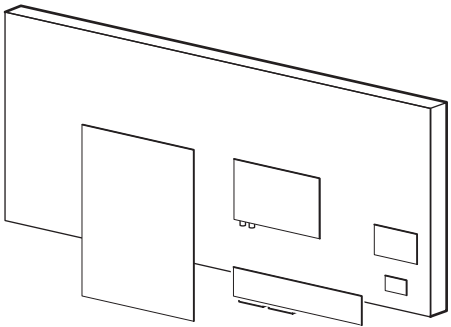


Service
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Service

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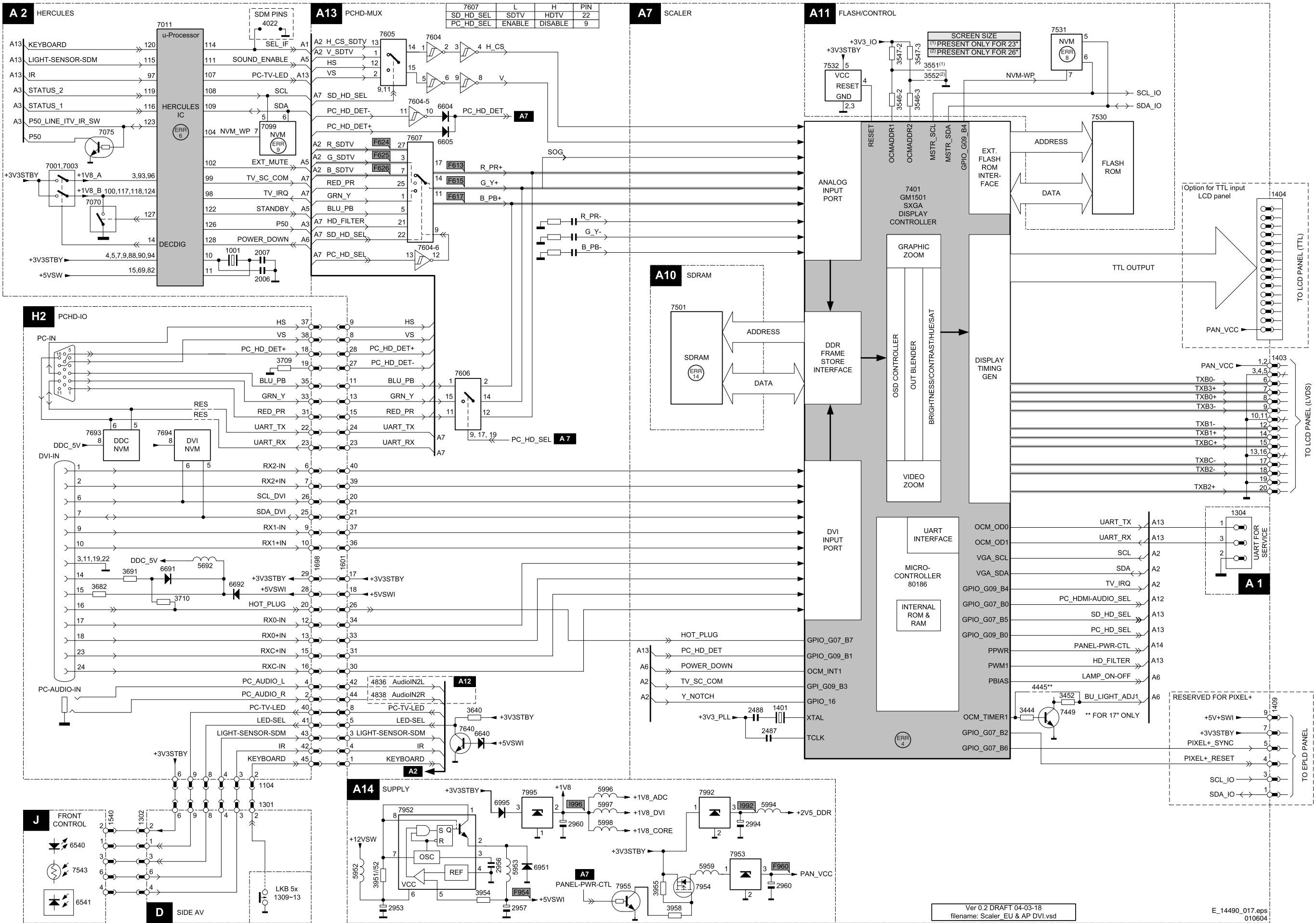


Service Manual

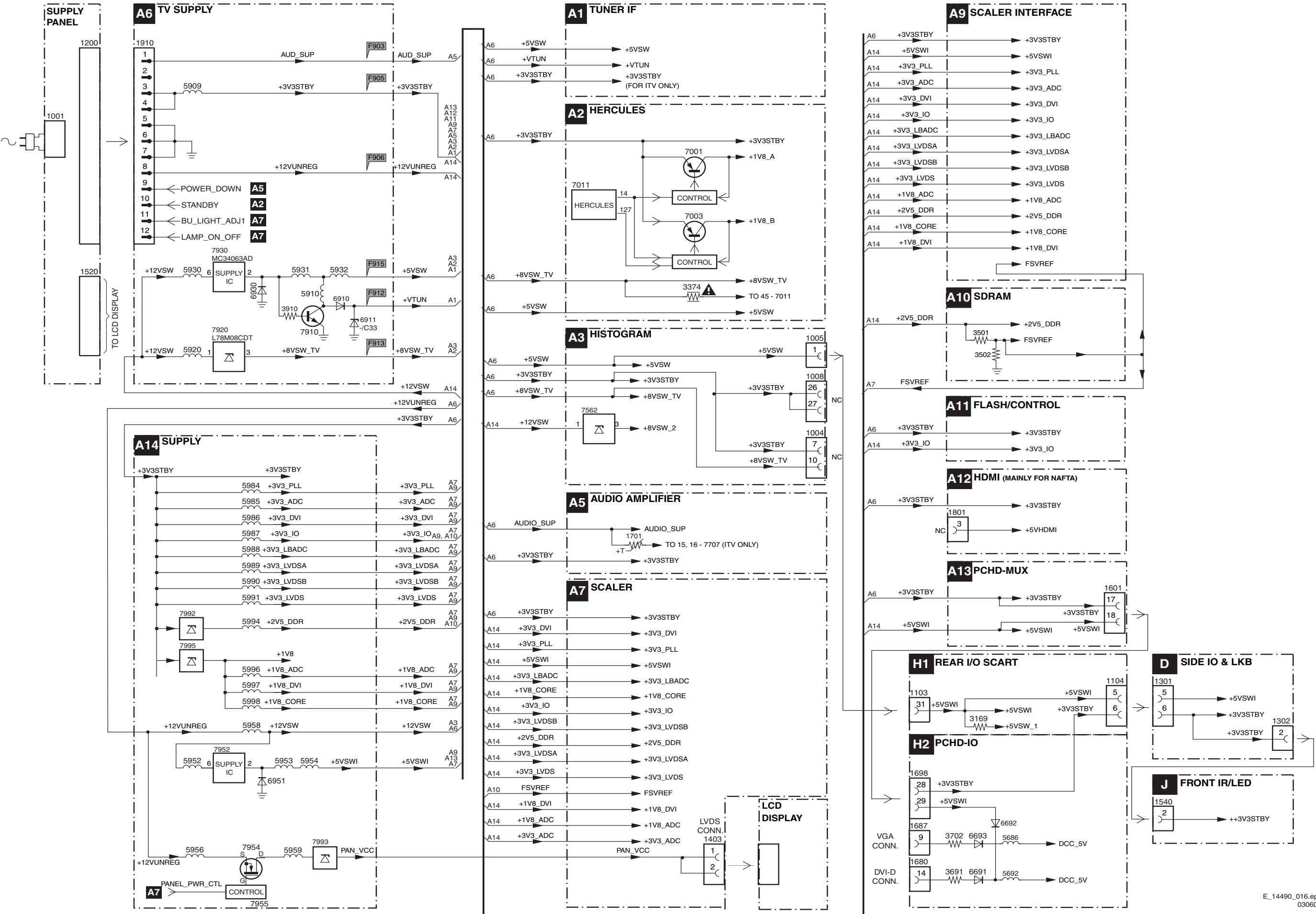
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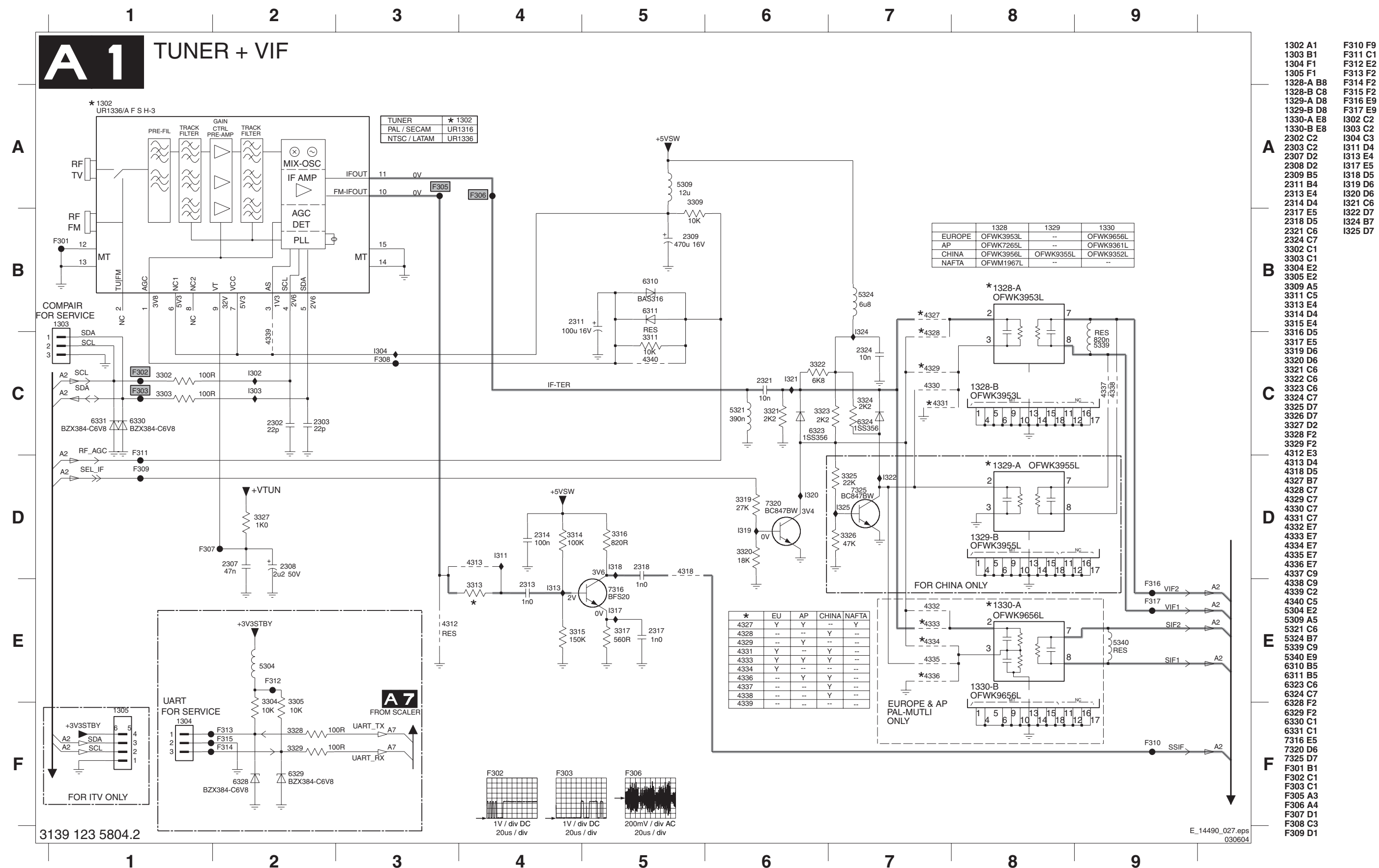




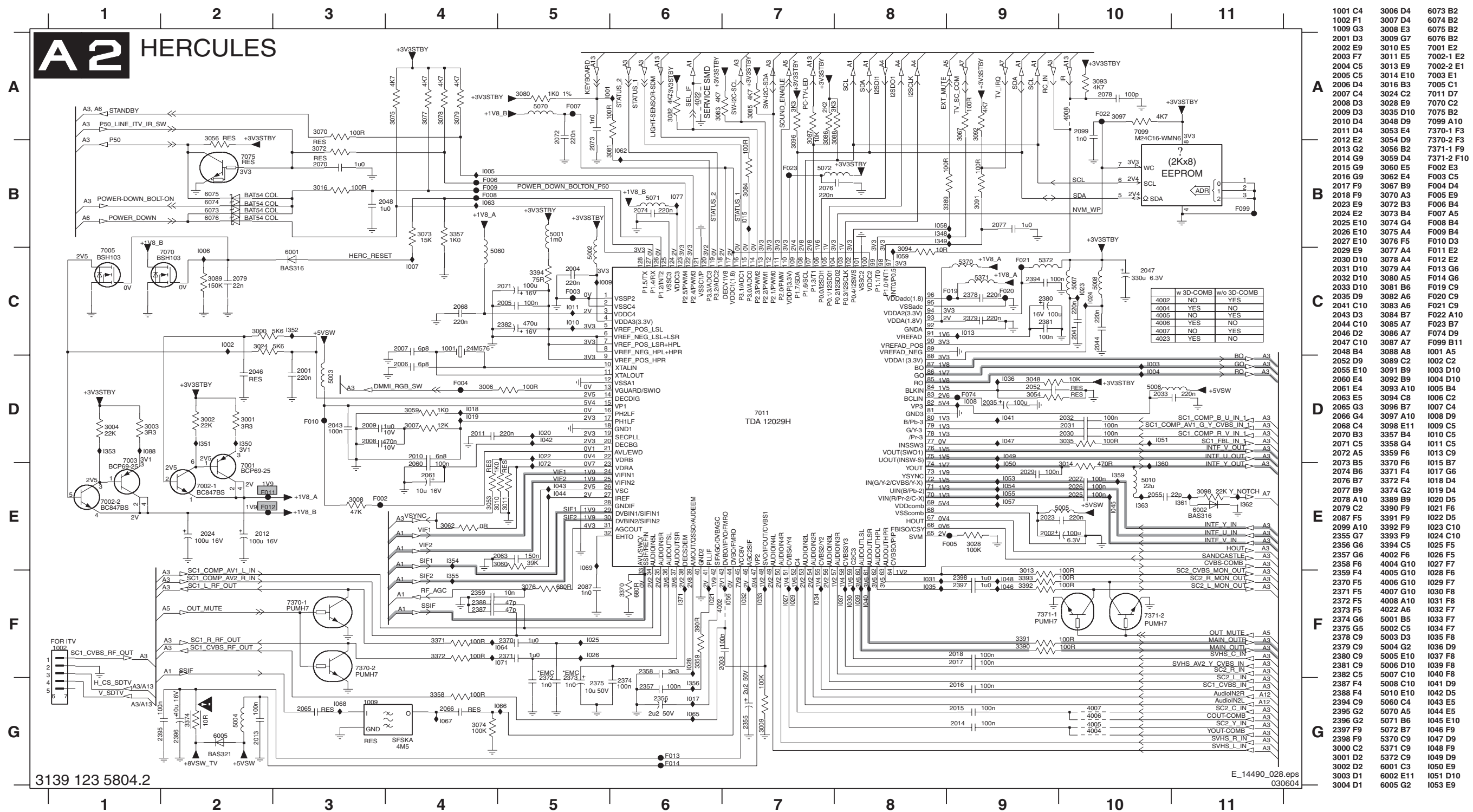
Supply Voltage Overview



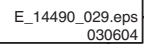
TV & Scaler Board: Power Supply



A2 HERCULES

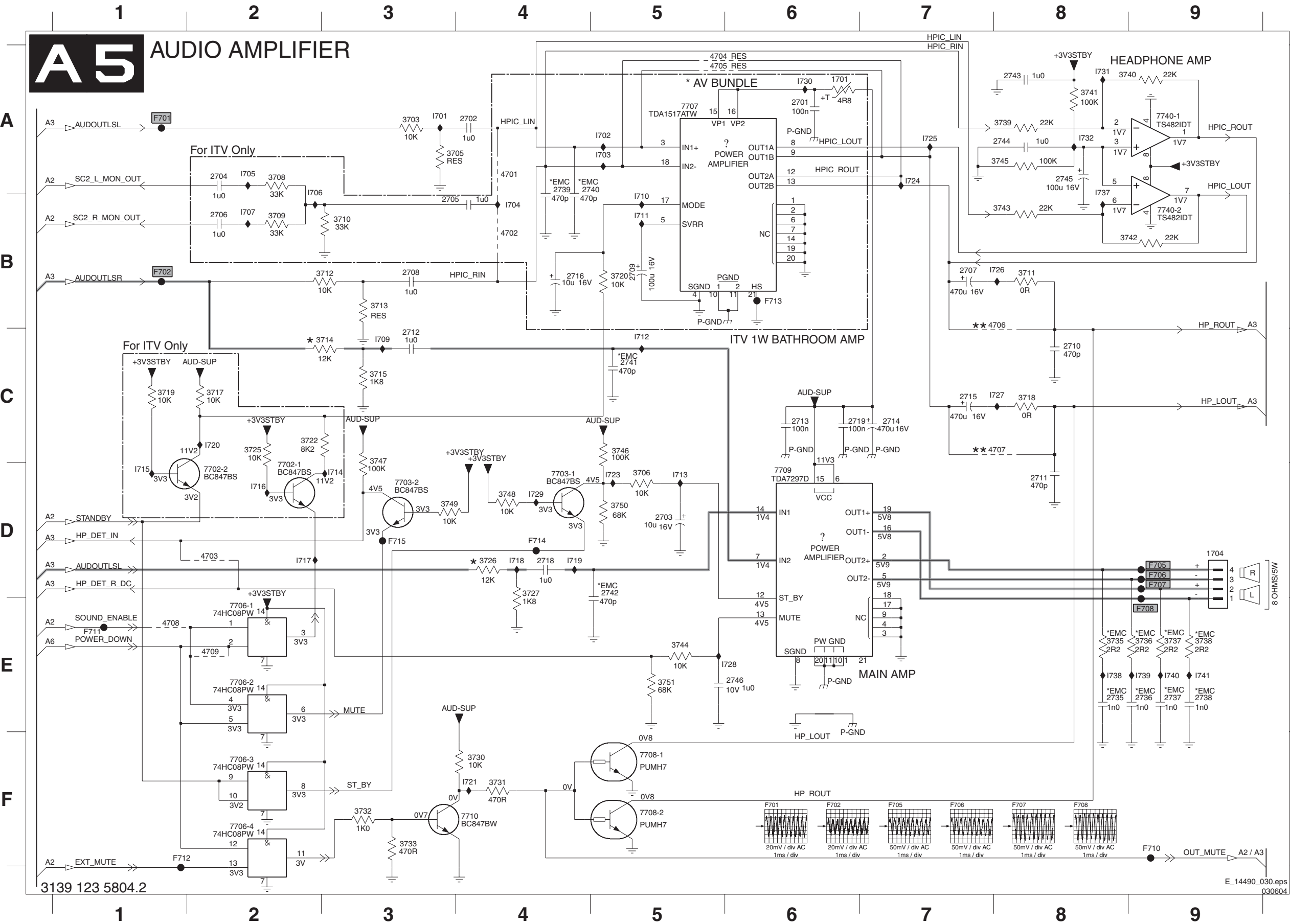


A3 HISTOGRAM



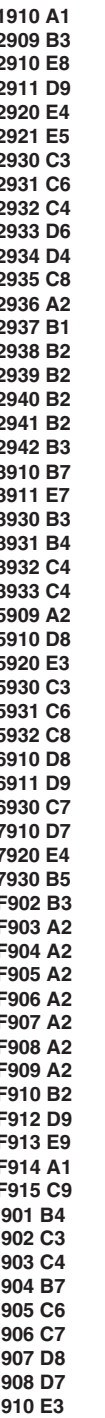
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2028 B9	4011 F2
2034 B9	4012 F2
2040 A4	4015 D7
2042 D8	4016 D11
2045 B11	4360 G8
2053 G2	4361 G8
2054 C1	4362 G8
2062 B8	4363 G8
2082 B2	4568 E5
2083 C2	5360 E9
2084 D2	5560 B5
2085 D2	6020 A8
2086 F2	6021 C11
2089 E2	6563 D5
2360 E9	6564 D5
2361 F1	7012 A5
2363 G9	7013 A5
2364 G11	7014 A6
2365 G11	7015 C8
2366 G10	7016 A8
2367 E9	7017 A10
2368 G9	7018 B7
2376 F5	7019 C10
2377 G5	7068 D5
2386 G5	7360 E10
2392 F5	7372-1 G6
2560 C6	7372-2 F6
2561 C6	7376-A G4
2562 C6	7376-B G4
2563 D4	7377-A F4
2564 C5	7377-B F4
3005 B7	7560 C4
3012 E16	7562 B5
3015 A6	7563 D4
3017 A6	F001 D5
3019 A4	F018 C6
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3021 A8	F025 A2
3022 A7	F026 A2
3023 A7	F027 A2
3025 A10	F028 A2
3026 B9	F029 A2
3027 B9	F030 B2
3029 B11	F031 B2
3030 C10	F032 B2
3031 E11	F033 B2
3032 C10	F034 B2
3033 E11	F035 B2
3034 E11	F036 B2
3036 E11	F037 C2
3037 A7	F038 C2
3038 C11	F039 C2
3049 B4	F040 C2
3050 B4	F041 C2
3051 B4	F042 C2
3052 A5	F043 C1
3055 E11	F044 C2
3057 C8	F045 C2
3058 D10	F046 C2
3061 D10	F047 D2
3063 D9	F048 D1
3064 G2	F049 D1
3065 D9	F050 D2
3066 C11	F051 D2
3068 D6	F052 D2
3069 E6	F053 D2
3071 G2	F055 C1
3360 E11	F056 D2
3361 E11	F057 D2
3362 E11	F058 E1
3363 E11	F059 D7
3364 E11	F060 E1
3365 E11	F061 E1
3366 E9	F062 E1
3367 E9	F063 E1
3368 F9	F064 D2
3369 F9	F067 F1
3373 F9	F068 F1
3378 G5	F069 F1
3380 F4	F070 D7
3381 F4	F071 F1
3382 G4	F072 G1
3383 G4	F073 F2
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3560 D6	F076 F1
3561 D6	F090 G1

Tv & Scaler Board: Audio Amplifier

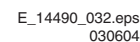


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1704 D9	7707 A5
2701 A6	7708-1 F5
2702 A4	7708-2 F5
2703 D5	7709 D6
2704 A2	7710 F4
2705 B3	7740-1 A9
2706 B2	7740-2 B9
2707 B7	F701 A1
2708 B3	F702 B1
2709 B5	F705 D9
2710 C8	F706 D9
2711 D8	F707 D9
2712 C3	F708 E9
2713 C6	F710 F9
2714 C7	F711 E1
2715 C7	F712 F1
2716 B4	F713 B6
2718 D4	F714 D4
2719 C6	F715 D3
2735 E8	I701 A3
2736 E9	I702 A5
2737 E9	I703 A5
2738 E9	I704 B4
2739 A4	I705 A2
2740 A5	I706 A2
2741 C5	I707 B2
2742 D5	I709 C3
2743 A8	I710 B5
2744 A8	I711 B5
2745 A8	I712 C5
2746 E6	I713 D5
3703 A3	I714 D3
3705 A3	I715 D1
3706 D5	I716 D2
3708 A2	I717 D2
3709 B2	I718 D4
3710 B3	I719 D4
3711 B8	I720 C2
3712 B3	I721 F4
3713 B3	I723 D5
3714 C3	I724 A7
3715 C3	I725 A7
3717 C2	I726 B8
3718 C8	I727 C8
3719 C1	I728 E6
3720 B5	I729 D4
3722 C2	I730 A6
3725 C2	I731 A8
3726 D4	I732 A8
3727 D4	I737 A8
3730 F4	I738 E8
3731 F4	I739 E9
3732 F3	I740 E9
3733 F3	I741 E9
3735 E8	
3736 E9	
3737 E9	
3738 E9	
3739 A8	
3740 A8	
3741 A8	
3742 B9	
3743 B8	
3744 E5	
3745 A8	
3746 C5	
3747 D3	
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4701 A4	
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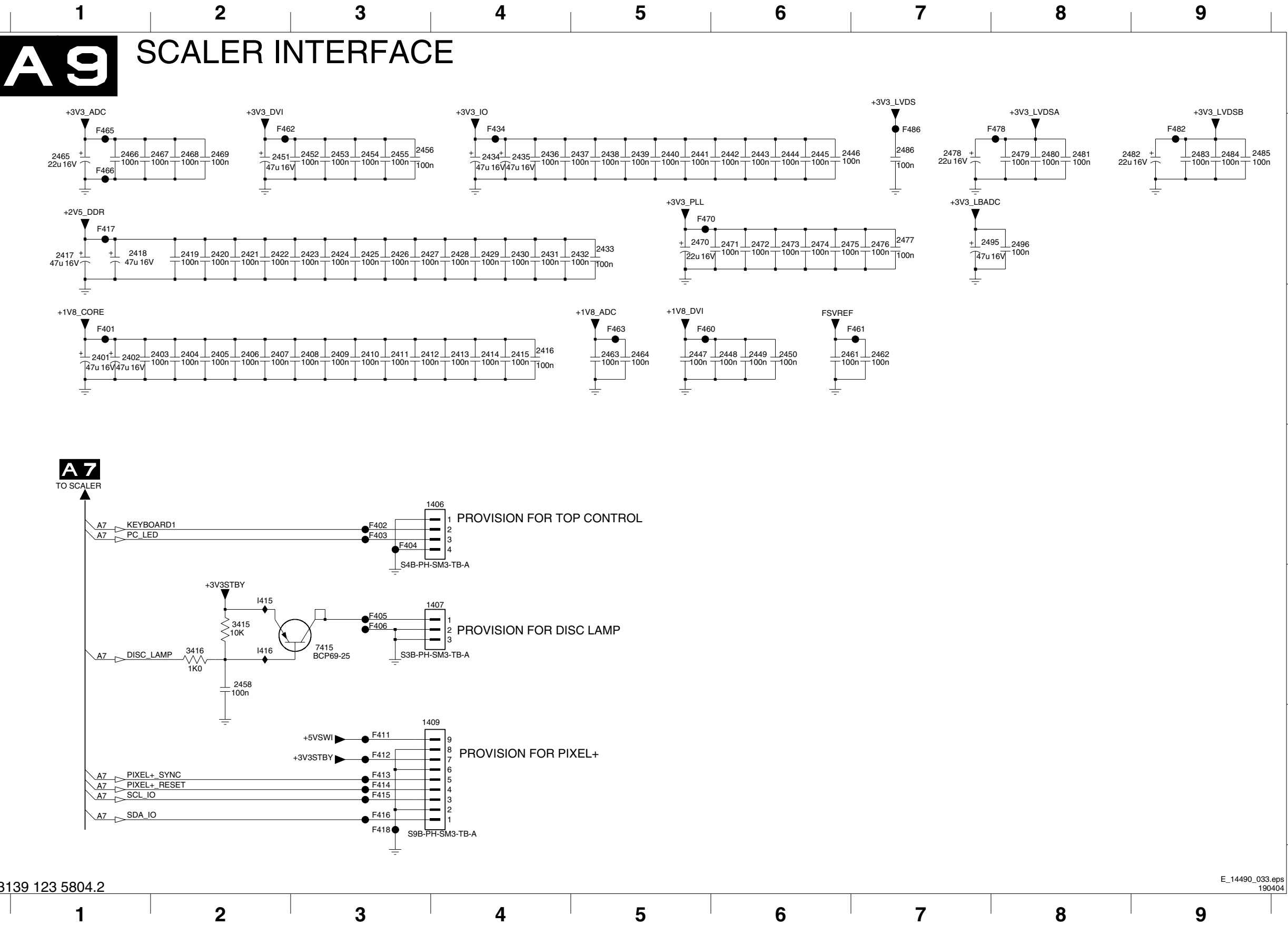
A 6 TV-SUPPLY



A 7 SCALER

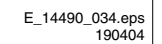


Tv & Scaler Board: Scaler Interface



1406 C4	2470 A
1407 D4	2471 A
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2403 B2	2475 A
2404 B2	2476 A
2405 B2	2477 A
2406 B2	2478 A
2407 B2	2479 A
2408 B3	2480 A
2409 B3	2481 A
2410 B3	2482 A
2411 B3	2483 A
2412 B3	2484 A
2413 B4	2485 A
2414 B4	2486 A
2415 B4	2495 A
2416 B4	2496 A
2417 A1	3415 D
2418 A1	3416 D
2419 A2	7415 D
2420 A2	F401 B
2421 A2	F402 C
2422 A2	F403 C
2423 A3	F404 C
2424 A3	F405 D
2425 A3	F406 D
2426 A3	F411 E
2427 A3	F412 E
2428 A4	F413 E
2429 A4	F414 E
2430 A4	F415 E
2431 A4	F416 E
2432 A5	F417 A
2433 A5	F418 E
2434 A4	F434 A
2435 A4	F460 B
2436 A4	F461 B
2437 A5	F462 A
2438 A5	F463 B
2439 A5	F465 A
2440 A5	F466 A
2441 A5	F470 A
2442 A6	F478 A
2443 A6	F482 A
2444 A6	F486 A
2445 A6	I415 D
2446 A7	I416 D
2447 B5	
2448 B6	
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2450 B6	
2451 A2	
2452 A3	
2453 A3	
2454 A3	
2455 A3	
2456 A3	
2458 D2	
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2468 A2	
2469 A2	

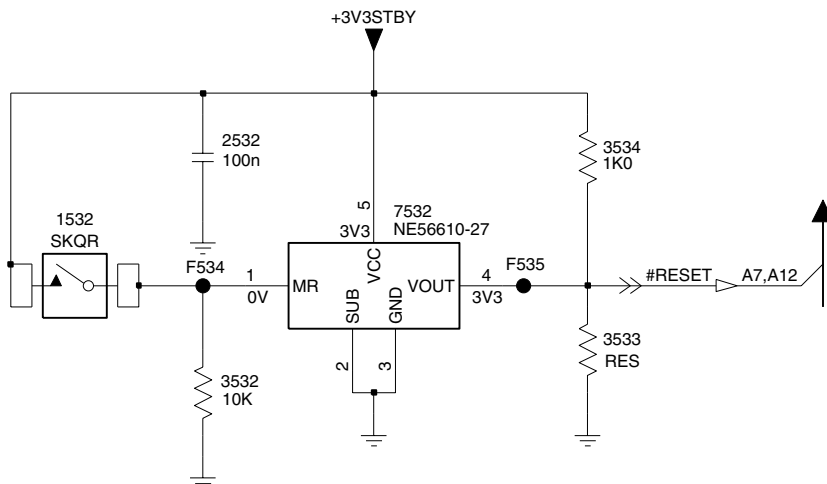
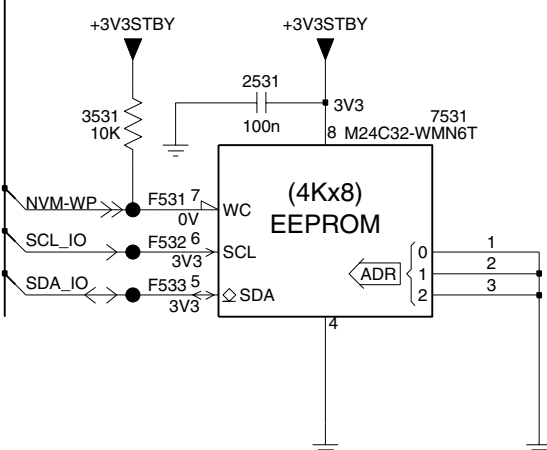
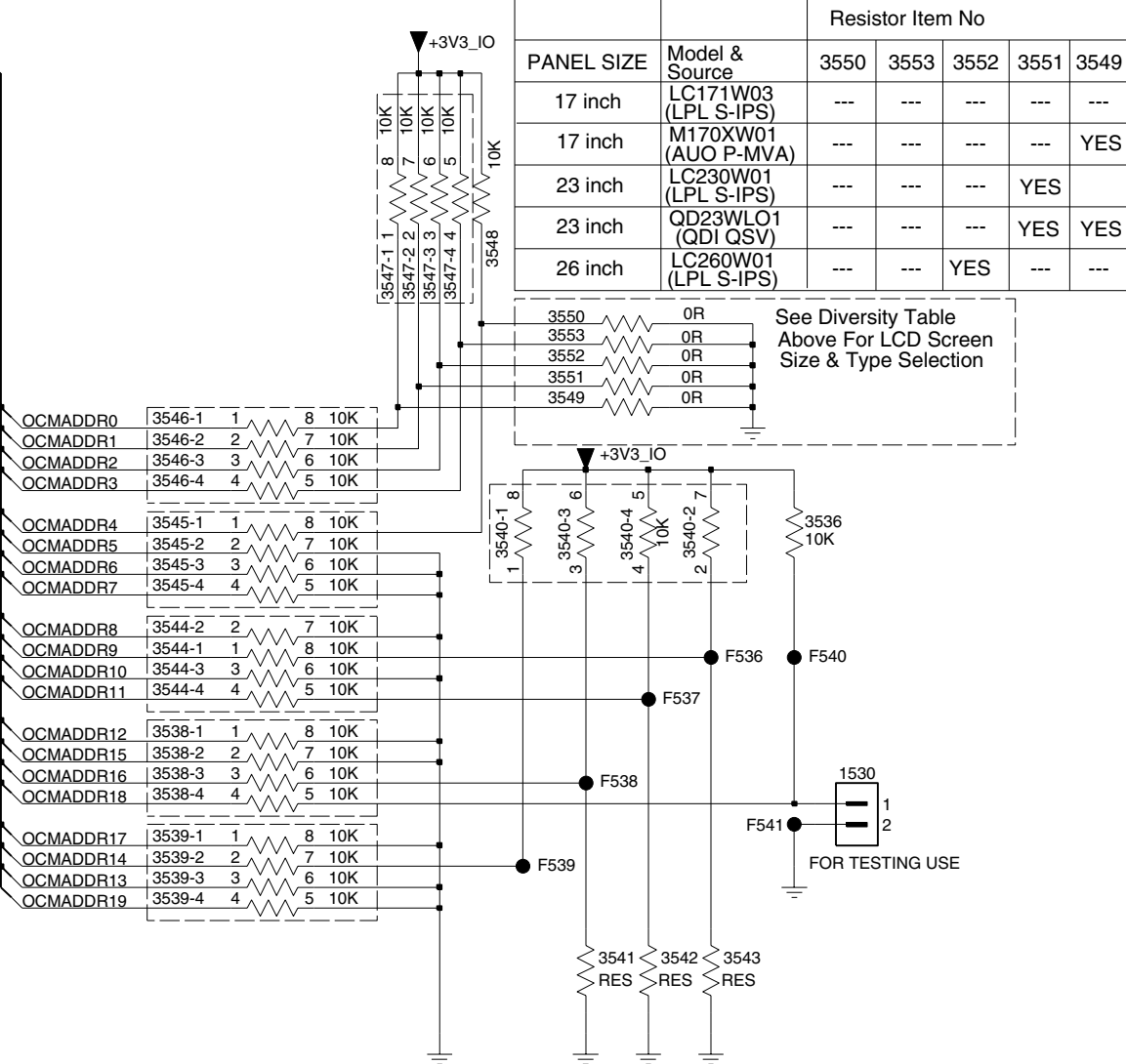
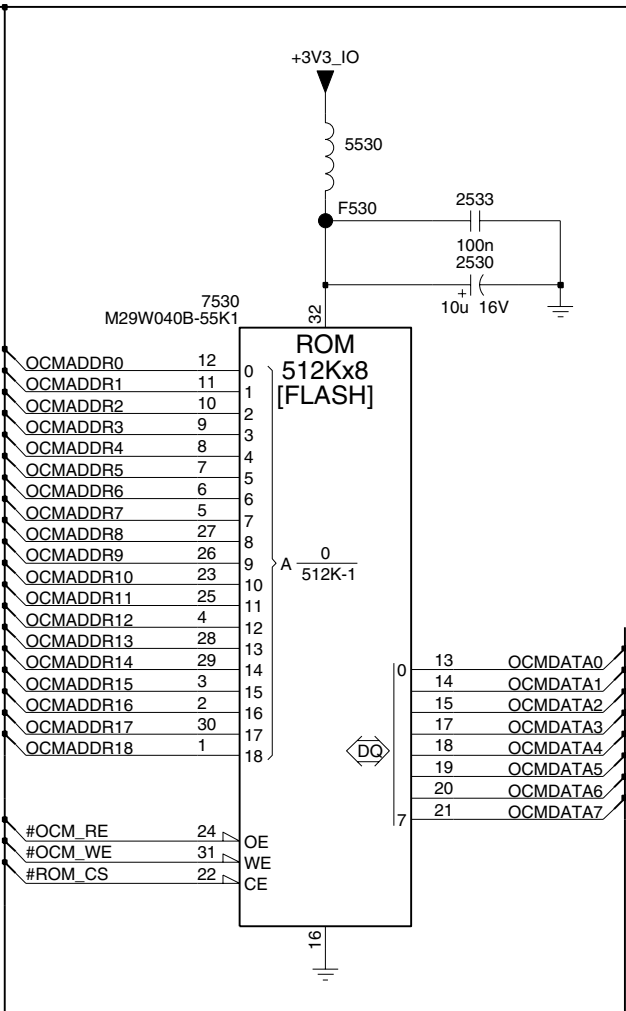
A 1 Ø SDRAM



Tv & Scaler Board: Flash / Control

A 1 1 FLASH / CONTROL

A 7



- 1530 C7
- 1532 E4
- 2530 A3
- 2531 D2
- 2532 D4
- 2533 A3
- 3531 D2
- 3532 E4
- 3533 E6
- 3534 D6
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- 3538-4 C5
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- 3550 A6
- 3551 A6
- 3552 A6
- 3553 A6
- 5530 A2
- 7530 A2
- 7531 D3
- 7532 E5
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- F532 E2
- F533 E2
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- F538 C6
- F539 C6
- F540 B7
- F541 C7

A

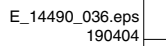
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C

D

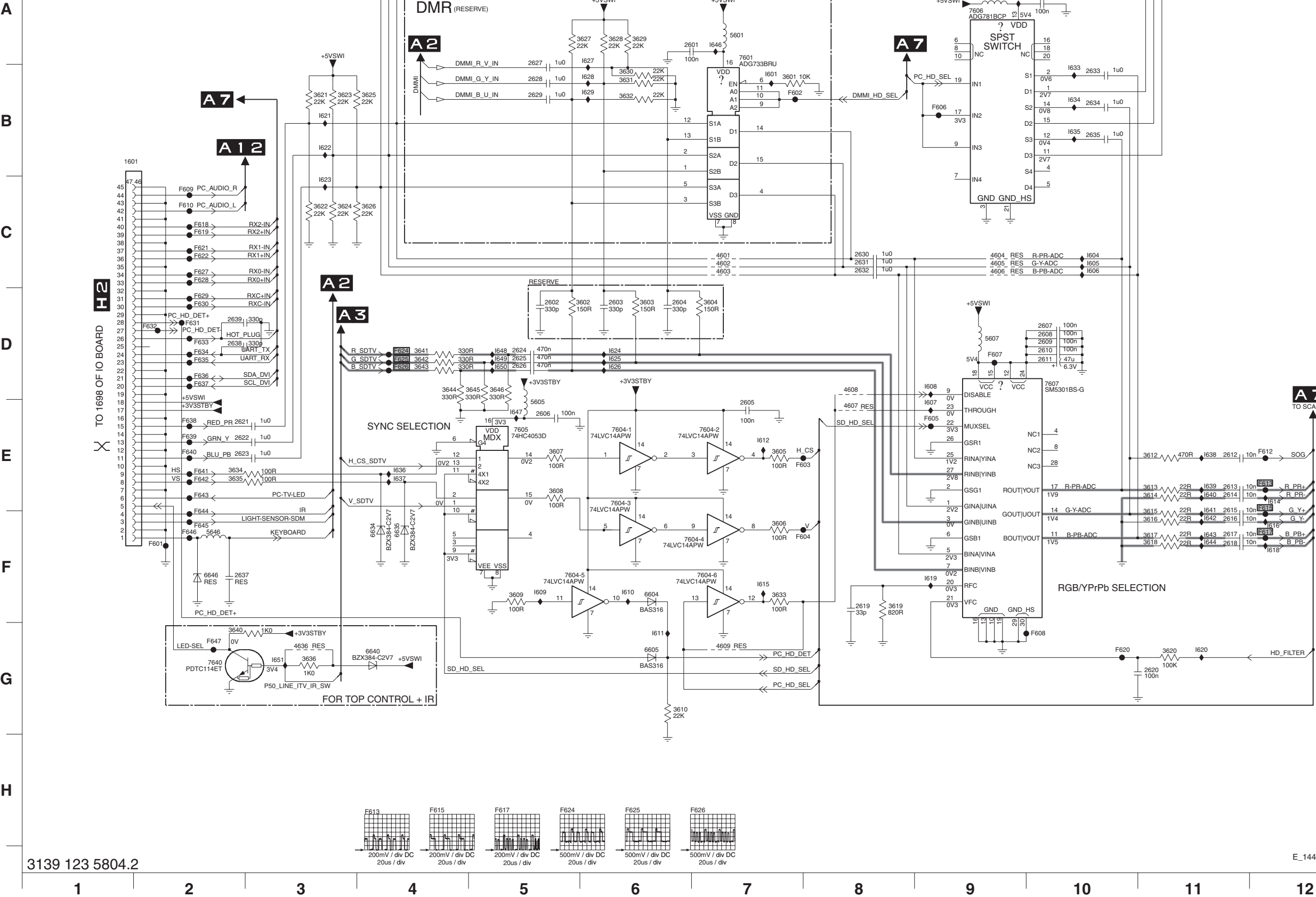
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Tv & Scaler Board: PCHD-MUX

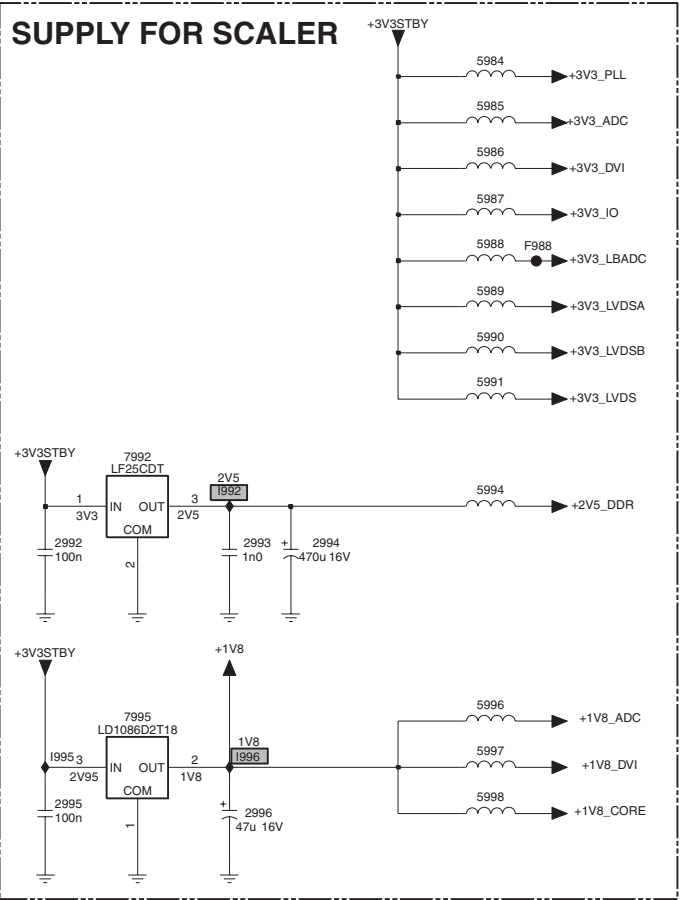
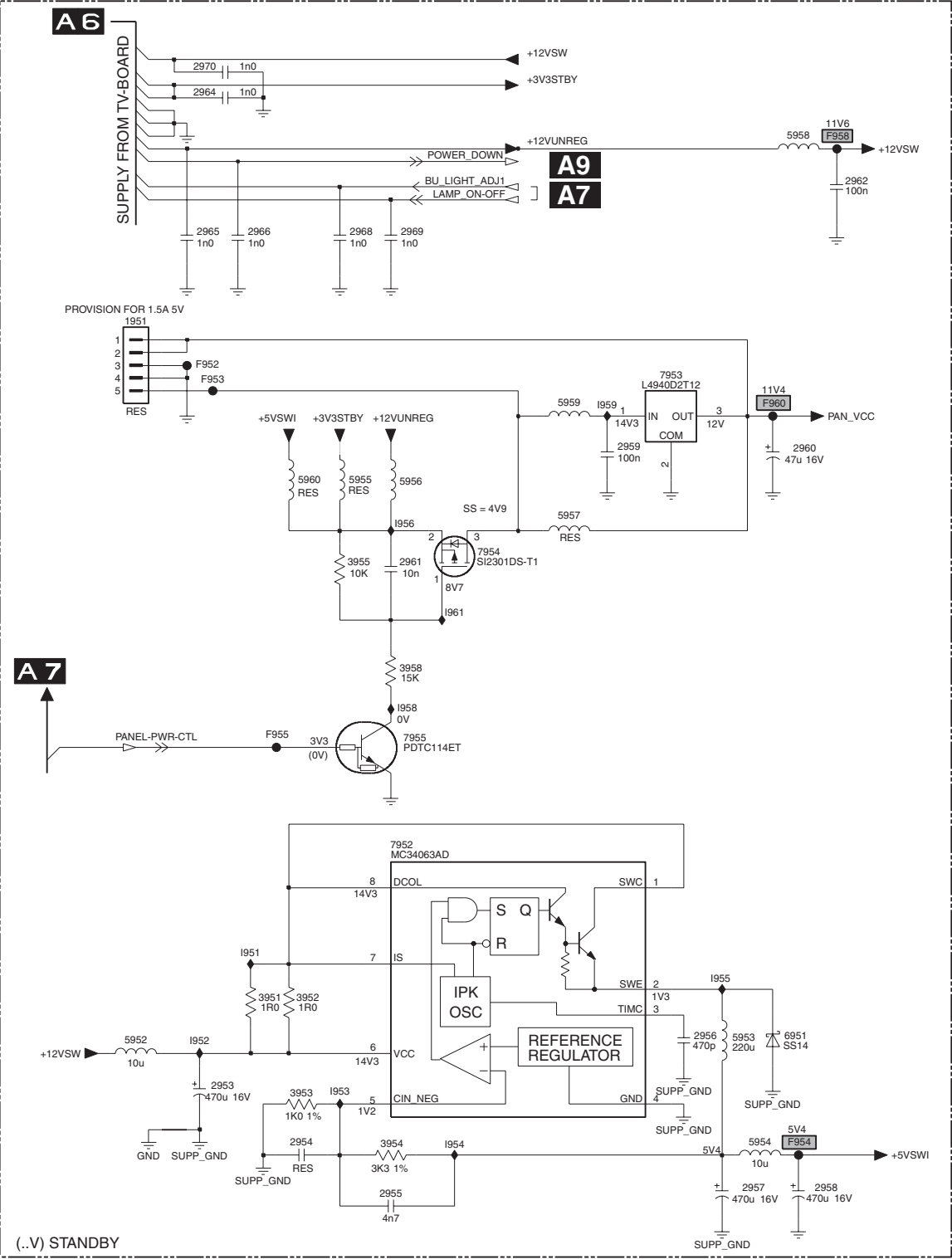
A 1 3 PCHD-MUX



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2605 E7	7604-3 E6
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2609 D10	7605 E5
2610 D10	7606 A9
2611 D10	7607 D10
2612 E11	7640 G2
2613 E11	F601 F2
2614 E11	F602 B7
2615 F11	F603 E8
2616 F11	F604 F8
2617 F11	F605 E9
2618 F11	F606 B9
2619 F8	F607 D9
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2622 E2	F610 C2
2623 E2	F612 E12
2624 D5	F613 E12
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2626 D5	F617 F12
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2628 B5	F619 C2
2629 B5	F620 G10
2630 C8	F621 C2
2631 C8	F622 C2
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2636 A10	F628 C2
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2639 D2	F631 D2
2640 D7	F632 D2
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2644 D7	F636 D2
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2669 B6	I618 F12
2670 B6	I619 F9
2671 F7	I620 G11
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2673 E2	I622 B3
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2679 D4	I628 B6
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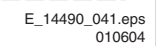
Tv & Scaler Board: Supply

A 1 4 SUPPLY

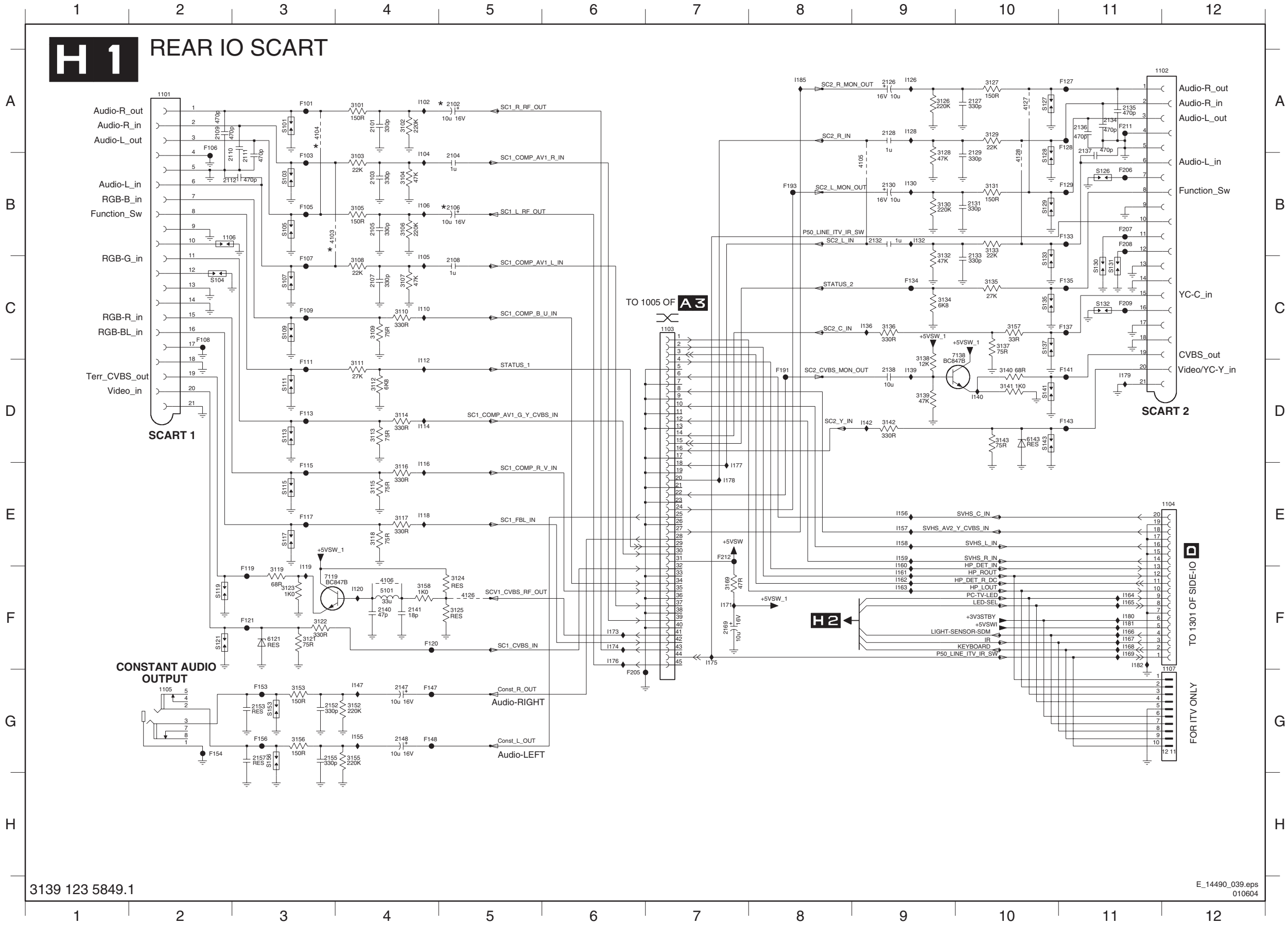


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- I959 C5
- I961 D4
- I992 E9
- I995 F8
- I996 F9

SIDE IO & LKB

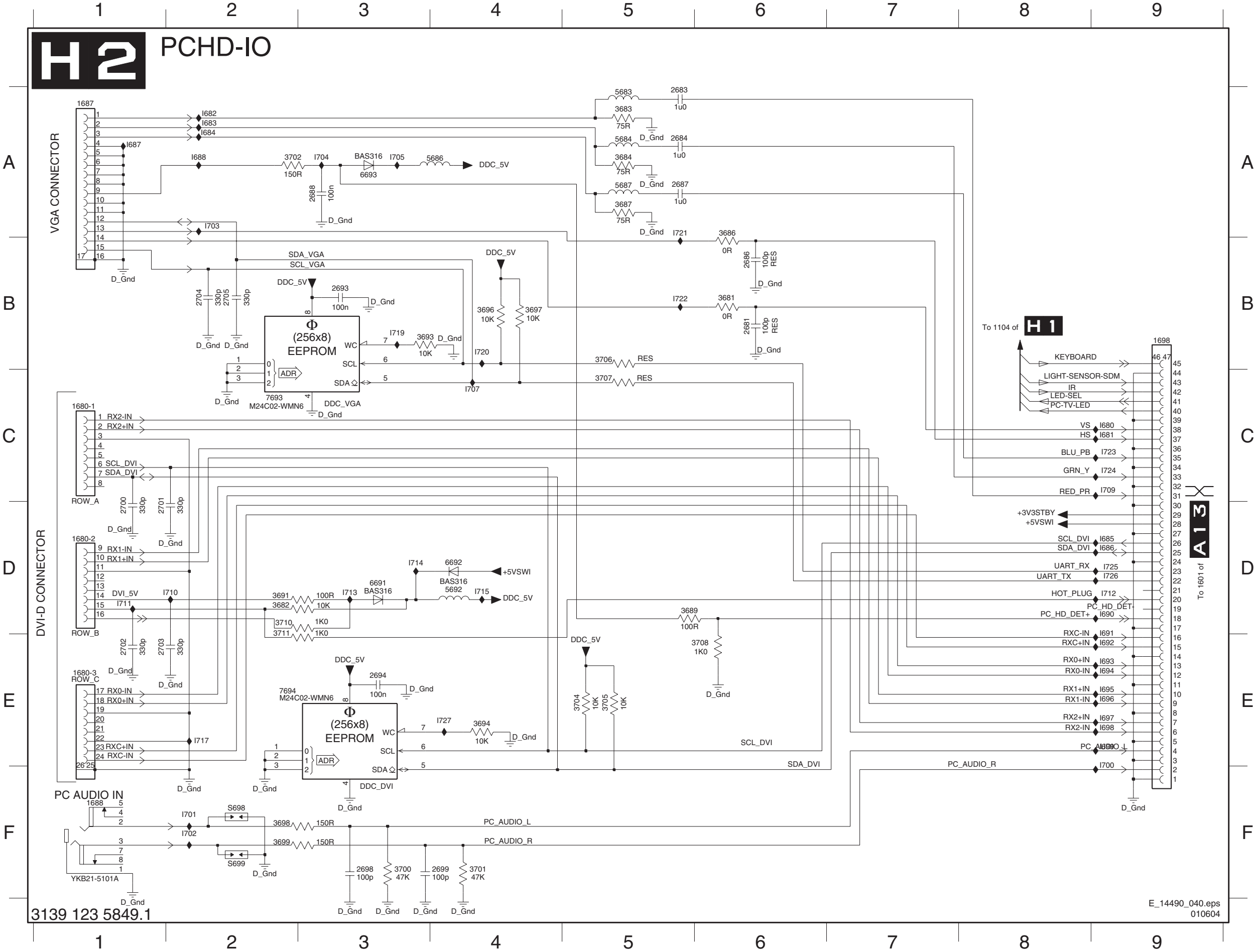


Rear IO Panel: Scart (17")



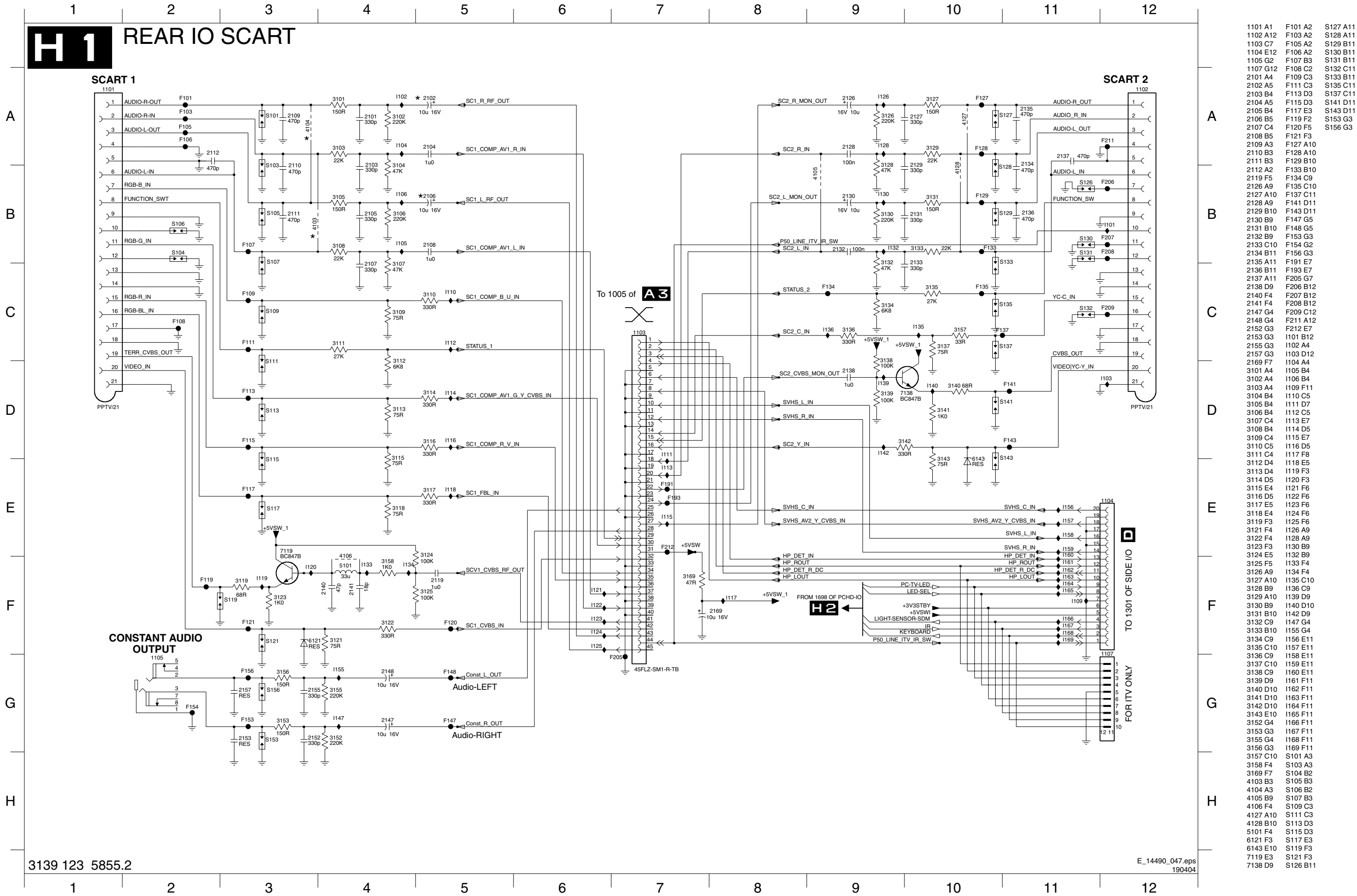
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1102 A11	F101 A3	S131 C11
1103 C7	F103 B3	S132 C11
1104 E12	F105 B3	S133 C10
1105 G2	F106 A2	S135 C10
1106 B2	F107 C3	S137 C10
1107 G12	F108 C2	S141 D10
2101 A4	F109 C3	S143 D10
2102 A5	F111 D3	S153 G3
2103 B4	F113 D3	S156 G3
2104 B5	F115 E3	
2105 B4	F117 E3	
2106 B5	F119 F3	
2107 C4	F120 F4	
2108 C5	F121 F3	
2109 A2	F127 A11	
2110 B2	F128 A11	
2111 B3	F129 B11	
2112 B2	F133 B11	
2126 A9	F134 C9	
2127 A10	F135 C11	
2128 A9	F137 C11	
2129 B10	F141 D11	
2130 B9	F143 D11	
2131 B10	F147 G4	
2132 B9	F148 G4	
2133 C10	F153 G3	
2134 A11	F154 G2	
2135 A11	F156 G3	
2136 A11	F191 D8	
2137 A11	F193 B8	
2138 D9	F205 G6	
2140 F4	F206 B11	
2141 F4	F207 B11	
2147 G4	F208 B11	
2148 G4	F209 C11	
2152 G3	F211 A11	
2153 G3	F212 E7	
2155 G3	I102 A4	
2157 G3	I104 B4	
2169 F7	I105 C4	
3101 A4	I106 B4	
3102 A4	I110 C4	
3103 B4	I112 D4	
3104 B4	I114 D4	
3105 B4	I116 E4	
3106 B4	I118 E4	
3107 C4	I119 F3	
3108 C4	I120 F4	
3109 C4	I126 A9	
3110 C4	I128 A9	
3111 D4	I130 B9	
3112 D4	I132 B9	
3113 D4	I136 C9	
3114 D4	I139 D9	
3115 E4	I140 D10	
3116 E4	I142 D9	
3117 E4	I147 G4	
3118 E4	I155 G4	
3119 F3	I156 E9	
3121 F3	I157 E9	
3122 F3	I158 E9	
3123 F3	I159 E9	
3124 F5	I160 E9	
3125 F5	I161 F9	
3126 A9	I162 F9	
3127 A10	I163 F9	
3128 B9	I164 F11	
3129 A10	I165 F11	
3130 B9	I166 F11	
3131 B10	I167 F11	
3132 C9	I168 F11	
3133 B10	I169 F11	
3134 C9	I171 F7	
3135 C10	I173 F6	
3136 C9	I174 F6	
3137 C10	I175 F7	
3138 C9	I176 F6	
3139 D9	I177 E7	
3140 D10	I178 E7	
3141 D10	I179 D11	
3142 D9	I180 F11	
3143 D10	I181 F11	
3152 G4	I182 F11	
3153 G3	I185 A8	
3155 G4	S101 A3	
3156 G3	S103 B3	
3157 C10	S104 C2	
3158 F4	S105 B3	
3169 F7	S107 C3	
4103 B3	S109 C3	
4104 A3	S111 D3	
4105 B9	S113 D3	
4106 F4	S115 E3	
4126 F5	S117 E3	
4127 A10	S119 F2	
4128 B10	S121 F2	
5101 F4	S126 B11	
6121 F3	S127 A10	
6143 D10	S128 B10	
7119 F4	S129 B10	

Rear IO Panel: PCHD-IO (17")

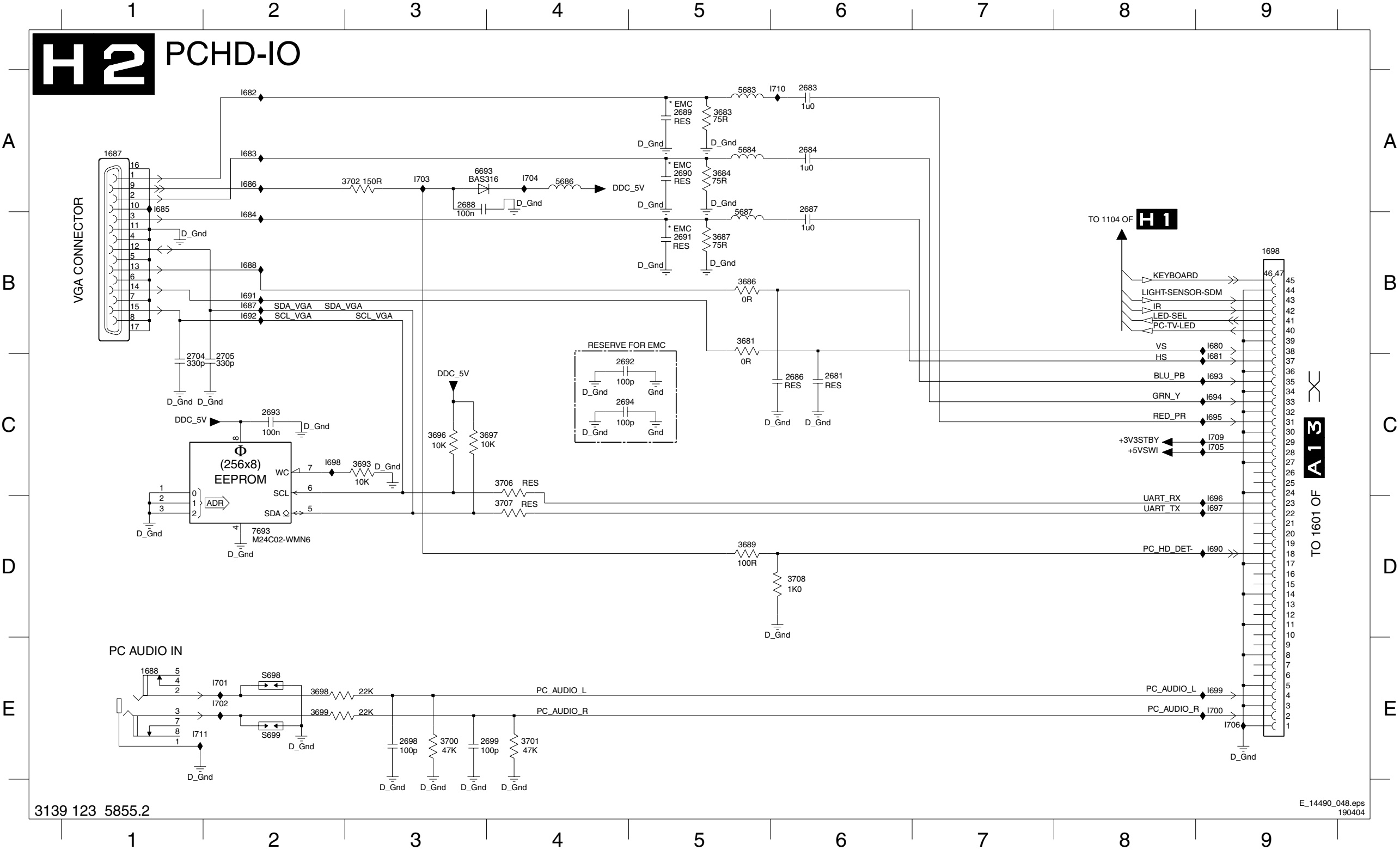


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|-----------|---------|
| 1680-1 C1 | I701 F2 |
| 1680-2 D1 | I702 F2 |
| 1680-3 E1 | I703 A2 |
| 1687 A1 | I704 A3 |
| 1688 F1 | I705 A3 |
| 1698 B9 | I707 C4 |
| 2681 B6 | I709 C9 |
| 2683 A5 | I710 D2 |
| 2684 A5 | I711 D1 |
| 2686 B6 | I712 D9 |
| 2687 A5 | I713 D3 |
| 2688 A3 | I714 D3 |
| 2693 B3 | I715 D4 |
| 2694 E3 | I717 E2 |
| 2698 F3 | I719 B3 |
| 2699 F4 | I720 B4 |
| 2700 D1 | I721 A5 |
| 2701 D1 | I722 B5 |
| 2702 E1 | I723 C9 |
| 2703 E1 | I724 C9 |
| 2704 B2 | I725 D9 |
| 2705 B2 | I726 D9 |
| 3681 B6 | I727 E4 |
| 3682 D2 | S698 F2 |
| 3683 A5 | S699 F2 |
| 3684 A5 | |
| 3686 A6 | |
| 3687 A5 | |
| 3689 D5 | |
| 3691 D2 | |
| 3693 B3 | |
| 3694 E4 | |
| 3696 B4 | |
| 3697 B4 | |
| 3698 F2 | |
| 3699 F2 | |
| 3700 F3 | |
| 3701 F4 | |
| 3702 A2 | |
| 3704 E5 | |
| 3705 E5 | |
| 3706 B5 | |
| 3707 C5 | |
| 3708 E6 | |
| 3710 D2 | |
| 3711 E2 | |
| 5683 A5 | |
| 5684 A5 | |
| 5686 A4 | |
| 5687 A5 | |
| 5692 D4 | |
| 6691 D3 | |
| 6692 D4 | |
| 6693 A3 | |
| 7693 C2 | |
| 7694 E2 | |
| I680 C9 | |
| I681 C9 | |
| I682 A2 | |
| I683 A2 | |
| I684 A2 | |
| I685 D9 | |
| I686 D9 | |
| I687 A1 | |
| I688 A2 | |
| I690 D9 | |
| I691 D9 | |
| I692 E9 | |
| I693 E9 | |
| I694 E9 | |
| I695 E9 | |
| I696 E9 | |
| I697 E9 | |
| I698 E9 | |
| I699 E9 | |
| I700 E9 | |

Rear IO Panel: Scart (23'726')



Rear IO Panel: PCHD-IO (23'726')



- 1687 A1
- 1688 E1
- 1698 B9
- 2681 C6
- 2683 A6
- 2684 A6
- 2686 C6
- 2687 B6
- 2688 A3
- 2689 A5
- 2690 A5
- 2691 B5
- 2692 C4
- 2693 C2
- 2694 C4
- 2698 E3
- 2699 E4
- 2704 C1
- 2705 C2
- 3681 B5
- 3683 A5
- 3684 A5
- 3686 B5
- 3687 B5
- 3689 D5
- 3693 C3
- 3696 C3
- 3697 C4
- 3698 E2
- 3699 E2
- 3700 E3
- 3701 E4
- 3702 A3
- 3706 C4
- 3707 D4
- 3708 D6
- 5683 A5
- 5684 A5
- 5686 A4
- 5687 B5
- 6693 A3
- 7693 D2
- 1680 B9
- 1681 C9
- 1682 A2
- 1683 A2
- 1684 B2
- 1685 A1
- 1686 A2
- 1687 B2
- 1688 B2
- 1690 D9
- 1691 B2
- 1692 B2
- 1693 C9
- 1694 C9
- 1695 C9
- 1696 D9
- 1697 D9
- 1698 C2
- 1699 E9
- 1700 E9
- 1701 E2
- 1702 E2
- 1703 A3
- 1704 A4
- 1705 C9
- 1706 E9
- 1709 C9
- 1710 A6
- 1711 E1
- S698 E2
- S699 E2

9.6 Video: TV Part (diagrams A1, A2, and A3)

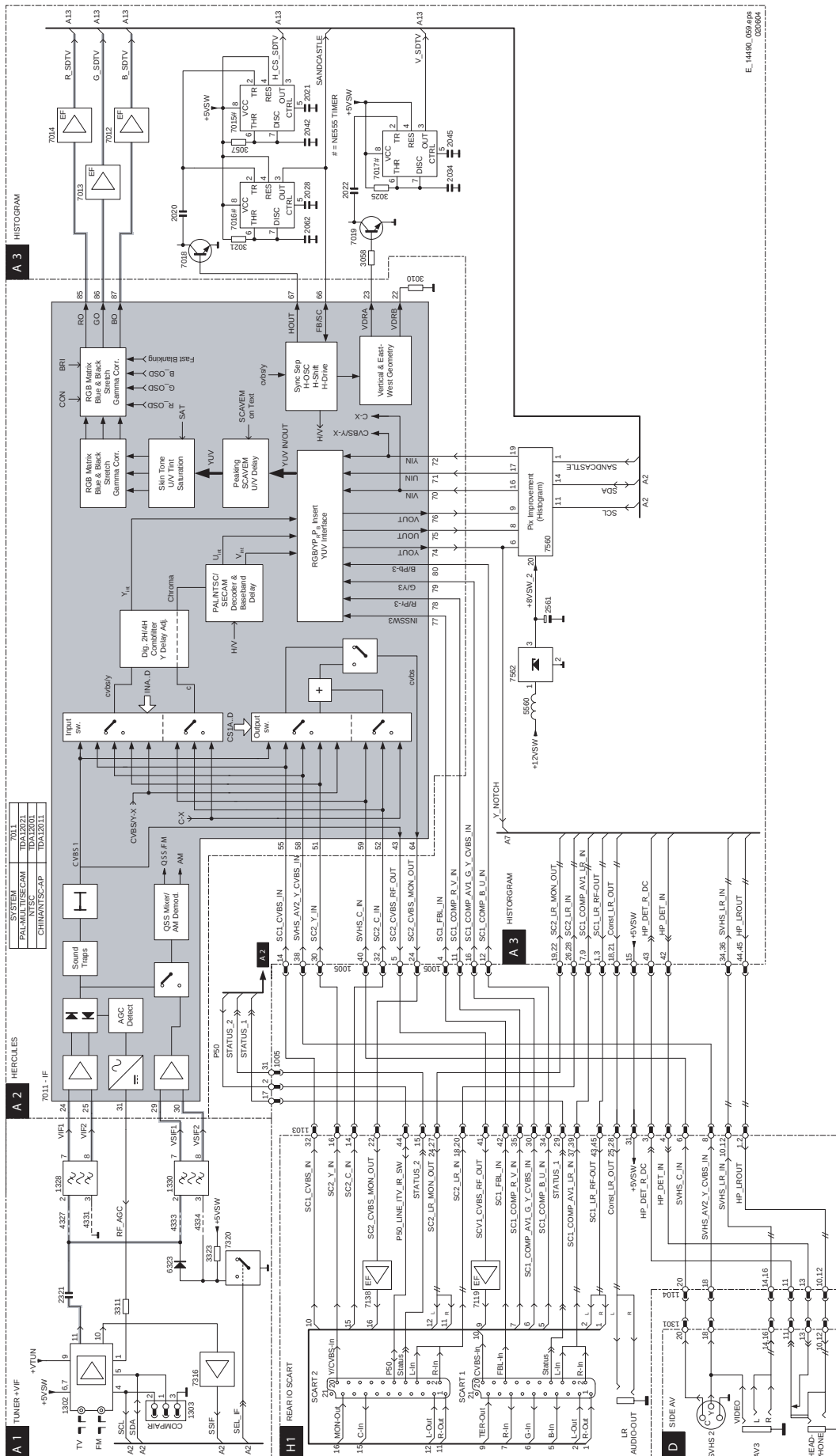


Figure 9-2 Block diagram video processing



Figure 9-3 Block diagram Scaler Part

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