A10E

AA 01.01

Service
Service
Service

Service Information

In this service information you will find corrections on the A10E service manual (3122 785 10430) and information on new items.

Corrections

- See attached '*Errata Sheet'* for an overview of the errors and its corrections.
- *Chapter 8 Electrical Alignments*, as given in the A10E Service Manual, was not complete. Attached find a new corrected version.
- Pin numbering on LSP silkscreen is not correct. All pins (except 1, 2, 79 and 80) are shifted one position to the right. This means for instance that pin 20 is in fact pin 18, pin 19 is pin 17, pin 40 is pin 38, etc.

New

- During production, the following new panels are introduced:
  - A new LSP panel. The diagram, print layout and parts list are given in this document.
  - A new CRT panel. The diagram, print layout and parts list are given in this document.
- After the layout change of the LSP, the set can not be forced into Service Default Mode (SDM) anymore by shorting the jumper wires 9261 and 9262. This because position nr. 3286 was added (see attached diagram A4, location F9), but is not used. Therefor point 9261 is floating. A possible service solution is:
  - Place a resistor of 1k8 (4822 051 20182) on pos. 3286. Now, the SDM can be reached via the 'normal' method.

- A special '*service extension board'* for the A10 Small Signal Board (SSB) has been introduced under nr. 9965 000 07933.
  Note: This version is not the same as used for the EMG sets !

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PHILIPS

ERRATA SHEET

Subject (page)	Location	Correction	
		Present situation	**Corrected situation**
Chapter 1 (2)	1.1.1 Reception Stdby consumpt. 1.2.2 EXT2	 <= 3 W 10-	Add **NTSC** **<** 3 W 10- **Easy link**
Overviews (26)	SSB comp. side IC overview	Testpoint V2 at pin 26 of IC7301 IC overview	Testpoint V2 at pin **54** of IC7301 **I²C** overview
Diagram A1 (28)	B1	Degassing coil	**Degaussing** coil
Diagram A4 (31)	A3 E1 G2 G5	To 0226 of SSB-connector [C6] A6-31 A6-34 'AUDIO-C' A6-51 'AUDIO-SURR'	To 0226 of SSB-connector [**C8**] A6-**30** A6-34 '**AUDIO-SURR**' A6-51 '**AUDIO-C**'
Diagram A6 (33)	G2 H2	A4-34 'AUDIO-C' A4-51 'AUDIO-SURR'	A4-34 '**AUDIO-SURR**' A4-51 '**AUDIO-C**'
Diagram C2 (41)	C1	C2-78	**C1**-78
Diagram C4 (44)	D7 F10 H1/H2	Internal circuit 7064 is wrong To memory [C4] To SSB connector [C7]	See A10E-DPL manual page 29 To memory [**C5**] To SSB connector [**C8**]
Diagram C6 (45)	D11 D11	'AUDIO-SURR' C8-56 'AUDIO-C' C8-57	'**AUDIO-C**' C8-56 '**AUDIO-SURR**' C8-57
Diagram C8 (47)	F2	C6-56 'AUDIO-SURR'	C6-56 '**AUDIO-C**'

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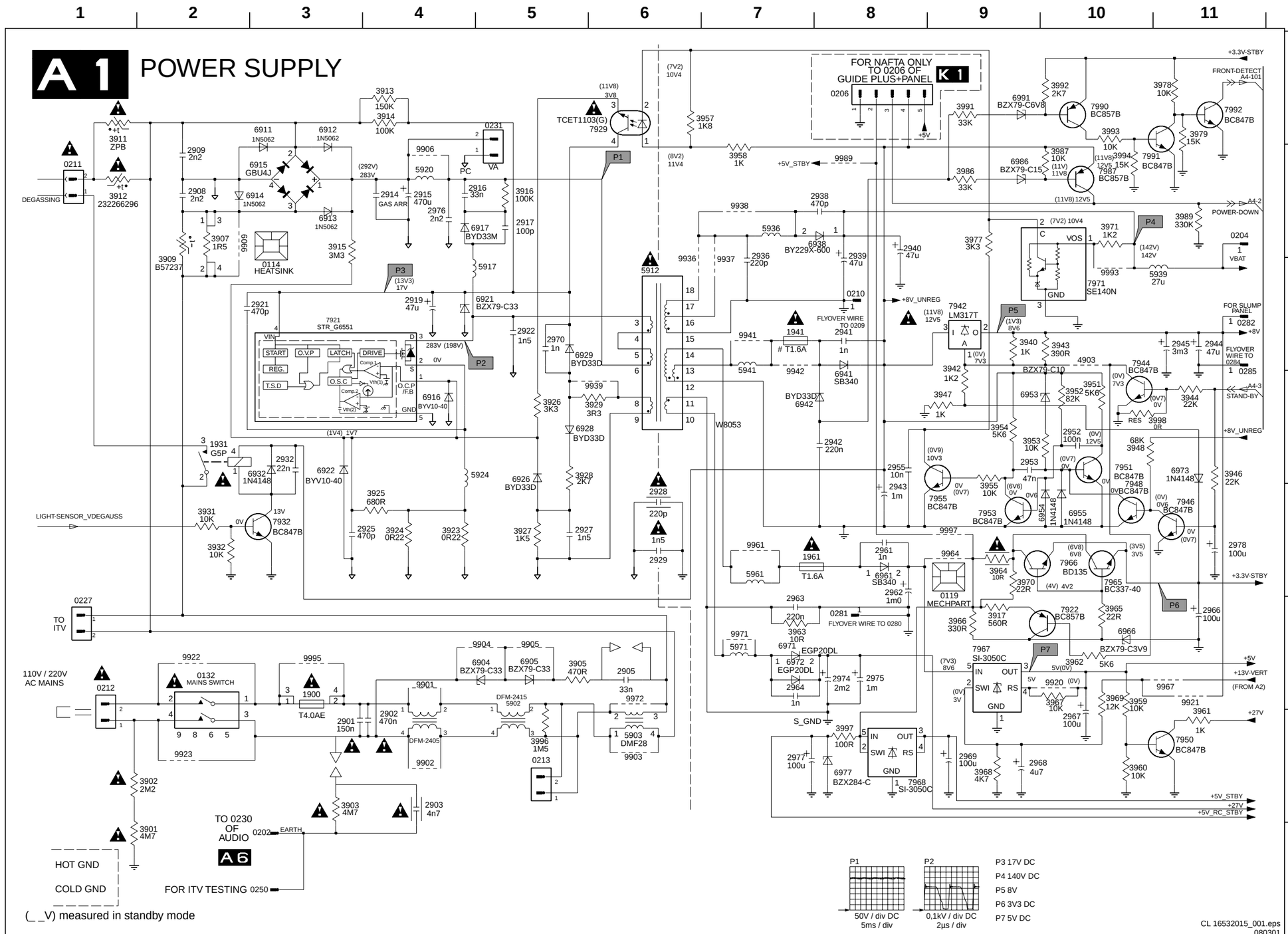
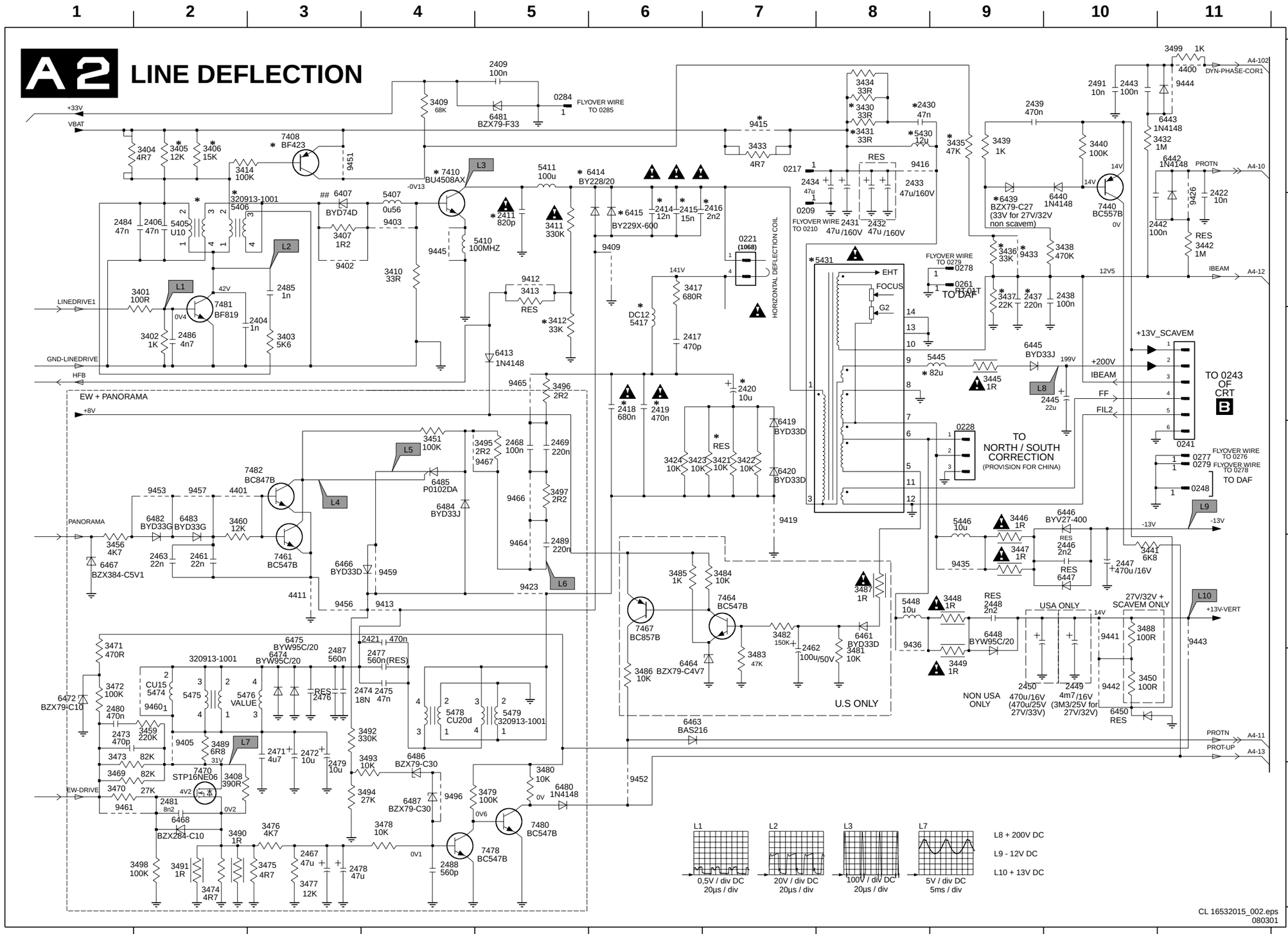
Schematics And PWB's

Power Supply



A	0114 C3	3954 D9	9905 F5
	0119 F9	3955 E9	9906 B4
	0132 F2	3957 A7	9909 B2
	0202 H3	3958 B7	9920 F10
	0204 B11	3959 F10	9921 F11
	0206 A8	3960 G10	9922 F2
	0210 C8	3961 F11	9923 G2
	0211 B1	3962 F10	9936 B6
	0212 F1	3963 F7	9937 B7
	0213 G5	3964 E9	9938 B7
	0227 F1	3965 F10	9939 D6
	0231 A5	3966 F9	9941 C7
	0250 H3	3967 F10	9942 D7
	0281 F8	3968 G9	9961 E7
	0282 C11	3969 F10	9964 E9
	0285 D11	3970 E9	9967 F11
	1900 F3	3971 B10	9971 F7
	1931 D2	3977 B9	9972 F6
B	1941 C7	3978 A11	9989 B8
	1961 E7	3979 A11	9993 C10
	2901 G3	3986 B9	9995 F3
	2902 G4	3987 B10	9997 E9
	2903 G4	3989 B11	
	2905 F6	3991 A9	
	2908 B2	3992 A10	
	2909 B2	3993 A10	
	2914 B4	3994 B10	
	2915 B4	3996 G5	
	2916 B5	3997 G8	
	2917 B5	3998 D11	
C	2919 C4	4903 C10	
	2921 C3	5902 F5	
	2922 C5	5903 G6	
	2925 E4	5912 C6	
	2927 E5	5917 C5	
	2928 E6	5920 B4	
	2929 E6	5924 D5	
	2932 D3	5936 B7	
	2936 B7	5939 C11	
	2938 B8	5941 D7	
	2939 B8	5961 E7	
	2940 B8	5971 F7	
D	2941 C8	6904 F5	
	2942 D8	6905 F5	
	2943 E8	6911 A3	
	2944 C11	6912 A3	
	2945 C11	6913 B3	
	2952 D10	6914 B3	
	2953 D9	6915 B3	
	2955 D8	6916 D4	
	2961 E8	6917 B5	
	2962 E8	6921 C5	
	2963 F7	6922 D3	
	2964 F7	6926 D5	
E	2966 F11	6928 D5	
	2967 G10	6929 C5	
	2968 G9	6932 D3	
	2969 G9	6938 B8	
	2970 C5	6941 D8	
	2974 F8	6942 D7	
	2975 F8	6953 D9	
	2976 B4	6954 E10	
	2977 G7	6955 E10	
	2978 E11	6961 E8	
	3901 H2	6966 F10	
	3902 G2	6971 F7	
F	3903 G3	6972 F7	
	3905 F5	6973 D11	
	3907 B2	6977 G8	
	3909 B2	6986 B9	
	3911 A1	6991 A9	
	3912 B1	7921 C3	
	3913 A4	7922 F10	
	3914 A4	7929 A6	
	3915 B3	7932 E3	
	3916 B5	7942 C9	
	3917 F9	7944 C10	
G	3923 E4	7946 E11	
	3924 E4	7948 E10	
	3925 E4	7950 G11	
	3926 D5	7951 D10	
	3927 E5	7953 E9	
	3928 D5	7955 E9	
	3929 D6	7965 E10	
	3931 E2	7966 E10	
	3932 E2	7967 F9	
	3940 C9	7968 G8	
	3942 D9	7971 C10	
H	3943 C10	7987 B10	
	3944 D11	7990 A10	
	3946 D11	7991 B10	
	3947 D9	7992 A11	
	3948 D10	9901 F4	
	3951 D10	9902 G4	
	3952 D10	9903 G6	
	3953 D9	9904 F5	

Line Deflection



0209 B7	3441 E10	7408 A3
0217 A7	3442 B11	7410 A4
0221 B7	3445 C9	7440 B10
0228 D9	3446 D9	7461 E3
0241 D11	3447 E9	7464 E7
0248 D11	3448 E9	7467 E6
0261 B9	3449 F9	7470 G2
0277 D11	3450 F10	7478 G5
0278 B9	3451 D4	7480 G5
0279 D11	3456 E1	7481 C2
0284 A5	3459 F2	7482 D2
2404 C3	3460 D2	9402 B3
2406 B2	3469 G1	9403 B4
2409 A5	3470 G1	9405 F2
2411 B5	3471 E1	9409 B6
2414 B6	3472 F1	9412 B5
2415 B6	3473 F1	9413 E4
2416 B7	3474 G2	9415 A7
2417 C6	3475 G3	9416 A8
2418 C6	3476 G3	9419 D7
2419 C6	3477 G3	9423 E5
2420 C7	3478 G4	9426 B11
2421 E4	3479 G5	9433 B9
2422 A11	3480 G5	9435 E9
2430 A8	3481 E8	9436 E8
2431 B8	3482 E7	9441 E10
2432 B8	3483 F7	9442 F10
2433 A8	3484 E7	9443 E11
2434 A7	3485 E6	9444 A11
2437 B9	3486 F6	9445 B4
2438 B10	3487 E8	9451 A3
2439 A9	3488 E10	9452 G6
2442 B11	3489 F2	9453 D2
2443 A10	3490 G2	9456 E3
2445 C10	3491 G2	9457 D2
2446 E10	3492 F4	9459 E4
2447 E10	3493 F4	9460 F2
2448 E9	3494 G4	9461 G1
2449 F10	3495 D5	9464 E5
2450 F9	3496 C5	9465 C5
2461 E2	3497 D5	9466 D5
2462 E7	3498 G2	9467 D5
2463 E2	3499 A11	9496 G4
2467 G3	4400 A11	
2468 D5	4401 D2	
2469 D5	4411 E3	
2471 F3	5405 B2	
2472 F3	5406 B2	
2473 F1	5407 B4	
2474 F4	5410 B5	
2475 F4	5411 A5	
2476 F3	5417 C6	
2477 F4	5430 A8	
2478 G3	5431 B7	
2479 F3	5445 C9	
2480 F1	5446 D9	
2481 G2	5448 E8	
2484 B1	5474 F2	
2485 B3	5475 F2	
2486 C2	5476 F2	
2487 E3	5478 F4	
2488 G4	5479 F5	
2489 E5	6407 B3	
2491 A10	6413 C5	
3401 B2	6414 A6	
3402 C2	6415 B6	
3403 C3	6419 D7	
3404 A2	6420 D7	
3405 A2	6439 B9	
3406 A2	6440 B10	
3407 B3	6442 A11	
3408 G2	6443 A11	
3409 A4	6445 C9	
3410 B4	6446 D10	
3411 B5	6447 E10	
3412 C5	6448 E9	
3413 B5	6450 F10	
3414 A2	6461 E8	
3417 B6	6463 F6	
3421 D7	6464 F6	
3422 D7	6466 E3	
3423 D6	6467 E1	
3424 D6	6468 G2	
3430 A8	6472 F1	
3431 A8	6474 F3	
3432 A11	6475 E3	
3433 A7	6480 G5	
3434 A8	6481 A5	
3435 A9	6482 D2	
3436 B9	6483 D2	
3437 B9	6484 D4	
3438 B10	6485 D4	
3439 A9	6486 F4	
3440 A10	6487 G4	

Diversity Table Diagram A2

ITEM	24PW6005	28PT5505	28PW6305	28PW6515	70WA6215	29PT5515	32PW6305	32PW6515	DESCRIPTION
2271		X	X	X			X	X	1U 20% 50V
2281	X	X	X		X		X		15P NP0 50V
2281				X				X	220P NP0 50V
2411	X								1N 10% 2KV
2411			X						1N2 10% 2KV
2411		X			X		X		1N5 10% 2KV
2411				X					1N8 10% 2KV
2411								X	2N2 10% 2KV
2415								X	10N 5% 1.6KV
2415		X		X					11N 5% 1.6KV
2415	X		X		X		X		12N 5% 1.6KV
2416				X				X	820P 10% 2KV
2416							X		1N 10% 2KV
2416					X				1N2 10% 2KV
2416	X								2N2 10% 2KV
2416			X						1N8 10% 2KV
2418	X		X		X				680N 5% 250V
2418							X		820N 5% 250V
2419		X							390N 5% 250V
2419				X				X	470N 5% 250V
2419				X				X	470N 5% 250V
2420		X	X		X				4U7 20% 250V
2420	X			X			X	X	2U2 20% 160V
2430			X	X			X	X	27N 10% 50V
2430	X	X			X				10N 10% 50V
2437	X								100N 10% 250V
2437		X	X		X				150N 10% 250V
2437							X	X	220N 10% 250V
2437				X					180N 10% 250V
2443			X						100N Y5V 25V
2461	X		X	X	X		X	X	100N 10% 50V
2463	X		X	X	X		X	X	100N 10% 50V
2469	X		X		X		X		220N 5% 250V
2469				X				X	68N 5% 400V
2471						X			4U7 10% 100V
2474		X							18N 10% 630V
2475	X	X	X	X	X		X	X	47N 10% 250V
2476	X				X		X	X	7N5 5% 1.6KV
2476				X					8N2 5% 1.6KV
2476			X						9N1 5% 1.6KV
2479				X				X	1U 20% 160V
2479	X	X	X		X		X		10U 20% 100V
2487	X	X		X	X		X	X	7N5 5% 1.6KV
2487			X						9N1 5% 1.6KV
2488	X	X	X	X	X		X	X	100N 16V 0805
2489	X		X	X	X		X	X	220N 5% 250V
2491			X						220N Y5V 25V
3220								X	150K 5% 0805
3220			X						220K 5% 0805
3220	X	X		X	X		X		82K 5% 0805
3271	X		X	X	X		X	X	33K 5% 0805
3271		X							82K 5% 0805
3272			X	X			X	X	10K 5% 0805
3272		X							2K2 5% 0805
3405	X			X	X			X	4K7 5% 5W
3405			X				X		5K6 5% 5W
3405		X							6K8 5% 5W
3412	X	X	X	X	X		X		100K 5% 1/6W
3430	X			X	X		X	X	33R 5% 3W
3430		X	X						68R 5% 3W
3432			X						820K 5% 0805
3434		X	X						68R 5% 3W
3435							X		27K 5% 1/6W
3435		X	X	X				X	39K 5% 1/6W
3435	X				X				47K 5% 1/6W
3436			X	X					39K 5% 1/6W
3436								X	47K 5% 1/6W
3436							X		56K 5% 1/6W
3436	X	X			X				68K 5% 1/6W
3437			X	X			X	X	22K 5% 1/6W
3437	X	X			X				33K 5% 1/6W
3442								X	560K 5% 0805
3442			X				X		820K 5% 0805
3442				X					560K 5% 0805
3442	X	X			X				1M 5% 0805

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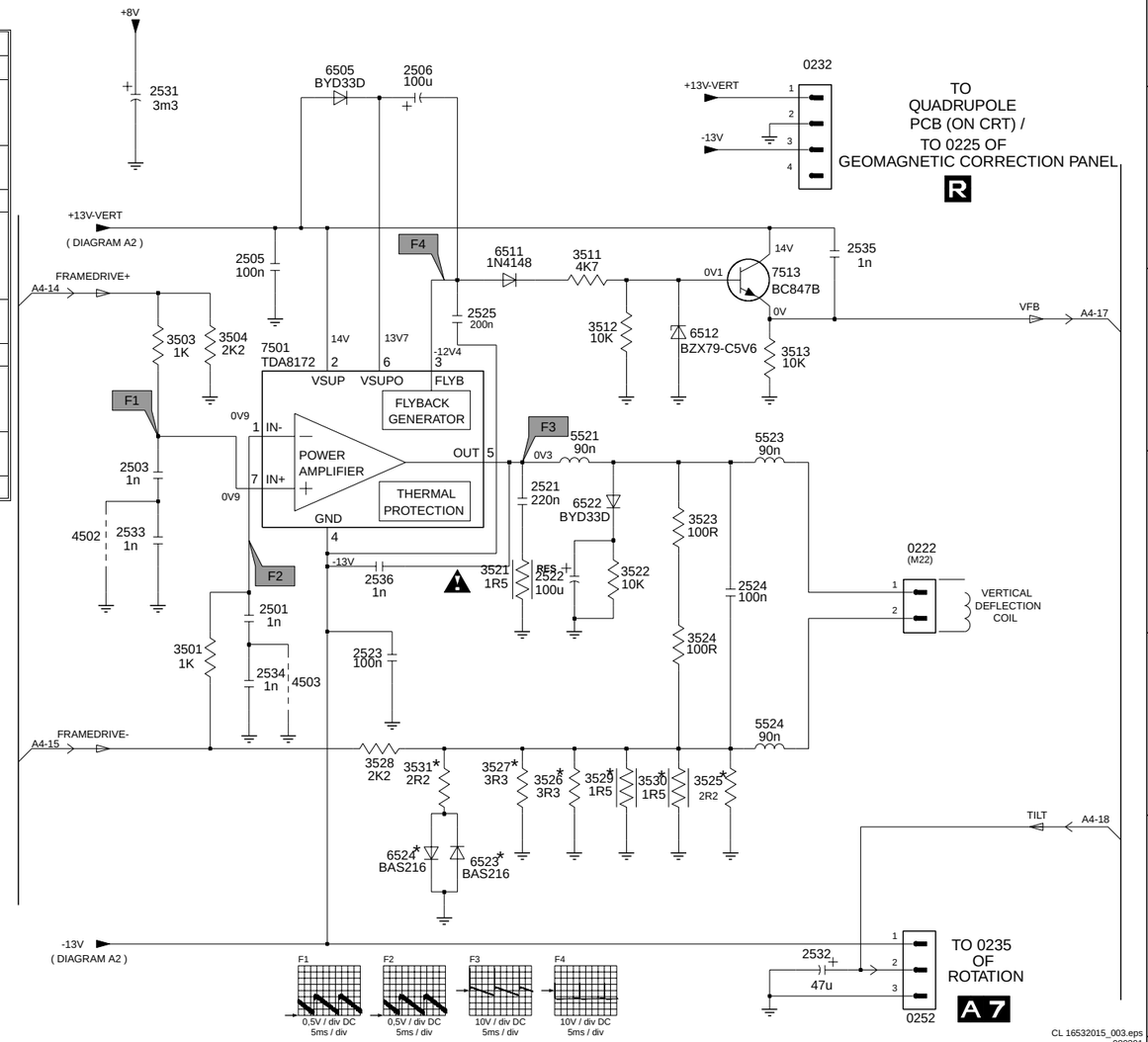
A3 FRAME DEFLECTION

Subject (page)	Location	Correction	
		Present situation	**Corrected situation**
Chapter 1 (2)	1.1.1 Reception		Add **NTSC**
	Stdby consumpt.	<= 3 W	**<** 3 W
	1.2.2 EXT2	10-	10- **Easy link**
Overviews (26)	SSB comp. side	Testpoint V2 at pin 26 of IC7301	Testpoint V2 at pin **54** of IC7301
	IC overview	IC overview	I²**C** overview
Diagram A1 (28)	B1	Degassing coil	**Degaussing** coil
Diagram A4 (31)	A3	To 0226 of SSB-connector [C6]	To 0226 of SSB-connector [**C8**]
	E1	A6-31	A6-**30**
	G2	A6-34 'AUDIO-C'	A6-34 '**AUDIO-SURR**'
	G5	A6-51 'AUDIO-SURR'	A6-51 '**AUDIO-C**'
Diagram A6 (33)	G2	A4-34 'AUDIO-C'	A4-34 '**AUDIO-SURR**'
	H2	A4-51 'AUDIO-SURR'	A4-51 '**AUDIO-C**'
Diagram C2 (41)	C1	C2-78	**C1**-78
Diagram C4 (44)	D7	Internal circuit 7064 is wrong	See A10E-DPL manual page 29
	F10	To memory [C4]	To memory [**C5**]
	H1/H2	To SSB connector [C7]	To SSB connector [**C8**]
Diagram C6 (45)	D11	'AUDIO-SURR' C8-56	'**AUDIO-C**' C8-56
	D11	'AUDIO-C' C8-57	'**AUDIO-SURR**' C8-57
Diagram C8 (47)	F2	C6-56 'AUDIO-SURR'	C6-56 '**AUDIO-C**'



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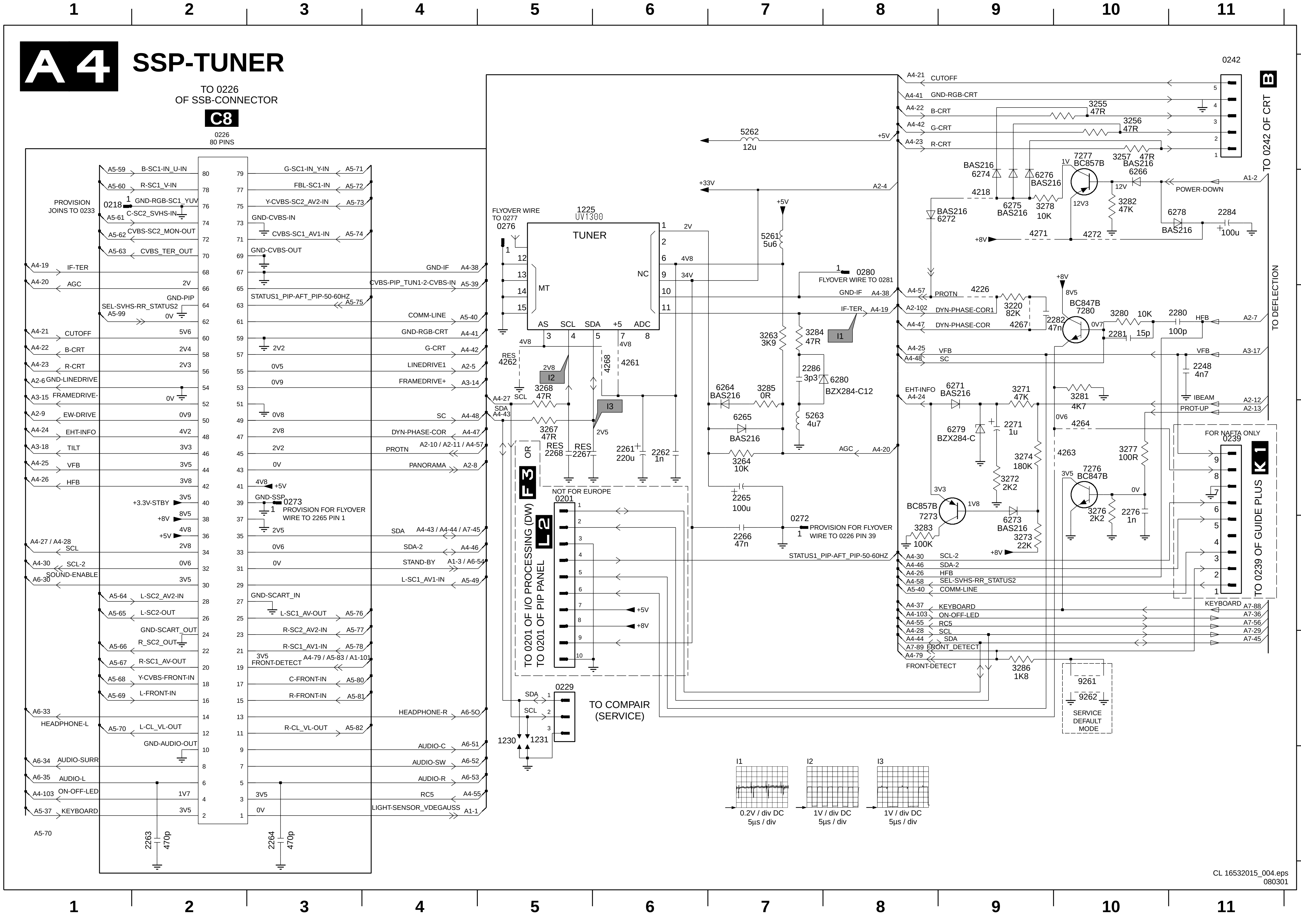
0222 D8
0232 A8
0252 F8
2501 D5
2503 D4
2505 B5
2506 A6
2521 D6
2522 D6
2523 E5
2524 D8
2525 C6
2531 B3
2532 F8
2533 D4
2534 E5
2535 B8
2536 D5
3501 E4
3503 C4
3504 C5
3511 B7
3512 C7
3513 C8
3521 D6
3522 D7
3523 D7
3524 D7
3525 E7
3526 E6
3527 E6
3528 E6
3529 E7
3530 E7
3531 E6
4502 D4
4503 E5
5521 C7
5523 C8
5524 E8
6505 A5
6511 B6
6512 C7
6522 D7
6523 F6
6524 F6
7501 C5
7513 C8

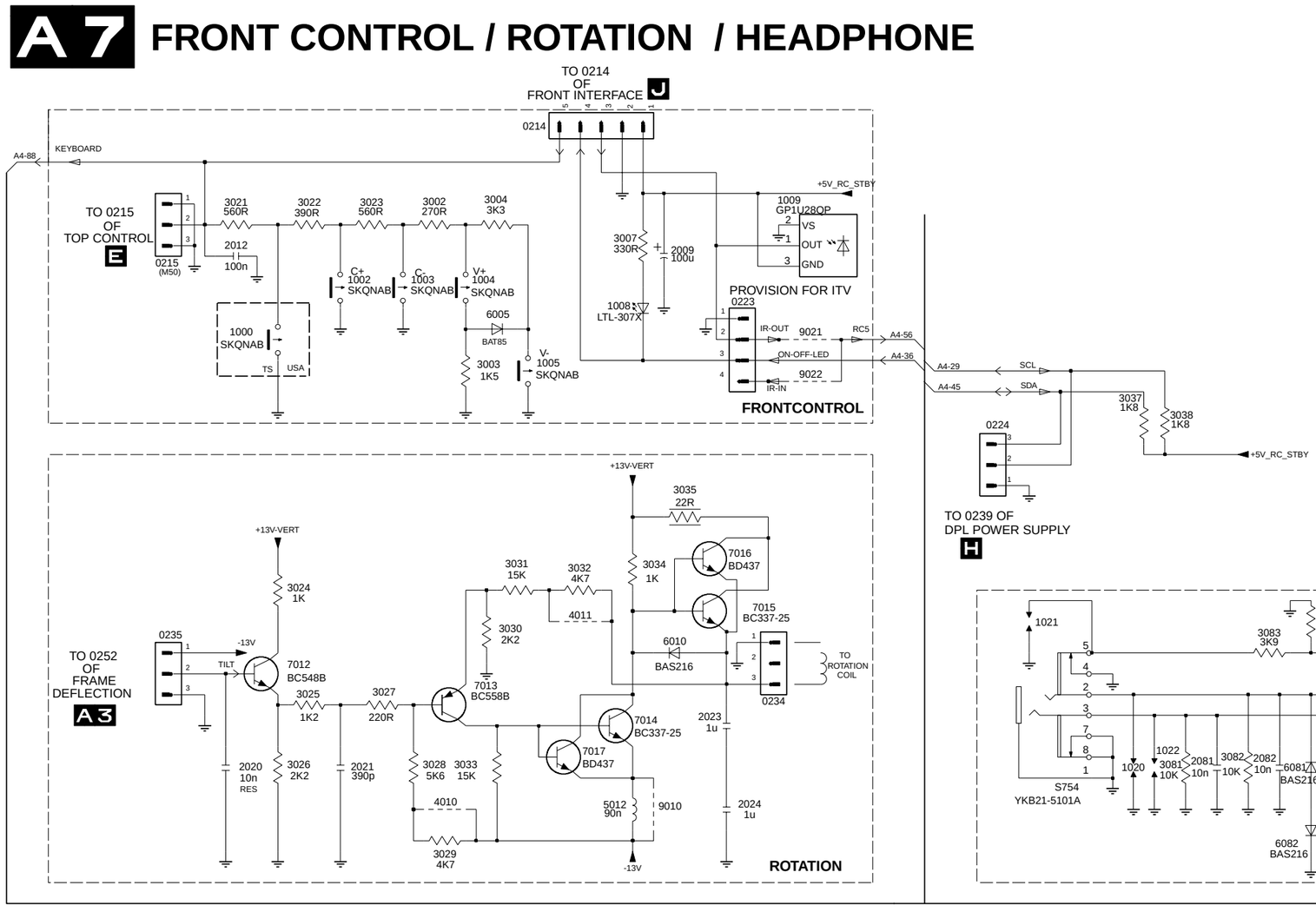
SSP-Tuner



0201 D5
0218 B1
0226 A2
0229 F5
0239 D11
0242 A11
0272 E7
0273 D3
0276 B5
0280 B8
1225 B5
1230 F5
1231 F5
2248 C11
2261 D6
2262 D6
2263 G2
2264 G3
2265 D7
2266 E7
2267 D5
2268 D5
2271 D9
2276 D10
2280 C11
2281 C10
2282 C10
2284 B11
2286 C7
3220 C9
3255 A10
3256 A10
3257 A10
3263 C7
3264 D7
3267 D5
3268 C5
3271 C9
3272 D9
3273 E9
3274 D9
3276 D10
3277 D10
3278 B9
3280 C10
3281 C10
3282 B10
3283 E8
3284 C7
3285 C7
3286 F9
4218 B9
4226 C9
4261 C6
4262 C5
4263 D10
4264 D10
4267 C9
4268 C6
4271 B9
4272 B10
5261 B7
5262 A7
5263 D7
6264 C7
6265 D7
6266 A10
6271 C9
6272 B9
6273 E9
6274 B9
6275 B9
6276 B9
6278 B11
6279 D9
6280 C8
7273 D8
7276 D10
7277 A10
7280 C10
9261 F10
9262 F10

Front Control / Rotation / Headphone

A7 FRONT CONTROL / ROTATION / HEADPHONE



0214 B5
0215 B2
0223 C6
0224 D8
0234 E6
0235 E2
1000 C3
1002 C4
1003 C4
1004 C4
1005 C5
1008 C5
1009 B7
1020 F9
1021 E8
1022 F9
2009 B6
2012 B3
2020 F3
2021 F4
2023 F6
2024 F6
2081 F9
2082 F10
3002 B4
3003 C5
3004 B5
3007 B5
3021 B3
3022 B3
3023 B4
3024 E3
3025 E3
3026 F3
3027 E4
3028 F4
3029 F4
3030 E5
3031 D5
3032 E5
3033 F4
3034 D6
3035 D6
3037 C9
3038 C9
3081 F9
3082 F10
3083 E10
3084 E10
4010 F4
4011 E5
5001 E11
5002 F11
5012 F5
5013 E10
5014 F10
6005 C5
6010 E6
6081 F10
6082 F10
6083 F10
6084 F10
7012 E3
7013 E4
7014 F6
7015 E6
7016 D6
7017 F5
9010 F6
9015 E10
9016 F10
9021 C7
9022 C7
S754 F9

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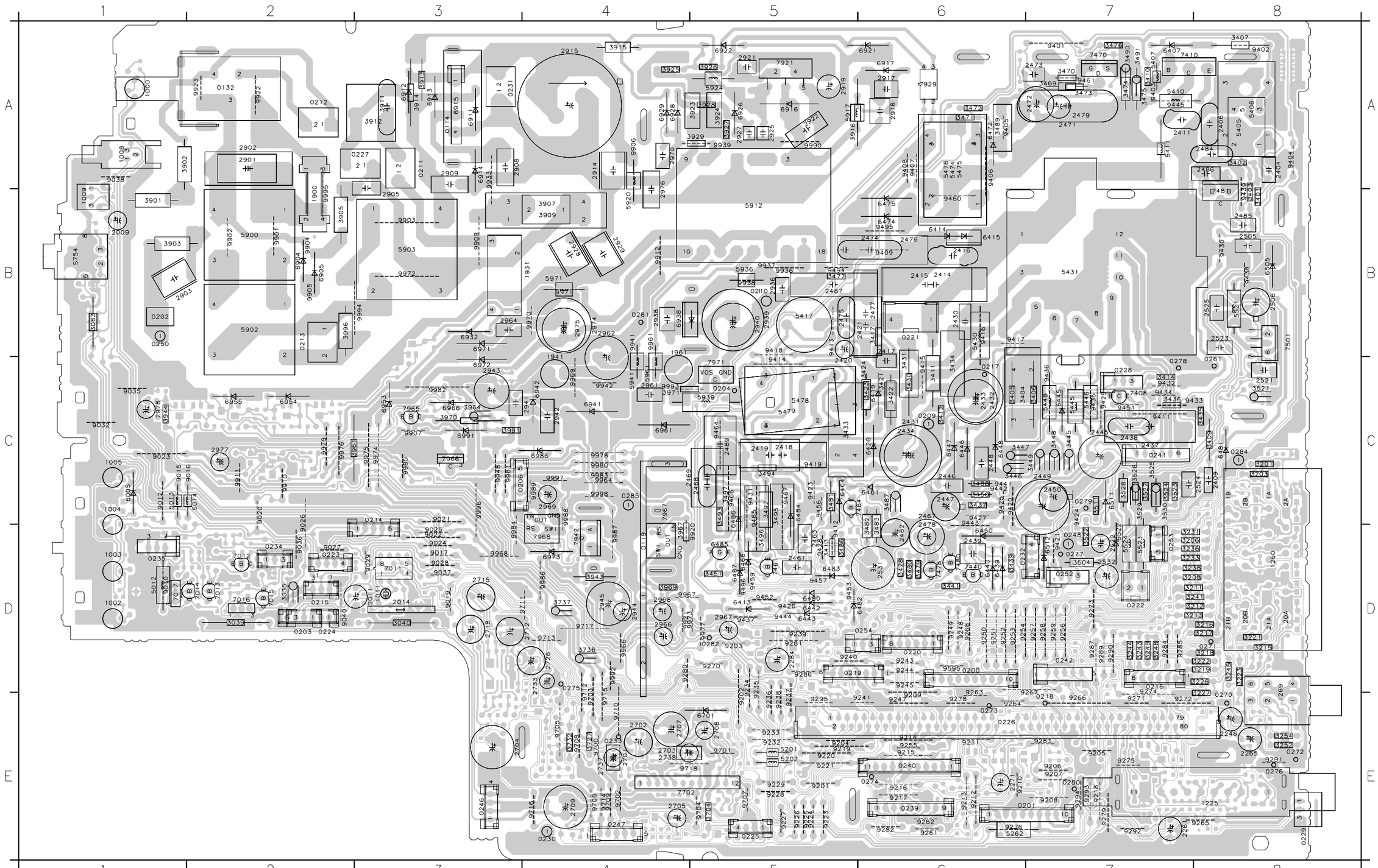
Layout LSP (Top View)



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Mapping LSP (Top View)

0114 A3 2701 E4 3491 A7 6941 C4 9291 E8
0119 D4 2702 E4 3492 C5 6942 C4 9292 E7
0132 A2 2703 E4 3493 C5 6953 C3 9293 E7
0200 D6 2704 A3 3494 C5 6954 C2 9294 E7
0201 E7 2705 E4 3495 C5 6955 C2 9295 E5
0202 B1 2707 E4 3496 D5 6961 C4 9401 A7
0203 D2 2708 E5 3497 C5 6966 C3 9402 A6
0204 C5 2709 E4 3504 A7 6971 B3 9403 A7
0206 C3 2712 D4 3511 C7 6972 C3 9404 A8
0209 C6 2715 D3 3521 C6 6973 D4 9405 A6
0210 B5 2718 D3 3522 C7 6986 C4 9406 A6
0211 A3 2726 D4 3523 C7 6991 C3 9407 A6
0212 A2 2733 D4 3524 C7 7011 D3 9408 A6
0213 B3 2737 E4 3525 C7 7012 D2 9409 B6
0214 C3 2738 E4 3526 C7 7013 D2 9411 C7
0215 D2 2901 A2 3527 C7 7014 D2 9412 D5
0216 D7 2902 A2 3528 C7 7015 D2 9413 B5
0217 C6 2903 B1 3529 C7 7016 D2 9414 C5
0218 E7 2905 D3 3530 C7 7017 D1 9415 C6
0219 D5 2908 A3 3704 E5 7408 C7 9416 B6
0220 D6 2909 A3 3727 E4 7410 A7 9417 B6
0221 B6 2914 A4 3732 E4 7440 D6 9418 B5
0222 D7 2915 A4 3736 D4 7461 D2 9419 C5
0223 D2 2916 A6 3737 D4 7464 C6 9420 C6
0224 D5 2917 A6 3901 B1 7470 A7 9421 D7
0225 E5 2919 A5 3902 A1 7478 D6 9423 C5
0226 E6 2921 A5 3903 B1 7480 D6 9424 C7
0227 A3 2922 A5 3905 B2 7481 B8 9425 C6
0228 C7 2925 A5 3907 B4 7501 B8 9426 D5
0229 E8 2927 A5 3909 B4 7702 E4 9427 C6
0230 E4 2928 B4 3911 A3 7921 A5 9428 D5
0231 A3 2929 B4 3912 A3 7929 A6 9429 C7
0232 D6 2936 B5 3913 A3 7942 D4 9430 B8
0233 E4 2938 B4 3914 A3 7965 C3 9431 C5
0234 D2 2939 B5 3915 A4 7966 C3 9432 C7
0235 D1 2940 B5 3916 A5 7967 C4 9433 C6
0238 E6 2941 C4 3923 A5 7968 D4 9434 C7
0240 E6 2942 C4 3924 A5 7971 C5 9435 C7
0241 C7 2943 C3 3925 A4 9010 D1 9436 C7
0242 D7 2944 D4 3926 A5 9012 C1 9437 D5
0246 E3 2945 D4 3927 A5 9015 C1 9438 B8
0247 E4 2961 C4 3928 A5 9016 C2 9439 B8
0248 D7 2962 B4 3929 A5 9017 D3 9441 C6
0250 B1 2964 B3 3943 D4 9019 C3 9442 C6
0252 D7 2966 D4 3944 C1 9020 C2 9443 C6
0253 D7 2967 D5 3961 C2 9021 C3 9444 D5
0254 D6 2968 D4 3964 C3 9022 D3 9445 A7
0261 C8 2969 C4 3967 D4 9023 C1 9451 C7
0270 C8 2970 A4 3969 D4 9024 D3 9452 D5
0271 D8 2974 B4 3970 C3 9025 D3 9453 D5
0272 E8 2975 B4 3971 C4 9026 C2 9456 C5
0273 E6 2976 B4 3991 C3 9027 D2 9457 D5
0274 E6 2977 C2 3996 B2 9028 D3 9459 D5
0275 D4 2978 C1 5012 D1 9029 D3 9460 B6
0276 E8 3035 D2 5013 C1 9032 C1 9461 A7
0277 D7 3039 D2 5014 C2 9035 C1 9464 C5
0278 C7 3040 D3 5201 E5 9036 D2 9465 C5
0279 C7 3083 B1 5202 E5 9037 D3 9466 C5
0280 E7 3201 C8 5262 E6 9038 A1 9467 C5
0281 B4 3203 C8 5405 A8 9040 D2 9494 B5
0282 D5 3206 D7 5406 A8 9201 E5 9495 B6
0284 C8 3208 D7 5407 A7 9202 E5 9496 D5
0285 C4 3211 D8 5410 A7 9203 D5 9695 D6
1000 A1 3212 D8 5411 A7 9204 E5 9700 E4
1002 D1 3213 D8 5417 B5 9205 E7 9701 E5
1003 D1 3215 D8 5430 B6 9206 E7 9702 E4
1004 C1 3216 D8 5431 B7 9207 E7 9703 E4
1005 C1 3217 D8 5445 C7 9208 E7 9704 E5
1008 A1 3218 D8 5446 C7 9209 E6 9705 E4
1009 B1 3219 D8 5448 C7 9210 E6 9706 E4
1011 D3 3221 D8 5474 A6 9211 E6 9707 E5
1225 E8 3222 D8 5475 A6 9212 E6 9708 E4
1260 D8 3223 D8 5476 A6 9213 E6 9709 E4
1269 E8 3226 D8 5478 C5 9214 E6 9710 E4
1900 C2 3227 D8 5479 C5 9215 E6 9711 D3
1931 B4 3231 D7 5521 B8 9216 E6 9712 D4
1941 C4 3233 D7 5523 D7 9217 E6 9713 D4
1961 B4 3236 D7 5524 D7 9218 E7 9714 E4
2009 B1 3238 D7 5900 B2 9219 E5 9715 E4
2011 D3 3241 D8 5902 B2 9220 E5 9716 E4
2014 D3 3243 D7 5903 B3 9221 E5 9717 D4
2246 E8 3244 D7 5912 B6 9223 E5 9718 E4
2261 E7 3245 D8 5917 A5 9224 E5 9901 B2
2265 E8 3248 D7 5920 B4 9225 E5 9902 B2
2271 E6 3249 D7 5924 A5 9226 E5 9903 B3
2284 D5 3252 E8 5936 B5 9227 E5 9904 B2
2404 A8 3254 E8 5939 C5 9228 E5 9905 B2
2406 A8 3401 B8 5941 C4 9229 E5 9906 A4
2409 C8 3402 A8 5961 C4 9230 E5 9907 C3
2411 A7 3403 B8 5971 B4 9233 E5 9909 B3
2414 B6 3404 C6 6005 C1 9234 D5 9910 C2
2415 B6 3405 C6 6407 A7 9235 D5 9911 C2
2416 B6 3406 C7 6413 D6 9236 E5 9912 B4
2417 B6 3407 A8 6414 B6 9237 E5 9920 D5
2418 C5 3409 C8 6415 B6 9238 E5 9921 D4
2419 C5 3410 A7 6419 C6 9239 D5 9922 A2
2420 C5 3411 C6 6420 C6 9240 D5 9923 A2
2421 B6 3412 C6 6439 D6 9241 E6 9933 A3
2430 B6 3413 D5 6440 D6 9243 D6 9936 B5
2431 C6 3414 C7 6442 D5 9244 D6 9937 B5
2432 C6 3417 B6 6443 D5 9245 D6 9938 B5
2433 C6 3421 C6 6445 C7 9247 E6 9939 A5
2434 C6 3422 C6 6446 C6 9248 D6 9941 B4
2437 C7 3423 C6 6447 C6 9249 D6 9942 C4
2438 C7 3424 C6 6448 C6 9250 D6 9948 C3
2439 D6 3430 C6 6450 D6 9251 D6 9961 B4
2445 C7 3431 C6 6461 C6 9252 D6 9964 C4
2446 C6 3433 C5 6464 C6 9253 D6 9966 D4
2447 C6 3434 C6 6466 D5 9254 D6 9967 D4
2448 C6 3435 C8 6472 A6 9255 E6 9968 D3
2449 C7 3436 C7 6474 B6 9256 D7 9969 C4
2450 C7 3437 C6 6475 B6 9257 D7 9970 B4
2461 D5 3439 D6 6480 D5 9258 D7 9971 B4
2462 D6 3441 D6 6481 C8 9259 D7 9972 B3
2463 D5 3445 C7 6482 D5 9261 E6 9973 D4
2467 D6 3446 C6 6483 D5 9262 E7 9974 C3
2468 C5 3447 C6 6484 C5 9263 D6 9975 C3
2469 C4 3448 C7 6485 D5 9264 E6 9976 C2
2471 A7 3449 C6 6486 C5 9265 E6 9977 D5
2472 A7 3450 C6 6487 D5 9266 E7 9978 C4
2473 A7 3451 D5 6505 B8 9267 E7 9979 C2
2474 B6 3469 A7 6511 C7 9268 D6 9980 C4
2475 B5 3470 A7 6512 D7 9270 D5 9981 C3
2476 B6 3471 A6 6522 D7 9271 E7 9982 C3
2477 B6 3472 A6 6701 E5 9272 E7 9983 C4
2478 D6 3473 A7 6904 B2 9273 D7 9984 D3
2479 A7 3474 A7 6905 B2 9274 D7 9985 C3
2484 A8 3475 A7 6911 A3 9275 E7 9986 D4
2485 B8 3476 A7 6912 A3 9276 E6 9987 D4
2486 A8 3477 B5 6913 A3 9278 E6 9988 C4
2487 B5 3478 D6 6914 A3 9279 E7 9989 C4
2489 C5 3479 D6 6915 A3 9280 D4 9990 A5
2505 B8 3480 D6 6916 A5 9281 D5 9992 D4
2506 B8 3481 C5 6917 A6 9282 E6 9993 C4
2521 C8 3482 D6 6921 A6 9283 E7 9994 B3
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2523 B8 3486 D5 6925 A5 9285 D7 9996 C2
2524 C8 3487 C5 6928 A4 9286 D5 9997 C4
2525 B8 3488 C6 6929 A4 9287 D7 9998 C4
2531 D6 3489 A6 6932 B3 9289 D7 S754 B1
2532 D7 3490 A7 6938 B4 9290 D7

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070301

Mapping LSP (Bottom View)

2012 B2 3284 A7 4253 B6
2020 B1 3285 A7 4255 C7
2021 B1 3286 A5 4256 C7
2023 B2 3408 E7 4258 A7
2024 B2 3432 B6 4259 A7
2081 D1 3438 B6 4261 A7
2082 D1 3440 B6 4262 A7
2201 C7 3442 B5 4263 A6
2202 A6 3456 B5 4264 A6
2203 C7 3459 B6 4267 A6
2206 B7 3460 B5 4268 A7
2208 B7 3484 B5 4269 B5
2211 B7 3485 C5 4271 B5
2214 B7 3498 B6 4272 B5
2215 B7 3499 B5 4273 B7
2217 B7 3501 C7 4277 A7
2218 A7 3503 C7 4279 A5
2222 A7 3512 B6 4283 C7
2225 A7 3513 B6 4285 B7
2227 A7 3531 B7 4292 B5
2231 B7 3701 A4 4293 B6
2235 A7 3702 A4 4294 A7
2236 B7 3703 A3 4295 A7
2238 B7 3705 A4 4296 A7
2242 B7 3706 A4 4297 A7
2244 B7 3707 A4 4298 A7
2247 A7 3708 A4 4299 B6
2248 A6 3709 A4 4400 B5
2249 B7 3710 A3 4401 B5
2251 A7 3711 A3 4402 B6
2253 A7 3712 B3 4403 B6
2262 A7 3713 B3 4404 B6
2263 A5 3714 A3 4405 B7
2264 A5 3715 B3 4406 B5
2266 A7 3716 A3 4407 B5
2267 A7 3717 B3 4408 B5
2268 A7 3718 A3 4410 C7
2276 B5 3719 A3 4411 C5
2280 A6 3720 B3 4412 C7
2281 A6 3721 A4 4413 E7
2282 A6 3722 A3 4414 E7
2286 A7 3723 B3 4415 E7
2422 B5 3724 A4 4416 E7
2423 B5 3725 A4 4417 D7
2443 B5 3726 A4 4418 E7
2480 E6 3728 A3 4502 C7
2481 E7 3730 A4 4503 C7
2488 B6 3731 A4 4701 A3
2491 B5 3733 A4 4702 A3
2501 C7 3734 A4 4703 A3
2503 C7 3735 A4 4704 A3
2533 C7 3917 C3 4706 A5
2534 C7 3931 C2 4707 A4
2535 B6 3932 C2 4708 A4
2536 C7 3940 B3 4709 A4
2706 A4 3942 B3 4710 B3
2711 A3 3946 C1 4711 B3
2713 B3 3947 C3 4712 B3
2714 B3 3948 C1 4713 B3
2716 B3 3951 C2 4714 A4
2717 A3 3952 C2 4715 A4
2719 A4 3953 C2 4716 A3
2720 A4 3954 C2 4901 C2
2722 A4 3955 C2 4902 C2
2723 A4 3956 C6 4903 D1
2724 A3 3958 C4 5001 B3
2725 A3 3959 C3 5002 B3
2727 A4 3960 C2 5011 B2
2728 A4 3962 C1 5261 A7
2729 A4 3963 C3 5263 A7
2730 A4 3965 C3 6010 B1
2731 A3 3966 C3 6011 B2
2732 A3 3968 B4 6081 B1
2734 A3 3977 C4 6082 B1
2932 D3 3978 C2 6083 C1
2952 C2 3979 C1 6084 C1
2953 C2 3986 C3 6264 A7
2955 C2 3987 C3 6265 A7
2963 C3 3989 B4 6266 B5
3002 B1 3992 C2 6271 A6
3003 C2 3993 C2 6272 B5
3004 B1 3994 C2 6273 A6
3007 D1 3997 C1 6274 B6
3011 B2 3998 C1 6275 A6
3012 B2 4002 B2 6276 B6
3013 B2 4005 B1 6278 B4
3014 B2 4010 B1 6279 A6
3021 B1 4011 B1 6280 A7
3022 B1 4012 B2 6281 C7
3023 B1 4013 B2 6282 C7
3024 B1 4201 A5 6283 C7
3025 B1 4202 B7 6284 B7
3026 B1 4203 A5 6285 B7
3027 B1 4204 A5 6286 B7
3028 B1 4205 A6 6287 B7
3029 B1 4207 A6 6288 B7
3030 B1 4208 A6 6289 B7
3031 B1 4209 A5 6290 B7
3032 B1 4210 A5 6463 B5
3033 B1 4211 C7 6467 B6
3034 B2 4212 B7 6468 E7
3036 E1 4213 B7 6523 B6
3037 B2 4214 A5 6524 B6
3038 B2 4215 A6 6977 C1
3081 D1 4216 B7 7224 A7
3082 D1 4217 B5 7226 A7
3084 B1 4218 B5 7273 A6
3202 C7 4219 A7 7276 B5
3204 C7 4220 A7 7277 B5
3207 C7 4221 B7 7280 A6
3209 B7 4222 A7 7467 B5
3214 B7 4223 B6 7482 A4
3220 A6 4224 A7 7513 B6
3224 A7 4225 B6 7701 A4
3232 B7 4226 B5 7703 B3
3234 B7 4227 A7 7704 A4
3237 B7 4228 A6 7710 A4
3239 B7 4229 A5 7711 A4
3242 B7 4230 A5 7712 A3
3246 B7 4231 A6 7722 C3
3247 A7 4232 A6 7932 D2
3251 A7 4233 B5 7944 C1
3253 A7 4234 B6 7946 C1
3255 A6 4235 B7 7948 C1
3256 A6 4236 A7 7950 C2
3257 B6 4237 A7 7951 C1
3263 A7 4238 B7 7953 C2
3264 A7 4239 A6 7955 C2
3267 A7 4240 B7 7987 B3
3268 A7 4241 B7 7990 C2
3271 A6 4242 B7 7991 C2
3272 A6 4243 B7 7992 C2
3273 A6 4244 B5
3274 A6 4245 B6
3276 B5 4246 A7
3277 B5 4247 A7
3278 B5 4248 A6
3280 A6 4249 B6
3281 A6 4250 B7
3282 B5 4251 B7
3283 A6 4252 B5

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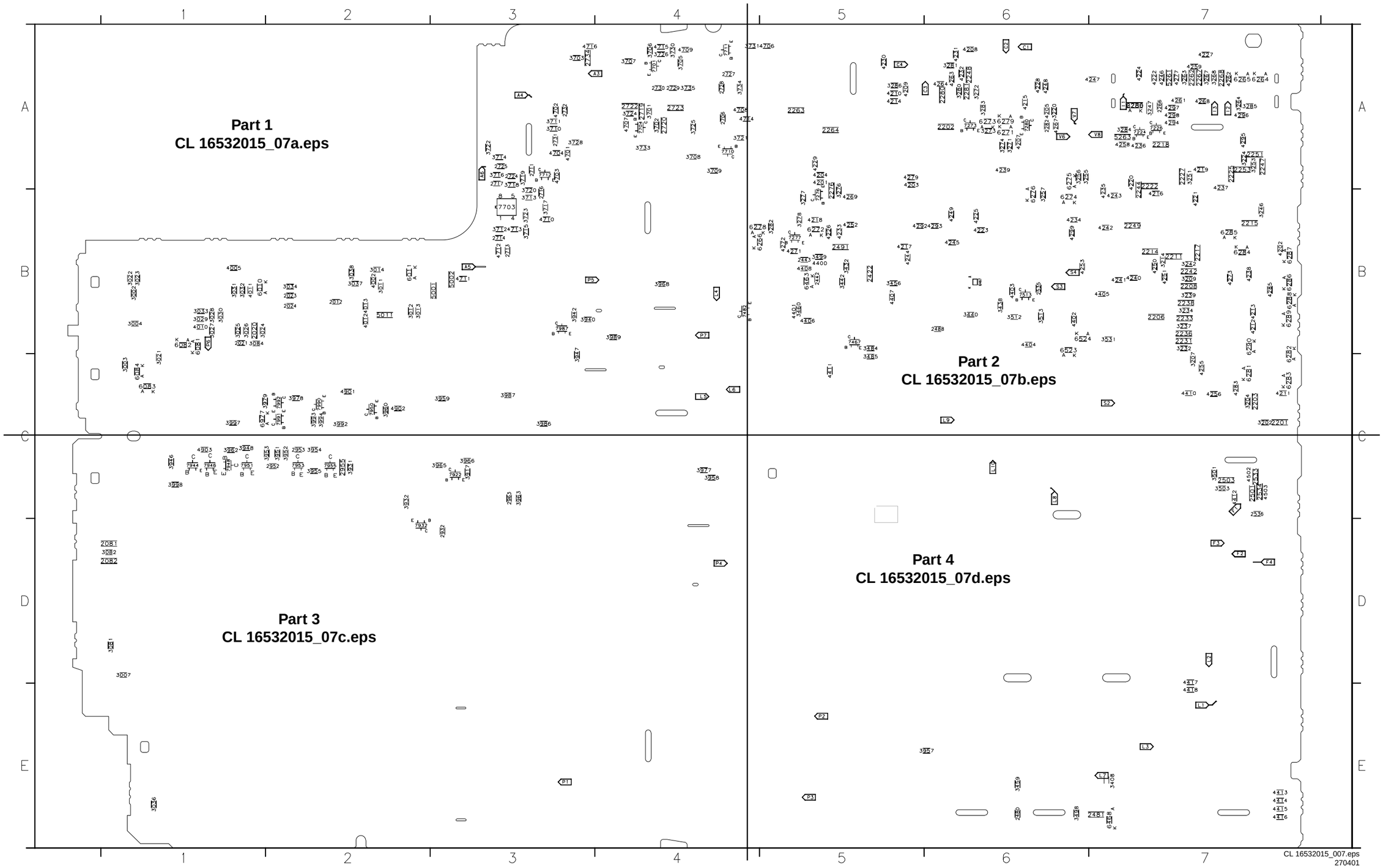
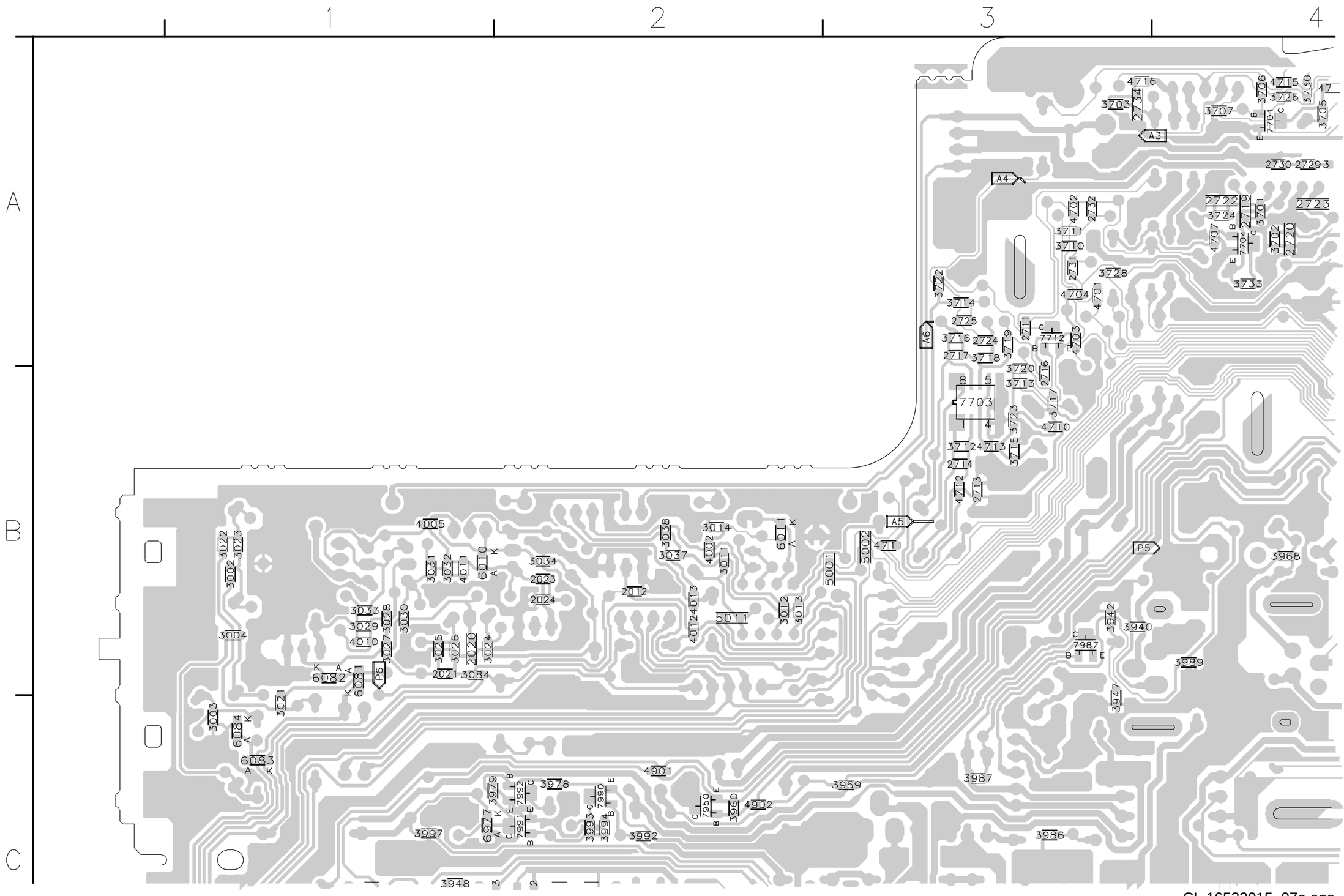
080301

Layout LSP (Overview Bottom View)

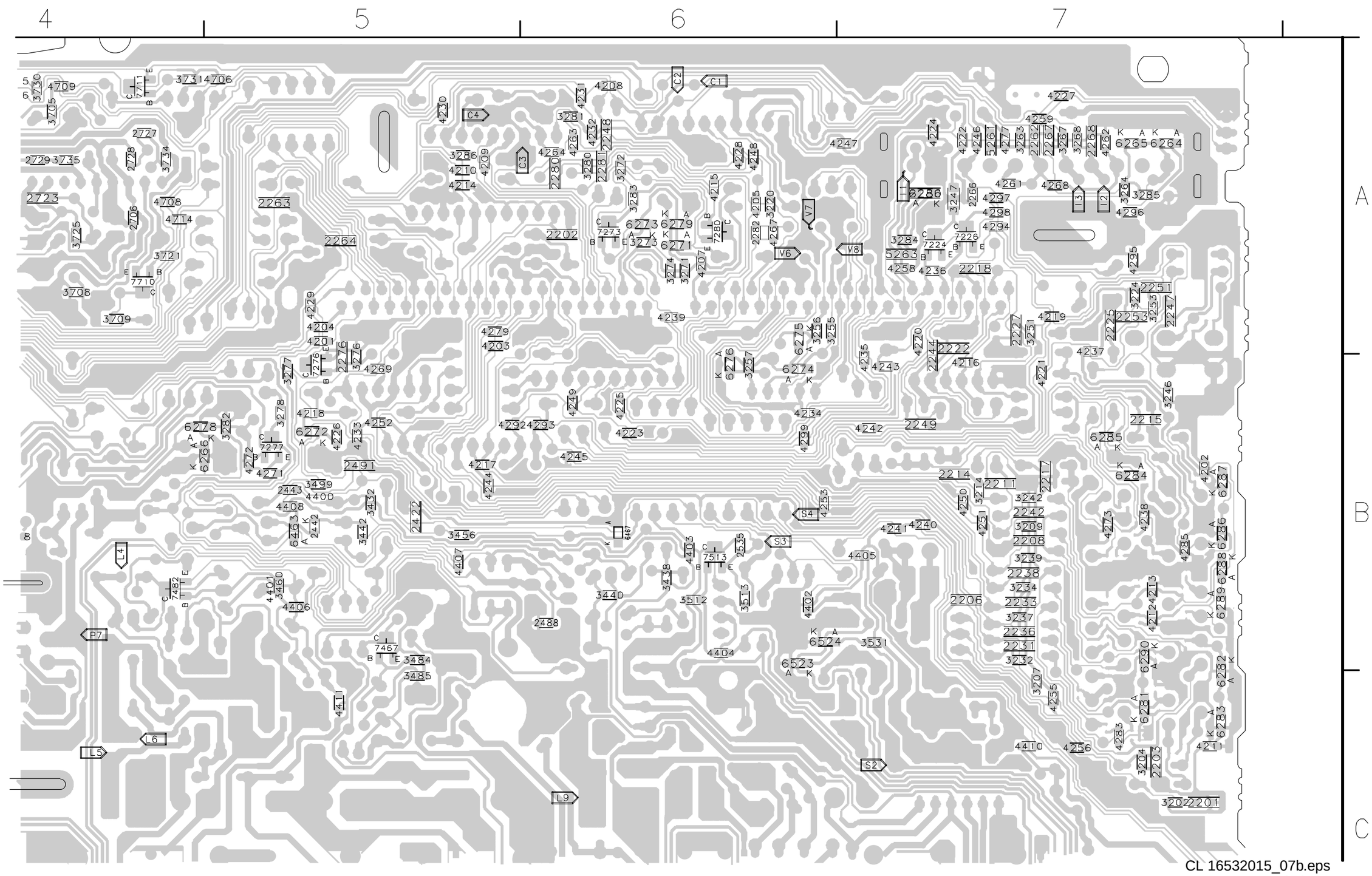


Layout LSP (Part 1 Bottom View)



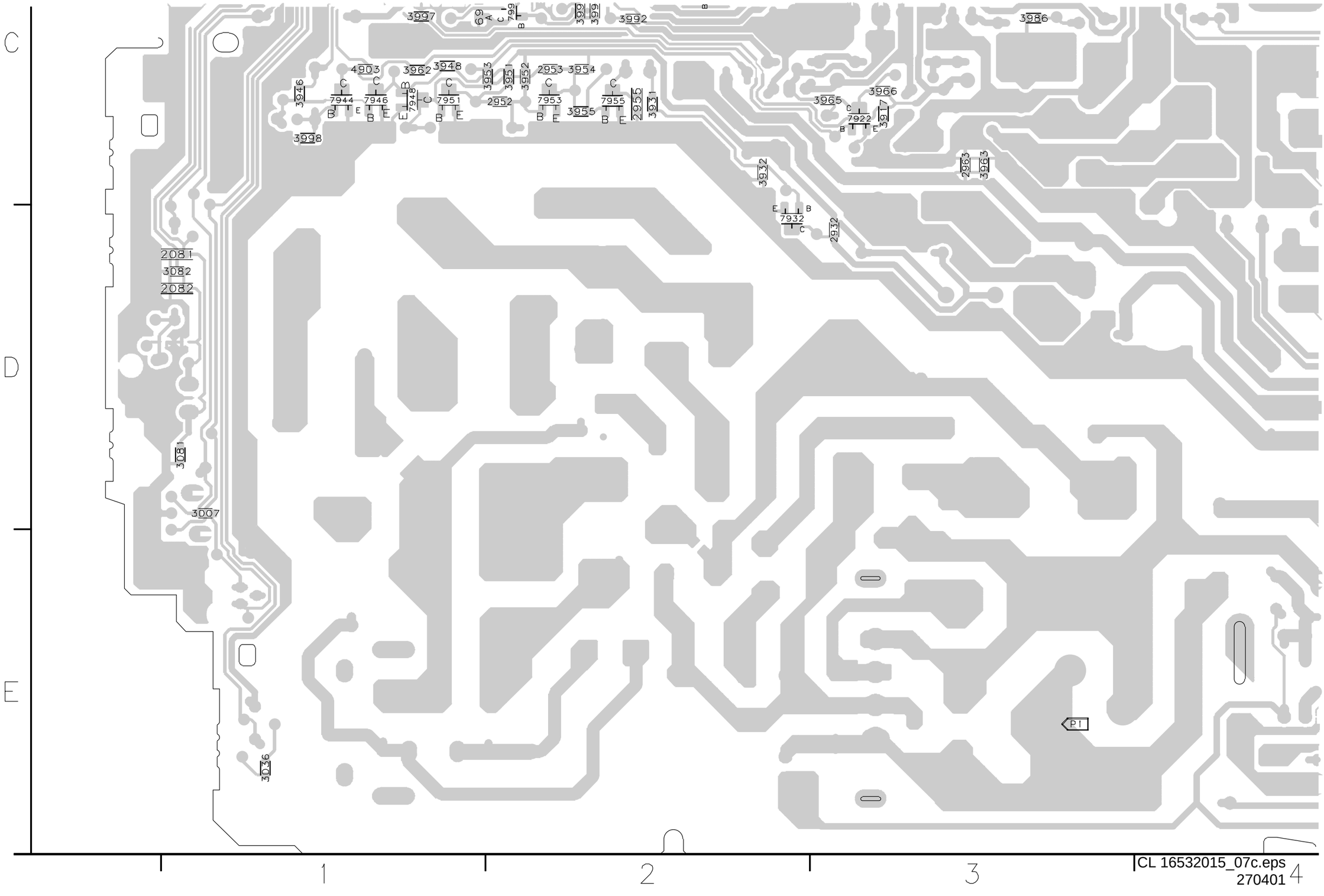
CL 16532015_07a.eps
270401

Layout LSP (Part 2 Bottom View)

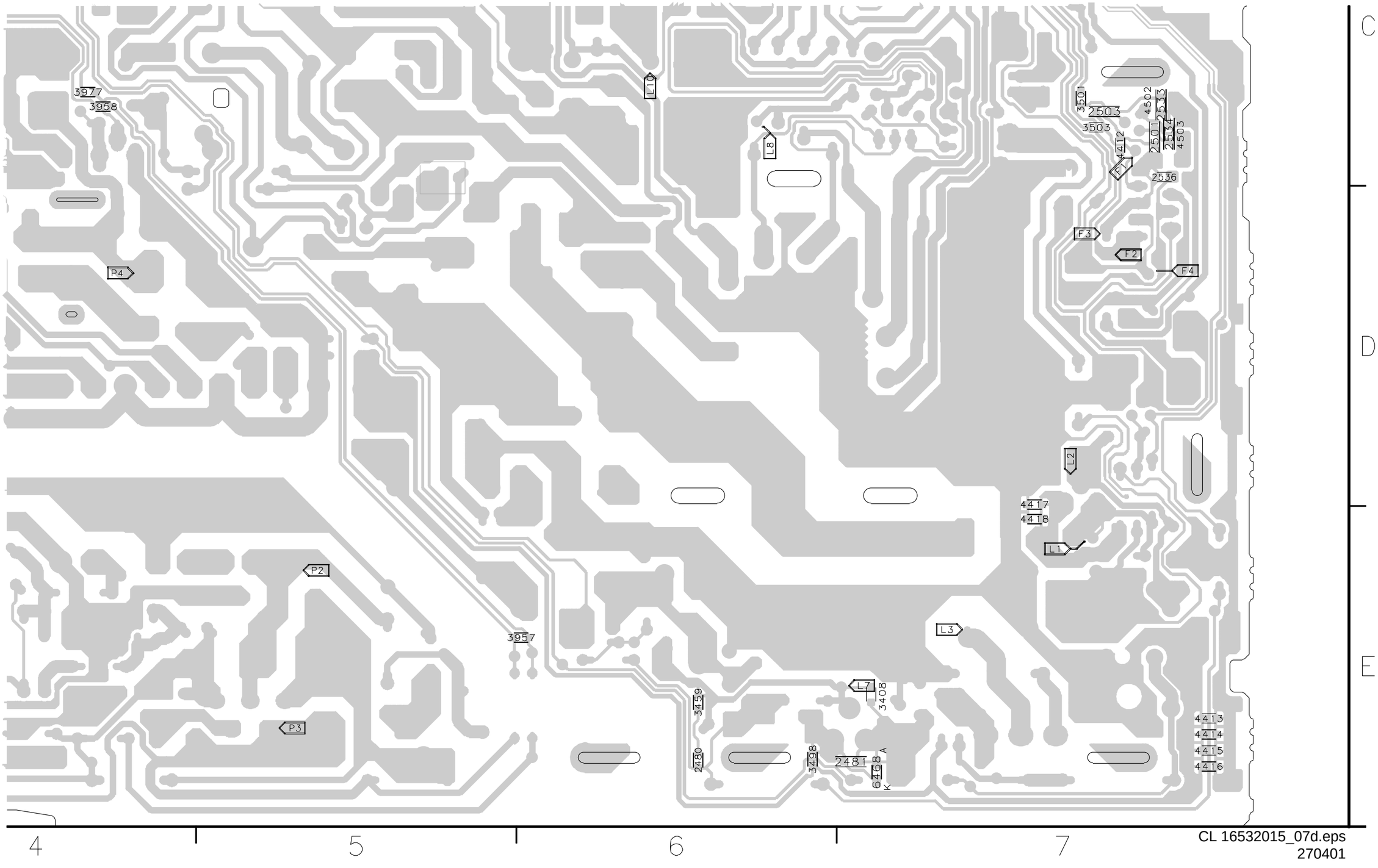


CL 16532015_07b.eps
270401

Layout LSP (Part 3 Bottom View)



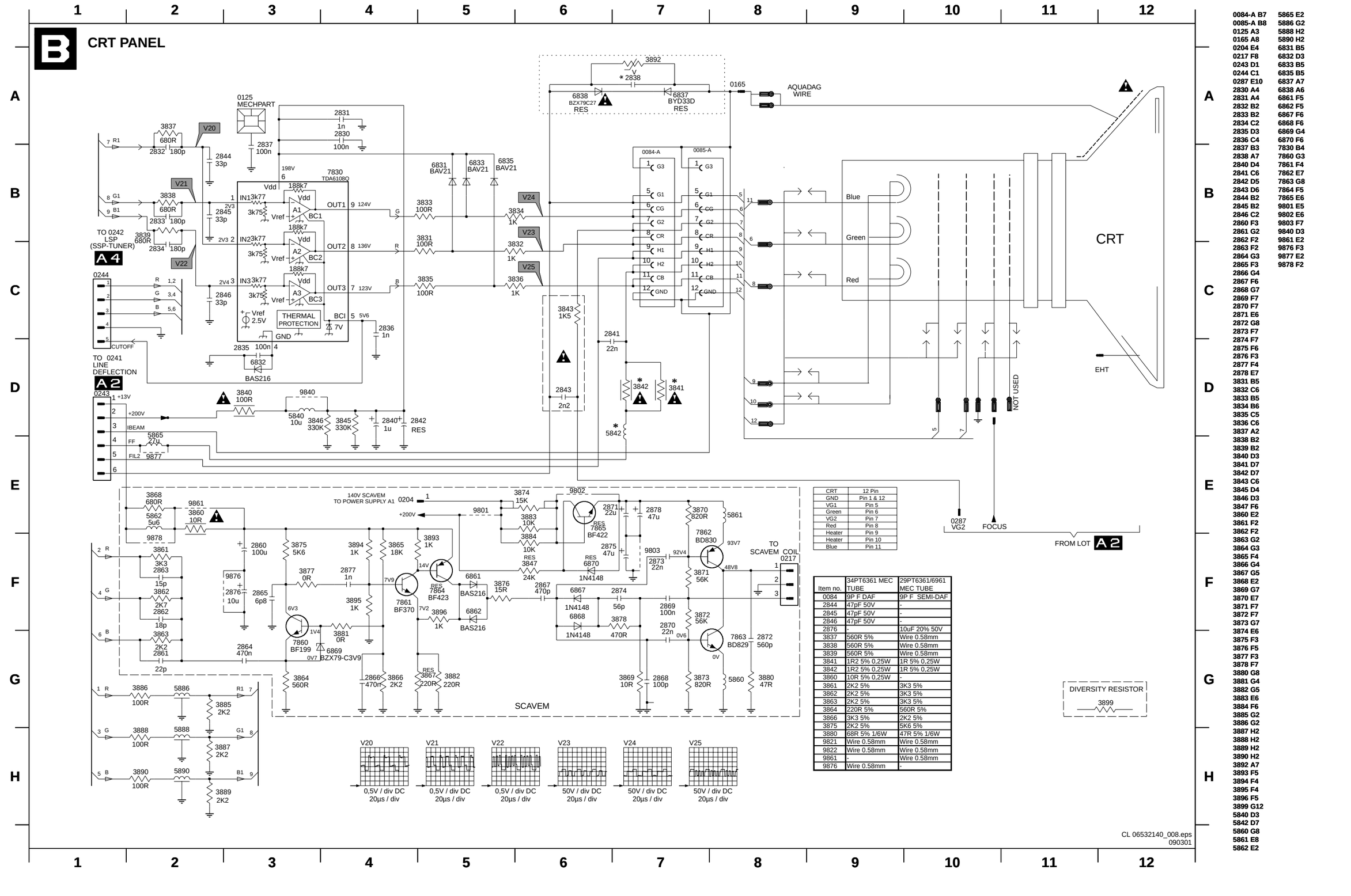
Layout LSP (Part 4 Bottom View)



CL 16532015_07d.eps
270401

CRT Panel

CRT PANEL



CRT	12 Pin
GND	Pin 1 & 12
VG1	Pin 5
Green	Pin 6
VG2	Pin 7
Red	Pin 8
Heater	Pin 9
Heater	Pin 10
Blue	Pin 11

Item no.	34PT6361 MEC TUBE	29PT6361/6961 MEC TUBE
0084	9P F DAF	9P F SEMI-DAF
2844	47pF 50V	-
2845	47pF 50V	-
2846	47pF 50V	-
2876	-	10uF 20% 50V
3837	560R 5%	Wire 0.58mm
3838	560R 5%	Wire 0.58mm
3839	560R 5%	Wire 0.58mm
3841	1R2 5% 0,25W	1R 5% 0,25W
3842	1R2 5% 0,25W	1R 5% 0,25W
3860	10R 5% 0,25W	-
3861	2K2 5%	3K3 5%
3862	2K2 5%	3K3 5%
3863	2K2 5%	3K3 5%
3864	220R 5%	560R 5%
3866	3K3 5%	2K2 5%
3875	2K2 5%	5K6 5%
3880	68R 5% 1/6W	47R 5% 1/6W
9821	Wire 0.58mm	Wire 0.58mm
9822	Wire 0.58mm	Wire 0.58mm
9861	-	Wire 0.58mm
9876	Wire 0.58mm	-

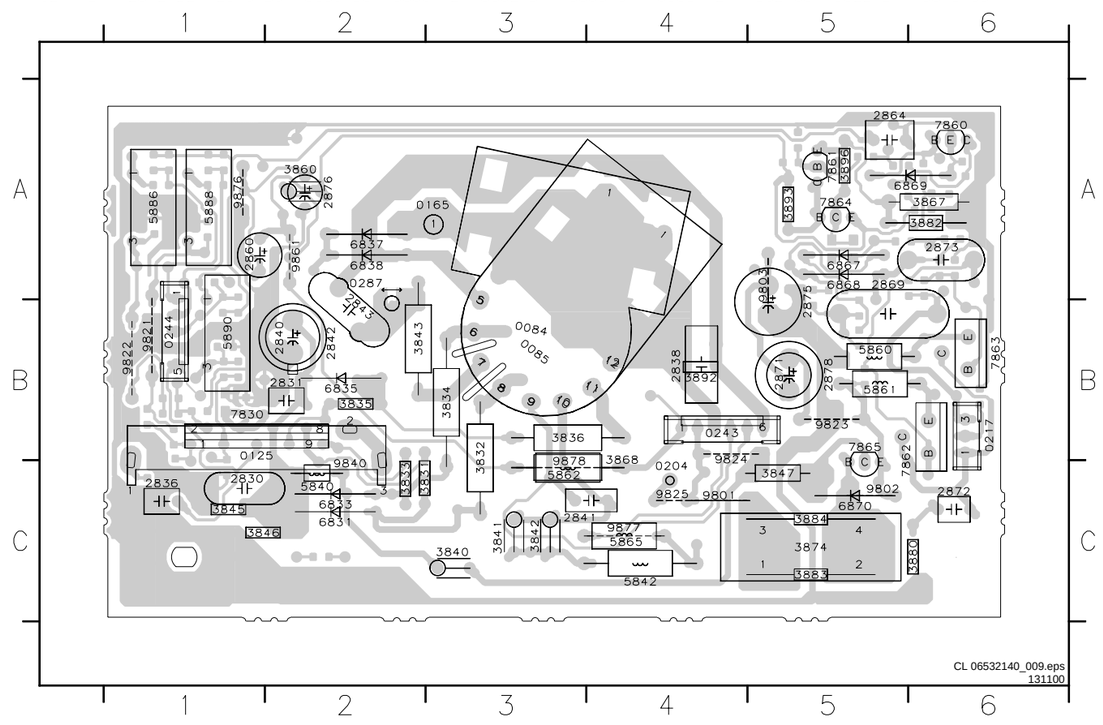
DIVERSITY RESISTOR
3899

CL 06532140_008.eps
090301

0084-A B7
0085-A B8
0125 A3
0165 A8
0204 E4
0217 F8
0243 D1
0244 C1
0287 E10
2830 A4
2831 A4
2832 B2
2833 B2
2834 C2
2835 D3
2836 C4
2837 B3
2838 A7
2840 D4
2841 C6
2842 D5
2843 D6
2844 B2
2845 B2
2846 C2
2860 F3
2861 G2
2862 F2
2863 F2
2864 G3
2865 F3
2866 G4
2867 F6
2868 G7
2869 F7
2870 F7
2871 E6
2872 G8
2873 F7
2874 F7
2875 F6
2876 F3
2877 F4
2878 E7
3831 B5
3832 C6
3833 B5
3834 B6
3835 C5
3836 C6
3837 A2
3838 B2
3839 B2
3840 D3
3841 D7
3842 D7
3843 C6
3845 D4
3846 D3
3847 F6
3860 E2
3861 F2
3862 F2
3863 G2
3864 G3
3865 F4
3866 G4
3867 G5
3868 E2
3869 G7
3870 E7
3871 F7
3872 F7
3873 G7
3874 E6
3875 F3
3876 F5
3877 F3
3878 F7
3880 G8
3881 G4
3882 G5
3883 E6
3884 F6
3885 G2
3886 G2
3887 H2
3888 H2
3889 H2
3890 H2
3892 A7
3893 F5
3894 F4
3895 F4
3896 F5
3899 G12
5840 D3
5842 D7
5860 G8
5861 E8
5862 E2
5865 E2
5886 G2
5888 B5
5890 H2
6831 B5
6832 D3
6833 B5
6835 B5
6837 A7
6838 A6
6861 F5
6862 F5
6867 F6
6868 F6
6869 G4
6870 F6
7830 B4
7860 G3
7861 F4
7862 E7
7863 G8
7864 F5
7865 E6
9801 E5
9802 E6
9803 F7
9840 D3
9861 E2
9876 F3
9877 E2
9878 F2

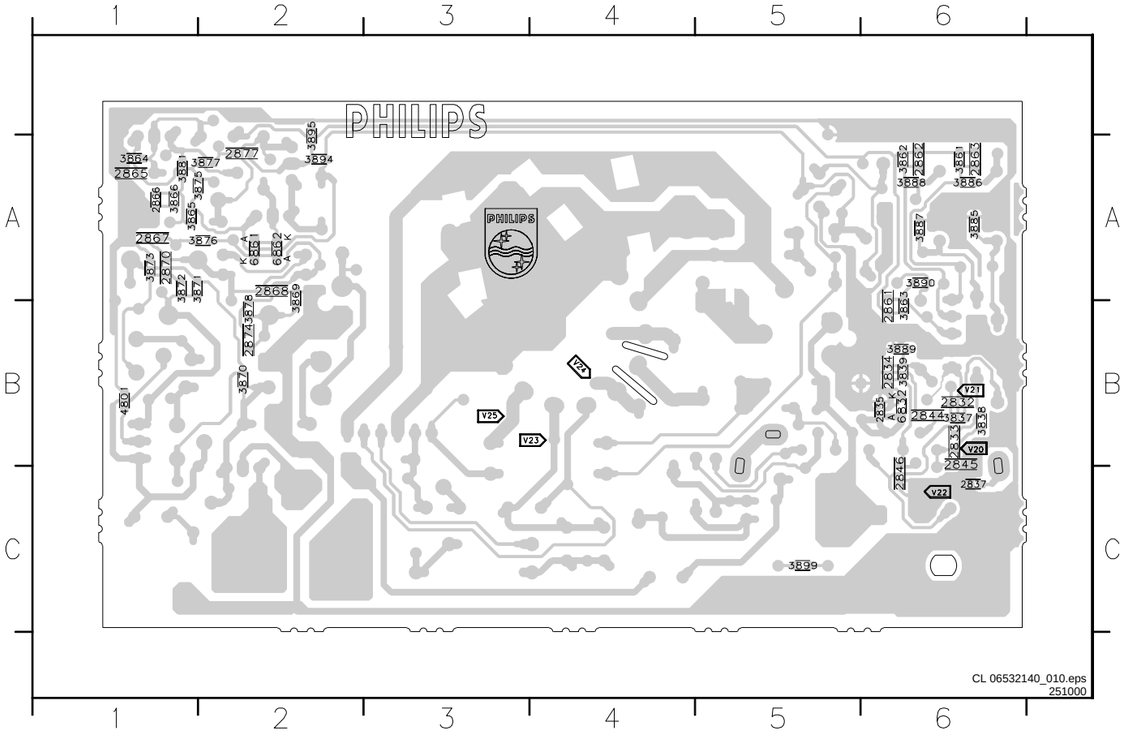
Layout CRT Panel (Top View)

0084 B3 0085 B3 0125 B1 0165 A3 0204 C4 0217 B6 0243 B4 0244 B1
0287 A2 2830 C1 2831 B2 2836 C1 2838 B4 2840 B2 2841 C3 2842 B2
2843 B2 2860 A1 2864 A5 2869 A5 2871 B5 2872 C6 2873 A6 2875 B5
2876 A2 2878 B5 3831 C2 3832 B3 3833 C2 3834 B3 3835 B2 3836 B3
3840 C3 3841 C3 3842 C3 3843 B2 3845 C1 3846 C1 3847 C5 3860 A2
3867 A6 3868 B4 3874 C5 3880 C6 3882 A6 3883 C5 3884 C5 3892 B4
3893 A5 3896 A5 5840 C2 5842 C4 5860 B5 5861 B5 5862 C3 5865 C4
5886 A1 5888 A1 5890 B1 6831 C2 6833 C2 6835 B2 6837 A2 6838 A2
6867 A5 6868 A5 6869 A6 6870 C5 7830 B1 7860 A6 7862 C5 7863 B6
7864 A5 7865 B5 9801 C4 9802 C5 9803 A5 9821 B1 9822 B1 9823 B5
9824 B4 9825 C4 9840 C2 9861 A2 9876 A1 9877 C4 9878 C3



Layout CRT Panel (Bottom View)

2832 B6 2833 B6 2834 B6 2835 B6 2837 C6
2844 B6 2845 B6 2846 C6 2861 B6 2862 A6
2863 A6 2865 A1 2866 A1 2867 A1 2868 A2
2870 A1 2874 B2 2877 A2 3837 B6 3838 B6
3839 B6 3862 A6 3863 B6 3864 A1
3865 A1 3866 A1 3869 A2 3870 B2 3871 A1
3872 A1 3873 A1 3875 A1 3876 A2 3877 A2
3878 B2 3881 A1 3885 A6 3886 A6 3887 A6
3888 A6 3889 B6 3890 A6 3894 A2 3895 A2
3899 C5 4801 B1 6832 B6 6861 A2 6862 A2



Alignments

Note: The Service Default Mode (SDM) and Service Alignment Mode (SAM) are described in chapter 5.

General Alignment conditions

All electrical adjustments should be performed under the following conditions:

- Supply voltage: 220 V (± 10 %); 50 Hz (± 5 %).
- Warm-up time: ≈ 20 minutes.
- The voltages and oscillograms are measured in relation to the tuner earth (with exception of the voltages on the primary side of the power supply). Never use the cooling fins / plates as ground.
- Test probe: Ri > 10 MΩ; Ci < 2.5 pF.
- Use an **isolated** trimmer / screwdriver for the alignments.

Electrical Alignments

Vg2

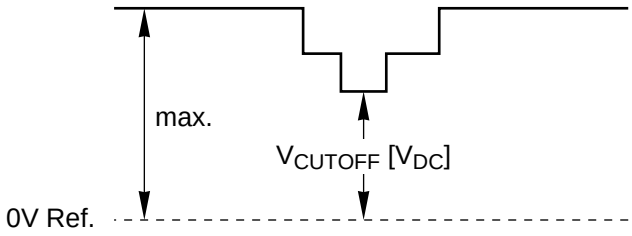
Rough Method

Using a pattern-generator displaying a black pattern.

1. Set CONTRAST to 0.
2. Set BRIGHTNESS to minimum in a black room (OSD still visible). Select any of the AV-sources.
3. Go to the SAM.
4. Set VSD to ON.
5. Adjust the Vg2 potmeter of the LOT until the horizontal line is just visible.
6. Set VSD to OFF.
7. Exit SAM.

Accurate Method

1. Activate the SAM-menu (see A10A manual chapter 5.2.2). Go to the sub-menu 'WHITE TONE' and adjust the value of NORMAL RED, GREEN and BLUE to 40 (or 42 for 29" RF).
2. Go, via the MENU key, temporarely to the normal user menu and set the values of BRIGHTNESS and CONTRAST to minimum (OSD just visible).
3. Return to the SAM-menu via the MENU-key. Disable the black current loop by changing 'AKB' to 'OFF'.
4. Connect the RF-output of the pattern generator to the antenna-input. Test pattern is a 'black' pattern (blank screen on CRT **without** any OSD info).
   Set the time base of the oscilloscope to 0.5 ms with external triggering on the vertical pulse. Measure the black level pulse during the vertical flyback at the RGB cathodes of the CRT.



CL 06532130_014.eps
131000

Figure 1

Adjust V_{cutoff} of the highest of the three guns (with the Vg2 potmeter of the LOT) to:
- 160 V_{DC} for 24", 25" and 28" BLD WS sets,
- 165 V_{DC} for 28"/32" BLSW, 28" RFW and 29" RF sets.

Focus

1. Tune the set to a circle or crosshatch test pattern (use an external video pattern generator).
2. Adjust the Focus potmeter until the vertical lines at 2/3 from east and west, at the height of the centre line, are of minimum width without visible haze.

Alignments And Settings In The SAM.

General

With the software alignments of the Service Alignment Mode the Tuner, White tone, Geometry, Sound and Smart Settings can be aligned. Put the set in the SAM mode. The SAM menu will now appear on the screen (see A10A manual chapter 5).
Menu navigation is done with the 'CURSOR UP, DOWN, LEFT or RIGHT' keys of the RC-handset.

Tuner (Large Signal Panel And Double Window)

IF PLL OFFSET And AFC WINDOW

No adjustments needed for these alignments. The default values for these options are:

- IF PLL OFFSET: 32
- AFC WINDOW: 100 kHz

AGC

Set an external pattern generator (e.g. PM5418) to a grey scale video signal and connect it to the aerial input with RF signal. Set the signal amplitude to at least 1 mV and to a frequency of 475.25 MHz for PAL.

1. Activate the SAM-menu. Go to the sub-menu TUNER, select the sub-menu option AFC WINDOW and adjust the value to 100kHz.
2. Select the AGC sub-menu.
3. Connect a DC multi-meter to pin 1 of the tuner (1225).
4. Adjust the AGC until the voltage at pin 1 of the tuner is within 2.5 V < AGC takeover voltage < 3.8 V.
5. The value can be incremented or decremented by pressing the RIGHT/LEFT cursor keys on the RC.
6. Switch the set to standby.

White Tone

In the WHITE TONE sub menu, the colour temperature values can be changed.
The colour temperature mode (NORMAL, DELTA COOL, DELTA WARM) and the colour (R, G, B) can be selected with the UP/DOWN cursor keys. The mode or value can be changed with the RIGHT/ LEFT cursor keys.
First set the values for the NORMAL colour temperature. Then set the offset values for the DELTA COOL and DELTA WARM modes.
Following default values can be used:

- **NORMAL:**
  RED = 32,
  GREEN = 32
  BLUE = 32.
- **DELTA COOL:**
  RED = 0,
  GREEN = 2
  BLUE = 9.
- **DELTA WARM:**
  RED = 0,
  GREEN = -3
  BLUE = -11.
- CATHODE DR = 7.

Geometry

The geometry alignments menu contains several items to align the set, in order to obtain a correct picture geometry.
In widescreen sets, the 'SUPER WIDE' menu is available for separate alignments of the superwide (panorama) mode.

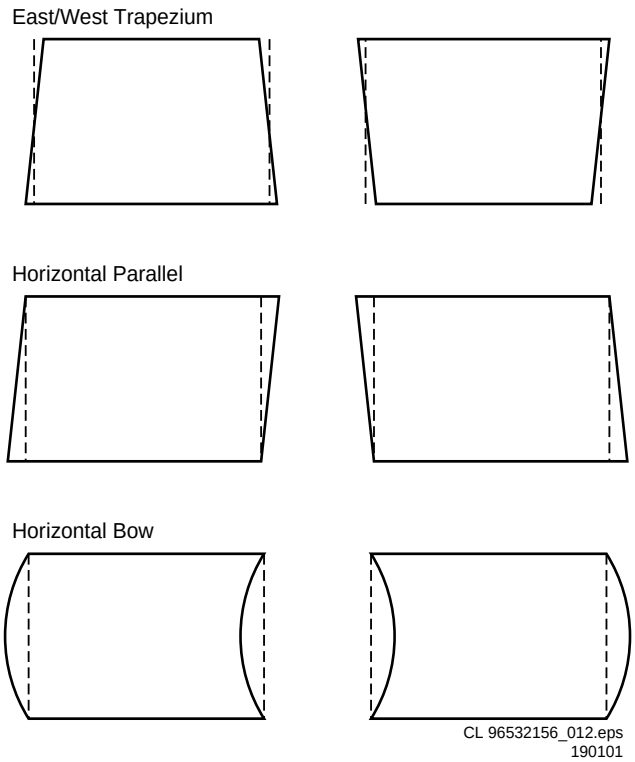


Figure 2

Initial Set-Up

1. Connect an external video pattern generator (PAL-475.25 MHz) to the aerial input of the TV-set with a crosshatch test pattern.
2. Set SMART PICTURE to NATURAL.
3. Activate the SAM-menu and select GEOMETRY.
4. Set VER.SCOR to value:
   – '8' for 28" WS picture tubes,
   – '13' for 25", 28", 29", 32" and 34" 4:3 picture tubes,
   – '23' for 29" SF picture tubes.
5. Set VER.ZOOM to value:
   – 25 (for widescreens; set in SUPER WIDE mode to 35).

Alignment Sequence

- For all sets:
  1. Set SERV.BLK to ON
  2. Adjust VER.SLOPE
  3. Set SERV.BLK to OFF
  4. Adjust VER.AMPL and VER.SHIFT
  5. Adjust EW.WIDTH and HOR.SHIFT
  6. Adjust EW.PARA
  7. Adjust EW.UCORN and EW.LCORN
  8. Adjust EW.TRAP
  9. Adjust HOR.BOW and HOR.PARALLEL

- For widescreen sets only (go to super wide mode):
  1. Set SERV.BLK to ON
  2. Adjust VER.SLOPE
  3. Set SERV.BLK to OFF
  4. Adjust EW.WIDTH and HOR.SHIFT
  5. Adjust EW.PARA
  6. Adjust EW.UCORN and EW.LCORN
  7. Adjust EW.TRAP
  8. Adjust HOR.BOW and HOR.PARALLEL

Explanation of terminology

– *Service blanking (SERV. BLK)*
  Switch the blanking of the lower half of the screen ON/OFF (to be used in combination with the vertical slope alignment).
– *Vertical slope (VER. SLOPE)*
  Align the vertical centre of the picture to the vertical centre of the CRT.This is the first alignment to be performed of the vertical alignments. For an easy alignment set SERV.BLK to ON.
– *Vertical S-correction (VER. SCOR)*
  Align the vertical linearity, meaning that vertical intervals of a grid-pattern must be equal over the entire height.
– *Vertical amplitude (VER. AMPL)*
  Align the picture height so that the complete test pattern is visible. Note that other vertical alignments are not compensated.
– *Vertical shift (VER. SHIFT)*
  Align the vertical centering so that the test pattern is located vertically in the middle. Repeat the 'vertical amplitude' alignment if necessary.
– *Horizontal shift (HOR. SHIFT)*
  Align the horizontal centre of the picture to the horizontal centre of the CRT.
– *Horizontal parallelogram (HOR. PARALLEL)*
  Align straight vertical lines in the top and the bottom; vertical rotation around the centre.
– *East West width (EW. WIDTH)*
  Align the picture width until the complete test pattern is visible.
– *East West Upper Corner (EW. UCORN)*
  Align straight vertical lines in the upper corners of the screen.
– *East West Lower Corner (EW. LCORN)*
  Align straight vertical lines in the lower corners of the screen.
– *East West Trapezium (EW. TRAP)*
  Align straight vertical lines in the middle of the screen.
– *East West parabola (EW. PARA)*
  Align straight vertical lines at the sides of the screen.
– *Horizontal bow (HOR. BOW)*
  Align straight horizontal lines in the top and the bottom; horizontal rotation around the centre.

When a NTSC signal is used on one of the **EXTERNAL** inputs, the following additional alignments can be performed to correct the picture (descriptions above):

1. Horizontal width 60 Hz (H60. WIDTH)
2. Horizontal parallelogram 60Hz (H60. PARA)
3. Horizontal shift 60 Hz (H60. SHIFT)
4. Vertical amplitude 60 Hz (V60. AMPL)

Sound

There are no adjustments needed for SOUND.
Default values:

- NIC-FMAM = 250
- 2CS-FM = 40
- PS-FM = 27
- PS-NIC-BGDK = 58
- PS-NIC-I = 127
- PS-NIC-L = 58
- DEVIATION = OFF

Smart Settings

SMART SETTINGS DEFAULT VALUES		
CRT SIZE ->	**< 32"**	**32"**
RICH BGT	35	42
RICH COL	35	61
RICH CON	55	84
RICH SHP	55	55
RICH HUE	50	50
NATURAL BGT	30	43
NATURAL COL	21	40
NATURAL CON	49	65
NATURAL SHP	40	40
NATURAL HUE	50	50
SOFT BGT	27	42
SOFT COL	22	42
SOFT CON	32	38
SOFT SHP	20	20
SOFT HUE	50	50
MULTI BGT	27	39
MULTI COL	22	38
MULTI CON	32	55
MULTI SHP	20	20
MULTI HUE	50	50

Options

Introduction

Options are used to control the presence/absence of certain features and hardware. The correct option values can be found on a sticker on the picture tube (after removal of the rear cover).

There are two ways to change the option settings:

1. Change a single option
   Select an option with the MENU UP/DOWN keys and change its setting with the MENU LEFT/RIGHT keys.
2. Change multiple options via Option Bytes
   When you change the option bytes directly, it is possible to set all options very fast. An option byte represents a number of different options (see tables below). All options are controlled via 8 option bytes.
   Select the option byte (OB1..OB8). with the MENU UP/DOWN keys and key in the new value.

Note:

Changes in the option byte settings are saved automatically after leaving this sub-menu.
Some changes will only take affect after the set has been switched OFF and ON with the mains switch (cold start).

List Of Options

These option bits can be set ON (= 1) or OFF (= 0). If an option is set ON, it represents a certain (decimal) value.
To calculate the Option Byte value (OB), add the values of the 8 option bits:

An option byte value is calculated in the following way:
Value 'option bit 1' x 1 =
Value 'option bit 2' x 2 =
Value 'option bit 3' x 4 =
Value 'option bit 4' x 8 =
Value 'option bit 5' x 16 =
Value 'option bit 6' x 32 =
Value 'option bit 7' x 64 =
Value 'option bit 8' x 128 =
========== +
Total value 'option byte' =
On the next page you'll find the option lists for the 2 software versions, and an explanation table.

SW: A10ET1-x.y	Bit 8 (128)	Bit 7 (64)	Bit 6 (32)	Bit 5 (16)	Bit 4 (8)	Bit 3 (4)	Bit 2 (2)	Bit 1 (1)
OB1	SBNP	C169	E149	HOSP	SMCK	AV3	WSCR	CBFL
OB2	IPIX	IPMU	NTSC	PITN	ACI	ATS	PLST	VMOD
OB3	SOSD	FAPG	UKPNP	DNRM	VMUT	AAVL	ROTI	SNIC
OB4	TMWIN	NPRG	WSSB	INCF	Res.	Res.	Res.	Res.
OB5	Res.	Res.	Res.	Res.	Res.	Res.	Res.	Res.
OB6	Res.	Res.	Res.	Res.	Res.	Res.	Res.	Res.
OB7	Res.	Res.	Res.	Res.	Res.	Res.	Res.	Res.
OB8	Res.	Res.	Res.	Res.	Res.	Res.	SYSTEM	SYSTEM

SW: A10EP1-x.y	Bit 8 (128)	Bit 7 (64)	Bit 6 (32)	Bit 5 (16)	Bit 4 (8)	Bit 3 (4)	Bit 2 (2)	Bit 1 (1)
OB1	SBNP	C169	E149	HOSP	SMCK	AV3	WSCR	CBFL
OB2	IPIX	IPMU	NTSC	VDBY	EPG	P50	PITN	ACI
OB3	ATS	PLST	VMOD	SOSD	FAPG	UKPNP	DTXT	DNRM
OB4	VMUT	AAVL	ROTI	SNIC	TMWIN	NPRG	WSSB	INCF
OB5	APC	Res.	Res.	Res.	Res.	Res.	Res.	Res.
OB6	Res.	Res.	Res.	Res.	Res.	Res.	Res.	Res.
OB7	Res.	Res.	Res.	Res.	Res.	Res.	Res.	Res.
OB8	Res.	Res.	Res.	Res.	Res.	Res.	SYSTEM	SYSTEM

Option abbreviation	Description
AAVL	Automatic Volume Level
ACI	Automatic Channel Installation
APC	Auto Picture Control
ASBY	Auto switch to STDBY after 2 hrs.
ATS	Automatic Tuning System
AUSB	Auto switch to STDBY after 2 hrs.
AV3	External 3 (Side I/O)
BLMU	Blue Mute
C169	Picture setting for Compress 16:9
CBFL	Comb Filter
CCAP	Closed Captioning
CHLK	Child Lock
CHNA	China
CVI	Ext. source selection for DW/PIP
DNRM	DNR Noise Reduction
DTXT	Dual page Teletext available
E149	Picture setting for Expand 14:9
EPG	Electronic Program Guide
FAPG	Favorite Page
HOSP	Hospitality mode
INCF	Internal Comb Filter
IPIX	Incredible Picture
IPMU	Incredible Picture via menu
ISUR	Incredible Surround
MLNK	M-Link
NPRG	Max. number of programs (80/100)
NTSC	NTSC playback
NVM	Power down circuit to protect NVM
P50	Easy Link
PIPC	PIP Control
PIPS	PIP Surf
PIPT	PIP Tuner

Option abbreviation	Description
PITN	Philips Tuner present
PLST	Program List
ROTI	Rotation
SBNP	Auto Standby with no picture
SMCK	Smart clock
SNIC	Sound IC 3451
SOSD	Smart OSD
SURF	Surf
SYSTEM	EW=West-, EE=East-, EM=Mid-EU
TIME	Timer
TMWIN	Time Window
UKPNP	UK plug and play
VDBY	Virtual Dolby
VMUT	Video Mute
VMOD	Virgin mode
VSLC	Vertical Slicing
W169	Double Window 16:9
W4X3	Double Window 4:3
WSCR	Wide screen
WSSB	Wide screen signalling bit

Spare Parts List

A10E LSP

Various

0084⚠	2422 500 80052	Con 9P
0084⚠	2422 500 80061	Con 9P
0127⚠	3122 358 72141	Fuse holder
0132⚠	4822 276 14024	Mains switch
0137	4822 492 70789	Transistor fixation
0138	4822 492 70789	Transistor fixation
0139	4822 492 70788	IC fixation
0140	4822 492 70789	Transistor fixation
0141	4822 492 70788	IC fixation
0144	4822 492 70789	Transistor fixation
0188	3122 224 04242	Heatsink clamp bracket
0189	3139 124 33361	SSB Bracket
0211⚠	4822 267 10774	Con 2P
0212⚠	4822 265 20723	Con 2P
0212⚠	4822 267 10775	Con 2P
0214	4822 267 10734	Con 5P
0215	2422 025 16382	Con 3P
0215	4822 267 10735	Con 3P
0217	4822 267 10735	Con 3P
0221⚠	4822 267 10966	Con 2P
0222	2422 025 10646	Con 2P
0226	2422 025 16599	Con 80P
0229⚠	2422 025 16601	Con 3P
0232	4822 267 10565	Con 4P
0234	4822 267 10735	Con 3P
0235	2422 025 04851	Con 3P
0238	4822 267 10735	Con 3P
0240	2422 025 12485	Con 11P
0241	2422 025 04854	Con 6P
0242	4822 265 30735	Con 5P
0243	2422 025 04854	Con 6P
0244	4822 265 30735	Con 5P
0246	4822 267 10565	Con 4P
0247	4822 267 10734	Con 5P
0252	2422 025 04851	Con 3P
0253	4822 267 10735	Con 3P
0254	4822 267 10735	Con 3P
1002	4822 276 13775	Switch
1003	4822 276 13775	Switch
1004	4822 276 13775	Switch
1005	4822 276 13775	Switch
1008⚠	4822 130 10859	TLDR5400
1009	9322 127 54667	IR Receiver TSOP1836UH1
1225	4822 210 10848	UV1316/A I U-2
1225	4822 210 10853	TEDE9-004A
1260	2422 025 16745	Con 42P
1269	4822 267 10982	Con 2P
1754	4822 267 31014	Headphone socket
1900⚠	2422 086 10905	Fuse 4A
1931	4822 280 10367	Con 1P
1941⚠	4822 071 51602	Fuse 1.6A
1961⚠	4822 071 51602	Fuse 1.6A

⊣⊢

2009	4822 124 40207	100µF 20% 25V
2012	4822 126 14585	100nF 10% 50V
2020	4822 122 33177	10nF 20% 50V
2021	4822 122 33172	390pF 5% 50V
2023	4822 126 14043	1µF 20% 16V
2024	4822 126 14043	1µF 20% 16V
2081	4822 122 33177	10nF 20% 50V
2082	4822 122 33177	10nF 20% 50V
2201	5322 122 31863	63V 330pF 5%
2202	4822 126 13692	47pF 1% 63V
2203	5322 122 31863	63V 330pF 5%
2206	5322 122 31863	63V 330pF 5%
2208	5322 122 31863	63V 330pF 5%
2211	5322 122 32658	22pF 5% 50V
2214	5322 122 31863	63V 330pF 5%
2215	5322 122 31863	63V 330pF 5%
2217	5322 122 32658	22pF 5% 50V
2218	5322 122 32658	22pF 5% 50V
2222	5322 122 32658	22pF 5% 50V
2225	5322 122 32658	22pF 5% 50V
2227	4822 122 33575	220pF 5% 63V
2231	5322 122 31863	63V 330pF 5%
2233	5322 122 31863	63V 330pF 5%
2236	5322 122 31863	63V 330pF 5%
2238	5322 122 31863	63V 330pF 5%
2242	5322 122 31863	63V 330pF 5%
2244	5322 122 31863	63V 330pF 5%
2246	4822 124 81286	47µF 20% 16V
2247	5322 122 32658	22pF 5% 50V
2248	5322 126 10223	4,7nF 10% 63V
2249	4822 122 33575	220pF 5% 63V
2251	5322 122 31863	63V 330pF 5%
2253	5322 122 31863	63V 330pF 5%
2261	4822 124 40196	220µF 20% 16V
2262	5322 122 31647	1nF 10% 63V
2265	4822 124 41643	100µF 20% 16V
2265	4822 124 81044	470µF 20% 6,3V
2266	2238 580 15645	50V 47nF 10% R
2271	4822 124 21913	1µF 20% 63V
2276	5322 126 10511	1nF 5% 50V
2280	5322 122 32531	100pF 5% 50V
2281	4822 122 33575	220pF 5% 63V
2281	4822 126 13486	15pF 2% 63V
2282	2238 580 15645	50V 47nF 10% R
2282	4822 126 13751	47nF 10% 63V
2284	4822 124 40207	100µF 20% 25V
2404⚠	4822 122 31177	470pF 10% 500V
2406	4822 121 43526	47nF 5% 250V
2409	5322 121 42386	100nF 5% 63V
2411⚠	2020 558 90491	1,8nF 10% 2KV
2411⚠	4822 126 13435	1,2nF 10% 2KV
2411⚠	4822 126 13451	2,2nF 10% 2KV
2411⚠	4822 126 13862	1,5nF 10% 2KV
2411⚠	4822 126 14053	1nF 10% 2KV
2414⚠	4822 121 70618	12nF 5% 1600V
2415⚠	4822 121 70434	11nF 5% 1600V
2415⚠	4822 121 70617	10nF 5% 1600V
2415⚠	4822 121 70618	12nF 5% 1600V
2416⚠	2020 558 90491	1,8nF 10% 2KV
2416⚠	4822 126 11503	820pF 10% 2KV
2416⚠	4822 126 13435	1,2nF 10% 2KV
2416⚠	4822 126 13451	2,2nF 10% 2KV
2416⚠	4822 126 14053	1nF 10% 2KV
2417⚠	4822 122 31177	470pF 10% 500V
2418	2222 479 90029	820nF 5% 250V
2418	4822 126 14097	680nF 5% 250V
2419	4822 121 10518	390nF 5% 250V
2419	4822 121 10781	470nF 5% 250V
2419	4822 126 14097	680nF 5% 250V
2420	4822 124 12265	4,7µF 20% 250V
2420	4822 124 41741	2,2µF 20% 350V
2421⚠	2222 479 90022	0.43µF 250V
2421⚠	4822 121 10781	470nF 5% 250V
2422	4822 126 13751	47nF 10% 63V
2430	4822 121 41857	10nF 5% 250V
2430	4822 121 70676	27P 10% 50V
2434⚠	2020 021 91543	47µF 20% 160V
2437	4822 121 10619	220nF 10% 250V
2437	4822 121 40472	150nF 10% 250V
2437	4822 121 40518	100nF 10% 250V
2437	4822 121 42605	180nF 10% 250V
2439	4822 121 51252	470nF 5% 63V
2442	4822 126 13838	100nF 25V 20%
2443	4822 126 13838	100nF 25V 20%
2445	2020 012 93596	22µF 20% 250V
2447	4822 124 80791	470µF 16V 20%
2449	4822 124 80791	470µF 16V 20%
2450	4822 124 80791	470µF 16V 20%
2461	5322 121 42386	100nF 5% 63V
2462	4822 124 40255	100µF 20% 63V
2463	5322 121 42386	100nF 5% 63V
2468	5322 121 40323	100nF 10% 100V
2469	2222 479 90014	0.22µF 250V
2469	2222 479 90166	68nF 5% 400V
2473⚠	4822 122 31177	470pF 10% 500V
2474⚠	4822 121 43288	18nF 10% 630V
2474⚠	4822 121 70545	7,5nF 5% 1600V
2475	4822 121 43526	47nF 5% 250V
2476⚠	4822 121 70545	7,5nF 5% 1600V
2476⚠	4822 121 70637	8,2nF 5% 1600V
2476⚠	4822 121 70649	9,1nF 5% 1600V
2477	2222 479 90022	0.43µF 250V
2478	5322 121 10472	47µF 25V
2479	4822 124 80341	1µF 20% 160V
2479	4822 124 81043	10µF 20% 100V
2484	4822 121 43526	47nF 5% 250V
2485⚠	4822 126 10206	2,2nF 10% 500V
2487⚠	4822 121 70545	7,5nF 5% 1600V
2487⚠	4822 121 70649	9,1nF 5% 1600V
2488	4822 126 14584	1µF 20% 16V
2488	4822 126 14585	100nF 10% 50V
2488	5322 126 10511	1nF 5% 50V
2489	2222 479 90014	0.22µF 250V
2491	4822 126 14076	220nF 25V
2501	4822 126 10847	63V 1N8 10%
2501	5322 122 32268	63V 470P 5%
2503	4822 126 10847	63V 1N8 10%
2503	5322 122 32268	63V 470P 5%
2505	5322 121 42386	100nF 5% 63V
2506	4822 124 40255	100µF 20% 63V
2521	4822 121 42408	220nF 5% 63V
2522	4822 124 40207	100µF 20% 25V
2522	4822 124 40255	100µF 20% 63V
2522	4822 124 41407	0,47µF 20% 63V
2523	5322 121 42386	100nF 5% 63V
2524	5322 121 42386	100nF 5% 63V
2531	4822 124 40784	3300µF 20% 16V
2532	4822 124 21913	1µF 20% 63V
2536	4822 126 14335	1nF 10% 100V
2701	4822 124 22652	2,2µF 20% 50V
2701	5322 124 41379	2,2µF 20% 50V
2702	4822 124 40255	100µF 20% 63V
2703	4822 124 22652	2,2µF 20% 50V
2703	5322 124 41379	2,2µF 20% 50V
2704	4822 124 12056	1000µF 20% 35V
2705	4822 124 21913	1µF 20% 63V
2706	4822 126 13838	100nF 25V 20%
2707	4822 123 14026	470µF 35V 20%
2708	4822 124 21913	1µF 20% 63V
2709	4822 124 12056	1000µF 20% 35V
2711	4822 126 13482	470nF 80/20% 16V
2711	4822 126 14491	2.2µF 10V
2712	4822 124 40255	100µF 20% 63V
2713	4822 126 13838	100nF 25V 20%
2714	5322 122 32531	100pF 5% 50V
2714	5322 126 10511	1nF 5% 50V
2715	4822 124 40255	100µF 20% 63V
2716	4822 126 13482	470nF 80/20% 16V
2716	4822 126 14491	2.2µF 10V
2717	5322 122 32531	100pF 5% 50V
2717	5322 126 10511	1nF 5% 50V
2718	4822 124 40255	100µF 20% 63V
2719	5322 122 31647	1nF 10% 63V
2720	5322 122 31647	1nF 10% 63V
2722	4822 122 33127	2,2nF 10% 63V
2723	4822 122 33127	2,2nF 10% 63V
2726	4822 124 40255	100µF 20% 63V
2727	5322 122 32654	22nF 10% 63V
2728	5322 122 32654	22nF 10% 63V
2729	5322 122 32654	22nF 10% 63V
2730	5322 122 32654	22nF 10% 63V
2731	4822 126 14043	1µF 20% 16V
2732	4822 126 14043	1µF 20% 16V
2733	4822 124 11947	10µF 20% 16V
2734	5322 126 10223	4,7nF 10% 63V
2830	4822 121 51473	470nF 20% 63V
2831	4822 126 13599	3,3nF 10% 500V
2832	4822 126 13694	68pF 1% 63V
2833	4822 126 13694	68pF 1% 63V
2834	4822 126 13694	68pF 1% 63V
2835	4822 126 13838	100nF 25V 20%
2836	4822 121 43897	1nF 5% 400V
2840	4822 124 11565	10µF 20% 250V
2843⚠	4822 126 13451	2,2nF 10% 2KV
2860	4822 124 40207	100µF 20% 25V
2866	4822 126 13482	470nF 16V
2869	4822 121 40334	100nF 10% 100V
2870	5322 122 32654	22nF 10% 63V
2871	4822 124 40764	22µF 100 V
2872⚠	4822 122 40112	560pF 10% 500V
2873	4822 121 40516	22nF 10% 250V
2877	5322 122 32658	22pF 5% 50V
2878	5322 126 10733	680pF 5% 50V
2902⚠	4822 126 13589	470nF 275V
2905	4822 121 70141	33nF 5% 400V
2908	4822 126 14153	2,2nF 10%B 1KV
2909	4822 126 12263	220pF 10%) 2KV
2909	4822 126 14153	2,2nF 10%B 1KV
2915⚠	4822 124 12415	220µF 20% 400V
2919	2020 021 90654	47µF 20% 50V
2919	4822 124 80604	47µF 20% 50V
2921	5322 122 32311	470pF 10% 100V
2922	4822 126 13862	1,5nF 10% 2KV
2925	5322 122 32311	470pF 10% 100V
2927	3198 014 01520	1N5 10% 50V
2927	4822 121 10779	1,5nF 10% 50V
2929	4822 126 14049	1,5nF 20% 250V
2929⚠	4822 126 14088	2,2nF 20% 250V
2932	5322 122 32654	22nF 10% 63V
2936⚠	3198 019 62210	220P 10% 1KV
2936	4822 126 12263	220pF 10% 2KV
2938⚠	3198 019 64710	470P 10% 1KV
2938	4822 122 50116	470pF 10% 1KV
2939	4822 124 42336	47µF 20% 160V
2940	2020 021 91543	47µF 20% 160V
2941	4822 122 31175	1nF 10% 500V

2942	4822 121 42408	220nF 5% 63V
2943	4822 124 40784	3300µF 20% 16V
2944	4822 124 40433	47µF 20% 25V
2945	4822 124 81144	1000µF 16V
2952	4822 126 14585	100nF 10% 50V
2953	4822 126 13751	47nF 10% 63V
2955	4822 122 33336	8,2nF 10% 50V
2961	4822 122 31175	1nF 10% 500V
2962	2020 021 91501	4700µF 20% 10V
2962	4822 124 11878	4700µF 16V
2962	4822 124 80061	1000µF 20% 25V
2963	2238 780 15654	220nF 10% 16V
2963	4822 126 13561	220nF 10% 16V
2964	4822 122 31175	1nF 10% 500V
2966	4822 124 41584	100µF 20% 10V
2967	4822 124 41584	100µF 20% 10V
2970	5322 122 32331	1nF 10% 100V
2974	4822 124 11583	2200µF 20% 35V
2974	4822 124 12056	1000µF 20% 35V
2977	4822 124 41584	100µF 20% 10V

3002	4822 117 11504	270Ω 1% 0.1W
3003	4822 117 11139	1k5 1% 0,1W
3004	4822 051 20332	3k3 5% 0,1W
3007	4822 117 10361	680Ω 1% 0,1W
3007	4822 117 13577	330Ω 1% 1,25W
3008	4822 051 10102	1k 2% 0,25W
3021	4822 051 20561	560Ω 5% 0,1W
3022	4822 051 20391	390Ω 5% 0,1W
3023	4822 051 20561	560Ω 5% 0,1W
3024	4822 051 10102	1k 2% 0,25W
3025	4822 051 20391	390Ω 5% 0,1W
3026	4822 117 11449	2k2 5% 0,1W
3027	4822 051 20391	390Ω 5% 0,1W
3028	4822 051 20562	5k6 5% 0,1W
3029	4822 051 20472	4k7 5% 0,1W
3030	4822 051 20122	1k2 5% 0,1W
3031	4822 116 83933	15k 1% 0,1W
3032	4822 051 20472	4k7 5% 0,1W
3033	4822 116 83933	15k 1% 0,1W
3034	4822 117 10833	10k 1% 0,1W
3035⚠	4822 052 10229	22Ω 5% 0,33W
3037	4822 051 20182	1k8 5% 0,1W
3038	4822 051 20182	1k8 5% 0,1W
3081	4822 117 10833	10k 1% 0,1W
3082	4822 117 10833	10k 1% 0,1W
3083	4822 116 52276	3k9 5% 0,5W
3201	4822 116 83868	150Ω 5% 0,5W
3202	4822 117 13579	220k 1% 0.1W
3203	4822 116 83868	150Ω 5% 0,5W
3204	4822 117 10834	47k 1% 0,1W
3206	4822 116 83868	150Ω 5% 0,5W
3207	4822 117 13579	220k 1% 0.1W
3208	4822 116 83868	150Ω 5% 0,5W
3209	4822 117 10834	47k 1% 0,1W
3211	4822 116 52201	75Ω 5% 0,5W
3212	4822 116 52175	100Ω 5% 0,5W
3213	4822 116 52264	27k 5% 0,5W
3214	4822 117 11507	6k8 1% 0,1W
3215	4822 116 52175	100Ω 5% 0,5W
3216	4822 116 52201	75Ω 5% 0,5W
3217	4822 116 52175	100Ω 5% 0,5W
3218	4822 116 52201	75Ω 5% 0,5W
3219	4822 116 52175	100Ω 5% 0,5W
3220	4822 051 20154	150k 5% 0,1W
3220	4822 117 11149	82k 1% 0,1W
3220	4822 117 13579	220k 1% 0.1W
3221	4822 116 52201	75Ω 5% 0,5W
3222	4822 116 52175	100Ω 5% 0,5W
3223	4822 116 52199	68Ω 5% 0,5W
3224	4822 051 10102	1k 2% 0,25W
3226	4822 116 52201	75Ω 5% 0,5W
3227	4822 116 52176	10Ω 5% 0,5W
3231	4822 116 83868	150Ω 5% 0,5W
3232	4822 117 13579	220k 1% 0.1W
3233	4822 116 83868	150Ω 5% 0,5W
3234	4822 117 10834	47k 1% 0,1W
3236	4822 116 83868	150Ω 5% 0,5W
3237	4822 117 13579	220k 1% 0.1W
3238	4822 116 83868	150Ω 5% 0,5W
3239	4822 117 10834	47k 1% 0,1W
3241	4822 116 52264	27k 5% 0,5W
3242	4822 117 11507	6k8 1% 0,1W
3243	4822 116 52201	75Ω 5% 0,5W
3244	4822 116 52175	100Ω 5% 0,5W
3245	4822 116 52199	68Ω 5% 0,5W
3246	4822 051 10102	1k 2% 0,25W
3247⚠	5322 117 11726	10Ω 5%
3248	4822 116 52201	75Ω 5% 0,5W
3249	4822 116 52176	10Ω 5% 0,5W
3251	4822 117 13579	220k 1% 0.1W
3252	4822 116 83868	150Ω 5% 0,5W
3253	4822 117 13579	220k 1% 0.1W
3254	4822 116 83868	150Ω 5% 0,5W
3255	4822 051 20479	47Ω 5% 0,1W
3256	4822 051 20479	47Ω 5% 0,1W
3257	4822 051 20479	47Ω 5% 0,1W
3263	4822 051 10102	1k 2% 0,25W
3263	4822 117 11449	2k2 5% 0,1W
3264	4822 117 10833	10k 1% 0,1W
3267	4822 051 20109	10Ω 5% 0,1W
3267	4822 051 20479	47Ω 5% 0,1W
3268	4822 051 20109	10Ω 5% 0,1W
3268	4822 051 20479	47Ω 5% 0,1W
3271	4822 051 20333	33k 5% 0,1W
3271	4822 117 11149	82k 1% 0,1W
3272	4822 117 10833	10k 1% 0,1W
3272	4822 117 11449	2k2 5% 0,1W
3273	4822 051 20223	22k 5% 0,1W
3274	4822 051 20154	150k 5% 0,1W
3276	4822 117 10833	10k 1% 0,1W
3276	4822 117 11449	2k2 5% 0,1W
3277	4822 051 20101	100Ω 5% 0,1W
3277	4822 117 11373	100Ω 1% 0,1W
3278	4822 117 11503	220Ω 1% 0.1W
3280	4822 051 20333	33k 5% 0,1W
3281	4822 051 20472	4k7 5% 0,1W
3282	4822 117 10834	47k 1% 0,1W
3286	4822 051 20182	1k8 5% 0,1W
3401	4822 116 52175	100Ω 5% 0,5W
3402	4822 050 11002	1k 1% 0,4W
3403	4822 116 52269	3k3 5% 0,5W
3405	4822 117 12473	4k7 5% 5W
3405	4822 117 12514	6k8 5% 5W
3405	4822 117 12517	5k6 5% 5W
3409	2322 193 53333	33k 5%
3409	4822 053 10333	33k 5% 1W
3410	4822 116 52191	33Ω 5% 0,5W
3411	4822 053 21334	330k 5% 0,5W
3412	4822 116 52234	100k 5% 0,5W
3412	4822 116 52251	18k 5% 0,5W
3414	4822 116 52234	100k 5% 0,5W
3417	4822 116 52228	680Ω 5% 0,5W
3422	3198 012 11030	10k 5% 1W
3422	4822 053 10103	10k 5% 1W
3430	4822 053 12339	33Ω 5% 3W
3430	4822 053 12689	68Ω 5% 3W
3432	4822 051 20824	820k 5% 0,1W
3434	4822 053 12689	68Ω 5% 3W
3435	4822 116 52264	27k 5% 0,5W
3435	4822 116 83882	39k 5% 0,5W
3435	4822 116 83884	47k 5% 0,5W
3436	4822 116 52291	56k 5% 0,5W
3436	4822 116 52297	68k 5% 0,5W
3436	4822 116 83882	39k 5% 0,5W
3436	4822 116 83884	47k 5% 0,5W
3437	4822 050 23303	33k 1% 0,6W
3437	4822 116 52257	22k 5% 0,5W
3438	4822 051 20474	470k 5% 0,1W
3439	4822 050 11002	1k 1% 0,4W
3440	4822 117 10837	100k 1% 0.1W
3441	4822 116 83961	6k8 5%
3442	4822 051 20105	1M 5% 0,1W
3442	4822 051 20564	560k 5% 0,1W
3442	4822 051 20824	820k 5% 0,1W
3445⚠	4822 052 11108	1Ω 5% 0,5W
3446⚠	4822 052 11108	1Ω 5% 0,5W
3447⚠	4822 052 11108	1Ω 5% 0,5W
3448⚠	4822 052 11108	1Ω 5% 0,5W
3449⚠	4822 052 11108	1Ω 5% 0,5W
3451	4822 116 52234	100k 5% 0,5W
3451	4822 117 10837	100k 1% 0.1W
3456	4822 051 10102	1k 2% 0,25W
3470	4822 116 52264	27k 5% 0,5W
3471	4822 116 83883	470Ω 5% 0,5W
3472	4822 050 23303	33k 1% 0,6W
3472	4822 116 52264	27k 5% 0,5W
3472	4822 116 52304	82k 5% 0,5W
3472	4822 116 83882	39k 5% 0,5W
3473	4822 116 52234	100k 5% 0,5W
3473	4822 116 52304	82k 5% 0,5W
3474	4822 050 24708	4Ω7 1% 0,6W
3475	4822 050 24708	4Ω7 1% 0,6W
3476	4822 116 52283	4k7 5% 0,5W
3477	4822 116 52238	12k 5% 0,5W
3478	4822 050 21003	10k 1% 0,6W
3479	4822 116 52234	100k 5% 0,5W
3480	4822 050 21003	10k 1% 0,6W
3481	4822 050 21003	10k 1% 0,6W
3482	4822 116 52245	150k 5% 0,5W
3483	4822 116 52291	56k 5% 0,5W
3486	4822 050 21003	10k 1% 0,6W
3487	4822 052 11108	1Ω 5% 0,5W
3492	4822 053 21334	330k 5% 0,5W
3493	4822 050 21003	10k 1% 0,6W
3494	4822 116 52264	27k 5% 0,5W
3494	4822 116 83882	39k 5% 0,5W
3495	3198 012 32280	2Ω2 5% 3W
3496	3198 012 32280	2Ω2 5% 3W
3497	3198 012 32280	2Ω2 5% 3W
3498	4822 117 10837	100k 1% 0.1W
3498	4822 117 11149	82k 1% 0,1W
3499	4822 117 13579	220k 1% 0.1W
3501	4822 051 10102	1k 2% 0,25W
3503	4822 051 10102	1k 2% 0,25W
3504	4822 050 22202	2k2 1% 0,6W
3504	4822 116 52256	2k2 5% 0,5W
3511	4822 116 52283	4k7 5% 0,5W
3512	4822 117 10833	10k 1% 0,1W
3513	4822 117 10833	10k 1% 0,1W
3521⚠	4822 052 10158	1Ω5 5% 0,33W
3522	4822 050 21003	10k 1% 0,6W
3522	4822 116 83866	1M 5% 0,5W
3523	4822 116 52175	100Ω 5% 0,5W
3524	4822 116 52175	100Ω 5% 0,5W
3525	4822 050 24708	4Ω7 1% 0,6W
3525	4822 116 81154	2Ω2 5% 0,5W
3525	5322 116 53564	3Ω3 5% 0.5W
3526	4822 050 24708	4Ω7 1% 0,6W
3526	5322 116 53564	3Ω3 5% 0.5W
3527	4822 116 81039	1Ω8 5% 0,5W
3527	5322 116 53564	3Ω3 5% 0.5W
3528	4822 050 22202	2k2 1% 0,6W
3528	4822 116 52256	2k2 5% 0,5W
3531	4822 051 20688	6Ω8 5% 0,1W
3701	4822 051 20472	4k7 5% 0,1W
3701	4822 051 20562	5k6 5% 0,1W
3702	4822 051 20472	4k7 5% 0,1W
3702	4822 051 20562	5k6 5% 0,1W
3703	4822 117 11449	2k2 5% 0,1W
3704	4822 116 52291	56k 5% 0,5W
3705	4822 051 20182	1k8 5% 0,1W
3705	4822 051 20471	470Ω 5% 0,1W
3706	4822 117 10833	10k 1% 0,1W
3707	4822 117 10833	10k 1% 0,1W
3708	4822 117 10837	100k 1% 0.1W
3709	4822 117 11503	220Ω 1% 0.1W
3710	4822 051 20392	3k9 5% 0,1W
3710	4822 117 10833	10k 1% 0,1W
3711	4822 051 20392	3k9 5% 0,1W
3711	4822 117 10833	10k 1% 0,1W
3712	4822 051 20822	8k2 5% 0,1W
3713	4822 051 20223	22k 5% 0,1W
3713	4822 117 11139	1k5 1% 0,1W
3715	4822 051 20332	3k3 5% 0,1W
3716	4822 051 20822	8k2 5% 0,1W
3717	4822 117 11139	1k5 1% 0,1W
3717	4822 117 12955	2k7 1% 0,1W
3719	4822 117 12955	2k7 1% 0,1W
3720	4822 051 10102	1k 2% 0,25W
3720	4822 051 20332	3k3 5% 0,1W
3721	4822 117 10837	100k 1% 0.1W
3722	4822 117 12955	2k7 1% 0,1W
3723	4822 051 20332	3k3 5% 0,1W
3724	4822 051 20472	4k7 5% 0,1W
3724	4822 051 20562	5k6 5% 0,1W
3725	4822 051 20472	4k7 5% 0,1W
3725	4822 051 20562	5k6 5% 0,1W
3726	4822 051 20109	10Ω 5% 0,1W
3727	4822 116 52176	10Ω 5% 0,5W
3728	4822 051 20109	10Ω 5% 0,1W
3730	4822 051 20273	27k 5% 0,1W
3731	4822 051 20273	27k 5% 0,1W
3732	4822 116 52234	100k 5% 0,5W
3733	4822 051 20561	560Ω 5% 0,1W
3734	4822 051 20478	4Ω7 5% 0,1W
3735	4822 051 20478	4Ω7 5% 0,1W
3736⚠	4822 052 10108	1Ω 5% 0,33W
3737⚠	4822 052 10108	1Ω 5% 0,33W
3831	4822 116 52175	100Ω 5% 0,5W
3832	3198 013 01020	1k PM2 1/2W
3833	4822 116 52175	100Ω 5% 0,5W
3834	3198 013 01020	1k PM2 1/2W
3835	4822 116 52175	100Ω 5% 0,5W
3836	3198 013 01020	1k PM2 1/2W
3837	4822 051 20561	560Ω 5% 0,1W
3837	4822 117 10361	680Ω 1% 0,1W
3838	4822 051 20561	560Ω 5% 0,1W
3838	4822 117 10361	680Ω 1% 0,1W
3839	4822 051 20561	560Ω 5% 0,1W
3839	4822 117 10361	680Ω 1% 0,1W
3840⚠	4822 052 10101	100Ω 5% 0,33W
3841⚠	4822 052 10108	1Ω 5% 0,33W
3842⚠	4822 052 10108	1Ω 5% 0,33W
3843	3198 013 01520	1k5 PM2 1/2W
3845	4822 116 52272	330k 5% 0,5W
3860⚠	4822 052 10109	10Ω 5% 0,33W
3864	4822 117 11503	220Ω 1% 0.1W
3865	4822 117 10833	10k 1% 0,1W

3866	4822 117 11139	1k5 1% 0,1W
3867	4822 116 52176	10Ω 5% 0,5W
3869	4822 051 20008	0Ω jumper
3870	4822 116 52231	820Ω 5% 0,5W
3871	4822 116 52291	56k 5% 0,5W
3872	4822 117 11148	56k 1% 0,1W
3873	4822 117 11454	820Ω 1% 0,1W
3874	4822 117 13424	8k2 5% 5W
3875	4822 051 20122	1k2 5% 0,1W
3876	4822 051 20159	15Ω 5% 0,1W
3877	4822 051 20008	0Ω jumper
3878	4822 051 20471	470Ω 5% 0,1W
3880	4822 116 83872	220Ω 5% 0,5W
3881	4822 051 20008	0Ω jumper
3885	4822 117 11449	2k2 5% 0,1W
3886	2322 194 63338	3Ω3 5%
3887	2322 194 63338	3Ω3 5%
3888	4822 051 20159	15Ω 5% 0,1W
3891	4822 117 11454	820Ω 1% 0,1W
3892	4822 117 13016	1M 50V
3901	4822 053 21475	4M7 5% 0,5W
3902	4822 053 21225	2M2 5% 0,5W
3905	3198 013 04710	470Ω PM2 1/2W
3907	4822 117 12074	7W 1Ω5 10%
3911⚠	4822 116 10075	9Ω 220V
3911⚠	4822 116 10105	9Ω 220V PTC
3913⚠	2322 193 53154	150k 5%
3915	4822 053 20335	3M3 5% 0,25W
3917	4822 051 20561	560Ω 5% 0,1W
3923	2120 106 90555	0Ω33 5% 1W
3923	4822 117 11342	0Ω33 5% 2W
3924	2120 106 90554	0Ω22 5% 1W
3924	4822 117 11744	0Ω22 5% 1W
3925	4822 116 52228	680Ω 5% 0,5W
3926	4822 116 52269	3k3 5% 0,5W
3928	4822 116 52263	2k7 5% 0,5W
3929	5322 116 53564	3Ω3 5% 0.5W
3931	4822 117 10833	10k 1% 0,1W
3932	4822 117 10833	10k 1% 0,1W
3942	2120 108 92616	1k2 5% 0,1W
3942	4822 051 20122	1k2 5% 0,1W
3943	4822 116 83881	390Ω 5% 0,5W
3944	4822 116 52257	22k 5% 0,5W
3946	4822 051 20223	22k 5% 0,1W
3947	4822 051 10102	1k 2% 0,25W
3947	5322 117 12487	1k 1% 0,125W
3948	4822 051 20683	68k 5% 0,1W
3951	4822 051 20562	5k6 5% 0,1W
3952	4822 117 11149	82k 1% 0,1W
3953	4822 117 10833	10k 1% 0,1W
3954	4822 051 20562	5k6 5% 0,1W
3955	4822 117 10833	10k 1% 0,1W
3957	4822 051 20182	1k8 5% 0,1W
3958	4822 051 10102	1k 2% 0,25W
3962	4822 051 20562	5k6 5% 0,1W
3963	4822 051 20109	10Ω 5% 0,1W
3965	4822 051 20229	22Ω 5% 0,1W
3966	4822 117 10361	680Ω 1% 0,1W
3967	4822 116 52219	330Ω 5% 0,5W
3968	4822 117 12955	2k7 1% 0,1W
3969	4822 050 21003	10k 1% 0,6W
3970	3198 012 32290	22Ω 5% 3W
3970	4822 053 12229	22Ω 5% 3W
3977	4822 117 12955	2k7 1% 0,1W
3978	4822 117 10833	10k 1% 0,1W
3979	4822 116 83933	15k 1% 0,1W
3986	4822 051 20333	33k 5% 0,1W
3987	4822 117 10833	10k 1% 0,1W
3989	4822 051 20334	330k 5% 0,1W
3991	4822 116 52257	22k 5% 0,5W
3992	4822 117 10833	10k 1% 0,1W
3993	4822 117 10833	10k 1% 0,1W
3994	4822 116 83933	15k 1% 0,1W
3996⚠	4822 053 21155	1M5 5% 0,5W
3997	4822 117 11373	100Ω 1%
4xxx	4822 051 10008	0Ω 5% 0,25W
4xxx	4822 051 20008	0Ω 5% 0,25W

5001	4822 051 20008	0R00 jumper
5001	4822 157 11828	22U 20%
5002	4822 051 20008	0R00 Jumper
5002	4822 157 11828	22U 20%
5012	4822 157 11771	0,09µH 10%
5201	4822 157 11235	22µH 5%
5202	4822 157 11235	22µH 5%
5261	4822 157 11778	5U6 10%
5262	4822 157 50943	12µH
5406	3128 138 33811	Line drive trafo
5406	4822 142 40351	Line drive trafo
5411	4822 157 11411	Bead
5417⚠	3128 138 53221	Lin. cor. coil
5417⚠	4822 157 11673	Lin. cor. coil
5417⚠	4822 157 11854	Lin. cor. coil
5417⚠	4822 157 71914	Lin. cor. coil
5430	4822 157 10359	33U 5%
5431⚠	2422 531 98025	LOT 1362.0004
5431⚠	2422 531 98026	LOT 1362.0003
5431⚠	3128 138 21001	LOT type1
5431⚠	4822 140 10651	LOT 1342.0005
5445	4822 157 50964	100µH
5446	4822 157 11672	12µH 5%
5448	4822 157 11672	12µH 5%
5474⚠	3128 138 31012	Choke coil
5474⚠	4822 157 62828	Choke coil
5478	2422 531 02419	Bridge coil
5521	4822 157 11771	0,09µH 10%
5523	4822 157 11771	0,09µH 10%
5524	4822 157 11771	0,09µH 10%
5842	4822 157 71514	18U 5%
5842	4822 157 71515	68U 5%
5862	4822 157 51216	5,6µH
5902⚠	4822 157 11122	Line filter 15mH
5902⚠	4822 157 11523	Line filter 5mH
5903⚠	4822 157 10999	Line filter
5912⚠	2422 531 02375	Transformer SMT
5920	4822 526 10704	Bead
5924	4822 526 10704	Bead
5936	4822 526 10704	Bead
5939	4822 157 71401	27µH
5941	4822 526 10704	Bead
5961	4822 526 10704	Bead
5971	4822 526 10704	Bead

6005	4822 130 31983	BAT85
6010	4822 130 83757	BAS216
6012	4822 130 31983	BAT85
6013	4822 130 31983	BAT85
6264	4822 130 83757	BAS216
6265	4822 130 83757	BAS216
6266	4822 130 11397	BAS316
6271	4822 130 11397	BAS316
6273	4822 130 11397	BAS316
6274	4822 130 11397	BAS316
6275	4822 130 11397	BAS316
6276	4822 130 11397	BAS316
6278	4822 130 11397	BAS316
6279	3198 020 55680	BZX384-C5V6
6279	4822 130 10185	UDZS5.6B
6280	4822 130 10852	BZX284-C6V8
6280	9322 107 42685	UDZ12B
6280	9340 548 61115	PDZ12B
6281	4822 130 10852	BZX284-C6V8
6281	9322 107 42685	UDZ12B
6281	9340 548 61115	PDZ12B
6282	4822 130 10852	BZX284-C6V8
6282	9322 107 42685	UDZ12B
6282	9340 548 61115	PDZ12B
6283	4822 130 10852	BZX284-C6V8
6283	9322 107 42685	UDZ12B
6283	9340 548 61115	PDZ12B
6284	4822 130 10852	BZX284-C6V8
6284	9322 107 42685	UDZ12B
6284	9340 548 61115	PDZ12B
6285	4822 130 10852	BZX284-C6V8
6285	9322 107 42685	UDZ12B
6285	9340 548 61115	PDZ12B
6286	4822 130 10852	BZX284-C6V8
6286	9322 107 42685	UDZ12B
6286	9340 548 61115	PDZ12B
6287	4822 130 10852	BZX284-C6V8
6287	9322 107 42685	UDZ12B
6287	9340 548 61115	PDZ12B
6288	4822 130 10852	BZX284-C6V8
6288	9322 107 42685	UDZ12B
6288	9340 548 61115	PDZ12B
6289	4822 130 10852	BZX284-C6V8
6289	9322 107 42685	UDZ12B
6289	9340 548 61115	PDZ12B
6413	4822 130 30621	1N4148
6414⚠	4822 130 83825	BY328/20
6414	9340 559 50112	BY228/24
6419	4822 130 42488	BYD33D
6420	4822 130 42488	BYD33D
6439	4822 130 34379	BZX79-B27
6440	4822 130 30621	1N4148
6442	4822 130 30621	1N4148
6443	4822 130 30621	1N4148
6445	4822 130 42606	BYD33J
6447	4822 130 41602	BYW95C
6448	4822 130 41602	BYW95C
6461	4822 130 42488	BYD33D
6467	4822 130 11148	UDZ4.7B
6468	3198 020 51090	BZX384-C10
6468	9322 107 41685	UDZ10B
6472	4822 130 61219	BZX79-B10
6474⚠	9340 559 53112	BYW95C-24
6475	9340 559 53112	BYW95C-24
6480	4822 130 30621	1N4148
6481	3198 010 53390	BZX79-B33
6482	4822 130 42606	BYD33J
6483	4822 130 42606	BYD33J
6484	4822 130 42606	BYD33J
6485	4822 130 20299	P0102DA
6486	4822 130 34379	BZX79-B27
6487	4822 130 34142	BZX79-B33
6505	4822 130 42488	BYD33D
6511	4822 130 30621	1N4148
6512	4822 130 34173	BZX79-B5V6
6522	4822 130 42488	BYD33D
6523	4822 130 11397	BAS316
6524	4822 130 11397	BAS316
6701	4822 130 30621	1N4148
6831	4822 130 30842	BAV21
6832	4822 130 83757	BAS216
6833	4822 130 30842	BAV21
6835	4822 130 30842	BAV21
6837	4822 130 82969	BZD23-C24
6838	4822 130 82969	BZD23-C24
6863	4822 130 30621	1N4148
6904	4822 130 34142	BZX79-B33
6905	4822 130 34142	BZX79-B33
6911	4822 130 31083	BYW55
6912	4822 130 31083	BYW55
6913	4822 130 31083	BYW55
6914	4822 130 31083	BYW55
6921	4822 130 34142	BZX79-B33
6926	4822 130 42488	BYD33D
6928	4822 130 42488	BYD33D
6929	4822 130 42488	BYD33D
6932	4822 130 30621	1N4148
6938	4822 130 10218	BY229X-800
6941	4822 130 32715	SB340
6941	4822 130 83865	SB360
6942	4822 130 42488	BYD33D
6953	4822 130 34382	BZX79-B8V2
6955	4822 130 30621	1N4148
6961	4822 130 32715	SB340
6966	3198 010 53980	BZX79-B3V9
6966	4822 130 31981	BZX79-B3V9
6971	4822 130 10256	EGP20DL-5300
6973	4822 130 30621	1N4148
6977	9322 127 99685	UDZS5.1B
6986	4822 130 34281	BZX79-B15
6991	4822 130 34382	BZX79-B8V2

7012	4822 130 40959	BC547B
7013	4822 130 44568	BC557B
7014	4822 130 40981	BC337-25
7015	4822 130 40981	BC337-25
7224	4822 130 60511	BC847B
7224	5322 130 60159	BC846B
7226	4822 130 60511	BC847B
7226	5322 130 60159	BC846B
7273	4822 130 60373	BC856B
7276	4822 130 60511	BC847B
7276	5322 130 60159	BC846B
7277	4822 130 60373	BC856B
7280	4822 130 60511	BC847B
7280	5322 130 60159	BC846B
7408	4822 130 41646	BF423
7410⚠	9340 550 89127	BU4508AX
7440	4822 130 44568	BC557B
7464	4822 130 44568	BC557B
7467	4822 130 60373	BC856B
7470	4822 130 11336	STP16NE06FP
7478	4822 130 40959	BC547B
7480	4822 130 40959	BC547B
7481	4822 130 42159	BF819
7482	9340 547 00215	PDTC143ZT
7501	4822 209 61117	TDA8172
7513	4822 130 60511	BC847B
7513	5322 130 60159	BC846B
7701	4822 130 60511	BC847B
7701	5322 130 60159	BC846B
7702	9322 148 81667	AN5277
7703	4822 209 33165	TDA1308T/N1
7704	4822 130 60511	BC847B
7704	5322 130 60159	BC846B
7710	4822 130 60511	BC847B
7710	5322 130 60159	BC846B
7711	4822 130 60373	BC856B
7712	4822 130 60373	BC856B
7830	9352 576 50112	TDA6107Q/N2

7860	4822 130 44154	BF199
7861	4822 130 42589	BF370
7862	4822 130 41617	BD830
7863	4822 130 41616	BD829
7864	4822 130 44568	BC557B
7865	9340 350 20116	BFQ151
7921⚠	9322 140 38682	STR-F6454
7922	4822 130 60373	BC856B
7929⚠	8238 274 02070	TCET1103G
7932	4822 130 60511	BC847B
7932	5322 130 60159	BC846B
7942	4822 209 80591	LM317T
7944	4822 130 60511	BC847B
7944	5322 130 60159	BC846B
7946	4822 130 60511	BC847B
7946	5322 130 60159	BC846B
7948	4822 130 60511	BC847B
7948	5322 130 60159	BC846B
7951	4822 130 60511	BC847B
7951	5322 130 60159	BC846B
7953	4822 130 60511	BC847B
7953	5322 130 60159	BC846B
7955	4822 130 60511	BC847B
7955	5322 130 60159	BC846B
7965	4822 130 40855	BC337
7967	9322 137 01682	SI-3050C
7971	4822 209 16707	SE140N
7987	4822 130 60373	BC856B
7990	4822 130 60373	BC856B
7991	4822 130 60511	BC847B
7991	5322 130 60159	BC846B
7992	4822 130 60511	BC847B
7992	5322 130 60159	BC846B
9015	4822 157 62552	2,2UH
9016	4822 157 62552	2,2UH