

Service

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Service Information

Convergence Alignment

The set should be warmed up for at least 20 minutes prior to making any Geometry or Convergence adjustments.

A signal must be applied to the set, for the Mode being adjusted, while performing Convergence or Geometry alignments. This is necessary to provide the correct Line and Frame sync to the Convergence panel. Failure to do so will result in an out of convergence picture when signal is applied to the set. The set must be converged twice, once for PAL or SECAM and once for NTSC. Since the Line and Frame rate is the same for PAL and SECAM, it is not necessary to adjust for both.

The Serviced Technician should sit at least 5 to 10 feet from the front of the screen while doing Convergence. Ensure that you are eye level with the area of the screen you are adjusting.

When performing Digital Convergence, the adjustments are interactive. A change in one quadrant will affect adjacent areas of the screen. Several passes through the Convergence sequence may be necessary. When doing Convergence, it is advised to follow the sequence pattern when going from one adjustment location to another. Pressing the Right Cursor key will sequence the icon through a preloaded sequence.

When the Convergence error is small, a touch up Convergence will be all that is necessary. Do not adjust Green Geometry while in this mode. A complete in-depth Convergence is required when the Small Signal Module (SSM) or the Convergence Memory IC, has been replaced. If the SSB (Small Signal Board) or the Large Signal Board (LSB) has been replaced, a complete in-depth Geometry should be completed before Convergence is adjusted. The Geometry alignment should not be necessary if the SSB or LSB have not been changed.

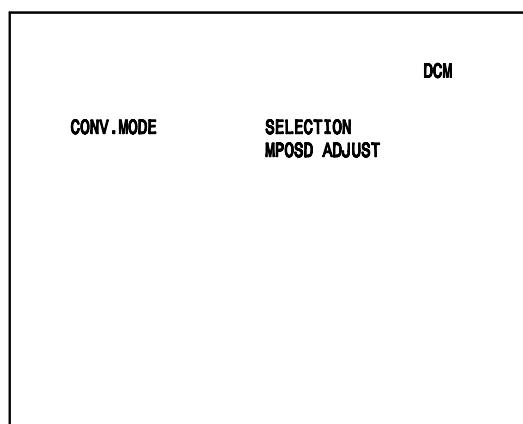
When performing a complete in-depth Convergence alignment, a Screen Template is necessary to obtain the correct Geometry. The correct Templates are listed below:

43 INCHST4168
50 INCHST4169
55 INCHST4170

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Touch-up Convergence adjustments

Ensure that a signal is connected to the set for the Mode being adjusted. Enter the Digital Convergence Mode (DCM) by entering 0-6-2-5-9-7-(Status or Index) on the Remote control. The following menu will appear:



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110501

Figure 1

Select an active channel or Aux Input. A signal must be applied to the set when performing convergence. If any Customer Adjustments need to be made, the Menu button can be used to toggle between the Customer Menu and DCM. The MPOSD ADJUST is used to center the Customer Convergence grid. A highlighted cross will appear along with the Convergence alignment grid. The highlighted cross should be centered onto the center of the Convergence grid.



PHILIPS

To perform a Touch Up Convergence, highlight SELECTION and press the right cursor button on the remote. The following menu will appear:

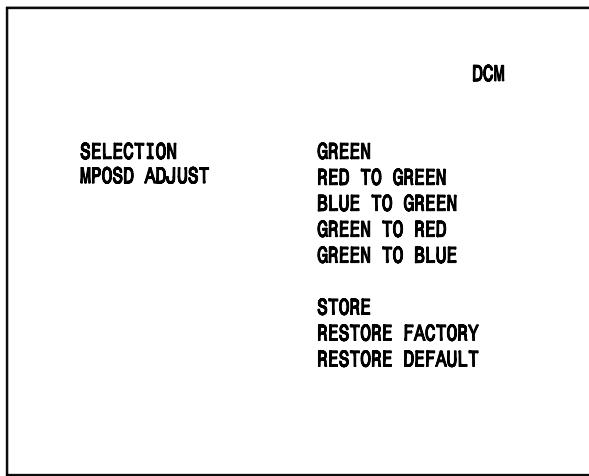


Figure 2

Selections STORE, RESTORE FACTORY, and RESTORE DEFAULT are not shown after selecting SELECTION. Press the cursor down button on the Remote for these selections to appear. RESTORE FACTORY loads Convergence defaults from the Factory Loaded section of the Convergence Memory IC. RESTORE DEFAULT loads Convergence defaults from the sets software.

To perform a Touch-up Convergence:

1. Enter the Convergence Mode and select RED TO GREEN or BLUE TO GREEN. Do not select GREEN (Green Geometry) without placing a Template over the screen. To perform Green Geometry, refer to the Complete in-depth Convergence.
2. Use the Cursor buttons on the Remote to Navigate from one adjustment point to another. Press the Status or Index button on the Remote to select ADJUST. Use the cursor buttons on the Remote to adjust the Red to Green or Blue to Green. Press the Status or Index button again to navigate to the next adjustment location.
3. After Convergence alignments are complete, press the Menu button on the Remote to return to the SELECTION menu.
4. Highlight the STORE selection and press the right cursor key on the Remote to save changes.
5. Use the GREEN TO RED or GREEN TO BLUE selections to perform convergence when the Green CRT has been replaced.

Complete in-depth Convergence

SCREEN CENTERING

1. Make sure a signal is applied to the set for the mode being adjusted.
2. Enter the Convergence mode by entering 0-6-2-5-9-7-(Status or Index). Select an active channel or input. If the Customer settings need to be adjusted, pressing the Menu button will access the Customer menu.
3. Place a Template over the screen.
4. Select GREEN in the SELECTION menu.
5. Place a jumper across connector 1005 on the SSM to defeat convergence drive.
6. Using the centering rings on the Green CRT, center the convergence pattern onto the center point of the Convergence Template.
7. Press the Menu button on the Remote to return to the SELECTION menu.
8. Select RED TO GREEN in the menu.
9. Center the Red pattern onto the Green pattern.
10. Select BLUE TO GREEN in the SELECTION menu.
11. Center the Blue pattern onto the Green pattern.

12. Remove the Jumper on connector 1005.

Note: If a CRT has been replaced, it is only necessary to perform Screen Centering for the CRT being replaced.

GREEN GEOMETRY

1. Make sure a signal is applied to the set.
2. Enter the Convergence mode by entering 0-6-2-5-9-7-(Status or Index). Use the Menu button to toggle between DCM and Customer Mode. Select an active channel or input while in the Customer Mode.
3. Place a Template over the Screen.
4. Select GREEN in the SELECTION menu.
5. The Icon will appear in the center of the screen. Press the Right Cursor key on the remote to move the Icon to the next adjustment location. At each location press the Status or Index button to enter the ADJUST mode. Using the Cursor keys, adjust the Icon onto the adjustment point on the template. It is recommended that the two outside vertical lines not be adjusted in the first two passes.
6. Continue to follow the pattern and make corrections until the Convergence Crosshatch pattern matches the Template.
7. Press the Menu button to return to the SELECTION menu.
8. Use the Cursor down key to highlight the STORE selection.
9. Press the Right cursor key to save the alignments.
10. Remove the Template.

RED CONVERGENCE

1. Select RED TO GREEN in the SELECTION menu.
2. Adjust the Red crosshatch pattern onto the green pattern in the same manner that Green was adjusted to the Template.
3. Save the alignments.

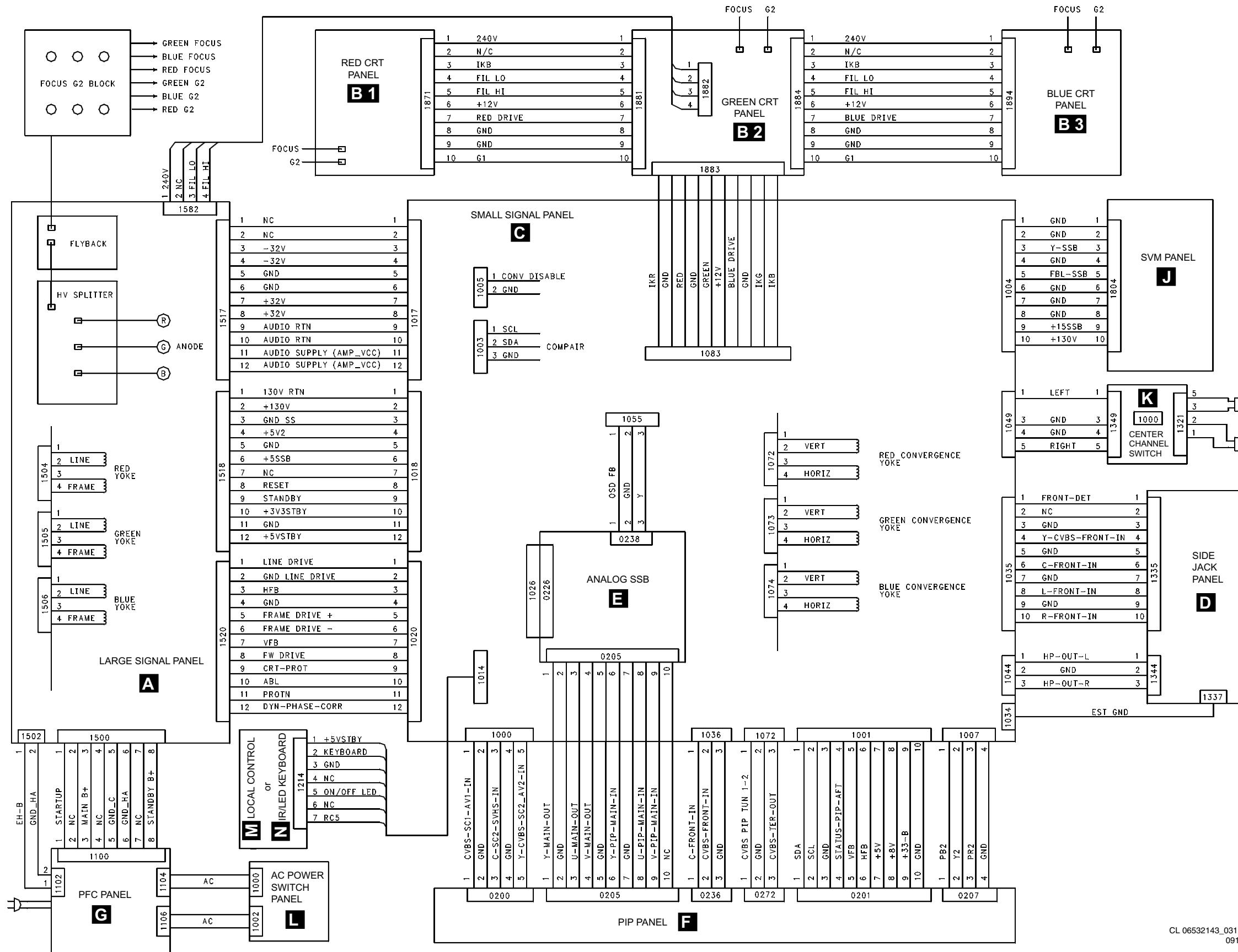
BLUE CONVERGENCE

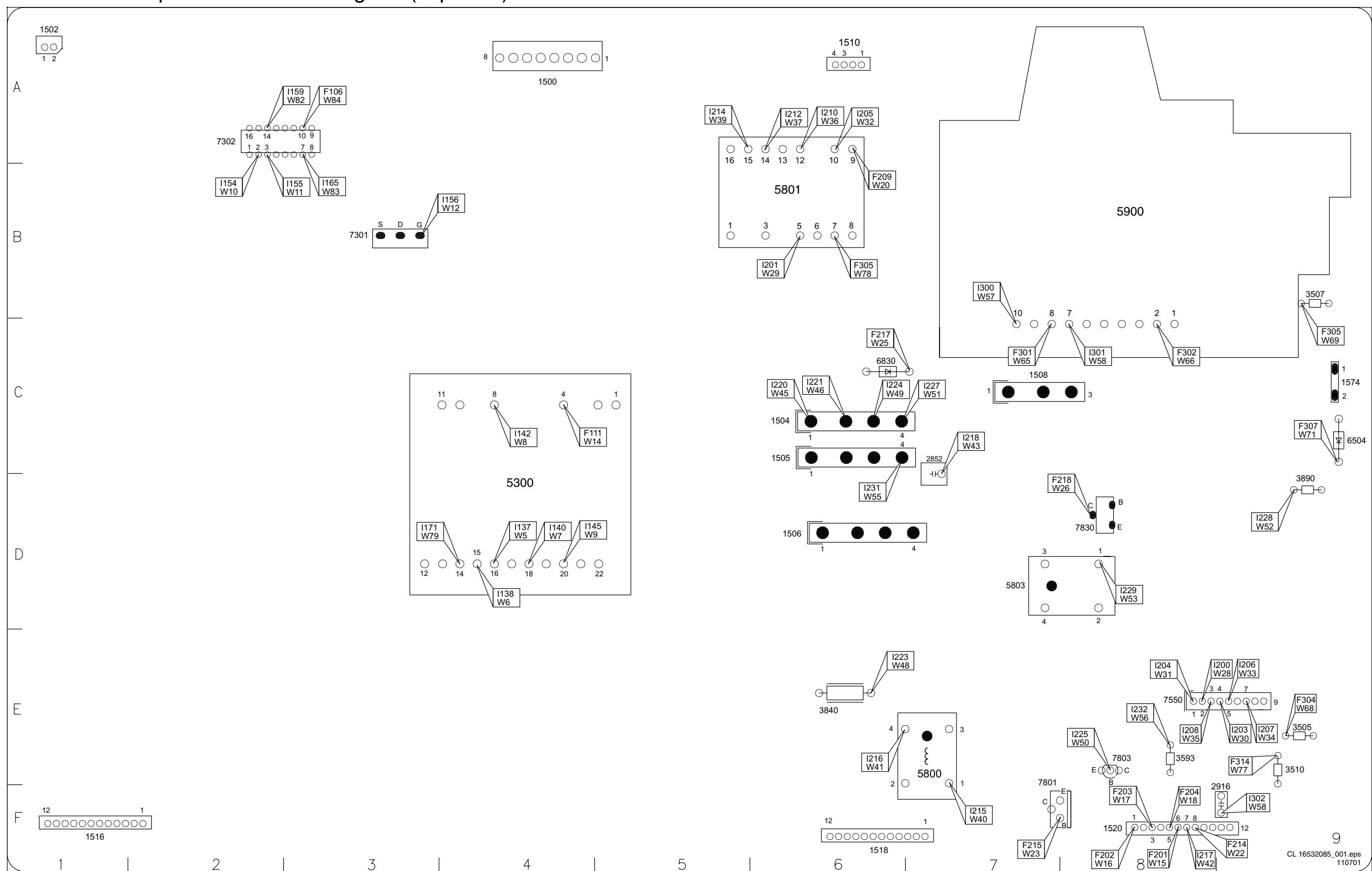
1. Select BLUE TO GREEN in the SELECTION menu.
2. Adjust the Blue crosshatch pattern onto the green pattern in the same manner that Green was adjusted to the Template.
3. Save the alignments.

6. Block- and Wiring Diagram, Testpoint Overview and Oscillogramms

Block Diagram

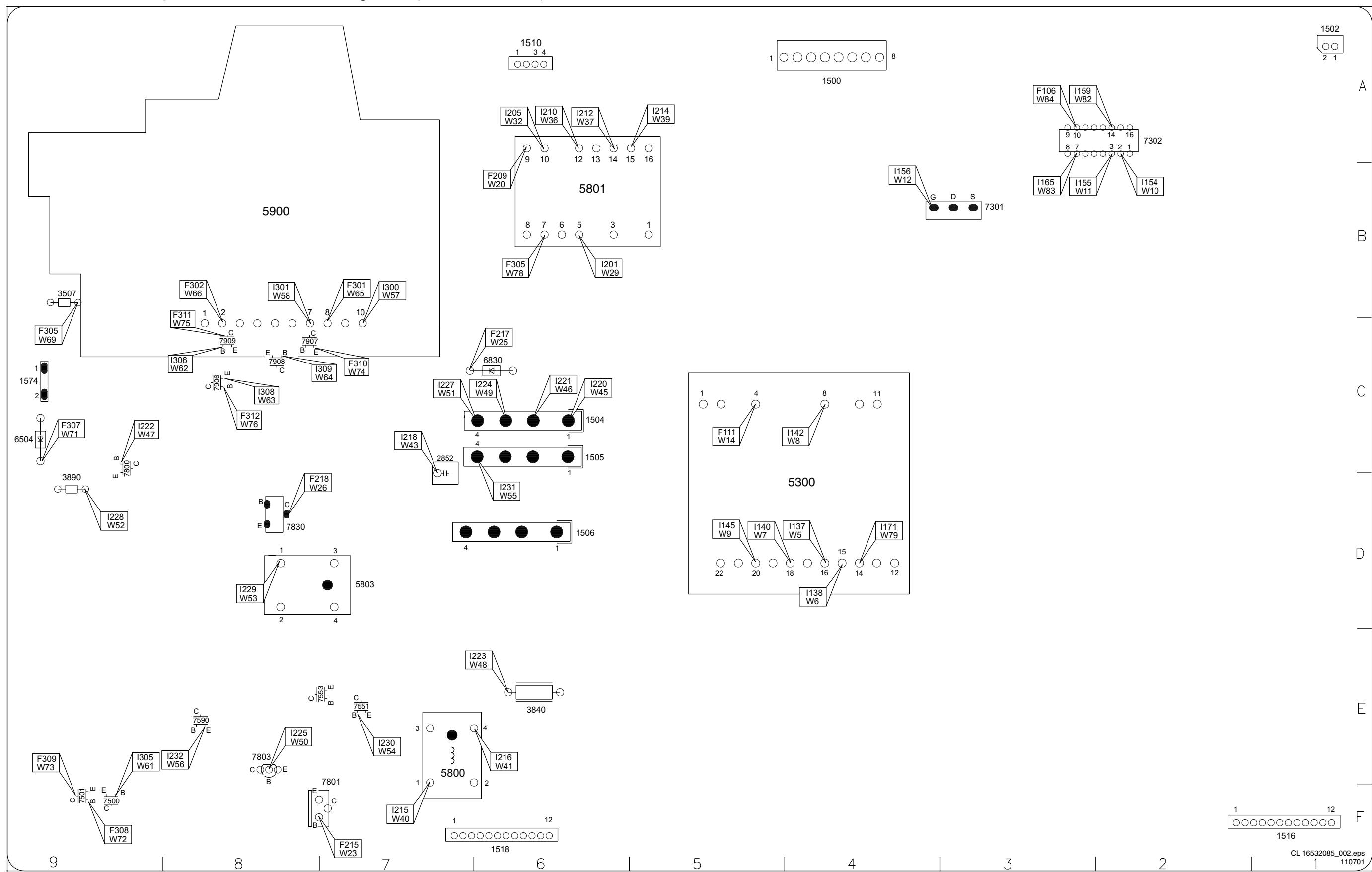
BLOCK DIAGRAM

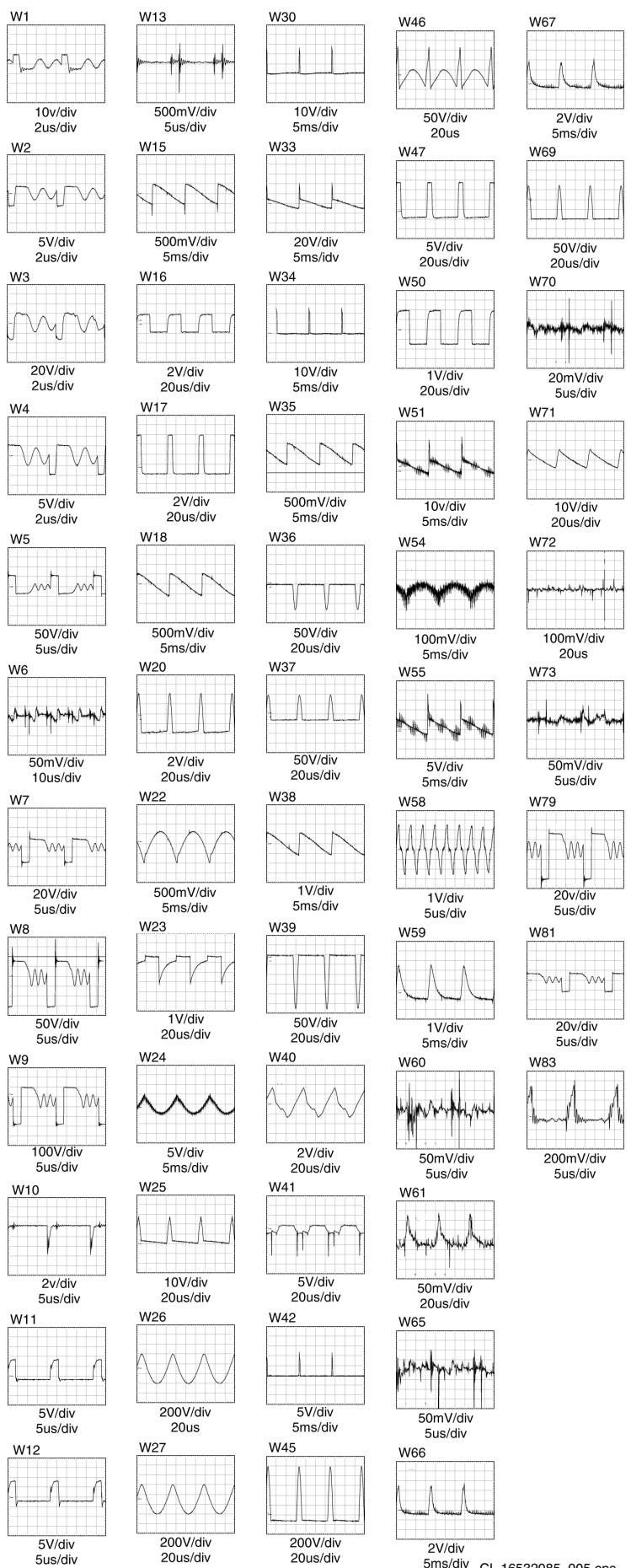
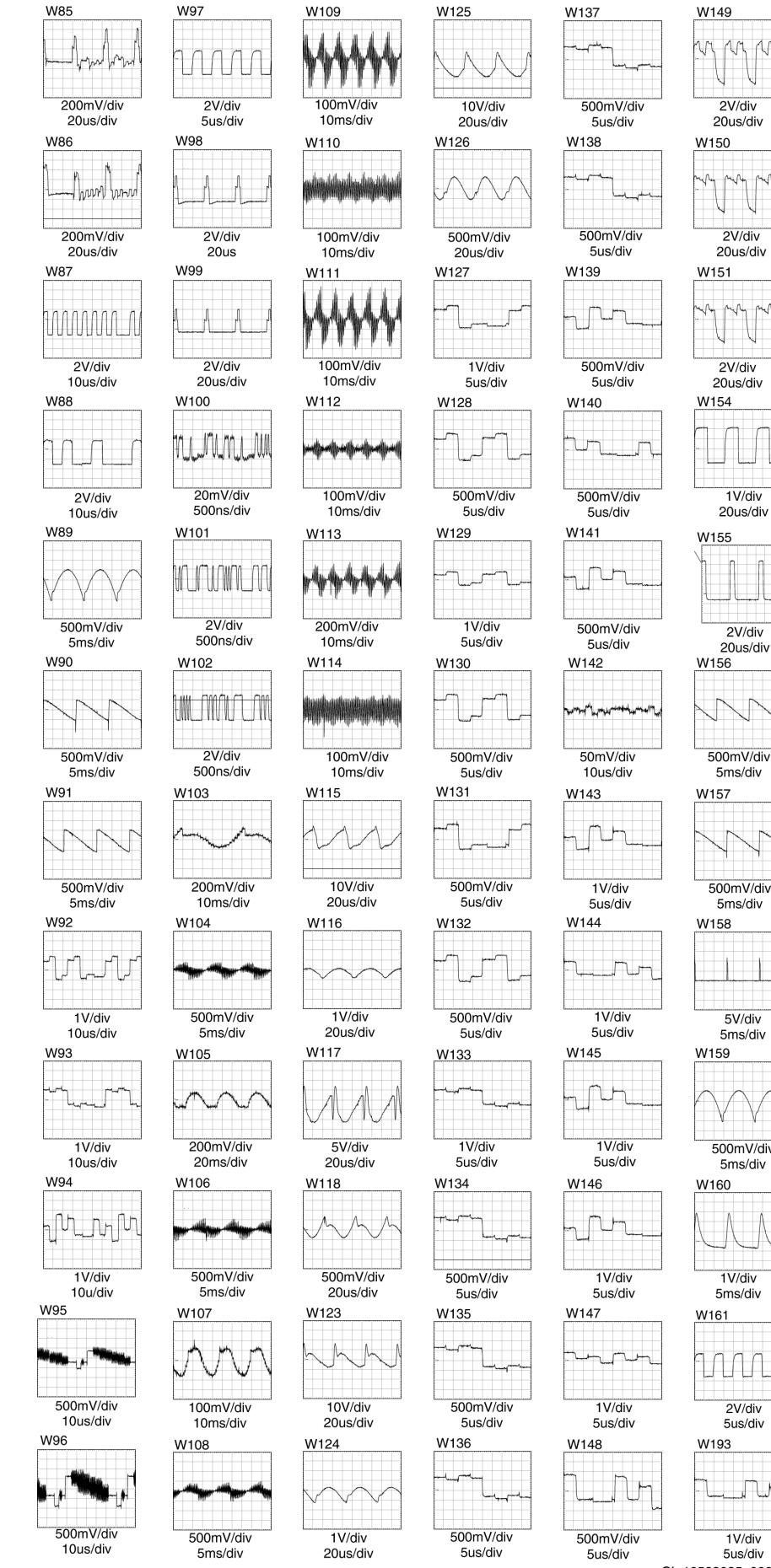


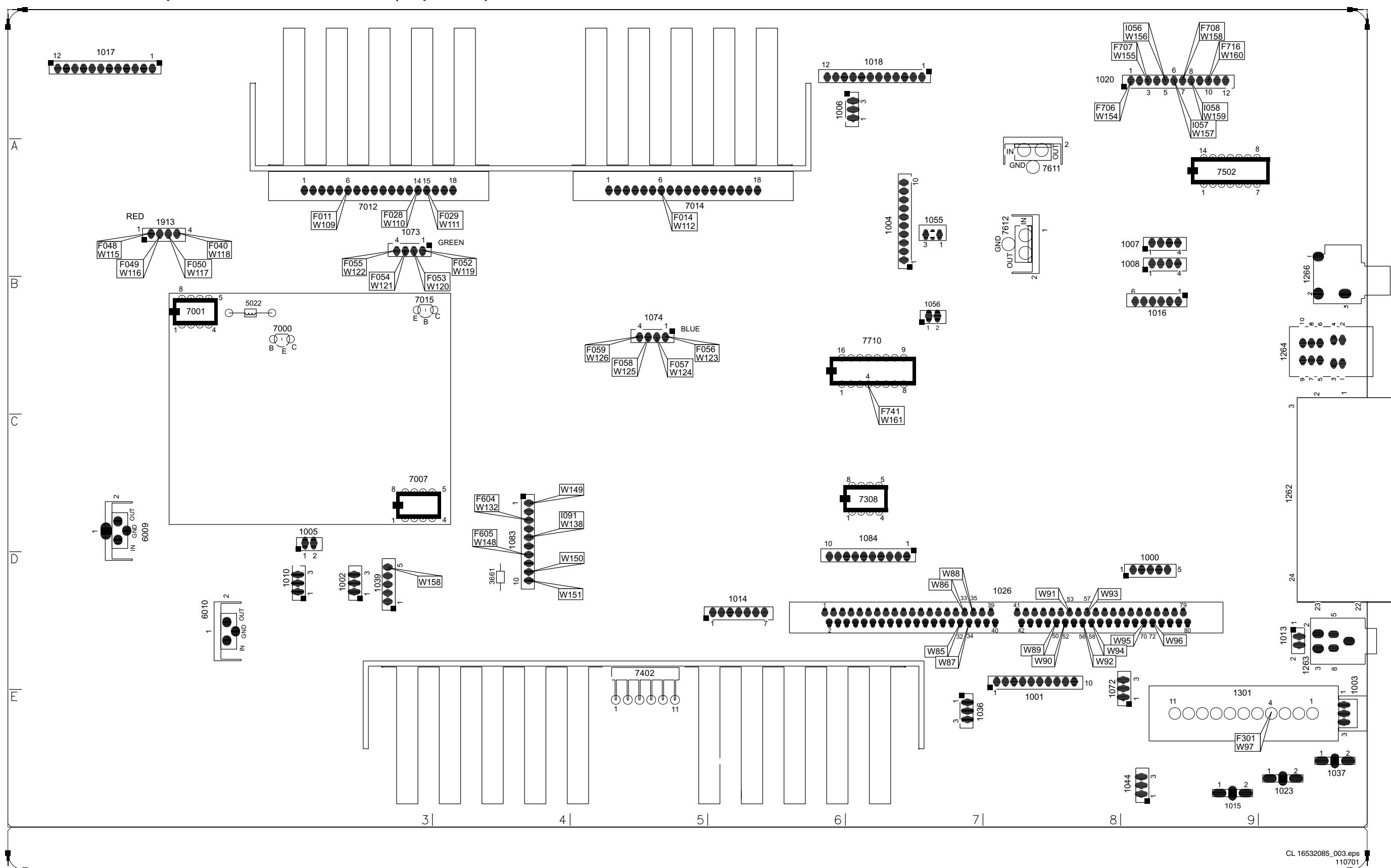
Large Signal Panel testpoint overview (top side)**LSB Panel Component Location Diagram (Top Side)**

Large Signal Panel testpoint overview (bottom side)

LSB Panel Component Location Diagram (Bottom Side)

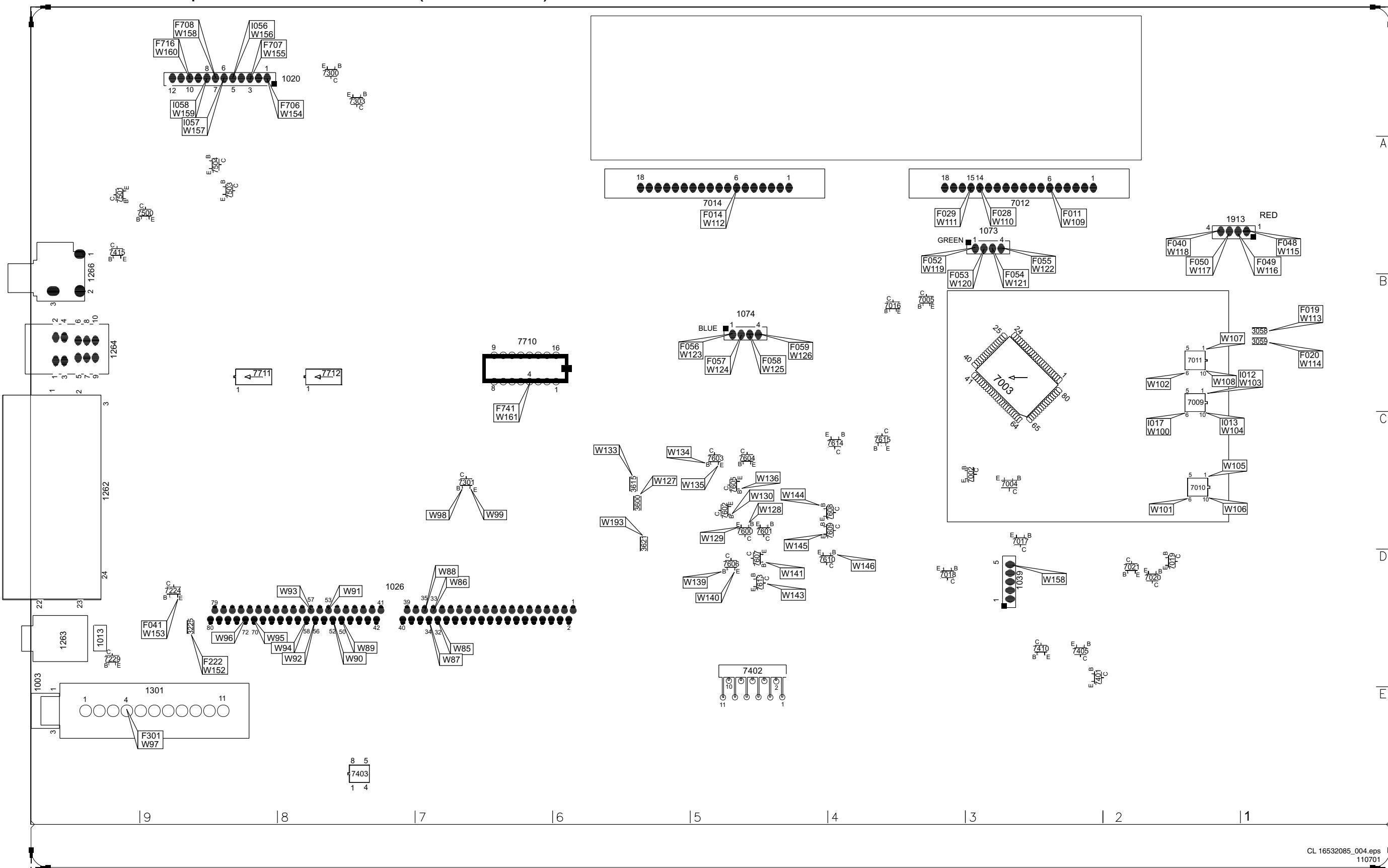


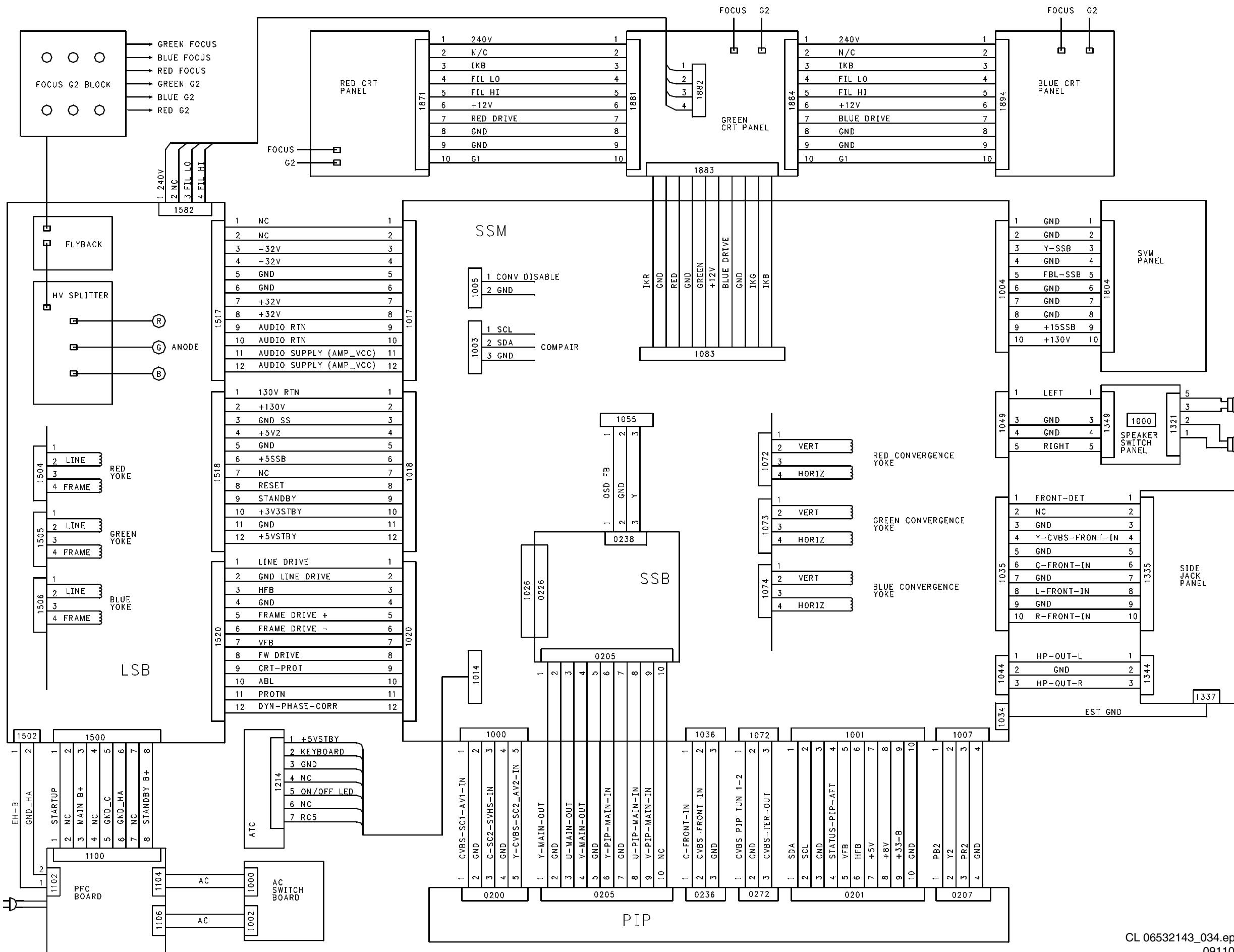
Large Signal Panel Waveform Overview**Small Signal Panel waveform overview**

Small Signal Panel testpoint overview (top side)**SSM Panel Component Location Guide (Top Side)**

Small Signal Panel Testpoint Overview (Bottom Side)

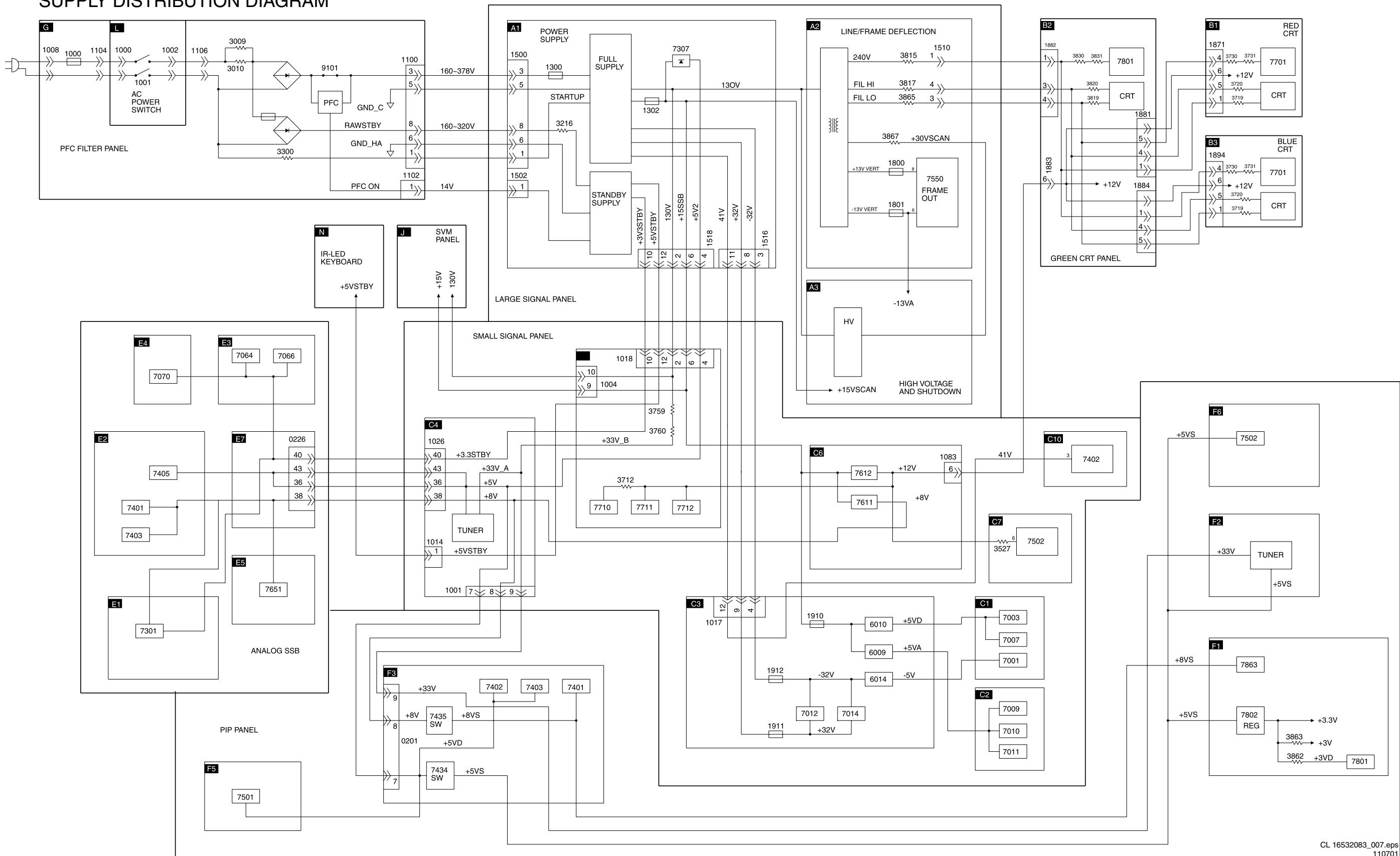
SSM Panel Component Location Guide (Bottom Side)



Wiring diagram

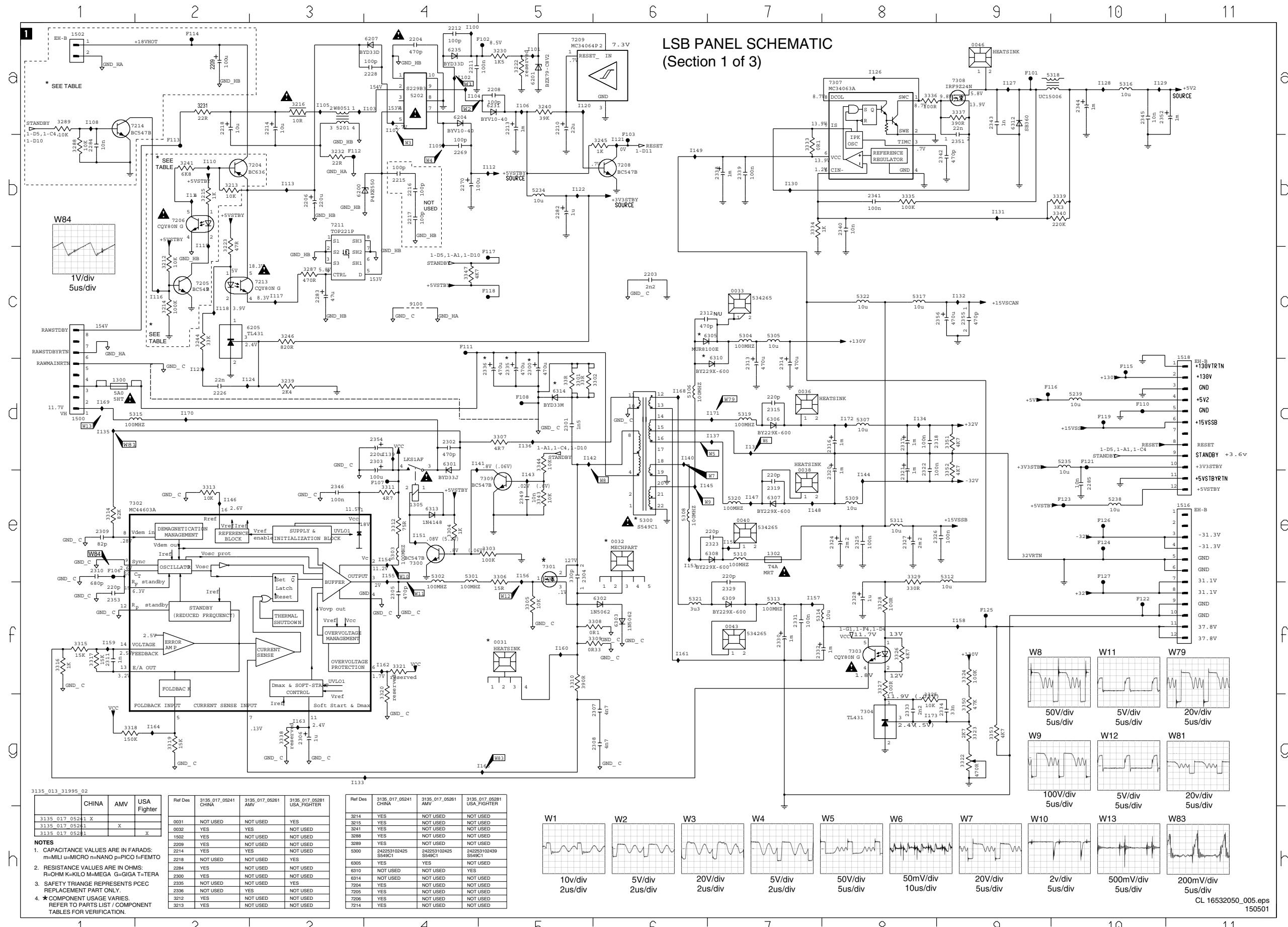
Supply Distribution Diagram

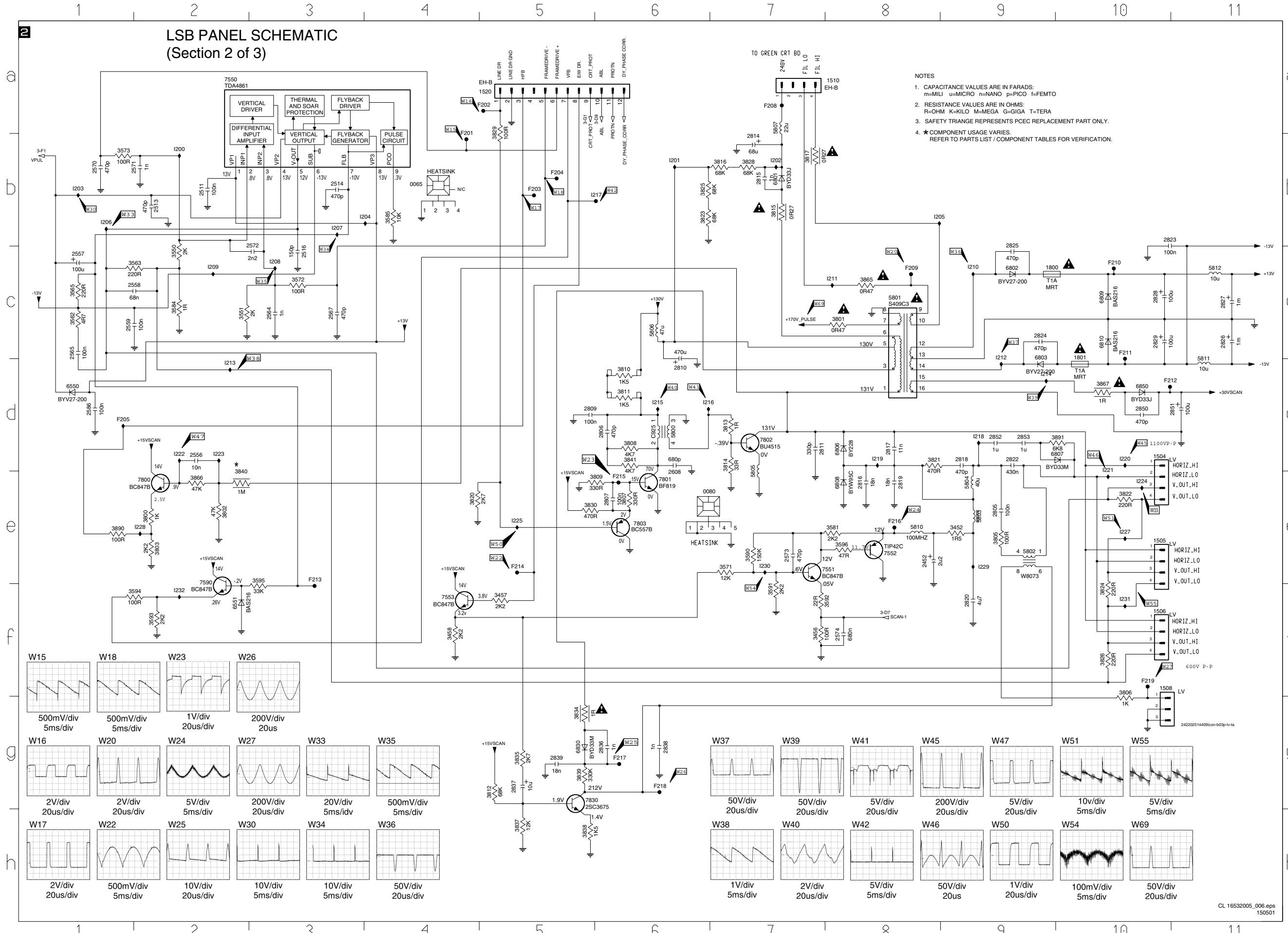
SUPPLY DISTRIBUTION DIAGRAM



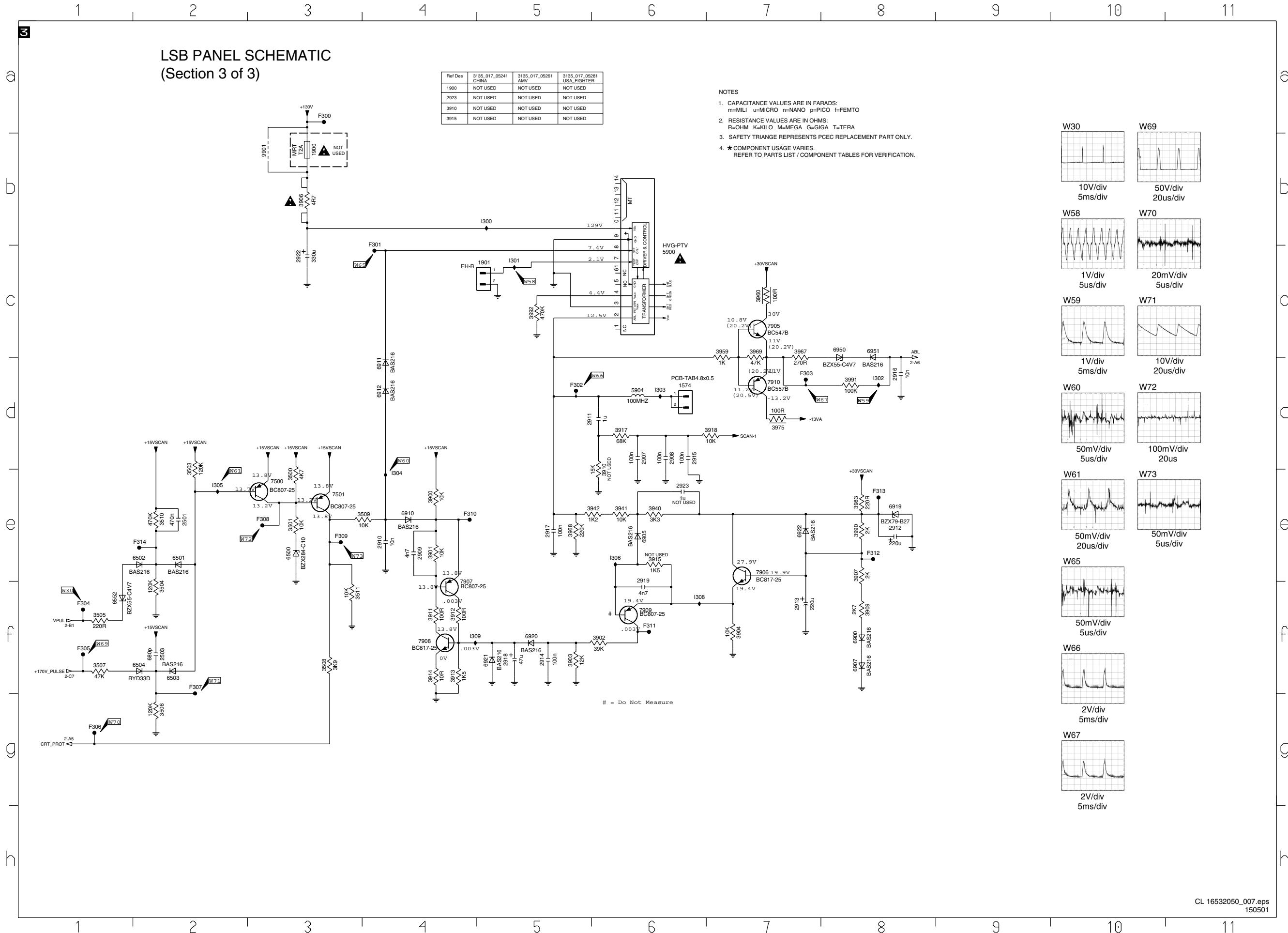
7. Circuit Diagrams and PWB's

Large Signal Panel



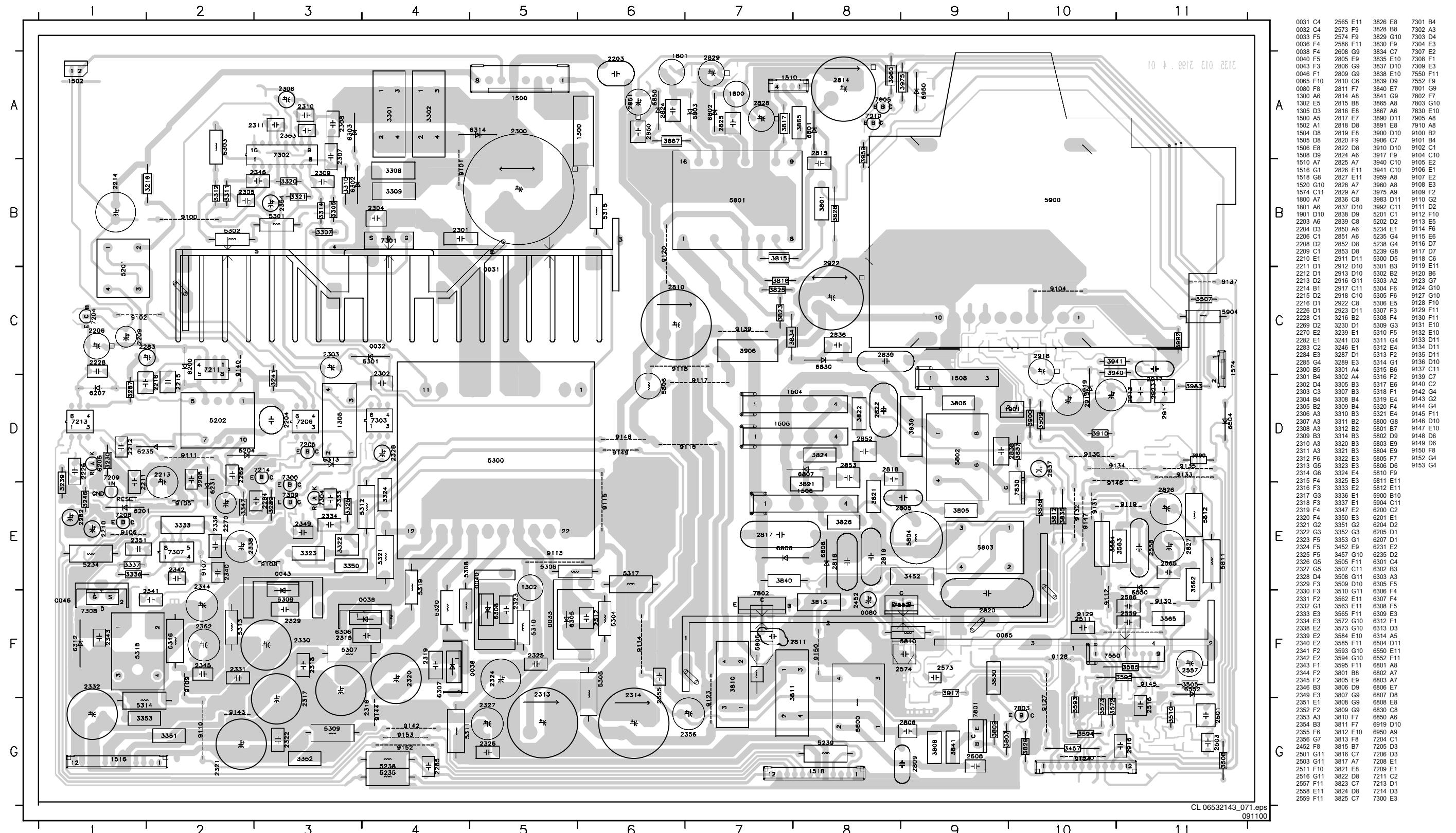
Large Signal Panel

Large Signal Panel

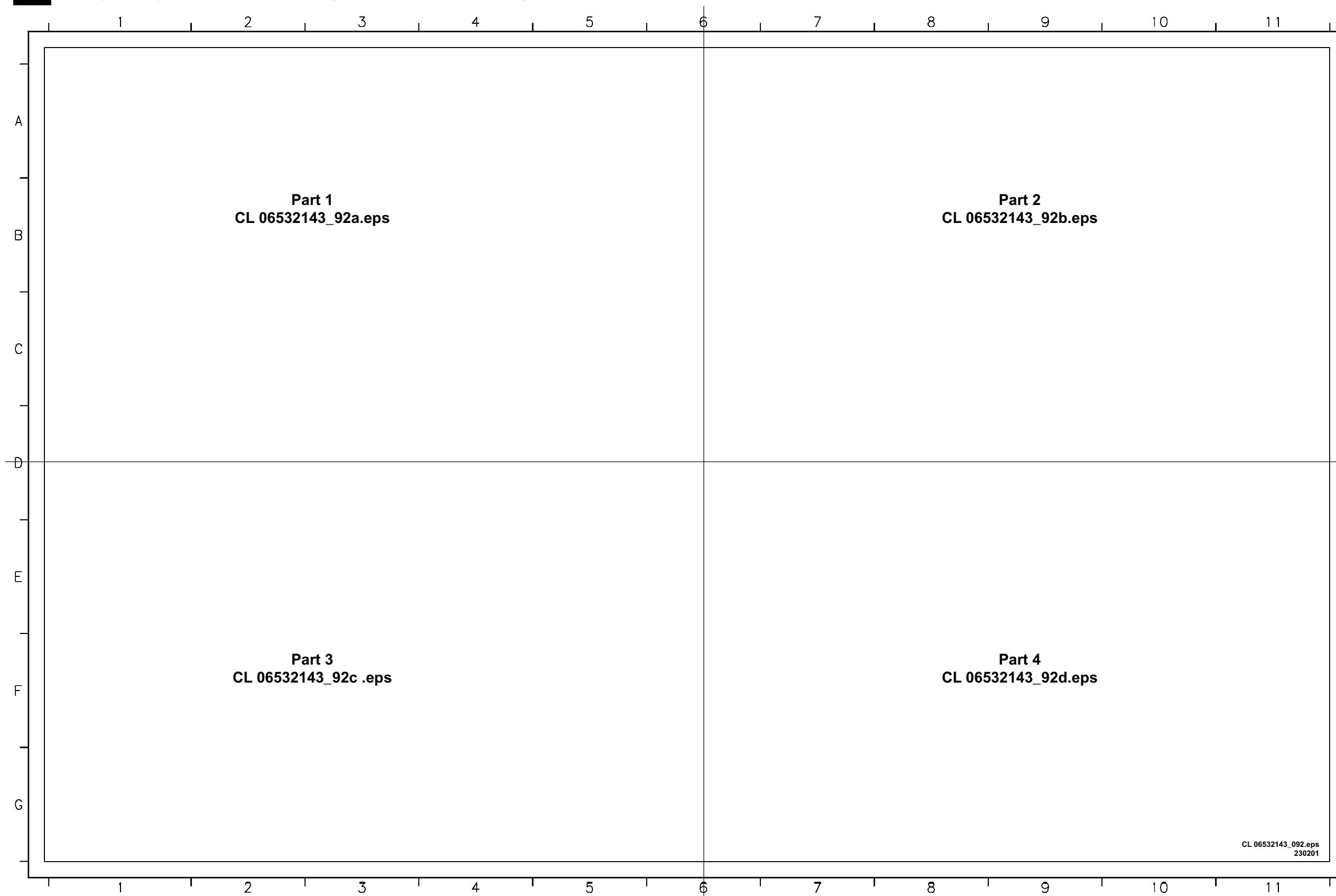


Layout Large Signal Panel (Top View)

A Large Signal Panel CBA (Top View)

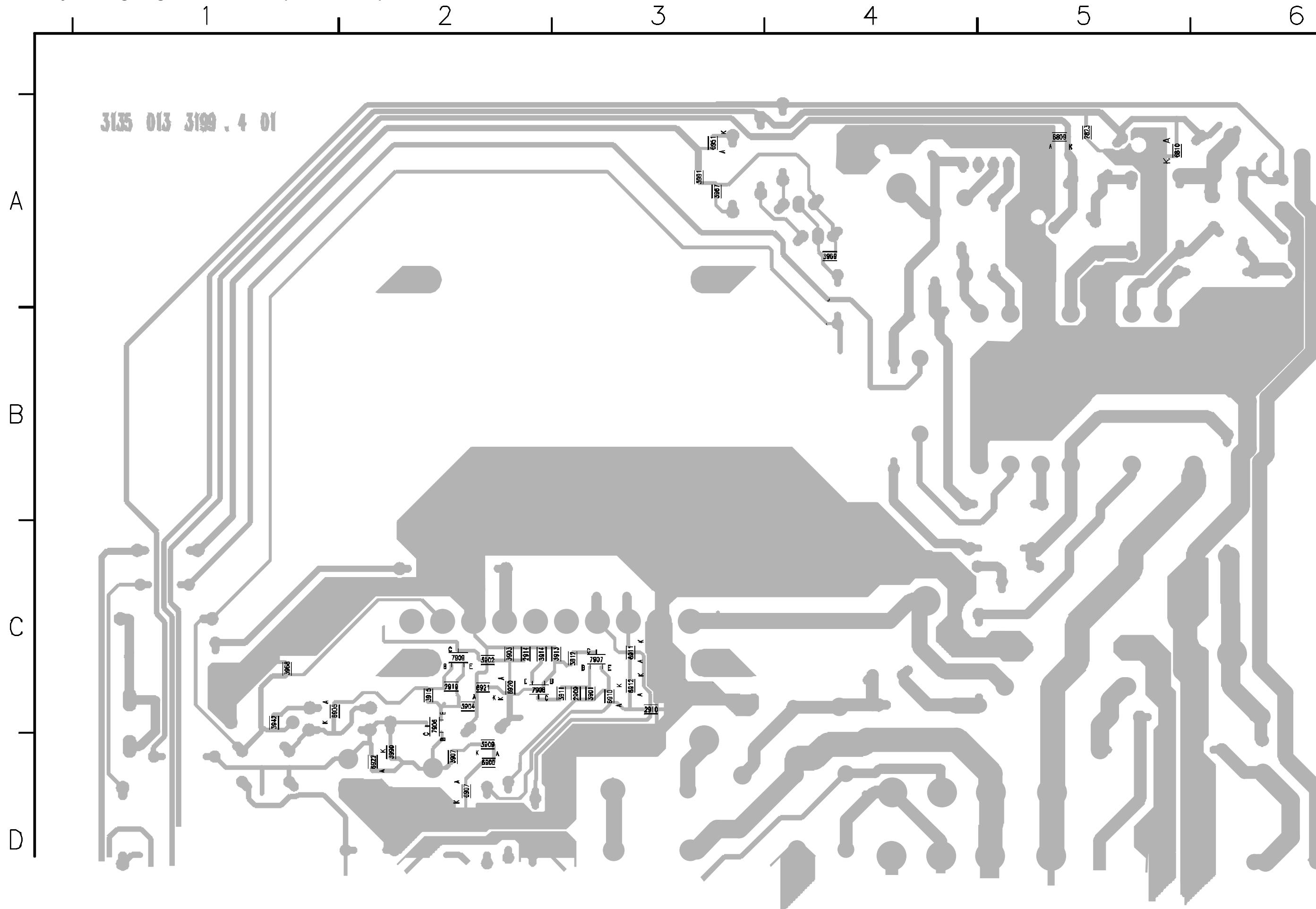


Layout Large Signal Panel Overview (Bottom View)

A Large Signal Panel CBA (Bottom overview)

2513 G1	3969 A4
2514 G1	3990 D2
2556 D1	3991 A3
2564 F1	6500 G1
2567 G2	6501 G1
2570 G2	6502 F1
2571 F2	6503 G1
2572 F2	6551 F2
2807 G3	6809 A5
2823 A5	6810 A5
2907 G3	6900 D2
2908 G3	6905 C1
2909 C3	6907 D2
2910 C3	6910 C3
2914 C2	6911 C3
2915 G3	6912 C3
2919 C2	6920 C2
3212 D9	6921 C2
3213 C11	6922 D2
3214 D9	6951 A3
3215 D9	7500 G1
3222 E11	7501 G1
3223 D11	7551 F3
3240 E11	7553 F3
3244 D11	7590 F2
3245 E11	7800 D1
3288 E9	7906 C2
3303 D9	7907 C3
3304 D9	7908 C2
3306 B9	7909 C2
3313 A9	
3315 A9	
3316 A9	
3317 A9	
3318 B9	
3319 A9	
3326 D8	
3327 D8	
3328 D8	
3329 D8	
3334 E10	
3335 E11	
3338 A9	
3339 F10	
3340 F10	
3343 E9	
3344 E9	
3456 F3	
3458 F3	
3500 G1	
3501 G1	
3503 G1	
3504 G1	
3506 G1	
3511 G1	
3550 F2	
3551 F1	
3571 F3	
3581 F3	
3590 F3	
3591 F3	
3592 F3	
3596 F3	
3800 D1	
3802 E4	
3803 D1	
3814 F5	
3820 G2	
3866 D1	
3901 C3	
3902 C2	
3903 C2	
3904 C2	
3907 D2	
3909 D2	
3911 C3	
3912 C3	
3913 C3	
3914 C2	
3915 C2	
3918 F3	
3942 C1	
3967 A3	
3968 C1	

Layout Large Signal Panel Part 1 (Bottom View)



Layout Large Signal Panel Part 2 (Bottom View)

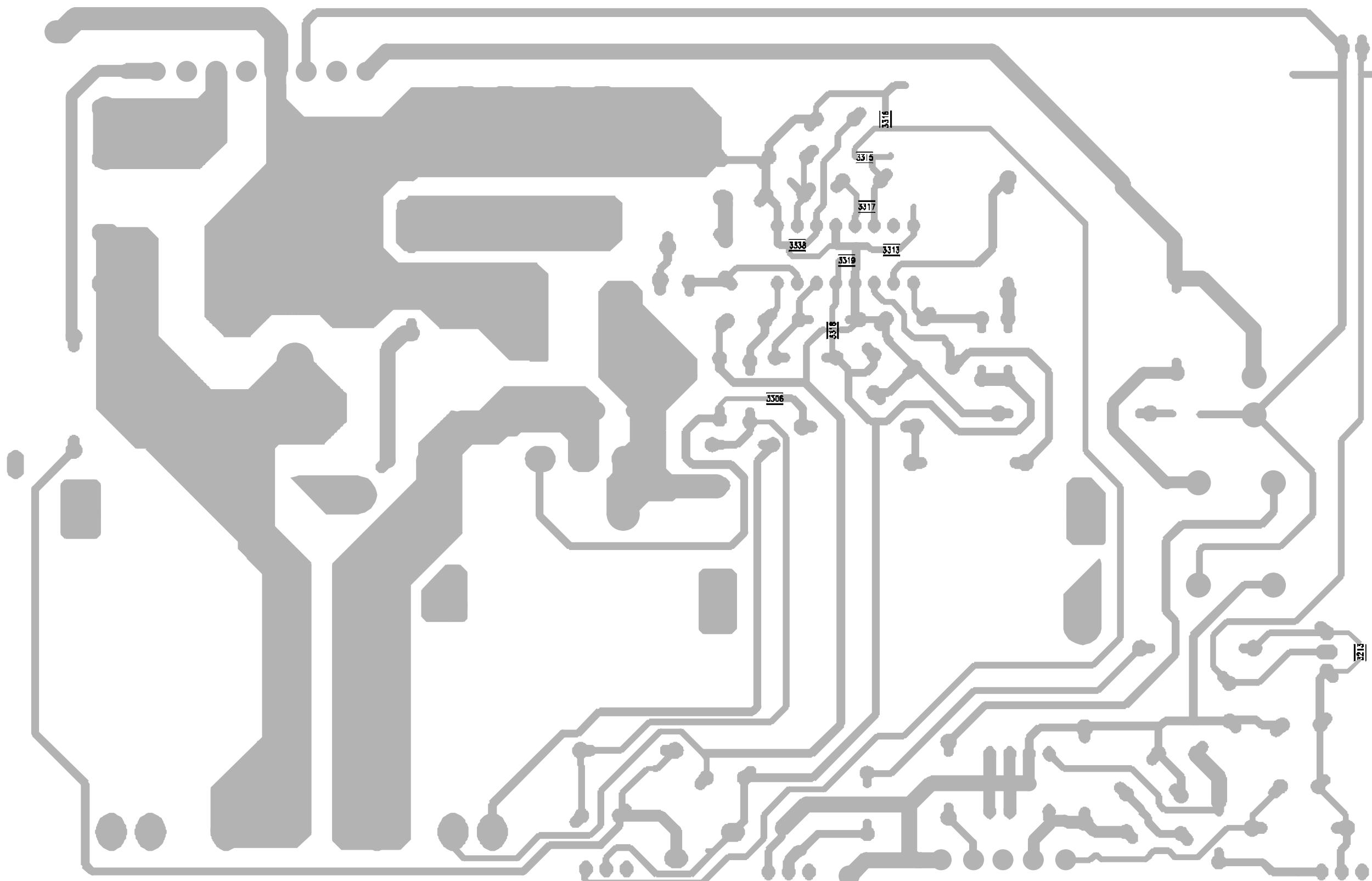
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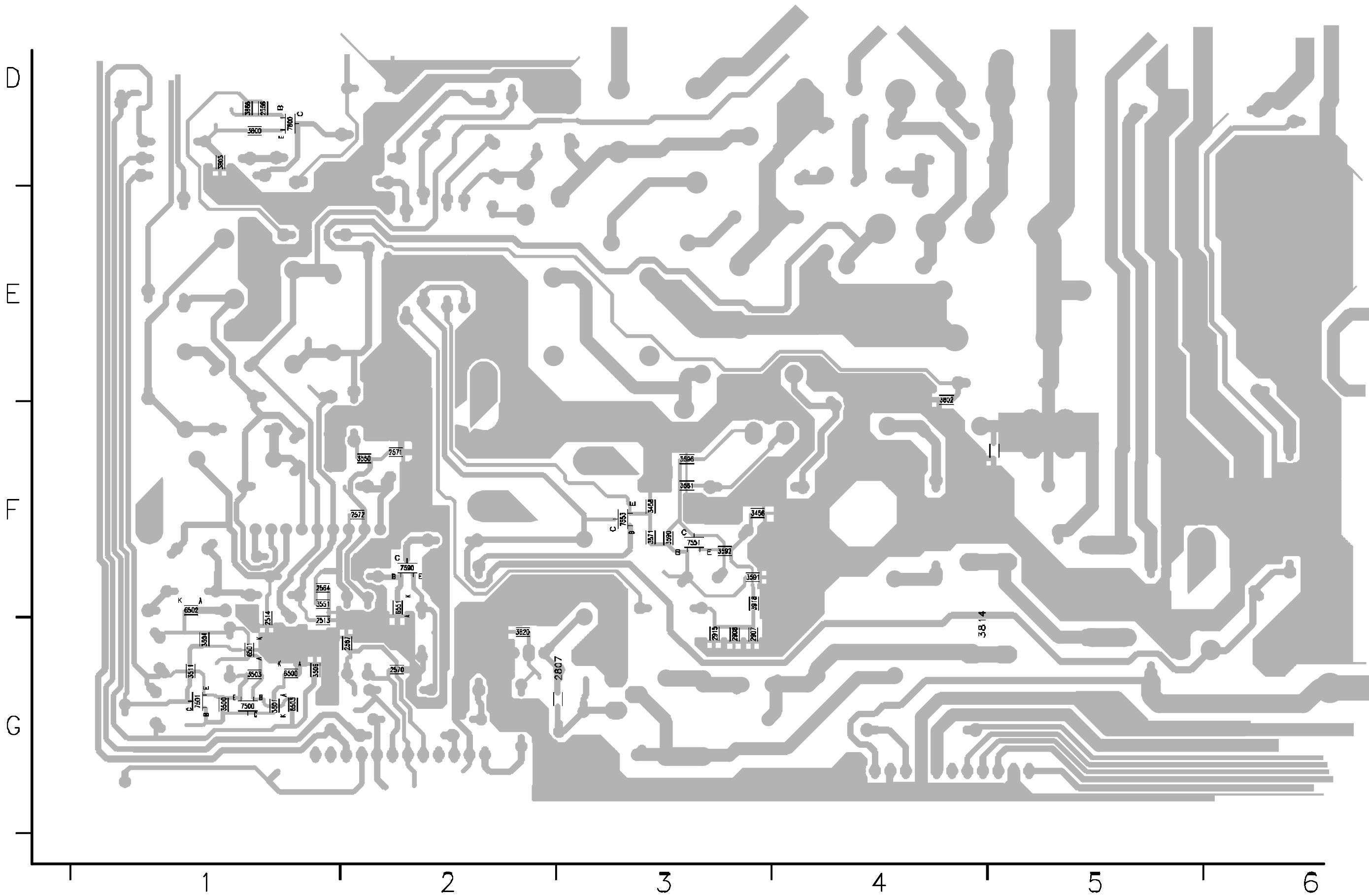
A

B

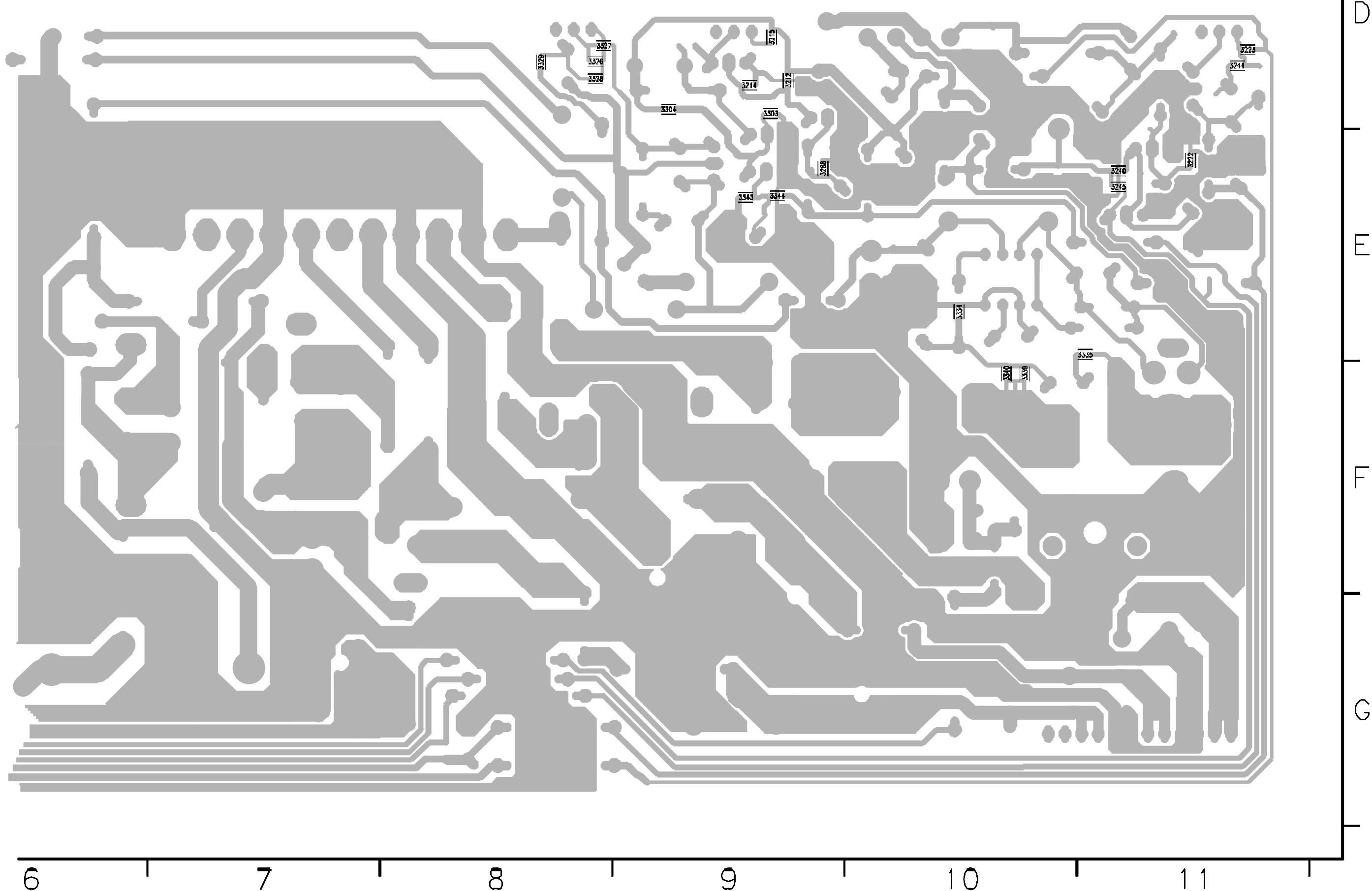
C

D

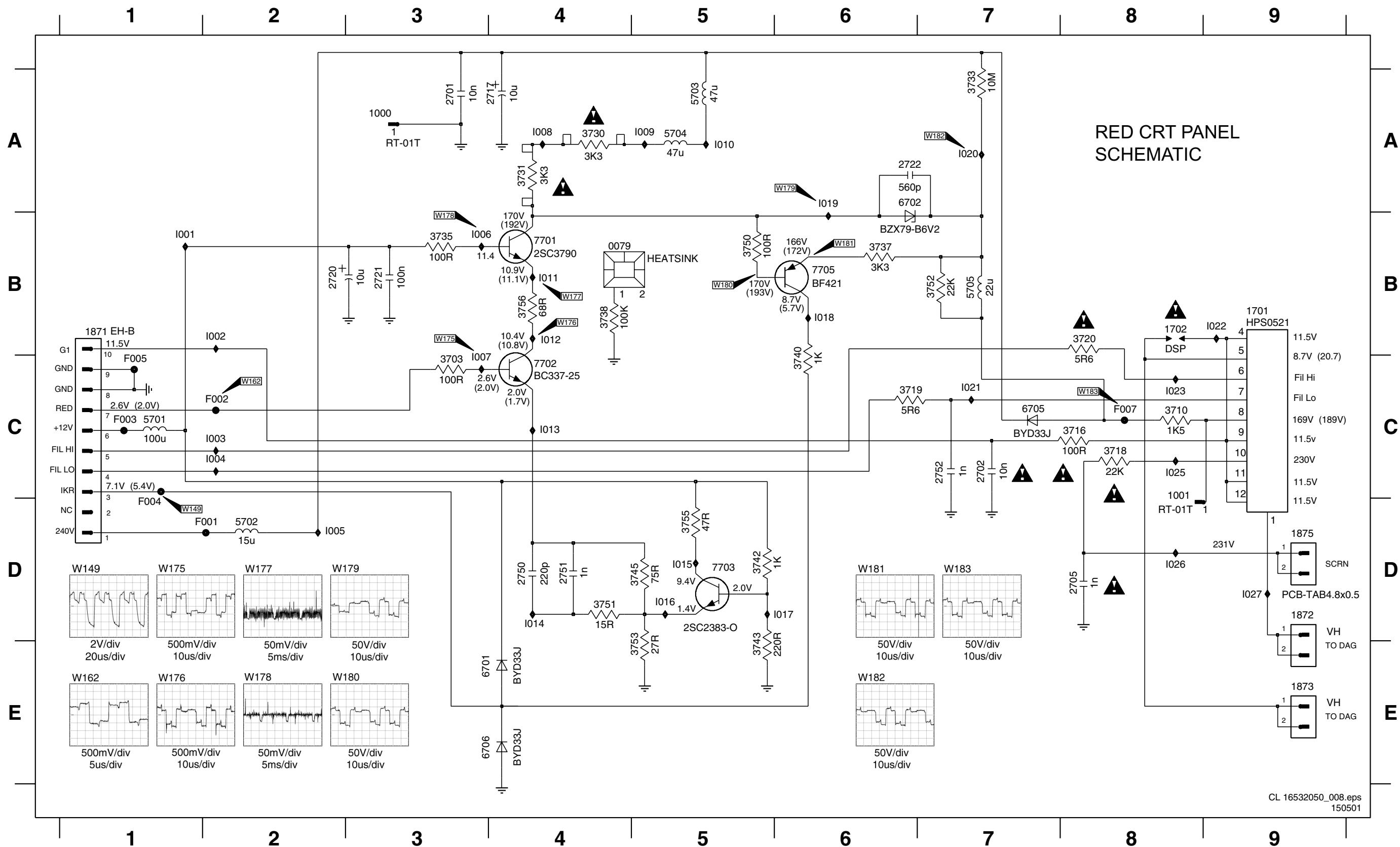
Layout Large Signal Panel Part 3 (Bottom View)



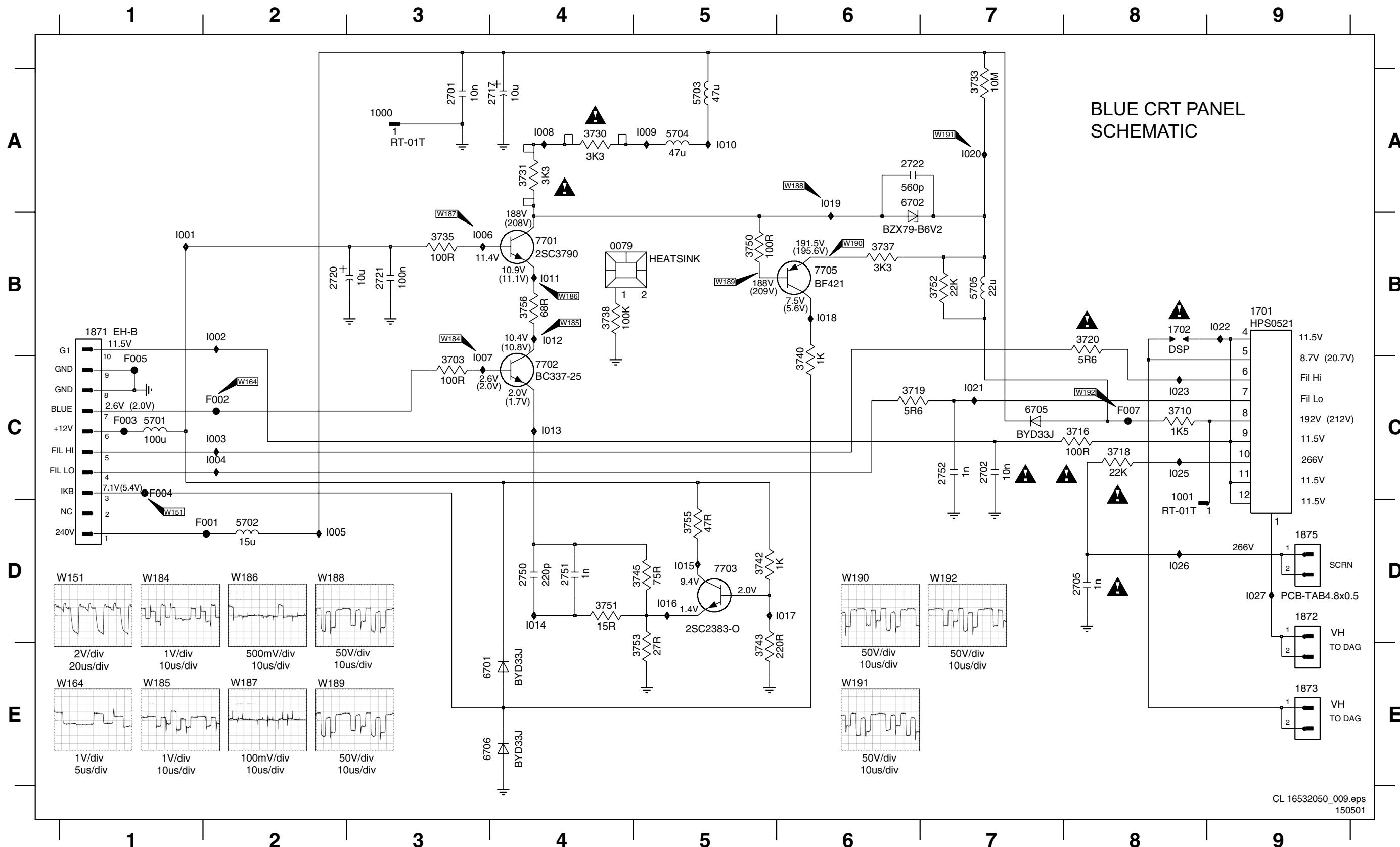
Layout Large Signal Panel Part 4 (Bottom View)



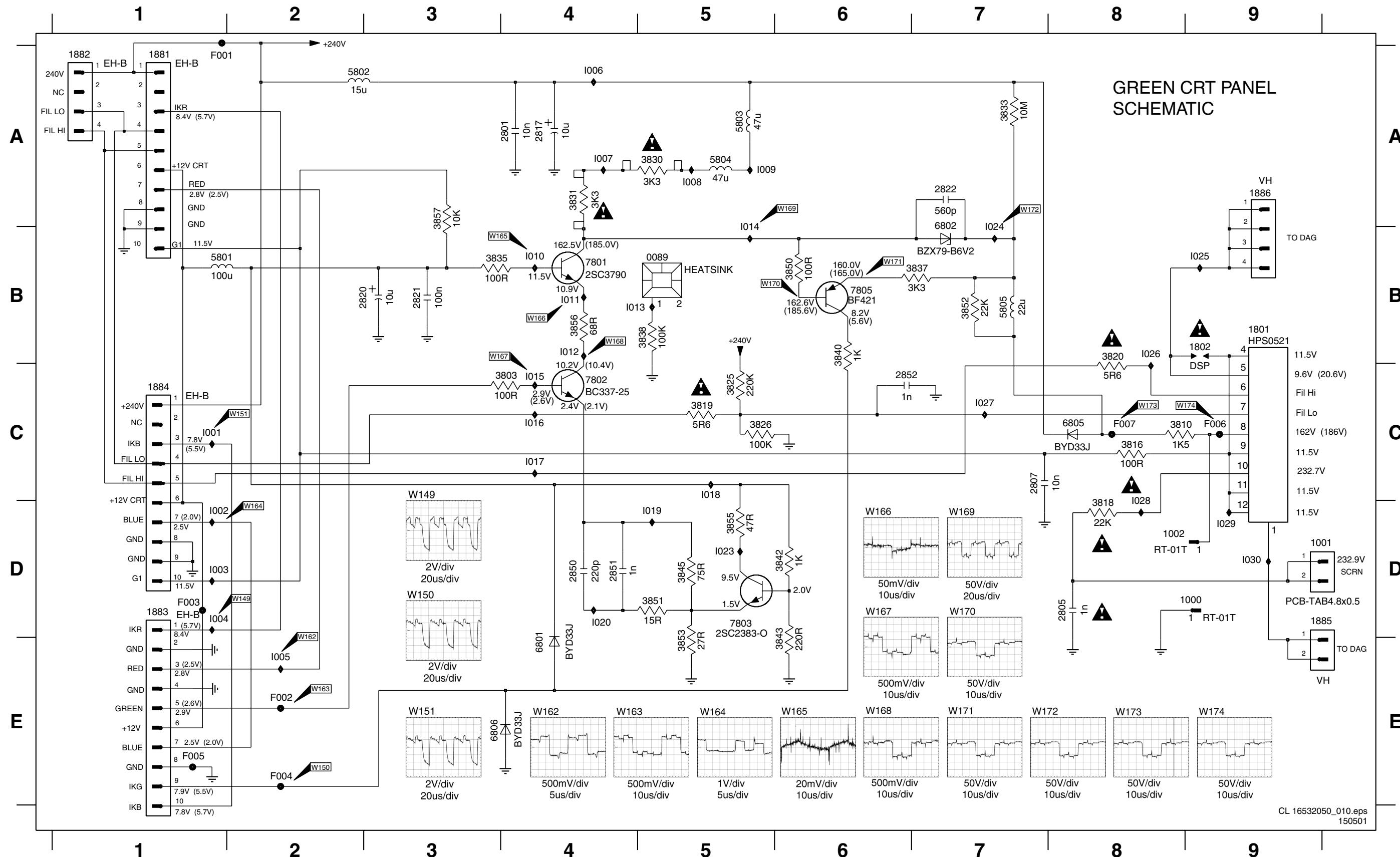
CRT Panel Red



CRT Panel Blue

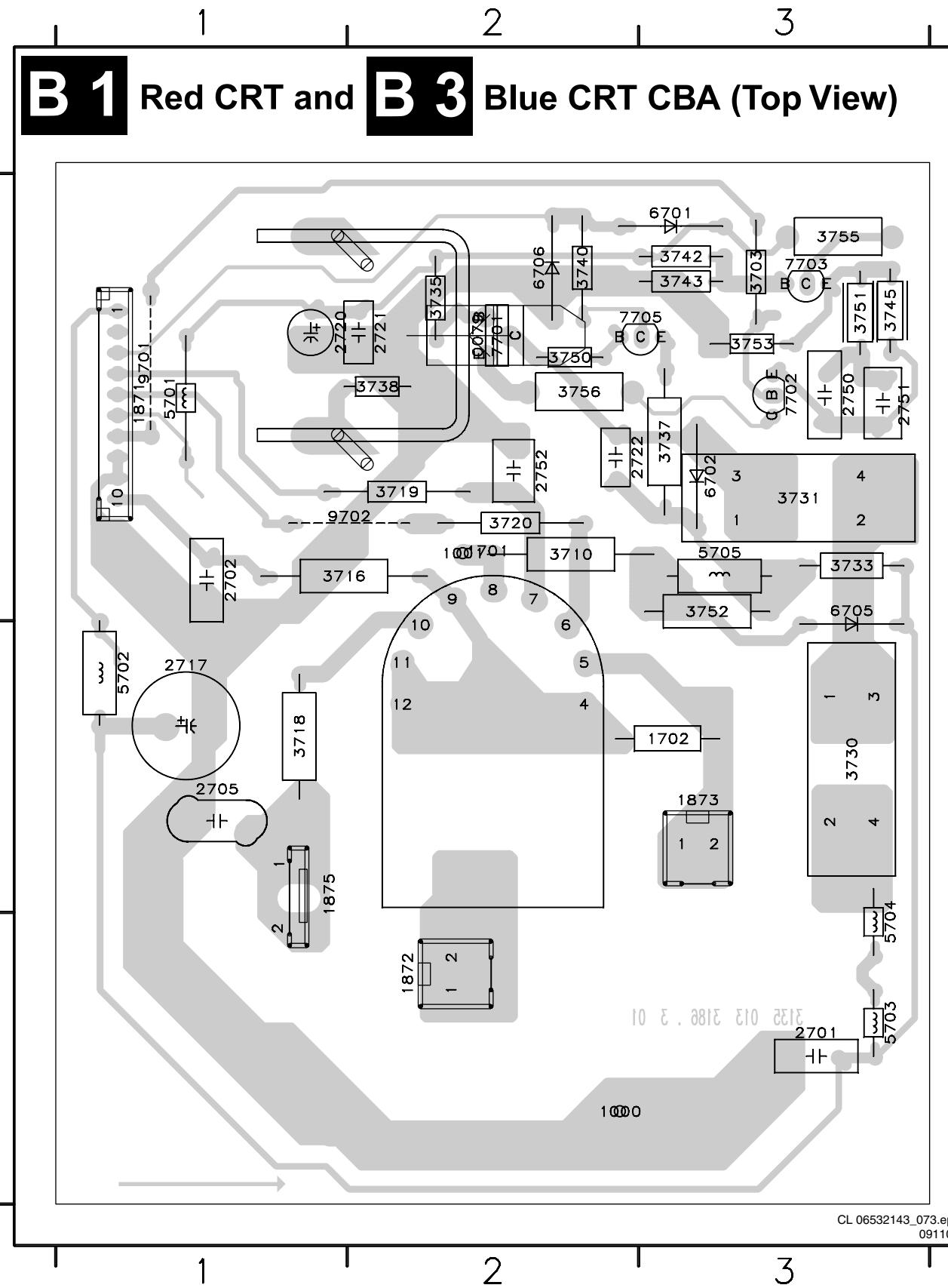


CRT Panel Green



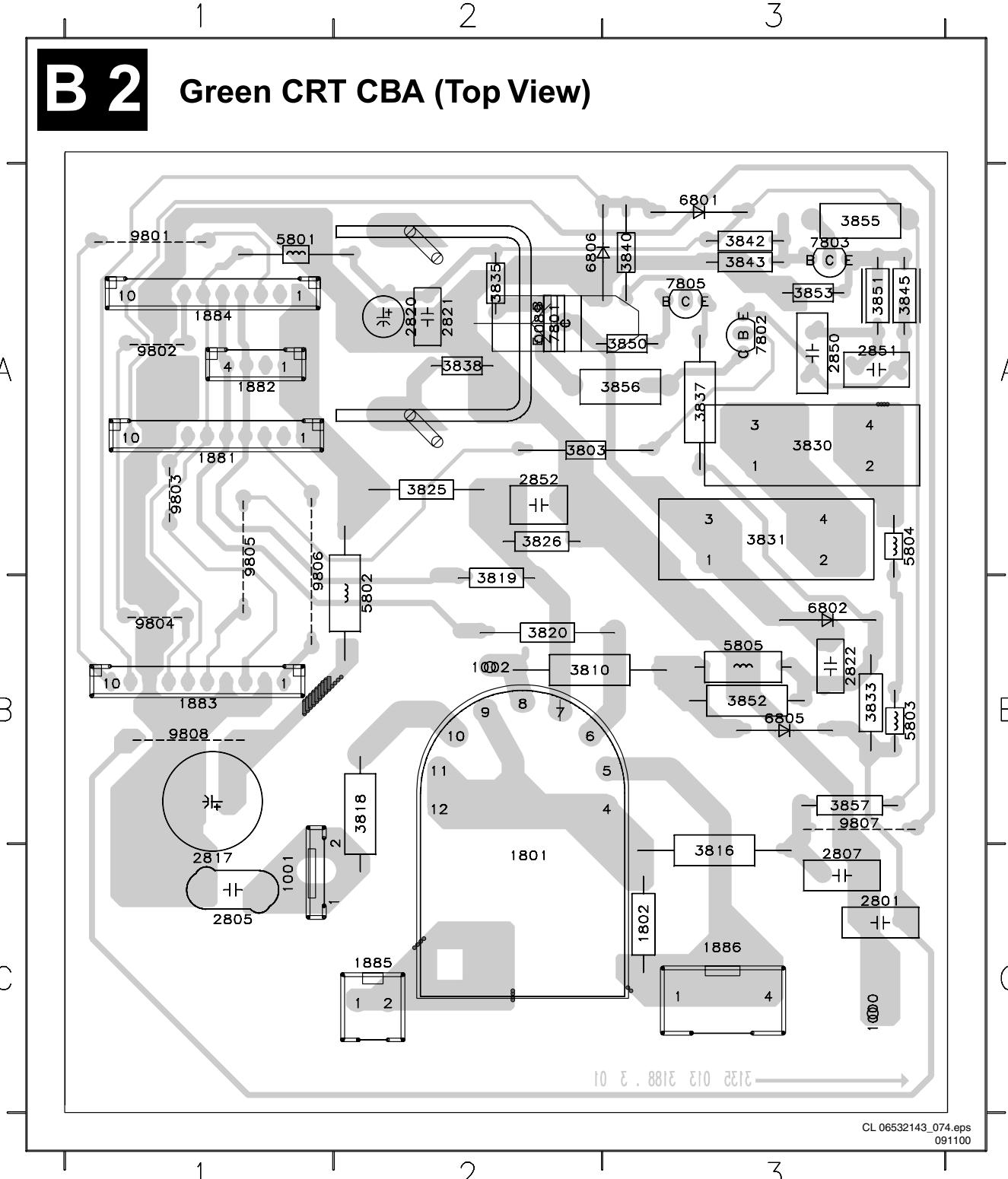
Layout CRT Panel Red and Blue

0079	A2	1873	B3	2721	A2	3716	A1	3735	A2	3750	A2	5702	B1	6706
1000	C2	1875	B1	2722	A2	3718	B1	3737	A3	3751	A3	5703	C3	7701
1001	A2	2701	C3	2750	A3	3719	A2	3738	A2	3752	A3	5704	C3	7702
1701	B2	2702	A1	2751	A3	3720	A2	3740	A2	3753	A3	5705	A3	7703
1702	B3	2705	B1	2752	A2	3730	B3	3742	A3	3755	A3	6701	A3	7705
1871	A1	2717	B1	3703	A3	3731	A3	3743	A3	3756	A2	6702	A3	9701
1872	C2	2720	A1	3710	A2	3733	A3	3745	A3	5701	A1	6705	B3	9702

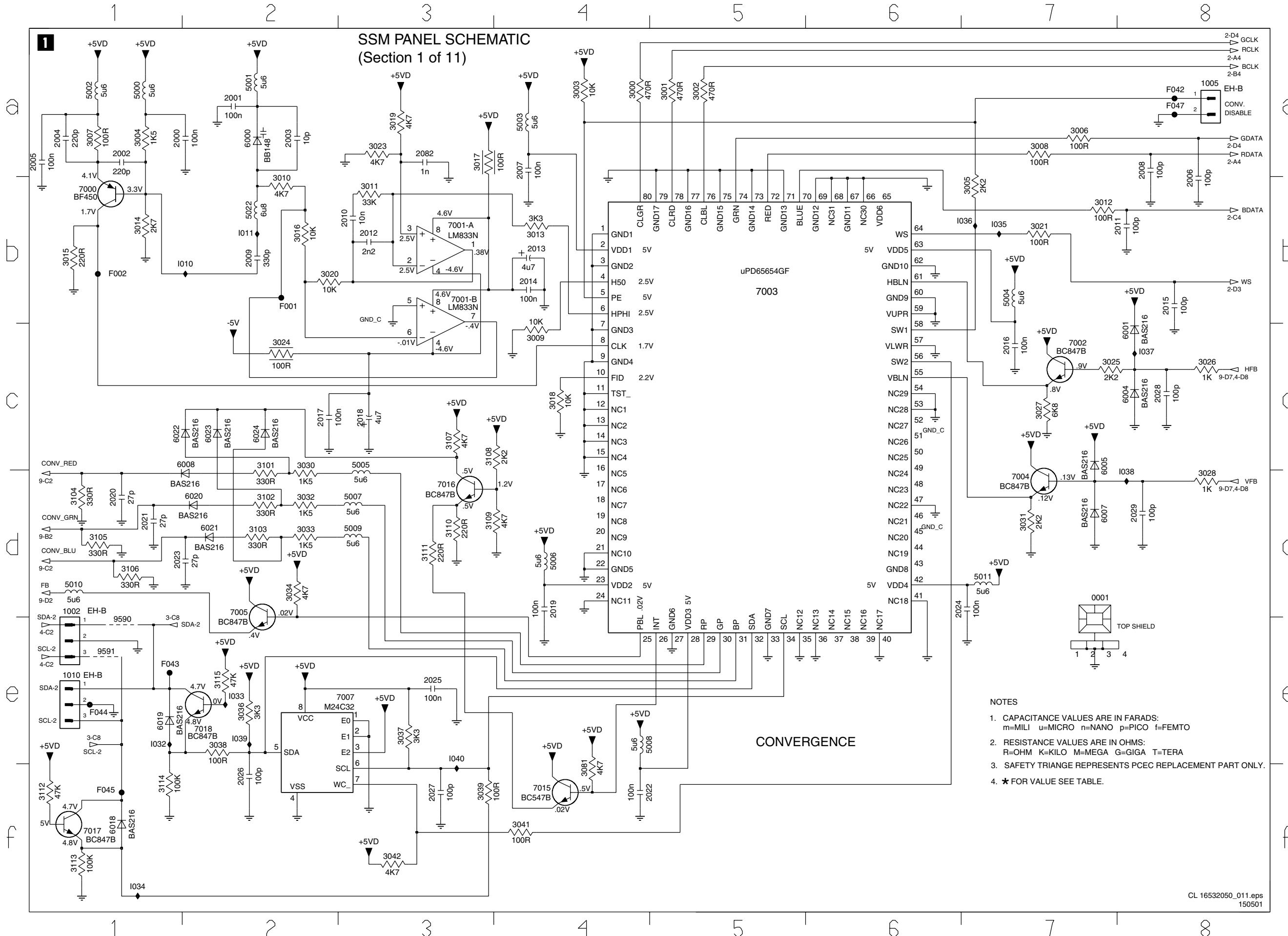


Layout CRT Panel Gree

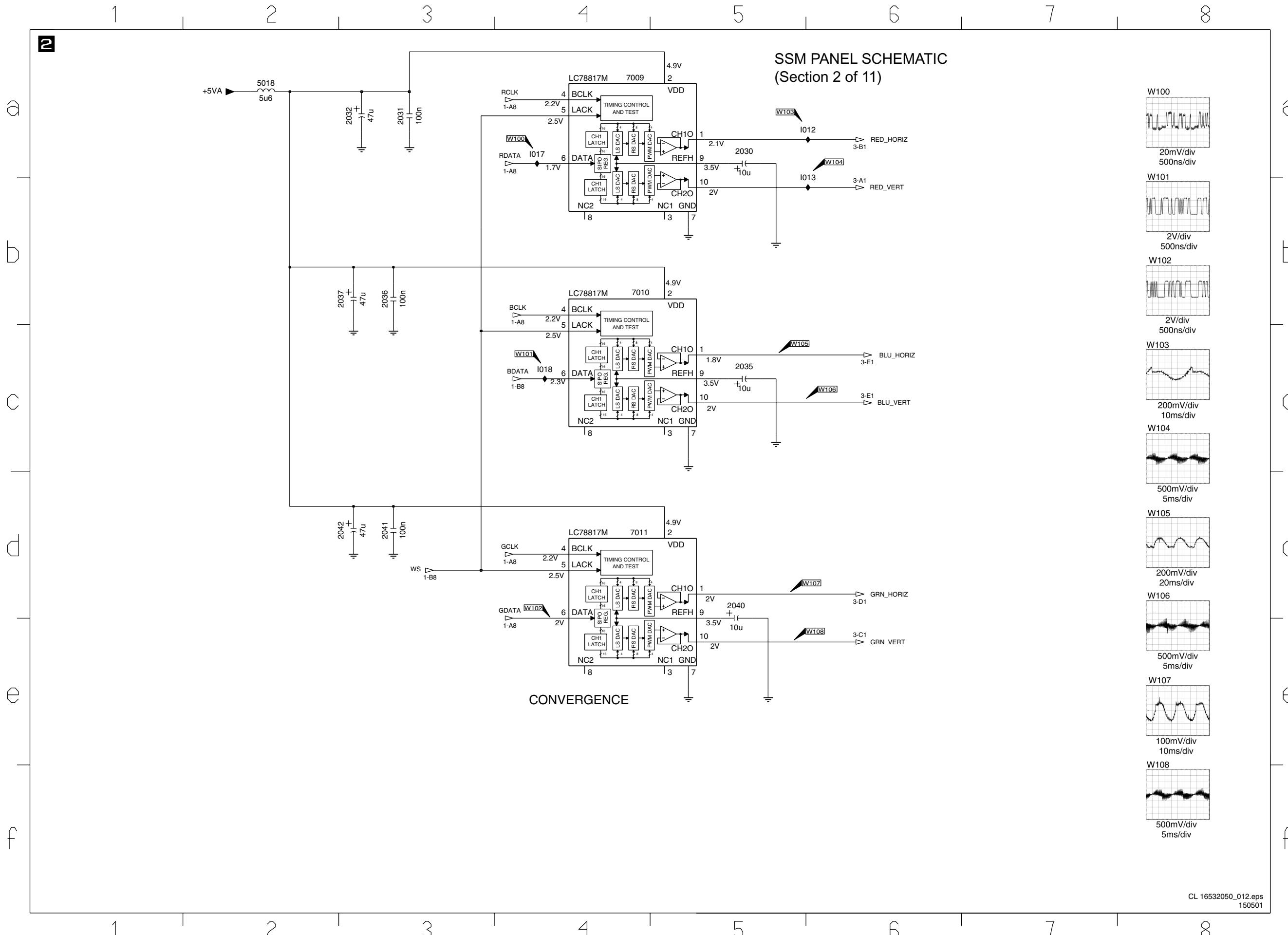
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1000	C3	1884	A1	2821	A2	3818	B2	3835	A2	3851	A3	5803	B3	7802	A3	9806	A1
1001	C1	1885	C2	2822	B3	3819	B2	3837	A3	3852	B3	5804	A3	7803	A3	9807	B3
1002	B2	1886	C3	2850	A3	3820	B2	3838	A2	3853	A3	5805	B3	7805	A3	9808	B1
1801	B2	2801	C3	2851	A3	3825	A2	3840	A3	3855	A3	6801	A3	9801	A1		
1802	C3	2805	C1	2852	A2	3826	A2	3842	A3	3856	A3	6802	B3	9802	A1		
1881	A1	2807	C3	3803	A2	3830	A3	3843	A3	3857	B3	6805	B3	9803	A1		
1882	A1	2817	B1	3810	B2	3831	A3	3845	A3	5801	A1	6806	A3	9804	B1		



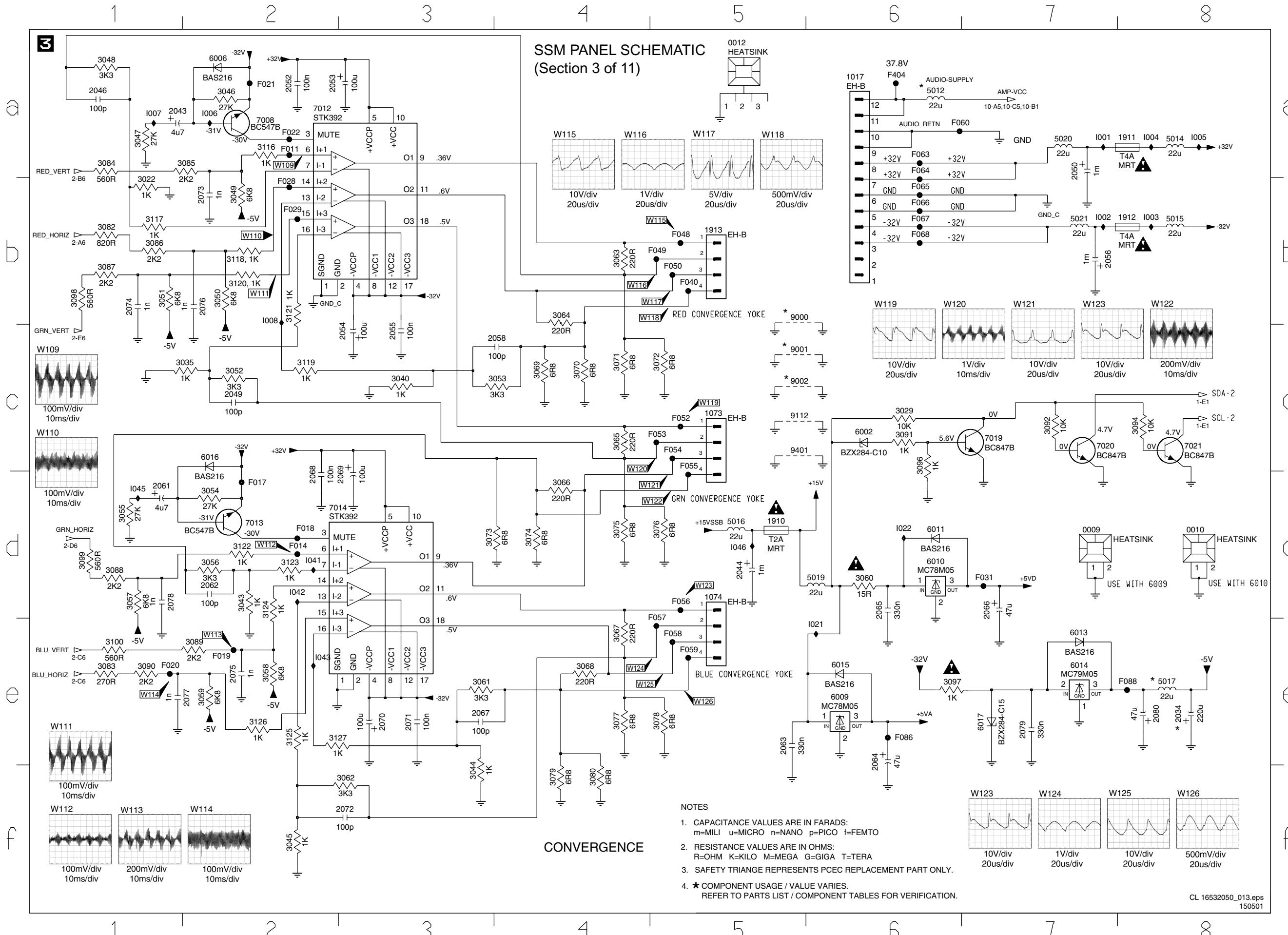
Small Signal Board



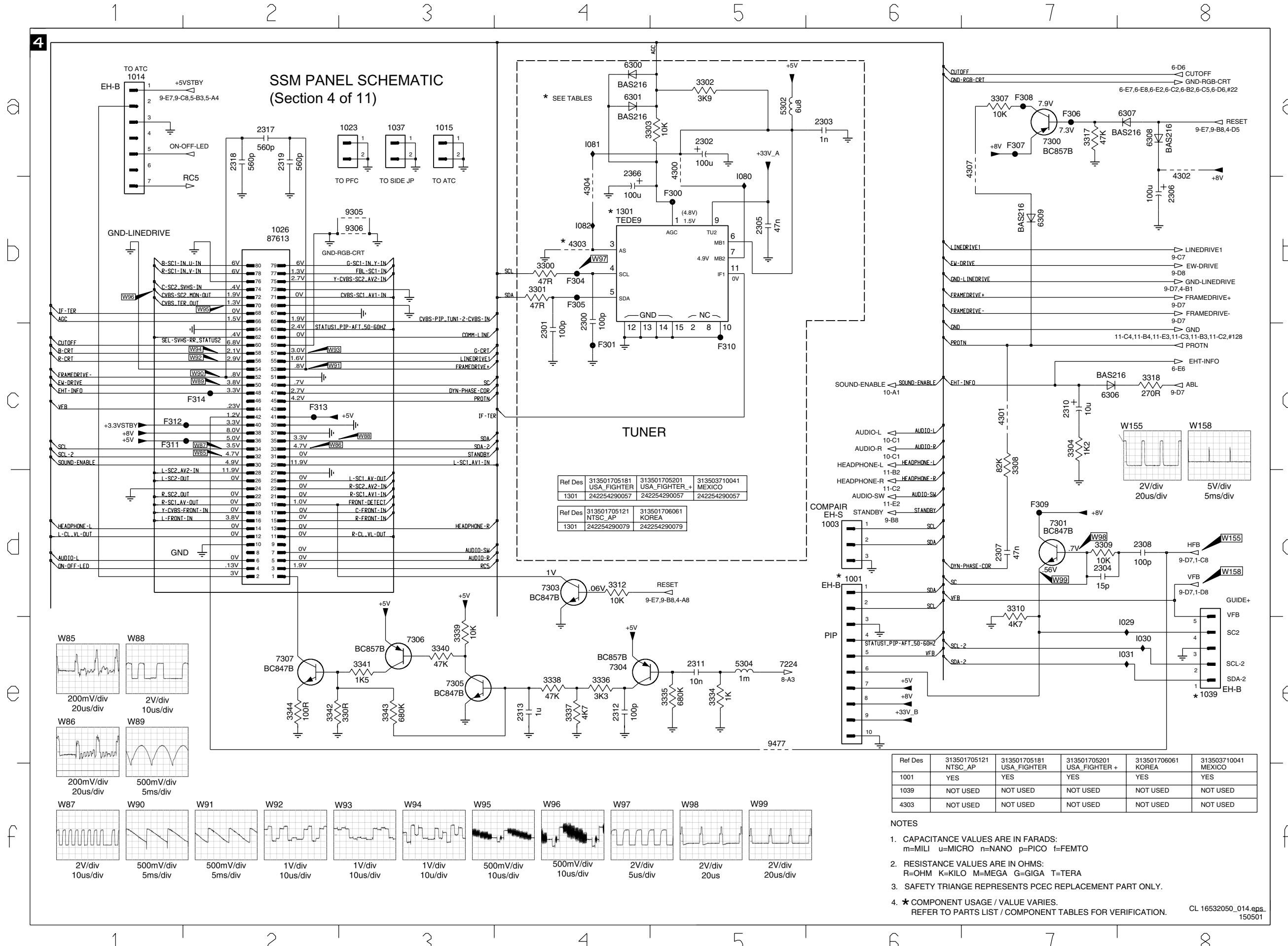
Small Signal Board



Small Signal Board



Small Signal Board



Small Signal Board

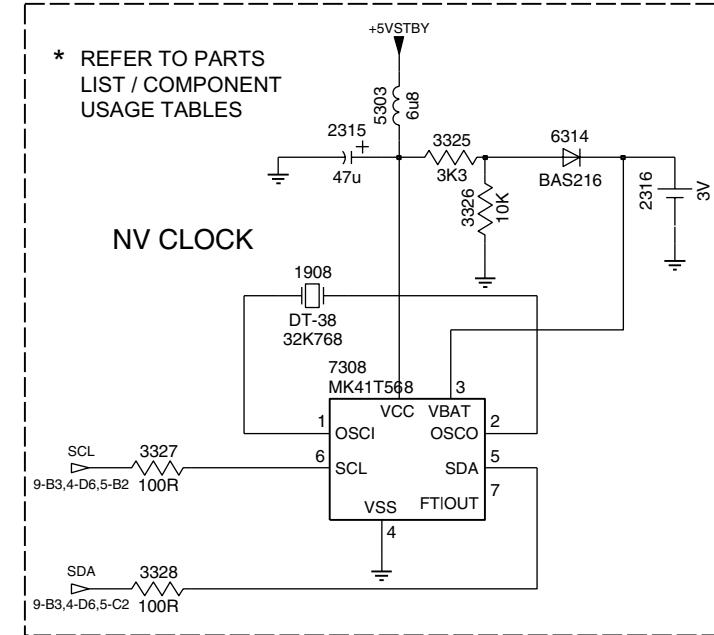
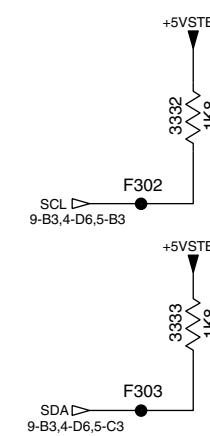
1

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5**SSM PANEL SCHEMATIC
(Section 5 of 11)**

Ref Des	313501705121 NTSC_AP	313501705181 USA_FIGHTER	313501705201 USA_FIGHTER_+	313501706061 KOREA	313503710041 MEXICO
1908	NOT USED	NOT USED	NOT USED	NOT USED	YES
2315	NOT USED	NOT USED	NOT USED	NOT USED	YES
2316	NOT USED	NOT USED	NOT USED	NOT USED	YES
3325	NOT USED	NOT USED	NOT USED	NOT USED	YES
3326	NOT USED	NOT USED	NOT USED	NOT USED	YES
3327	NOT USED	NOT USED	NOT USED	NOT USED	YES
3328	NOT USED	NOT USED	NOT USED	NOT USED	YES
5303	NOT USED	NOT USED	NOT USED	NOT USED	YES
6314	NOT USED	NOT USED	NOT USED	NOT USED	YES
7308	NOT USED	NOT USED	NOT USED	NOT USED	YES

CL 16532050_015.eps
150501

1

2

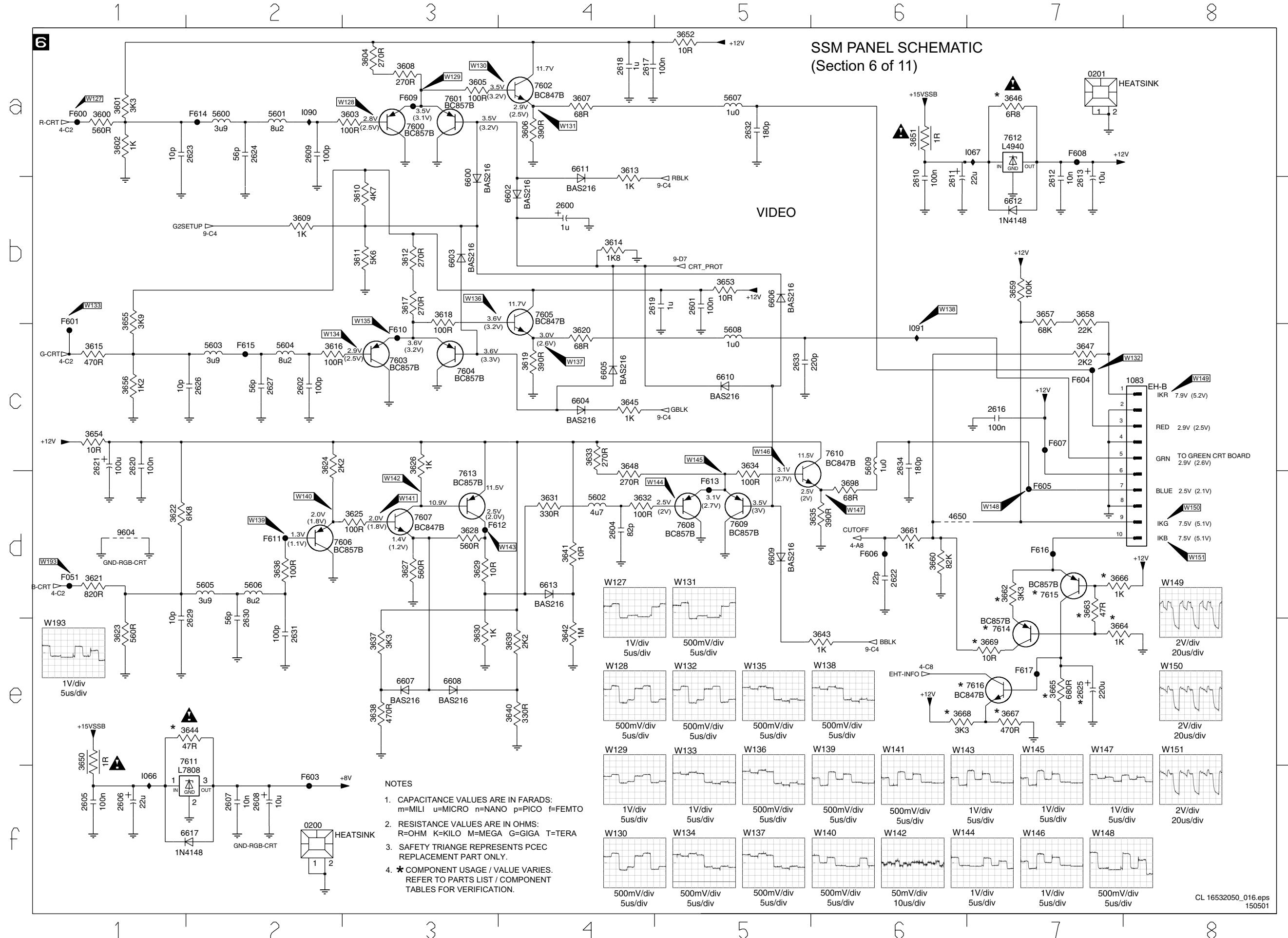
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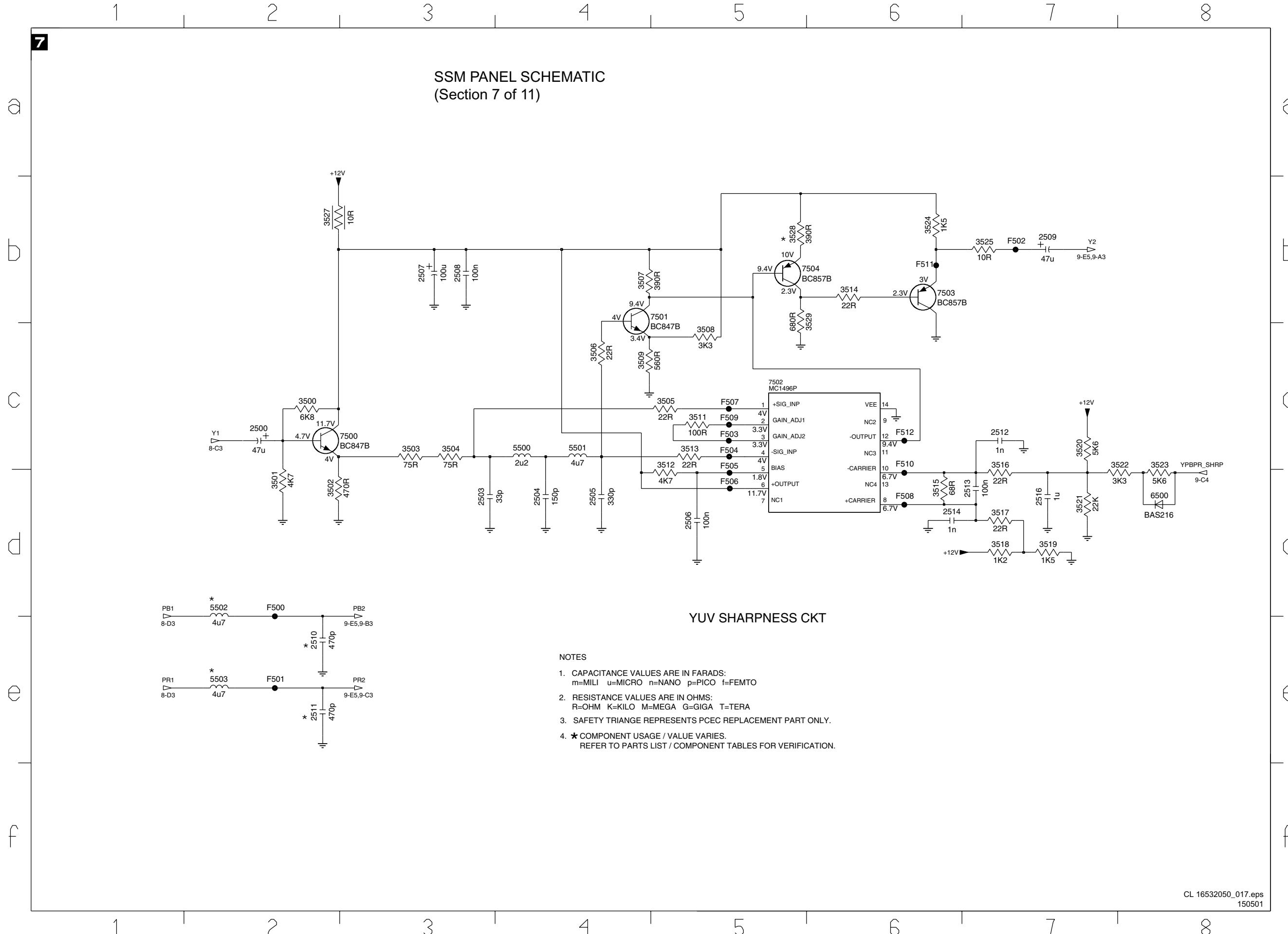
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Small Signal Board

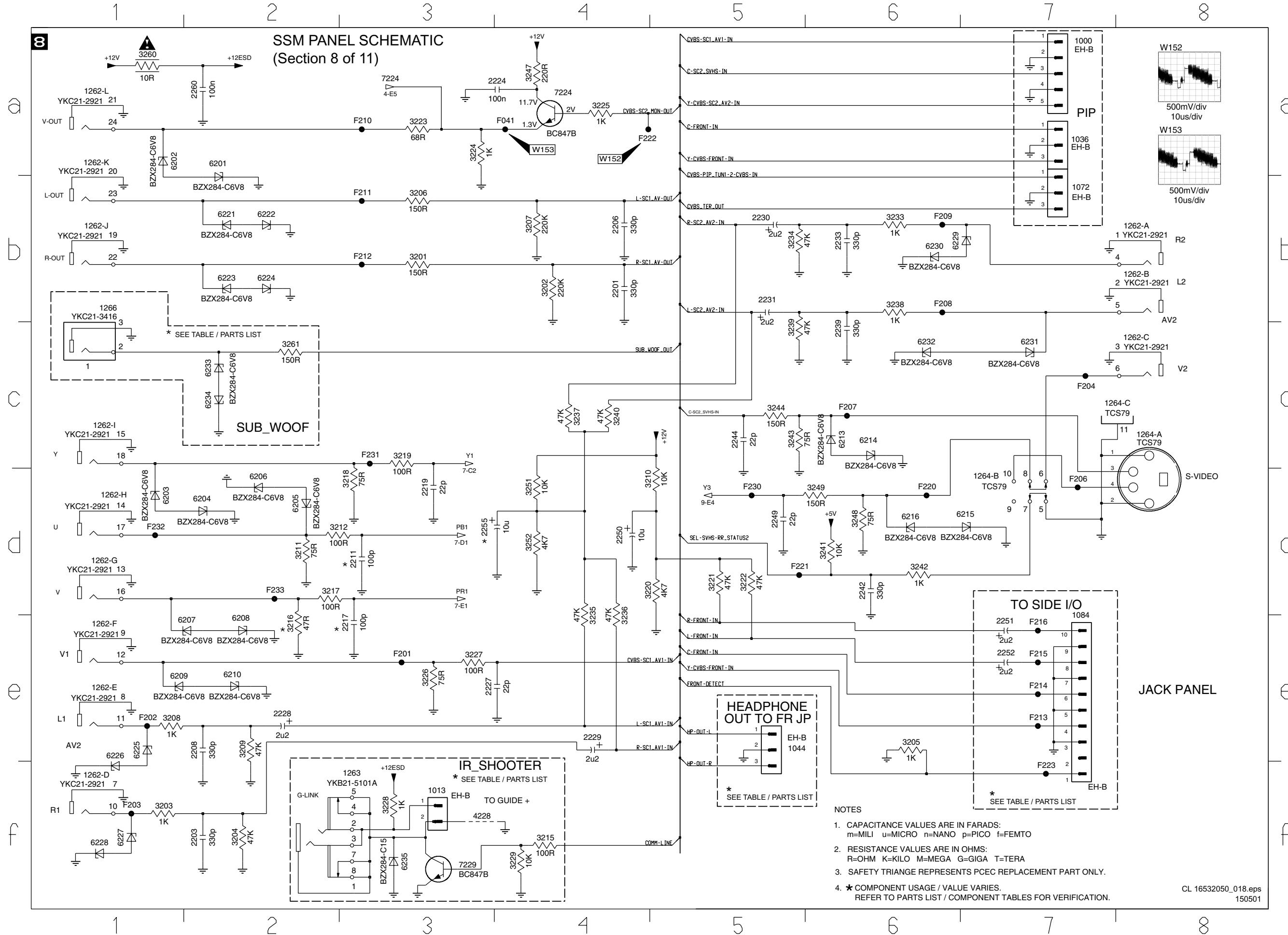
SSM PANEL SCHEMATIC
(Section 6 of 11)



Small Signal Board

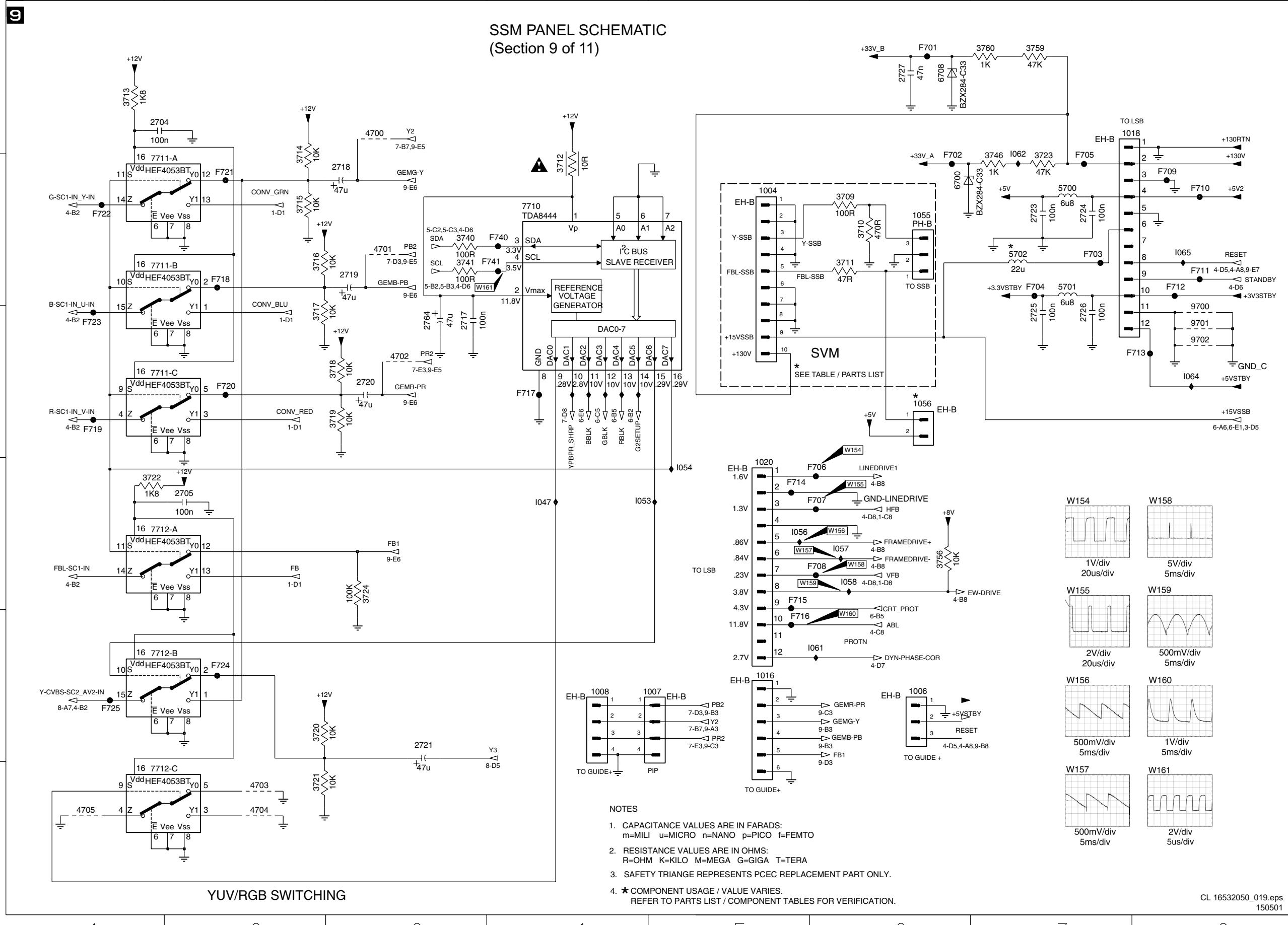


Small Signal Board

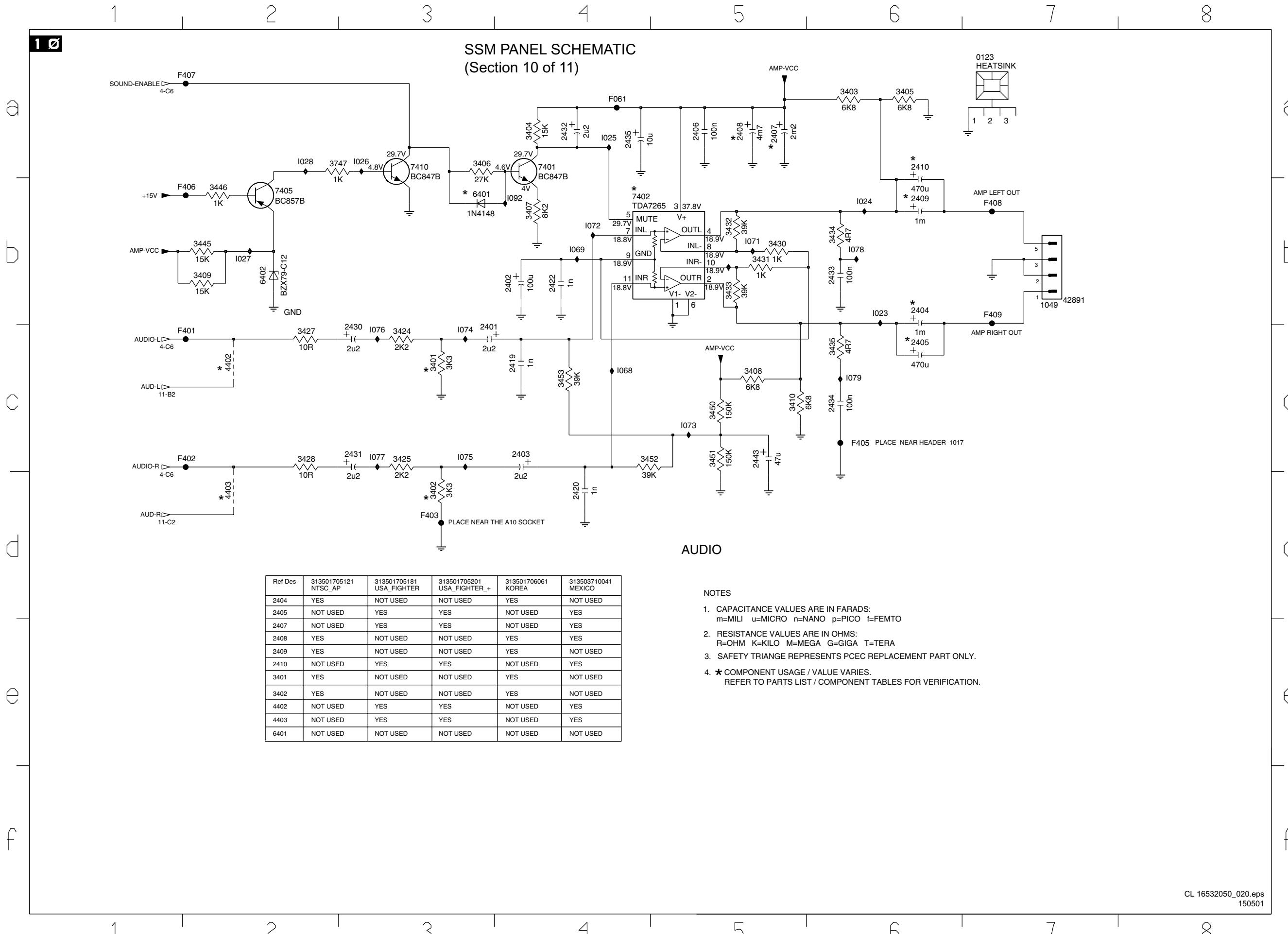


Small Signal Board

1 2 3 4 5 6 7 8



Small Signal Board



Small Signal Board

1 - ~~~~~ 7 -

1 1

SSM PANEL SCHEMATIC (Section 11 of 11)

* SEE TABLE / PARTS LIST

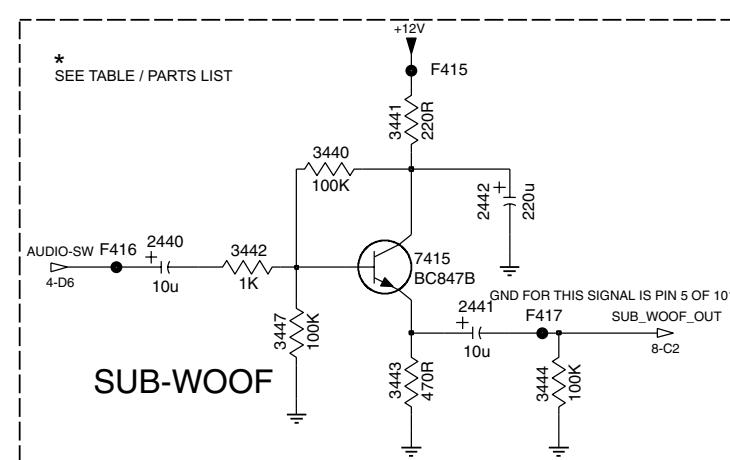
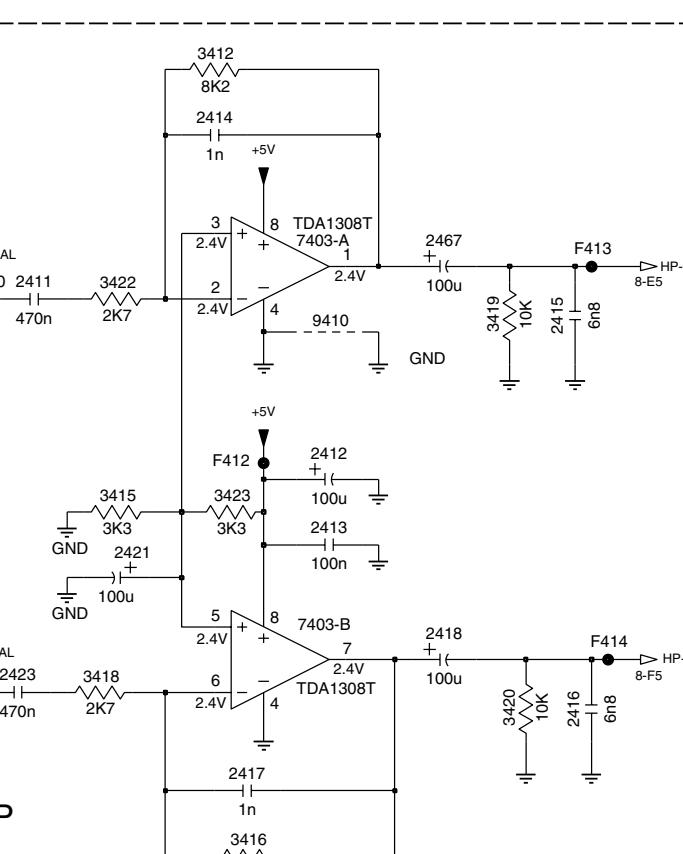
USE F403 GND FOR THIS SIGN
 HEADPHONE-L 4400 F410
 4-C6
 AUD-L

USE F403 GND FOR THIS SIGN.
HEADPHONE-R 4401 F411

HP-AMP

* SEE TABLE / PARTS LIST

SUB-W



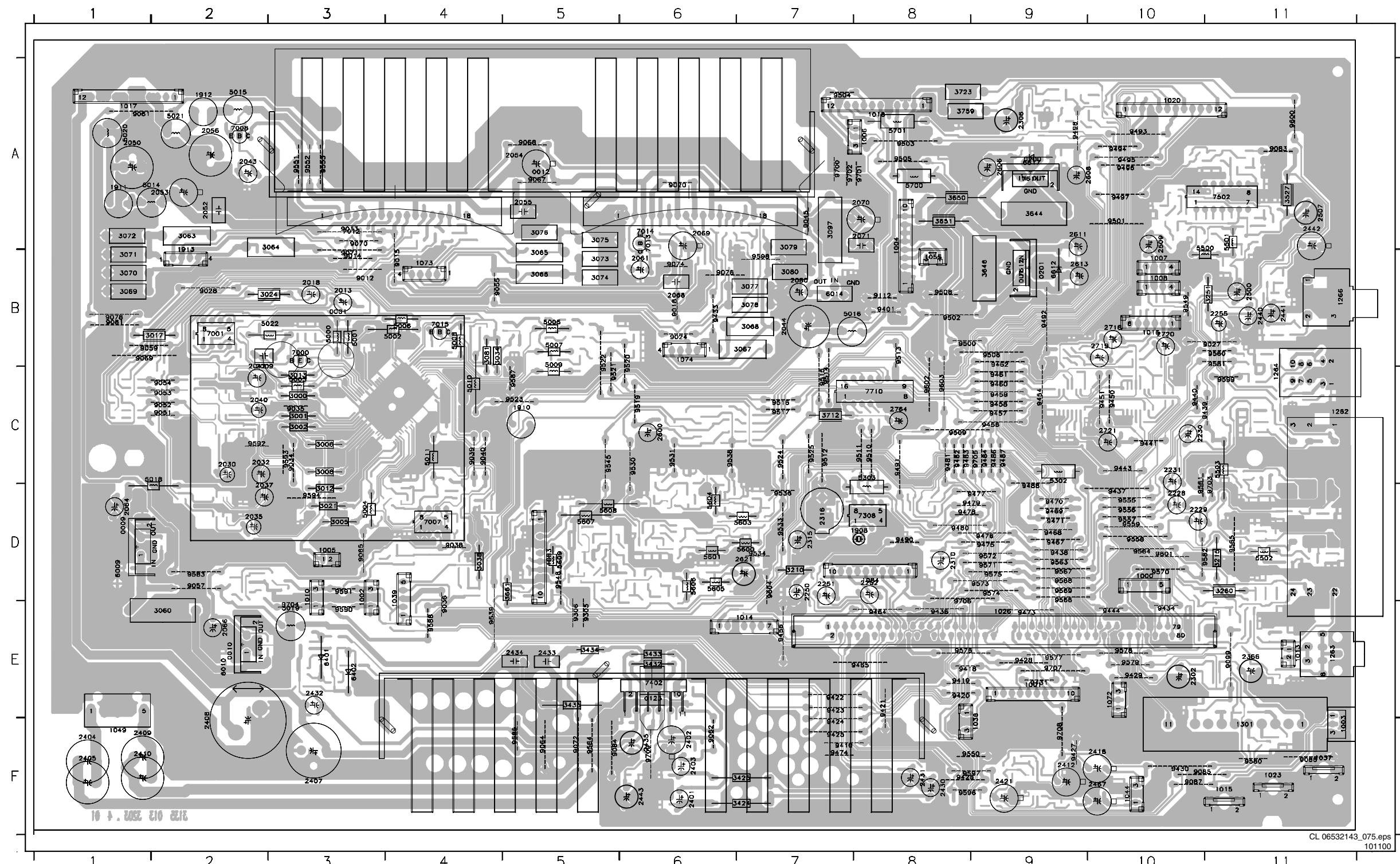
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2411	YES	NOT USED	YES	YES	YES
2412	YES	NOT USED	YES	YES	YES
2413	YES	NOT USED	YES	YES	YES
2414	YES	NOT USED	YES	YES	YES
2415	YES	NOT USED	YES	YES	YES
2416	YES	NOT USED	YES	YES	YES
2417	YES	NOT USED	YES	YES	YES
2418	YES	NOT USED	YES	YES	YES
2421	YES	NOT USED	YES	YES	YES
2423	YES	NOT USED	YES	YES	YES
2440	YES	NOT USED	NOT USED	YES	NOT USED
2441	YES	NOT USED	NOT USED	YES	NOT USED
2442	YES	NOT USED	NOT USED	YES	NOT USED
2467	YES	NOT USED	YES	YES	YES
3412	YES	NOT USED	YES	YES	YES
3415	YES	NOT USED	YES	YES	YES
3416	YES	NOT USED	YES	YES	YES
3418	YES	NOT USED	YES	YES	YES
3419	YES	NOT USED	YES	YES	YES
3420	YES	NOT USED	YES	YES	YES
3422	YES	NOT USED	YES	YES	YES
3423	YES	NOT USED	YES	YES	YES
3440	YES	NOT USED	NOT USED	YES	NOT USED
3441	YES	NOT USED	NOT USED	YES	NOT USED
3442	YES	NOT USED	NOT USED	YES	NOT USED
3443	YES	NOT USED	NOT USED	YES	NOT USED
3444	YES	NOT USED	NOT USED	YES	NOT USED
3447	YES	NOT USED	NOT USED	YES	NOT USED
4400	YES	NOT USED	YES	YES	NOT USED
4401	YES	NOT USED	YES	YES	NOT USED
7403-A	YES	NOT USED	YES	YES	YES
7403-B	YES	NOT USED	YES	YES	YES
7415	YES	NOT USED	NOT USED	YES	NOT USED
9410	YES	NOT USED	YES	YES	YES

NOTE

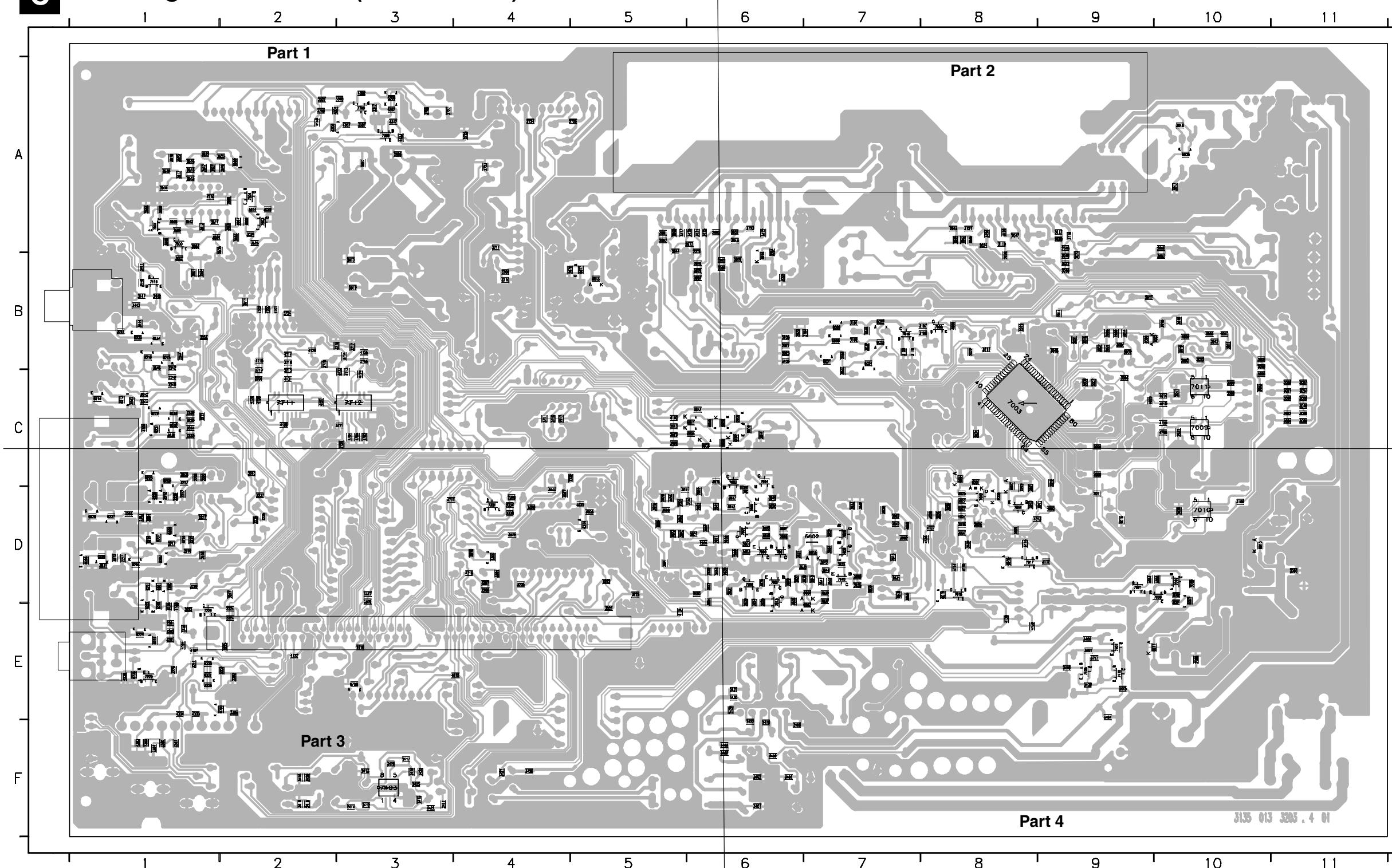
1. CAPACITANCE VALUES ARE IN FARADS:
m=MILI u=MICRO n=NANO p=PICO f=FEMTO
 2. RESISTANCE VALUES ARE IN OHMS:
R=OHM K=KILO M=MEGA G=GIGA T=TERA
 3. SAFETY TRIANGE REPRESENTS PCEC REPLACEMENT PART ONLY
 4. ★ COMPONENT USAGE / VALUE VARIES.
REFER TO PARTS LIST / COMPONENT TABLES FOR VERIFICATION

Layout Small Signal Board (Top View)

C Small Signal Panel CBA (Top View)



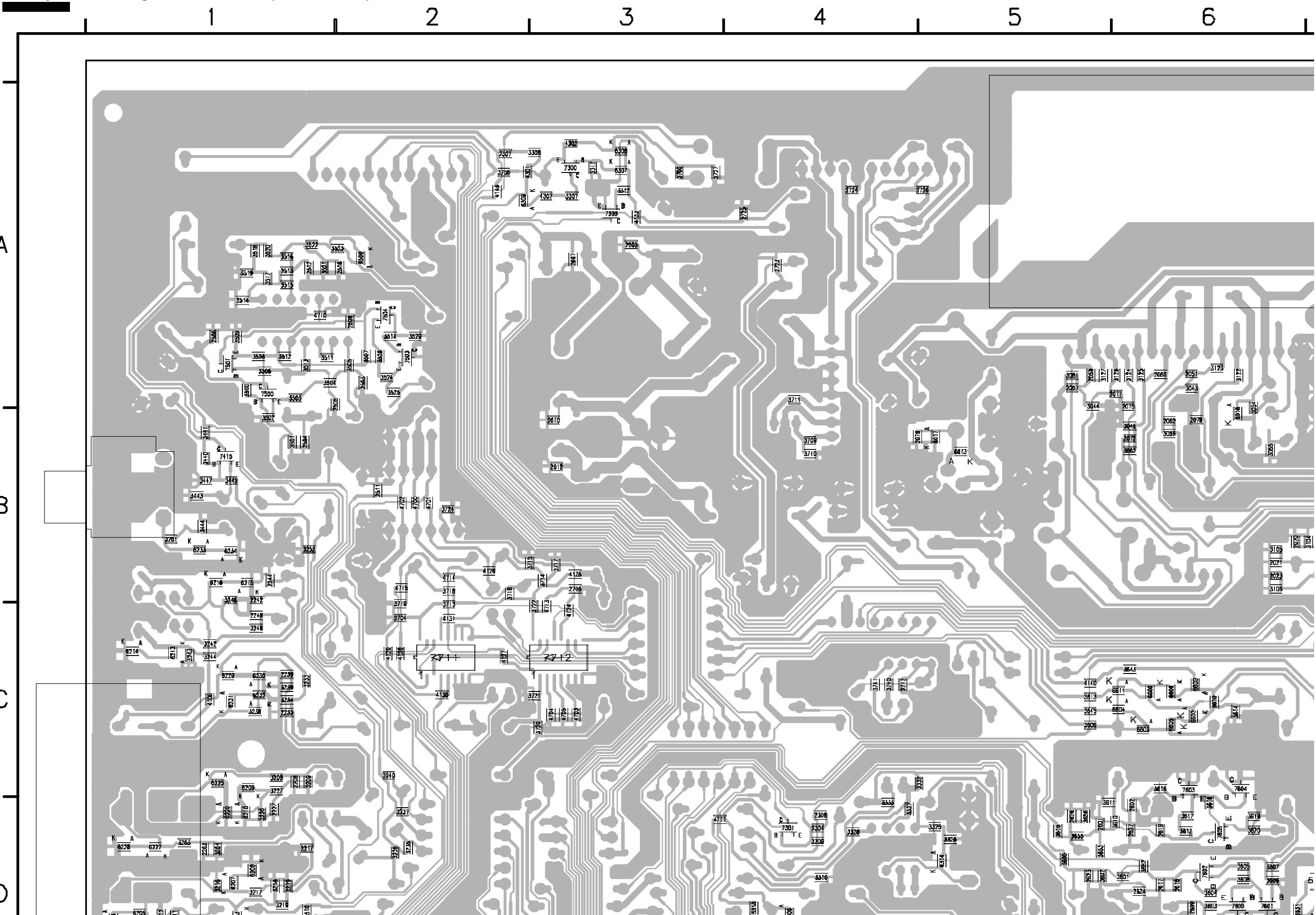
Layout Small Signal Board Overview (Bottom View)

C Small Signal Panel CBA (Bottom View)

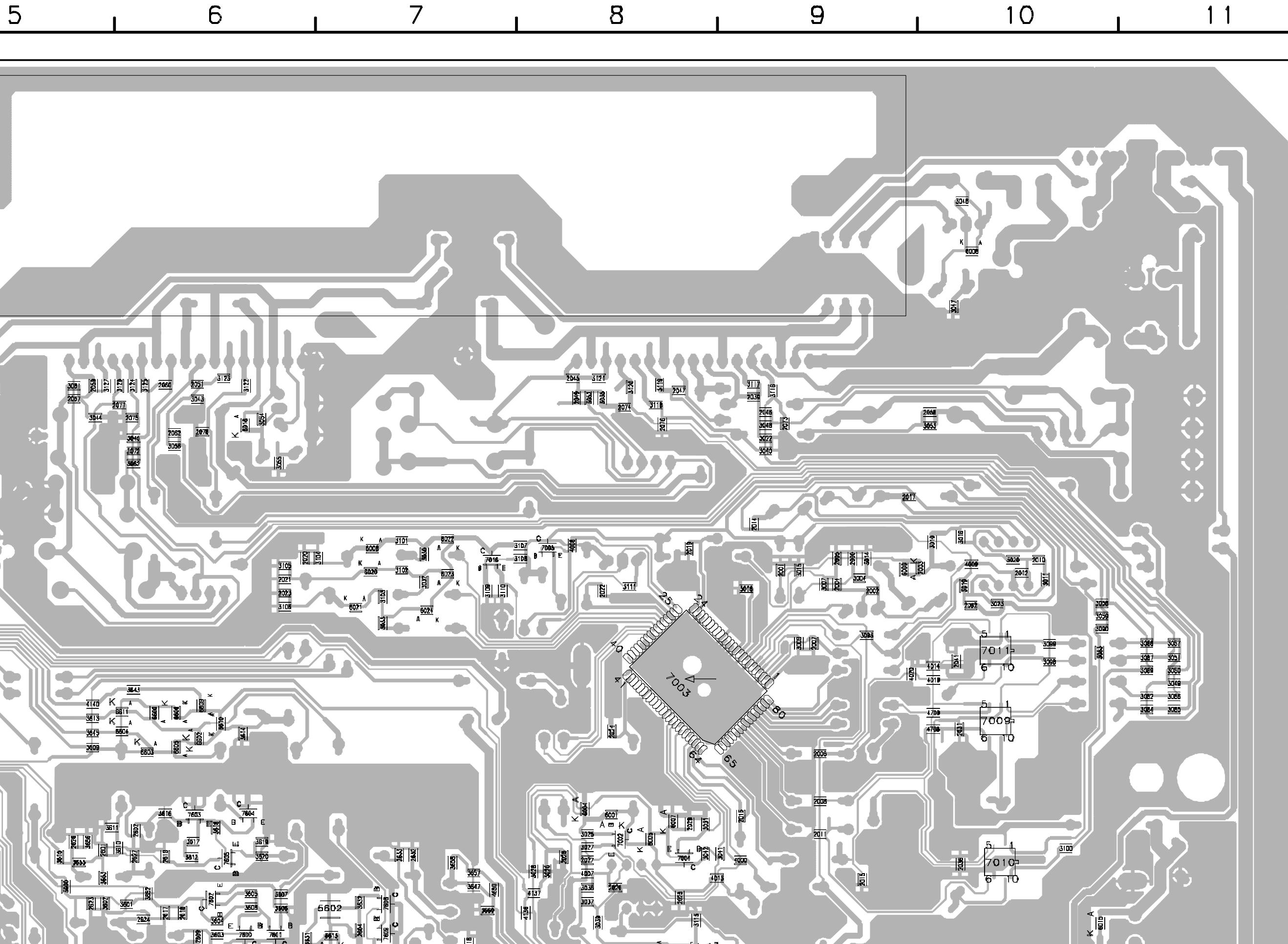
6013 B5	6202 E1	6216 B1	6232 C1	6600 C6	6700 E2	7019 D10	7415 B1	7607 D6
6015 D10	6203 D1	6221 D1	6233 B1	6602 C6	6708 E3	7020 D10	7500 A1	7608 D7
6016 B6	6204 D1	6222 E1	6234 B1	6603 C6	7002 D8	7021 D9	7501 A1	7609 D7
6017 B5	6205 D1	6223 E1	6235 E1	6604 C6	7003 C8	7224 E1	7503 A2	7610 D7
6018 D8	6206 D1	6224 E1	6300 E1	6605 C6	7004 D8	7229 E1	7504 A2	7613 D6
6019 D8	6207 D1	6225 C1	6301 E1	6606 C6	7005 B8	7300 A3	7600 D6	7711 C2
6020 B7	6208 D1	6226 D1	6306 D4	6607 E7	7008 C10	7301 D4	7601 D6	7712 C3
6021 B7	6209 C1	6227 D1	6307 A3	6608 D7	7010 D10	7303 A3	7602 D6	
6022 B7	6210 D1	6228 D1	6308 A3	6609 C6	7011 C10	7401 E9	7603 C6	
6023 B7	6211 C1	6229 C1	6309 A2	6610 C6	7016 B7	7403 F3	7604 C6	
6024 B7	6212 C1	6230 C1	6314 D5	6611 C6	7017 D8	7405 E9	7605 D6	
6201 D1	6215 B1	6231 C1	6500 A2	6613 D7	7018 D8	7410 E9	7606 D6	

2000 B9	2617 D6	3211 D1	3616 C6
2001 B9	2618 D6	3212 D1	3617 D6
2002 B9	2619 D6	3216 D1	3618 D6
2003 B10	2620 D6	3217 D1	3619 D6
2004 B9	2622 D7	3218 D1	3620 D6
2005 B9	2623 D5	3219 D1	3621 D5
2006 C9	2624 D6	3220 D1	3622 D6
2007 C9	2626 D5	3221 E5	3623 D6
2008 C9	2627 D6	3222 D5	3624 D6
2010 B10	2629 D6	3223 E1	3625 D6
2011 D9	2630 D6	3224 E2	3626 D6
2012 B10	2631 D6	3225 E2	3627 D6
2014 B9	2632 D7	3226 D1	3628 D6
2015 D9	2633 D7	3227 C1	3629 D6
2016 C9	2634 D7	3228 E1	3630 D6
2017 B9	2704 C2	3229 E1	3631 D6
2019 B8	2705 B3	3233 C1	3632 D7
2020 B10	2717 C4	3234 C1	3633 D7
2021 B6	2723 A4	3235 D2	3634 D7
2022 B8	2724 A4	3236 D2	3635 D7
2023 B6	2725 A4	3237 D2	3636 D6
2024 C8	2726 A5	3238 C1	3637 D7
2025 D8	2727 A3	3239 C1	3638 D7
2026 D8	3003 C9	3240 C2	3639 D7
2027 D8	3004 B9	3241 E1	3640 D7
2028 D8	3007 B9	3242 C1	3641 D7
2029 D8	3009 C9	3243 C1	3642 D7
2031 C10	3010 B10	3244 C1	3643 C6
2036 D10	3011 B10	3247 D2	3645 C5
2039 A9	3014 B9	3248 B1	3647 D7
2041 C10	3015 B9	3249 C1	3648 D7
2045 A8	3016 B10	3252 B1	3652 D6
2046 A9	3037 D8	3261 B1	3653 D5
2047 A8	3039 D8	3300 F1	3654 D6
2049 A8	3040 B9	3301 F1	3655 D5
2051 A6	3041 D9	3302 E2	3656 D5
2056 A10	3042 D8	3303 E1	3657 D7
2055 A5	3043 A6	3304 D4	3658 D7
2060 A6	3044 A5	3307 A3	3659 D7
2062 B6	3045 B6	3308 A3	3660 D7
2063 D11	3046 A10	3309 D4	3669 D7
2065 E10	3047 A10	3310 D4	3709 B4
2067 A5	3048 B9	3312 A3	3710 B4
2072 B6	3049 C11	3317 A3	3711 A4
2073 B9	3050 C11	3318 D4	3713 C2
2074 A8	3051 C11	3325 D5	3714 B3
2075 A6	3052 A8	3326 D5	3715 B2
2076 B8	3053 B10	3327 D4	3716 B2
2077 A6	3054 A6	3328 D4	3717 B3
2078 B6	3055 B6	3332 C5	3718 B2
2079 B4	3056 B6	3333 D4	3719 C2
2082 B10	3057 C11	3401 F6	3720 C3
2201 E1	3058 B10	3402 F6	3721 C3
2203 D1	3059 B10	3404 E9	3722 C3
2206 D4	3061 A5	3406 E9	3724 B2
2208 C1	3062 B6	3407 E9	3740 C4
2211 D1	3082 C11	3409 E9	3741 C4
2217 D1	3083 C10	3412 F3	3746 E1
2219 D1	3084 C11	3415 F3	3747 E9
2224 E2	3085 C11	3416 F3	3756 A2
2227 D1	3086 C11	3418 F3	3760 A3
2233 C1	3087 C11	3419 F2	4009 D9
2239 C1	3088 C11	3420 F2	4007 D8
2242 B1	3089 C11	3422 F3	4008 B8
2244 B1	3090 C10	3453 F6	4009 B10
2249 C1	3091 D10	3500 A1	4010 E4
2260 D1	3092 D10	3501 B1	4013 D9
2300 F1	3094 D9	3502 B1	4014 C10
2301 F1	3096 D10	3503 A1	4019 C10
2303 E2	3098 C10	3504 A1	4029 C9
2304 E2	3099 C10	3505 A2	4104 E1
2305 E2	3100 D10	3506 A1	4106 C1
2307 A2	3101 B7	3507 A2	4107 E1
2308 D4	3102 B7	3508 A1	4109 E1
2317 D3	3103 B7	3509 A1	4122 E2
2318 E3	3104 B7	3511 A1	4124 C3
2319 D3	3105 B6	3512 A1	4125 B3
2406 F6	3106 B6	3513 A1	4126 B2
2411 F3	3107 B8	3514 A2	4127 C2
2413 F3	3108 B8	3515 A1	4128 C2
2414 F3	3109 B7	3516 A1	4129 C2
2415 F2	3110 B7	3517 A1	4130 C2
2416 F2	3111 B8	3518 A1	4131 C2
2417 F3	3112 D9	3519 A1	4133 A3
2419 F6	3113 D8	3520 A1	4134 E5
2420 E6	3114 D8	3521 A1	4136 D8
2422 F6	3115 D8	3522 A1	4137 D8
2423 F3	3116 A9	3523 A2	4138 E8
2503 A2	3117 A9	3524 A2	4139 E8
2504 B1	3118 A8	3525 A2	4140 C5
2505 A1	3119 A8	3528 A2	4143 A2
2506 A2	3120 A8	3529 A2	4228 E1
2507 A1	3121 A8	3600 D5	4301 E1
2510 D1	3122 A6	3601 D6	4301 A2
2511 B2	3123 A6	3602 D5	4302 A3
2512 A1	3124 A6	3603 D6	4303 F1
2513 A1	3125 A6	3604 D6	4715 B2
2514 A1	3126 A6	3605 D6	4716 D4
2516 A2	3127 A5	3606 D6	5602 D7
2601 D5	3201 E1	3607 D6	6000 B9
2602 D6	3202 E1	3608 D6	6001 C8
2604 D7	3203 D1	3609 C5	6002 D10
2605 A3	3204 D1	3610 D6	6004 C8
2607 A3	3205 D4	3611 D5	6005 D8
2609 D6	3206 D1	3612 D6	6006 A10
2611 B3	3207 D4	3613 C5	6007 C8
2612 B3	3208 C1	3614 C6	6008 B7
2616 D7	3209 C1	3615 D5	6011 E10

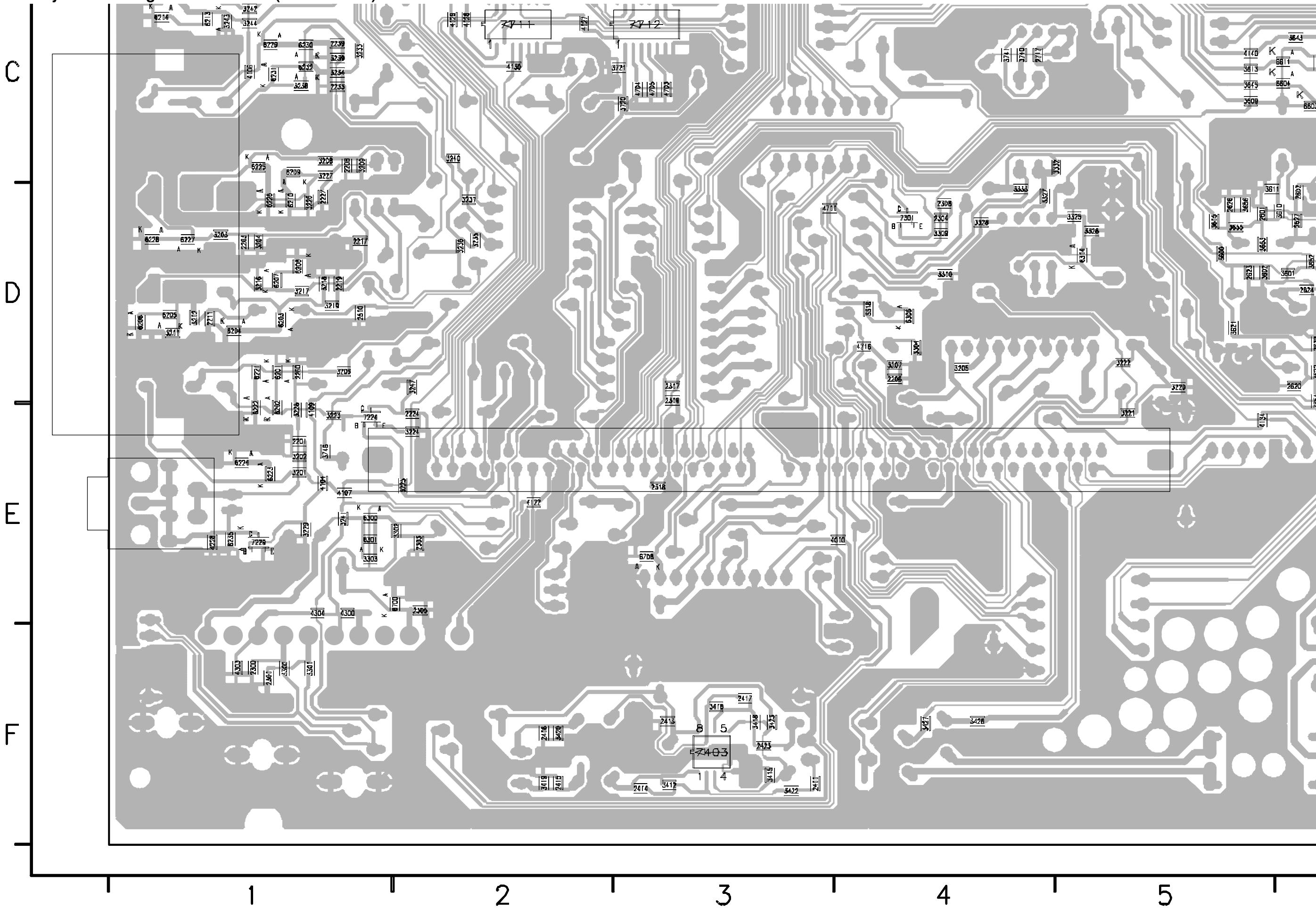
Layout Small Signal Board Part 1 (Bottom View)



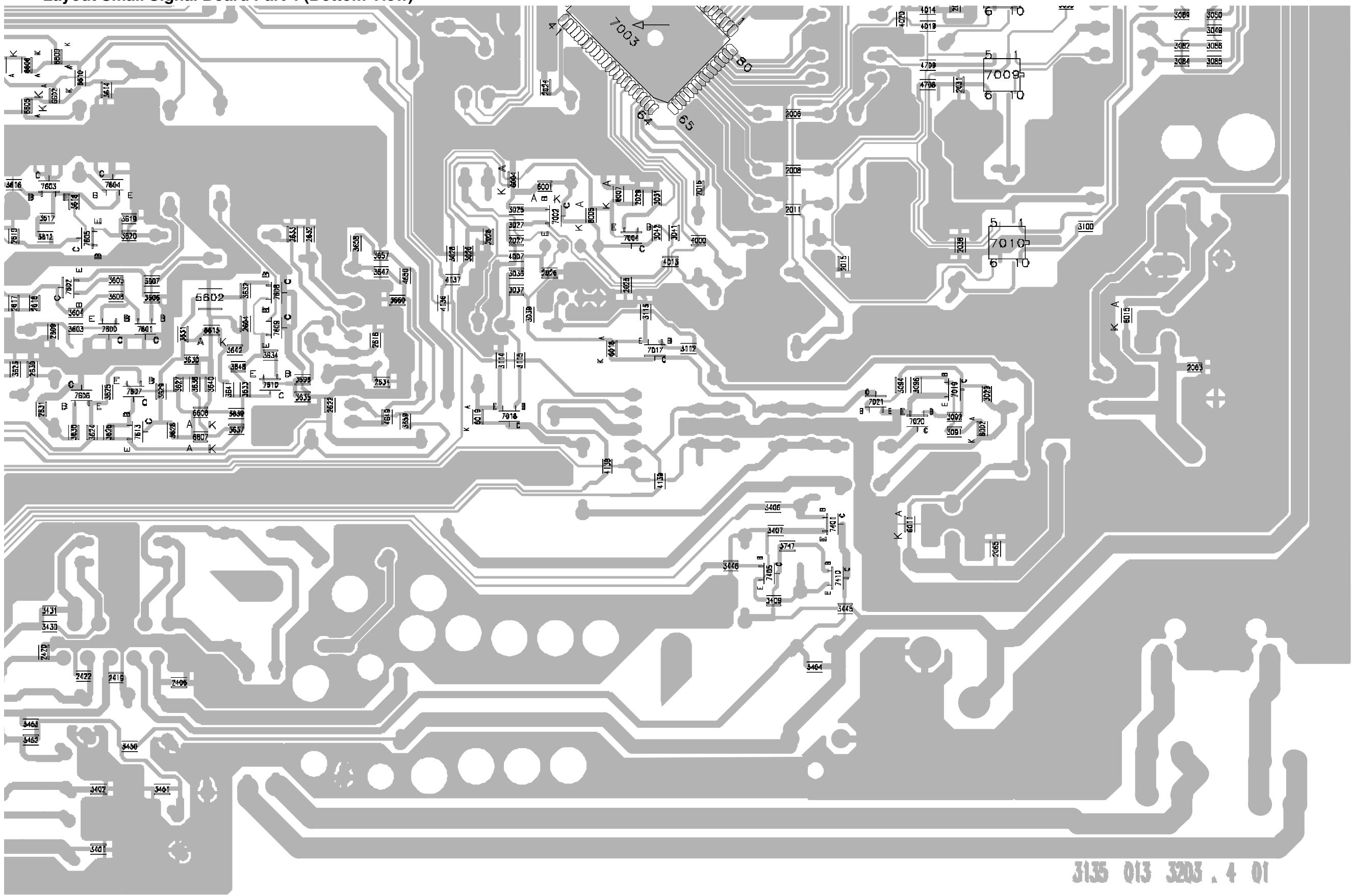
Layout Small Signal Board Part 2 (Bottom View)



Layout Small Signal Board Part 3 (Bottom View)



Layout Small Signal Board Part 4 (Bottom View)



6

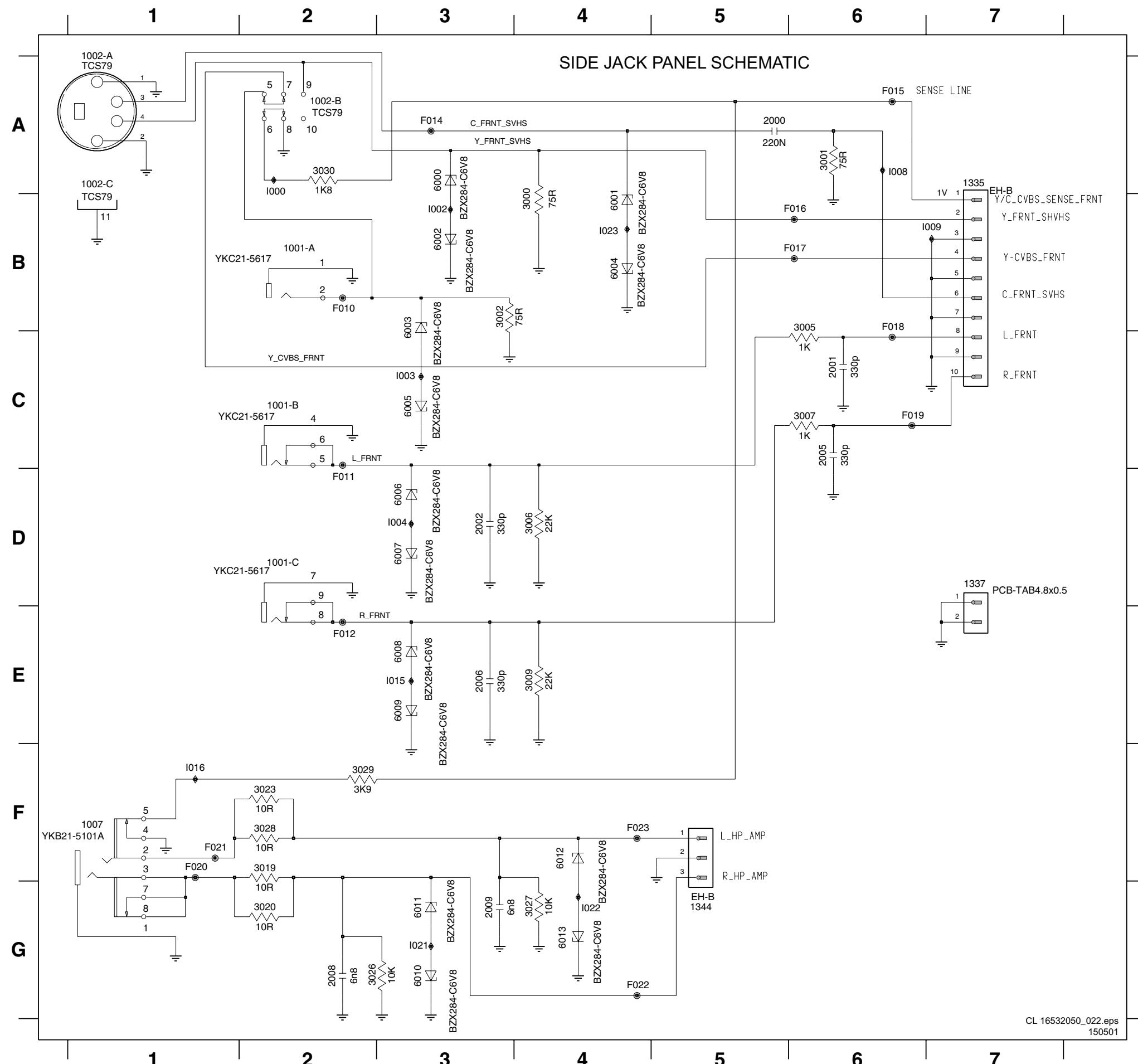
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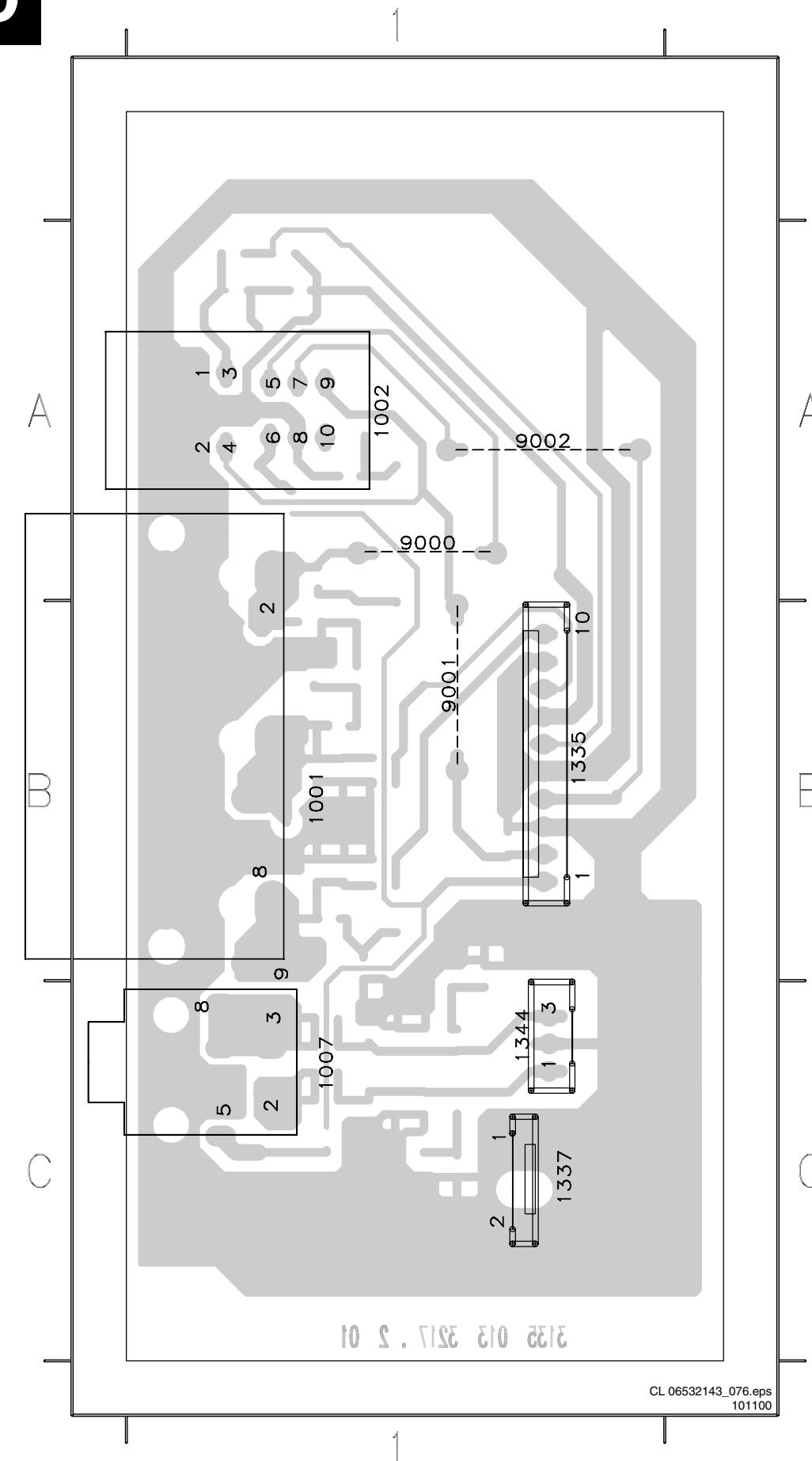
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11

Side Jack Panel

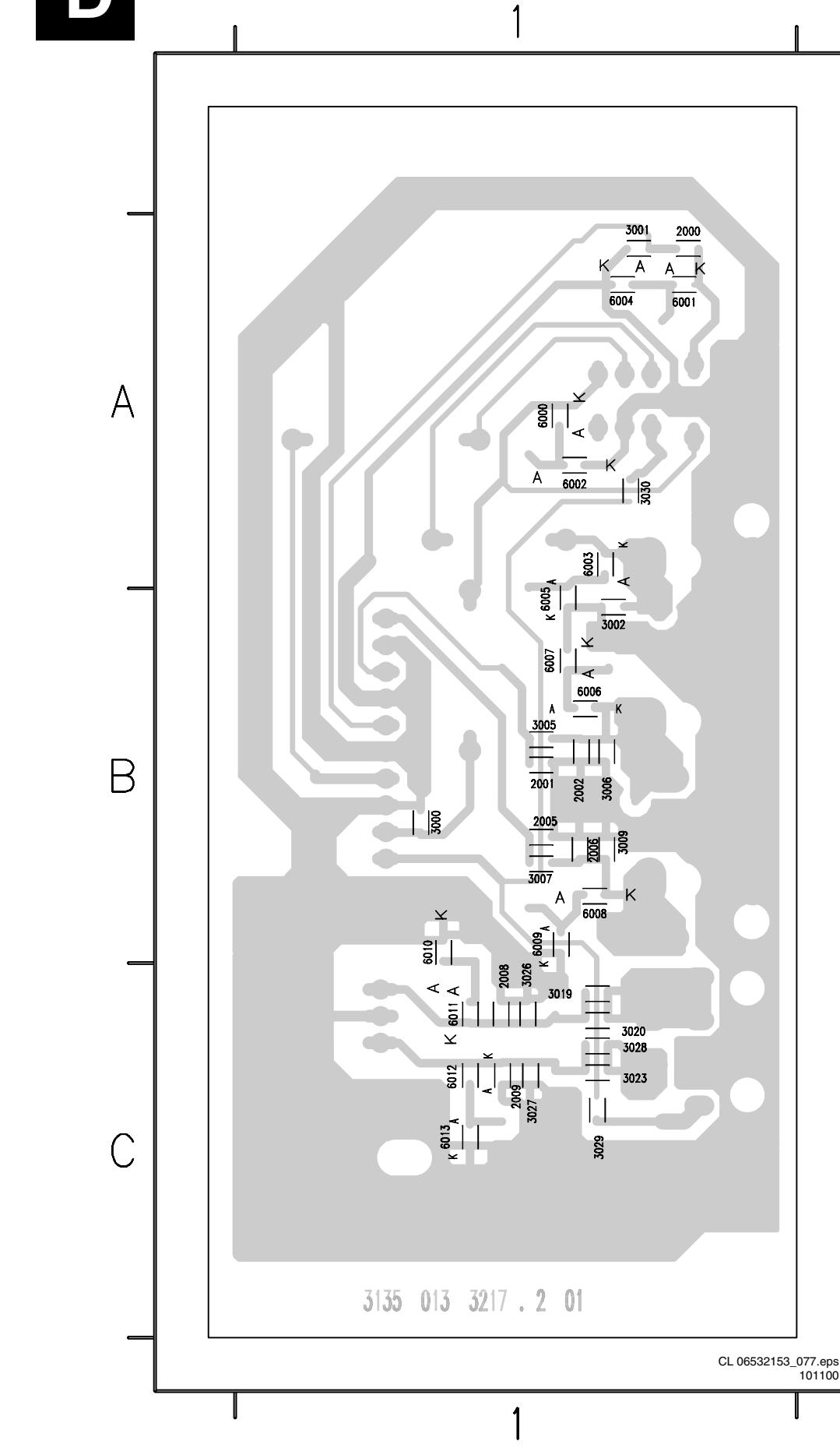
Layout Side Jack Panel (Top View)

Side Jack Panel CBA (Top View)

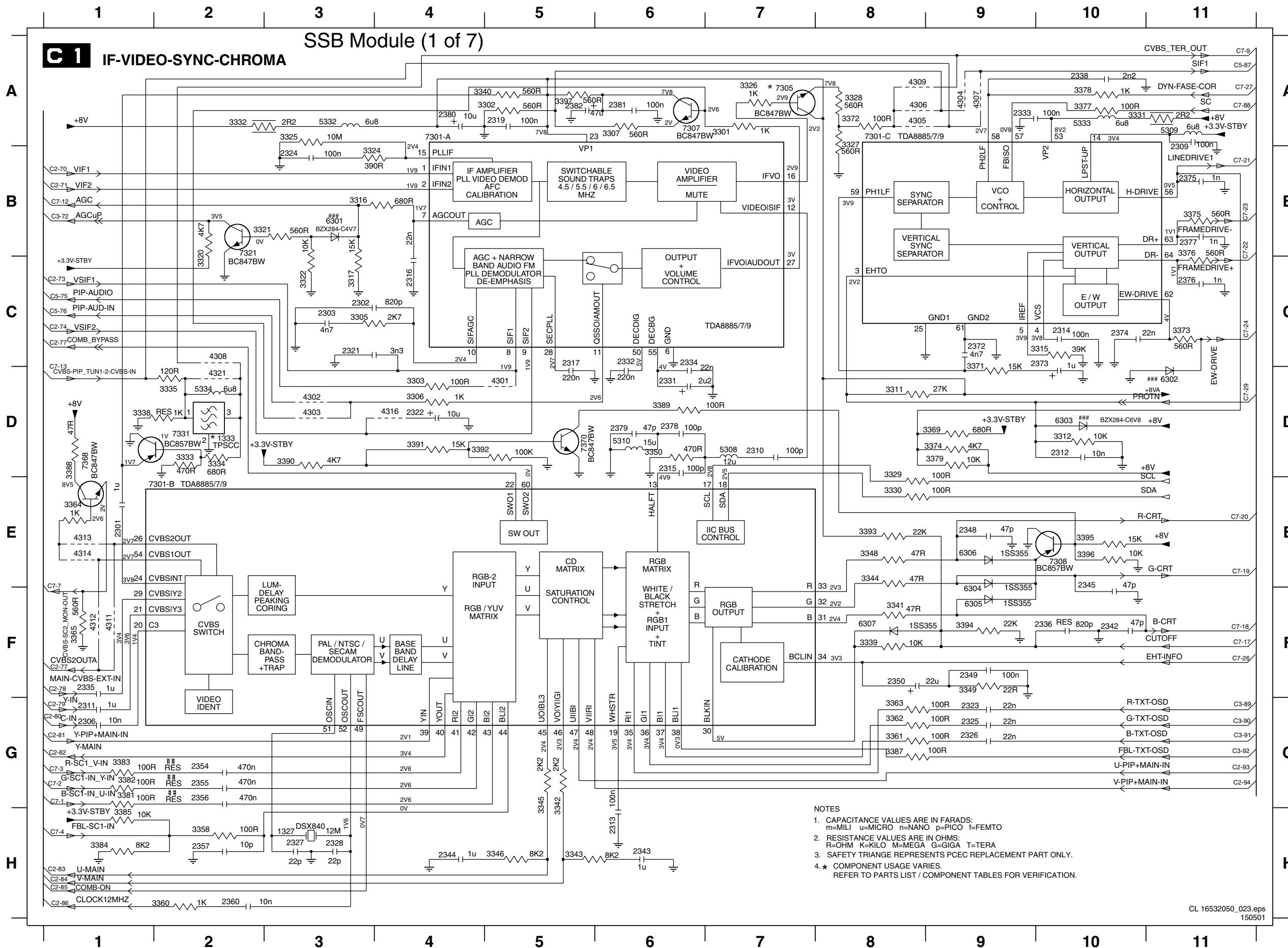


Layout Side Jack Panel (Bottom View)

Side Jack Panel CBA (Bottom View)

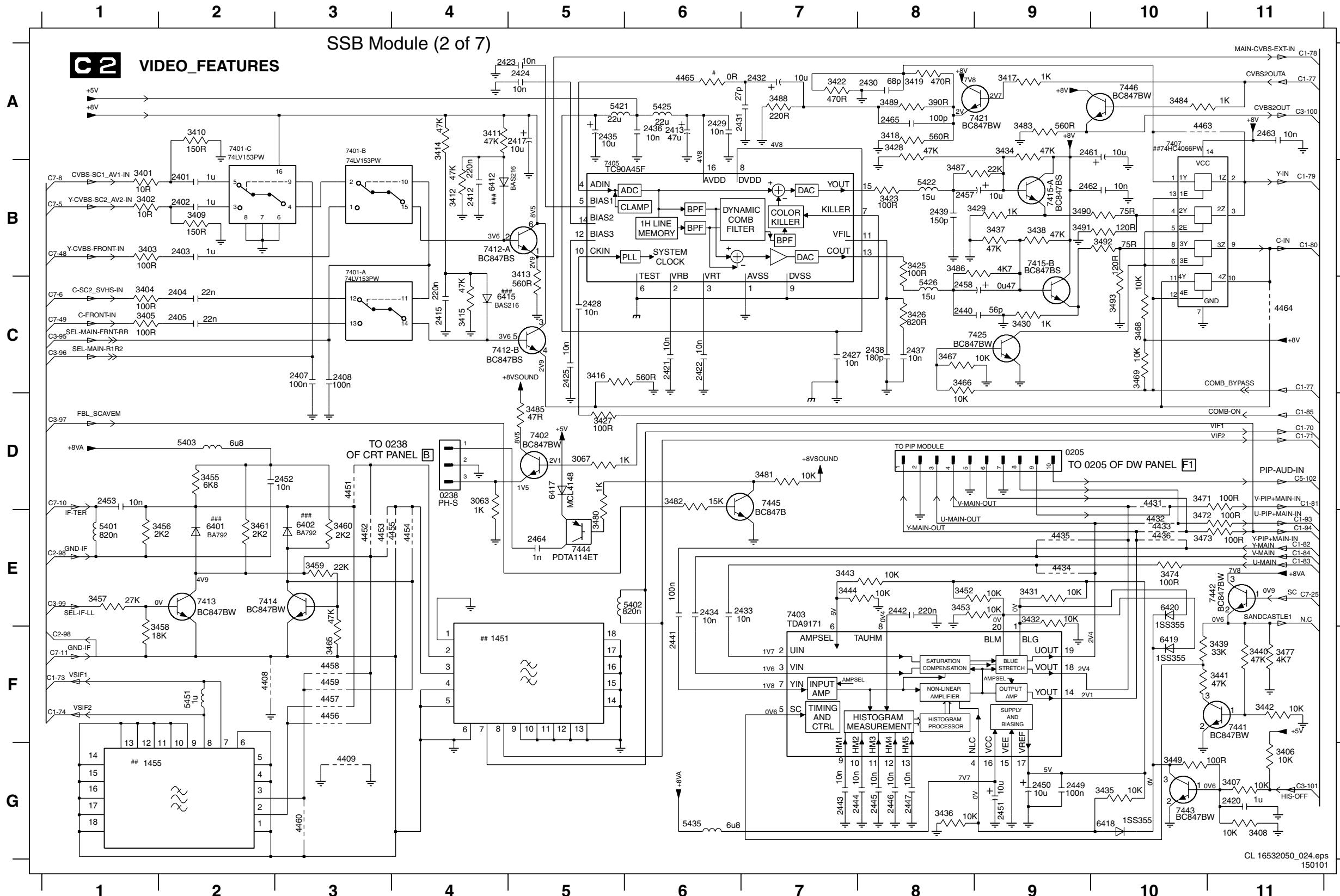


Analog Small Signal Board: IF-VIDEO-CHROMA

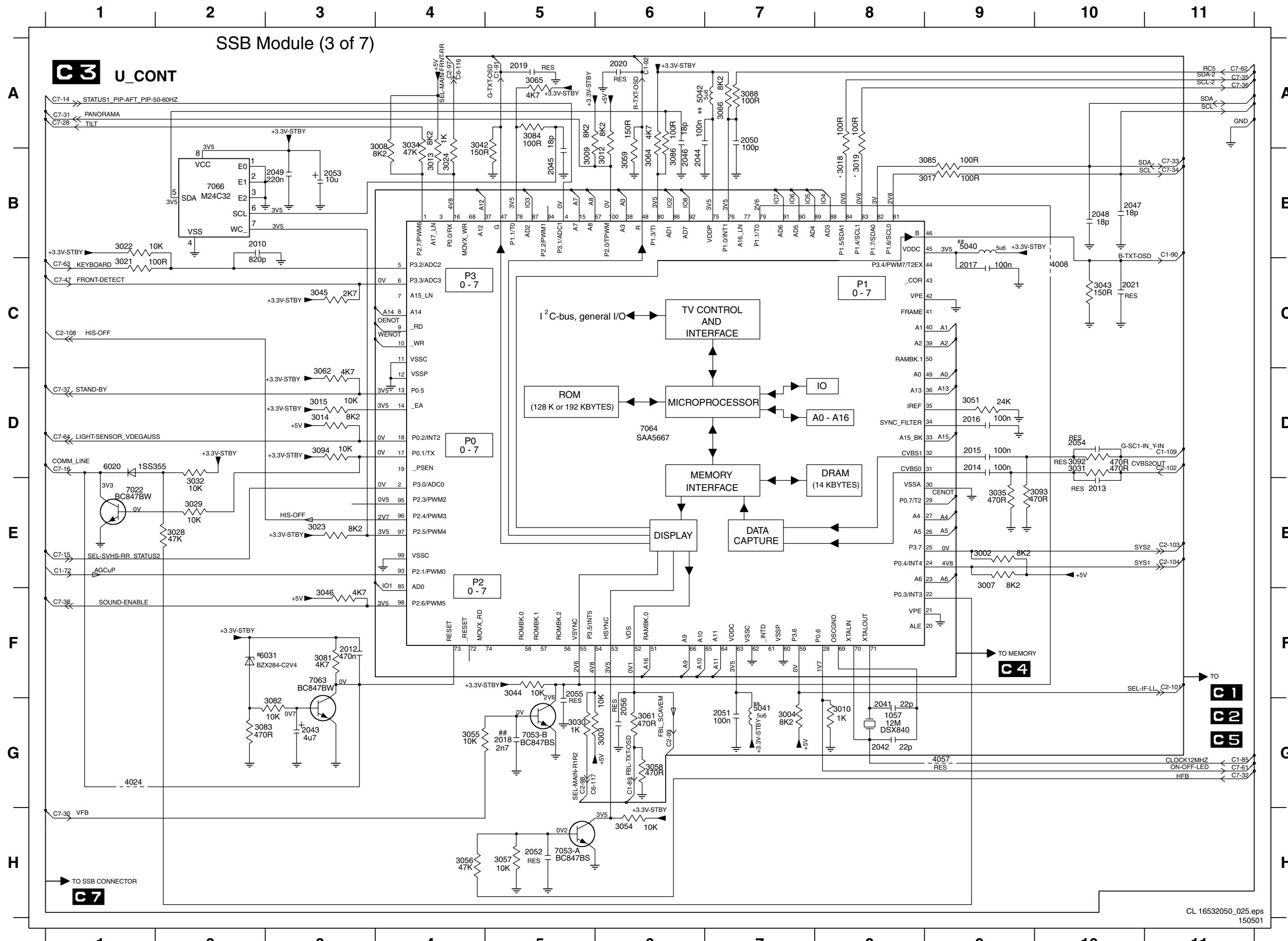


1327 H3	3364 E1
1333 D2	3365 F1
2301 E1	3369 D9
2302 C3	3371 D9
2303 C3	3372 A8
2306 G1	3373 C11
2309 B11	3374 D9
2310 D7	3375 B11
2311 G1	3377 A10
2312 D10	3378 A10
2313 H6	3379 D9
2314 C10	3381 G1
2315 D6	3382 G1
2316 C4	3383 G1
2317 C5	3384 H1
2319 A5	3385 H1
2321 C3	3387 G8
2322 D4	3388 D1
2323 G9	3389 D6
2324 B3	3390 D3
2325 G9	3391 D4
2326 G9	3392 D4
2327 H3	3393 E8
2328 H3	3394 F9
2331 D6	3395 E10
2332 C6	3396 E10
2333 A9	3397 A5
2334 C6	3398 F1
2335 F10	3402 D3
2336 F10	3403 D3
2338 A10	3404 A9
2342 F10	3405 A8
2343 H6	3406 A8
2344 H4	3407 A9
2345 E10	3408 E9
2348 E9	3409 A8
2349 F9	3411 F1
2350 F8	3412 F1
2354 G2	3413 E1
2355 G2	3414 E1
2356 G2	3416 D4
2357 H2	3421 D2
2360 H2	3422 C9
2362 D7	5308 D7
2373 C10	5309 A11
2374 C10	5310 D6
2375 B11	5332 A3
2376 C11	5333 A10
2377 B11	5334 D2
2378 D6	5335 D6
2379 D6	6301 B3
2380 A4	6302 D11
2381 A6	6303 D10
2382 A5	6304 E9
2383 F9	6305 F9
3301 A7	6306 E9
3302 A5	6307 F8
3303 D4	7301-A A4
3305 C3	7301-B E1
3306 D4	7301-C A8
3307 A6	7305 A7
3311 D8	7312 D10
3312 D10	7308 E10
3315 C10	7321 B2
3316 B3	7331 D2
3317 C3	7368 D1
3320 C2	7370 D5
3321 B2	
3322 C3	
3324 B3	
3325 A3	
3326 A7	
3327 B8	
3328 A8	
3329 D8	
3330 E8	
3331 A10	
3332 A2	
3333 D2	
3334 D2	
3335 D2	
3336 D1	
3339 F8	
3340 A4	
3341 F8	
3342 G5	
3343 H5	
3344 E8	
3345 G5	
3346 H5	
3348 E8	
3349 F9	
3350 D6	
3358 H2	
3360 H2	
3361 G8	
3362 G8	
3363 G8	

Analog Small Signal Board: Video Features



Analog Small Signal Board: Micro Controller



1057 G8
2010 B2
2012 F3
2013 E10
2014 D9
2015 D9
2016 D9
2017 C9
2018 G5
2019 A5
2020 A6
2021 C10
2041 G8
2042 G8
2043 G3
2044 B6
2045 B5
2046 B6
2047 B10
2048 B10
2049 B3
2050 A7
2051 G7
2052 H5
2053 B3
2054 D10
2055 F5
2056 G6
3002 E9
3003 G6
3004 G7
3007 F9
3008 A4
3009 B5
3010 G8
3012 B6
3013 B4
3014 D3
3015 D3
3017 B9
3018 B8
3019 B8
3021 C1
3022 B1
3023 E3
3024 B4
3028 E2
3029 E2
3030 G5
3031 D10
3032 E2
3034 A4
3035 E9
3042 A4
3043 C10
3044 F5
3045 C3
3046 F3
3051 D9
3054 H6
3055 G4
3056 H4
3057 H5
3058 G6
3059 B6
3061 G6
3062 D3
3064 B6
3065 A5
3066 A7
3081 F3
3082 G3
3083 G2
3084 A5
3085 B9
3086 B6
3088 A7
3092 D10
3093 E10
3094 D3
4008 C10
4024 G1
4057 G9
5040 B9
5041 G7
5042 A6
6020 D1
6031 F3
7022 E1
7053-A H5
7053-B G5
7063 F3
7064 D6
7066 B2

Analog Small Signal Board: Diversity Tables

Diversity tables diagram C2

Item	HISTOGRAM WITH DW	WITHOUT HISTOGRAM & DW
0205	CON 10P	
2420	100P 50V	
2433	10N 50V	
2434	10N 50V	
2441	100N 16V	
2442	220N 16V	
2443	10N 50V	
2444	10N 50V	
2445	10N 50V	
2446	10N 50V	
2447	10N 50V	
2449	100N 16V	
2450	10U 16V	
2451	10U 16V	
3406	10K 0603	
3407	10K 0603	
3408	10K 0603	
3431	22K 0603	
3432	22K 0603	
3435	18K 0603	
3436	15K 0603	
3439	10K 0603	
3443	JUMPER	
3444	220K 0603	
3452	22K 0603	
3453	18K 0603	
4431	JUMPER	
4432	JUMPER	
4433	JUMPER	
4434	JUMPER	
4435	JUMPER	
4436	JUMPER	
5435	6U8	
6418	1SS355	
6419	1SS355	
6420	1SS355	
7403	TDA9171T/N1	
7443	BC847BW	

Item	NTSC-M	AP PAL/Multi	China Multi
1451	.	.	OFWM3956L 38MHz
1451	OFWM1967L 45.75MHz	.	
1451	.	OFWK7265L 38.9MHz	
1454	.	OFWK3955L 38MHz	
1455	.	OFWK9352L 38MHz	
1455	.	OFWK9361L 38.9MHz	
2452	10N 50V	10N 50V	
3455	6K8 5%	6K8 5%	
3456	2K2 5%	2K2 5%	
3457	27K 5%	27K 5%	
3458	18K 5%	18K 5%	
3459	.	22K 5%	
3460	.	2K2 5%	
3461	2K2 5%	2K2 5%	
3465	.	47K 5%	
4451	jumper	jumper	
4452	.	jumper	
4453	jumper		
4455	jumper	jumper	
4457	jumper	jumper	
4460	jumper	jumper	
5403	6U8 5%	6U8 5%	
6401	1SS356	1SS356	
6402	.	1SS356	
7413	BC847BW	BC847BW	
7414	.	BC847BW	

Diversity table diagram C1

Item	NTSC	PAL/MULTI
1333	.	FIL 5.8M/6.5M
2302	330P 0603	
2303	4N7 0603	
2304	.	4U7 35V
2321	4N7 0603	
2322	10U 16V	
3301	1K 0603	
3306	.	1K 0603
3335	.	120R 0603
4303	.	JUMPER
4305	.	JUMPER
4308	JUMPER	
4309	JUMPER	
4316	JUMPER	
4684	JUMPER	
4684	JUMPER	
5334	.	6U8
7301	.	TDA8885H/N1
7301	TDA8889H/N1	

Analog Small Signal Board: Memory

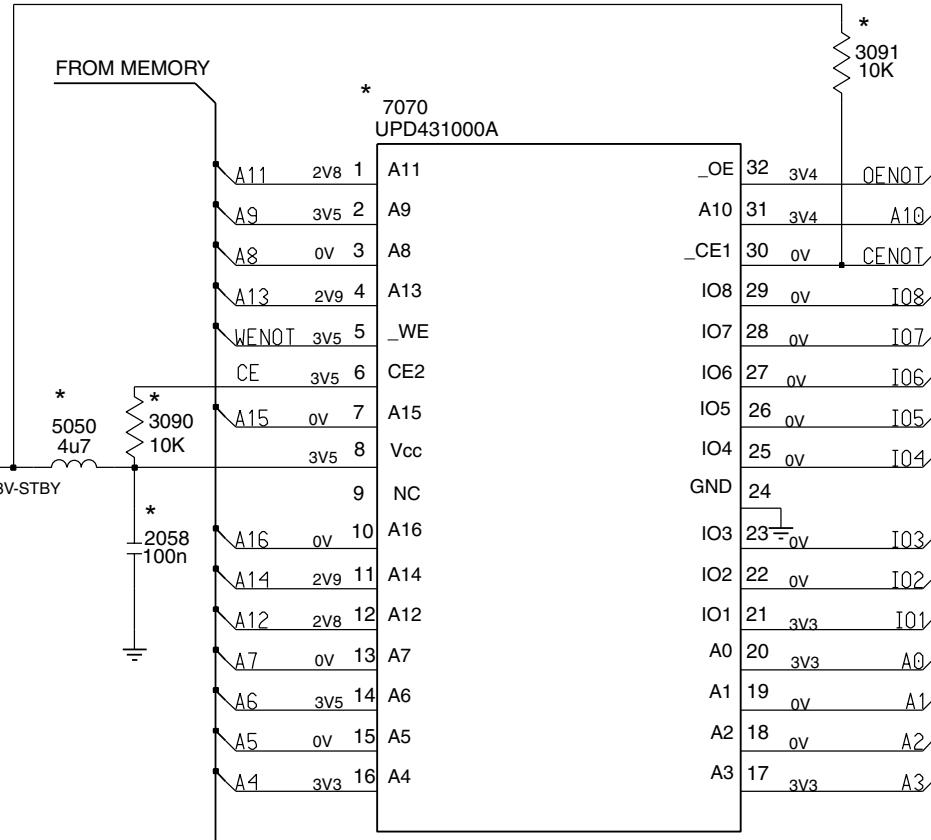
1 2 3 4

C 4

MEMORY

NOTES

- CAPACITANCE VALUES ARE IN FARADS:
m=MILLI u=MICRO n=NANO p=PICO f=FEMTO
- RESISTANCE VALUES ARE IN OHMS:
R=OHM K=KILO M=MEGA G=GIGA T=TERA
- SAFETY TRIANGLE REPRESENTS PEC REPLACEMENT PART ONLY.
- * COMPONENT USAGE VARIES.
REFER TO PARTS LIST / COMPONENT TABLES FOR VERIFICATION.



Diversity table diagram C3

Item	AP - Taiwan	AP 100Pg Txt	China Non Txt	AP - Korea	AP - ME 100Pg Txt	AP 100Pg Txt	AP - ME 100Pg Txt
2058	100N 16V	.	.	100N 16V	.	.	.
3010	.	.	.	1K 5%	.	.	.
3028	47K 5%	.	.	47K 5%	.	.	.
3029	10K 5%	.	.	10K 5%	.	.	.
3032	10K 5%	.	.	10K 5%	.	.	.
3033	10K 5%	.	.	10K 5%	.	.	.
3090	10K 5%	.	.	10K 5%	.	.	.
3091	10K 5%	.	.	10K 5%	.	.	.
3094	10K 5%	10K 5%	.	10K 5%	.	.	.
5050	5U6 10%	.	.	5U6 10%	.	.	.
6020	1SS355	.	.	1SS355	.	.	.
7022	BC847BW	.	.	BC847BW	.	.	.
7070	UPD431000	.	.	UPD431000	.	.	.

CL 16532050_026.eps
150501

Diversity table diagram C5 & C6

Item	VIRTUAL DOLBY	NO VIRTUAL DOLBY	NO VIRTUAL DOLBY /71 ONLY
2610	1N 50V		
2611	1N 50V		
2614	4N7 50V		
2622	10U 16V		
2631	1U 10V		
2632	4N7 50V		
2633	1U 10V		
2634	4N7 50V		
2679		100N 16V	100N 16V
2682		1U 10V	1U 10V
2683		1U 10V	1U 10V
2684		1U 10V	1U 10V
2685		1U 10V	1U 10V
2686		1U 10V	1U 10V
2687		1U 10V	1U 10V
4640	JUMPER		
4642	JUMPER		
7630		74HC4052PW	74HC4052PW
7651		MSP3415D-FH-B3	
7651		MSP3435G-FH-B5	
7651	MSP3451G-FH-A1		

CL 16532050_027.eps
1505012058 D1
3090 C1
3091 B4
5050 C1
7070 B2

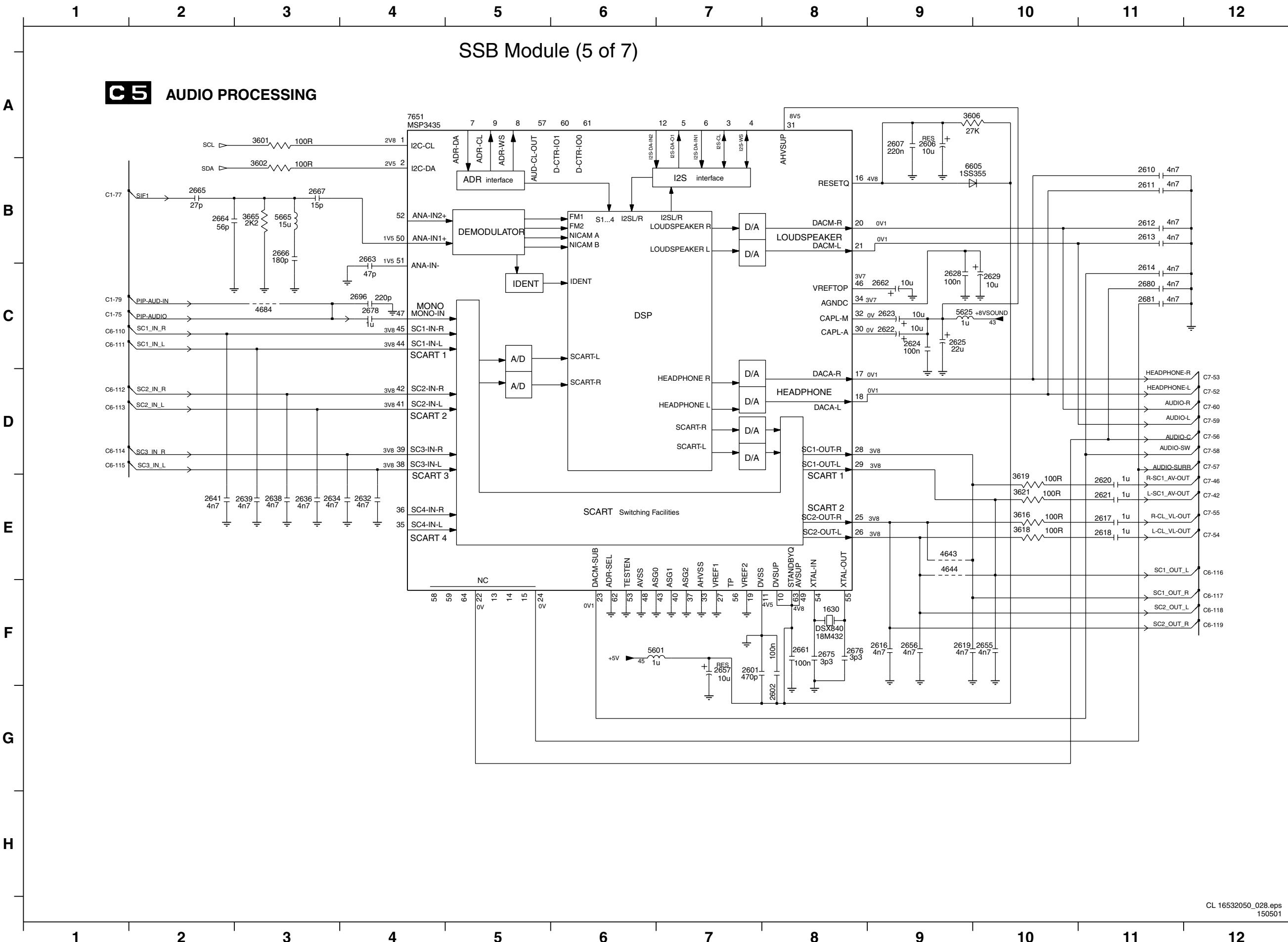
A

B

C

D

Analog Small Signal Board: Audio Processing

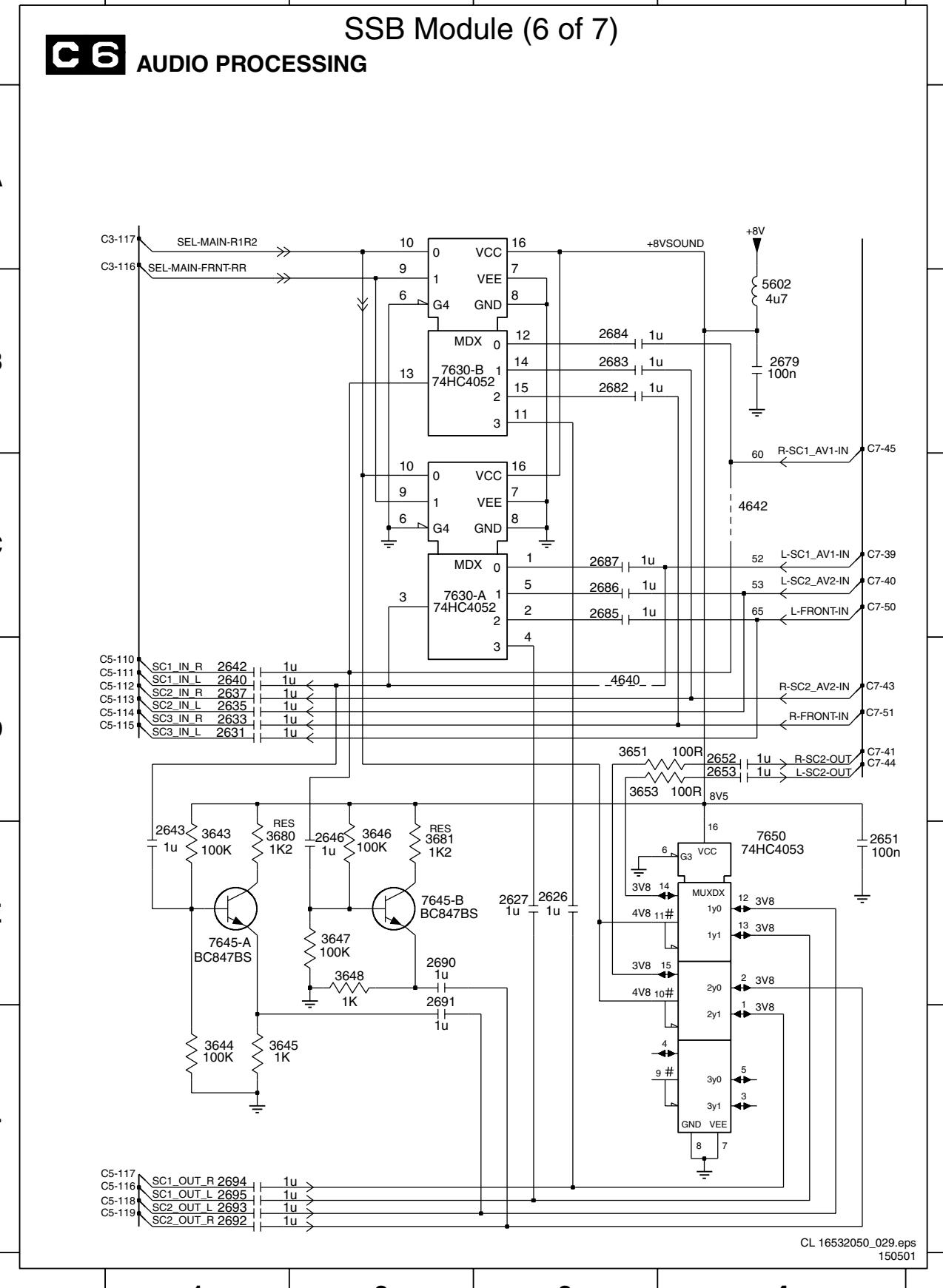


1630 F8
2601 F7
2602 G8
2606 A9
2607 A9
2610 B11
2611 B11
2612 B11
2613 B11
2614 C11
2616 E9
2617 E11
2618 E11
2619 E9
2620 E11
2621 E11
2622 C9
2624 C9
2625 C9
2628 C9
2629 C10
2632 E4
2634 E3
2636 E3
2638 E3
2639 E3
2641 E2
2655 F10
2656 F9
2657 F7
2661 F8
2662 C9
2663 B4
2664 B2
2665 B2
2666 B3
2667 B3
2675 F8
2678 F8
2678 C4
2680 C11
2681 C11
2686 C4
3601 A3
3602 B3
3606 A9
3616 E10
3618 E10
3619 E10
3621 E10
3665 B3
4643 E9
4644 E9
4684 C3
5601 F6
5625 C9
5665 B3
6605 B10
7651 A4

Analog Small Signal Board: Audio Processing

2626 E3	2637 D1	2651 E4	2683 B3	2690 E2	2695 F1	3647 E2	3681 E2	7630-B B2
2627 E3	2640 D1	2652 D4	2684 B3	2691 F2	3643 E1	3648 E2	4640 D3	7645-A E1
2631 D1	2642 D1	2653 D4	2685 C3	2692 F1	3644 F1	3651 D3	4642 C4	7645-B E2
2633 D1	2643 E1	2679 B4	2686 C3	2693 F1	3645 F1	3653 D3	5602 B4	7650 E4
2635 D1	2646 E2	2682 B3	2687 C3	2694 F1	3646 E2	3680 E1	7630-A C2	

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Analog Small Signal Board: SSB Connector

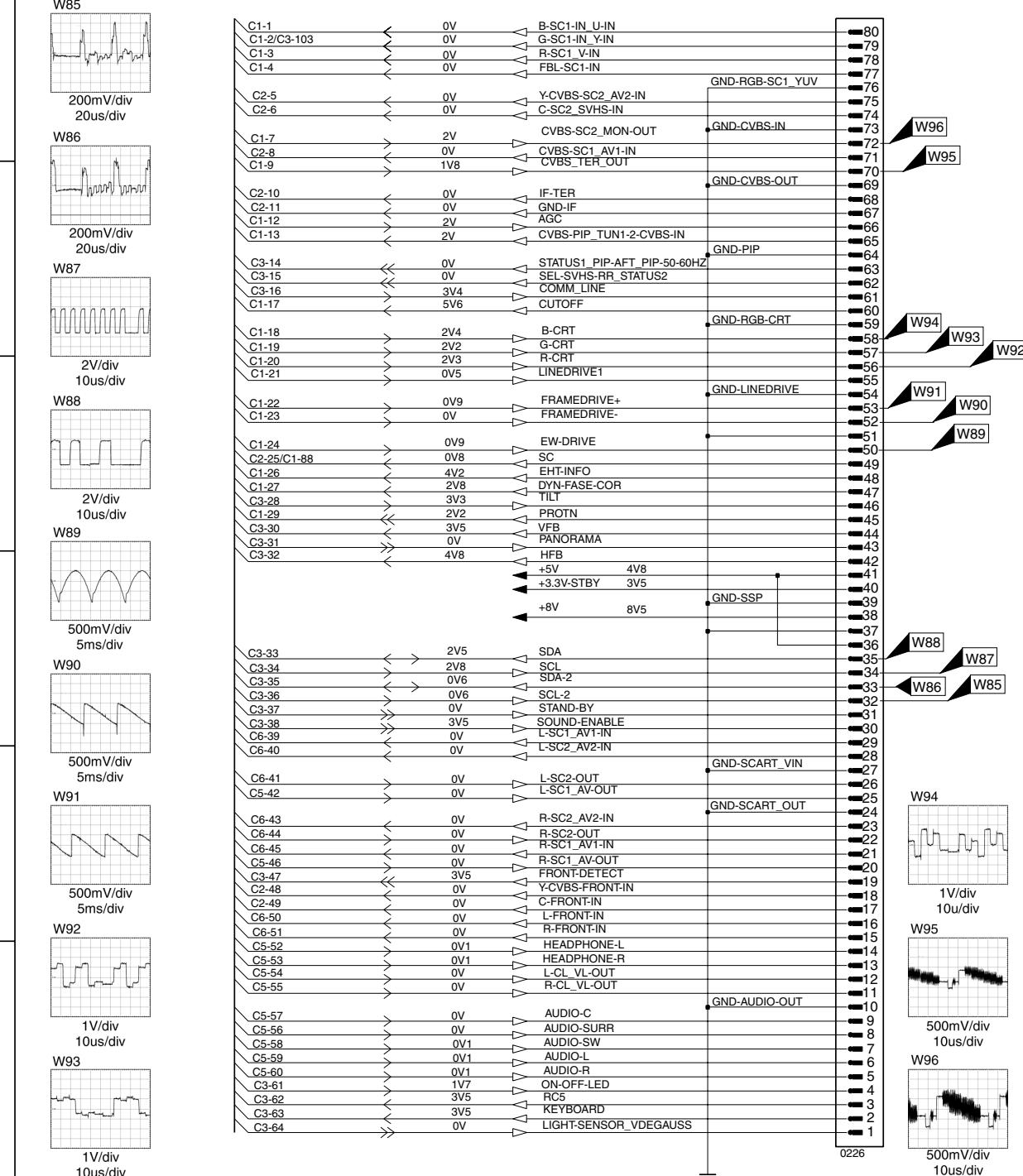
0226 F5

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SSB Module (7 of 7)

SSB_CONNECTOR

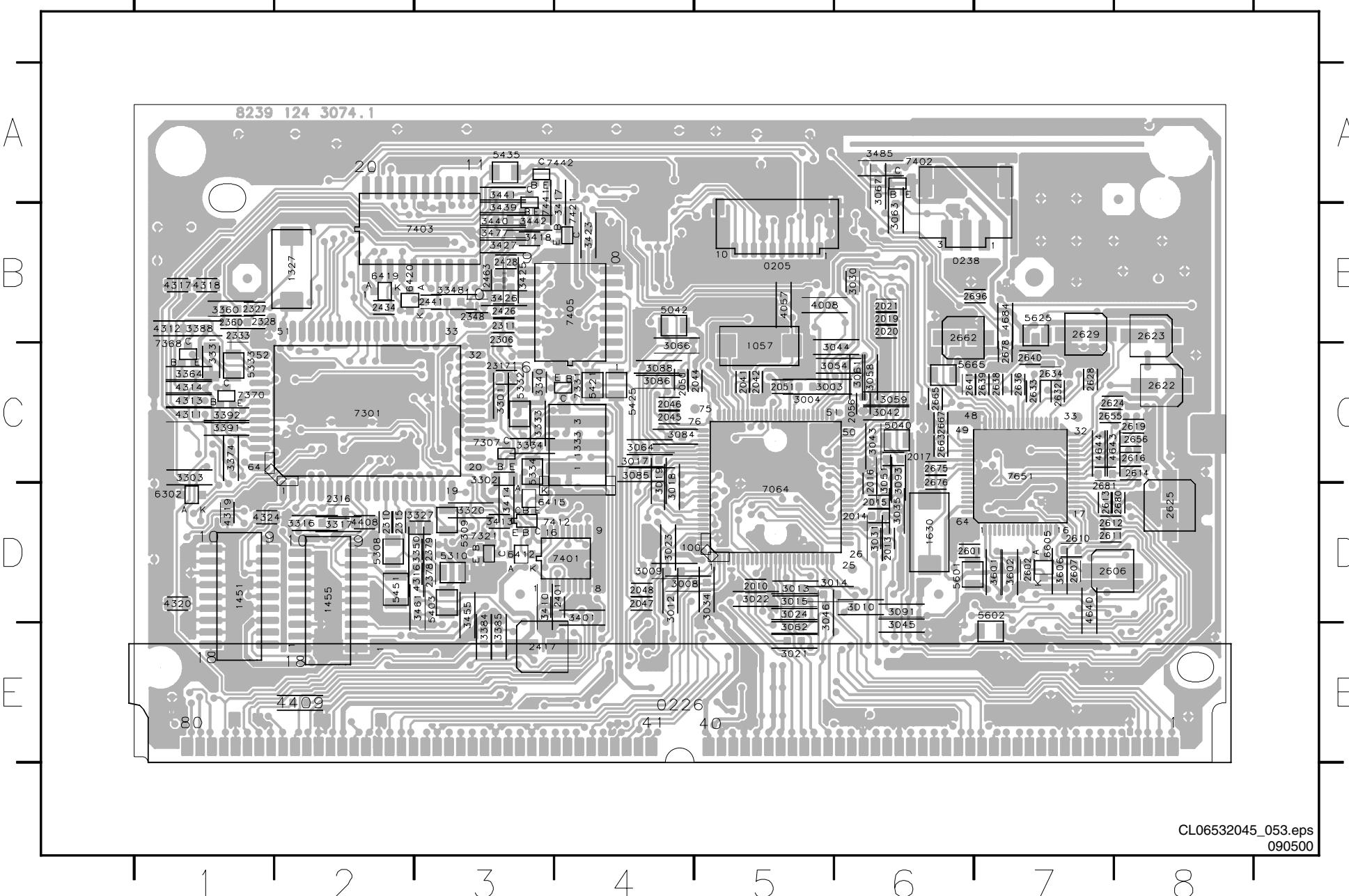
TO 0226 OF SSP TUNER A 4



Layout Analog Small Signal Board (Top View)

0205	B5	2047	D4	2441	B3	2638	C7	3014	D5	3062	E5	3350	D3	3455	D3	4644	C7	6420	B2
0226	B4	2048	D4	2463	D6	2640	C7	3018	D4	3066	C4	3364	C1	3477	B3	6605	D7		
0238	B6	2050	C4	2601	D7	2641	C7	3021	D4	3084	A6	3374	C1	3485	C6	7064	D5		
1057	C5	2051	C5	2602	D7	2645	C7	3024	D4	3091	C4	3388	C1	3492	B4	7301	C2		
1327	C24	2056	B3	2606	D7	2652	C7	3027	D4	3098	C4	3391	C1	3497	D3	7307	C3		
1333	C12	2059	B3	2607	D7	2655	C7	3029	D4	3101	C4	3394	C1	3501	C4	7321	C4		
1451	D11	2310	D2	2610	D7	2656	C7	3031	D4	3104	C4	3395	C1	3504	B4	7331	C1		
1455	D12	2311	D2	2611	D7	2659	C7	3032	D4	3107	C4	3396	C1	3507	D3	7368	C1		
1630	D10	2314	B1	2613	D7	2662	C7	3034	D4	3109	C4	3397	C1	3509	D3	7370	C1		
2013	D15	2317	B1	2614	D7	2665	C7	3035	D4	3110	C4	3398	C1	3510	C3	7401	A6		
2014	D16	2327	B1	2615	D7	2667	C7	3036	D4	3112	C4	3399	C1	3512	B3	7402	B4		
2017	D19	2333	B1	2619	D7	2675	C7	3037	D4	3113	C4	3400	C1	3513	A4	7412	D4		
2020	D20	2338	B1	2622	D7	2678	C7	3038	D4	3114	C4	3401	C1	3514	D3	7421	B4		
2021	D21	2360	B1	2623	D7	2681	C7	3039	D4	3116	C4	3417	B3	7441	A3	7442	A4		
2041	D21	2379	D3	2624	D7	2684	C7	3040	D4	3117	C4	3418	B3	7451	D3	7651	C7		
2042	D24	2417	D4	2629	D7	2687	C7	3041	D4	3119	C4	3425	B3	7460	D1	7661	D2		
2044	D24	2426	D4	2632	D7	2690	C7	3042	D4	3120	C4	3427	B3	7462	D1	7671	C7		
2045	C4	2434	B2	2634	C7	2693	D5	3043	D4	3121	C4	3431	C1	4324	D6	7471	C6		
2046	C4	2434	B2	2636	C7	3013	D5	3061	C6	3348	B3	3442	B3	4643	B2	6419	D3		

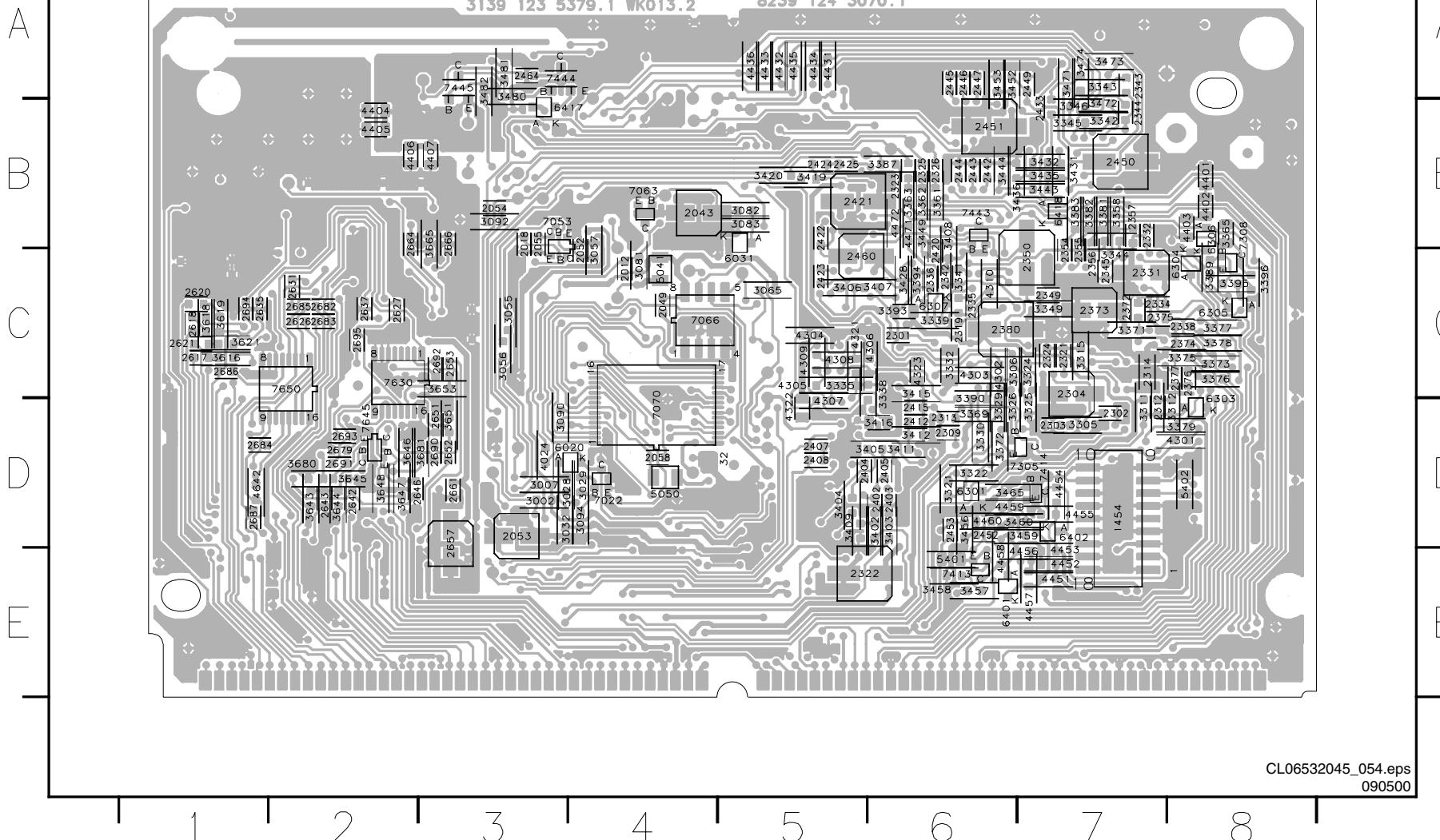
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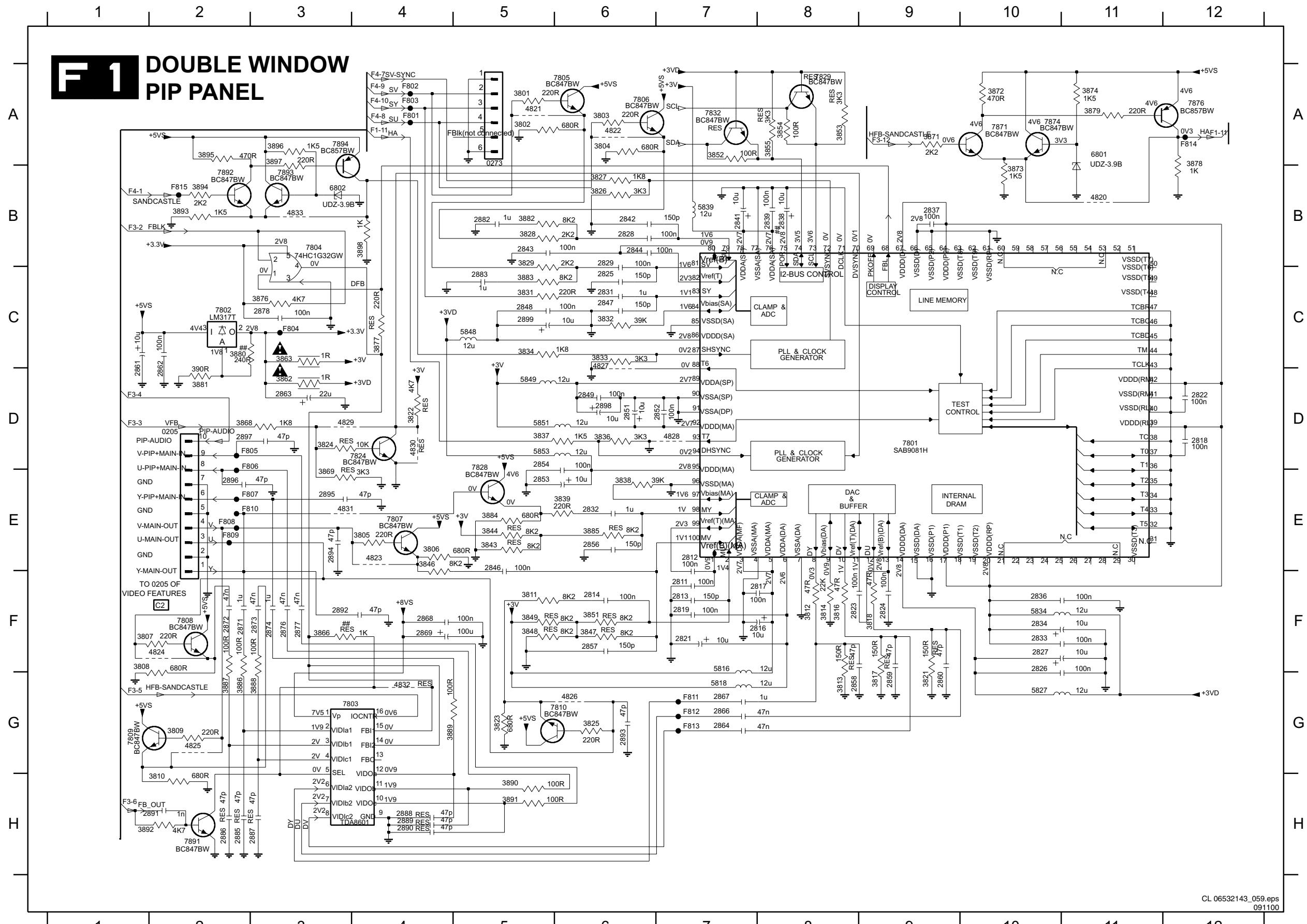
Layout Analog Small Signal Board (Bottom View)

1454	D7	2338	C8	2424	B5	2653	C3	3092	D3	3365	C6	3621	B2	6304
2012	D4	2342	C6	2425	B6	6666	C6	3094	D4	7128	B5	3643	B3	6305
2018	B3	2343	A7	2433	B7	6666	C7	3095	D5	7129	B7	3644	A3	6306
2004	C4	2344	B7	2442	B6	6666	C7	3106	D6	7129	B7	3645	A4	6401
2005	D3	2345	C7	2443	B6	6666	C7	3112	D7	7129	B7	3646	A4	6402
2005	D3	2349	C7	2444	A6	6666	C7	3114	D7	7129	B7	3647	A4	6417
2005	D3	2350	C7	2445	A6	6666	C7	3114	D7	7129	B7	3648	A4	7022
2005	D3	2354	C7	2446	A7	6666	C7	3114	D7	7129	B7	3649	A4	7053
2005	D3	2355	B7	2447	A7	6666	C7	3114	D7	7129	B7	3650	A4	7066
2005	D3	2356	C7	2449	B7	6666	C7	3114	D7	7129	B7	3651	A4	7300
2005	D3	2357	B7	2450	B7	6666	C7	3114	D7	7129	B7	3652	A4	7308
2005	D3	2372	C7	2451	B6	6666	C7	3114	D7	7129	B7	3653	A4	7413
2005	D3	2374	C7	2452	B6	6666	C7	3114	D7	7129	B7	3654	A4	7443
2005	D3	2375	B7	2453	B6	6666	C7	3114	D7	7129	B7	3655	A4	7444
2005	D3	2376	C6	2464	A1	6666	C1	3118	D7	7129	B7	3656	A4	7630
2005	D3	2380	C6	2464	C1	6666	C1	3118	D7	7129	B7	3657	A4	7645
2005	D3	2402	C6	2464	C1	6666	C1	3118	D7	7129	B7	3658	A4	7650
2005	D3	2404	C5	2464	C1	6666	C1	3118	D7	7129	B7	3659	A4	8000
2005	D3	2407	C5	2464	C1	6666	C1	3118	D7	7129	B7	3660	A4	8000
2005	D3	2412	C5	2464	C1	6666	C1	3118	D7	7129	B7	3661	A4	8000
2005	D3	2415	C5	2464	C1	6666	C1	3118	D7	7129	B7	3662	A4	8000
2005	D3	2420	C5	2464	C1	6666	C1	3118	D7	7129	B7	3663	A4	8000
2005	D3	2421	C5	2464	C1	6666	C1	3118	D7	7129	B7	3664	A4	8000
2005	D3	2422	C5	2464	C1	6666	C1	3118	D7	7129	B7	3665	A4	8000
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4056	B2	6304
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4057	B2	6305
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4058	B2	6306
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4059	B2	6307
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4060	B2	6401
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4061	B2	6402
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4062	B2	6417
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4063	B2	7022
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4064	B2	7053
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4065	B2	7066
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4066	B2	7300
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4067	B2	7308
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4068	B2	7413
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4069	B2	7443
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4070	B2	7630
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4071	B2	7645
2005	D3	2423	C5	2652	D3	3083	D6	3363	D8	3409	C1	4072	B2	7650

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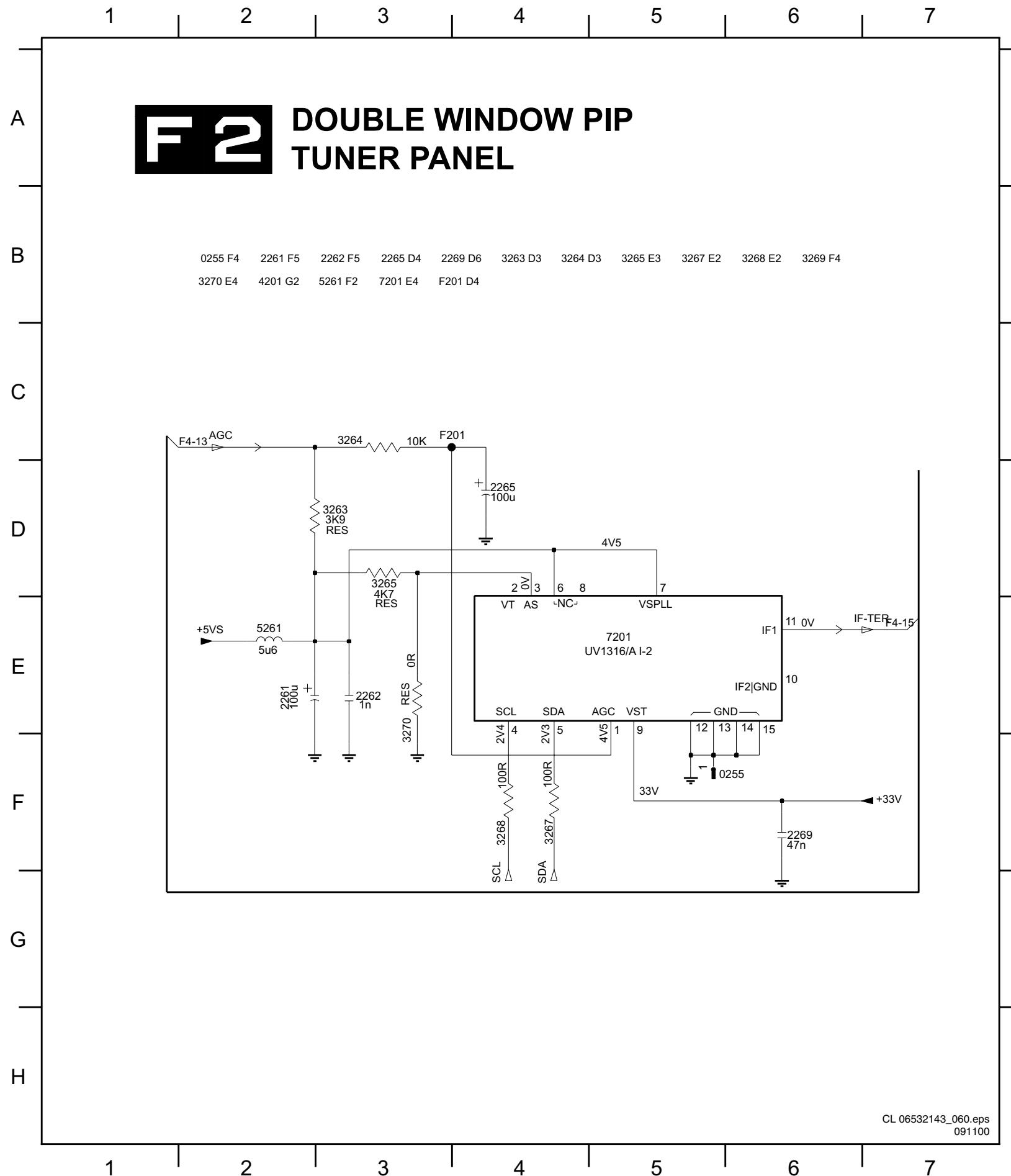


Double Window: PIP Panel

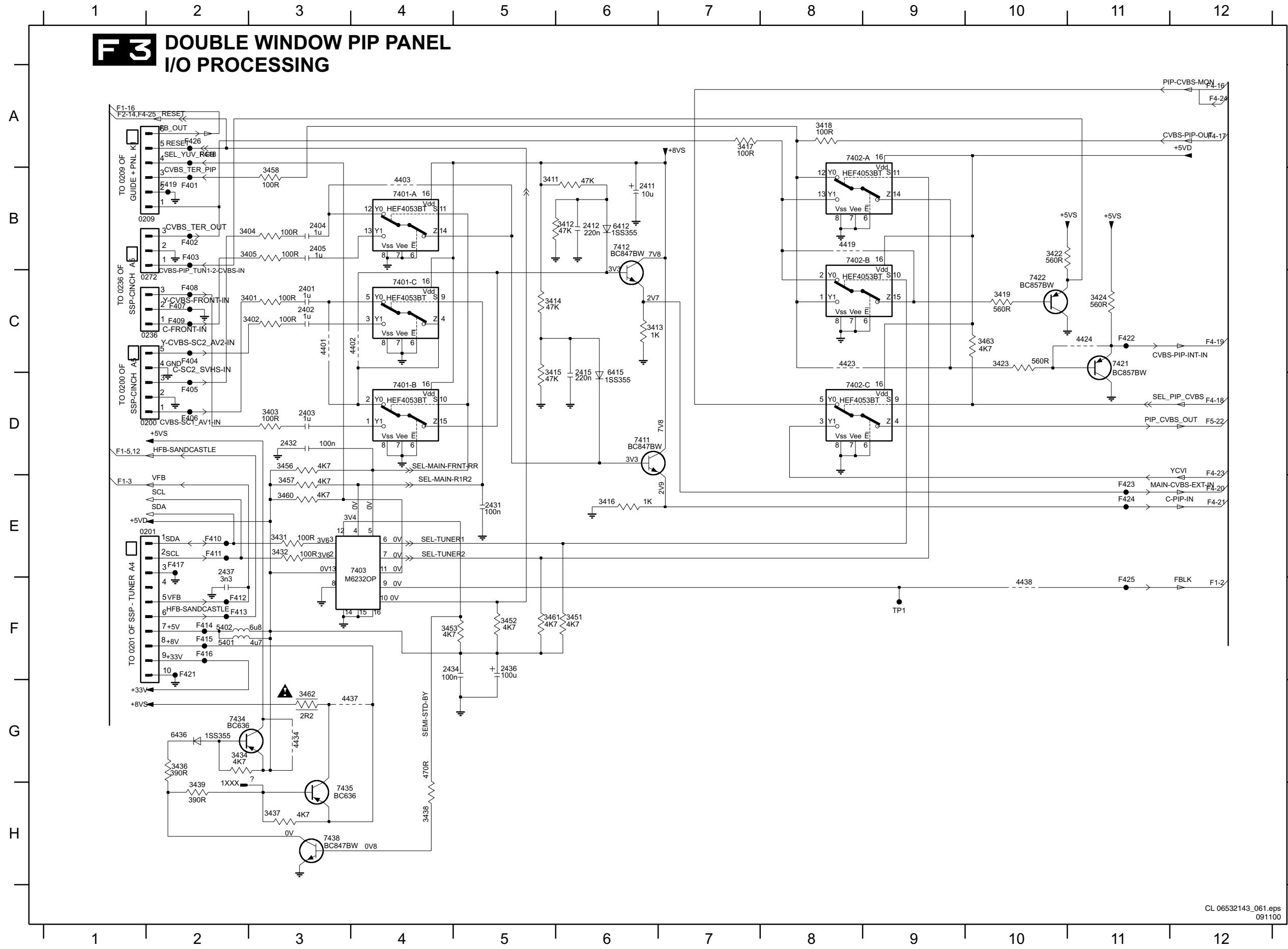


0205 D2	3833 C6	F810 E2
0273 B5	3834 C5	F811 G5
2811 F7	3836 D6	F812 G5
2812 F7	3837 D5	F813 G5
2813 F7	3838 E6	F814 A12
2814 F6	3839 E5	
2816 F8	3843 E5	
2817 F8	3844 E4	
2819 F7	3847 F6	
2821 F7	3848 F5	
2822 D12	3849 F5	
2823 F8	3851 F6	
2824 F9	3852 A7	
2825 C6	3853 A8	
2826 F9	3854 A8	
2827 F9	3855 A8	
2828 B6	3862 D3	
2829 B6	3863 C3	
2831 C6	3866 F3	
2832 E6	3868 D2	
2833 F10	3869 D3	
2834 F10	3871 A9	
2836 F10	3872 A10	
2837 B9	3873 B10	
2838 B8	3874 A11	
2839 B8	3876 C3	
2841 B7	3877 C4	
2842 B6	3878 B12	
2843 B5	3879 A11	
2844 B6	3880 C2	
2846 E5	3881 D2	
2847 C6	3882 B5	
2848 C5	3883 C5	
2849 D6	3884 E5	
2851 D6	3885 E6	
2852 D7	3886 G2	
2853 E5	3887 G2	
2854 D5	3888 G3	
2855 E6	3889 G4	
2856 F6	3890 G4	
2857 F6	3891 G5	
2858 G8	3892 H1	
2859 G8	3893 B2	
2860 G9	3894 B2	
2861 D1	3895 A2	
2862 D2	3896 A3	
2863 D3	3897 A3	
2864 G6	3898 B4	
2866 G6	3899 B4	
2867 G6	4820 B11	
2868 F4	4821 A5	
2869 F4	4822 A6	
2871 F2	4823 E3	
2872 F2	4824 F2	
2873 F3	4825 G2	
2874 F3	4826 G6	
2876 F3	4827 D6	
2877 F3	4828 D7	
2878 C3	4829 D3	
2882 B5	4830 D4	
2883 C5	4831 E3	
2885 H2	4832 G4	
2886 H2	4833 B3	
2887 H2	4834 F6	
2888 H4	5816 G6	
2889 H4	5827 F9	
2890 H4	5834 F10	
2891 H2	5839 B7	
2892 F3	5848 C5	
2893 H6	5849 D5	
2894 E3	5851 D5	
2895 E3	5853 D5	
2896 E2	6801 A11	
2897 D2	6802 B3	
2898 D6	7801 D9	
2899 C5	7802 C2	
3801 A5	7803 G3	
3802 A5	7804 B3	
3803 A6	7805 A5	
3804 A6	7806 A6	
3805 E3	7807 E3	
3806 E4	7808 F2	
3807 F2	7809 G2	
3808 F2	7810 H6	
3809 G1	7824 D3	
3810 G1	7828 E5	
3811 F5	7829 A8	
3812 F8	7832 A7	
3813 G8	7871 A10	
3814 F8	7874 A10	
3816 F8	7876 A12	
3817 G8	7891 H2	
3818 F9	7892 B2	
3821 G9	7893 B3	
3822 D4	7894 A3	
3823 H5	7895 A4	
3824 D3	7896 C3	
3825 H5	7897 D2	
3826 B6	7898 E2	
3827 B6	7899 F2	
3828 B5	7899 G2	
3829 B5	7899 H2	
3831 C5	7899 I2	
3832 C6	7899 J2	

Double Window: Tuner Panel

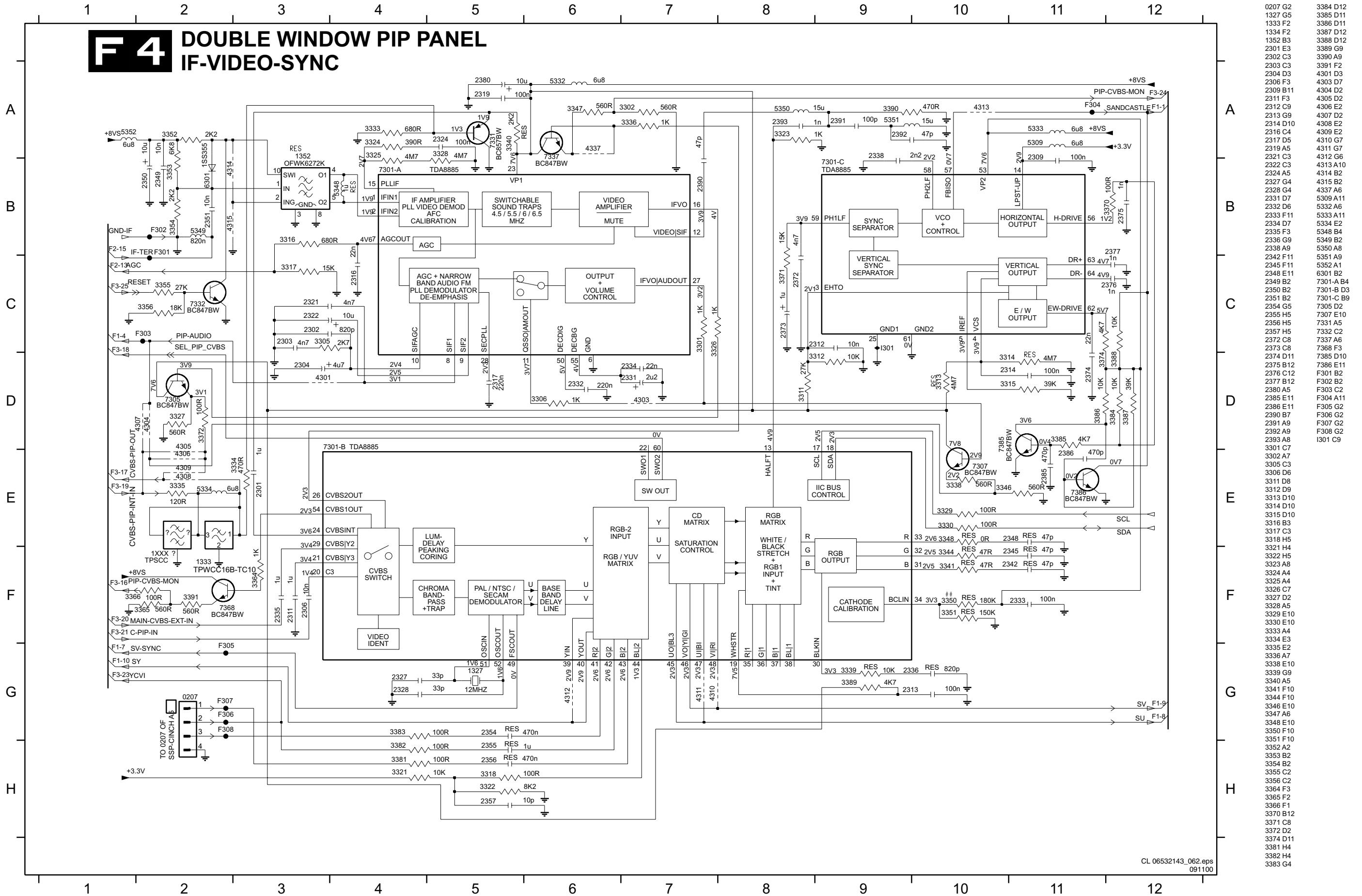


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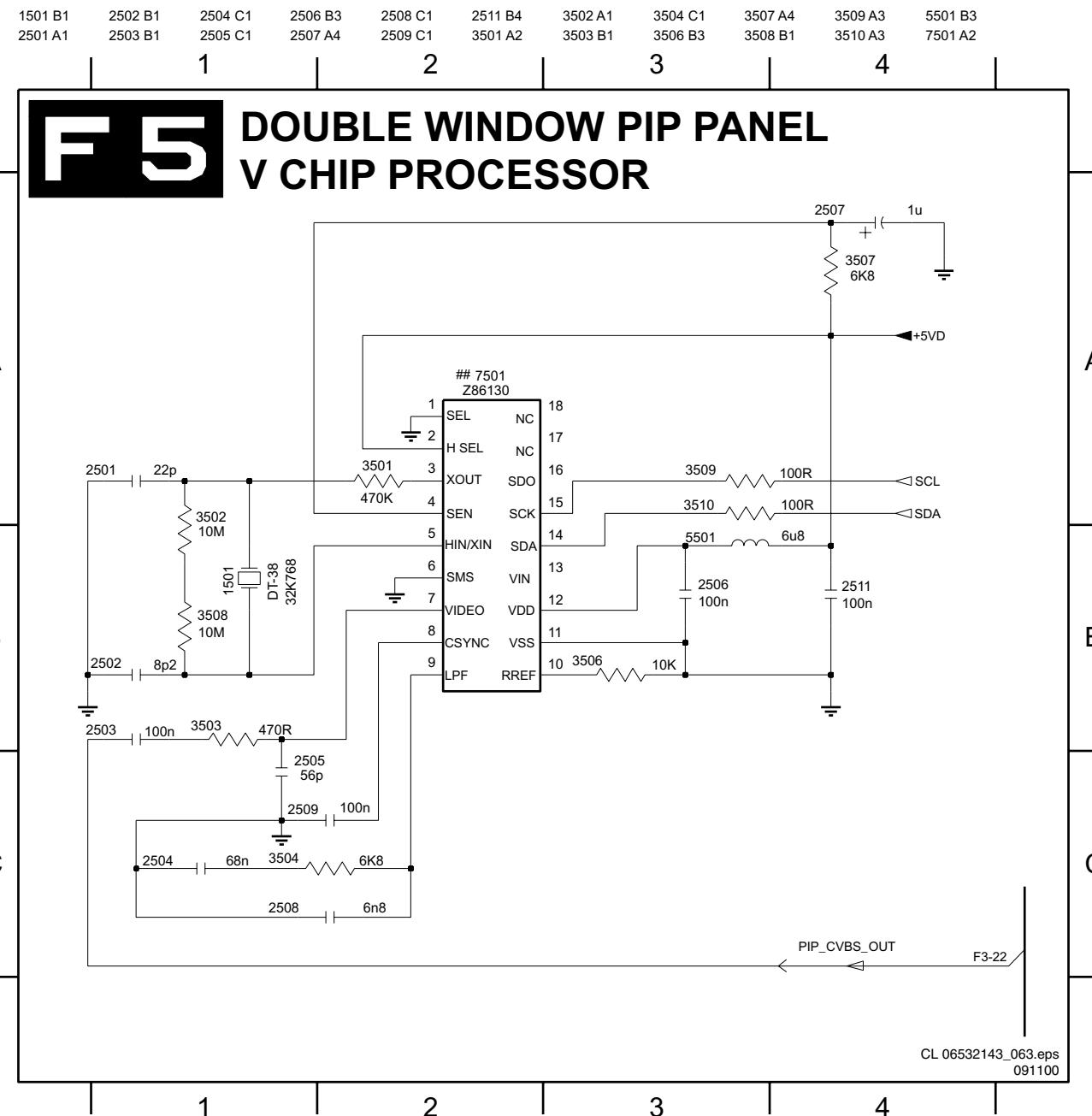
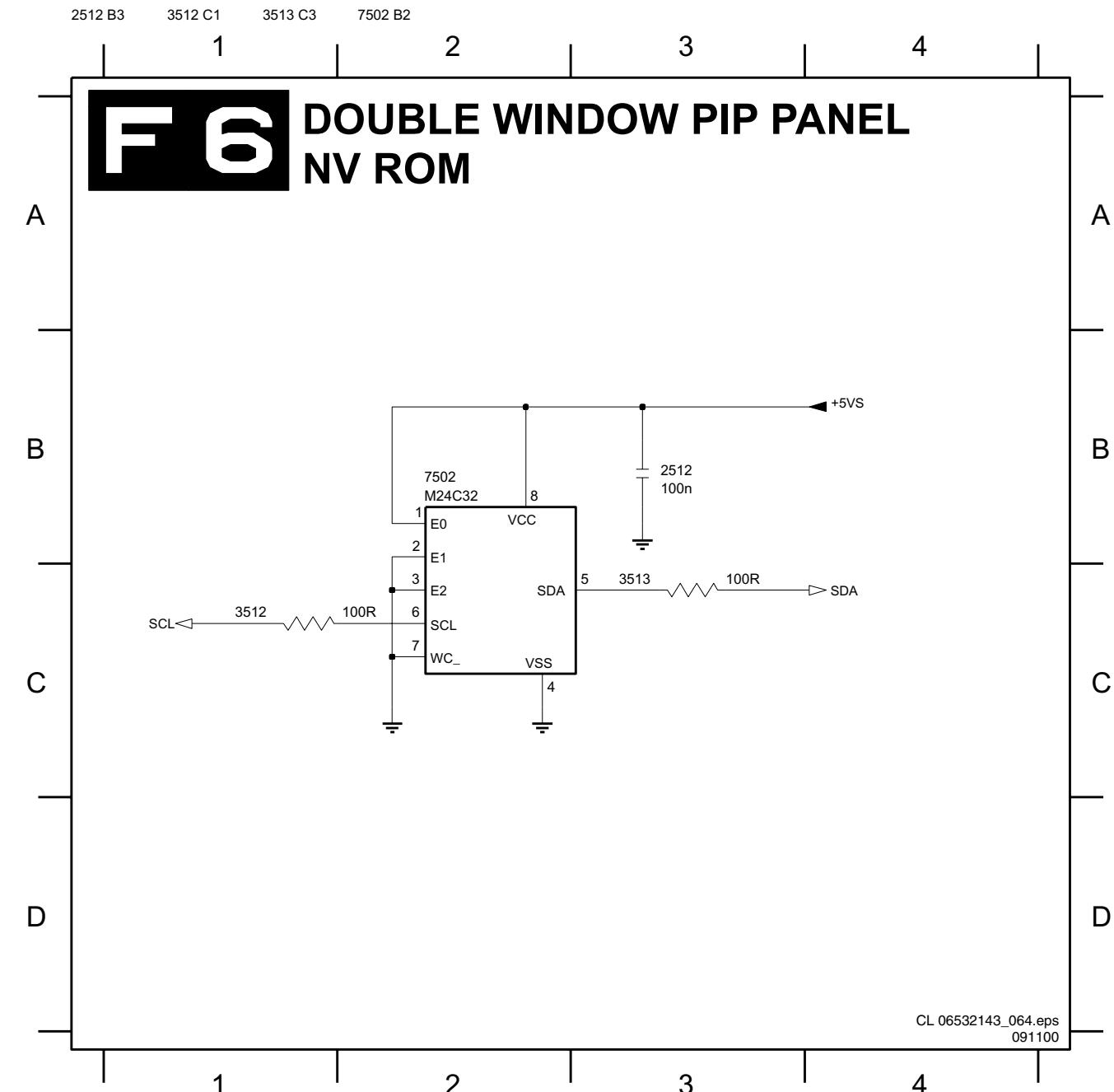


TP1 F9
0200 D2
0201 E2
0209 B2
0236 C2
0237 G2
0272 C1
2401 C3
2402 C3
2403 D3
2404 B3
2405 B3
2411 B6
2412 B6
2415 C6
2431 E5
2432 D3
2434 F4
2436 F5
2437 E2
3401 C3
3402 C3
3403 D3
3404 B2
3405 B2
3411 B5
3412 B6
3413 C6
3414 C5
3415 C5
3416 E6
3417 A7
3418 A8
3419 C10
3422 B10
3423 C10
3424 C11
3431 E3
3432 E3
3434 G2
3436 G2
3437 H3
3439 H2
3451 F6
3452 F5
3453 F4
3456 D3
3457 E3
3458 B3
3460 E3
3461 F5
3462 G3
3463 C10
4401 C3
4402 C4
4403 B4
4419 B8
4423 C8
4424 C11
4438 C11
F421 C11
F422 C11
F423 C11
F424 C11
F425 C11
F426 C11

Double Window: IF-Video-Sync



0207 G2	3384 D12
1327 G5	3385 D11
1333 F2	3386 D11
1334 F2	3387 D12
1352 B3	3388 D12
2301 E3	3389 G9
2302 C3	3390 A9
2303 C3	3391 F2
2304 D3	3391 D3
2306 F3	4304 D2
2309 B11	4305 D2
2311 F3	4306 E2
2312 C9	4307 D2
2313 G9	4308 E2
2314 D10	4309 E2
2316 C4	4310 G7
2317 D5	4311 G7
2319 A5	4312 G6
2321 C3	4313 A10
2322 C3	4314 B2
2324 A5	4315 B2
2327 G4	4328 G4
2331 D7	4330 A11
2332 D6	4332 A6
2333 F11	4333 A11
2334 D7	4334 E2
2335 F3	4335 B4
2336 G9	4336 B2
2338 A9	4338 A9
2342 F11	4339 A8
2345 F11	4351 A9
2348 E11	4352 A1
2349 B2	6301 B2
2350 B2	7301-A B4
2351 B2	7301-C B3
2354 G5	7305 D2
2355 H5	7307 E10
2356 H5	7331 A5
2357 H5	7332 C2
2372 C8	7337 A6
2373 C8	7368 F3
2374 D11	7385 D10
2375 B12	7386 E11
2376 C12	7301 B2
2377 B12	7302 B2
2380 A5	7303 C2
2385 E11	7304 A11
2386 E11	7305 G2
2390 B7	7306 G2
2391 A9	7307 G2
2392 A9	7308 G2
2393 A8	I301 C9

Double Window: V-Chip Processor**Double Window: NV-ROM**

Layout Double Window Panel (Top View)

1333	B3	2402	A3	2828	B5	2885	A4	3340	B3	3402	A3	3502	A1	3834	B5	4311	A2	4831	A5	7401	A3
2301	A3	2403	A3	2833	A5	2886	A4	3346	B3	3404	A4	3503	A1	3836	B5	4312	A2	4832	A5	7403	B3
2306	B3	2404	A3	2836	A5	2887	A4	3347	B3	3411	A3	3504	A1	3837	B5	4337	A2	4833	A5	7501	A1
2311	B3	2412	A3	2843	A5	2888	A4	3348	B3	3412	A3	3505	A1	3838	B5	4403	A2	4834	A5	7801	B5
2316	B2	2415	A2	2844	A5	2889	A4	3352	B2	3413	A3	3506	A1	3888	B4	4437	A2	4835	A4	7803	A4
2317	A3	2431	A3	2857	A5	2890	A4	3354	B1	3414	A3	3507	A1	3889	B4	4438	A2	4836	A4	7804	B4
2319	A3	2432	A3	2858	A5	2891	A5	3355	B1	3415	A3	3508	A1	3889	B4	4481	A2	4837	A4	7824	B4
2327	A2	2434	B3	2859	A5	2892	A5	3364	B2	3416	A2	3509	A1	3889	B4	4481	A2	4838	A4	7829	C4
2328	A2	2502	A1	2860	A5	2893	A5	3366	B2	3417	A2	3510	A1	3889	B4	4481	A2	4839	A4	7832	C5
2333	A2	2503	A1	2862	A5	2894	A5	3372	B2	3418	A2	3511	A1	3889	B4	4481	A2	4840	A4	7871	C6
2348	A2	2504	A1	2864	A5	2895	A5	3385	A2	3419	A2	3512	A1	3889	B4	4481	A2	4841	A4	7874	B6
2351	B2	2505	A1	2867	A5	2896	A5	3387	A2	3420	A2	3513	A1	3889	B4	4481	A2	4842	A4	7891	B6
2355	A2	2506	A1	2868	A5	2897	A5	3390	A2	3421	A2	3514	A1	3889	B4	4481	A2	4843	A4	7892	B6
2385	A1	2508	A1	2871	A5	2898	A5	3401	A3	3463	A2	3515	A1	3889	B4	4481	A2	4844	A4	7893	B6
2386	A2	2811	A5	2872	A5	2899	A5	3402	A3	3464	A2	3516	A1	3889	B4	4481	A2	4845	A4	7894	B5
2390	B2	2812	A5	2874	A5	2900	A5	3404	A3	3465	A2	3517	A1	3889	B4	4481	A2	4846	A4	7895	B5
2391	B2	2813	A5	2876	A5	2901	A5	3405	A3	3466	A2	3518	A1	3889	B4	4481	A2	4847	A4	7896	B5
2392	B2	2823	A5	2877	B4	2902	A5	3406	A3	3467	A2	3519	A1	3889	B4	4481	A2	4848	A4	7897	B5
2393	D3	2824	A5	2878	B4	2903	A5	3407	A3	3468	A2	3520	A1	3889	B4	4481	A2	4849	A4	7898	B5
2401	A3																				

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A

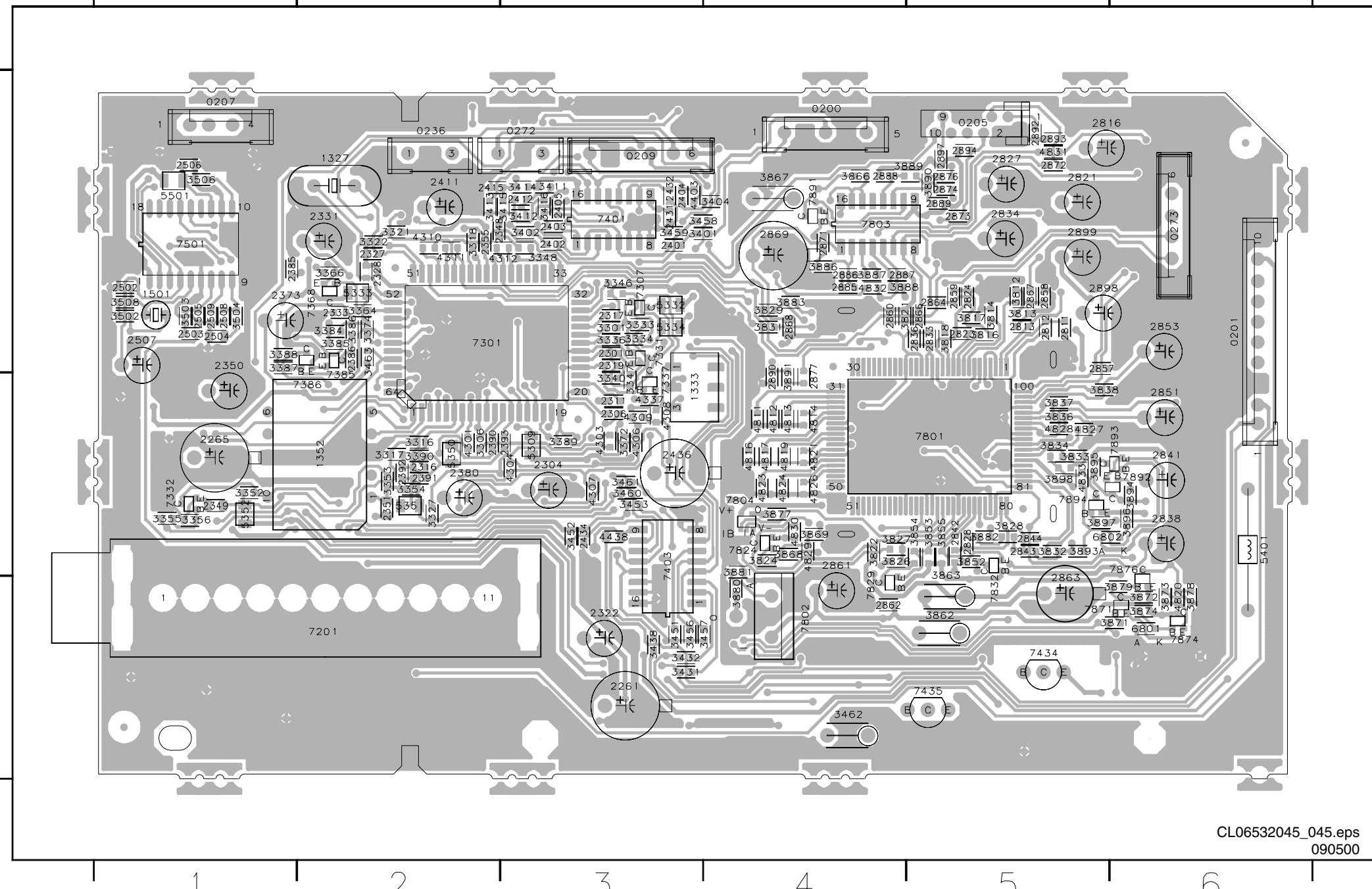
A

B

B

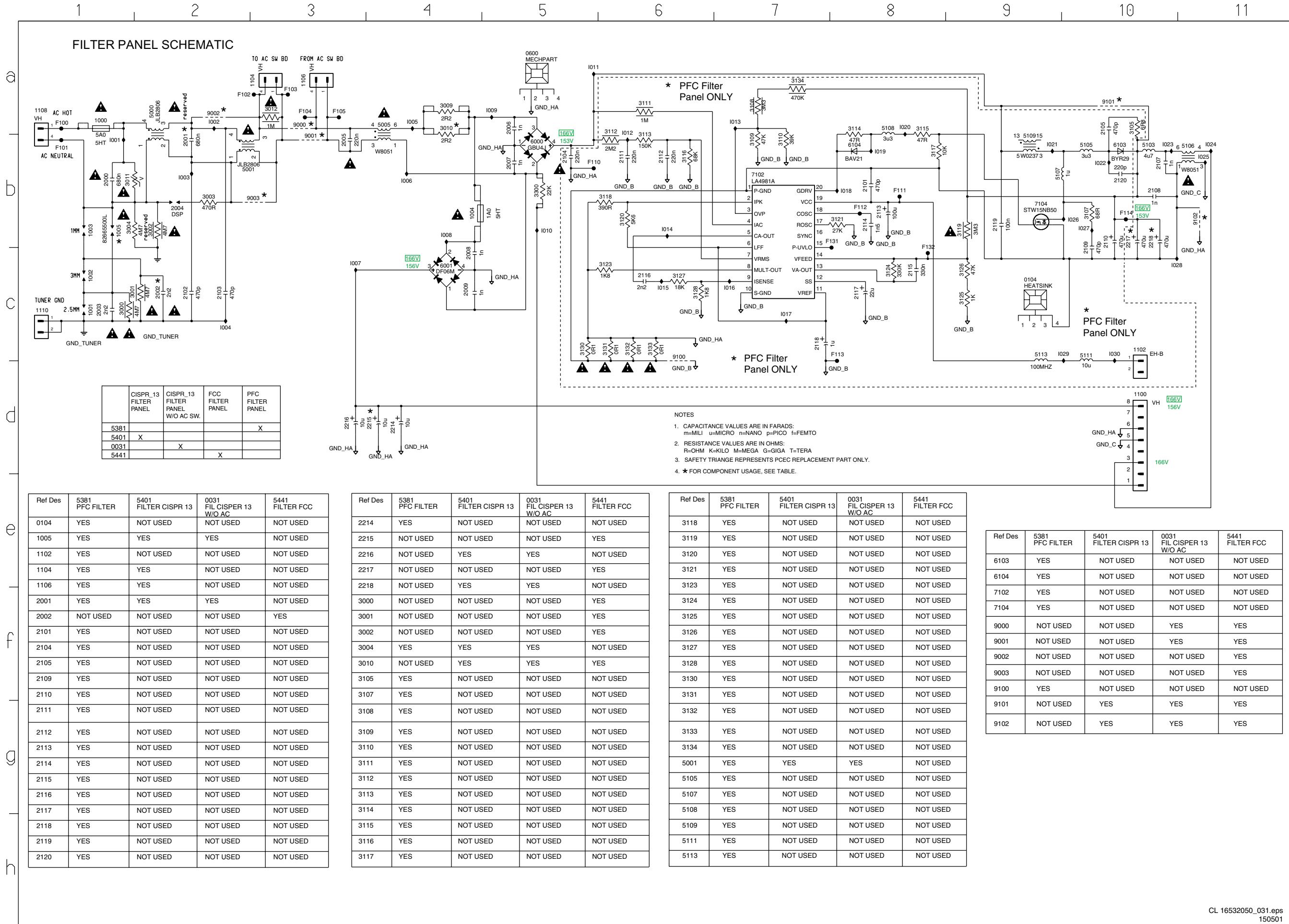
C

C



Layout Double Window Panel (Bottom View)

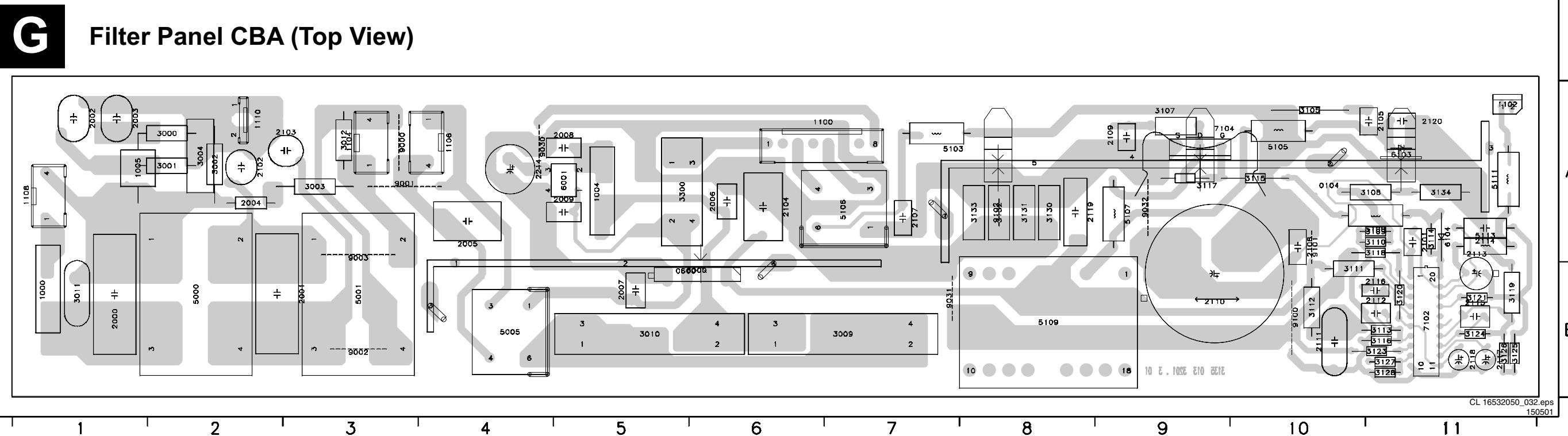
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2267	C6	2336	A4	2512	A6	2847	A2	3268	C6	3382	A4	3844	A1	4315	B5	5817	A2	7411	A4
2268	B5	2338	A5	2514	A2	2848	B2	3269	B4	3403	A5	3846	A1	4401	A4	5818	A2	7412	A4
2269	B4	2342	A4	2517	B2	2849	B4	3270	C6	3405	A4	3847	A1	4402	A4	5819	A2	7421	C4
2302	B4	2345	A4	2518	B2	2852	B4	3271	C6	3417	B4	3848	A1	4419	C3	5820	A2	7422	C3
2303	B4	2354	A4	2522	B2	2854	B4	3272	A4	3418	B4	3849	A1	4423	C3	5821	B2	7438	C3
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2312	B5	2357	A5	2522	B2	2857	B4	3274	A4	3422	C4	3851	A6	4437	C2	5823	B1	7502	A1
2313	B4	2372	A5	2522	B2	2858	B4	3275	A4	3423	C4	3852	A1	4438	C1	5824	B1	7828	A1
2314	A5	2374	B5	2522	B2	2859	B2	3276	A4	3424	C3	3853	A1	4439	B5	5825	B5		
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						3368	B4	3368	A4	3486	C4	3898	A6	4497	B5	5870	A2		
						3369	B4	3369	A4	3487	C4	3899	A6	4498	B5	5871	A2		
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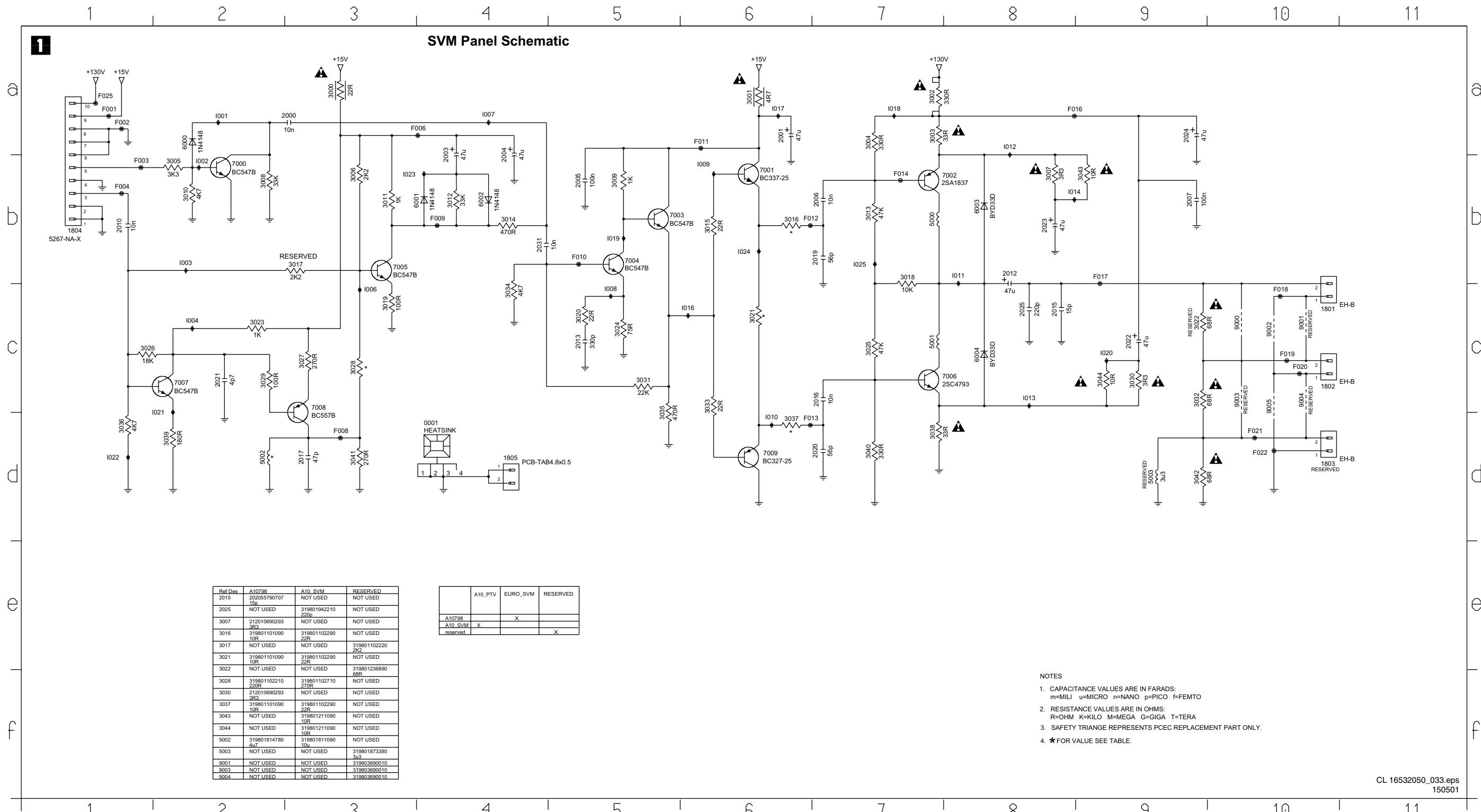
PFC Filter Panel

Layout PFC Filter Panel

0104 A9	1102 A11	2001 B2	2007 B5	2104 A6	2111 B10	2117 B11	3001 A2	3001 B1	3110 A11	3116 B11	3123 B11	3130 A8	5000 B2	5107 A9	6001 A5	9001 A3	9100 B10
0600 B5	1104 A3	2002 A1	2008 A5	2105 A11	2112 B11	2118 B11	3002 A2	3012 A3	3111 B10	3117 A9	3124 B11	3131 A8	5001 B3	5108 A11	6103 A11	9002 B3	9101 A10
1000 B1	1106 A4	2003 A1	2009 A5	2107 A7	2113 B11	2119 A8	3003 A3	3105 A10	3112 B10	3118 A11	3125 B11	3132 A8	5005 B4	5109 B8	6104 A11	9003 A3	9102 A8
1004 A5	1108 A1	2004 A2	2101 A11	2108 A10	2114 A11	2120 A11	3004 A2	3107 A9	3113 B11	3119 B11	3126 B11	3133 A8	5103 A7	5111 A11	7102 B11	9030 A4	
1005 A1	1110 A2	2005 A4	2102 A2	2109 A9	2115 B11	2214 A4	3009 B7	3108 A11	3114 A11	3120 B11	3127 B11	3134 A11	5105 A10	5113 A11	7104 A9	9031 B7	
1100 A6	2000 B1	2006 A6	2103 A3	2110 B9	2116 B11	3000 A2	3010 B5	3109 A11	3115 A10	3121 B11	3128 B11	3300 A5	5106 A7	6000 B6	9000 A3	9032 A9	

1 2 3 4 5 6 7 8 9 10 11



SVM Panel

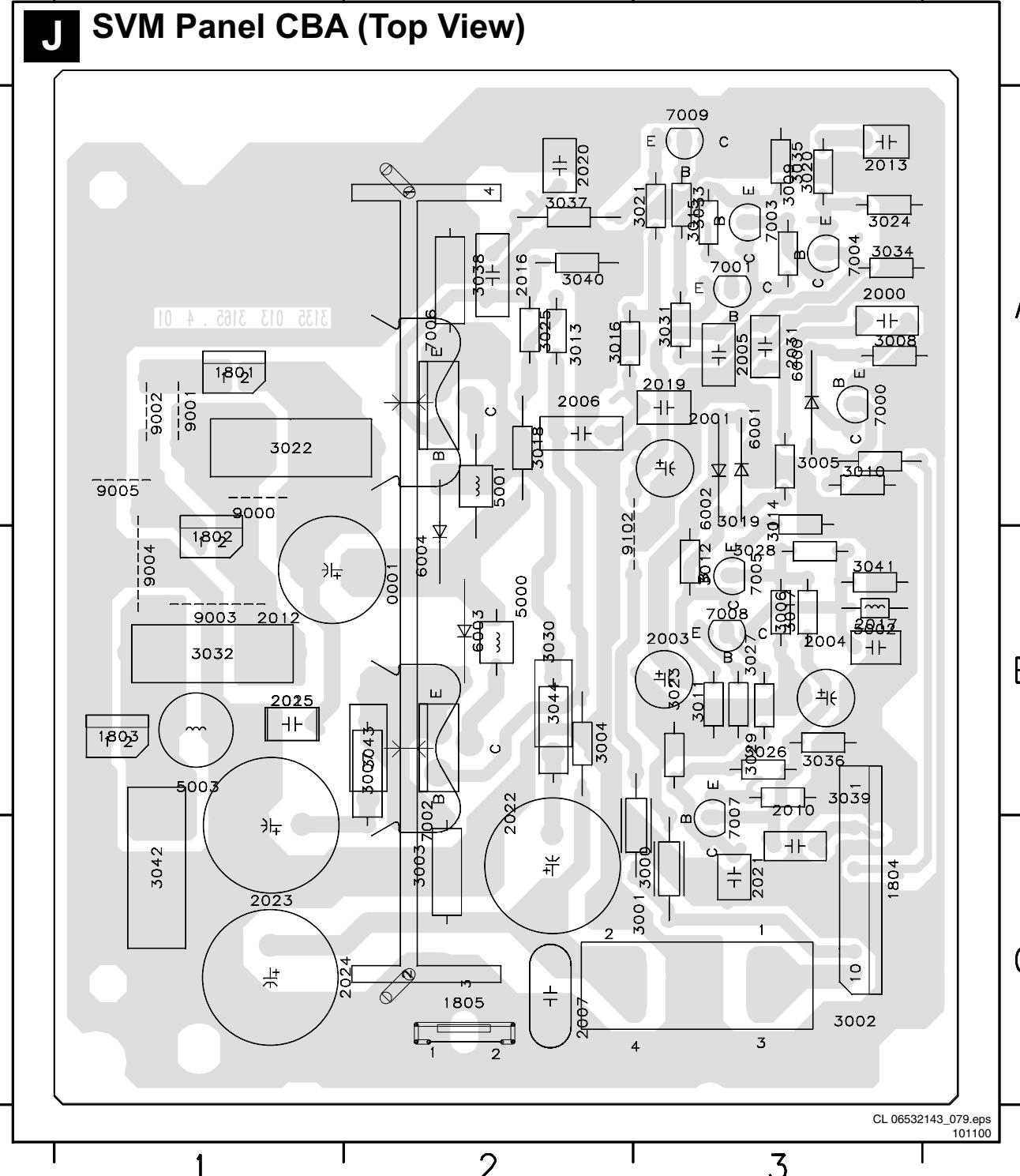
Layout SVM Panel

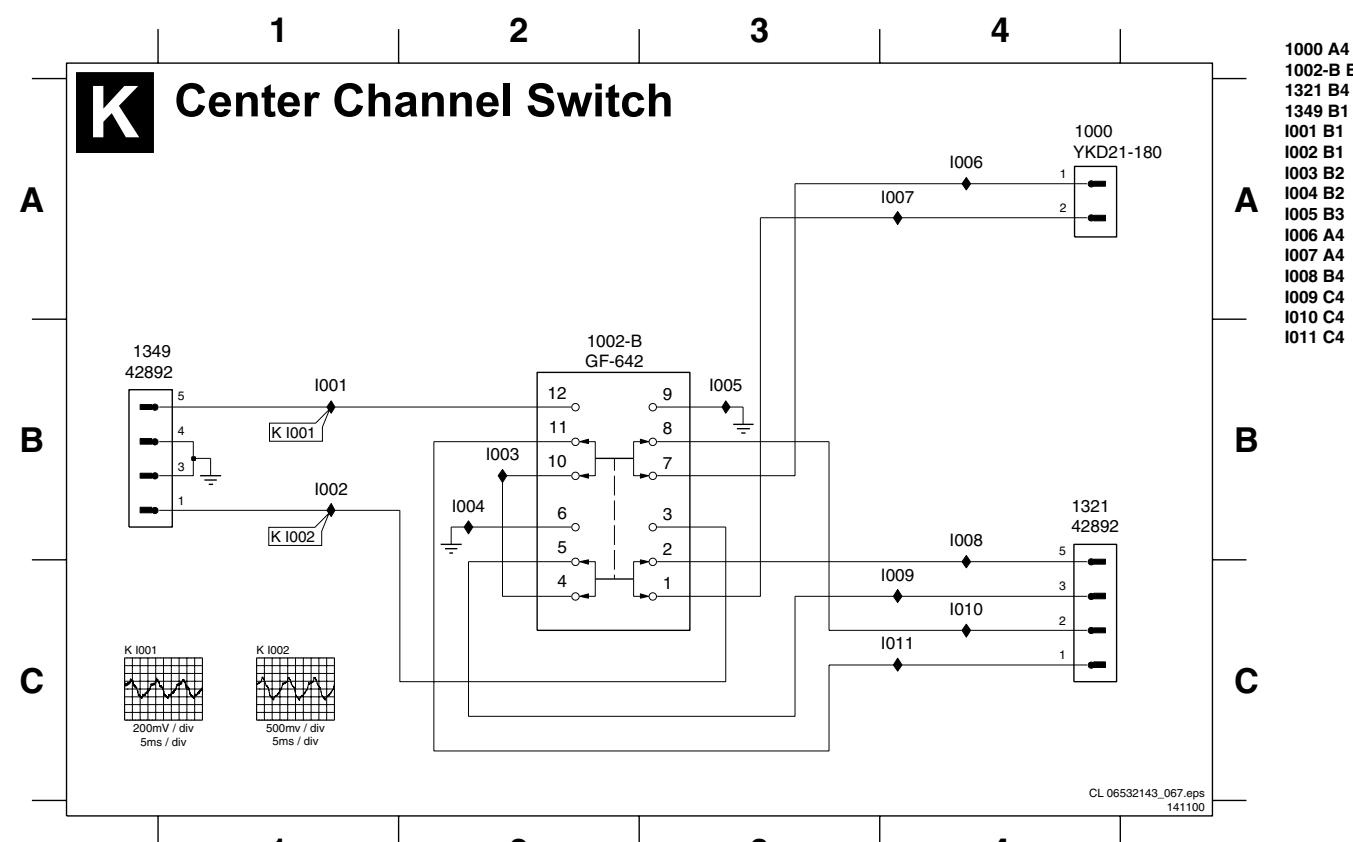
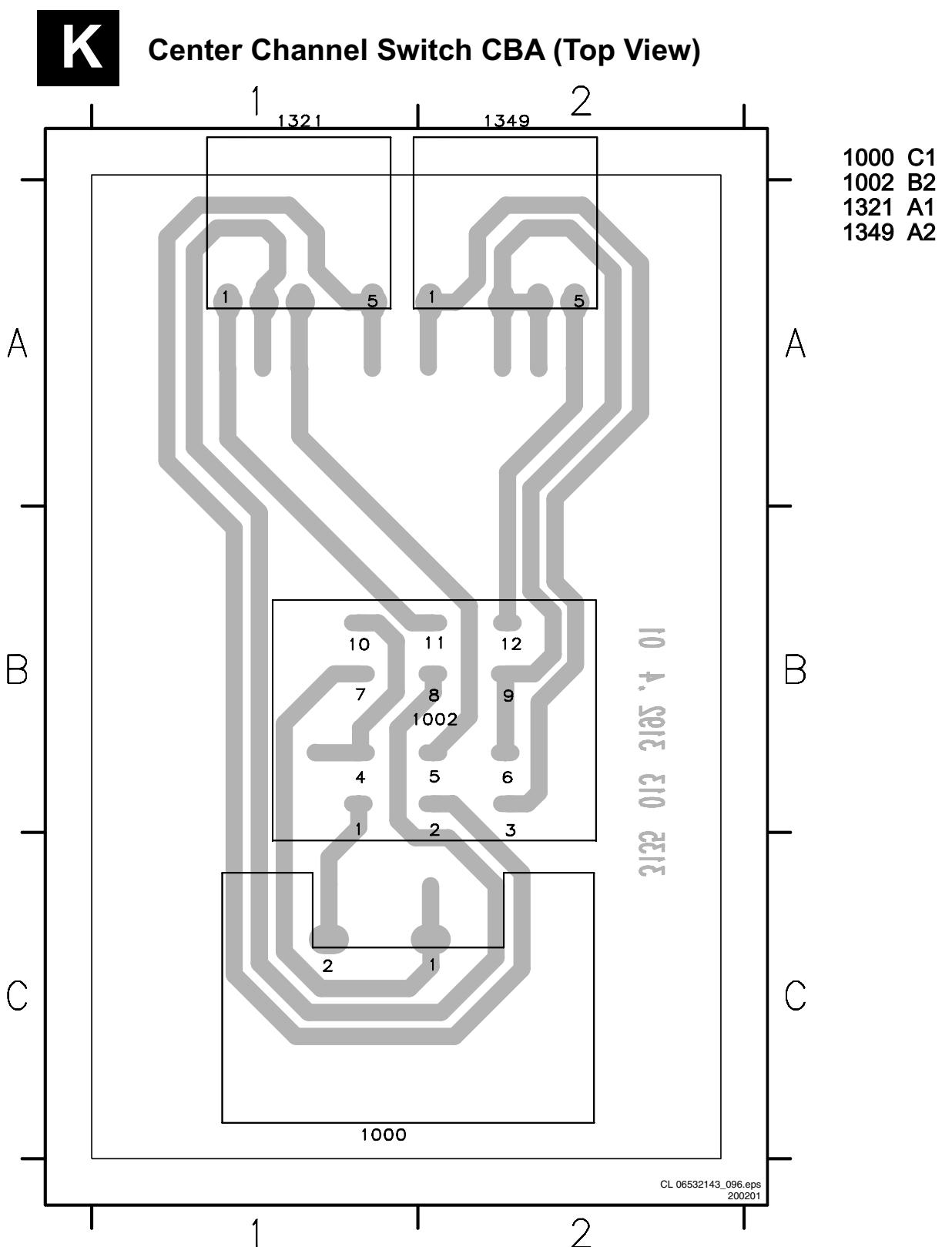
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1801 A1	2007 C2	2023 C1	3007 B2	3018 A2	3029 B3	3040 A2	6002 A3	7008 B3
1802 B1	2010 C3	2024 C1	3008 A3	3019 A3	3030 B2	3041 B3	6003 B2	7009 A3
1803 B1	2012 B1	2025 B1	3009 A3	3020 A3	3031 A3	3042 C1	6004 B2	9000 A1
1804 C3	2013 A3	2031 A3	3010 A3	3021 A3	3032 B1	3043 B2	7000 A3	9001 A1
1805 C2	2015 B1	3000 C3	3011 B3	3022 A1	3033 A3	3044 B2	7001 A3	9002 A1
2000 A3	2016 A2	3001 C3	3012 B3	3023 B3	3034 A3	5000 B2	7002 B2	9003 B1
2001 A3	2017 B3	3002 C3	3013 A2	3024 A3	3035 A3	5001 A2	7003 A3	9004 B1
2003 B3	2019 A3	3003 C2	3014 A3	3025 A2	3036 B3	5002 B3	7004 A3	9005 A1
2004 B3	2020 A2	3004 B2	3015 A3	3026 B3	3037 A2	5003 B1	7005 B3	9102 B3
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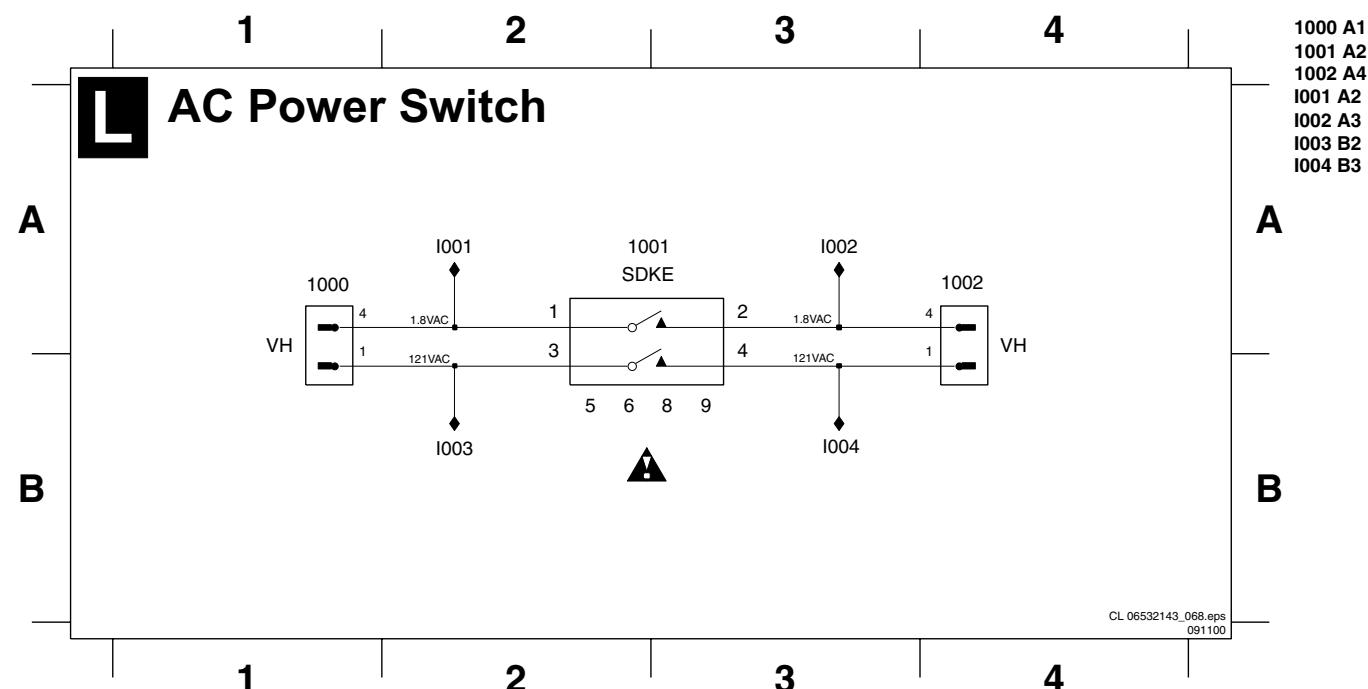
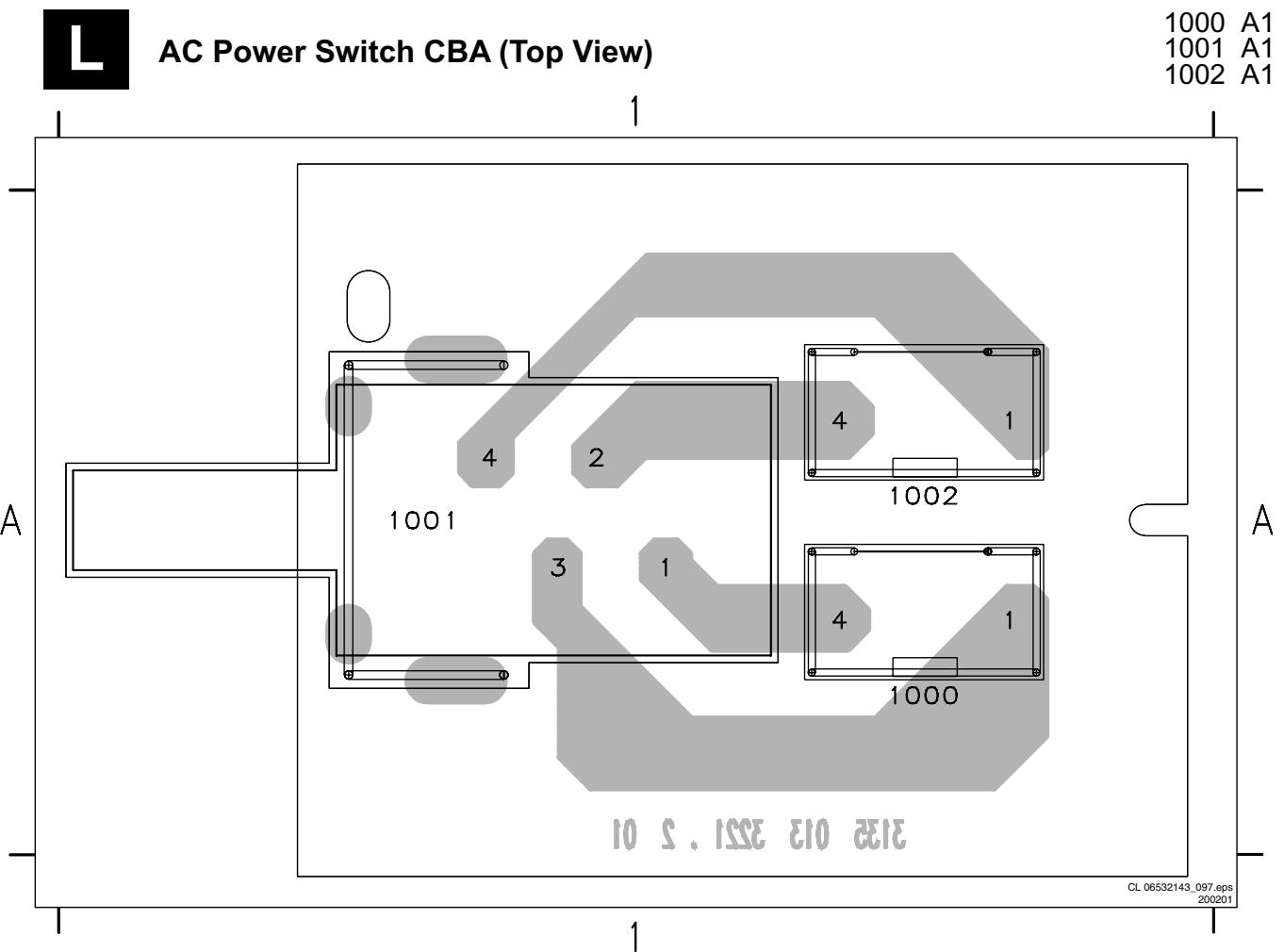
1

2

3



Centre Channel Switch**Layout Center Channel Switch**

AC Power Switch**Layout AC Power Switch**

Local Control

1

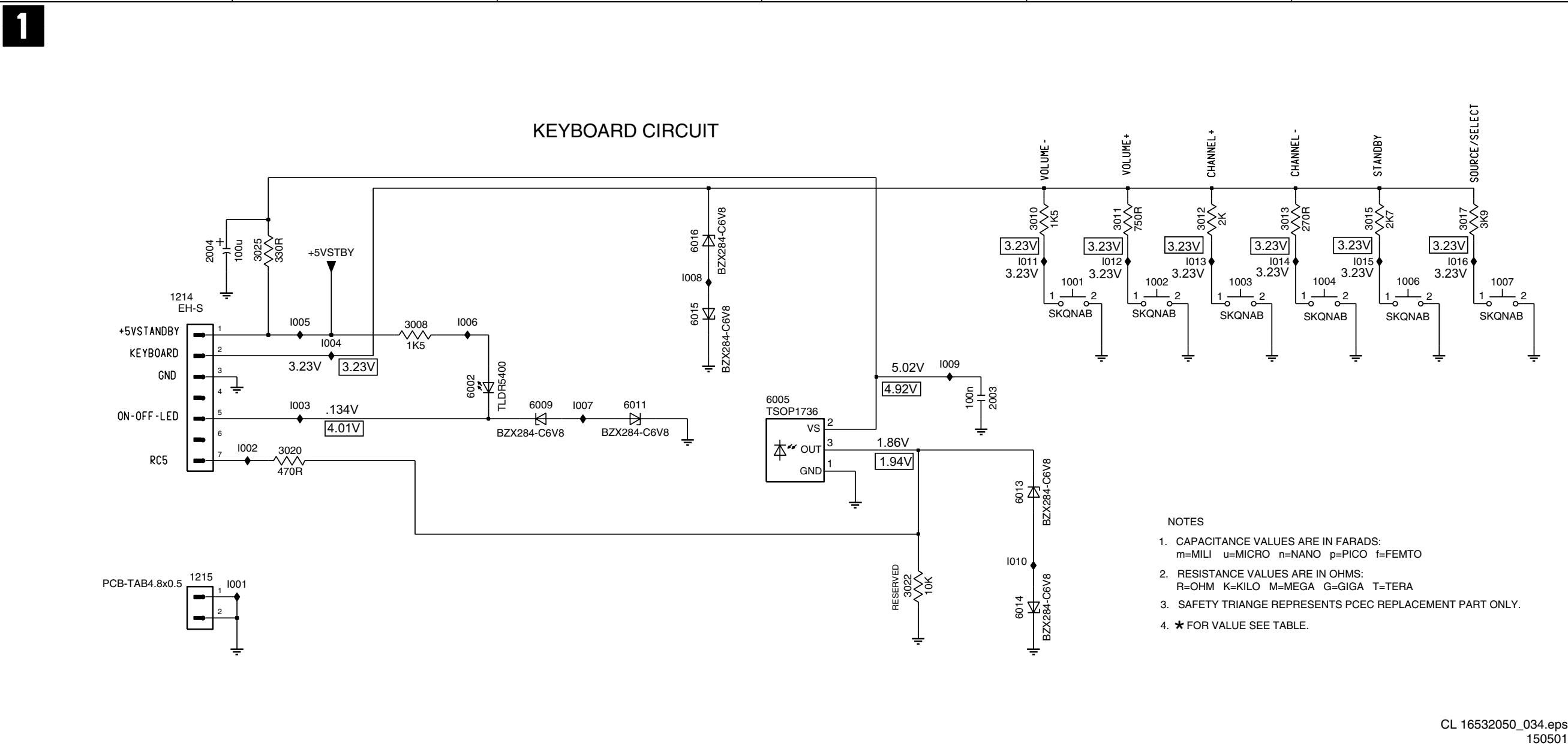
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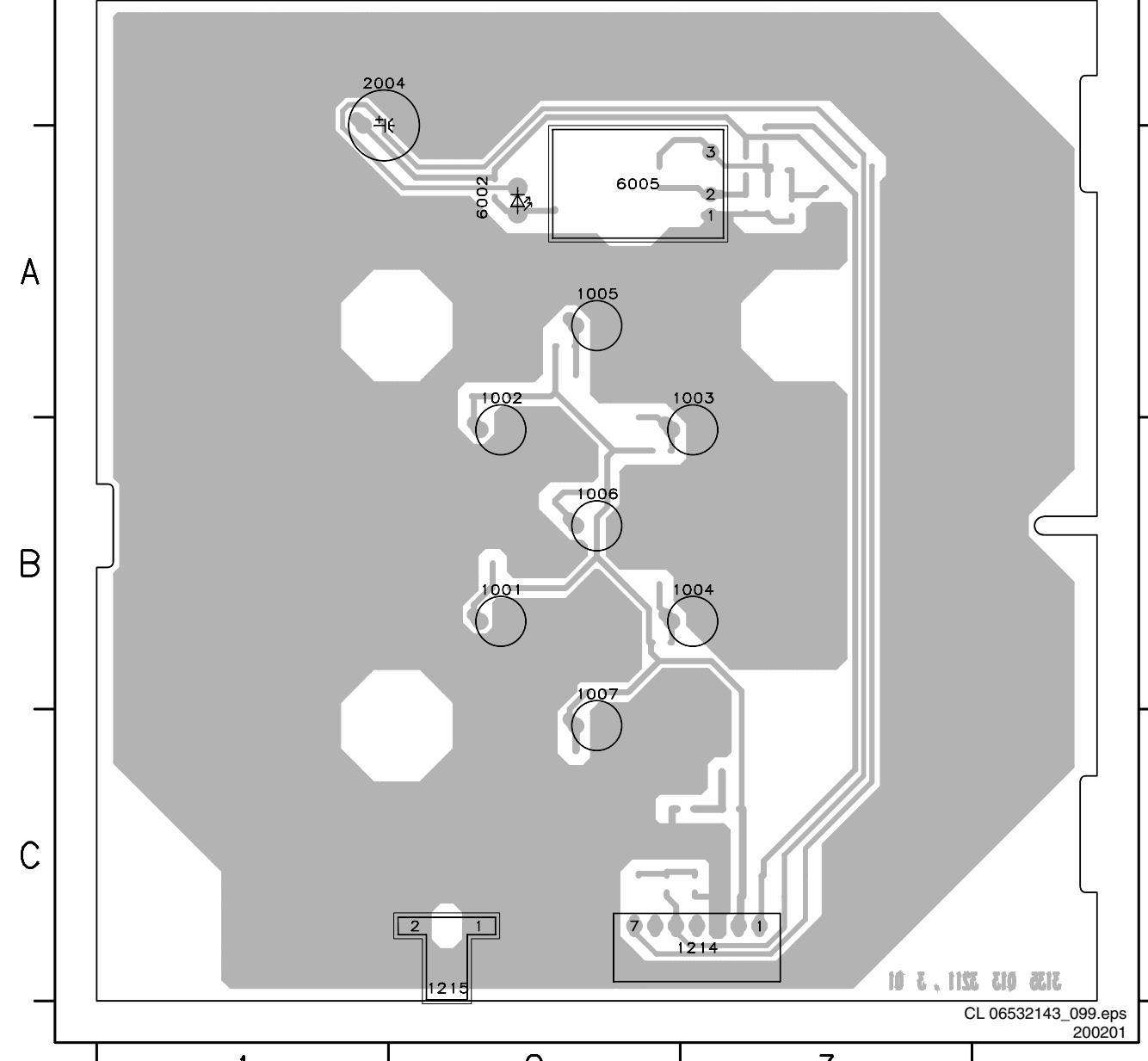
6



Layout Local Control (Top View)

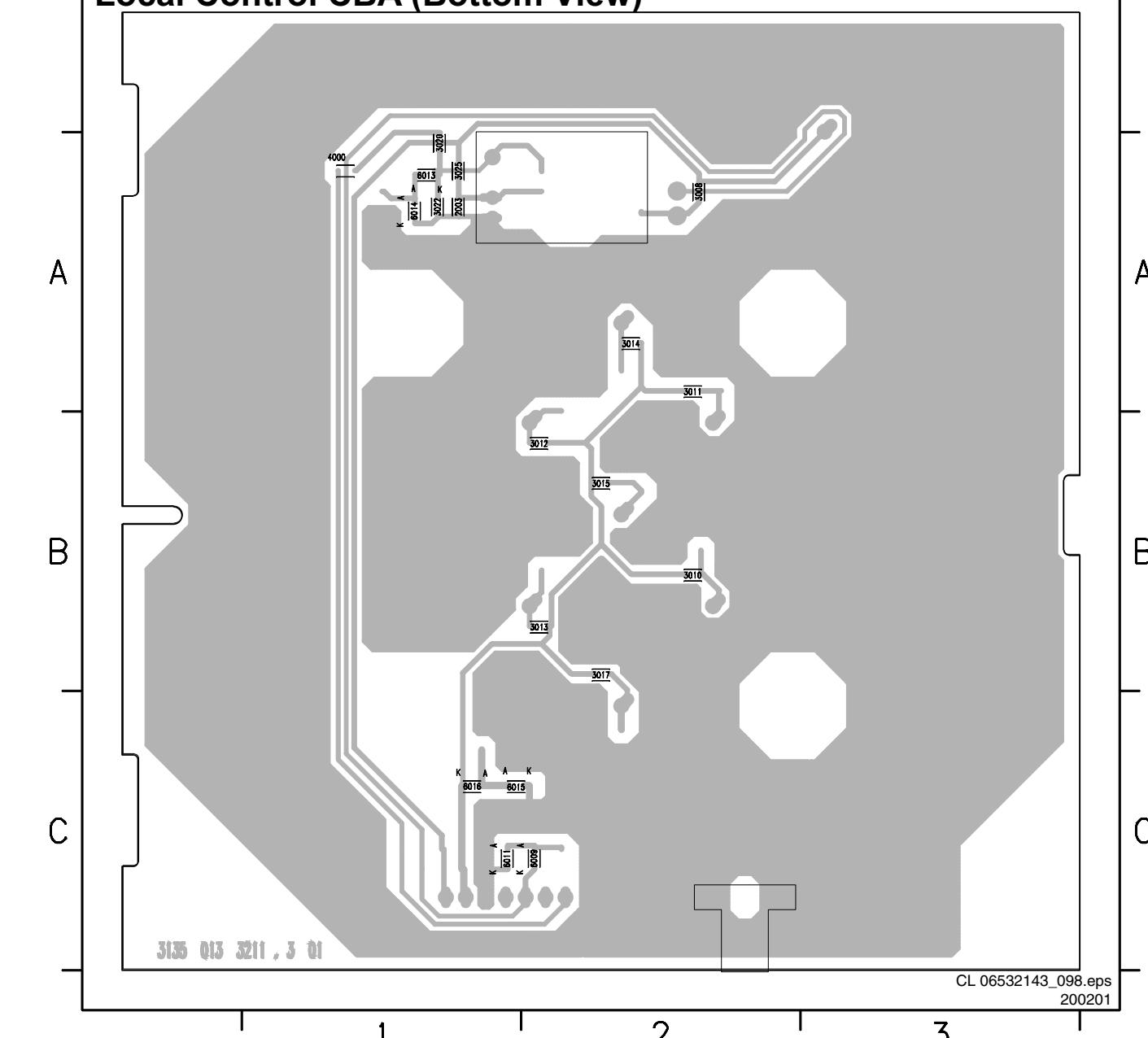
M	1001 B2	1005 A2	1215 C2
	1002 B2	1006 B2	2004 A1
	1003 B3	1007 C2	6002 A2
	1004 B3	1214 C3	6005 A2

1 2 3

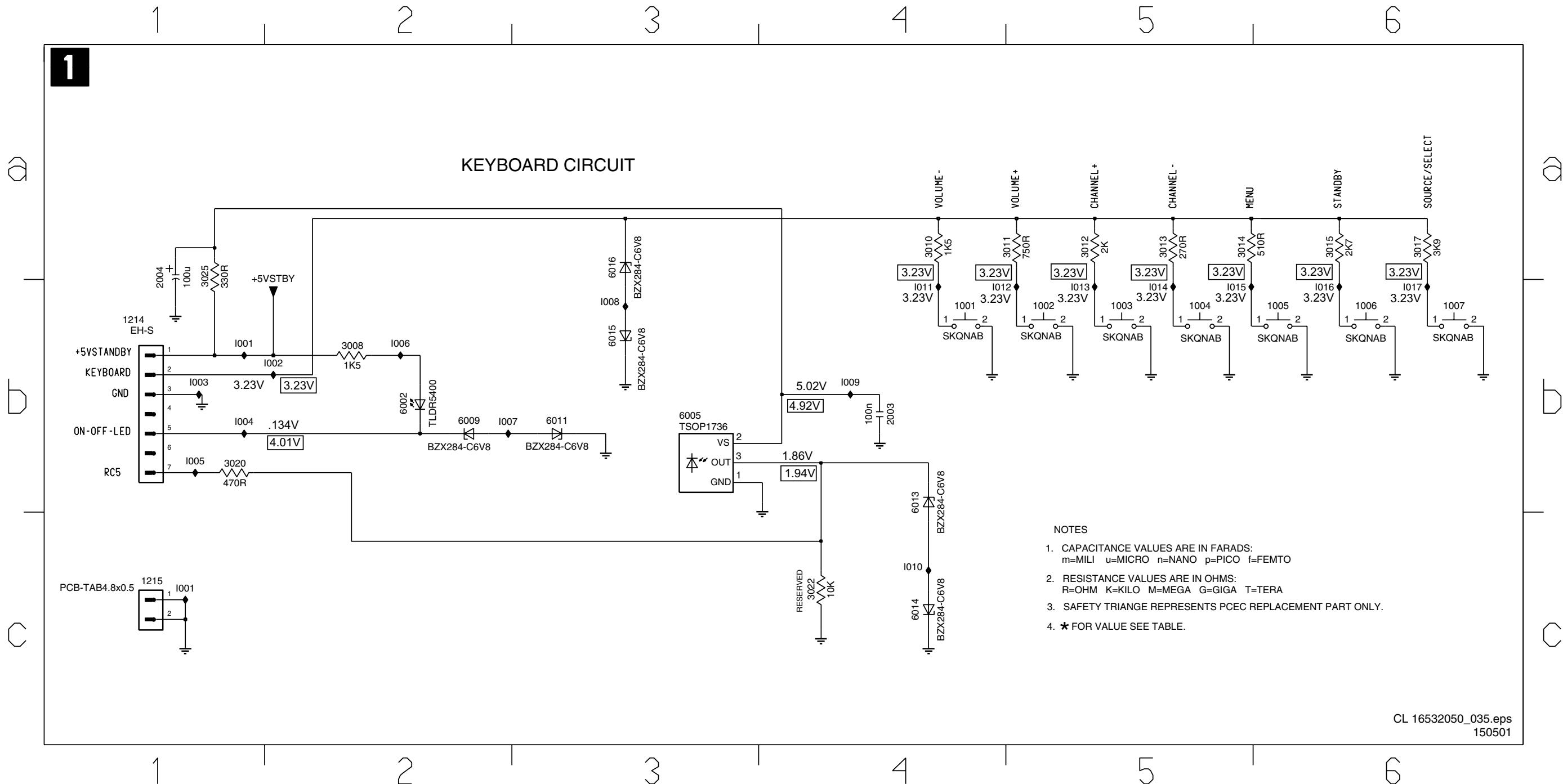
Local Control CBA (Top View)**Layout Local Control (Bottom View)**

M	2003 A1	3013 B2	3022 A1	6013 A1
	3008 A2	3014 A2	3025 A1	6014 A1
	3010 B2	3015 B2	4000 A1	6015 C1
	3011 A2	3017 B2	6009 C2	6016 C1
	3012 B2	3020 A1	6011 C1	

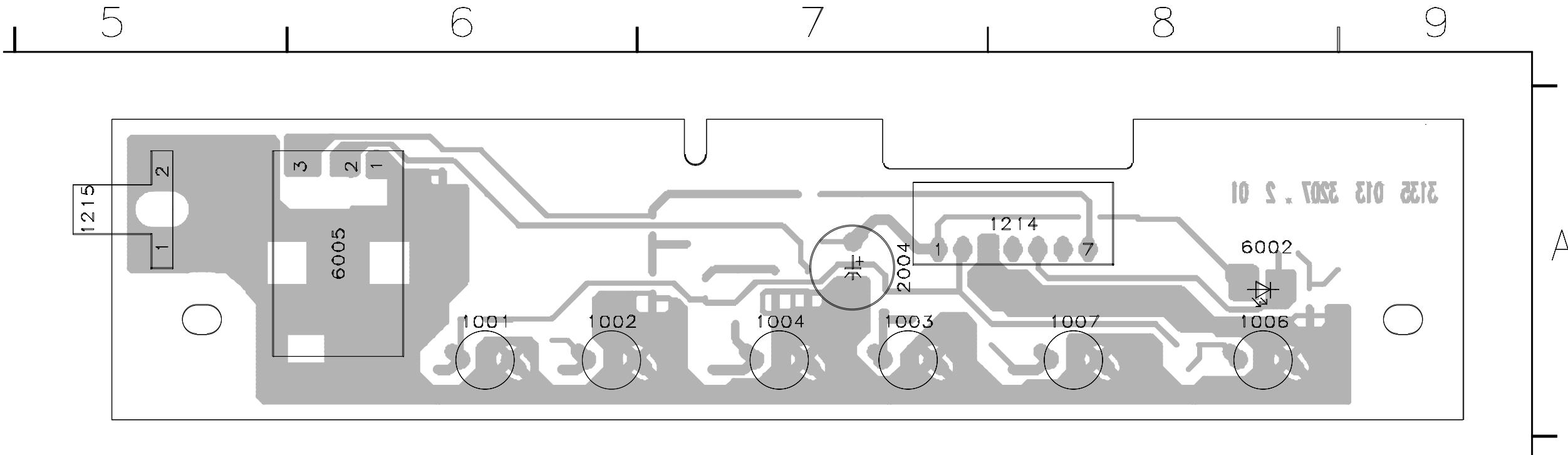
1 2 3

Local Control CBA (Bottom View)

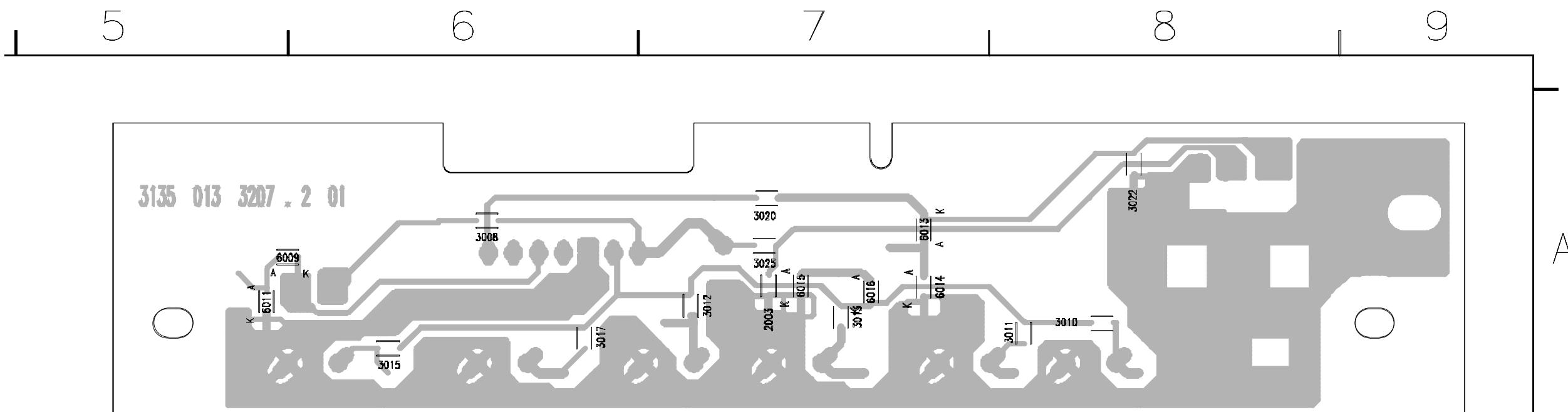
IR-LED / Keyboard



Layout IR-LED / Keyboard

N**IR/LED Keyboard CBA (Top View)**

1001 A6
 1002 A6
 1003 A7
 1004 A7
 1006 A8
 1007 A8
 1214 A8
 1215 A5
 2004 A7
 6002 A8
 6005 A6

N**IR/LED Keyboard CBA (Bottom View)**

2003 A7
 3008 A6
 3010 A8
 3011 A8
 3012 A7
 3013 A7
 3015 A6
 3017 A6
 3020 A7
 3022 A8
 3025 A7
 6009 A5
 6011 A5
 6013 A7
 6014 A7
 6015 A7
 6016 A7

Personal Notes:

Personal Notes: