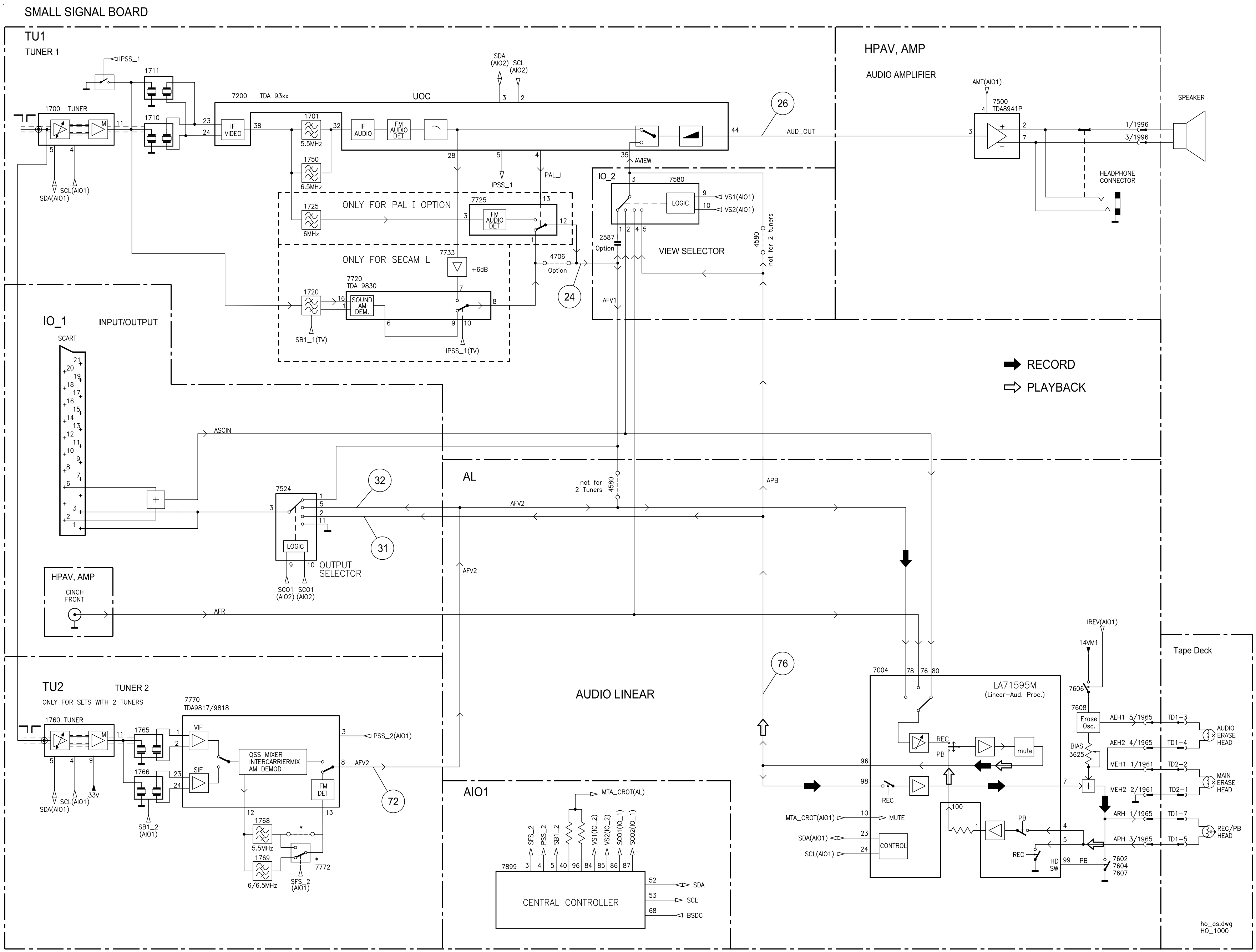
PHILIPS

6. Block Diagrams, Waveforms, Wiring Diagram

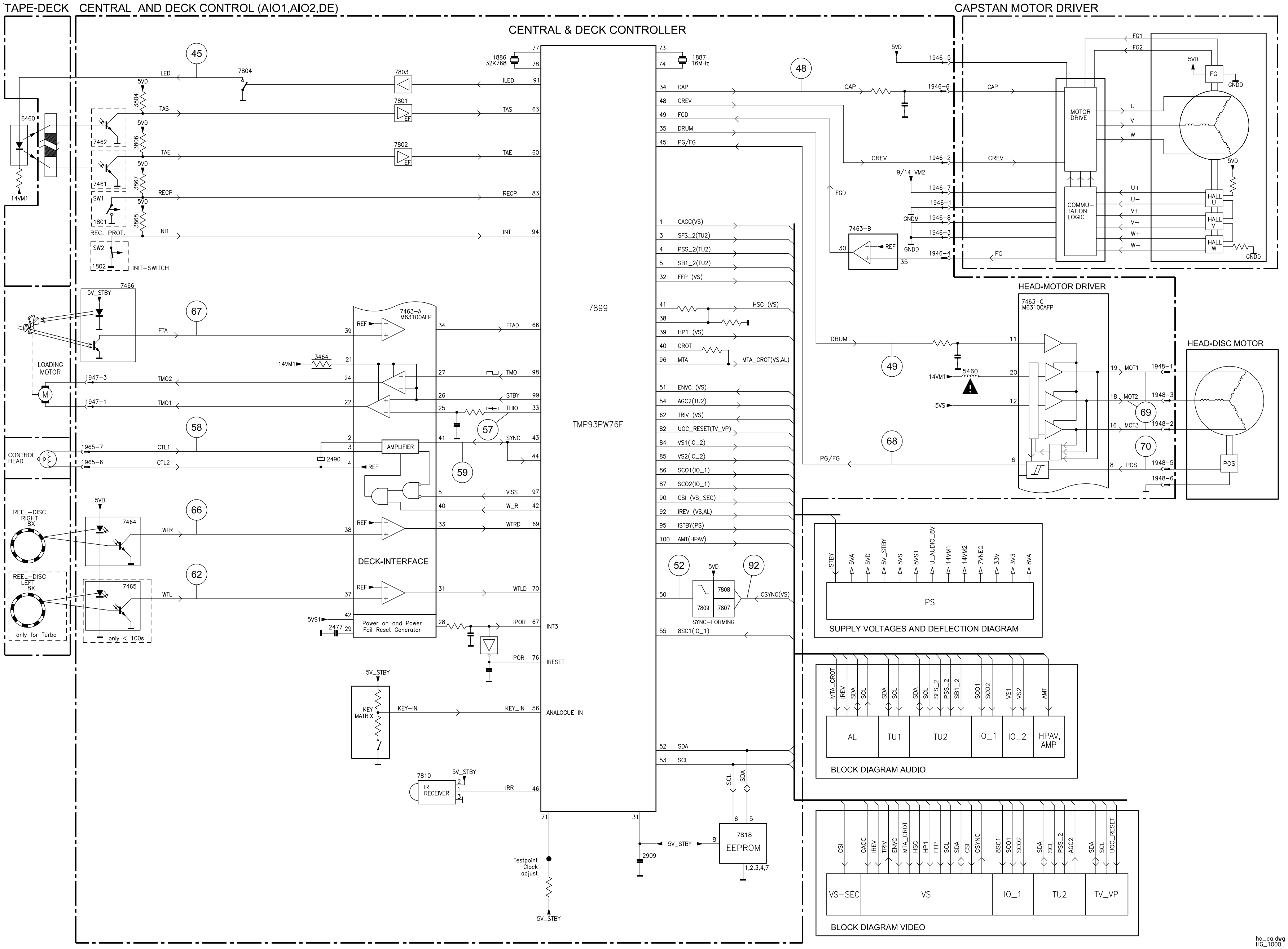
6.1 Block Diagram Video



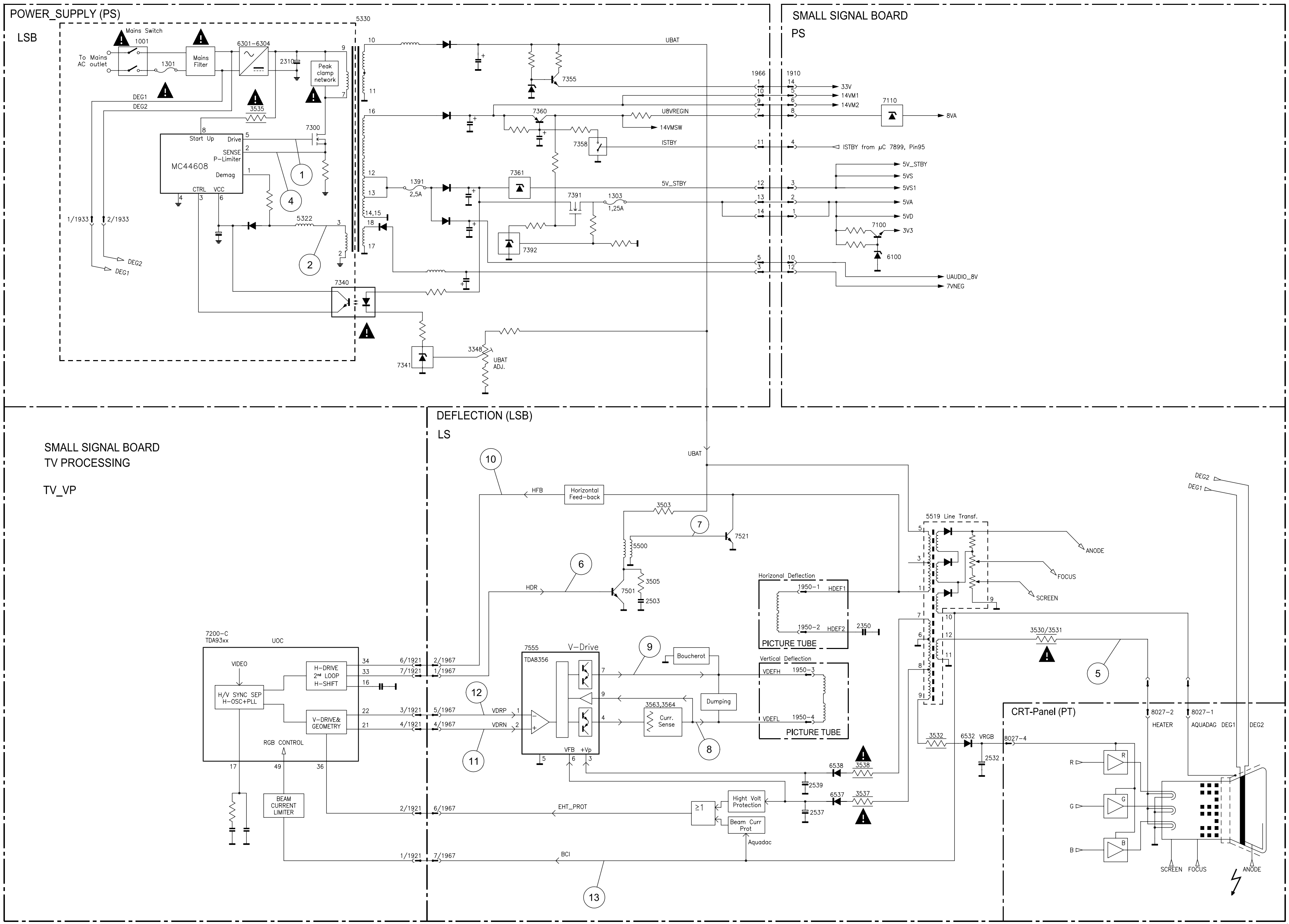
6.2 Block Diagram Audio



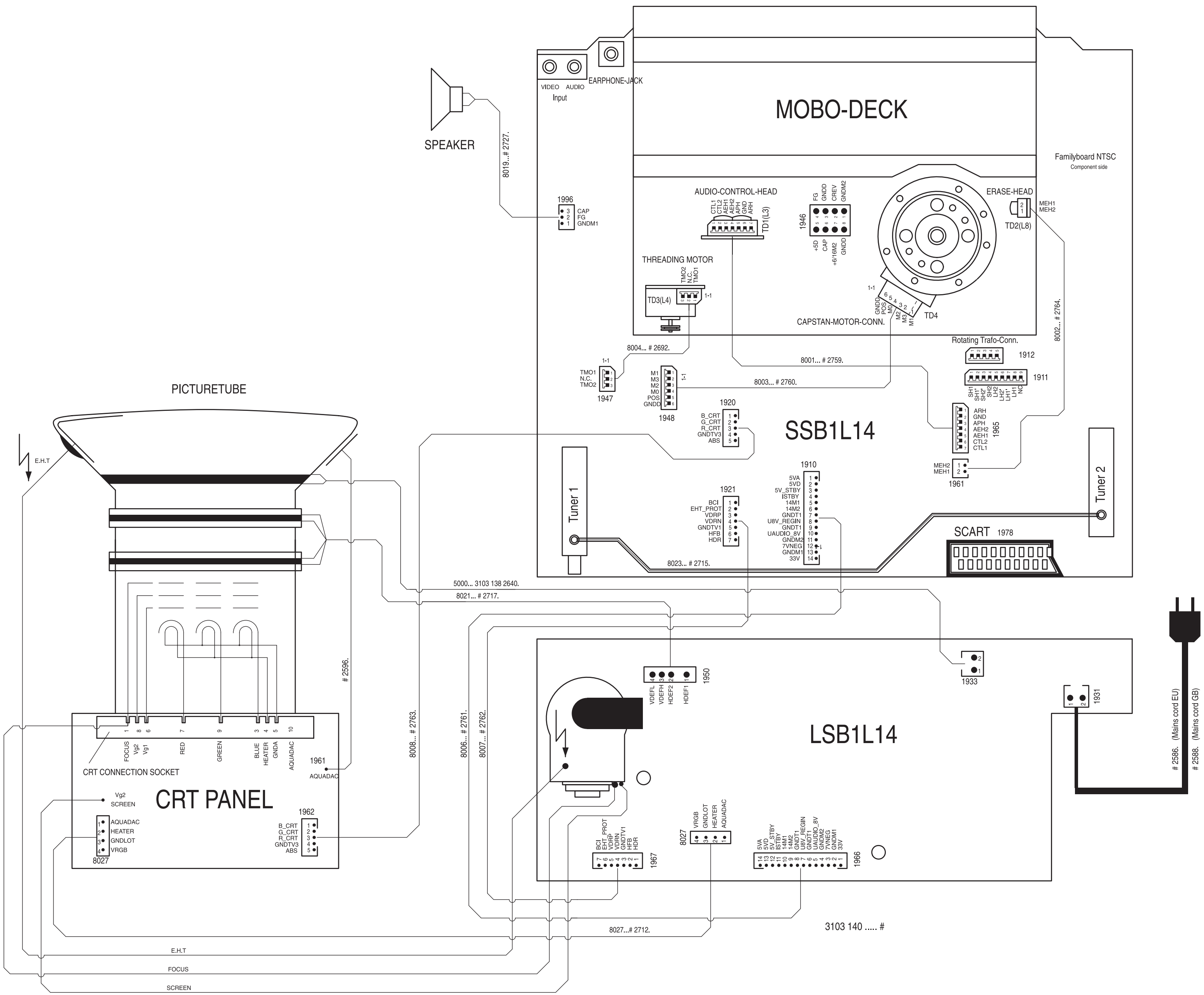
6.3 Block Diagram Deck & Control



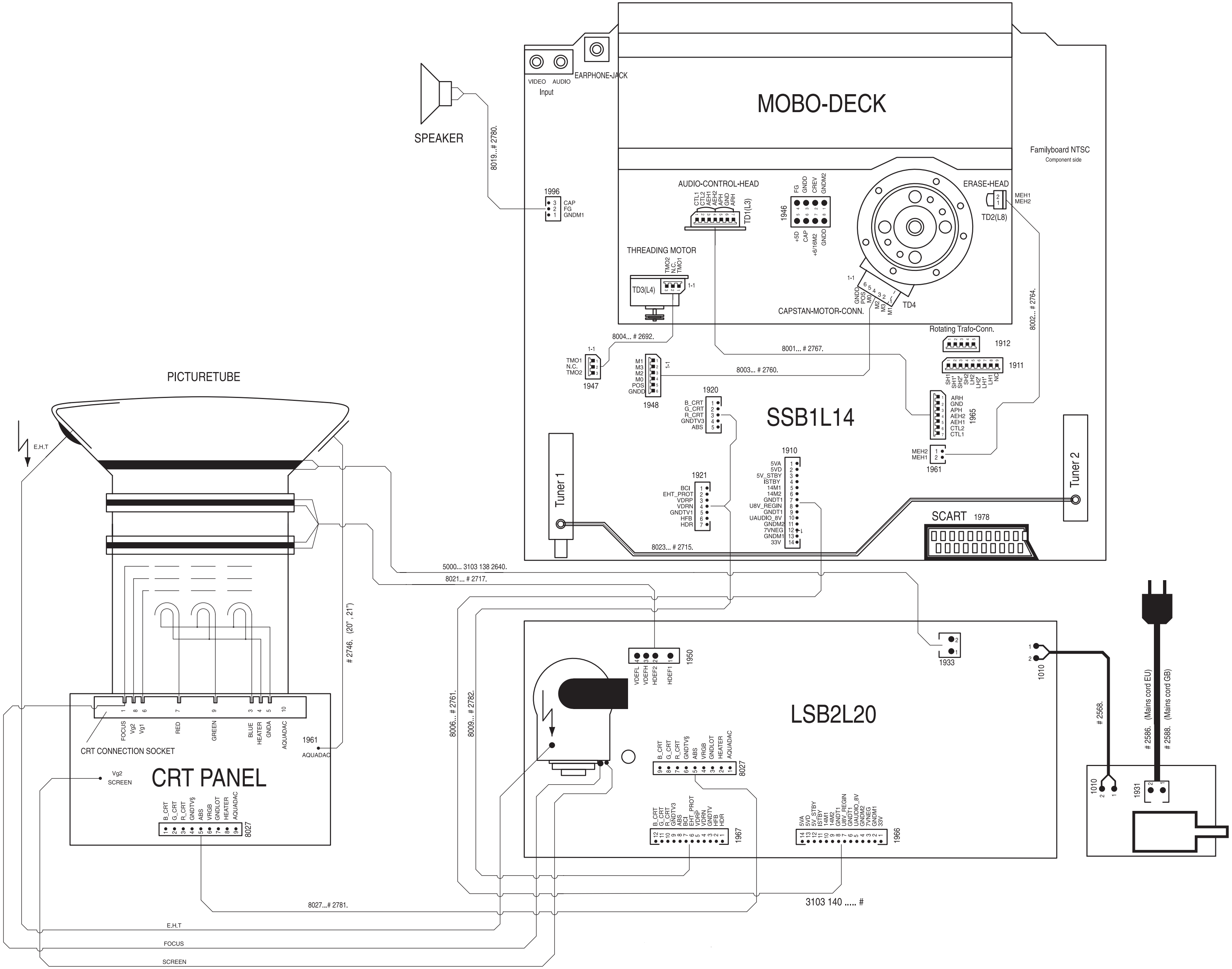
6.4 Block Diagram Supply & Deflection



6.7 Wiring Diagram 14”

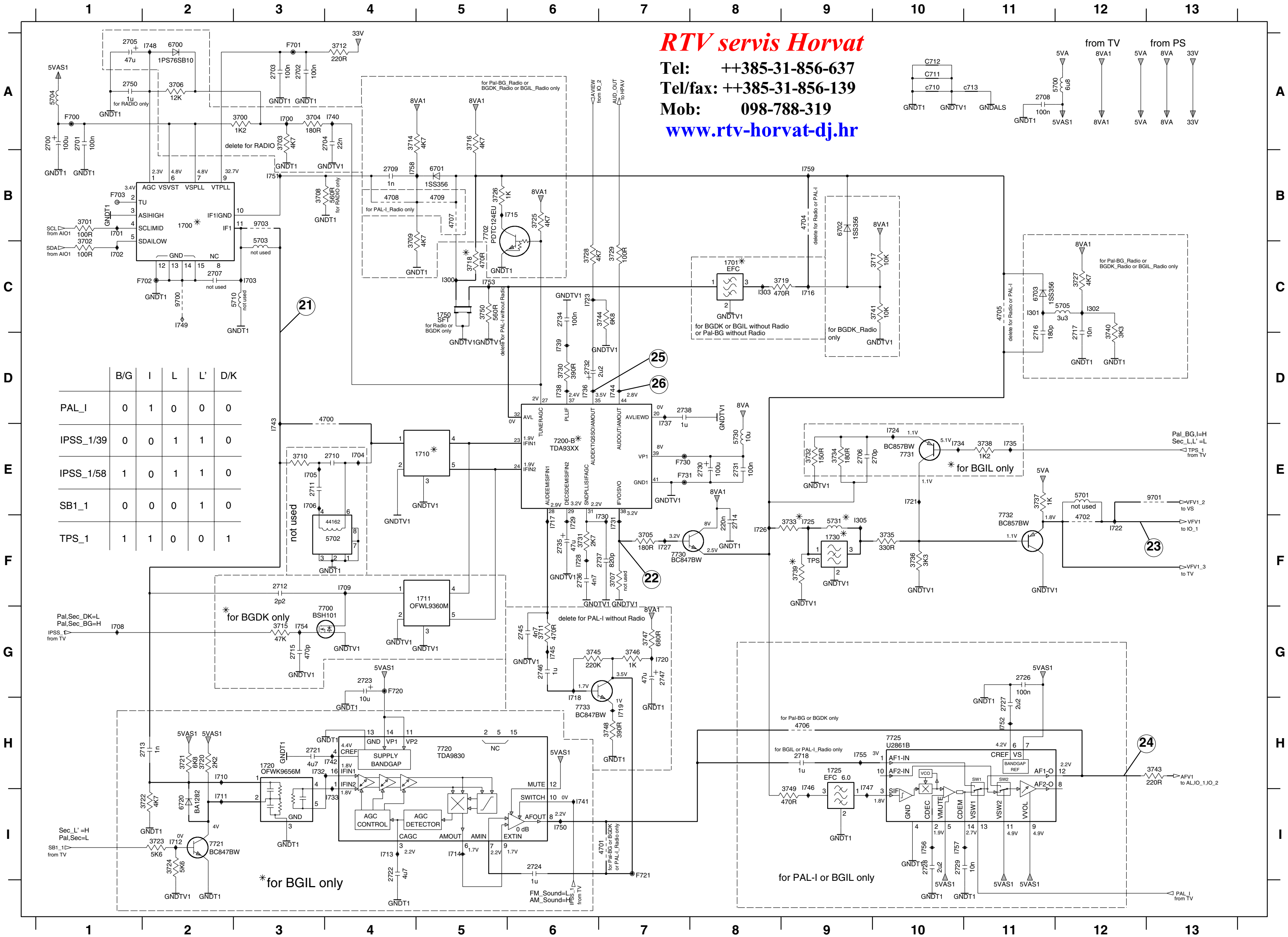


6.8 Wiring Diagram 20"/21"



7. Circuit Diagrams and PWB Layouts

7.1 Tuner 1 (TU1) - Small Signal Board SSB

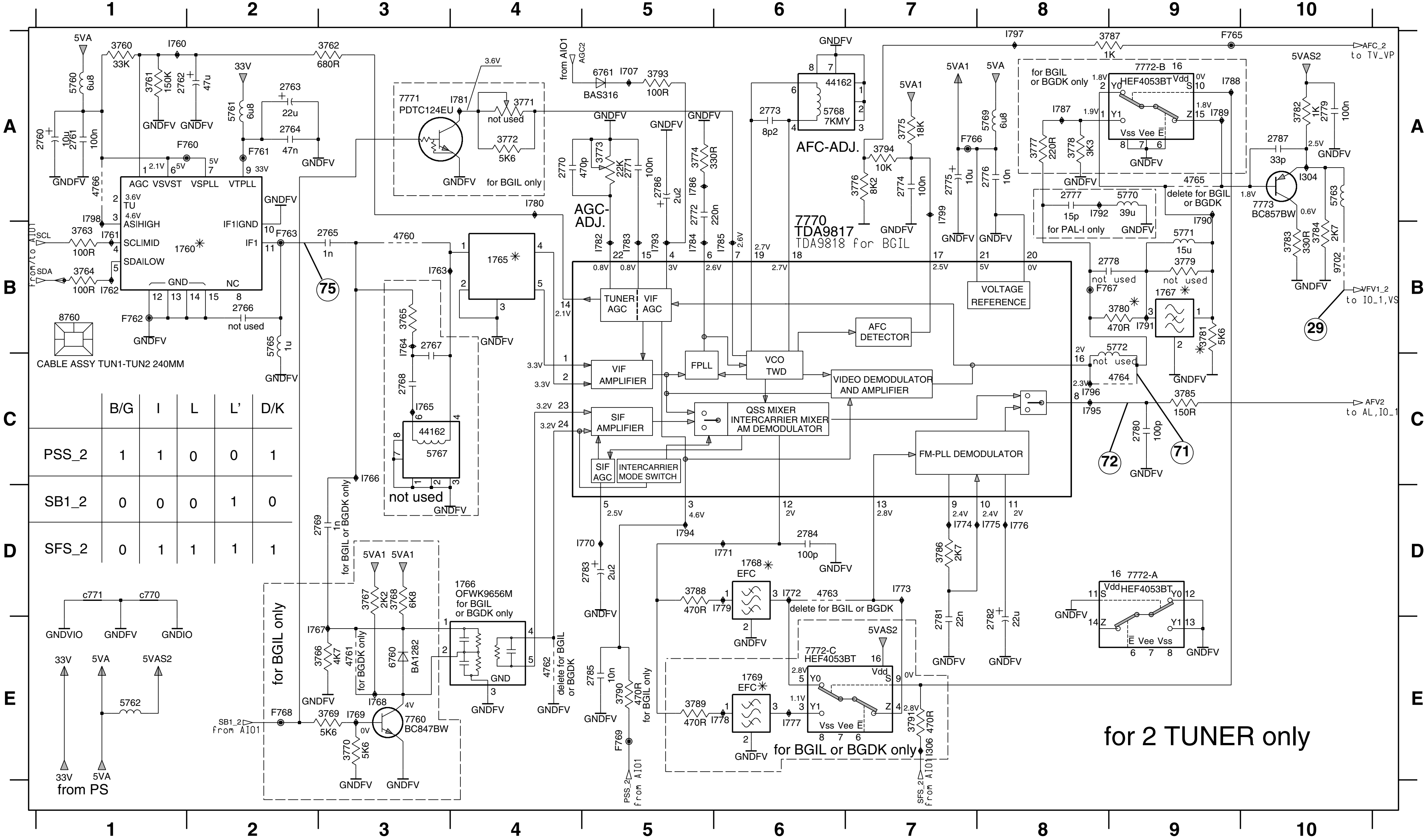


	B/G	I	L	L'	D/K
PAL_I	0	1	0	0	0
IPSS_1/39	0	0	1	1	0
IPSS_1/58	1	0	1	1	0
SB1_1	0	0	0	1	0
TPS_1	1	1	0	0	1

1700 B2
1701 C8
1710 E4
1711 F5
1720 H3
1725 H9
1730 F9
1750 C5
2700 A1
2701 A1
2702 A3
2703 A3
2704 A4
2705 A1
2706 E9
2707 C2
2708 A11
2709 B4
2710 E4
2711 E3
2712 F3
2713 H2
2714 F8
2715 G3
2716 D11
2717 D12
2718 H9
2721 H3
2722 I4
2723 G4
2724 I6
2726 G11
2727 H11
2728 I10
2729 I10
2730 E8
2731 E8
2732 D6
2734 C6
2735 F6
2736 F6
2737 F7
2738 D7
2745 G6
2746 G6
2747 G7
2750 A1
3700 A3
3701 B1
3702 C1
3703 A3
3704 A3
3705 F7
3706 A2
3707 F7
3708 B3
3709 B4
3710 E3
3711 G6
3712 A4
3714 A4
3715 G3
3716 A5
3717 C10
3718 C5
3719 C9
3720 H2
3721 H2
3722 I2
3723 I2
3724 I2
3725 B6
3726 B5
3727 C12
3728 C6
3729 C7
3730 D6
3731 F6
3732 E9
3733 F9
3734 E9
3735 F10
3736 F10
3737 E11
3738 E11
3739 F9
3740 C12
3741 C10
3743 H13
3744 C7
3745 G6
3746 G7
3747 G7
3748 H7
3749 I9
3750 C5
4700 D4
4701 I7
4702 F12
4704 B9
4705 C11
4706 H9
4707 B5
4708 B4
4709 B5
5700 A12
5701 E12
5702 F4
5703 C3
5704 A1
5705 C12
5710 C3
5730 E8
5731 F9
6700 A2
6701 B5
6702 B9
6703 C11
6720 I2
7200-B E6
7700 G4
7702 B5
7720 H5
7721 I2
7725 H10
7730 F7
7731 E10
7732 F11
7733 H6
9700 C2
9701 E13
9703 B3
C711 A10
C712 A10
F700 A1
F701 A3
F702 C2
F703 B1
F720 G4
F721 I7
F730 E7
F731 E7
I300 C5
I301 C11
I302 C12
I303 C8
I305 F9
I700 A3
I701 B1
I702 C1
I703 C3
I704 E4
I705 E3
I706 E3
I708 G1
I709 F4
I710 H2
I711 I2
I712 I2
I713 I4
I714 I5
I715 B6
I716 C9
I717 F6
I718 H6
I719 H7
I720 G7
I721 E10
I722 F12
I723 C6
I724 E10
I725 F9
I726 F8
I727 F7
I728 F6
I729 F6
I730 F7
I731 F7
I732 H3
I733 I4
I734 E10
I735 E11
I736 D6
I737 D7
I738 D6
I739 D6
I740 A4
I741 I6
I742 H4
I743 E3
I744 D7
I745 G6
I746 H9
I747 H9
I748 A2
I749 C2
I750 I6
I751 B3
I752 H11
I753 C5
I754 G3
I755 H9
I756 I10
I757 I10
I758 B4
I759 B9
c710 A10
c713 A11

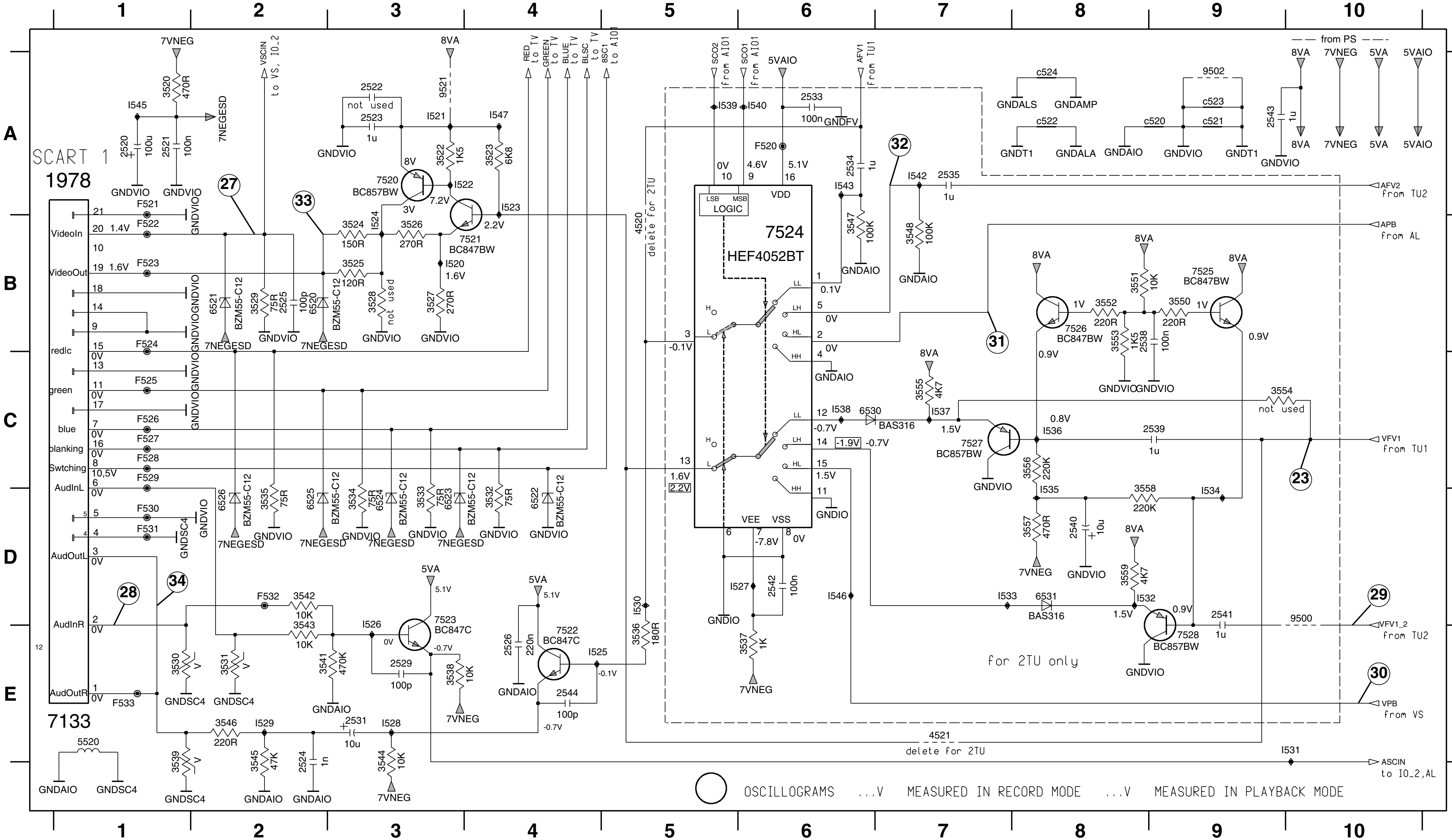
7.2 Tuner 2(TU2) - Small Signal Board SSB

1760 B1	2761 A1	2768 C3	2775 A7	2782 E8	3761 A1	3768 D3	3775 A7	3782 A10	3789 E5	4762 E4	5762 E1	5771 B9	7772-A D9	F761 A2	F769 E5	I763 B3	I770 D5	I777 E6	I784 B5	I791 B9	I798 A1
1765 B4	2762 A1	2769 D3	2776 A8	2783 D5	3762 A3	3769 E3	3776 A7	3783 B10	3790 E5	4763 D6	5763 A10	5772 B9	7772-B A9	F762 B1	I304 A10	I764 B3	I771 D6	I778 E6	I785 B6	I792 A8	I799 A7
1766 D4	2763 A2	2770 A4	2777 A8	2784 D6	3763 B1	3770 E3	3777 A8	3784 B10	3791 E7	4764 C9	5765 B2	6760 E3	7772-C E6	F763 B2	I306 E7	I765 C3	I772 D6	I779 D6	I786 A5	I793 B5	c770 D1
1767 B9	2764 A2	2771 A5	2778 B8	2785 E5	3764 B1	3771 A4	3778 A8	3785 C9	3793 A5	4765 A9	5767 C3	6761 A5	7773 A10	F765 A9	I707 A5	I766 C3	I773 D7	I780 A4	I787 A8	I794 D5	c771 D1
1768 D6	2765 B3	2772 A5	2779 A10	2786 A5	3765 B3	3772 A4	3779 B9	3786 D7	3794 A7	4766 A1	5768 A6	7760 E3	8760 B1	F766 A7	I760 A1	I767 E2	I774 D7	I781 A4	I788 A9	I795 C8	
1769 E6	2766 B2	2773 A6	2780 C9	2787 A10	3766 E3	3773 A5	3780 B9	3787 A9	4760 B3	5760 A1	5769 A8	7770 B6	9702 B10	F767 B8	I761 B1	I768 E3	I775 D8	I782 B5	I789 A9	I796 C8	
2760 A1	2767 B3	2774 A7	2781 E7	3760 A1	3767 D3	3774 A5	3781 B9	3788 D5	4761 E3	5761 A2	5770 A9	7771 A3	F760 A2	F768 E2	I762 B1	I769 E3	I776 D8	I783 B5	I790 A9	I797 A8	

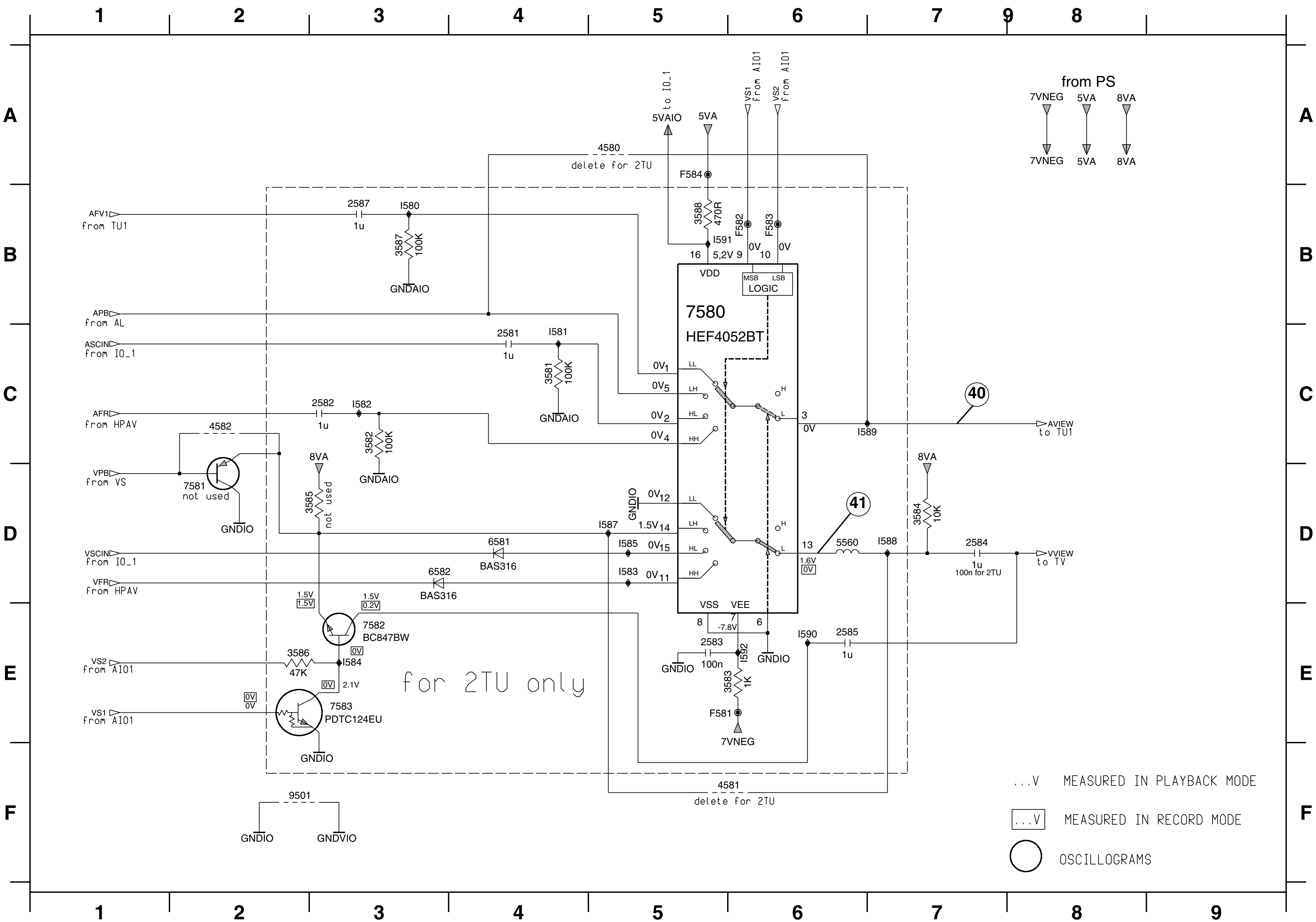


7.3 Input/Output 1 (IO_1) - Small Signal Board SSB

1978 A1	2525 B2	2535 A7	2543 A9	3525 B3	3531 E2	3537 E6	3544 E3	3551 B8	3557 D8	6520 B2	6526 D2	7523 E3	9500 D10	F523 B1	F529 C1	I521 A3	I527 D6	I533 D7	I539 A5	I547 A4
2520 A1	2526 E4	2538 B8	2544 E4	3526 B3	3532 D4	3538 E3	3545 E2	3552 B8	3558 D8	6521 B2	6530 C6	7524 B6	9502 A9	F524 B1	F530 D1	I522 A3	I528 E3	I534 D9	I540 A6	c520 A9
2521 A1	2529 E3	2539 C9	3520 A1	3527 B3	3533 D3	3539 E1	3546 E2	3553 B8	3559 D8	6522 D4	6531 D8	7525 B9	9521 A3	F525 C1	F531 D1	I523 A4	I529 E2	I535 D8	I542 A7	c521 A9
2522 A3	2531 E3	2540 D8	3522 A3	3528 B3	3534 D3	3541 E2	3547 B6	3554 C9	4520 B5	6523 D3	7520 A3	7526 B8	F520 A6	F526 C1	F532 D2	I524 B3	I530 D5	I536 C8	I543 A6	c522 A8
2523 A3	2533 A6	2541 D9	3523 A4	3529 B2	3535 D2	3542 D2	3548 B7	3555 C7	4521 E7	6524 D3	7521 B4	7527 C7	F521 A1	F527 C1	F533 E1	I525 E4	I531 E10	I537 C7	I545 A1	c523 A9
2524 E2	2534 A6	2542 D6	3524 B3	3530 E1	3536 E5	3543 E2	3550 B9	3556 C8	5520 E1	6525 D2	7522 E4	7528 E9	F522 B1	F528 C1	I520 B3	I526 D3	I532 D8	I538 C6	I546 D6	c524 A8

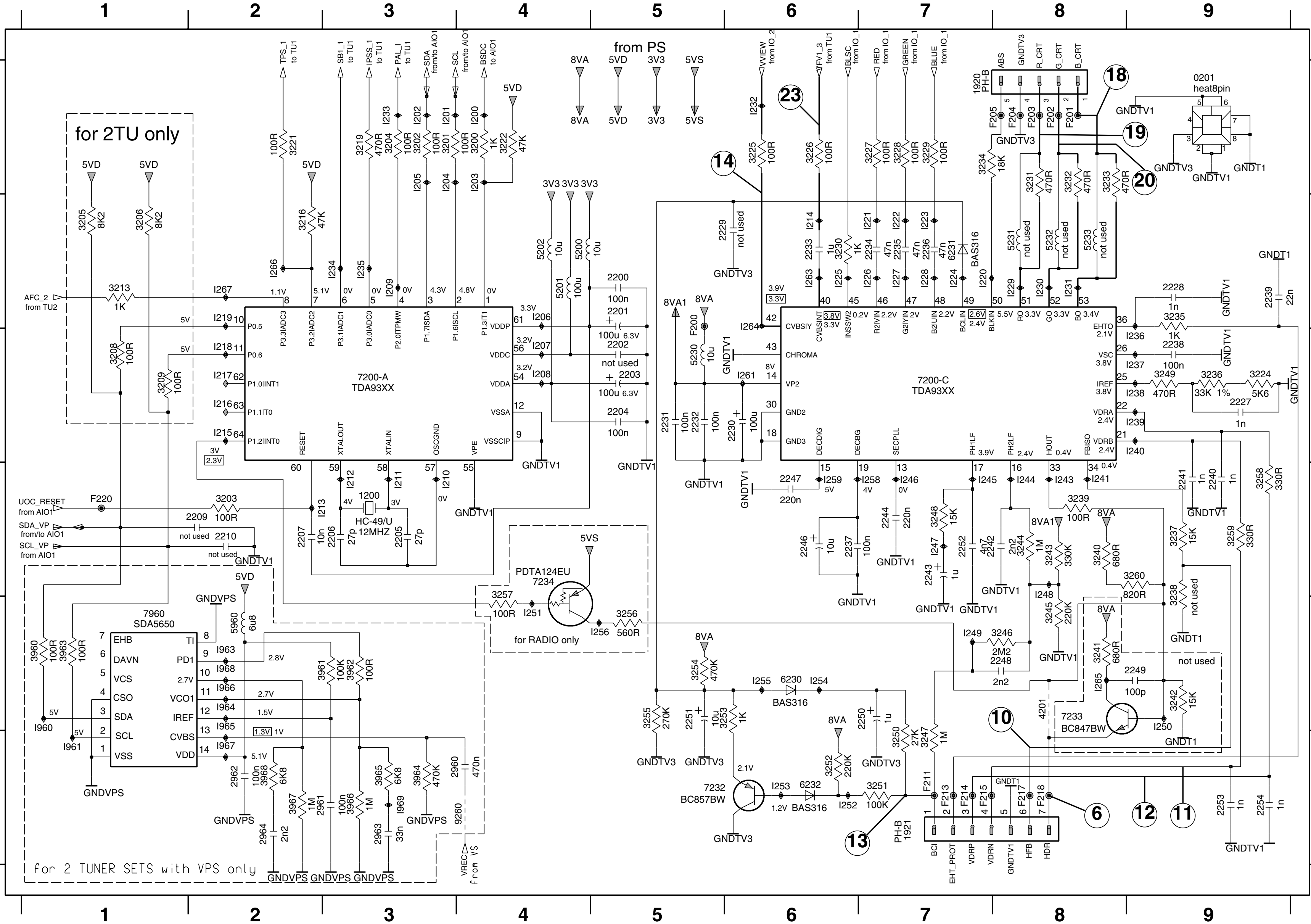


7.4 Input/Output 2 (IO_2) - Small Signal Board SSB



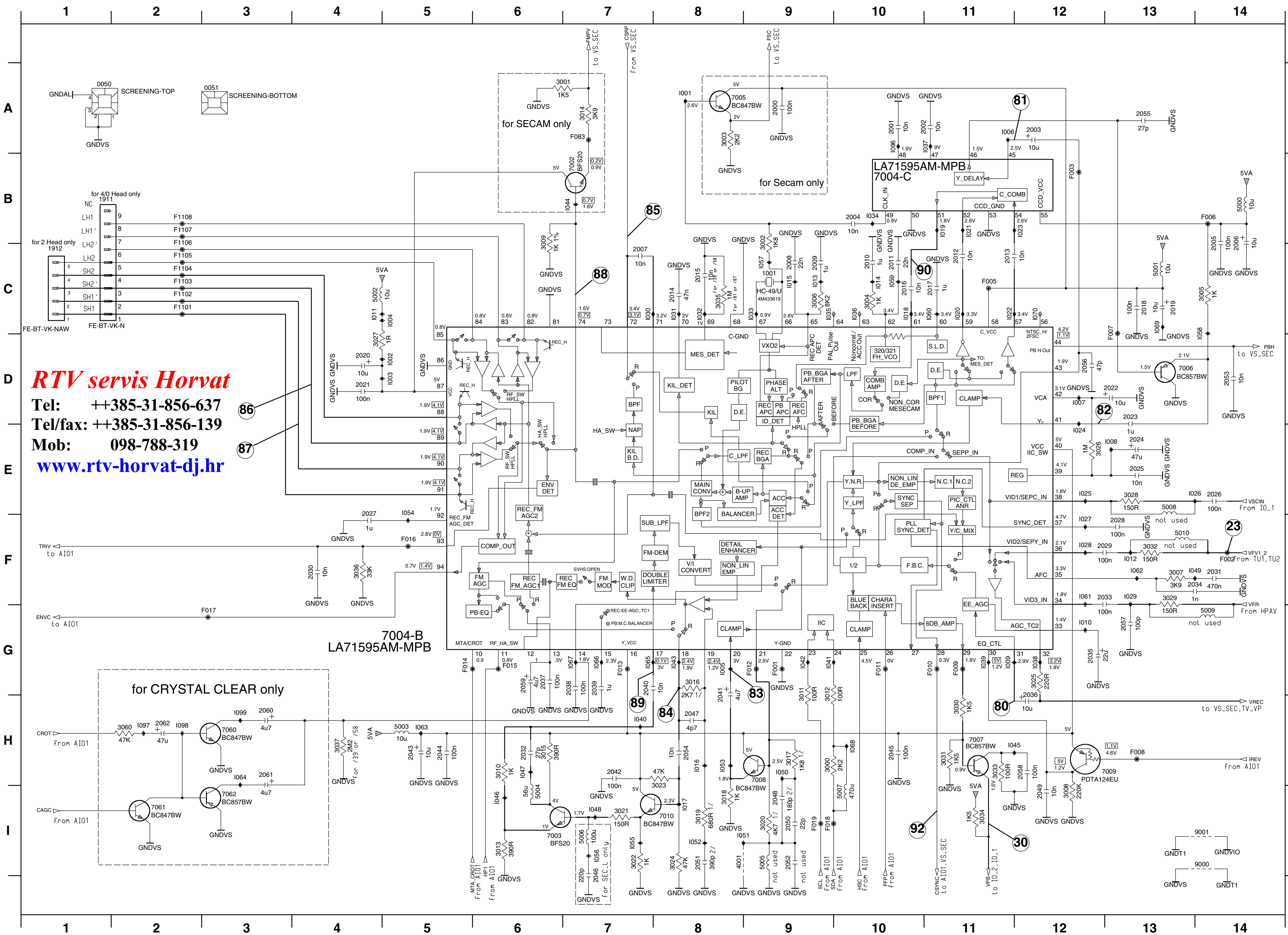
2581	C4
2582	C3
2583	E5
2584	D7
2585	E6
2587	B3
3581	C4
3582	C3
3583	E6
3584	D7
3585	D3
3586	E2
3587	B3
3588	B5
4580	A5
4581	F6
4582	C2
5560	D6
6581	D4
6582	D3
7580	B5
7581	D2
7582	E3
7583	E3
9501	F2
F581	E5
F582	B6
F583	B6
F584	A5
I580	B3
I581	C4
I582	C3
I583	D5
I584	E3
I585	D5
I587	D5
I588	D7
I589	C6
I590	E6
I591	B5
I592	E6

7.5 TV Processing, Teletext, VPS/PDC (TV_VP) - Small Signal Board SSB



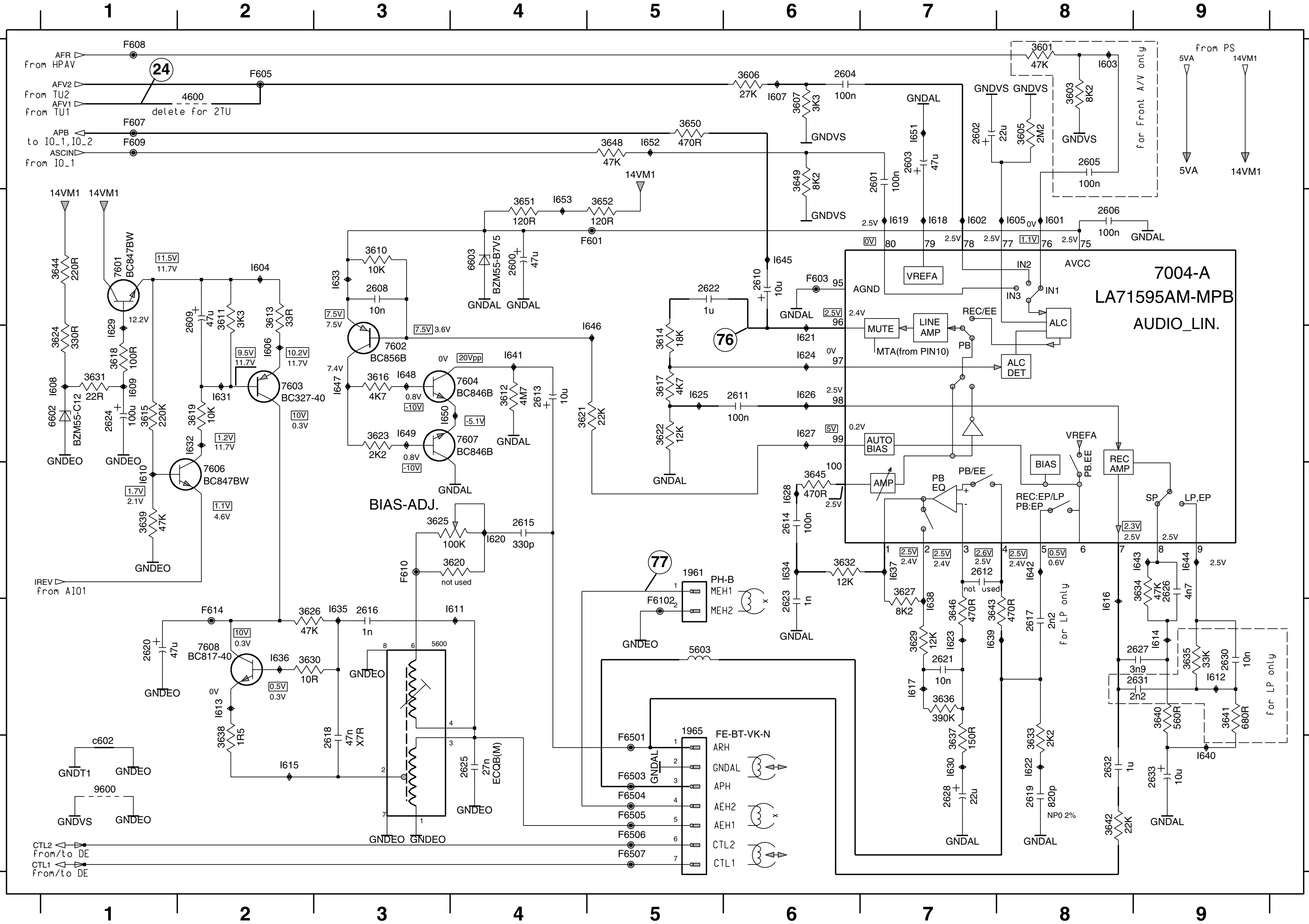
0201 A9	3964 F3	I960 E1
1200 D3	3965 F3	I961 F1
1920 A7	3966 F3	I963 E2
1921 F7	3967 F2	I964 E2
2200 B5	3968 F2	I965 E2
2201 B5	4201 E8	I966 E2
2202 C5	5200 B4	I967 F2
2203 C5	5201 B4	I968 E2
2204 C5	5202 B4	I969 F3
2205 D3	5230 C5	
2206 D3	5231 B8	
2207 D2	5232 B8	
2209 D2	5233 B8	
2210 D2	5960 E2	
2227 C9	6230 E6	
2228 B9	6231 B7	
2229 B6	6232 F6	
2230 C6	7200-A C3	
2231 C5	7200-C C7	
2232 C5	7232 F6	
2233 B6	7233 E8	
2234 B7	7234 D4	
2235 B7	7960 E1	
2236 B7	9260 F4	
2237 D6	F200 B5	
2238 C9	F201 A8	
2239 B9	F202 A8	
2240 D9	F203 A8	
2241 D9	F204 A8	
2242 D8	F205 A8	
2243 D7	F211 F7	
2244 D7	F213 F7	
2246 D6	F214 F7	
2247 D6	F215 F7	
2248 E8	F217 F8	
2249 E9	F218 F8	
2250 E7	F220 D1	
2251 E5	I200 A4	
2252 D7	I201 A3	
2253 F9	I202 A3	
2254 F9	I203 A4	
2960 F4	I204 A3	
2961 F3	I205 A3	
2962 F2	I206 B4	
2963 F3	I207 C4	
2964 F2	I208 C4	
3200 A4	I209 B3	
3201 A3	I210 D3	
3202 A3	I211 D3	
3203 D2	I212 D3	
3204 A3	I213 D2	
3205 B1	I214 B6	
3206 B1	I215 C2	
3208 C1	I216 C2	
3209 C1	I217 C2	
3213 B1	I218 C2	
3216 B2	I219 B2	
3219 A3	I220 B7	
3221 A2	I221 B7	
3222 A4	I222 B7	
3224 C9	I223 B7	
3225 A6	I224 B7	
3226 A6	I225 B6	
3227 A7	I226 B7	
3228 A7	I227 B7	
3229 A7	I228 B7	
3230 B6	I229 B8	
3231 A8	I230 B8	
3232 A8	I231 B8	
3233 A8	I232 A6	
3234 A7	I233 A3	
3235 B9	I234 B3	
3236 C9	I235 B3	
3237 D9	I236 C9	
3238 D9	I237 C9	
3239 D8	I238 C9	
3240 D8	I239 C9	
3241 E8	I240 C9	
3242 E9	I241 D8	
3243 D8	I243 D8	
3244 D8	I244 D8	
3245 E8	I245 D7	
3246 E8	I246 D7	
3247 F7	I247 D7	
3248 D7	I248 D8	
3249 C9	I249 E7	
3250 F7	I250 E9	
3251 F7	I251 E4	
3252 F6	I252 F6	
3253 E6	I253 F6	
3254 E5	I254 E6	
3255 E5	I255 E6	
3256 E5	I256 E5	
3257 E4	I258 D7	
3258 D9	I259 D6	
3259 D9	I261 C6	
3260 D9	I263 B6	
3960 E1	I264 B6	
3961 E3	I265 E8	
3962 E3	I266 B2	
3963 E1	I267 B2	

7.6 Video Signal Processing (VS) - Small Signal Board SSB



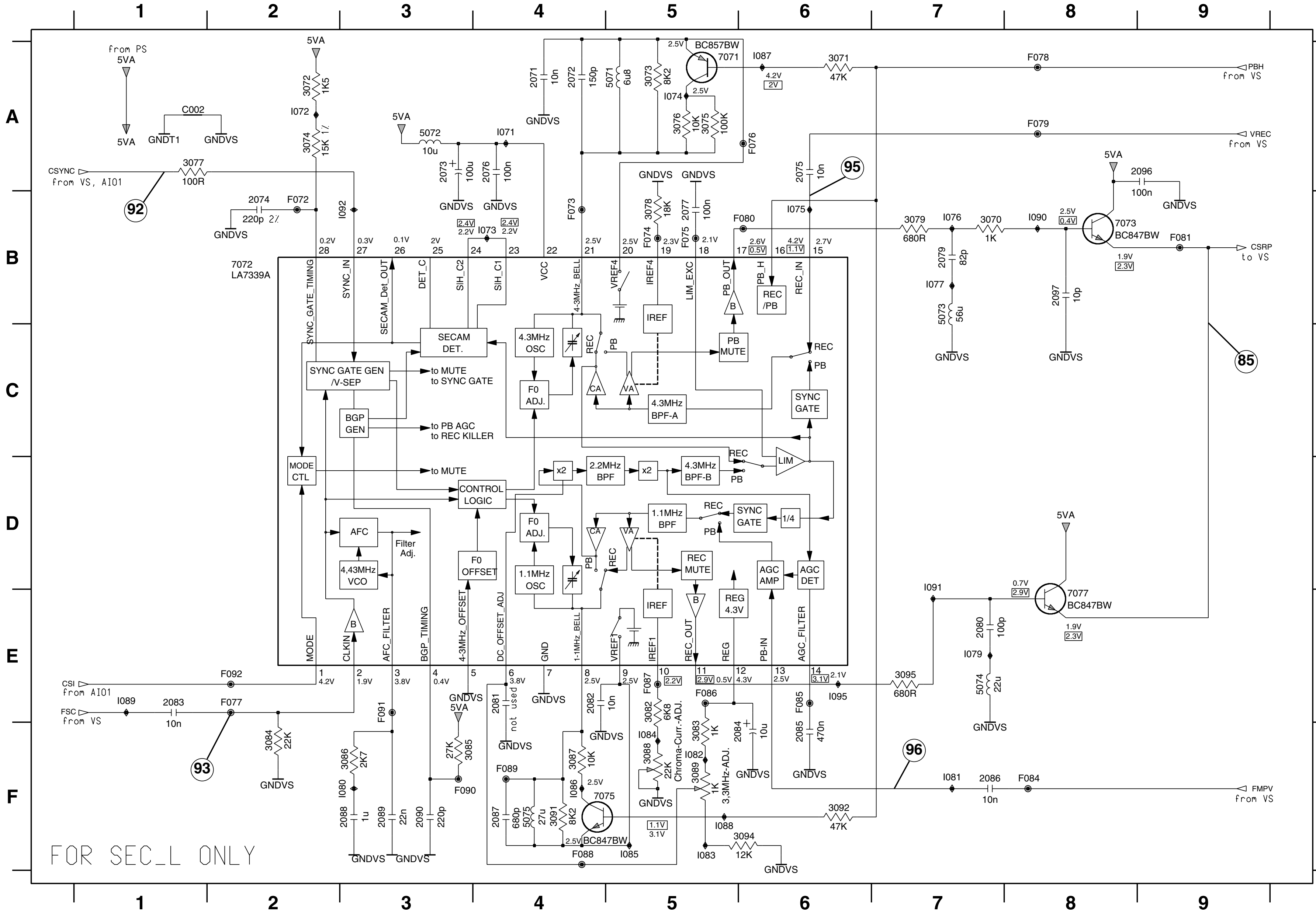
0050 A1	5009 G14	I099 H3
0051 A3	5010 F13	
1001 C9	7002 B7	
1911 B2	7003 I6	
1912 C1	7004-B G5	
2000 A9	7004-C B10	
2001 A10	7005 A8	
2002 A11	7006 D13	
2003 A12	7007 H11	
2004 B10	7008 H9	
2005 B14	7009 H13	
2006 B14	7010 I8	
2007 C7	7060 H3	
2008 C9	7061 I2	
2009 C9	7062 I3	
2010 C10	9000 I14	
2011 C10	9001 I14	
2012 C11	F001 G9	
2013 C11	F002 F14	
2014 C8	F003 B12	
2015 C8	F005 C11	
2016 C10	F006 B14	
2017 C11	F007 C13	
2018 C13	F008 H13	
2019 C13	F009 G11	
2020 D4	F010 G11	
2021 D4	F011 G10	
2022 D13	F012 G9	
2023 D13	F013 G7	
2024 E13	F014 G5	
2025 E13	F015 G6	
2026 E14	F016 F5	
2027 F4	F017 G3	
2028 F13	F018 I9	
2029 F12	F019 I9	
2030 F4	F083 A7	
2031 F14	F1101 C2	
2032 H6	F1102 C2	
2033 F12	F1103 C2	
2034 F13	F1104 C2	
2035 G12	F1105 C2	
2036 H12	F1106 C2	
2037 G6	F1107 B2	
2038 G7	F1108 B2	
2039 G7	I001 A8	
2040 G7	I002 D5	
2041 G8	I003 D5	
2042 H7	I004 C5	
2043 H5	I005 G8	
2044 H5	I006 A11	
2045 H10	I007 D12	
2046 I7	I008 E13	
2047 H8	I009 G11	
2048 I9	I010 G12	
2049 I12	I011 C4	
2050 I9	I012 F13	
2051 I8	I013 C9	
2052 I9	I014 C10	
2053 D14	I015 C9	
2054 H8	I016 H8	
2055 A13	I017 I8	
2056 D12	I018 C10	
2057 G13	I019 B11	
2058 H12	I020 C11	
2059 G6	I021 B11	
2060 H3	I022 C11	
2061 H3	I023 B12	
2062 H2	I024 E12	
3000 H9	I025 E12	
3001 A7	I026 E13	
3002 B9	I027 F12	
3003 A8	I028 F12	
3004 C10	I029 F13	
3005 C14	I030 C7	
3006 C9	I031 C8	
3007 F13	I032 C8	
3008 I12	I033 C9	
3009 B6	I034 B10	
3010 H6	I035 C9	
3011 G9	I036 C10	
3012 G9	I037 A11	
3013 I6	I038 G12	
3014 A7	I039 G11	
3015 H6	I040 H7	
3016 G8	I041 G9	
3017 H9	I042 G9	
3018 I8	I043 G8	
3019 I8	I044 B7	
3020 I9	I045 H11	
3021 I7	I046 I6	
3022 I7	I047 H6	
3023 H8	I048 I7	
3024 I8	I049 F13	
3025 G12	I050 H9	
3026 E12	I051 I8	
3027 D4	I052 I8	
3028 E13	I053 H8	
3029 F13	I054 E5	
3030 H11	I055 I7	
3031 H11	I056 I7	
3032 F13	I057 C9	
3033 H11	I058 C14	
3034 I11	I059 C10	
3035 C8	I060 C11	
3036 F4	I061 F12	
3037 H4	I062 F13	
3060 H2	I063 H5	
4001 I8	I064 H3	
5000 B14	I065 G7	
5001 C13	I066 G7	
5002 C4	I067 G7	
5003 H5	I068 H10	
5004 I6	I069 C13	
5005 I9	I070 C12	
5006 I7	I096 A10	
5007 I10	I097 H2	
5008 E13	I098 H2	

7.7 Audio Linear (AL) - Small Signal Board SSB



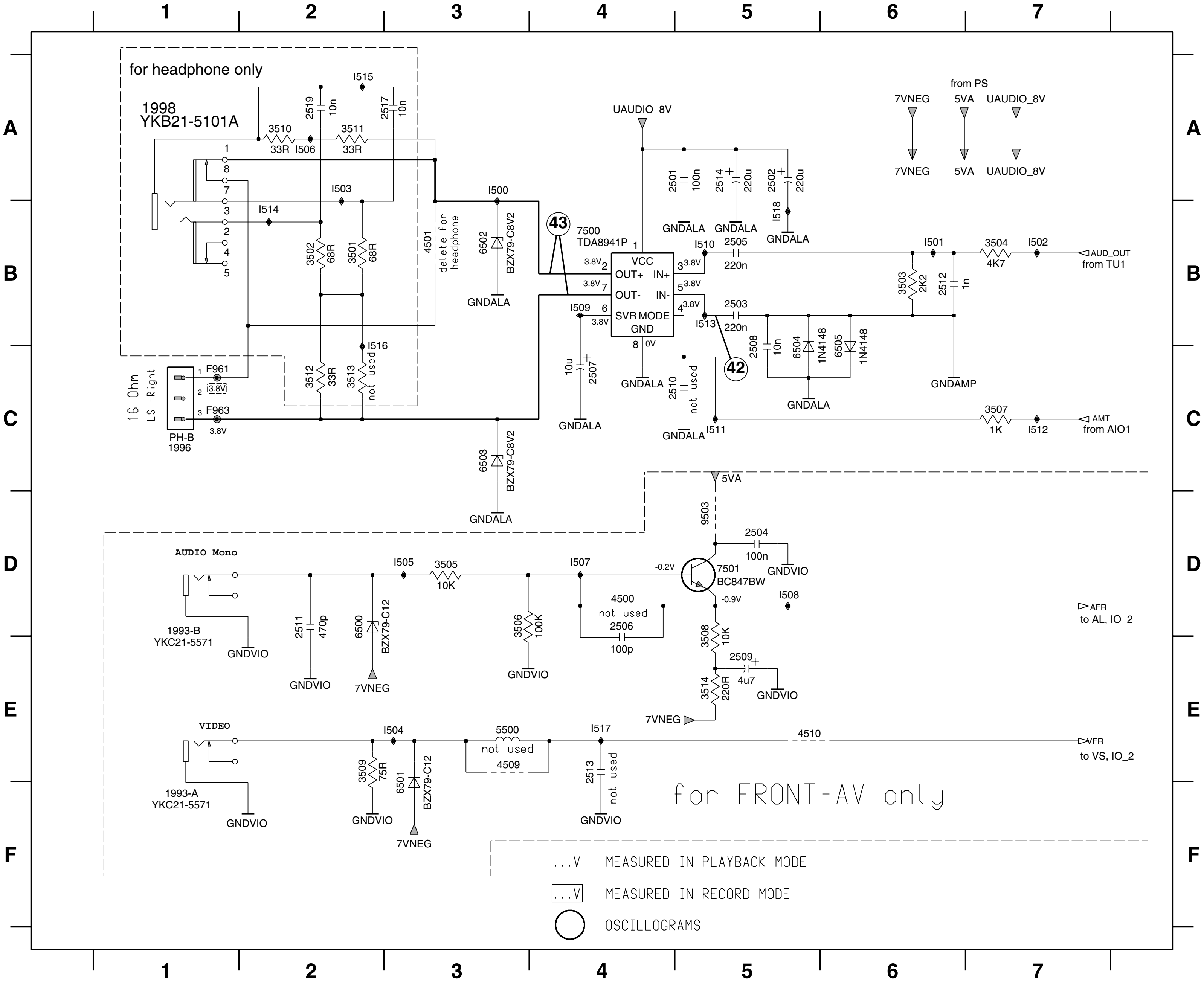
1961 D5	6602 C1
1965 E5	6603 B4
2600 B4	7004-A B9
2601 A7	7601 B1
2602 A7	7602 C3
2603 A7	7603 C2
2604 A6	7604 C4
2605 A8	7606 D2
2606 B8	7607 C4
2608 B3	7608 E2
2609 B2	9600 F1
2610 B6	F601 B5
2611 C6	F603 B6
2612 D7	F605 A2
2613 C4	F607 A1
2614 D6	F608 A1
2615 D4	F609 A1
2616 E3	F610 D3
2617 E8	F6102 E5
2618 F3	F614 E2
2619 F8	F6501 F5
2620 E1	F6503 F5
2621 E7	F6504 F5
2622 B5	F6505 F5
2623 E6	F6506 F5
2624 C1	F6507 F5
2625 F4	I601 B8
2626 D9	I602 B7
2627 E9	I603 A8
2628 F7	I604 B2
2630 E9	I605 B8
2631 E9	I606 C2
2632 F8	I607 A6
2633 F9	I608 C1
3601 A8	I609 C1
3603 A8	I610 D1
3605 A8	I611 E4
3606 A6	I612 E9
3607 A6	I613 E2
3610 B3	I614 E9
3611 B2	I615 F2
3612 C4	I616 E8
3613 B2	I617 E7
3614 C5	I618 B7
3615 C1	I619 B7
3616 C3	I620 D4
3617 C5	I621 C6
3618 C1	I622 F8
3619 C2	I623 E7
3620 D4	I624 C6
3621 C4	I625 C5
3622 C5	I626 C6
3623 C3	I627 C6
3624 C1	I628 D6
3625 D3	I629 C1
3626 E2	I630 F7
3627 D7	I631 C2
3629 E7	I632 C2
3630 E2	I633 B3
3631 C1	I634 D6
3632 D6	I635 E3
3633 F8	I636 E2
3634 D9	I637 D7
3635 E9	I638 E7
3636 E7	I639 E7
3637 F7	I640 F9
3638 F2	I641 C4
3639 D1	I642 D8
3640 E9	I643 D9
3641 E9	I644 D9
3642 F8	I645 B6
3643 E7	I646 C5
3644 B1	I647 C3
3645 D6	I648 C3
3646 E7	I649 C3
3648 A5	I650 C3
3649 A6	I651 A7
3650 A5	I652 A5
3651 B4	I653 B4
3652 B5	c602 F1
4600 A2	
5600 E3	
5603 E5	

7.8 Chroma Processing SECAM L (VS_SEC) - Small Signal Board SSB



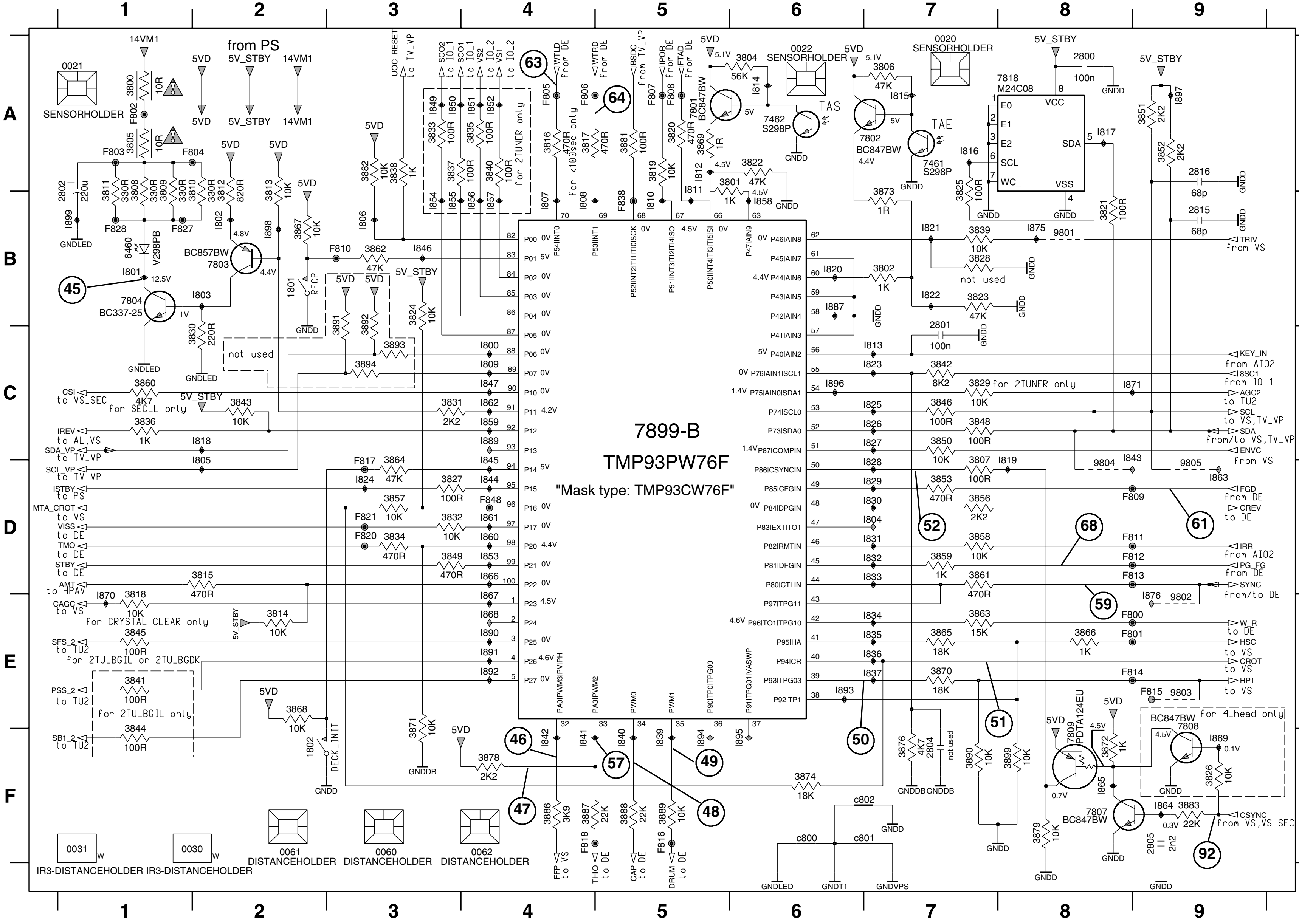
2071	A4	I076	B7
2072	A4	I077	B7
2073	A3	I079	E7
2074	B2	I080	F3
2075	A6	I081	F7
2076	A4	I082	F5
2077	B5	I083	F5
2079	B7	I084	F5
2080	E7	I085	F5
2081	E4	I086	F4
2082	E4	I087	A6
2083	E1	I088	F5
2084	F5	I089	E1
2085	F6	I090	B8
2086	F7	I091	D7
2087	F4	I092	B3
2088	F3	I095	E6
2089	F3	c002	A1
2090	F3		
2096	A9		
2097	B8		
3070	B7		
3071	A6		
3072	A2		
3073	A5		
3074	A2		
3075	A5		
3076	A5		
3077	A1		
3078	B5		
3079	B7		
3082	E5		
3083	F5		
3084	F2		
3085	F3		
3086	F3		
3087	F4		
3088	F5		
3089	F5		
3091	F4		
3092	F6		
3094	F6		
3095	E7		
5071	A5		
5072	A3		
5073	B7		
5074	E7		
5075	F4		
7071	A6		
7072	B2		
7073	B8		
7075	F5		
7077	E8		
F072	B2		
F073	B4		
F074	B5		
F075	B5		
F076	A6		
F077	E2		
F078	A8		
F079	A8		
F080	B6		
F081	B9		
F084	F8		
F085	E6		
F086	E5		
F087	E5		
F088	F4		
F089	F4		
F090	F3		
F091	E3		
F092	E2		
I071	A4		
I072	A2		
I073	B4		
I074	A5		
I075	B6		

7.9 Audio Amplifier, Headphones, AV Inputs (HPAV,AMP) - Small Signal Board SSB



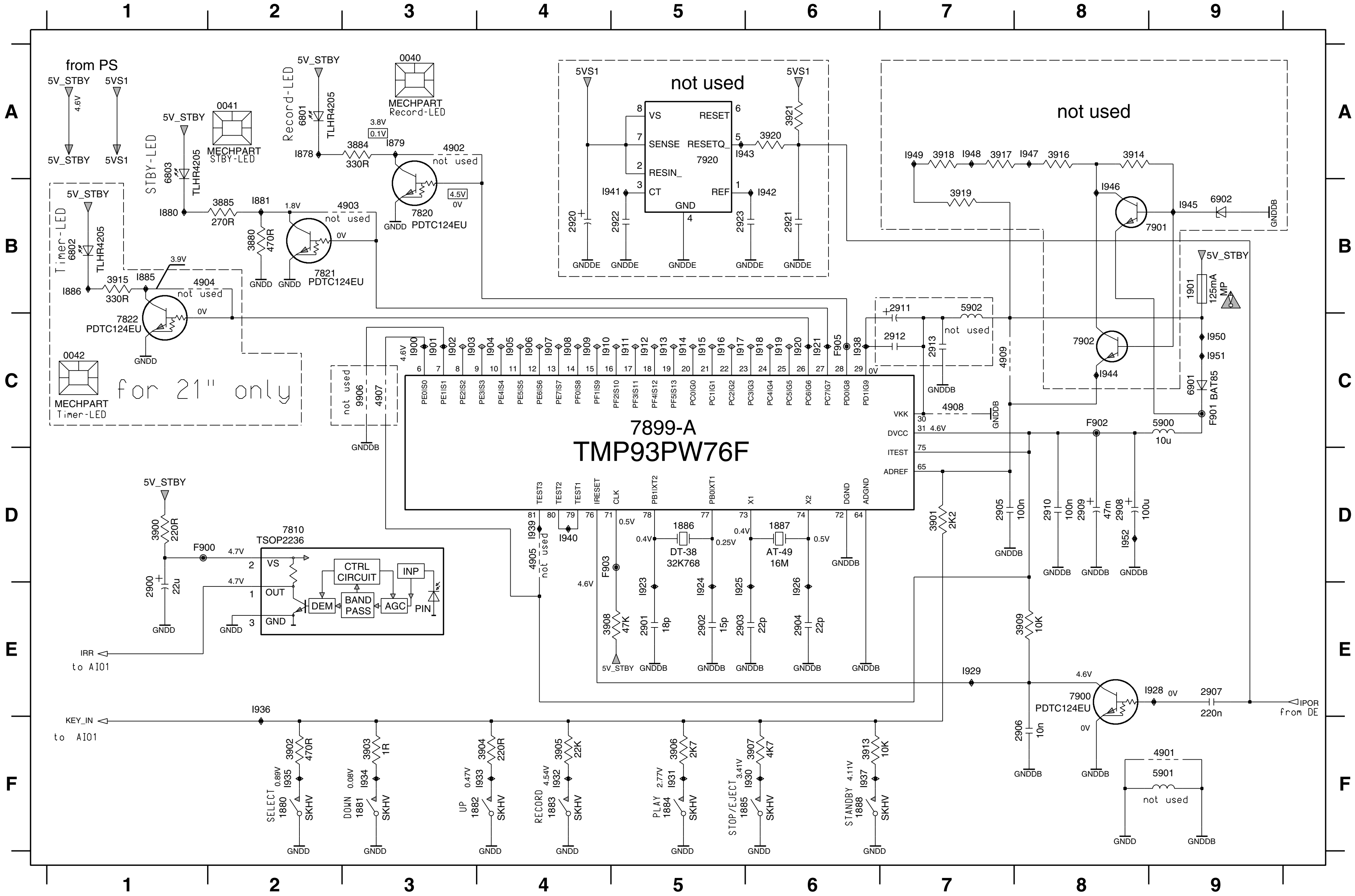
1993-A	F1
1993-B	D1
1996	C1
1998	A1
2501	A5
2502	A5
2503	B5
2504	D5
2505	B5
2506	D4
2507	C4
2508	C5
2509	E5
2510	C5
2511	D2
2512	B6
2513	E4
2514	A5
2517	A3
2519	A2
3501	B2
3502	B2
3503	B6
3504	B7
3505	D3
3506	D3
3507	C7
3508	E5
3509	E2
3510	A2
3511	A2
3512	C2
3513	C2
3514	E5
4500	D4
4501	B3
4509	E3
4510	E5
5500	E3
6500	D2
6501	F3
6502	B3
6503	C3
6504	C5
6505	C6
7500	B4
7501	D5
9503	D5
F961	C1
F963	C1
I500	A3
I501	B6
I502	B7
I503	A2
I504	E3
I505	D3
I506	A2
I507	D4
I508	D5
I509	B4
I510	B5
I511	C5
I512	C7
I513	B5
I514	B2
I515	A2
I516	B2
I517	E4
I518	B5

7.10 Control 1, Central & Deck Control (AIO1) - Small Signal Board SSB



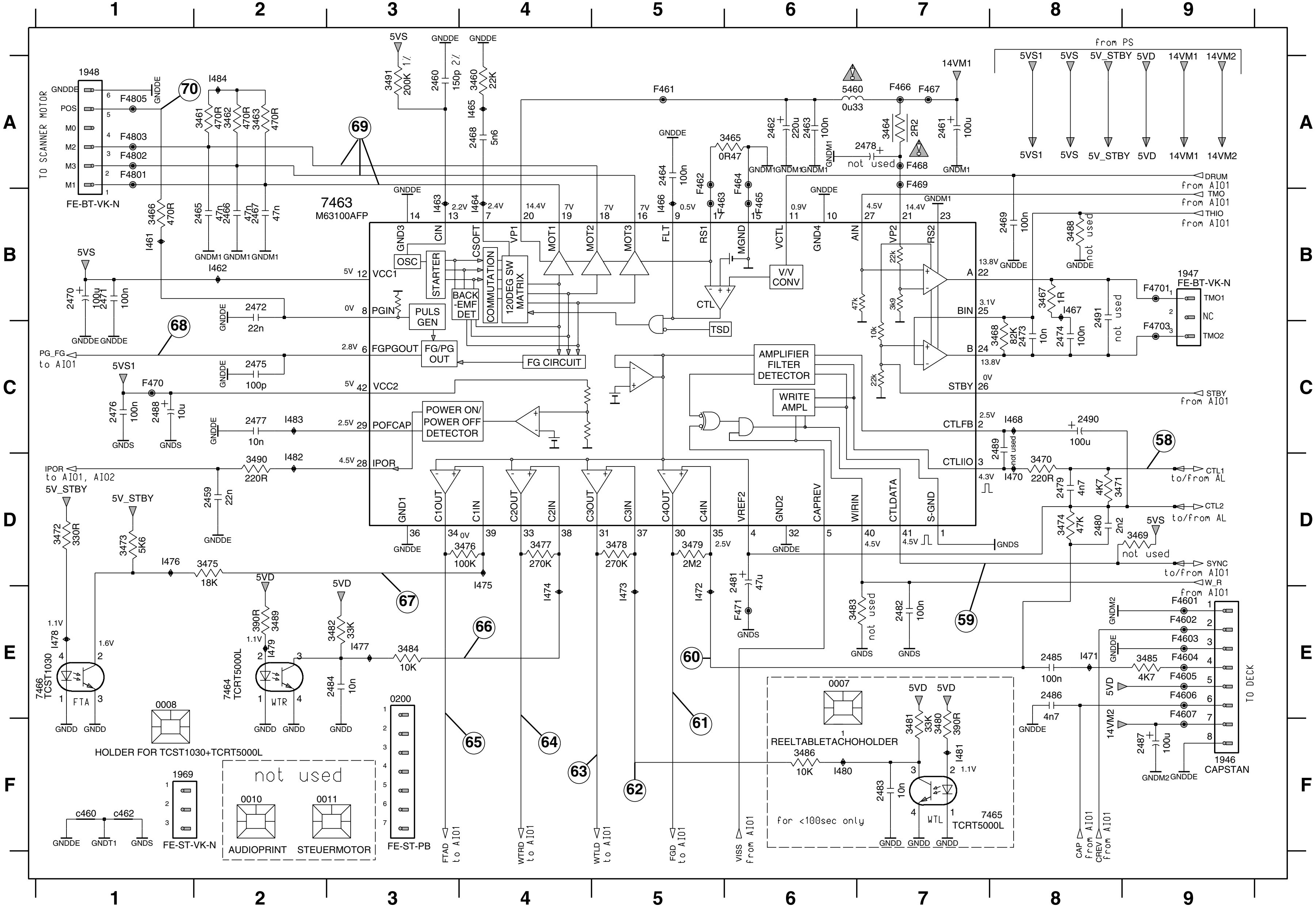
0020 A7	7461 A7	I866 D4
0021 A1	7462 A6	I867 E4
0022 A6	7801 A5	I868 E4
0030 F1	7802 A7	I869 F9
0031 F1	7803 B2	I870 E1
0060 F3	7804 B1	I871 C8
0061 F2	7807 F8	I875 B8
0062 F4	7808 F9	I876 E9
1801 B2	7809 E8	I887 B6
1802 F2	7818 A7	I889 C4
2800 A8	7899-B C5	I890 E4
2801 C7	9801 B8	I891 E4
2802 A1	9802 E9	I892 E4
2804 F7	9803 E9	I893 E6
2805 F9	9804 D8	I894 F5
2815 B9	9805 D9	I895 F6
2816 A9	F800 E8	I896 C6
3800 A1	F801 E8	I897 A9
3801 A6	F802 A1	I898 B2
3802 B7	F803 A1	I899 B1
3804 A6	F804 A2	c800 F6
3805 A1	F805 A4	c801 F7
3806 A7	F806 A4	c802 F7
3807 D7	F807 A5	
3808 A1	F808 A5	
3809 A1	F809 D9	
3810 A2	F810 B3	
3811 A1	F811 D9	
3812 A2	F812 D9	
3813 A2	F813 D9	
3814 E2	F814 E8	
3815 D2	F815 E9	
3816 A4	F816 F5	
3817 A4	F817 C3	
3818 E1	F818 F4	
3819 A5	F820 D3	
3820 A5	F821 D3	
3821 B8	F827 B1	
3822 A6	F828 B1	
3823 B7	F838 B5	
3824 B3	F848 D4	
3825 A7	I800 C4	
3826 F9	I801 B1	
3827 D3	I802 B2	
3828 B7	I803 B2	
3829 C7	I804 D7	
3830 C2	I805 C2	
3831 C3	I806 B3	
3832 D3	I807 B4	
3833 A3	I808 B4	
3834 D3	I809 C4	
3835 A4	I810 B5	
3836 C1	I811 A5	
3837 A3	I812 A5	
3838 A3	I813 C7	
3839 B7	I814 A6	
3840 A4	I815 A7	
3841 E1	I816 A7	
3842 C7	I817 A8	
3843 C2	I818 C2	
3844 F1	I819 C8	
3845 E1	I820 B6	
3846 C7	I821 B7	
3848 C7	I822 B7	
3849 D3	I823 C7	
3850 C7	I824 D3	
3851 A9	I825 C7	
3852 A9	I826 C7	
3853 D7	I827 C7	
3856 D7	I828 D7	
3857 D3	I829 D7	
3858 D7	I830 D7	
3859 D7	I831 D7	
3860 C1	I832 D7	
3861 D7	I833 D7	
3862 B3	I834 E7	
3863 E7	I835 E7	
3864 D3	I836 E7	
3865 E7	I837 E7	
3866 E8	I839 F5	
3867 B2	I840 F5	
3868 E2	I841 F4	
3869 A5	I842 F4	
3870 E7	I843 C9	
3871 E3	I844 D4	
3872 F8	I845 C4	
3873 B7	I846 B3	
3874 F6	I847 C4	
3876 F7	I849 A3	
3878 F4	I850 A3	
3879 F8	I851 A4	
3881 A5	I852 A4	
3882 A3	I853 D4	
3883 F9	I854 B3	
3886 F4	I855 B3	
3887 F4	I856 B4	
3888 F5	I857 B4	
3889 F5	I858 B6	
3890 F7	I859 C4	
3891 B3	I860 D4	
3892 B3	I861 D4	
3893 C3	I862 C4	
3894 C3	I863 D9	
3899 F8	I864 F9	
6460 B1	I865 F8	

7.11 Control 2, Central & Front Control (AIO2) - Small Signal Board SSB



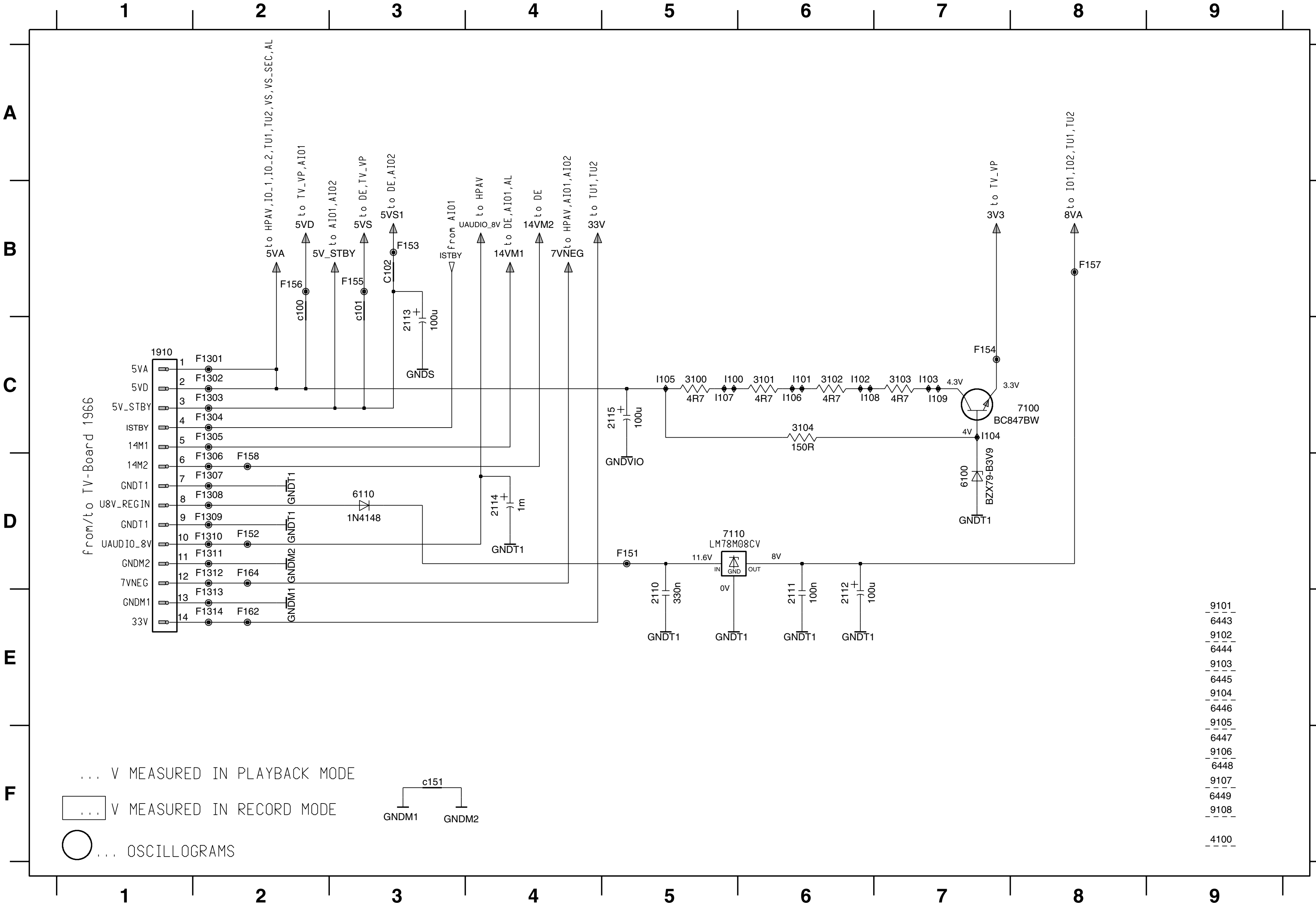
0040 A3	7901 B9
0041 A2	7902 C8
0042 C1	7920 A5
1880 F2	9906 C3
1881 F3	F900 D1
1882 F4	F901 C9
1883 F4	F902 C8
1884 F5	F903 D4
1885 F6	F905 C6
1886 D5	I878 A2
1887 D6	I879 A3
1888 F6	I880 B1
1901 B9	I881 B2
2900 E1	I885 B1
2901 E5	I886 B1
2902 E5	I900 C3
2903 E5	I901 C3
2904 E6	I902 C3
2905 D7	I903 C3
2906 F8	I904 C4
2907 E9	I905 C4
2908 D8	I906 C4
2909 D8	I907 C4
2910 D8	I908 C4
2911 B7	I909 C4
2912 C7	I910 C4
2913 C7	I911 C5
2920 B4	I912 C5
2921 B6	I913 C5
2922 B5	I914 C5
2923 B5	I915 C5
3880 B2	I916 C5
3884 A3	I917 C5
3885 B2	I918 C6
3900 D1	I919 C6
3901 D7	I920 C6
3902 F2	I921 C6
3903 F3	I923 E5
3904 F4	I924 E5
3905 F4	I925 E5
3906 F5	I926 E6
3907 F6	I928 E9
3908 E4	I929 E7
3909 E8	I930 F6
3913 F6	I931 F5
3914 A8	I932 F4
3915 B1	I933 F4
3916 A8	I934 F3
3917 A7	I935 F2
3918 A7	I936 E2
3919 B7	I937 F6
3920 A6	I938 C6
3921 A6	I939 D4
4901 F9	I940 D4
4902 A3	I941 B5
4903 B3	I942 B6
4904 B1	I943 A5
4905 D4	I944 C8
4907 C3	I945 B9
4908 C7	I946 B8
4909 C7	I947 A8
5900 C9	I948 A7
5901 F9	I949 A7
5902 B7	I950 C9
6801 A2	I951 C9
6802 B1	I952 D8
6803 A1	
6901 C9	
6902 B9	
7810 D2	
7820 B3	
7821 B3	
7822 C1	
7899-A C5	
7900 E8	

7.12 Deck Electronics (DE) - Small Signal Board SSB



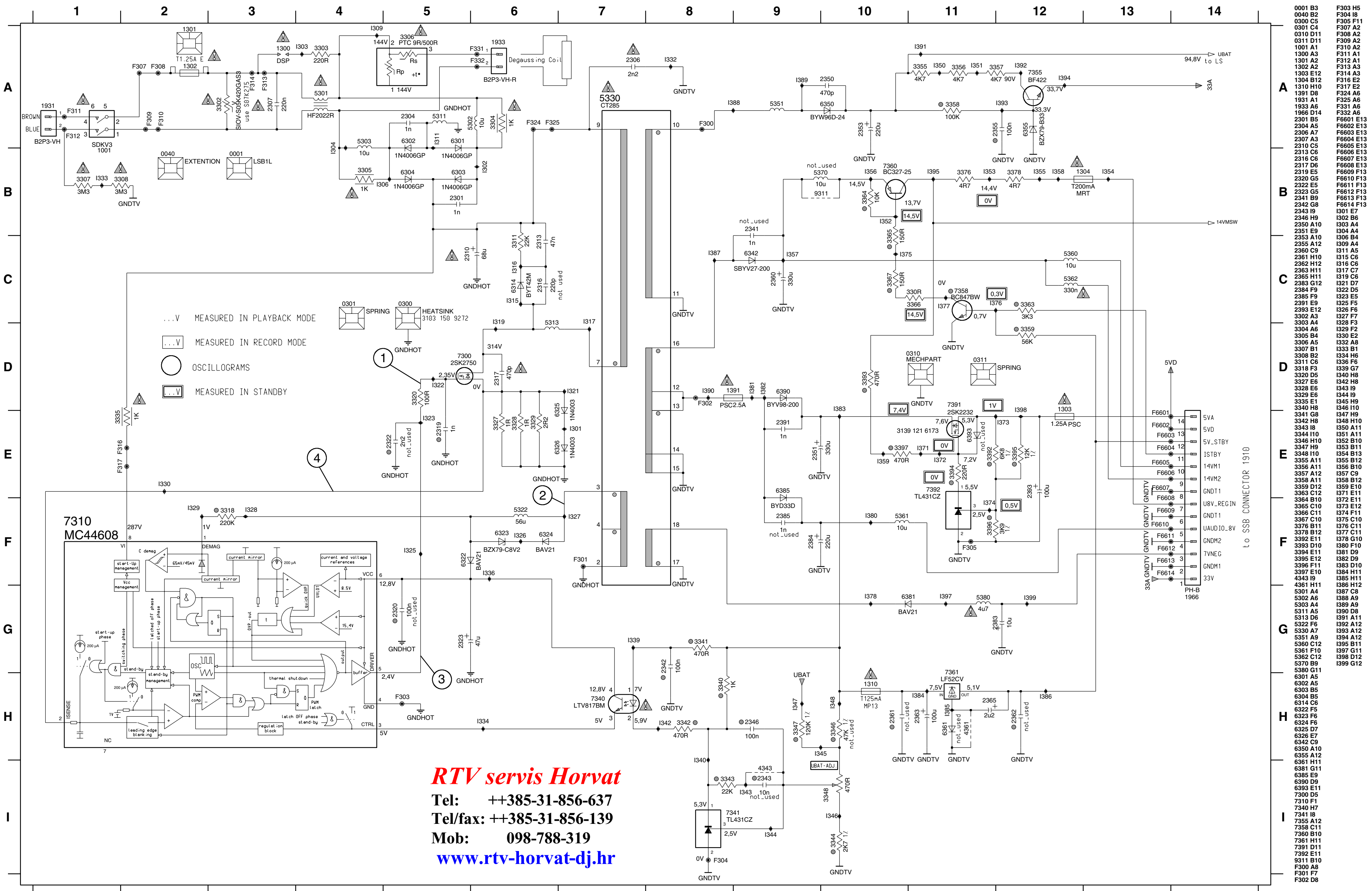
0007 E6
0008 E1
0010 F2
0011 F2
0200 E3
1946 F9
1947 B9
1948 A1
1969 F1
2459 D2
2460 A3
2461 A7
2462 A6
2463 A6
2464 A5
2465 B2
2466 B2
2467 B2
2468 A4
2469 B8
2470 B1
2471 B1
2472 B2
2473 C8
2474 C8
2475 C2
2476 C1
2477 C2
2478 A7
2479 D8
2480 D8
2481 D6
2482 E7
2483 F7
2484 E3
2485 E8
2486 E8
2487 F9
2488 C1
2489 C8
2490 C8
2491 B8
3460 A4
3461 A2
3462 A2
3463 A2
3464 A7
3465 A6
3466 B1
3467 B8
3468 C8
3469 D9
3470 D8
3471 D8
3472 D1
3473 D1
3474 D8
3475 D2
3476 D4
3477 D4
3478 D5
3479 D5
3480 F7
3481 F7
3482 E3
3483 E6
3484 E3
3485 E9
3486 F6
3488 B8
3489 E2
3490 D2
3491 A3
5460 A6
7463 B3
7464 E2
7465 F8
7466 E1
F4601 E9
F4602 E9
F4603 E9
F4604 E9
F4605 E9
F4606 E9
F4607 E9
F461 A5
F462 A5
F463 B5
F464 A6
F465 B6
F466 A7
F467 A7
F468 A7
F469 A7
F470 C1
F4701 B9
F4703 C9
F471 E6
F4801 A1
F4802 A1
F4803 A1
F4805 A1
I461 B1
I462 B2
I463 B3
I464 B4
I465 A4
I466 B5
I467 B8
I468 C8
I470 D8
I471 E8
I472 E5
I473 E5
I474 E4
I475 D4
I476 D1
I477 E3
I478 E1
I479 E2
I480 F6
I481 F7
I482 D2
I483 C2
I484 A2
I485 E1
I486 E1
I487 E1
I488 E1
I489 E1
I490 E1
I491 E1
I492 E1
I493 E1
c460 F1
c462 F1

7.13 Power Supply Part (PS) - Small Signal Board SSB

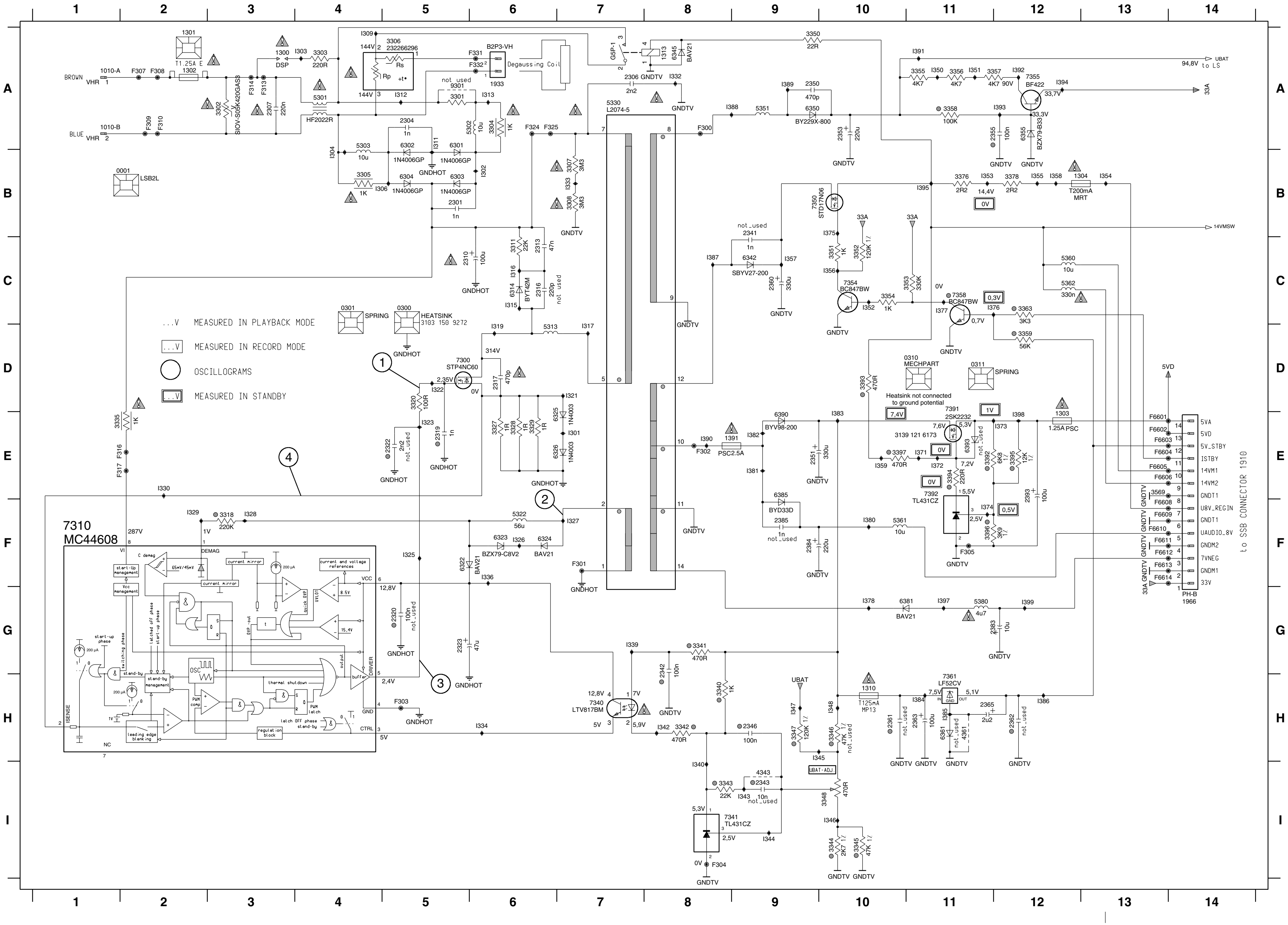


1910 C1
2110 E5
2111 E6
2112 E6
2113 C3
2114 D4
2115 C5
3100 C5
3101 C6
3102 C6
3103 C7
3104 C6
4100 F9
6100 D7
6110 D3
7100 C8
7110 D5
9101 E9
9102 E9
9103 E9
9104 E9
9105 F9
9106 F9
9107 F9
9108 F9
C102 B3
F1301 C2
F1302 C2
F1303 C2
F1304 C2
F1305 C2
F1306 D2
F1307 D2
F1308 D2
F1309 D2
F1310 D2
F1311 D2
F1312 D2
F1313 E2
F1314 E2
F151 D5
F152 D2
F153 B3
F154 C7
F155 B3
F156 B2
F157 B8
F158 D2
F162 E2
F164 D2
I100 C5
I101 C6
I102 C6
I103 C7
I104 C7
I105 C5
I106 C6
I107 C5
I108 C6
I109 C7
c100 B2
c101 B3
c151 F3

7.14 Power Supply 14” (PS) - Large Signal Board LSB1L14

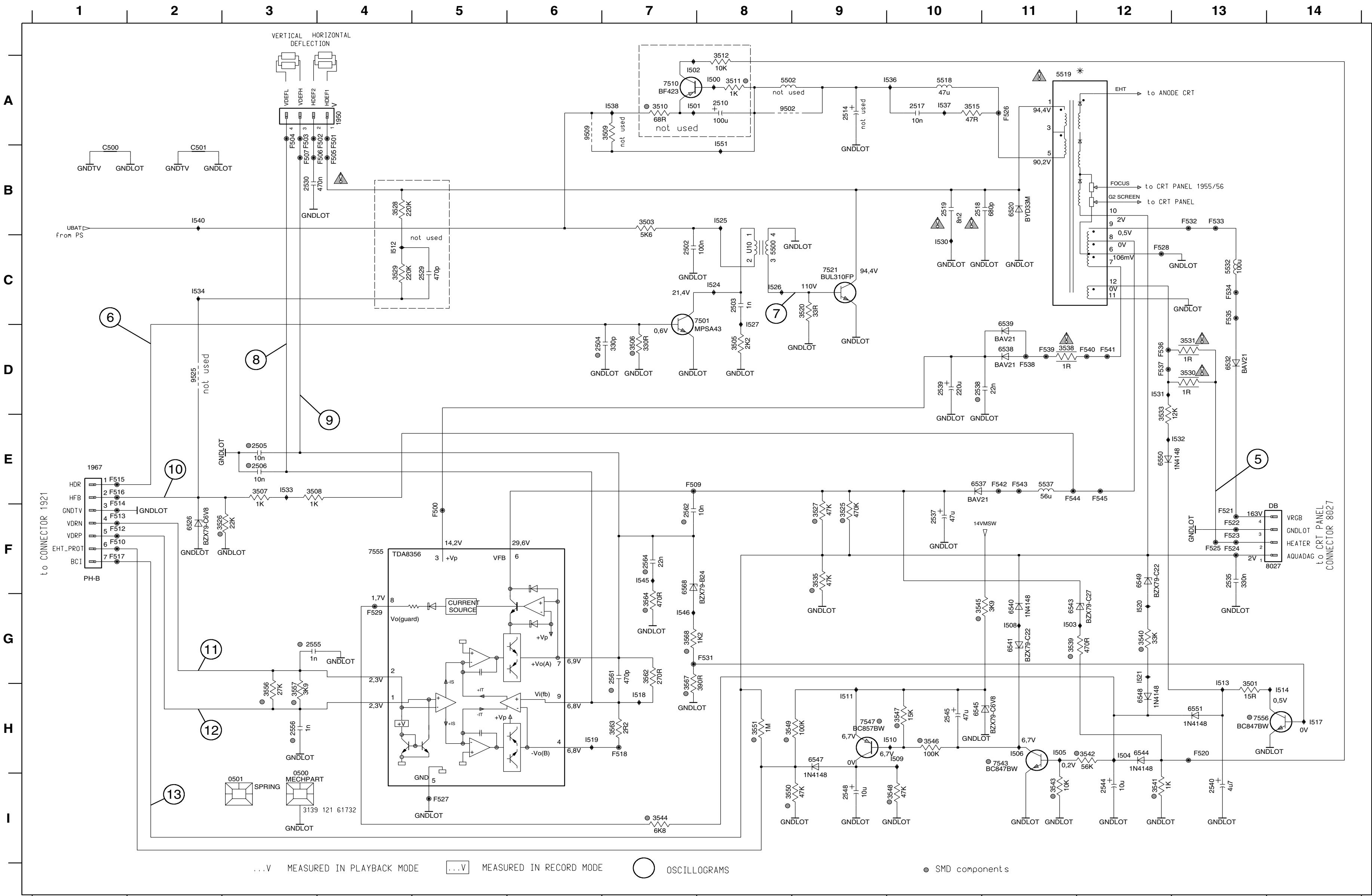


7.15 Power Supply 20”/21” (PS) - Large Signal Board LSB2L21



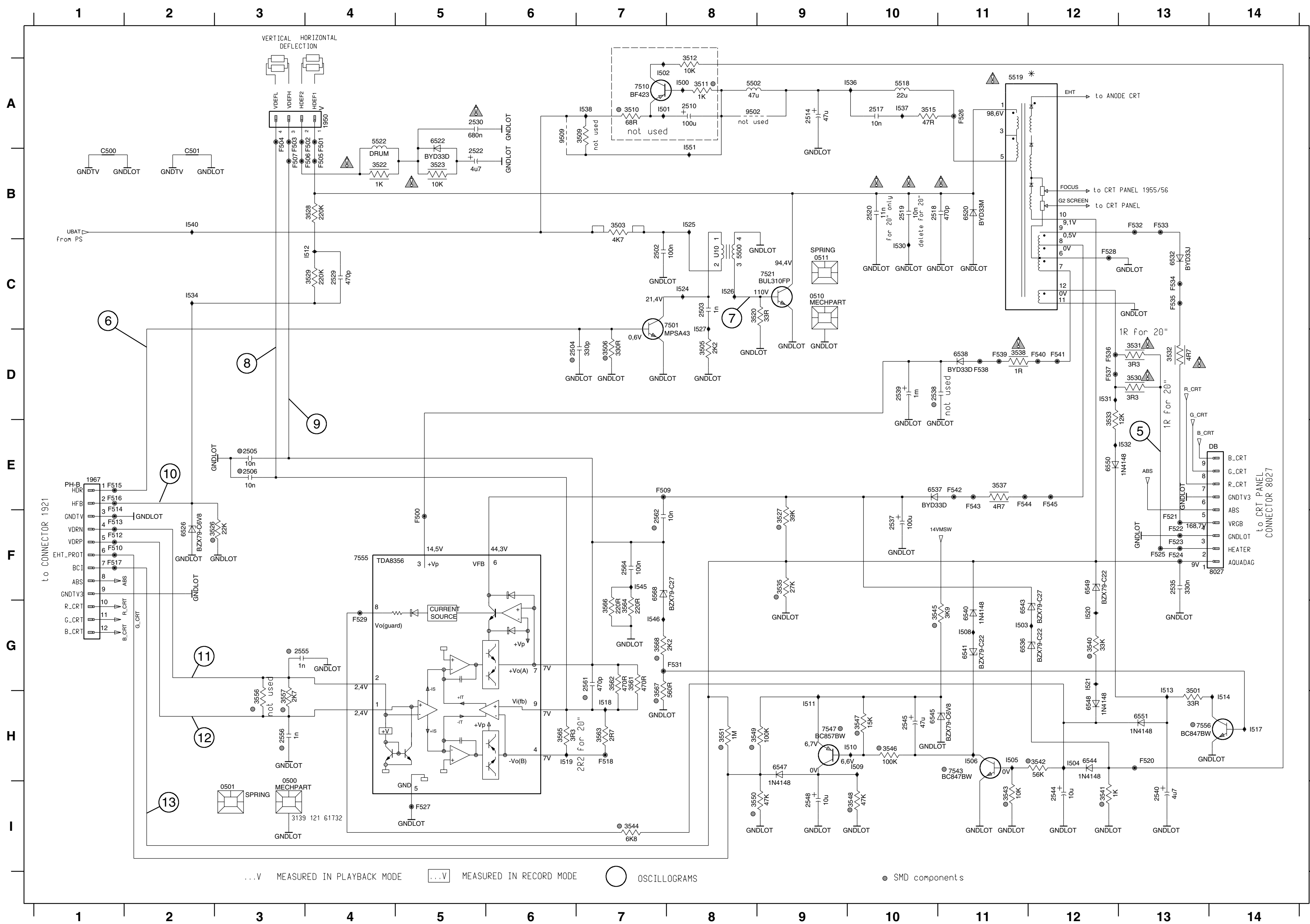
0001 B1	F301 F7
0300 C5	F302 E8
0301 C4	F303 H5
0310 D11	F304 I8
0311 D11	F305 F11
1010-A A1	F307 A2
1010-B A1	F308 A2
1300 A3	F309 A2
1301 A2	F310 A2
1302 A2	F313 A3
1303 E12	F314 A3
1304 B12	F316 E2
1310 H10	F317 E2
1313 A8	F324 A6
1391 E8	F325 A6
1933 A6	F331 A6
1966 G14	F332 A6
2301 B5	F6601 E13
2304 A5	F6602 E13
2306 A7	F6603 E13
2307 A3	F6604 E13
2310 C5	F6605 E13
2313 C6	F6606 E13
2316 C6	F6608 F13
2317 D6	F6609 F13
2319 E5	F6610 F13
2320 G5	F6611 F13
2322 E5	F6612 F13
2323 G5	F6613 F13
2341 B9	F6614 F13
2342 G8	I301 E7
2343 I9	I302 B6
2346 H9	I303 A4
2350 A9	I304 B4
2351 E9	I306 B4
2353 A10	I309 A4
2355 A12	I311 A5
2360 C9	I312 A5
2361 H10	I313 A6
2362 H12	I315 C6
2363 H11	I316 C6
2365 H11	I317 D7
2383 G12	I319 D6
2384 F9	I321 D7
2385 F9	I322 D5
2393 E12	I323 E5
3301 A5	I325 F5
3302 A3	I326 F6
3303 A4	I327 F7
3304 A6	I328 F3
3305 B4	I329 F2
3306 A5	I330 E2
3307 B7	I332 A8
3308 B7	I333 B7
3311 C6	I334 H6
3318 F3	I336 F6
3320 D5	I339 G7
3327 E6	I340 I8
3328 E6	I342 H8
3329 E6	I343 I9
3335 E1	I344 I9
3340 H8	I345 H9
3341 G8	I346 I10
3342 H8	I347 H9
3343 I8	I348 H10
3344 I10	I350 A11
3345 I10	I351 A11
3346 H10	I352 C10
3347 H9	I353 B11
3348 I10	I354 B13
3350 A9	I355 B12
3351 C10	I356 C10
3352 C10	I357 C9
3353 C11	I358 B12
3354 C10	I359 E10
3355 A11	I371 E11
3356 A11	I372 E11
3357 A12	I373 E12
3358 A11	I374 F11
3359 D12	I375 B10
3363 C12	I376 C11
3376 B11	I377 C11
3378 B12	I378 G10
3392 E11	I380 F10
3393 D10	I381 E9
3394 E11	I382 E9
3395 E12	I383 E10
3396 F11	I384 H11
3397 E10	I385 H11
3569 E13	I386 H12
4343 I9	I387 C8
4361 H11	I388 A9
5301 A4	I389 A9
5302 A6	I390 E8
5303 A4	I391 A11
5313 D6	I392 A12
5322 F6	I393 A12
5330 A7	I394 A12
5351 A9	I395 B11
5360 C12	I397 G11
5361 F10	I398 E12
5362 C12	I399 G12
5380 G11	
6301 A5	
6302 A5	
6303 B5	
6304 B5	
6314 C6	
6322 F5	
6323 F6	
6324 F6	
6325 E7	
6326 E7	
6342 C9	
6345 A8	
6350 A9	
6355 A12	
6361 H11	
6381 G11	
6385 E9	
6390 E9	
6393 E11	
7300 D5	
7310 F1	
7340 H7	
7341 I8	
7350 B9	
7354 C10	
7355 A12	
7358 C11	
7361 H11	
7391 D11	
7392 E11	
9301 A5	
F300 A8	

7.16 Deflection 14" (LS) - Large Signal Board LSB1L14



0500 I3
0501 I3
1950 A4
1967 E1
2502 C7
2503 C8
2504 D6
2505 E3
2506 E3
2510 A8
2514 A9
2517 A10
2518 B10
2519 B10
2529 C5
2530 B3
2535 F13
2537 F10
2538 D10
2539 D10
2540 I13
2544 I12
2545 H10
2548 I9
2555 G3
2556 H3
2561 G7
2562 F7
2564 F7
3501 H13
3503 B7
3505 D8
3506 D7
3507 E3
3508 E3
3509 A7
3510 A7
3511 A8
3512 A8
3515 A10
3520 C9
3525 F9
3526 F2
3527 F9
3528 B4
3529 C4
3530 D13
3531 D13
3533 D12
3535 F9
3538 D11
3539 G11
3540 G12
3541 I12
3542 H12
3543 I11
3544 I7
3545 G10
3546 H10
3547 H10
3548 I10
3549 H8
3550 I8
3551 H8
3556 H3
3557 H3
3562 G7
3563 H7
3564 G7
3567 G7
3568 G7
5500 C8
5502 A8
5518 A10
5519 A11
5532 C13
5537 E11
6520 B11
6526 F2
6532 D13
6537 E10
6538 D11
6539 D11
6540 G11
6541 G11
6543 G11
6544 H12
6545 H10
6547 H9
6548 H12
6549 F12
6550 E12
6551 H13
6568 F7
7501 C7
7510 A7
7521 C9
7543 H11
7547 H9
7555 F4
7556 H14
8027 F13
9502 A8
9509 A6
9525 D2
C500 B1
C501 B2
F500 F5
F501 A4
F502 A4
F503 A3
F504 A3
F505 B4
F506 B4
F507 B3
F509 E7
F510 F1
F512 F1
F513 F1
F514 F1
F515 E1
F516 E1
F517 F1
F518 H7
F520 H13
F521 F13
F522 F13
F523 F13
F524 F13
F525 F13
F526 A11
F527 I5
F528 C12
F529 G4
F531 G8
F532 B13
F533 B13
F534 C13
F535 C13
F536 D12
F537 D12
F538 D11
F539 D11
F540 D12
F541 D12
F542 E11
F543 E11
F544 E11
F545 E12
I500 A8
I501 A7
I502 A7
I503 G11
I504 H12
I505 H11
I506 H11
I508 G11
I509 H10
I510 H10
I511 H9
I512 C4
I513 G13
I514 H14
I517 H14
I518 H7
I519 H6
I520 G12
I521 G12
I524 C8
I525 B8
I526 C8
I527 C8
I530 C10
I531 D12
I532 E13
I533 E3
I534 C2
I536 A10
I537 A10
I538 A7
I540 B2
I545 F7
I546 G7
I551 A8

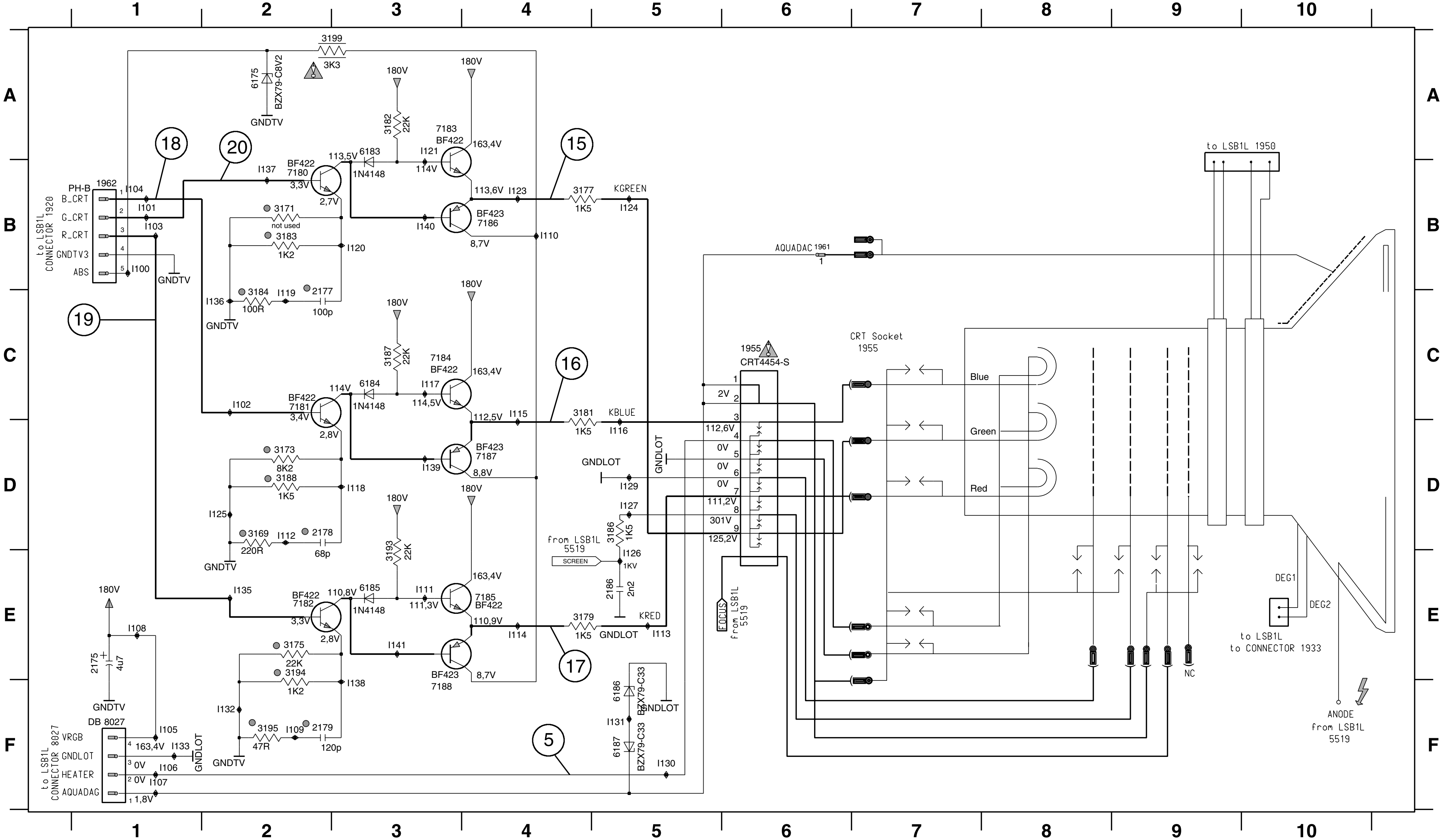
7.17 Deflection 20"/21" (LS) - Large Signal Board LSB2L21



0500 I3
0501 I3
0510 C9
0511 C9
1950 A4
1967 E1
2502 C7
2503 C8
2504 D6
2505 E3
2506 E3
2510 A8
2514 A9
2517 A10
2518 B10
2519 B10
2520 B10
2522 B5
2529 C4
2530 A5
2535 F13
2537 F10
2538 D10
2539 D10
2540 I13
2544 I12
2545 H10
2548 I9
2555 G3
2556 H3
2561 G7
2562 F7
2564 F7
3501 H13
3503 B7
3505 D8
3506 D7
3509 A7
3510 A7
3511 A8
3512 A8
3515 A10
3520 C8
3522 B4
3523 B5
3526 F2
3527 F9
3528 B4
3529 C4
3530 D13
3531 D13
3532 D13
3533 D12
3535 F9
3537 E11
3538 D11
3540 G12
3541 I12
3542 H12
3543 I11
3544 I7
3545 G10
3546 H10
3547 H10
3548 I10
3549 H8
3550 I8
3551 H8
3556 H3
3557 H3
3561 G7
3562 G7
3563 H7
3564 G7
3565 H6
3566 G7
3567 G7
3568 G7
5500 C8
5502 A8
5518 A10
5519 A11
5522 A4
6520 B11
6522 A5
6526 F2
6532 C13
6536 G11
6537 E10
6538 D11
6540 G11
6541 G11
6543 G11
6544 H12
6545 H10
6547 H9
6548 H12
6549 F12
6550 E12
6551 H13
6568 F7
7501 C7
7510 A7
7521 C9
7543 H11
7547 H9
7555 F4
7556 H14
8027 F14
9502 A8
9509 A6
C500 B1
C501 B2
F500 F5
F501 A4
F502 A4
F503 A3
F504 A3
F505 B4
F506 B4
F507 B3
F509 E7
F510 F1
F512 F1
F513 F1
F514 F1
F515 E1
F516 E1
F517 F1
F518 H7
F520 H13
F521 F13
F522 F13
F523 F13
F524 F13
F525 F13
F526 A11
F527 I5
F528 C12
F529 G4
F531 G8
F532 B13
F533 B13
F534 C13
F535 C13
F536 D12
F537 D12
F538 D11
F539 D11
F540 D12
F541 D12
F542 E11
F543 E11
F544 E11
F545 E12
I500 A8
I501 A7
I502 A7
I503 G11
I504 H12
I505 H11
I506 H11
I508 G11
I509 H10
I510 H10
I511 H9
I512 C4
I513 G13
I514 H14
I517 H14
I518 H7
I519 H6
I520 G12
I521 G12
I524 C8
I525 B8
I526 C8
I527 C8
I530 C10
I531 D12
I532 E13
I534 C2
I536 A10
I537 A10
I538 A7
I540 B2
I545 F7
I546 G7
I551 A8

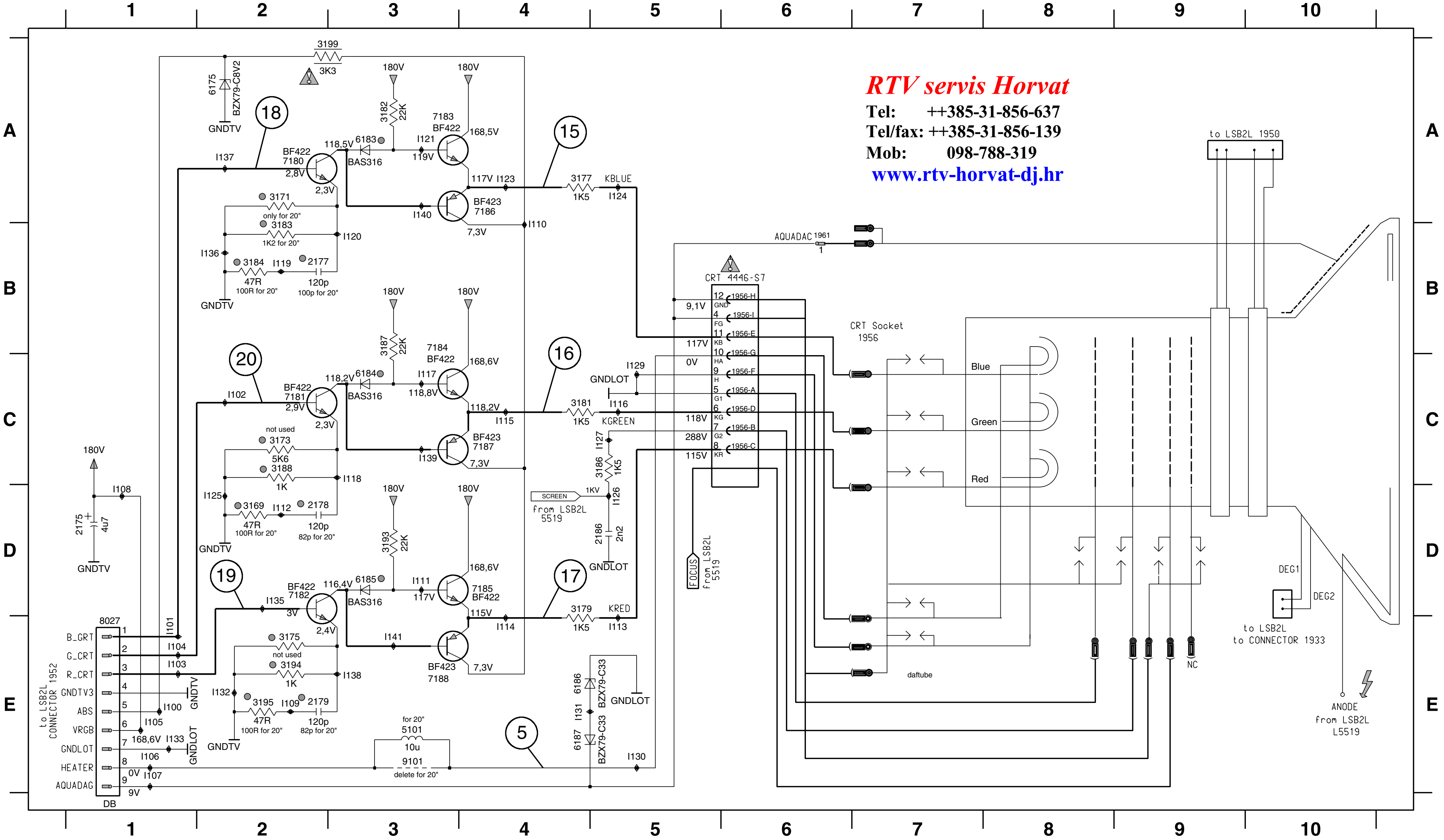
7.18 CRT Panel 14” (PT) - LSB1L14

1955 B6	2177 C2	3169 D2	3177 B4	3183 B2	3188 D2	3199 A3	6185 E3	7181 C2	7185 E4	8027 F1	I103 B1	I107 F1	I111 E3	I115 C4	I119 C2	I124 B5	I129 C5	I133 F1	I138 F3	SCREEN D5
1961 B6	2178 D2	3171 B2	3179 E4	3184 C2	3193 E3	6175 A2	6186 F5	7182 E2	7186 B4	I100 B1	I104 B1	I108 E1	I112 D2	I116 D5	I120 B3	I125 D2	I130 F5	I135 E2	I139 D3	
1962 B1	2179 F2	3173 D2	3181 C4	3186 D5	3194 E2	6183 A3	6187 F5	7183 A3	7187 D4	I101 B1	I105 F1	I109 F2	I113 E5	I117 C3	I121 A3	I126 D5	I131 F5	I136 C2	I140 B3	
2175 E1	2186 D5	3175 E2	3182 A3	3187 C3	3195 F2	6184 C3	7180 B2	7184 C3	7188 F3	I102 C2	I106 F1	I110 B4	I114 E4	I118 D3	I123 B4	I127 D5	I132 F2	I137 B2	I141 E3	



7.19 CRT Panel 20”/21” (PT) - LSB2L21

1956-A C6	1956-F C6	2175 D1	3169 D2	3179 D4	3186 C5	3195 E2	6184 C3	7181 C2	7186 A4	I100 E1	I105 E1	I110 B4	I115 C4	I120 B3	I126 D5	I132 E2	I138 E3
1956-B C6	1956-G C6	2177 B2	3171 A2	3181 C4	3187 B3	3199 A2	6185 D3	7182 D2	7187 C4	I101 E1	I106 E1	I111 D3	I116 C5	I121 A3	I127 C5	I133 E1	I139 C3
1956-C C6	1956-H B6	2178 D2	3173 C2	3182 A3	3188 C2	5101 E3	6186 E4	7183 A3	7188 E3	I102 C2	I107 E1	I112 D2	I117 C3	I123 A4	I129 E5	I135 D2	I140 A3
1956-D C6	1956-I B6	2179 E2	3175 E2	3183 B2	3193 D3	6175 A2	6187 E4	7184 B3	8027 E1	I103 E1	I108 D1	I113 E5	I118 C3	I124 A5	I130 E5	I136 B2	I141 E3
1956-E B6	1961 B6	2186 D5	3177 A4	3184 B2	3194 E2	6183 A3	7180 A2	7185 D4	9101 E3	I104 E1	I109 E2	I114 E4	I119 B2	I125 D2	I131 E4	I137 A2	SCREEN D4



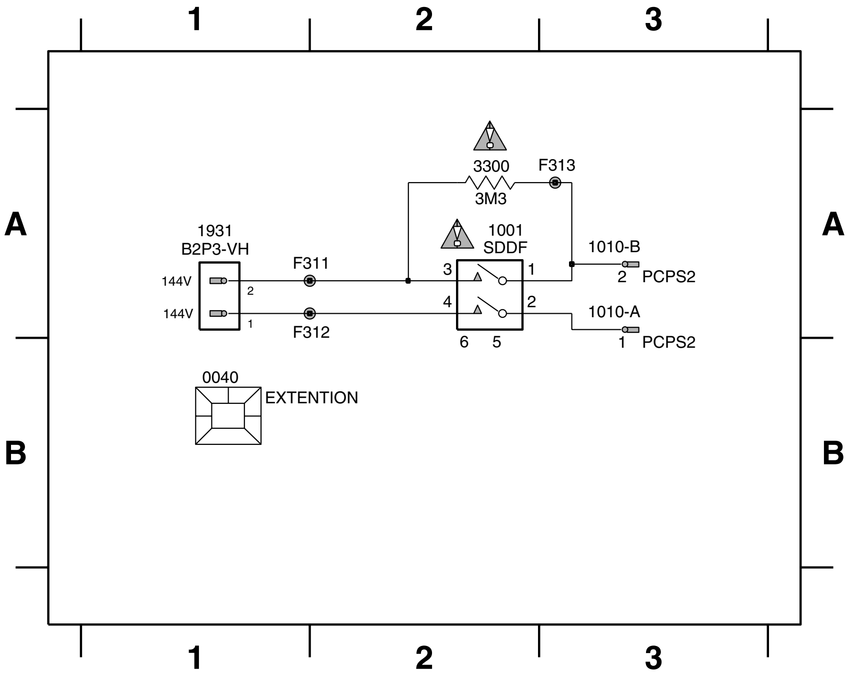
...V MEASURED IN PLAYBACK MODE

[...V] MEASURED IN RECORD MODE

OSCILLOGRAMS

SMD components

7.20 Mains Switch Board 20”/21” (MS) - LSB2L21



0040 B1
1001 A2
1010-A A3
1010-B A3
1931 A1
3300 A2
F311 A2
F312 A2
F313 A3

7.21 Diversity Matrix Tuner 1 / 2

Pos.	PAL B/G FM-MONO	PAL I FM-MONO	PAL,SEC B/G,D/K FM-MONO	PAL B/G/I,SEC L,L´ FM/AM-MONO	Function TUNER 1
1700	ENV57D57G3	ENV57D57G3	ENV57D57G3	-	Tuner PANASONIC 1Tuner Set
1700	ENV57D59H6	ENV57D59H6	ENV57D59H6	-	Tuner PANASONIC 2Tuner Set
1700	TEDE9 213A	TEDE9 213A	TEDE9 213A	TEDE9 213A	Tuner ALPS 1Tuner Set
1700	TEDE9 703A	TEDE9 703A	TEDE9 703A	TEDE9 703A	Tuner ALPS 2Tuner Set
1701	EFC 5.5	-	EFC 6.5	EFC 5.5	FM IF Sound BP
1710	G1961M	G1965M	G1965M	G1965M	Interc. OFW
1730	TP5,5	TP6,0	TW02B(5,5/6,5MHz)	TW03B(5,5/6,0MHz)	Video Trap
3718	-	-	470E	-	
3733	680E	470E	390E	330E	Trap Input
3739	680E	560E	390E	330E	Trap Input
5731	15uH	15uH	8,2uH	8,2uH	Trap-Coil
7200	TDA9350/60/80	TDA9350/60/80	TDA9351/61/81	TDA9351/61/81	UOC

Pos.	PAL B/G FM-MONO	PAL I FM-MONO	PAL,SEC B/G,D/K FM-MONO	PAL B/G/I,SEC L,L´ FM/AM-MONO	Function TUNER 2
1760	ENV57D58G3E	ENV57D58G3E	ENV57D58G3E	-	Tuner PANASONIC
1760	TEDE9 218A	TEDE9 218A	TEDE9 218A	TEDE9 218A	Tuner ALPS
1765	G1961M	G1965M	K3953M	K3953M	Video/Interc. OFW
1767	TPS5,5	TPS6,0	TPS5,5	TPS5,5	Video Trap
1768	EFC5,5	EFC6,0	EFC5,5	EFC5,5	Sound-Filter
1769	-	-	EFC6,5	EFC6,0	Sound-Filter
3780	470E	470E	470E	390E	Trap Input
3781	5k6	5k6	5k6	5k6	Trap Output
7770	TDA9817	TDA9817	TDA9817	TDA9818	Demodulator