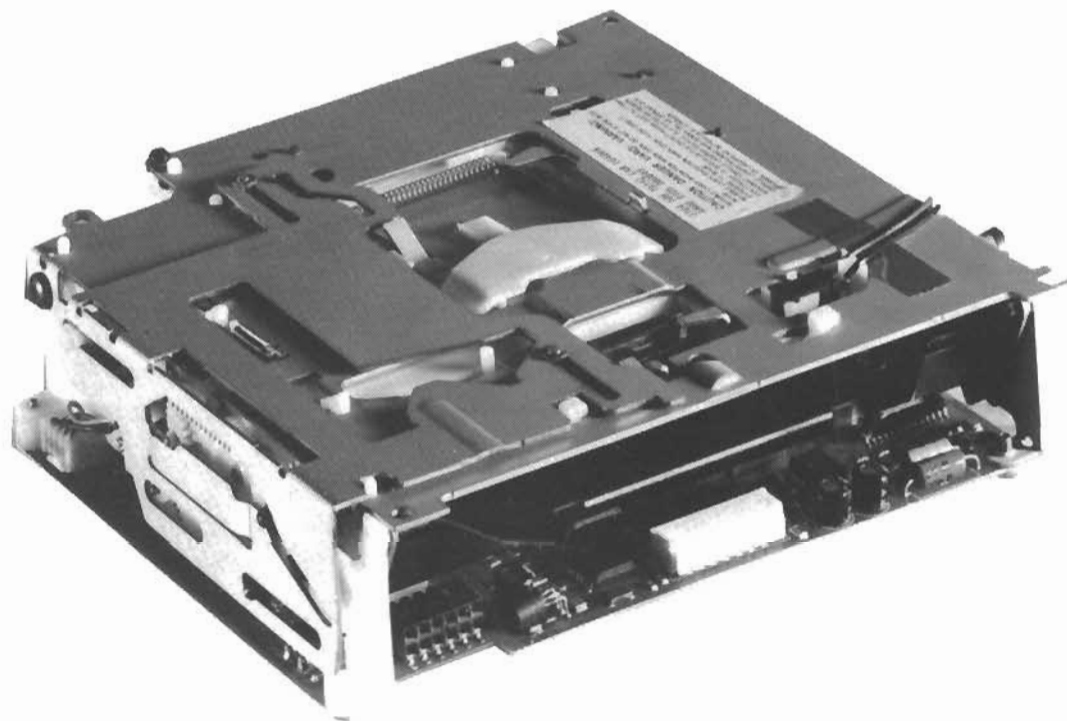


Service
Service
Service

Service Manual

12 V 



**CLASS 1
LASER PRODUCT**

CONTENTS

Contents, Specification, Notes	page 2
Wiring diagram / Measurements	page 3
Oszillograms	page 4
Adaption of CDM-9	page 5
Technician remarks	page 6
PCB - Layout	page 7
Measuring-point allocation	page 8
Decoder	page 9
DA-converter	page 10
Discmotor control / Loadingmotor control . .	page 11
Power supply	page 12
Main control unit	page 13
Compression	page 14
Exploded view / Lubrication instructions . .	page 15
Partslist	page 16

SPEZIFICATION

Operating voltage:	10 V - 16 V
Operating temperature:	15°C - +70°C
Accesstime:	max. 2sec (inner to outer track)
Load- / Eject- time:	max. 4sec
Mounting angle (see page 5):	-10° - +20° +30° - +60° (optional)
Playability:	
- Testdisc 5A (4822 397 30096):	wedges 900m (track 9, time 19'59) blackdots - 800µm (track 17, time 40'04) fingerprints (track 18 + 19, time 42'46 + 45'06)
- Scewdisc (4822 701 11922):	first 10min without interruptions
- Eccentricity disc (4822 701 11923):	first 10min without interruptions

NOTE: Switch off power supply before connect and disconnect CDM 9 - Module and set (danger of shortcircuit)!

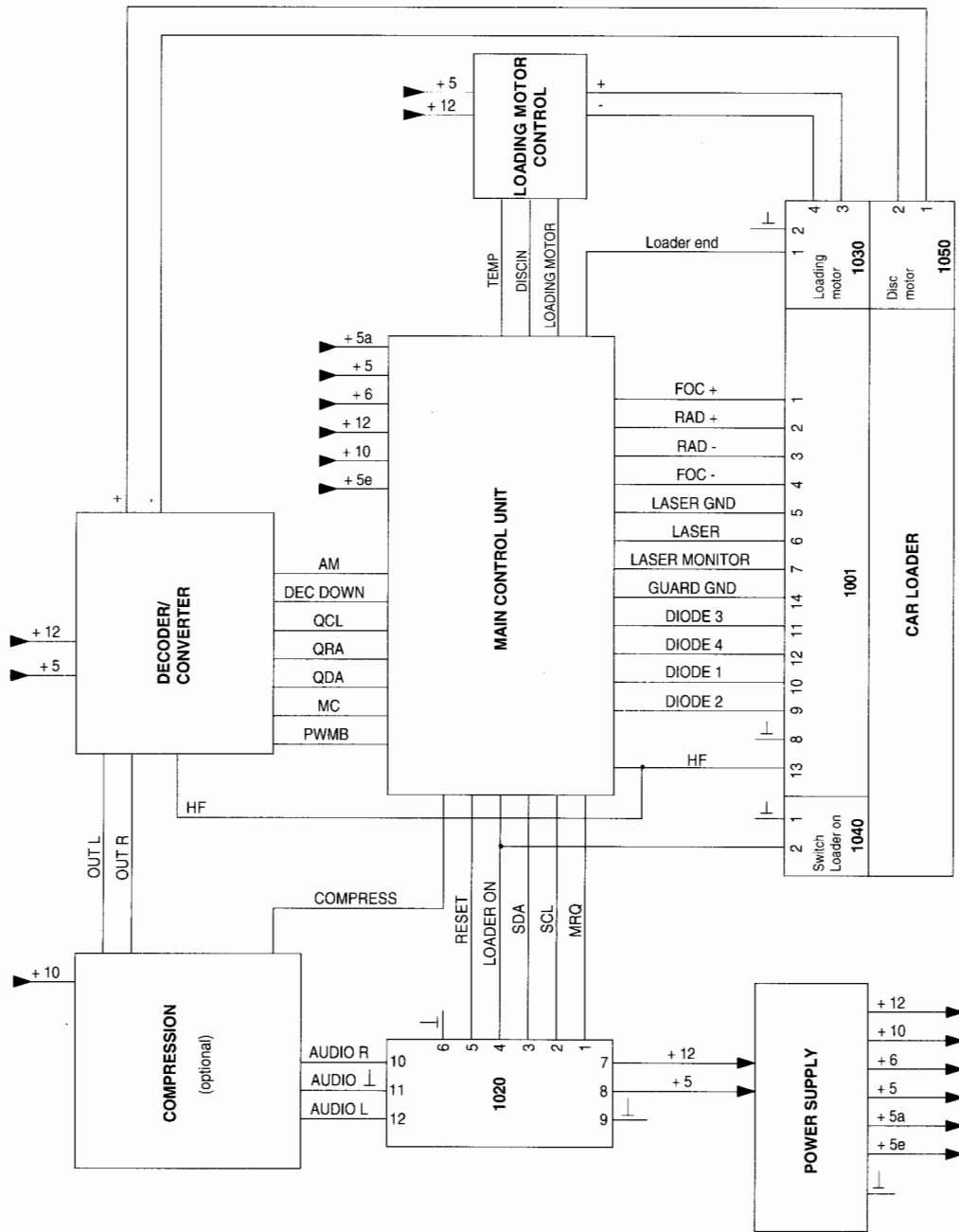
NOTE: Use the coded plugs and sockets to build the needed extension cables.

NOTE: The chassis of CDM 9 is not grounded when separated from the set.

NOTE: Only PLAY but no LOAD and EJECT can be realized in upside-down position.

NOTE: Measurements are done in PLAY (P), STANDBY (S) and DISC OUT (O),
DC → GND.

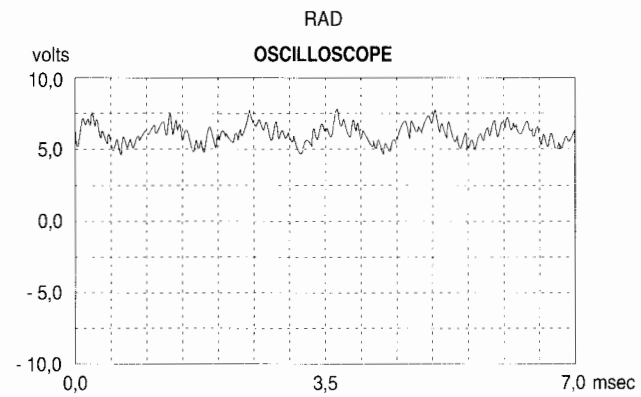
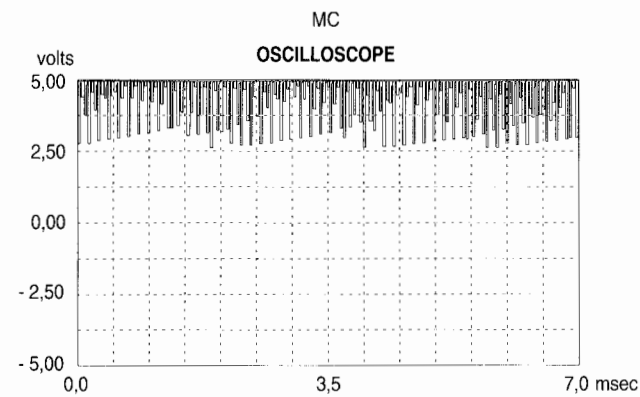
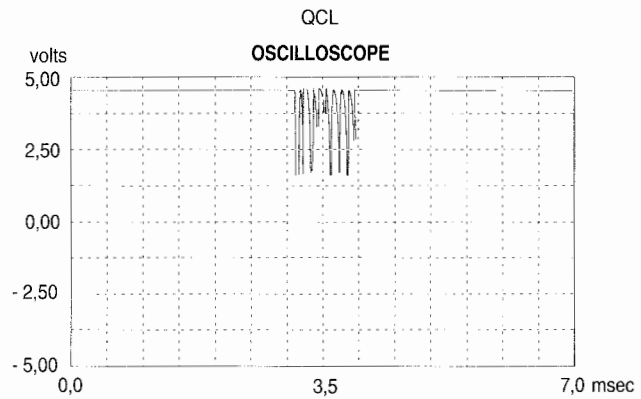
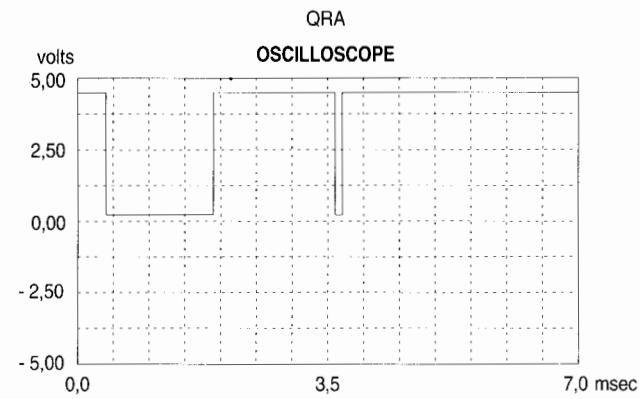
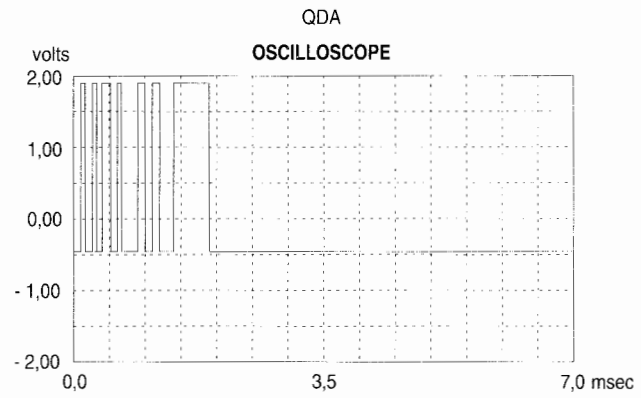
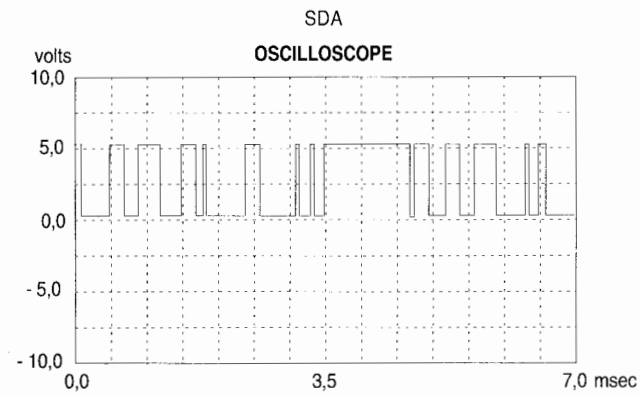
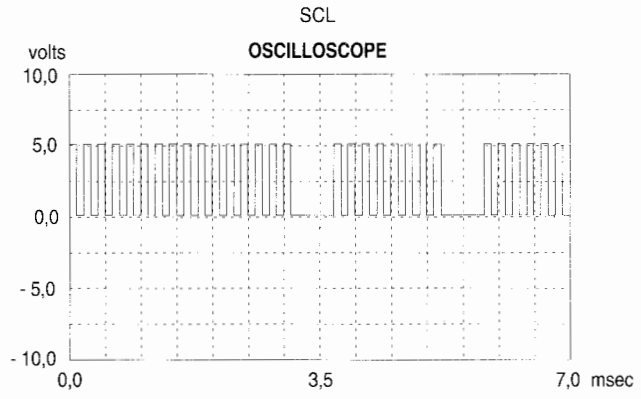
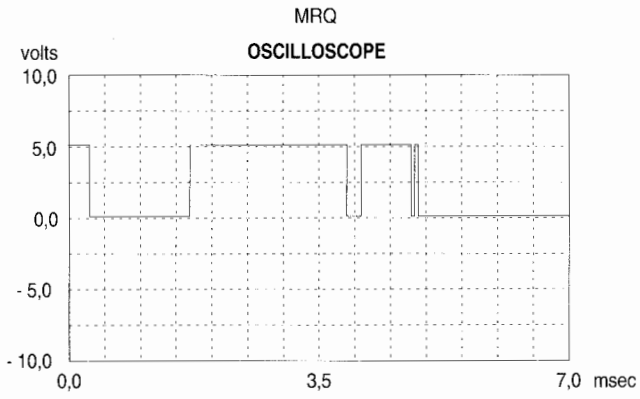
Wiring Diagram



all values measured in PLAY (P), DC - GND

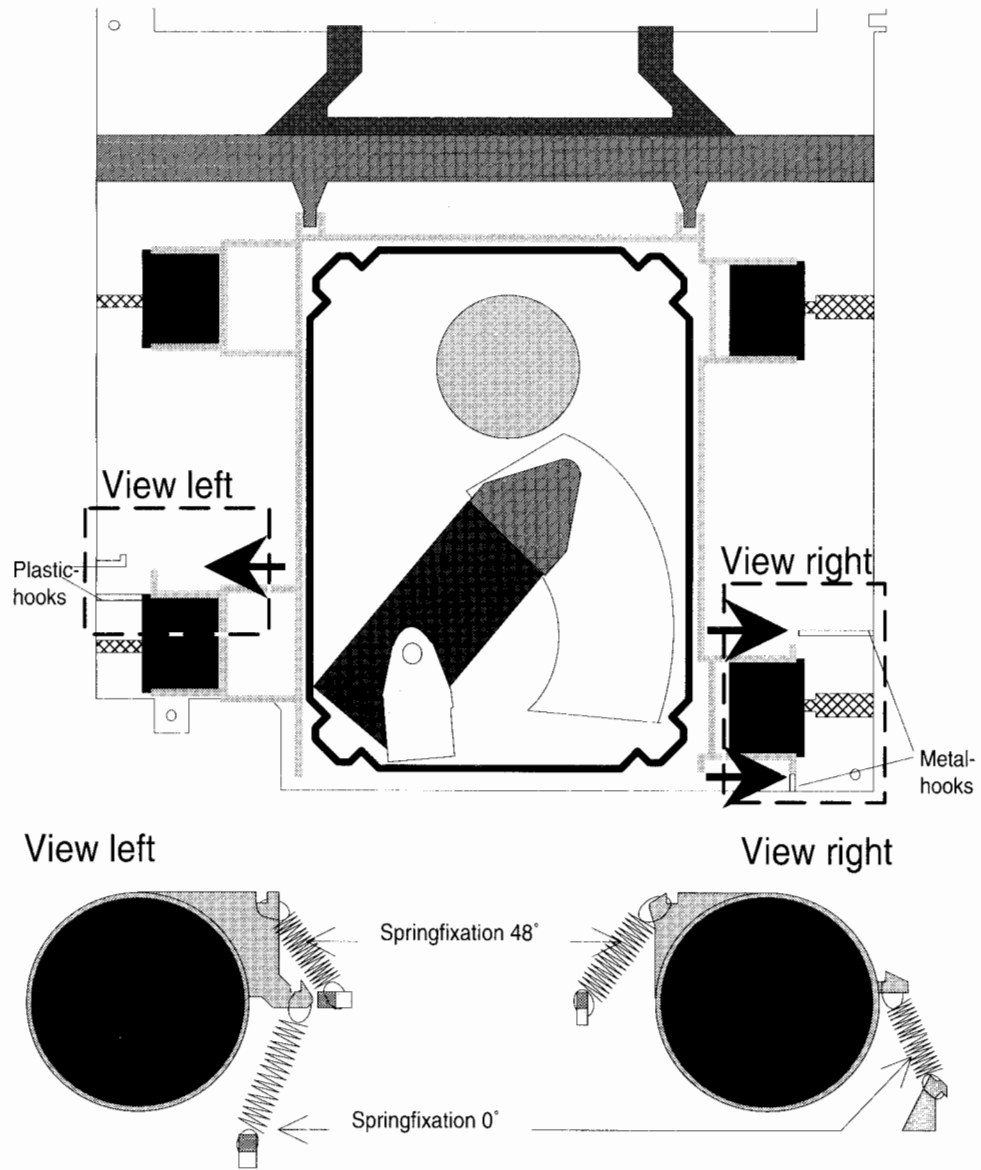
- + 5 = 5,0 V
- + 5a = 4,7 V
- + 5e = 5,0 V
- + 6 = 6,0 V
- + 10 = 8,4 V
- + 12 = 12,0 V
- AUDIO-LEVEL (L+R) = 0,0 V (1,2 V_{eff})
- MRQ = see oscillogram MRQ
- SCL = see oscillogram SCL
- SDA = see oscillogram SDA
- LOADER ON = 5,0 V
- RESET = 30 mV
- COMPRESS = HIGH when COMPRESS OFF,
LOW when COMPRESS ON
- HF = 3,1 V (POS.1001, PIN 13)
- QDA = see oscillogram QDA
- QRA = see oscillogram QRA
- QCL = see oscillogram QCL
- PWMB = 5,0 V (intermittend
data when focussing)
- DEC. DOWN = 0,0 V

- AM = 5,0 V
- MC = see oscillogram MC
- TEMP = 3,9 V (0,0 V if T ≥ 70°C)
- DISC MOTOR + = 5,4 V
- DISC MOTOR - = 4,8 V
- LOADING MOTOR = 3,4 V (5,0 V load, 0,0 V eject)
- LOADING MOTOR + = 3,7 V (0,9 V load, 6,3 V eject)
- LOADING MOTOR - = 3,7 V (6,3 V load, 0,9 V eject)
- LOADER END = 0,0 V (5,0 V CD OFF)
- DISCIN = 3,8 V (0,0 V during load)
- FOC + = 2,4 V
- FOC - = 2,6 V
- RAD + = see oscillogram RAD
- RAD - = see oscillogram RAD
- LASER GND = 0,0 V
- LASER = 2,0 V
- LASER MONITOR = 0,2 V
- GUARD GND = 0,0 V
- DIODE 1 = 1,3 V
- DIODE 2 = 1,3 V
- DIODE 3 = 1,3 V
- DIODE 4 = 1,3 V



Adaptation of CDM 9 for playability at a mounting angle of 30° to 60°

Take the rear springs from the suspensions and put them in the additional fixation hooks as shown in the figure below (see also service-information A92 - 402).



Technician remarks



1

2

3

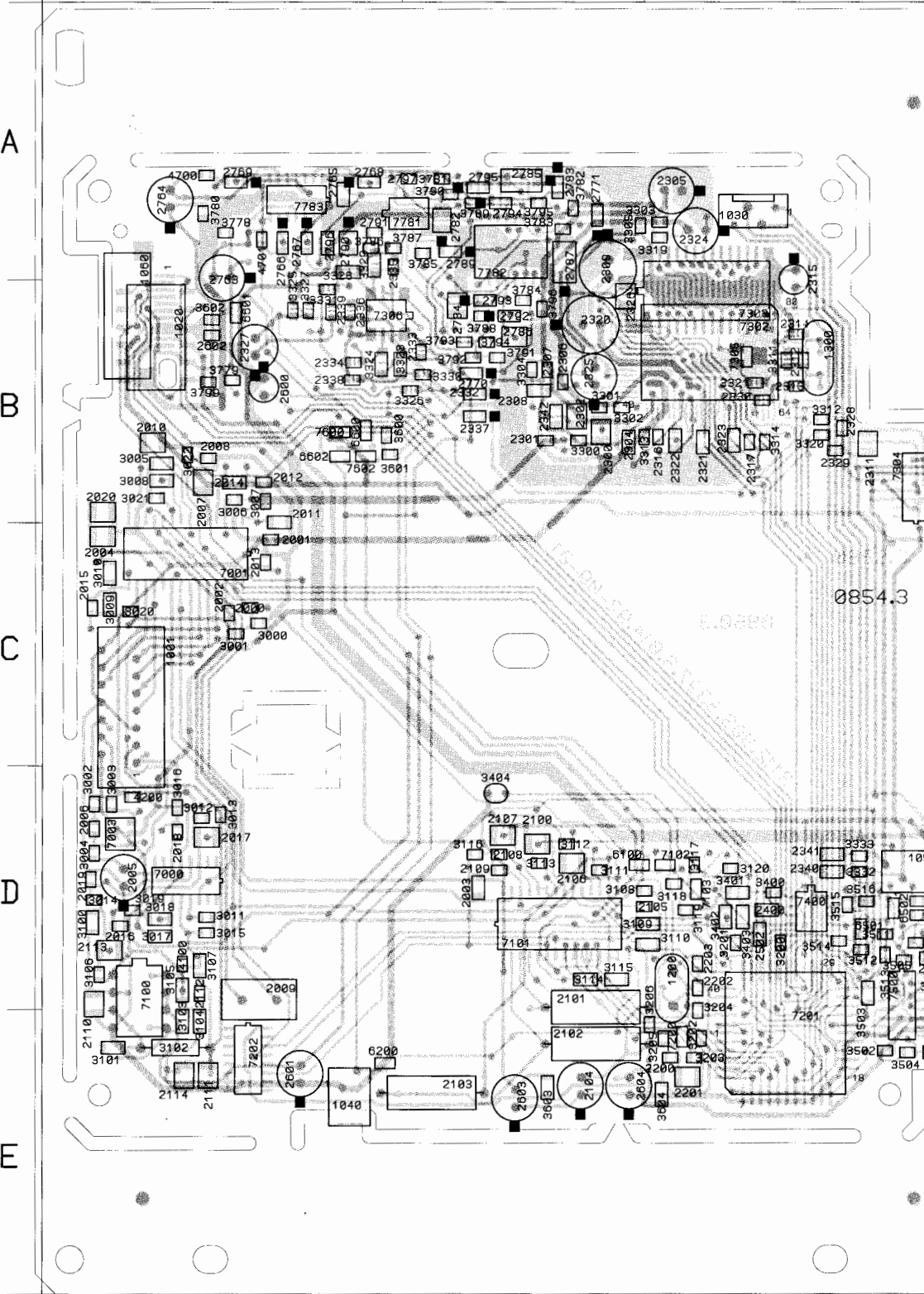
A

B

C

D

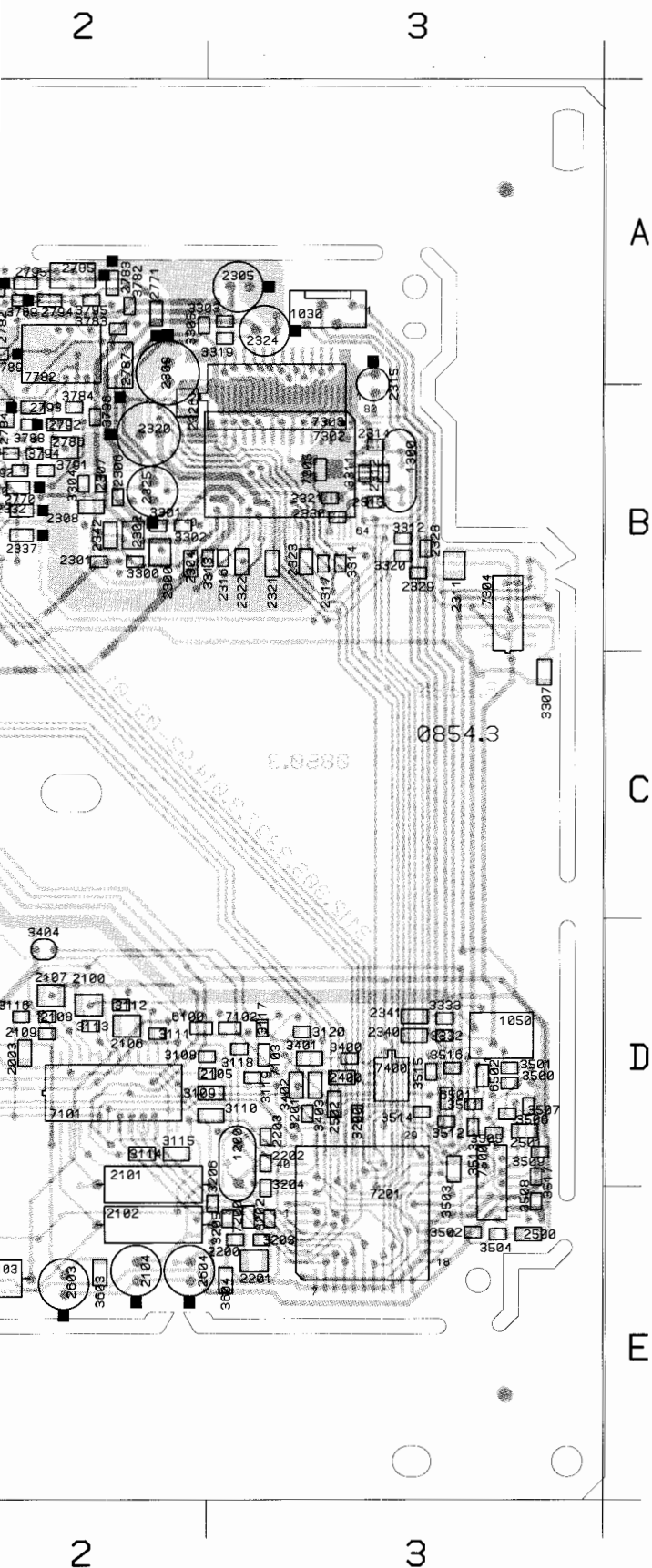
E



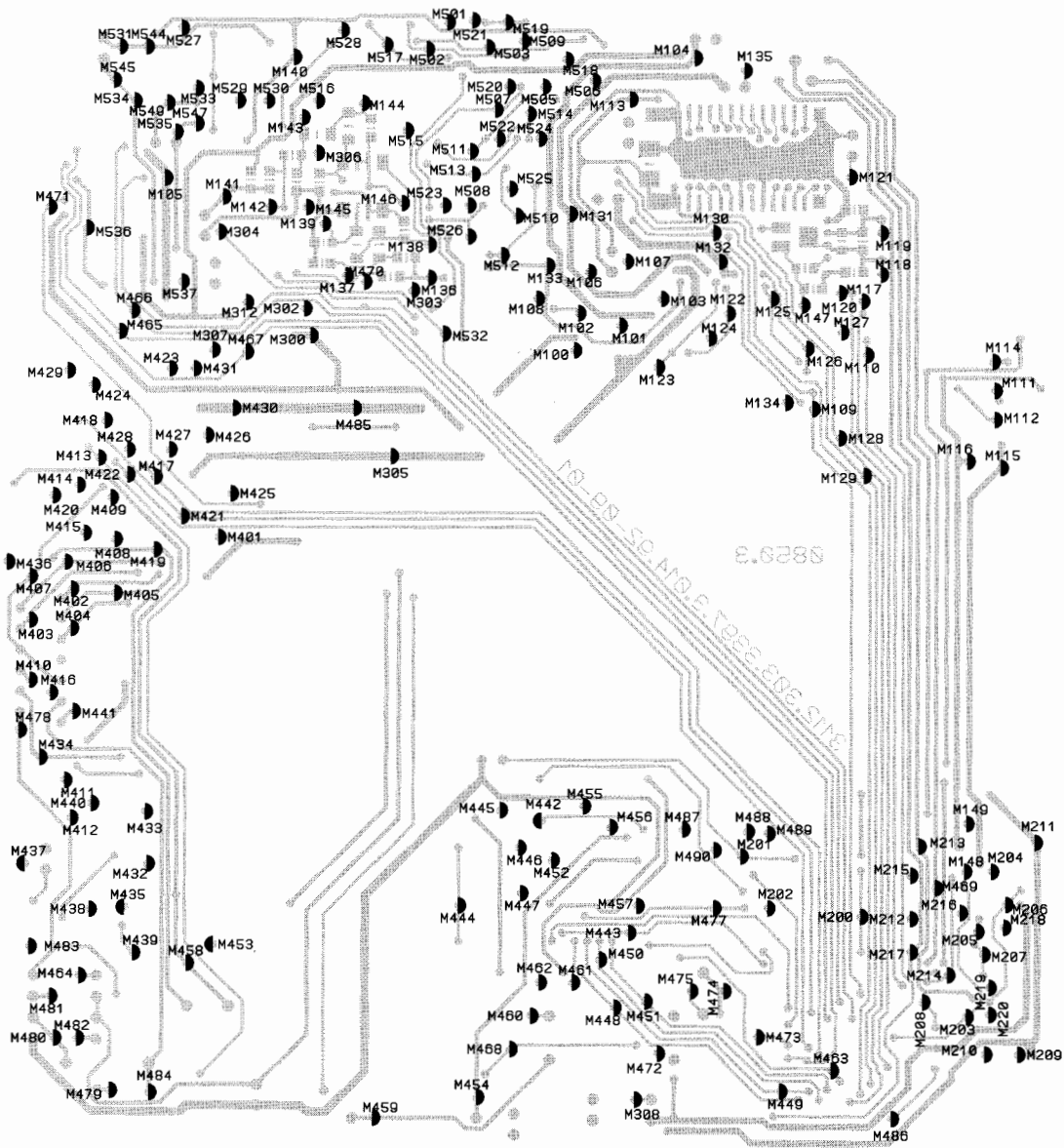
1

2

3



M100 B 2	M307 B 1	M475 D 3	2014 B 1	2767 A 1	3307 C 3	7000 D 1
M101 B 2	M308 E 2	M477 D 3	2015 C 1	2768 A 1	3311 B 3	7001 C 1
M102 B 2	M312 B 1	M478 D 1	2016 D 1	2769 A 1	3312 B 3	7003 D 1
M103 B 2	M401 C 1	M479 E 1	2017 D 1	2770 B 2	3313 B 2	7100 D 1
M104 A 3	M402 C 1	M480 E 1	2018 D 1	2771 A 2	3314 B 3	7101 D 2
M105 B 1	M403 C 1	M481 D 1	2019 D 1	2782 A 2	3319 A 3	7102 D 3
M106 B 2	M404 C 1	M482 E 1	2020 B 1	2783 A 2	3320 B 3	7103 D 3
M107 B 2	M405 C 1	M483 D 1	2100 D 2	2784 B 2	3321 B 3	7200 E 3
M108 B 2	M406 C 1	M484 E 1	2101 D 2	2785 A 2	3323 B 1	7201 E 3
M109 B 3	M407 C 1	M485 B 1	2102 E 2	2786 B 2	3324 B 1	7202 E 1
M110 B 3	M408 C 1	M486 E 3	2103 E 1	2787 A 2	3325 B 1	7302 B 3
M111 B 3	M409 C 1	M487 D 3	2104 E 2	2789 A 2	3326 B 2	7303 B 3
M112 B 3	M410 C 1	M488 D 3	2105 D 2	2790 A 1	3327 B 1	7304 B 3
M113 A 2	M411 D 1	M489 D 3	2106 D 2	2791 A 1	3328 A 1	7305 B 3
M114 B 3	M412 D 1	M490 D 3	2107 D 2	2792 B 2	3329 A 1	7306 B 1
M115 C 3	M413 C 1	M501 A 2	2108 D 2	2793 B 2	3330 B 2	7400 D 3
M116 C 3	M414 C 1	M502 A 2	2109 D 2	2794 A 2	3331 B 1	7500 D 3
M117 B 3	M415 C 1	M503 A 2	2110 D 1	2795 A 2	3332 D 3	7600 B 1
M118 B 3	M416 C 1	M505 A 2	2111 E 1	2796 A 1	3333 D 3	7602 B 1
M119 B 3	M417 C 1	M506 A 2	2112 D 1	2797 A 2	3400 D 3	7701 A 2
M120 B 3	M418 B 1	M507 A 2	2113 D 1	3000 C 1	3401 D 3	7702 A 2
M121 B 3	M419 C 1	M508 B 2	2114 E 1	3001 C 1	3402 D 3	7703 A 1
M122 B 3	M420 C 1	M509 A 2	2200 E 3	3002 D 1	3403 D 3	
M123 B 2	M421 C 1	M510 B 2	2201 E 3	3003 D 1	3404 D 2	
M124 B 3	M422 C 1	M511 B 2	2202 D 3	3004 D 1	3500 D 3	
M125 B 3	M423 B 1	M512 B 2	2203 D 3	3005 B 1	3501 D 3	
M126 B 3	M424 B 1	M513 B 2	2300 B 2	3006 B 1	3502 E 3	
M127 B 3	M425 C 1	M514 A 2	2301 B 2	3007 B 1	3503 D 3	
M128 C 3	M426 B 1	M515 A 2	2302 B 2	3008 B 1	3504 E 3	
M129 C 3	M427 C 1	M516 A 1	2304 B 2	3009 C 1	3505 D 3	
M130 B 3	M428 C 1	M517 A 2	2305 A 3	3010 C 1	3506 D 3	
M131 B 2	M429 B 1	M518 A 2	2306 B 2	3011 D 1	3507 D 3	
M132 B 3	M430 B 1	M519 A 2	2307 B 2	3012 D 1	3508 E 3	
M133 B 2	M431 B 1	M520 A 2	2308 B 2	3013 D 1	3509 D 3	
M134 B 3	M432 D 1	M521 A 2	2309 A 2	3014 D 1	3511 D 3	
M135 A 3	M433 D 1	M522 A 2	2311 B 3	3015 D 1	3512 D 3	
M136 B 2	M434 D 1	M523 B 2	2312 B 3	3016 D 1	3513 D 3	
M137 B 1	M435 D 1	M524 A 2	2313 B 3	3017 D 1	3514 D 3	
M138 B 2	M436 C 1	M525 B 2	2314 B 3	3018 D 1	3515 D 3	
M139 B 1	M437 D 1	M526 B 2	2315 B 3	3019 D 1	3516 D 3	
M140 A 1	M438 D 1	M527 A 1	2316 B 3	3020 C 1	3517 D 3	
M141 B 1	M439 D 1	M528 A 1	2317 B 3	3021 B 1	3600 B 1	
M142 B 1	M440 D 1	M529 A 1	2320 B 2	3022 B 1	3601 B 1	
M143 A 1	M441 C 1	M530 A 1	2321 B 3	3100 D 1	3602 B 1	
M144 A 1	M442 D 2	M531 A 1	2322 B 3	3101 E 1	3603 E 2	
M145 B 1	M443 D 2	M532 B 2	2323 B 3	3102 E 1	3604 E 3	
M146 B 2	M444 D 2	M533 A 1	2324 A 3	3103 E 1	3770 A 1	
M147 B 3	M445 D 2	M534 A 1	2325 B 2	3104 E 1	3770 B 1	
M148 D 3	M446 D 2	M535 A 1	2326 B 2	3105 D 1	3780 A 1	
M149 D 3	M447 D 2	M536 B 1	2327 B 1	3106 D 1	3781 A 2	
M200 D 3	M448 D 2	M537 B 1	2328 B 3	3107 D 1	3782 A 2	
M201 D 3	M449 E 3	M544 A 1	2329 B 3	3108 D 2	3783 A 2	
M202 D 3	M450 D 2	M545 A 1	2330 B 3	3109 D 3	3784 B 2	
M203 D 3	M451 D 2	M547 A 1	2332 B 2	3110 D 3	3785 A 2	
M204 D 3	M452 D 2	M549 A 1	2333 B 2	3111 D 2	3786 A 1	
M205 D 3	M453 D 1	1001 C 1	2334 B 1	3112 D 2	3787 A 1	
M206 D 3	M454 E 2	1020 B 1	2335 A 1	3113 D 2	3788 B 2	
M207 D 3	M455 D 2	1030 A 3	2336 B 1	3114 D 2	3789 A 2	
M208 D 3	M456 D 2	1040 E 1	2337 B 2	3115 D 2	3790 A 2	
M209 E 3	M457 D 2	1050 D 3	2338 B 1	3116 D 2	3791 B 2	
M210 E 3	M458 D 1	1060 A 1	2339 B 1	3117 D 3	3792 B 2	
M211 D 3	M459 E 1	1200 D 3	2340 D 3	3118 D 3	3793 B 2	
M212 D 3	M460 D 2	1300 B 3	2341 D 3	3119 D 3	3794 B 2	
M213 D 3	M461 D 2	2000 C 1	2342 B 2	3120 D 3	3795 A 2	
M214 D 3	M462 D 2	2001 C 1	2400 D 3	3200 D 3	3796 B 2	
M215 D 3	M463 E 3	2002 C 1	2500 E 3	3201 D 3	3799 B 1	
M216 D 3	M464 D 1	2003 D 2	2501 D 3	3202 E 3	4100 D 1	
M217 D 3	M465 B 1	2004 C 1	2502 D 3	3203 E 3	4200 D 1	
M218 D 3	M466 B 1	2005 D 1	2600 B 1	3204 E 3	4700 A 1	
M219 D 3	M467 B 1	2006 D 1	2601 E 1	3205 E 3	4701 A 1	
M220 D 3	M468 E 2	2007 B 1	2602 B 1	3206 E 3	6100 D 2	
M300 B 1	M469 D 3	2008 B 1	2603 E 2	3300 B 2	6200 E 1	
M302 B 1	M470 B 1	2009 D 1	2604 E 2	3301 B 2	6501 D 3	
M303 B 2	M471 B 1	2010 B 1	2763 A 1	3302 B 2	6502 D 3	
M304 B 1	M472 E 2	2011 B 1	2764 A 1	3303 A 3	6500 B 1	
M305 C 2	M473 E 3	2012 B 1	2765 A 1	3304 B 2	6601 B 1	
M306 B 1	M474 D 3	2013 C 1	2766 A 1	3305 A 2	6602 B 1	



POS. 7302 SAA 7341

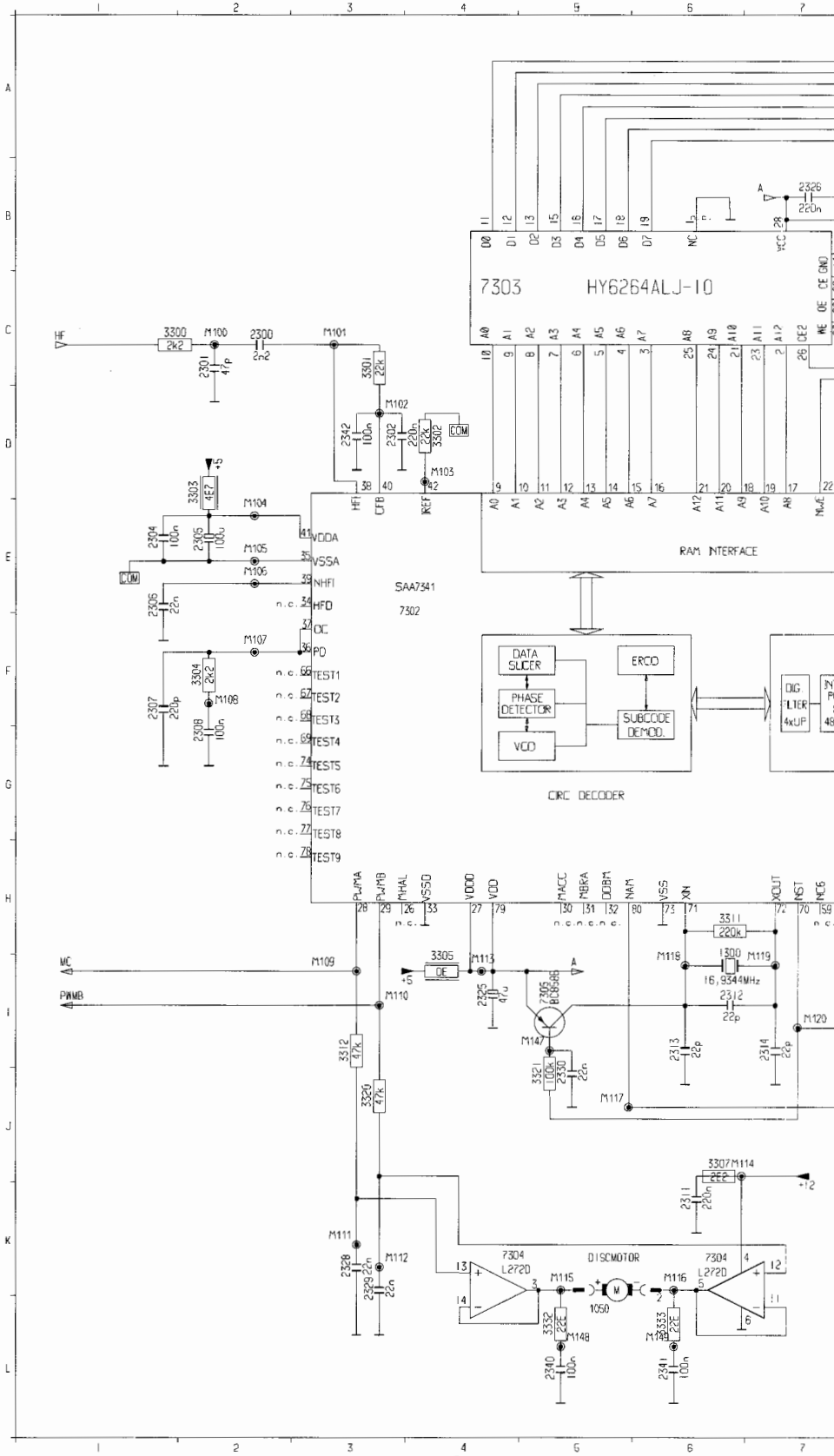
- 1 - 22: DATA
- M128 23: see QRA (P) / 40 mV (S,O)
- M129 24: see QDA (P) / 0,0 V (S,O)
- M130 25: see QCL (P) / 5,0 V (S,O)
- 26: nc
- M113 27: 5,0 V (P,S,O)
- M109 28: see MC (P) / 0,0 V (S,O)
- M110 29: 5,0 V (P,S,O)
- 30 - 32: nc
- 33: GND
- 34: nc
- 35: GND
- M107 36: 2,8 V (P) / 130 mV (S,S-O) / 5,0 V (P-O)
- M107 37: 2,8 V (P) / 130 mV (S,S-O) / 5,0 V (P-O)
- M101 38: 2,5 V (P,S,O)
- M106 39: 2,5 V (P,S,O)
- M102 40: 2,5 V (P,S,O)
- M104 41: 5,0 V (P,S,O)
- M103 42: 2,2 V (P,S,O)
- M133 43: 2,2 V (P,S,O)
- 44 - 45: nc
- M131 46: 4,4 V (P,S,O)
- M123 47: 2,2 V (P) / 2,3 V (S,O)
- 48: GND
- M122 49: AF (P) / 0,0 V (S,O)
- 50: GND
- M132 51: 2,2 V (P,S,O)
- M132 52: 2,2 V (P,S,O)
- 53: GND
- M125 54: AF (P) / 0,0 V (S,O)
- 55: GND
- M126 56: 2,2 V (P) / 2,3 V (S,O)
- M131 57: 4,4 V (P,S,O)
- 58 - 59: nc
- M134 60: 2,2 V (P,S,O)
- 61 - 64: nc
- M121 65: 5,0 V (P,S,O)
- 66 - 69: nc
- M120 70: DEC.DOWN
- M118 71: 2,2 V (P) / 5,0 V (S,O)
- M119 72: 2,3 V (P) / 0,0 V (S,O)
- 73: GND
- 74 - 78: nc
- M113 79: 5,0 V (P,S,O)
- M117 80: 5,0 V (P,S,O)

POS. 7303 HY 6264 ALJ-10

- 1: GND
- 2 - 13: DATA
- 14: GND
- 15 - 19: DATA
- 20: GND
- 21: DATA
- 22: GND
- 23 - 25: DATA
- 26: 5,0 V (P,S,O)
- 27: DATA
- 28: 5,0 V (P,S,O)

POS. 7304 L 272D

- 1: nc
- 2: nc
- M115 3: 4,2 V (P) / 5,0 V (S,O)
- M114 4: 12,0 V (P,S,O)
- M116 5: 5,0 V (P,S,O)
- 6: GND
- 7: nc
- 8: nc
- 9: nc
- 10: nc
- M116 11: 5,0 V (P,S,O)
- M112 12: 5,0 V (P,S,O)
- M111 13: 4,2 V (P) / 5,0 V (S,O)
- M115 14: 4,2 V (P) / 5,0 V (S,O)
- 15: nc
- 16: nc



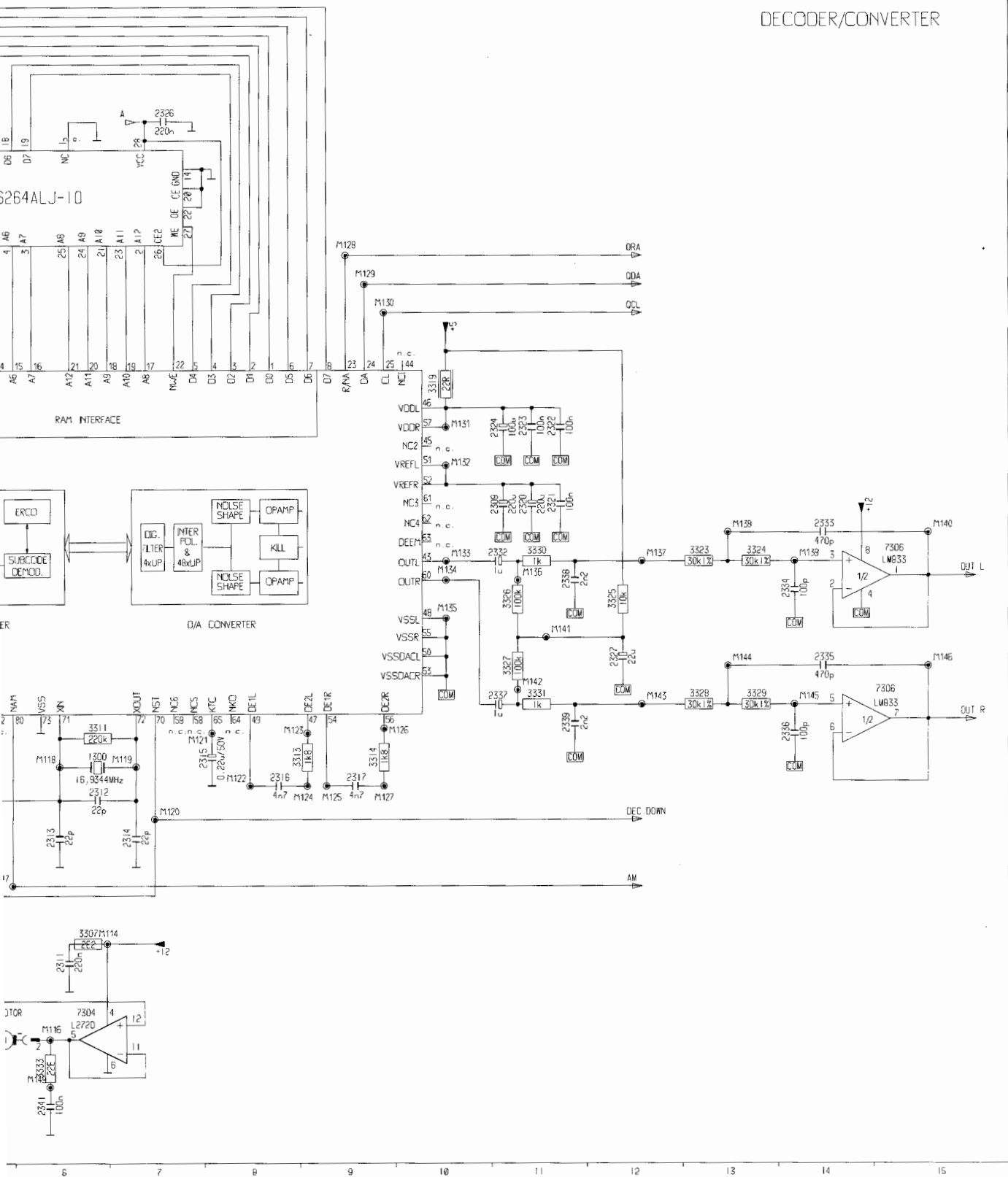
POS. 7305 BC 858

- M147 B: 5,0 V (P) / 4,4 V (S,O)
- M118 C: 2,2 V (P) / 5,0 V (S,O)
- M113 E: 5,0 V (P,S,O)

POS. 7306 LM 833

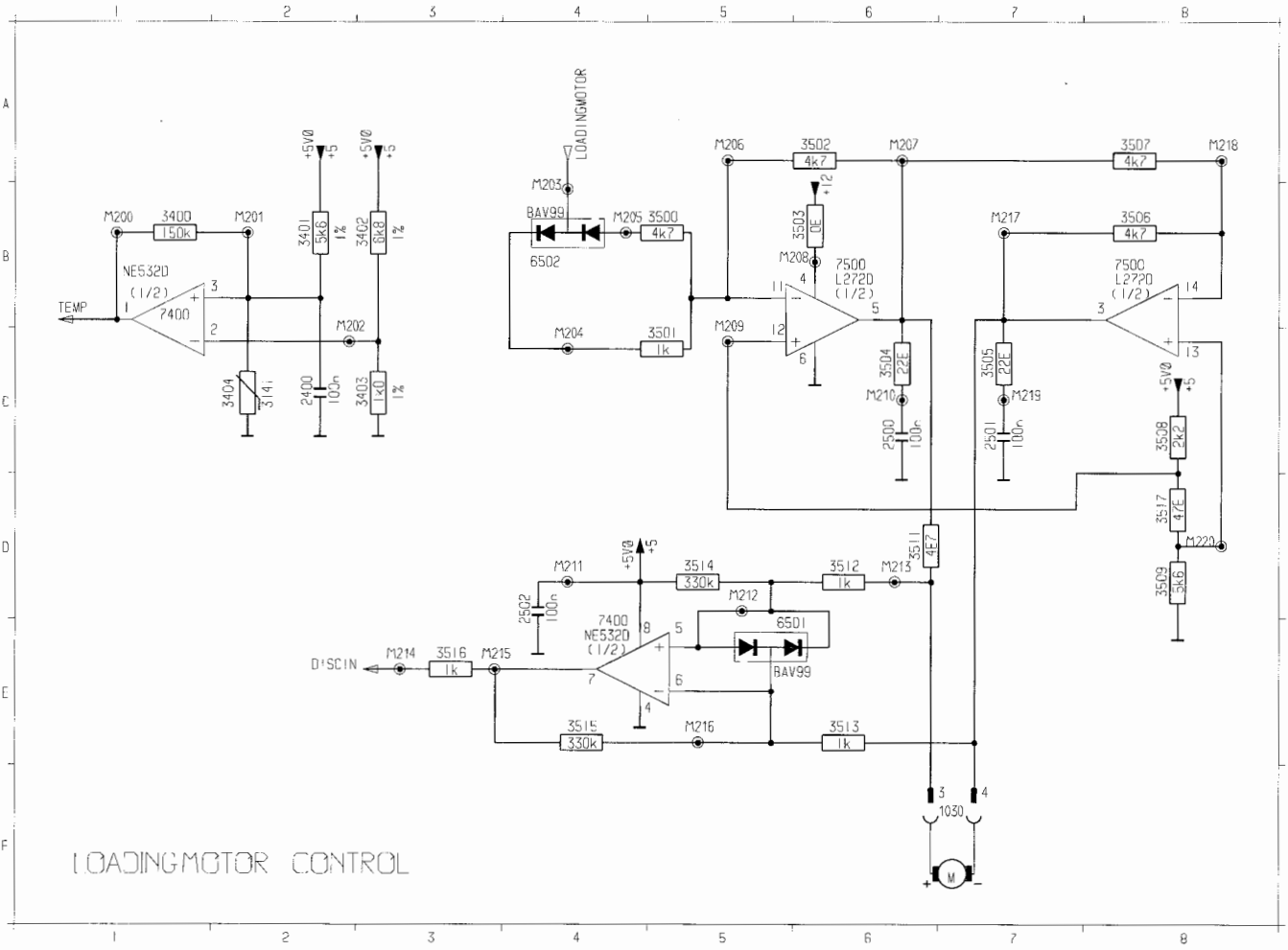
- M140 1: AF 5,0 V (P) / 5,0 V (S,O)
- M140 2: AF 5,0 V (P) / 5,0 V (S,O)
- M139 3: AF 5,0 V (P) / 5,0 V (S,O)
- 4: GND
- M145 5: AF 5,0 V (P) / 5,0 V (S,O)
- M146 6: AF 5,0 V (P) / 5,0 V (S,O)
- M146 7: AF 5,0 V (P) / 5,0 V (S,O)
- 8: 12,0 V

DECODER/CONVERTER



1050	L 5
1300	L 5
2300	L 5
2301	L 5
2302	L 5
2303	L 5
2304	L 5
2305	L 5
2306	L 5
2307	L 5
2308	L 5
2309	L 5
2310	L 5
2311	L 5
2312	L 5
2313	L 5
2314	L 5
2315	L 5
2316	L 5
2317	L 5
2318	L 5
2319	L 5
2320	L 5
2321	L 5
2322	L 5
2323	L 5
2324	L 5
2325	L 5
2326	L 5
2327	L 5
2328	L 5
2329	L 5
2330	L 5
2331	L 5
2332	L 5
2333	L 5
2334	L 5
2335	L 5
2336	L 5
2337	L 5
2338	L 5
2339	L 5
2340	L 5
2341	L 5
2342	L 5
2343	L 5
2344	L 5
2345	L 5
2346	L 5
2347	L 5
2348	L 5
2349	L 5
2350	L 5
2351	L 5
2352	L 5
2353	L 5
2354	L 5
2355	L 5
2356	L 5
2357	L 5
2358	L 5
2359	L 5
2360	L 5
2361	L 5
2362	L 5
2363	L 5
2364	L 5
2365	L 5
2366	L 5
2367	L 5
2368	L 5
2369	L 5
2370	L 5
2371	L 5
2372	L 5
2373	L 5
2374	L 5
2375	L 5
2376	L 5
2377	L 5
2378	L 5
2379	L 5
2380	L 5
2381	L 5
2382	L 5
2383	L 5
2384	L 5
2385	L 5
2386	L 5
2387	L 5
2388	L 5
2389	L 5
2390	L 5
2391	L 5
2392	L 5
2393	L 5
2394	L 5
2395	L 5
2396	L 5
2397	L 5
2398	L 5
2399	L 5
2400	L 5
2401	L 5
2402	L 5
2403	L 5
2404	L 5
2405	L 5
2406	L 5
2407	L 5
2408	L 5
2409	L 5
2410	L 5
2411	L 5
2412	L 5
2413	L 5
2414	L 5
2415	L 5
2416	L 5
2417	L 5
2418	L 5
2419	L 5
2420	L 5
2421	L 5
2422	L 5
2423	L 5
2424	L 5
2425	L 5
2426	L 5
2427	L 5
2428	L 5
2429	L 5
2430	L 5
2431	L 5
2432	L 5
2433	L 5
2434	L 5
2435	L 5
2436	L 5
2437	L 5
2438	L 5
2439	L 5
2440	L 5
2441	L 5
2442	L 5
2443	L 5
2444	L 5
2445	L 5
2446	L 5
2447	L 5
2448	L 5
2449	L 5
2450	L 5
2451	L 5
2452	L 5
2453	L 5
2454	L 5
2455	L 5
2456	L 5
2457	L 5
2458	L 5
2459	L 5
2460	L 5
2461	L 5
2462	L 5
2463	L 5
2464	L 5
2465	L 5
2466	L 5
2467	L 5
2468	L 5
2469	L 5
2470	L 5
2471	L 5
2472	L 5
2473	L 5
2474	L 5
2475	L 5
2476	L 5
2477	L 5
2478	L 5
2479	L 5
2480	L 5
2481	L 5
2482	L 5
2483	L 5
2484	L 5
2485	L 5
2486	L 5
2487	L 5
2488	L 5
2489	L 5
2490	L 5
2491	L 5
2492	L 5
2493	L 5
2494	L 5
2495	L 5
2496	L 5
2497	L 5
2498	L 5
2499	L 5
2500	L 5

- (P) / 5.0 V (S.O)
- (P) / 5.0 V (S.O)
- (P) / 5.0 V (S.O)
- (P) / 5.0 V (S.O)
- (P) / 5.0 V (S.O)
- (P) / 5.0 V (S.O)



LOADING MOTOR CONTROL

1030	F	7
3400	C	C
500	B	2
2501	D	4
3400	B	1
3401	B	2
3402	B	3
3403	B	4
3404	B	5
3501	B	6
3502	A	8
3503	B	8
3504	C	4
3505	B	8
3506	B	8
3507	B	8
3508	B	8
3509	B	8
3510	B	8
3511	D	6
3512	C	6
3513	C	6
3514	C	6
3515	C	6
3516	C	6
3517	C	6
3518	C	6
3519	C	6
3520	C	6
3521	C	6
3522	C	6
3523	C	6
3524	C	6
3525	C	6
3526	C	6
3527	C	6
3528	C	6
3529	C	6
3530	C	6
3531	C	6
3532	C	6
3533	C	6
3534	C	6
3535	C	6
3536	C	6
3537	C	6
3538	C	6
3539	C	6
3540	C	6
3541	C	6
3542	C	6
3543	C	6
3544	C	6
3545	C	6
3546	C	6
3547	C	6
3548	C	6
3549	C	6
3550	C	6
3551	C	6
3552	C	6
3553	C	6
3554	C	6
3555	C	6
3556	C	6
3557	C	6
3558	C	6
3559	C	6
3560	C	6
3561	C	6
3562	C	6
3563	C	6
3564	C	6
3565	C	6
3566	C	6
3567	C	6
3568	C	6
3569	C	6
3570	C	6
3571	C	6
3572	C	6
3573	C	6
3574	C	6
3575	C	6
3576	C	6
3577	C	6
3578	C	6
3579	C	6
3580	C	6
3581	C	6
3582	C	6
3583	C	6
3584	C	6
3585	C	6
3586	C	6
3587	C	6
3588	C	6
3589	C	6
3590	C	6
3591	C	6
3592	C	6
3593	C	6
3594	C	6
3595	C	6
3596	C	6
3597	C	6
3598	C	6
3599	C	6
3600	C	6

POS. 6501 BAV 99

M212 1: 3,6 V (P,S,O)
M212 2: 3,6 V (P,S,O)
M216 3: 3,5 V (P,S,O)

POS. 6502 BAV 99

M204 1: 3,6 V (P,S,O) / 4,2 V (LOAD)
M205 2: 3,6 V (P,S,O) / 1,0 V (EJECT)
M203 3: 3,4 V (P,S,O) / 5,0 V (LOAD) / 0,0 V (EJECT)

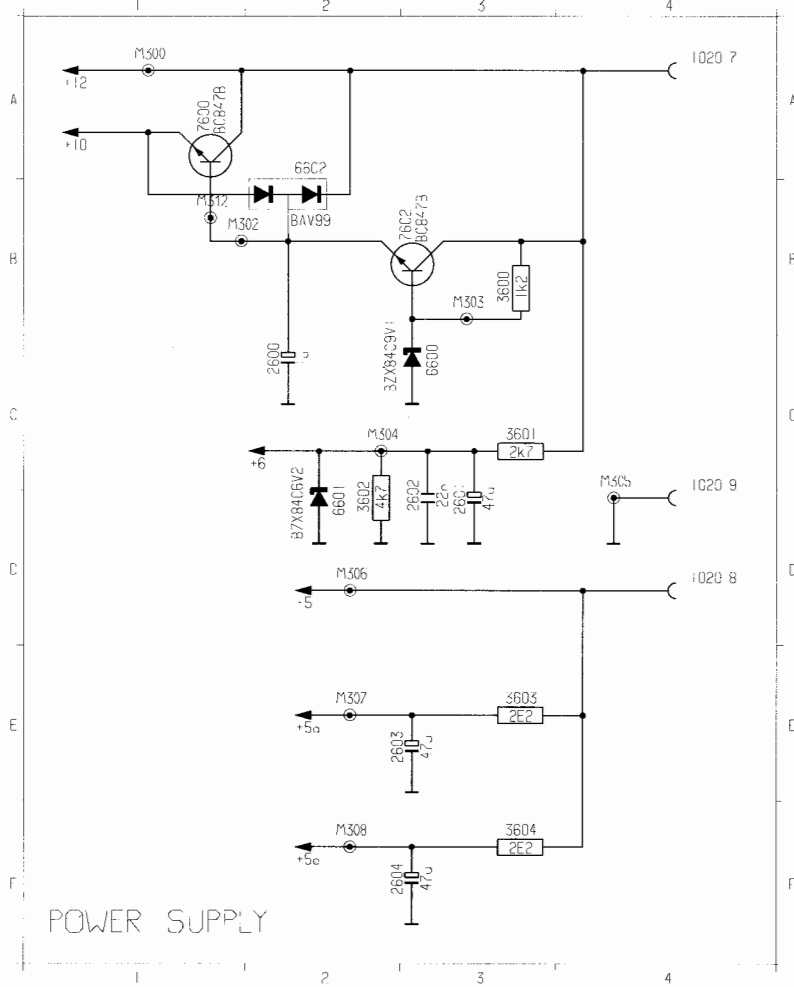
POS. 7400 NE 532D

M200 1: 3,9 V (P,S,O) / 0,0 V (T 70\$C)
M202 2: 0,6 V (P,S,O)
M201 3: 2,3 V (P,S,O)
4: GND
M212 5: 3,6 V (P,S,O)
M216 6: 3,5 V (P,S,O)
M215 7: 3,8 V (P,S,O) / 0,0 V (LOAD)
M211 8: 5,0 V (P,S,O)

POS. 7500 L 272D

1: nc
2: nc
M217 3: 3,5 V (P,S,O) / 6,5 V (LOAD) / 0,5 V (EJECT)
M208 4: 12,0 V (P,S,O)
M207 5: 3,5 V (P,S,O) / 0,5 V (LOAD) / 6,5 V (EJECT)
6: GND
7: nc
8: nc
9: nc
10: nc
M206 11: 3,6 V (P,S,O)
M209 12: 3,6 V (P,S,O)
M220 13: 3,6 V (P,S,O)
M218 14: 3,6 V (P,S,O)
15: nc
16: nc

1020	A	4	2601	D	3	3602	B	3	5604	F	3	7600	A	3	M303	B	3	M307	F	2
1020	A	4	2602	D	3	3601	F	3	6600	D	3	7602	B	3	M304	F	3	M308	F	2
1020	A	4	2603	F	3	3602	D	3	6601	D	3	M500	A	3	M305	F	4	M312	F	2
2600	C	2	2604	F	3	3603	F	3	6602	A	3	M502	B	3	M306	D	2			



POS. 6602 BAV 99

M300 1: 12,0 V (P,S,O)
 2: 8,4 V (P,S,O)
 M302 3: 9,0 V (P,S,O)

POS. 7600 BC 847B

M302 B: 9,0 V (P,S,O)
 M300 C: 12,0 V (P,S,O)
 E: 8,4 V (P,S,O)

POS. 7602 BC 847B

M303 B: 9,5 V (P,S,O)
 M300 C: 12,0 V (P,S,O)
 M302 E: 9,0 V (P,S,O)

POS. 7000 L 272D

	1: nc
	2: nc
M434	3: 2,6 V (P) / 2,4 V (S,O)
M437	4: 12,0 V (P,S,O)
M441	5: 2,4 V (P) / 2,6 V (S,O)
	6: GND
	7: nc
	8: nc
	9: nc
	10: nc
M438	11: 2,5 V (P,S,O)
M439	12: 2,5 V (P,S,O)
M435	13: 2,5 V (P,S,O)
M432	14: 2,5 V (P,S,O)
	15: nc
	16: nc

POS. 7001 TDA 8808T/C3

M426	1: 2,5 V (P) / 0,4 V (S,O)
	2: 4,7 V (P) / 5,0 V (S,O)
M427	3: 2,0 V (P) / 2,5 V (S,O)
M423	4: 2,2 V (P,S,O)
	5: not const. (P) / 0 V (S,O)
M417	6: 2,8 V (P) / 0,0 V (S,O)
M428	7: 0,6 V (P,S,O)
M424	8: 1,3 V (P,S,O)
M418	9: 0,0 V (P,S,O)
M422	10: 4,6 V (P) / 70 mV (S,O)
M413	11: 4,7 V (P) / 5,0 V (S,O)
M421	12: 5,0 V (P) / 0,0 V (S,O)
	13: GND
M429	14: 2,8 V (P) / 3,8 V (S,O)
M420	15: 2,5 V (P,S,O)
M419	16: 2,5 V (P,S,O)
M416	17: 3,4 V (P) / 0 V (S,O)
M415	18: 0,2 V (P) / 0,0 V (S,O)
M414	19: 1,7 V (P) / 4,2 V (S,O)
M409	20: 2,9 V (P) / 3,7 V (S,O)
M408	21: 2,9 V (P) / 3,7 V (S,O)
M404	22: 1,3 V (P) / 0,0 V (S,O)
M403	23: 1,3 V (P) / 0,0 V (S,O)
M405	24: 1,3 V (P) / 0,0 V (S,O)
M406	25: 1,3 V (P) / 0,0 V (S,O)
	26: 1,4 V (P,S,O)
	27: GND
M425	28: 3,2 V (P) / 3,6 V (S,O)

POS. 7003 BC 868

M412	B: 3,5 V (P) / 0 V (S,O)
	C: 3,8 V (P) / 4,7 V (S,O)
M411	E: 2,8 V (P) / 0 V (S,O)

POS. 7100 TCA 0372DP1

M478	1: 6,0 V (P,S,O)
M481	2: 12,0 V (P,S,O)
M480	3: 6,0 V (P,S,O)
	4: GND
M482	5: 6,0 V (P,S,O)
	6: 6,0 V (P,S,O)
	7: 6,0 V (P,S,O)
M464	8: 6,0 V (P,S,O)

POS. 7101 TDA 8809T/C2

	1: 4,7 V (P) / 5,0 V (S,O)
M459	2: sinus 2,5 V (P,S,O)
M460	3: sinus 2,5 V (P,S,O)
M462	4: 0,1 V (P,S,O)
M461	5: 1,3 V (P,S,O)
M444	6: 4,5 V (P,S,O)
M443	7: 2,3 V (P) / 5,0 V (S,O)
M448	8: 0,0 V (P,S,O)
M449	9: 5,0 V (P) / 0,0 V (S,O)
M450	10: 5,0 V (P,S,O)
M451	11: 5,0 V (P,S,O)
	12: 8,4 V (P,S,O)
	13: GND
	14: GND
M453	15: 6,0 V (P,S,O)
M454	16: 2,5 V (P,S,O)
M456	17: 2,5 V (P,S,O)

M455	18: 2,5 V (P,S,O)
M457	19: 2,5 V (P,S,O)
M458	20: 2,5 V (P,S,O)
M442	21: not const. 1,8...2,1 V (P) / 3,7 V (S,O)
M452	22: 1,2 V (P,S,O)
M445	23: not const. (P) / 0,6 V (S,O)
M445	24: not const. (P) / 0,6 V (S,O)
M446	25: 2,6 V (P) / 5,0 V (S,O)
M447	26: 2,0 V (P) / 4,3 V (S,O)
M409	27: 2,9 V (P) / 3,7 V (S,O)
M408	28: 2,9 V (P) / 3,7 V (S,O)

POS. 7102 BC 847B

M487	B: 1,8 V (P) / 3,5 V (S,O)
M488	C: 4,3 V (P) / 3,0 V (S,O)
M490	E: 3,0 V (P,S,O)

POS. 7103 BC 858B

M489	B: 4,3 V (P,S,O)
M486	C: 0,0 V (P) / 5,0 V (S,O)
	E: 5,0 V (P,S,O)

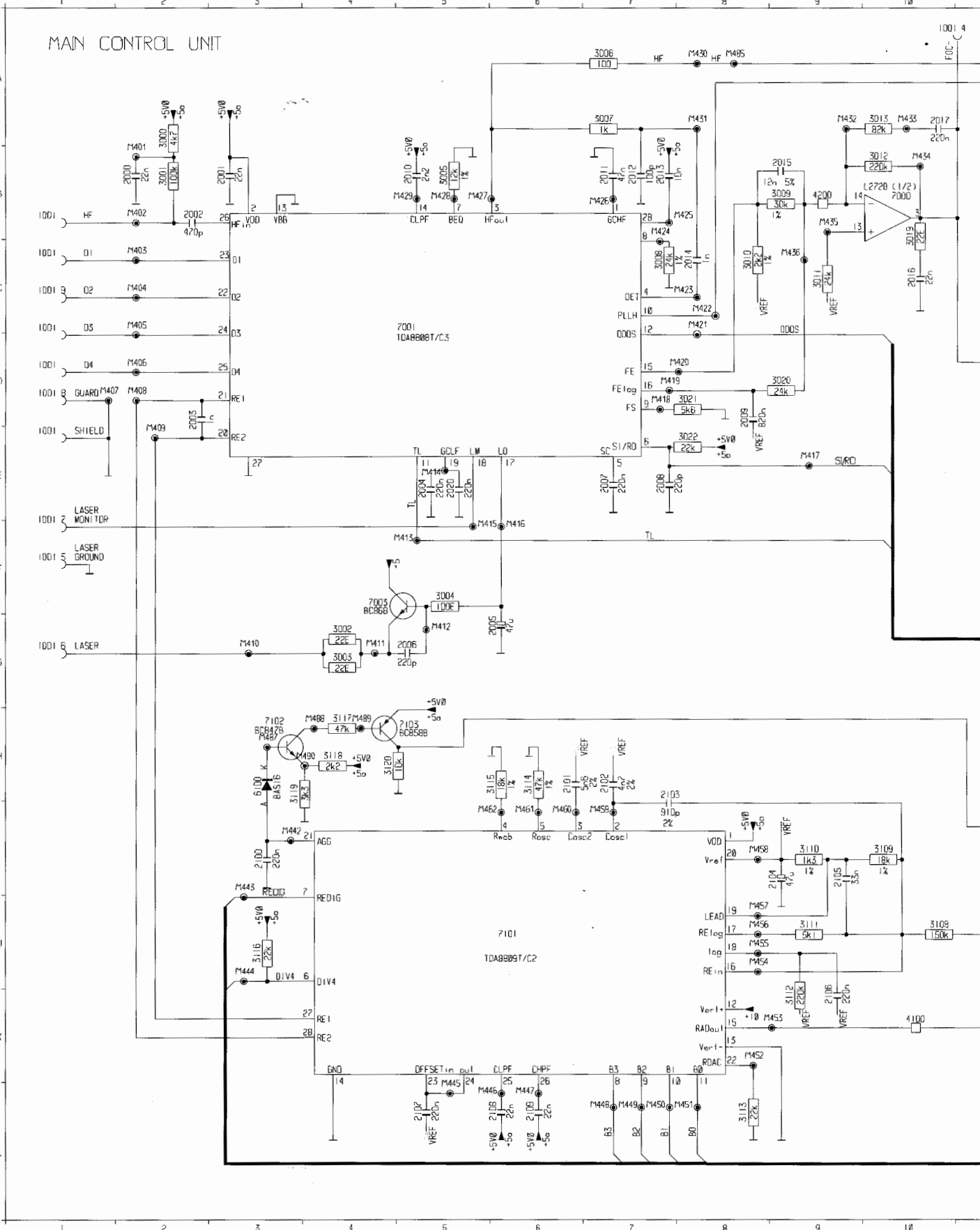
POS. 7200 BC 847B

M472	B: 20 mV (P,S,O)
M473	C: 5,0 V (P,S,O)
	E: GND

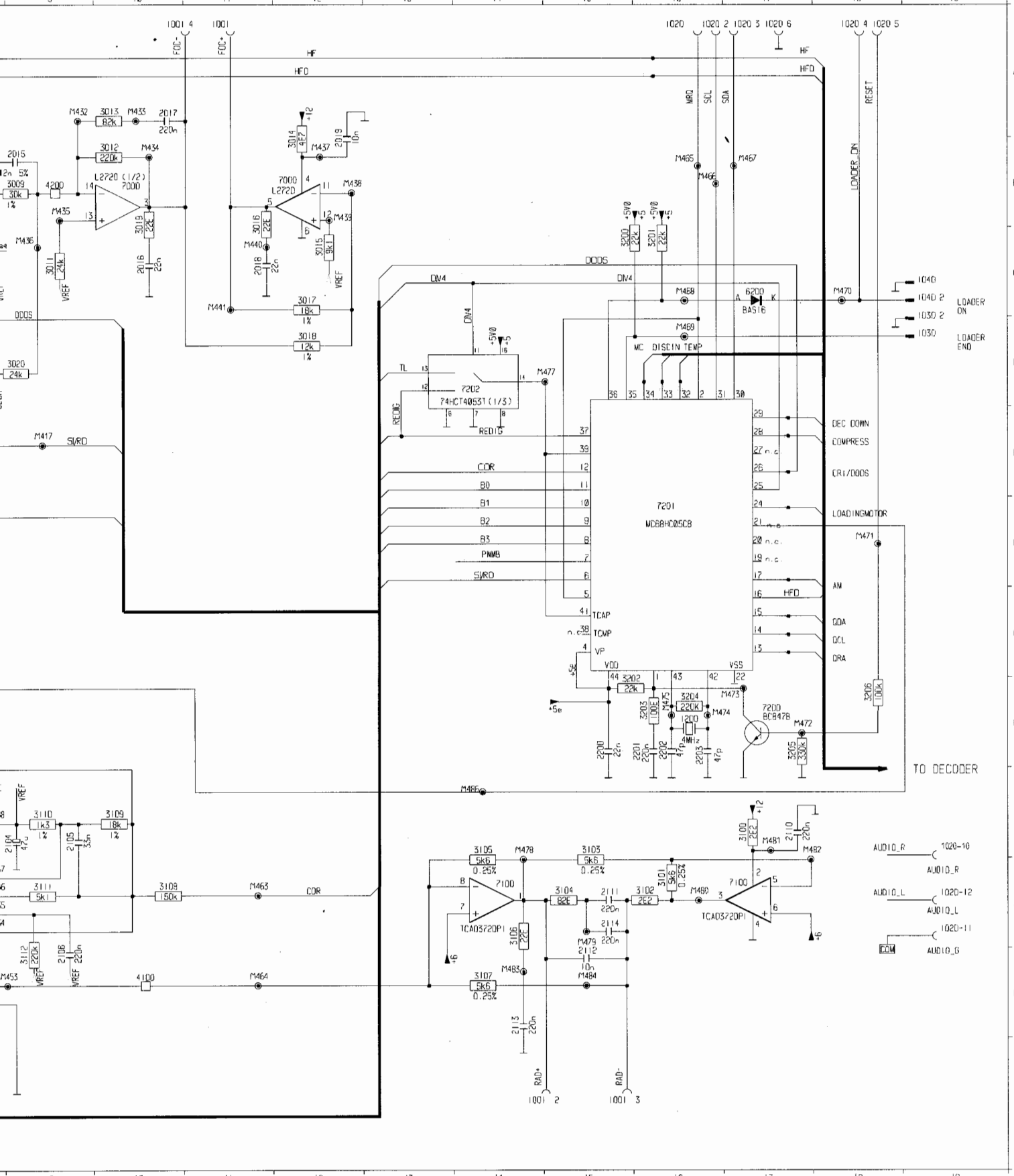
POS. 7201 MC 68HC05C8

M473	1: 5,0 V (P,S,O)
M465	2: see MRQ (P) / 5,0 V (S,O)
	3: nc
	4: 5,0 V (P,S,O)
M465	5: see MRQ (P) / 5,0 V (S,O)
M417	6: 2,8 V (P) / 0,0 V (S,O)
M110	7: 5,0 V (P,S,O)
M448	8: 0,0 V (P,S,O)
M449	9: 5,0 V (P) / 0,0 V (S,O)
M450	10: 5,0 V (P,S,O)
M451	11: 5,0 V (P,S,O)
M463	12: 2,3 V (P,S,O)
M128	13: see QRA (P) / 40 mV (S,O)
M130	14: see QCL (P) / 5,0 V (S,O)
M129	15: see QDA (P) / 0,0 V (S,O)
M422	16: 3,9 V (P) / 70 mV (S,O)
M117	17: 5,0 V (P,S,O)
	18: nc
	19: nc
	20: nc
M486	21: 0,0 V (P) / 5,0 V (S,O)
	22: GND
	23: nc
M203	24: 3,4 V (P,S,O)
M444	25: 4,5 V (P,S,O)
M421	26: 5,0 V (P) / 0,0 V (S,O)
	27: nc
M532	28: 5,0 V (COMPRESS OFF) / 0,0 V (COMPRESS ON)
M120	29: 0,0 V (P) / 5,0 V (S,O)
M467	30: see SDA (P) / 5,0 V (S,O)
M466	31: see SCL (P) / 5,0 V (S,O)
M200	32: 3,9 V (P,S,O)
M214	33: 3,8 V (P,S,O) / 0,0 V (LOAD)
M109	34: see MC (P) / 70 mV (S,O)
M469	35: 0,0 V (P,S) / 5,0 V (O)
M468	36: 5,0 V (P,S,O)
M443	37: 2,3 V (P) / 5,0 V (S,O)
	38: nc
M477	39: 4,7 V (P) / 5,0 V (S,O)
	40: nc
M477	41: 4,7 V (P) / 5,0 V (S,O)
M474	42: 2,7 V (P,S,O)
M475	43: 2,4 V (P,S,O)
	44: 5,0 V (P,S,O)

1021	A11	1021	C1	1020	A17	1030	D19	2004	D19	2004	B7	2020	E1	2107	L1	2220	H15	3024	F5	3012	B10	3020	D9	3105	I14	3113	L10	3200	C15	4200	B9
1001	L14	1001	C1	1020	A18	1040	C19	2005	D19	2005	B7	2013	H15	2108	L1	2201	H16	3005	A7	3013	A10	3021	D8	3106	J14	3114	H16	3201	C16	4201	H13
1001	L15	1001	C1	1020	A19	1040	C19	2006	D19	2006	B7	2014	H15	2109	L1	2202	H16	3006	A7	3014	B10	3022	D8	3107	K14	3115	H16	3202	C16	4202	H12
1001	A10	1001	D1	1020	A17	1200	H15	2007	D19	2007	B7	2015	B8	2110	L1	2203	H16	3007	A7	3015	B10	3023	D8	3108	J10	3116	J10	3203	H16	4203	B10
1001	F1	1001	B1	1020	I19	2008	B2	2008	B2	2008	B2	2016	F10	2111	J15	2204	A2	3008	C7	3016	B11	3101	J16	3109	I10	3117	H4	3204	H16	4204	B10
1001	G1	1001	E1	1020	J19	2009	B3	2009	B3	2009	B3	2017	A10	2112	K15	2205	B2	3009	B9	3017	D12	3102	J16	3110	I9	3118	H4	3205	H17	4205	C15
1001	F1	1020	A15	1020	J19	2002	B2	2010	B2	2010	B2	2018	C11	2113	K14	2206	G4	3010	C8	3018	D12	3103	J15	3111	I9	3119	H4	3206	H18	4206	F4
1001	D1	1020	A15	1020	D19	2003	D2	2011	D2	2011	D2	2019	B12	2114	J15	2207	G4	3011	C9	3019	B10	3104	J15	3112	K9	3120	H4	4100	K10	4207	J17



15	114	3113	L 8	3200	C15	4200	7100	J14	M402	M410	M418	M426	M434	M442	M450	M458	M466	M474	M483	K14
16	117	3114	H 6	3201	C16	6100	7101	J15	M403	M411	M419	M427	M435	M443	M451	M459	M467	M475	M484	K15
17	118	3115	H 6	3202	C17	6100	7102	H13	M404	M412	M420	M428	M436	M444	M452	M460	M468	M476	M485	A 8
18	119	3116	J 3	3203	C18	7000	7103	H14	M405	M413	M421	M429	M437	M445	M453	M461	M469	M477	M486	H 3
19	120	3117	H 4	3204	C19	7000	7104	H15	M406	M414	M422	M430	M438	M446	M454	M462	M470	M478	M487	H 4
20	121	3118	H 4	3205	C20	7000	7105	H16	M407	M415	M423	M431	M439	M447	M455	M463	M471	M479	M488	H 4
21	122	3119	H 4	3206	C21	7000	7106	H17	M408	M416	M424	M432	M440	M448	M456	M464	M472	M480	M489	H 4
22	123	3120	H 4	4100	C22	7100	7107	H18	M409	M417	M425	M433	M441	M449	M457	M465	M473	M481	M490	H 3
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				



POS. 7781 LM 833

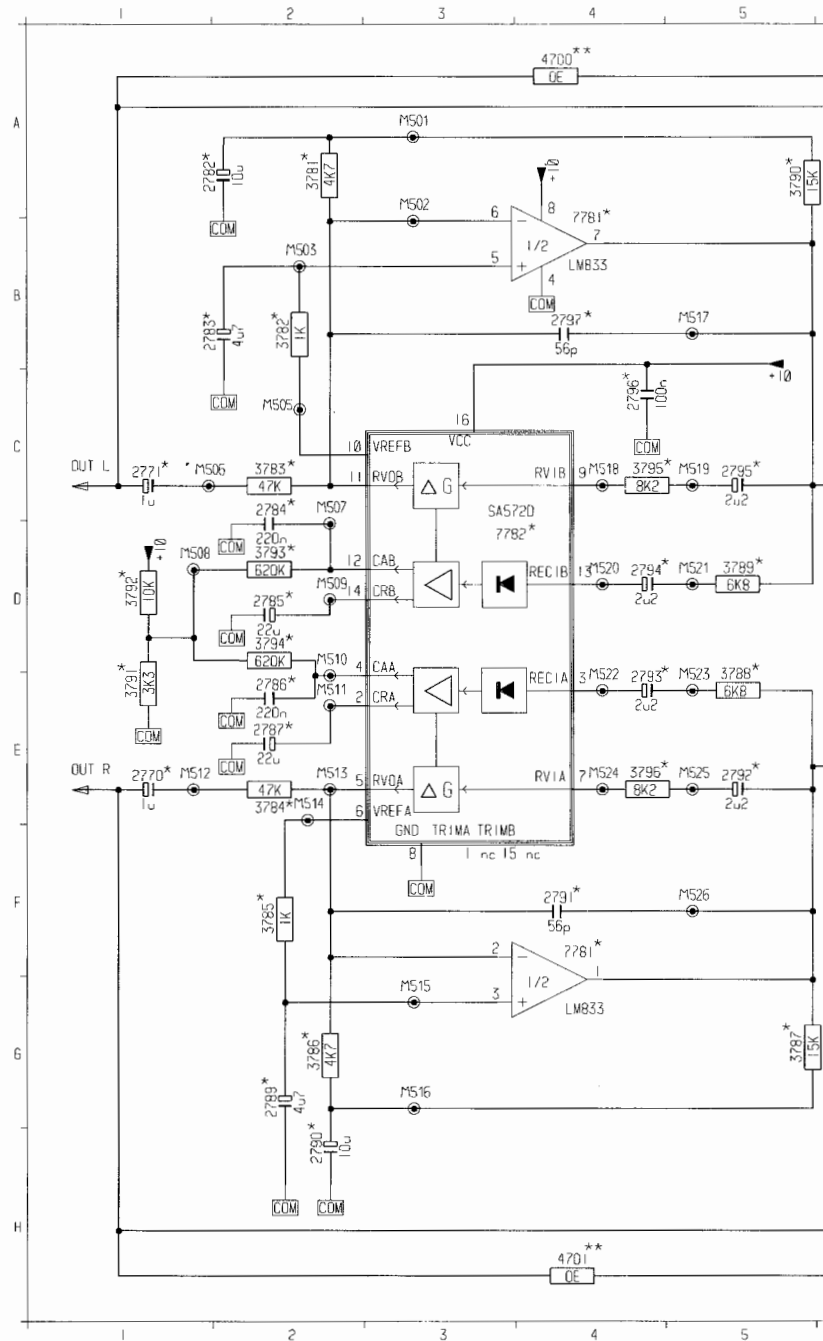
- M526 1: 2,5 V (P,S,O)
- M513 2: 2,5 V (P,S,O)
- M515 3: 2,5 V (P,S,O)
- 4: GND
- M503 5: 2,5 V (P,S,O)
- M502 6: 2,5 V (P,S,O)
- M517 7: 2,5 V (P,S,O)
- 8: 8,0 V (P,S,O)

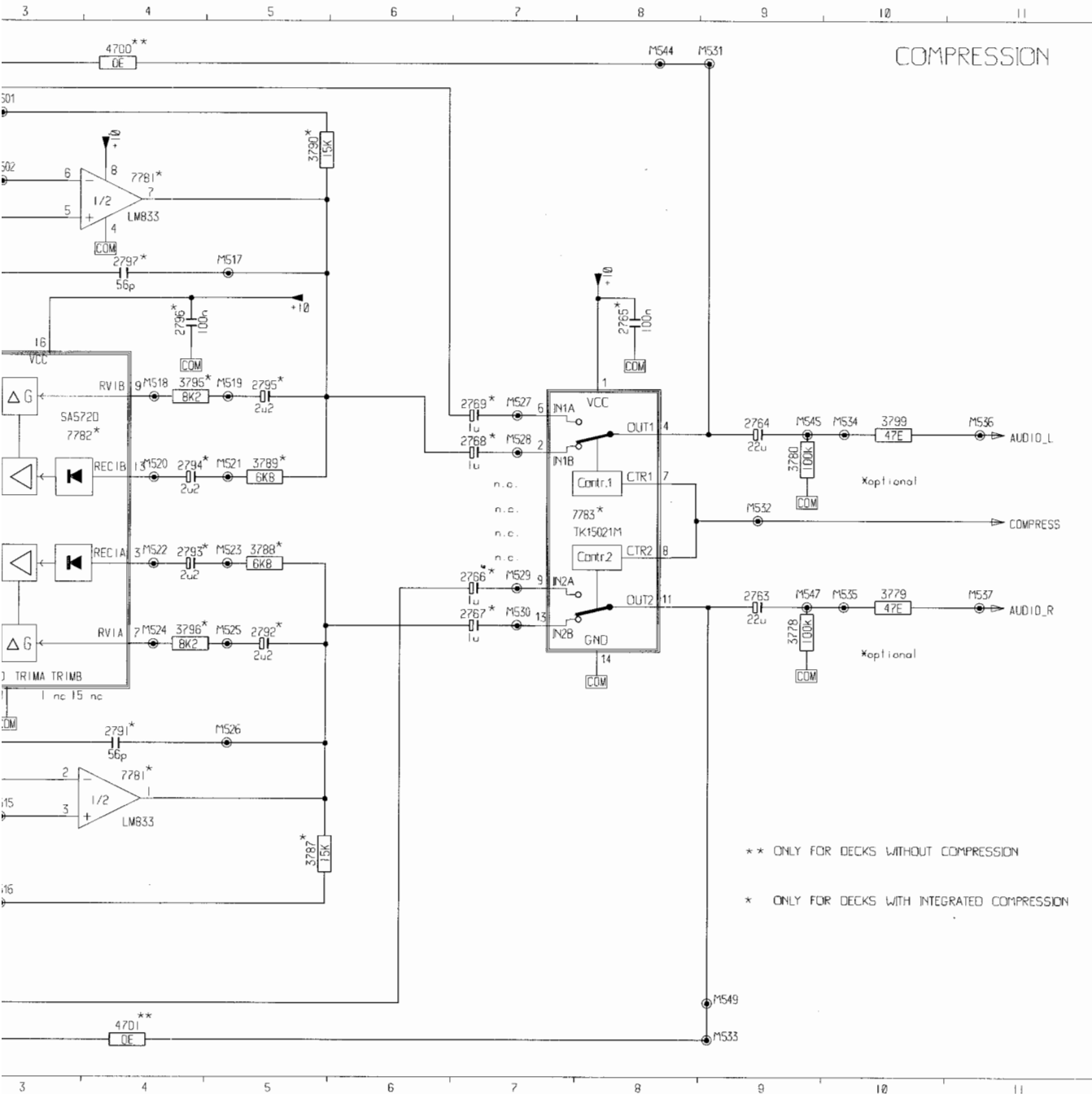
POS. 7782 SA 572D

- 1: nc
- M511 2: AF 1,5 V (P) / 1,1 V (S,O)
- M522 3: 2,5 V (P,S,O)
- M510 4: AF 1,5 V (P) / 1,1 V (S,O)
- M513 5: 2,5 V (P,S,O)
- M514 6: 2,5 V (P,S,O)
- M524 7: 2,5 V (P,S,O)
- 8: GND
- M518 9: 2,5 V (P,S,O)
- M505 10: 2,5 V (P,S,O)
- M502 11: 2,5 V (P,S,O)
- M507 12: AF 1,5 V (P) / 1,1 V (S,O)
- M520 13: 2,5 V
- M509 14: AF 1,5 V (P) / 1,1 V (S,O)
- 15: nc
- 16: 8,0 V (P,S,O)

POS. 7783 TK 15021M

- M528 1: 8,0 V (P,S,O)
- M528 2: 4,0 V (P,S,O)
- 3: nc
- M531 4: 4,0 V (P,S,O)
- 5: nc
- M527 6: 4,0 V (P,S,O)
- M532 7: 5,0 V (COMPRESS OFF)
/ 0,0 V (COMPRESS ON)
- M532 8: 5,0 V (COMPRESS OFF)
/ 0,0 V (COMPRESS ON)
- M529 9: 4,0 V (P,S,O)
- 10: nc
- M549 11: 4,0 V (P,S,O)
- 12: nc
- M530 13: 4,0 V (P,S,O)
- 14: GND

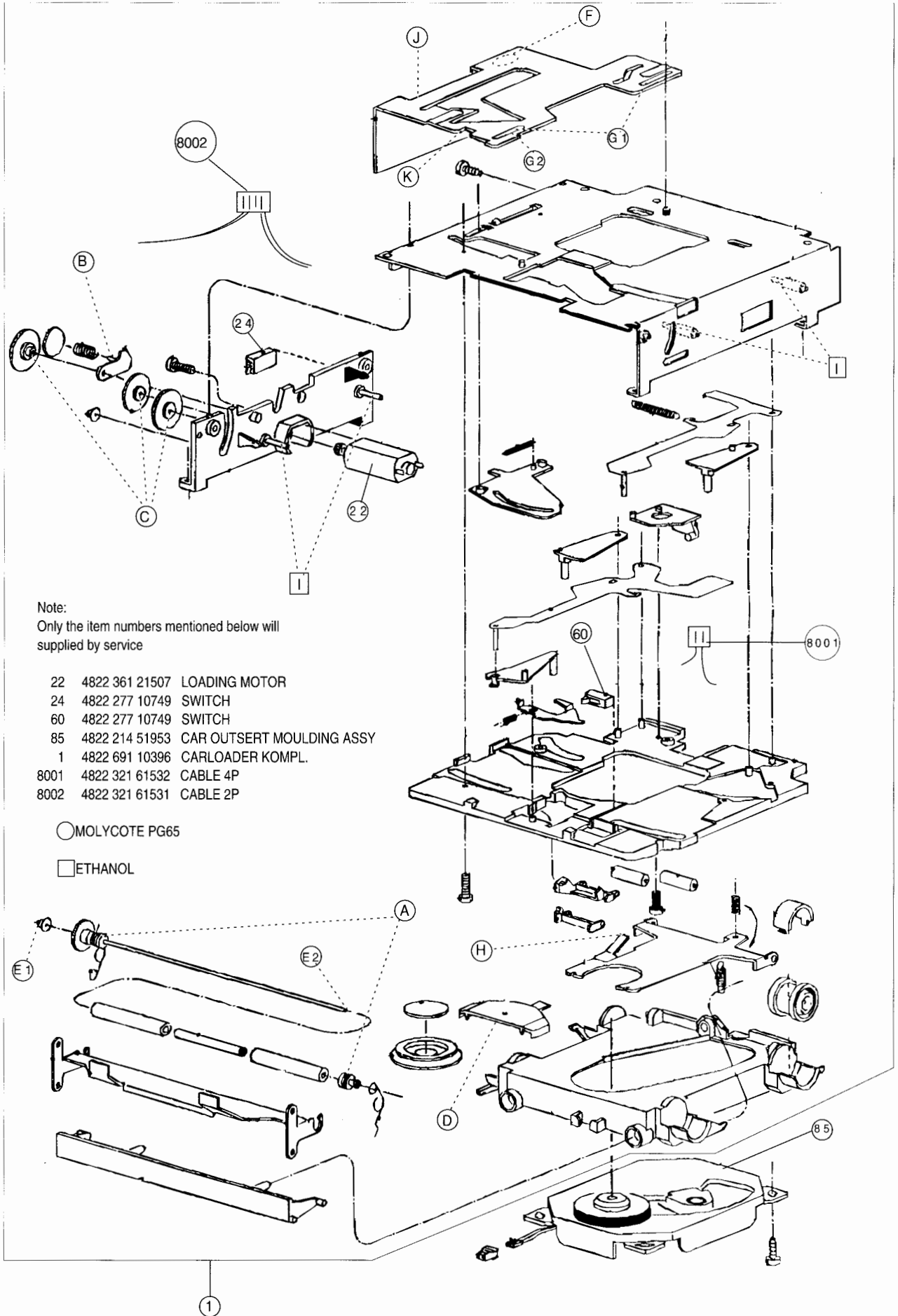




2763	DE
2764	10
2765	9
2766	9
2767	7
2768	7
2769	7
2770	1
2771	C
2780	A
2783	B
2784	C
2785	2
2786	2
2787	2
2789	G
2790	H
2791	4
2793	5
2794	4
2795	4
2796	4
2797	4
3778	9
3779	10
3780	10
3781	A
3782	B
3783	C
3784	A
3785	B
3786	B
3787	B
3788	B
3789	D
3790	A
3791	A
3792	D
3793	D
3794	D
3795	4
3796	4
3799	A
4700	A
4701	4
7781	F
7782	B
7783	D
7784	3
M501	A
M502	B
M503	C
M505	C
M506	C
M507	C
M508	D
M509	D
M510	D
M511	1
M512	1
M513	1
M514	1
M515	B
M516	B
M517	B
M518	C
M519	C
M520	D
M521	D
M522	4
M523	4
M524	4
M525	5
M526	5
M527	C
M528	D
M529	7
M530	7
M531	7
M532	10
M533	A
M534	B
M535	D
M536	H
M537	H
M544	A
M545	C
M547	E
M549	H

** ONLY FOR DECKS WITHOUT COMPRESSION

* ONLY FOR DECKS WITH INTEGRATED COMPRESSION



Note:
Only the item numbers mentioned below will
supplied by service

- 22 4822 361 21507 LOADING MOTOR
- 24 4822 277 10749 SWITCH
- 60 4822 277 10749 SWITCH
- 85 4822 214 51953 CAR OUTSERT MOULDING ASSY
- 1 4822 691 10396 CARLOADER KOMPL.
- 8001 4822 321 61532 CABLE 4P
- 8002 4822 321 61531 CABLE 2P

○ MOLYCOTE PG65

□ ETHANOL

Mechanical partslist

1	4822 502 11715	M 2,5X5 PAN>STZNBK
2	4822 502 30541	2,2X(PT/PAN+STZN
8 1 1	4822 529 10277	SHOCK ABSORBER
9 1 1	4822 529 10277	SHOCK ABSORBER
10 1 1	4822 529 10277	SHOCK ABSORBER
11 1 1	4822 529 10277	SHOCK ABSORBER
22 1 1	4822 361 21507	MOTOR ASSY
24 1 1	4822 277 10749	SWITCH MUTE
34 1 1	4822 502 12001	M 2 X 4PANZNBK
35 1 1	4822 502 12001	M 2 X 4PANZNBK
36 1 1	4822 502 12001	M 2 X 4PANZNBK
37 1 1	4822 502 12001	M 2 X 4PANZNBK
38 1 1	4822 502 12001	M 2 X 4PANZNBK
39 1 1	4822 502 12001	M 2 X 4PANZNBK
60 1 1	4822 277 10749	SWITCH MUTE
77 1 1	4822 502 12001	M 2 X 4PANZNBK
8001	4822 321 61531	CABLE, 2P
3 8001	4822 267 30871	CONNECTOR 2P.
8002	4822 321 61532	CABLE, 4P
5 8002	4822 267 40672	DISC 4POL.
81 1	4822 691 30275	MECH UNITCDM-9
8 81 1	4822 701 10425	M 2 X10T/PANZNBK
9 81 1	4822 701 10425	M 2 X10T/PANZNBK

LUBRICATING INSTRUCTIONS

Car loader

- * A) The roller spindle (pos 28) : 2 x on diameter 2,5 mm.
(On the bearing points)
 - * B) The spindle of the swing bracke (all lenght).
 - * C) The spindles of the gearwheels (3 x all lenght).
 - * D) The pivot bearing of the pivot cover (pos 69)
(in the middle of the closing plate)
 - * E) E1The roller spindle on the top on diameter 1,2 mm
E2The metal pin on the motorplate assy (pos 15)
(Diameter 1,2 mm).
 - * F) The sliding surface on the top control bracket (pos 73)
in which the plastic pen of the motorplate assy is guiding.
 - * G) G1The guiding grooves (2 x) on the control bracket in
which the guide pins of the chassis are guiding.
G2The tag on the control bracket which actuate the switch brackets.
 - * H) The tag on the pressure plate (pos 66).
 - # I) The suspension pins (2 x) of the chassis.
The suspension pins (2 x) of the motorplate assy.
 - * J) The teeth of the control bracket.
 - * K) On the control bracket the sliding surface of the detection bracket.
- * MOLYCOTE PG 65/Q5-7565 code nr. 1304 501 0841
- # ETHANOL code nr. 1322 506 35201

Capacitors

2000	5322 122 32654	22NF10%X7R 63V
2001	5322 122 32654	22NF10%X7R 63V
2002	5322 122 32268	470PF 10% 50V
2003	4822 122 31746	1000PF 2%NP0 63V
2004	4822 122 32916	220NF10%X7R 63V
2005	4822 124 22646	47UF20% 16V
2006	4822 122 33584	220PF 5%
2007	4822 122 32916	220NF10%X7R 63V
2008	4822 122 33584	220PF 5%
2009	4822 121 51436	820NF10% 63V
2010	5322 122 33816	2200PF 2%NP0 63V
2011	4822 122 32542	47NF10%X7R 63V
2012	5322 122 32531	100PF 5%NP0 50V
2013	4822 122 33177	10NF 20% X7R 50V
2014	4822 122 31746	1000PF 2%NP0 63V
2015	4822 126 12104	12NF 5%
2016	5322 122 32654	22NF10%X7R 63V
2017	4822 126 12106	220NF 5%
2018	5322 122 32654	22NF10%X7R 63V
2019	4822 122 33177	10NF 20% X7R 50V
2020	4822 122 32916	220NF10%X7R 63V
2100	4822 122 32916	220NF10%X7R 63V
2101	4822 121 51361	5.6NF 2% 160V
2102	4822 121 51051	4.7NF 1% 160V
2103	4822 121 51262	910PF 1% 400V
2104	4822 124 22646	47UF20% 16V
2105	4822 126 12105	33NF 5%
2106	4822 122 32916	220NF10%X7R 63V
2107	4822 122 32916	220NF10%X7R 63V
2108	5322 122 32654	22NF10%X7R 63V
2109	5322 122 32654	22NF10%X7R 63V
2110	4822 122 32916	220NF10%X7R 63V
2111	4822 122 32916	220NF10%X7R 63V
2112	4822 122 33177	10NF 20% X7R 50V
2113	4822 122 32916	220NF10%X7R 63V
2114	4822 122 32916	220NF10%X7R 63V
2200	5322 122 32654	22NF10%X7R 63V
2201	4822 122 32916	220NF10%X7R 63V
2202	5322 122 32452	47PF 5%NP0 63V
2203	5322 122 32452	47PF 5%NP0 63V
2300	5322 122 33816	2200PF 2%NP0 63V
2301	5322 122 32452	47PF 5%NP0 63V
2302	4822 122 32916	220NF10%X7R 63V
2304	4822 122 33496	100NF10%X7R 63V
2305	4822 124 80453	100UF 20% 10V
2306	5322 122 32654	22NF10%X7R 63V
2307	4822 122 33584	220PF 5%
2308	4822 122 33496	100NF10%X7R 63V
2309	4822 124 23582	220UF 20% 10V
2311	4822 122 32916	220NF10%X7R 63V
2312	5322 122 32658	22PF 5% 50V
2313	5322 122 32658	22PF 5% 50V
2314	5322 122 32658	22PF 5% 50V
2315	4822 124 80109	0.22UF20% 50V
2316	5322 126 10223	4.7NF 5% XR7
2317	2222 580 16523	4.7NF 5% XR7
2320	4822 124 23582	220UF 20% 10V
2321	4822 122 33496	100NF10%X7R 63V
2322	4822 122 33496	100NF10%X7R 63V
2323	4822 122 33496	100NF10%X7R 63V
2324	4822 124 80453	100UF 20% 10V
2325	4822 124 22646	47UF20% 16V
2326	4822 122 32916	220NF10%X7R 63V
2327	4822 124 23279	22UF20% 16V
2328	5322 122 32654	22NF10%X7R 63V
2329	5322 122 32654	22NF10%X7R 63V
2331	4822 122 32916	220NF10%X7R 63V
2332	4822 124 11353	1UF 20% 16V

2333	5322 122 32268	470PF 10% 50V
2334	5322 122 32531	100PF 5%NP0 50V
2335	5322 122 32268	470PF 10% 50V
2336	5322 122 32531	100PF 5%NP0 50V
2337	4822 124 11353	1UF 20% 16V
2338	4822 122 33175	2.2NF 20% X7R 50V
2339	4822 122 33175	2.2NF 20% X7R 50V
2340	4822 122 33496	100NF10%X7R 63V
2341	4822 122 33496	100NF10%X7R 63V
2342	4822 122 33496	100NF10%X7R 63V
2400	4822 122 33496	100NF10%X7R 63V
2500	4822 122 33496	100NF10%X7R 63V
2501	4822 122 33496	100NF10%X7R 63V
2502	4822 122 33496	100NF10%X7R 63V
2600	4822 124 23282	1UF20% 50V
2601	4822 124 22646	47UF20% 16V
2602	5322 122 32654	22NF10%X7R 63V
2603	4822 124 22646	47UF20% 16V
2604	4822 124 22646	47UF20% 16V
2763	4822 124 23279	22UF20% 16V
2764	4822 124 23279	22UF20% 16V

Resistors

3000	4822 051 20472	4K70 5% 0,1W
3001	4822 051 20104	100K00 5% 0,1W
3002	4822 051 20229	22R00 5% 0,1W
3003	4822 051 20229	22R00 5% 0,1W
3004	4822 051 20101	100R00 5% 0,1W
3005	4822 051 51203	12K00 1% 0,125W
3006	4822 051 20101	100R00 5% 0,1W
3007	4822 051 20102	1K00 5% 0,1W
3008	4822 051 52403	24K00 1% 0,125W
3009	4822 051 53003	30K00 1% 0,125W
3010	4822 051 10222	2K20 2% 0,25W
3011	4822 051 20243	24K00 5% 0,1W
3012	4822 051 20224	220K00 5% 0,1W
3013	4822 051 20823	82K00 5% 0,1W
3014	4822 051 20478	4R70 5% 0,1W
3015	4822 051 20912	9K10 5% 0,1W
3016	4822 051 20229	22R00 5% 0,1W
3017	4822 051 51803	18K00 1% 0,125W
3018	4822 051 51203	12K00 1% 0,125W
3019	4822 051 20229	22R00 5% 0,1W
3020	4822 051 20243	24K00 5% 0,1W
3021	4822 051 20562	5K60 5% 0,1W
3022	4822 051 20223	22K00 5% 0,1W
3100	4822 051 10228	2R20 5% 0,25W
3101	4822 116 83634	5K6 0,25% 0.25W
3102	4822 050 22208	2R20 1% 0,6W
3103	4822 116 83634	5K6 0,25% 0.25W
3104	4822 051 10829	82R00 2% 0,25W
3105	4822 116 83634	5K6 0,25% 0.25W
3106	4822 051 20229	22R00 5% 0,1W
3107	4822 116 83634	5K6 0,25% 0.25W
3108	4822 051 20154	150K00 5% 0,1W
3109	4822 051 51803	18K00 1% 0,125W
3110	4822 051 51302	1K30 1% 0,125W
3111	4822 051 20512	5K10 5% 0,1W
3112	4822 051 20224	220K00 5% 0,1W
3113	4822 051 20223	22K00 5% 0,1W
3114	4822 051 54703	47K00 1% 0,125W
3115	4822 051 51803	18K00 1% 0,125W
3116	4822 051 20223	22K00 5% 0,1W
3117	4822 051 20473	47K00 5% 0,1W
3118	4822 051 20222	2K20 5% 0,1W
3119	4822 051 20332	3K30 5% 0,1W
3120	4822 051 20103	10K00 5% 0,1W
3200	4822 051 20223	22K00 5% 0,1W
3201	4822 051 20223	22K00 5% 0,1W

3202	4822 051 20223	22K00	5%	0,1W
3203	4822 051 20101	100R00	5%	0,1W
3204	4822 051 20224	220K00	5%	0,1W
3205	4822 051 20334	330K00	5%	0,1W
3206	4822 051 20104	100K00	5%	0,1W
3300	4822 051 20222	2K20	5%	0,1W
3301	4822 051 20223	22K00	5%	0,1W
3302	4822 051 20223	22K00	5%	0,1W
3303	4822 051 20478	4R70	5%	0,1W
3304	4822 051 20222	2K20	5%	0,1W
3305	4822 051 20008	0R00	5%	0,1W
3307	4822 051 10228	2R20	5%	0,25W
3311	4822 051 20224	220K00	5%	0,1W
3312	4822 051 20473	47K00	5%	0,1W
3313	4822 051 20182	1K80	5%	0,1W
3314	4822 051 20182	1K80	5%	0,1W
3319	4822 051 20229	22R00	5%	0,1W
3320	4822 051 20473	47K00	5%	0,1W
3321	4822 051 20104	100K00	5%	0,1W
3323	4822 051 53003	30K00	1%	0,125W
3324	4822 051 53003	30K00	1%	0,125W
3325	4822 051 20103	10K00	5%	0,1W
3326	4822 051 20104	100K00	5%	0,1W
3327	4822 051 20104	100K00	5%	0,1W
3328	4822 051 53003	30K00	1%	0,125W
3329	4822 051 53003	30K00	1%	0,125W
3330	4822 051 20102	1K00	5%	0,1W
3331	4822 051 20102	1K00	5%	0,1W
3332	4822 051 20229	22R00	5%	0,1W
3333	4822 051 20229	22R00	5%	0,1W
3400	4822 051 20154	150K00	5%	0,1W
3401	4822 051 10562	5K60	2%	0,25W
3402	4822 051 10682	6K80	2%	0,25W
3403	4822 051 10102	1K00	2%	0,25W
3404	4822 116 30426	4K7	3%	0,1W
3500	4822 051 20472	4K70	5%	0,1W
3501	4822 051 20102	1K00	5%	0,1W
3502	4822 051 20472	4K70	5%	0,1W
3503	4822 051 10008	0R00	5%	0,25W
3504	4822 051 20229	22R00	5%	0,1W
3505	4822 051 20229	22R00	5%	0,1W
3506	4822 051 20472	4K70	5%	0,1W
3507	4822 051 20472	4K70	5%	0,1W
3508	4822 051 20222	2K20	5%	0,1W
3509	4822 051 20562	5K60	5%	0,1W
3511	4822 051 20478	4R70	5%	0,1W
3512	4822 051 20102	1K00	5%	0,1W
3513	4822 051 20102	1K00	5%	0,1W
3514	4822 051 20334	330K00	5%	0,1W
3515	4822 051 20334	330K00	5%	0,1W
3516	4822 051 20102	1K00	5%	0,1W
3517	4822 051 20479	47R00	5%	0,1W
3600	4822 051 20122	1K20	5%	0,1W
3601	4822 051 20272	2K70	5%	0,1W
3602	4822 051 20472	4K70	5%	0,1W
3603	4822 051 10228	2R20	5%	0,25W
3604	4822 051 10228	2R20	5%	0,25W
3778	4822 051 20104	100K00	5%	0,1W
3779	4822 051 20479	47R00	5%	0,1W
3780	4822 051 20104	100K00	5%	0,1W
3799	4822 051 20479	47R00	5%	0,1W
4100	4822 051 20008	0R00	5%	0,1W
4200	4822 051 20008	0R00	5%	0,1W
4700	4822 051 20008	0R00	5%	0,1W
4701	4822 051 20008	0R00	5%	0,1W
Diodes				
5100	5322 130 31928	BAS16		
5200	5322 130 31928	BAS16		
5501	5322 130 34337	BAV99		

6502	5322 130 34337	BAV99		
6600	4822 130 33996	BZX84-C9V1		
6601	5322 130 33671	BZX84-C6V2		
6602	5322 130 34337	BAV99		
IC's				
7000	4822 209 31131	L272D		
7001	4822 209 73234	TDA8808T/C3		
7003	5322 130 61569	BC868		
7100	4822 209 62059	TCA0372DP1		
7101	4822 209 31973	TDA8809T/C2/S1/13		
7102	4822 130 60511	BC847B		
7103	5322 130 41983	BC858B		
7200	4822 130 60511	BC847B		
7201	4822 209 32153	MC68HC705C8CFN- CDM9V06		
7202	5322 209 14481	HEF4053BT		
7302	4822 209 30388	SAA7341GP		
7303	4822 209 31553	HY6264ALJ-10		
7304	4822 209 31131	L272D		
7305	5322 130 41983	BC858B		
7306	4822 209 30095	LM833D		
7400	4822 209 30510	LM 2904D		
7500	4822 209 31131	L272D		
7600	4822 130 60511	BC847B		
7602	4822 130 60511	BC847B		
Miscellaneous				
1001	4822 267 50838	14 PIN		
1001	4822 214 52063	PCB CDM9-MOD-4		
1020	4822 265 41209	12P		
1030	4822 265 30957	4P		
1040	4822 265 30956	2P		
1050	4822 265 30958	2P		
1200	4822 242 70831	CSA 4,00MG		
1300	4822 242 81414	16,934MHZ		
1002	4822 691 10366			
1 1002	4822 691 10396	CARLOADER		
1003	4822 267 51146	12 PIN GOLD		
2001	4822 122 33496	100NF 10% XR7 63V		