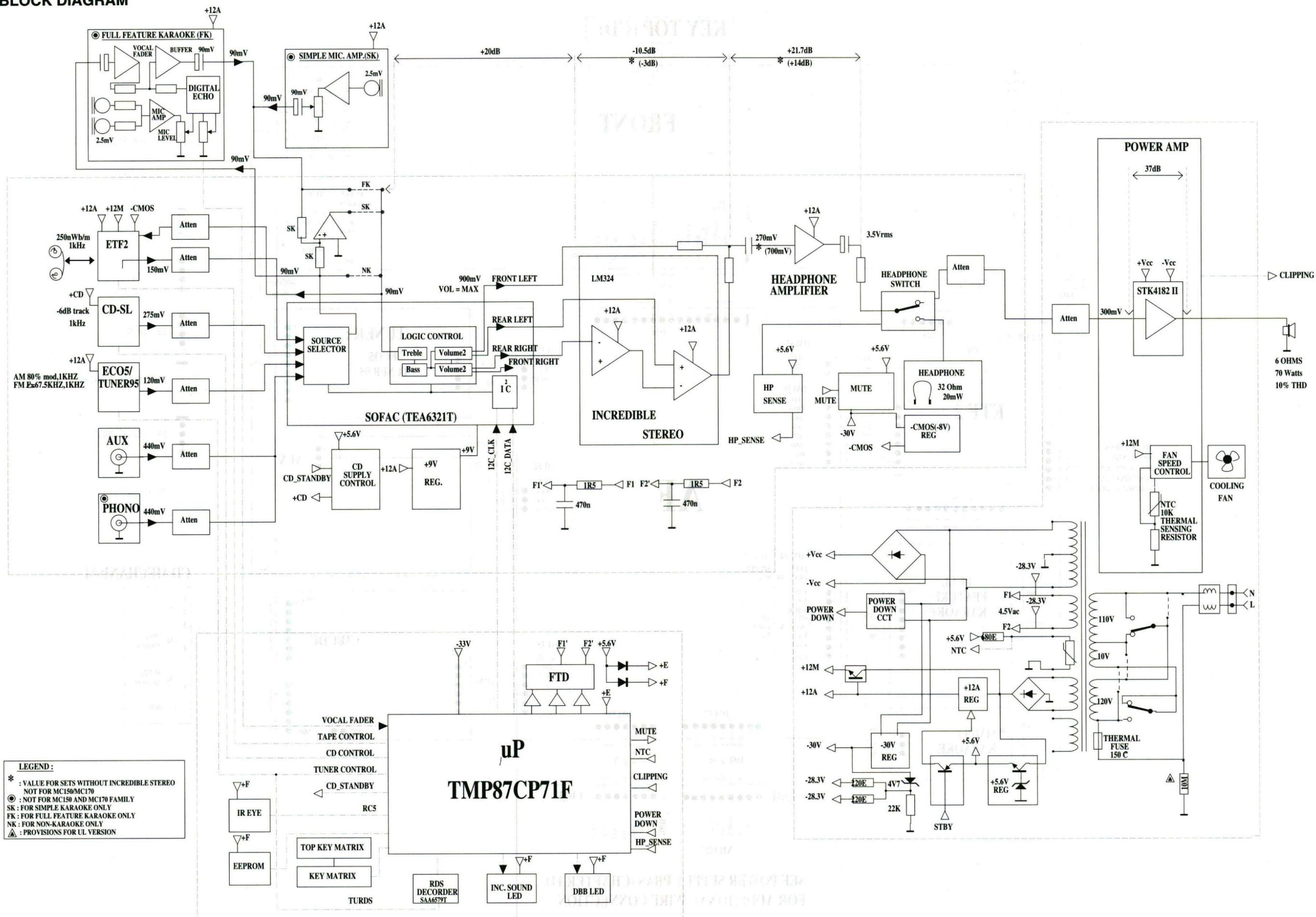


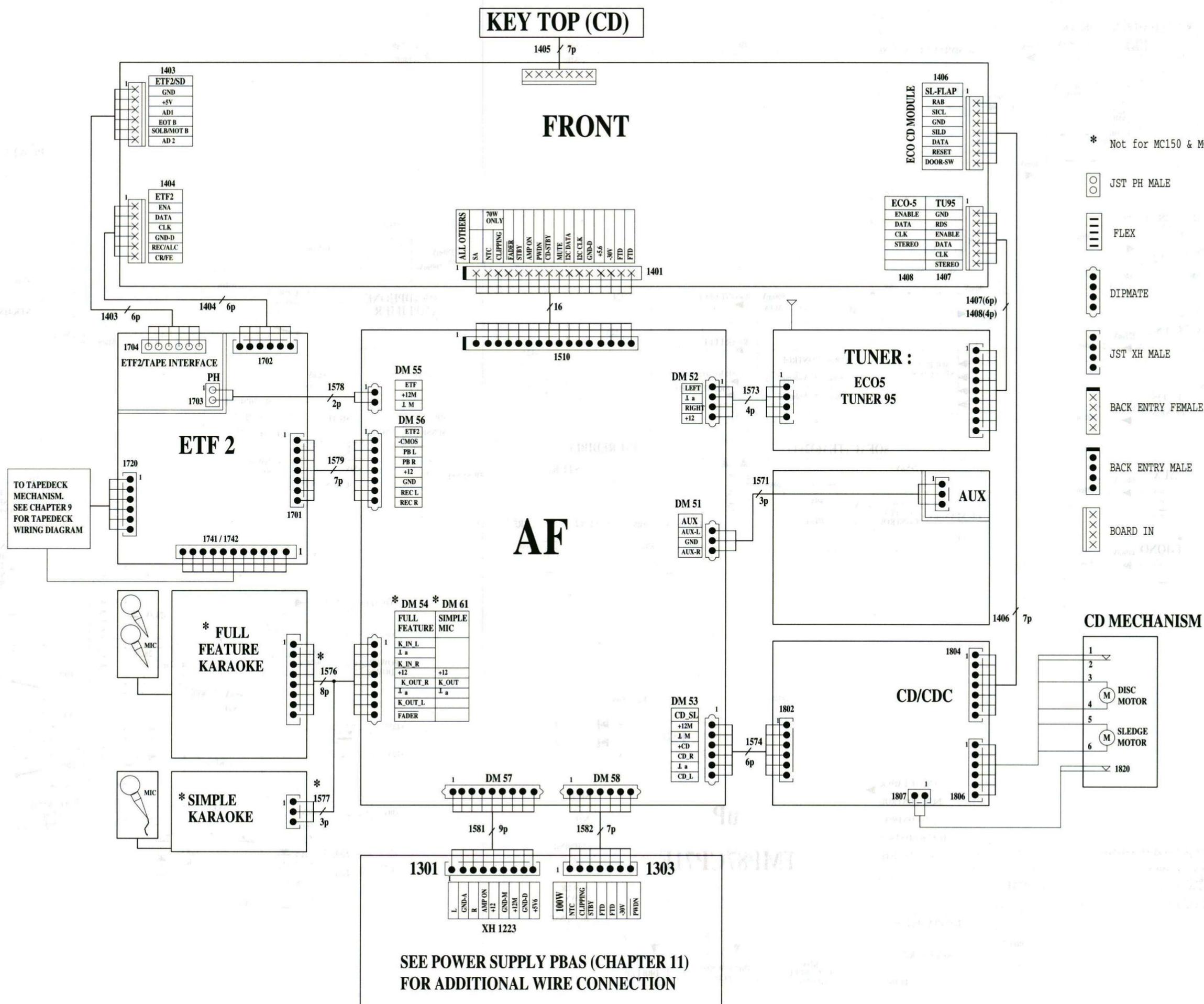
BLOCK DIAGRAM



LEGEND :

- * : VALUE FOR SETS WITHOUT INCREDIBLE STEREO NOT FOR MC150/MC170
- ⊙ : NOT FOR MC150 AND MC170 FAMILY
- SK : FOR SIMPLE KARAOKE ONLY
- FK : FOR FULL FEATURE KARAOKE ONLY
- NK : FOR NON-KARAOKE ONLY
- ⚠ : PROVISIONS FOR UL VERSION

SET WIRING DIAGRAM

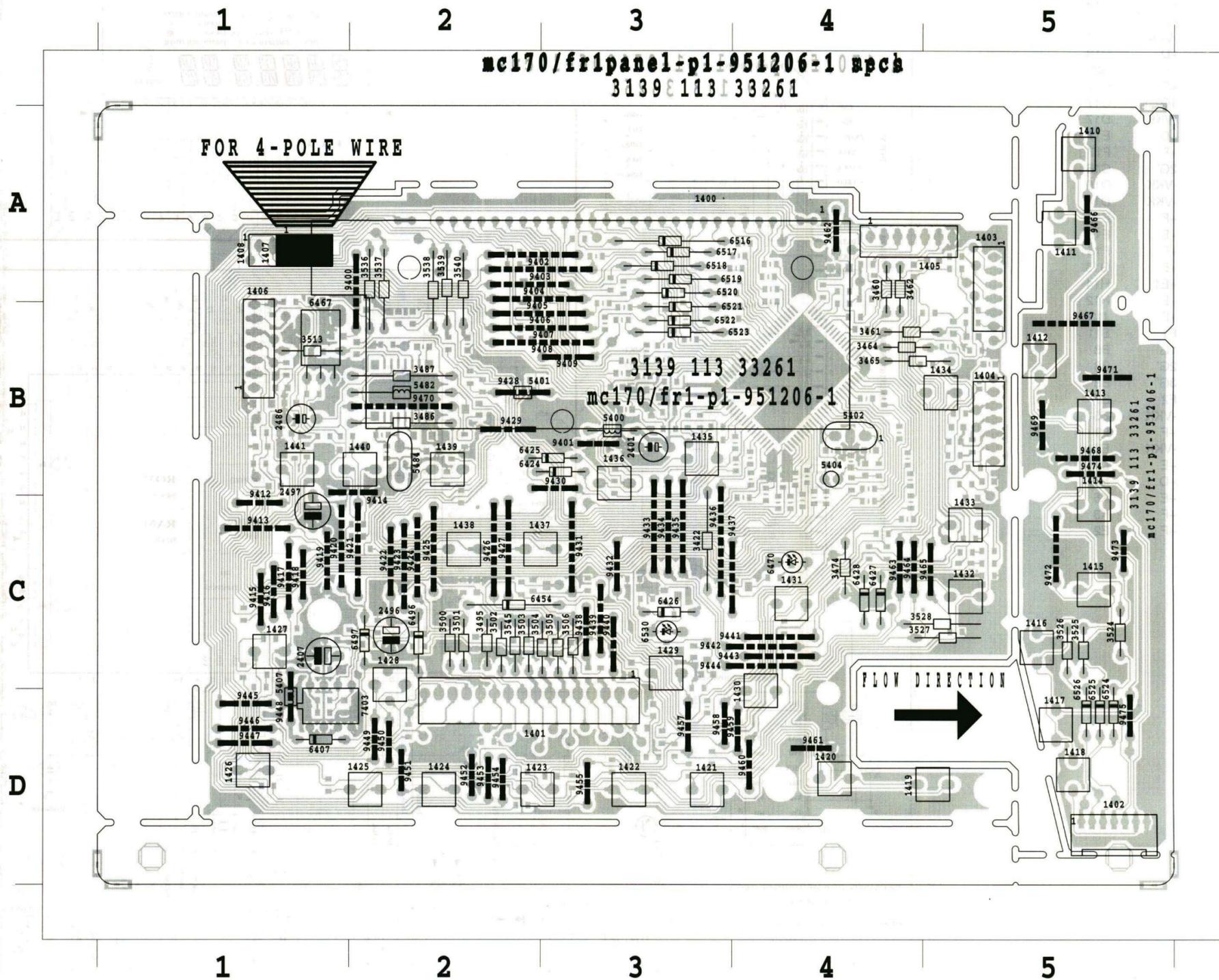
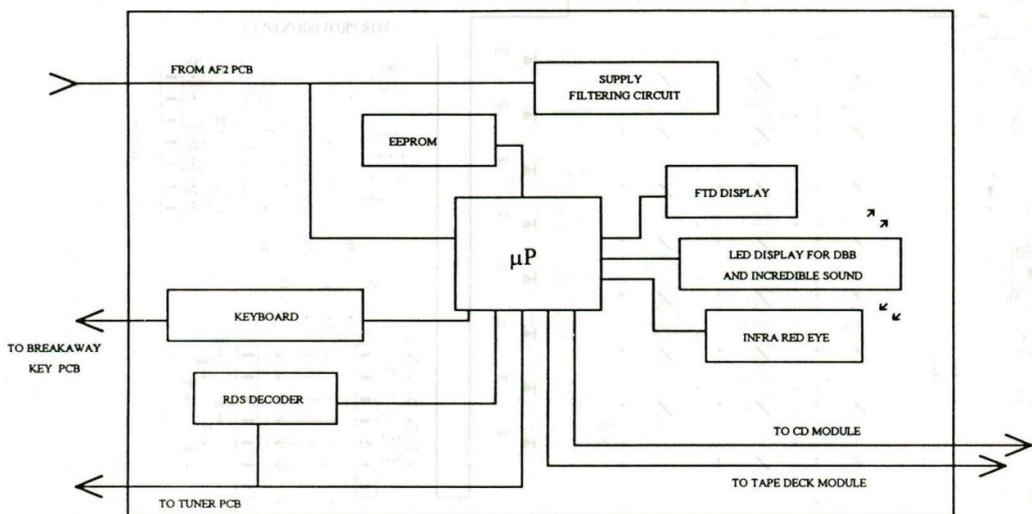


FRONT BOARD

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BLOCK DIAGRAM



1400 A 3	3502 C 2	9412 C 1	9471 B 5
1401 D 2	3503 C 2	9413 C 1	9472 C 5
1402 D 5	3504 C 3	9414 B 2	9473 C 5
1403 A 5	3505 C 3	9415 C 1	9474 B 5
1404 B 5	3506 C 3	9416 C 1	9475 D 5
1405 A 4	3513 B 1	9417 C 1	----
1406 B 1	3524 C 5	9418 C 1	
1407 A 1	3525 C 5	9419 C 1	
1408 A 1	3526 C 5	9420 C 1	
1410 A 5	3527 C 5	9421 C 2	
1411 A 5	3528 C 5	9422 C 2	
1412 B 5	3536 A 2	9423 C 2	
1413 B 5	3537 A 2	9424 C 2	
1414 C 5	3538 A 2	9425 C 2	
1415 C 5	3539 A 2	9426 C 2	
1416 C 5	3540 A 2	9427 C 2	
1417 D 5	3545 C 2	9428 B 2	
1418 D 5	5400 B 3	9429 B 2	
1419 D 5	5401 B 2	9430 B 3	
1420 D 4	5402 B 4	9431 C 3	
1421 D 3	5404 B 4	9432 C 3	
1422 D 3	5407 D 1	9433 C 3	
1423 D 2	5482 B 2	9434 C 3	
1424 D 2	5484 B 2	9435 C 3	
1425 D 2	6407 D 1	9436 C 3	
1426 D 1	6424 B 3	9437 C 4	
1427 C 1	6425 B 3	9438 C 3	
1428 C 2	6426 C 3	9439 C 3	
1429 C 3	6427 C 4	9440 C 3	
1430 D 4	6428 C 4	9441 C 4	
1431 C 4	6454 C 2	9442 C 4	
1432 C 5	6467 B 1	9443 C 4	
1433 C 5	6470 C 4	9444 C 4	
1434 B 5	6496 C 2	9445 D 1	
1435 B 3	6497 C 2	9446 D 1	
1436 B 3	6516 A 3	9447 D 1	
1437 C 2	6517 A 3	9448 D 1	
1438 C 2	6518 A 3	9449 D 2	
1439 B 2	6519 A 3	9450 D 2	
1440 B 2	6520 A 3	9451 D 2	
1441 B 1	6521 B 3	9452 D 2	
2401 B 3	6522 B 3	9453 D 2	
2407 C 1	6523 B 3	9454 D 2	
2486 B 1	6524 D 5	9455 D 3	
2496 C 2	6525 D 5	9457 D 3	
2497 C 1	6526 D 5	9458 D 3	
3422 C 3	6530 C 3	9459 D 4	
3460 A 4	7403 D 1	9460 D 4	
3461 B 4	9400 A 2	9461 D 4	
3462 A 4	9401 B 3	9462 A 4	
3464 B 4	9402 A 2	9463 C 4	
3465 B 4	9403 A 2	9464 C 4	
3474 C 4	9404 A 2	9465 C 5	
3486 B 2	9405 A 2	9466 A 5	
3487 B 2	9406 B 2	9467 B 5	
3495 C 2	9407 B 2	9468 B 5	
3500 C 2	9408 B 3	9469 B 5	
3501 C 2	9409 B 3	9470 B 2	

FRONT BOARD CIRCUIT DIAGRAM

+E, +E', +E1 : +5.6V±0.5V
 +F : +5.6V±0.5V
 1G', 2G', 3G' : Pulses of -30V

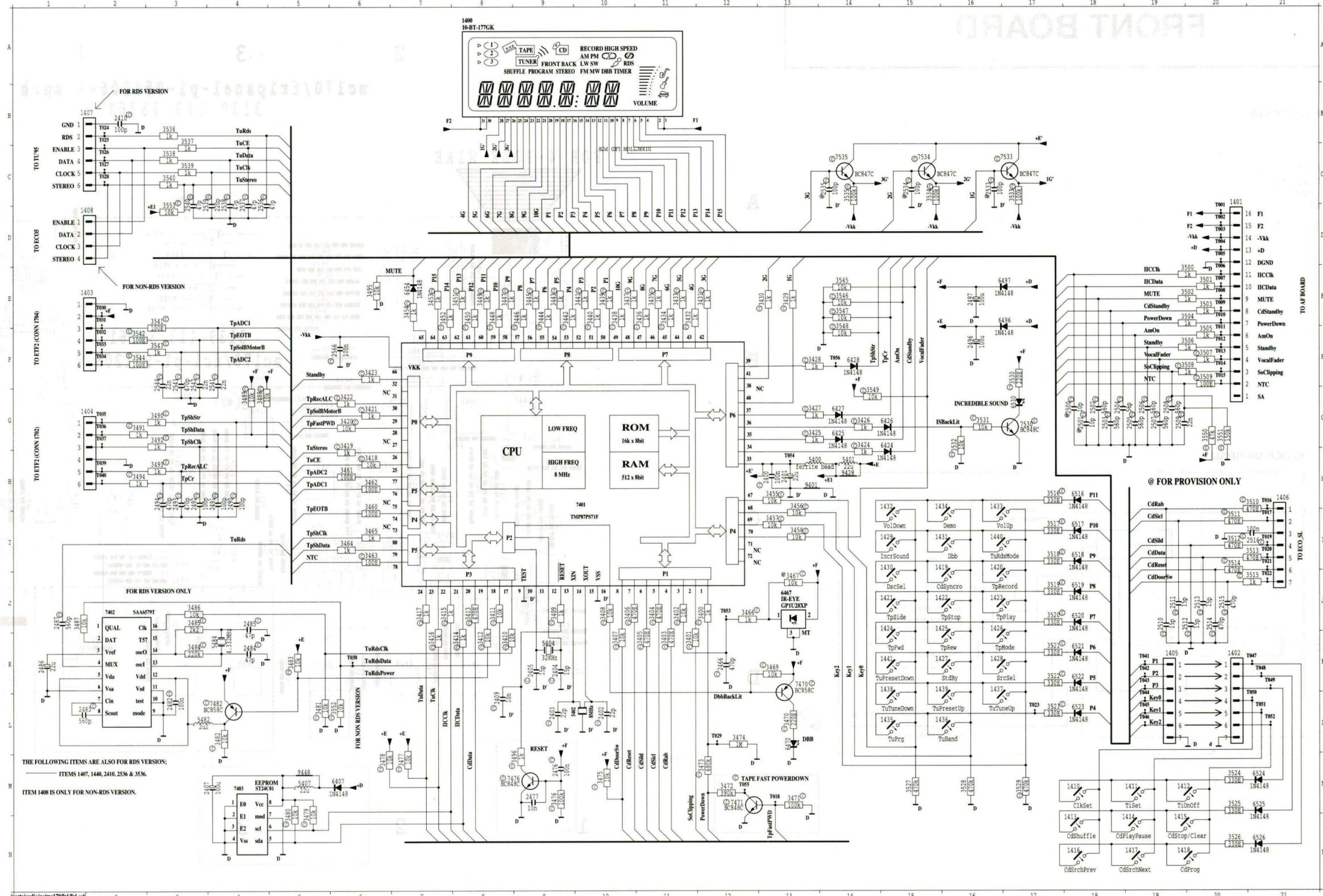
SIGNAL MAPPING

CONNECTOR 1401

Measured in CD Play mode,
 unless otherwise stated.

- | | | |
|----|-----------------------|---|
| 1 | SA | |
| 2 | NTC | 5V |
| 3 | SoClipping | 5V |
| 4 | VocalFader | 4.5V |
| 5 | Standby | 0V (standby)
5V (on) |
| 6 | AmOn | 0V (standby)
3.8V (on) |
| 7 | PowerDown | 8.15 |
| 8 | Cdstandby | 0V (CD stop)
2.3V (CD play) |
| 9 | MUTE | 0V (CD stop)
0.75v (CD play, Tuner)
0.75v (Tape, Aux) |
| 10 | I ² C DATA | 5V |
| 11 | I ² C CLK | 5V |
| 12 | DGNO | 0V |
| 13 | +D | 5.6V |
| 14 | -VKK | -30V |
| 15 | F2 | 6V AC |
| 16 | F1 | 6V AC |

- | | |
|------|-----|
| F1 | D19 |
| F2 | D19 |
| -VKK | D19 |
| +D | D19 |
| +F | G20 |
| +E' | C17 |
| 1G' | C17 |
| -VKK | D17 |
| +D | E17 |
| +F | F17 |
| 2G' | C16 |
| -VKK | D15 |
| -VKK | D14 |
| +F | E15 |
| +E | E15 |
| +F | F15 |
| +E | G15 |
| +E1 | H14 |
| +E' | H12 |
| +F | J13 |
| F1 | B11 |
| 1G' | B8 |
| 2G' | B8 |
| 3G' | B8 |
| F2 | B7 |
| -VKK | E5 |
| +F | L9 |
| +F | E5 |
| +E | L6 |
| +D | M6 |
| +E | K5 |
| +F | K3 |
| +F | E2 |

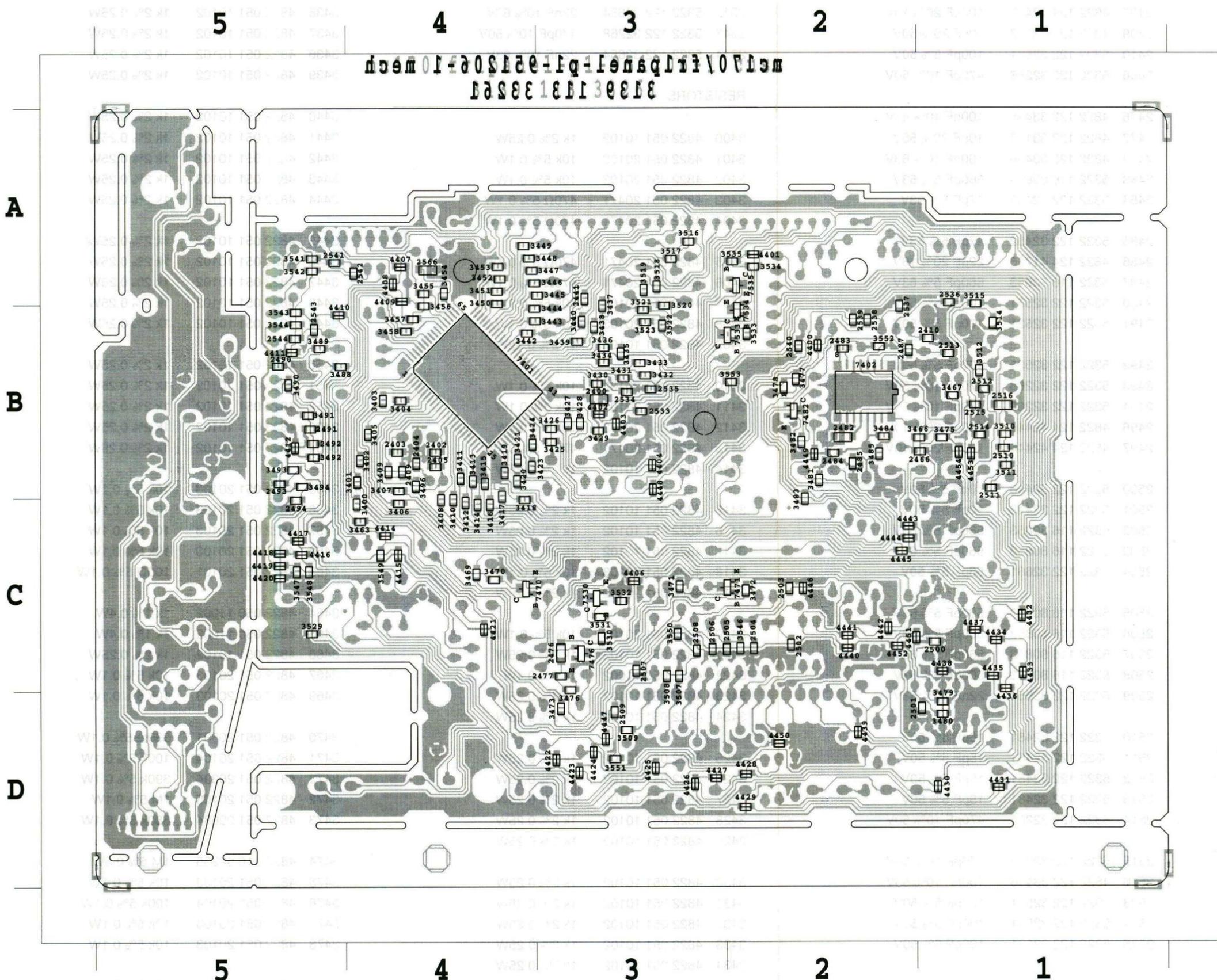


THE FOLLOWING ITEMS ARE ALSO FOR RDS VERSION:
 ITEMS 1407, 1440, 2410, 2536 & 3536.
 ITEM 1408 IS ONLY FOR NON-RDS VERSION.

CHIP LAYOUT

PARTLIST FRONT BOARD

PARTLIST FRONT BOARD



2400 B 3	3408 C 4	3475 B 1	4406 C 3
2402 B 4	3409 B 4	3476 C 3	4407 A 4
2403 B 4	3410 C 4	3477 B 2	4408 A 4
2404 B 4	3411 B 4	3478 B 2	4409 A 4
2405 B 4	3412 C 4	3479 D 1	4410 B 5
2409 B 4	3413 B 4	3480 D 1	4411 B 5
2410 A 1	3414 C 4	3481 B 2	4412 B 5
2466 B 1	3415 B 4	3482 B 2	4413 B 4
2476 C 3	3416 C 4	3483 C 2	4414 C 4
2477 C 3	3417 B 4	3484 B 2	4415 C 4
2482 B 2	3418 C 4	3485 B 2	4416 C 5
2483 B 2	3419 B 4	3488 B 5	4417 C 5
2484 B 2	3420 B 4	3489 B 4	4418 C 5
2485 B 2	3421 B 4	3490 B 5	4419 C 5
2487 B 2	3423 B 4	3491 B 5	4420 C 5
2490 B 5	3424 B 4	3492 B 5	4421 C 4
2491 B 5	3425 B 3	3493 B 5	4422 D 3
2492 B 5	3426 B 3	3494 B 5	4423 D 3
2493 B 5	3427 B 3	3507 C 3	4424 D 3
2494 C 5	3428 B 3	3508 C 3	4425 D 3
2500 C 2	3429 B 3	3509 D 3	4426 D 3
2501 C 2	3430 B 3	3510 B 1	4427 D 3
2502 C 2	3431 B 3	3511 B 1	4428 D 2
2503 C 2	3432 B 3	3512 B 1	4429 D 2
2504 C 2	3433 B 3	3514 B 1	4430 D 1
2505 C 2	3434 B 3	3515 B 1	4431 D 1
2506 C 3	3435 B 3	3516 A 3	4432 C 1
2507 C 3	3436 B 3	3517 A 3	4433 C 1
2508 C 3	3437 B 3	3518 A 3	4434 C 1
2509 D 3	3438 B 3	3519 A 3	4435 C 1
2510 B 1	3439 B 3	3520 B 3	4436 C 1
2511 B 1	3440 B 3	3521 B 3	4437 C 1
2512 B 1	3441 A 3	3522 B 3	4438 C 1
2513 B 1	3442 B 4	3523 B 3	4439 D 2
2514 B 1	3443 B 4	3529 C 5	4440 C 2
2515 B 1	3444 B 4	3530 C 3	4441 C 2
2516 B 1	3445 A 3	3531 C 3	4442 C 2
2533 B 3	3446 A 4	3532 C 3	4443 C 2
2534 B 3	3447 A 4	3533 B 2	4444 C 2
2535 B 3	3448 A 4	3534 A 2	4445 C 2
2536 A 1	3449 A 4	3535 A 2	4446 C 2
2537 B 2	3450 A 4	3541 A 5	4447 D 3
2538 B 2	3451 A 4	3542 A 5	4448 B 3
2539 B 2	3452 A 4	3543 B 5	4449 B 2
2540 B 2	3453 A 4	3544 B 5	4450 D 2
2541 A 5	3454 A 4	3546 C 2	4451 C 2
2542 A 4	3455 A 4	3547 C 5	4452 C 2
2543 B 5	3456 A 4	3548 C 5	7401 B 4
2544 B 5	3457 B 4	3549 C 4	7402 B 2
2566 A 4	3458 B 4	3550 C 3	7470 C 4
3400 C 4	3463 C 4	3551 D 3	7471 C 3
3401 B 4	3466 B 1	3552 B 2	7476 C 3
3402 B 4	3467 B 1	3553 B 2	7482 B 2
3403 B 4	3469 C 4	4400 B 2	7530 C 3
3404 B 4	3470 C 4	4401 A 2	7533 B 2
3405 B 4	3471 C 2	4402 B 3	7534 B 2
3406 C 4	3472 C 2	4403 B 3	7535 A 2
3407 B 4	3473 D 3	4404 B 3	----

PARTSLIST FRONT BOARD

RESISTORS			RESISTORS		
3484	4822 051 20224	220k 5% 0.1W	3532	4822 051 20103	10k 5% 0.1W
3485	4822 051 20222	2k2 5% 0.1W	3533	4822 051 20104	100k 5% 0.1W
3486	4822 116 83864	10k 5% 0.5W	3534	4822 051 20104	100k 5% 0.1W
3487	4822 116 83864	10k 5% 0.5W	3535	4822 051 20104	100k 5% 0.1W
3488	4822 051 20103	10k 5% 0.1W	3536	4822 050 11002	1k 1% 0.4W
3489	4822 051 20103	10k 5% 0.1W	3537	4822 050 11002	1k 1% 0.4W
3490	4822 051 10102	1k 2% 0.25W	3538	4822 050 11002	1k 1% 0.4W
3491	4822 051 10102	1k 2% 0.25W	3539	4822 050 11002	1k 1% 0.4W
3492	4822 051 10102	1k 2% 0.25W	3540	4822 050 11002	1k 1% 0.4W
3493	4822 051 10102	1k 2% 0.25W	3541	4822 051 20101	100Ω 5% 0.1W
3494	4822 051 10102	1k 2% 0.25W	3542	4822 051 20101	100Ω 5% 0.1W
3495	4822 116 83864	10k 5% 0.5W	3543	4822 051 10102	1k 2% 0.25W
3496	4822 051 10102	1k 2% 0.25W	3544	4822 051 20101	100Ω 5% 0.1W
3500	4822 050 11002	1k 1% 0.4W	3545	4822 116 83864	10k 5% 0.5W
3501	4822 050 11002	1k 1% 0.4W	3546	4822 051 20103	10k 5% 0.1W
3502	4822 050 11002	1k 1% 0.4W	3547	4822 051 20103	10k 5% 0.1W
3503	4822 050 11002	1k 1% 0.4W	3548	4822 051 20103	10k 5% 0.1W
3504	4822 050 11002	1k 1% 0.4W	3549	4822 051 20103	10k 5% 0.1W
3505	4822 050 11002	1k 1% 0.4W	3550	4822 051 20473	47k 5% 0.1W
3506	4822 050 11002	1k 1% 0.4W	3551	4822 051 20154	150k 5% 0.1W
3507	4822 051 10102	1k 2% 0.25W	3552	4822 051 20103	10k 5% 0.1W
3508	4822 051 10102	1k 2% 0.25W	3553	4822 051 20103	10k 5% 0.1W
3509	4822 051 20101	100Ω 5% 0.1W	4400	4822 051 20008	0Ω jumper
3510	4822 051 20471	470Ω 5% 0.1W	4401	4822 051 20008	0Ω jumper
3511	4822 051 20471	470Ω 5% 0.1W	4402	4822 051 20008	0Ω jumper
3512	4822 051 20471	470Ω 5% 0.1W	4403	4822 051 20008	0Ω jumper
3513	4822 116 52224	470Ω 5% 0.5W	4404	4822 051 20008	0Ω jumper
3514	4822 051 20471	470Ω 5% 0.1W	4406	4822 051 20008	0Ω jumper
3515	4822 051 10102	1k 2% 0.25W	4407	4822 051 20008	0Ω jumper
3516	4822 051 20331	330Ω 5% 0.1W	4408	4822 051 20008	0Ω jumper
3517	4822 051 20331	330Ω 5% 0.1W	4409	4822 051 20008	0Ω jumper
3518	4822 051 20331	330Ω 5% 0.1W	4410	4822 051 20008	0Ω jumper
3519	4822 051 20331	330Ω 5% 0.1W	4411	4822 051 20008	0Ω jumper
3520	4822 051 20331	330Ω 5% 0.1W	4412	4822 051 20008	0Ω jumper
3521	4822 051 20331	330Ω 5% 0.1W	4413	4822 051 20008	0Ω jumper
3522	4822 051 20331	330Ω 5% 0.1W	4414	4822 051 20008	0Ω jumper
3523	4822 051 20331	330Ω 5% 0.1W	4415	4822 051 20008	0Ω jumper
3524	4822 116 52219	330Ω 5% 0.5W	4416	4822 051 20008	0Ω jumper
3525	4822 116 52219	330Ω 5% 0.5W	4417	4822 051 20008	0Ω jumper
3526	4822 116 52219	330Ω 5% 0.5W	4418	4822 051 20008	0Ω jumper
3527	4822 116 52285	470k 5% 0.5W	4419	4822 051 20008	0Ω jumper
3528	4822 116 52285	470k 5% 0.5W	4420	4822 051 20008	0Ω jumper
3529	4822 051 20474	470k 5% 0.1W	4421	4822 051 20008	0Ω jumper
3530	4822 051 20331	330Ω 5% 0.1W	4422	4822 051 20008	0Ω jumper
3531	4822 051 20103	10k 5% 0.1W	4423	4822 051 20008	0Ω jumper

