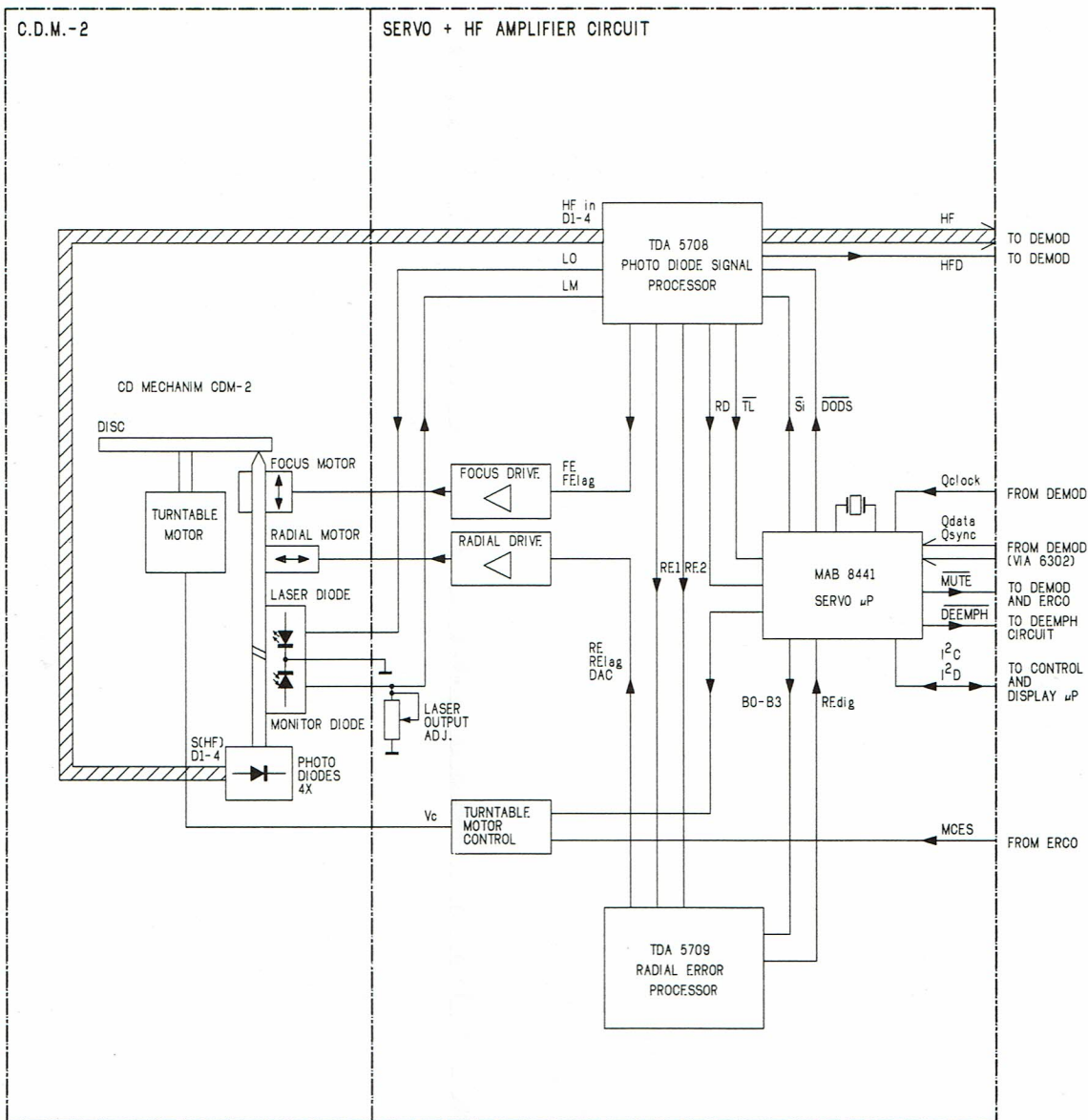


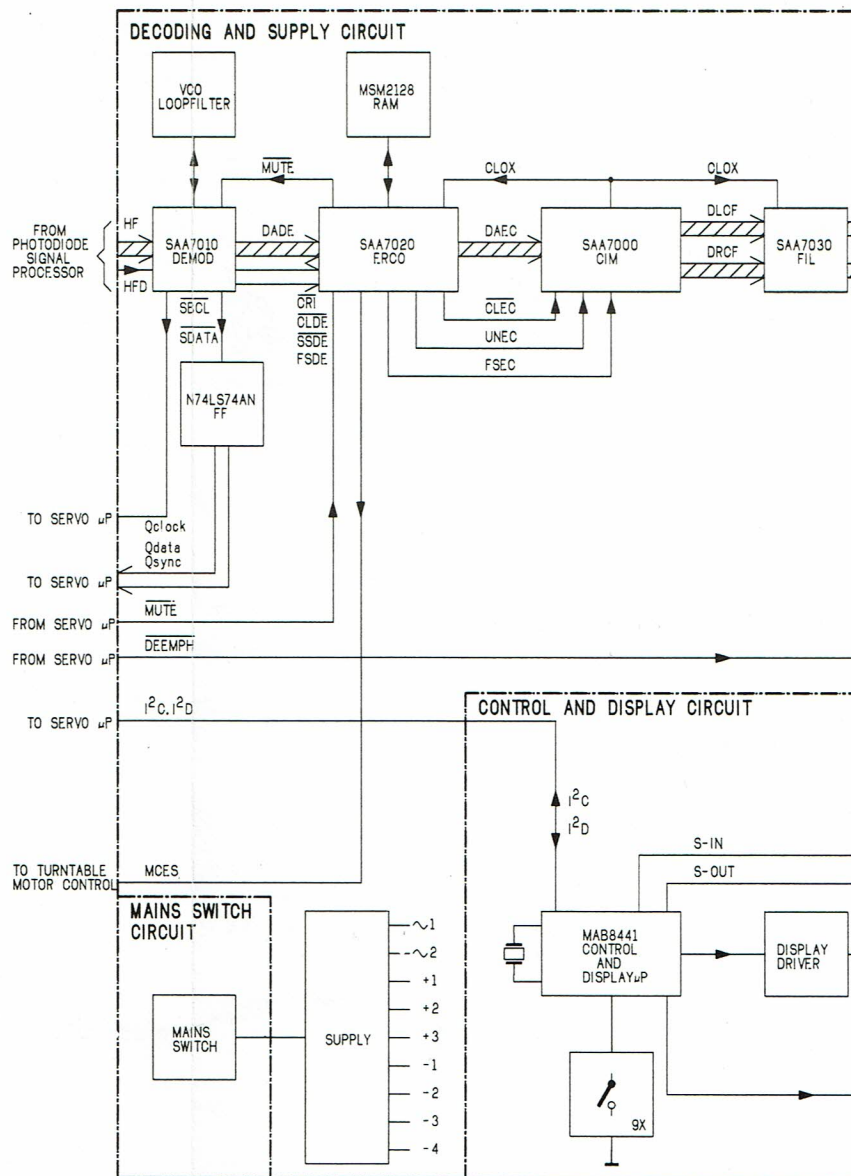
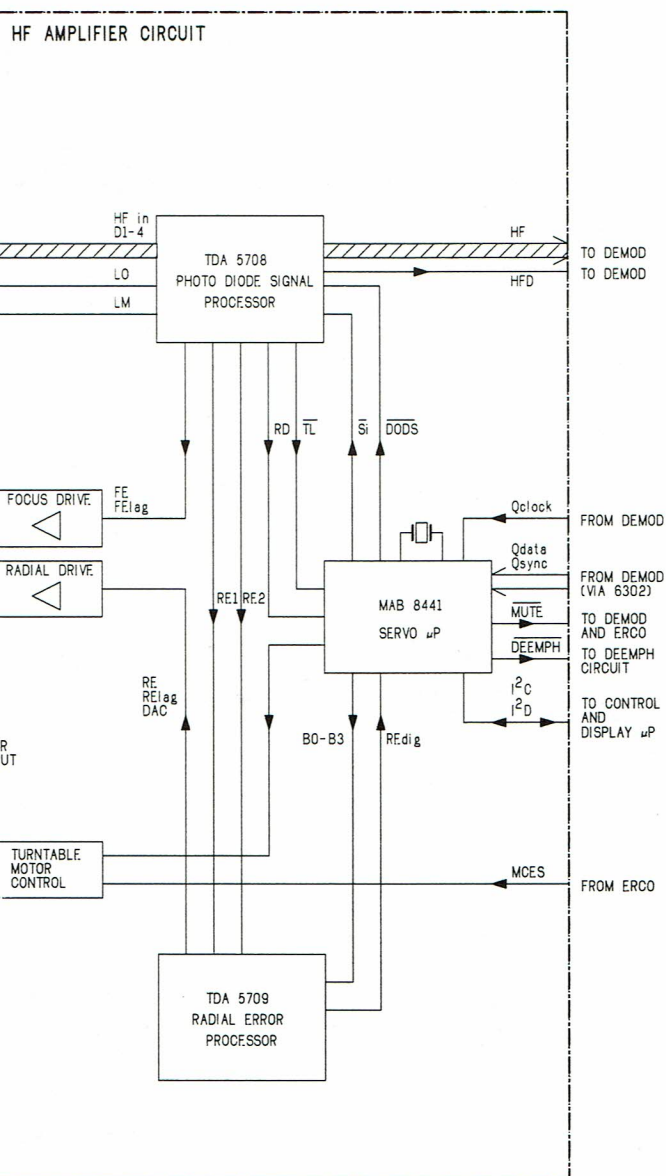
BLOCK DIAGRAM



PRS.00498

B0-B3	-	Control bits for radial circuit
DAC	-	Current output for track jumping (Digital to Analogue Converted)
DEEMPH	-	Deemphasis
DODS	-	Drop out detector suppression
D1+4	-	Photodiode currents
FE	-	Focus error signal
FE lag	-	Focus error signal for LAG network
HF	-	HF output for DEMOD
HFD	-	HF detector output for DEMOD
HF-in	-	HF current input
I2C	-	Clock signal servo-control μ P
I2D	-	Data signal servo-control μ P
LM	-	Laser monitor diode input
LO	-	Laser amplifier current output
MCES	-	Motor control from ERCO to servo circuit
MUTE	-	Mute signal

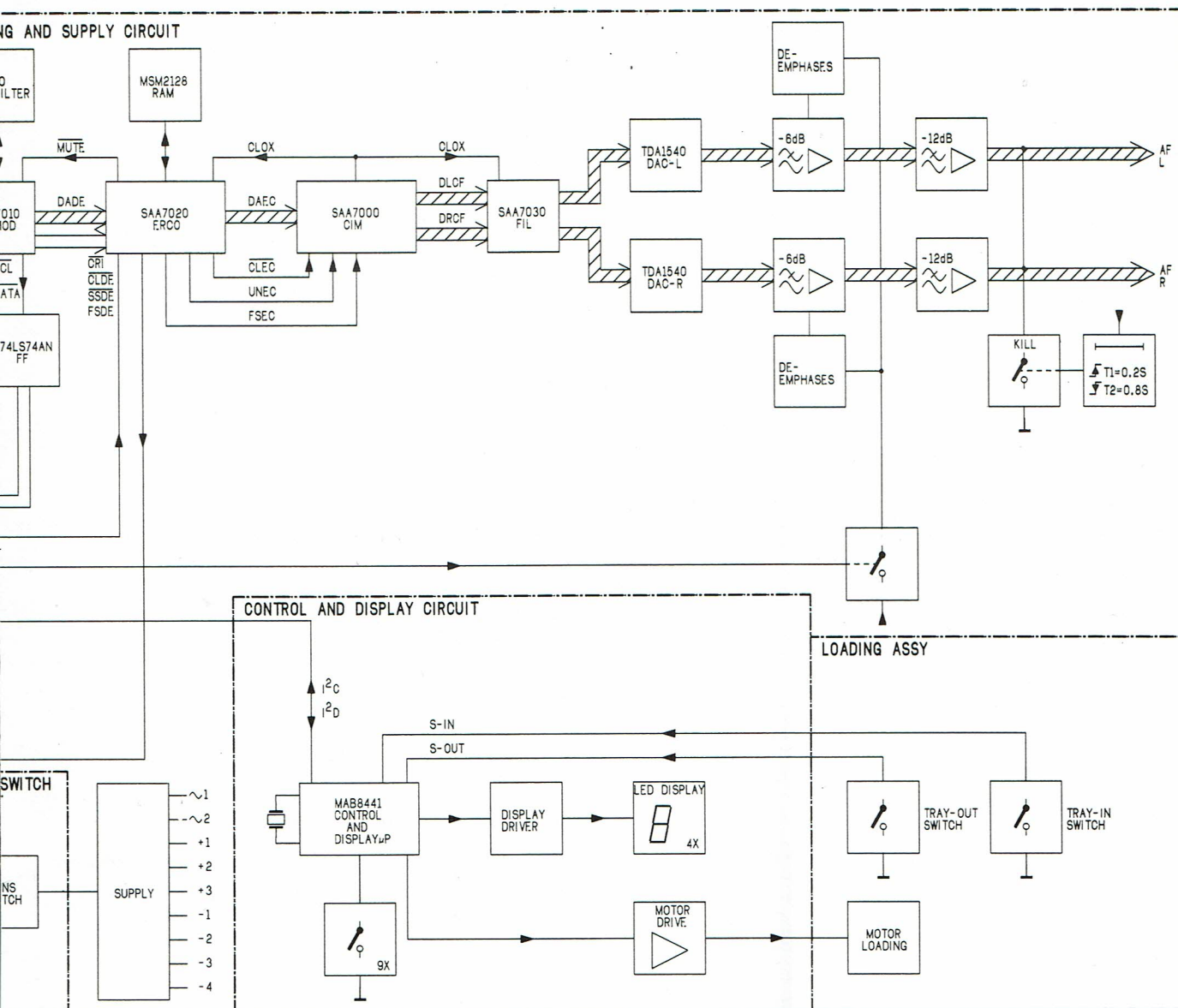
Q CLOCK	-	Subcode clock input for servo μ P
Q DATA	-	Subcode data input for servo μ P
Q SYNC	-	Subcode synchronization input for servo μ P
RE	-	Radial error signal (amplified RE_2 - RE_1 currents)
RE1	-	Radial error signal 1 (summation of amplified currents D_3 and D_4)
RE2	-	Radial error signal 2 (summation of amplified currents D_1 and D_2)
RE dig	-	Radial error digital
RE lag	-	Radial error signal for LAG network
RD	-	Ready signal, starting up procedure finished
Si	-	On/off control for laser supply and focus circuit
TL	-	Track loss signal
Vc	-	Control voltage for turntable motor



PRS.00498

HF amplifier circuit	Q CLOCK	-	Subcode clock input for servo μP
RF jumping (converted)	Q DATA	-	Subcode data input for servo μP
Demodulation	Q SYNC	-	Subcode synchronization input for servo μP
LAG network	RE	-	Radial error signal (amplified RE ₂ -RE ₁ currents)
DEMOP	RE1	-	Radial error signal 1 (summation of amplified currents D ₃ and D ₄)
Control μP	RE2	-	Radial error signal 2 (summation of amplified currents D ₁ and D ₂)
Control μP	RE dig	-	Radial error digital
Input	RE lag	-	Radial error signal for LAG network
Output	RD	-	Ready signal, starting up procedure finished
CO to servo	Si	-	On/off control for laser supply and focus circuit
	TL	-	Track loss signal
	Vc	-	Control voltage for turntable motor

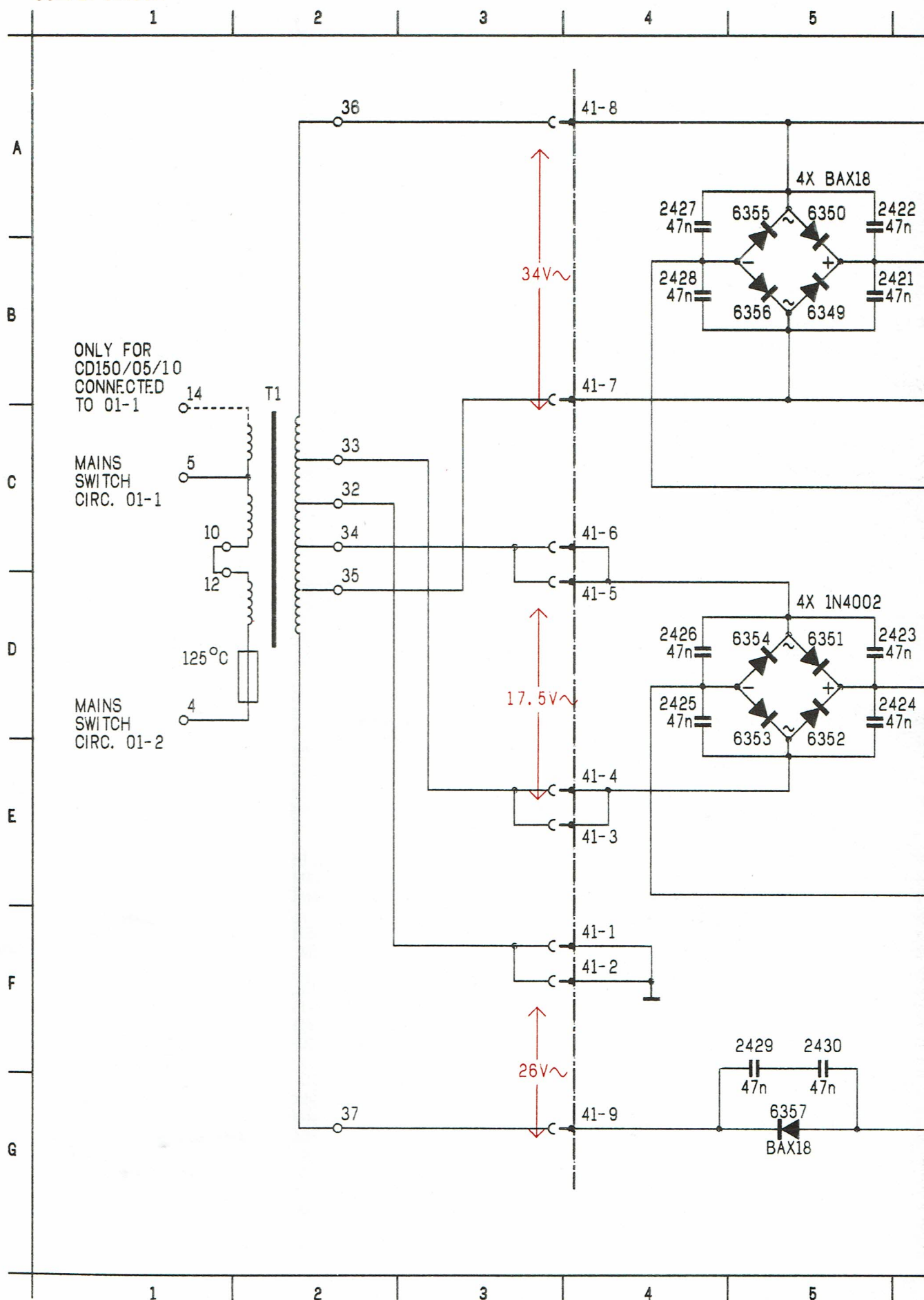
CLDE	-	C
CLEC	-	C
CLOX	-	C
CRI	-	C
DADE	-	D
DAEC	-	D
DEEMPH	-	D
DLCF	-	D
DRCF	-	D
FSDE	-	F
FSEC	-	F
HF	-	H
HFD	-	H
I²C	-	C
I²D	-	D
MCES	-	M
MUTE	-	M
Q CLOCK	-	S
Q DATA	-	S
Q SYNC	-	S
SBCL	-	S
S DATA	-	S
S-IN	-	T
S-OUT	-	T
UNEC	-	U

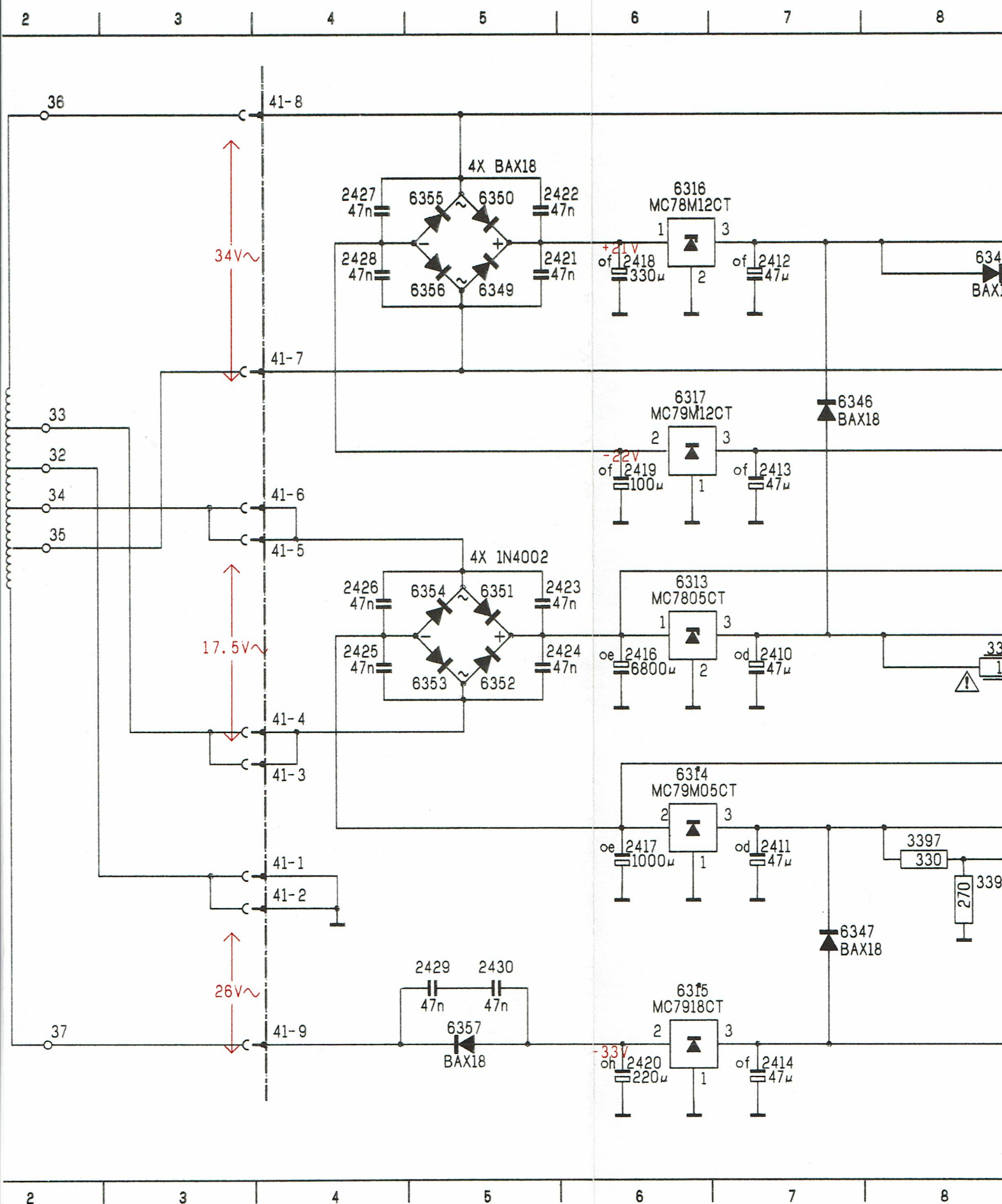


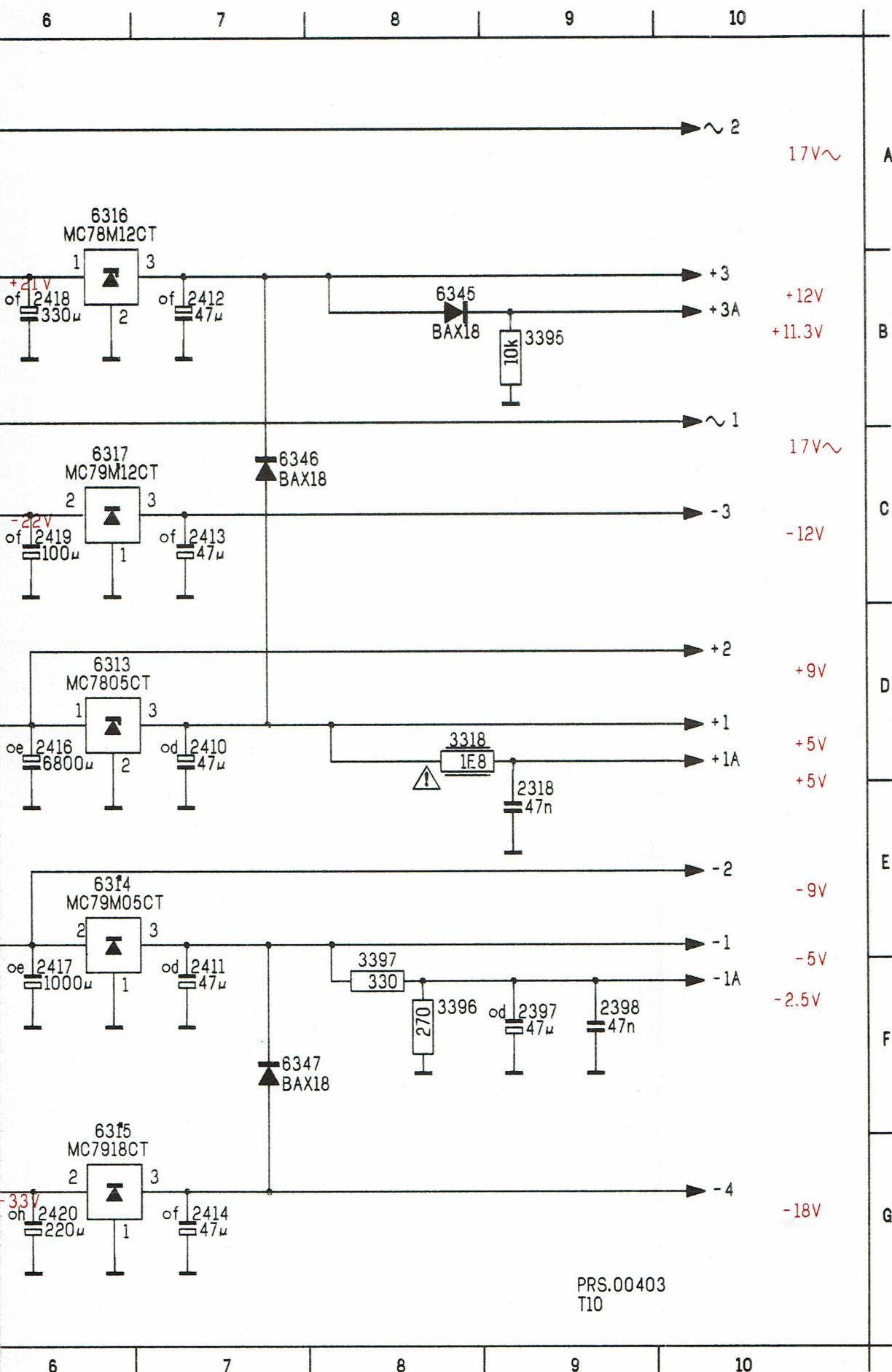
PRS.00499

CLDE	-	Clock from DEMOD to ERCO
CLEC	-	Clock from ERCO to CIM
CLOX	-	Clock from CIM (SystemClock)
CRI	-	Counter reset inhibit
DADE	-	Data from DEMOD to ERCO
DAEC	-	Data from ERCO to CIM
DEEMPH	-	Deemphasis
DLCF	-	Data left from CIM to FIL
DRCF	-	Data right from CIM to FIL
FSDE	-	Frame sync. from DEMOD to ERCO
FSEC	-	Frame sync. from ERCO to CIM
HF	-	HF input for DEMOD
HFD	-	HF detector for DEMOD
I²C	-	Clock signal servo-control μP
I²D	-	Data signal servo-control μP
MCES	-	Motor control from ERCO to servo
MUTE	-	Mute signal
Q CLOCK	-	Subcode clock signal
Q DATA	-	Subcode data signal
Q SYNC	-	Subcode synchronization signal
SBCL	-	Subcode bit clock
S DATA	-	Subcode data
S-IN	-	Tray in
S-OUT	-	Tray out
UNEC	-	Unreliable data flag from ERCO to CIM

SUPPLY CIRCUIT





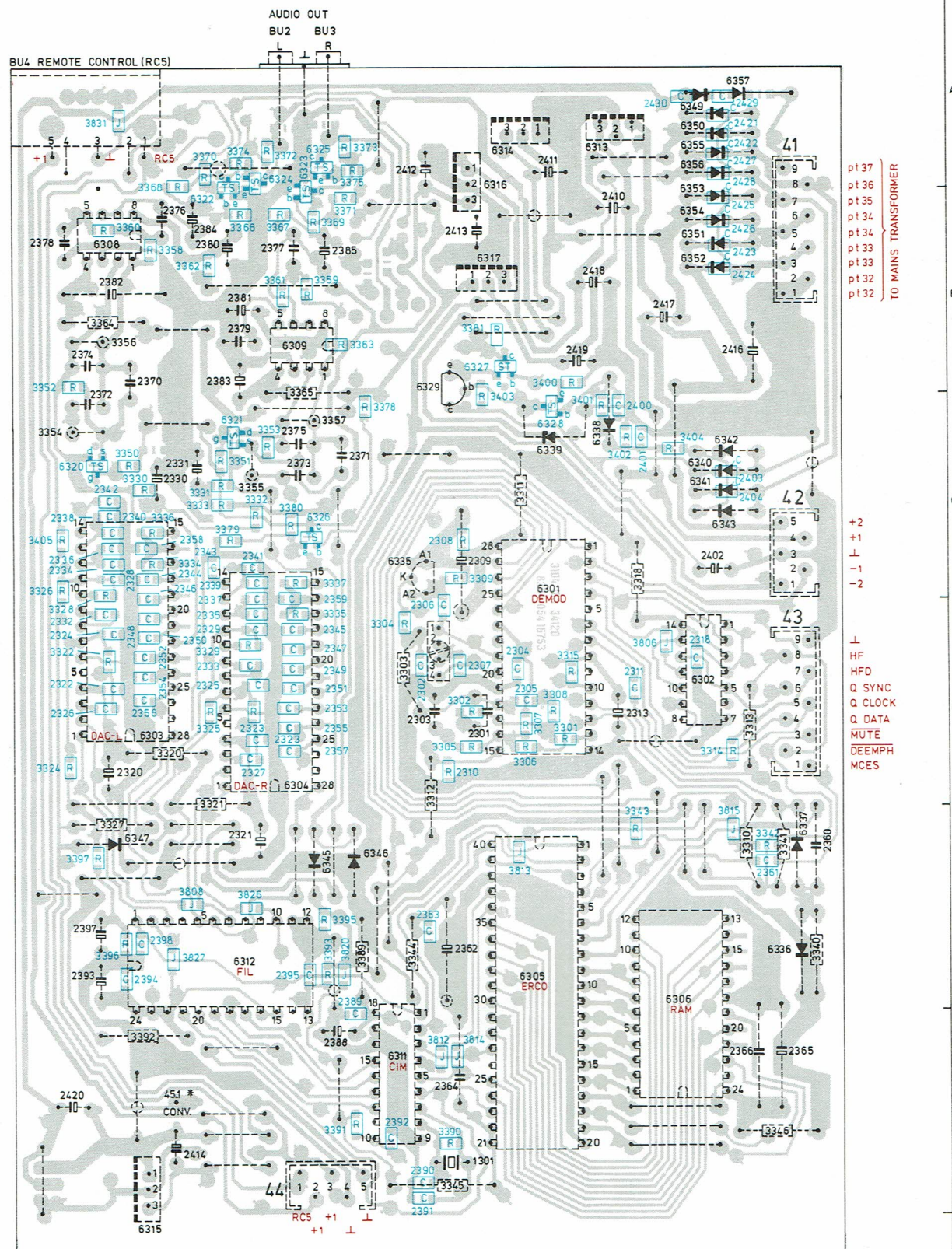


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2398	F	9
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2412	B	7
2413	C	7
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2416	D	6
2417	F	6
2418	B	6
2419	C	6
2420	G	6
2421	B	6
2422	A	6
2423	D	6
2424	D	6
2425	D	4
2426	D	4
2427	A	4
2428	B	4
2429	F	5
2430	F	5
3318	D	8
3395	B	9
3396	F	8
3397	F	8
6345	B	8
6346	C	7
6347	F	7
6349	B	5
6350	A	5
6351	D	5
6352	D	5
6353	D	5
6354	D	5
6355	A	5
6356	B	5
6357	G	5
T1	B	2

PRS.00403
T10

For non active chipcomponents see seperate list

2301	F3	2305	D3	2310	D3	2321	E4	2326	D5	2331	C4	2336	C5	2341	C4	2346	C4	2352	D4
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2302	D3	2307	D3	2313	D2	2323	D4	2328	C5	2333	D4	2338	C5	2343	C4	2348	D4	2354	D4
2303	D3	2308	C3	2318	D2	2324	D5	2329	D4	2334	C5	2339	C4	2344	C4	2350	D4	2355	D4
2304	D3	2309	C3	2320	D5	2325	D4	2330	C4	2335	D4	2340	C5	2345	D4	2351	D4	2356	D4
2357	D4	2362	E3	2370	B5	2375	C4	2380	B4	2385	B4	2392	F3	2400	C2	2410	B2	2416	B1
2358	C4	2363	E3	2371	C3	2376	B4	2381	B4	2388	F3	2394	E5	2401	C2	2411	A2	2417	B2
2359	C4	2364	F3	2372	C5	2377	B4	2382	B5	2389	E4	2395	F4	2402	C2	2412	A3	2418	B2
2360	E1	2365	F1	2373	C4	2378	B5	2383	B4	2390	F3	2396	E5	2403	C2	2413	B3	2419	B2
2361	E1	2366	F1	2374	B5	2379	B4	2384	B4	2391	F3	2397	E5	2404	C2	2414	F4	2420	F5
2421	A2	2426	B2	2332	D5	2305	D3	2310	E1	2315	D2	2323	D4	2329	D4	2334	C4	2341	E1
2422	A2	2427	A2	2301	D2	2306	D3	2311	C3	2318	C2	2324	D5	2330	C4	2335	D4	2342	E1
2423	B2	2428	A2	2302	D3	2307	D3	2312	D3	2320	D4	2325	D4	2331	C4	2336	C4	2343	E2
2424	B2	2429	A1	2303	D3	2308	D2	2313	D1	2321	D4	2326	C5	2332	C4	2337	C4	2344	E3
2425	B2	2430	A2	2304	D3	2309	C3	2314	D2	2322	D5	2328	C5	2333	C4	2340	E1	2345	F3
3346	F1	3354	C5	3360	B5	3365	B4	3370	A4	3375	A3	3380	C4	3391	F3	3400	B2	3405	C5
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3352	B5	3357	C4	3363	B3	3368	A4	3373	A3	3378	C3	3389	E3	3395	E4	3403	B3	3412	F3
3353	C4	3359	B4	3364	B5	3369	B4	3374	A4	3379	C4	3390	F3	3396	E5	3404	C2	3413	E3
3814	F3	3831	A5	6304	D4	6310	B3	6316	A3	6323	A4	6328	C2	6338	C2	6343	C2	6351	B2
3815	E2	3801	D3	6305	E3	6311	F3	6317	B3	6324	A4	6329	B3	6339	C2	6345	E4	6352	B2
3820	E3	6301	C2	6306	E2	6312	E4	6320	C5	6325	A4	6335	C3	6340	C2	6346	E3	6353	B2
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3827	E4	6303	D4	6309	B4	6314	A3	6322	A4	6327	B3	6337	E1	6342	C2	6350	A2	6355	A2
6356	A2																		
6357	A2																		



pt 37
pt 36
pt 35
pt 34
pt 34
pt 33
pt 33
pt 32
pt 32

TO MAINS TRANSFORMER

+2
+1
-1
-2

⊥
HF
HFD
Q SYNC
Q CLOCK
Q DATA
MUTE
DEEMPH
MCES

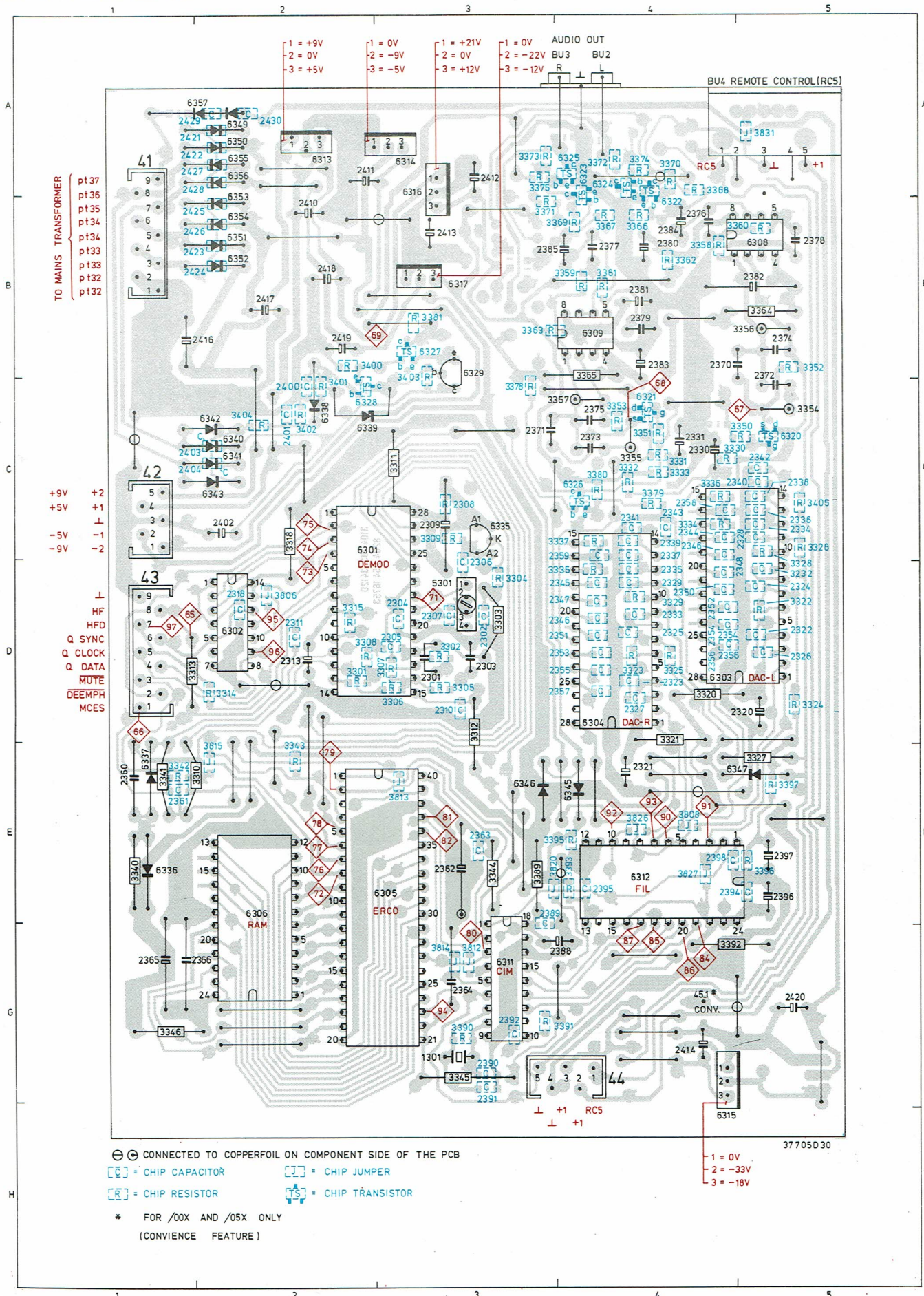
37704D30

⊙ = CONNECTED TO COPPERFOIL ON COMPONENT SIDE OF THE PCB

C = CHIP CAPACITOR J = CHIP JUMPER
R = CHIP RESISTOR TS = CHIP TRANSISTOR

* FOR /00X AND /05X ONLY
(CONVENIENCE FEATURE)

6-4
1985-07-01
SUPPLY + DECODER PCB



For non active chipcomponents see seperate list

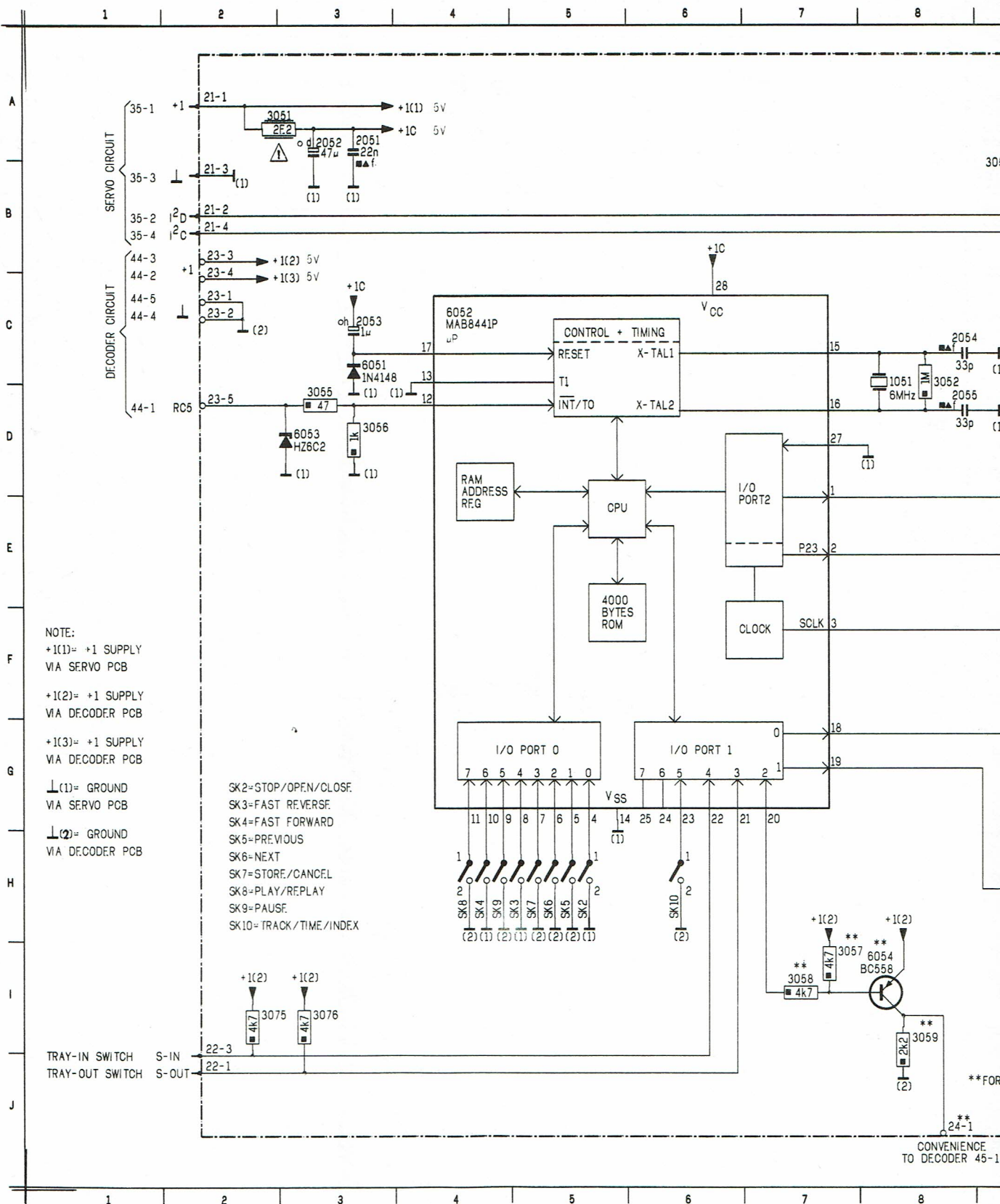
For non active chipcomponents see seperate list

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2302	D3	2307	D3	2313	D2	2323	D4	2328	C5	2333	D4	2338	C5	2343	C4	2348	D4	2354	D4
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2304	D3	2309	C3	2320	D5	2325	D4	2330	D4	2335	D4	2340	C5	2345	D4	2351	D4	2356	D4
2357	D4	2362	E3	2370	B5	2375	C4	2380	B4	2385	B4	2392	F3	2400	C2	2410	B2	2416	B1
2358	C4	2363	E3	2371	C3	2376	B4	2381	B4	2388	F3	2394	E5	2401	C2	2411	A2	2417	B2
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2361	E1	2366	F1	2374	B5	2379	B4	2384	B4	2391	F3	2397	E5	2404	C2	2414	F4	2420	F5
2421	A2	2426	B2	2332	D5	3305	D3	3310	E1	3315 -	D2	3323	D4	3329	D4	3334	C4	3341	E1
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2425	B2	2430	A2	3304	D3	3309	C3	3314	D2	3322	D5	3328	C5	3333	C4	3340	E1	3345	F3
3346	F1	3354	C5	3360	B5	3365	B4	3370	A4	3375	A3	3380	C4	3391	F3	3400	B2	3405	C5
3350	C5	3355	C4	3361	B4	3366	B4	3371	B3	3376	B3	3381	B3	3392	F4	3401	C2	3806	D2
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3352	B5	3357	C4	3363	B3	3368	A4	3373	A3	3378	C3	3389	E3	3395	E4	3403	B3	3812	F3
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3814	F3	3831	A5	6304	D4	6310	B3	6316	A3	6323	A4	6328	C2	6338	C2	6343	C2	6351	B2
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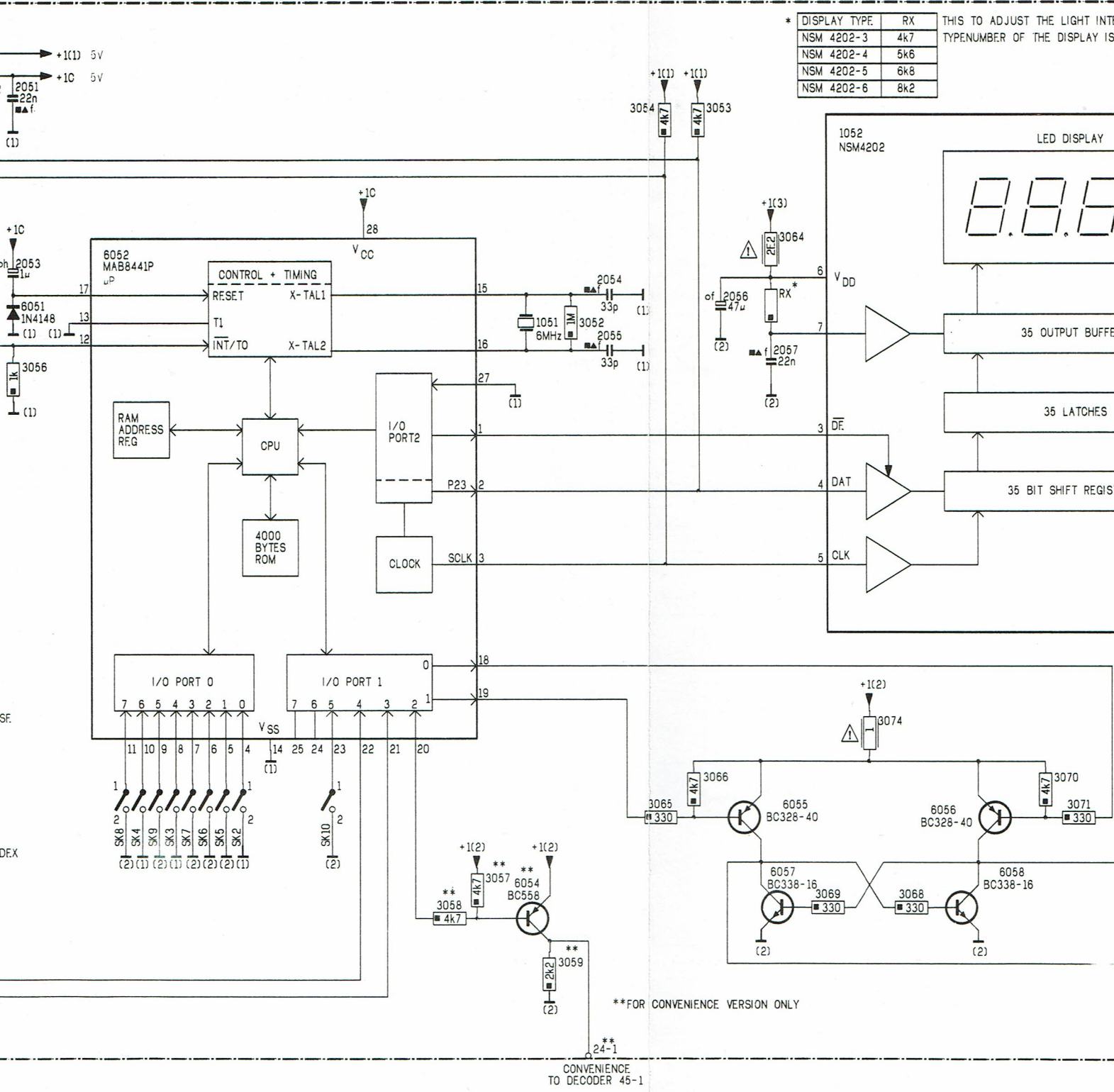
1985-07-01

CONTROL + DISPLAY CIRCUIT

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1052	B 11	1054	D 15	2051	A 3	2053	C 3	2055	D 8	2057	D 10	3051	A 3	3053	B 9	3055	D 3	3057	I 7	3059	I 8	3065	H 9

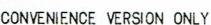


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2055	D 8	2057	D10	3051	A 3	3053	B 9	3055	D 3	3057	I 7	3059	I 8	3065	H 9	3068	I11	3070	H12	3072	B16	3075	I 2	3080	F16	6052	C 4
	4		5		6		7		8		9		10		11		12										



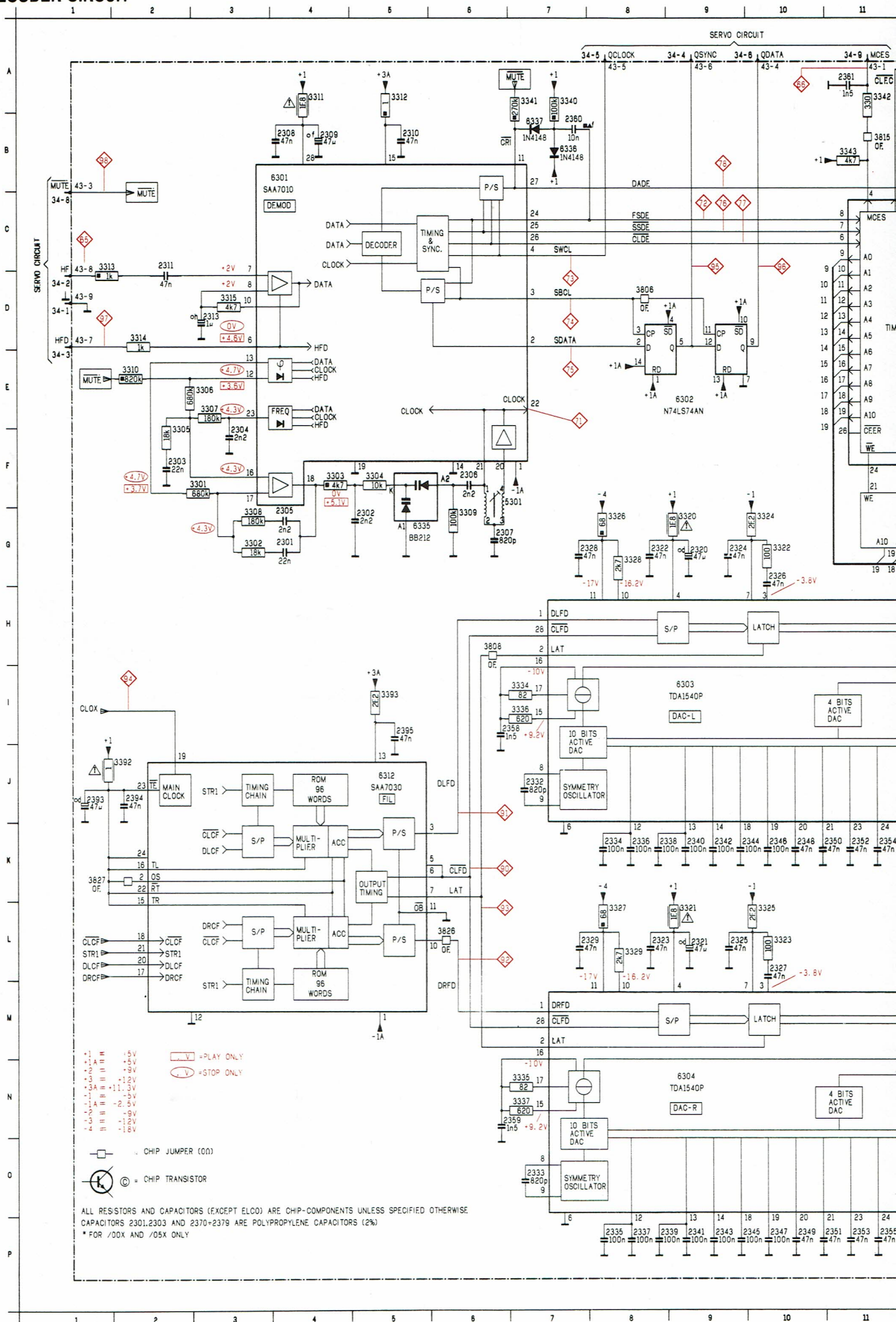
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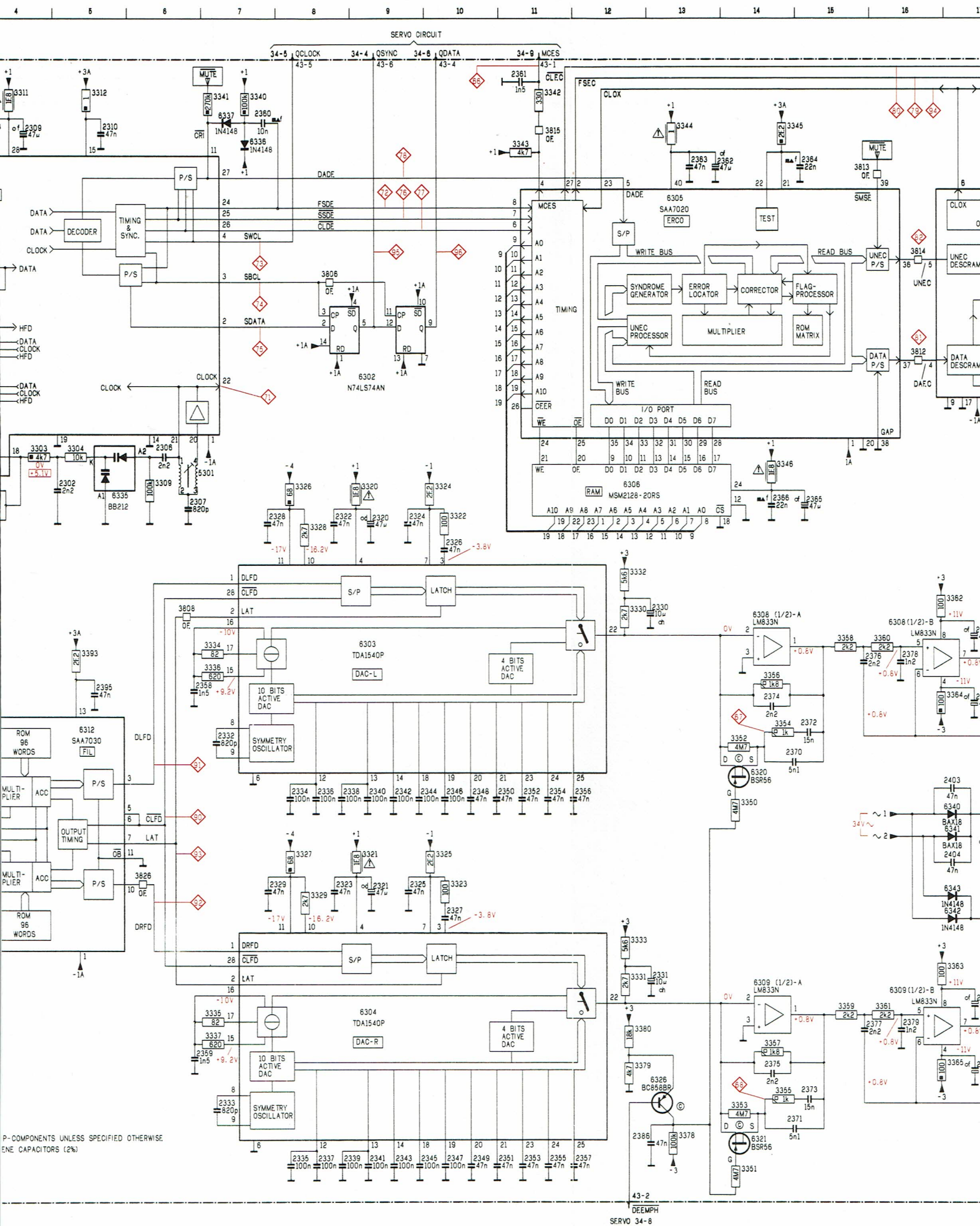
THIS TO ADJUST THE LIGHT INTENSITY OF THE LED DISPLAY.
TYPENUMBER OF THE DISPLAY IS PRINTED ON THE REAR SIDE.

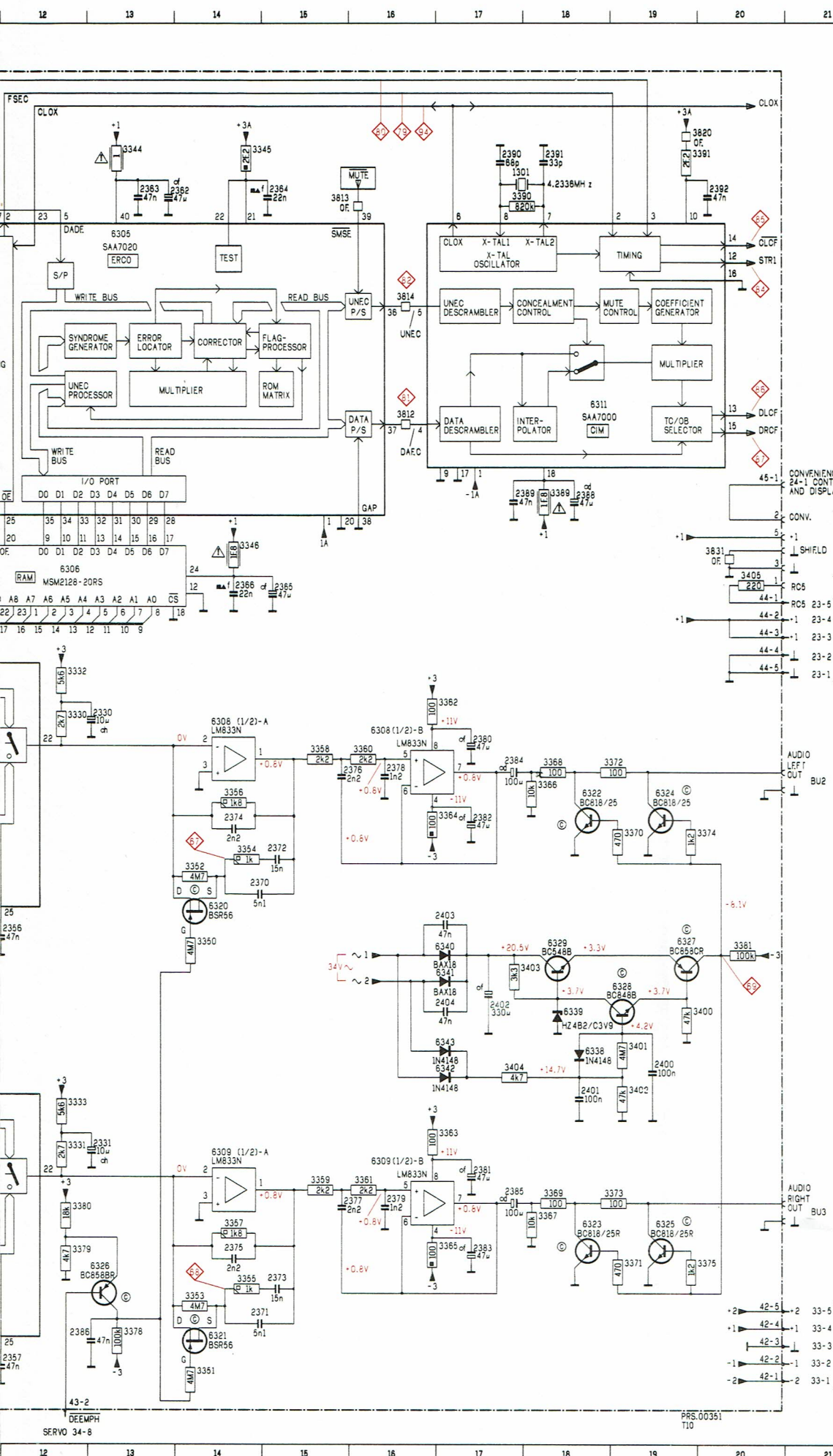


PRS.00353
T 3

DECODER CIRCUIT

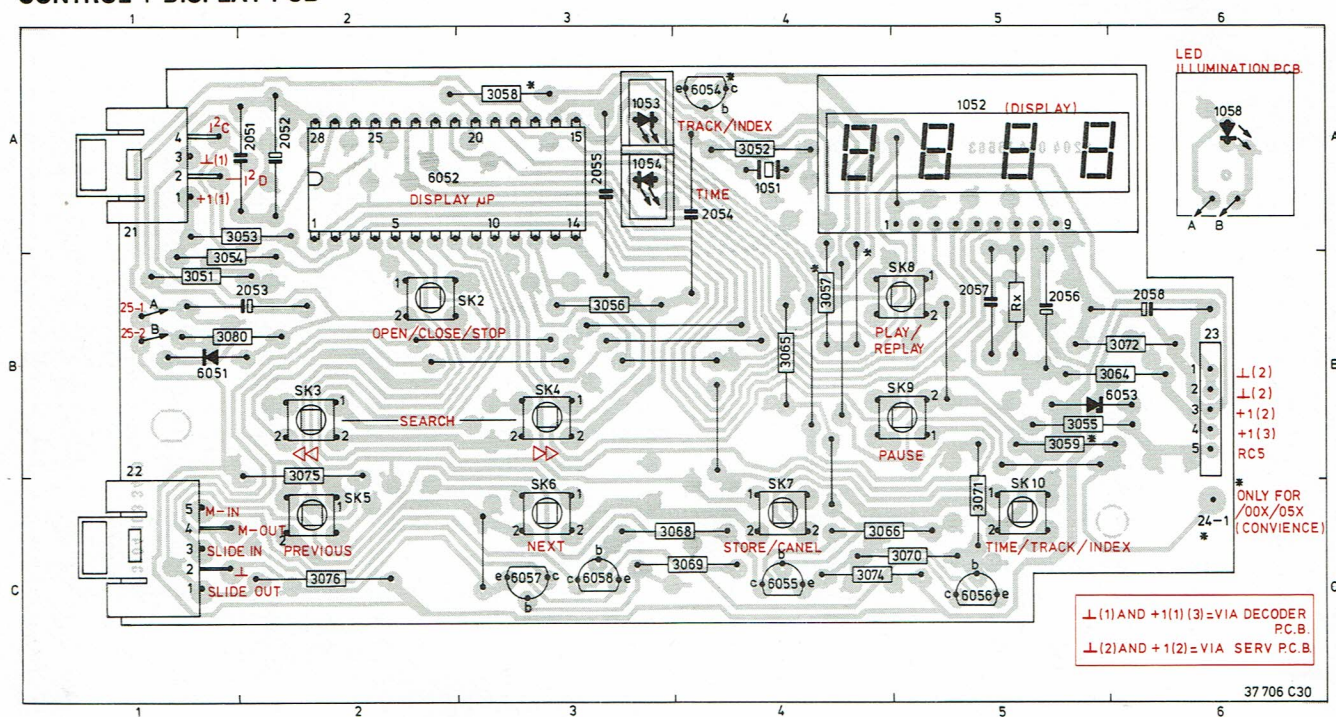






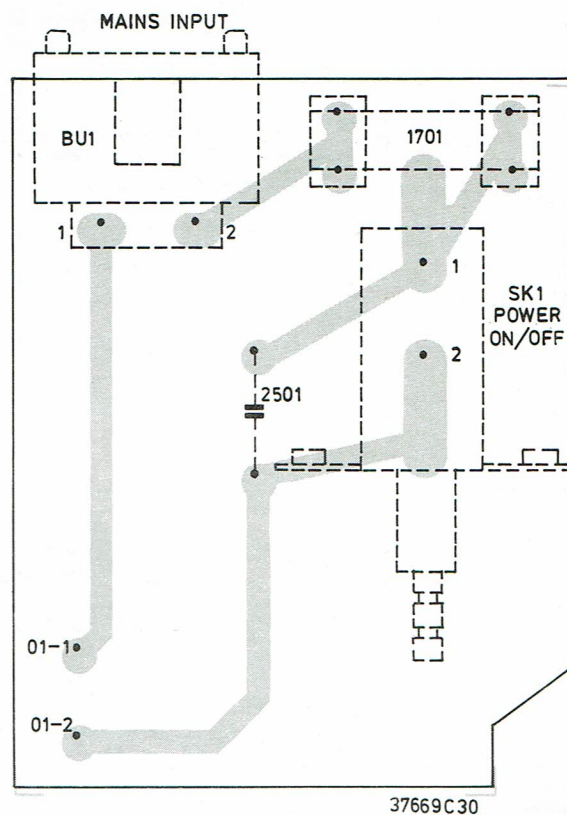
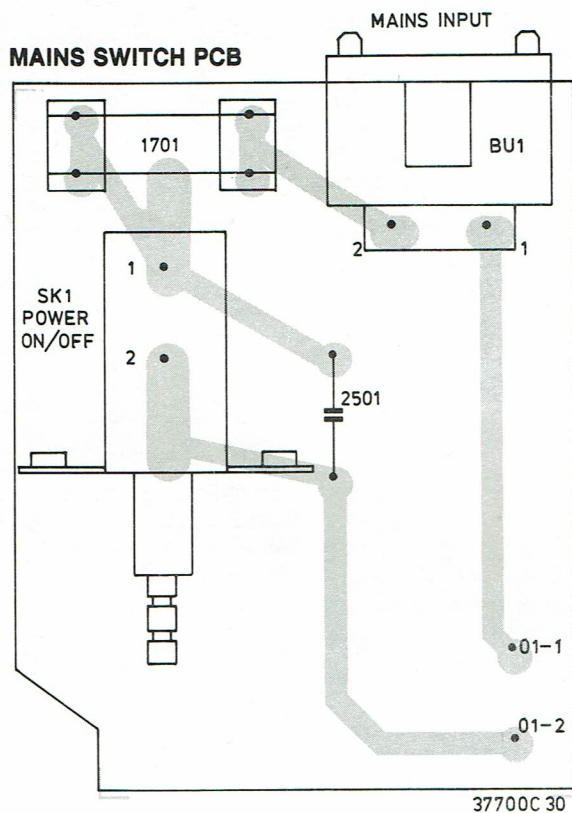
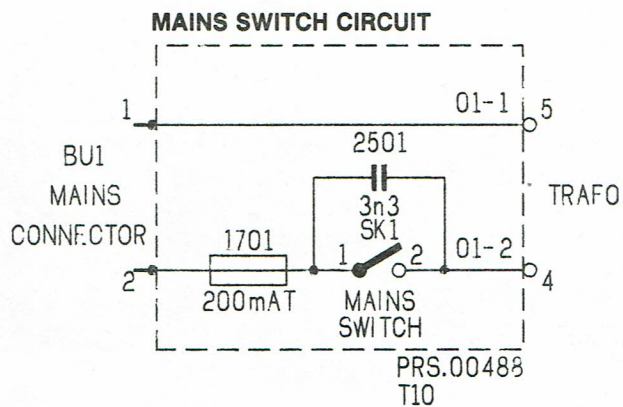
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2303	F18	3382	F18
2304	F18	3383	I15
2305	F18	3384	L17
2306	F18	3385	L17
2307	G16	3386	H16
2308	B14	3387	K11
2309	B14	3388	F20
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2312	L18	3391	L19
2313	D13	3392	J12
2314	L18	3393	I15
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2376	L18	3455	L17
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2380	L18	3459	L17
2381	L18	3460	L17
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2385	L18	3464	L17
2386	L18	3465	L17
2387	L18	3466	L17
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2394	L18	3473	L17
2395	L18	3474	L17
2396	L18	3475	L17
2397	L18	3476	L17
2398	L18	3477	L17
2399	L18	3478	L17
2400	L18	3479	L17
2401	L18	3480	L17
2402	L18	3481	L17
2403	L18	3482	L17
2404	L18	3483	L17
2405	L18	3484	L17
2406	L18	3485	L17
2407	L18	3486	L17
2408	L18	3487	L17
2409	L18	3488	L17
2410	L18	3489	L17
2411	L18	3490	L17
2412	L18	3491	L17
2413	L18	3492	L17
2414	L18	3493	L17
2415	L18	3494	L17
2416	L18	3495	L17
2417	L18	3496	L17
2418	L18	3497	L17
2419	L18	3498	L17
2420	L18	3499	L17
2421	L18	3500	L17
2422	L18	3501	L17
2423	L18	3502	L17
2424	L18	3503	L17
2425	L18	3504	L17
2426	L18	3505	L17
2427	L18	3506	L17
2428	L18	3507	L17
2429	L18	3508	L17
2430	L18	3509	L17
2431	L18	3510	L17
2432	L18	3511	L17
2433	L18	3512	L17
2434	L18	3513	L17
2435	L18	3514	L17
2436	L18	3515	L17
2437	L18	3516	L17
2438	L18	3517	L17
2439	L18	3518	L17
2440	L18	3519	L17
2441	L18	3520	L17
2442	L18	3521	L17
2443	L18	3522	L17
2444	L18	3523	L17
2445	L18	3524	L17
2446	L18	3525	L17
2447	L18	3526	L17
2448	L18	3527	L17
2449	L18	3528	L17
2450	L18	3529	L17
2451	L18	3530	L17
2452	L18	3531	L17
2453	L18	3532	L17
2454	L18	3533	L17
2455	L18	3534	L17
2456	L18	3535	L17
2457	L18	3536	L17
2458	L18	3537	L17
2459	L18	3538	L17
2460	L18	3539	L17
2461	L18	3540	L17
2462	L18	3541	L17
2463	L18	3542	L17
2464	L18	3543	L17

CONTROL + DISPLAY PCB



6052	μP MAB8441P/T0144822 209 11063	
BC328-40 BC338-16 BC558	4822 130 41715 4822 130 40892 4822 130 44197	
IN4148 HZ6C2 (6V2)	4822 130 30621 4822 130 32698	
1053,1054 1058	TLR123 (RED) MV5460 (GREEN)	5322 130 34957 4822 130 32842
3051,3064 3072 3074	2,2Ω-NFR25 3,3Ω-NFR25 1Ω-NFR25	4822 111 30492 4822 111 30593 4822 111 30483
1051	X-tal 6MHz	4822 242 70392
Display		
1052	NSM4202	4822 130 90141
SK2+10	TACT SWITCH	4822 276 11276

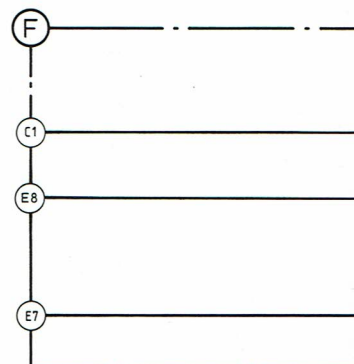
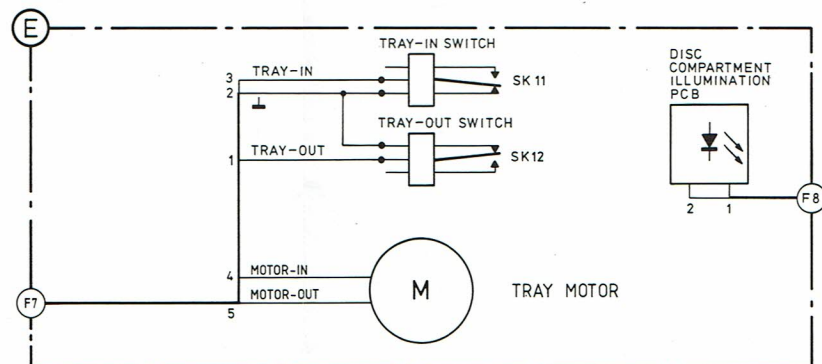
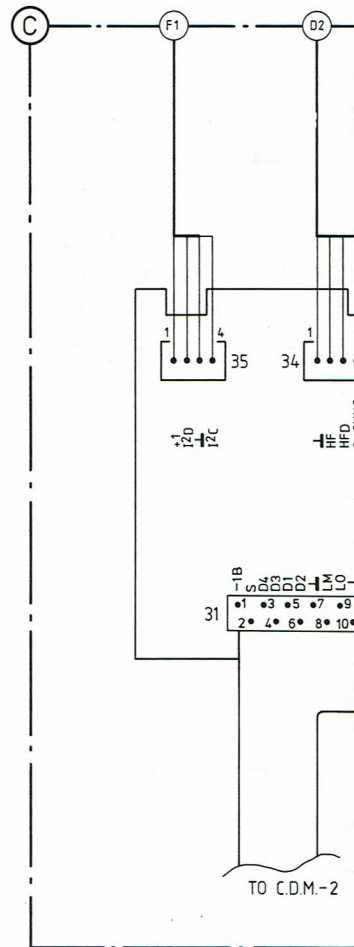
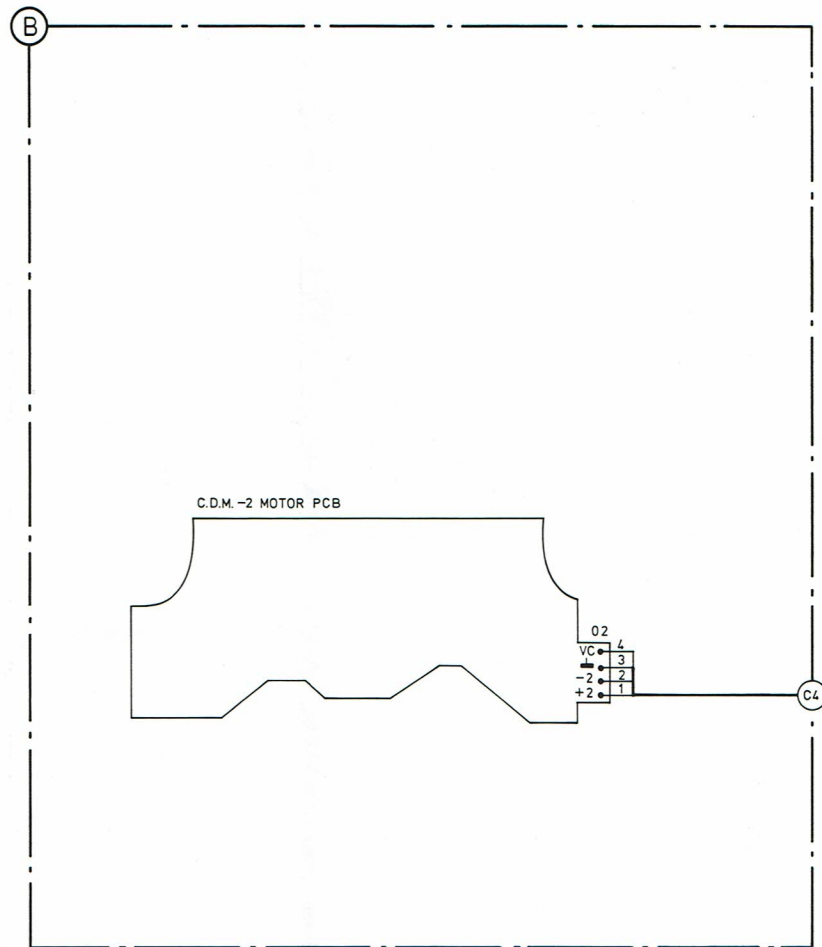
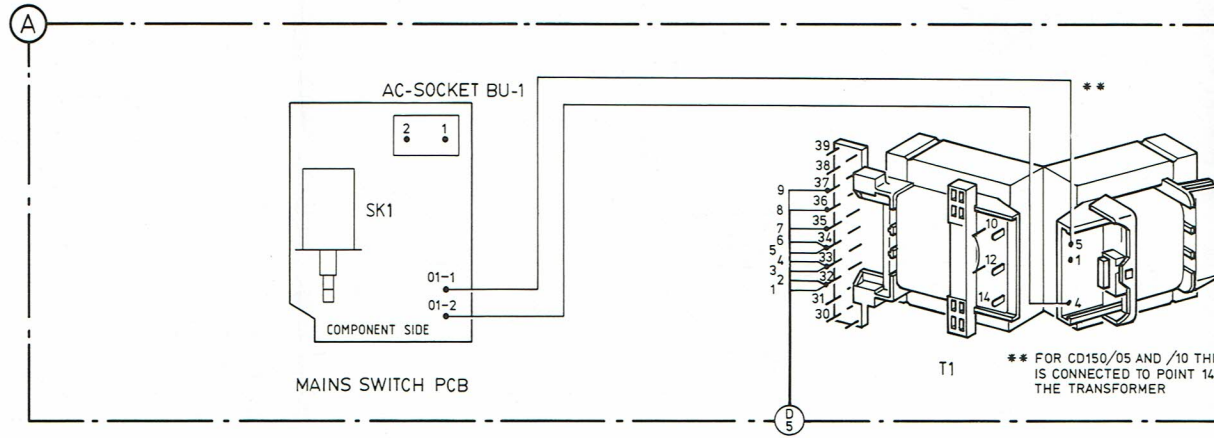
RX	B5
SK2	B2
SK3	B2
SK4	B3
SK5	C2
SK6	C3
SK7	C4
SK8	B5
SK9	B5
1051	A4
1052	A5
1053	A3
1054	A3
1058	A6
2051	A2
2052	A2
2053	B2
2054	A4
2055	A3
2056	B5
2057	B5
2058	B6
3051	B1
3052	A4
3053	A1
3054	B1
3055	B5
3056	B3
3057	B4
3058	A3
3059	B5
3064	B6
3065	B4
3066	C4
3068	C3
3069	C4
3070	C5
3071	C5
3072	B6
3074	C4
3075	B2
3076	C2
3080	B1
6051	B1
6052	A2
6053	B5
6054	A4
6055	C4
6056	C5
6057	C3
6058	C3
SK10	C5

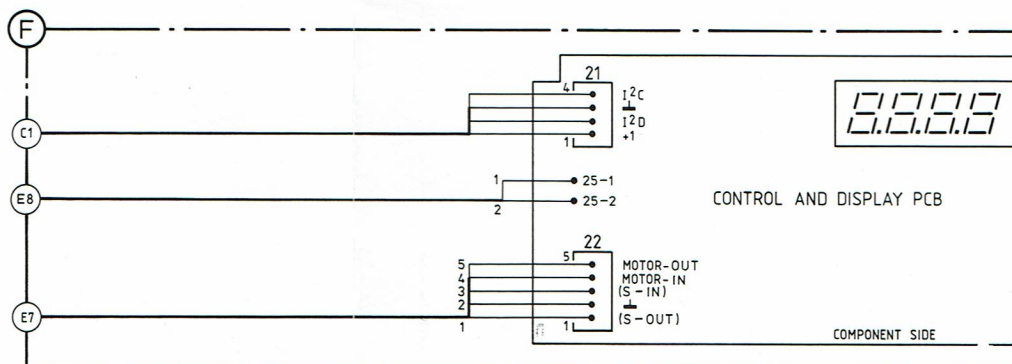
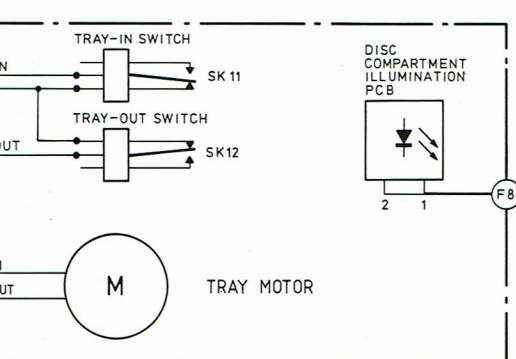
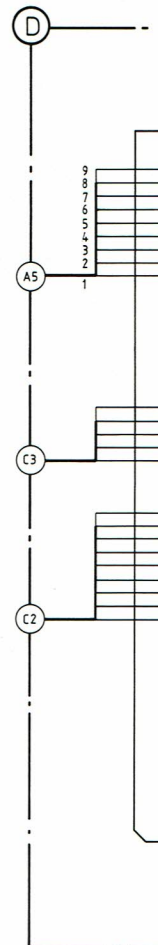
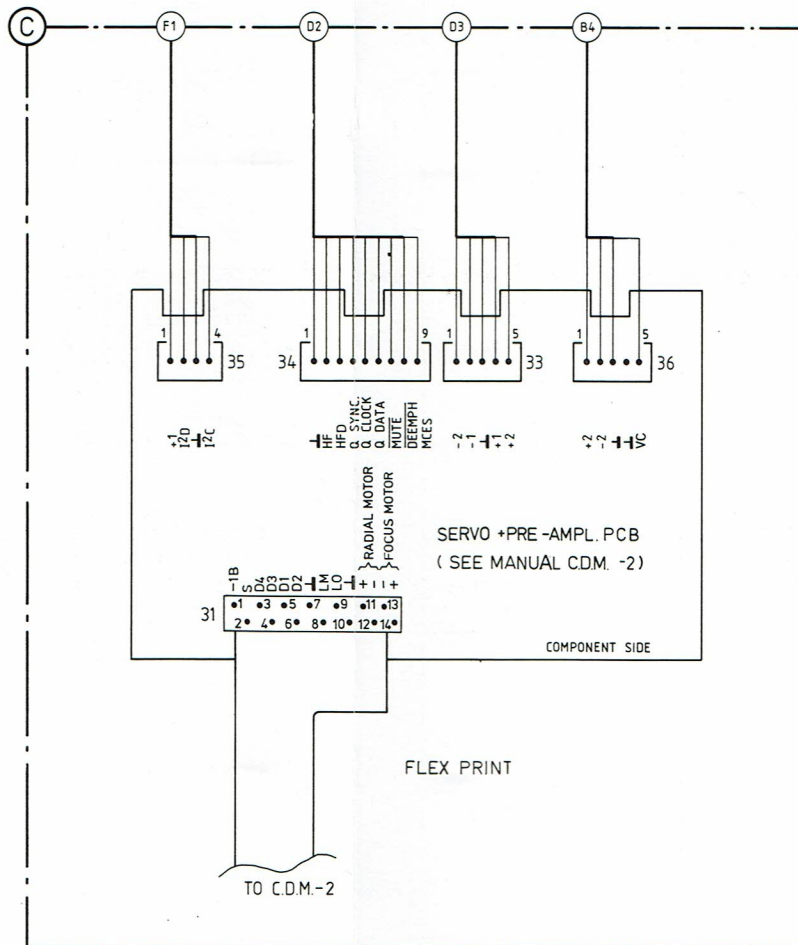
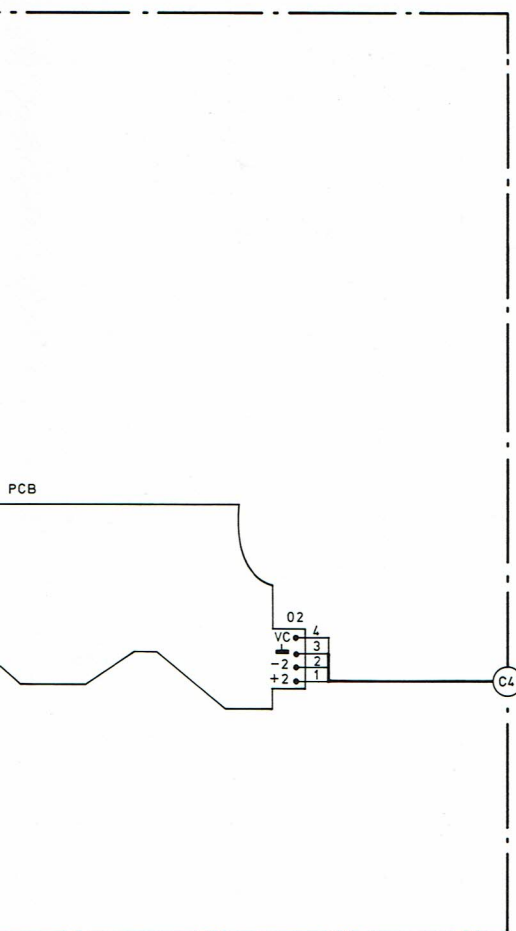
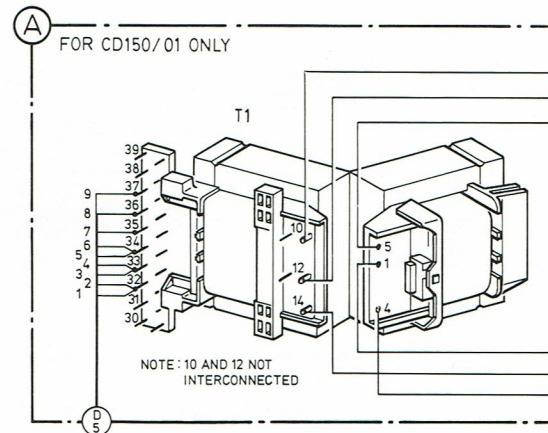
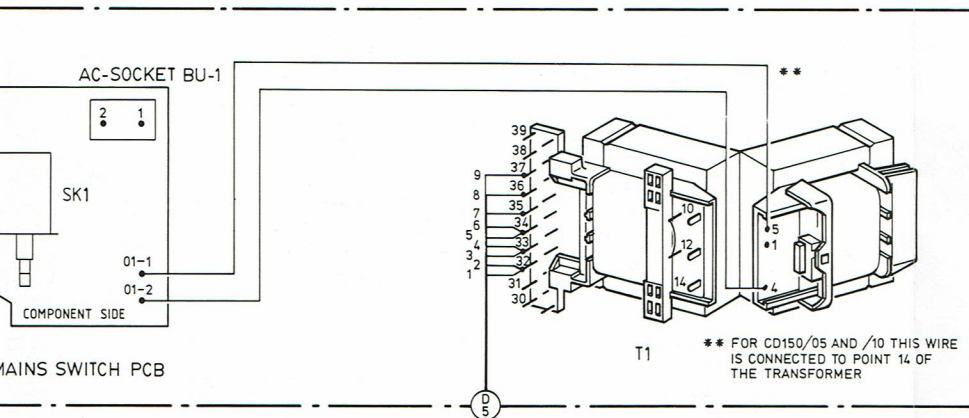


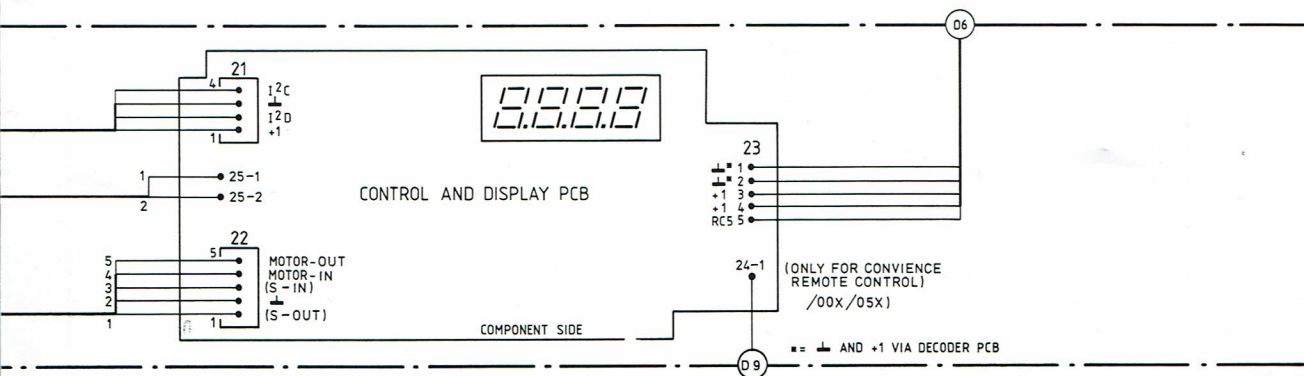
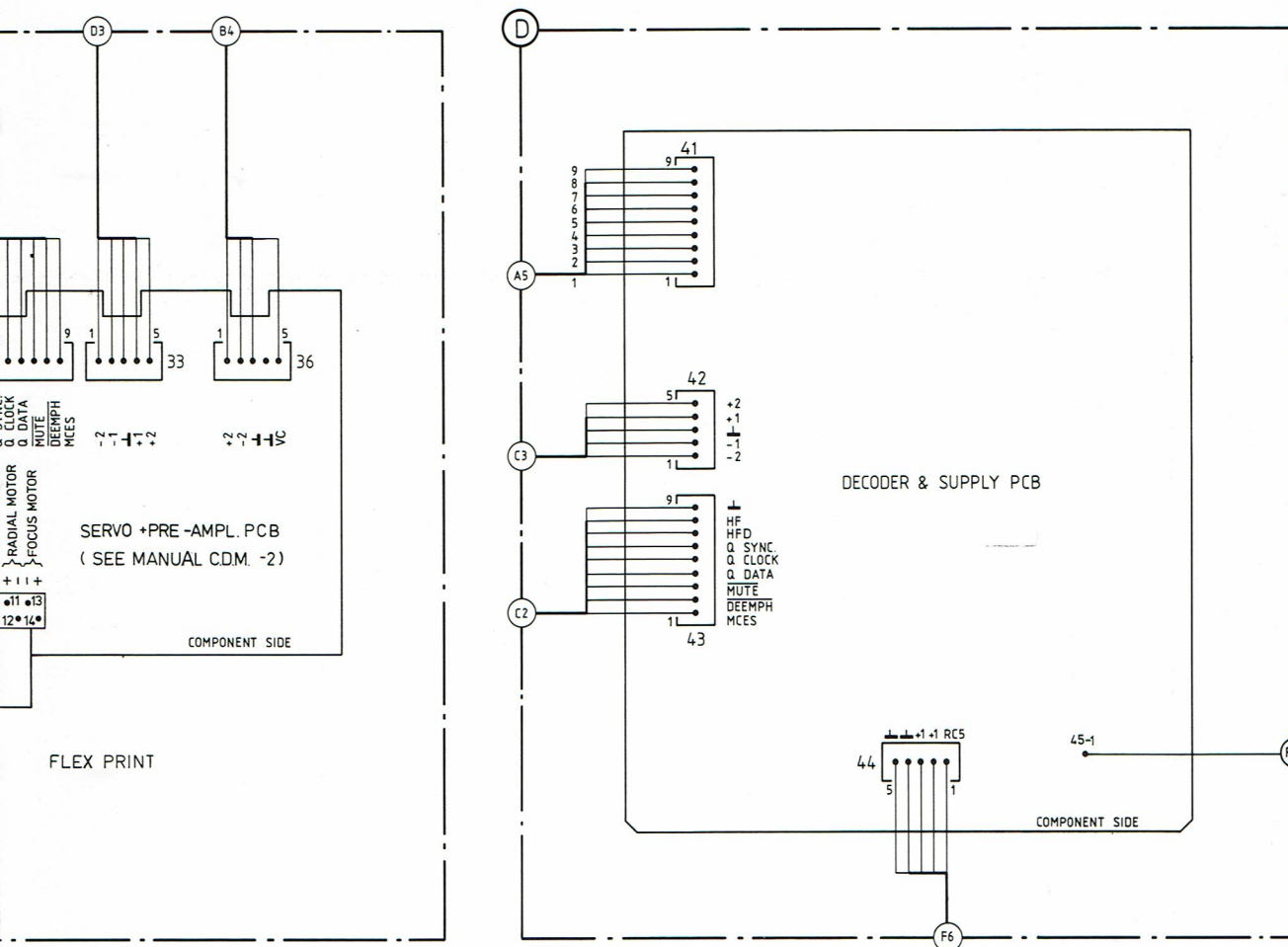
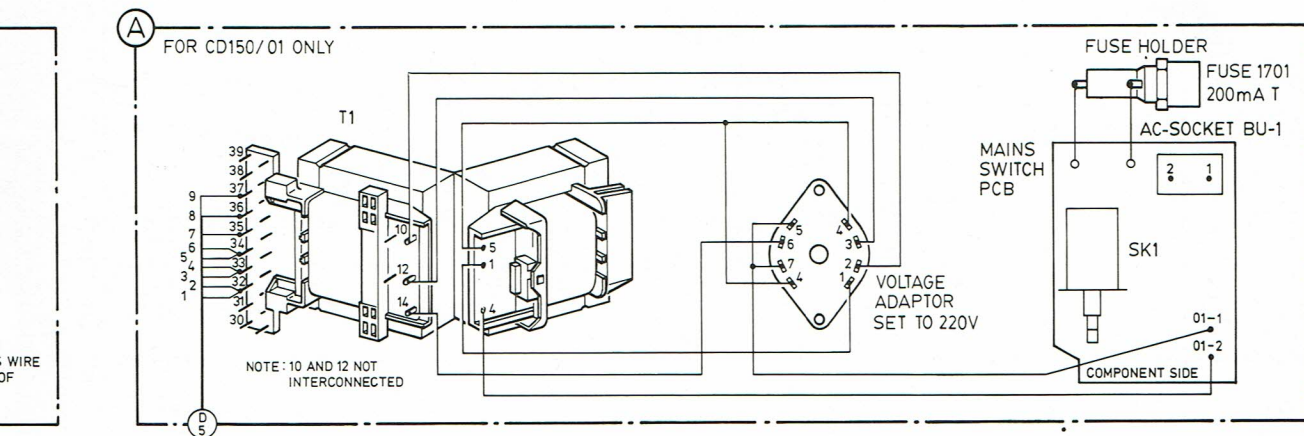
		
SK1	MAINS SWITCH	4822 276 11309
		
2701	3,3 nF-400V	4822 122 40327
		
1701	220/240V version	4822 253 30012
	200 mA	
	110/127V version	4822 253 30016
	400 mA	
Miscellaneous		
Fuse holder		4822 492 60063
BU-1 mains inlet		4822 265 20262

 Chips 50 V NP0 S1206	 Chips 0,125 W S1206	 Chips 0,125 W S1206
1 pF 5% 4822 122 32279 1,5 pF 5% 4822 122 31792 1,8 pF 5% 4822 122 32087 3,3 pF 5% 4822 122 32079 3,9 pF 5% 4822 122 32081 4,7 pF 5% 4822 122 32082 8,2 pF 5% 4822 122 32083 10 pF 5% 4822 122 31971 12 pF 5% 4822 122 32139 18 pF 5% 4822 122 31769 22 pF 10% 4822 122 31837 27 pF 5% 4822 122 31966 33 pF 5% 4822 122 31756 39 pF 5% 4822 122 31972 47 pF 5% 4822 122 31772 56 pF 5% 4822 122 31774 68 pF 5% 4822 122 32267 82 pF 10% 4822 122 31839 100 pF 5% 4822 122 31765 120 pF 5% 4822 122 31766 150 pF 5% 4822 122 31767 180 pF 2% 4822 122 31794 220 pF 5% 4822 122 31965 270 pF 5% 4822 122 32142 330 pF 10% 4822 122 31642 390 pF 5% 4822 122 31771 470 pF 5% 4822 122 31727 560 pF 5% 4822 122 31773 680 pF 5% 4822 122 31775 820 pF 5% 4822 122 31974 1 nF 10% 5322 122 31647 1,2 nF 5% 4822 122 31807 1,5 nF 10% 4822 122 31781 2,2 nF 10% 4822 122 31644 2,7 nF 10% 4822 122 31783 3,3 nF 10% 4822 122 31969 4,7 nF 10% 4822 122 31784 5,6 nF 10% 4822 122 31916 6,8 nF 10% 4822 122 31976 10 nF 10% 4822 122 31728 12 nF 10% 5322 122 31648 15 nF 10% 4822 122 31782 18 nF 10% 4822 122 31759 22 nF 10% 4822 122 31797 33 nF 10% 4822 122 31981 100 nF 20% 4822 122 31947	8,2 E 10% 4822 111 90397 9,1 E 10% 4822 111 90398 10 E 5% 5322 111 90095 11 E 5% 4822 111 90338 12 E 5% 4822 111 90551 13 E 5% 4822 111 90343 15 E 5% 4822 111 90344 16 E 5% 4822 111 90347 18 E 5% 5322 111 90139 20 E 5% 4822 111 90352 22 E 5% 4822 111 90186 27 E 5% 4822 116 60186 30 E 5% 4822 111 90356 33 E 5% 4822 111 90357 36 E 5% 4822 111 90359 39 E 5% 4822 111 90361 43 E 5% 5322 116 90125 47 E 5% 4822 111 90217 51 E 5% 4822 111 90365 56 E 5% 4822 116 60187 62 E 5% 4822 111 90367 68 E 5% 4822 111 90203 75 E 5% 4822 111 90371 82 E 5% 4822 116 60158 91 E 5% 4822 111 90375 100 E 5% 5322 111 90091 110 E 5% 4822 111 90335 120 E 5% 4822 111 90339 130 E 5% 4822 116 60164 150 E 5% 5322 111 90098 160 E 5% 4822 111 90345 180 E 5% 5322 111 90242 200 E 5% 4822 111 90348 220 E 5% 4822 111 90178 240 E 5% 4822 111 90459 270 E 5% 4822 111 90154 300 E 5% 4822 111 90156 330 E 5% 5322 111 90106 360 E 1% 4822 111 90288 390 E 5% 5322 111 90138 430 E 2% 4822 111 90362 470 E 5% 5322 111 90109 510 E 5% 4822 111 90245 560 E 5% 5322 111 90113 620 E 5% 4822 111 90366 680 E 5% 4822 111 90162 750 E 5% 4822 111 90438 820 E 5% 4822 111 90171 910 E 5% 4822 111 90372 1 k 5% 5322 111 90092 1,1 k 5% 4822 111 90294 1,2 k 5% 5322 111 90096 1,3 k 5% 4822 111 90244 1,5 k 5% 4822 111 90151 1,6 k 5% 5322 111 90265 1,8 k 5% 5322 111 90101 2 k 5% 4822 111 90165 2,2 k 2% 4822 111 90248 2,4 k 5% 4822 111 90289 2,7 k 2% 4822 111 90569 3 k 5% 4822 111 90198 3,3 k 5% 4822 111 90157 3,6 k 5% 5322 111 90107 3,9 k 2% 4822 111 90571 4,3 k 5% 4822 111 90167 4,7 k 5% 5322 111 90111 5,1 k 5% 5322 111 90268 5,6 k 2% 4822 111 90572 6,2 k 2% 4822 111 90545 6,8 k 2% 4822 111 90544 7,5 k 5% 4822 111 90276 8,2 k 5% 5322 111 90118	9,1 k 5% 4822 111 90373 10 k 2% 4822 111 90249 11 k 5% 4822 111 90337 12 k 2% 4822 111 90253 13 k 2% 4822 111 90509 15 k 5% 4822 111 90196 16 k 5% 4822 111 90346 18 k 5% 4822 111 90238 20 k 5% 4822 111 90349 22 k 2% 4822 111 90251 24 k 2% 4822 111 90512 27 k 2% 4822 111 90542 30 k 2% 4822 111 90216 33 k 5% 5322 111 90267 36 k 2% 4822 111 90514 39 k 5% 5322 111 90108 43 k 5% 4822 111 90363 47 k 2% 4822 111 90543 51 k 5% 5322 111 90274 56 k 2% 4822 111 90573 62 k 5% 5322 111 90275 68 k 5% 4822 111 90202 75 k 2% 4822 111 90574 82 k 2% 4822 111 90575 91 k 5% 5322 111 90277 100 k 2% 4822 111 90214 110 k 5% 5322 111 90269 120 k 2% 4822 111 90568 130 k 2% 4822 111 90511 150 k 5% 5322 111 90099 160 k 2% 5322 111 90264 180 k 2% 4822 111 90565 200 k 5% 4822 111 90351 220 k 5% 4822 111 90197 240 k 2% 4822 111 90215 270 k 5% 4822 111 90302 300 k 5% 5322 111 90266 330 k 2% 4822 111 90513 360 k 2% 4822 111 90515 390 k 5% 4822 111 90182 430 k 5% 4822 111 90168 470 k 5% 4822 111 90161 510 k 5% 4822 111 90364 560 k 5% 4822 111 90169 620 k 2% 4822 111 90213 680 k 2% 4822 111 90368 750 k 5% 4822 111 90369 820 k 5% 4822 111 90205 910 k 5% 4822 111 90374 1 M 2% 4822 111 90252 1,1 M 5% 4822 111 90408 1,2 M 10% 4822 111 90409 1,3 M 10% 4822 111 90411 1,5 M 10% 4822 111 90412 1,6 M 10% 4822 111 90413 2 M 10% 4822 111 90415 2,2 M 10% 4822 111 90185 2,4 M 10% 4822 111 90416 2,7 M 10% 4822 111 90417 3 M 10% 4822 111 90418 3,3 M 10% 4822 111 90191 3,6 M 10% 4822 111 90419 3,9 M 10% 4822 111 90421 4,3 M 10% 4822 111 90422 4,7 M 10% 4822 111 90423 5,1 M 10% 4822 111 90424 5,6 M 10% 4822 111 90508 6,2 M 10% 4822 111 90426 6,8 M 10% 4822 111 90328 7,5 M 10% 4822 111 90427 8,2 M 10% 4822 111 90329 9,1 M 10% 4822 111 90428
 Chips 0,125 W S1206		
0 E jumper 4822 111 90163 1 E 10% 4822 111 90184 1,1 E 10% 4822 111 90377 1,2 E 10% 4822 111 90378 1,3 E 10% 4822 111 90379 1,5 E 10% 4822 111 90381 1,6 E 10% 4822 111 90382 1,8 E 10% 4822 111 90383 2 E 10% 4822 111 90384 2,2 E 10% 4822 111 90507 2,4 E 10% 4822 111 90385 2,7 E 10% 4822 111 90386 3 E 10% 4822 111 90387 3,3 E 10% 4822 111 90447 3,6 E 10% 4822 111 90389 3,9 E 10% 4822 111 90391 4,3 E 10% 4822 111 90392 4,7 E 5% 5322 111 90376 5,1 E 10% 4822 111 90393 5,6 E 10% 4822 111 90394 6,2 E 10% 4822 111 90395 6,8 E 5% 4822 111 90254 7,5 E 10% 4822 111 90396		

WIRING DIAGRAM







37523 E13

SYMBOL	DESCRIPTION
	Capacitor, general
	Electrolytic capacitor (+ and - may be omitted)
	Bipolar electrolytic capacitor (+ may be omitted)
	Resistor, general
	N.T.C. resistor
	P.T.C. resistor
	Voltage divider with preset adjustment
	Chip jumper
	Pin contact
	Bus contact
	Coil, self-induction
	Transformer with electrically poor conducting core and adjustable pre-magnetization
	Diode
	Zener diode
	Stabistor
	Double variable capacity diode (in one envelope)
	Photo conductive diode
	L.E.D.

SYMBOL	DESCRIPTION
	Transistor (N.P.N.)
	Transistor (P.N.P.)
	Direct current (DC)
	Alternating current (AC)
	Earth (functional)
	Frame or chassis connection
	Direction in which AC voltages are passed on (optional present)
	Interrupted line
	Not-connected crossing lines
	Connected lines
	Cable tree with lead-outs
	Changer, general (arrow is optional)
	Voltage Controlled Oscillator
	Band-pass filter
	Phase changing network
	Delay element
	Amplifier, general

SYMBOL	DESCRIPTION
	Operational amplifier
	Differential amplifier
	Splitter
	Operational amplifier with open output
	Exclusive OR gate
	True/complement amplifier with high input
	Flip Flop
	AND gate
	OR gate
	Inverter with high input

	0.2W (CR 16)	$\leq 220k\Omega$ $> 270k\Omega$	5% 10%
	0.33W (CR 25)	$\leq 1 M\Omega$ $> 1 M\Omega$	5% 10%
	0.33W (SFR25)		5%
	0.25W (VR 25)	$\leq 10M\Omega$ $> 10M\Omega$	5% 10%
	0.5W (CR 37)	$\leq 1 M\Omega$ $> 1 M\Omega$	5% 10%
	0.67W (CR 52)		5%
	1.15W (CR 68)		5%
	Ceramic plate		
	Polyester flat foil		
	Polyester mepolesco		
	Mylar (Polyester flat foil small sized)		
	Micropoco		
	Tubular ceramic (body colour pink or yellow/green)		
	Miniature single elco		
	Subminiature tantalum		

*
a = 2.5 V
b = 4 V
c = 6.3 V
d = 10 V
e = 16 V
f = 25 V
g = 40 V
h = 63 V
i = 100 V
j = 125 V
l = 125 V
m = 150 V
n = 160 V
q = 200 V
r = 250 V
s = 300 V
t = 350 V
u = 400 V
v = 500 V
w = 630 V
x = 1000 V
A = 1.6 V
B = 6 V
C = 12 V
D = 15 V
E = 20 V
F = 35 V
G = 50 V
H = 75 V
I = 80 V