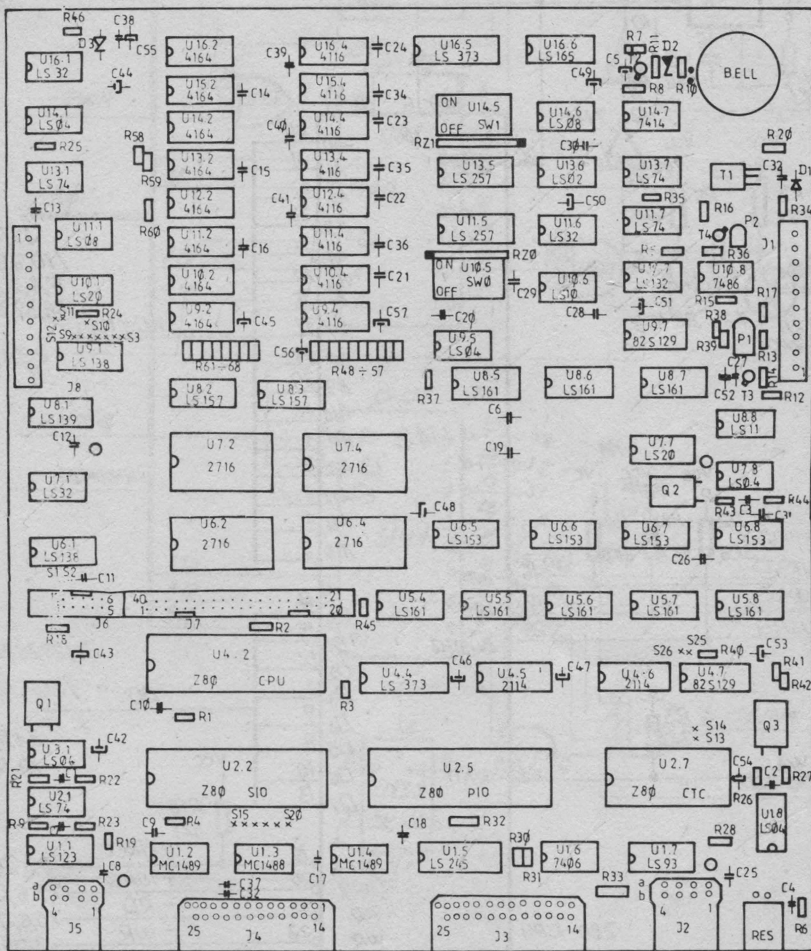
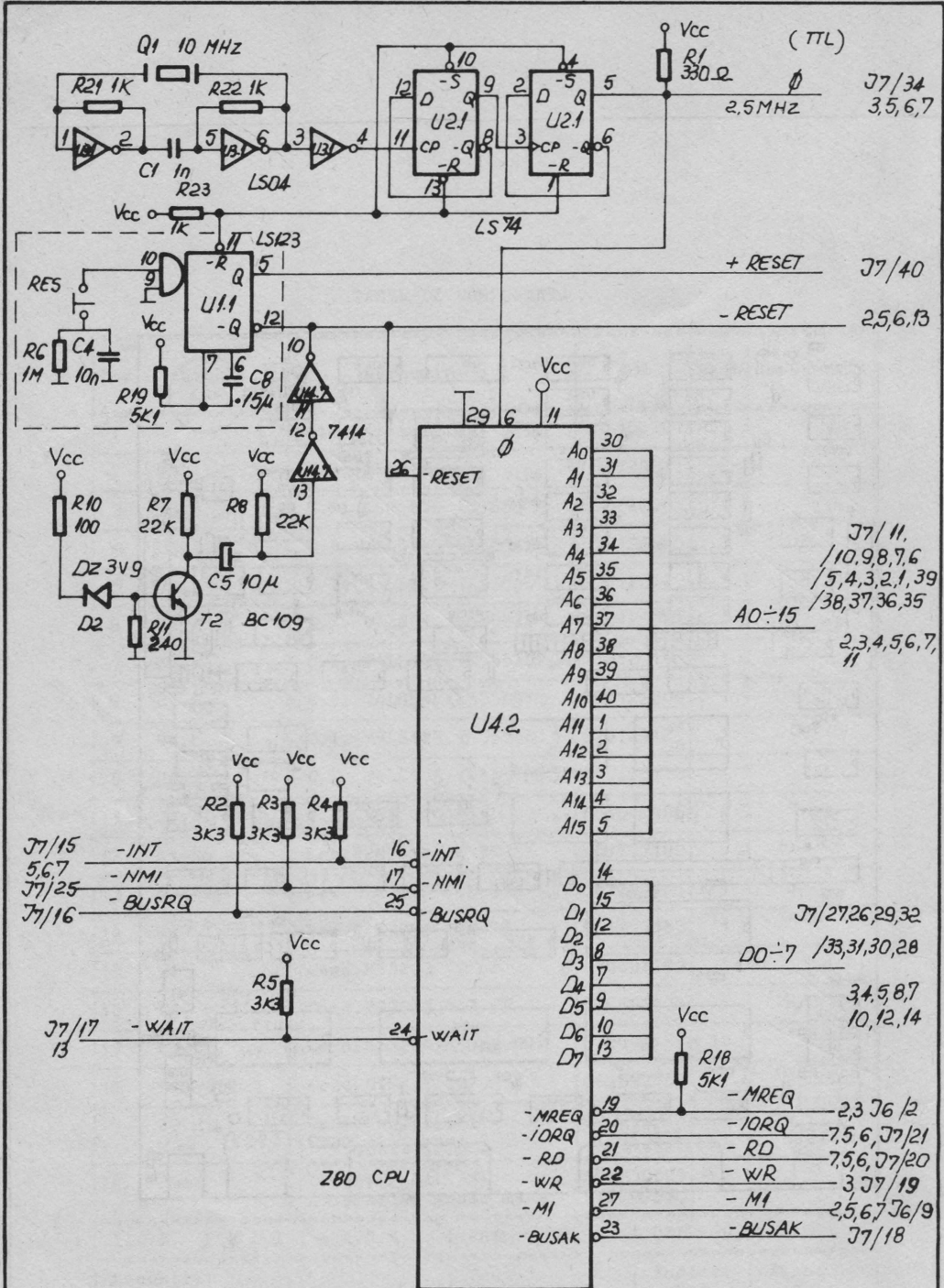
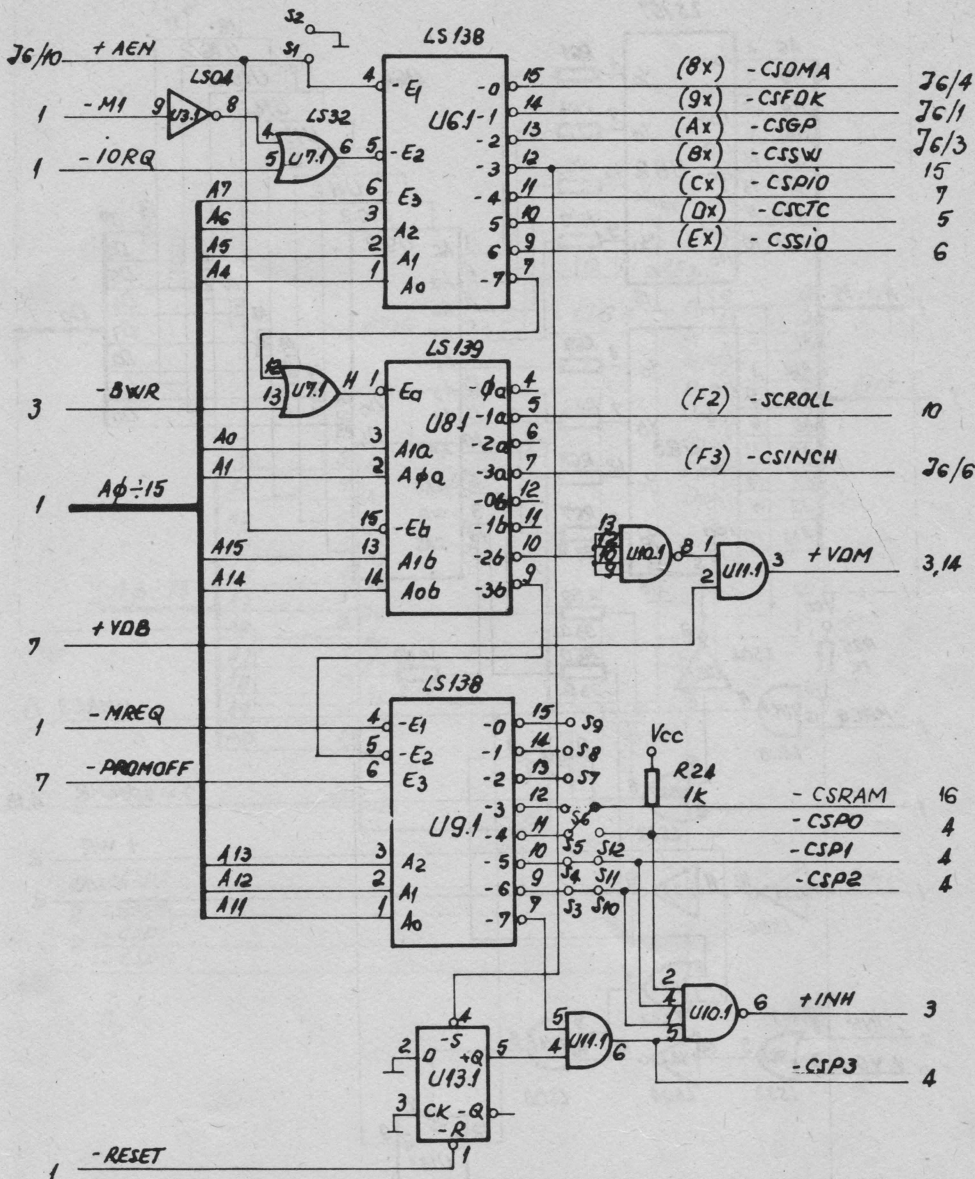




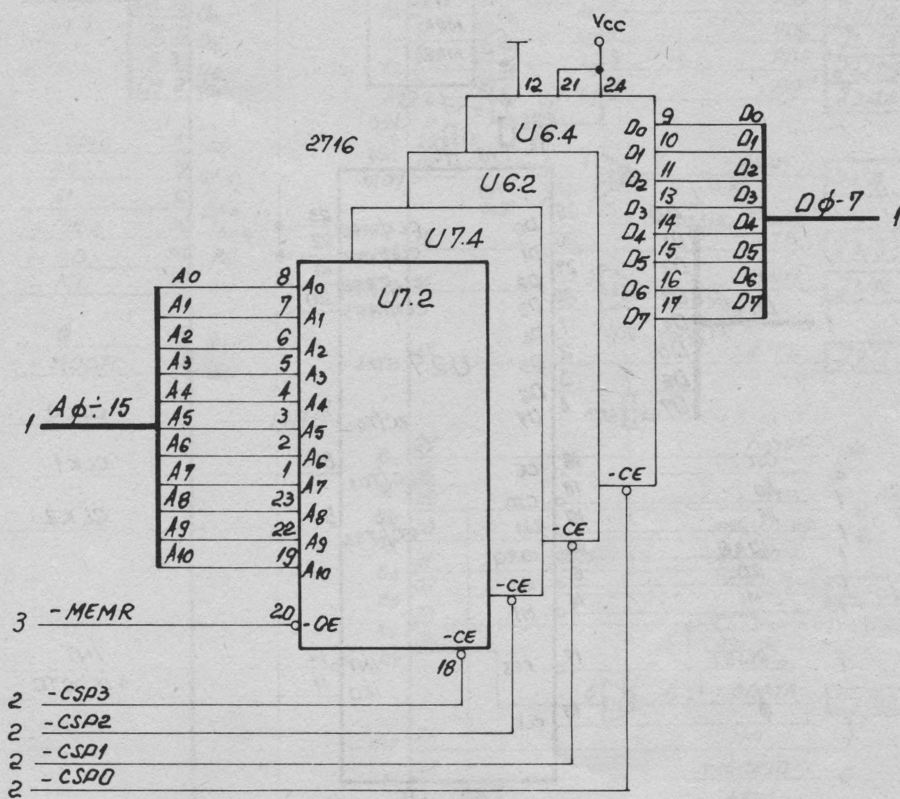
Rev		MBZ LAYOUT	URC 85.01
			Sheet1 of 1

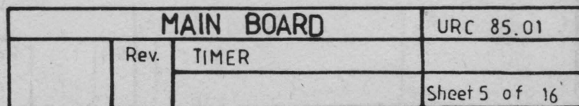


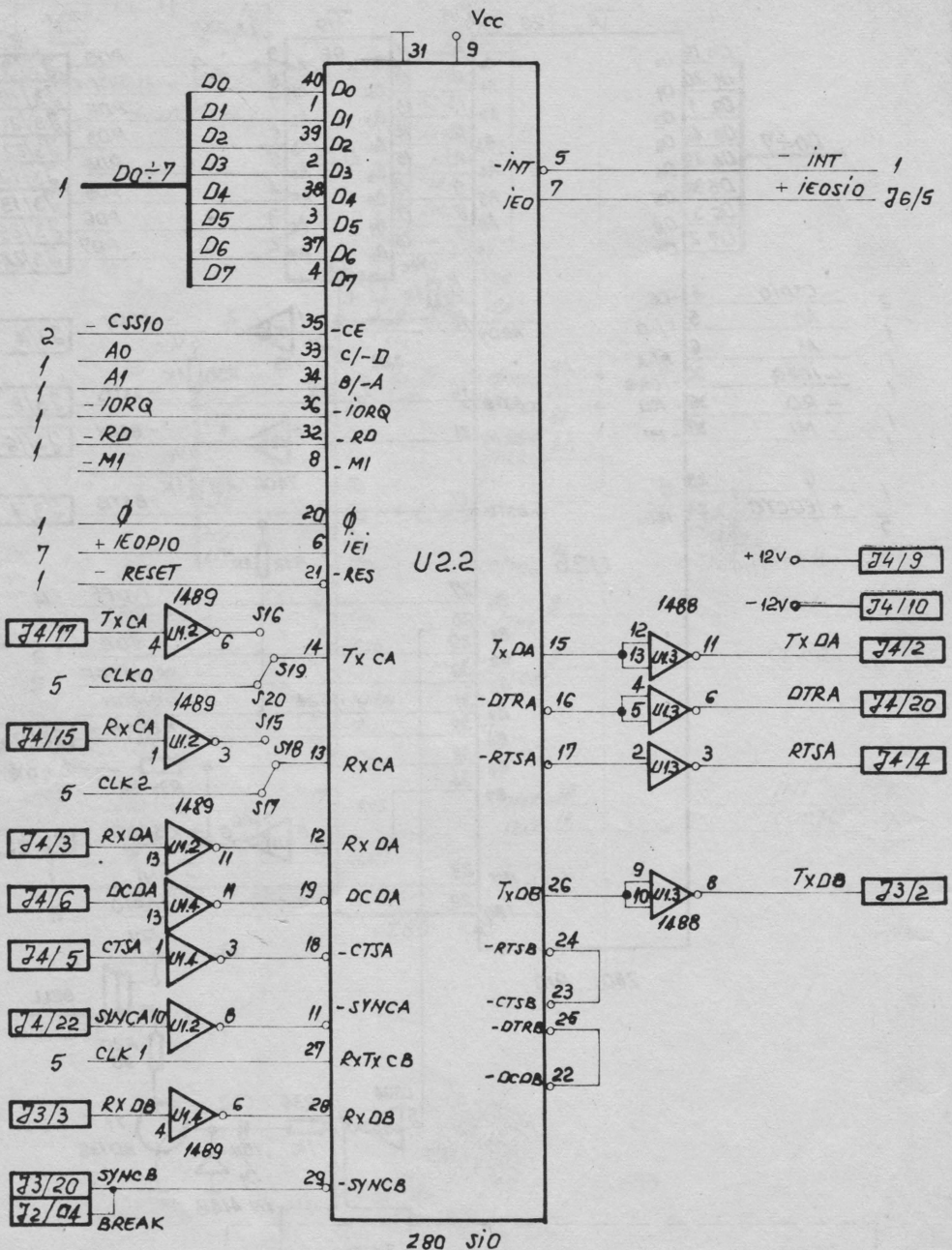
MAIN BOARD		URC 85.01
Rev.	CPU	
		Sheet 1 of 16



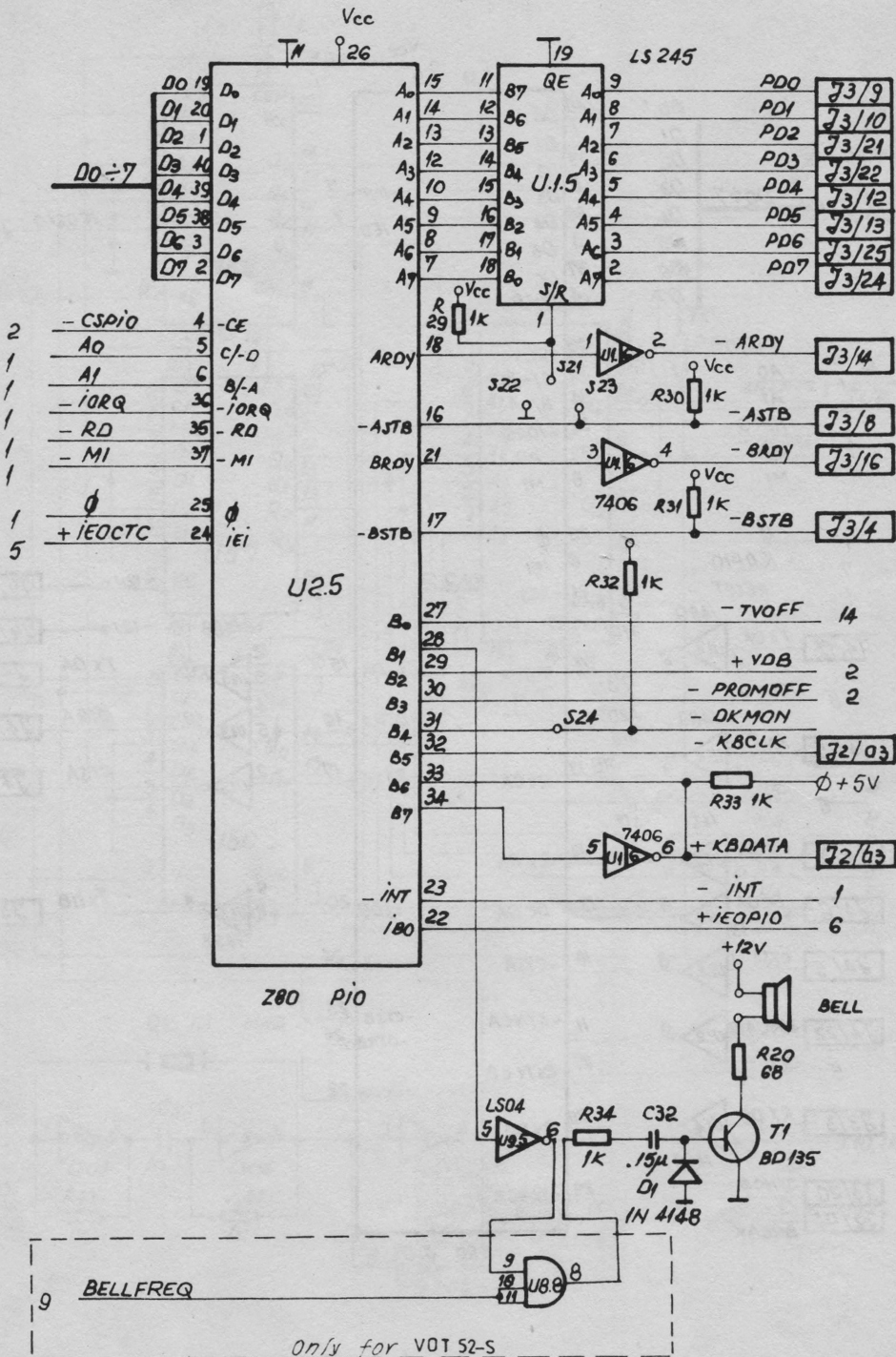
MAIN BOARD		URC 85.01
Rev.	I/O DECOODER	
		Sheet 2 of 16







MAIN BOARD		URC 85.01
Rev.	SERIAL I/O	
		Sheet 6 of 16

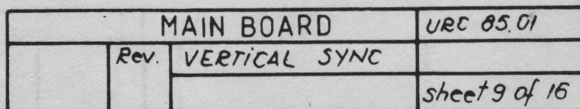


MAIN BOARD

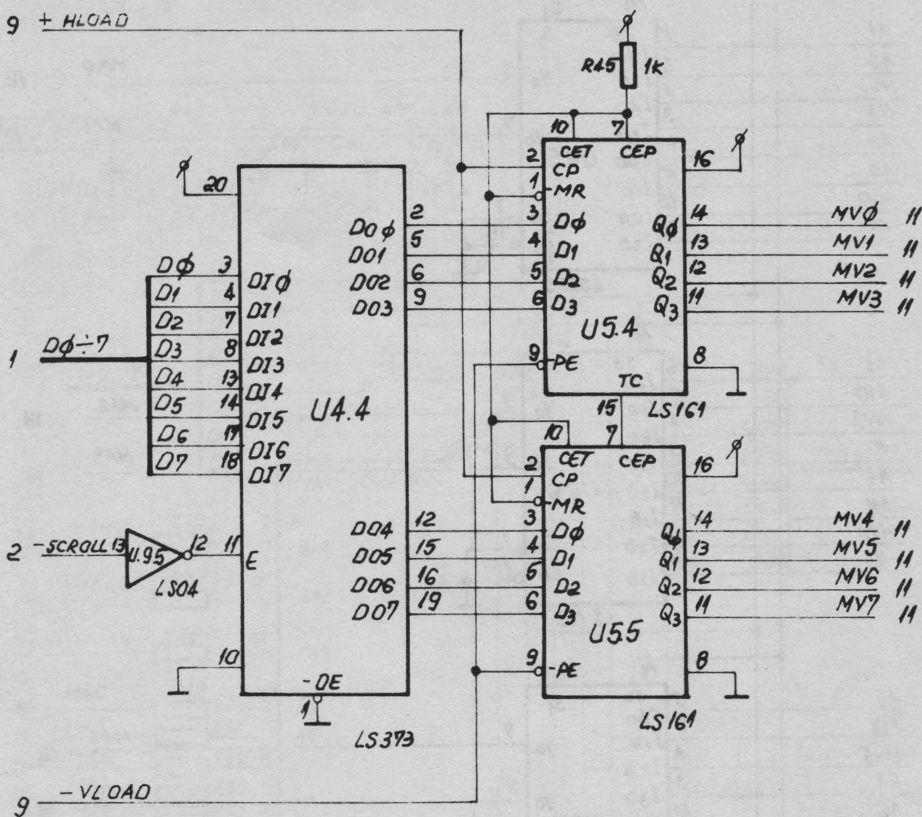
URC 85.01

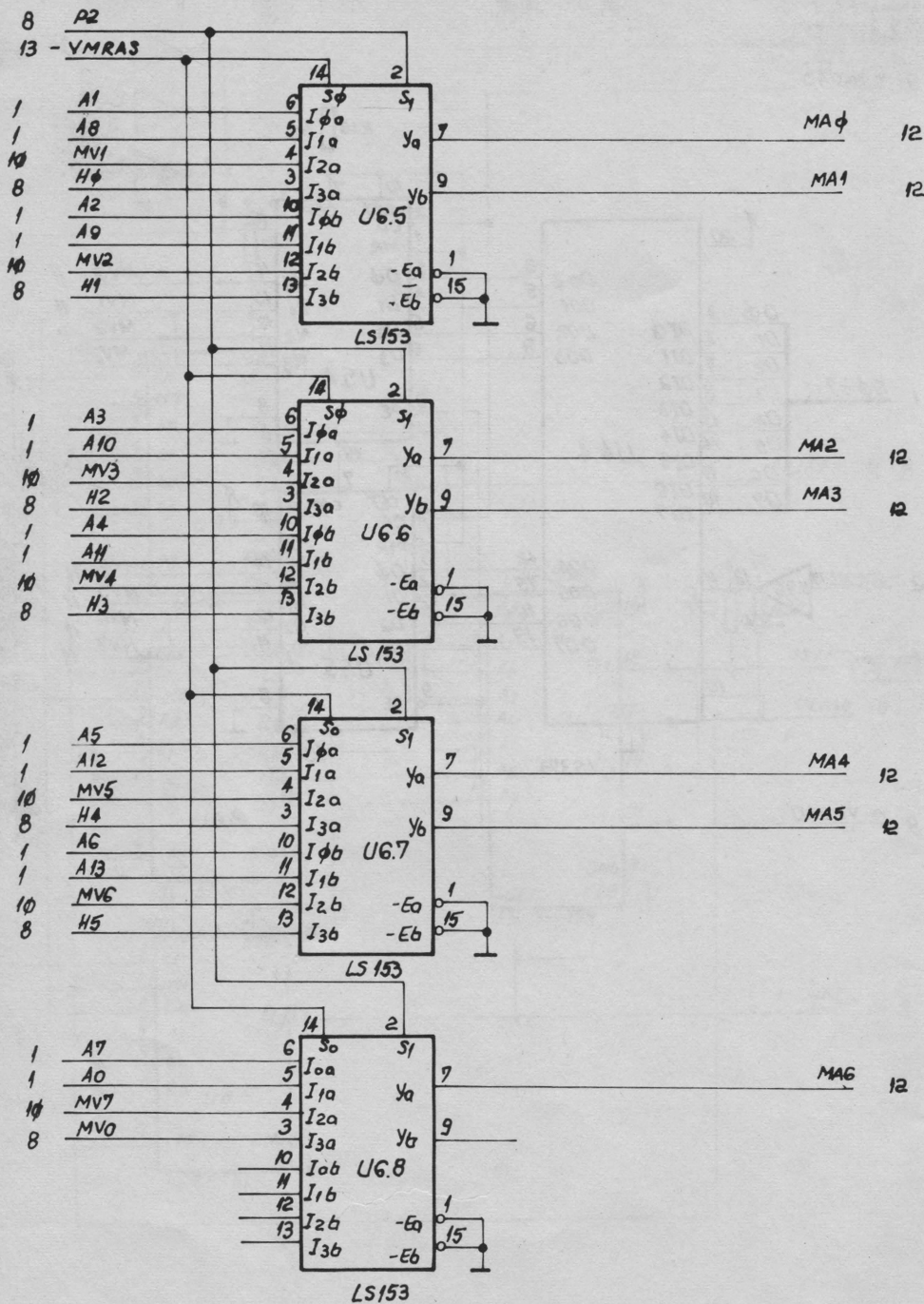
Rev. PARRALEL I/O

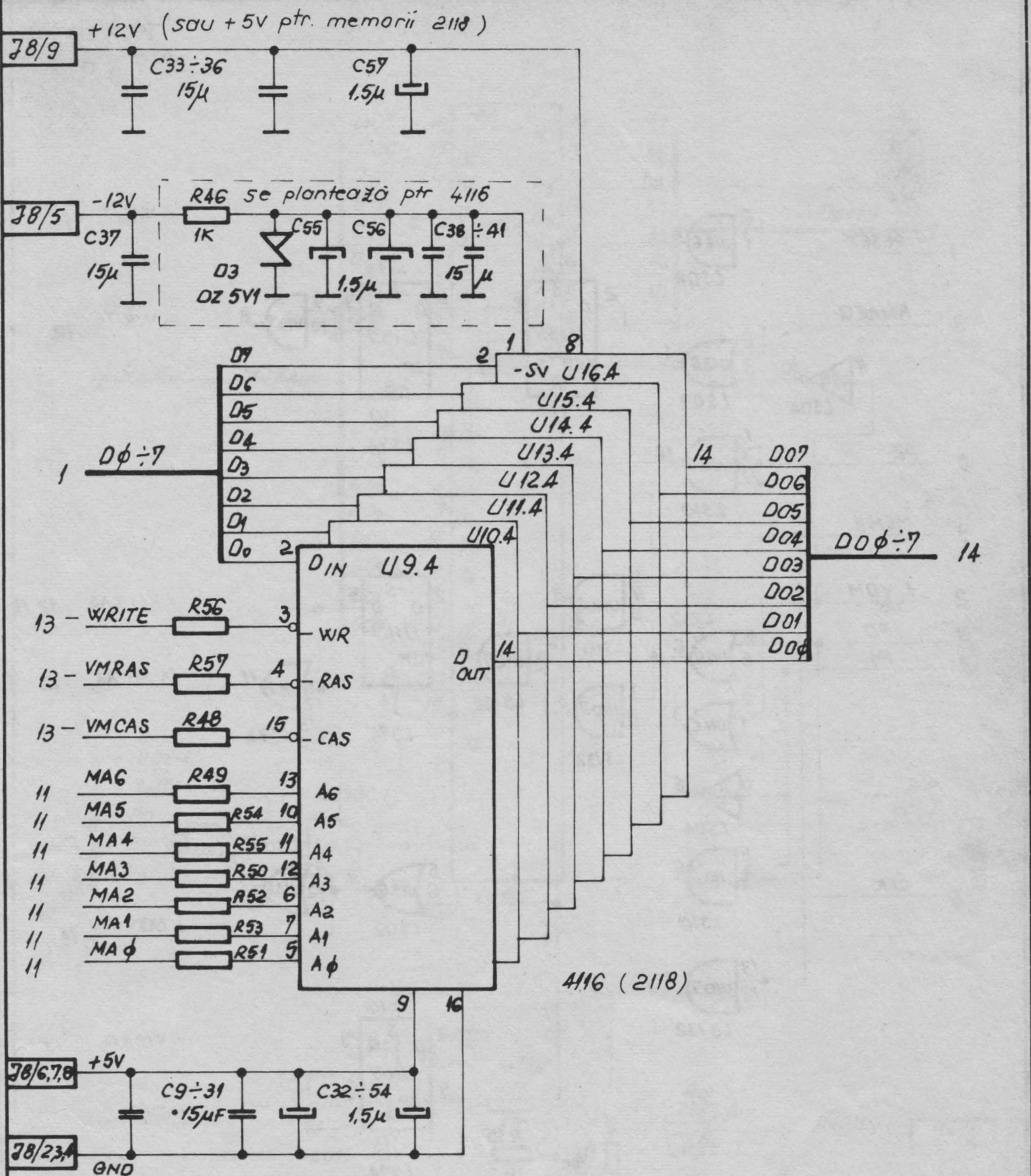
Sheet 7 of 16



9 + HLOAD







13 +LD
13 -VMRD

12 $D0 \div 7$

8 +CLK

8 +HDEN

9 +VDEN

8 P0

8 P1

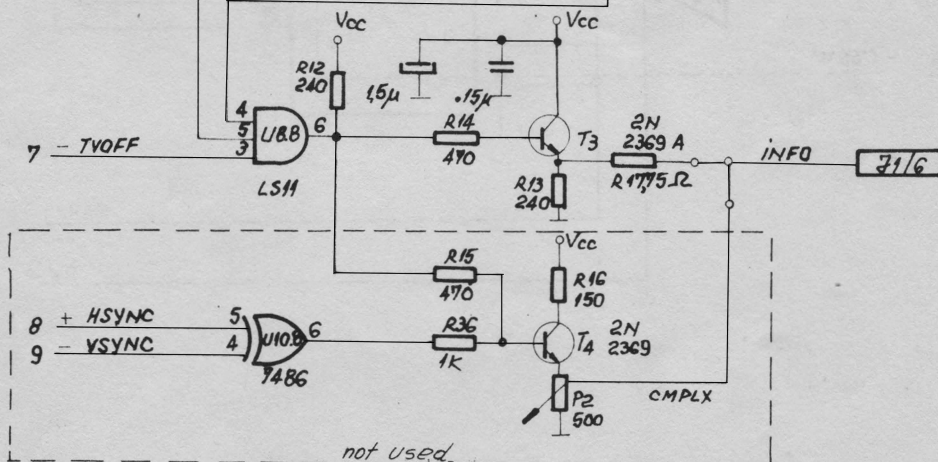
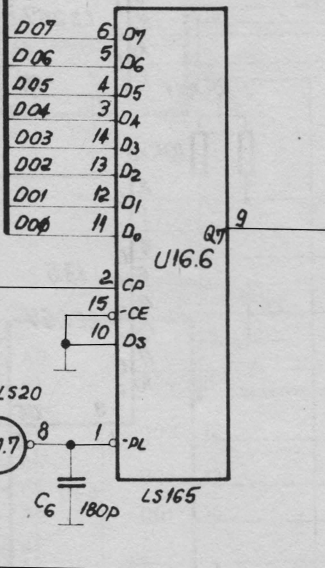
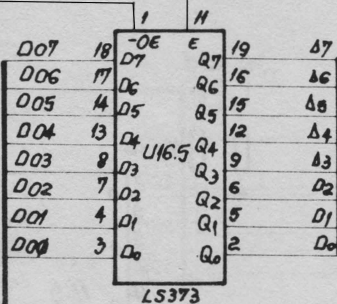
8 P2

8 -CLK

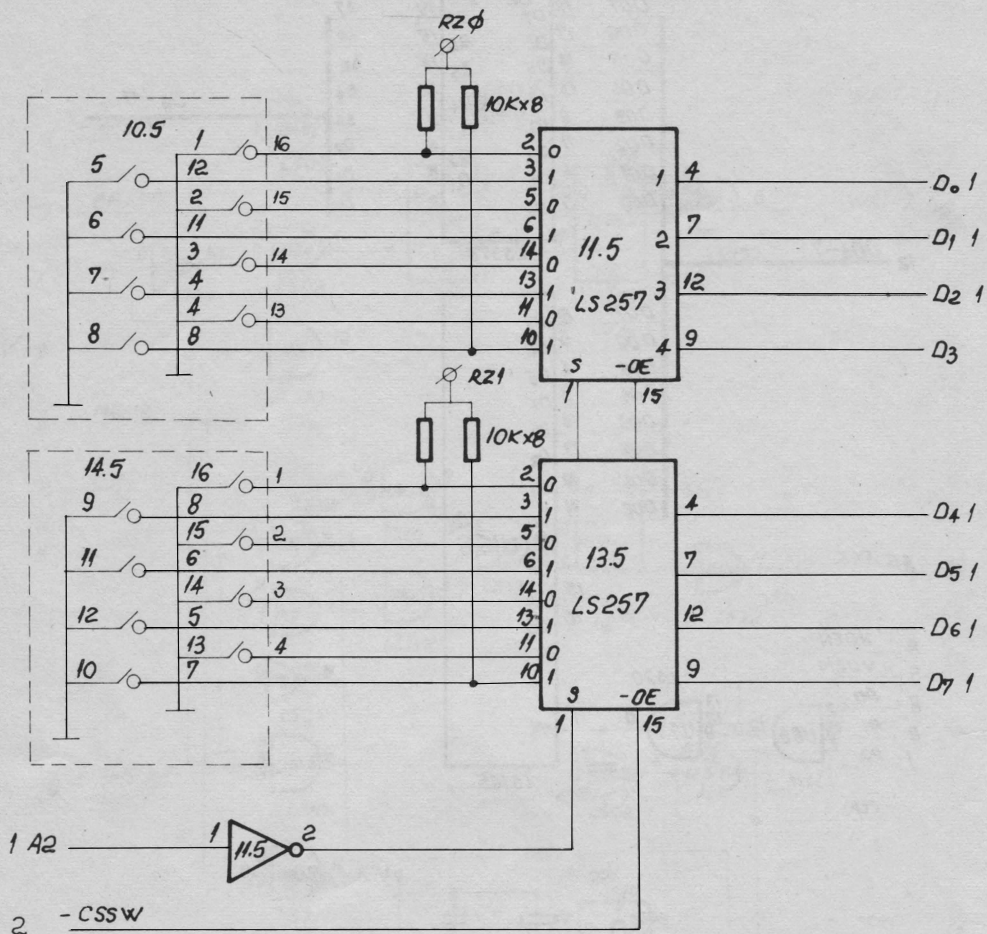
7 -TVOFF

8 +HSYNC

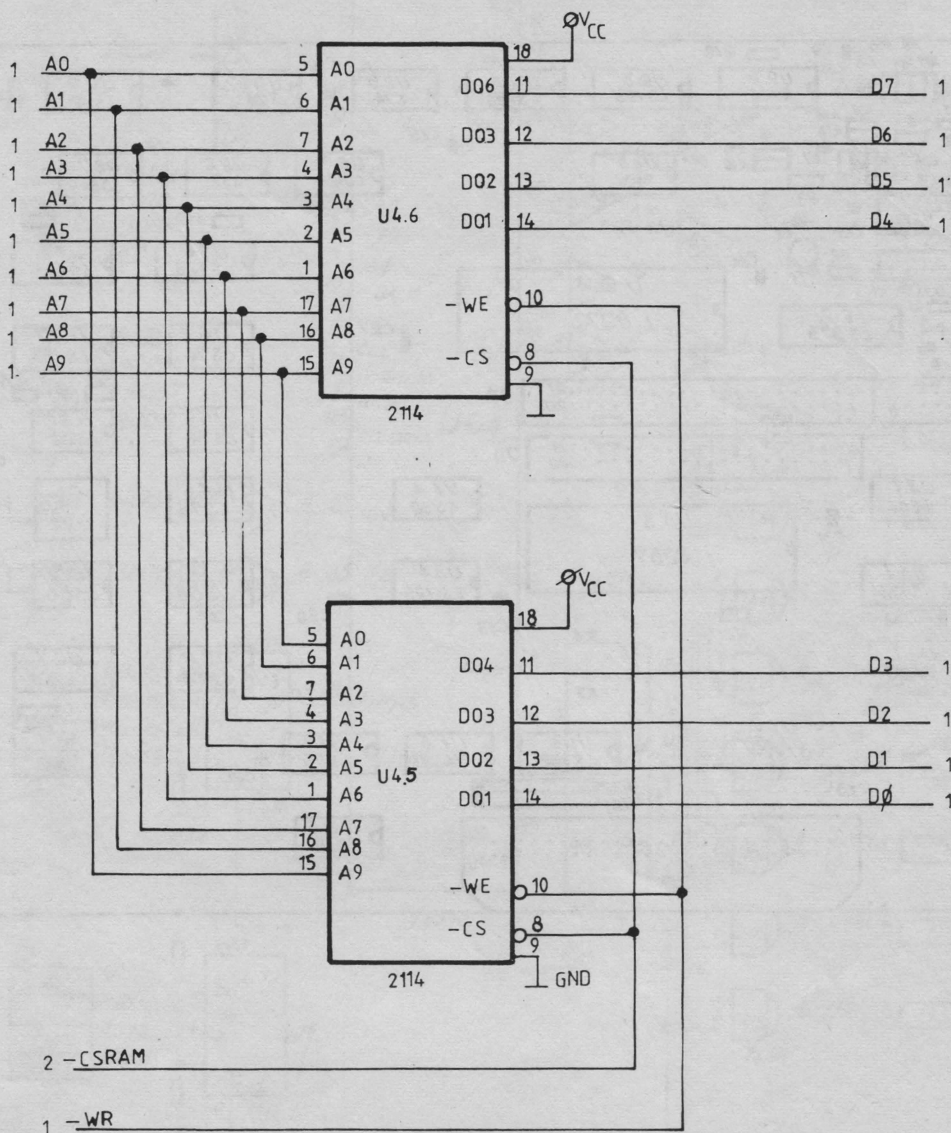
9 -VSYNC

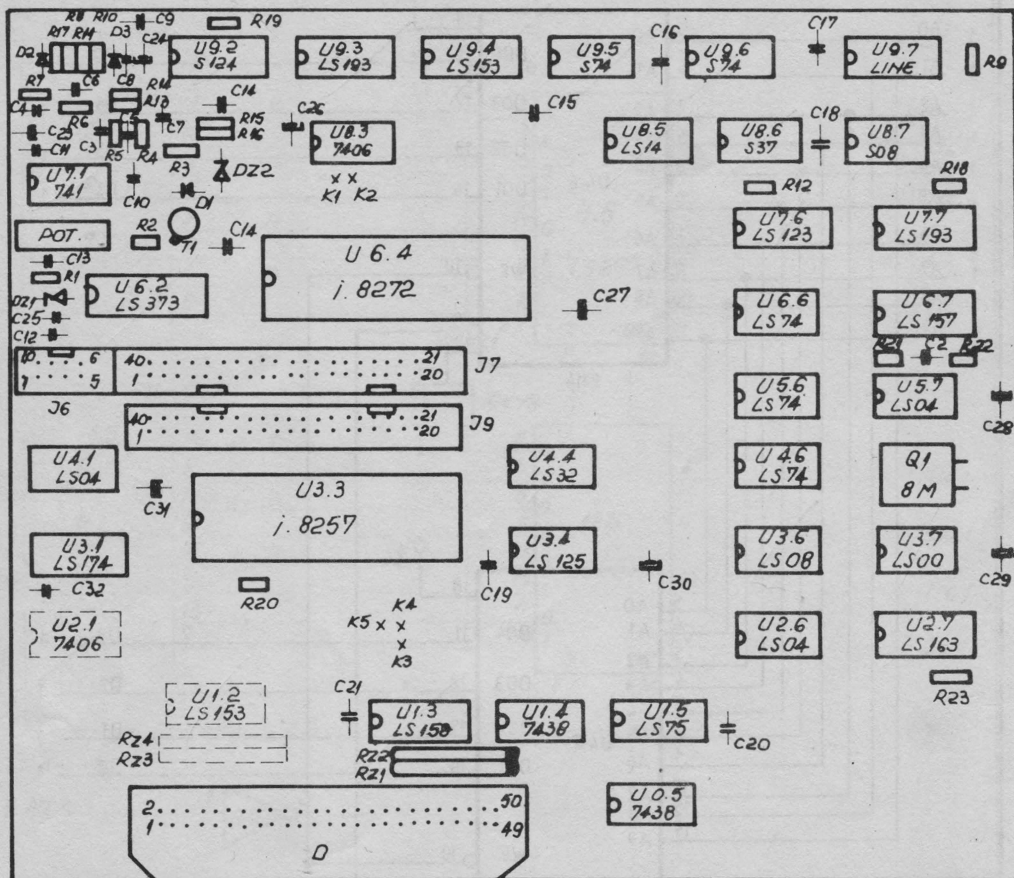


		URC 85.01
Rev.	TV DRIVER	
		Sheet 14 of 16



		URC 85,01
Rev.	SWITCHES	
		Sheet 15 of 16





CUB-Z DISK CONTROLLER		URC 85-02
Rev.	DCZ LAYOUT	
		Fila 1 din 1

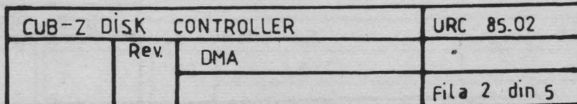


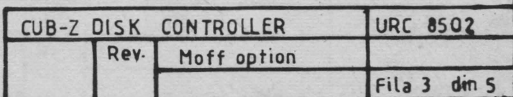
URC 85.02 .

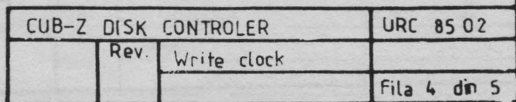
Rev.

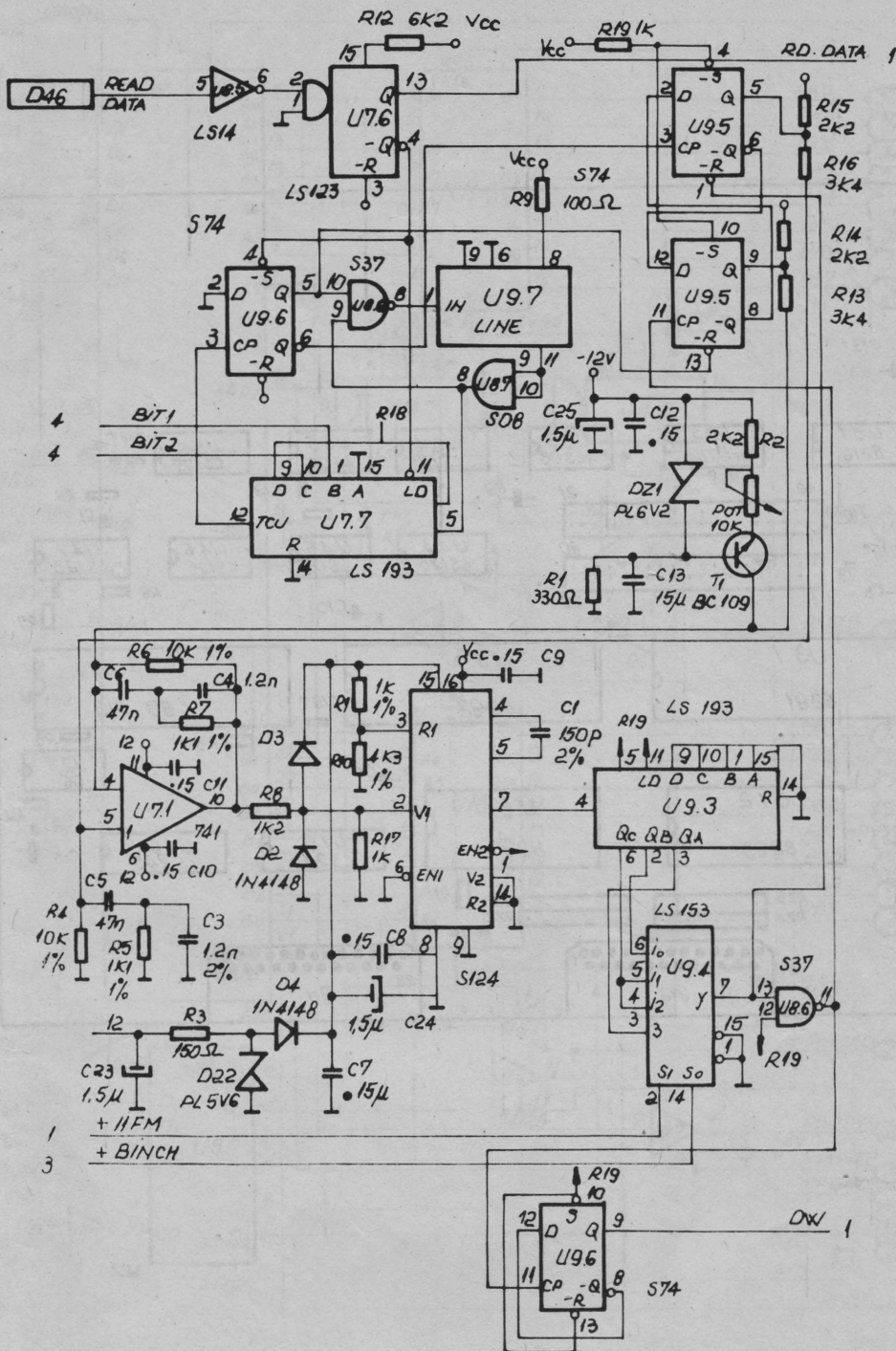
FDK CONTROLLER

Fila 1 din 5

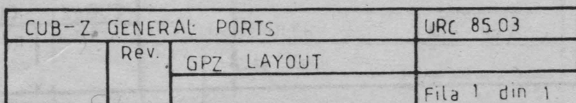


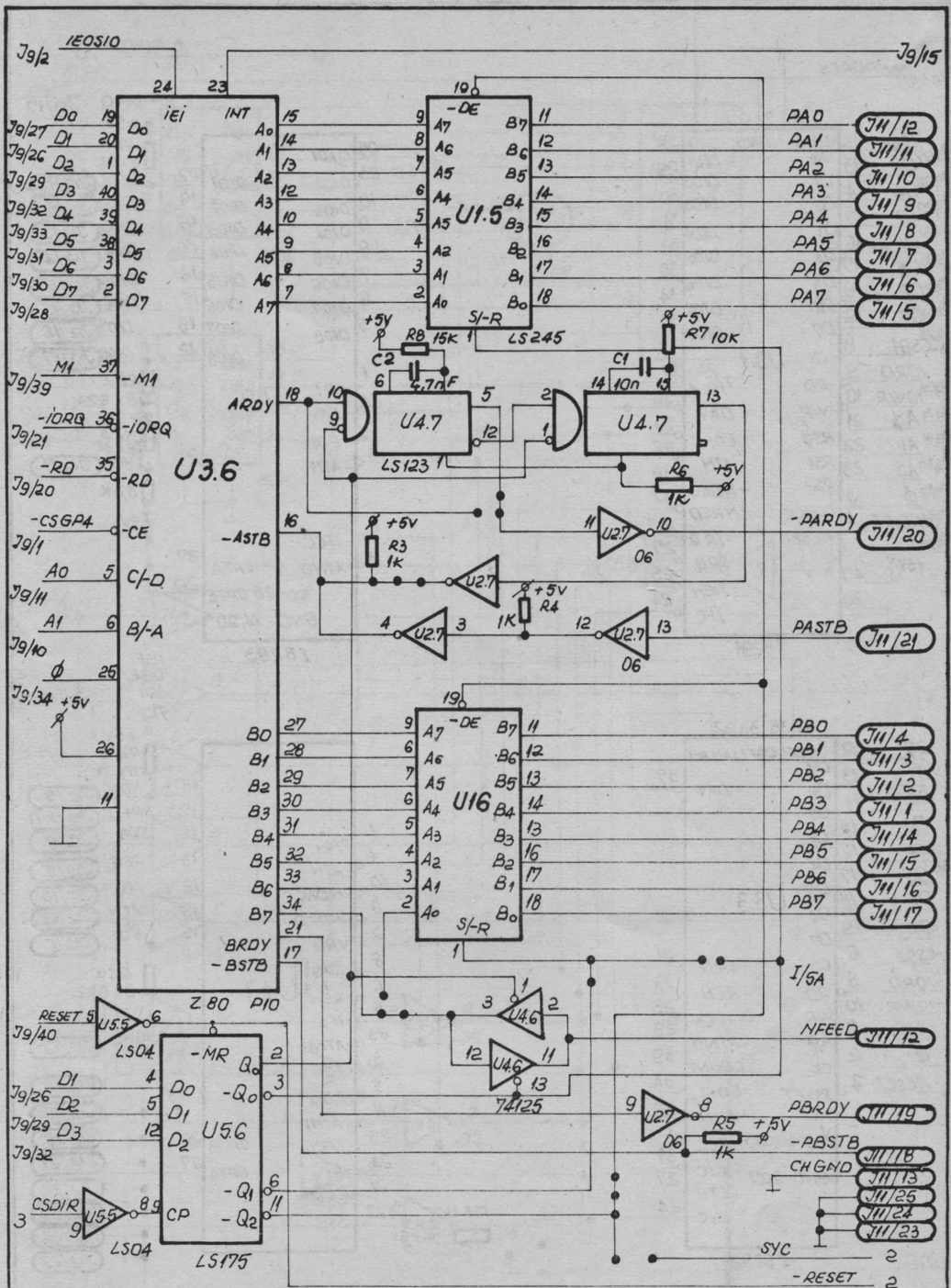




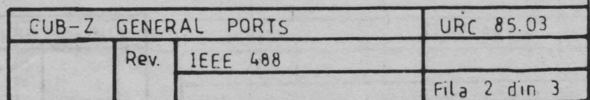


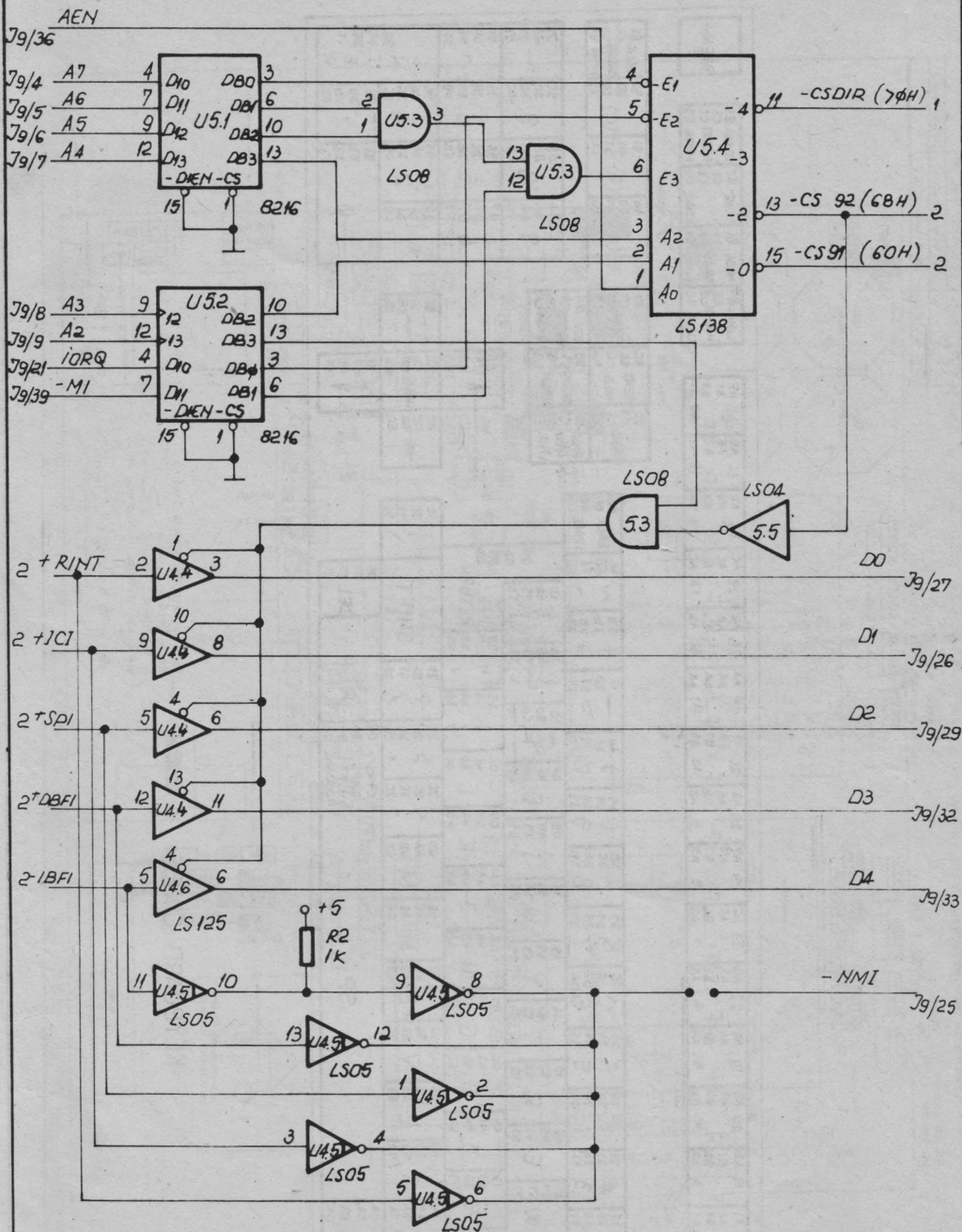
CUB-Z DISK CONTROLLER		URC 85.02
Rev.	PLL	
		Fila 5 din 5





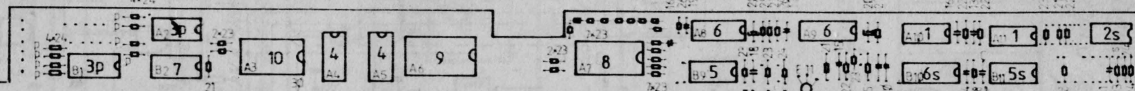
CUB-Z GENERAL PORTS		URC 85.03
Rev.	PARRALEL PORTS	
		Fila 1 din 3





CUB-Z GENERAL PORTS		URC 85.03
Rev.	I/O DECODER	
		Fila 3 din 3.

+5V
-X OSC
+K 00A7A
BREAK
GND

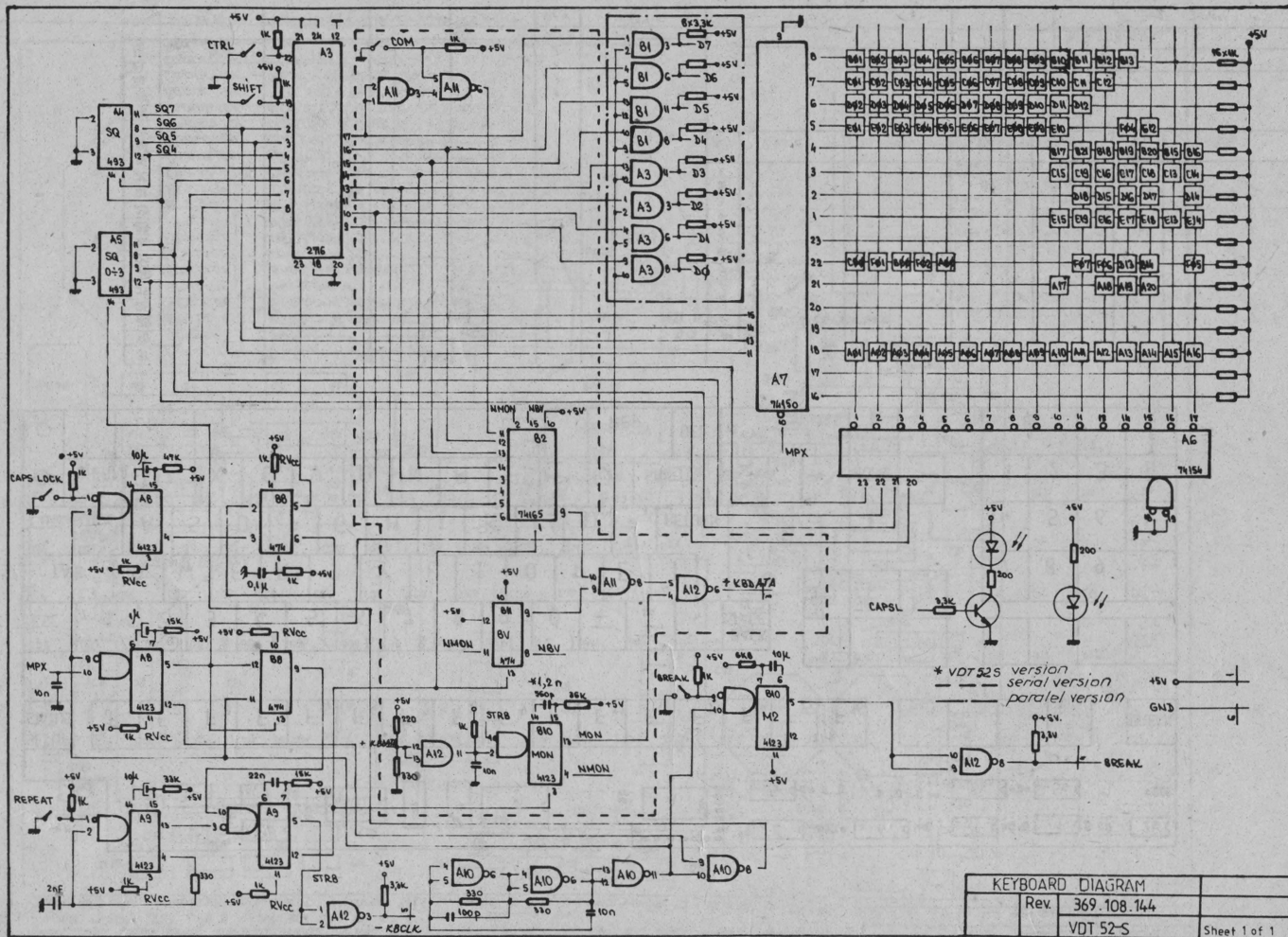


SETUP	A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	A21
STATUS	F ₁	F ₂	F ₃	F ₄	F ₅	F ₆	F ₇	F ₈	F ₉	F ₁₀	F ₁₁	F ₁₂	F ₁₃	F ₁₄	F ₁₅	F ₁₆	LINE INSERT	PAGE PAGE PAGE	LINE DELETE	PAGE DELETE	BREAK
B00	B01	B02	B03	B04	B05	B06	B07	B08	B09	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20	B21
ESC	1	2	3	4	5	6	7	8	9	0	=	+	-	BACK SPACE							
C00	C01	C02	C03	C04	C05	C06	C07	C08	C09	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21
TAB	Q	W	E	R	T	Y	U	I	O	P	[	]									
D00	D01	D02	D03	D04	D05	D06	D07	D08	D09	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20	D21
CTRL	CAPS LOCK	A	S	D	F	G	H	J	K	L	;	/	RETURN								
E00	E01	E02	E03	E04	E05	E06	E07	E08	E09	E10	E11	E12	E13	E14	E15	E16	E17	E18	E19	E20	E21
SHIFT	Z	X	C	V	B	N	M	<	>	/	SHIFT			HOME							
F00	F01	F02	F03	F04	F05	F06	F07	F08	F09	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21
LF																					
REP	DEL																				

31	Capacitor	12M/100V/5%	MC 3038	570, 100, 100	1	
30	Socket	24 pins	211513	570, 100, 100	1	
29	Resistor	1/4W/100W/5%	MC 3005	570, 100, 100	1	
28	Resistor	3/4W/100W/5%	MC 3005	570, 100, 100	1	
27	Resistor	3/4W/100W/5%	MC 3005	570, 100, 100	1	
26	Resistor	1/4W/100W/5%	MC 3005	570, 100, 100	2	
25	Resistor	1/4W/100W/5%	MC 3005	570, 100, 100	1	
24	Resistor	3/4W/100W/5%	MC 3005	570, 100, 100	3/11	
23	Resistor	1/4W/100W/5%	MC 3005	570, 100, 100	3/12	
22	Resistor	3/4W/100W/5%	MC 3005	570, 100, 100	4/13	
21	Resistor	1/4W/100W/5%	MC 3005	570, 100, 100	3/12	
20	Capacitor	100F/100V/10%	MC 3005	570, 100, 100	4/13	
19	Capacitor	100F/100V/10%	MC 3005	570, 100, 100	1	
18	Capacitor	100F/100V/10%	MC 3005	570, 100, 100	1	
17	Capacitor	100F/100V/10%	MC 3005	570, 100, 100	1	
16	Capacitor	100F/100V/10%	MC 3005	570, 100, 100	1	
15	Capacitor	100F/100V/10%	MC 3005	570, 100, 100	1	
14	Capacitor	100F/100V/10%	MC 3005	570, 100, 100	1	
13	Capacitor	100F/100V/10%	MC 3005	570, 100, 100	1	
12	Red LED	100F/100V/10%	MC 3005	570, 100, 100	2	
NO.	Type	Characteristics	Vendor code	ICE code	S/P	Obs.

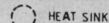
11	Transistor	2N3055	570, 100, 100	1		
10	J.C.	2N3055	570, 100, 100	1	ech.	
9	J.C.	2N3055	570, 100, 100	1	ech.	
8	J.C.	2N3055	570, 100, 100	1	ech.	
7	J.C.	2N3055	570, 100, 100	1	ech.	
6	J.C.	2N3055	570, 100, 100	1	ech.	
5	J.C.	2N3055	570, 100, 100	1	ech.	
4	J.C.	2N3055	570, 100, 100	1	ech.	
3	J.C.	2N3055	570, 100, 100	1	ech.	
2	J.C.	2N3055	570, 100, 100	1	ech.	
1	J.C.	2N3055	570, 100, 100	1	ech.	
No.	Type	Characteristics	Vendor code	ICE code	S/P	Obs.

KEYBOARD LAYOUT		
	369.108.145	
		Sheet 1 of 1



KEYBOARD DIAGRAM		
Rev.	369.108.144	
VDT 52-S		Sheet 1 of 1

NOTES: UNLESS OTHERWISE SPECIFIED



HEAT SINK

1. ALL RESISTORS ARE IN OHM; 0.5W

2. ALL CAPACITORS ARE IN μF , 100V

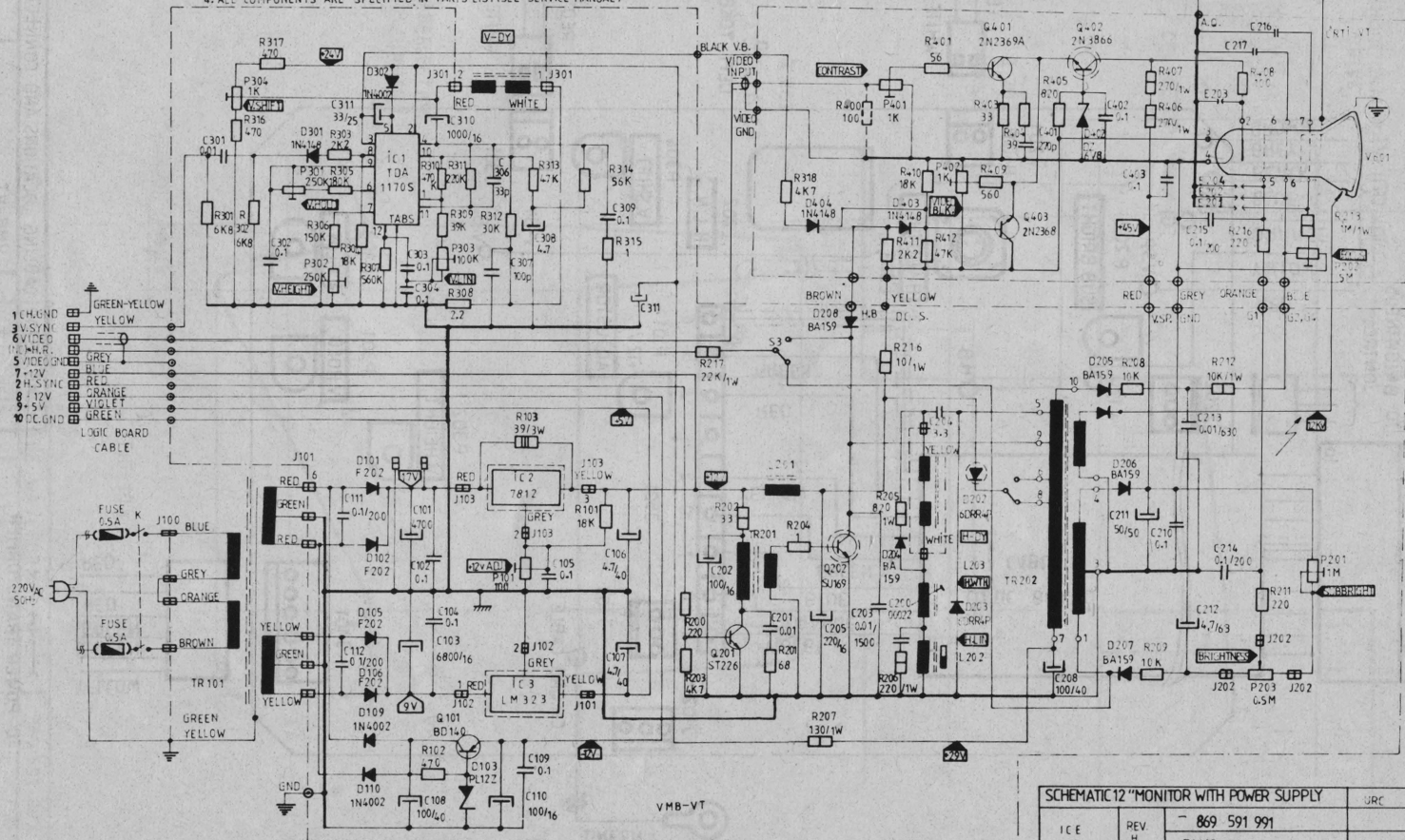
⊙ DENOTES PRINTED CIRCUIT

⊞ DENOTES HOUSING CONNECTOR

• DIRECT CONTACT

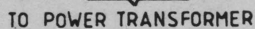
3. GREY SURFACE = ONLY FOR VDT 52 S (*)

4. ALL COMPONENTS ARE SPECIFIED IN PARTS LIST (SEE SERVICE MANUAL)



SCHEMATIC 12" MONITOR WITH POWER SUPPLY

ICE	REV	869 591 991	DM12-01	SHEET 1 OF 5
	H			

Rev.
H

Sheet 2 of 6

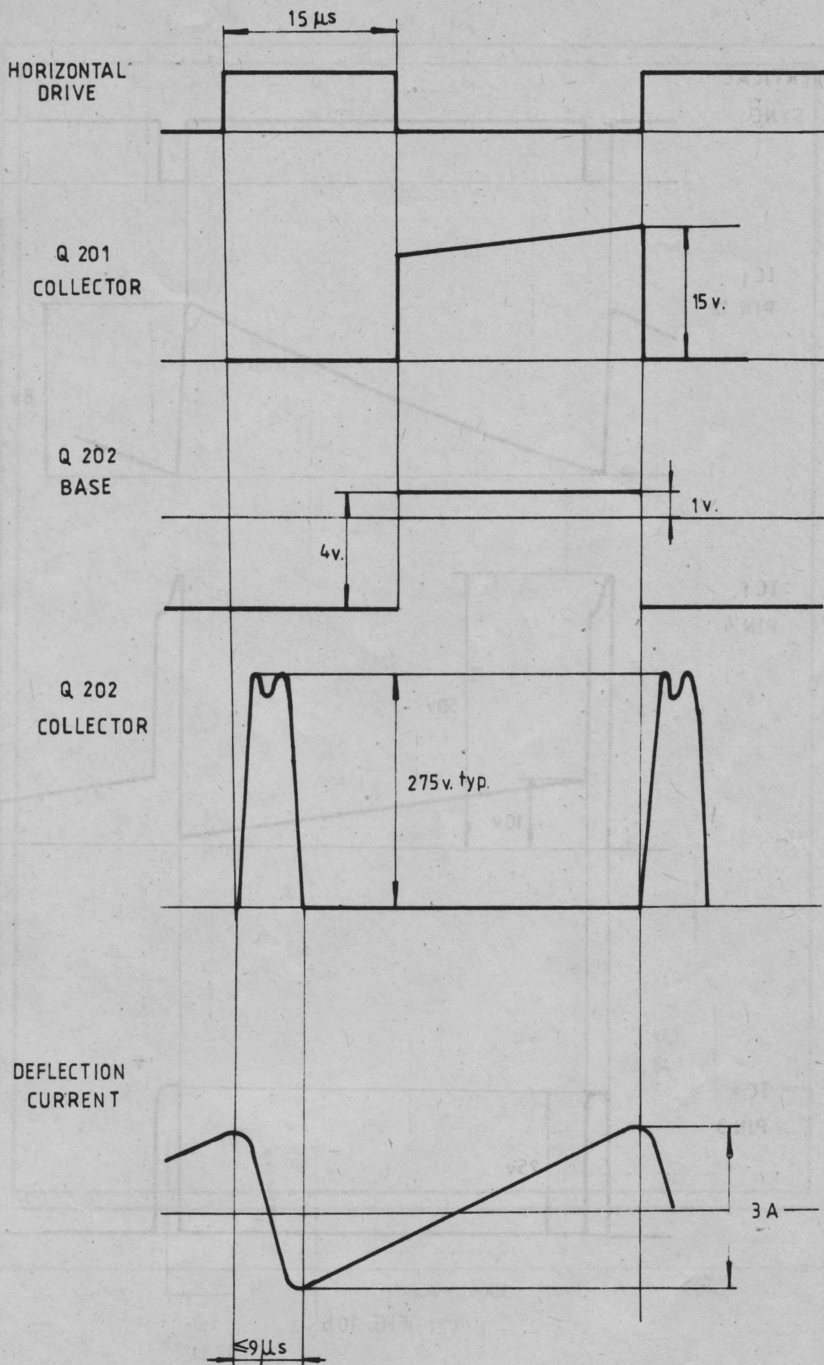


FIG. 10 a.

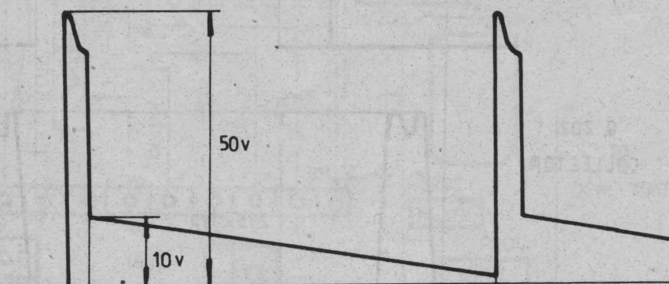
VOLTAGE WAVEFORMS			869 591 99X
Rev.	VMB - VT		
H			Sheet 3 of 6

VERTICAL
SYNC

IC₁
PIN 12



IC₁
PIN 4



IC₁
PIN 3

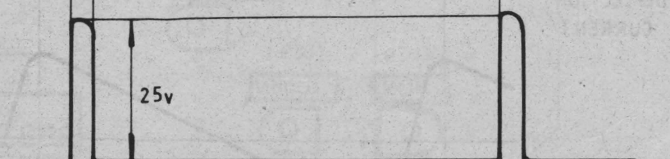


FIG. 10b.

VOLTAGE WAVEFORMS

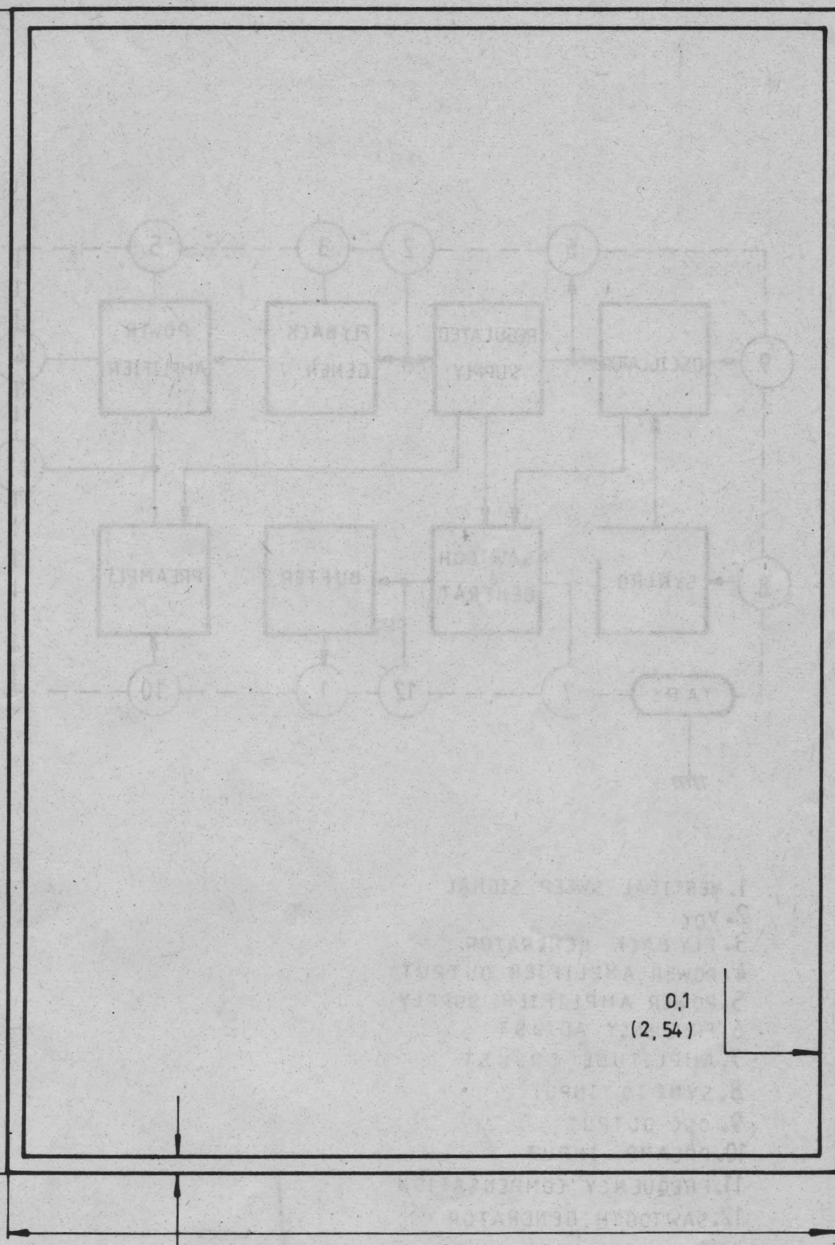
869 591 100

Rev.
A

VMB - VT

Sheet 4 of 6

8,30 MAX. (210,8)



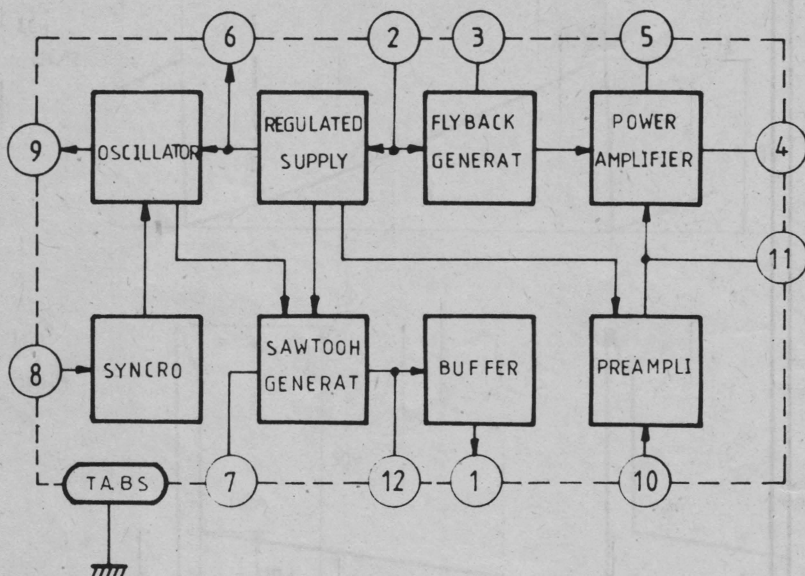
0,1
(2,54)

6,2 MAX.
(157)

0,1
(2,54)

FIG. 12

12" MONITOR DISPLAY AREA		869 591 100
Rev. A	VMB -VT	
		Sheet 5. of 6



1. VERTICAL SWEEP SIGNAL
2. V_{DC}
3. FLY BACK GENERATOR
4. POWER AMPLIFIER OUTPUT
5. POWER AMPLIFIER SUPPLY
6. FREQUENCY ADJUST
7. AMPLITUDE ADJUST
8. SYNCR0 INPUT
9. OSC OUTPUT
10. PREAMP INPUT
11. FREQUENCY COMPENSATION
12. SAWTOOTH GENERATOR

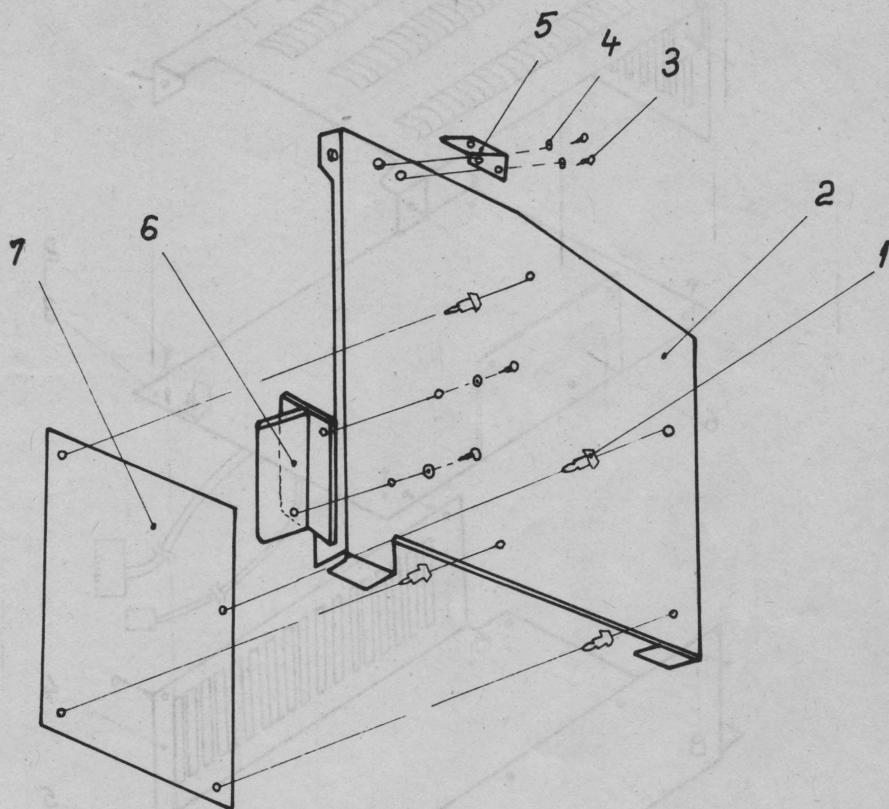
TDA 1170 SH PINS ASSIGNATION

Rev.

VBM-VT

VDT 52-5

Sheet 6 of 6



- 1 RENZEM CU BLOCARE
- 2 SUBANSAMBLU PERETE LATERAL DREAPTA
- 3 SURUB M 4x10
- 4 JALBA PLATA Ø4
- 5 ECHER TÂNDERE
- 6 RADIATOR IC2
- 7 PLACHETA UMB UD-C

869.991.020

869.591.271-A

906.054.410

906.080.400

869.591.527

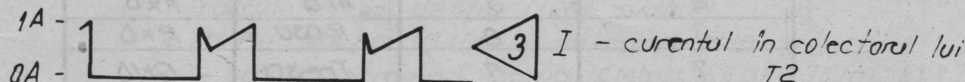
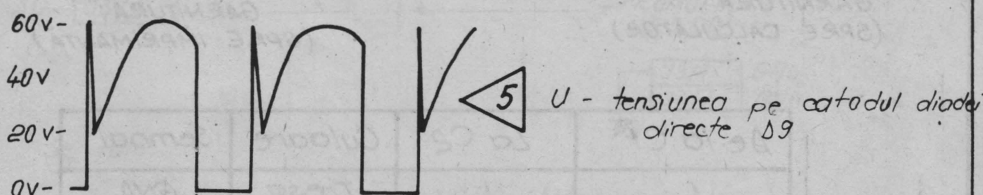
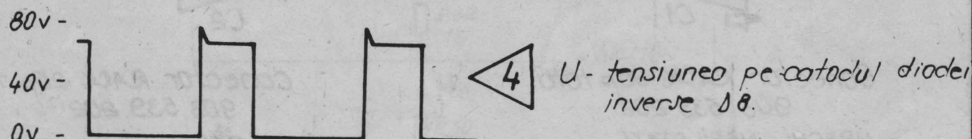
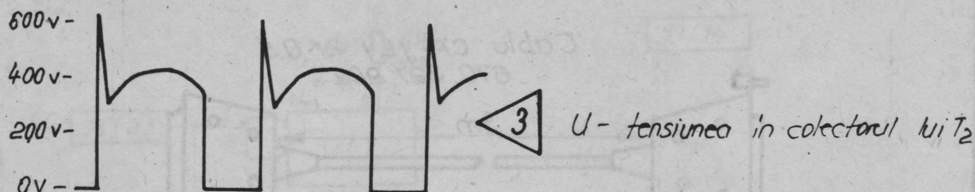
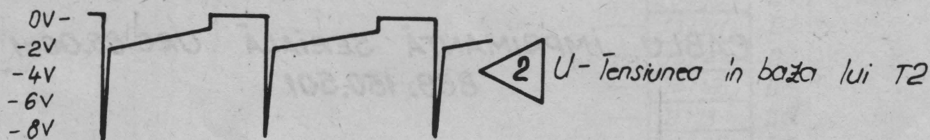
869.591.117

869.591.500-C

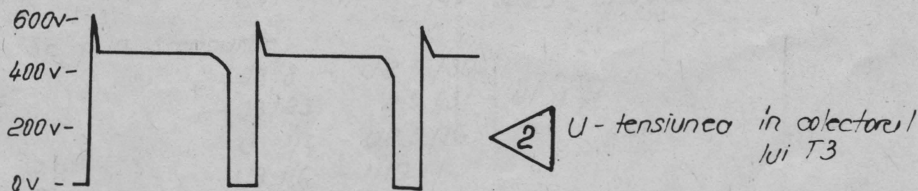
Perete lateral dreapta.

ICE
APME

CUB-2

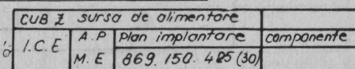


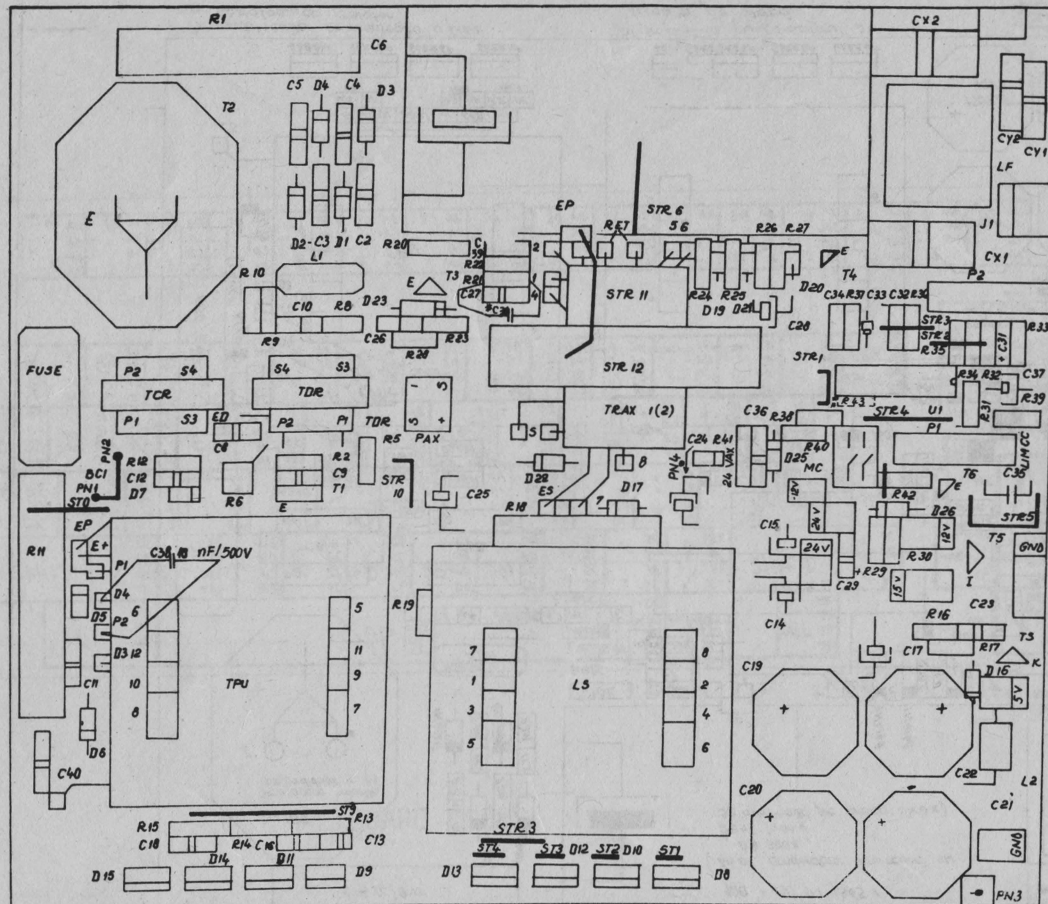
a) Diagrama de semnal pentru sursa de putere



b) Diagrame de semnal pentru sursa auxiliară.

CUB-2 SURSA			
I.C.E	A.P	Diagrame de semnal	
	M.E	869 150 400	





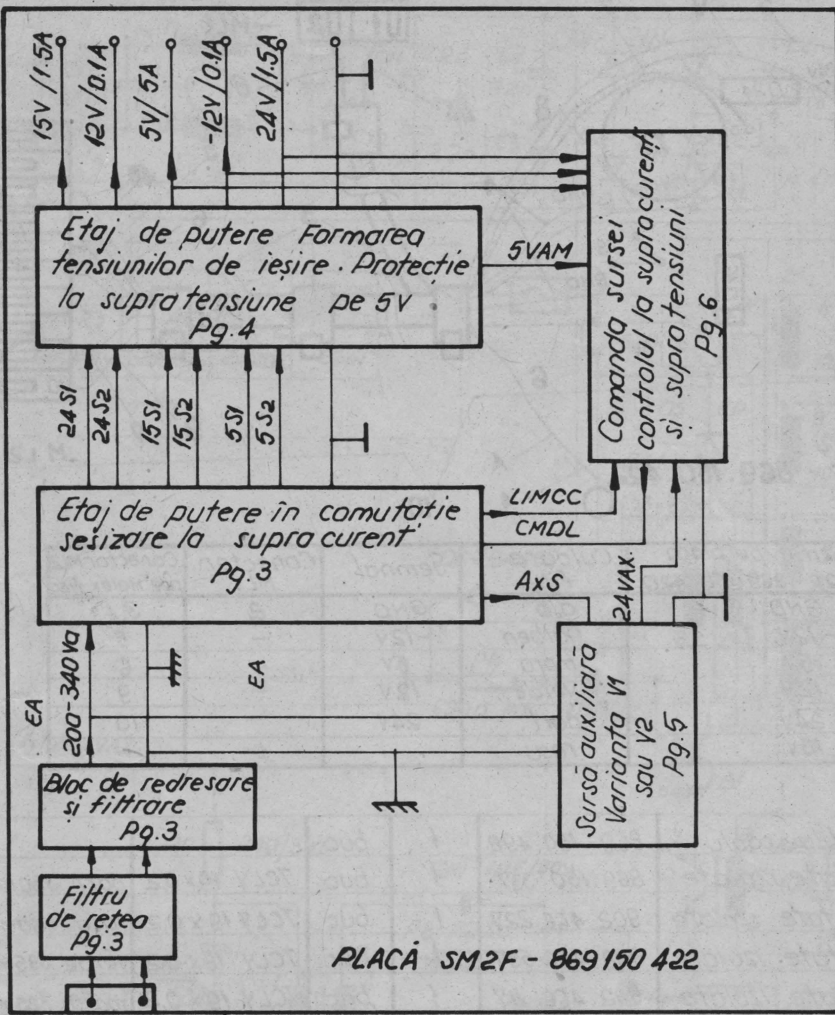
NOTĂ:

Strapuri se montează primele cu excepția BC1
- e fir izolat TLTY TX0,2 negru de 0,06 m. ce se
montează numai după testarea sursei, avuțare și a
circuitului de comandă și control pe pinii PN1 - PN2

* C30 se implentează pentru T3 - Box 66 în capsula
mare - TO 220

* R43 se montează pe spatele plăcii după
întreruperea traseului de pleacă din pinul 13
a circuitului U1, unind cele două secțiunile.

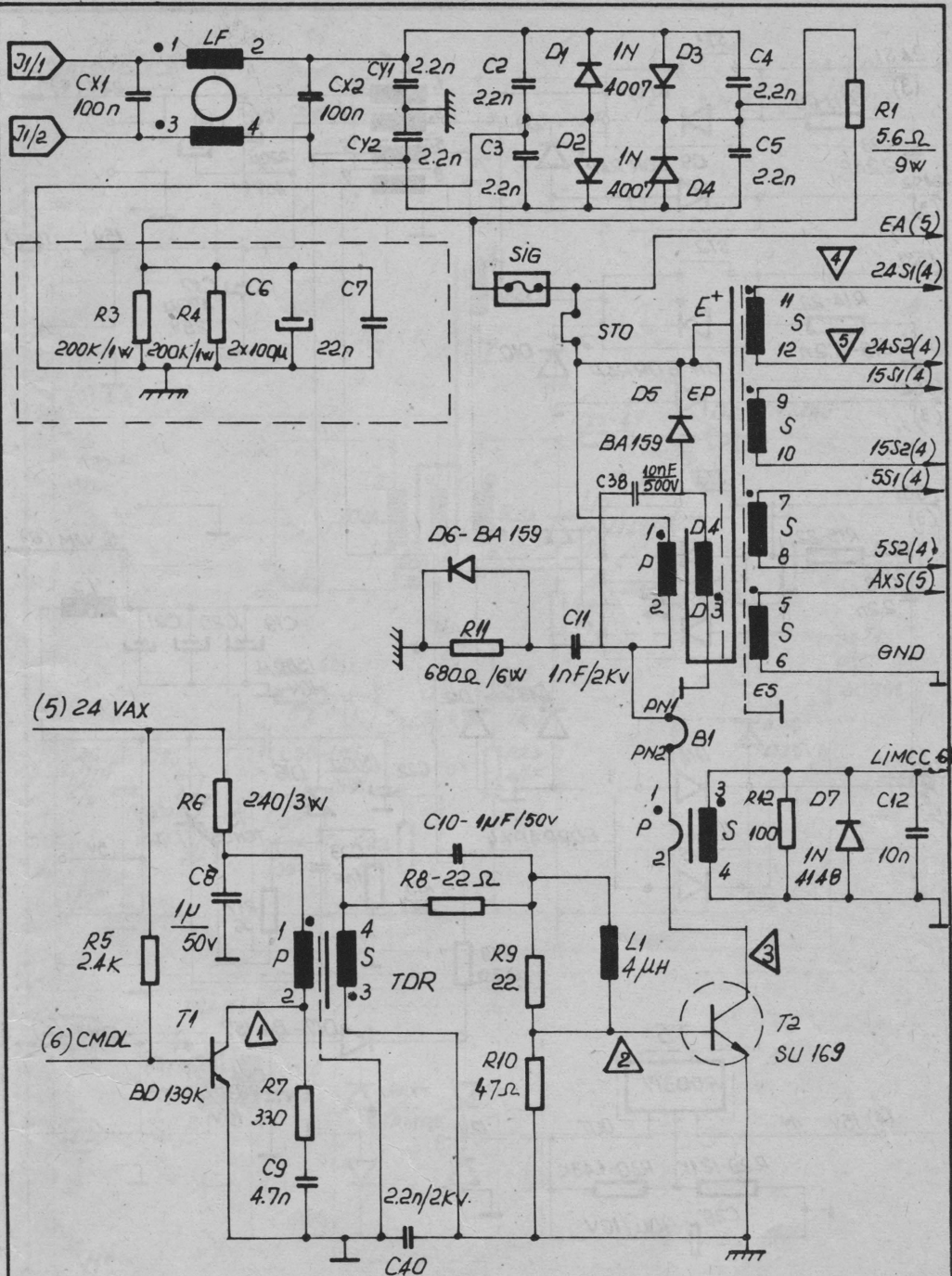
CUB 2 sursă de alimentare			
I.C.E	A.B	plan implantare	strapuri
M.E		869 150.425	



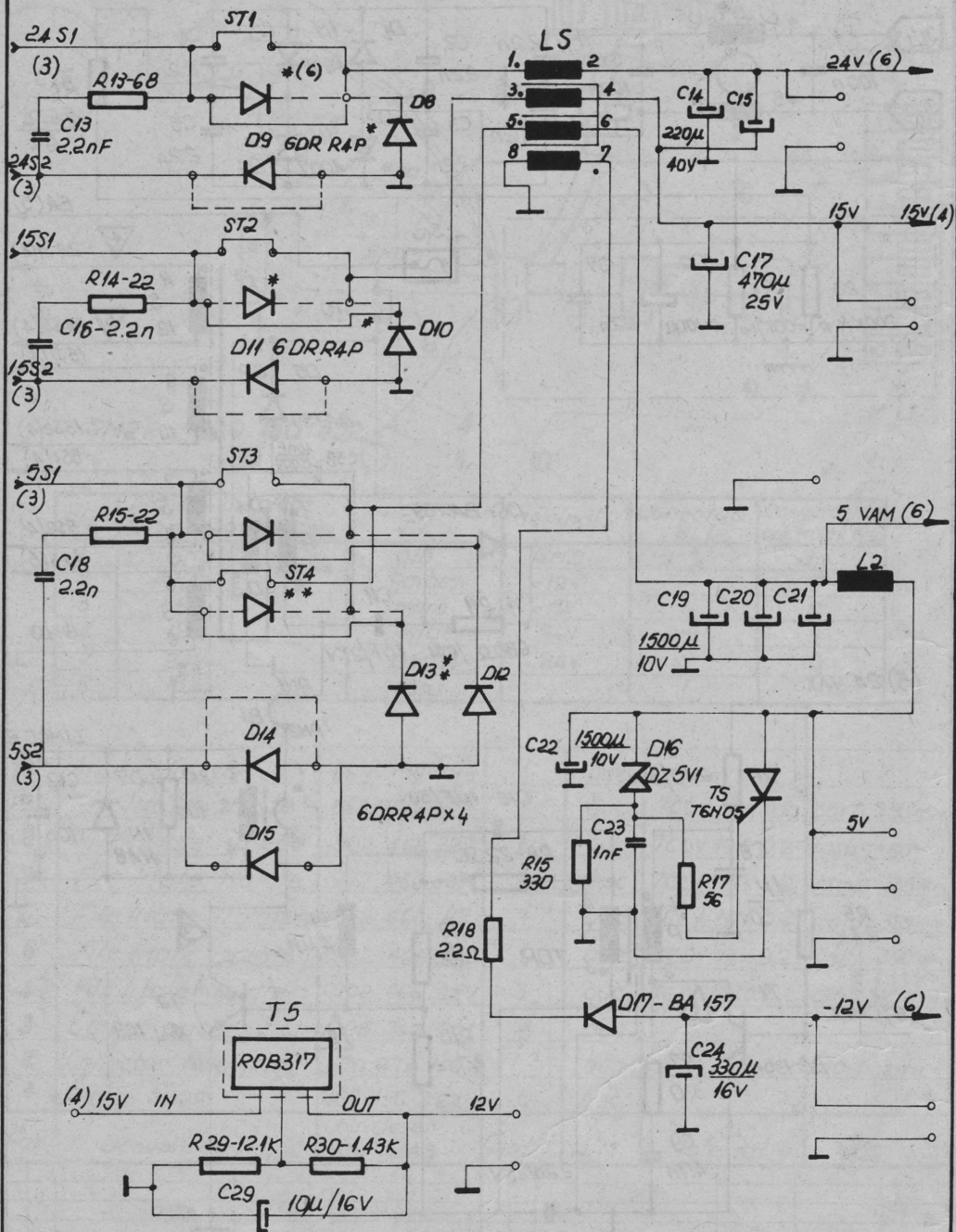
PLACA SM2F - 869150422

RETEA
~ 220V / 50Hz.

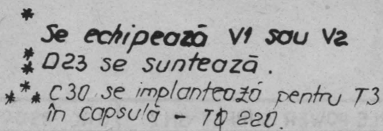
SWITCH MULTIPLE POWER SUPPLY SM2		URC 8504
Rev.	Block diagram	
		Fila 1 din 6



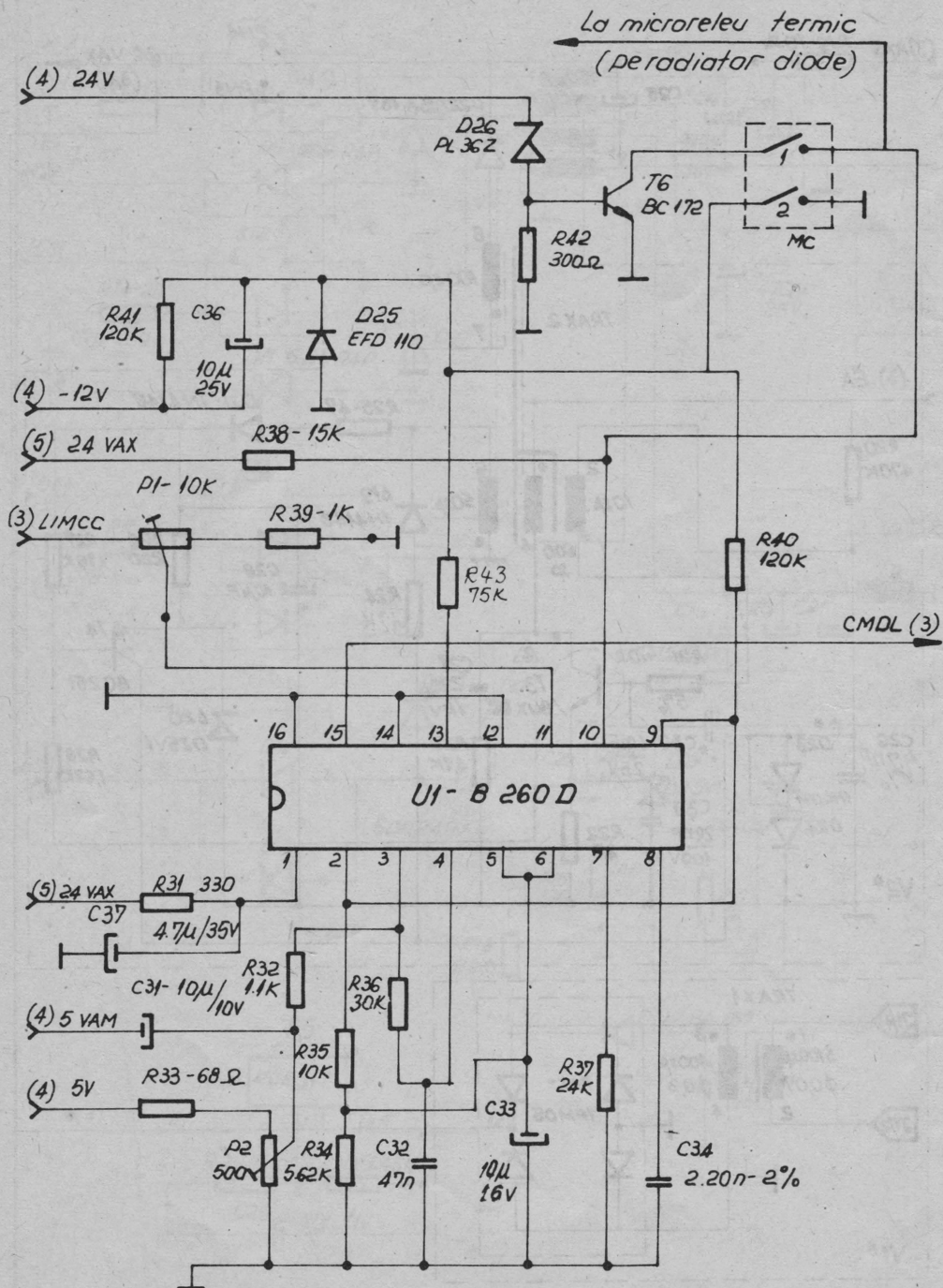
SWITCH MULTIPLE POWER SUPPLY SM2		URC 8504
Rev.	Power stage diagram	
		Fila 3 din 6



SWITCH MULTIPLE POWER SUPPLY SM2		URC 8504
Rev.	POWER OUT PUTS DIAGR.	
		Fila 4 din 6



Fila 5 din 6



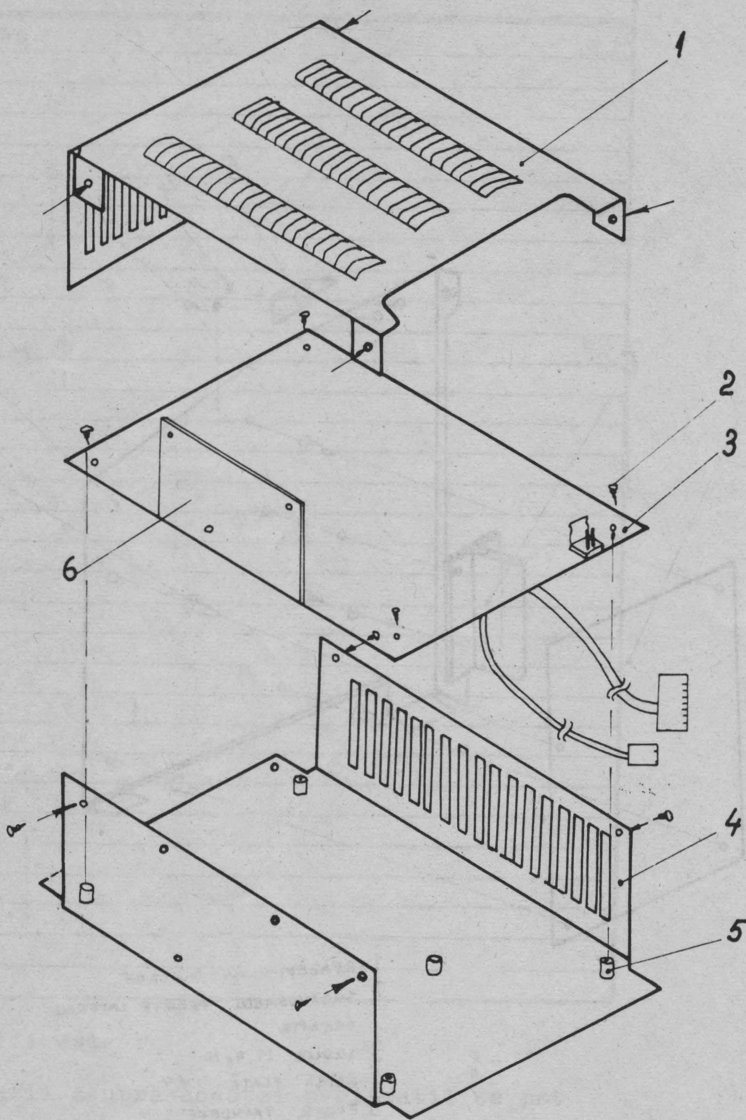
SWITCH MULTIPLE POWER SUPPLY SM2

URC 8504

Rev.

Power control diagram

Fila 6 din 6



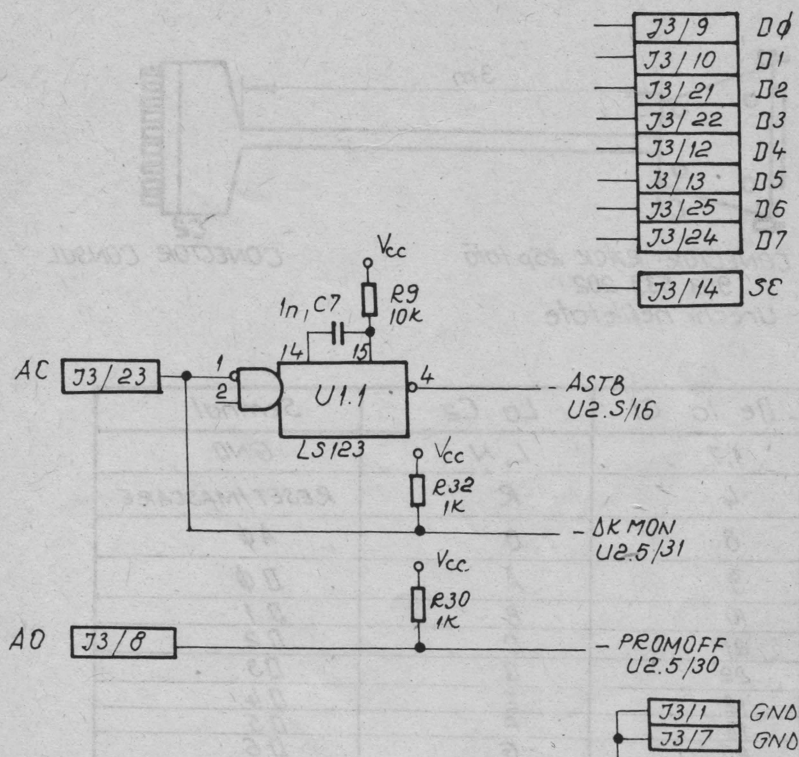
- | | | |
|---|------------------------|-------------|
| 1 | CAPAC CUTIE | 869 150 473 |
| 2 | surub M 3x6 | 906 054 306 |
| 3 | PLACETA SM 2F | 869 150 422 |
| 4 | CUTIE SURSA | 869 150 471 |
| 5 | PLACATA DE SORTIRAT MS | 869 150 472 |
| 6 | RADIATOR SURSA | 869 150 464 |

Asamblare sursa

ICE
APME

CUB-Z

Modificări pe MBZ pentru cuplarea imprimantei CONSUL la microcalculatorul CUB-2



Se taie

- traseul de pe U2.5/30 (fața suduri)
 - traseul de pe U2.5/16 (fața suduri)
 - traseul de pe U1.1/1 (fața componente, sub U1.1)
- se scoate strap-ul de pe CMD (U2.5/31 - J5/a1, b1)

se plantează:

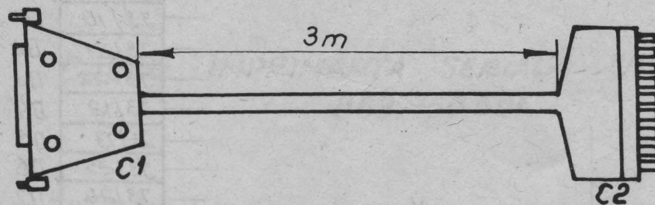
- R9 = 10kΩ, RPM 3050, 5%
- C7 = 1nF, MF 3223, 10%, 50V

Se pun strapurile:

- J3/8 - U2.5/30
- J3/23 - U2.5/31 - U1.1/1
- U1.1/4 - U2.5/16
- U9.1/6 - U10.1/2
- S21 - S22
- J5/a1, b1 - U1.1/8

CUB-2			
I.C.E	A.P	Imprimanta	
	M.E	CONSUL	Fila 1/2

CABLU CUB-2 , imprimantă CONSUL



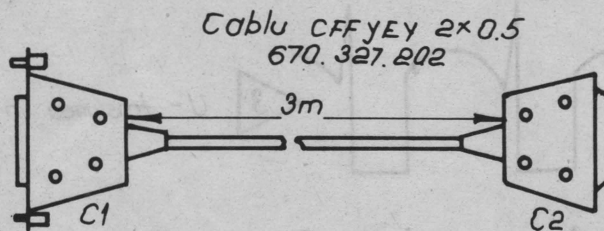
CONECTOR RACK 25p totă
903.539.202
Urechi nefiletate

CONECTOR CONSUL

De la C1	La C2	Semnal
1,7	L, N	GND
4	R	RESET/MASCARE
8	D	A ϕ
9	A	D ϕ
10	B	D 1
21	C	D 2
22	D	D 3
12	E	D 4
13	F	D 5
25	G	D 6
24	H	D 7
14	K	SC
23	M	AC
	S T W I J P V	Străpeti pe C2

CUB-2			
I.C.E	A.P	Imprimantă	
	M.E	CONSUL	Fila 2/2

CABLU IMPRIMANTĂ SERIALĂ URC 85.06-1 869.150.501



Conector RACK 25p totă
903.539.202

URECHI NEFILETATE
GARNITURĂ
(SPRE CALCULATOR)

Conector RACK 25p totă
903.539.202

CU CAPAC:
GARNITURĂ:
(SPRE IMPRIMANTĂ)

De la C1	La C2	Culoare	Semnal
1	1	Tresa	GND
2	3	A/b	TxD
3	2	ROSU	RxD
7	7	Tresa	GND

FORMA CABLU CUB-2		869.150.501
I.C.E	A.P	Imprimantă serială
	M.E	