

Service
Service
Service



Service Manual

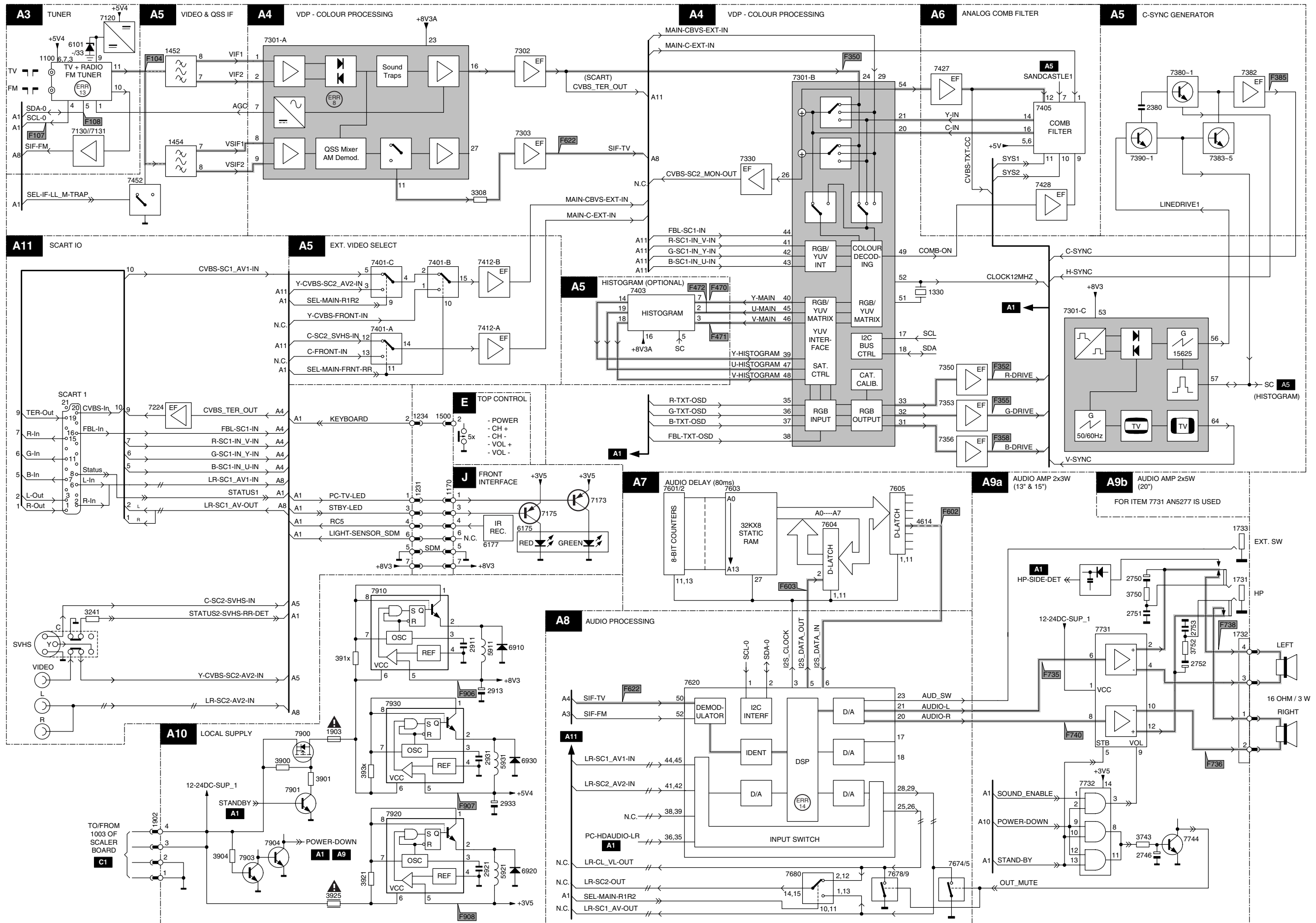
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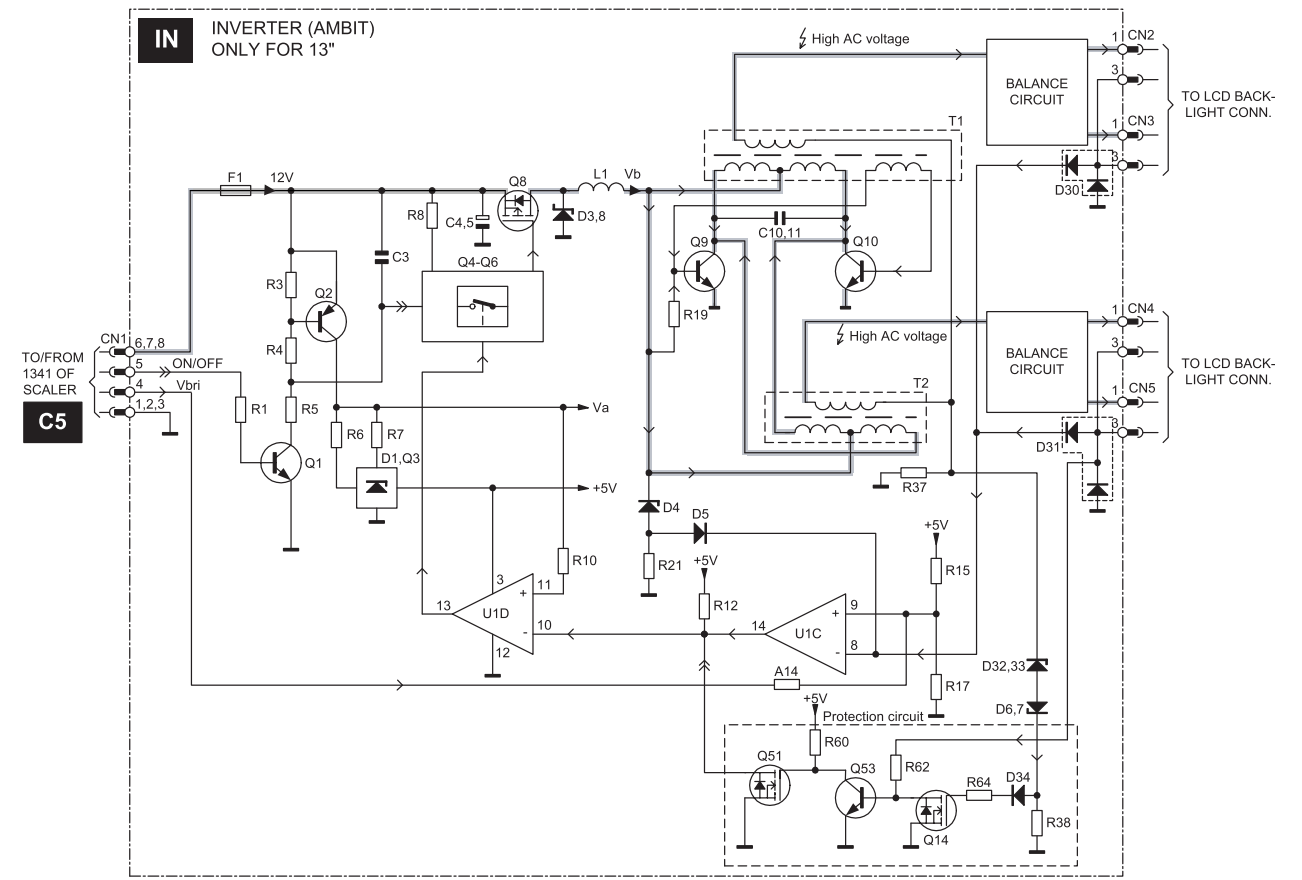
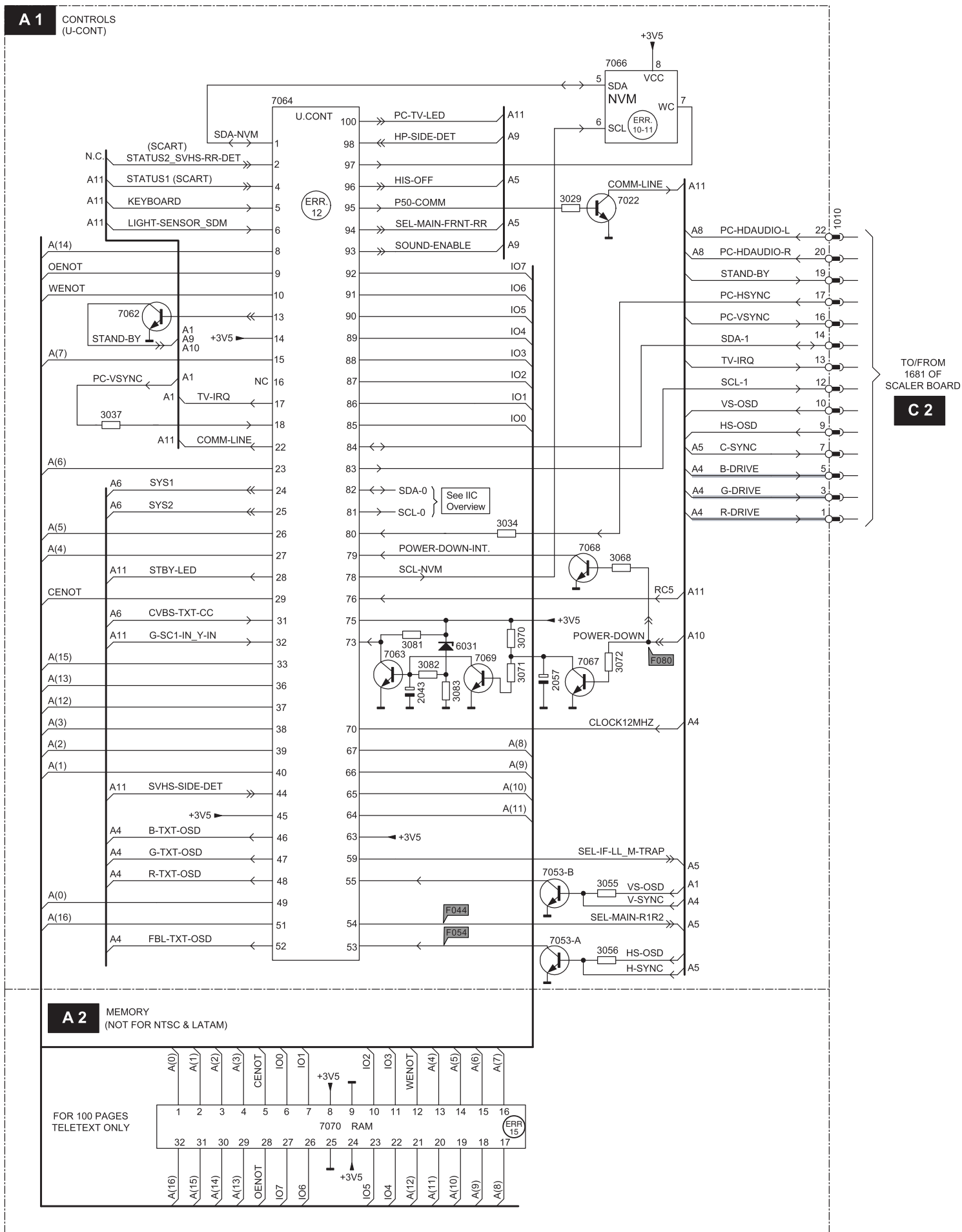
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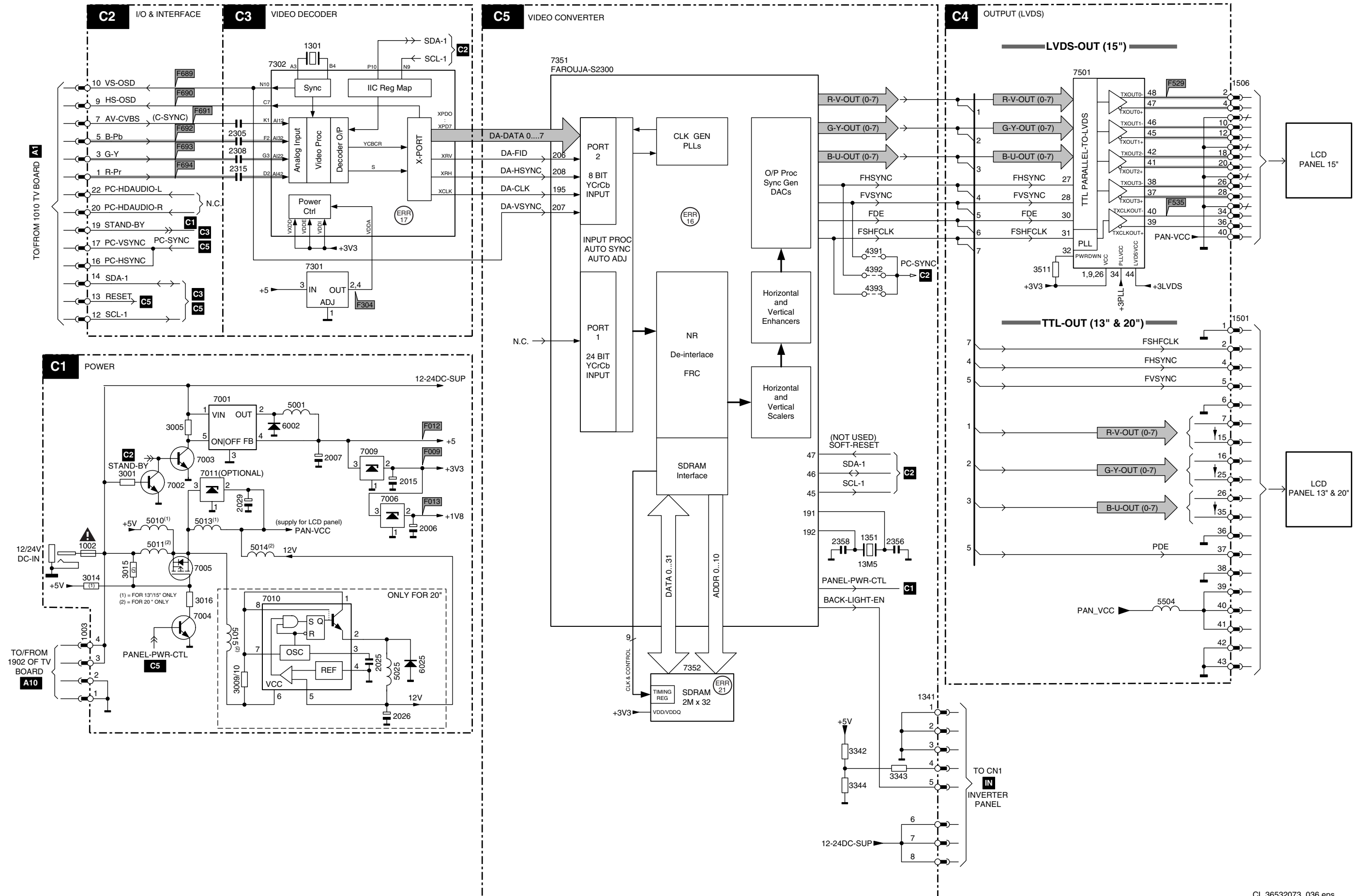
Block Diagram (Tuner-IF-Video)



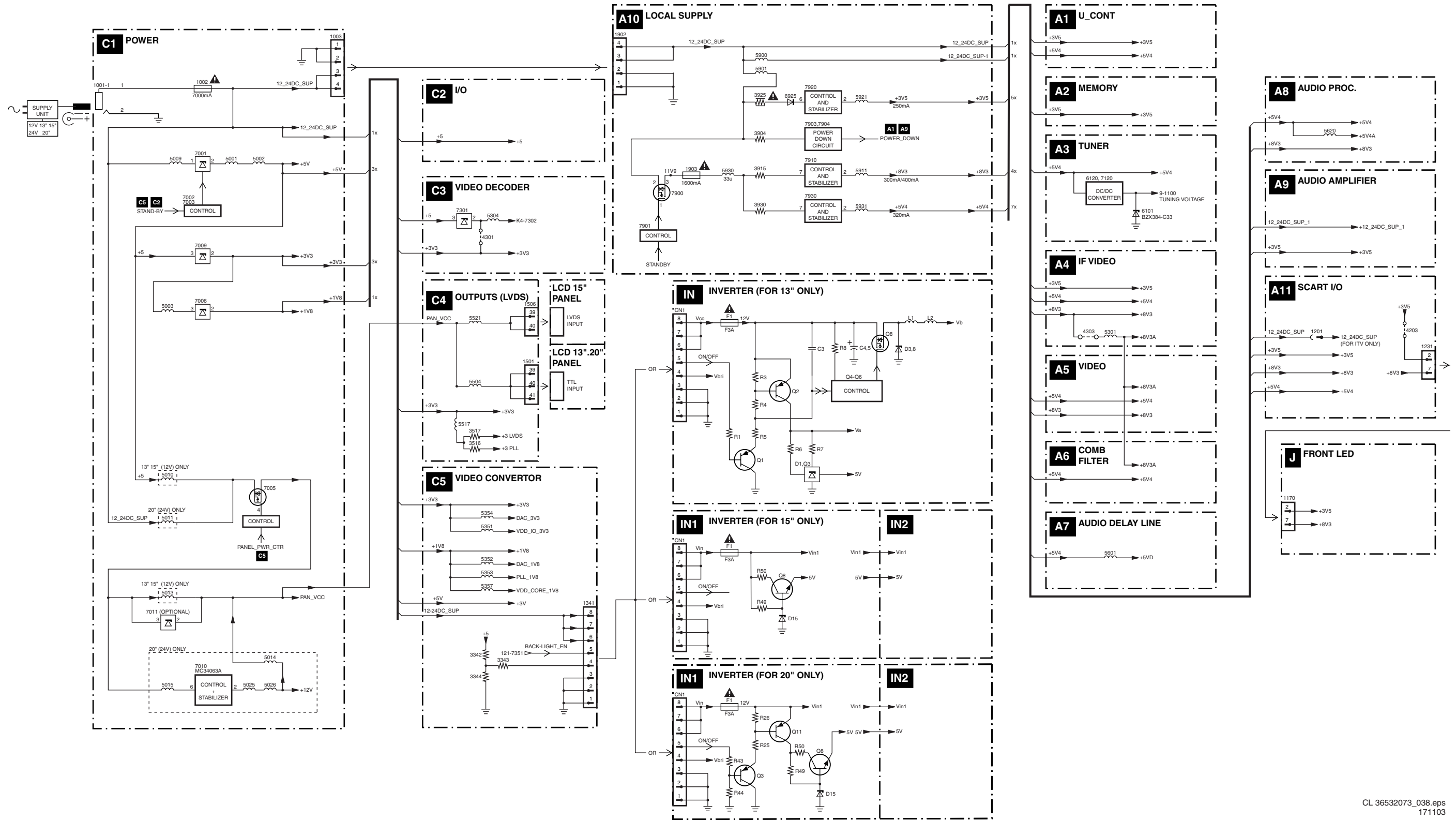
Block Diagram (TV Control and Inverter Panel)



Block Diagram (Scaler Board)



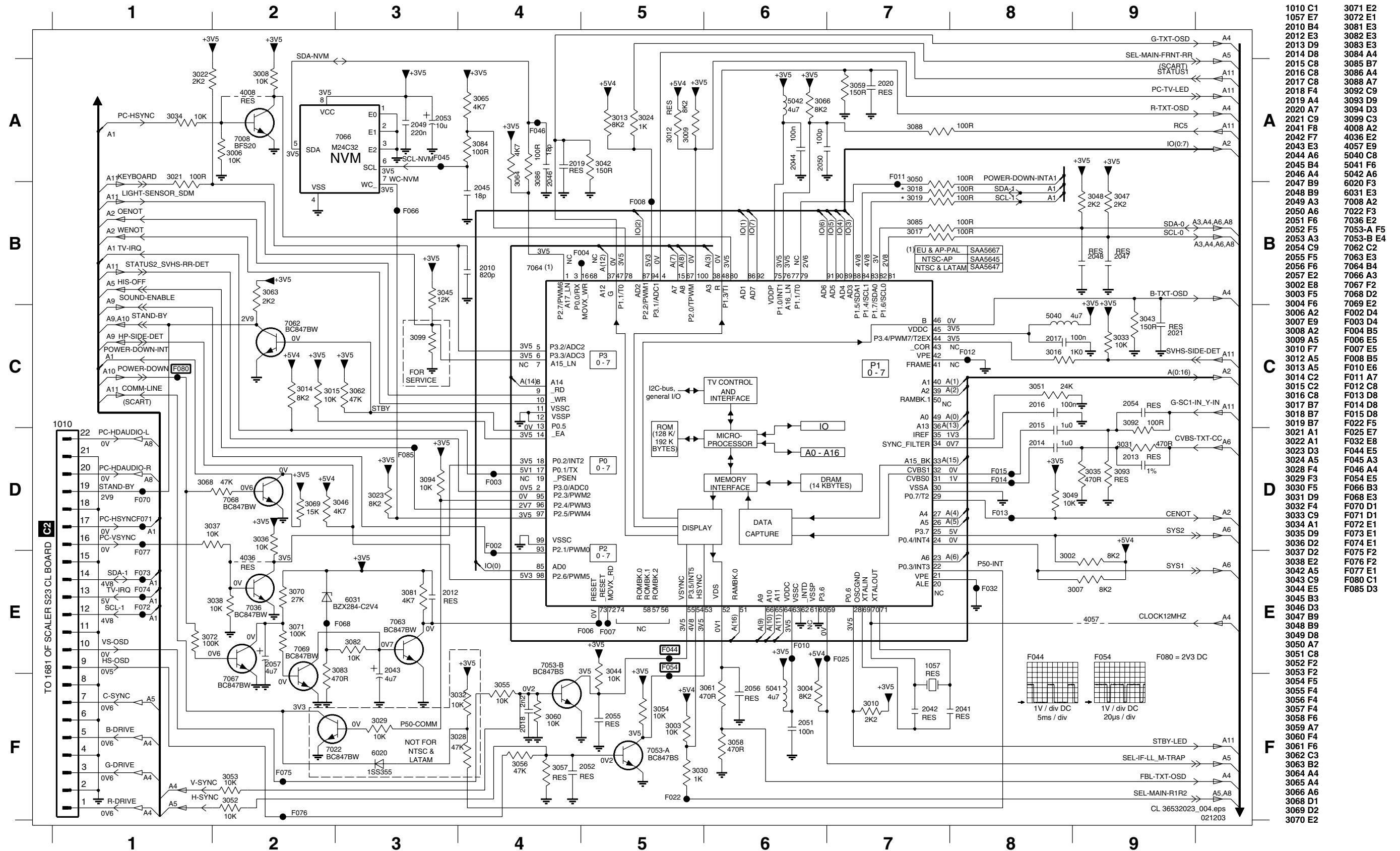
Powerlines Overview



7. Circuit Diagrams and PWB Layouts

TV Board: U_Cont

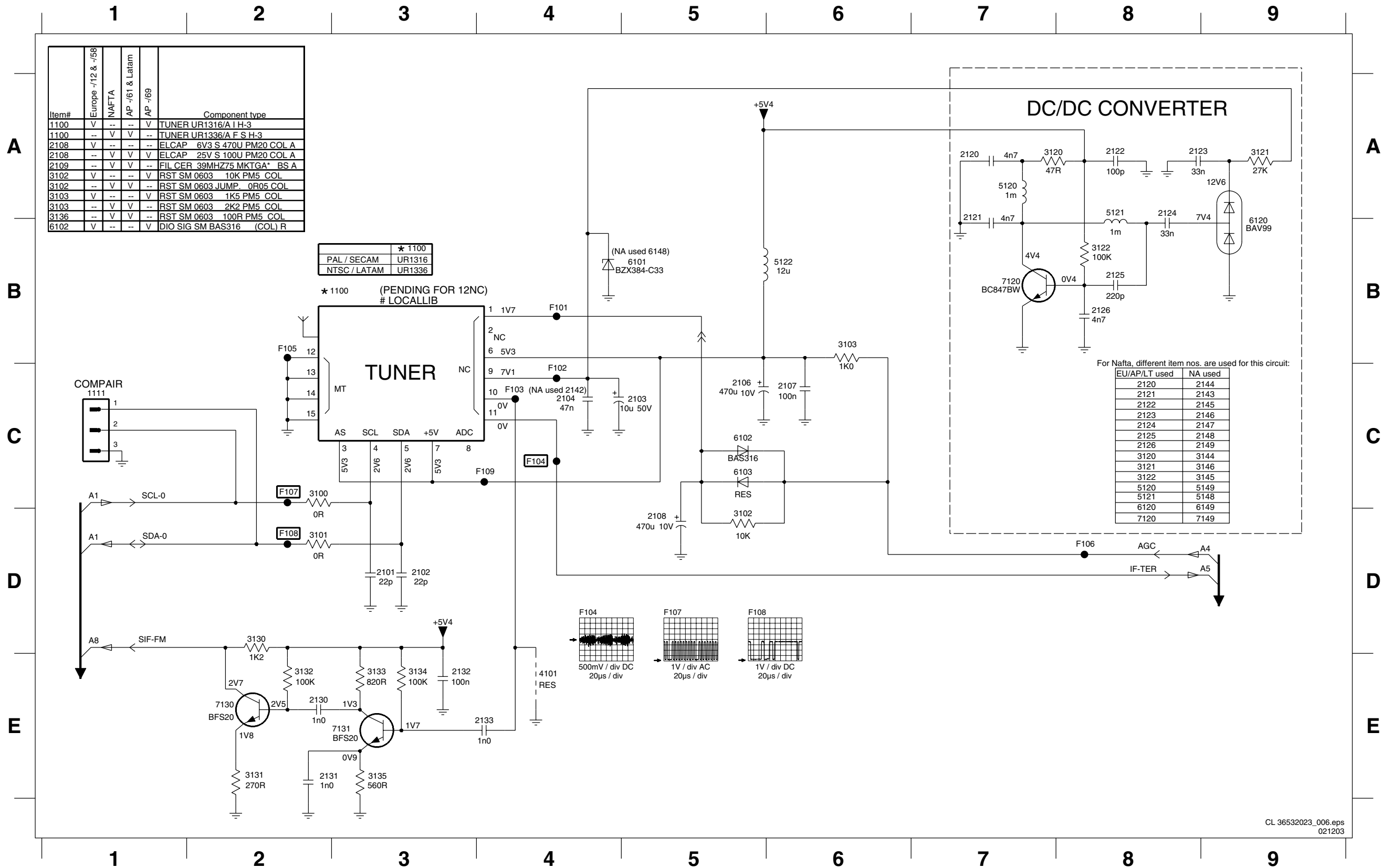
A1 U_CONT (COMMON) FOR DIVERSITY TABLE SEE DIAGRAM A2



- 1010 C1
- 1057 E7
- 2010 B4
- 2012 E3
- 2013 D9
- 2014 D8
- 2015 C8
- 2016 C8
- 2017 C8
- 2018 F4
- 2019 A4
- 2020 A7
- 2021 C9
- 2041 F8
- 2042 F7
- 2043 E3
- 2044 A6
- 2045 B4
- 2046 A4
- 2047 B9
- 2048 B9
- 2049 A3
- 2050 A6
- 2051 F6
- 2052 F5
- 2053 A3
- 2054 C9
- 2055 F5
- 2056 F6
- 2057 E2
- 3002 E8
- 3003 F5
- 3004 F6
- 3006 A2
- 3007 E9
- 3008 A2
- 3009 A5
- 3010 F7
- 3012 A5
- 3013 A5
- 3014 C2
- 3015 C2
- 3016 C8
- 3017 B7
- 3018 B7
- 3019 B7
- 3021 A1
- 3022 A1
- 3023 D3
- 3024 A5
- 3028 F4
- 3029 F3
- 3030 F5
- 3031 D9
- 3032 F4
- 3033 C9
- 3034 A1
- 3035 D9
- 3036 D2
- 3037 D2
- 3038 E2
- 3042 A5
- 3043 C9
- 3044 E5
- 3045 B3
- 3046 D3
- 3047 B9
- 3048 B9
- 3049 D8
- 3050 A7
- 3051 C8
- 3052 F2
- 3053 F2
- 3054 F5
- 3055 F4
- 3056 F4
- 3057 F4
- 3058 F6
- 3059 A7
- 3060 F4
- 3061 F6
- 3062 C3
- 3063 B2
- 3064 A4
- 3065 A4
- 3066 A6
- 3068 D1
- 3069 D2
- 3070 E2
- 3071 E1
- 3072 E1
- 3081 E3
- 3082 E3
- 3083 E3
- 3084 A4
- 3085 B7
- 3086 A4
- 3088 A7
- 3092 C9
- 3093 D9
- 3094 D3
- 3099 C3
- 4008 A2
- 4036 E2
- 4057 E9
- 5040 C8
- 5041 F6
- 5042 A6
- 6020 F3
- 6031 E3
- 7008 A2
- 7022 F3
- 7036 E2
- 7053-A F5
- 7053-B E4
- 7062 C2
- 7063 E3
- 7064 B4
- 7066 A3
- 7067 F2
- 7068 D2
- 7069 E2
- F002 D4
- F003 D4
- F004 B5
- F005 E5
- F007 E5
- F008 B5
- F010 E6
- F011 A7
- F012 C8
- F013 D8
- F014 D8
- F015 D8
- F022 F5
- F025 E7
- F032 E8
- F044 E5
- F045 A3
- F046 A4
- F054 E5
- F066 B3
- F068 E3
- F070 D1
- F071 D1
- F072 E1
- F073 E1
- F074 E1
- F075 F2
- F076 F2
- F077 E1
- F080 C1
- F085 D3

TV Board: Tuner Function

A3 TUNER FUNCTION (13"/15"/20" SCART)



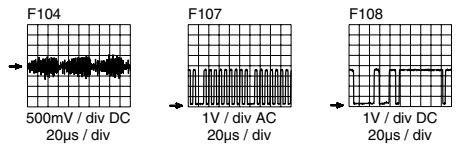
Item#	Europe -/12 & -/58	NAFTA	AP -/61 & Latam	AP -/69	Component type
1100	V	V	V	V	TUNER UR1316/A I H-3
1100	--	V	V	--	TUNER UR1336/A F S H-3
2108	V	--	--	--	ELCAP 6V3 S 470U PM20 COL A
2108	--	V	V	V	ELCAP 25V S 100U PM20 COL A
2109	--	V	V	--	FIL CER 39MHZ75 MKTGA* BS A
3102	V	--	--	V	RST SM 0603 10K PM5 COL
3102	--	V	V	--	RST SM 0603 JUMP. 0R05 COL
3103	V	--	--	V	RST SM 0603 1K5 PM5 COL
3103	--	V	V	--	RST SM 0603 2K2 PM5 COL
3136	--	V	V	--	RST SM 0603 100R PM5 COL
6102	V	--	--	V	DIO SIG SM BAS316 (COL) R

	* 1100
PAL / SECAM	UR1316
NTSC / LATAM	UR1336

* 1100 (PENDING FOR 12NC)
LOCALLIB

For Nafta, different item nos. are used for this circuit:

EU/AP/LT used	NA used
2120	2144
2121	2143
2122	2145
2123	2146
2124	2147
2125	2148
2126	2149
3120	3144
3121	3146
3122	3145
5120	5149
5121	5148
6120	6149
7120	7149



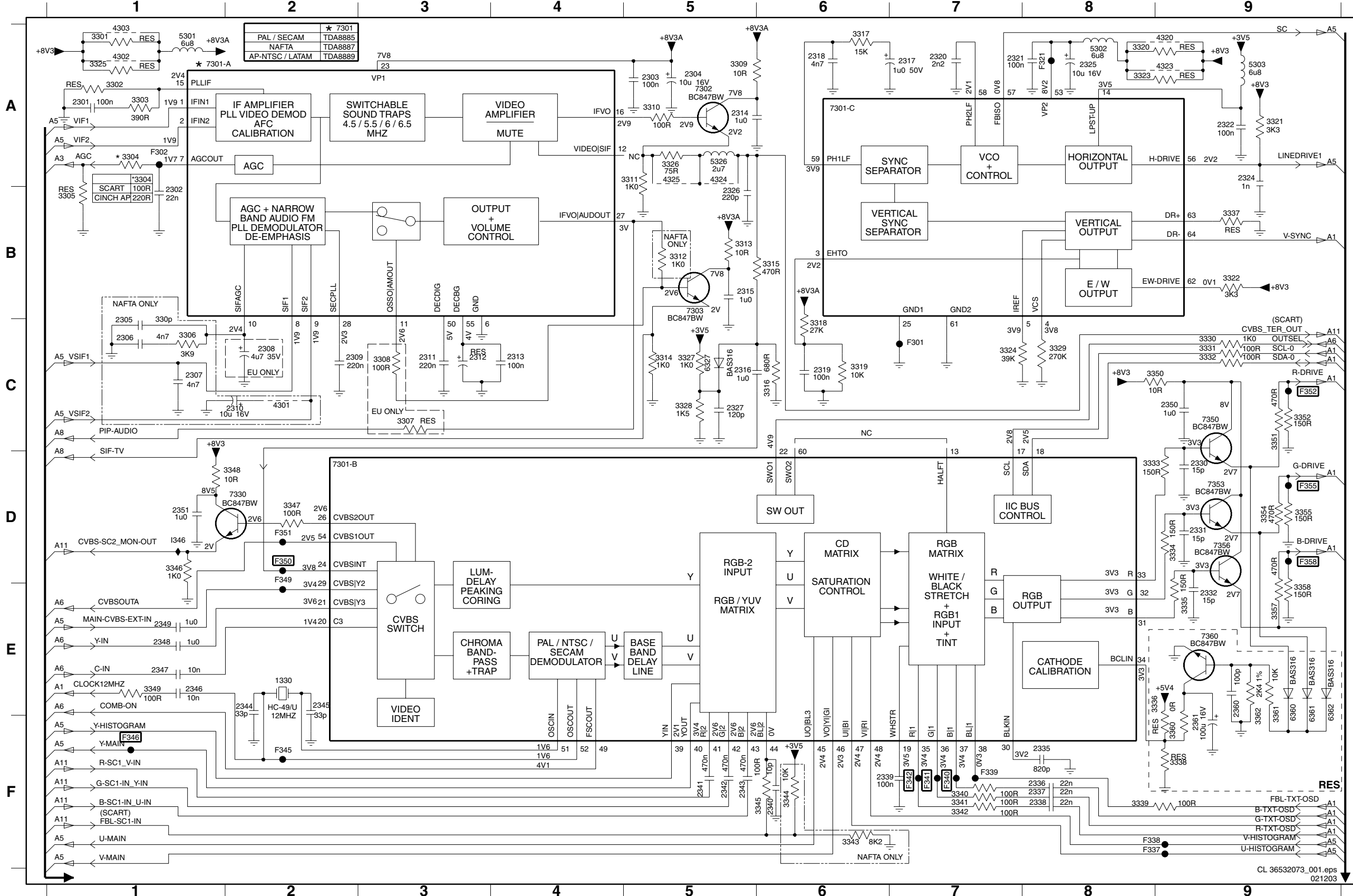
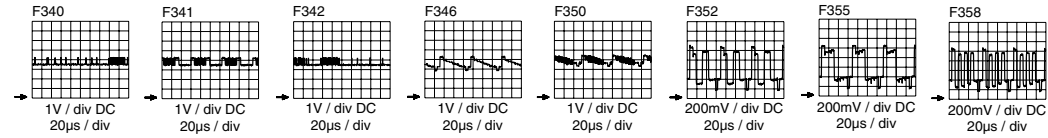
- 1100 B2
- 1111 C1
- 2101 D3
- 2102 D3
- 2103 C5
- 2104 C4
- 2106 C5
- 2107 C6
- 2108 D5
- 2120 A7
- 2121 A7
- 2122 A8
- 2123 A8
- 2124 A8
- 2125 B8
- 2126 B8
- 2130 E2
- 2131 E2
- 2132 E3
- 2133 E4
- 3100 C2
- 3101 D2
- 3102 D5
- 3103 B6
- 3120 A7
- 3121 A9
- 3122 B8
- 3130 D2
- 3131 E2
- 3132 E2
- 3133 E3
- 3134 E3
- 3135 E3
- 4101 E4
- 5120 A7
- 5121 A8
- 5122 B6
- 6101 B5
- 6102 C5
- 6103 C5
- 6120 B9
- 7120 B7
- 7130 E2
- 7131 E3
- F101 B4
- F102 C4
- F103 C4
- F104 C4
- F105 B2
- F106 C8
- F107 C2
- F108 D2
- F109 C4

TV Board: IF Video Sync Chroma

A4

IF-VIDEO -SYNC-CHROMA

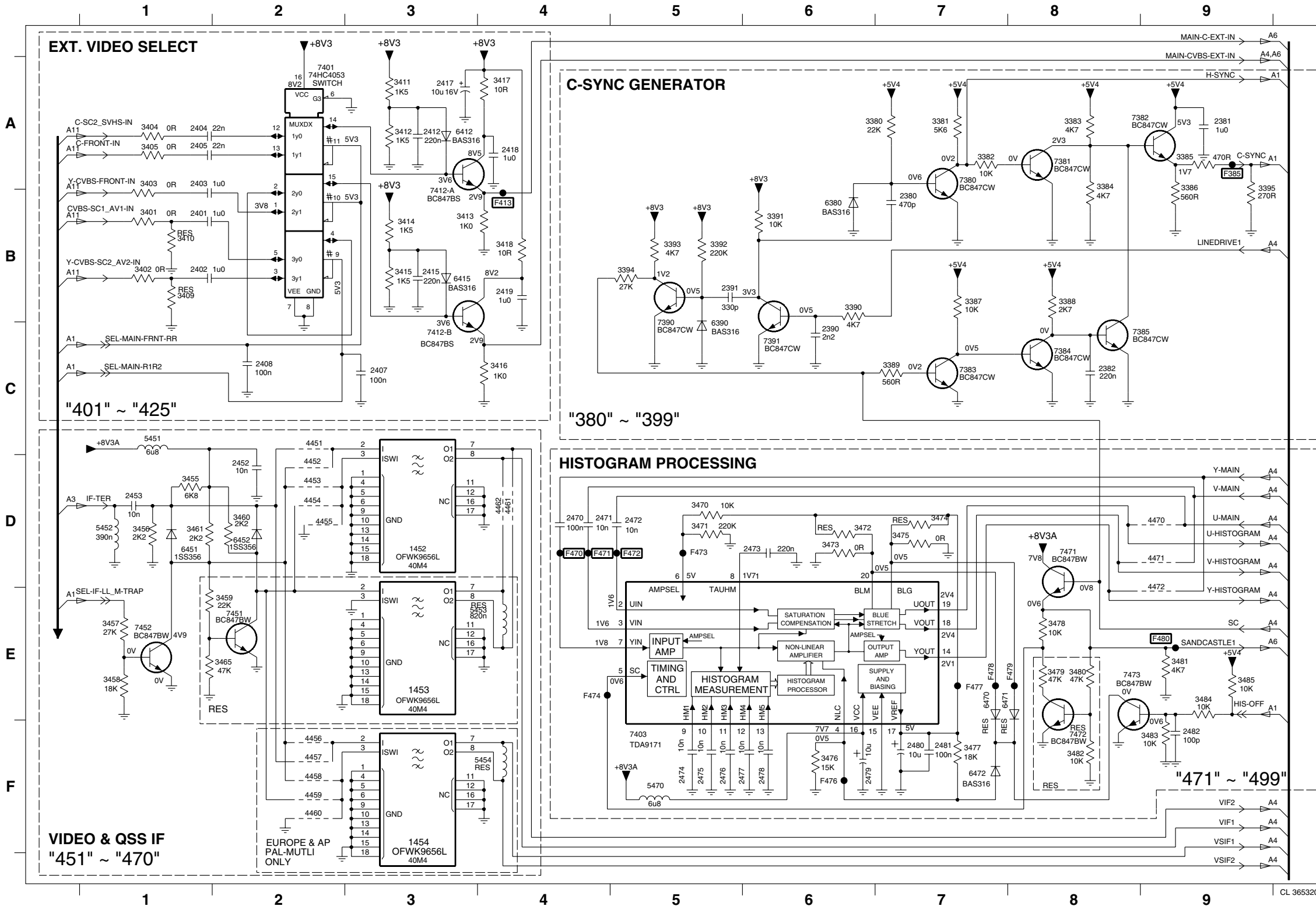
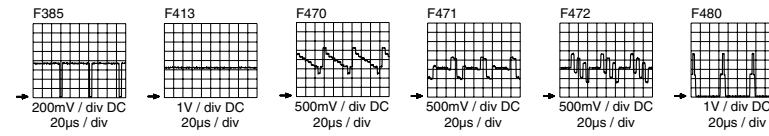
(13"/15"/20" SCART & CINCH EXCEPT CINCH3L)



- 1330 E2
- 2301 A1
- 2302 B1
- 2303 A5
- 2304 A5
- 2305 C1
- 2306 C1
- 2307 C1
- 2308 C2
- 2309 C2
- 2310 C2
- 2311 C3
- 2312 C3
- 2313 C4
- 2314 A5
- 2315 B5
- 2316 C5
- 2317 A7
- 2318 A6
- 2319 C6
- 2320 A7
- 2321 A7
- 2322 A9
- 2323 A8
- 2324 A9
- 2325 A8
- 2326 B5
- 2327 C5
- 2330 D9
- 2331 D9
- 2332 E9
- 2335 F8
- 2336 F8
- 2337 F8
- 2338 F8
- 2339 F6
- 2340 F6
- 2341 F5
- 2342 F5
- 2343 F5
- 2344 E2
- 2345 E2
- 2346 E1
- 2347 E1
- 2348 E1
- 2349 E1
- 2350 C9
- 2351 D1
- 2360 E9
- 2361 F9
- 3301 A1
- 3302 A1
- 3303 A1
- 3304 A1
- 3305 B1
- 3306 C1
- 3307 C3
- 3308 C3
- 3309 A5
- 3310 A5
- 3311 A5
- 3312 B5
- 3313 B5
- 3314 C5
- 3315 B6
- 3316 C6
- 3317 A6
- 3318 C6
- 3319 C6
- 3320 A8
- 3321 A9
- 3322 B9
- 3323 A8
- 3324 C7
- 3325 A1
- 3326 A5
- 3327 C5
- 3328 C5
- 3329 C8
- 3330 C9
- 3331 C9
- 3332 C9
- 3333 D8
- 3334 D9
- 3335 E9
- 3336 E8
- 3337 B9
- 3338 F8
- 3339 F8
- 3340 F7
- 3341 F7
- 3342 F7
- 3343 F6
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- 3346 D1
- 3347 D2
- 3348 D2
- 3349 E1
- 3350 C9
- 3351 C9
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- 3356 D9
- 3357 E9
- 3358 E9
- 3359 F9
- 3360 F9
- 3361 E9
- 3362 F9
- 3363 F9
- 3364 C2
- 3365 E9
- 3366 F9
- 3367 F9
- 3368 F9
- 3369 A1
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- 3373 A1
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- 3470 A1
- 3471 A1
- 3472 A1
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- 3475 A1
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- 3488 A1
- 3489 A1
- 3490 A1
- 3491 A1
- 3492 A1
- 3493 A1
- 3494 A1
- 3495 A1
- 3496 A1
- 3497 A1
- 3498 A1
- 3499 A1
- 3500 A1

TV Board: SAW Filter, Ext. Video Select, Histogram, & C-Sync Generator

A5 SAW FILTER, EXT. VIDEO SELECT, HISTOGRAM & C-SYNC GEN
(13"/15"/20" EUROPE & AP-PAL)



1452 D3	3484 E9
1453 E3	3485 E9
1454 F3	4451 C2
2380 B7	4452 D2
2381 A9	4453 D2
2382 C8	4454 D2
2390 C6	4455 D2
2391 B5	4456 F2
2401 B1	4457 F2
2402 B1	4458 F2
2403 A1	4459 F2
2404 A1	4460 F2
2405 A1	4461 D4
2407 C3	4462 D4
2408 C2	4470 D9
2412 A3	4471 D9
2415 B3	4472 E9
2417 A3	5451 C1
2418 A4	5452 D1
2419 B4	5453 E4
2452 D2	5454 F4
2453 D1	5470 F5
2470 D4	6380 B6
2471 D4	6390 C5
2472 D5	6412 A3
2473 D6	6415 B3
2474 F5	6451 D1
2475 F5	6452 D2
2476 F5	6470 E7
2477 F6	6471 E7
2478 F6	6472 F7
2479 F6	7380 A7
2480 F7	7381 A8
2481 F7	7382 A8
2482 F9	7383 C7
3380 A6	7384 C8
3381 A7	7385 C8
3382 A7	7390 C5
3383 A8	7391 C6
3384 A8	7401 A2
3385 A9	7403 F5
3386 A9	7412-A B3
3387 B7	7412-B C3
3388 B8	7451 E2
3389 C7	7452 E1
3390 B6	7471 D8
3391 B6	7472 F8
3392 B5	7473 E8
3393 B5	F385 A9
3394 B5	F413 B4
3395 A9	F470 D4
3401 B1	F471 D4
3402 B1	F472 D5
3403 A1	F473 D5
3404 A1	F474 E4
3405 A1	F476 F6
3409 B1	F477 E7
3410 B1	F478 E7
3411 A3	F479 E8
3412 A3	F480 E9
3413 B3	
3414 B3	
3415 B3	
3416 C4	
3417 A4	
3418 B4	
3455 D1	
3456 D1	
3457 E1	
3458 E1	
3459 E2	
3460 D2	
3461 D1	
3465 E2	
3470 D5	
3471 D5	
3472 D6	
3473 D6	
3474 D7	
3475 D7	
3476 F6	
3477 F7	
3478 E8	
3479 E8	
3480 E8	
3481 E9	
3482 F8	
3483 F9	

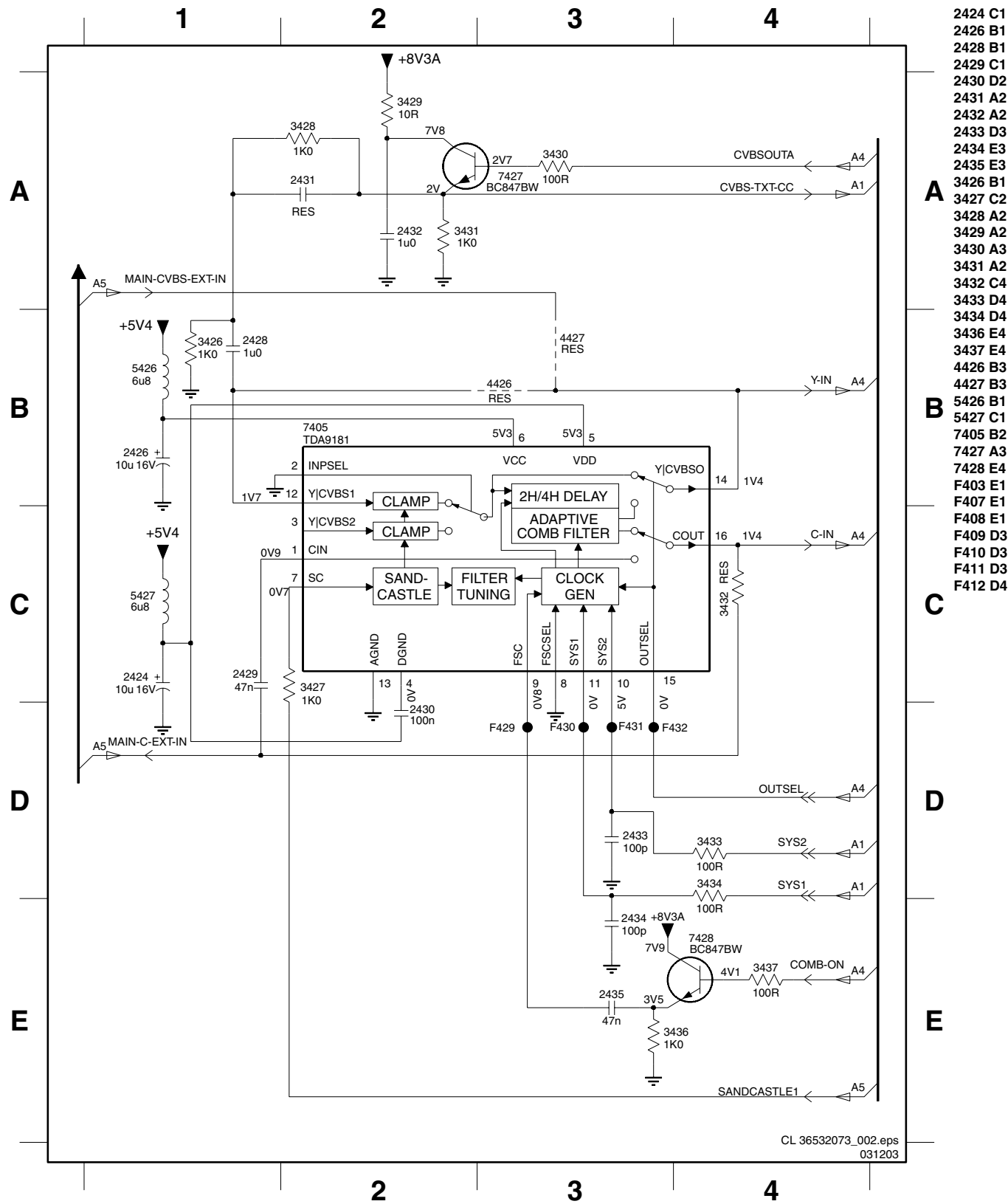
Item#	Europe	NAFTA	AP-PAL	AP-NTSC/Latin	Component type
1452	V	-	-	-	FIL SAW SM 38MHZ9 OFWK3953L R
1453	V	-	-	-	FIL SAW SM 45MHZ75 OFWM1967L R
1454	V	-	-	-	FIL SAW SM 38MHZ9 OFWK7265L R
1454	V	-	-	-	FIL SAW SM 38MHZ9 OFWK9656L R
1454	V	-	-	-	FIL SAW SM 38MHZ9 OFWK9361L R
2452	V	-	-	-	CER2 0603 X7R 50V 10N COL
2453	V	-	-	-	CER2 0603 X7R 50V 10N COL
3455	V	-	-	-	RST SM 0603 6K9 PM5 COL
3456	V	-	-	-	RST SM 0603 2K2 PM5 COL
3457	V	-	-	-	RST SM 0603 27K PM5 COL
3458	V	-	-	-	RST SM 0603 18K PM5 COL
3461	V	-	-	-	RST SM 0603 2K2 PM5 COL
4453	V	-	-	-	RST SM 0603 JUMP_0R05 COL
4455	V	-	-	-	RST SM 0603 JUMP_0R05 COL
4457	V	-	-	-	RST SM 0603 JUMP_0R05 COL
4459	V	-	-	-	RST SM 0603 JUMP_0R05 COL
4460	V	-	-	-	RST SM 0603 JUMP_0R05 COL
5451	V	-	-	-	FXDIND SM 1008 6U8 PM5 COL R
5452	V	-	-	-	FXDIND SM 0805 0U39 PM10 COL R
5452	V	-	-	-	FXDIND SM 0805 0U82 PM10 COL R
6451	V	-	-	-	DIO SIG SM 1SS356 (RH00) R
7452	V	-	-	-	TRA SIG SM BC847BW (COL) R

TV Board: Analog Comb Filter

A6 ANALOG COMB FILTER

(13"/15"/20" SCART & CINCH EXCEPT CINCH3L)

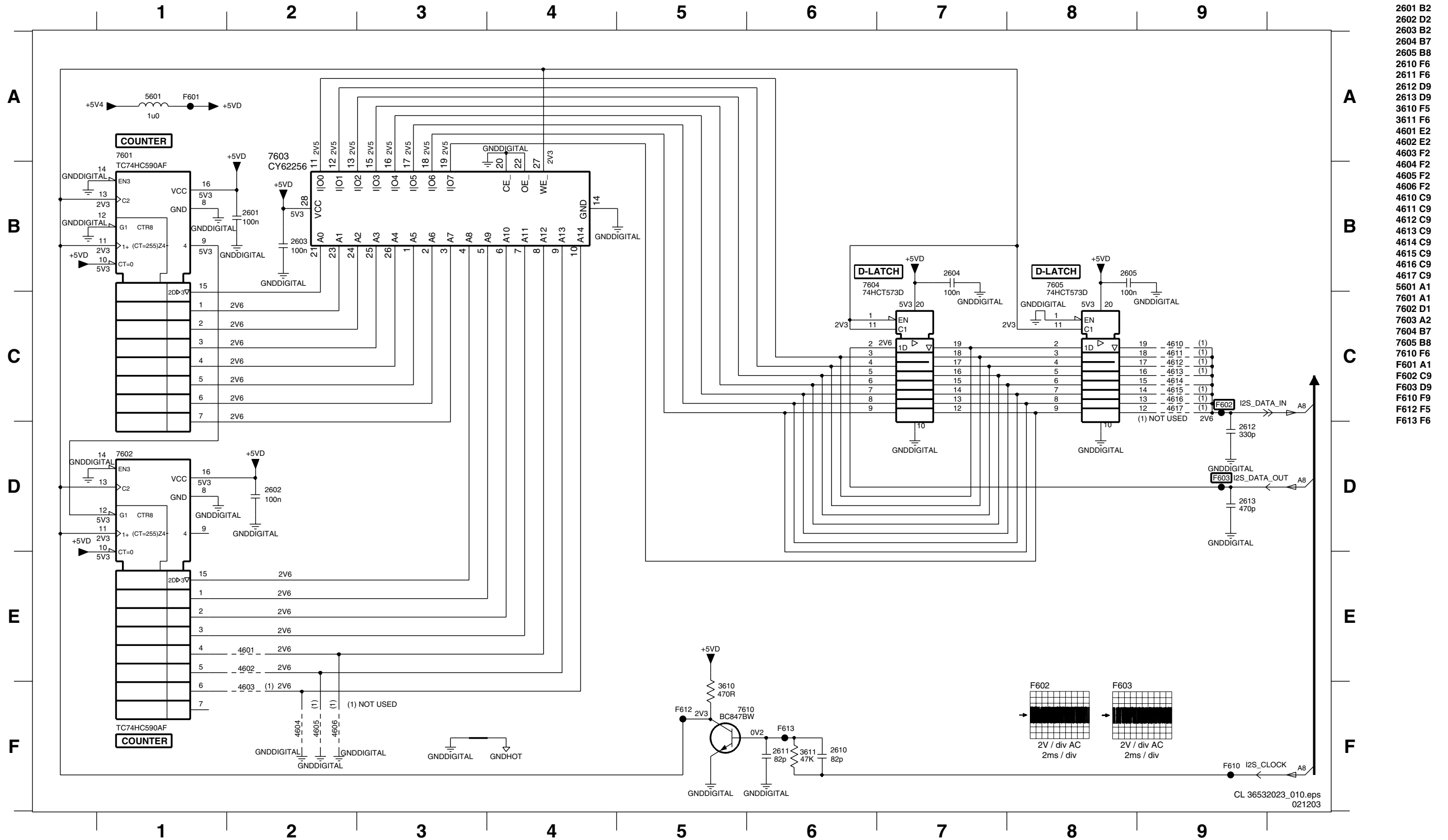
Personal Notes:



- 2424 C1
- 2426 B1
- 2428 B1
- 2429 C1
- 2430 D2
- 2431 A2
- 2432 A2
- 2433 D3
- 2434 E3
- 2435 E3
- 3426 B1
- 3427 C2
- 3428 A2
- 3429 A2
- 3430 A3
- 3431 A2
- 3432 C4
- 3433 D4
- 3434 D4
- 3436 E4
- 3437 E4
- 4426 B3
- 4427 B3
- 5426 B1
- 5427 C1
- 7405 B2
- 7427 A3
- 7428 E4
- F403 E1
- F407 E1
- F408 E1
- F409 D3
- F410 D3
- F411 D3
- F412 D4

TV Board: Audio Delay Line

A7 AUDIO DELAY LINE (COMMON)

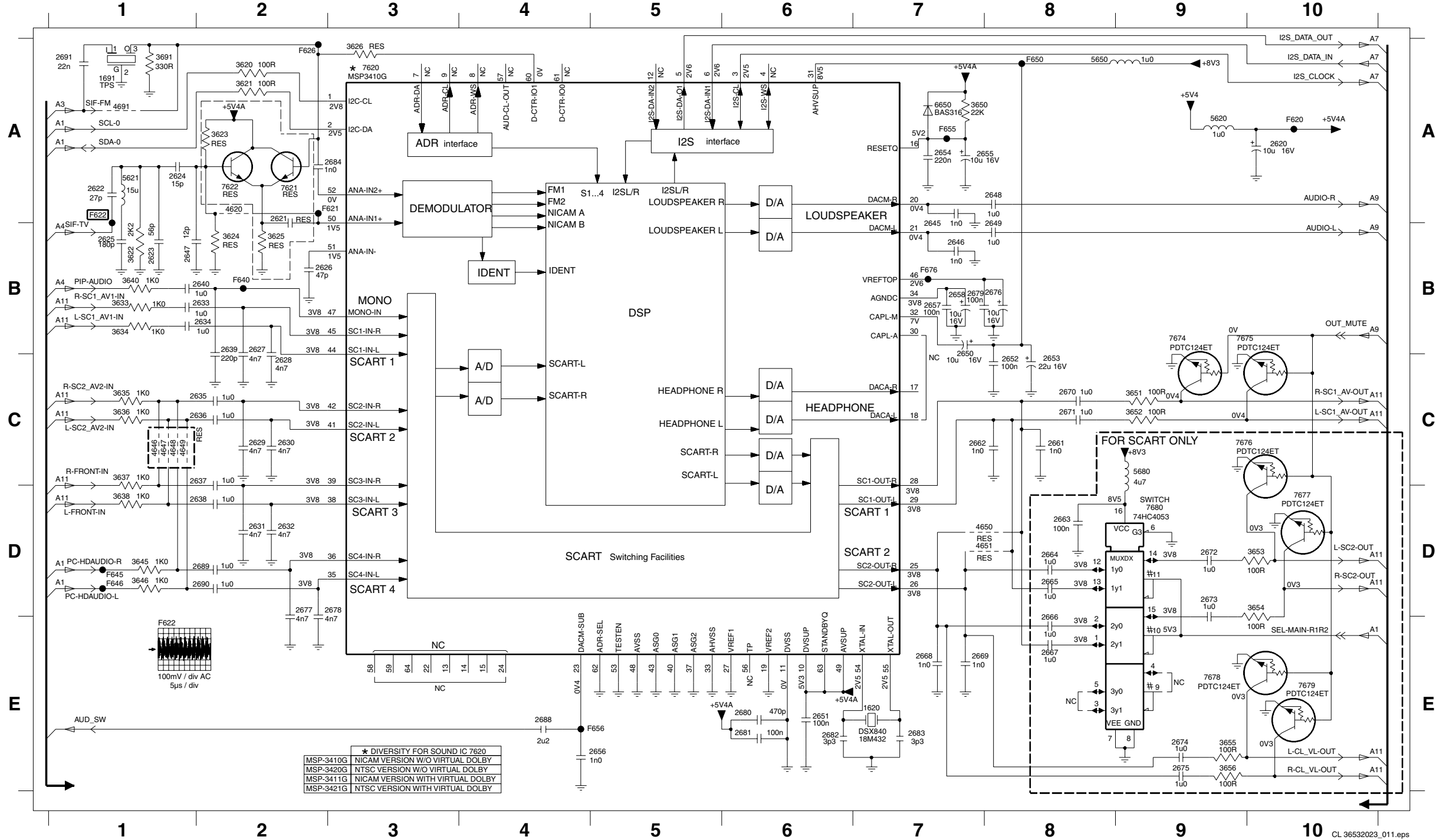


- 2601 B2
- 2602 D2
- 2603 B2
- 2604 B7
- 2605 B8
- 2610 F6
- 2611 F6
- 2612 D9
- 2613 D9
- 3610 F5
- 3611 F6
- 4601 E2
- 4602 E2
- 4603 F2
- 4604 F2
- 4605 F2
- 4606 F2
- 4610 C9
- 4611 C9
- 4612 C9
- 4613 C9
- 4614 C9
- 4615 C9
- 4616 C9
- 4617 C9
- 5601 A1
- 7601 A1
- 7602 D1
- 7603 A2
- 7604 B7
- 7605 B8
- 7610 F6
- F601 A1
- F602 C9
- F603 D9
- F610 F9
- F612 F5
- F613 F6

TV Board: Audio Processing

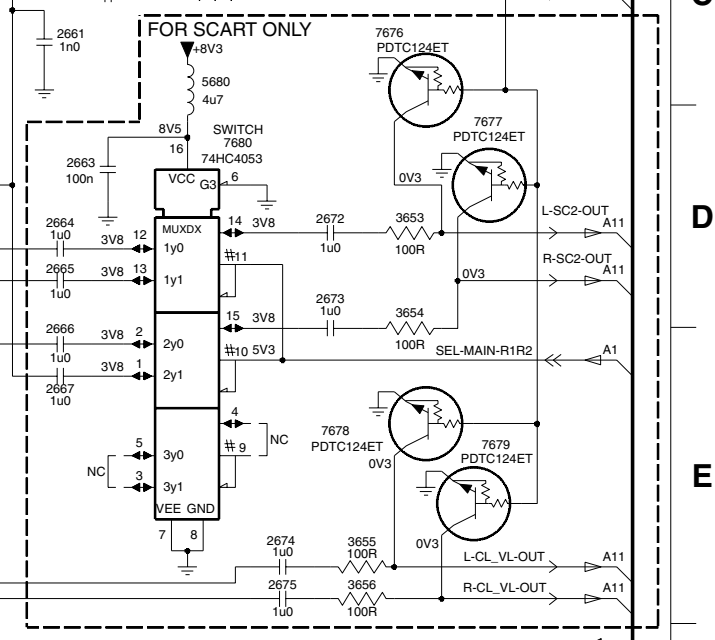
A8 AUDIO PROCESSING (COMMON)

1620 E7	2623 B1	2628 C2	2633 B2	2638 D2	2647 B1	2652 C8	2657 B7	2664 D8	2669 E7	2674 E9	2679 B7	2684 A3	3620 A2	3625 B2	3636 C1	3646 D1	3654 D10	4646 C1	4651 D7	5680 C9	7674 B9	7679 E10	F626 A2	F655 A7
1691 A1	2624 A1	2629 C2	2634 B2	2639 B2	2648 A8	2653 C8	2658 B7	2665 D8	2670 C8	2675 E9	2680 E6	2688 E4	3621 A2	3626 A3	3637 C1	3650 A7	3655 E9	4647 C1	4691 A1	6650 A7	7675 B10	7680 D9	F640 B2	F656 E5
2620 A10	2625 B1	2630 C2	2635 C2	2640 B2	2649 B8	2654 A7	2661 C8	2666 E8	2671 C8	2676 B8	2681 E6	2689 D2	3622 B1	3633 B1	3638 D1	3651 C9	3656 E9	4648 C1	5620 A9	7620 A3	7676 C10	F620 A10	F645 D1	F676 B7
2621 A2	2626 B2	2631 D2	2636 C2	2645 B7	2650 C7	2655 A8	2662 C7	2667 E8	2672 D9	2677 D2	2682 E6	2690 D2	3623 A2	3634 B1	3640 B1	3652 C9	3691 A1	4649 C1	5621 A1	7621 A2	7677 D10	F621 A3	F646 D1	F676 B7
2622 A1	2627 B2	2632 D2	2637 C2	2646 B7	2651 E6	2656 E5	2663 D8	2668 E7	2673 D9	2678 D3	2683 E7	2691 A1	3624 B2	3635 C1	3645 D1	3653 D10	4620 A2	4650 D7	5650 A8	7622 A2	7678 E9	F622 A1	F650 A8	



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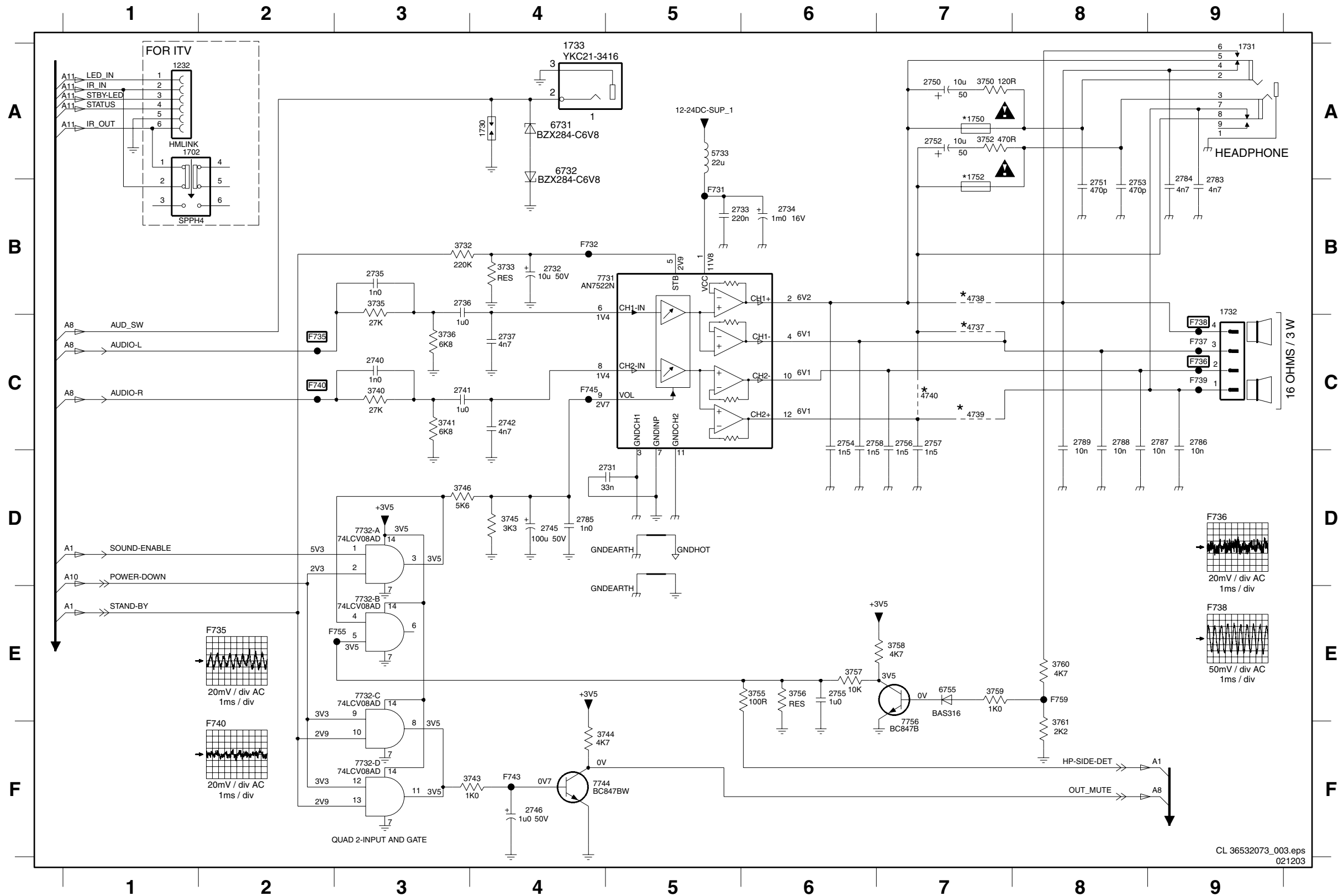
MSP-3410G	NICAM VERSION W/O VIRTUAL DOLBY
MSP-3420G	NTSC VERSION W/O VIRTUAL DOLBY
MSP-3411G	NICAM VERSION WITH VIRTUAL DOLBY
MSP-3421G	NTSC VERSION WITH VIRTUAL DOLBY



Item#	Component type
2663	CER2 0603 X7R 16V 100N COL
2664	CER2 0603 Y5V 10V 1U COL
2665	CER2 0603 Y5V 10V 1U COL
2666	CER2 0603 Y5V 10V 1U COL
2667	CER2 0603 Y5V 10V 1U COL
2672	CER2 0603 Y5V 10V 1U COL
2673	CER2 0603 Y5V 10V 1U COL
2674	CER2 0603 Y5V 10V 1U COL
2675	CER2 0603 Y5V 10V 1U COL
3653	RST SM 0603 100R PMS COL
3654	RST SM 0603 100R PMS COL
3655	RST SM 0603 100R PMS COL
3656	RST SM 0603 100R PMS COL
5680	FXDIND SM 1008 4U7 PM5 COL R
7620	IC SM MSP3420G-QL-BB-V3(MIAS) Y
7620	IC SM MSP3410G-QL-C12 (MIAS) Y
7676	TRA SIG SM PDMC124ET (COL) R
7677	TRA SIG SM PDMC124ET (COL) R
7678	TRA SIG SM PDMC124ET (COL) R
7679	TRA SIG SM PDMC124ET (COL) R
7680	IC SM 74HC4053PW (PHSE) R

TV Board: Audio Amplifier

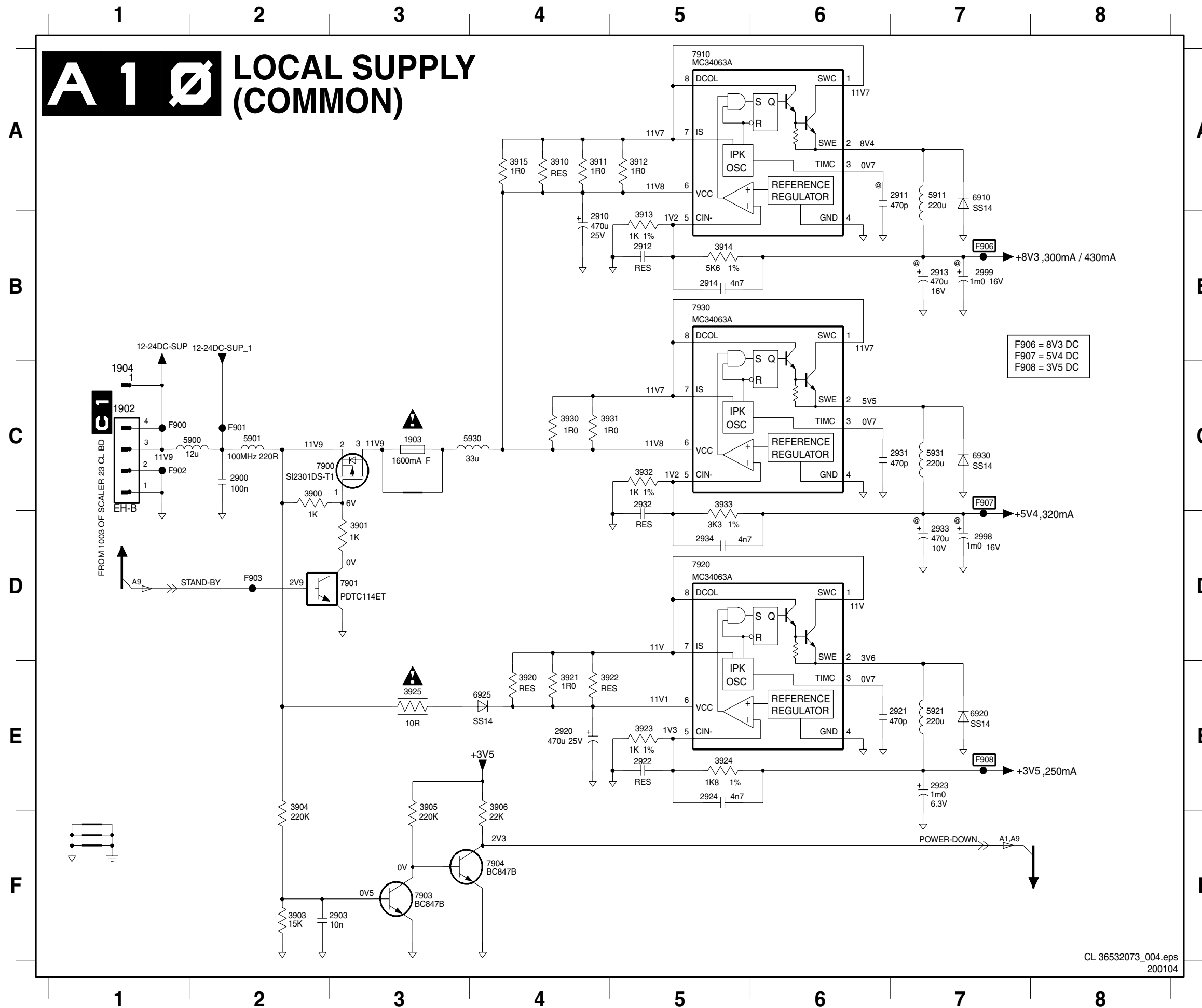
A9 AUDIO AMPLIFIER



- 1232 A1
- 1702 A1
- 1730 A4
- 1731 A9
- 1732 B9
- 1733 A4
- 1750 A7
- 1752 B7
- 2731 D5
- 2732 B4
- 2733 B5
- 2734 B6
- 2735 B3
- 2736 B3
- 2737 C4
- 2740 C3
- 2741 C3
- 2742 C4
- 2745 D4
- 2746 F4
- 2750 A7
- 2751 B8
- 2752 A7
- 2753 B8
- 2754 C6
- 2755 E6
- 2756 C7
- 2757 C7
- 2758 C6
- 2763 A9
- 2764 A9
- 2765 D4
- 2786 C9
- 2787 C9
- 2788 C8
- 2789 C8
- 3732 B3
- 3733 B4
- 3735 B3
- 3736 C3
- 3740 C3
- 3741 C3
- 3743 F4
- 3744 F5
- 3745 D4
- 3746 D3
- 3750 A7
- 3752 A7
- 3755 E6
- 3756 E6
- 3757 E6
- 3758 E7
- 3759 E7
- 3760 E8
- 3761 E8
- 4737 C7
- 4738 B7
- 4739 C7
- 4740 C7
- 5733 A5
- 6731 A4
- 6732 A4
- 6755 E7
- 7731 B5
- 7732-A D3
- 7732-B E3
- 7732-C E3
- 7732-D F3
- 7744 F4
- 7756 F7
- F731 B5
- F732 B4
- F735 C2
- F736 C9
- F737 C9
- F739 C9
- F740 C2
- F743 F4
- F745 C4
- F745 E3
- F759 E8

TV Board: Local Supply

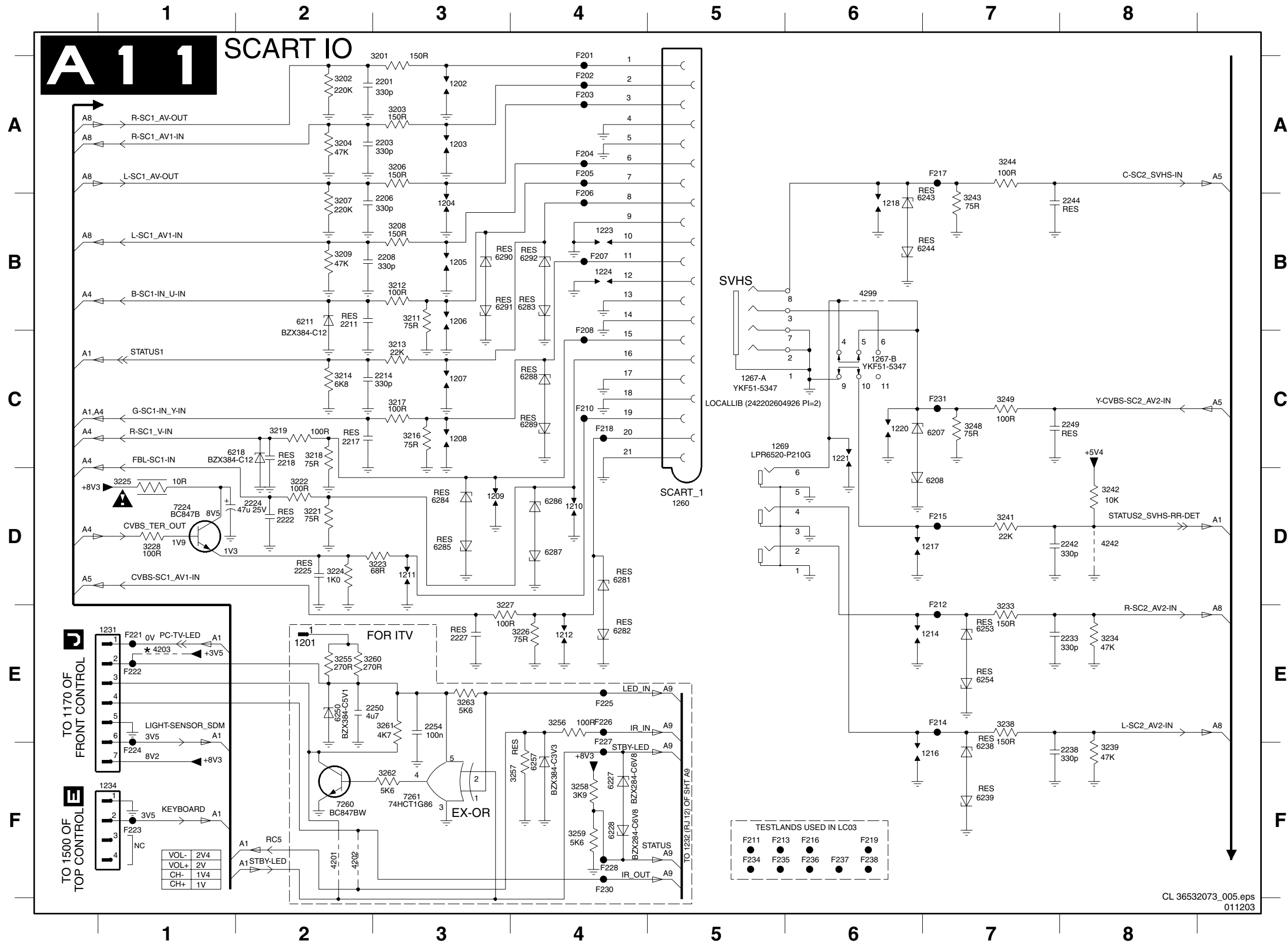
A 1 LOCAL SUPPLY (COMMON)



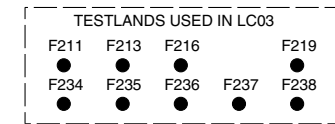
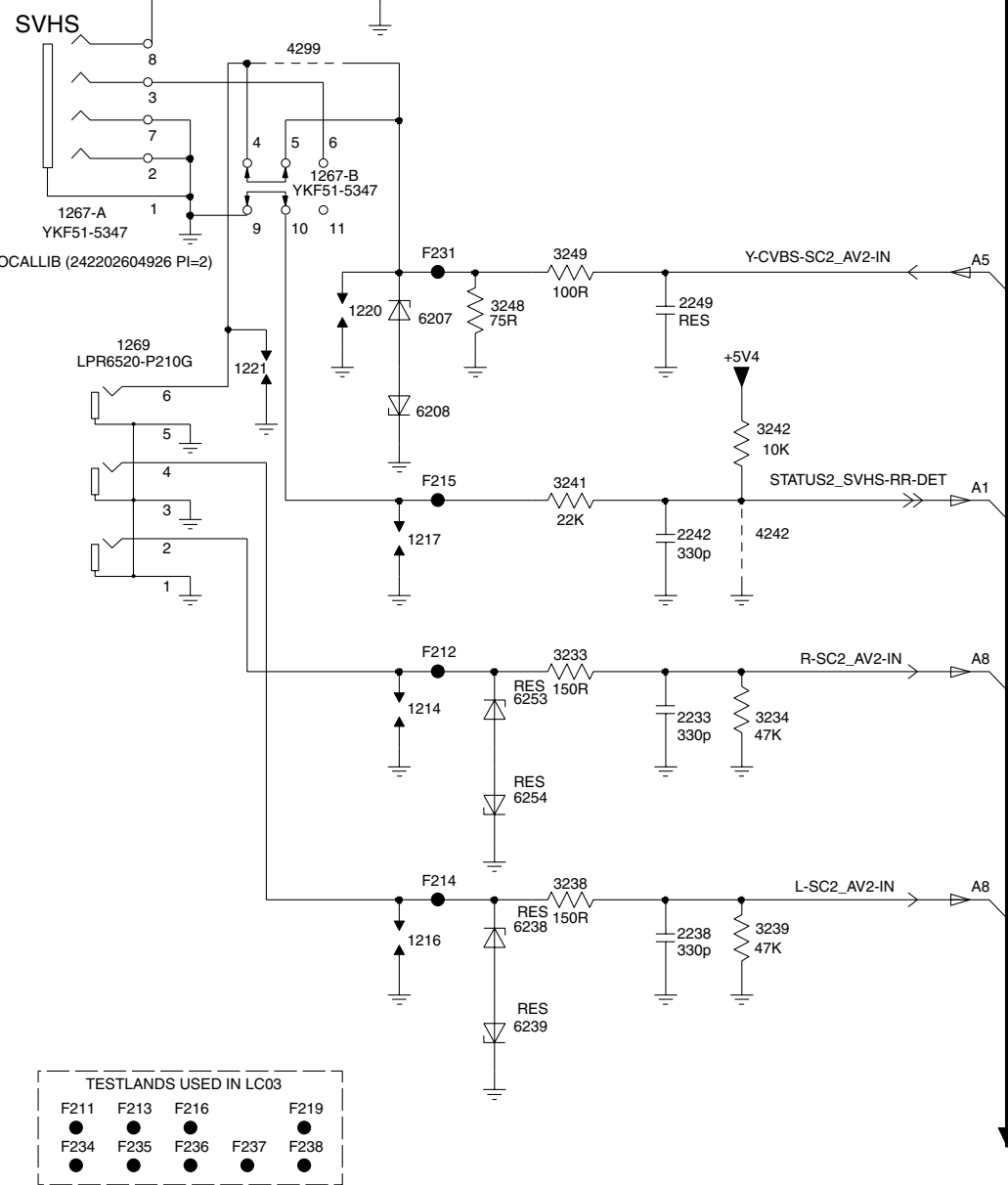
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F907 = 5V4 DC
F908 = 3V5 DC

- 1902 C1
- 1903 C3
- 1904 C1
- 2900 C2
- 2903 F3
- 2910 B4
- 2911 A7
- 2912 B5
- 2913 B7
- 2914 B5
- 2920 E4
- 2921 E7
- 2922 E5
- 2923 E7
- 2924 E5
- 2931 C7
- 2932 C5
- 2933 D7
- 2934 D5
- 2998 D7
- 2999 B7
- 3900 C2
- 3901 D3
- 3903 F2
- 3904 E2
- 3905 E3
- 3906 E4
- 3910 A4
- 3911 A4
- 3912 A5
- 3913 B5
- 3914 B5
- 3915 A4
- 3920 E4
- 3921 E4
- 3922 E4
- 3923 E5
- 3924 E5
- 3925 E3
- 3930 C4
- 3931 C4
- 3932 C5
- 3933 C5
- 5900 C2
- 5901 C2
- 5911 A7
- 5921 E7
- 5930 C4
- 5931 C7
- 6910 A7
- 6920 E7
- 6925 E4
- 6930 C7
- 7900 C2
- 7901 D3
- 7903 F3
- 7904 F4
- 7910 A5
- 7920 D5
- 7930 B5
- F900 C1
- F901 C2
- F902 C1
- F903 D2
- F906 B7
- F907 C7
- F908 E7

TV Board: SCART I/O

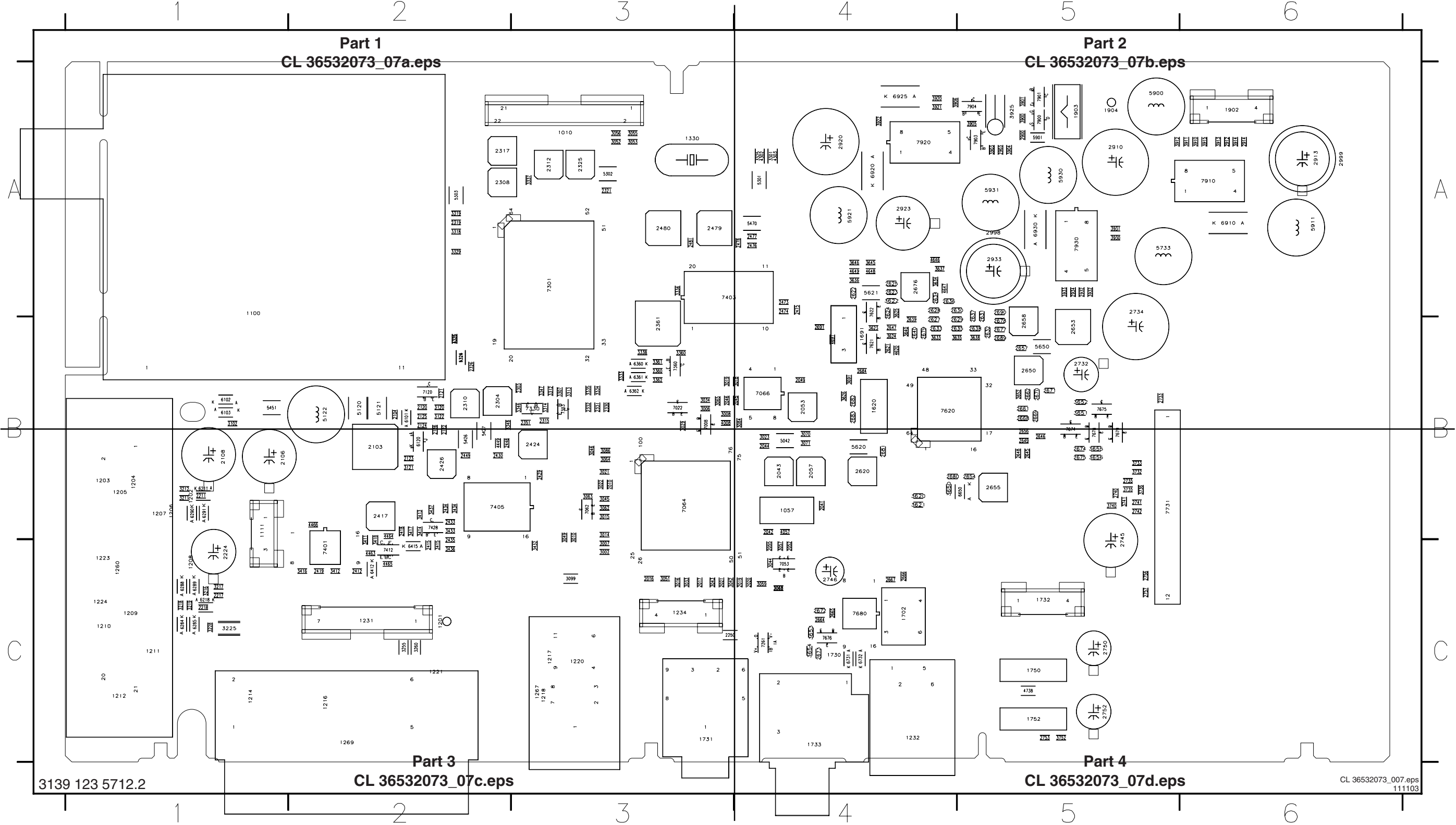


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|-----------|---------|
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| 1202 A3 | 3258 F4 |
| 1203 A3 | 3259 F4 |
| 1204 B3 | 3260 E2 |
| 1205 B3 | 3261 E3 |
| 1206 B3 | 3262 F3 |
| 1207 C3 | 3263 E3 |
| 1208 C3 | 4201 F2 |
| 1209 D3 | 4202 F2 |
| 1210 D4 | 4203 E1 |
| 1211 D3 | 4242 D8 |
| 1212 E4 | 4299 B6 |
| 1214 E7 | 6207 C7 |
| 1216 F7 | 6208 D7 |
| 1217 D7 | 6211 B2 |
| 1218 B6 | 6218 C2 |
| 1220 C6 | 6227 F4 |
| 1221 C6 | 6228 F4 |
| 1223 B4 | 6238 F7 |
| 1224 B4 | 6239 F7 |
| 1231 E1 | 6243 B7 |
| 1234 F1 | 6244 B7 |
| 1260 D5 | 6250 E2 |
| 1267-A C5 | 6253 E7 |
| 1267-B C6 | 6254 F7 |
| 1268-1 F5 | 6257 E4 |
| 1268-2 E5 | 6281 D4 |
| 1269 C5 | 6282 E4 |
| 2201 A3 | 6283 B4 |
| 2203 A3 | 6284 D3 |
| 2206 B3 | 6285 D3 |
| 2208 B3 | 6286 D4 |
| 2211 B2 | 6287 D4 |
| 2214 C3 | 6288 C4 |
| 2217 C2 | 6289 C4 |
| 2218 C2 | 6290 B3 |
| 2222 D2 | 6291 B3 |
| 2224 D2 | 6292 B4 |
| 2225 D2 | 7224 D1 |
| 2227 E3 | 7260 F2 |
| 2233 E8 | 7261 F3 |
| 2238 F8 | F201 A4 |
| 2242 D8 | F202 A4 |
| 2244 B8 | F203 A4 |
| 2249 C8 | F204 A4 |
| 2250 E3 | F205 A4 |
| 2254 E3 | F206 B4 |
| 3201 A3 | F207 B4 |
| 3202 A2 | F208 C4 |
| 3203 A3 | F210 C4 |
| 3204 A2 | F212 E7 |
| 3206 A3 | F214 E7 |
| 3207 B2 | F215 D7 |
| 3208 B3 | F217 A7 |
| 3209 B2 | F218 C4 |
| 3211 B3 | F221 E1 |
| 3212 B3 | F222 E1 |
| 3213 C3 | F223 F1 |
| 3214 C2 | F224 F1 |
| 3216 C3 | F225 E4 |
| 3217 C3 | F226 E4 |
| 3218 C2 | F227 F4 |
| 3219 C2 | F228 F4 |
| 3221 D2 | F230 F4 |
| 3222 D2 | F231 C7 |
| 3223 D3 | |
| 3224 D2 | |
| 3225 D1 | |
| 3226 E4 | |
| 3227 E3 | |
| 3228 D1 | |
| 3233 E7 | |
| 3234 E8 | |
| 3238 E7 | |
| 3239 F8 | |
| 3241 D7 | |
| 3242 D8 | |
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| 3249 C7 | |
| 3255 E2 | |
| 3256 E4 | |

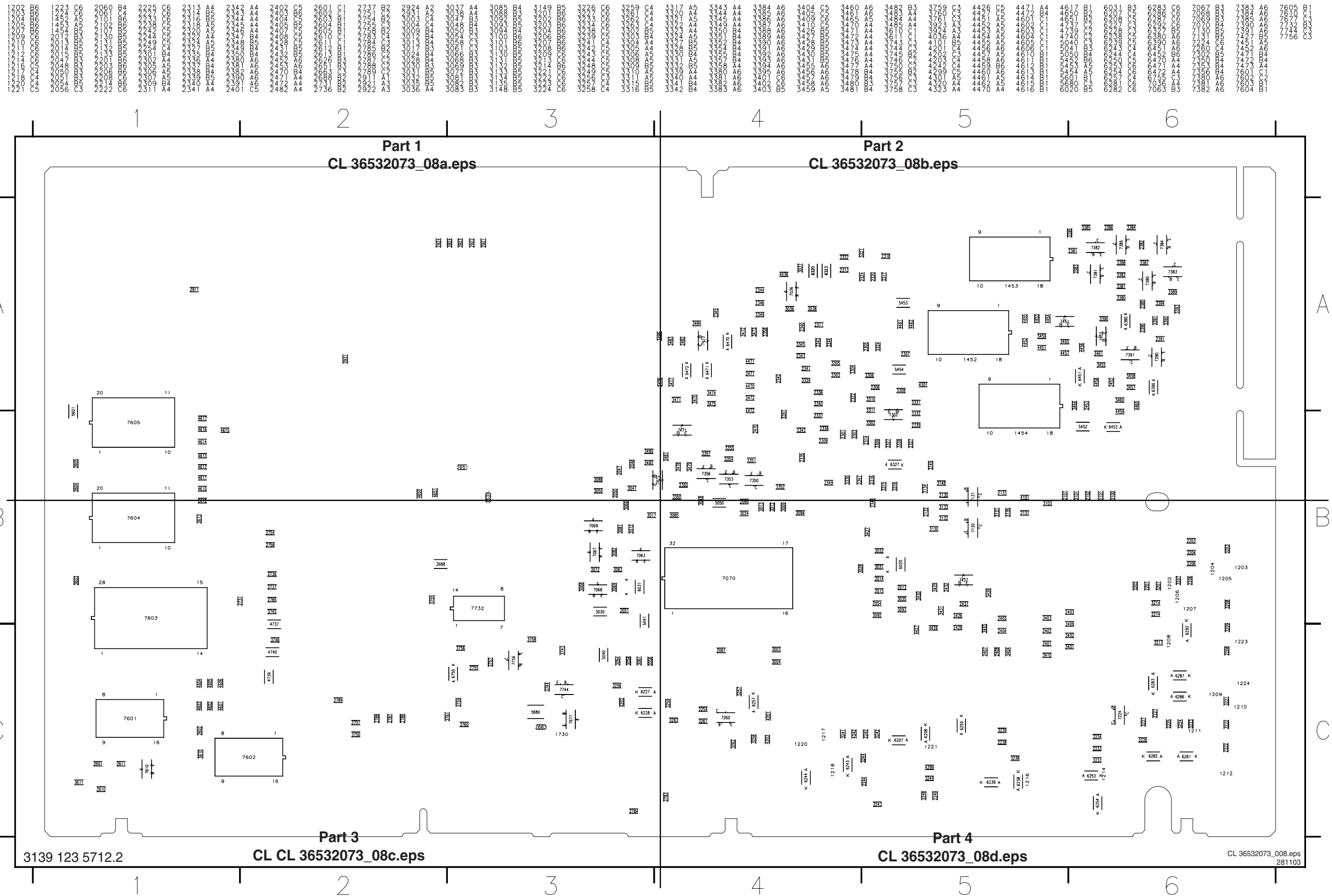


Layout TV Board (13"/15") (Overview Top Side)

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1057 B4	1702 C4	2020 C4	2106 B1	2304 B2	2361 B3	2473 A4	2627 B4	2646 B5	2665 C4	2680 B4	2745 C5	2932 A5	3021 B3	3055 A3	3120 B2	3312 B3	3347 B3	3434 B2	3638 B5	3736 B5	3915 A6	4449 B2	5122 B2	5911 A6	6291 B1	7053 C4	7420 B4	7920 A4
1100 A1	1730 C4	2021 C3	2108 B1	2308 A2	2412 C2	2474 A4	2628 A4	2647 B4	2666 C4	2681 B4	2746 C4	2933 A5	3022 B3	3056 A3	3121 B2	3313 B3	3348 B2	3436 C2	3640 B4	3740 B5	3920 A4	4463 C2	5301 A4	5921 A4	6360 B3	7062 B3	7621 B4	7930 A5
1111 B1	1731 C3	2041 B4	2120 B2	2310 B2	2415 C2	2475 A4	2629 B5	2648 B5	2667 C4	2682 B4	2750 C5	2934 A5	3023 B4	3057 C4	3122 B2	3314 B3	3360 B3	3437 B2	3645 A4	3741 B5	3921 A4	4464 B2	5302 A3	5930 A5	6361 B3	7064 B3	7622 A4	
1201 C2	1732 C5	2042 B4	2121 B2	2312 A3	2417 B2	2476 A4	2630 A5	2649 B5	2668 B5	2683 B4	2752 C5	2998 A5	3029 B3	3059 C4	3121 B2	3318 A2	3361 B3	3620 B4	3646 A4	3752 C5	3922 A4	4465 C2	5303 A2	5931 A5	6362 B3	7066 B4	7674 B5	
1206 B1	1733 C4	2043 B4	2122 B2	2315 B3	2418 B2	2477 A4	2631 A5	2650 B5	2669 B5	2684 B4	2753 C5	2999 A6	3033 C3	3060 C4	3121 B2	3319 A2	3362 B3	3621 B4	3650 B4	3900 A5	3925 A5	4466 B2	5326 B2	6101 B2	6412 C2	7120 B2	7675 B5	
1208 C1	1750 C5	2044 B4	2123 B2	2317 A2	2419 C2	2478 A4	2632 B5	2652 B5	2670 B5	2689 B5	2756 C5	3002 C3	3034 B3	3062 B3	3121 B2	3325 A4	3411 C2	3622 A4	3651 B5	3901 A5	3930 A5	4467 B4	5426 B2	6102 B1	6415 C2	7261 C4	7676 C4	
1231 C2	1752 C5	2045 B4	2124 B2	2319 A2	2424 B3	2479 A3	2633 B4	2653 B5	2671 B5	2690 A5	2757 C5	3006 B3	3042 C3	3063 B3	3121 C1	3326 B2	3412 C2	3623 B4	3652 B5	3903 A5	3931 A5	4468 A4	5427 B2	6103 B1	6650 B5	7301 A3	7678 B5	
1232 C4	1902 A6	2046 B3	2125 B2	2321 A3	2426 B2	2480 A3	2634 A4	2654 B5	2672 C4	2691 B4	2900 A5	3007 C3	3043 C3	3064 B3	3121 C1	3329 A2	3413 B2	3624 B4	3653 C4	3904 A5	3932 A5	4469 A4	5451 B1	6120 B2	6731 C4	7303 B3	7679 B5	
1234 C3	1903 A5	2049 B4	2126 B2	2325 A3	2429 B3	2481 A3	2635 B5	2655 B5	2673 C4	2732 B5	2903 A5	3008 B3	3044 C4	3065 B3	3121 C1	3333 B3	3414 B2	3625 A4	3654 C4	3905 A5	3933 A5	4468 A4	5470 A4	6211 B1	6732 C4	7330 B3	7680 C4	
1260 C1	1904 A5	2052 C4	2211 B1	2326 B2	2430 B2	2620 B4	2636 A4	2656 B5	2674 B5	2733 B5	2910 A5	3010 B3	3045 B3	3070 B4	3121 C1	3334 B3	3415 C2	3626 B4	3655 B5	3906 A4	4008 B3	4649 A4	5620 B4	6218 C1	6910 A6	7360 B3	7731 B5	
1267 C3	2010 B3	2053 B4	2217 C1	2330 B3	2433 B2	2621 B4	2637 A5	2657 B5	2675 B5	2734 A5	2912 A6	3014 B3	3046 B3	3071 B4	3121 C1	3335 B3	3416 C2	3633 B4	3656 B5	3910 A6	4057 B4	4691 B4	5621 A4	6284 C1	6920 A4	7401 C2	7900 A5	
1269 C2	2016 C3	2055 C4	2218 C1	2331 B3	2434 B2	2622 A4	2638 B5	2658 B5	2676 A4	2735 B5	2913 A6	3015 B3	3049 B3	3084 B4	3121 C1	3336 A3	3417 B2	3634 A4	3691 B4	3911 A6	4302 A4	4738 C5	5650 B5	6285 C1	6925 A4	7403 A3	7901 A5	
1330 A3	2017 C3	2057 B4	2224 C1	2332 B3	2435 C2	2623 A4	2639 B4	2661 B5	2677 B5	2740 B5	2914 A6	3016 C3	3051 C3	3086 B3	3121 C1	3337 A3	3418 C2	3635 B5	3732 B5	3912 A5	4303 A4	5042 B4	5733 A5	6288 C1	6930 A5	7405 B2	7903 A5	
1620 B4	2018 C4	2103 B2	2250 C3	2351 B3	2448 B2	2624 A4	2640 B4	2662 B5	2678 B5	2741 B5	2920 A4	3018 B4	3052 A3	3099 C3	3121 C1	3338 B3	3432 C3	3636 A4	3733 B5	3913 A6	4324 B2	5900 A5	6289 C1	7008 B3	7412 C2	7904 A5		



Layout TV Board (13"/15") (Overview Bottom Side)



3139 123 5712.2

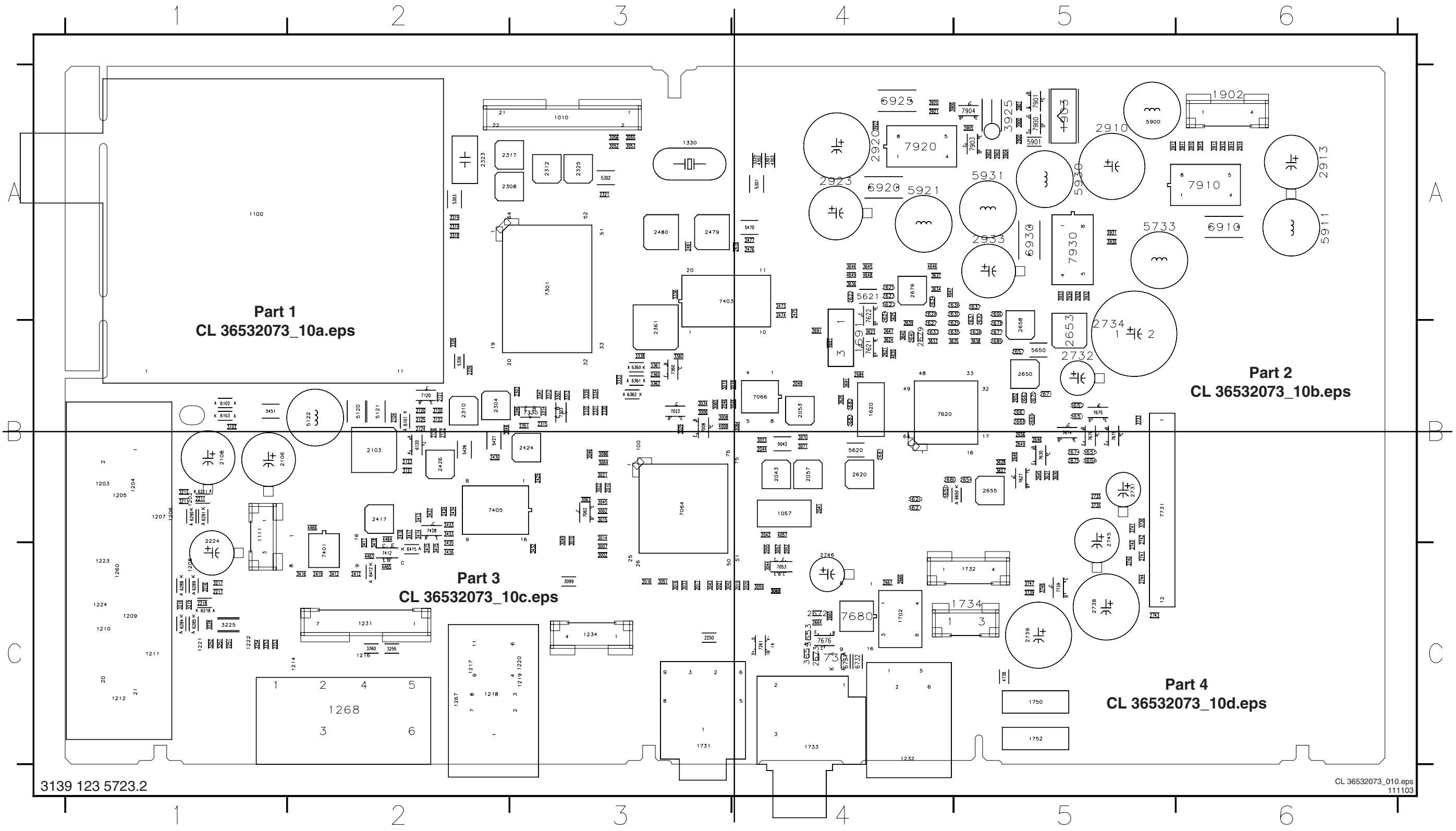
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Layout TV Board (20") (Overview Top Side)

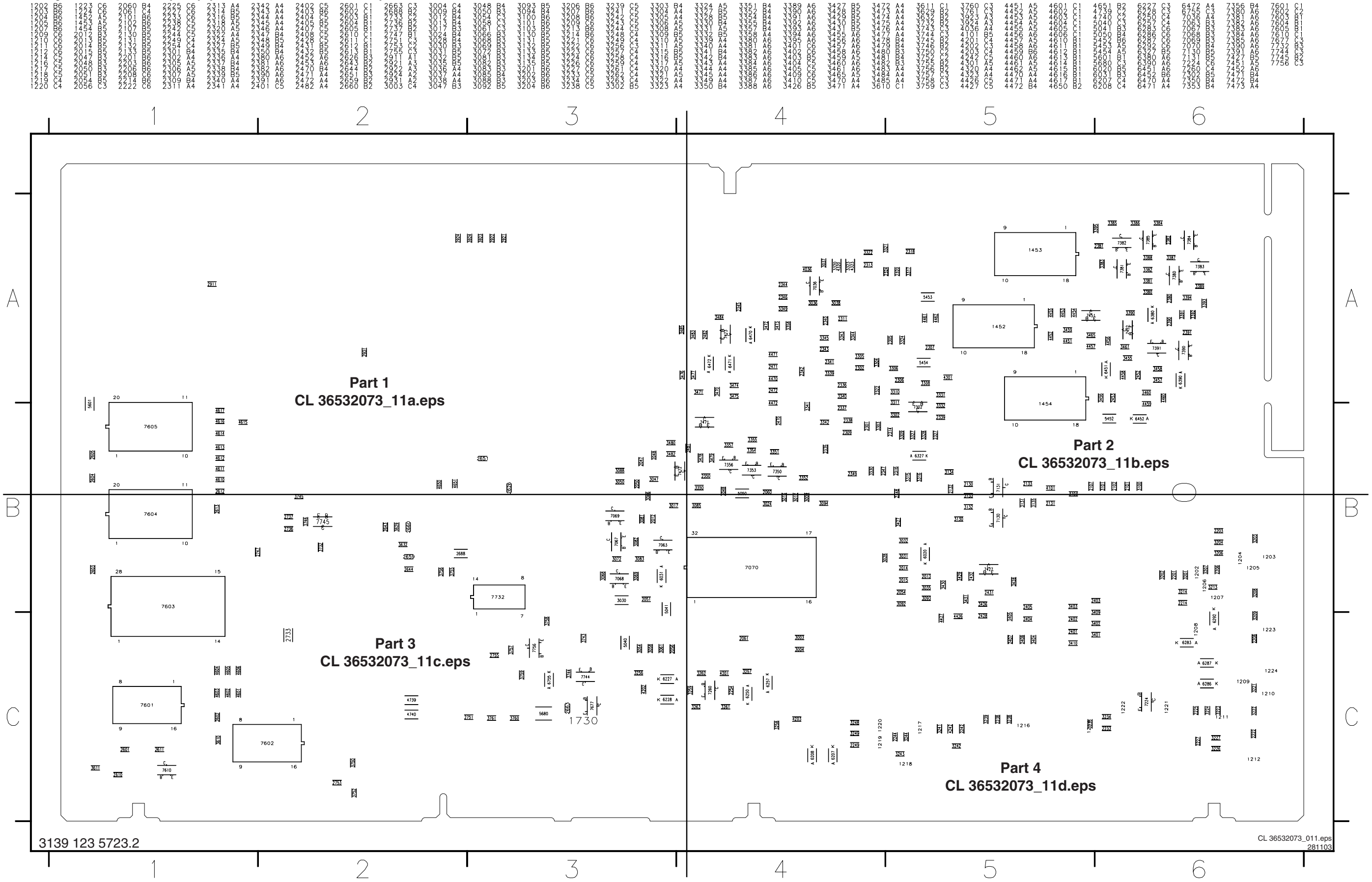
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1057 B4	1732 C5	2044 B4	2126 B2	2331 B3	2449 B2	2629 B5	2652 B5	2673 C4	2738 C5	2932 A5	3029 B3	3063 B3	3225 C1	3337 A3	3434 B2	3646 A4	3901 A5	3933 A5	4738 C5	5901 A5	6361 B3	7261 C4	7680 C4
1100 A1	1733 C4	2045 B4	2111 B1	2332 B3	2473 A4	2630 A5	2653 B5	2674 B5	2739 C5	2933 A5	3033 C3	3064 B3	3228 C1	3338 B3	3436 C2	3650 A4	3903 A5	4008 B3	5042 B4	5911 A6	6362 B3	7301 A3	7731 B5
1111 B1	1734 C5	2046 B3	2217 C1	2351 B3	2474 A4	2631 A5	2654 B5	2675 B5	2740 C5	2934 A5	3034 B3	3065 B3	3255 C2	3346 B3	3437 B2	3651 B5	3904 A5	4057 B4	5120 B2	5921 A4	6412 C2	7303 B3	7739 C5
1201 C2	1750 C5	2049 B4	2218 C1	2360 B3	2475 A4	2632 B5	2655 B5	2676 A4	2741 C5	2938 A5	3042 C3	3070 B4	3260 C2	3347 B3	3437 B2	3652 B5	3905 A5	4057 B4	5121 B2	5930 A5	6415 C2	7330 B3	7900 A5
1206 B1	1752 C5	2052 C4	2224 C1	2361 B3	2476 A4	2633 B4	2656 B5	2677 B5	2742 B5	2939 A6	3043 C3	3071 B4	3301 A4	3348 B2	3437 B2	3653 C4	3906 A4	4303 A4	5122 B2	5931 A5	6650 B5	7360 B3	7901 A5
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1234 C3	2010 B3	2103 B2	2308 A2	2418 B2	2480 A3	2637 A5	2662 B5	2681 B4	2746 C4	3008 B3	3049 B3	3102 B1	3314 B3	3411 C2	3439 B2	3657 A4	3913 A6	4463 C2	5326 B2	6120 B2	6920 A4	7412 C2	7920 A4
1260 C1	2016 C3	2104 B2	2310 B2	2419 C2	2481 A3	2638 B5	2664 C4	2682 B4	2799 B5	3010 B3	3051 C3	3120 B2	3318 A2	3412 C2	3439 B2	3658 B4	3914 A6	4464 B2	5426 B2	6211 B1	6925 A4	7428 B2	7930 A5
1267 C3	2017 C3	2106 B1	2312 A3	2424 B3	2620 B4	2639 B4	2665 C4	2683 A4	2900 A5	3011 B3	3052 A3	3121 B2	3319 A2	3413 B2	3439 B2	3659 B5	3915 A6	4465 C2	5427 B2	6218 C1	6930 A5	7620 B4	7930 A5
1269 C2	2018 C4	2108 B1	2315 B3	2426 B2	2621 B4	2640 B4	2666 C4	2684 B4	2903 A5	3012 B3	3053 A3	3122 B2	3325 A4	3414 B2	3439 B2	3660 B5	3920 A4	4466 B2	5451 B1	6284 C1	7008 B3	7621 B4	7930 A5
1330 A3	2019 C4	2120 B2	2317 A2	2429 B3	2622 A4	2645 B5	2667 C4	2689 B5	2910 A5	3016 C3	3055 A3	3211 B1	3326 B2	3415 C2	3439 B2	3661 B5	3921 A4	4466 B4	5470 A4	6285 C1	7022 B3	7622 A4	7930 A5
1620 B4	2020 C4	2121 B2	2319 A2	2430 B2	2623 A4	2646 B5	2668 B5	2690 A5	2912 A6	3018 B4	3056 A3	3212 B1	3329 A2	3416 C2	3439 B2	3662 A4	3922 A4	4466 A4	5620 B4	6288 C1	7053 C4	7674 B5	7930 A5
1691 B4	2021 C3	2122 B2	2321 A3	2433 B2	2624 A4	2647 B4	2669 B5	2691 B4	2913 A6	3019 B3	3057 C4	3216 C1	3333 B3	3417 B2	3439 B2	3663 A4	3925 A5	4647 A4	5621 A4	6289 C1	7062 B3	7675 B5	7930 A5
1702 C4	2041 B4	2123 B2	2325 A3	2434 B2	2625 A4	2648 B5	2670 B5	2732 B5	2914 A6	3021 B3	3059 C4	3217 C1	3334 B3	3418 C2	3439 B2	3664 B4	3930 A5	4648 A4	5650 B5	6290 B1	7064 B3	7676 C4	7930 A5
1730 C4	2042 B4	2124 B2	2326 B2	2435 C2	2627 B4	2649 B5	2671 B5	2734 B5	2920 A4	3022 B3	3060 C4	3218 C1	3335 B3	3432 C3	3439 B2	3664 B4	3931 A5	4649 A4	5733 A5	6291 B1	7066 B4	7678 B5	7930 A5



3139 123 5723.2

CL 36532073_010.eps
111103

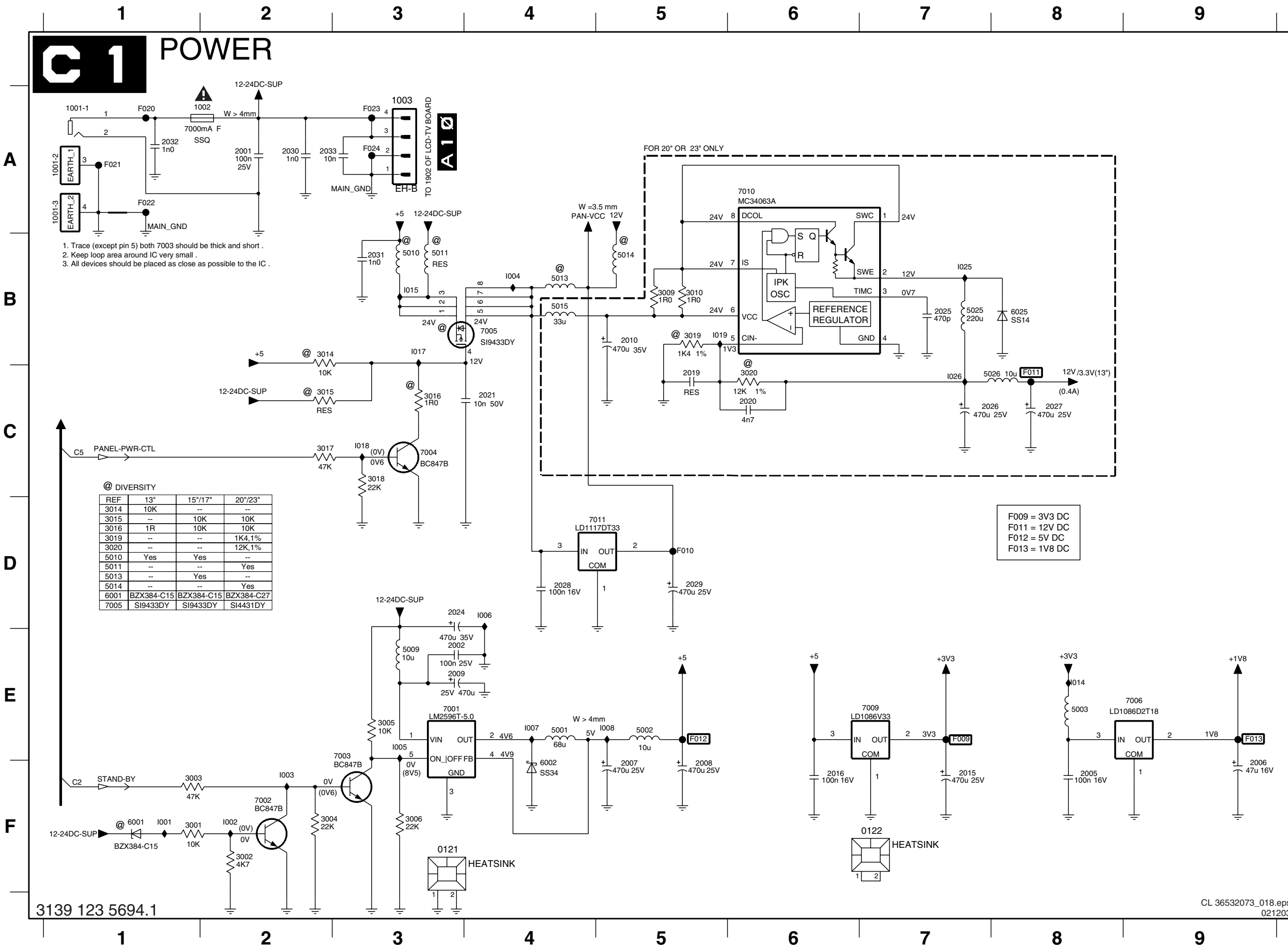
Layout TV Board (20") (Overview Bottom Side)



3139 123 5723.2

CL 36532073_011.eps 281103

Scaler Board: Power



C1 POWER

1. Trace (except pin 5) both 7003 should be thick and short.
2. Keep loop area around IC very small.
3. All devices should be placed as close as possible to the IC.

@ DIVERSITY

REF	13"	15"/17"	20"/23"
3014	10K	--	--
3015	--	10K	10K
3016	1R	10K	10K
3019	--	--	1K4, 1%
3020	--	--	12K, 1%
5010	Yes	Yes	--
5011	--	--	Yes
5013	--	Yes	--
5014	Yes	--	Yes
6001	BZX384-C15	BZX384-C15	BZX384-C27
7005	SI9433DY	SI9433DY	SI4431DY

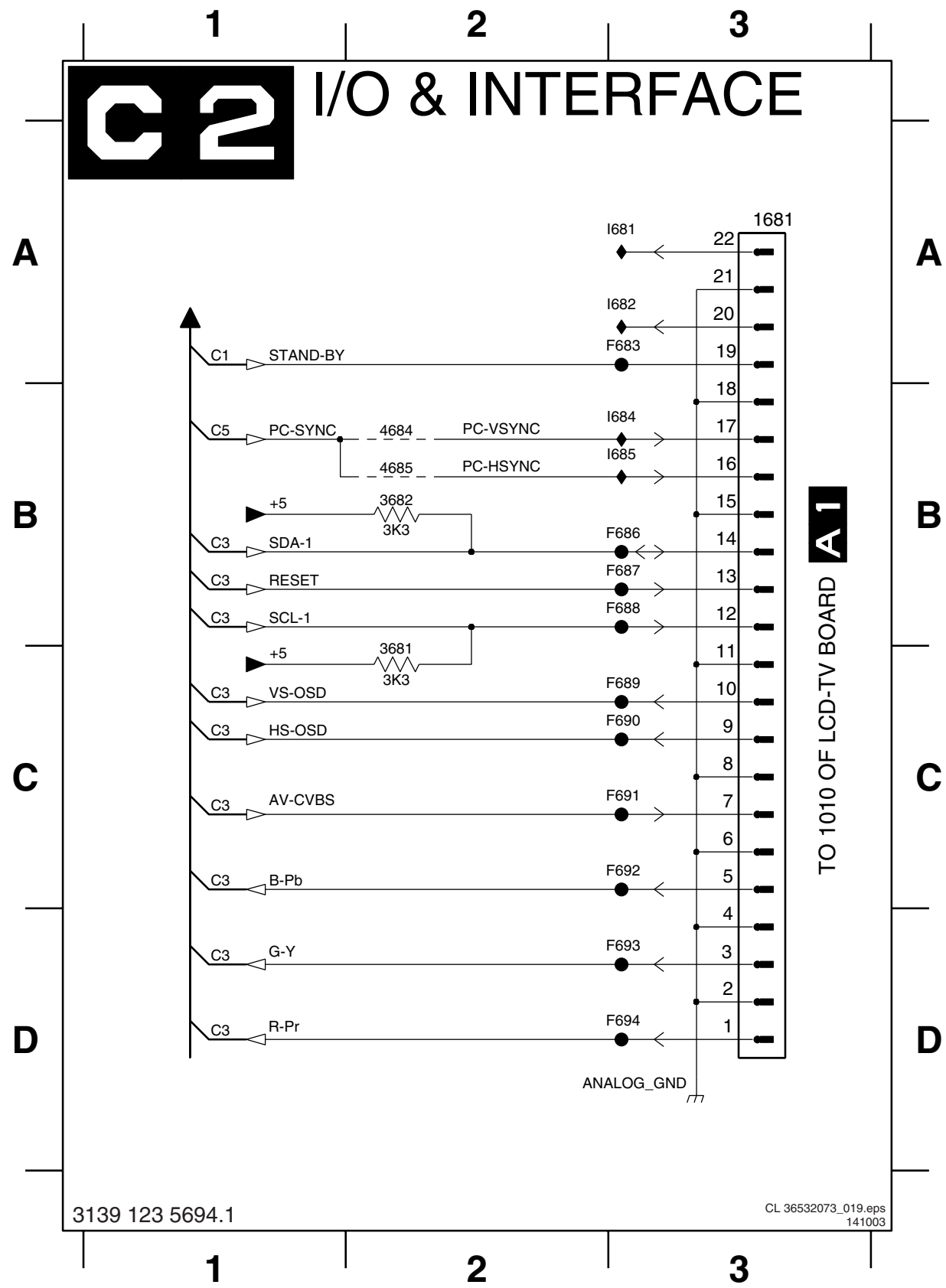
F009 = 3V3 DC
 F011 = 12V DC
 F012 = 5V DC
 F013 = 1V8 DC

3139 123 5694.1

CL 36532073_018.eps
 021203

- 0121 F3
- 0122 F7
- 1001-1 A1
- 1001-2 A1
- 1001-3 A1
- 1002 A2
- 1002 A2
- 1003 A3
- 2001 A2
- 2002 E3
- 2004 D5
- 2005 F8
- 2006 E9
- 2007 E5
- 2008 E5
- 2009 E3
- 2010 B5
- 2015 F7
- 2016 F6
- 2019 C5
- 2020 C6
- 2021 C4
- 2024 D3
- 2025 B7
- 2026 C7
- 2027 C8
- 2028 D4
- 2030 A2
- 2031 B3
- 2032 A1
- 2033 A2
- 3001 F1
- 3002 F2
- 3003 F1
- 3004 F2
- 3005 E3
- 3006 F3
- 3009 B5
- 3010 B5
- 3014 B2
- 3015 C2
- 3016 C3
- 3017 C2
- 3018 C3
- 3019 B5
- 3020 C6
- 5001 E4
- 5002 E5
- 5003 E8
- 5009 E3
- 5010 B3
- 5011 B3
- 5013 B4
- 5014 B5
- 5015 B4
- 5025 B7
- 5026 C8
- 6001 F1
- 6002 E4
- 6025 B8
- 7001 E3
- 7002 F2
- 7003 E3
- 7004 C3
- 7005 B4
- 7006 E9
- 7009 E7
- 7010 A6
- 7011 D5
- F009 E7
- F010 D5
- F011 C8
- F012 E5
- F013 E9
- F020 A1
- F021 A1
- F022 A1
- F023 A3
- I001 F1
- I002 F2
- I003 F2
- I004 B4
- I005 E3
- I006 D4
- I007 E4
- I008 E5
- I014 E8
- I015 B3
- I017 B3
- I018 C3
- I019 B5
- I025 B7
- I026 C7

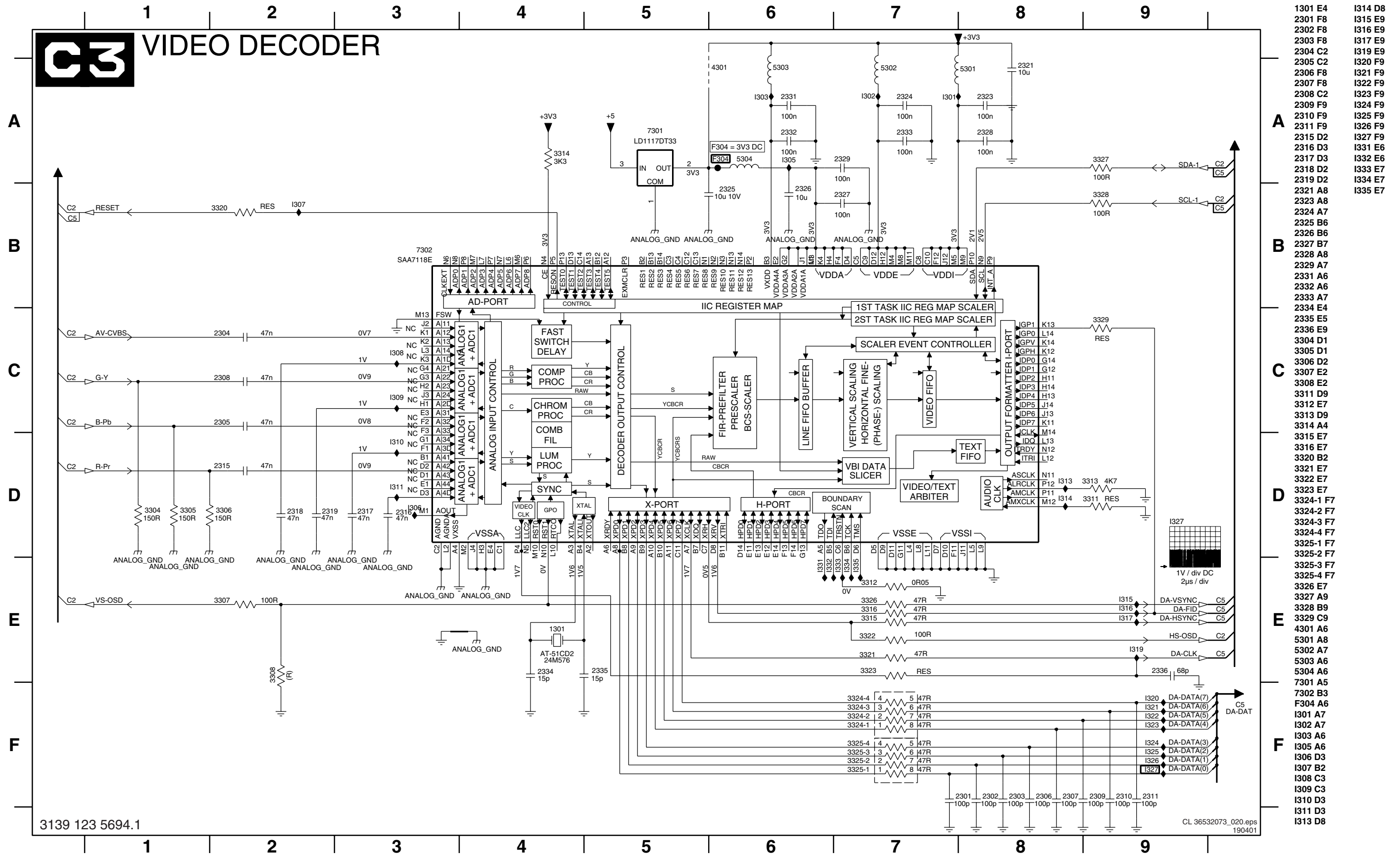
Scaler Board: I/O & Interface



- 1681 A3
- 3681 C2
- 3682 B2
- 4684 B2
- 4685 B2
- F683 A3
- F686 B3
- F687 B3
- F688 B3
- F689 C3
- F690 C3
- F691 C3
- F692 C3
- F693 D3
- F694 D3
- I681 A3
- I682 A3
- I684 B3
- I685 B3

Personal Notes:

Scaler Board: Video Decoder

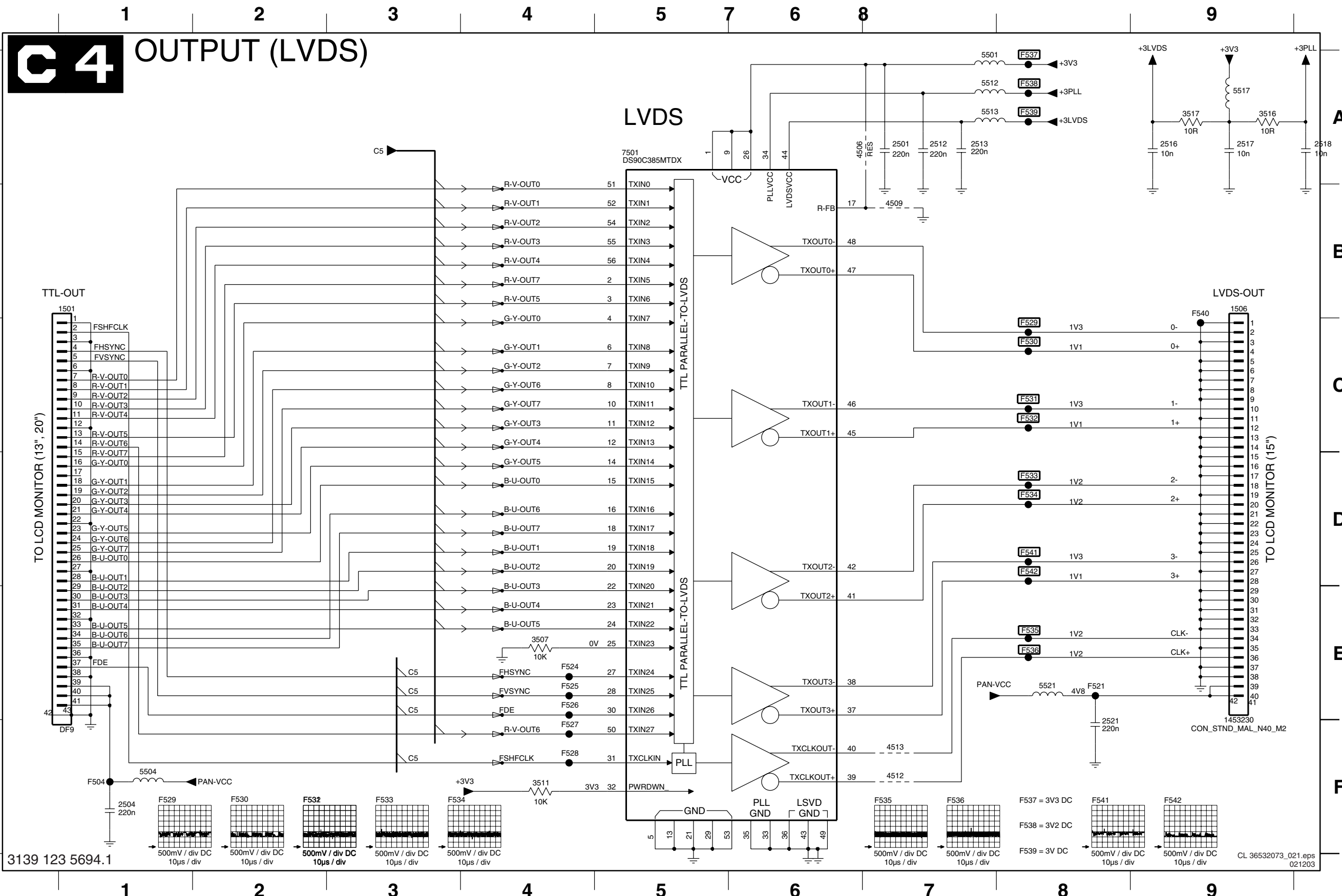


3139 123 5694.1

CL 36532073_020.eps 190401

- 1301 E4
- 2301 F8
- 2302 F8
- 2303 F8
- 2304 C2
- 2305 C2
- 2306 F8
- 2307 F8
- 2308 C2
- 2309 F9
- 2310 F9
- 2311 F9
- 2315 D2
- 2316 D3
- 2317 D3
- 2318 D2
- 2319 D2
- 2321 A8
- 2323 A8
- 2324 A7
- 2325 B6
- 2326 B6
- 2327 B7
- 2328 A8
- 2329 A7
- 2331 A6
- 2332 A6
- 2333 A7
- 2334 E4
- 2335 E5
- 2336 E9
- 3304 D1
- 3305 D1
- 3306 D2
- 3307 E2
- 3308 E2
- 3311 D9
- 3312 E7
- 3313 D9
- 3314 A4
- 3315 E7
- 3316 E7
- 3320 B2
- 3321 E7
- 3322 E7
- 3323 E7
- 3324-1 F7
- 3324-2 F7
- 3324-3 F7
- 3324-4 F7
- 3325-1 F7
- 3325-2 F7
- 3325-3 F7
- 3325-4 F7
- 3326 E7
- 3327 A9
- 3328 B9
- 3329 C9
- 4301 A6
- 5301 A8
- 5302 A7
- 5303 A6
- 5304 A6
- 7301 A5
- 7302 B3
- F304 A6
- I301 A7
- I302 A7
- I303 A6
- I305 A6
- I306 D3
- I307 B2
- I309 C3
- I310 D3
- I311 D3
- I313 D8
- I314 D8
- I315 E9
- I316 E9
- I317 E9
- I319 E9
- I320 F9
- I321 F9
- I322 F9
- I323 F9
- I324 F9
- I325 F9
- I326 F9
- I327 F9
- I331 E6
- I332 E6
- I333 E7
- I334 E7
- I335 E7

Scaler Board: Output (LVDS)

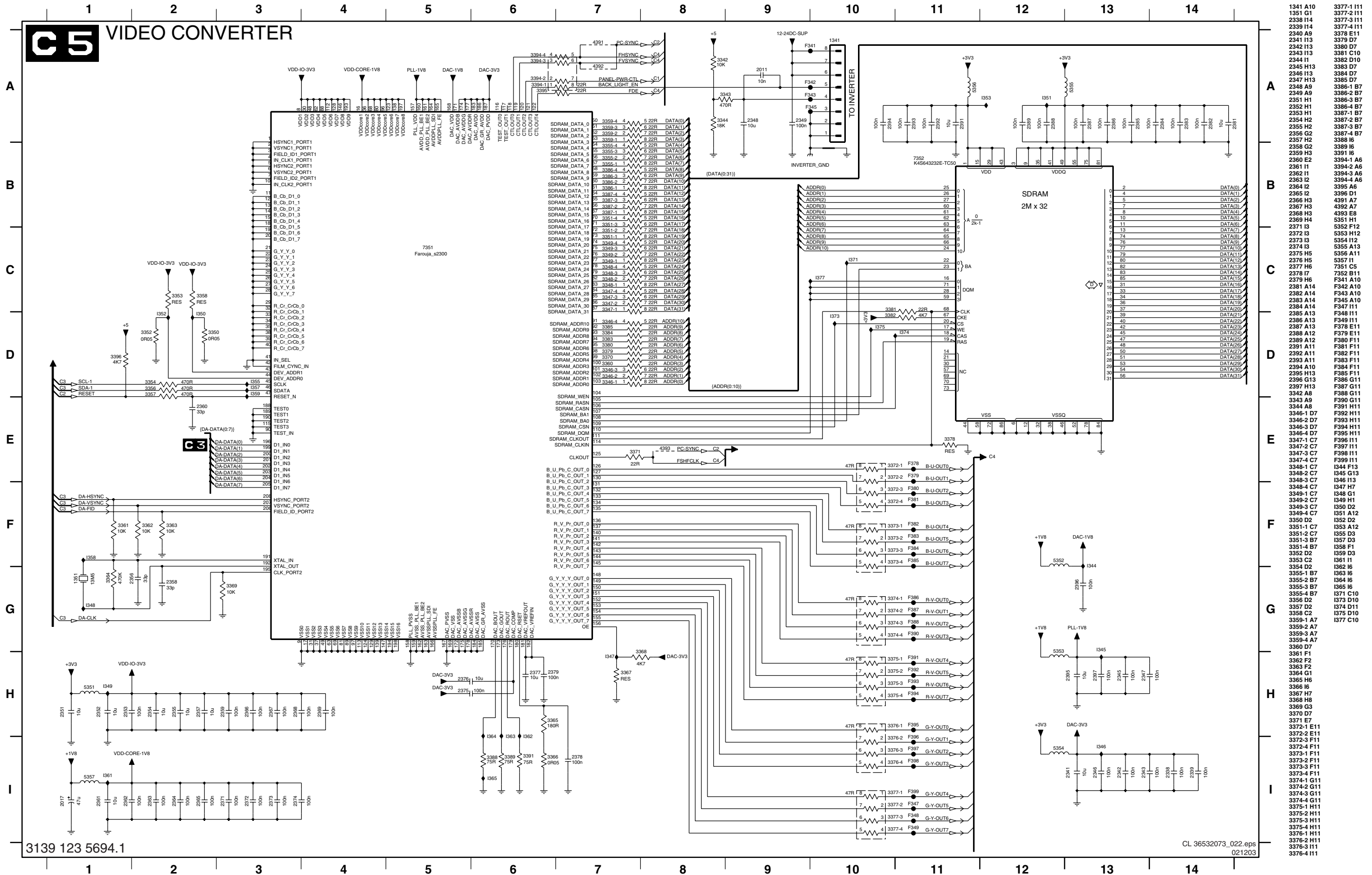


- 1501 B1
- 1506 B9
- 2501 A7
- 2504 F1
- 2512 A7
- 2513 A7
- 2516 A9
- 2517 A9
- 2521 E8
- 3507 E4
- 3511 F4
- 3516 A9
- 3517 A9
- 4506 A6
- 4509 B7
- 4512 F7
- 4513 F7
- 5501 A7
- 5504 F1
- 5512 A7
- 5513 A7
- 5517 A9
- 5521 E8
- 7501 A5
- F504 F1
- F521 E8
- F524 E4
- F526 E4
- F527 F4
- F528 F4
- F529 C8
- F530 C8
- F531 C8
- F532 C8
- F533 D8
- F534 D8
- F535 E8
- F536 E8
- F537 A8
- F538 A8
- F539 A8
- F540 B9
- F541 D8
- F542 D8

3139 123 5694.1

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Scaler Board: Video Converter



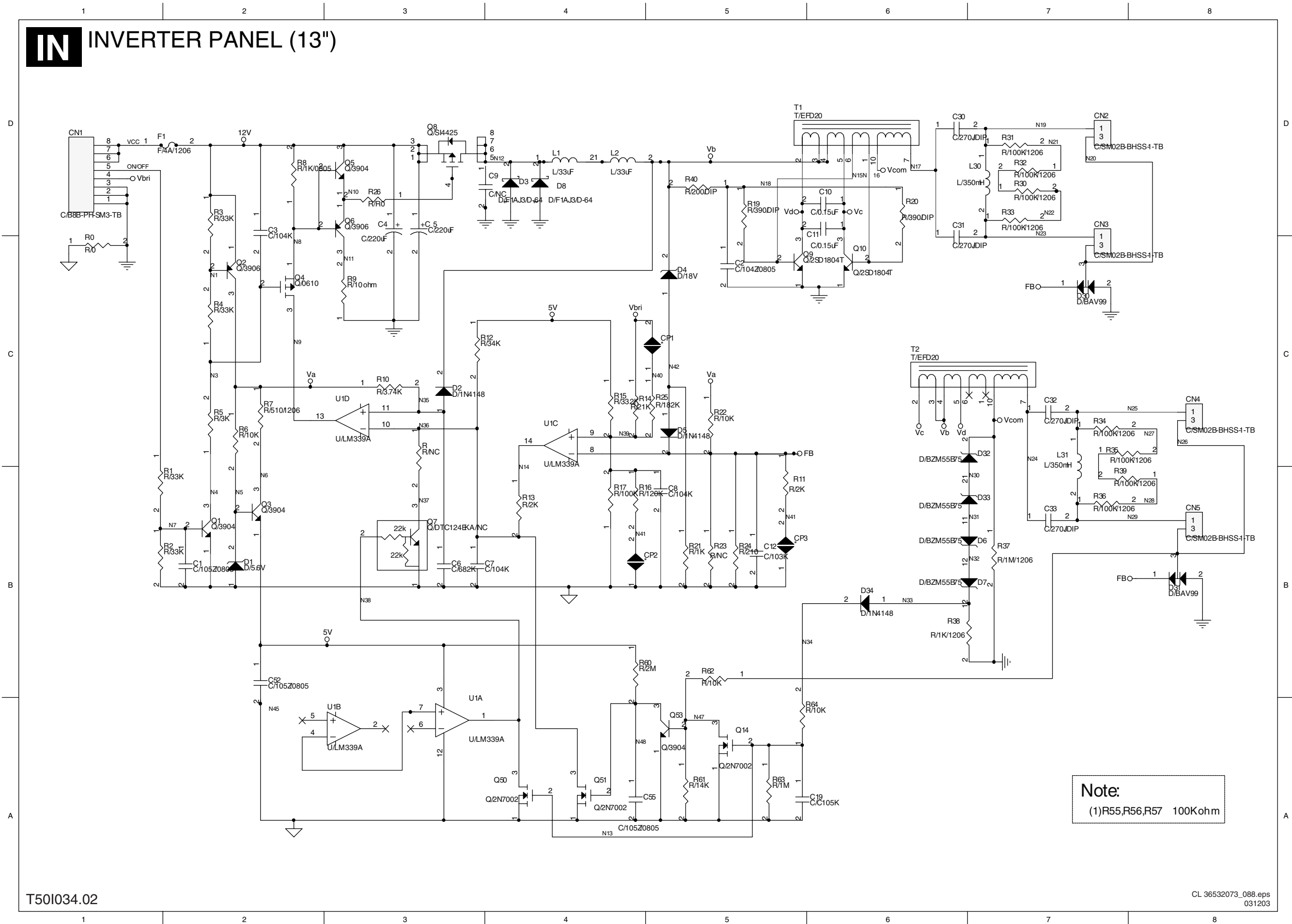
- 1341 A10
- 1351 G1
- 2338 I14
- 2339 I14
- 2340 A9
- 2341 I13
- 2342 H3
- 2343 I13
- 2344 I1
- 2345 H13
- 2346 H3
- 2347 H13
- 2348 A9
- 2349 A9
- 2350 H1
- 2351 H1
- 2352 H1
- 2353 H1
- 2354 H2
- 2355 H2
- 2356 G2
- 2357 H2
- 2358 G2
- 2359 H2
- 2360 E2
- 2361 H1
- 2362 I1
- 2363 I2
- 2364 I2
- 2365 I2
- 2366 H3
- 2367 H3
- 2368 H3
- 2369 H4
- 2371 I3
- 2372 I3
- 2373 I3
- 2374 I3
- 2375 H5
- 2376 H5
- 2377 H6
- 2378 I1
- 2379 H6
- F342 A10
- F343 A10
- F344 A10
- F345 A10
- F346 H11
- F347 H11
- F348 H11
- F349 H11
- F350 H11
- F351 H11
- F352 H11
- F353 H11
- F354 H11
- F355 H11
- F356 H11
- F357 H11
- F358 H11
- F359 H11
- F360 H11
- F361 H11
- F362 H11
- F363 H11
- F364 H11
- F365 H11
- F366 H11
- F367 H11
- F368 H11
- F369 H11
- F370 H11
- F371 E11
- F372 E11
- F373 F11
- F374 F11
- F375 F11
- F376 F11
- F377 D11
- F378 D11
- F379 D11
- F380 D11
- F381 D11
- F382 D11
- F383 D11
- F384 D11
- F385 D11
- F386 D11
- F387 D11
- F388 D11
- F389 D11
- F390 D11
- F391 H11
- F392 H11
- F393 H11
- F394 H11
- F395 H11
- F396 H11
- F397 H11
- F398 H11
- F399 H11
- I44 F13
- I45 G13
- I46 I13
- I47 H7
- I48 G1
- I49 H1
- I50 D2
- I51 A12
- I52 D2
- I53 A12
- I54 D3
- I55 D3
- I56 F1
- I57 D2
- I58 I11
- I59 D2
- I60 C10
- I61 D10
- I62 D11
- I63 D10
- I64 H11
- I65 H11
- I66 H11
- I67 H11
- I68 H11
- I69 H11
- I70 H11
- I71 H11
- I72 H11
- I73 H11
- I74 H11
- I75 H11
- I76 H11
- I77 H11

3139 123 5694.1

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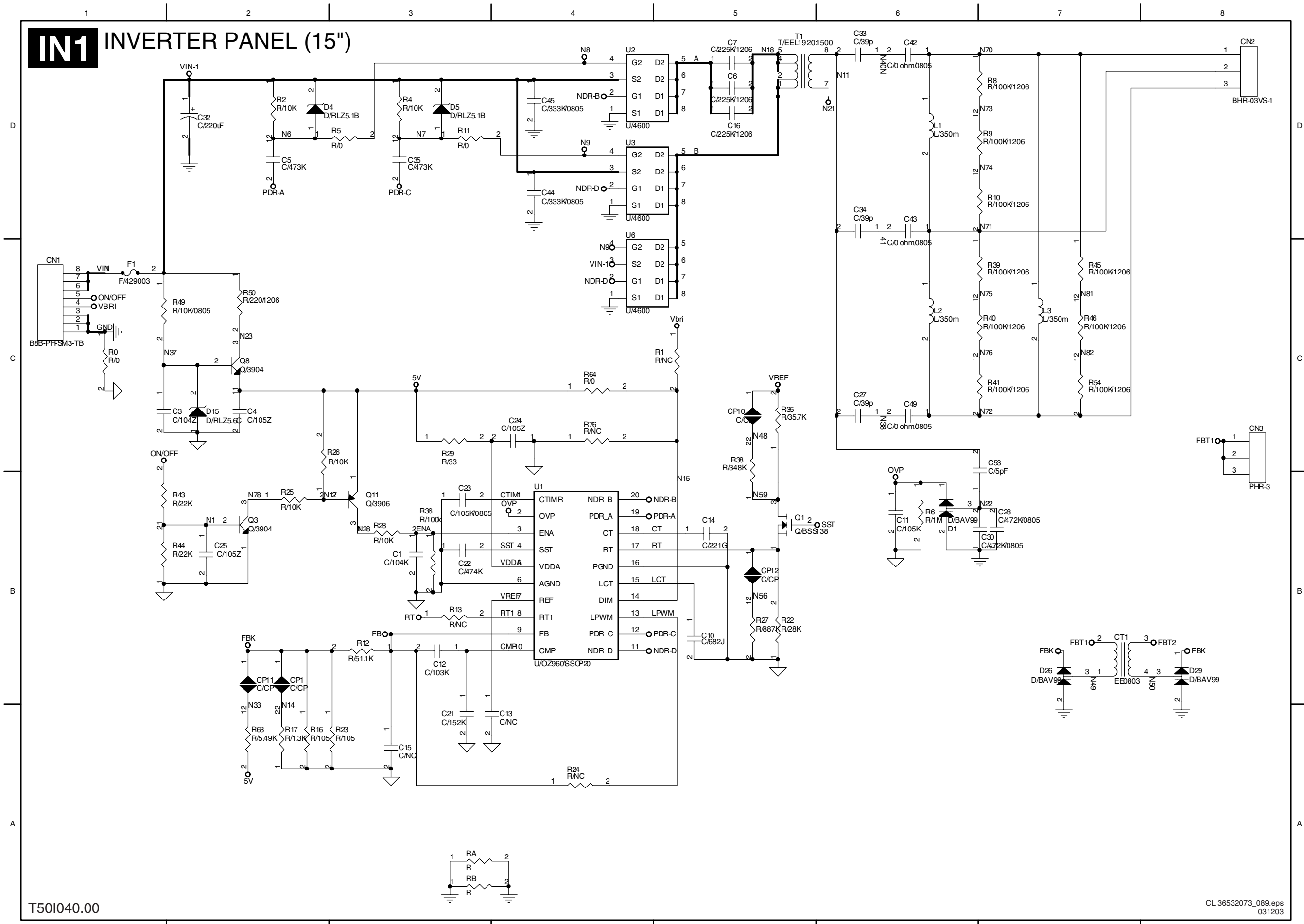
Inverter Panel (13")

IN INVERTER PANEL (13")



Note:
(1)R55,R56,R57 100Kohm

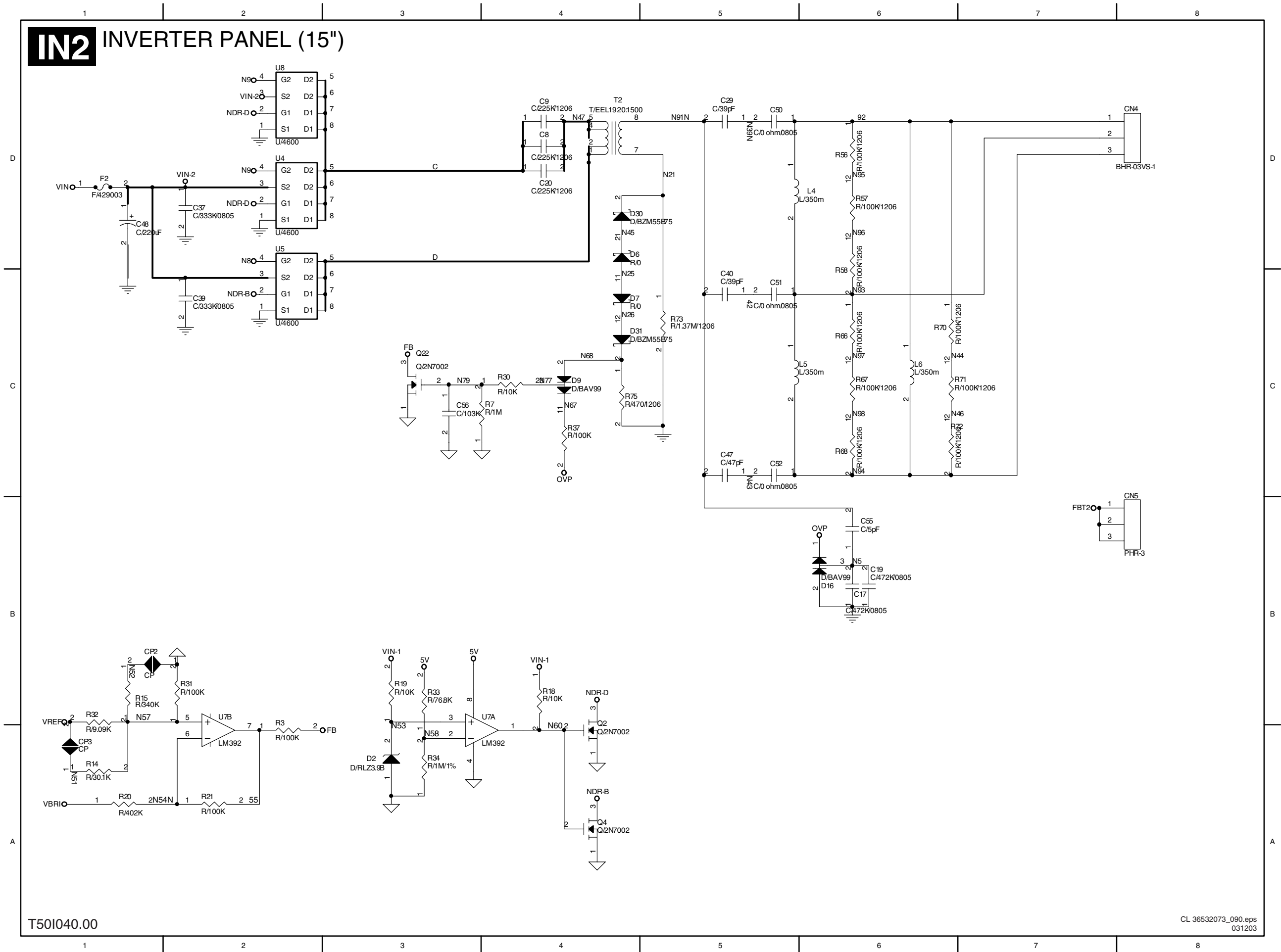
Inverter Panel (15")



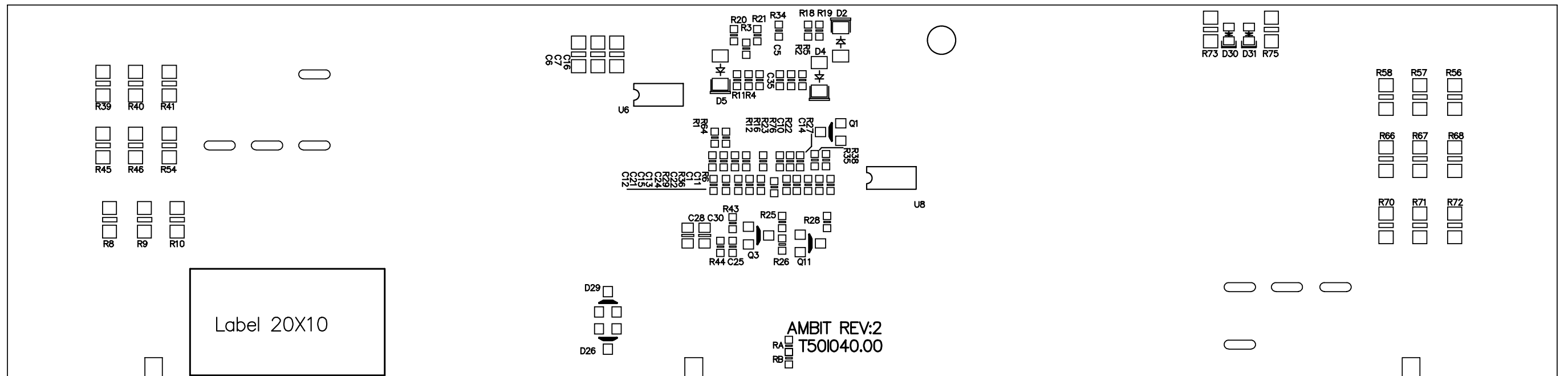
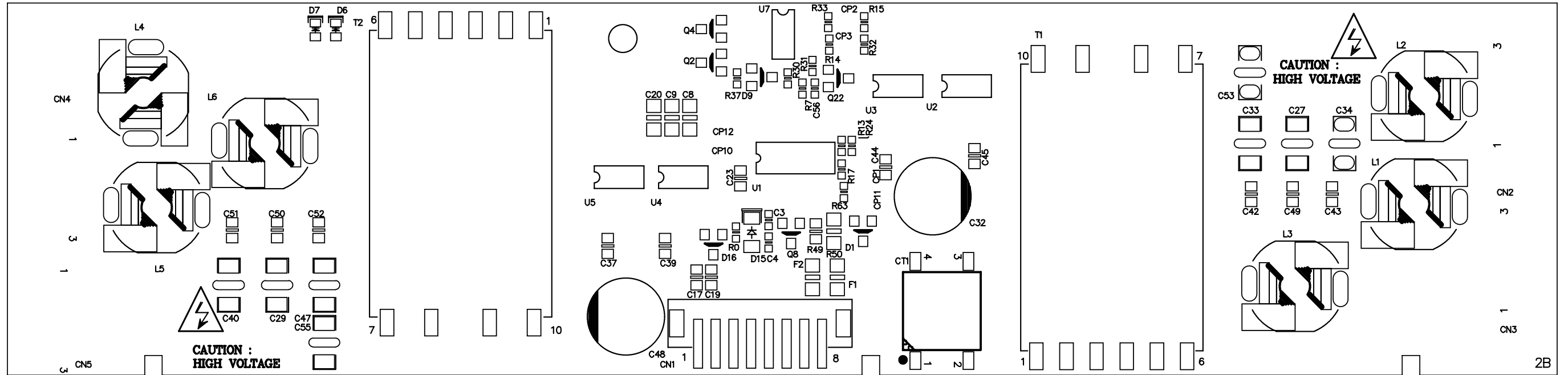
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031203

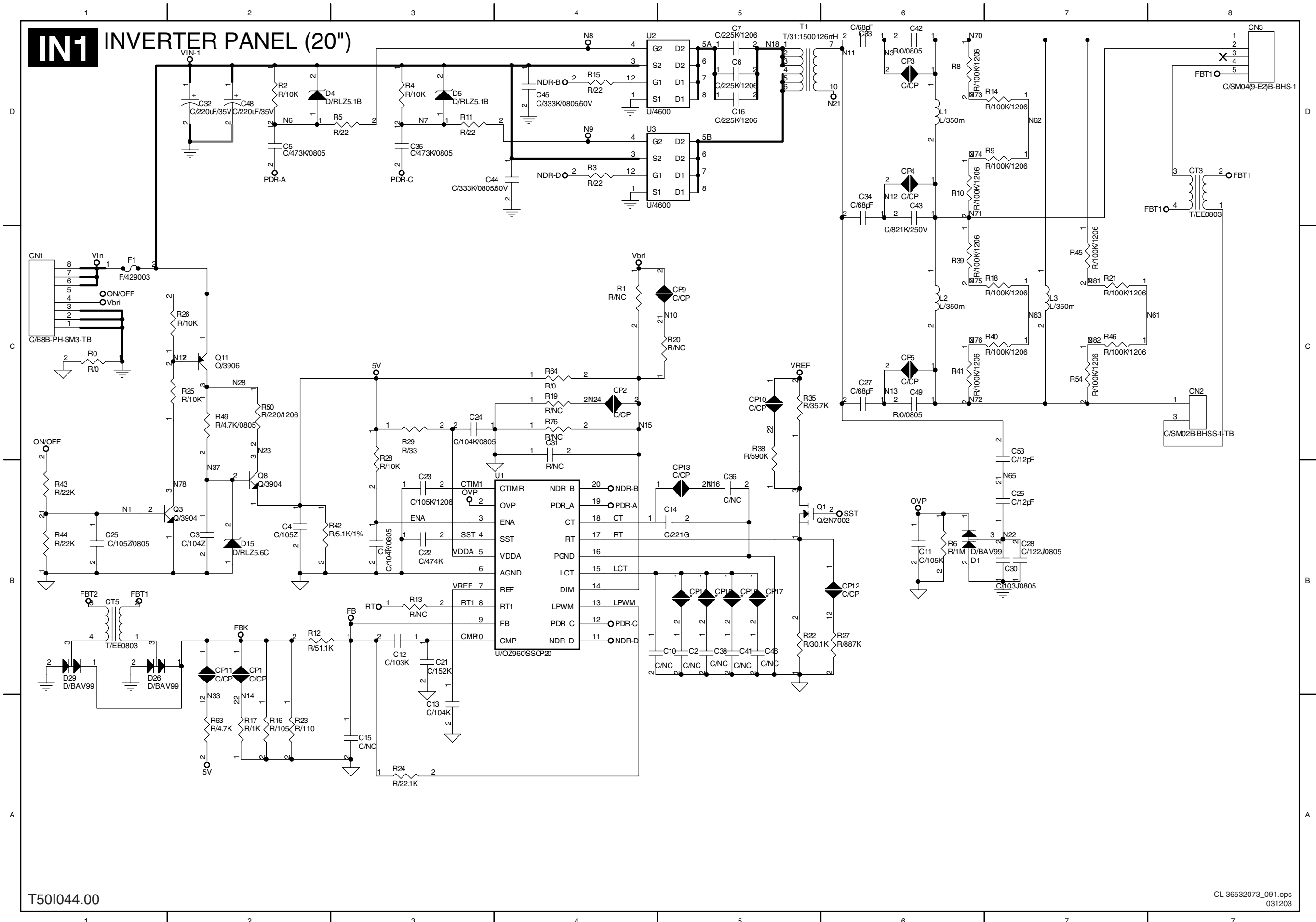
Inverter Panel (15")



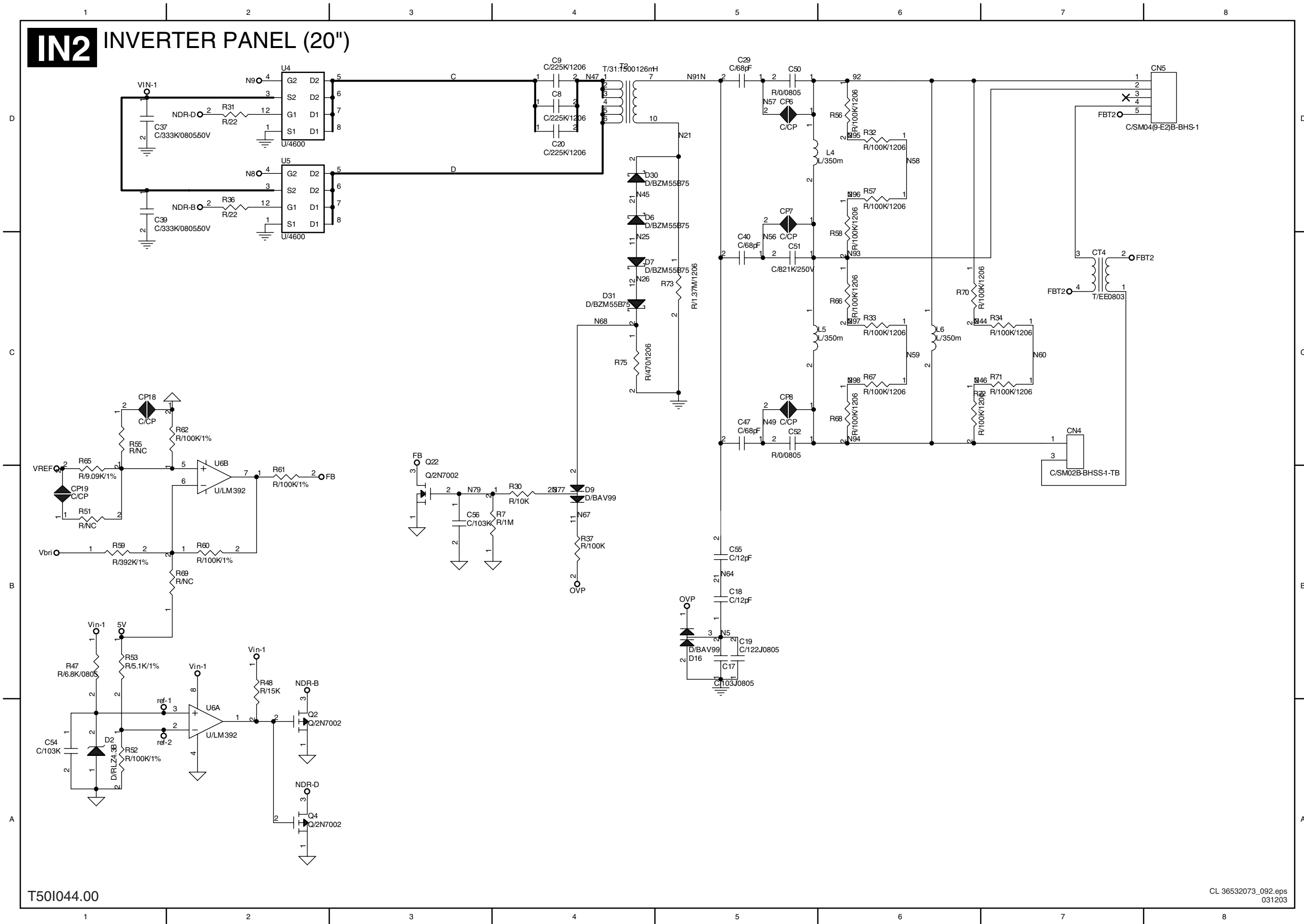
Layout Inverter Panel (15") INVERTER PANEL (15")



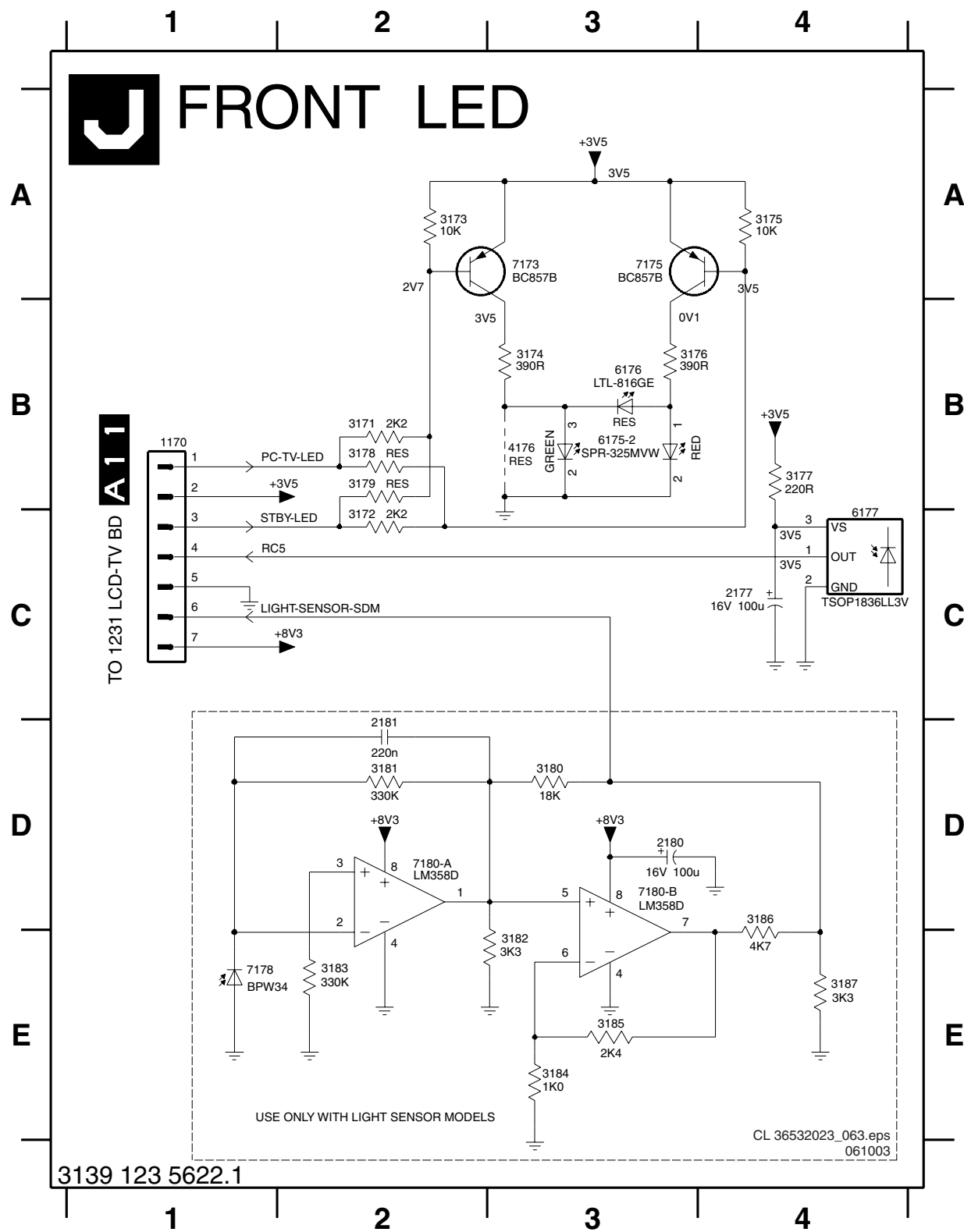
Inverter Panel (20")



Inverter Panel (20")

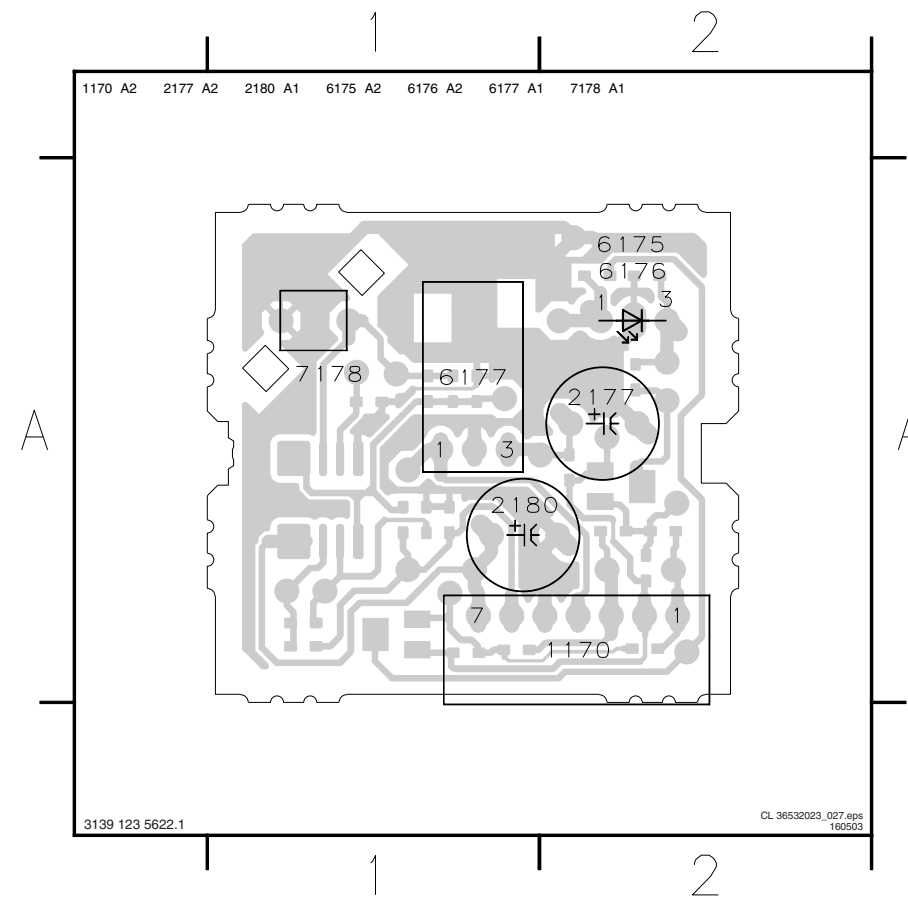


Front LED Panel

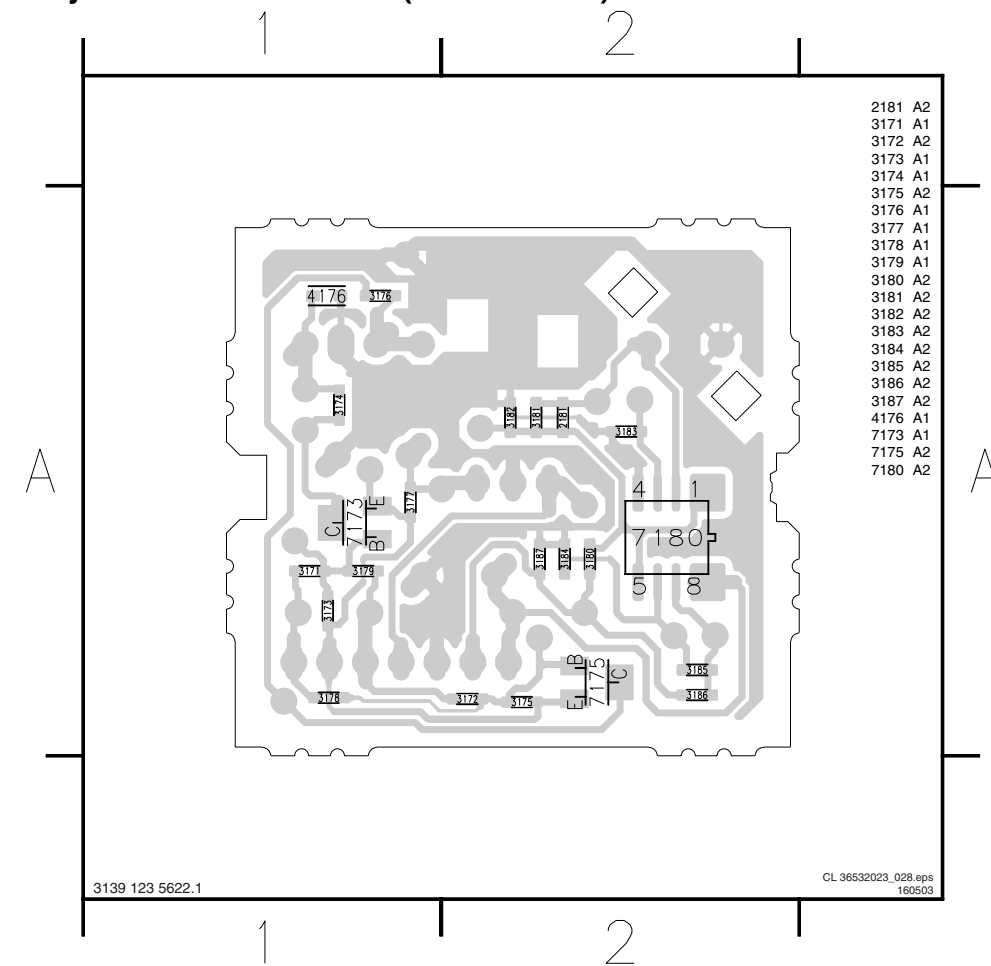


- 1170 B1
- 2177 C4
- 2180 D3
- 2181 D2
- 3171 B2
- 3172 C2
- 3173 A2
- 3174 B3
- 3175 A4
- 3176 B3
- 3177 B4
- 3178 B2
- 3179 B2
- 3180 D3
- 3181 D2
- 3182 E3
- 3183 E2
- 3184 E3
- 3185 E3
- 3186 D4
- 3187 E4
- 4176 B3
- 6175 B3
- 6176 B3
- 6177 C4
- 7173 A3
- 7175 A3
- 7178 E1
- 7180-A D2
- 7180-B D3

Layout Front LED Panel (Top Side)



Layout Front LED Panel (Bottom Side)



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