

Service Solutions Group
Technical Publications Dept.
P.O. Box 555
401 East Old Andrew Johnson Hwy.
Jefferson City, TN 37760

Pg. SCHEMATIC DIAGRAMS AND PC BOARDS

- | | |
|----------------------------------------------------|-----------------------------------------------------|
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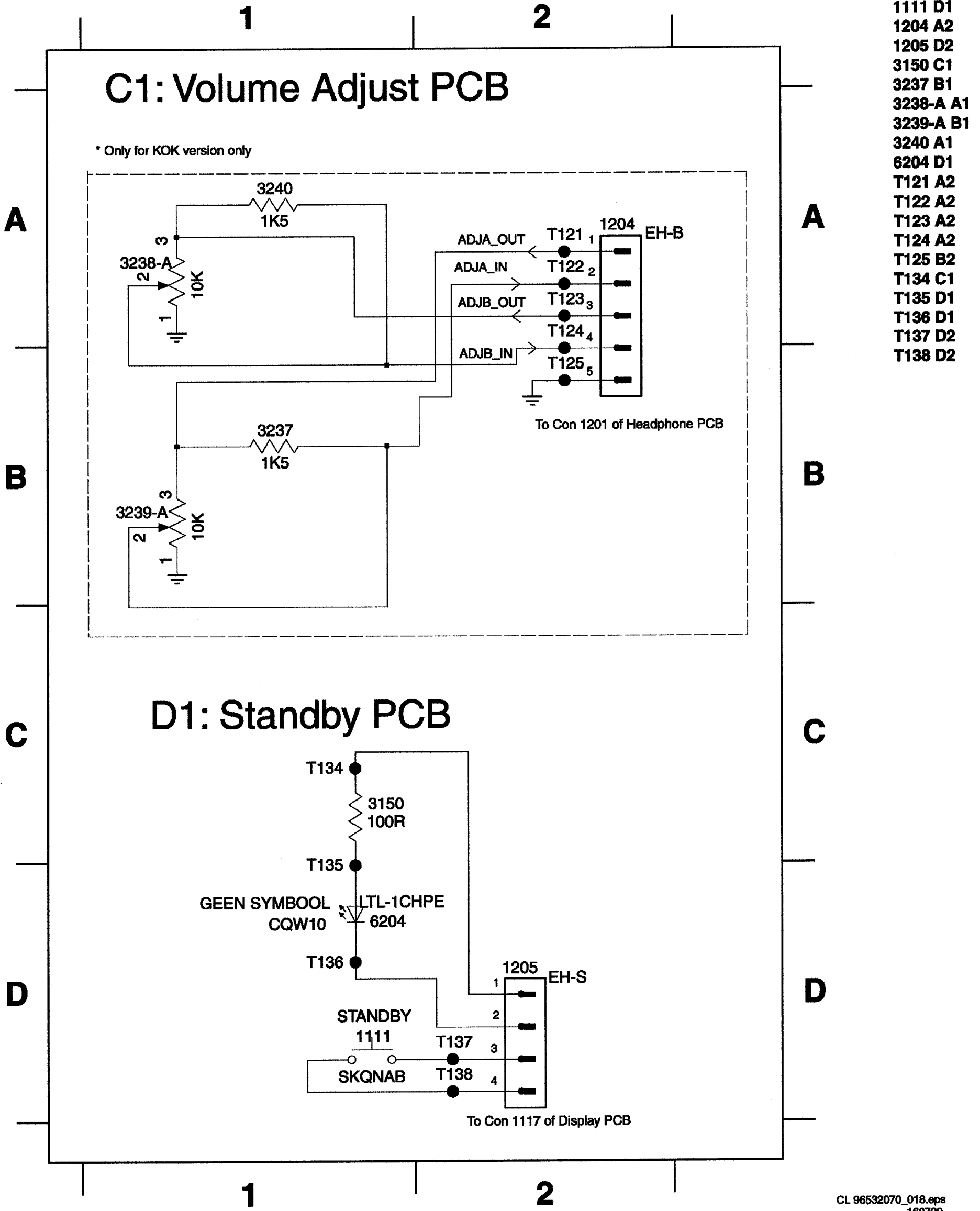
REFER TO SAFETY GUIDELINES

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CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

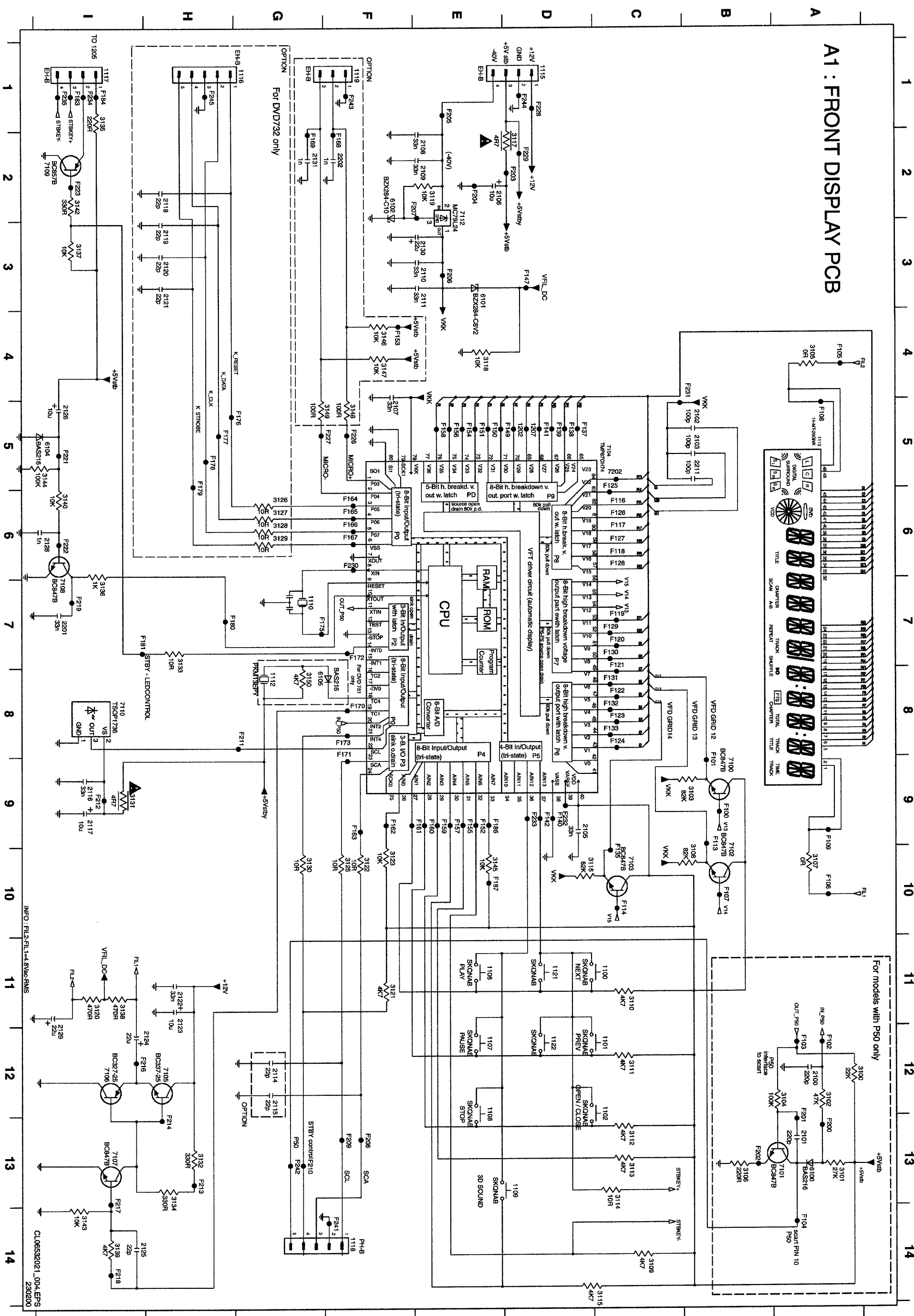
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Volume / Standby PWB



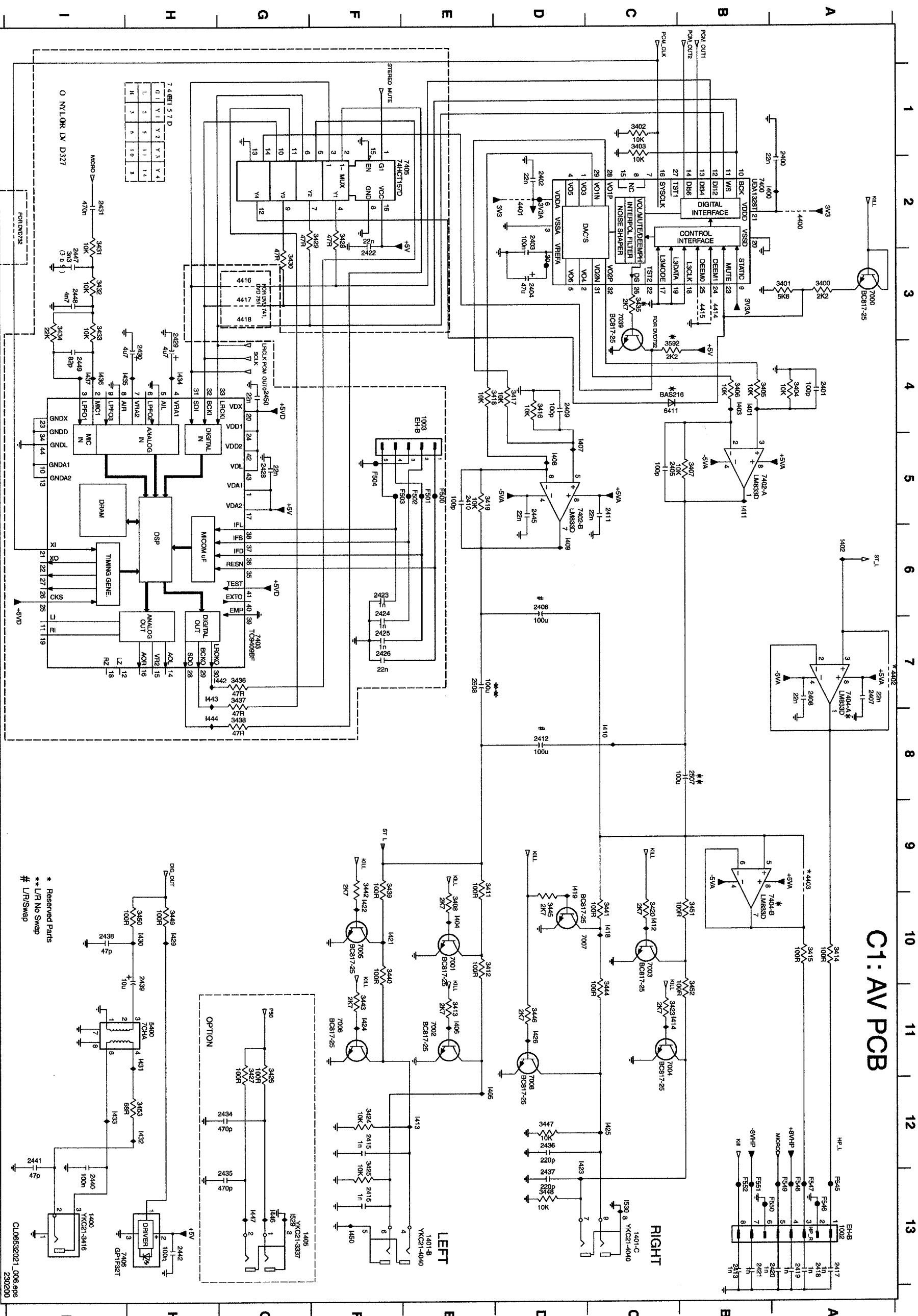
Display

A1 : FRONT DISPLAY PCB

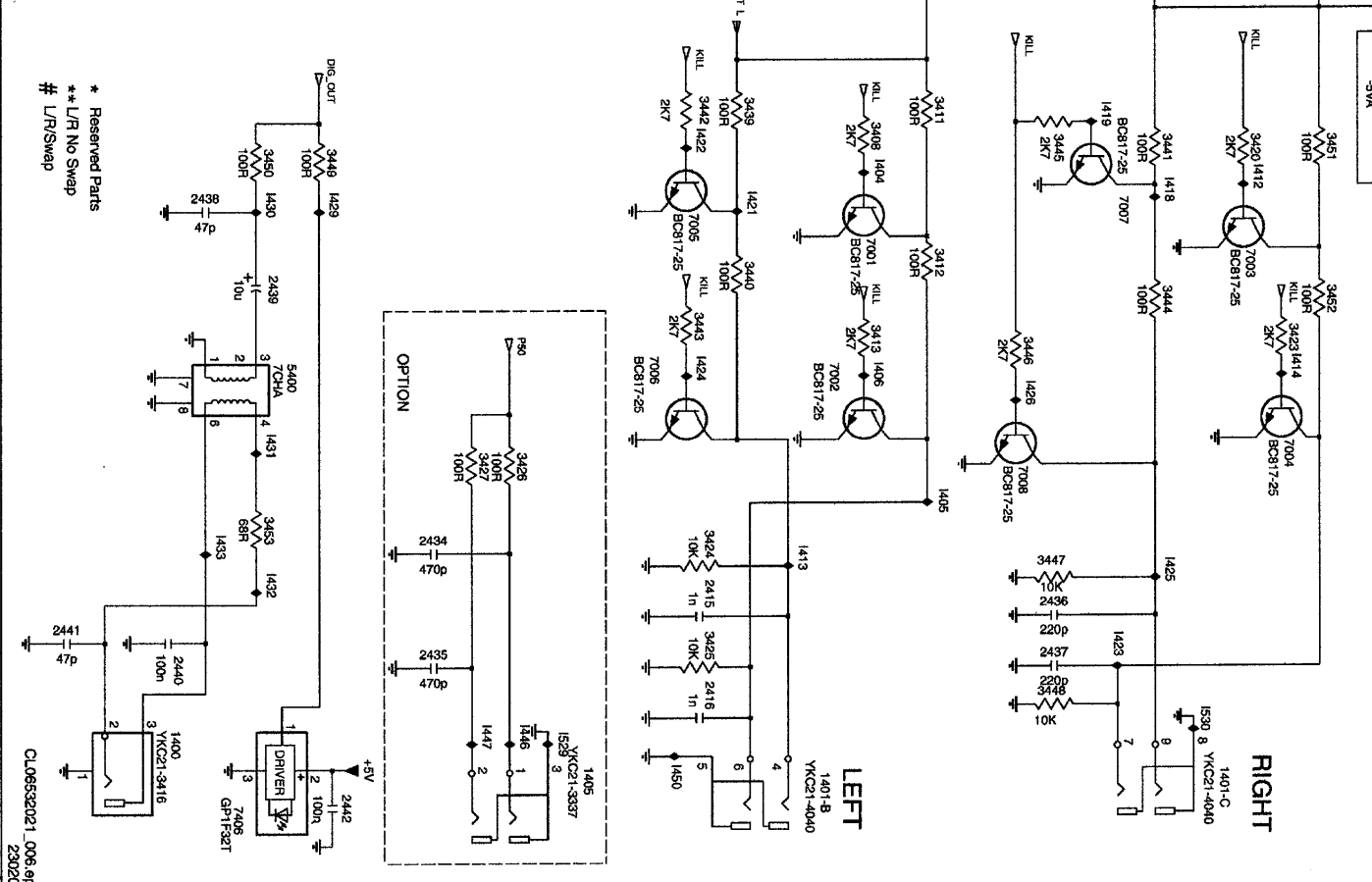
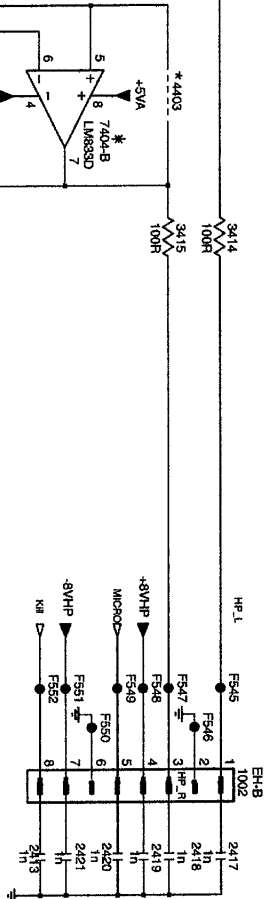


INFO: FL2-FL14:8Vdc-FMS
CLO6532021_004.EPS
230200

AV board

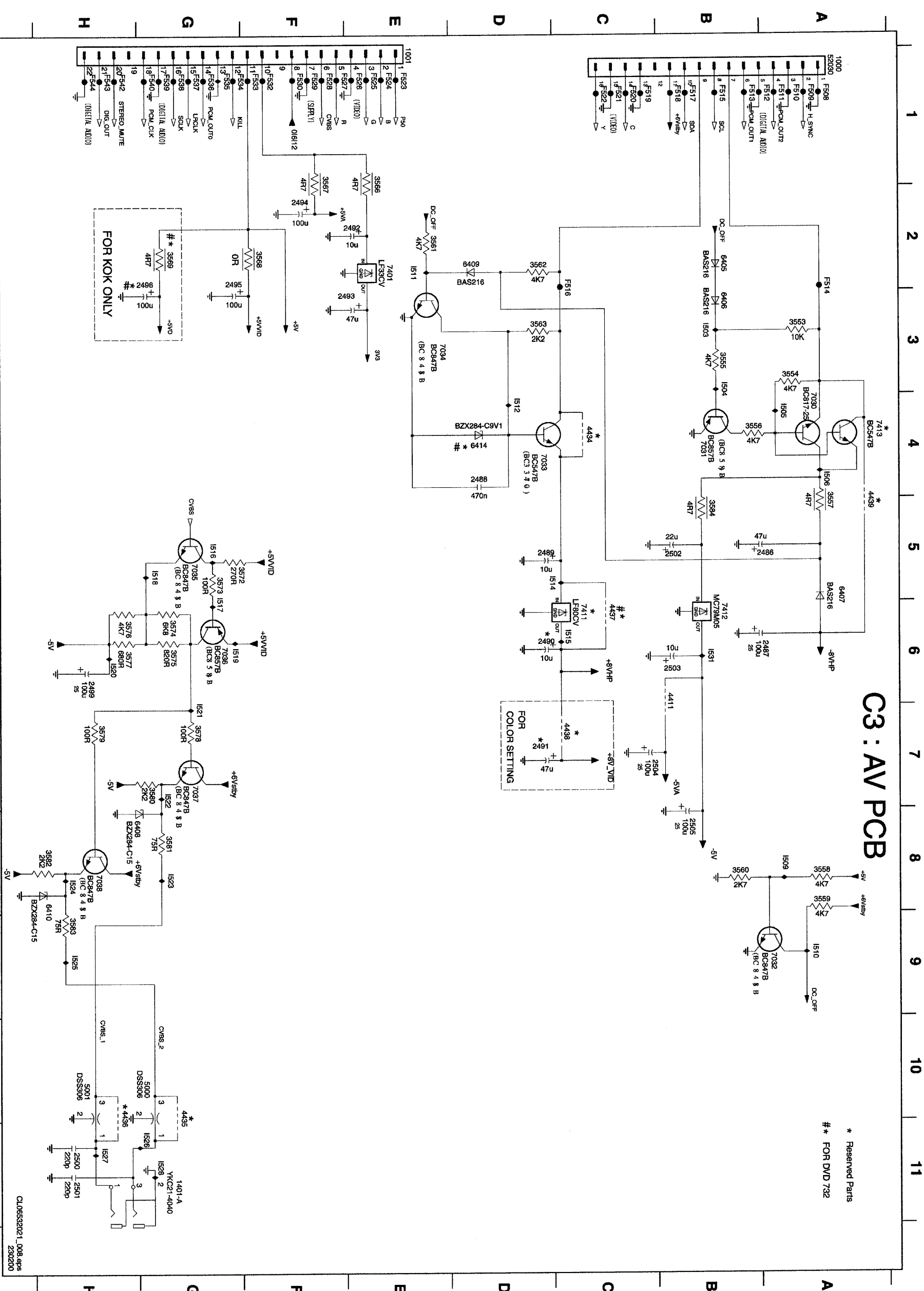


C1: AV PCB



| | |
|------------|-----------|
| 1082 A13 | 7001 B7 |
| 1083 A13 | 7002 B8 |
| 1400 B4 | 7004 F10 |
| 1401-B-B13 | 7005 D6 |
| 1401-C-F13 | 7006 E9 |
| 2400 A2 | 7007 G10 |
| 2401 A4 | 7008 G12 |
| 2402 D2 | 7009 C3 |
| 2403 D2 | 7000 B2 |
| 2404 D3 | 7400-A-B5 |
| 2405 C5 | 7400 B7 |
| 2406 B6 | 7400 A7 |
| 2407 A7 | 7400-A-A7 |
| 2408 B7 | 7400 B3 |
| 2409 D7 | 7400 C3 |
| 2410 E7 | 7400 H13 |
| 2411 E5 | F500 E5 |
| 2412 D5 | F501 E5 |
| 2413 B13 | F502 E5 |
| 2415 C12 | F503 E5 |
| 2416 C13 | F504 F5 |
| 2417 A13 | F505 F5 |
| 2418 A13 | F506 F5 |
| 2419 A13 | F507 F5 |
| 2420 B12 | F508 A13 |
| 2421 E2 | F509 A13 |
| 2422 E2 | F510 A13 |
| 2423 F2 | F511 B13 |
| 2424 F5 | F512 B13 |
| 2425 F7 | F513 B13 |
| 2426 F7 | F514 B4 |
| 2427 G5 | F515 B4 |
| 2428 H5 | F516 B4 |
| 2429 H4 | F517 B4 |
| 2430 H4 | F518 B4 |
| 2431 H2 | F519 B12 |
| 2432 D12 | F520 B12 |
| 2433 D12 | F521 B12 |
| 2434 D12 | F522 B12 |
| 2435 D12 | F523 B12 |
| 2436 D12 | F524 B12 |
| 2437 D12 | F525 B12 |
| 2438 D12 | F526 B12 |
| 2439 D12 | F527 B12 |
| 2440 D12 | F528 B12 |
| 2441 D12 | F529 B12 |
| 2442 D12 | F530 B12 |
| 2443 D12 | F531 B12 |
| 2444 D12 | F532 B12 |
| 2445 D12 | F533 B12 |
| 2446 D12 | F534 B12 |
| 2447 D12 | F535 B12 |
| 2448 D12 | F536 B12 |
| 2449 D12 | F537 B12 |
| 2450 D12 | F538 B12 |
| 2451 D12 | F539 B12 |
| 2452 D12 | F540 B12 |
| 2453 D12 | F541 B12 |
| 2454 D12 | F542 B12 |
| 2455 D12 | F543 B12 |
| 2456 D12 | F544 B12 |
| 2457 D12 | F545 B12 |
| 2458 D12 | F546 B12 |
| 2459 D12 | F547 B12 |
| 2460 D12 | F548 B12 |
| 2461 D12 | F549 B12 |
| 2462 D12 | F550 B12 |
| 2463 D12 | F551 B12 |
| 2464 D12 | F552 B12 |
| 2465 D12 | F553 B12 |
| 2466 D12 | F554 B12 |
| 2467 D12 | F555 B12 |
| 2468 D12 | F556 B12 |
| 2469 D12 | F557 B12 |
| 2470 D12 | F558 B12 |
| 2471 D12 | F559 B12 |
| 2472 D12 | F560 B12 |
| 2473 D12 | F561 B12 |
| 2474 D12 | F562 B12 |
| 2475 D12 | F563 B12 |
| 2476 D12 | F564 B12 |
| 2477 D12 | F565 B12 |
| 2478 D12 | F566 B12 |
| 2479 D12 | F567 B12 |
| 2480 D12 | F568 B12 |
| 2481 D12 | F569 B12 |
| 2482 D12 | F570 B12 |
| 2483 D12 | F571 B12 |
| 2484 D12 | F572 B12 |
| 2485 D12 | F573 B12 |
| 2486 D12 | F574 B12 |
| 2487 D12 | F575 B12 |
| 2488 D12 | F576 B12 |
| 2489 D12 | F577 B12 |
| 2490 D12 | F578 B12 |
| 2491 D12 | F579 B12 |
| 2492 D12 | F580 B12 |
| 2493 D12 | F581 B12 |
| 2494 D12 | F582 B12 |
| 2495 D12 | F583 B12 |
| 2496 D12 | F584 B12 |
| 2497 D12 | F585 B12 |
| 2498 D12 | F586 B12 |
| 2499 D12 | F587 B12 |
| 2500 D12 | F588 B12 |

AV board



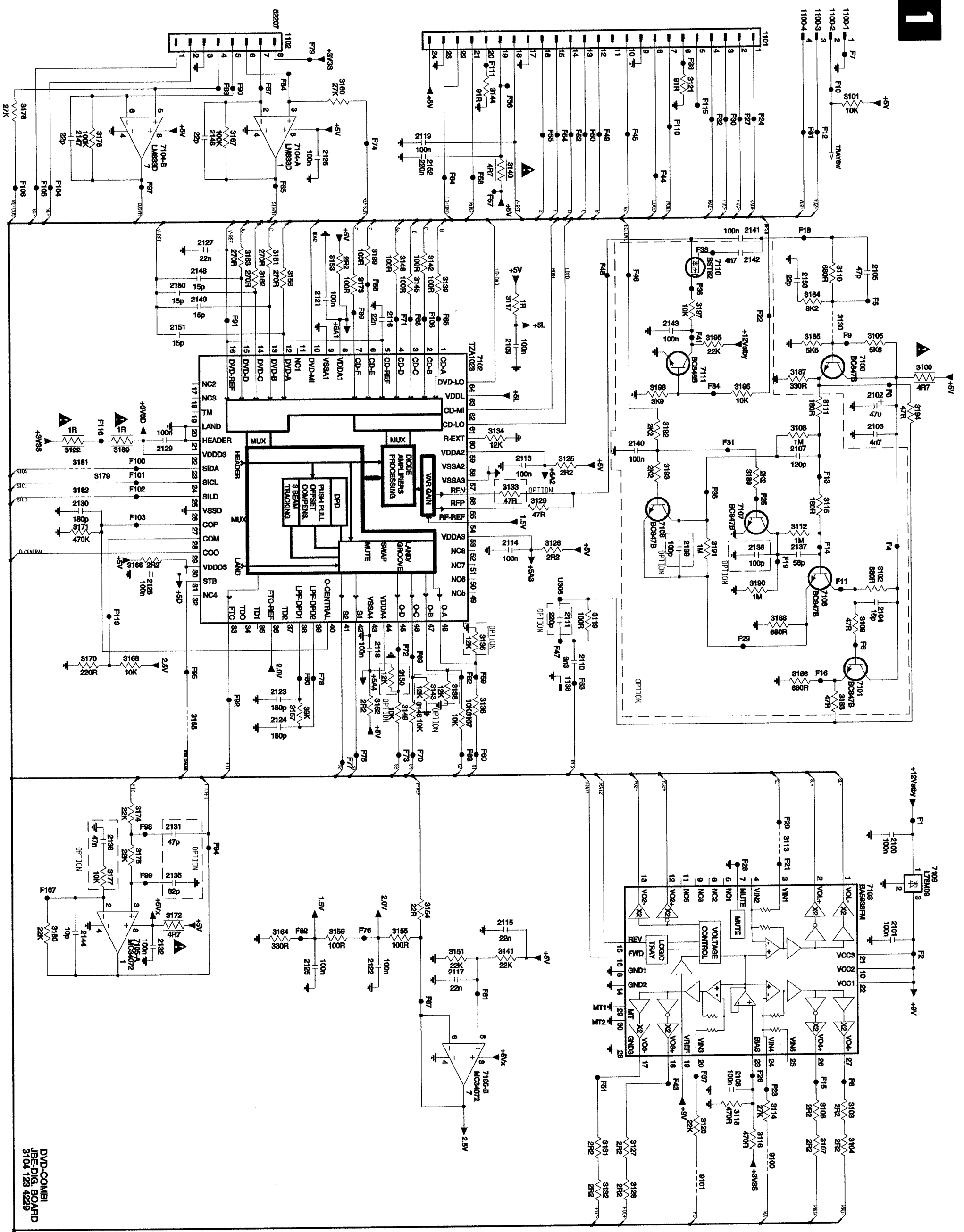
C3 : AV PCB

* Reserved Parts
* FOR DVD 732

CL06532021_008.eps
2302000

| | |
|----------|---------|
| 1000 A1 | FS34 G1 |
| 1001 E1 | FS38 G1 |
| 2487 A5 | FS39 G1 |
| 2488 A5 | FS39 G1 |
| 2489 D6 | FS40 G1 |
| 2490 D6 | FS42 H1 |
| 2491 D7 | FS43 H1 |
| 2492 E2 | FS44 H1 |
| 2493 E3 | FS44 H1 |
| 2494 F2 | FS44 H1 |
| 2495 G2 | FS44 H1 |
| 2496 G2 | FS44 H1 |
| 2497 H8 | FS44 H1 |
| 2500 H11 | FS44 H1 |
| 2501 H11 | FS44 H1 |
| 2502 H5 | FS44 H1 |
| 2503 H5 | FS44 H1 |
| 2504 C7 | FS44 H1 |
| 2505 B8 | FS44 H1 |
| 3552 A3 | FS44 H1 |
| 3553 B3 | FS44 H1 |
| 3554 B3 | FS44 H1 |
| 3555 B4 | FS44 H1 |
| 3556 B4 | FS44 H1 |
| 3557 A8 | FS44 H1 |
| 3558 A8 | FS44 H1 |
| 3559 B8 | FS44 H1 |
| 3561 E2 | FS44 H1 |
| 3562 D2 | FS44 H1 |
| 3563 E1 | FS44 H1 |
| 3564 F1 | FS44 H1 |
| 3565 F2 | FS44 H1 |
| 3566 G2 | FS44 H1 |
| 3567 G3 | FS44 H1 |
| 3568 G3 | FS44 H1 |
| 3569 G8 | FS44 H1 |
| 3570 G8 | FS44 H1 |
| 3571 H8 | FS44 H1 |
| 3572 H8 | FS44 H1 |
| 3573 H8 | FS44 H1 |
| 3574 H8 | FS44 H1 |
| 3575 H8 | FS44 H1 |
| 3576 H8 | FS44 H1 |
| 3577 H8 | FS44 H1 |
| 3578 G7 | FS44 H1 |
| 3579 H7 | FS44 H1 |
| 3580 G7 | FS44 H1 |
| 3581 G8 | FS44 H1 |
| 3582 H8 | FS44 H1 |
| 3583 H9 | FS44 H1 |
| 3584 B5 | FS44 H1 |
| 4411 B6 | FS44 H1 |
| 4434 C4 | FS44 H1 |
| 4435 G10 | FS44 H1 |
| 4436 H10 | FS44 H1 |
| 4437 C6 | FS44 H1 |
| 4438 C7 | FS44 H1 |
| 4439 A5 | FS44 H1 |
| 5000 G10 | FS44 H1 |
| 5001 H10 | FS44 H1 |
| 6405 B2 | FS44 H1 |
| 6406 B2 | FS44 H1 |
| 6407 A5 | FS44 H1 |
| 6408 H5 | FS44 H1 |
| 6409 D2 | FS44 H1 |
| 6410 H4 | FS44 H1 |
| 6411 D4 | FS44 H1 |
| 7030 A4 | FS44 H1 |
| 7031 B4 | FS44 H1 |
| 7032 A0 | FS44 H1 |
| 7033 D4 | FS44 H1 |
| 7034 E3 | FS44 H1 |
| 7035 G5 | FS44 H1 |
| 7036 G6 | FS44 H1 |
| 7037 G7 | FS44 H1 |
| 7038 H8 | FS44 H1 |
| 7401 E2 | FS44 H1 |
| 7411 C8 | FS44 H1 |
| 7412 B6 | FS44 H1 |
| 7413 A4 | FS44 H1 |
| FS06 A1 | FS44 H1 |
| FS06 A1 | FS44 H1 |
| FS10 A1 | FS44 H1 |
| FS11 A1 | FS44 H1 |
| FS12 A1 | FS44 H1 |
| FS13 B1 | FS44 H1 |
| FS14 B1 | FS44 H1 |
| FS15 B1 | FS44 H1 |
| FS16 B1 | FS44 H1 |
| FS17 B1 | FS44 H1 |
| FS18 B1 | FS44 H1 |
| FS19 C1 | FS44 H1 |
| FS20 C1 | FS44 H1 |
| FS21 C1 | FS44 H1 |
| FS22 E1 | FS44 H1 |
| FS23 E1 | FS44 H1 |
| FS24 E1 | FS44 H1 |
| FS25 F1 | FS44 H1 |
| FS26 F1 | FS44 H1 |
| FS27 F1 | FS44 H1 |
| FS28 F1 | FS44 H1 |
| FS29 F1 | FS44 H1 |
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| FS31 F1 | FS44 H1 |
| FS32 F1 | FS44 H1 |
| FS33 F1 | FS44 H1 |

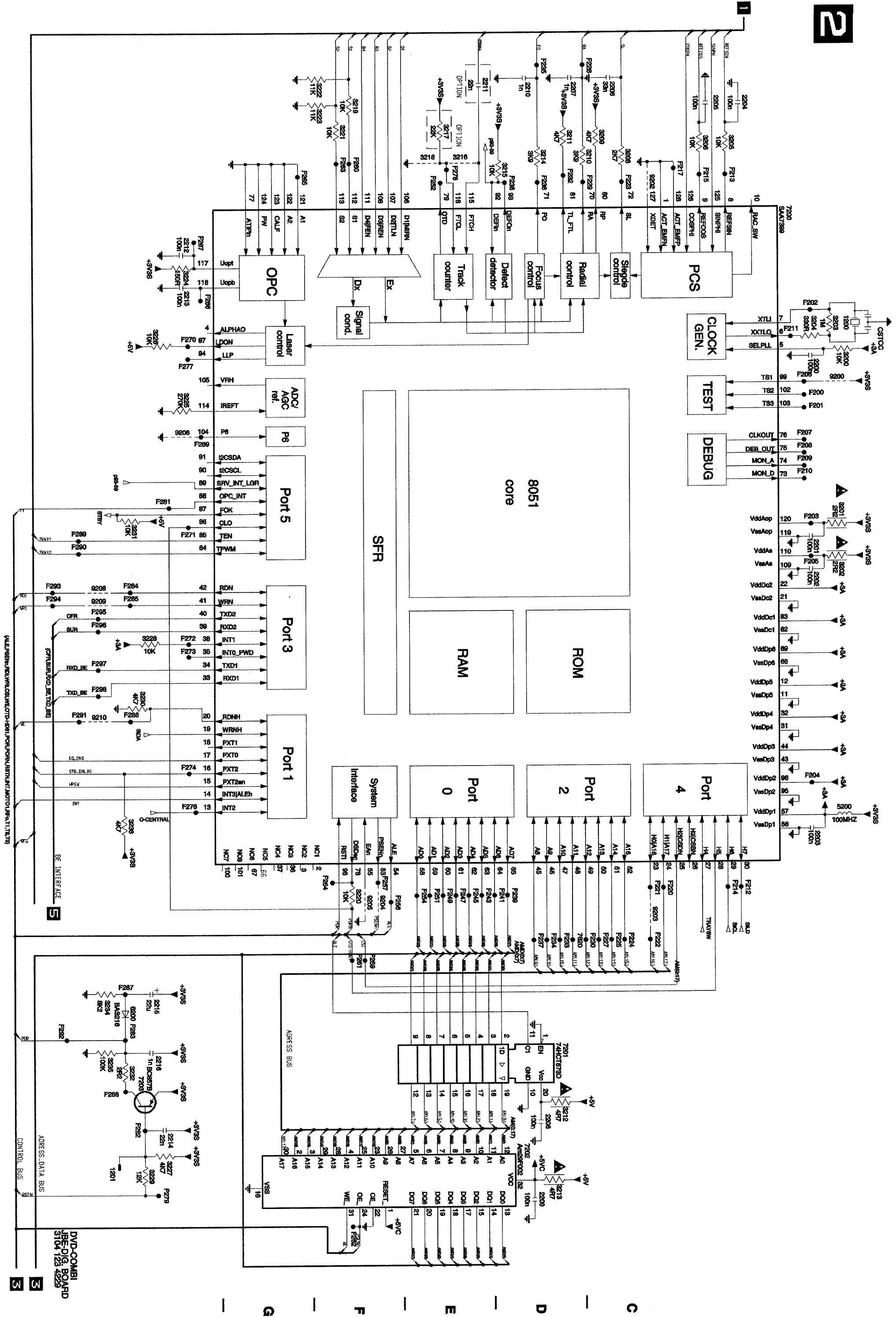
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DVD-COMBI
JBE-DIG. BOARD
3104 123 4229

2

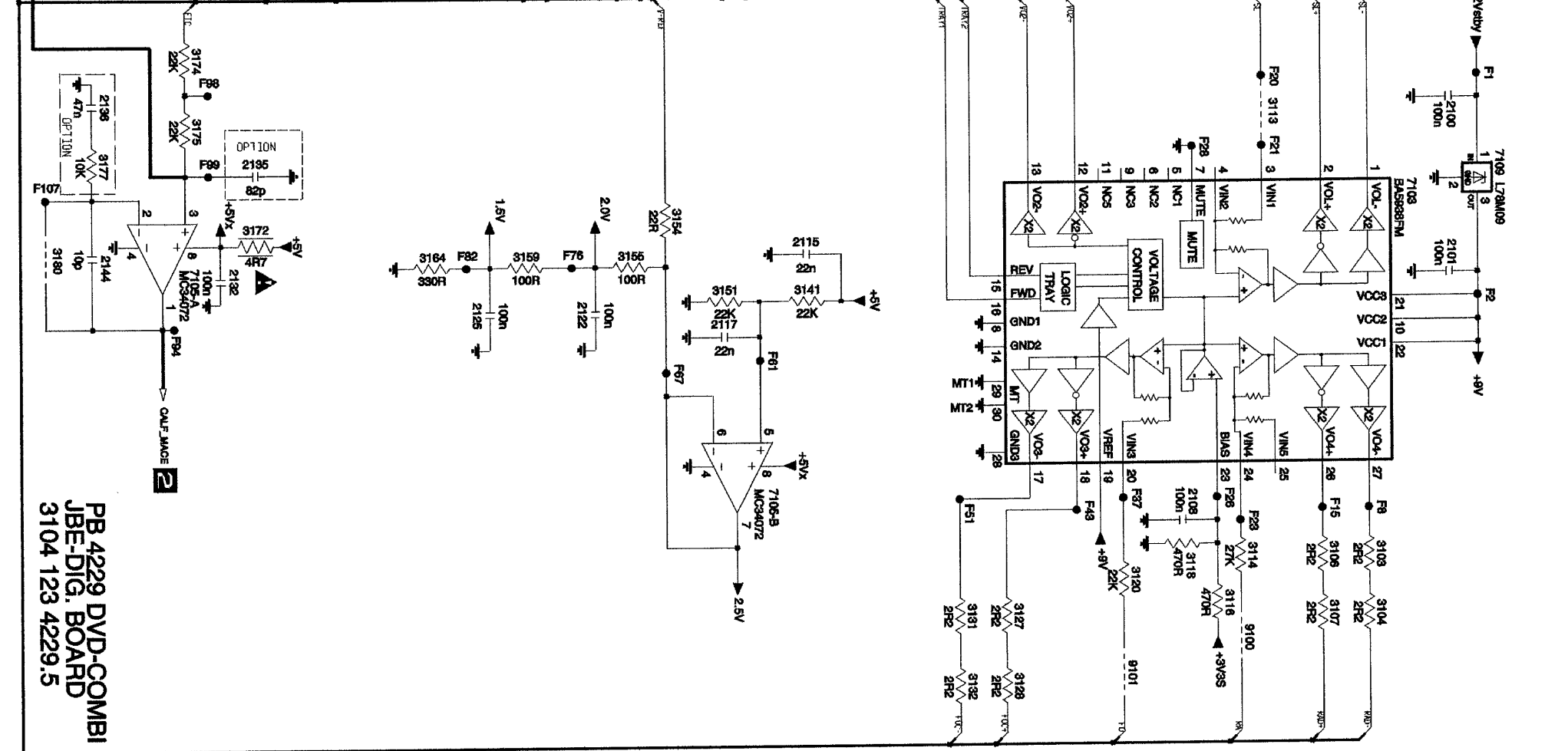
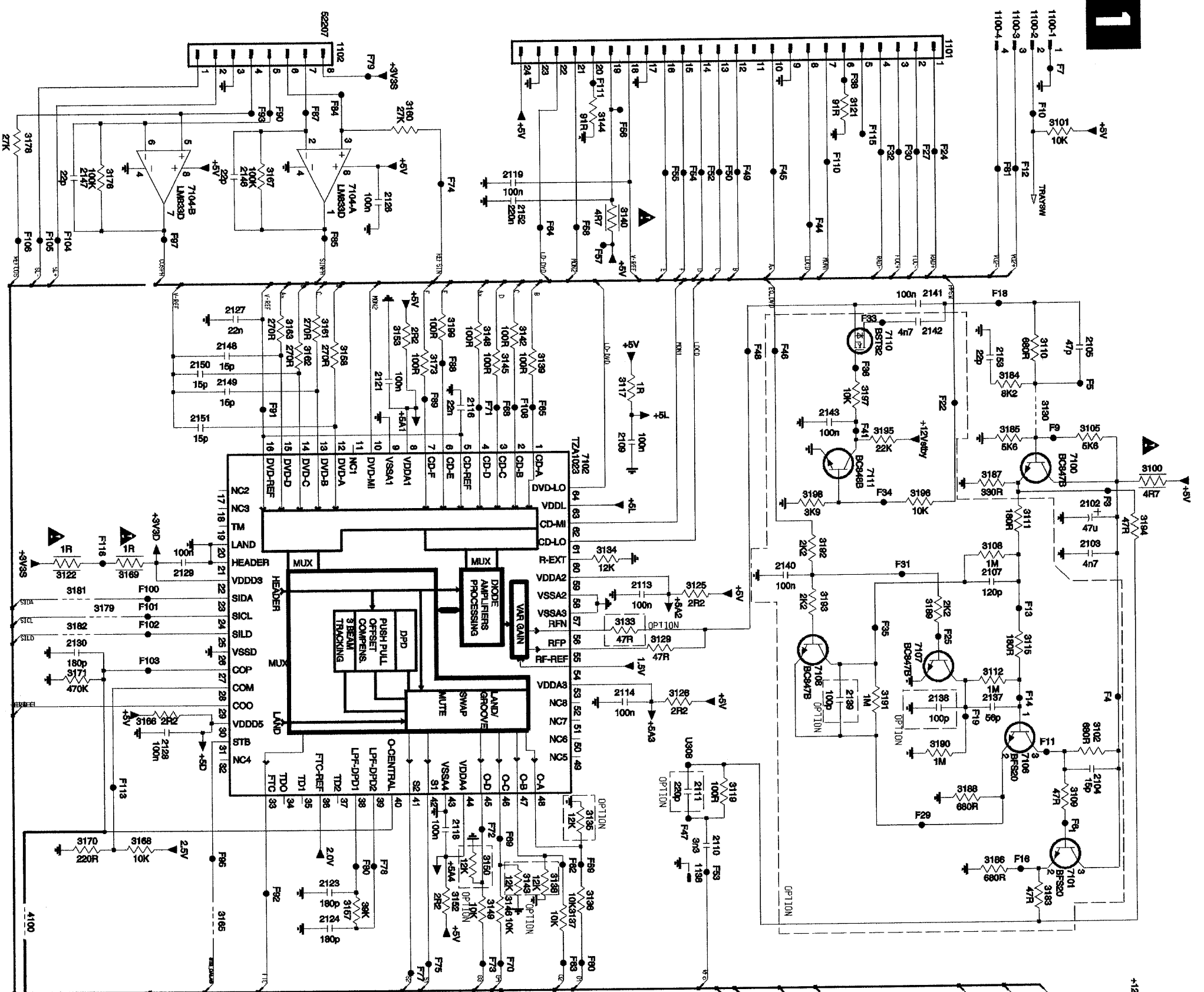
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DVD-COMBI JBE-DIG. BOARD 3104 123 4229

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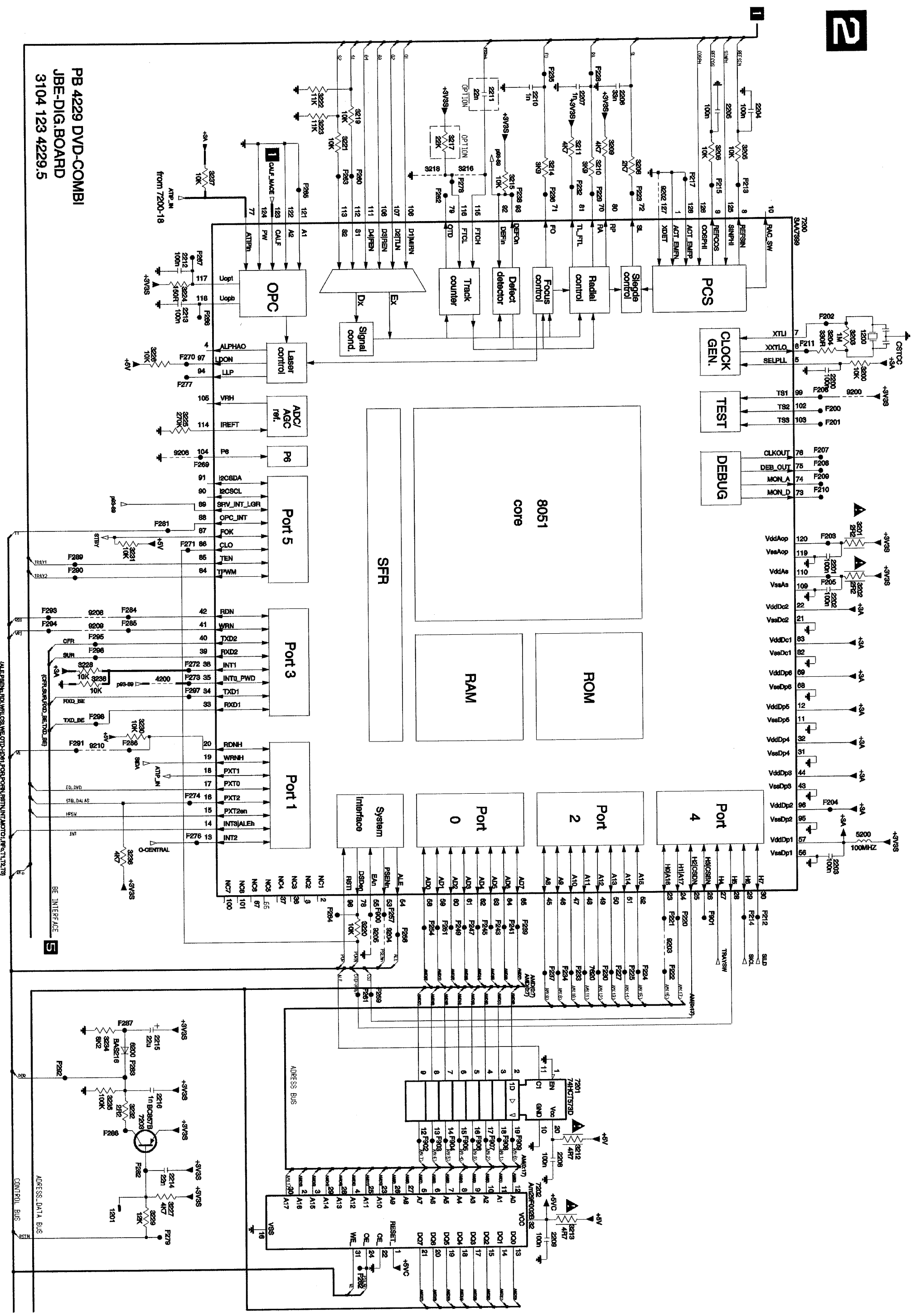
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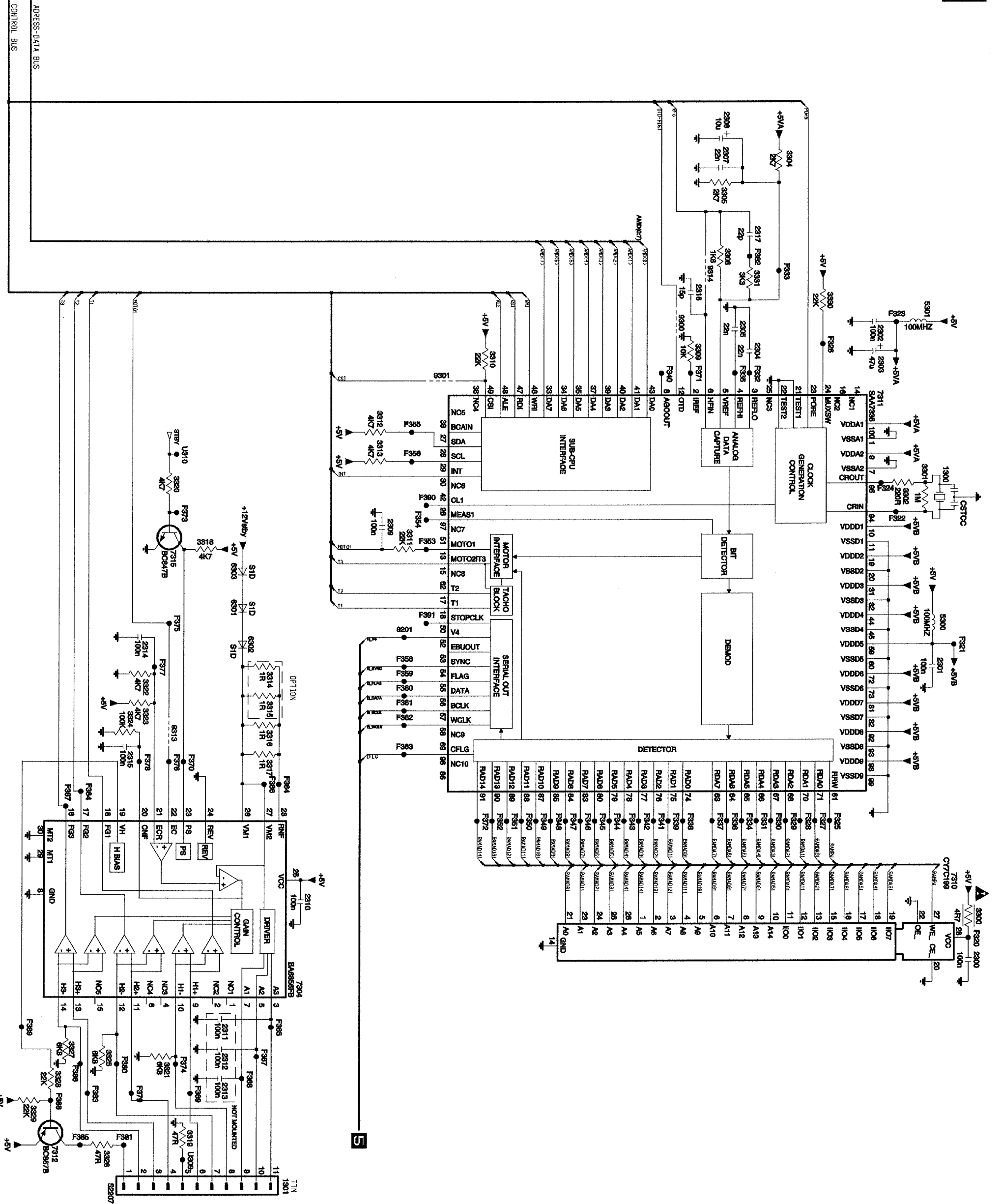
PB 4229 DVD-COMBI
 JBE-DIG. BOARD
 3104 123 4229.5

2

2

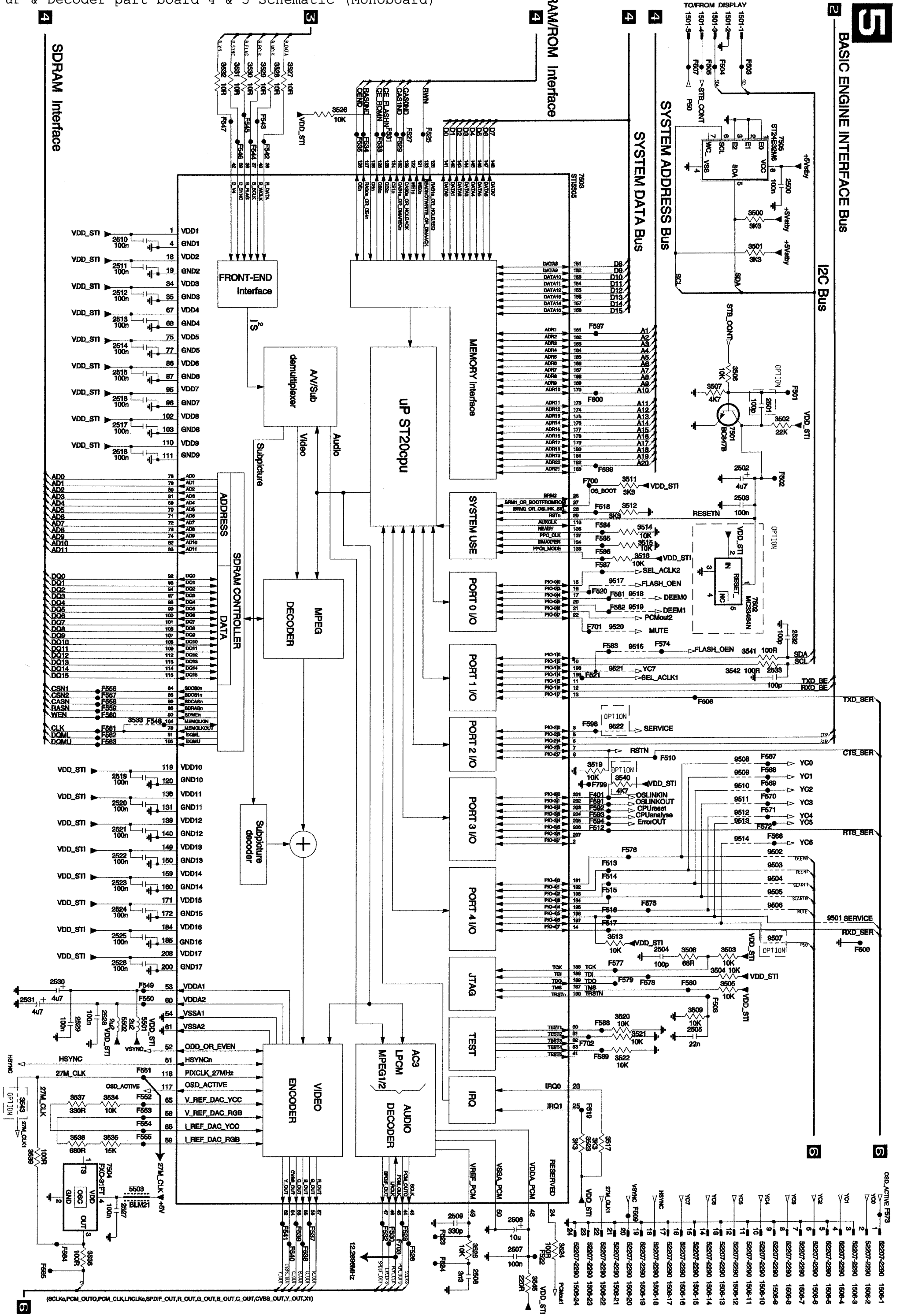


3



2

ADDRESS-DATA BUS
CONTROL BUS



5
BASIC ENGINE INTERFACE BUS

2
I2C BUS

6
OBD ACTIVE F573

4
SDRAM Interface

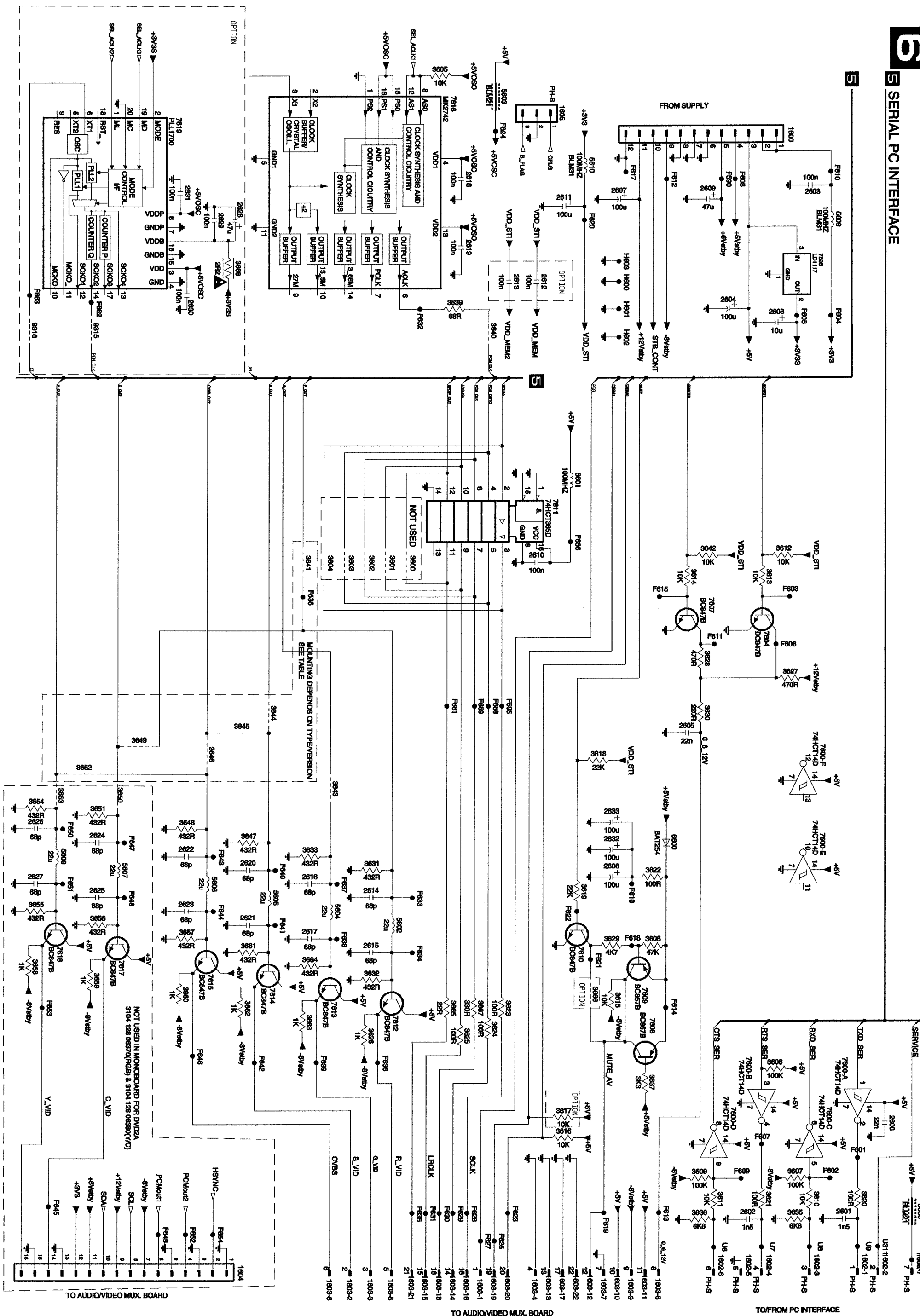
4
RAW/ROM Interface

4
SYSTEM ADDRESS BUS

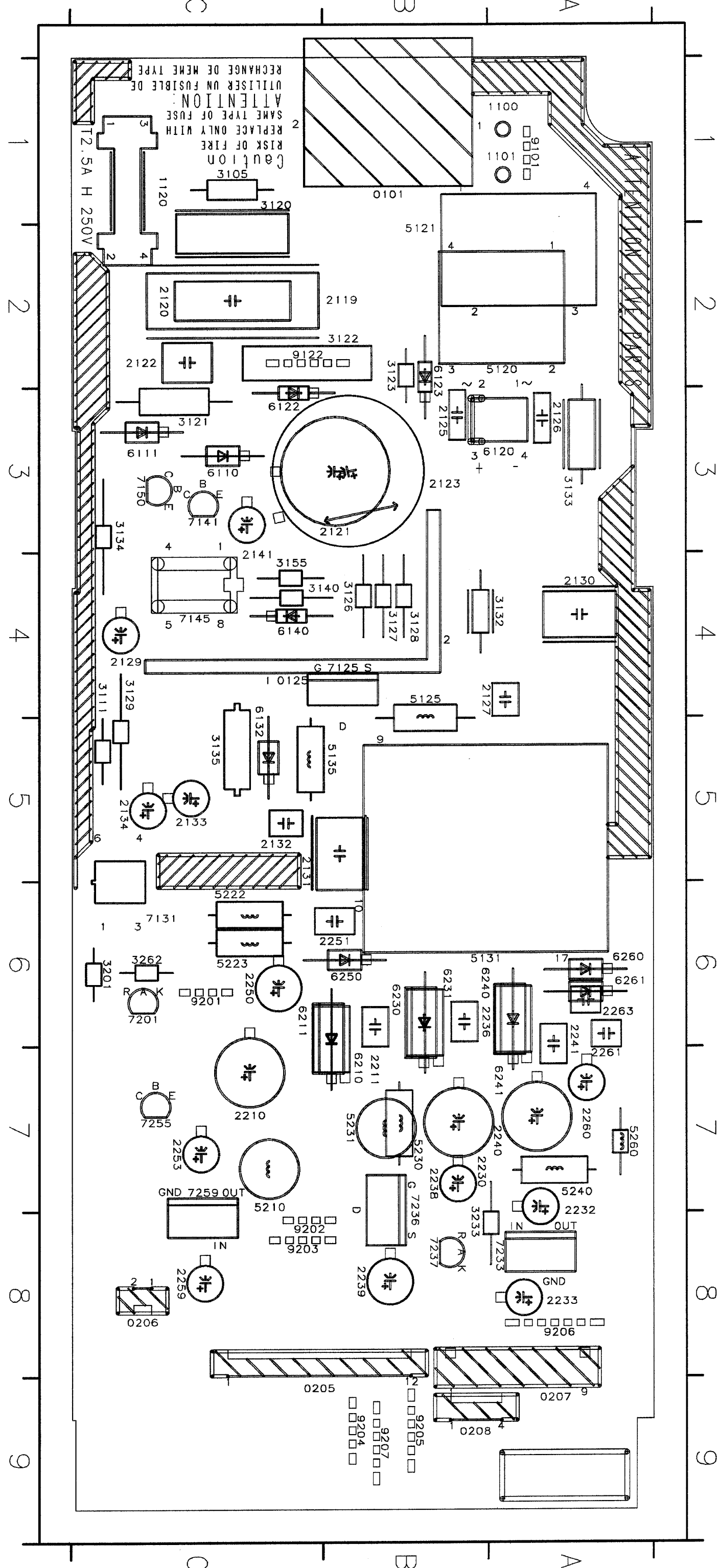
4
SYSTEM DATA BUS

(SCLK, PCM_OUT0, PCM_CLK, LROLK, SPDIF_OUT, R_OUT, G_OUT, B_OUT, CVBS_OUT, Y_OUT, X1)

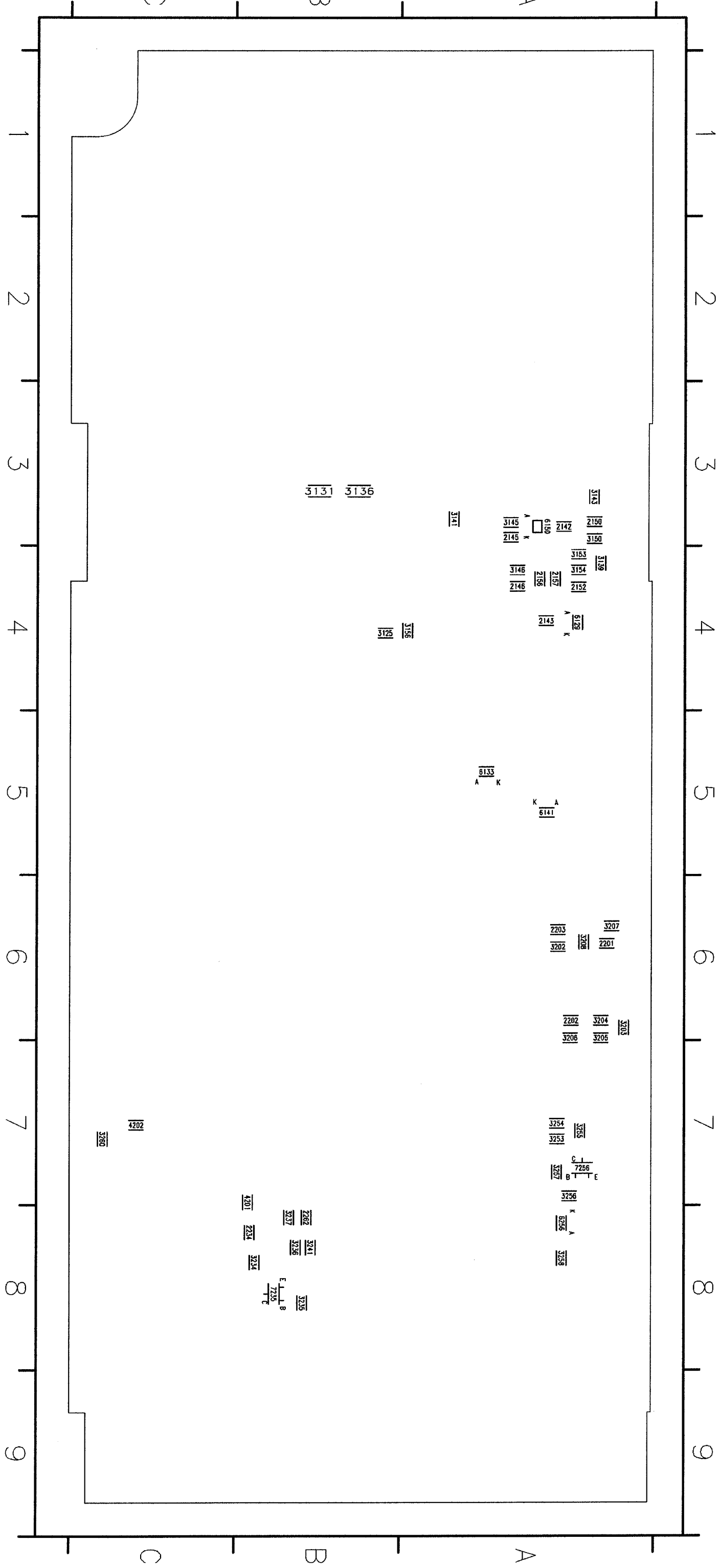
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SERIAL PC INTERFACE



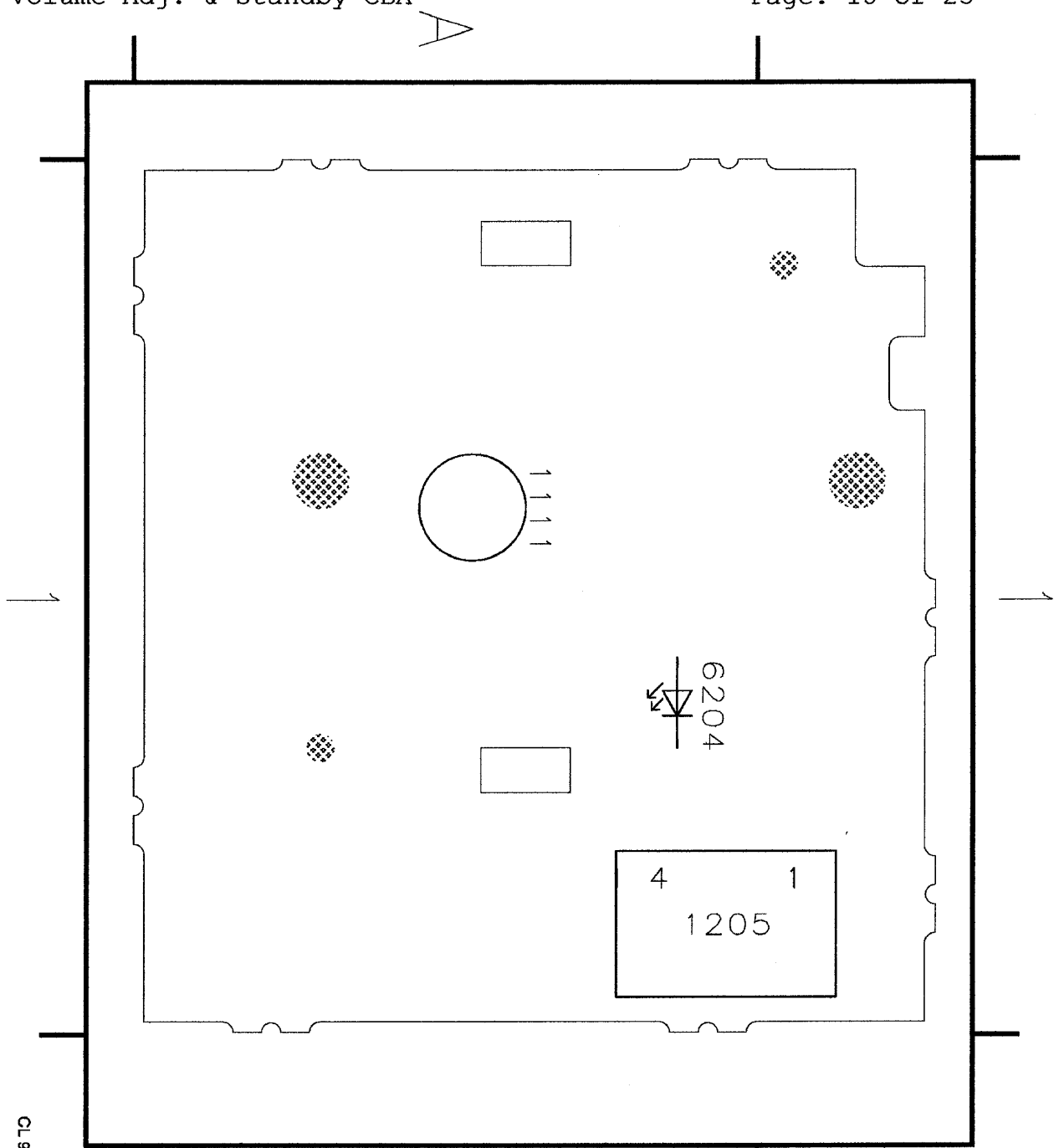
TO AUDIO/VIDEO MUX BOARD
 TO AUDIO/VIDEO MUX BOARD
 TO/FROM PC INTERFACE



- 0101 B1 0208 B9 2122 C2 2129 C4 2134 C5 2232 A7 2240 A7 2259 C8 3111 C4 3120 C1 3125 B4 3133 A3 3201 C6 5125 B4 5223 C6 5230 B7 6110 C3 6132 C5 6231 B6 6261 A6 7150 C3 7255 C7 9202 C8 9207 B9
- 0125 C4 1120 C1 2123 B3 2130 A4 2141 C4 2233 C7 2250 C6 2260 A7 2266 C1 3121 C3 3127 B4 3134 C3 3233 B8 5131 B6 5135 B5 5231 B7 6111 C3 6140 C4 6240 B6 7125 B4 7201 C6 7259 C7 9203 C8
- 0205 C9 2119 B2 2125 B3 2131 C5 2210 C7 2236 B6 2251 B7 2261 A7 7131 C6 7233 A8 9101 A1 9204 B9
- 0206 C8 2120 C2 2126 B4 2132 C5 2211 B7 2238 B7 2253 C7 3105 C1 3122 B2 3128 C4 3140 B4 3145 C4 3155 C4 5121 B2 5240 A7 7141 C3 7236 B7 9122 C2 9205 B9
- 0207 A9 2121 B3 2127 B4 2133 C5 2230 B7 2239 B8 2253 C7 3111 C4 3123 B2 3132 A4 3155 C4 5121 B2 5222 C6 5260 A7 6123 B2 6230 B6 6260 A6 7145 C4 7237 B8 9201 C6 9206 A8

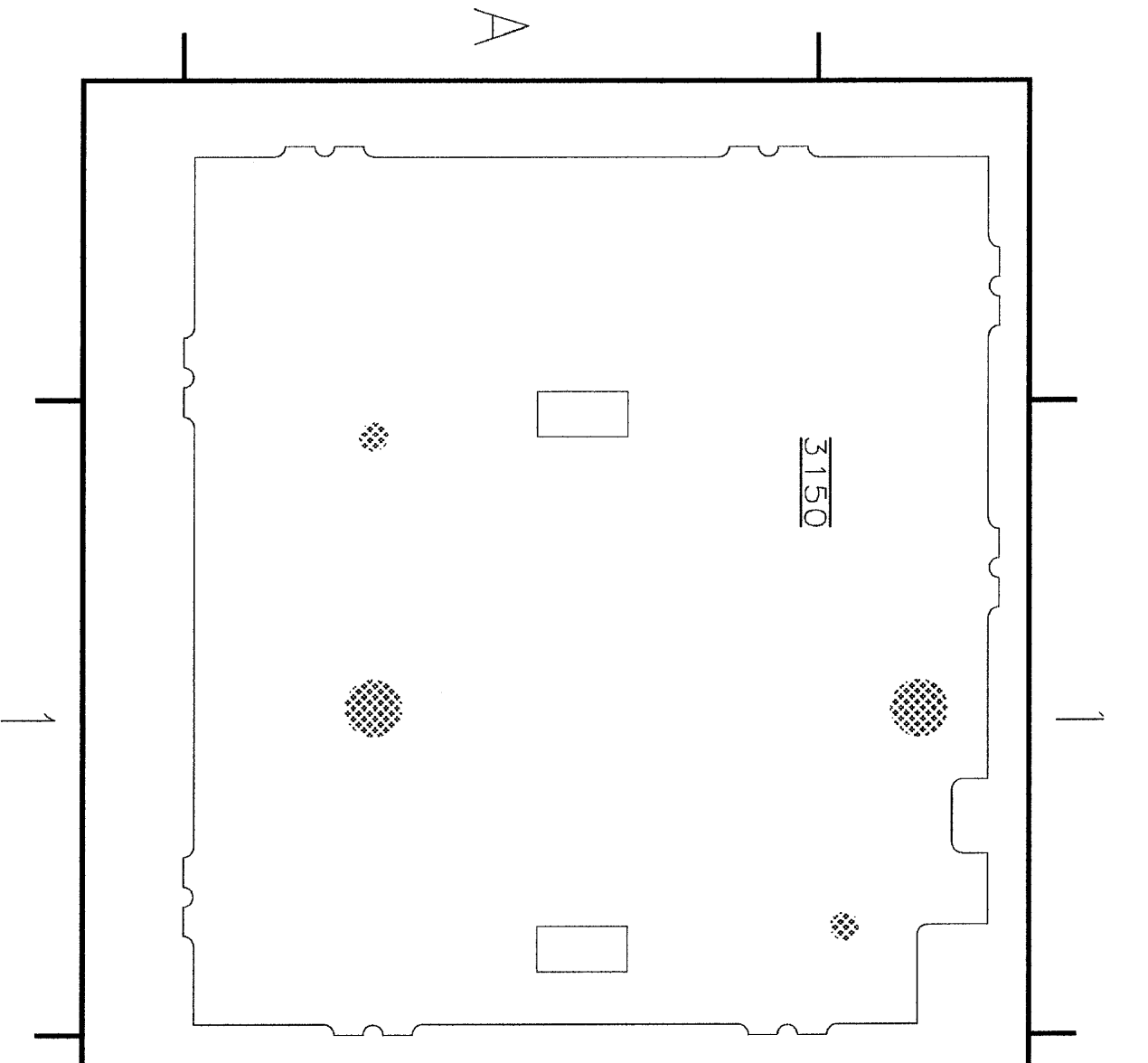


- 2142 A3 2146 A4 2155 A4 2202 A6 2262 B8 3136 B3 3143 A3 3150 A3 3155 A4 3204 A6 3207 A6 3235 B8 3241 B8 3255 A7 3258 A8 4202 C7 6141 A5 7235 B8
- 2143 A4 2150 A3 2157 A4 2201 A6 2203 A6 3125 B4 3139 A4 3145 A3 3153 A4 3205 A6 3208 A6 3236 B8 3253 A7 3256 A7 3260 C7 6129 A4 6150 A3 7256 A7
- 2145 A3 2152 A4 2201 A6 2234 B8 3131 B3 3141 A3 3146 A4 3154 A4 3203 A6 3206 A6 3234 B8 3237 B8 3254 A7 3257 A7 4201 B7 6133 A5 6256 A8



CL 96532070_014.eps
180799

1111
1205
6204



CL 96532070_015.eps
180799

3150 A1

Electrical diagrams and Print-layouts

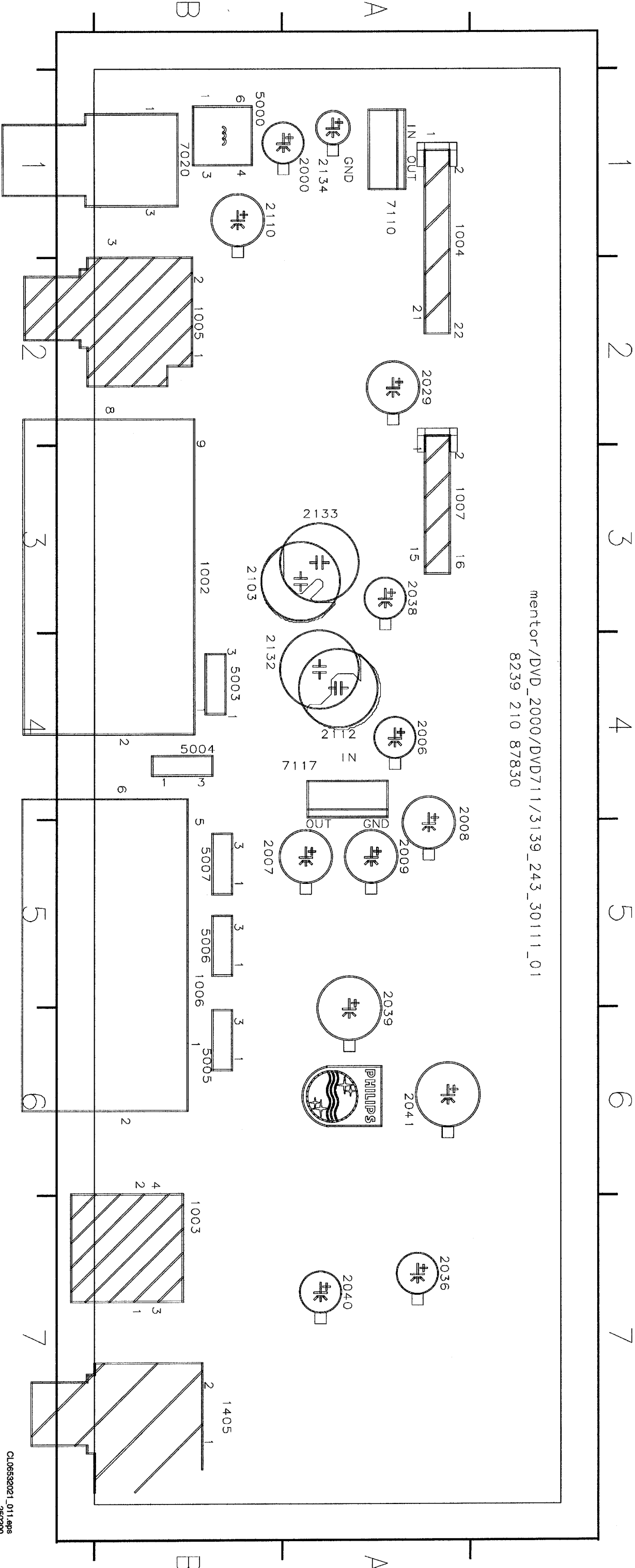
DVD 711/751

6.

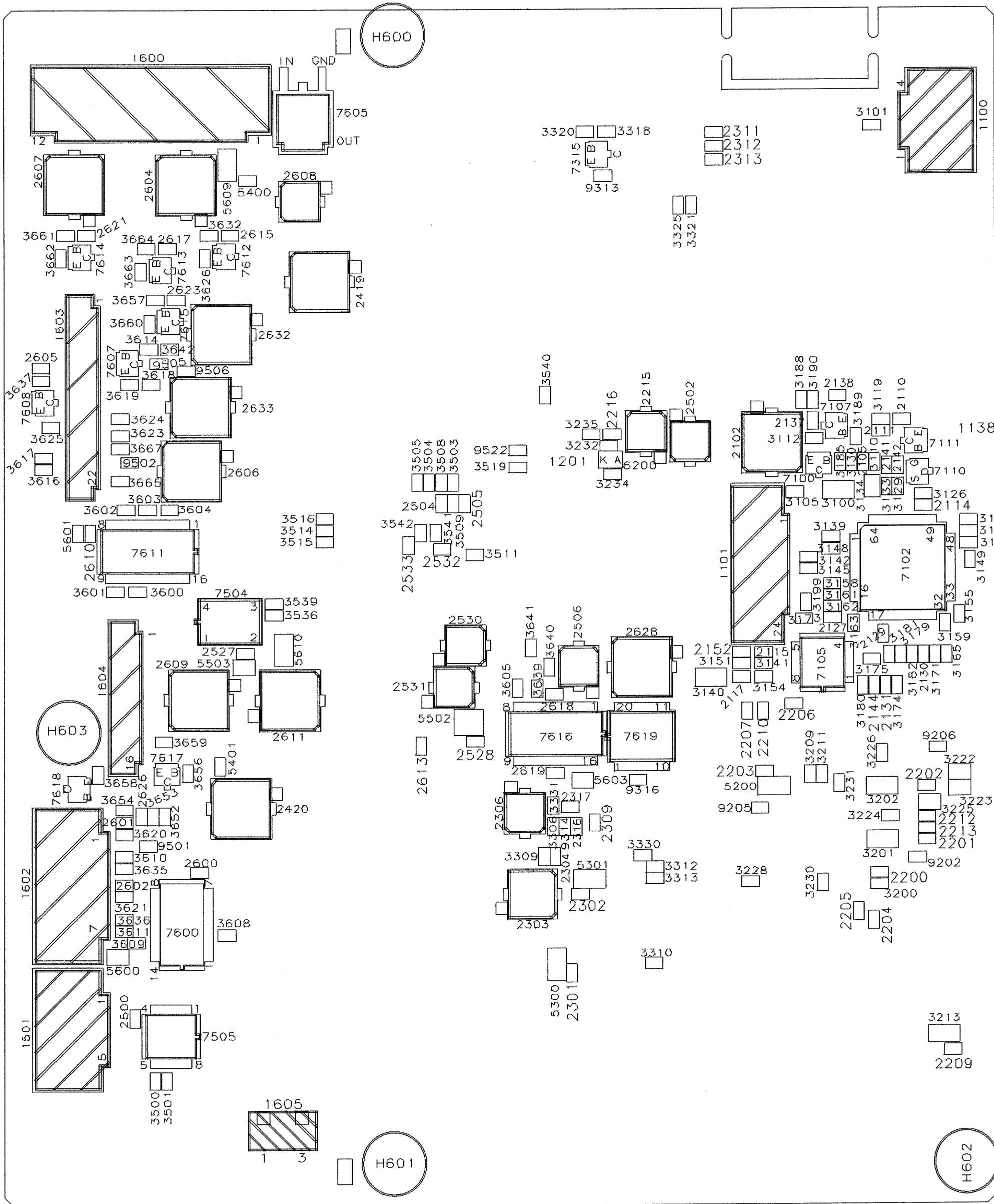
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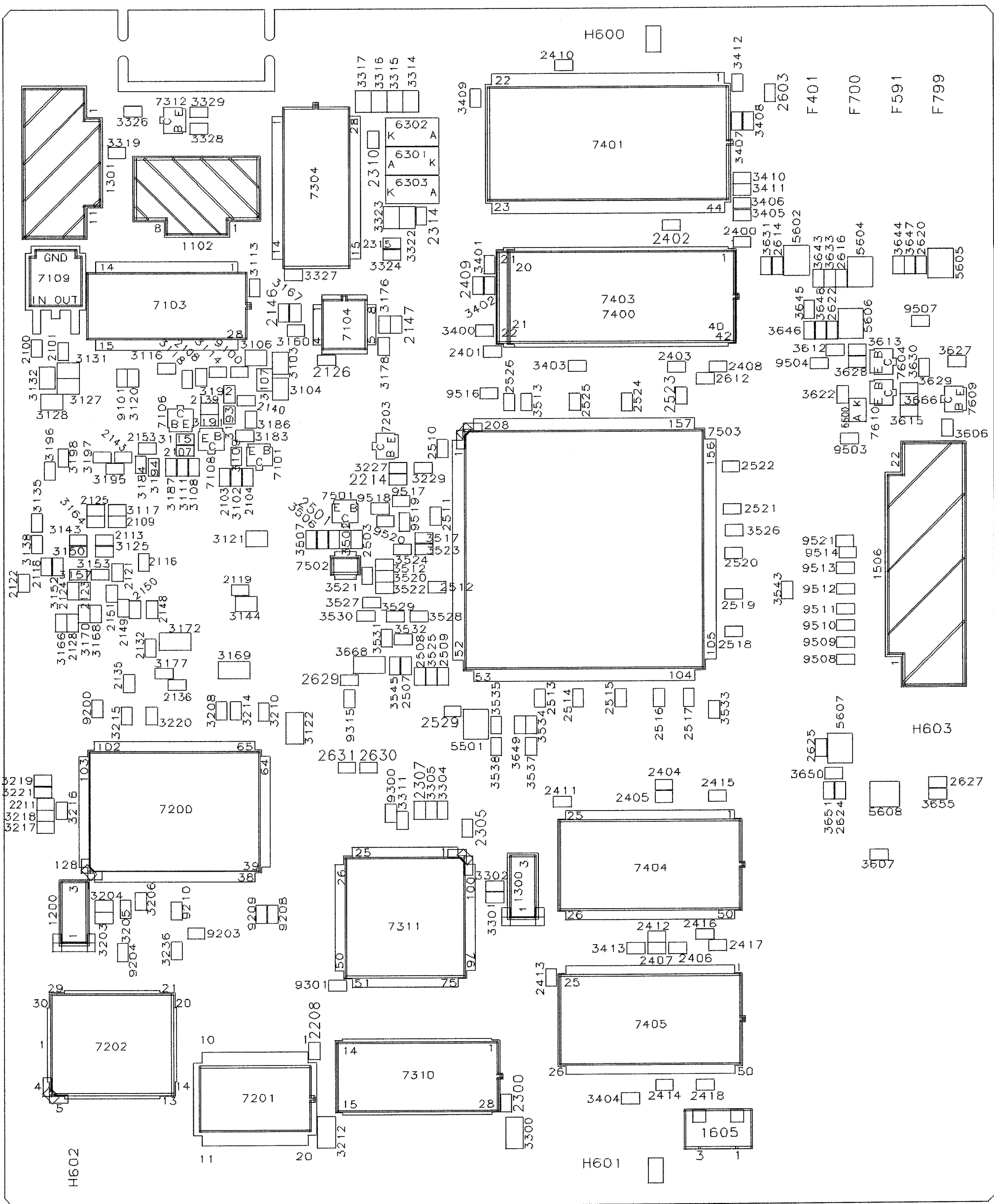
AV Pwb (DVD 711)

| | | | | | | | | | | | | | | | | | | | | | |
|------|----|------|----|------|----|------|----|------|----|------|----|------|----|------|----|------|----|------|----|------|----|
| 1002 | B3 | 1005 | B2 | 1405 | B7 | 2007 | B5 | 2029 | A2 | 2039 | A6 | 2103 | B3 | 2132 | B4 | 5000 | B1 | 5005 | B6 | 7020 | B1 |
| 1003 | B7 | 1006 | B5 | 2000 | A1 | 2008 | A5 | 2036 | A7 | 2040 | A7 | 2110 | B1 | 2133 | A3 | 5003 | B4 | 5006 | B5 | 7119 | A1 |
| 1004 | A1 | 1007 | A3 | 2006 | A4 | 2009 | A5 | 2038 | A3 | 2041 | A6 | 2112 | A4 | 2134 | A1 | 5004 | B4 | 5007 | B5 | 7117 | A4 |



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250200





Philips Consumer Electronics

Technical Service Data

Service Solutions Group
Technical Publications Dept.
P.O. Box 555
401 East Old Andrew Johnson Hwy.
Jefferson City, TN 37760

Manual 1960

Model no.: 105E11

First Publish: 7-14-2000

Rev. Date: 10-2-2000

Print Date: 5/15/2001

Training Information

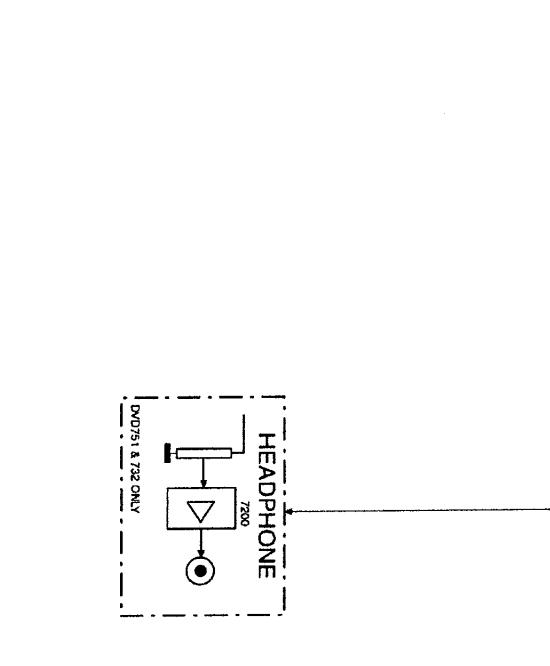
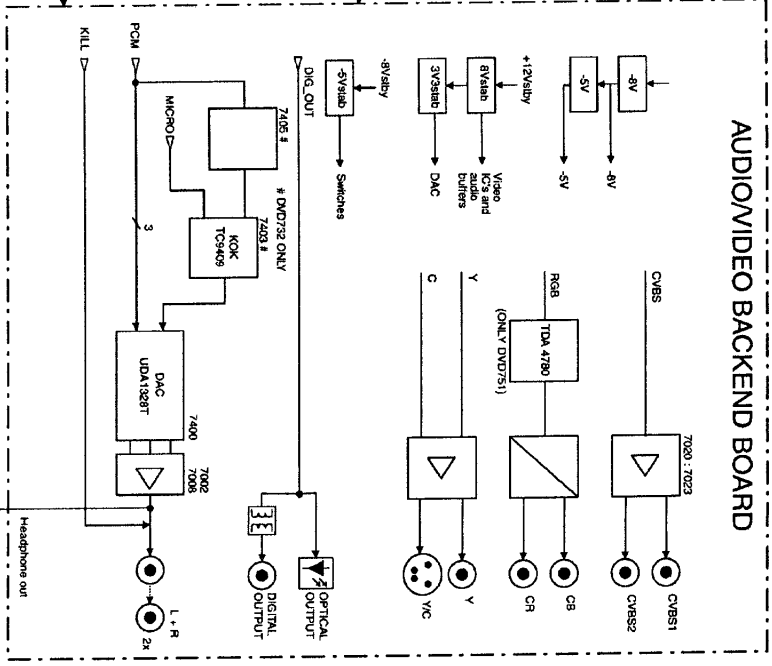
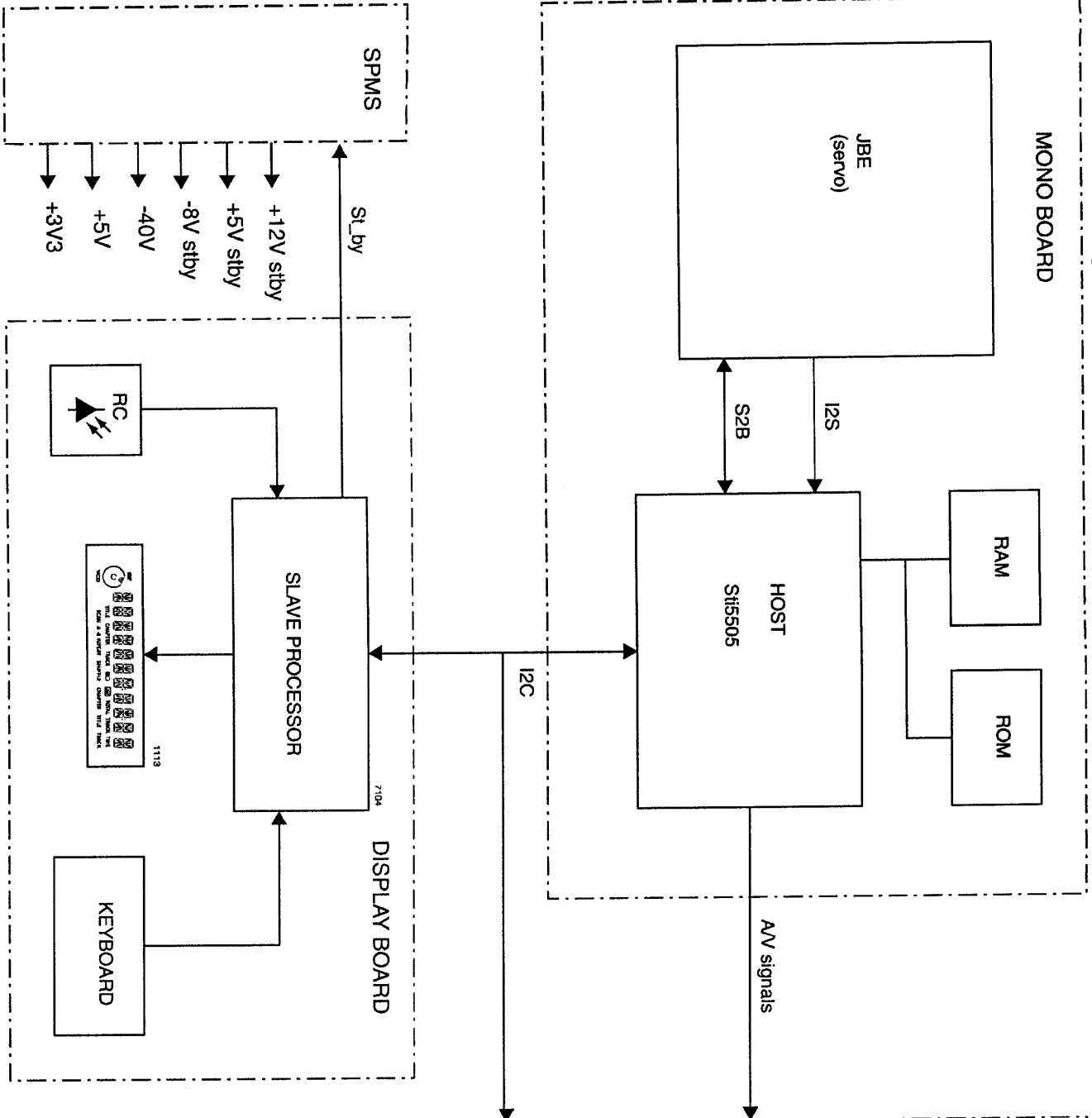
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CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

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DVD 711/751 block diagram



MONOBOARD MICROPROCESSOR AND DECODER BLOCK DIAGRAM

DIAGRAM 5.
UP & DECODER PART

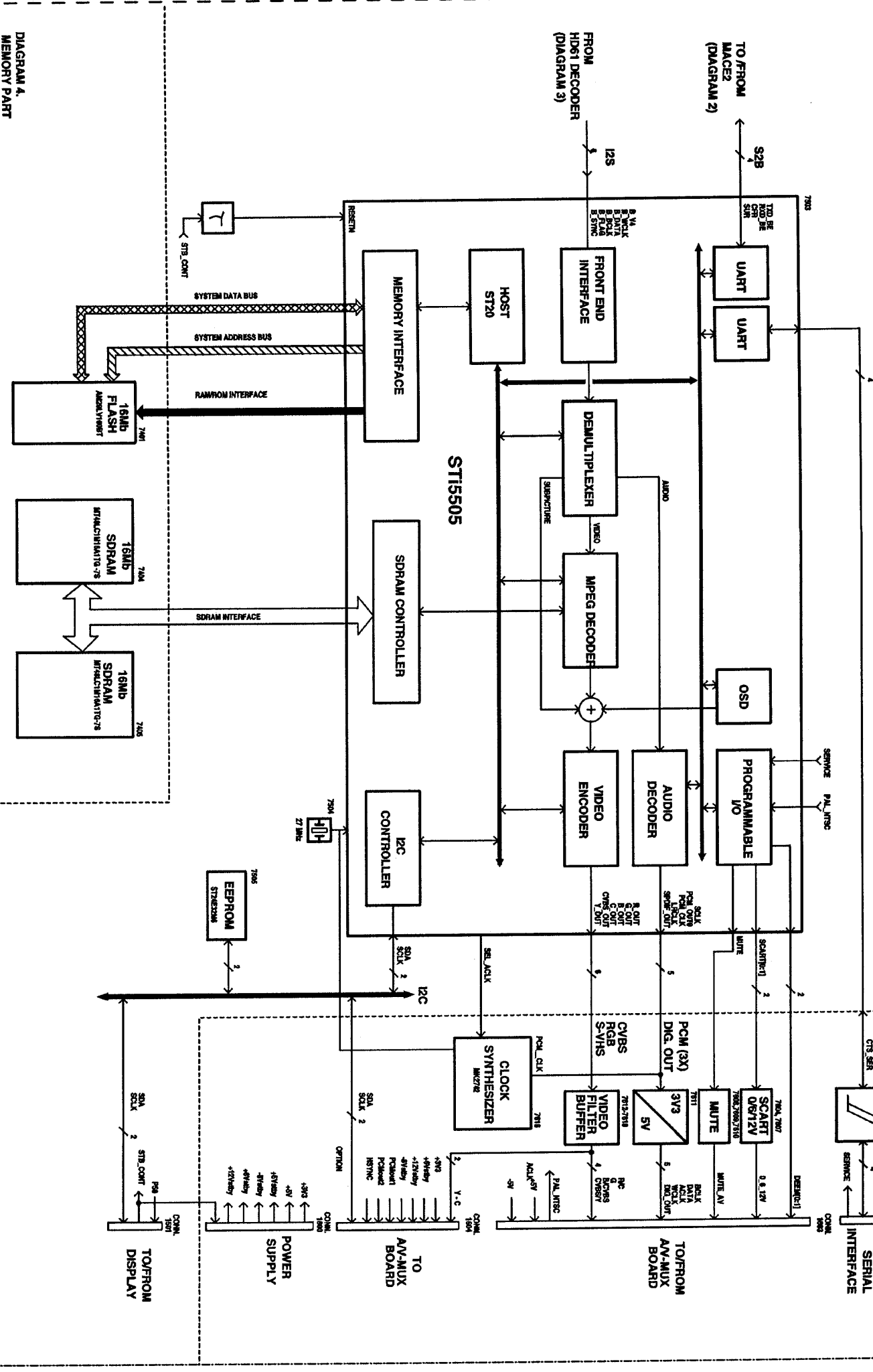


DIAGRAM 6. VIDEO/AUDIO OUTPUT PART

DIAGRAM 4.
MEMORY PART

Philips Consumer Electronics

Technical Service Data

Service Solutions Group
Technical Publications Dept.
P.O. Box 555
401 East Old Andrew Johnson Hwy.
Jefferson City, TN 37760

Manual 1960

Model no.: 105E11

First Publish: 7-14-2000

Rev. Date: 10-2-2000

Print Date: 5/15/2001

Parts List

REFER TO SAFETY GUIDELINES

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MECHANICAL

| | | | |
|------------------------|------|-----|-------|
| MECHANICAL | | | |
| 1 VAL3000 | 9305 | 023 | 61001 |
| 3 SUSPENSION | 4822 | 404 | 10982 |
| 4 SUSPENSION | 4822 | 404 | 10982 |
| 5 SUSPENSION | 4822 | 404 | 10982 |
| 6 SUSPENSION | 4822 | 404 | 10982 |

FRONT PCB

| | | | |
|-------------------------------------|------|-----|-------|
| FRONT PCB | | | |
| 2 FTD HOLDER DVD711 | 3139 | 244 | 00440 |
| 1100 SWITCH | 4822 | 276 | 13775 |
| 1101 SWITCH | 4822 | 276 | 13775 |
| 1102 SWITCH | 4822 | 276 | 13775 |
| 1106 SWITCH | 4822 | 276 | 13775 |
| 1107 SWITCH | 4822 | 276 | 13775 |
| 1108 SWITCH | 4822 | 276 | 13775 |
| 1109 SWITCH | 4822 | 276 | 13775 |
| 1110 RES CER 8MHZ CSTS*MHz 03 | 2422 | 540 | 98423 |
| 1113 VFD 14-MT-27GNK 135*29 (FTBO)B | 2722 | 171 | 07172 |
| 1120 POWER SWITCH SPEC 121100 | 8239 | 210 | 52480 |
| 2102 100pF 5% 50V | 5322 | 122 | 32531 |
| 2103 100pF 5% 50V | 5322 | 122 | 32531 |
| 2105 50V 33nF PM5 | 4822 | 126 | 12105 |
| 2106 10uF 20% 63V | 4822 | 124 | 40248 |
| 2107 50V 33nF PM5 | 4822 | 126 | 12105 |
| 2108 50V 33nF PM5 | 4822 | 126 | 12105 |
| 2109 50V 33nF PM5 | 4822 | 126 | 12105 |
| 2110 50V 33nF PM5 | 4822 | 126 | 12105 |
| 2111 50V 33nF PM5 | 4822 | 126 | 12105 |
| 2114 22pF 5% 50V | 5322 | 122 | 32658 |
| 2115 22pF 5% 50V | 5322 | 122 | 32658 |
| 2116 50V 33nF PM5 | 4822 | 126 | 12105 |
| 2117 10uF 20% 63V | 4822 | 124 | 40248 |
| 2122 50V 33nF PM5 | 4822 | 126 | 12105 |
| 2123 10uF 20% 16V | 4822 | 124 | 11947 |
| 2124 EL 35V 22uF | 3198 | 028 | 42290 |
| 2125 22pF 5% 50V | 5322 | 122 | 32658 |
| 2126 10uF 20% 63V | 4822 | 124 | 40248 |
| 2128 1nF 10% 63V | 5322 | 122 | 31647 |
| 2129 EL 5MM 35V 22uF PM20 COL A | 3198 | 028 | 42290 |
| 2130 EL 5MM 35V 22uF PM20 COL A | 3198 | 028 | 42290 |
| 2201 50V 33nF PM5 | 4822 | 126 | 12105 |
| 2211 100pF 5% 50V | 5322 | 122 | 32531 |
| 3103 82k 1% 0.1W | 4822 | 117 | 11149 |
| 3105 0 ohm jumper (0805) | 4822 | 051 | 20008 |
| 3107 0 ohm jumper (0805) | 4822 | 051 | 20008 |
| 3108 82k 1% 0.1W | 4822 | 117 | 11149 |
| 3109 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3110 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3111 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3112 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3113 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3114 10 ohm 5% 0.1W | 4822 | 051 | 20109 |
| 3115 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3116 82k 1% 0.1W | 4822 | 117 | 11149 |
| 3117 4.7 ohm 5% | 4822 | 117 | 11152 |
| 3118 10k 1% 0.1W | 4822 | 117 | 10833 |
| 3119 10k 1% 0.1W | 4822 | 117 | 10833 |
| 3120 470 ohm 5% 0.1W | 4822 | 051 | 20471 |
| 3121 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3122 10 ohm 5% 0.1W | 4822 | 051 | 20109 |
| 3123 10k 1% 0.1W | 4822 | 117 | 10833 |
| 3125 10 ohm 5% 0.1W | 4822 | 051 | 20109 |
| 3130 10 ohm 5% 0.1W | 4822 | 051 | 20109 |
| 3131 4.7 ohm 5% | 4822 | 117 | 11152 |
| 3132 330 ohm 1% RC12H 0805 1.25W. | 4822 | 117 | 13577 |
| 3133 10 ohm 5% 0.1W | 4822 | 051 | 20109 |
| 3134 330 ohm 1% RC12H 0805 1.25W. | 4822 | 117 | 13577 |
| 3135 220 ohm 1% 0.1W | 4822 | 117 | 11503 |
| 3136 1k 2% 0.25W | 4822 | 051 | 10102 |
| 3137 10k 1% 0.1W | 4822 | 117 | 10833 |
| 3138 470 ohm 5% 0.1W | 4822 | 051 | 20471 |
| 3139 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3140 10k 1% 0.1W | 4822 | 117 | 10833 |
| 3142 330 ohm 1% RC12H 0805 1.25W. | 4822 | 117 | 13577 |
| 3143 10k 1% 0.1W | 4822 | 117 | 10833 |
| 3144 100k 1% 0.1W | 4822 | 117 | 10833 |
| 3145 10k 1% 0.1W | 4822 | 117 | 10833 |
| 3151 100 ohm 5% 0.1W | 4822 | 051 | 20101 |
| 6101 BZX284-C8V2 | 4822 | 130 | 11666 |
| 6102 BZX284-C10 | 4822 | 130 | 10794 |
| 6104 BAS216 | 4822 | 130 | 83757 |
| 6200 LTL-16KPE-P | 4822 | 130 | 82978 |
| 7100 BC847B | 4822 | 130 | 60511 |
| 7102 BC847B | 4822 | 130 | 60511 |
| 7103 BC847B | 4822 | 130 | 60511 |
| 7104 ROM TMP87CH74 | 3104 | 123 | 94761 |
| 7105 BC337 | 4822 | 130 | 40855 |

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|----------------------------|------|-----|-------|
| 7106 BC327 | 4822 | 130 | 40854 |
| 7107 BC847B | 4822 | 130 | 60511 |
| 7108 BC847B | 4822 | 130 | 60511 |
| 7109 BC856B | 4822 | 130 | 60373 |
| 7110 TSOP1736SB1 | 4822 | 212 | 30842 |
| 7112 MC79L24ACP | 4822 | 209 | 31257 |

AV PCB

| | | | |
|---------------------------------------------|------|-----|-------|
| AV PCB | | | |
| 1002 CON BM CINCH H 6P F RDWHYE B | 2422 | 026 | 05047 |
| 1003 4P, MDIN | 4822 | 267 | 10994 |
| 1004 CON BM V 22P F 1.00 FFC 0.3 R. | 2422 | 025 | 16526 |
| 1005 S1D | 4822 | 267 | 31729 |
| 1006 CON BM CINCH H 3P F. | 2422 | 026 | 05049 |
| 1007 CON BM V 16P F 1.00 FFC 0.3 R. | 2422 | 025 | 16525 |
| 2000 10uF 20% 35V | 3198 | 028 | 41090 |
| 2001 100nF 50V 20% | 4822 | 126 | 13838 |
| 2002 47pF 1% 63V | 4822 | 126 | 13692 |
| 2004 47pF 1% 63V | 4822 | 124 | 41796 |
| 2006 22uF 20% 16V | 4822 | 124 | 23432 |
| 2007 100uF 20% 10V | 4822 | 124 | 81286 |
| 2029 47uF 20% 16V | 4822 | 126 | 13482 |
| 2030 470nF 80/20% 16V | 4822 | 126 | 13482 |
| 2032 470nF 80/20% 16V | 4822 | 122 | 33575 |
| 2033 220pF 5% 63V CASE. | 4822 | 124 | 41643 |
| 2036 100uF 20% 16V | 4822 | 124 | 41584 |
| 2038 100uF 20% 10V | 4822 | 124 | 40181 |
| 2039 220uF 20% 10V | 4822 | 124 | 41643 |
| 2040 100uF 20% 16V | 4822 | 124 | 41643 |
| 2041 100uF 20% 16V | 5322 | 122 | 32654 |
| 2100 22nF 10% 63V | 5322 | 122 | 32531 |
| 2101 100pF 5% 50V | 5322 | 122 | 31647 |
| 2104 1nF 10% 63V | 5322 | 122 | 32531 |
| 2106 100pF 5% 50V | 5322 | 122 | 32531 |
| 2107 100pF 5% 50V | 5322 | 122 | 32654 |
| 2108 22nF 10% 63V | 4822 | 126 | 13838 |
| 2109 100nF 50V 20% | 4822 | 124 | 81286 |
| 2110 47uF 20% 16V | 5322 | 122 | 31647 |
| 2113 1nF 10% 63V | 5322 | 122 | 32531 |
| 2115 100pF 5% 50V | 5322 | 122 | 31647 |
| 2119 1nF 10% 63V | 5322 | 122 | 31647 |
| 2121 1nF 10% 63V | 4822 | 122 | 33575 |
| 2123 220pF 5% 63V CASE. | 4822 | 126 | 14585 |
| 2124 100nF 10% 50V | 5322 | 122 | 32654 |
| 2125 22nF 10% 63V | 5322 | 122 | 32654 |
| 2126 22nF 10% 63V | 5322 | 122 | 32654 |
| 2130 22nF 10% 63V | 5322 | 122 | 32654 |
| 2131 22nF 10% 63V | 4822 | 124 | 22339 |
| 2132 100UE 16V | 4822 | 124 | 22339 |
| 2133 100UE 16V | 4822 | 124 | 11947 |
| 2134 10uF 20% 16V | 4822 | 051 | 20101 |
| 3000 100 ohm 5% 0.1W | 4822 | 117 | 12521 |
| 3001 68 ohm 1% 0.1W | 4822 | 051 | 20008 |
| 3002 0 ohm jumper (0805) | 4822 | 051 | 20008 |
| 3003 0 ohm jumper (0805) | 4822 | 051 | 20008 |
| 3004 0 ohm jumper (0805) | 4822 | 051 | 20008 |
| 3005 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3006 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3007 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3008 10k 1% 0.1W | 4822 | 117 | 10833 |
| 3009 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3010 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3011 4k7 5% 0.1W | 4822 | 051 | 20472 |
| 3012 4.7 ohm 5% | 4822 | 117 | 11152 |
| 3014 100 ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3015 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3016 100 ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3017 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3036 2k2 1% 0.1W | 4822 | 117 | 11449 |
| 3038 22k 5% 0.1W | 4822 | 051 | 20223 |
| 3039 22k 5% 0.1W | 4822 | 051 | 20223 |
| 3040 15k 1% 0.1W | 4822 | 116 | 83933 |
| 3041 8k2 5% 0.1W | 4822 | 051 | 20822 |
| 3042 0 ohm jumper (0805) | 4822 | 051 | 20008 |
| 3043 270 ohm 1% 0.1W | 4822 | 117 | 11504 |
| 3044 10k 1% 0.1W | 4822 | 117 | 10833 |
| 3045 100 ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3046 100 ohm 5% 0.1W | 4822 | 117 | 11507 |
| 3047 6k8 1% 0.1W | 4822 | 117 | 11454 |
| 3048 820 ohm 1% 0.1W | 4822 | 117 | 11927 |
| 3049 75 ohm 1% 0.1W | 4822 | 051 | 20471 |
| 3050 470 ohm 5% 0.1W | 4822 | 051 | 20472 |
| 3051 4k7 5% 0.1W | 4822 | 117 | 10361 |
| 3052 680 ohm 1% 0.1W | 4822 | 051 | 20008 |
| 3054 0 ohm jumper (0805) | 4822 | 051 | 20008 |
| 3055 0 ohm jumper (0805) | 4822 | 117 | 11504 |
| 3056 270 ohm 1% 0.1W | 4822 | 117 | 11152 |
| 3057 4.7 ohm 5% | 4822 | 051 | 20101 |
| 3058 100 ohm 5% 0.1W | 4822 | 051 | 20101 |

S = Safety Part Be sure to use exact replacement part.

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|------|------------------------------|----------------|------|--------------------------------|----------------|
| 2127 | 22NF 10% X7R 25V 0603 | 4822 126 14494 | 2531 | ELCAP SM 35V 4U7 PM20 COL R. | 3198 030 74780 |
| 2128 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2532 | 100PF 2%NPO 63V. | 4822 122 31765 |
| 2129 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2533 | 100PF 2%NPO 63V. | 4822 122 31765 |
| 2130 | 180PF 5% 50V 0603 NPO. | 4822 126 14508 | 2600 | 22NF 10% X7R 25V 0603 | 4822 126 14494 |
| 2132 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2601 | CER2 0603 X7R 50V 1N5 COL R. | 4822 126 14247 |
| 2141 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2602 | CER2 0603 X7R 50V 1N5 COL R. | 4822 126 14247 |
| 2144 | 10PF10%NPO 50V | 4822 122 33741 | 2603 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 |
| 2146 | 22PF 5%NPO 50V | 4822 122 33761 | 2604 | 100UF 20% 16V. | 4822 124 12095 |
| 2147 | 22PF 5%NPO 50V | 4822 122 33761 | 2605 | 22NF 10% X7R 25V 0603 | 4822 126 14494 |
| 2148 | 15PF 5%NPO 50V | 4822 122 33752 | 2606 | 100UF 20% 16V. | 4822 124 12095 |
| 2149 | 15PF 5%NPO 50V | 4822 122 33752 | 2607 | 100UF 20% 16V. | 4822 124 12095 |
| 2150 | 15PF 5%NPO 50V | 4822 122 33752 | 2608 | 10UF 16V | 4822 124 23002 |
| 2151 | 15PF 5%NPO 50V | 4822 122 33752 | 2609 | 47UF 16V | 4822 124 80151 |
| 2152 | 220NF +80-20% 16V. | 4822 126 13879 | 2610 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 |
| 2153 | 22PF 5%NPO 50V | 4822 122 33761 | 2611 | 100UF 20% 16V. | 4822 124 12095 |
| 2200 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2614 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2201 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2615 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2202 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2616 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2203 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2617 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2204 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2618 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 |
| 2205 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2619 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 |
| 2206 | 33N 16V X7R 0603 | 4822 126 14549 | 2620 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2207 | 1NF 10% X7R 50V 0603 | 5322 126 11578 | 2621 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2208 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2622 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2209 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2623 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2210 | 1NF 10% X7R 50V 0603 | 5322 126 11578 | 2624 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2212 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2625 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2213 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 2626 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2214 | 22NF 10% X7R 25V 0603 | 4822 126 14494 | 2627 | 68PF 5% NPO 63V CASE 0603. | 4822 126 13956 |
| 2215 | 22UF 6.3V. | 4822 124 23237 | 2632 | 100UF 20% 16V. | 4822 124 12095 |
| 2216 | 1NF 10% X7R 50V 0603 | 5322 126 11578 | 2633 | 100UF 20% 16V. | 4822 124 12095 |
| 2300 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3100 | 4R7 5% | 4822 117 11152 |
| 2301 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3101 | 10K00 5% 0,062W. | 4822 051 30103 |
| 2302 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3103 | 2R20 5% 0,1W | 4822 051 20228 |
| 2303 | 47UF20% 6.3V | 4822 124 80349 | 3104 | 2R20 5% 0,1W | 4822 051 20228 |
| 2304 | 22NF 10% X7R 25V 0603 | 4822 126 14494 | 3105 | 5K6 5% 0,063W 0603 RC21 RST SM | 4822 051 30562 |
| 2305 | 22NF 10% X7R 25V 0603 | 4822 126 14494 | 3106 | 2R20 5% 0,1W | 4822 051 20228 |
| 2306 | 10UF 16V | 4822 124 23002 | 3107 | 2R20 5% 0,1W | 4822 051 20228 |
| 2307 | 22NF 10% X7R 25V 0603 | 4822 126 14494 | 3110 | 68R000 5% 0,062W | 4822 051 30681 |
| 2309 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3113 | RST SM 0603 JUMP. 0R05 | 3198 021 90030 |
| 2310 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3114 | 27K00 5% 0,062W. | 4822 051 30273 |
| 2314 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3116 | 470R00 5% 0,062W | 4822 051 30471 |
| 2315 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3117 | 1R 5% 0,062W CASE0603. | 4822 117 12917 |
| 2316 | 15PF 5%NPO 50V | 4822 122 33752 | 3118 | 470R00 5% 0,062W | 4822 051 30471 |
| 2404 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3119 | 100R00 5% 0,062W | 4822 051 30101 |
| 2405 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3120 | 22K00 5% 0,062W. | 4822 051 30223 |
| 2406 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3121 | RST SM 0805 RC12H 91R PM1 R. | 2322 734 69109 |
| 2407 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3122 | 1R 5%. | 4822 117 11151 |
| 2410 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3125 | 2R2 5% 0603. | 4822 117 13613 |
| 2411 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3126 | 2R2 5% 0603. | 4822 117 13613 |
| 2412 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3127 | 2R20 5% 0,1W | 4822 051 20228 |
| 2413 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3128 | 2R20 5% 0,1W | 4822 051 20228 |
| 2414 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3129 | 47R00 5% 0,062W. | 4822 051 30479 |
| 2415 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3130 | RST SM 0603 JUMP. 0R05 | 3198 021 90030 |
| 2416 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3131 | 2R20 5% 0,1W | 4822 051 20228 |
| 2417 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3132 | 2R20 5% 0,1W | 4822 051 20228 |
| 2418 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3134 | 12K 1% 0,1W. | 4822 117 11383 |
| 2419 | 100UF 20% 16V. | 4822 124 12095 | 3135 | 12K00 5% 0,062W. | 4822 051 30123 |
| 2420 | 100UF 20% 16V. | 4822 124 12095 | 3136 | 10K00 5% 0,062W. | 4822 051 30103 |
| 2500 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3137 | 10K00 5% 0,062W. | 4822 051 30103 |
| 2502 | ELCAP SM 35V 4U7 PM20 COL R. | 3198 030 74780 | 3138 | 12K00 5% 0,062W. | 4822 051 30123 |
| 2503 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3139 | 100R00 5% 0,062W | 4822 051 30101 |
| 2504 | 100PF 2%NPO 63V. | 4822 122 31765 | 3140 | 4R7 5% | 4822 117 11152 |
| 2505 | 22NF 10% X7R 25V 0603 | 4822 126 14494 | 3141 | 22K00 5% 0,062W. | 4822 051 30223 |
| 2506 | 10UF 16V | 4822 124 23002 | 3142 | 100R00 5% 0,062W | 4822 051 30101 |
| 2507 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3143 | 12K00 5% 0,062W. | 4822 051 30123 |
| 2508 | 3,3NF10%X7R 63V. | 5322 126 11579 | 3144 | RST SM 0805 RC12H 91R PM1 R. | 2322 734 69109 |
| 2509 | CER1 0603 NPO 50V 330P COL R | 4822 126 14241 | 3145 | 100R00 5% 0,062W | 4822 051 30101 |
| 2510 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3146 | 10K00 5% 0,062W. | 4822 051 30103 |
| 2511 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3148 | 100R00 5% 0,062W | 4822 051 30101 |
| 2512 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3149 | 10K00 5% 0,062W. | 4822 051 30103 |
| 2513 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3150 | 12K00 5% 0,062W. | 4822 051 30123 |
| 2514 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3151 | 22K00 5% 0,062W. | 4822 051 30223 |
| 2515 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3152 | 2R2 5% 0603. | 4822 117 13613 |
| 2516 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3153 | 2R2 5% 0603. | 4822 117 13613 |
| 2517 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3154 | 22R 5% 0,062W. | 4822 117 12139 |
| 2518 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3155 | 100R00 5% 0,062W | 4822 051 30101 |
| 2519 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3157 | 39K00 5% 0,062W. | 4822 051 30393 |
| 2520 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3158 | 270R00 5% 0,062W | 4822 051 30271 |
| 2521 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3159 | 100R00 5% 0,062W | 4822 051 30101 |
| 2522 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3160 | 27K00 5% 0,062W. | 4822 051 30273 |
| 2523 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3161 | 270R00 5% 0,062W | 4822 051 30271 |
| 2524 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3162 | 270R00 5% 0,062W | 4822 051 30271 |
| 2525 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3163 | 270R00 5% 0,062W | 4822 051 30271 |
| 2526 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3164 | 330R00 5% 0,062W | 4822 051 30331 |
| 2527 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3165 | RST SM 0603 JUMP. 0R05 | 3198 021 90030 |
| 2528 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3166 | 2R2 5% 0603. | 4822 117 13613 |
| 2529 | 100NF 10% X7R 16V 0603 CER2. | 4822 126 14305 | 3167 | 100K 1% 0603 0.62W | 4822 117 13632 |
| 2530 | ELCAP SM 35V 4U7 PM20 COL R. | 3198 030 74780 | 3168 | 10K00 5% 0,062W. | 4822 051 30103 |

| | | | | | | | | | |
|------|--------------------------------|------|-----|-------|------|--------------------------------|------|-----|-------|
| 3169 | 1R 5% | 4822 | 117 | 11151 | 3504 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3170 | 220R00 5% 0,062W | 4822 | 051 | 30221 | 3505 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3171 | 470K00 5% 0,062W | 4822 | 051 | 30474 | 3506 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3172 | 4R7 5% | 4822 | 117 | 11152 | 3507 | 4K70 5% 0,062W | 4822 | 051 | 30472 |
| 3173 | 100R00 5% 0,062W | 4822 | 051 | 30101 | 3508 | 68R 5% 0,063W 0603 RC21 RST SM | 4822 | 051 | 30689 |
| 3174 | 22K00 5% 0,062W | 4822 | 051 | 30223 | 3509 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3175 | 22K00 5% 0,062W | 4822 | 051 | 30223 | 3511 | 3K30 5% 0,062W | 4822 | 051 | 30332 |
| 3176 | 100K 1% 0603 0.62W | 4822 | 117 | 13632 | 3512 | 3K30 5% 0,062W | 4822 | 051 | 30332 |
| 3178 | 27K00 5% 0,062W | 4822 | 051 | 30273 | 3513 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3179 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | 3514 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3180 | 22K00 5% 0,062W | 4822 | 051 | 30223 | 3515 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3181 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | 3516 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3182 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | 3517 | 3K30 5% 0,062W | 4822 | 051 | 30332 |
| 3184 | 8K2 1% 0.063W 0603 | 4822 | 117 | 12902 | 3519 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3185 | 5K6 5% 0,063W 0603 RC21 RST SM | 4822 | 051 | 30562 | 3520 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3187 | 330R00 5% 0,062W | 4822 | 051 | 30331 | 3521 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3194 | 47R00 5% 0,062W | 4822 | 051 | 30479 | 3522 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3199 | 100R00 5% 0,062W | 4822 | 051 | 30101 | 3523 | 3K30 5% 0,062W | 4822 | 051 | 30332 |
| 3200 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3524 | 68R 5% 0,063W 0603 RC21 RST SM | 4822 | 051 | 30689 |
| 3201 | 2R2 1206 5% FUSE | 4822 | 117 | 11748 | 3525 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3202 | 2R2 1206 5% FUSE | 4822 | 117 | 11748 | 3526 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3203 | 1M00 5% 0,062W | 4822 | 051 | 30105 | 3527 | 10R00 5% 0,062W | 4822 | 051 | 30109 |
| 3204 | 330R00 5% 0,062W | 4822 | 051 | 30331 | 3528 | 10R00 5% 0,062W | 4822 | 051 | 30109 |
| 3205 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3529 | 10R00 5% 0,062W | 4822 | 051 | 30109 |
| 3206 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3530 | 10R00 5% 0,062W | 4822 | 051 | 30109 |
| 3208 | 2K70 5% 0,062W | 4822 | 051 | 30272 | 3531 | 10R00 5% 0,062W | 4822 | 051 | 30109 |
| 3209 | 4K70 5% 0,062W | 4822 | 051 | 30472 | 3532 | 10R00 5% 0,062W | 4822 | 051 | 30109 |
| 3210 | 3K9 5% 0.063W 0603 | 4822 | 051 | 30392 | 3533 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3211 | 4K70 5% 0,062W | 4822 | 051 | 30472 | 3534 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3212 | 4R7 5% | 4822 | 117 | 11152 | 3535 | 15K00 5% 0,062W | 4822 | 051 | 30153 |
| 3213 | 4R7 5% | 4822 | 117 | 11152 | 3536 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3214 | 3K9 5% 0.063W 0603 | 4822 | 051 | 30392 | 3537 | 330R00 5% 0,062W | 4822 | 051 | 30331 |
| 3215 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3538 | 680R00 5% 0,062W | 4822 | 051 | 30681 |
| 3216 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | 3539 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3218 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | 3541 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3219 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3542 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3220 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3545 | 220R00 5% 0,062W | 4822 | 051 | 30221 |
| 3221 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3605 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3222 | 11K 1% 0,1W | 4822 | 117 | 11949 | 3606 | 47K 1% 0.063W 0603 | 4822 | 117 | 12925 |
| 3223 | 11K 1% 0,1W | 4822 | 117 | 11949 | 3607 | 100K 1% 0603 0.62W | 4822 | 117 | 13632 |
| 3224 | 150R00 5% 0,062W | 4822 | 051 | 30151 | 3608 | 100K 1% 0603 0.62W | 4822 | 117 | 13632 |
| 3225 | 270K00 5% 0,1W | 4822 | 051 | 20274 | 3609 | 100K 1% 0603 0.62W | 4822 | 117 | 13632 |
| 3226 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3610 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3227 | 4K70 5% 0,062W | 4822 | 051 | 30472 | 3611 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3228 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3612 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3229 | 12K00 5% 0,062W | 4822 | 051 | 30123 | 3613 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3230 | 4K70 5% 0,062W | 4822 | 051 | 30472 | 3614 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3231 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3615 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3232 | 2R2 5% 0603 | 4822 | 117 | 13613 | 3616 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3234 | 8K2 1% 0.063W 0603 | 4822 | 117 | 12902 | 3618 | 22K00 5% 0,062W | 4822 | 051 | 30223 |
| 3235 | 100K 1% 0603 0.62W | 4822 | 117 | 13632 | 3619 | 22K00 5% 0,062W | 4822 | 051 | 30223 |
| 3236 | 4K70 5% 0,062W | 4822 | 051 | 30472 | 3620 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3300 | 4R7 5% | 4822 | 117 | 11152 | 3621 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3301 | 1M00 5% 0,062W | 4822 | 051 | 30105 | 3622 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3302 | 220R00 5% 0,062W | 4822 | 051 | 30221 | 3623 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3304 | 2K70 5% 0,062W | 4822 | 051 | 30272 | 3624 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3305 | 2K70 5% 0,062W | 4822 | 051 | 30272 | 3625 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3306 | 1K8 1% 0.063W 0603 | 4822 | 117 | 12903 | 3626 | 1K00 5% 0,062W | 4822 | 051 | 30102 |
| 3309 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3627 | 470R00 5% 0,062W | 4822 | 051 | 30471 |
| 3310 | 22K00 5% 0,062W | 4822 | 051 | 30223 | 3628 | 470R00 5% 0,062W | 4822 | 051 | 30471 |
| 3311 | 22K00 5% 0,062W | 4822 | 051 | 30223 | 3629 | 4K70 5% 0,062W | 4822 | 051 | 30472 |
| 3312 | 4K70 5% 0,062W | 4822 | 051 | 30472 | 3630 | 100R00 5% 0,062W | 4822 | 051 | 30101 |
| 3313 | 4K70 5% 0,062W | 4822 | 051 | 30472 | 3631 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3316 | 1R00 5% 0,1W | 4822 | 051 | 20108 | 3632 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3317 | 1R00 5% 0,1W | 4822 | 051 | 20108 | 3633 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3318 | 4K70 5% 0,062W | 4822 | 051 | 30472 | 3635 | 6K80 5% 0,062W | 4822 | 051 | 30682 |
| 3319 | 47R00 5% 0,062W | 4822 | 051 | 30479 | 3636 | 6K80 5% 0,062W | 4822 | 051 | 30682 |
| 3320 | 4K70 5% 0,062W | 4822 | 051 | 30472 | 3637 | 3K30 5% 0,062W | 4822 | 051 | 30332 |
| 3321 | 6K80 5% 0,062W | 4822 | 051 | 30682 | 3639 | 68R 5% 0,063W 0603 RC21 RST SM | 4822 | 051 | 30689 |
| 3322 | 4K70 1% 0,1W | 4822 | 117 | 11145 | 3640 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3323 | 4K70 1% 0,1W | 4822 | 117 | 11145 | 3641 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3324 | 100K 1% 0603 0.62W | 4822 | 117 | 13632 | 3642 | 10K00 5% 0,062W | 4822 | 051 | 30103 |
| 3325 | 6K80 5% 0,062W | 4822 | 051 | 30682 | 3643 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3326 | 47R00 5% 0,062W | 4822 | 051 | 30479 | 3644 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3327 | 6K80 5% 0,062W | 4822 | 051 | 30682 | 3646 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3328 | 22K00 5% 0,062W | 4822 | 051 | 30223 | 3647 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3329 | 22K00 5% 0,062W | 4822 | 051 | 30223 | 3648 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3330 | 22K00 5% 0,062W | 4822 | 051 | 30223 | 3650 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3404 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3651 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3405 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | 3653 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3408 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | 3654 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3409 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3655 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3411 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | 3656 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3412 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | 3657 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3413 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3658 | 1K00 5% 0,062W | 4822 | 051 | 30102 |
| 3500 | 3K30 5% 0,062W | 4822 | 051 | 30332 | 3659 | 1K00 5% 0,062W | 4822 | 051 | 30102 |
| 3501 | 3K30 5% 0,062W | 4822 | 051 | 30332 | 3660 | 1K00 5% 0,062W | 4822 | 051 | 30102 |
| 3502 | 22K00 5% 0,062W | 4822 | 051 | 30223 | 3661 | RST SM 0603 RC22H 430R PM1 R | 2322 | 704 | 64301 |
| 3503 | 10K00 5% 0,062W | 4822 | 051 | 30103 | 3662 | 1K00 5% 0,062W | 4822 | 051 | 30102 |

| | | | | | | | | | |
|------|--------------------------------|------|-----|-------|------|------------------------|------|-----|-------|
| 3663 | 1K00 5% 0,062W | 4822 | 051 | 30102 | 9519 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3664 | RST SM 0603 RC22H 430R PMI R | 2322 | 704 | 64301 | 9520 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 |
| 3665 | 22R 5% 0,062W | 4822 | 117 | 12139 | | | | | |
| 3667 | 330R00 5% 0,062W | 4822 | 051 | 30331 | | | | | |
| 5200 | BLM31P500SPT | 4822 | 157 | 11717 | | | | | |
| 5300 | BLM31P500SPT | 4822 | 157 | 11717 | | | | | |
| 5301 | BLM31P500SPT | 4822 | 157 | 11717 | | | | | |
| 5400 | BLM11P600SPT | 4822 | 157 | 11499 | | | | | |
| 5401 | BLM11P600SPT | 4822 | 157 | 11499 | | | | | |
| 5501 | 2,2UH (NL322522T-2R2J) | 4822 | 157 | 70299 | | | | | |
| 5502 | 2,2UH (NL322522T-2R2J) | 4822 | 157 | 70299 | | | | | |
| 5503 | BLM21A601SPT | 4822 | 157 | 71206 | | | | | |
| 5600 | BLM21A601SPT | 4822 | 157 | 71206 | | | | | |
| 5601 | BLM11P600SPT | 4822 | 157 | 11499 | | | | | |
| 5602 | 22UH (NL322522T-220J) | 4822 | 157 | 70652 | | | | | |
| 5603 | BLM21A601SPT | 4822 | 157 | 71206 | | | | | |
| 5604 | 22UH (NL322522T-220J) | 4822 | 157 | 70652 | | | | | |
| 5605 | 22UH (NL322522T-220J) | 4822 | 157 | 70652 | | | | | |
| 5606 | 22UH (NL322522T-220J) | 4822 | 157 | 70652 | | | | | |
| 5607 | 22UH (NL322522T-220J) | 4822 | 157 | 70652 | | | | | |
| 5608 | 22UH (NL322522T-220J) | 4822 | 157 | 70652 | | | | | |
| 5609 | BLM31P500SPT | 4822 | 157 | 11717 | | | | | |
| 5610 | BLM31P500SPT | 4822 | 157 | 11717 | | | | | |
| 6200 | BAS216 | 4822 | 130 | 83757 | | | | | |
| 6301 | S1D. | 9322 | 128 | 69685 | | | | | |
| 6302 | S1D. | 9322 | 128 | 69685 | | | | | |
| 6303 | S1D. | 9322 | 128 | 69685 | | | | | |
| 6600 | 1PS76SB10. | 4822 | 130 | 11528 | | | | | |
| 7100 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7102 | TZA1023HL. | 9352 | 632 | 76518 | | | | | |
| 7103 | BA5938FM | 4822 | 209 | 17229 | | | | | |
| 7104 | LM833D | 4822 | 209 | 30095 | | | | | |
| 7105 | MC34072D | 4822 | 209 | 32073 | | | | | |
| 7109 | AN78M09. | 4822 | 209 | 15083 | | | | | |
| 7200 | SAAT399HL. | 4822 | 209 | 17231 | | | | | |
| 7201 | SN74HCT573DW | 5322 | 209 | 31276 | | | | | |
| 7202 | FLASH ASSY BASIC ENGINE DVD 2B | 3104 | 123 | 95180 | | | | | |
| 7203 | BC856B | 4822 | 130 | 60373 | | | | | |
| 7304 | BA6856FP | 4822 | 209 | 16877 | | | | | |
| 7310 | CY7C199-15C. | 4822 | 209 | 15899 | | | | | |
| 7311 | IC SM SAA7335HL/E/M2 (PHSE) Y. | 9352 | 637 | 83557 | | | | | |
| 7312 | BC856B | 4822 | 130 | 60373 | | | | | |
| 7315 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7401 | AM29LV160B | 9322 | 132 | 01668 | | | | | |
| 7404 | MT48LC1M16A1TG-6S. | 9322 | 143 | 18668 | | | | | |
| 7405 | MT48LC1M16A1TG-6S. | 9322 | 143 | 18668 | | | | | |
| 7501 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7503 | IC SM STI5505EVB (ST00) Y. | 9322 | 144 | 88671 | | | | | |
| 7504 | 27MHZ 120P FX0-31FT. | 4822 | 242 | 10838 | | | | | |
| 7505 | M24C32-WMNG/PROG | 4822 | 209 | 17377 | | | | | |
| 7600 | PC74HCT14T | 5322 | 209 | 71568 | | | | | |
| 7604 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7605 | LD1117DT33 | 4822 | 209 | 17398 | | | | | |
| 7607 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7608 | BC856B | 4822 | 130 | 60373 | | | | | |
| 7609 | BC856B | 4822 | 130 | 60373 | | | | | |
| 7610 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7611 | 74HCT365D. | 4822 | 209 | 16261 | | | | | |
| 7612 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7613 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7614 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7615 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7616 | MK2742-03S | 4822 | 209 | 16062 | | | | | |
| 7617 | BC847B | 4822 | 130 | 60511 | | | | | |
| 7618 | BC847B | 4822 | 130 | 60511 | | | | | |
| 9100 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9101 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9200 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9202 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9203 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9204 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9205 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9206 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9208 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9209 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9210 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9300 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9301 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9313 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9314 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9501 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9502 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9503 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9504 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9505 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9506 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9516 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9517 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |
| 9518 | RST SM 0603 JUMP. OR05 | 3198 | 021 | 90030 | | | | | |

POWER SUPPLY (PSU 20PS223)

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|--------|------------------------------|------|-----|-------|--|--|--|--|--|
| | POWER SUPPLY (PSU 20PS223) | | | | | | | | |
| 25 | FIX. TRANSISTOR. | 4822 | 492 | 63524 | | | | | |
| S 101 | S1D. | 4822 | 265 | 31015 | | | | | |
| 120 | FUSE HOLDER 2P | 4822 | 265 | 11253 | | | | | |
| S 1120 | 19181 (2,5A) | 4822 | 253 | 30383 | | | | | |
| S 2120 | 275V 220nF 20% | 4822 | 121 | 10512 | | | | | |
| 2121 | C CHM YK 68M 400VM RUBYConF. | 8211 | 248 | 53120 | | | | | |
| 2122 | 33nF 5% 400V | 4822 | 121 | 70141 | | | | | |
| 2127 | 470pF 10% 1KV. | 4822 | 122 | 50116 | | | | | |
| S 2130 | 100pF10%250V | 4822 | 126 | 14572 | | | | | |
| S 2131 | 1nF 20% 250V | 4822 | 126 | 14133 | | | | | |
| 2133 | 10uF 20% 63V | 4822 | 124 | 40248 | | | | | |
| 2134 | EL YK 35V S 47uF PM20 A. | 2020 | 012 | 93111 | | | | | |
| 2141 | 2.2uF 20% 50V. | 4822 | 124 | 22652 | | | | | |
| 2143 | 100nF 10% 50V. | 4822 | 126 | 14585 | | | | | |
| 2145 | 4.7nF 10% 63V. | 5322 | 126 | 10223 | | | | | |
| 2146 | 100nF 10% 50V. | 4822 | 126 | 14585 | | | | | |
| 2150 | 100nF 10% 50V. | 4822 | 126 | 14585 | | | | | |
| 2156 | 63V 330pF PM5. | 5322 | 122 | 31863 | | | | | |
| 2157 | 470pF 10% 50V. | 5322 | 122 | 32268 | | | | | |
| 2202 | 100nF 50V 20%. | 4822 | 126 | 13838 | | | | | |
| 2210 | EL YK 10V S 2200uF PM20 B. | 2020 | 012 | 93728 | | | | | |
| 2230 | 1000uF 10V | 4822 | 124 | 22779 | | | | | |
| 2232 | 100uF 20% 16V. | 4822 | 124 | 81021 | | | | | |
| 2233 | 100uF 20% 16V. | 4822 | 124 | 81021 | | | | | |
| 2234 | 50V 33nF PM5 | 4822 | 126 | 12105 | | | | | |
| 2238 | 100uF 20% 16V. | 4822 | 124 | 81021 | | | | | |
| 2239 | 100uF 20% 16V. | 4822 | 124 | 81021 | | | | | |
| 2240 | 470uF 20% YK 25V | 4822 | 124 | 81147 | | | | | |
| 2250 | 220uF 20% 16V. | 4822 | 124 | 41545 | | | | | |
| 2260 | 22uF 50V | 4822 | 124 | 81151 | | | | | |
| 3105 | 680k 5% 0.5W | 4822 | 053 | 21684 | | | | | |
| 3111 | 22 ohm 5% 0.5W | 4822 | 116 | 52186 | | | | | |
| S 3120 | 1M A/423V 800V | 4822 | 116 | 21217 | | | | | |
| 3121 | 470 ohm 20% 0.5W | 4822 | 117 | 12181 | | | | | |
| 3123 | 39k 5% 0.5W. | 4822 | 116 | 83882 | | | | | |
| 3125 | 10k 1% 0.1W. | 4822 | 117 | 10833 | | | | | |
| 3126 | 4 ohm 7 1% 0.6W. | 4822 | 050 | 24708 | | | | | |
| 3127 | 1 ohm 5% 0.5W. | 4822 | 116 | 80176 | | | | | |
| 3128 | 10hm 5% 0.5W | 4822 | 116 | 80176 | | | | | |
| 3129 | 39k 5% 0.5W. | 4822 | 116 | 83882 | | | | | |
| 3134 | 39k 5% 0.5W. | 4822 | 116 | 83882 | | | | | |
| 3135 | 15 ohm 5% 2W | 4822 | 053 | 11159 | | | | | |
| 3139 | 47 ohm 5% 0.1 W. | 4822 | 051 | 20479 | | | | | |
| 3140 | 33 ohm 5% 0.5W | 4822 | 116 | 52191 | | | | | |
| 3141 | 10k 1% 0.1W. | 4822 | 117 | 10833 | | | | | |
| 3143 | 47k 1 % 0.1 W. | 4822 | 117 | 10834 | | | | | |
| 3145 | 15k 1%0.1W | 48 | | | | | | | |

| | | | | |
|--------|------------------------|------|-----|-------|
| 6141 | UD218B | 4822 | 130 | 11152 |
| 6150 | UD24.7B. | 4822 | 130 | 11148 |
| 6210 | BYW98-200-C1 | 4822 | 130 | 11584 |
| 6230 | BYW98-200-C1 | 4822 | 130 | 11584 |
| 6241 | BYW98-200-C1 | 4822 | 130 | 11584 |
| 6250 | BYD33J | 4822 | 130 | 42606 |
| 6261 | BYD33J | 4822 | 130 | 42606 |
| 7125 | STP3NB60FP | 4822 | 130 | 11417 |
| S 7131 | CQY80NG. | 4822 | 130 | 91451 |
| 7141 | BC557B | 4822 | 130 | 44568 |
| 7145 | UC3842A. | 9322 | 145 | 88682 |
| 7150 | BC547B | 4822 | 130 | 40959 |
| 7201 | TL431CLPST | 4822 | 209 | 81397 |
| 7233 | LM7805CT | 5322 | 209 | 86445 |
| 7235 | BC847. | 4822 | 130 | 42705 |
| 7236 | STP16NE06. | 4822 | 130 | 11578 |
| 7237 | TL431CLPST | 4822 | 209 | 81397 |

Mechanical

| | | | | |
|---|----------------------|------|-----|-------|
| 1 | VAL3000. | 9305 | 023 | 61001 |
| 3 | SUSPENSION | 4822 | 404 | 10982 |
| 4 | SUSPENSION | 4822 | 404 | 10982 |
| 5 | SUSPENSION | 4822 | 404 | 10982 |
| 6 | SUSPENSION | 4822 | 404 | 10982 |

Headphone

| | | | | |
|------|----------------------------|------|-----|-------|
| 1003 | S1D. | 4822 | 267 | 31453 |
| 2200 | 12pF 50V | 4822 | 122 | 33926 |
| 2201 | 100nF 10% 50V. | 4822 | 126 | 14585 |
| 2202 | 100nF 10% 50V. | 4822 | 126 | 14585 |
| 2203 | 100nF 10% 50V. | 4822 | 126 | 14585 |
| 2204 | 1nF 10% 63V. | 5322 | 122 | 31647 |
| 2205 | 12pF 50V | 4822 | 122 | 33926 |
| 2206 | 100nF 10% 50V. | 4822 | 126 | 14585 |
| 2207 | 1nF 10% 63V. | 5322 | 122 | 31647 |
| 2208 | 100uF 20% 25V. | 4822 | 124 | 40207 |
| 2209 | 100uF 20% 25V. | 4822 | 124 | 40207 |
| 2210 | 1nF 10% 63V. | 5322 | 122 | 31647 |
| 3201 | 10kX2 20% 0.025W | 4822 | 101 | 21199 |
| 3206 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3207 | 22ohm 5% 0.1W. | 4822 | 051 | 20229 |
| 3209 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3210 | 22ohm 5% 0.1W. | 4822 | 051 | 20229 |
| 3211 | 4k7 5% 0.1W. | 4822 | 051 | 20472 |
| 3212 | 6k8 1% 0.1W. | 4822 | 117 | 11507 |
| 3214 | 4k7 5% 0.1W. | 4822 | 051 | 20472 |
| 3215 | 6k8 1% 0.1W. | 4822 | 117 | 11507 |
| 3217 | 4k7 5% 0.1W. | 4822 | 051 | 20472 |
| 3218 | 4k7 5% 0.1W. | 4822 | 051 | 20472 |
| 7200 | BC817-25 | 4822 | 130 | 42804 |
| 7201 | BC817-25 | 4822 | 130 | 42804 |
| 7802 | TCA0372DP1 | 4822 | 209 | 62059 |

AV PCB

| | | | | |
|------|----------------------------------------|------|-----|-------|
| 1000 | CON BM V 16P F 1.00 FFC 0.3 R. | 2422 | 025 | 16525 |
| 1001 | CON BM V 22P F 1.00 FFC 0.3 R. | 2422 | 025 | 16526 |
| 1400 | S1D. | 4822 | 267 | 31729 |
| 1401 | CON BM CINCH H 6P F RDWHYE B | 2422 | 026 | 05047 |
| 1402 | CON BM MDIN H 8P F YKF51 B | 2422 | 026 | 05081 |
| 1403 | CON BM CINCH H 3P F. | 2422 | 026 | 05049 |
| 2400 | 22nF 10% 63V | 5322 | 122 | 32654 |
| 2401 | 100pF 5% 50V | 5322 | 122 | 32531 |
| 2402 | 22nF 10% 63V | 5322 | 122 | 32654 |
| 2403 | 100nF 10% 50V. | 4822 | 126 | 14585 |
| 2404 | 47uF 20% 25V | 4822 | 124 | 40433 |
| 2405 | 100pF 5% 50V | 5322 | 122 | 32531 |
| 2406 | 100UE 16V. | 4822 | 124 | 22339 |
| 2407 | 22nF 10% 63V | 5322 | 122 | 32654 |
| 2408 | 22nF 10% 63V | 5322 | 122 | 32654 |
| 2409 | 100pF 5% 50V | 5322 | 122 | 32531 |
| 2410 | 100pF 5% 50V | 5322 | 122 | 32531 |
| 2411 | 22nF 10% 63V | 5322 | 122 | 32654 |
| 2412 | 100UE 16V. | 4822 | 124 | 22339 |
| 2413 | 1nF 5% 50V | 5322 | 126 | 10511 |
| 2415 | 1nF 5% 50V | 5322 | 126 | 10511 |
| 2416 | 1nF 5% 50V | 5322 | 126 | 10511 |
| 2417 | 1nF 5% 50V | 5322 | 126 | 10511 |
| 2418 | 1nF 5% 50V | 5322 | 126 | 10511 |
| 2419 | 1nF 5% 50V | 5322 | 126 | 10511 |
| 2420 | 1nF 5% 50V | 5322 | 126 | 10511 |
| 2421 | 1nF 5% 50V | 5322 | 126 | 10511 |
| 2436 | 220pF 5% 63V CASE. | 4822 | 122 | 33575 |
| 2437 | 220pF 5% 63V CASE. | 4822 | 122 | 33575 |
| 2438 | 47pF 1% 63V. | 4822 | 126 | 13692 |
| 2439 | 10uF 20% 50V | 4822 | 124 | 12255 |
| 2440 | 100nF 10% 50V. | 4822 | 126 | 14585 |

| | | | | |
|------|----------------------------|------|-----|-------|
| 2441 | 47pF 1% 63V. | 4822 | 126 | 13692 |
| 2442 | 100nF 10% 50V. | 4822 | 126 | 14585 |
| 2445 | 22nF 10% 63V | 5322 | 122 | 32654 |
| 2451 | 470nF 80/20% 16V | 4822 | 126 | 13482 |
| 2452 | 100uF 20% 25V. | 4822 | 124 | 40207 |
| 2453 | 100uF 20% 25V. | 4822 | 124 | 40207 |
| 2454 | 470nF 80/20% 16V | 4822 | 126 | 13482 |
| 2457 | 220pF 5% 63V CASE. | 4822 | 122 | 33575 |
| 2458 | 220pF 5% 63V CASE. | 4822 | 122 | 33575 |
| 2459 | 100uF 20% 10V. | 4822 | 124 | 41584 |
| 2461 | 470nF 80/20% 16V | 4822 | 126 | 13482 |
| 2462 | 470nF 80/20% 16V | 4822 | 126 | 13482 |
| 2463 | 470nF 80/20% 16V | 4822 | 126 | 13482 |
| 2464 | 10nF 20% 50V | 4822 | 122 | 33177 |
| 2465 | 10nF 20% 50V | 4822 | 122 | 33177 |
| 2466 | 10nF 20% 50V | 4822 | 122 | 33177 |
| 2467 | 10nF 20% 50V | 4822 | 122 | 33177 |
| 2468 | 10nF 20% 50V | 4822 | 122 | 33177 |
| 2469 | 10nF 20% 50V | 4822 | 122 | 33177 |
| 2470 | 100nF 10% 50V. | 4822 | 126 | 14585 |
| 2471 | 100nF 10% 50V. | 4822 | 126 | 14585 |
| 2472 | 100nF 10% 50V. | 4822 | 126 | 14585 |
| 2473 | 47pF 1% 63V. | 4822 | 126 | 13692 |
| 2474 | 47pF 1% 63V. | 4822 | 126 | 13692 |
| 2475 | 470nF 80/20% 16V | 4822 | 126 | 13482 |
| 2476 | 220nF 10% 16V. | 4822 | 126 | 13561 |
| 2477 | 220nF 10% 16V. | 4822 | 126 | 13561 |
| 2478 | 220nF 10% 16V. | 4822 | 126 | 13561 |
| 2479 | 22nF 10% 63V | 5322 | 122 | 32654 |
| 2480 | 22nF 10% 63V | 5322 | 122 | 32654 |
| 2483 | 220pF 5% 63V CASE. | 4822 | 122 | 33575 |
| 2484 | 220pF 5% 63V CASE. | 4822 | 122 | 33575 |
| 2486 | 47uF 20% 16V | 4822 | 124 | 81286 |
| 2487 | 100uF 20% 10V. | 4822 | 124 | 23432 |
| 2488 | 470nF 80/20% 16V | 4822 | 126 | 13482 |
| 2489 | 10uF 20% 63V | 4822 | 124 | 40248 |
| 2490 | 10uF 20% 63V | 4822 | 124 | 40248 |
| 2491 | 47uF 20% 25V | 4822 | 124 | 40433 |
| 2492 | 10uF 20% 63V | 4822 | 124 | 40248 |
| 2493 | 47uF 20% 25V | 4822 | 124 | 40433 |
| 2494 | 100uF 20% 25V. | 4822 | 124 | 40207 |
| 2495 | 100uF 20% 25V. | 4822 | 124 | 40207 |
| 2499 | 100uF 20% 25V. | 4822 | 124 | 40207 |
| 2502 | 22uF 50V | 4822 | 124 | 81151 |
| 2503 | 100uF 20% 25V. | 4822 | 124 | 40207 |
| 3400 | 2k2 1% 0.1W. | 4822 | 117 | 11449 |
| 3401 | 5k6 5% 0.1W 0805 | 4822 | 051 | 20562 |
| 3402 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3403 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3404 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3405 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3406 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3407 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3408 | 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3411 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3412 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3413 | 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3414 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3415 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3416 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3417 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3418 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3419 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3420 | 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3423 | 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3424 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3425 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3439 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3440 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3441 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3442 | 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3443 | 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3444 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3445 | 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3446 | 2k7 1% 0.1W 0805 | 4822 | 117 | 12955 |
| 3447 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3448 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3449 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3450 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3451 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3452 | 100ohm 5% 0.1W | 4822 | 051 | 20101 |
| 3453 | 68ohm 1% 0.1W. | 4822 | 117 | 12521 |
| 3454 | 10k 1% 0.1W. | 4822 | 117 | 10833 |
| 3455 | 15k 1% 0.1W. | 4822 | 116 | 83933 |
| 3456 | 22k 5% 0.1W. | 4822 | 051 | 20223 |
| 3457 | 22k 5% 0.1W. | 4822 | 051 | 20223 |
| 3458 | 1k 2% 0.25W. | 4822 | 051 | 20223 |
| 3459 | 8k2 5% 0.1W. | 4822 | 051 | 10102 |
| 3460 | 8k2 5% 0.1W. | 4822 | 051 | 20822 |

S = Safety Part Be sure to use exact replacement part.

| | | | |
|----------------------------------------|----------------|---------------------------|----------------|
| 3461 270ohm 1% 0.1W | 4822 117 11504 | 3557 4ohm7 5% | 4822 117 11152 |
| 3462 100ohm 5% 0.1W | 4822 051 20101 | 3558 4k7 5% 0.1W | 4822 051 20472 |
| 3463 6k8 1% 0.1W | 4822 117 11507 | 3559 4k7 5% 0.1W | 4822 051 20472 |
| 3464 820ohm 1% 0.1W | 4822 117 11454 | 3560 2k7 1% 0.1W 0805 | 4822 117 12955 |
| 3465 4k7 5% 0.1W | 4822 051 20472 | 3561 4k7 5% 0.1W | 4822 051 20472 |
| 3466 680ohm 1% 0.1W | 4822 117 10361 | 3562 4k7 5% 0.1W | 4822 051 20472 |
| 3467 100ohm 5% 0.1W | 4822 051 20101 | 3563 2k2 1% 0.1W | 4822 117 11449 |
| 3468 470ohm 5% 0.1W | 4822 051 20471 | 3566 4ohm7 5% | 4822 117 11152 |
| 3469 100ohm 5% 0.1W | 4822 051 20101 | 3567 4ohm7 5% | 4822 117 11152 |
| 3470 270ohm 1% 0.1W | 4822 117 11504 | 3568 0ohm jumper . (0805) | 4822 051 20008 |
| 3471 100ohm 5% 0.1W | 4822 051 20101 | 3572 270ohm 1% 0.1W | 4822 117 11504 |
| 3472 6k8 1% 0.1W | 4822 117 11454 | 3573 100ohm 5% 0.1W | 4822 051 20101 |
| 3473 820ohm 1% 0.1W | 4822 051 20472 | 3574 6k8 1% 0.1W | 4822 117 11507 |
| 3474 4k7 5% 0.1W | 4822 051 20101 | 3575 820ohm 1% 0.1W | 4822 117 11454 |
| 3475 100ohm 5% 0.1W | 4822 117 11449 | 3576 4k7 5% 0.1W | 4822 051 20472 |
| 3476 2k2 1% 0.1W | 4822 117 11927 | 3577 680ohm 1% 0.1W | 4822 117 10361 |
| 3477 75ohm 1% 0.1W | 4822 117 11927 | 3578 100ohm 5% 0.1W | 4822 051 20101 |
| 3478 75ohm 1% 0.1W | 4822 117 11927 | 3579 100ohm 5% 0.1W | 4822 117 11449 |
| 3479 75ohm 1% 0.1W | 4822 051 20471 | 3580 2k2 1% 0.1W | 4822 117 11927 |
| 3480 470ohm 5% 0.1W | 4822 117 11927 | 3581 75ohm 1% 0.1W | 4822 117 11449 |
| 3481 75ohm 1% 0.1W | 4822 051 20101 | 3582 2k2 1% 0.1W | 4822 117 11927 |
| 3482 100ohm 5% 0.1W | 4822 117 11449 | 3583 75ohm 1% 0.1W | 4822 117 11152 |
| 3483 2k2 1% 0.1W | 2120 108 92616 | 3584 4ohm7 5% | 4822 117 11449 |
| 3484 RST SM 0805 ERJ6ohmN 1k2 PM1 | 4822 117 11452 | 3586 2k2 1% 0.1W | 4822 051 20479 |
| 3485 430ohm 1% 0.1W | 2322 734 63309 | 3593 47ohm 5% 0.1W | 4822 051 10008 |
| 3486 RST SM 0805 RC12H 33ohmPM1 R | 2120 108 92619 | 4xxx 0ohm 5% 0.25W (1206) | 4822 051 20008 |
| 3487 RST SM0805 ERJ6ohmN 2k2PM1 | 2120 108 92612 | 4xxx 0ohm 5% 0.25W (0805) | 4822 242 10756 |
| 3488 RST SM 0805 ERJ6ohmN 470ohm PM1 R | 5322 117 12487 | 5000 DSS306-92Y5S221M100 | 4822 242 10756 |
| 3489 1k RC12G 1% 0.125W | 4822 117 11452 | 5001 DSS306-92Y5S221M100 | 4822 242 10756 |
| 3490 1k RC12G 1% 0.125W | 2322 734 63309 | 5002 DSS306-92Y5S221M100 | 4822 242 10756 |
| 3491 430ohm 1% 0.1W | 5322 117 12487 | 5003 DSS306-92Y5S221M100 | 4822 242 10756 |
| 3492 RST SM 0805 RC12H 33ohmPM1 R | 2120 108 92619 | 5004 DSS306-92Y5S221M100 | 4822 157 70601 |
| 3493 1k RC12G 1% 0.125W | 2120 108 92612 | 5400 100uH (920927085A) | 4822 130 11087 |
| 3494 RST SM0805 ERJ6ohmN 2k2PM1 | 2120 108 93474 | 6400 BZX284-C15 | 4822 130 11087 |
| 3495 RST SM 0805 ERJ6ohmN 470ohm PM1 R | 5322 117 12487 | 6401 BZX284-C15 | 4822 130 11087 |
| 3496 RST SM 0805 ERJ6ohmN 750ohm PM1 | 4822 051 20101 | 6402 BZX284-C15 | 4822 130 11087 |
| 3497 1k RC12G 1% 0.125W | 4822 117 11504 | 6403 BZX284-C15 | 4822 130 11087 |
| 3498 100ohm 5% 0.1W | 4822 051 20101 | 6404 BZX284-C15 | 4822 130 83757 |
| 3499 270ohm 1% 0.1W | 4822 051 20101 | 6405 BAS216 | 4822 130 83757 |
| 3500 100ohm 5% 0.1W | 4822 117 11507 | 6406 BAS216 | 4822 130 83757 |
| 3501 6k8 1% 0.1W | 4822 117 11454 | 6407 BAS216 | 4822 130 11087 |
| 3502 820ohm 1% 0.1W | 4822 051 20472 | 6408 BZX284-C15 | 4822 130 83757 |
| 3503 4k7 5% 0.1W | 4822 117 10361 | 6409 BAS216 | 4822 130 11087 |
| 3504 680ohm 1% 0.1W | 4822 051 20101 | 6410 BZX284-C15 | 4822 130 11087 |
| 3505 100ohm 5% 0.1W | 4822 117 11449 | 6412 BZX284-C15 | 4822 130 11087 |
| 3506 2k2 1% 0.1W | 4822 117 11927 | 6413 BZX284-C15 | 4822 130 11087 |
| 3507 75ohm 1% 0.1W | 4822 051 20472 | 7000 BC817-25 | 4822 130 42804 |
| 3509 4k7 5% 0.1W | 4822 051 20223 | 7001 BC817-25 | 4822 130 42804 |
| 3511 22k 5% 0.1W | 4822 051 20223 | 7002 BC817-25 | 4822 130 42804 |
| 3512 22k 5% 0.1W | 4822 051 20223 | 7003 BC817-25 | 4822 130 42804 |
| 3513 22k 5% 0.1W | 4822 051 20223 | 7004 BC817-25 | 4822 130 42804 |
| 3514 22k 5% 0.1W | 4822 117 11927 | 7005 BC817-25 | 4822 130 42804 |
| 3515 75ohm 1% 0.1W | 4822 117 11927 | 7006 BC817-25 | 4822 130 42804 |
| 3516 75ohm 1% 0.1W | 4822 117 11927 | 7007 BC817-25 | 4822 130 42804 |
| 3517 75ohm 1% 0.1W | 4822 051 20562 | 7008 BC817-25 | 4822 130 60511 |
| 3518 5k6 5% 0.1W 0805 | 4822 051 10102 | 7009 BC847B | 4822 130 60511 |
| 3519 1k 2% 0.25W | 4822 117 10833 | 7010 BC847B | 4822 130 60511 |
| 3520 10k 1% 0.1W | 4822 051 20101 | 7011 BC847B | 4822 130 60511 |
| 3521 100ohm 5% 0.1W | 4822 051 20101 | 7012 BC847B | 4822 130 60511 |
| 3522 100ohm 5% 0.1W | 4822 117 11149 | 7013 BC856B | 4822 130 60373 |
| 3523 82k 1% 0.1W | 4822 051 20101 | 7014 BC847B | 4822 130 60511 |
| 3524 100ohm 5% 0.1W | 4822 051 20101 | 7015 BC847B | 4822 130 60511 |
| 3525 100ohm 5% 0.1W | 4822 117 11449 | 7016 BC856B | 4822 130 60511 |
| 3526 100ohm 5% 0.1W | 4822 117 11449 | 7017 BC847B | 4822 130 60511 |
| 3527 2k2 1% 0.1W | 4822 117 11449 | 7018 BC847B | 4822 130 60511 |
| 3528 2k2 1% 0.1W | 5322 117 12487 | 7019 BC847B | 4822 130 60511 |
| 3529 2k2 1% 0.1W | 5322 117 12487 | 7020 BC847B | 4822 130 60511 |
| 3530 1k RC12G 1% 0.125W | 4822 117 12635 | 7021 BC847B | 4822 130 60511 |
| 3531 1k RC12G 1% 0.125W | 4822 117 11139 | 7022 BC856B | 4822 130 60373 |
| 3532 10ohm 1% 0.125W | 2120 108 93474 | 7023 BC847B | 4822 130 60511 |
| 3533 1k5 1% 0.1W | 2120 108 92619 | 7024 BC847B | 4822 130 60511 |
| 3534 RST SM 0805 ERJ6 N 750ohm PM1 | 5322 117 12487 | 7025 BC847B | 4822 130 60511 |
| 3535 RST SM0805 ERJ6 N 2k2PM1 | 4822 117 11927 | 7026 BC847B | 4822 130 60511 |
| 3536 1k RC12G 1% 0.125W | 5322 117 12487 | 7027 BC847B | 4822 130 42804 |
| 3539 75ohm 1% 0.1W | 4822 051 20008 | 7030 BC817-25 | 4822 130 60373 |
| 3540 1k RC12G 1% 0.125W | 2120 108 92616 | 7031 BC856B | 4822 130 60511 |
| 3541 1k RC12G 1% 0.125W | 4822 117 11953 | 7032 BC847B | 4822 130 60511 |
| 3542 0ohm jumper . (0805) | 2120 108 92625 | 7033 BC337 | 4822 130 40855 |
| 3543 RST SM 0805 ERJ6N 1k2 PM1 | 5322 117 12487 | 7034 BC847B | 4822 130 60511 |
| 3544 560ohm 1% 0.1W | 4822 117 10361 | 7035 BC847B | 4822 130 60511 |
| 3545 RST SM 0805 ERJ6N 5k6PM1 | 4822 051 20101 | 7036 BC856B | 4822 130 60373 |
| 3546 1k RC12G 1% 0.125W | 4822 117 10833 | 7037 BC847B | 4822 130 60511 |
| 3549 75ohm 1% 0.1W | 4822 051 20472 | 7038 BC847B | 4822 209 17423 |
| 3551 680ohm 1% 0.1W | 4822 051 20472 | 7400 UAD1328T | 4822 209 16978 |
| 3552 100ohm 5% 0.1W | 4822 051 20472 | 7401 LF33CV | 4822 209 30095 |
| 3553 10k 1% 0.1W | 4822 051 20472 | 7402 LM833D | 4822 209 30095 |
| 3554 4k7 5% 0.1W | 4822 051 20472 | 7404 LM833D | 4822 130 10845 |
| 3555 4k7 5% 0.1W | 4822 051 20472 | 7406 GP1F32T | 4822 209 16256 |
| 3556 4k7 5% 0.1W | 4822 051 20472 | 7408 TDA4780/V4 | |

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| 7409 AD8073 | 9322 141 80668 |
| 7411 LF80C. | 9322 140 82687 |
| 7412 L7905CV. | 4822 209 72684 |

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|---------------------------|----------------|
| 7107 BC847B | 4822 130 60511 |
| 7108 BC847B | 4822 130 60511 |
| 7109 BC856B | 4822 130 60373 |
| 7110 TSOP1736SB1. | 4822 212 30842 |
| 7112 MC79L24ACP | 4822 209 31257 |

Front PCB

| | |
|-----------------------------------------------|----------------|
| Front PCB | |
| 2 FTD HOLDER DVD711. | 3139 244 00440 |
| 1100 SWITCH | 4822 276 13775 |
| 1101 SWITCH | 4822 276 13775 |
| 1102 SWITCH | 4822 276 13775 |
| 1106 SWITCH | 4822 276 13775 |
| 1107 SWITCH | 4822 276 13775 |
| 1108 SWITCH | 4822 276 13775 |
| 1109 SWITCH | 4822 276 13775 |
| 1110 RES CER 8MHz CSTS*MHz 03 | 2422 540 98423 |
| 1112 BEEPER PKM13EPY-4002 | 8239 210 52390 |
| 1113 VFD 14-MT-27GNK 135*29 (FTB0)B | 2722 171 07172 |
| 1120 POWER SWITCH SPEC 121100 | 8239 210 52480 |
| 2102 100pF 5% 50V | 5322 122 32531 |
| 2103 100pF 5% 50V | 5322 122 32531 |
| 2105 50V 33nF PM5 | 4822 126 12105 |
| 2106 10uF 20% 63V | 4822 124 40248 |
| 2107 50V 33nF PM5 | 4822 126 12105 |
| 2108 50V 33nF PM5 | 4822 126 12105 |
| 2109 50V 33nF PM5 | 4822 126 12105 |
| 2110 50V 33nF PM5 | 4822 126 12105 |
| 2111 50V 33nF PM5 | 4822 126 12105 |
| 2114 22pF 5% 50V. | 5322 122 32658 |
| 2115 22pF 5% 50V. | 5322 122 32658 |
| 2116 50V 33nF PM5 | 4822 126 12105 |
| 2117 10uF 20% 63V | 4822 124 40248 |
| 2122 50V 33nF PM5 | 4822 126 12105 |
| 2123 10uF 20% 16V | 4822 124 11947 |
| 2124 EL 5MM 35V 22uF PM20 COL A | 3198 028 42290 |
| 2125 22pF 5% 50V. | 5322 122 32658 |
| 2126 10uF 20% 63V | 4822 124 40248 |
| 2128 1nF 10% 63V. | 5322 122 31647 |
| 2129 EL 5MM 35V 22uF PM20 COL A | 3198 028 42290 |
| 2130 EL 5MM 35V 22uF PM20 COL A | 3198 028 42290 |
| 2201 50V 33nF PM5 | 4822 126 12105 |
| 2211 100pF 5% 50V | 5322 122 32531 |
| 3103 82k 1% 0.1W. | 4822 117 11149 |
| 3105 0ohm jumper . (0805) | 4822 051 20008 |
| 3107 0ohm jumper . (0805) | 4822 051 20008 |
| 3108 82k 1% 0.1W. | 4822 117 11149 |
| 3109 4k7 5% 0.1W. | 4822 051 20472 |
| 3110 4k7 5% 0.1W. | 4822 051 20472 |
| 3111 4k7 5% 0.1W. | 4822 051 20472 |
| 3112 4k7 5% 0.1W. | 4822 051 20472 |
| 3113 4k7 5% 0.1W. | 4822 051 20472 |
| 3114 10ohm 5% 0.1W. | 4822 051 20109 |
| 3115 4k7 5% 0.1W. | 4822 051 20472 |
| 3116 82k 1% 0.1W. | 4822 117 11149 |
| 3117 4ohm7 5% | 4822 117 11152 |
| 3118 10k 1% 0.1W. | 4822 117 10833 |
| 3119 10k 1% 0.1W. | 4822 117 10833 |
| 3120 470ohm 5% 0.1W | 4822 051 20471 |
| 3121 4k7 5% 0.1W. | 4822 051 20472 |
| 3122 10ohm 5% 0.1W. | 4822 051 20109 |
| 3123 10k 1% 0.1W. | 4822 117 10833 |
| 3125 10ohm 5% 0.1W. | 4822 051 20109 |
| 3130 10ohm 5% 0.1W. | 4822 051 20109 |
| 3131 4ohm7 5% | 4822 117 11152 |
| 3132 330ohm 1% RC12H 0805 1.25W | 4822 117 13577 |
| 3133 10ohm 5% 0.1W. | 4822 051 20109 |
| 3134 330ohm 1% RC12H 0805 1.25W | 4822 117 13577 |
| 3135 220ohm 1% 0.1W | 4822 117 11503 |
| 3136 1k 2% 0.25W. | 4822 051 10102 |
| 3137 10k 1% 0.1W. | 4822 117 10833 |
| 3138 470ohm 5% 0.1W | 4822 051 20471 |
| 3139 4k7 5% 0.1W. | 4822 051 20472 |
| 3140 10k 1% 0.1W. | 4822 117 10833 |
| 3142 330ohm 1% RC12H 0805 1.25W | 4822 117 13577 |
| 3143 10k 1% 0.1W. | 4822 117 10833 |
| 3144 100k 1% 0.1W | 4822 117 10837 |
| 3145 10k 1% 0.1W. | 4822 117 10833 |
| 3150 4k7 5% 0.1W. | 4822 051 20472 |
| 3151 100ohm 5% 0.1W | 4822 051 20101 |
| 6101 BZX284-C8V2. | 4822 130 11666 |
| 6102 BZX284-C10 | 4822 130 10794 |
| 6104 BAS216 | 4822 130 83757 |
| 6105 BAS216 | 4822 130 83757 |
| 6200 LTL-16KPE-P. | 4822 130 82978 |
| 7100 BC847B | 4822 130 60511 |
| 7102 BC847B | 4822 130 60511 |
| 7103 BC847B | 4822 130 60511 |
| 7104 IC ROM SLAVE DVD950. | 3104 123 94530 |
| 7105 BC337. | 4822 130 40855 |
| 7106 BC327. | 4822 130 40854 |

Various

| | |
|----------------------------------------------|----------------|
| Various | |
| 200 CAB FRONT DVD751/17X PNT PRT | 3139 247 50820 |
| 201 S1D. | 4822 459 10887 |
| 202 DVD LOGO DVD711. | 3139 240 00030 |
| 203 LIGHT CONDUCTOR DVD950 | 3139 244 00160 |
| 204 WINDOW DVD711/17X PNT PRT. | 3139 247 50900 |
| 205 BTN POWER BK PNT PRT | 3139 247 51120 |
| 206 L/G HOLDER | 3139 244 00490 |
| 208 VOLUMEKNOB DVD950 PNT PRT. | 3139 247 50180 |
| 219 DOOR DVD711/17X PNT PRT. | 3139 247 50930 |
| 220 DOOR SPRING. | 3139 241 20110 |
| 232 COVER TOP. | 3139 247 50340 |
| 240 BTN CONTROL DVD711/17X PNT PRT | 3139 247 50870 |
| 242 RING DVD751/17X PNT PRT. | 3139 247 50960 |
| 244 FOOT ASSY DVD711 | 3139 247 50750 |
| 245 FOOT ASSY DVD711 | 3139 247 50750 |
| 1005 PCBAS MITSUMI PSU DVD2000 USA. | 3139 248 80380 |
| 1014 FFC FOIL 22P/105/22P BD B. | 3139 110 34220 |
| 1018 FFC FOIL 16P/105/16P BD B. | 3139 110 34230 |

Accessories

| | |
|----------------------------------------------|----------------|
| Accessories | |
| 381 CABLE CINCH/CINCH 1M5 YE/RD/WH | 2422 076 00304 |
| 384 RC2550/01. | 3128 147 11110 |
| 385 MAINS CORD /17 | 4822 321 11466 |
| 387 IFU DVD751/17X | 3139 246 10290 |

S = Safety Part Be sure to use exact replacement part.

Philips Consumer Electronics

Technical Service Data

Service Solutions Group
Technical Publications Dept.
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401 East Old Andrew Johnson Hwy.
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Manual 1960

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Safety Notes

REFER TO SAFETY GUIDELINES

SAFETY NOTICE: ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

Visit our World Wide Web Site at <http://www.magnavox.com>

GENERAL SAFETY NOTES

IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all Philips Consumer Electronics Company** equipment. The service procedures recommended by Philips and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various **CAUTIONS** and **NOTICES** which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these **CAUTIONS** and **NOTICES ARE NOT EXHAUSTIVE**. Philips could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Philips has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Philips must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

** Hereafter throughout this manual, Philips Consumer Electronics Company will be referred to as Philips.

WARNING

Critical components having special safety characteristics are identified with a **▲** or "**S**" by the Ref. No. in the parts list and enclosed within a broken line* (where several critical components are grouped in one area) along with the safety symbol **▲** on the schematics or exploded views. Use of substitute replacement parts which do not have the same specified safety characteristics may create shock, fire, or other hazards. Under no circumstances should the original design be modified or altered without written permission from Philips. Philips assumes no liability, express or implied, arising out of any unauthorized modification of design. Servicer assumes all liability.

* Broken Line _____

SAFETY CHECKS

After the original service problem has been corrected, a complete safety check should be made. Be sure to check over the entire set, not just the areas where you have worked. Some previous servicer may have left an unsafe condition, which could be unknowingly passed on to Your customer. Be sure to check all of the following:

FIRE AND SHOCK HAZARD


IMPLOSION

X-RADIATION

LEAKAGE CURRENT COLD CHECK

LEAKAGE CURRENT HOT CHECK

FIRE AND SHOCK HAZARD

1. Be sure all components are positioned in such a way as to avoid the possibility of adjacent component shorts. This is especially important on those chassis which are transported to and from the service shop.
2. Never release a repaired unit unless all protective devices such as insulators, barriers, covers, strain reliefs, and other hardware have been installed in accordance with the original design.
3. Soldering and wiring must be inspected to locate possible cold solder joints, solder splashes, sharp solder points, frayed leads, pinched leads, or damaged insulation (including the ac cord). Be certain to remove loose solder balls and all other loose foreign particles.
4. Check across-the-line components and other components for physical evidence of damage or deterioration and replace if necessary. Follow original layout, lead length, and dress.
5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces or edges must be avoided.
6. Critical components having special safety characteristics are identified with an '**S**' by the Ref. No. in the parts list and enclosed within a broken line* (where several critical components are grouped in one area) along with the safety symbol  on the schematic diagrams and /or exploded views.
7. When servicing any unit, always use a separate isolation transformer for the chassis. Failure to use a separate isolation transformer may expose you to possible shock hazard, and may cause damage to servicing instruments.
8. Many electronic products use a polarized ac line cord (one wide pin on the plug). Defeating this safety feature may create a potential hazard to the servicer and the user. Extension cords which do not incorporate the polarizing feature should never be used.
9. After reassembly of the unit, always perform an ac leakage test or resistance test from the line cord to all exposed metal parts of the cabinet. Also, check all metal control shafts (with knobs removed), antenna terminals, handles, screws, etc., to be sure the unit may be safely operated without danger of electrical shock.

* **Broken line** _____

IMPLOSION

1. All picture tubes used in current model receivers are equipped with an integral implosion system. Care should always be used, and safety glasses worn, whenever handling any picture tube. Avoid scratching or otherwise damaging the picture tube during installation.
2. Use only replacement tubes specified by the manufacturer.

X-RADIATION

1. Be sure procedures and instructions to all your service personnel cover the subject of X-radiation. Potential sources of X-rays in TV receivers are the picture tube and the high voltage circuits. The basic precaution which must be exercised is to keep the high voltage at the factory recommended level.
2. To avoid possible exposure to X-radiation and electrical shock, only the manufacturer's specified anode connectors must be used.
3. It is essential that the service technician has an accurate HV meter available at all times. The calibration of this meter should be checked periodically against a reference standard.
4. When the HV circuitry is operating properly there is no possibility of an X-radiation problem. High voltage should always be kept at the manufacturer's rated value - no higher - for optimum performance. Every time a color set is serviced, the brightness should be run up and down while monitoring the HV with a meter to be certain that the HV is regulated correctly and does not exceed the specified value. We suggest that you and your technicians review test procedures so that HV and HV regulation are always checked as a standard servicing procedure, and the reason for this prudent routine is clearly understood by everyone. It is important to use an accurate and reliable HV meter. It is recommended that the HV reading be recorded on each customer's invoice, which will demonstrate a proper concern for the customer's safety.
5. When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, reduce the line voltage by means of a Variac to bring the HV into acceptable limits while troubleshooting. Do not operate the chassis longer than necessary to locate the cause of the excessive HV.
6. New picture tubes are specifically designed to withstand higher operating voltages without creating undesirable X-radiation. It is strongly recommended that any shop test fixture which is to be used with the new higher voltage chassis be equipped with one of the new type tubes designed for this service. Addition of a permanently connected HV meter to the shop test fixture is advisable. The CRT types used in these new sets should never be replaced with any other types, as this may result in excessive X-radiation.
7. It is essential to use the specified picture tube to avoid a possible X-radiation problem.
8. Most TV receivers contain some type of emergency "Hold Down" circuit to prevent HV from rising to excessive levels in the presence of a failure mode. These various circuits should be understood by all technicians servicing them, especially since many hold down circuits are inoperative as long as the receiver performs normally.

LEAKAGE CURRENT COLD CHECK

1. Unplug the ac line cord and connect a jumper between the two prongs of the plug.
2. Turn on the power switch.
3. Measure the resistance value between the jumpered ac plug and all exposed cabinet parts of the receiver, such as screw heads, antennas, and control shafts. When the exposed metallic part has a return path to the chassis, the reading should be between 1 megohm and 5.2 megohms. When the exposed metal does not have a return path to the chassis, the reading must be infinity. Remove the

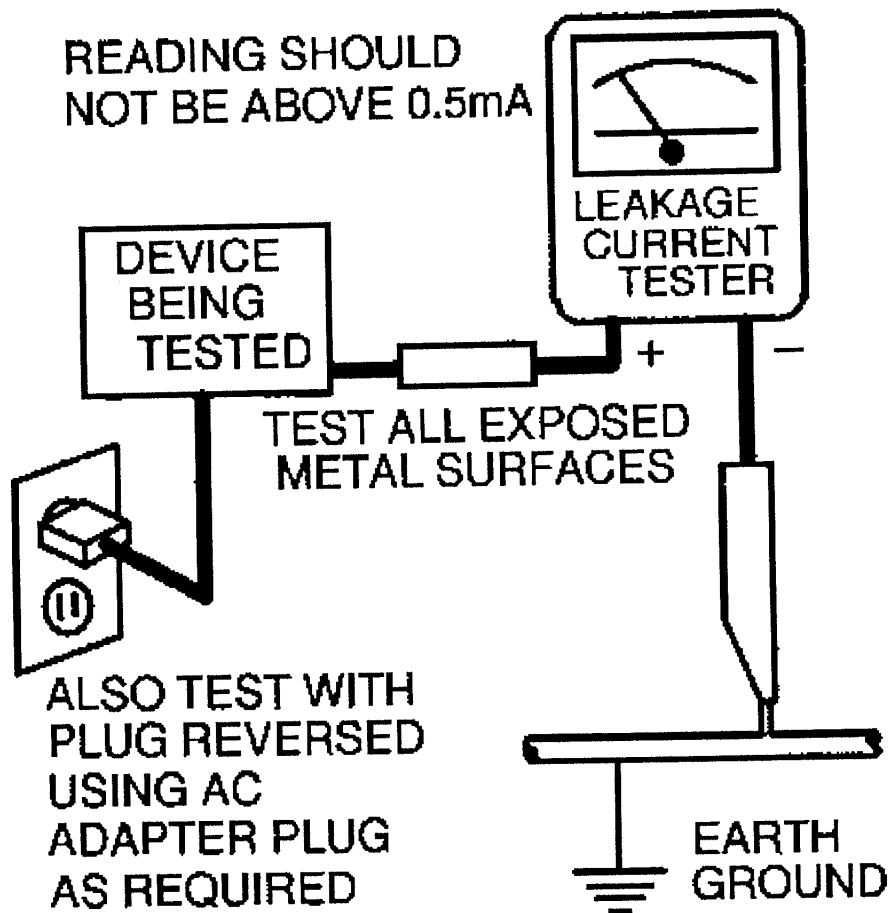
jumper from the ac line cord.

LEAKAGE CURRENT HOT CHECK

1. Do not use an isolation transformer for this test. Plug the completely reassembled receiver directly into the ac outlet.
2. Connect a **1.5k, 10W resistor** paralleled by a **0.15uF. capacitor** between each exposed metallic cabinet part and a **good earth ground** such as a water pipe, as shown below.
3. Use an ac voltmeter with at least 5000 ohms/volt sensitivity to measure the potential across the resistor.
4. The potential at any point should not exceed 0.75 volts. A leakage current tester may be used to make this test; leakage current must not exceed 0.5milliamp. If a measurement is outside of the specified limits, there is a possibility of shock hazard. The receiver should be repaired and rechecked before returning it to the customer.
5. **Repeat the above procedure with the ac plug reversed.** (Note: An ac adapter is necessary when a polarized plug is used. Do not defeat the polarizing feature of the plug.)

OR

With the instrument completely reassembled, plug the AC line cord directly into a 120V AC outlet. **(Do not use an isolation transformer during this test.)** Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). **With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamp. Reverse the instrument power cord plug in the outlet and repeat the test. See graphic below.**



PICTURE TUBE REPLACEMENT

The primary source of X-radiation in this television receiver is the picture tube. The picture tube utilized in this chassis is specially constructed to limit X-radiation emissions. For continued X-radiation protection, the replacement tube must be the same type as the original, including suffix letter, or a Philips approved type.

PARTS REPLACEMENT

Many electrical and mechanical parts in Philips television sets have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. The use of a substitute part which does not have the same safety characteristics as the Philips recommended replacement part shown in this service manual may create shock, fire, or other hazards

TV SAFETY NOTES

SAFETY CHECKS

IMPLOSION

X-RADIATION

PICTURE TUBE REPLACEMENT

PARTS REPLACEMENT

WARNING

Before removing the CRT anode cap, turn the unit **OFF** and short the **HIGH VOLTAGE** to the **CRT DAG** ground.

SERVICE NOTE: The **CRT DAG** is not at chassis ground.

TV-VCR COMBI SAFETY NOTES

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

SAFETY PRECAUTIONS FOR TV CIRCUITS

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:
 - a. Be sure that no built-in protective devices are defective or have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.
 - b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the picture tube and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
 - c. Do a LEAKAGE CURRENT CHECK

ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER

OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

d. **X-Radiation and High Voltage Limits** - Because the picture tube is the primary potential source of X-radiation in solid-state TV receivers, it is specially constructed to prohibit X-radiation emissions. For continued X-radiation protection, the replacement picture tube must be the same type as the original. Also, because the picture tube shields and mounting hardware perform an X-radiation protection function, they must be correctly in place. High voltage must be measured each time servicing is performed that involves B+, horizontal deflection or high voltage. Correct operation of the X-radiation protection circuits also must be reconfirmed each time they are serviced. (X-radiation protection circuits also may be called "horizontal disable" or "hold down.") Read and apply the high voltage limits and, if the chassis is so equipped, the X-radiation protection circuit specifications given on instrument labels and in the **Product Safety & X-Radiation** Warning note on the service data chassis schematic. High voltage is maintained within specified limits by close tolerance safety-related components/adjustments in the high-voltage circuit. If high voltage exceeds specified limits, check each component specified on the chassis schematic and take corrective action.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.

3. **Design Alteration Warning** - Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4. **Picture Tube Implosion Protection Warning** - The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; because of potential hazard, do not try to remove such "permanently attached" yokes from the picture tube.

5. **Hot Chassis Warning**


a. Some TV receiver chassis are electrically connected directly to one conductor of the ac power cord and may be serviced safely without an isolation transformer only if the ac power plug is inserted so that the chassis is connected to the ground side of the ac power source. To confirm that the ac power plug is inserted correctly, with an ac voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0V is obtained, remove and reinsert the ac power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.

b. Some TV receiver chassis normally have 85Vac (RMS) between chassis and earth ground regardless of the ac plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the ac power source, for both personnel and test equipment protection. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the ac power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.

6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: **a.** near sharp edges, **b.** near thermally hot parts - be sure that leads and components do not touch thermally hot parts, **c.** the ac supply, **d.** high voltage, and **e.** antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check ac power cord for damage.

7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

PRECAUTIONS DURING SERVICE

A. Parts identified by the  symbol are critical for safety. Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.

Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:

- 1) Wires covered with PVC tubing
- 2) Double insulated wires
- 3) High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:

- 1) Insulation Tape
- 2) PVC tubing
- 3) Spacers
- 4) Insulators for transistors

E. When replacing ac primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

G. Check that replaced wires do not contact sharp edged or pointed parts.

H. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.