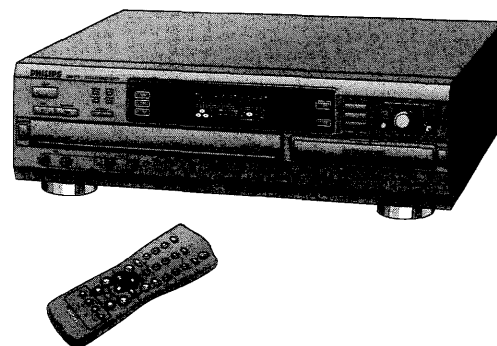


Service Service Service



Service Manual

REPARO

Para reparo nos CDR785 / CDR786, o aparelho pode ser dividido em duas partes :

1. Exceto pelo painel de Fonte (fonte chaveada – Switched Mode Power Supply) e do módulo CD-R/W o aparelho tem de ser reparado à nível de componentes.
2. O painel Fonte e o módulo CD-R/W será trocado inteiramente em caso de falha. O módulo defeituoso CD-R/W deverá ser devolvido para a central de reparo.

Descrições de circuitos disponíveis: O fundamento do "Compact Disc Recordable/Rewritable"
3ª Geração do "Compact Disc Recording"

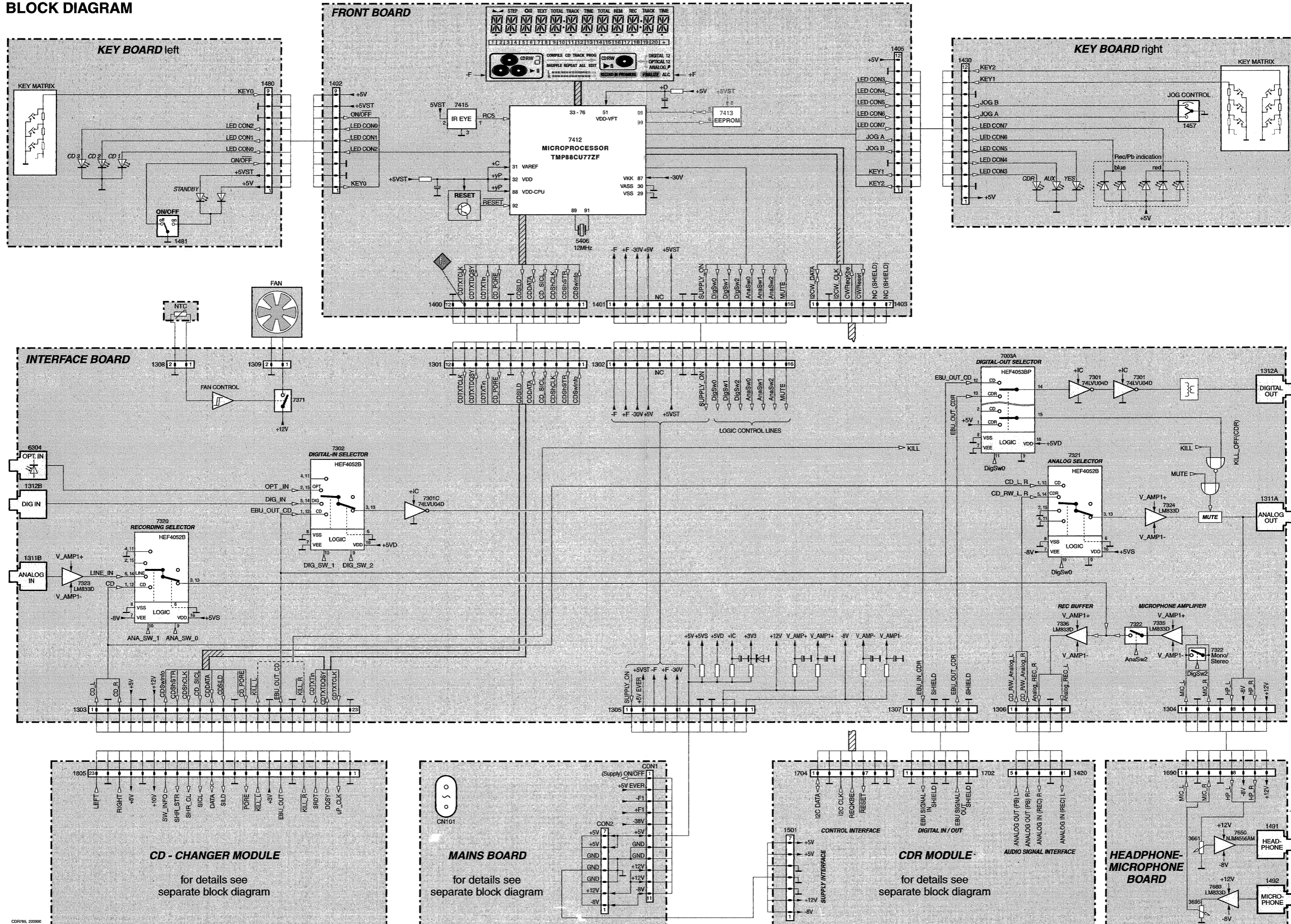


ÍNDICE

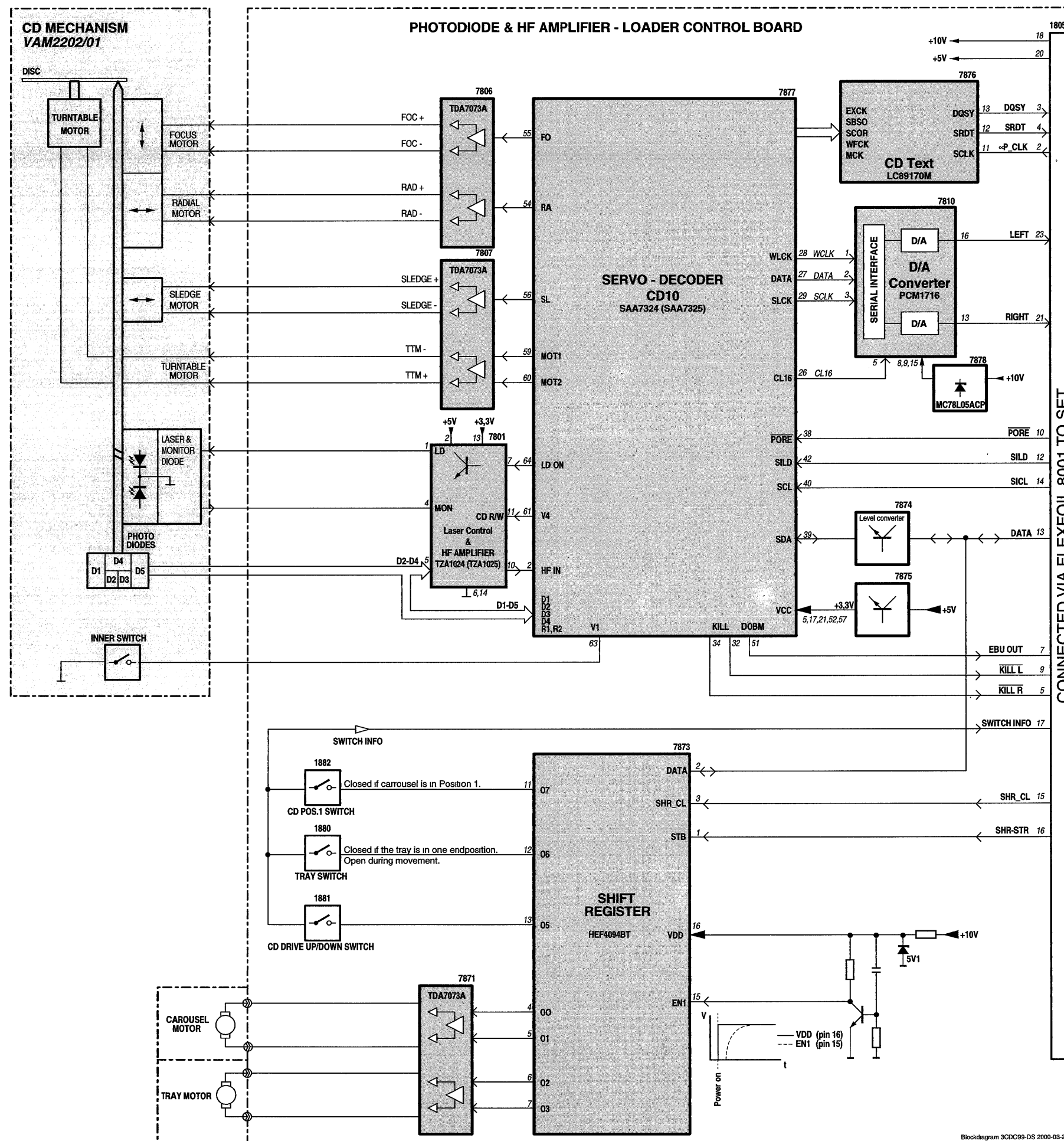
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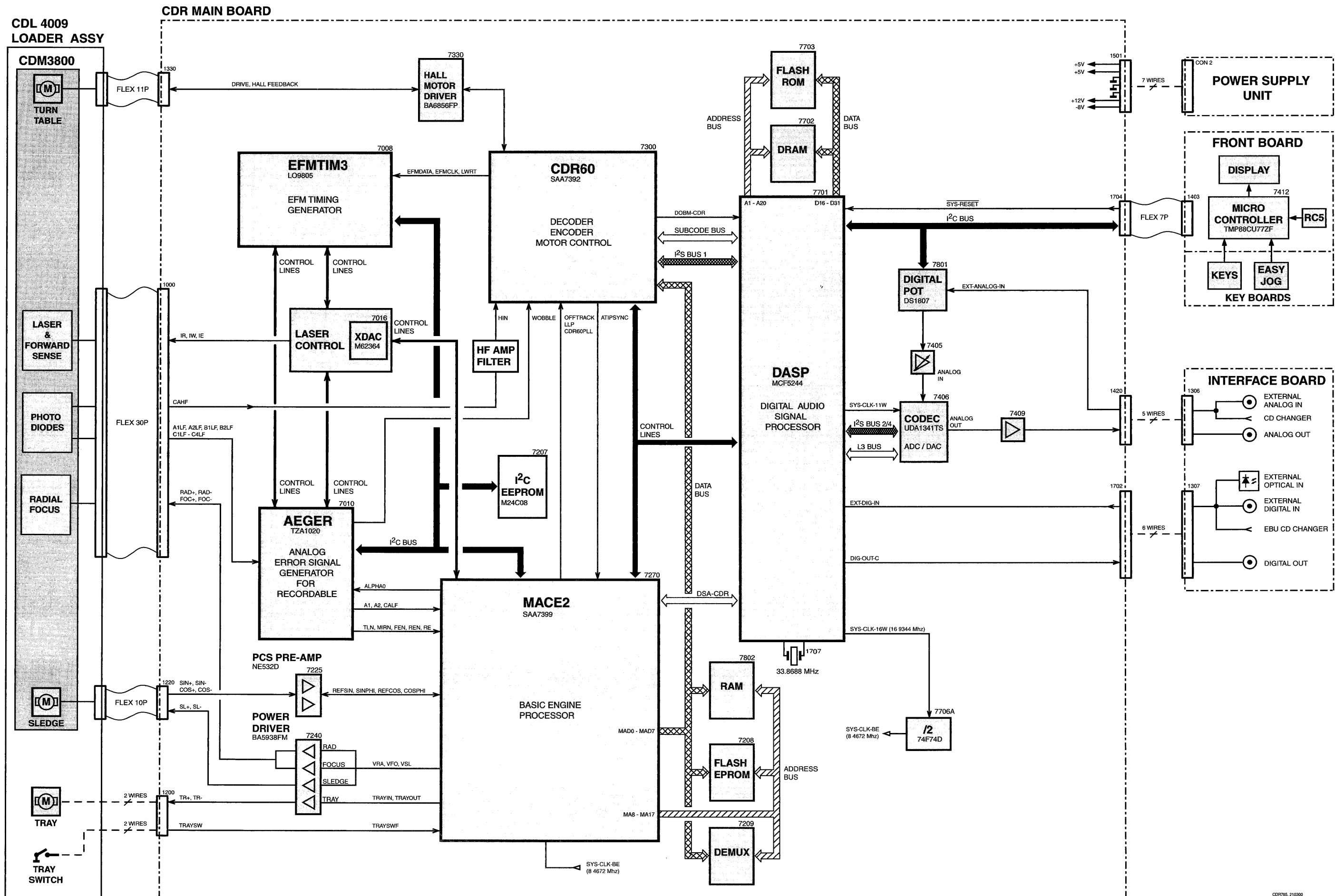
BLOCK DIAGRAM



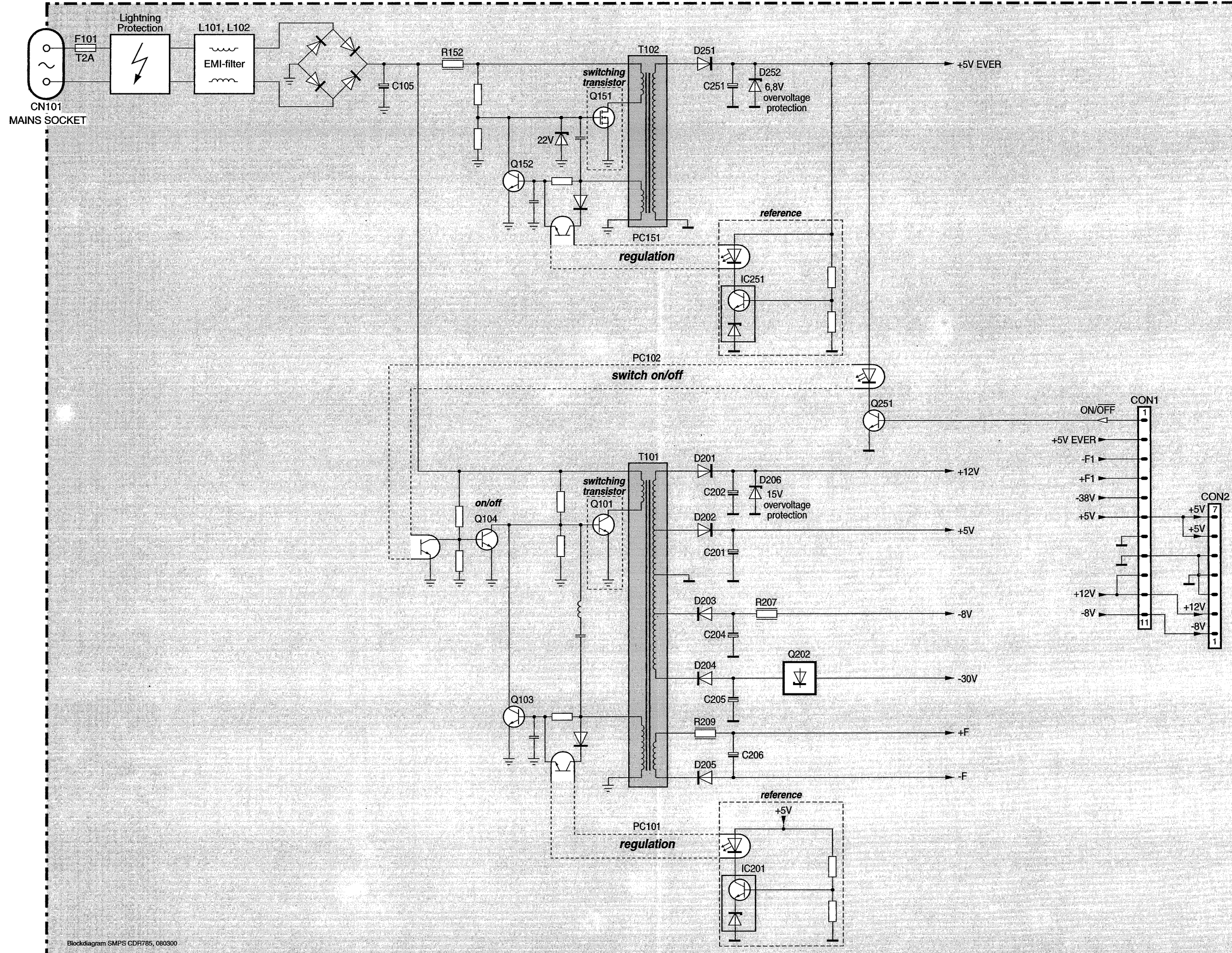
BLOCK DIAGRAM 3CDC MODULE



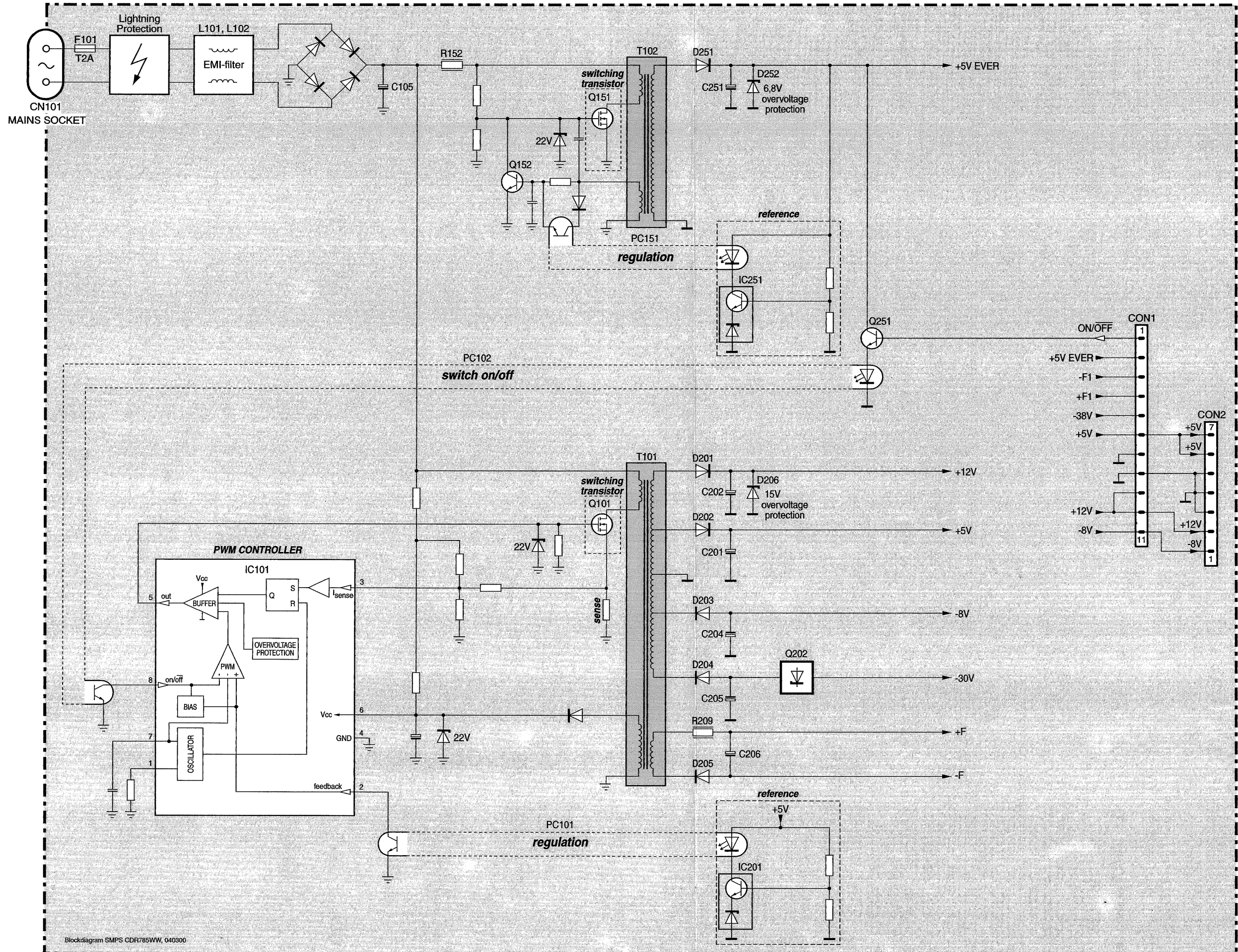
BLOCK DIAGRAM CDR-MODULE



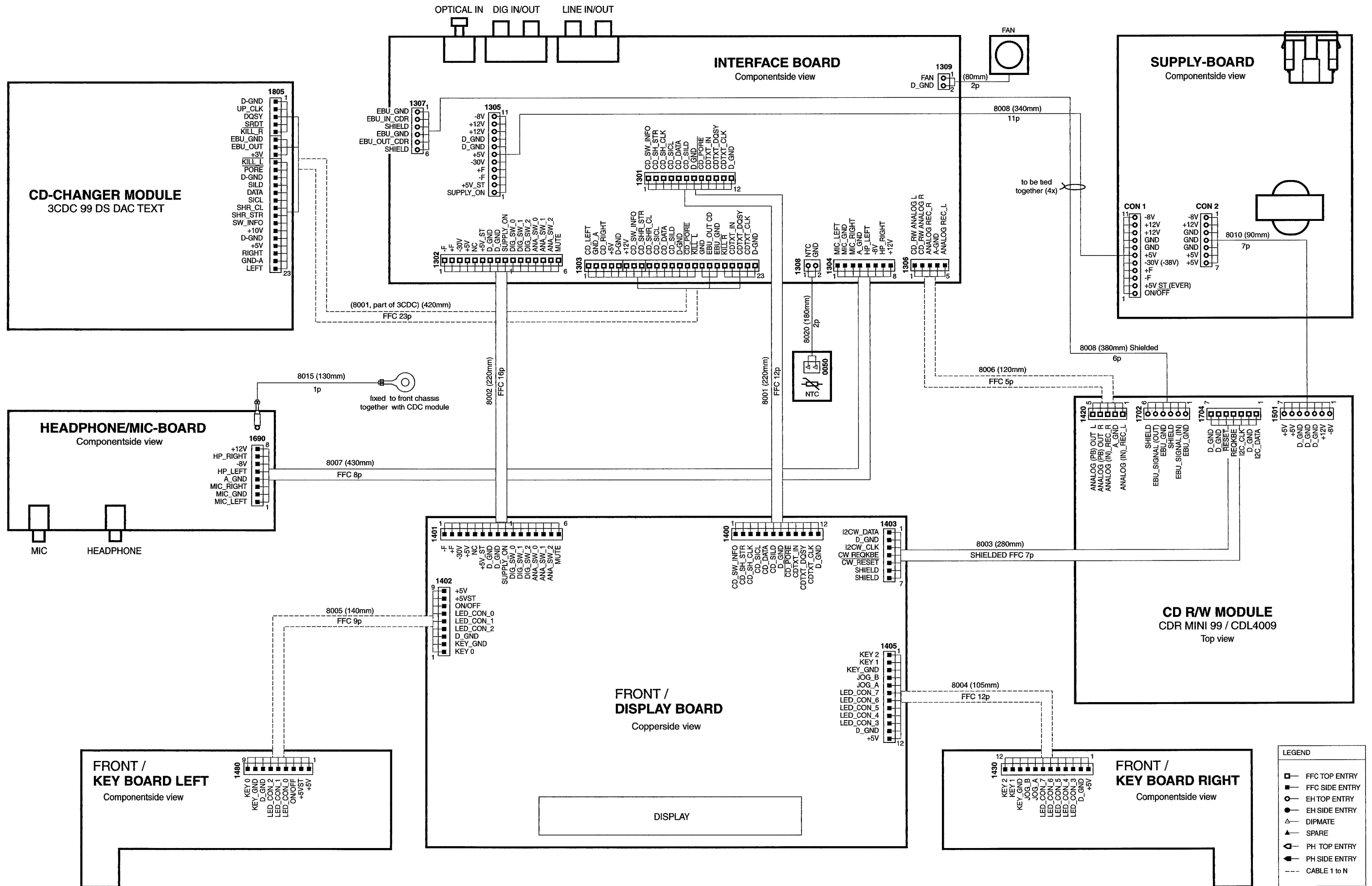
BLOCK DIAGRAM
SWITCHED MODE POWER SUPPLY / European & USA version



BLOCK DIAGRAM
SWITCHED MODE POWER SUPPLY /WorldWide version



WIRING DIAGRAM



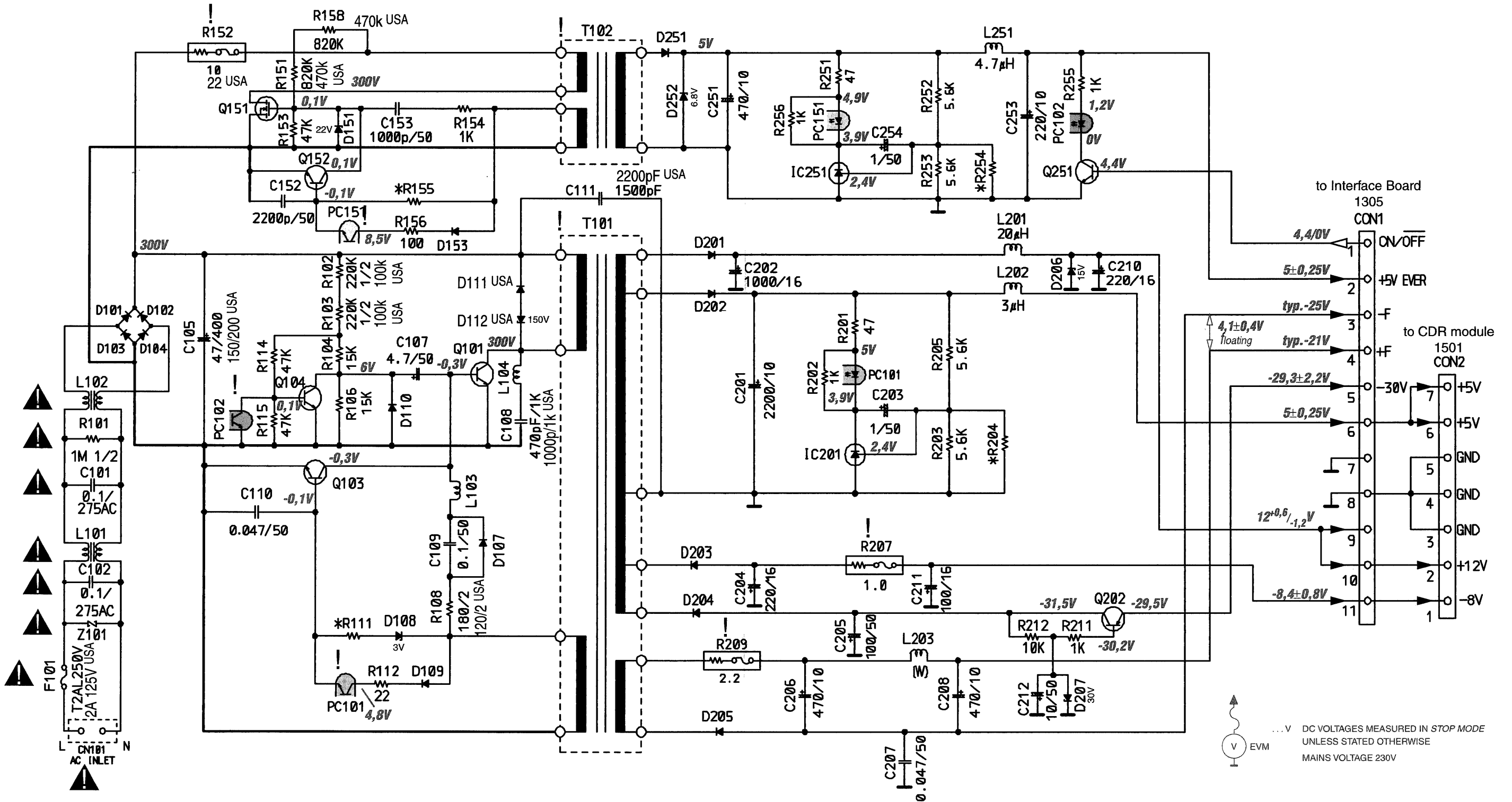
LEGEND

- FFC TOP ENTRY
- FFC SIDE ENTRY
- EH TOP ENTRY
- EH SIDE ENTRY
- △ DIPMATE
- ▲ SPARE
- ◀ PH TOP ENTRY
- ▶ PH SIDE ENTRY
- CABLE 1 to N

For service code numbers of flexfoil cables see mechanical partslist.

for orientation only

Switched Mode Power Supply / EU + USA version (/00/17)



... V DC VOLTAGES MEASURED IN STOP MODE UNLESS STATED OTHERWISE
 MAINS VOLTAGE 230V

- D101, D102, D103, D104 1N4005 or 1N4007
- D107 11ES2 or ERA15-02
- D108 MA4030 or MTZJ3.0
- D109, D110, D153 1SS133 or MA165
- D111 AG01A USA
- D112 P6KE150 or Z2150U USA
- D151 MA4220 or MTZJ22
- Q101 2SC4231 2SC5241 USA
- Q103, Q104 2SC4040
- Q151 2SK2128 2SK2177 USA
- Q152 2SC1740
- PC101, PC102, PC151 ON3171 or PC123 or PS2561
- ON3131 or PC817 or PS2501 USA

- D201 S3L20U or 31DF2
- D202 D3S4M or SB340
- D203, D204, D251 D1NL20U
- D205 AK04
- D206 RD15F or MA2150
- D207 MA4300 or MTZJ30
- D252 MA4068 or MTZJ6.8
- IC201, IC251 AN1431T or MM1431AT
- Q202 2SB1434 or 2SA1015 or 2SA933AS
- Q251 UN4211 or DTC114ESA

LEGEND
 USA for USA version only

Ω/W (1/4W)
μF/V (50V)

* EU version

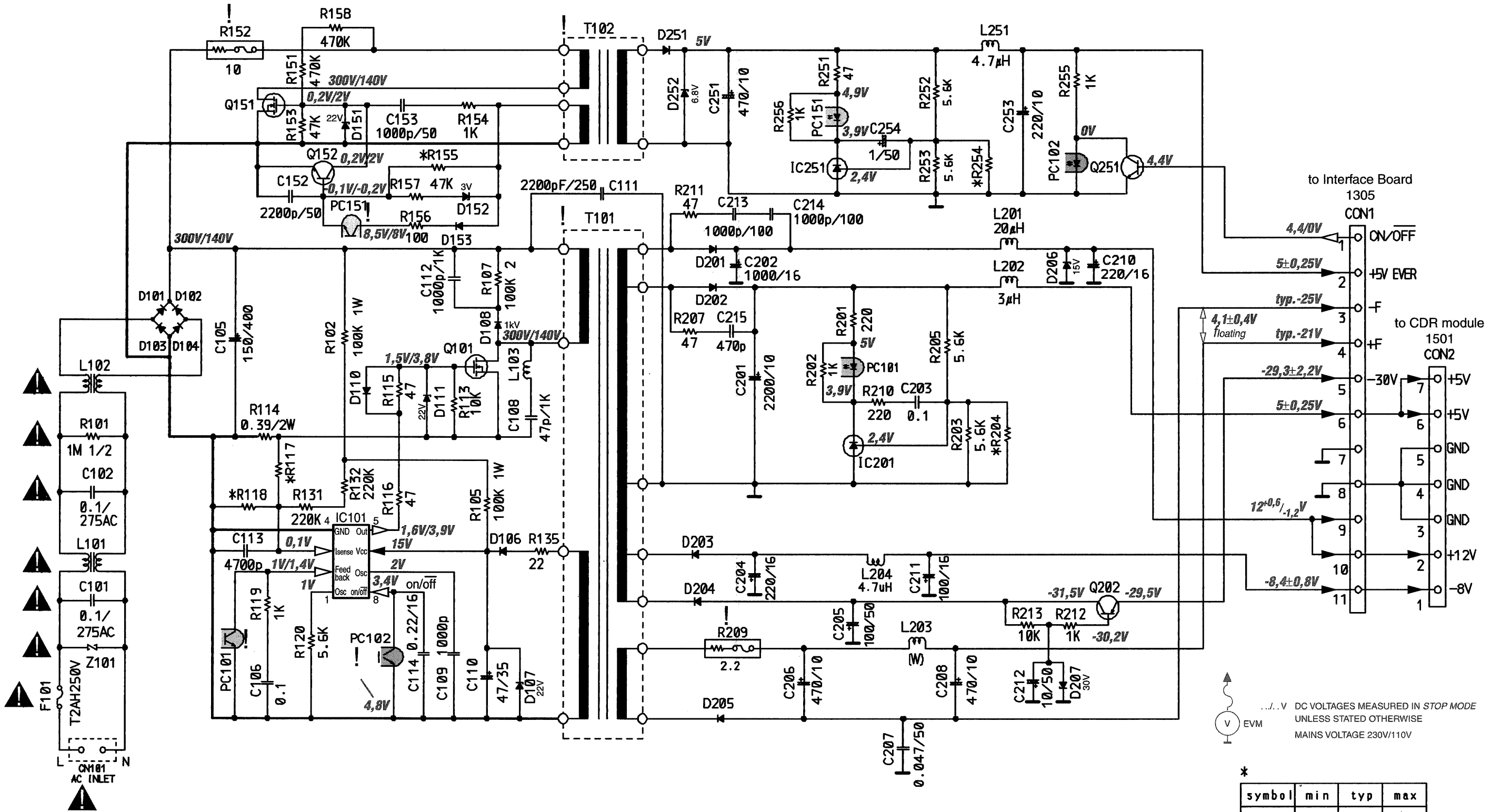
symbol	min	typ	max
*R111	680	820	1K
*R155	10K	15K	82K
*R204	47K	100K	OPEN
*R254	47K	100K	OPEN

* USA version

symbol	min	typ	max
*R111	470	560	680
*R155	10k	22k	82k
*R204	47k	100k	OPEN
*R254	47k	100k	OPEN

for orientation only

Switched Mode Power Supply / WorldWide version (/01)



... V DC VOLTAGES MEASURED IN STOP MODE
UNLESS STATED OTHERWISE
MAINS VOLTAGE 230V/110V

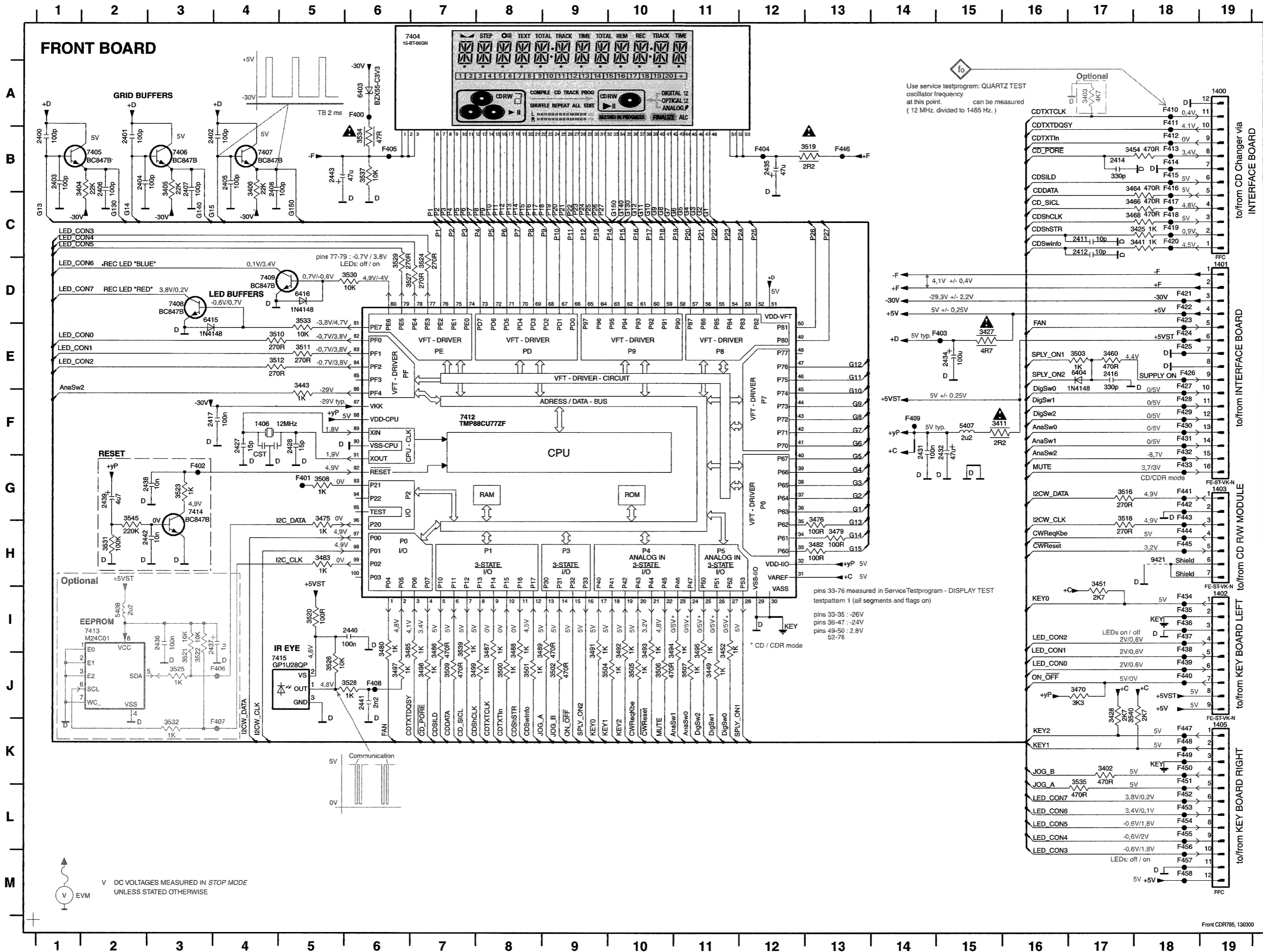
*

symbol	min	typ	max
*R117	470	560	680
*R118	560	680	820
*R155	15K	33K	82K
*R204	47K	100K	OPEN
*R254	47K	100K	OPEN

Ω/W (1/4W)
μF/V (50V)

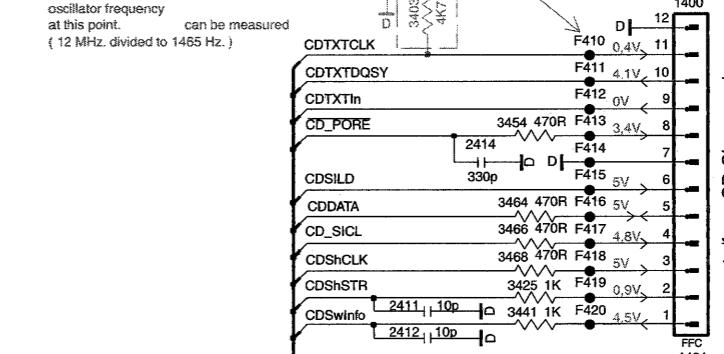
- | | | | |
|------------------------|---------------------------|------------------|--------------------------------|
| D101, D102, D103, D104 | 1N4005 or 1N4007 | D201 | S3L20U or 31DF2 |
| D106 | AU02Z or | D202 | D3S4M or SB340 |
| D107, D151 | MA4220 or MTZJ22 | D203, D204, D251 | D1NL20U |
| D108 | EG01C or | D205 | AK04 |
| D110, D153 | 1S5133 or MA165 | D206 | RD15F or MA2150 |
| D111 | MA2220 or RD22F | D207 | MA4300 or MTZJ30 |
| D152 | MA4030 or MTZJ3.0 | D252 | MA4068 or MTZJ6.8 |
| Q101 | 2SK2651 | IC201, IC251 | AN1431T or MM1431AT |
| Q151 | 2SK2120 | Q202 | 2SB1434 or 2SA1015 or 2SA933AS |
| Q152 | 2SC1740 | Q251 | UN4211 or DTC114ESA |
| PC101, PC102, PC151 | ON3171 or PC123 or PS2561 | | |
| IC101 | KA7552 or FA5317P | | |

FRONT BOARD

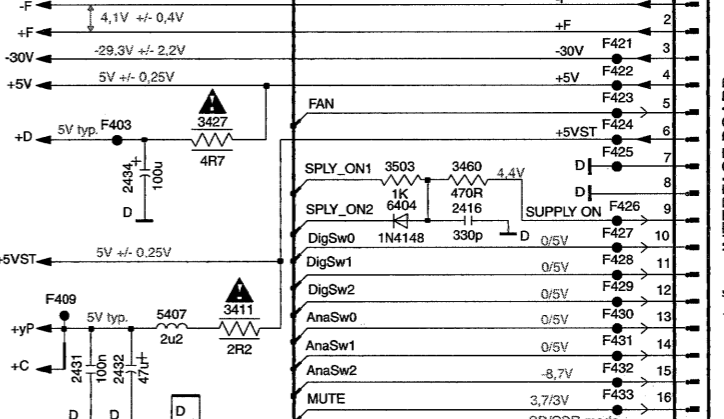


Use service testprogram: QUARTZ TEST oscillator frequency at this point, can be measured (12 MHz, divided to 1455 Hz.)

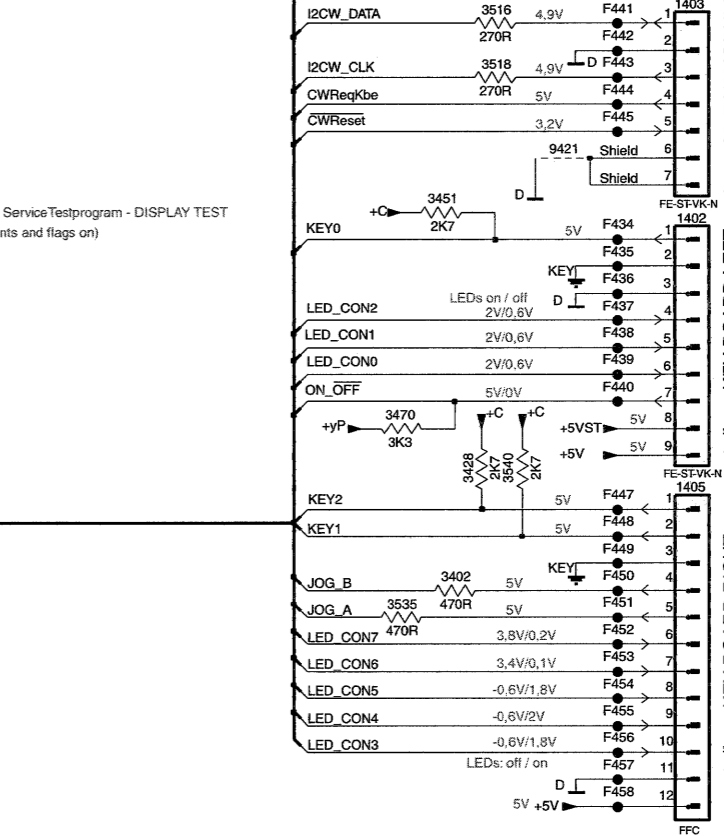
Optional



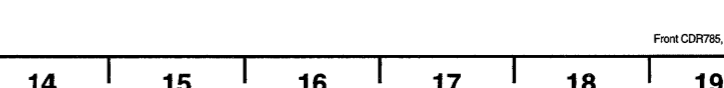
to/from CD Changer via INTERFACE BOARD



to/from INTERFACE BOARD

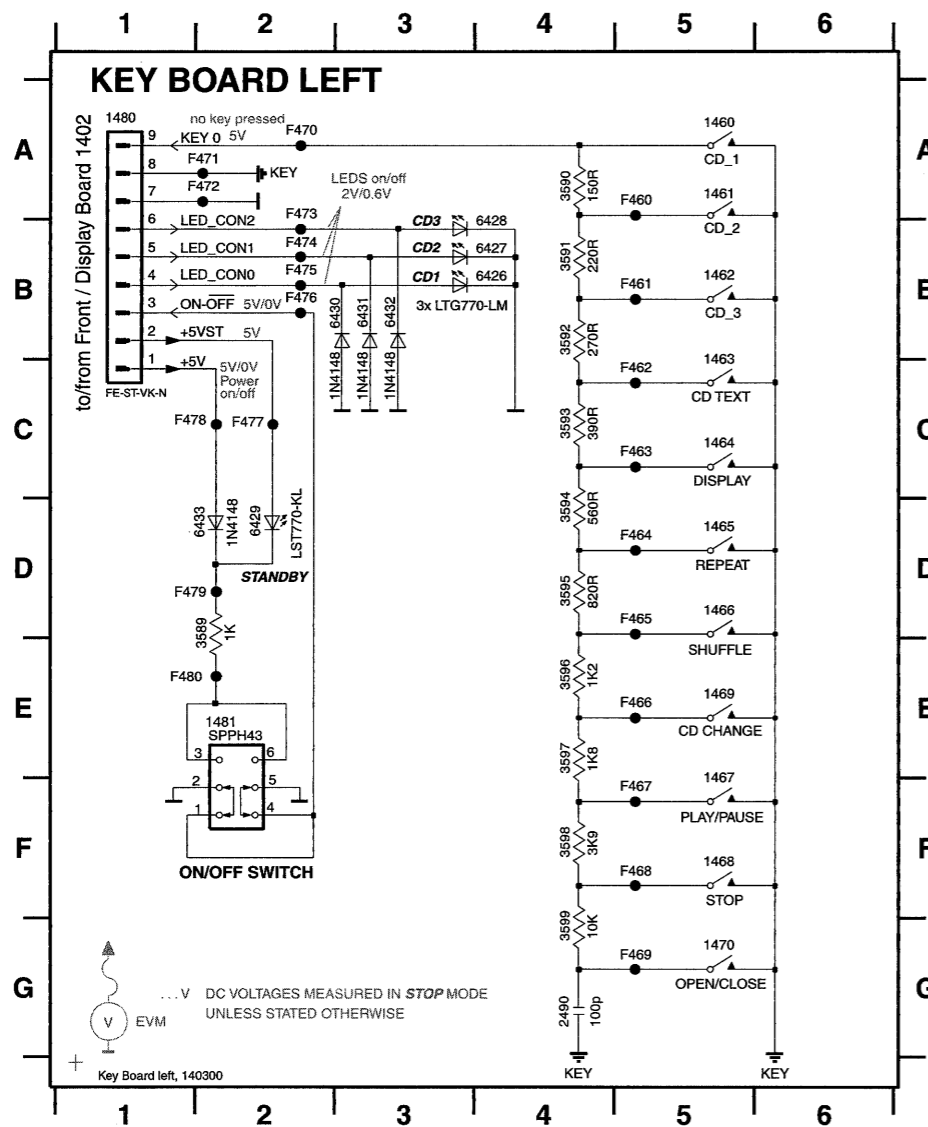


to/from CD R/W MODULE



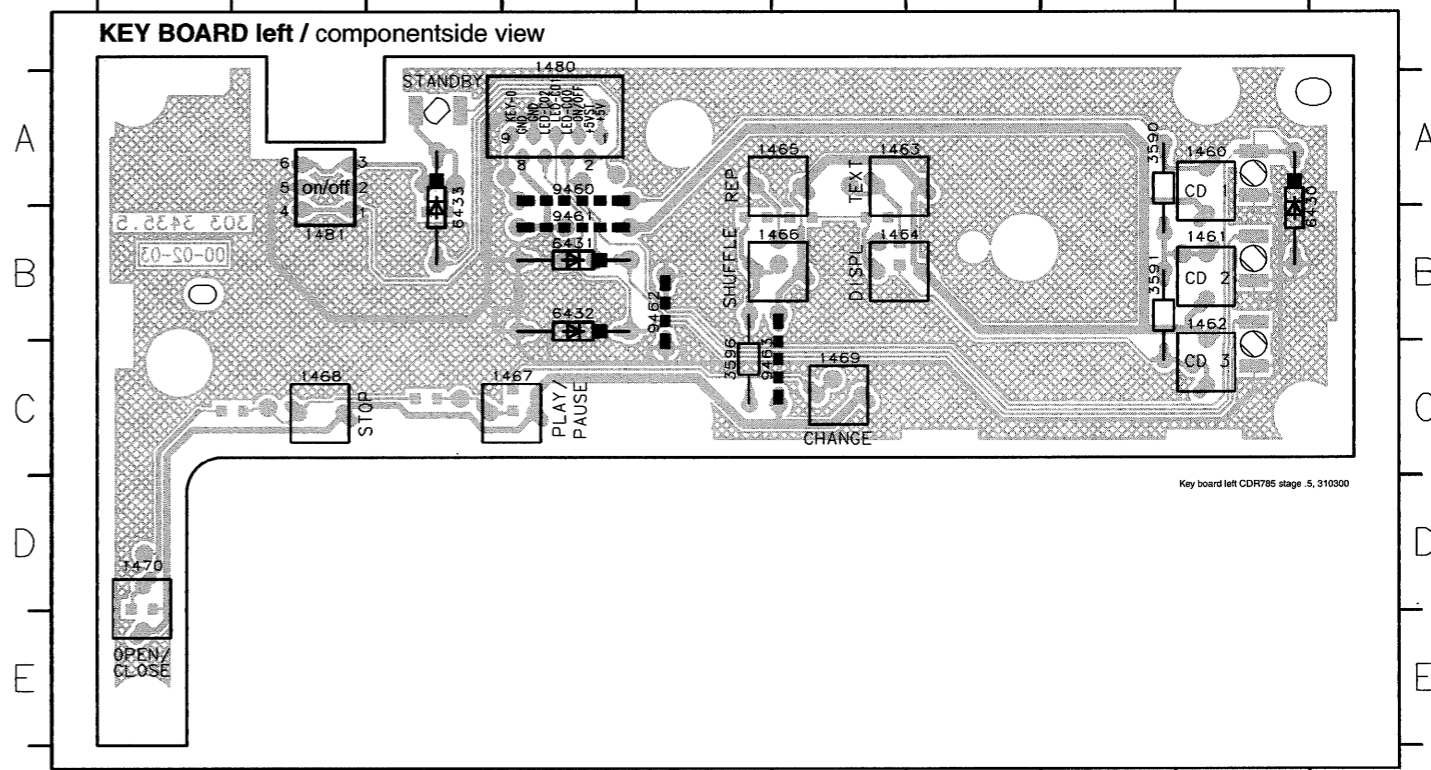
to/from KEY BOARD LEFT to/from KEY BOARD RIGHT

- 1400 A19
- 1401 D19
- 1402 I19
- 1403 G19
- 1405 K19
- 1406 F4
- 2400 B1
- 2401 B2
- 2402 B3
- 2403 B1
- 2404 B2
- 2405 B4
- 2406 B2
- 2407 B3
- 2408 B4
- 2411 C17
- 2412 C17
- 2414 B17
- 2416 E17
- 2417 F3
- 2427 F4
- 2428 F5
- 2432 F15
- 2434 E15
- 2435 B12
- 2436 I3
- 2437 I4
- 2438 G3
- 2439 G2
- 2440 I6
- 2441 J6
- 2442 H3
- 2443 B5
- 3402 K17
- 3403 A17
- 3404 B14
- 3405 B3
- 3406 B4
- 3411 F15
- 3425 C18
- 3427 E15
- 3428 J17
- 3441 C18
- 3443 E5
- 3449 J11
- 3451 H17
- 3452 I11
- 3454 B17
- 3480 E17
- 3484 B18
- 3486 C18
- 3488 C18
- 3470 J17
- 3475 G5
- 3476 H13
- 3479 H13
- 3480 I6
- 3482 H13
- 3483 H5
- 3485 I6
- 3486 I7
- 3488 I8
- 3489 I8
- 3491 I8
- 3492 I10
- 3493 I10
- 3494 I10
- 3495 I11
- 3497 J6
- 3498 J7
- 3499 J7
- 3500 J8
- 3501 J8
- 3502 J9
- 3503 E17
- 3504 J9
- 3505 J10
- 3506 J10
- 3507 J11
- 3508 G5
- 3509 J7
- 3510 E4
- 3511 E5
- 3512 E4
- 3516 G17
- 3518 G17
- 3519 B13
- 3520 I5
- 3521 J3
- 3522 J3
- 3523 G3
- 3524 D7
- 3525 J3
- 3526 J5
- 3527 D7
- 3528 J6
- 3529 D6
- 3530 D6
- 3531 H2
- 3532 K3
- 3533 D5
- 3534 B6
- 3535 K17
- 3537 B6
- 3539 J7
- 3540 J17
- 3545 G2
- 5407 F15
- 5408 I2
- 6403 A6
- 6404 E17
- 6415 D3
- 7404 A6
- 7405 B2
- 7406 B3
- 7407 B4
- 7408 D3
- 7409 D4
- 7412 D5
- 7413 I2
- 7414 G3
- 7415 J5
- 9421 H18
- F400 A6
- F401 G5
- F402 G3
- F403 E15
- F404 B12
- F405 B5
- F406 J4
- F407 K4
- F408 J6
- F409 F14
- F410 A18
- F411 A18
- F412 B18
- F413 B18
- F414 B18
- F415 B18
- F416 B18
- F417 C18
- F418 C18
- F419 C18
- F420 C18
- F421 D18
- F422 D18
- F423 D18
- F424 E18
- F425 E18
- F426 E18
- F427 E18
- F428 F18
- F429 F18
- F430 F18
- F431 F18
- F432 F18
- F433 G18
- F434 I18
- F435 I18
- F436 I18
- F437 I18
- F438 I18
- F439 J18
- F440 J18
- F441 G18
- F442 G18
- F443 G18
- F444 H18
- F445 H18
- F446 B13
- F447 K18
- F448 K18
- F449 K18
- F450 K18
- F451 K18
- F452 L18
- F453 L18
- F454 L18
- F455 L18
- F456 L18
- F457 M18
- F458 M18

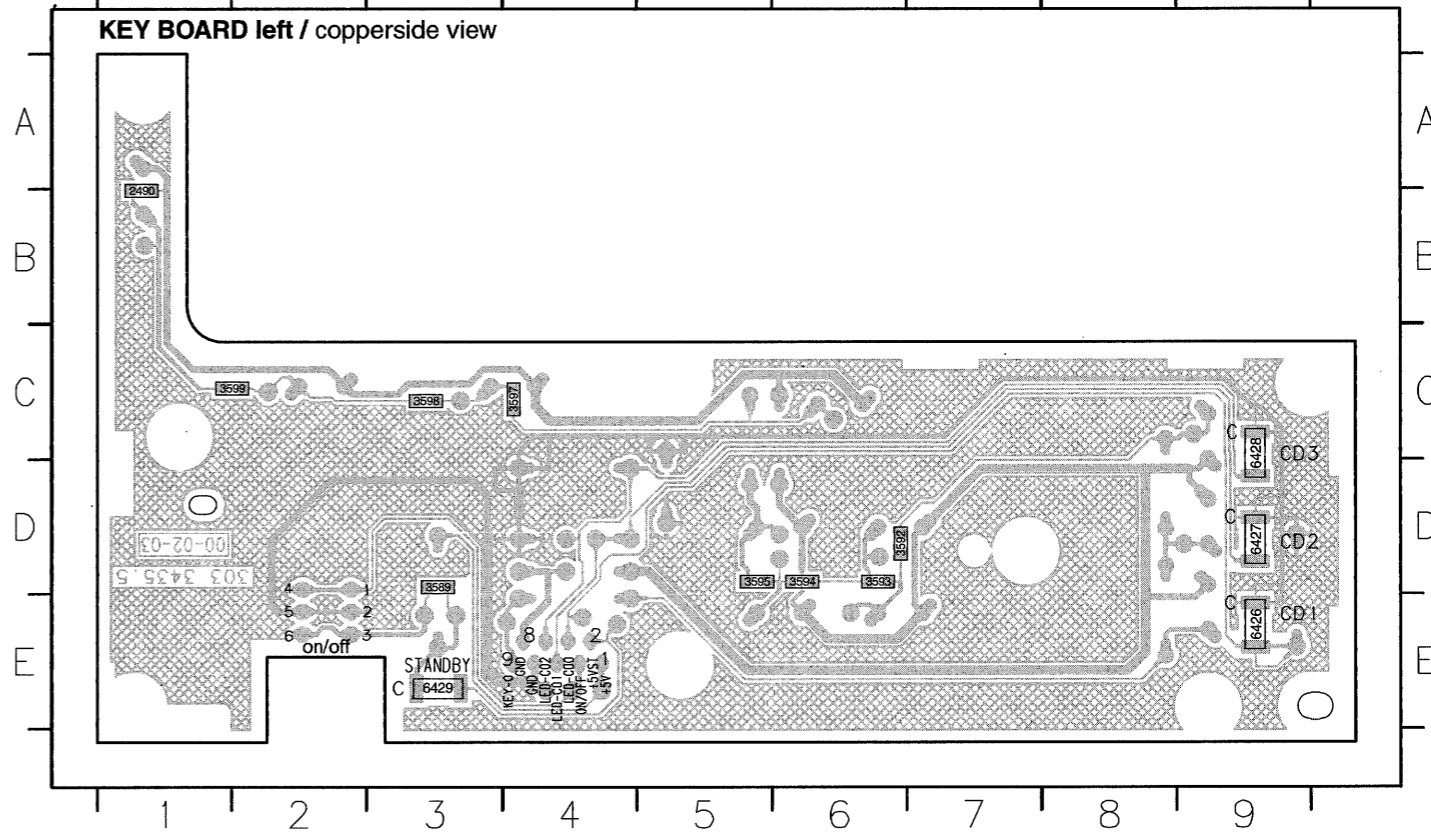


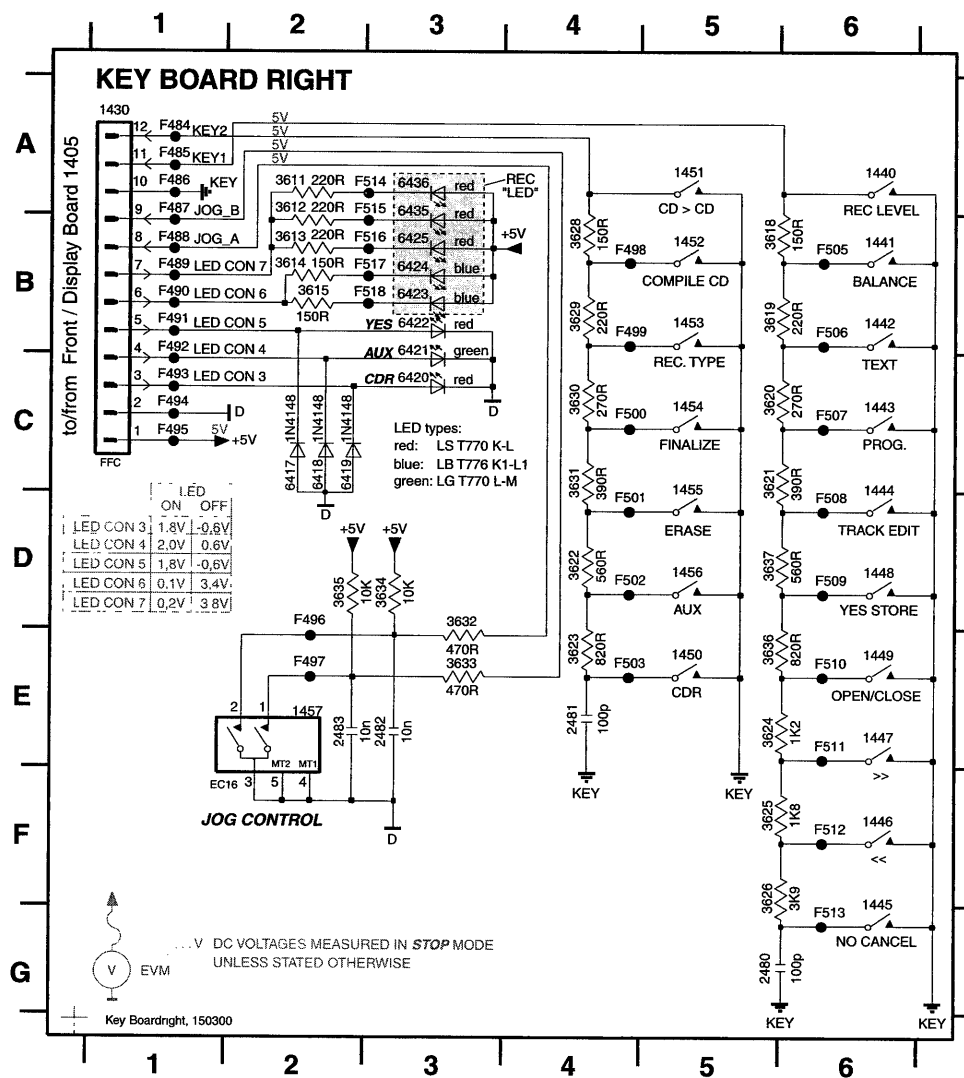
- 1460 A5
- 1461 A5
- 1462 B5
- 1463 B5
- 1464 C5
- 1465 D5
- 1466 D5
- 1467 E5
- 1468 F5
- 1469 E5
- 1470 G5
- 1480 A1
- 1481 E2
- 2490 G4
- 3589 D2
- 3590 A4
- 3591 B4
- 3592 B4
- 3593 C4
- 3594 D4
- 3595 D4
- 3596 E4
- 3597 E4
- 3598 F4
- 3599 G4
- 6426 B3
- 6427 B3
- 6428 B3
- 6429 D2
- 6430 B3
- 6431 B3
- 6432 B3
- 6433 D2
- F460 A5
- F461 B5
- F462 C5
- F463 C5
- F464 D5
- F465 D5
- F466 E5
- F467 F5
- F468 F5
- F469 G5
- F470 A2
- F471 A2
- F472 A2
- F473 A2
- F474 B2
- F475 B2
- F476 B2
- F477 C2
- F478 C1
- F479 D1
- F480 E1

- 1460 A9
- 1461 B9
- 1462 C9
- 1463 A6
- 1464 B6
- 1465 A6
- 1466 B6
- 1467 C4
- 1468 C2
- 1469 C6
- 1470 D1
- 1480 A4
- 1481 B2
- 3590 A8
- 3591 B8
- 3596 C5
- 6430 B9
- 6431 B4
- 6432 B4
- 6433 B3
- 9460 A4
- 9461 B4
- 9462 B5
- 9463 C5



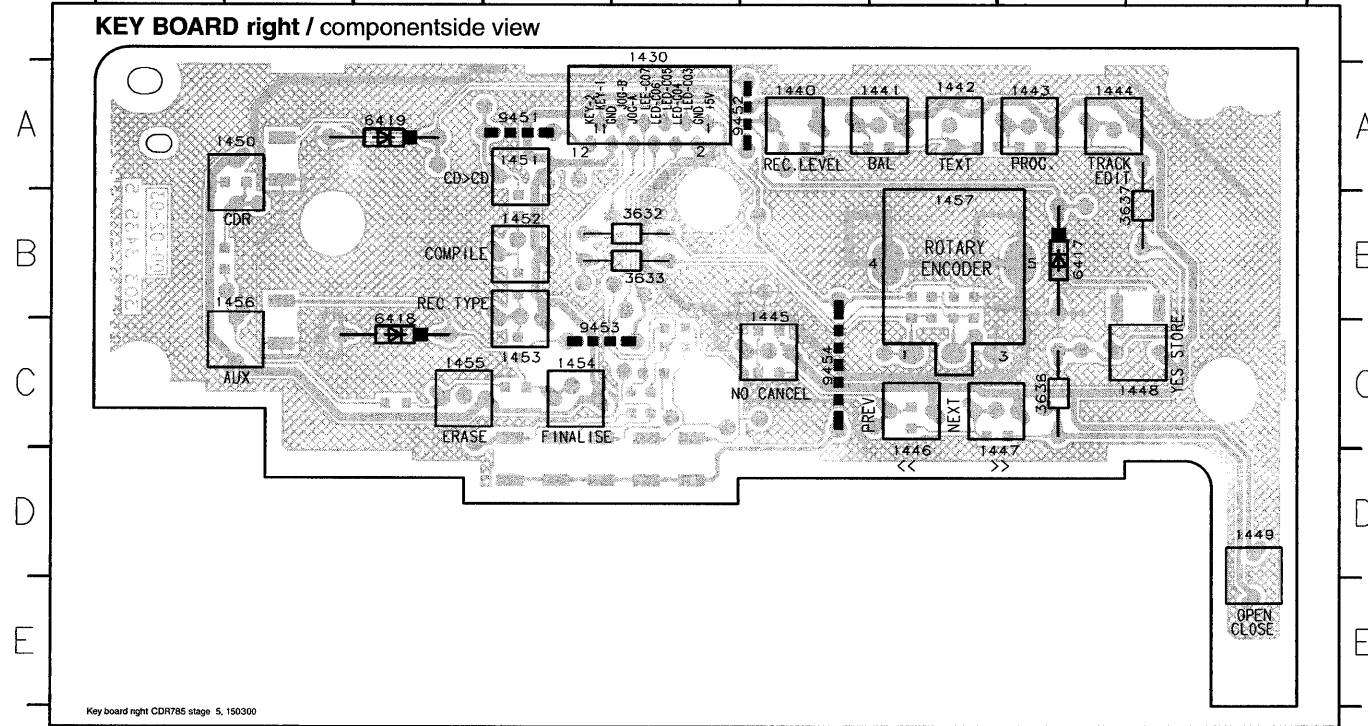
- 2490 B1
- 3589 D3
- 3592 D6
- 3593 D6
- 3594 D6
- 3595 D5
- 3597 C4
- 3598 C3
- 3599 C1
- 6426 E9
- 6427 D9
- 6428 C9
- 6429 E3



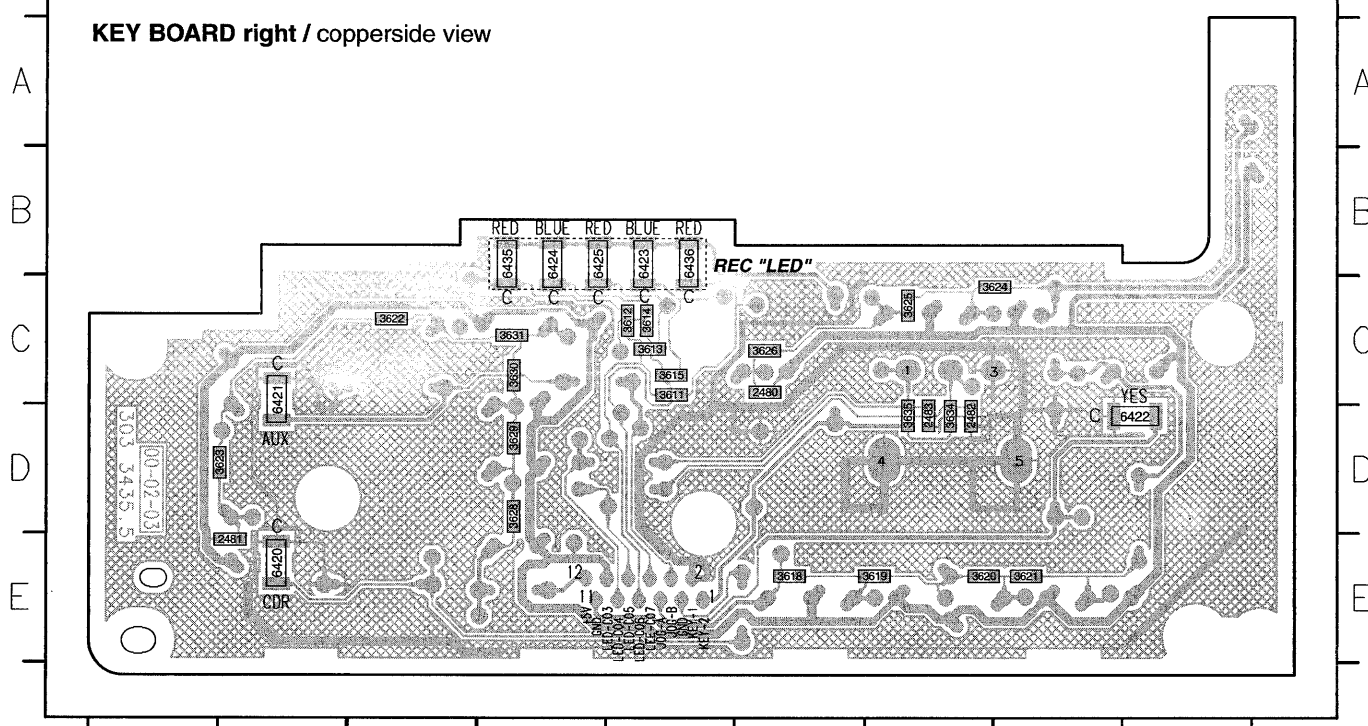


- 1430 A1
- 1440 A6
- 1441 B6
- 1442 B6
- 1443 C6
- 1444 C6
- 1445 F6
- 1446 F6
- 1447 E6
- 1448 D6
- 1449 E6
- 1450 E5
- 1451 A5
- 1452 B5
- 1453 B5
- 1454 C5
- 1455 D5
- 1456 D5
- 1457 E2
- 2480 G6
- 2481 E4
- 2482 E3
- 2483 E2
- 3611 A2
- 3612 A2
- 3613 B2
- 3614 B2
- 3615 B2
- 3618 B5
- 3619 B5
- 3620 C5
- 3621 C5
- 3622 D4
- 3623 E4
- 3624 E5
- 3625 F5
- 3626 F5
- 3628 B4
- 3629 B4
- 3630 C4
- 3631 C4
- 3632 D3
- 3633 E3
- 3634 D3
- 3635 D2
- 3636 E5
- 3637 D5
- 6417 C2
- 6418 C2
- 6419 C2
- 6420 C3
- 6421 C3
- 6422 B3
- 6423 B3
- 6424 B3
- 6425 B3
- 6435 A3
- 6436 A3
- F484 A1
- F485 A1
- F486 A1
- F487 A1
- F488 B1
- F489 B1
- F490 B1
- F491 B1
- F492 B1
- F493 C1
- F494 C1
- F495 C1
- F496 D2
- F497 E2
- F498 E2
- F499 E2
- F500 E4
- F501 E4
- F502 E4
- F503 E4
- F504 E4
- F505 E4
- F506 E4
- F507 E4
- F508 E4
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- F510 E4
- F511 E4
- F512 E4
- F513 E4
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- F515 A3
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- F508 E4
- F509 E4
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- F514 A3
- F515 A3
- F516 B3
- F517 B3
- F518 B3

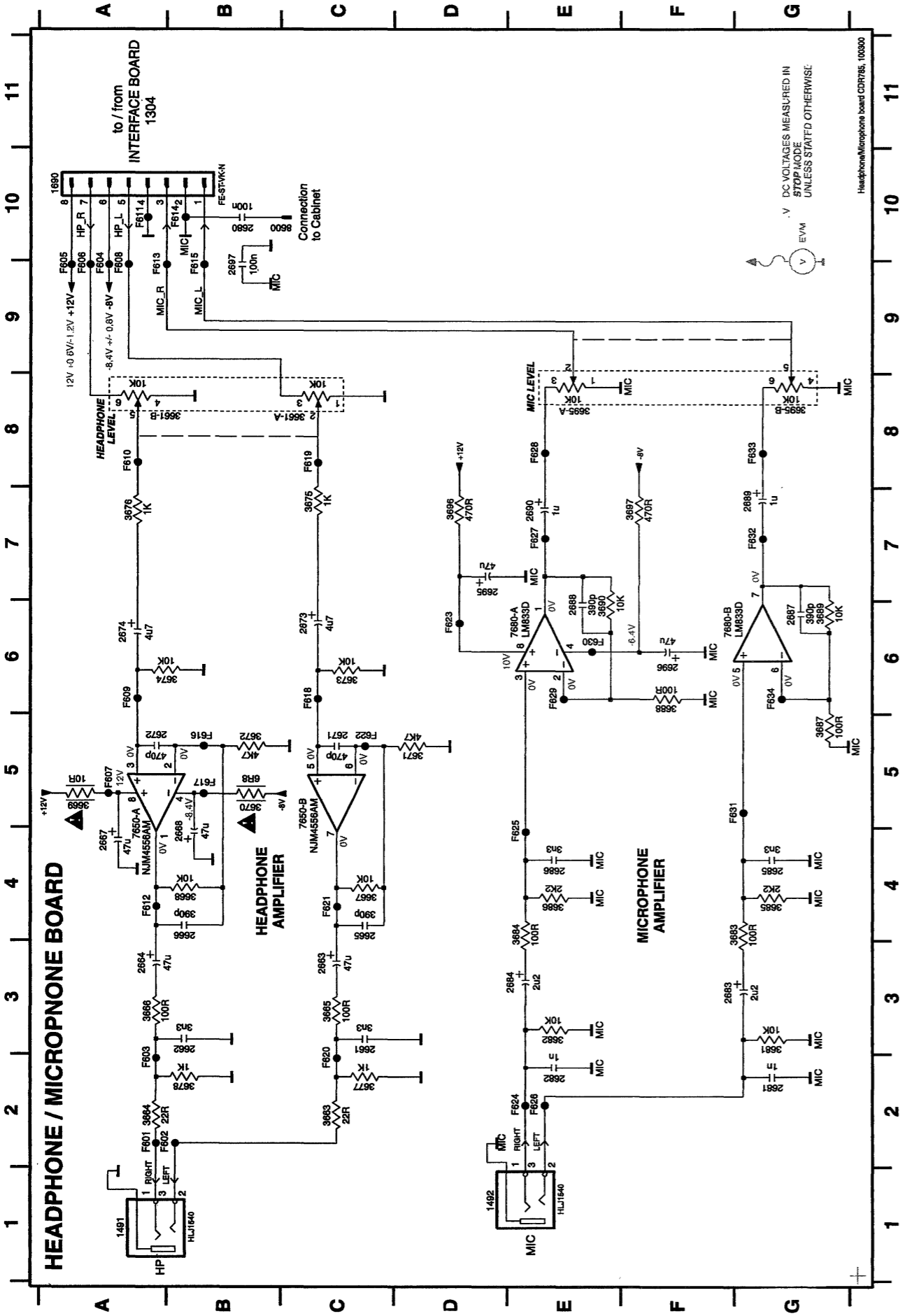
- 1430 A5
- 1440 A6
- 1441 A7
- 1442 A7
- 1443 A8
- 1444 A8
- 1445 B6
- 1446 D7
- 1447 D8
- 1448 C9
- 1449 D9
- 1450 A2
- 1451 A3
- 1452 B4
- 1453 C4
- 1454 C4
- 1455 C3
- 1456 C2
- 1457 A7
- 3632 B5
- 3633 B5
- 3636 C8
- 3637 B8
- 6417 B8
- 6418 B3
- 6419 A3
- 6451 A4
- 9452 A5
- 9453 C4
- 9454 C6

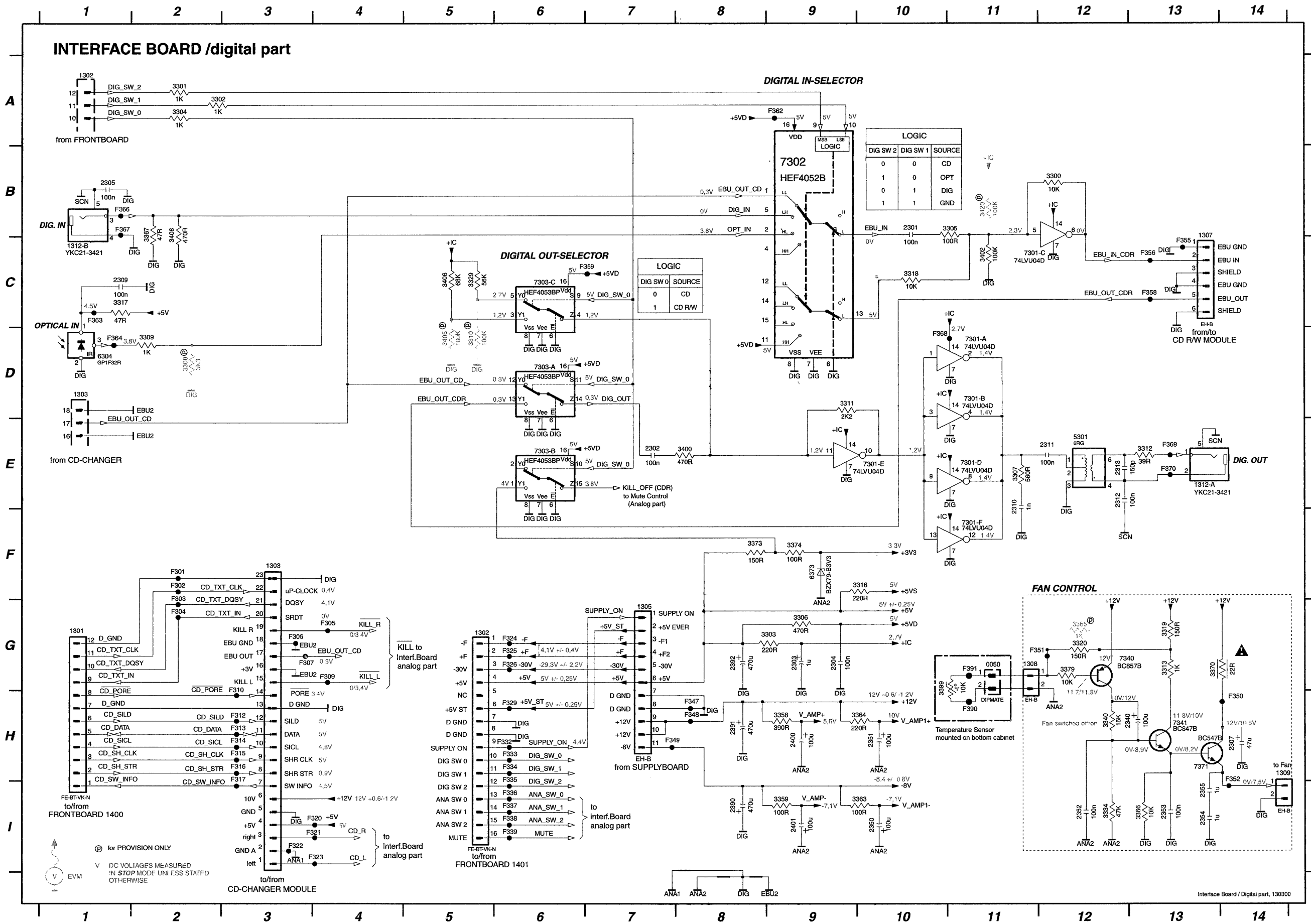


- 2480 C6
- 2481 E2
- 2482 D7
- 3613 C5
- 3614 C5
- 3615 C5
- 3618 E6
- 3619 E7
- 3620 E7
- 3621 E8
- 3622 C3
- 3623 D2
- 3624 C8
- 3625 C7
- 3626 C6
- 3628 D4
- 3629 D4
- 3630 C4
- 3631 C4
- 3634 D7
- 3635 D7
- 6420 E2
- 6421 C2
- 6422 D9
- 6423 B5
- 6424 B4
- 6425 B4
- 6435 B4
- 6436 B5

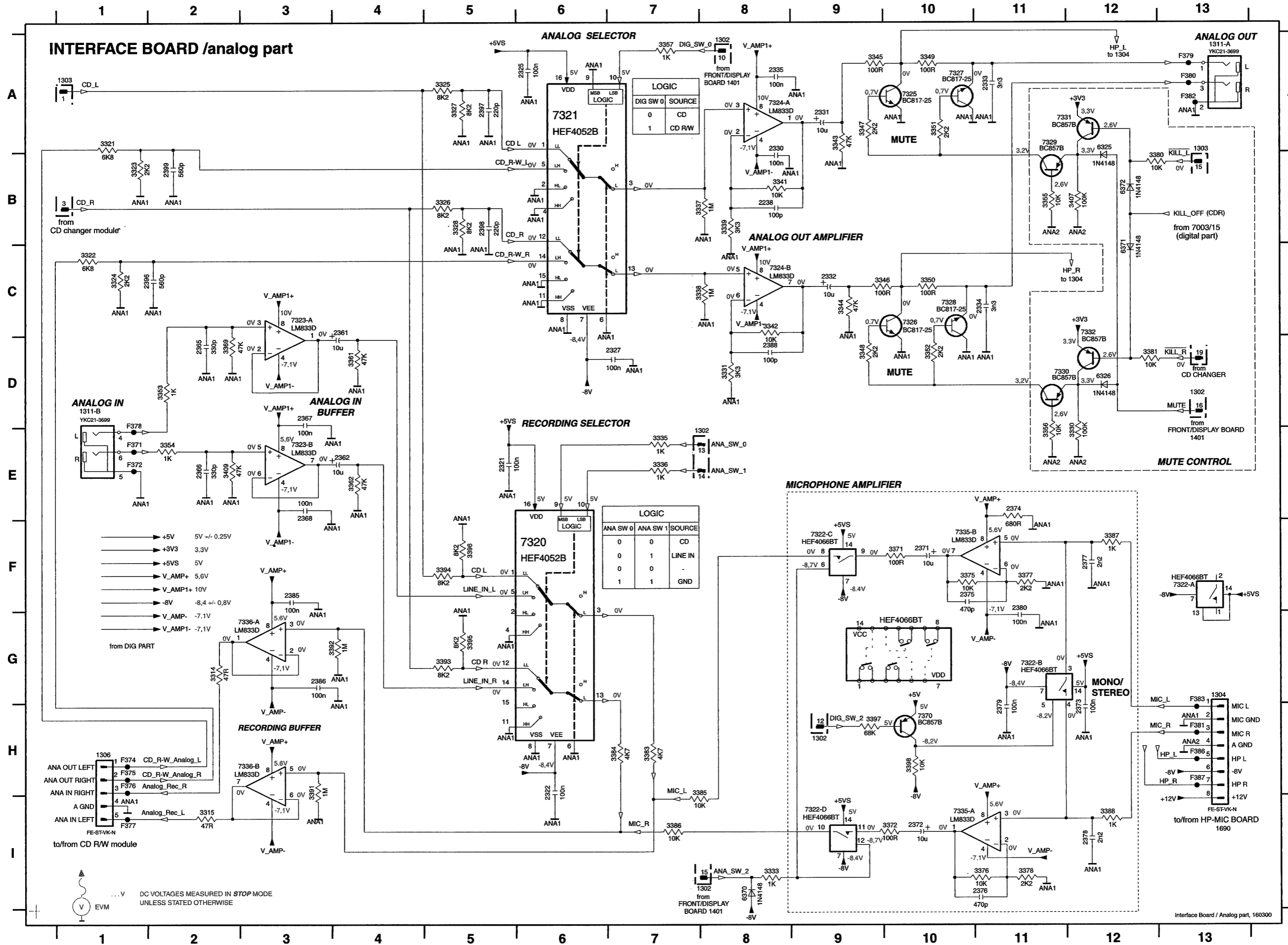


- F618 C8
- F619 C8
- F620 C2
- F621 C4
- F622 C5
- F623 D6
- F624 E2
- F625 E4
- F626 E4
- F627 A4
- F628 E8
- F629 E8
- F630 E6
- F631 G5
- F632 G7
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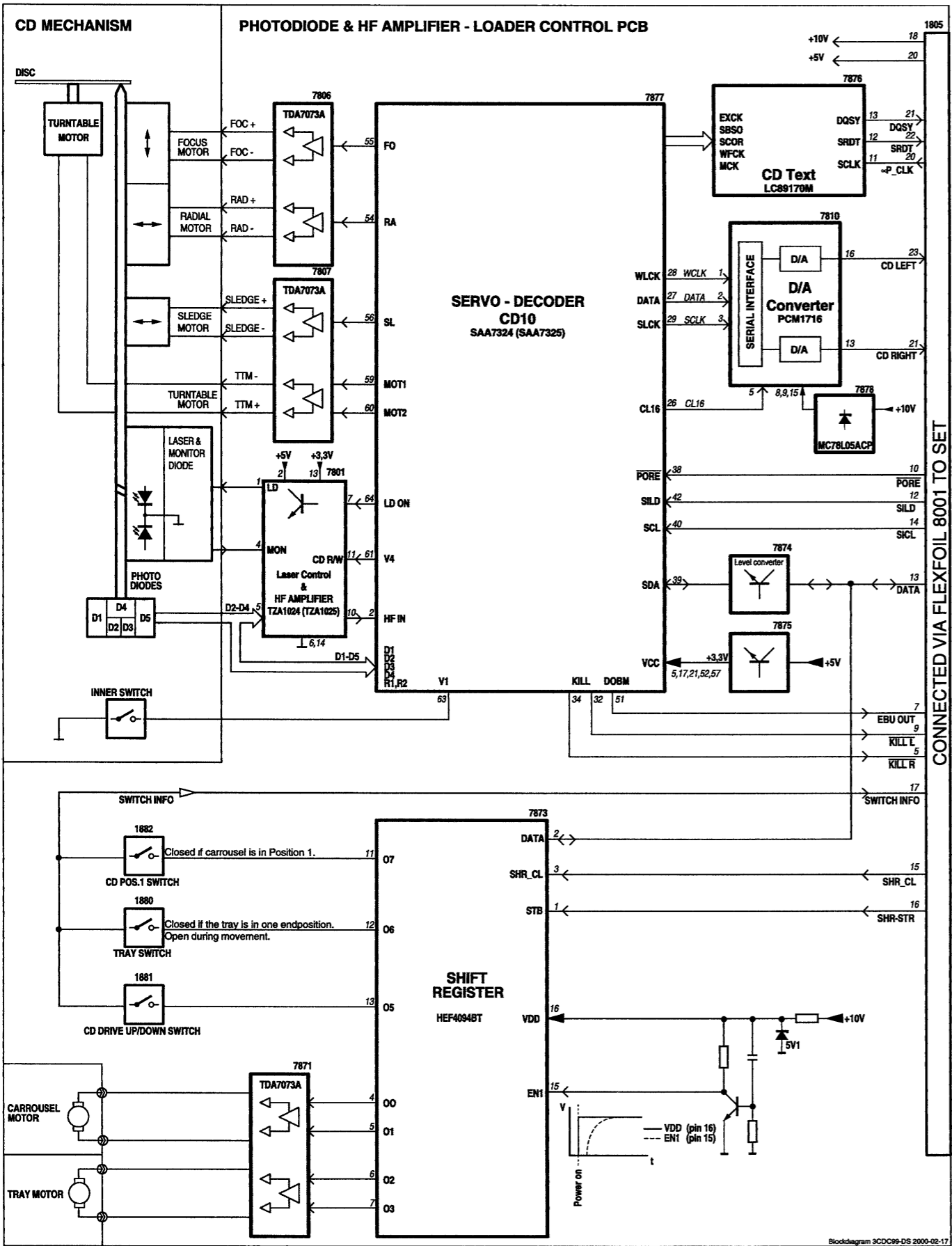
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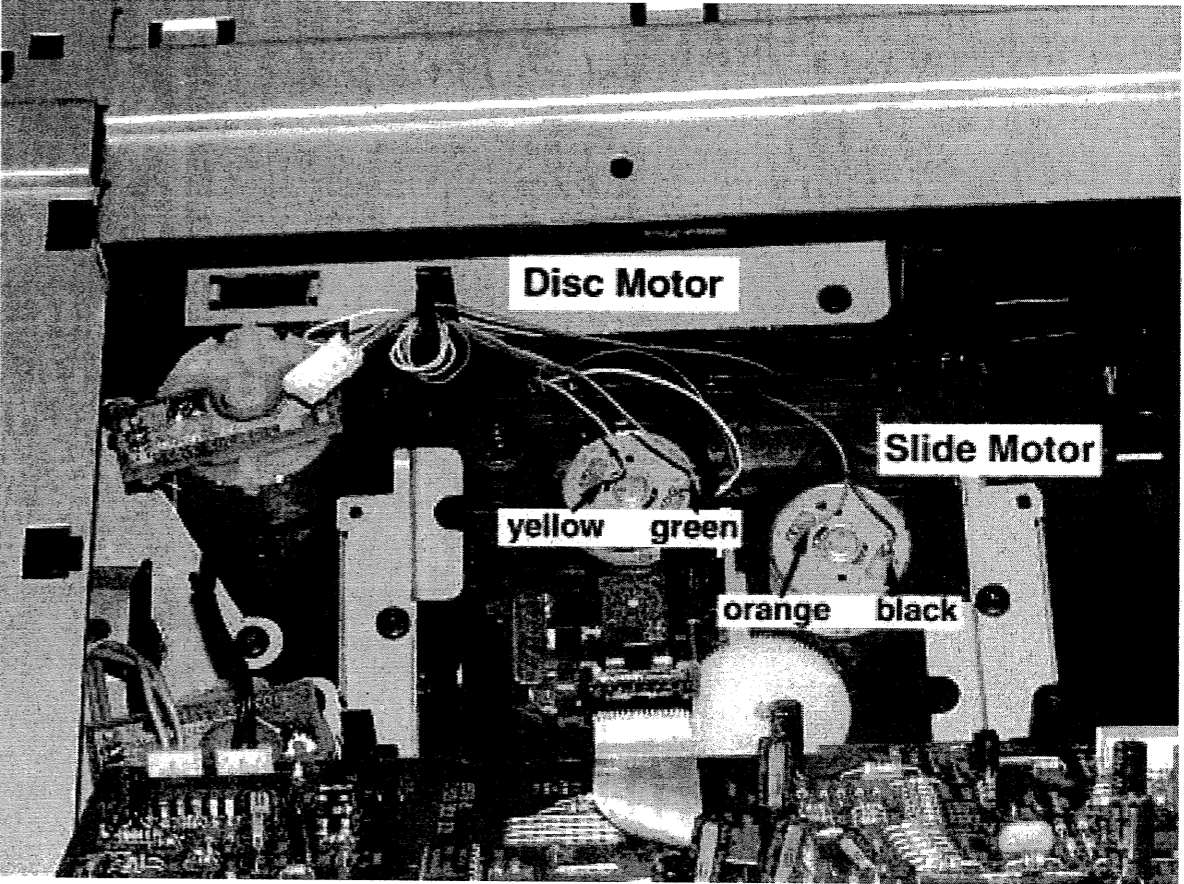
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...V DC VOLTAGES MEASURED IN STOP MODE UNLESS STATED OTHERWISE

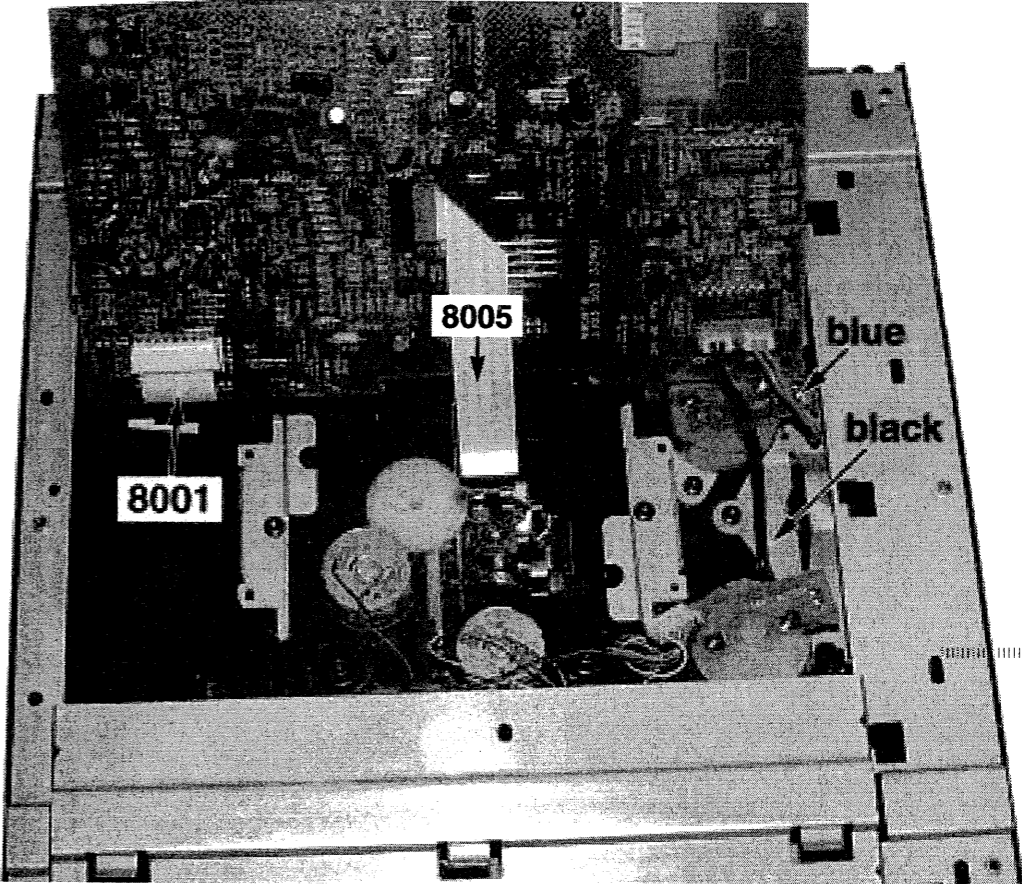
Blockdiagram



Wiring of CD Drive

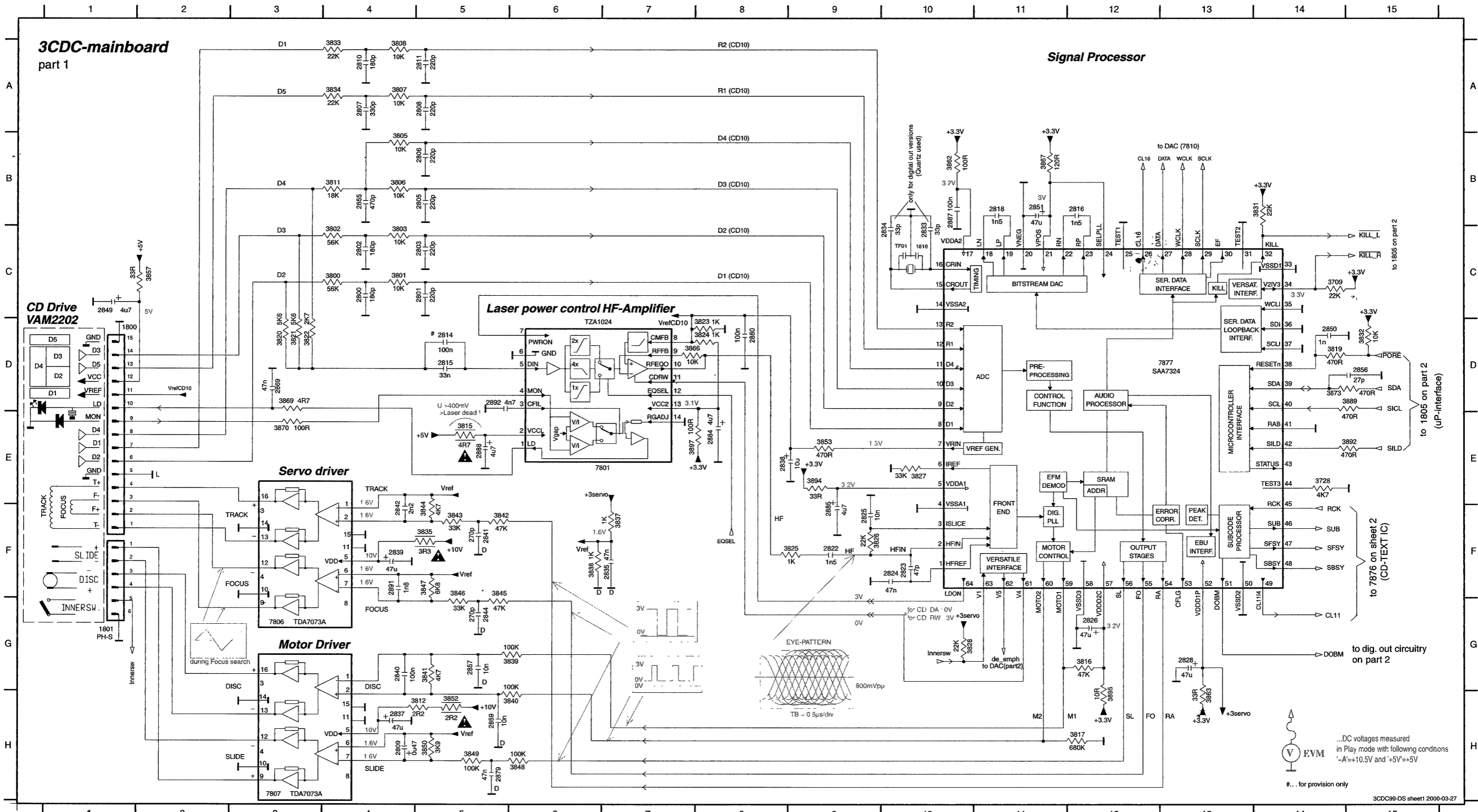


Pict. 1



Pict. 2

1800 D2	2803 C5	2810 A4	2822 F9	2833 C10	2840 G4	2851 B11	2879 H5	2891 F4	3802 C4	3811 B4	3820 D3	3826 F9	3834 A4	3841 G5	3847 F5	3857 C2	3870 E3	3897 E7
1801 G1	2805 B5	2811 A5	2823 F10	2834 C10	2841 F5	2855 B4	2880 D8	2892 D5	3803 C4	3812 H5	3821 D3	3827 E10	3835 F5	3842 F5	3848 H6	3862 B10	3873 D14	7801 E7
1810 C10	2806 B5	2814 D5	2824 F10	2835 F7	2842 F4	2856 D15	2884 E8	3709 C14	3805 B4	3815 E5	3822 D3	3828 G10	3837 F7	3843 F5	3849 H5	3863 H13	3889 D15	7806 G3
2800 C4	2807 A4	2815 D5	2825 F9	2837 H4	2844 G5	2857 G5	2885 F9	3728 E14	3806 B4	3816 G12	3823 D8	3831 B14	3838 F6	3844 F5	3850 H5	3866 D7	3892 E15	7807 H3
2801 C5	2808 A5	2816 B12	2826 G12	2838 E8	2849 C1	2859 H5	2887 B10	3800 C4	3807 A4	3817 H12	3824 D8	3832 D15	3839 G6	3845 F5	3852 H5	3867 B11	3894 E9	7877 D12
2802 C4	2809 H4	2818 B11	2828 G13	2839 F4	2850 D14	2869 D3	2888 E5	3801 C4	3808 A4	3819 D14	3825 F9	3833 A4	3840 H6	3846 F5	3853 E9	3869 D3	3895 H12	



1805 H15	2804 H4	2852 I2	2862 C2	2872 F10	2881 F8	3707 H4	3716 H12	3762 A3	3809 H11	3859 B7	3874 B13	3880 G6	3886 G6	3896 G10	6872 D8	7810 A3	7876 H3	9839 C14
1876 F3	2812 C1	2853 H4	2863 D2	2873 F5	2882 D5	3708 H4	3718 H3	3763 B3	3814 C12	3864 C2	3875 C12	3881 G6	3887 D12	3899 D12	6873 C8	7812 F8	7878 C1	9876 C13
1878 G3	2829 F5	2854 C5	2864 H12	2875 G5	2893 F12	3711 H5	3730 H2	3764 C1	3851 F6	3865 C2	3876 B12	3882 F6	3888 E12	5803 F3	6874 G7	7871 G5	9826 H14	9898 E3
1880 D8	2830 D2	2858 D3	2865 B5	2876 C2	3700 I2	3713 F8	3731 H2	3766 A5	3854 A7	3868 G14	3877 E11	3883 F6	3890 E11	5804 F3	6875 E12	7873 C10	9834 F10	9899 G3
1881 D8	2831 B8	2860 A7	2870 F3	2877 F11	3705 H4	3714 F8	3760 A3	3768 D7	3855 B7	3871 E11	3878 C7	3884 F6	3891 F11	5805 C11	6876 C13	7874 B12	9835 G11	
1882 C8	2832 A8	2861 B7	2871 G3	2878 F11	3706 H4	3715 G8	3761 A3	3769 D7	3858 A7	3872 B13	3879 F6	3885 E6	3893 F11	6871 D8	6877 D12	7875 C12	9838 C14	

