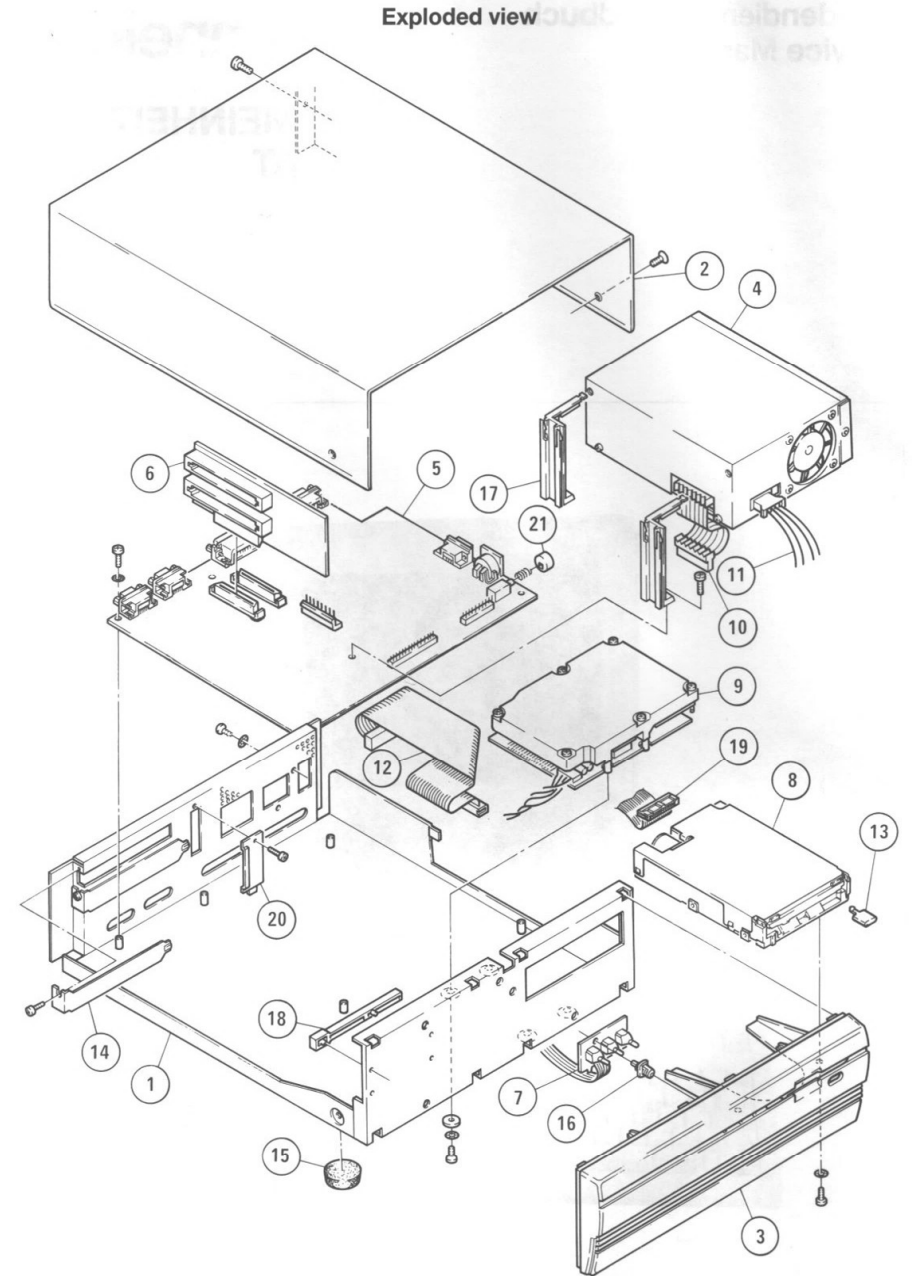


SYSTEMEINHEIT  
EURO AT

Ident-Nr.: 43490



Ersatzteilliste für Euro AT  
Parts List for Euro AT

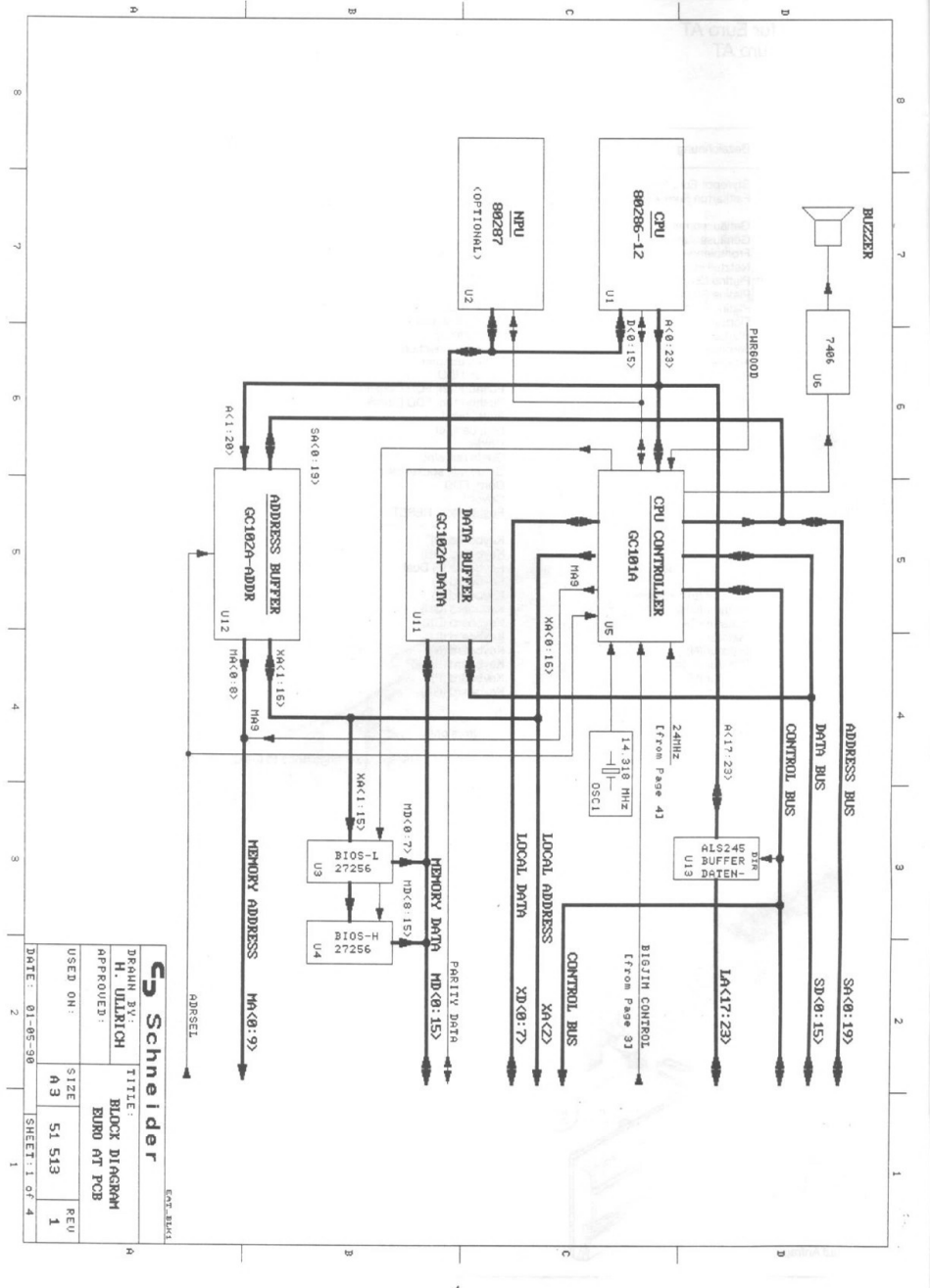
Best.-Nr. Part.-No.	Bezeichnung	Description	Zeich.-Pos. Ref.-No.	Preisgruppe
51 451 00	Styropor Euro XT/AT	Polyfoam		C 1
51 452 00	Faltkarton Euro XT/AT	Gift box		C 0
51 254 00	Gehäuseunterteil	Cabinet, bottom	1	D 4
51 257 00	Gehäuseoberteil	Cabinet, top	2	D 2
51 462 00	Frontblende	Front, mask	3	C 3
51 467 00	Netzteil Euro XT	Power supply	4	F 9
51 513 00	Platine CPU	P.C.B. CPU	5	
51 620 00	Platine Steckplatz	P.C.B. slot	6	D 8
52 122 00	Platine LED	P.C.B. LED	7	C 2
50 021 00	Floppylaufwerk	Floppy disk drive	8	G 7
51 550 00	HD-Laufwerk	Hard disk drive	9	J 2
51 430 00	Verbindungskabel, Netz-CPU	Cabel, connection	10	B 3
51 458 00	Adapferkabel HD 4pol.	Cabel, adapter	11	B 4
51 444 00	HD-Kabel	Cabel, HDD	12	C 0
50 056 00	Druckknopf für FDD (Toshiba)	Pushbutton, FDD (Toshiba)	13	A 5
50 294 00	Druckknopf für FDD (Sony)	Pushbutton, FDD (Sony)	13	A 5
50 020 00	Blindblech	Plate, blind	14	A 7
51 456 00	Gehäusefuß	Leg, cabinet	15	A 4
51 457 00	Platienhalter	Holder	16	A 3
51 262 00	Führungsschiene Steckplatz	Guide rail, slot	17	A 6
50 865 00	Führungsschiene Steckkarte	Guide rail, socket card	18	A 6
51 443 00	Kabelbaum FDD	Cord, FDD	19	B 6
51 266 00	Abdeckung	Cover	20	A 5
51 630 00	Druckknopf RESET	Pushbutton, RESET	21	A 6
51 750 00	Tastatur (D)	Keyboard (D)		F 6
51 751 00	Tastatur (GB)	Keyboard (GB)		F 6
51 752 00	Tastatur (F) Dual	Keyboard (F) Dual		F 6
51 753 00	Tastatur (F)	Keyboard (F)		F 6
51 754 00	Tastatur (E)	Keyboard (E)		F 6
51 755 00	Tastatur (CH)	Keyboard (CH)		F 6
51 756 00	Tastatur (DK)	Keyboard (DK)		F 6
51 757 00	Tastatur (I)	Keyboard (I)		F 6
51 758 00	Tastatur (N)	Keyboard (N)		F 6
51 759 00	Tastatur (S/SF)	Keyboard (S/SF)		F 6
51 760 00	Tastatur (P)	Keyboard (P)		F 6
51 761 00	Tastatur (GR)	Keyboard (GR)		F 6

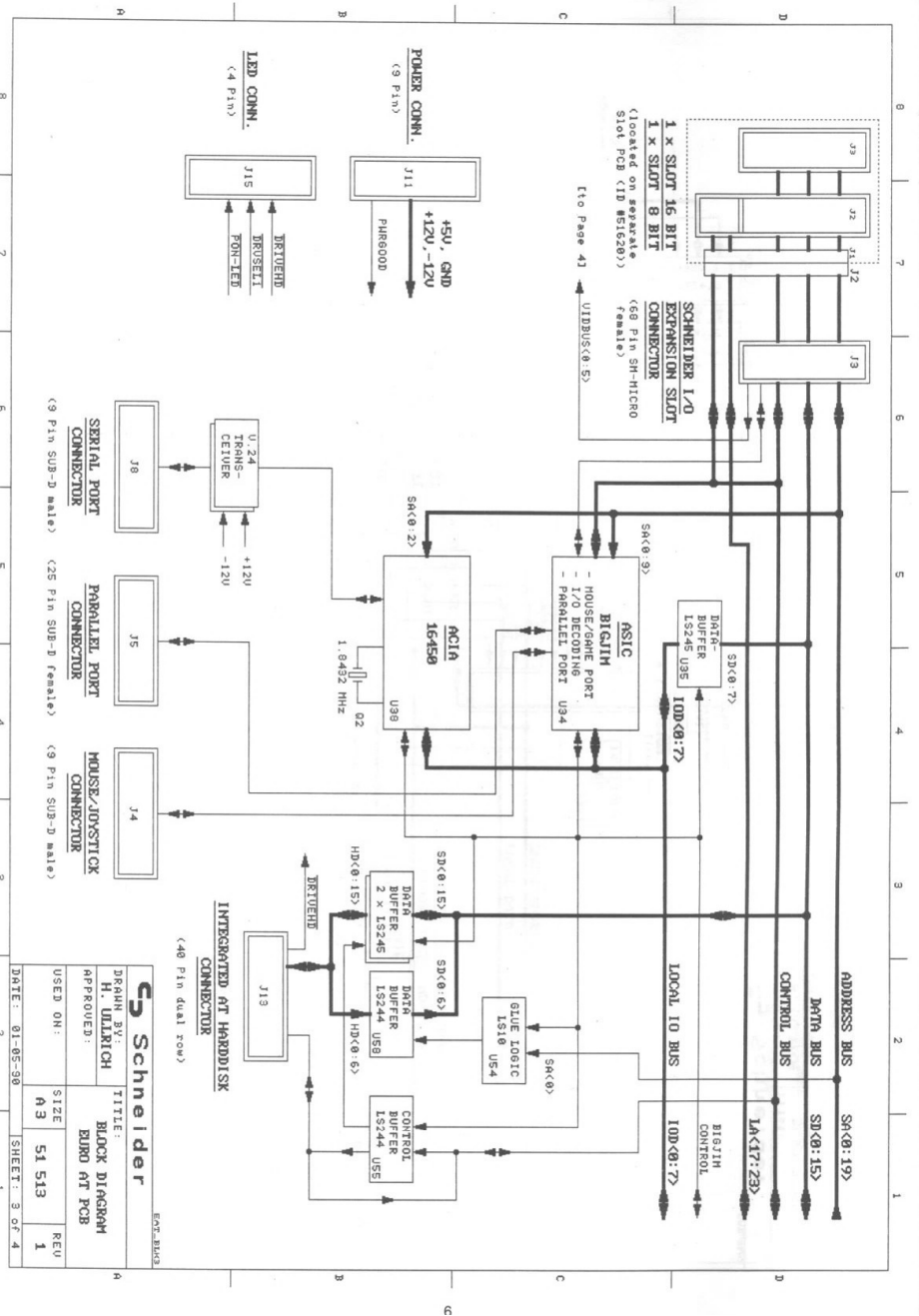
Note: All spare parts with countryindex are reserved for foreign distributors only.

All 3.5" and 5.25" floppydisks must be replaced by new ones. Schneider passes no exchange price to the distributor or dealer.

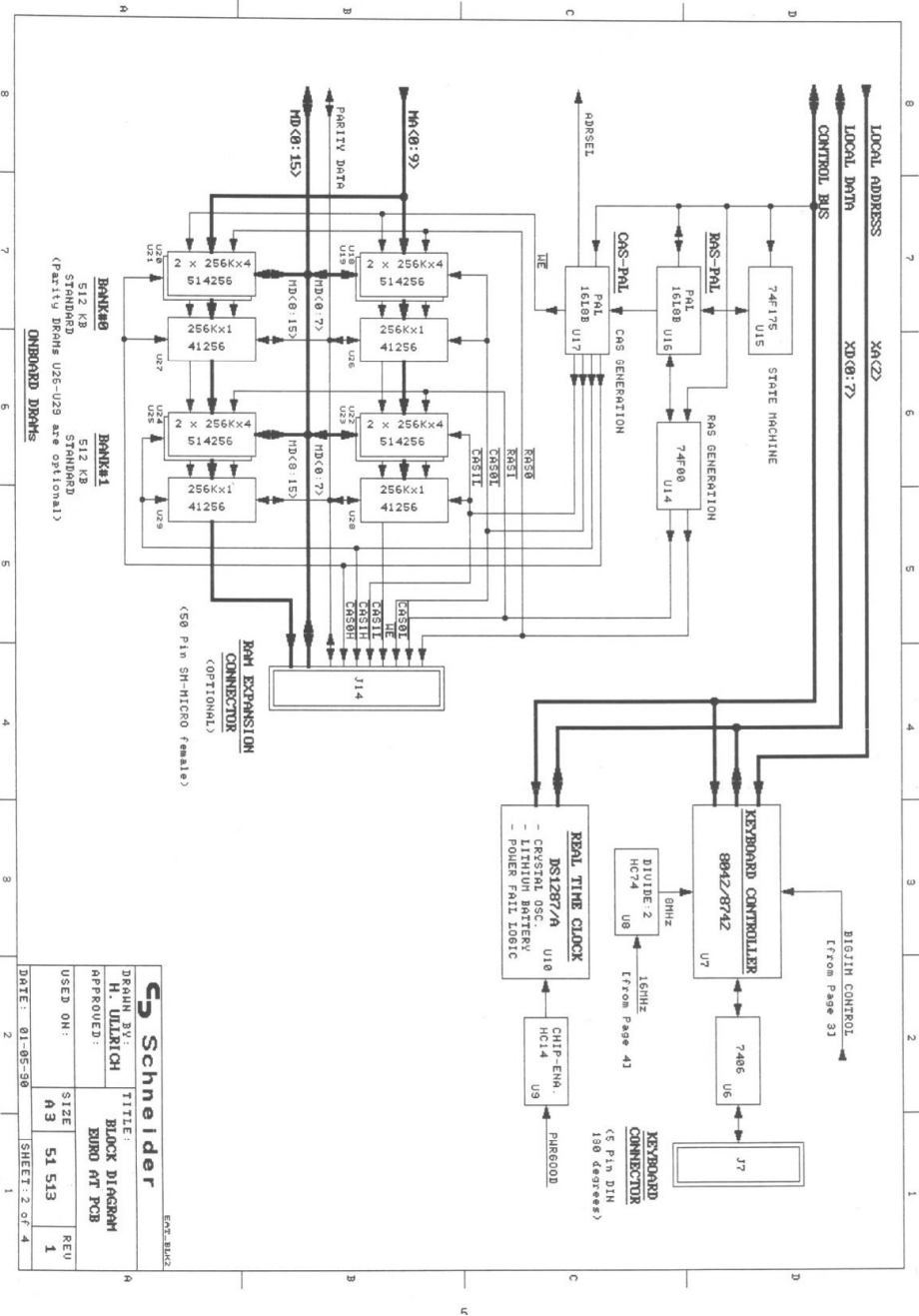
\*Preis auf Anfrage

\*Please call for price





<b>Schneider</b>			
DRAWN BY:	TITLE:	SIZE:	REV:
H. ULLRICH	BLOCK DIAGRAM	A3	1
APPROVED:	BURD AT PCB	DATE:	SHEET:
USED ON:		01-05-90	3 of 4



<b>Schneider</b>			
DRAWN BY:	TITLE:	SIZE:	REV:
H. ULLRICH	BLOCK DIAGRAM	A3	1
APPROVED:	BURD AT PCB	DATE:	SHEET:
USED ON:		01-05-90	2 of 4

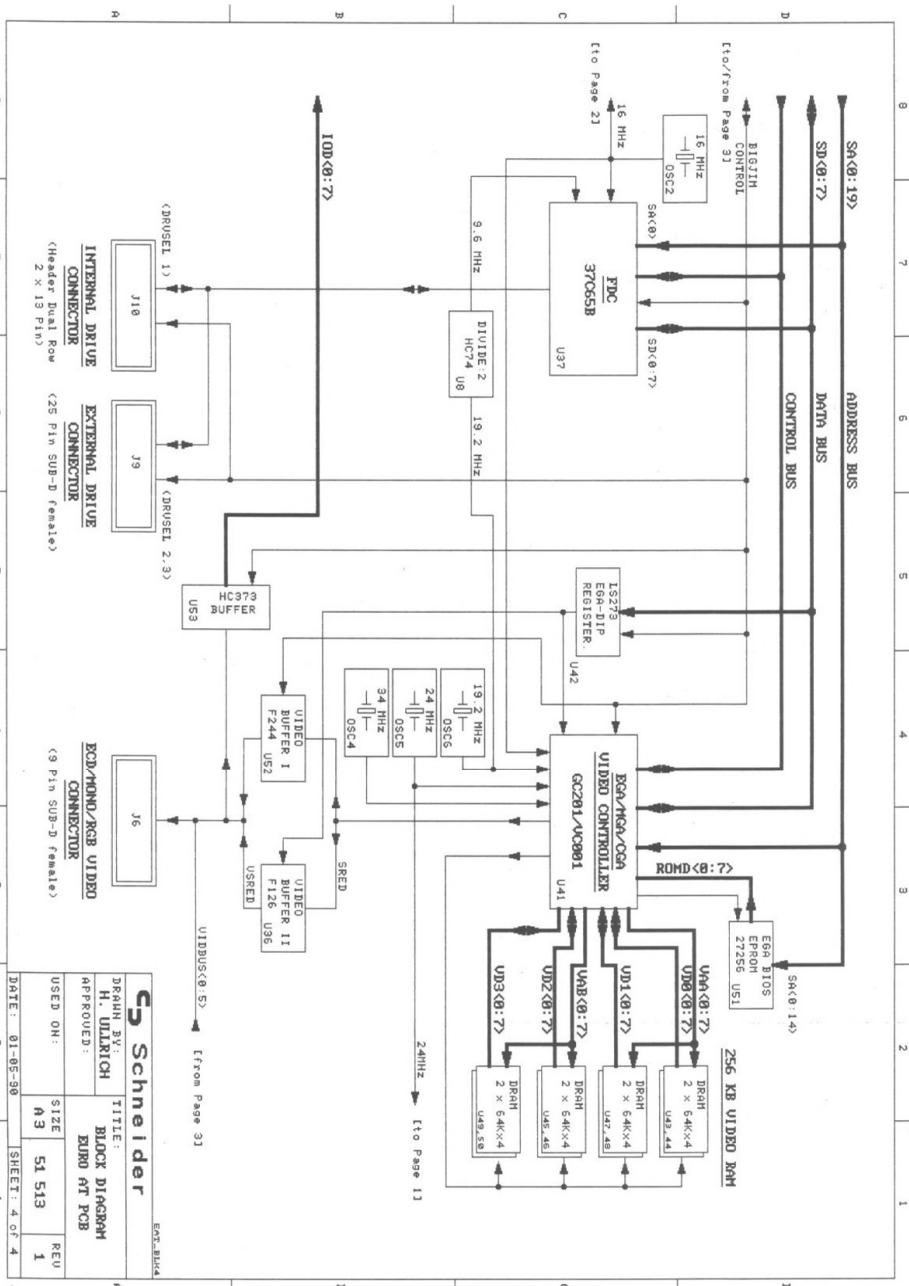
REVISONS		DATE	APPROVED
LTR	DESCRIPTION		
5	PCB REVISION 1	12-07-89	
6	PCB REVISION 1A, OSC1 REPLACES Q1	12-07-89	K. MINZKE
7	PCB REV. 1B, C202 NOT USED	01-12-90	K. MINZKE

DRAWING FILES: CONTENTS:

EAT\_71.DMG THIS SHEET  
EAT\_72.DMG CPU SECTION  
EAT\_73.DMG BIOS EPROMS  
EAT\_74.DMG GC 101 A  
EAT\_75.DMG KEYBOARD / CLOCK  
EAT\_76.DMG REAL TIME CLOCK / SRKR  
EAT\_77.DMG ADDRESS / DATA BUFFERS  
EAT\_78.DMG MEMORY I  
EAT\_79.DMG MEMORY II  
EAT\_80.DMG BIGJIM  
EAT\_81.DMG FLOPPY INTERFACE  
EAT\_82.DMG SERIAL INTERFACE  
EAT\_83.DMG VIDEO CONTROLLER  
EAT\_84.DMG VIDEO MEMORY  
EAT\_85.DMG VIDEO INTERFACE  
EAT\_86.DMG VIDEO INTERFACE  
EAT\_87.DMG VIDEO INTERFACE  
EAT\_88.DMG VIDEO INTERFACE  
EAT\_89.DMG VIDEO INTERFACE  
EAT\_90.DMG VIDEO INTERFACE  
EAT\_91.DMG VIDEO INTERFACE  
EAT\_92.DMG VIDEO INTERFACE  
EAT\_93.DMG VIDEO INTERFACE  
EAT\_94.DMG VIDEO INTERFACE  
EAT\_95.DMG VIDEO INTERFACE  
EAT\_96.DMG VIDEO INTERFACE  
EAT\_97.DMG VIDEO INTERFACE  
EAT\_98.DMG VIDEO INTERFACE  
EAT\_99.DMG VIDEO INTERFACE  
EAT\_100.DMG VIDEO INTERFACE

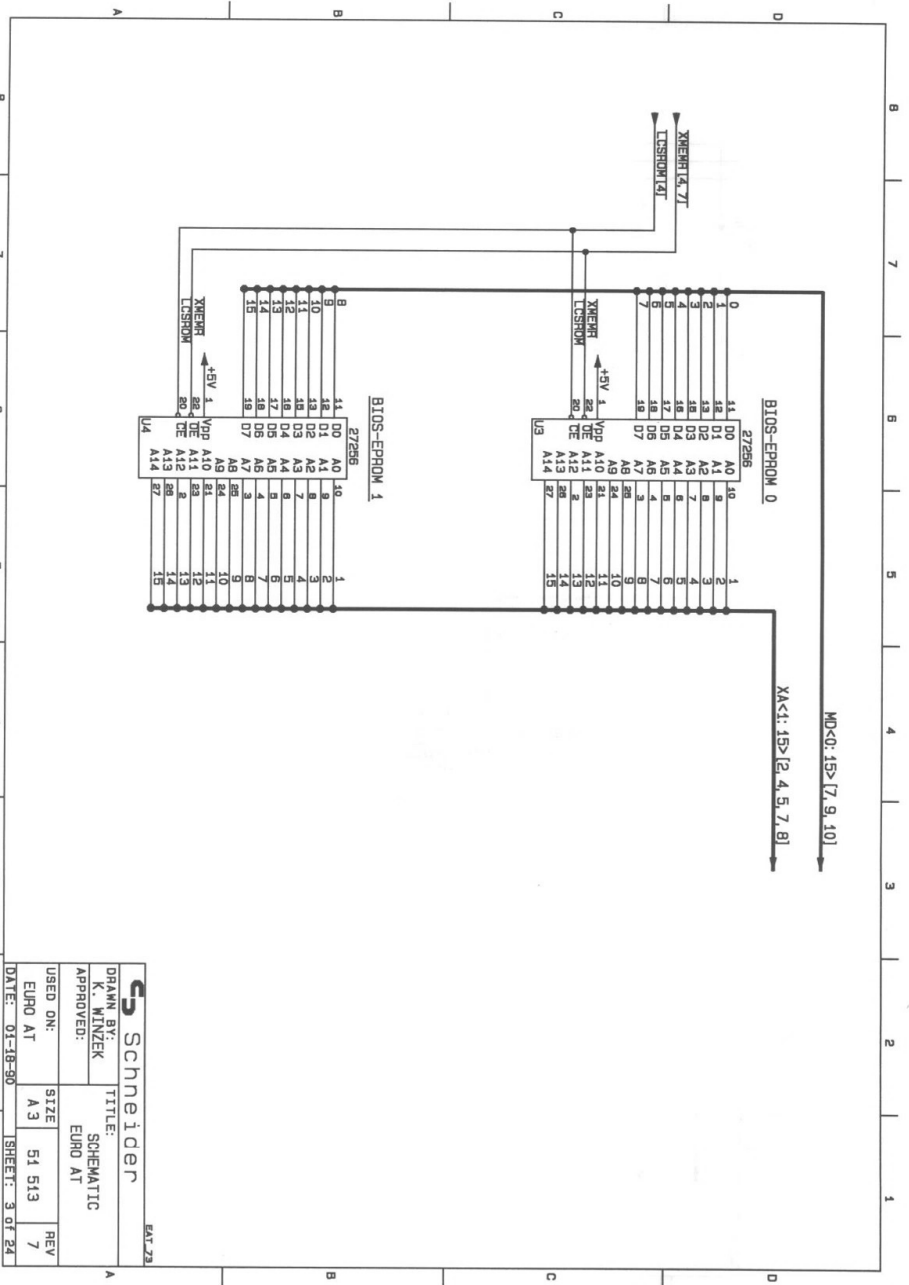
**Schneider** EAT 21

DRAWN BY: K. MINZKE TITLE: SCHEMATIC EURO AT  
APPROVED: \_\_\_\_\_  
USED ON: \_\_\_\_\_ SIZE: 51 513 REV: 7  
EURO AT: A3 DATE: 01-19-90 SHEET: 1 of 24

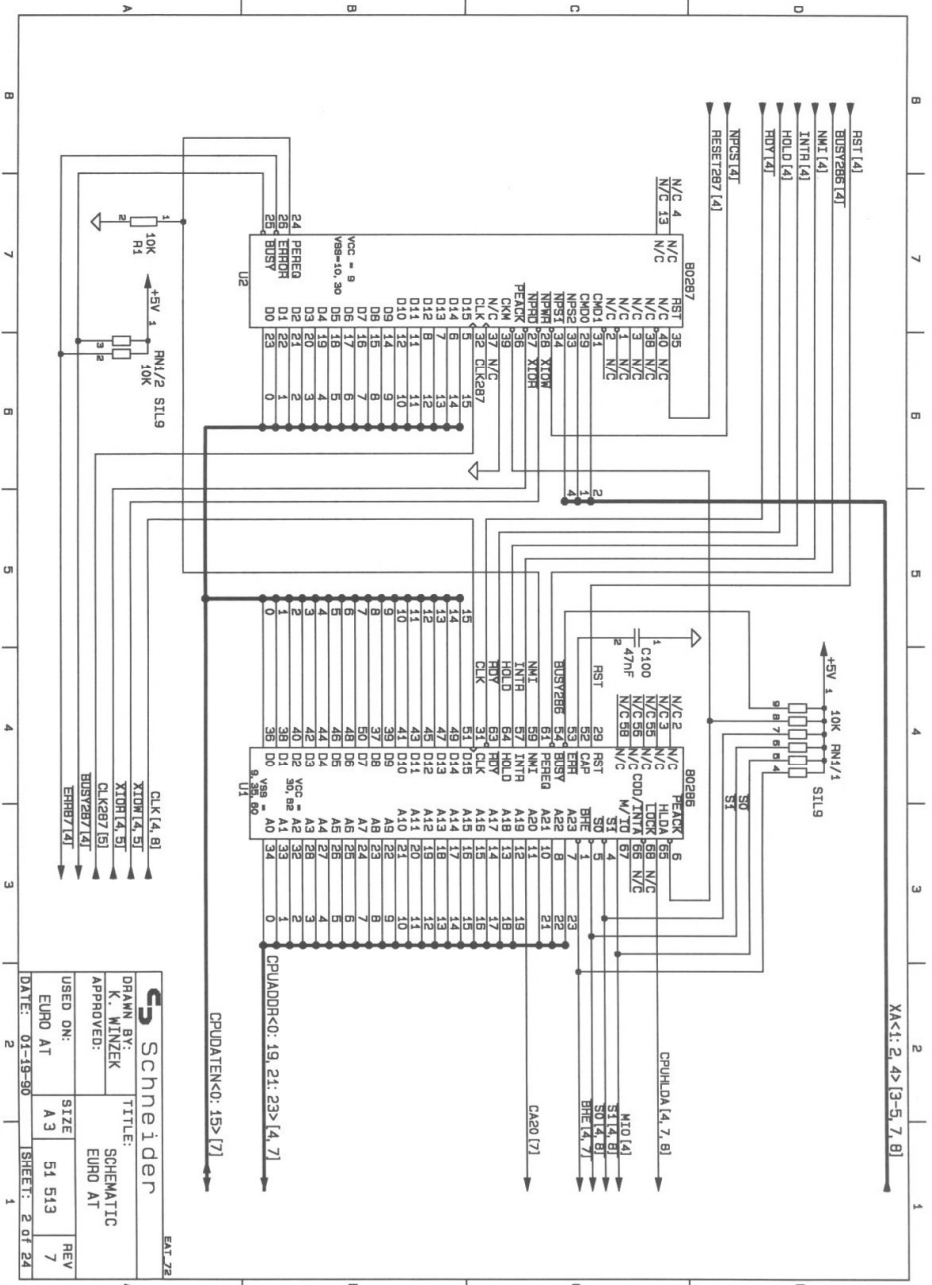


**Schneider** ECP-8104

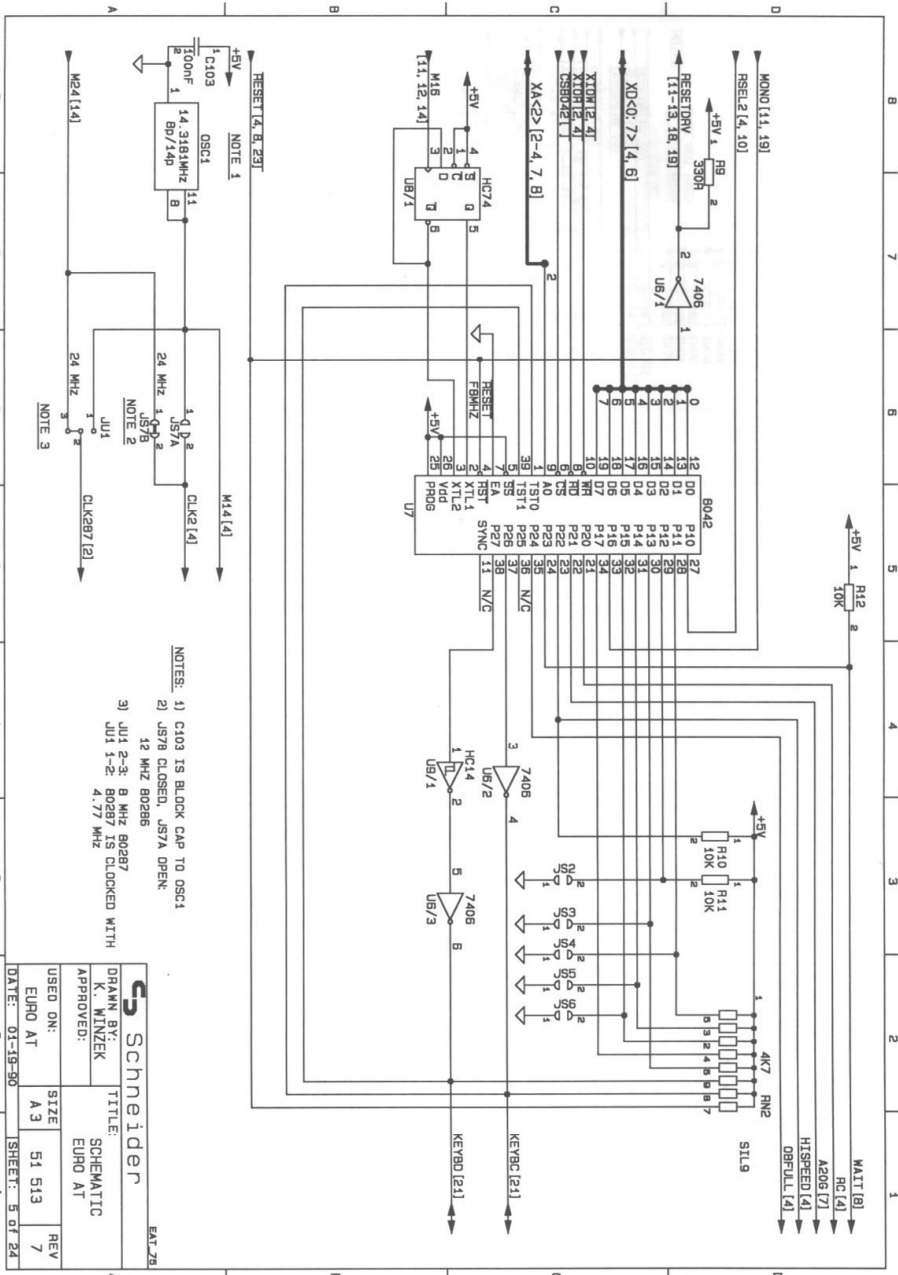
DRAWN BY: H. ULMIRICH TITLE: BLOCK DIAGRAM  
APPROVED: \_\_\_\_\_ EURO AT PCB  
USED ON: \_\_\_\_\_ SIZE: 51 513 REV: 1  
DATE: 01-05-90 SHEET: 4 of 4



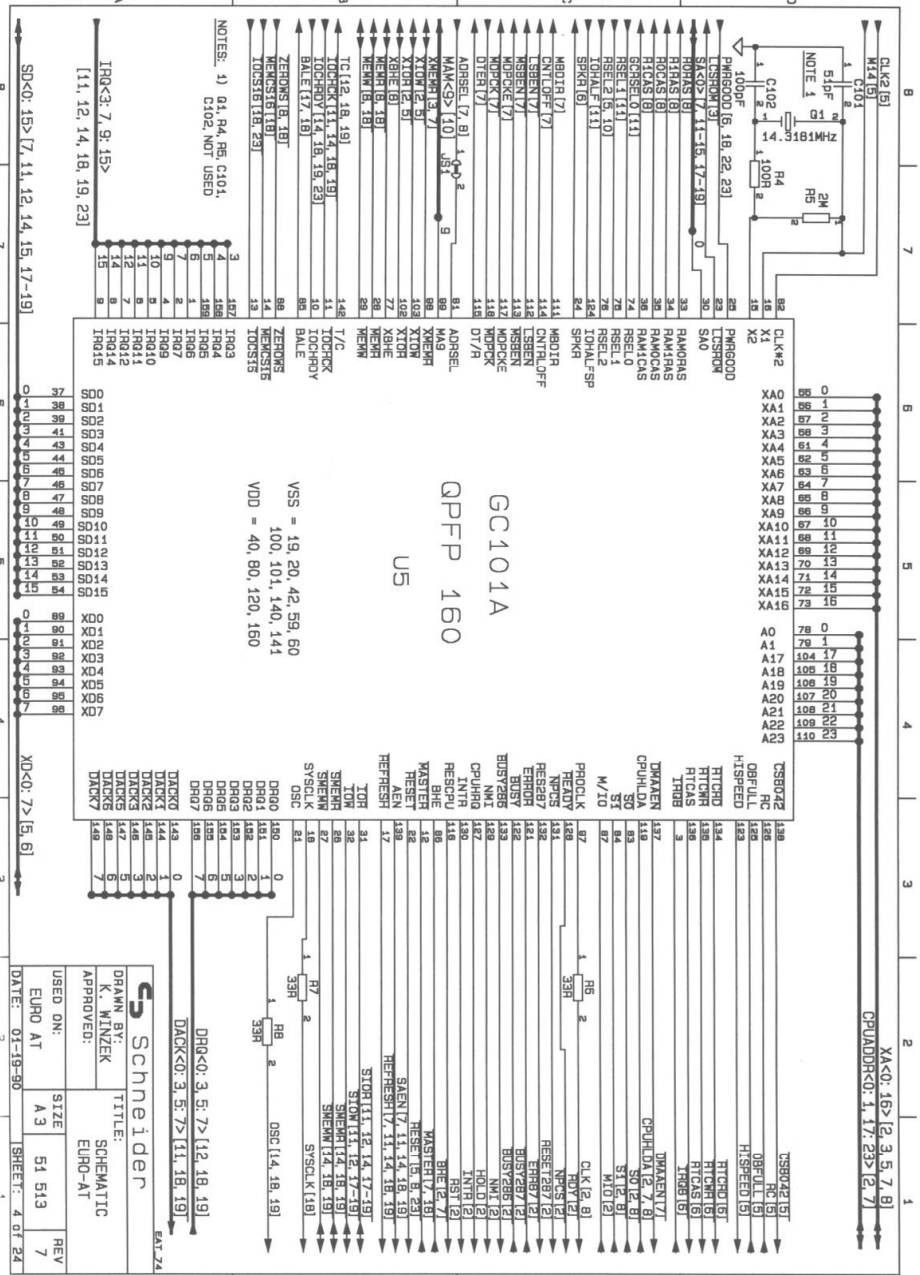
<b>Schneider</b>		EAT-23	
DRANN BY:	K. WINZEK	TITLE:	SCHEMATIC
APPROVED:		EURO AT	
USED ON:	EURO AT	SIZE:	A3
DATE:	01-18-90	REV:	51 513 7
		SHEET:	3 OF 24



<b>Schneider</b>		EAT-23	
DRANN BY:	K. WINZEK	TITLE:	SCHEMATIC
APPROVED:		EURO AT	
USED ON:	EURO AT	SIZE:	A3
DATE:	01-18-90	REV:	51 513 7
		SHEET:	2 OF 24

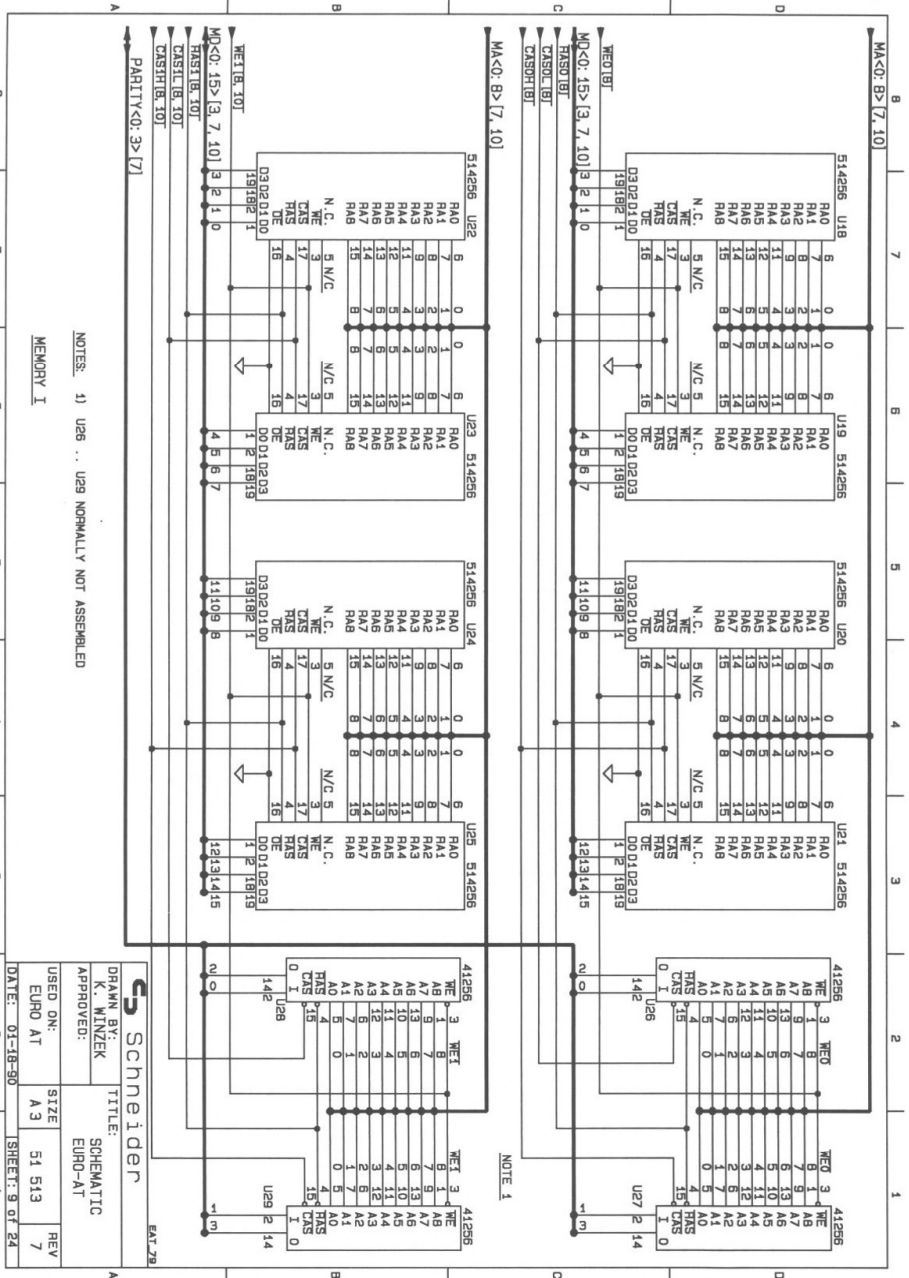


**Schneider**  
 DRAWN BY: K. WINZEL  
 APPROVED: EURO AT  
 TITLE: SCHEMATIC  
 SHEET: 5 OF 24



**Schneider**  
 DRAWN BY: K. WINZEL  
 APPROVED: EURO AT  
 TITLE: SCHEMATIC  
 SHEET: 4 OF 24

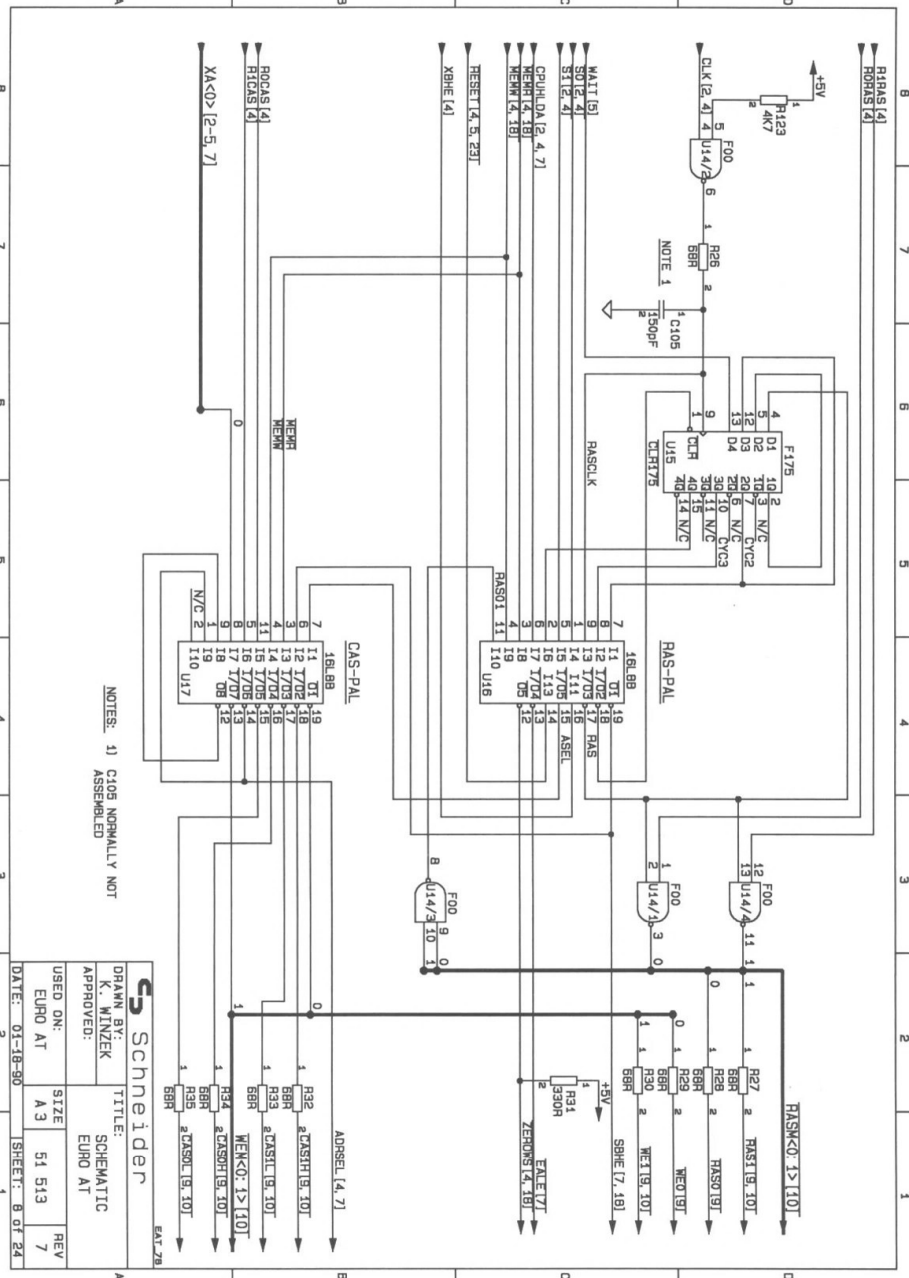




**Schneider**  
 DRAWN BY: K. WINZEK  
 APPROVED: \_\_\_\_\_  
 USED ON: EURO AT  
 DATE: 01-18-90

TITLE: SCHEMATIC  
 EURO-AT  
 SIZE: A3  
 REV: 7  
 SHEET: 9 OF 24

NOTES: 1) U26 .. U29 NORMALLY NOT ASSEMBLED  
 MEMORY I



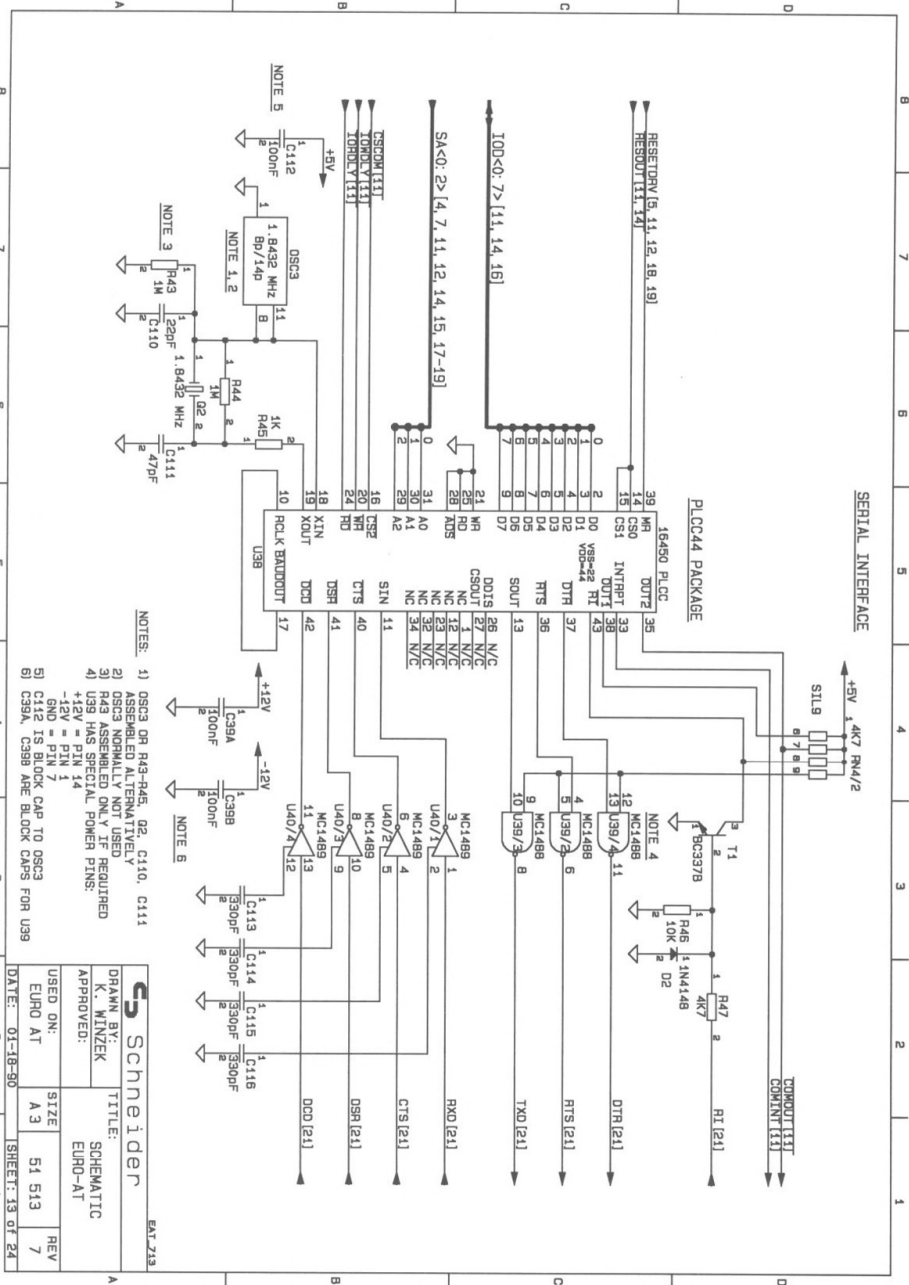
**Schneider**  
 DRAWN BY: K. WINZEK  
 APPROVED: \_\_\_\_\_  
 USED ON: EURO AT  
 DATE: 01-18-90

TITLE: SCHEMATIC  
 EURO AT  
 SIZE: A3  
 REV: 7  
 SHEET: 8 OF 24

NOTES: 1) C108 NORMALLY NOT ASSEMBLED

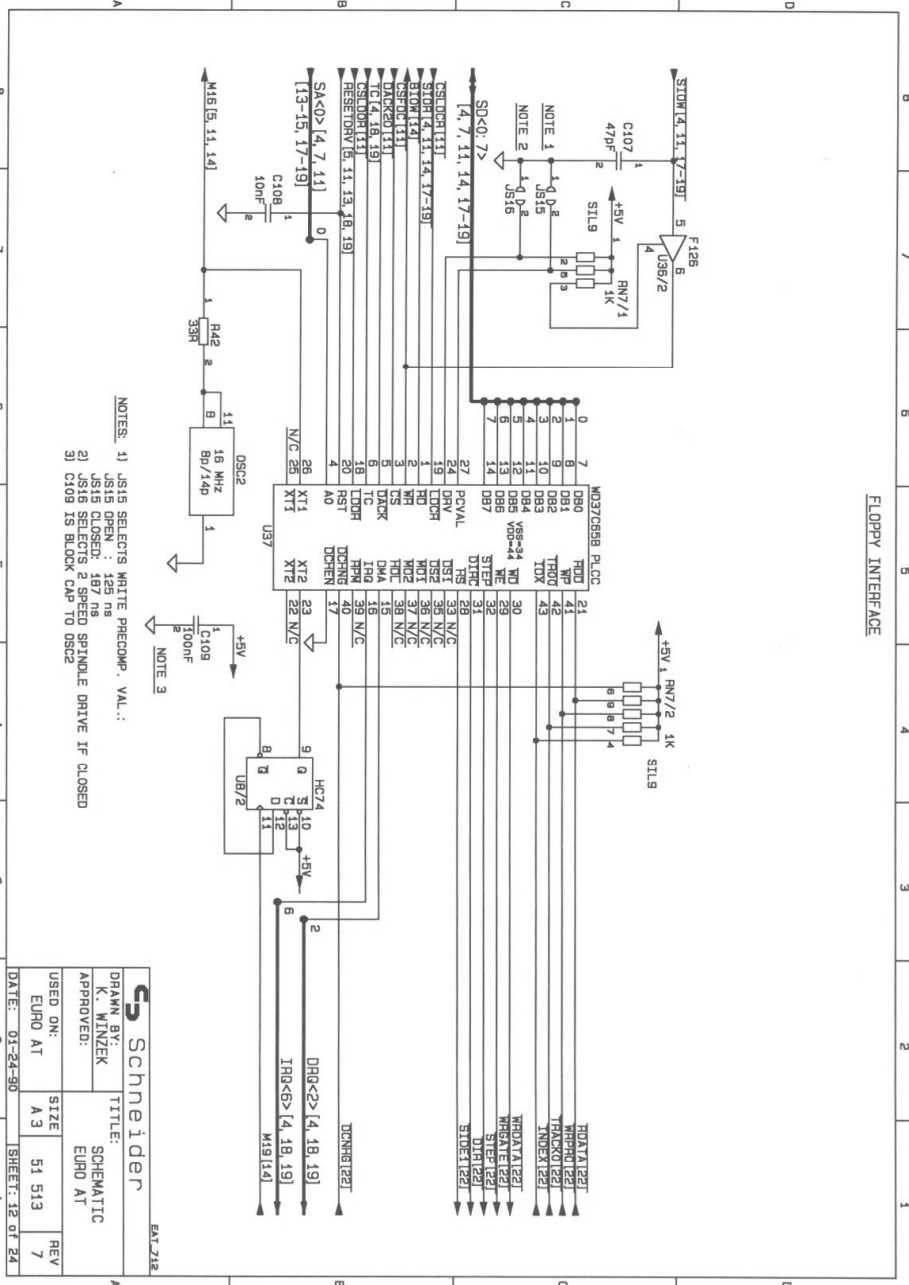






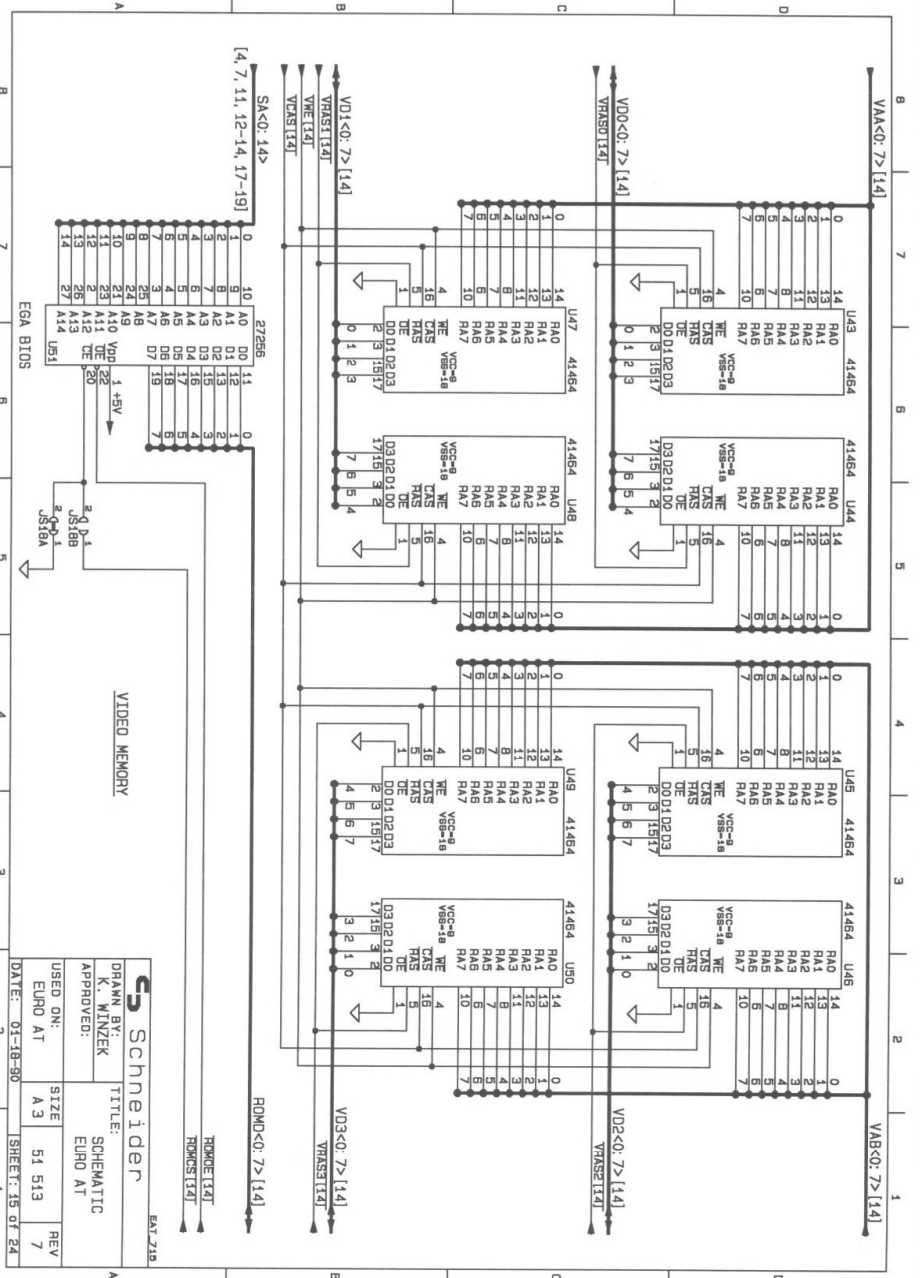
NOTES: 1) 09G3 OR R43-R45, 02, C110, C111  
 2) ASSEMBLED ALTERNATIVELY  
 3) 09G3 NORMALLY NOT USED  
 4) U39 HAS SPECIAL POWER PINS:  
 +12V = PIN 14  
 -12V = PIN 7  
 GND = PIN 1  
 5) C112 IS BLOCK CAP TO 09G3 FOR U39  
 6) C39A, C39B ARE BLOCK CAPS FOR U39

<b>Schneider</b>		EAT 219	
DRAWN BY:	K. MINZEK	TITLE:	SCHEMATIC
APPROVED:			EURO-AT
USED ON:	EURO AT	SIZE:	A3
DATE:	01-24-90	SHEET:	13 OF 24



NOTES: 1) J516 SELECTS WRITE PRECOMP. VAL.:  
 J516 OPEN : 125 ns  
 J516 CLOSED: 187 ns  
 2) J516 SELECTS 2 SPEED SPINDLE DRIVE IF CLOSED  
 3) C109 IS BLOCK CAP TO 09G2

<b>Schneider</b>		EAT 212	
DRAWN BY:	K. MINZEK	TITLE:	SCHEMATIC
APPROVED:			EURO AT
USED ON:	EURO AT	SIZE:	A3
DATE:	01-24-90	SHEET:	18 OF 24



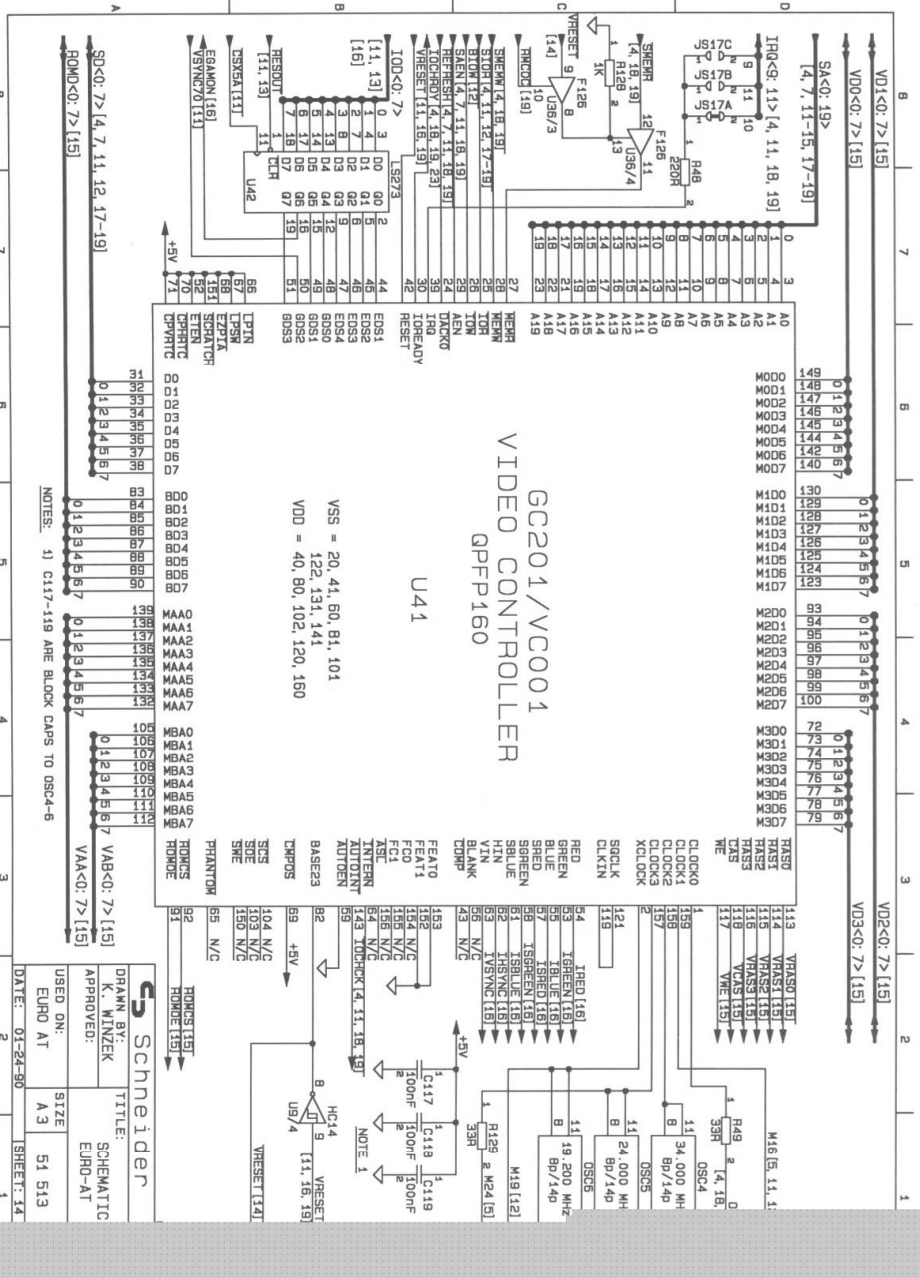
**Schneider** REV 7

DRAWN BY: K. MINZEK  
 APPROVED: EURO AT  
 USED ON: EURO AT  
 DATE: 01-28-90

TITLE: SCHEMATIC  
 SHEET: 15 OF 24

SIZE: A3  
 REV: 7

REV 7



**Schneider** REV 14

DRAWN BY: K. MINZEK  
 APPROVED: EURO AT  
 USED ON: EURO AT  
 DATE: 01-24-90

TITLE: SCHEMATIC  
 SHEET: 14

SIZE: A3  
 REV: 14

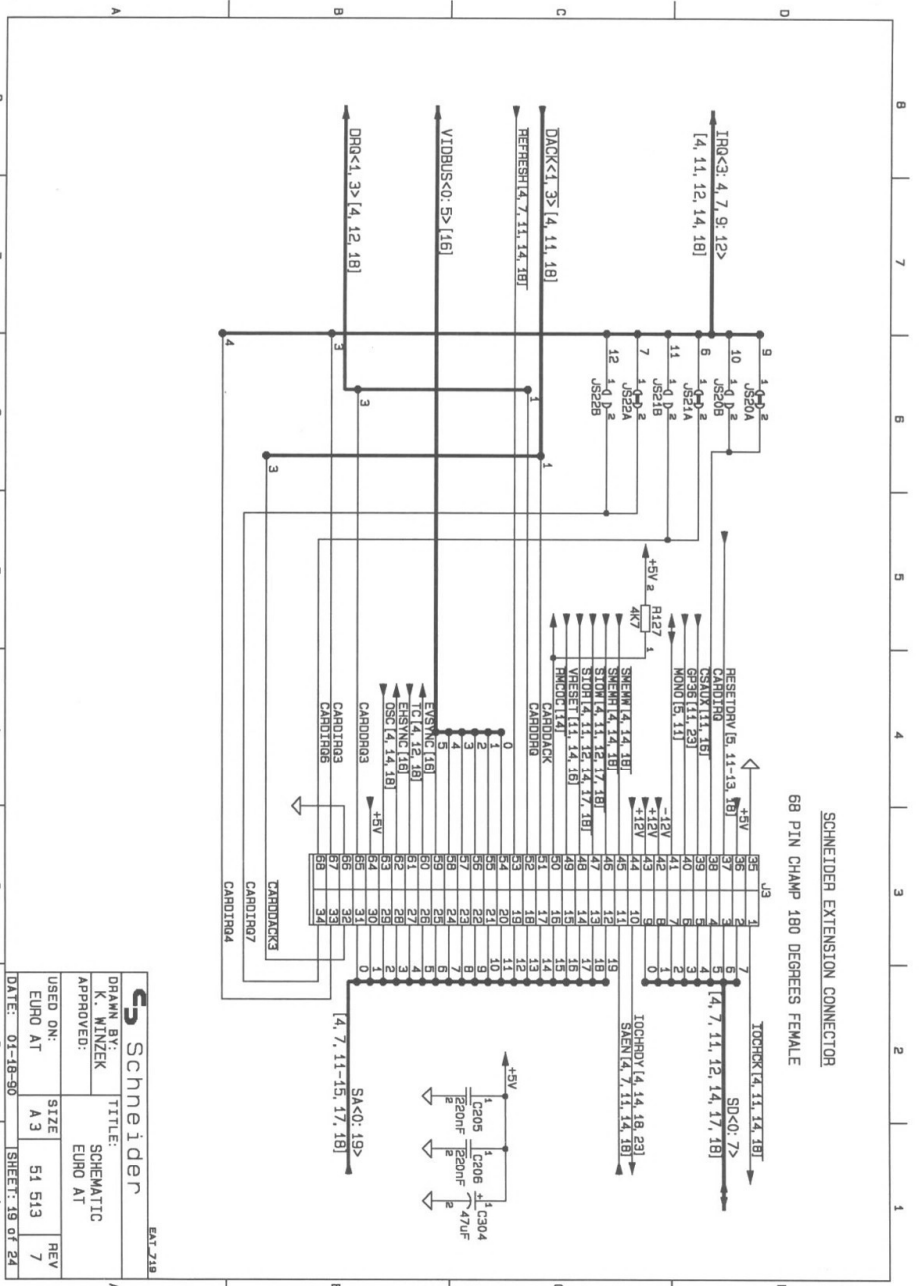
REV 14

GC201/VCO01  
 QFP160  
 U41

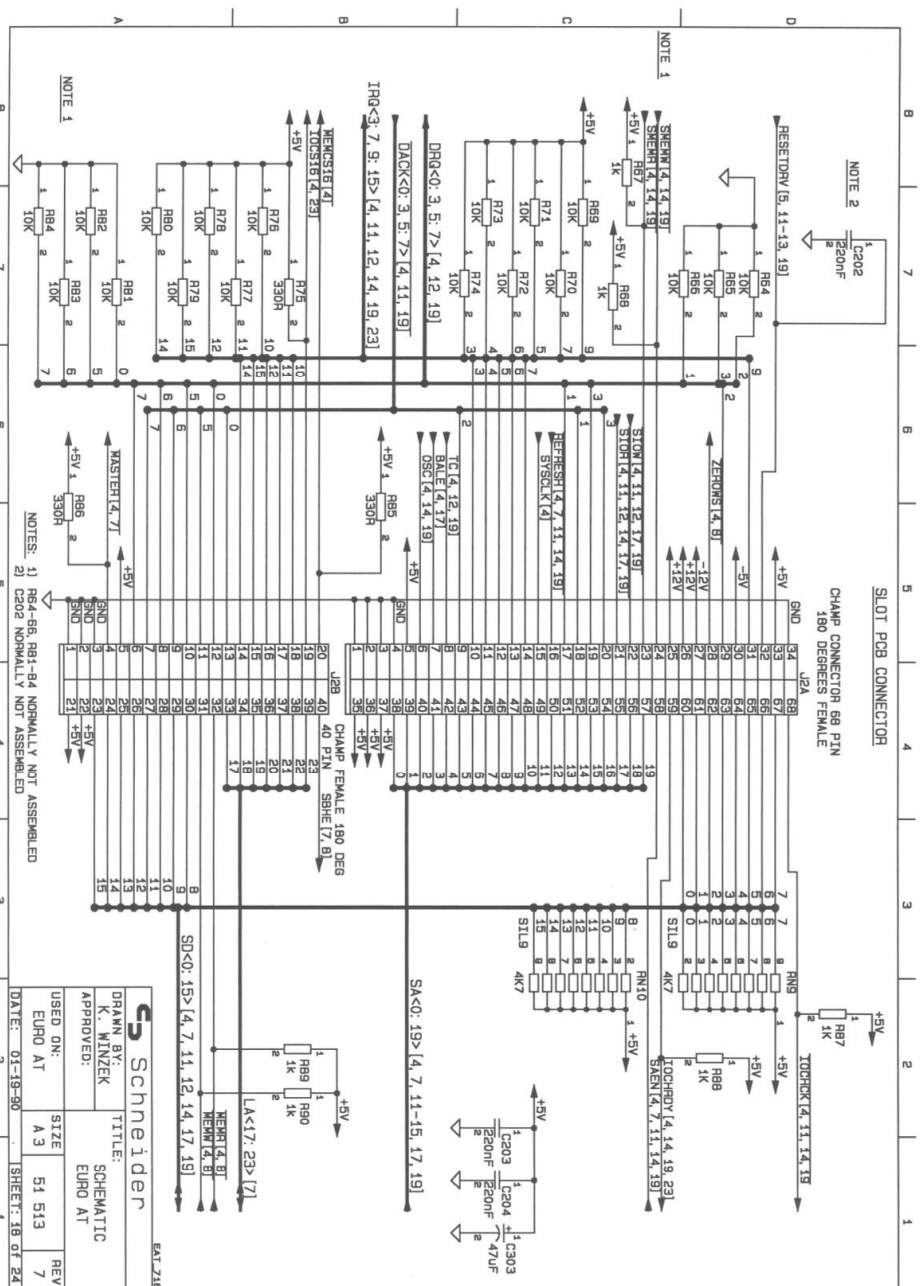
VSS = 20, 41, 60, 81, 101  
 122, 131, 141  
 VDD = 40, 80, 102, 120, 150

NOTES: 1) C117-119 ARE BLOCK CAPS TO OSC4-6

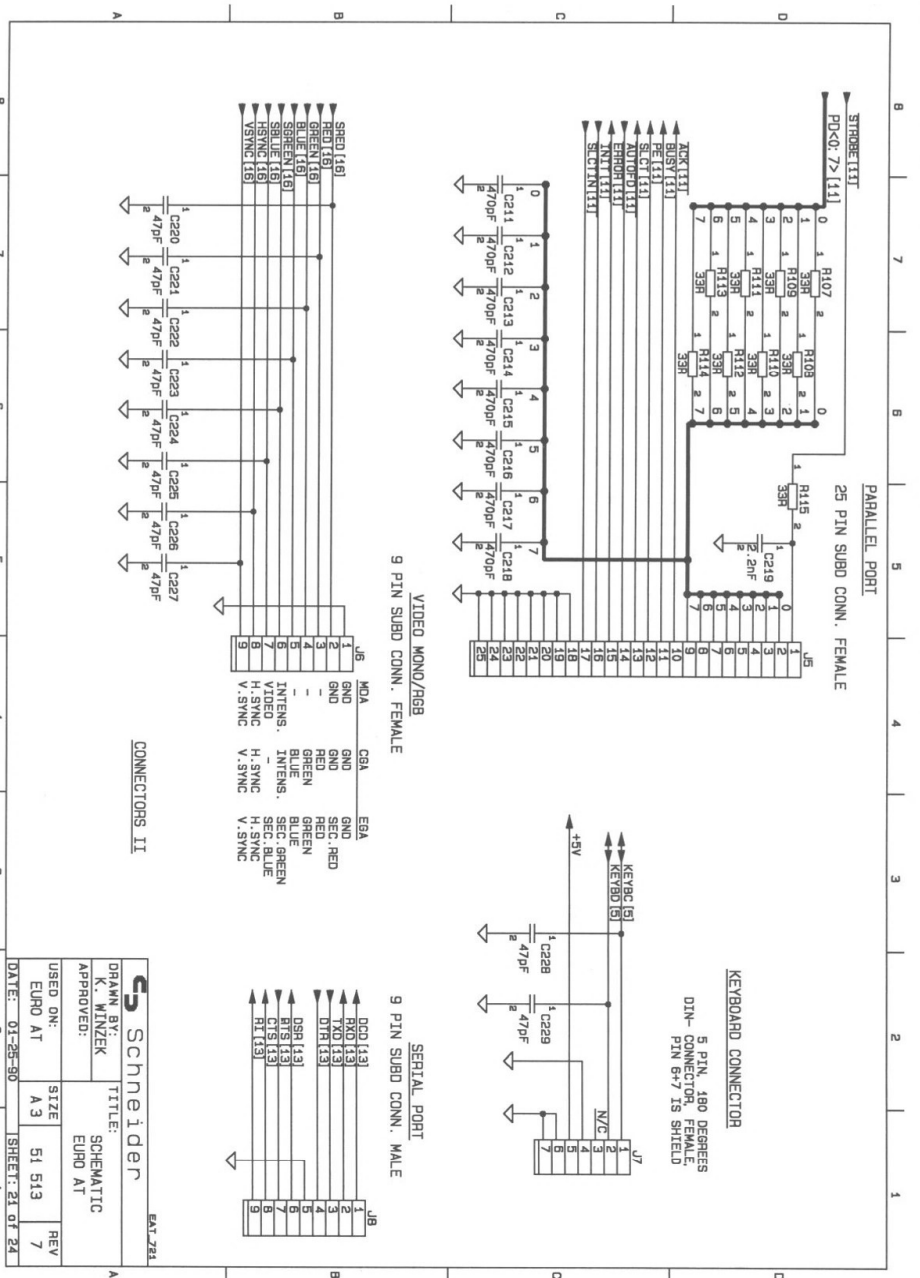




Schneider		EAT 218	
DRAWN BY:	K. WINZEK	TITLE:	SCHEMATIC
APPROVED:		USED ON:	EURO AT
DATE:	01-18-90	SIZE:	A3
		REV:	7
		SHEET:	19 of 24

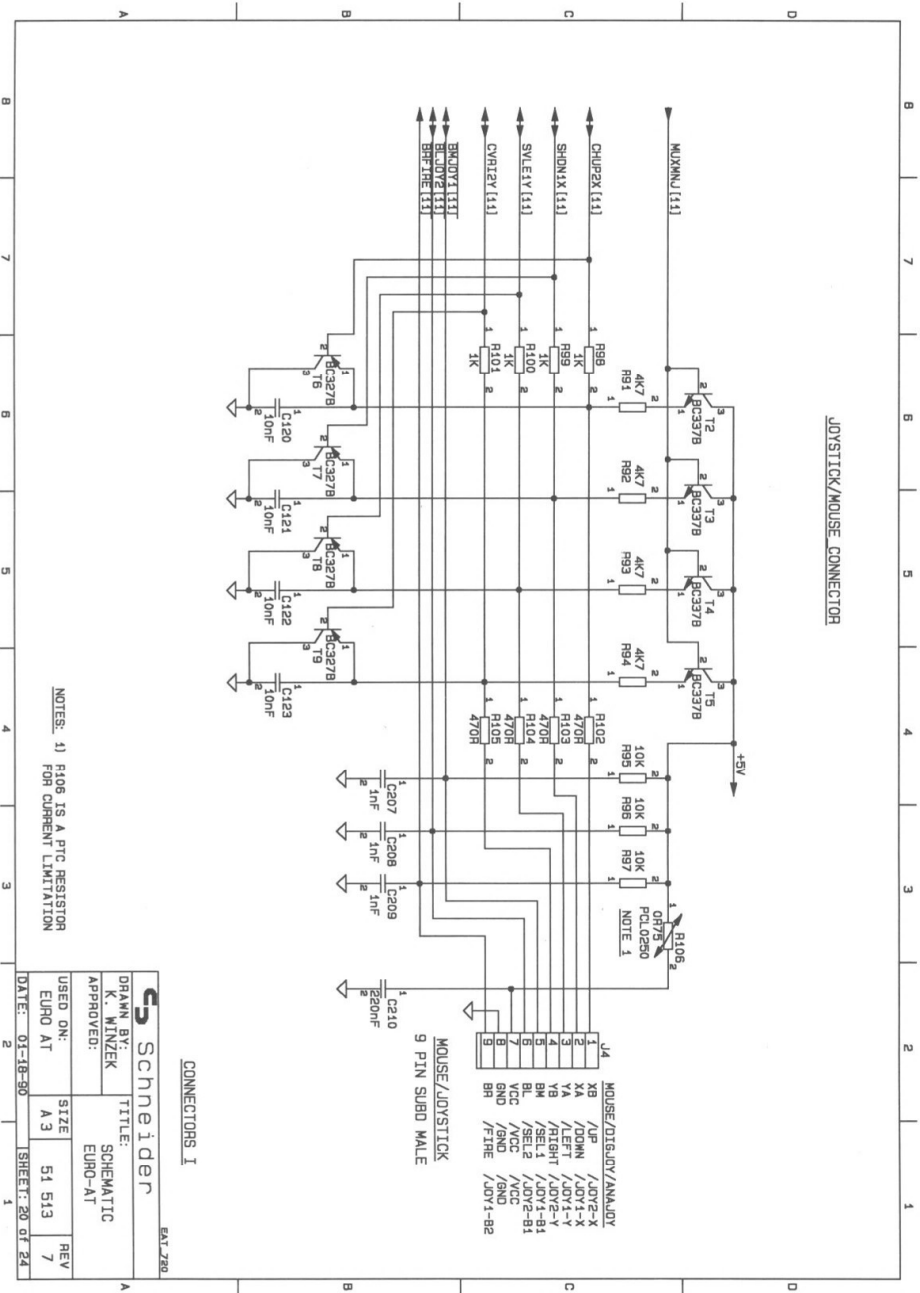


Schneider		EAT 218	
DRAWN BY:	K. WINZEK	TITLE:	SCHEMATIC
APPROVED:		USED ON:	EURO AT
DATE:	01-19-90	SIZE:	A3
		REV:	7
		SHEET:	18 of 24



**Schneider** EAT 281

DRAWN BY: K. MINZEK  
 APPROVED: \_\_\_\_\_  
 TITLE: SCHEMATIC EURO AT  
 USED ON: EURO AT SIZE A3 51 513 REV 7  
 DATE: 01-18-90 SHEET: 21 OF 24



**Schneider** EAT 280

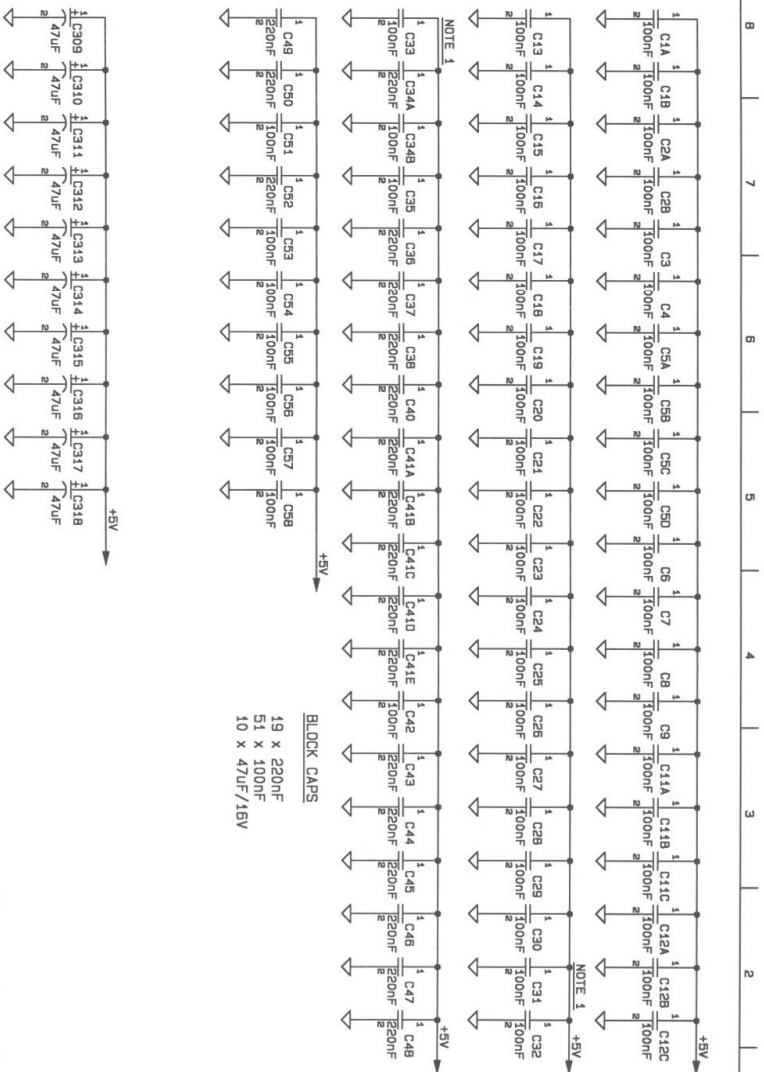
DRAWN BY: K. MINZEK  
 APPROVED: \_\_\_\_\_  
 TITLE: SCHEMATIC EURO-AT  
 USED ON: EURO AT SIZE A3 51 513 REV 7  
 DATE: 01-18-90 SHEET: 20 OF 24



REVISIONS		DATE	APPROVED
LTR	DESCRIPTION		
0	FIRST DRAWING	07-31-89	
1	PREPRODUCTION RELEASE	11-23-89	K. WINZEK
2	NEW C207	01-12-90	K. WINZEK

DRAWING FILES: \_\_\_\_\_ CONTENTS:  
 SLT\_21 THIS SHEET  
 SLT\_22 SLOT PCB CONNECTOR  
 SLT\_23 SLOT I  
 SLT\_24 SLOT II

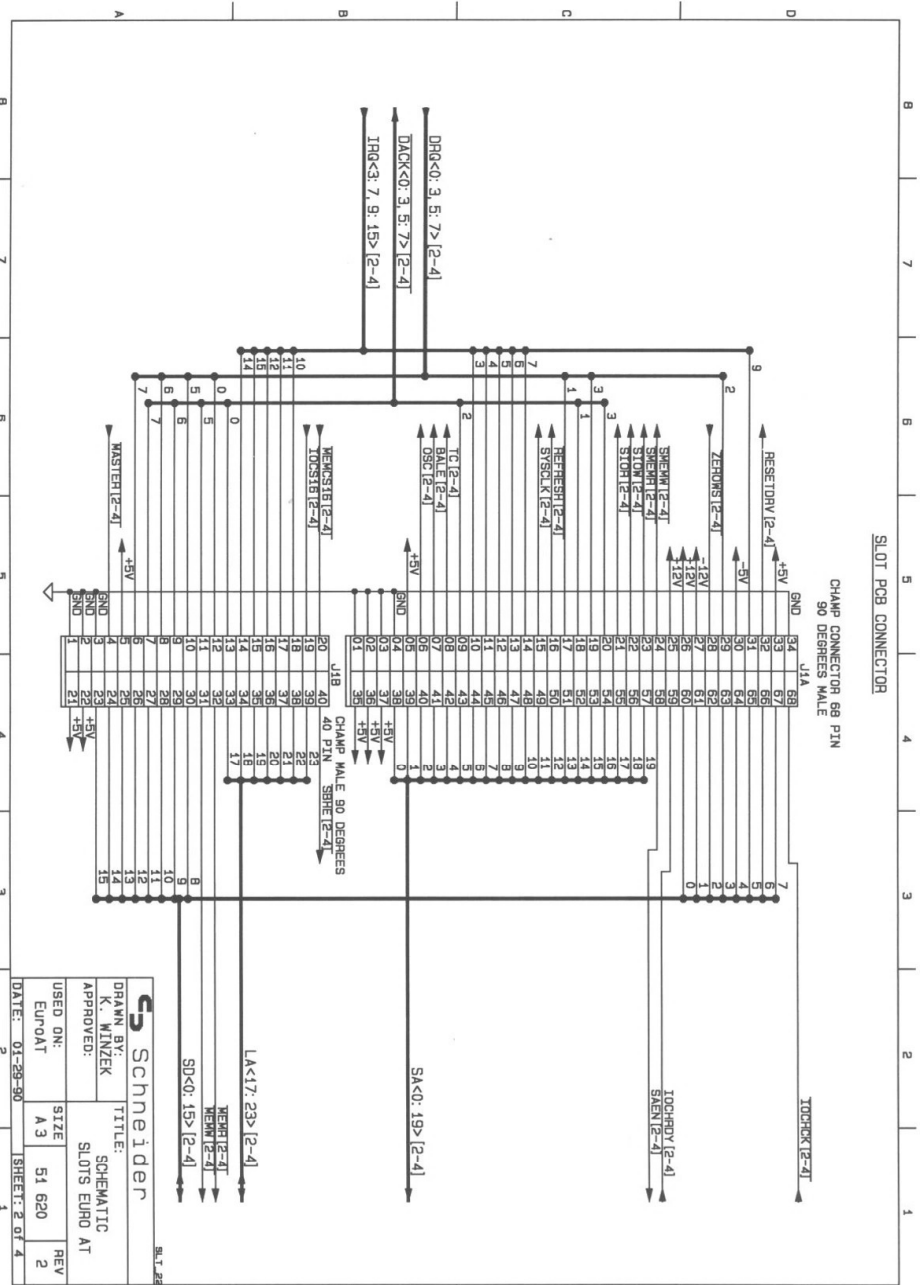
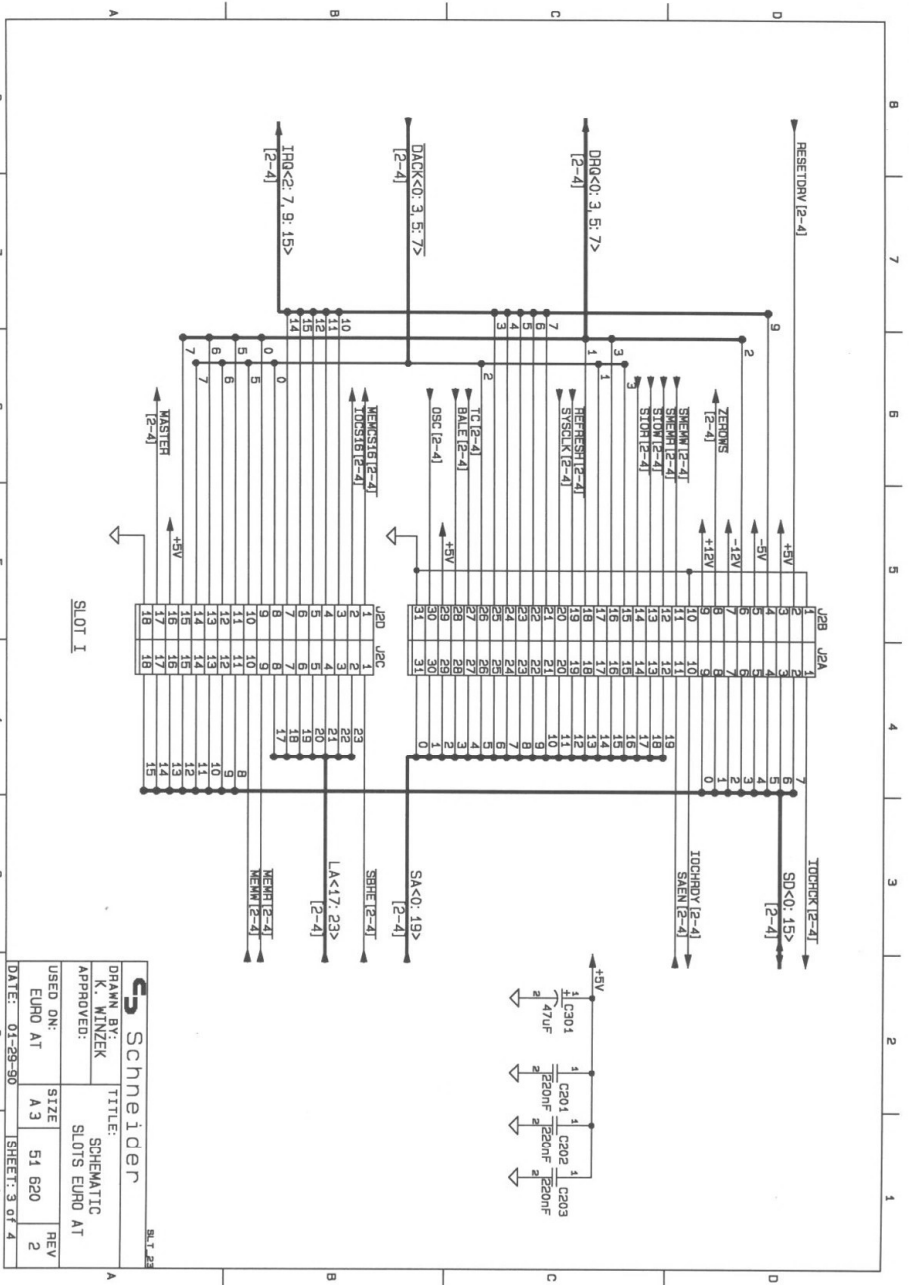
<b>S</b> Schneider		REV. 24	
DRAWN BY: K. WINZEK	TITLE: SCHEMATIC	SIZE A3	REV 2
APPROVED:	SLOTS EURO AT	EUP/AT	
USED ON:		DATE: 01-29-90	SHEET: 1 OF 4



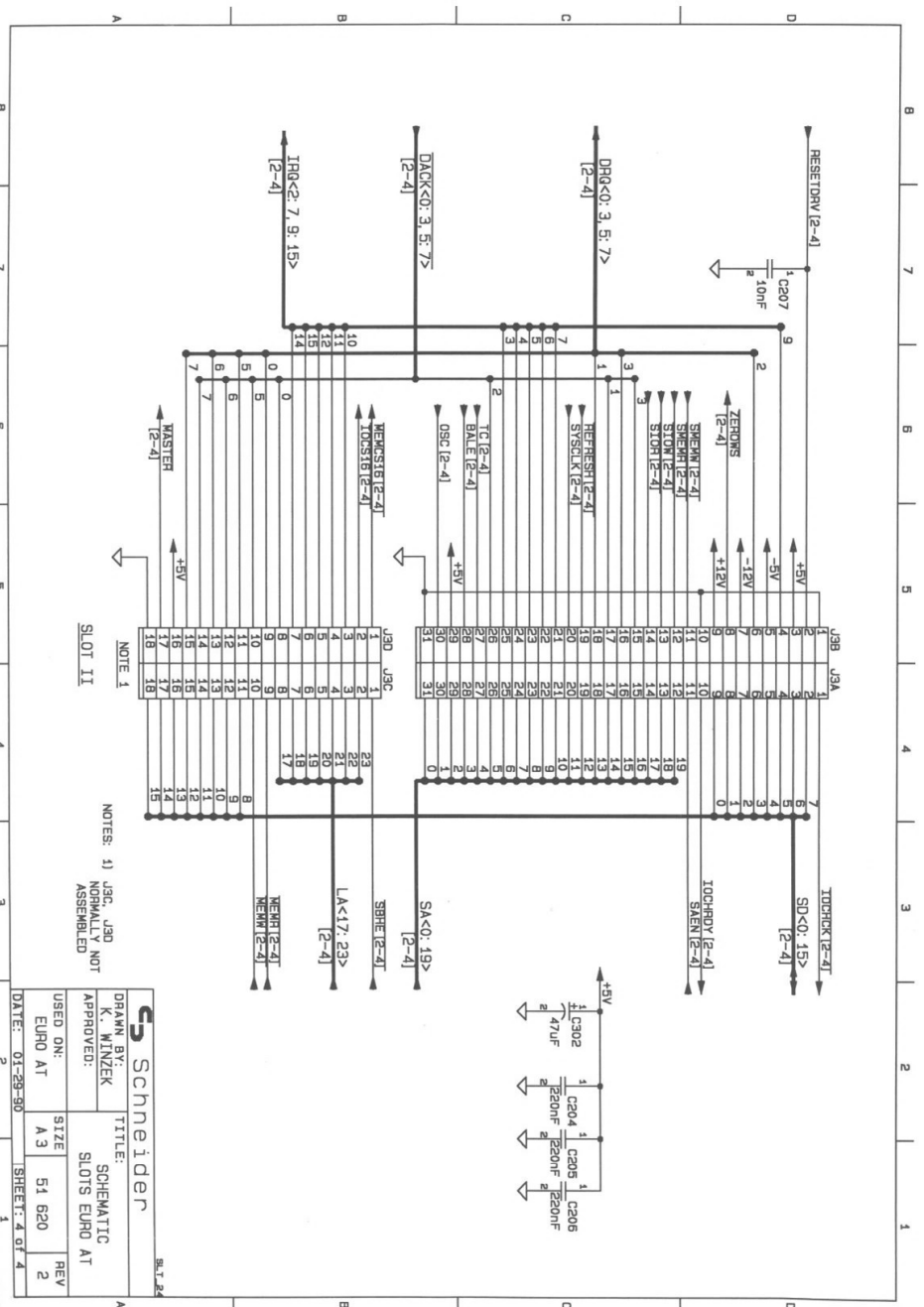
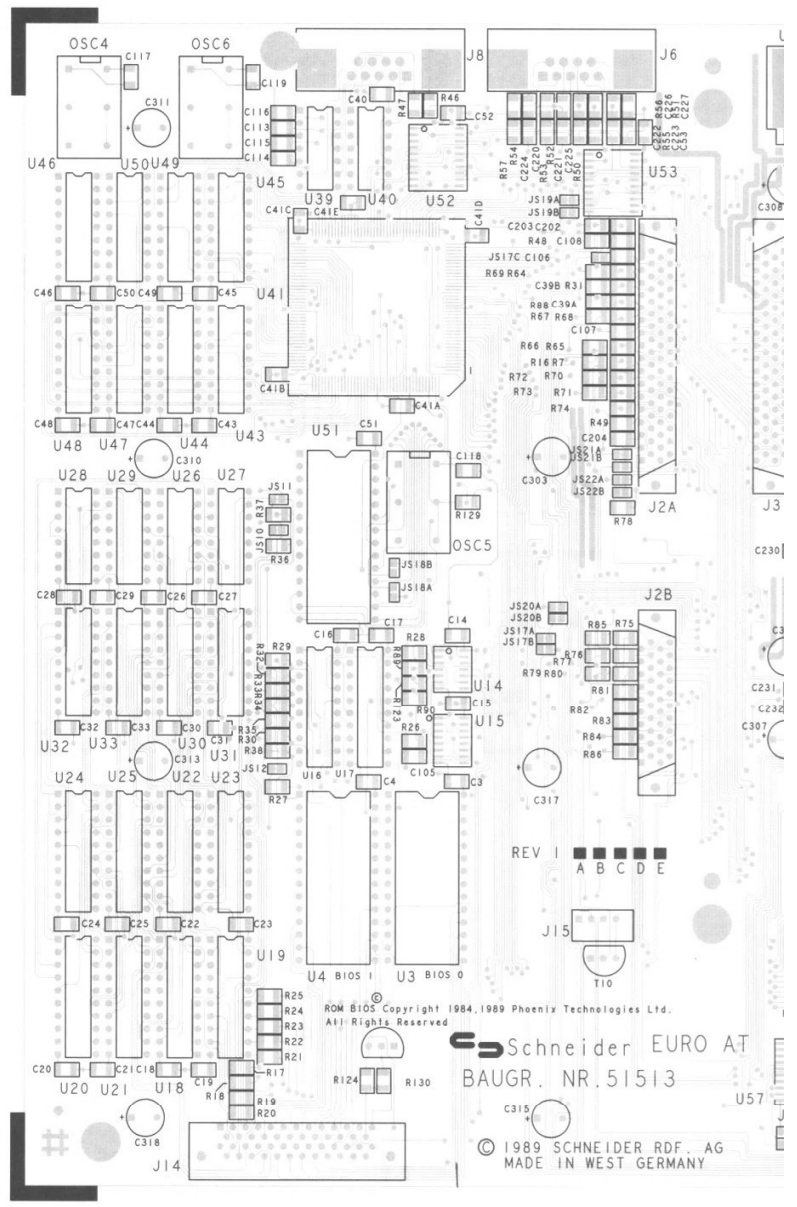
NOTES: 1) C30, C33 NORMALLY NOT ASSEMBLED

<b>S</b> Schneider		EXT. 724	
DRAWN BY: K. WINZEK	TITLE: SCHEMATIC	SIZE A3	REV 7
APPROVED:	EURO AT	DATE: 01-18-90	SHEET: 24 OF 24
USED ON:			





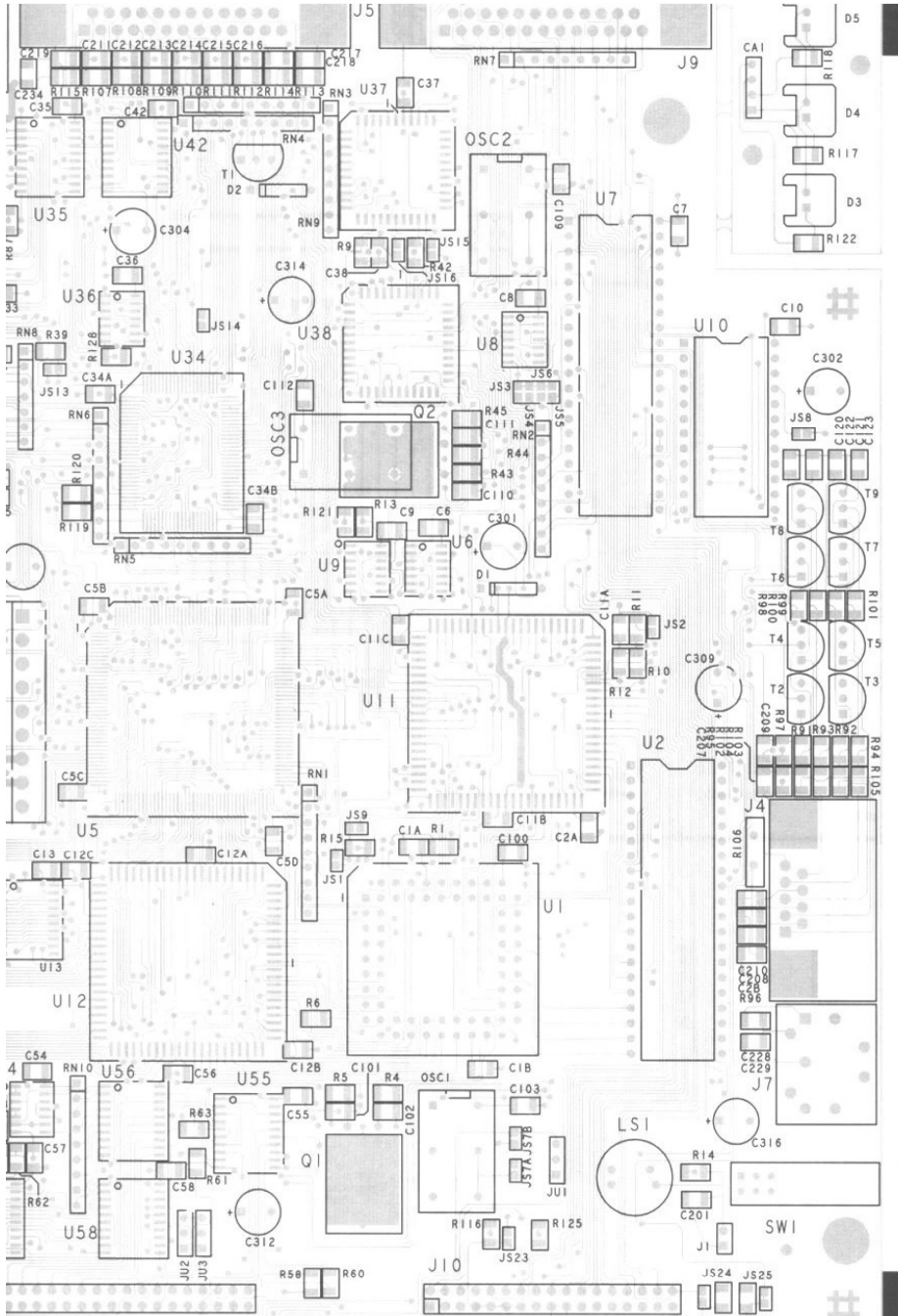
Component side



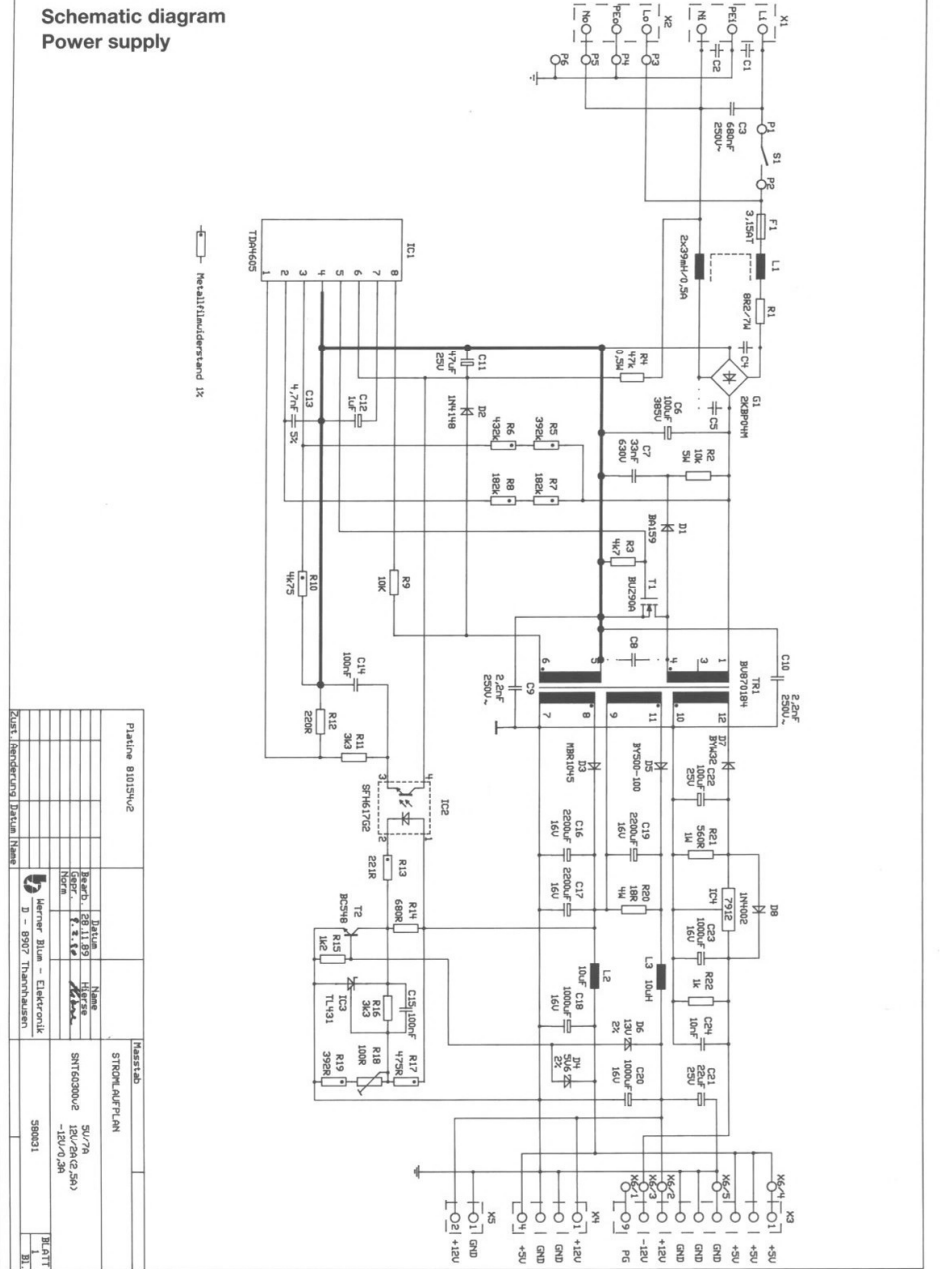
NOTE 1

NOTES: 1) J9C, J9D NORMALLY NOT ASSEMBLED

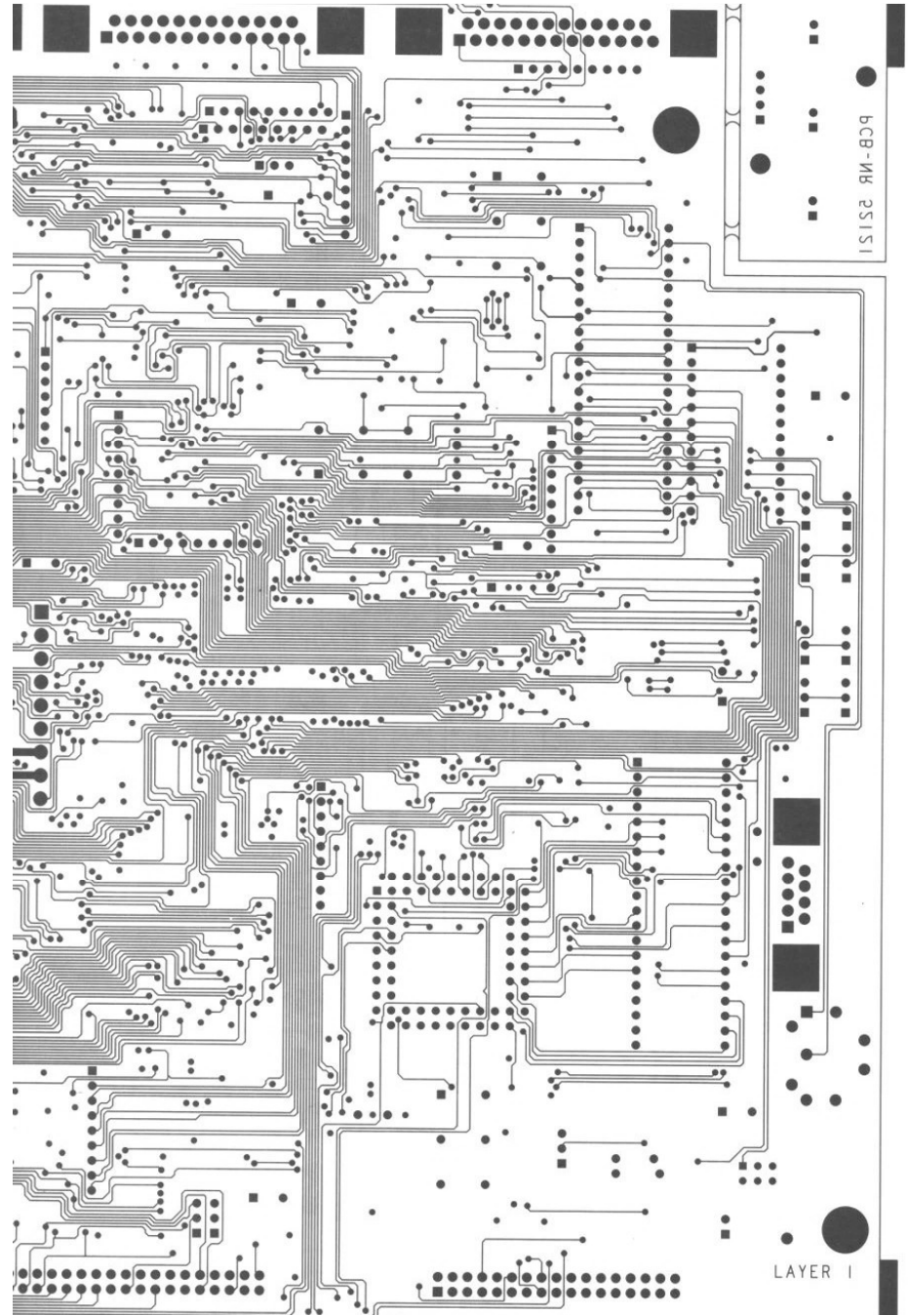
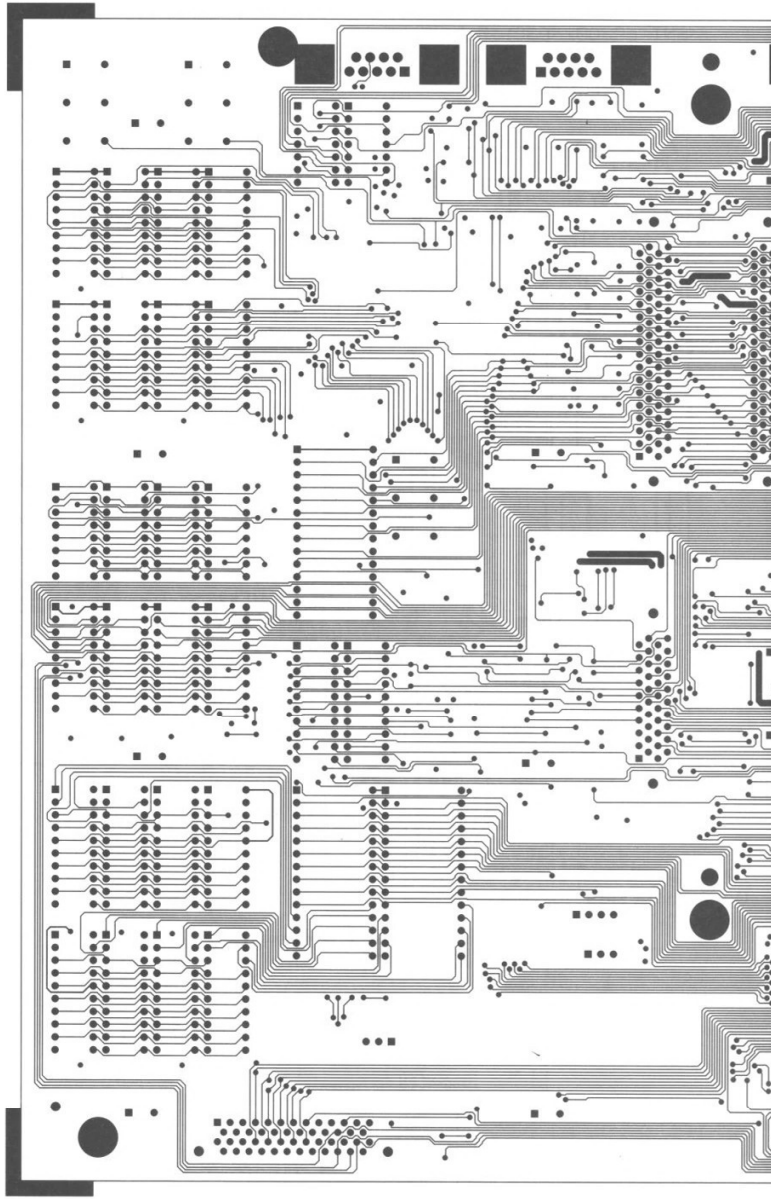
		TITLE: SCHEMATIC SLOTS EURO AT	
DRAWN BY: K. WINZEK		APPROVED:	
USED ON: EURO AT	SIZE: A3	SHEET: 4 of 4	REV: 2
DATE: 01-29-90		DATE:	



Schematic diagram  
Power supply

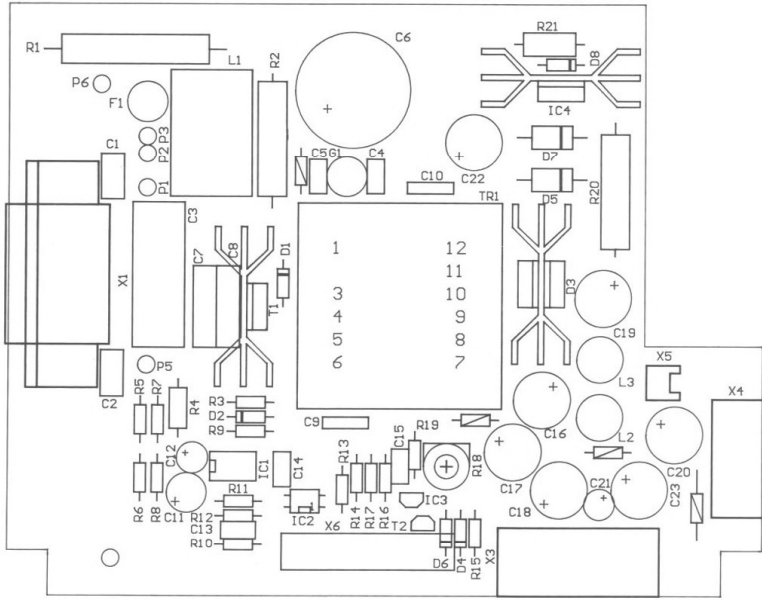


Soldering side



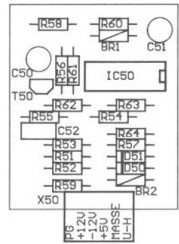
**Power supply  
Component side**

SNT 60300/60301 Schneider  
Ident.-Nr.: 810154v2  
Grösse: 130\*166 mm

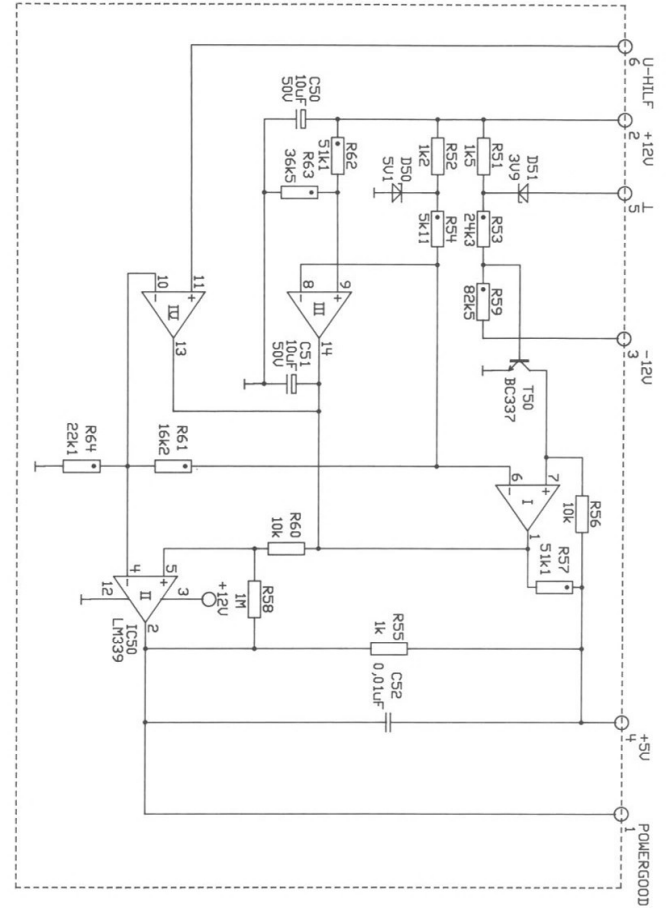


**Power good modul  
Component side**

Modul Power-Good fuer SNT 60301/60301  
Ident.-Nr.: 810155  
Grösse: 38\*15 mm



**Schematic diagram  
Power good modul**



Modul 810155		Nasstab	
		STROMLAUFPLAN	
Bearb.	Datum	Name	
Gepr.	01.12.89	Härner	
Norm	3.2.89	M.A.A.	
Zust., Änderung		Datum Name	
D - 8907 Thannhausen		Werner Blum - Elektronik	
Power-Good-Modul fuer SNT60301 SNT90301		BLATT 1	
		Bl.	

Zust., Änderung | Datum | Name |

Ersatzteilliste für Platine Best. Euro AT  
Parts List for P.C.B. Euro AT

Best.-Nr. Part.-No.	Bezeichnung	Description	Zeich.-Pos. Ref.-No.	Preisgruppe
50 509 00	IC 80826 CPU 12 MHz	IC 80826 CPU 12 MHz	U 1	F 4
50 444 00	IC EPROM 256K prog.	IC EPROM 256K prog.	U 3	C 9
50 445 00	IC EPROM 256K prog.	IC EPROM 256K prog.	U 4	C 9
50 776 00	IC GC 101A CPU Contr.	IC GC 101A CPU Contr.	U 5	F 5
51 586 00	IC 7406 S014	IC 7406 S014	U 6	A 9
50 243 00	IC 9042 prog.	IC 9042 prog.	U 7	C 3
51 594 00	IC 74 HC 74 S014	IC 74 HC 74 S014	U 8	A 8
51 592 00	IC 74 HC 14 S014	IC 74 HC 14 S014	U 9	A 9
50 177 00	IC DS 1287	IC DS 1287	U 10	D 4
50 046 00	IC GC 102A PLCC	IC GC 102A PLCC	U 11, 12	D 7
51 587 00	IC 74 ALS 245 S020	IC 74 ALS 245 S020	U 13	B 1
51 588 00	IC 74 F 00 S014	IC 74 F 00 S014	U 14	A 7
51 590 00	IC 74 F 175 S016	IC 74 F 175 S016	U 15	A 7
50 334 00	IC HAL 16L8B DIL RAS-PAL	IC HAL 16L8B DIL RAS-PAL	U 16	B 8
50 333 00	IC HAL 16L8B DIL CAS-PAL	IC HAL 16L8B DIL CAS-PAL	U 17	B 8
50 153 00	IC DRAM 256Kx4	IC DRAM 256Kx4	U 18-25	E 9
50 773 00	IC BIG JIM TC110 G008	IC BIG JIM TC110 G008	U 34	D 1
51 319 00	IC 74 LS 245 S020	IC 74 LS 245 S020	U 35	A 7
51 589 00	IC 74 F 126 S014	IC 74 F 126 S014	U 36	A 6
50 105 00	IC WD 37C65B-JM00	IC WD 37C65B-JM00	U 37	D 5
50 827 00	IC 16 C 450 PLCC 44	IC 16 C 450 PLCC 44	U 38	C 6
50 120 00	IC MC 1488	IC MC 1488	U 39	A 5
50 121 00	IC MC 1489	IC MC 1489	U 40	A 5
50 147 00	IC GC 201	IC GC 201	U 41	F 2
51 596 00	IC 74 LS 273 S020	IC 74 LS 273 S020	U 42	A 6
50 110 00	IC DRAM 64Kx4 120nS	IC DRAM 64Kx4 120nS	U 43-50	D 4
50 447 00	IC EPROM 256K prog.	IC EPROM 256K prog.	U 51	C 9
51 591 00	IC 74 F 244 S020	IC 74 F 244 S020	U 52	A 7
51 593 00	IC 74 HC 373 S020	IC 74 HC 373 S020	U 53	A 7
51 595 00	IC 74 LS 10 S014	IC 74 LS 10 S014	U 54	A 5
51 321 00	IC 74 LS 244 S020	IC 74 LS 244 S020	U 55, 58	B 0
51 329 00	IC 74 LS 245 S020	IC 74 LS 245 S020	U 56, 57	A 7
50 238 00	IC 7905 T0220	IC 7905 T0220	U 59	A 6

Ersatzteilliste für Platine Best. Euro AT  
Parts List for P.C.B. Euro AT

Best.-Nr. Part.-No.	Bezeichnung	Description	Zeich.-Pos. Ref.-No.	Preisgruppe
50 358 00	Transistor BC 337 B	Transistor BC 337 B	T 1-5	A 6
51 042 00	Transistor BC 327 B	Transistor BC 327 B	T 6-9	A 2
50 358 00	Transistor BC 337 B	Transistor BC 337 B	T 10, 11	A 6
50 338 00	Diode 1 N 4148	Diode 1 N 4148	D 1, 2	A 2
50 325 00	Quarz 14,31818 MHz HC-18U	Quartz 14.31818 MHz HC-18U	Q 1	B 3
50 312 00	Quarz 1,8432 MHz HC-18U	Quartz 1.8432 MHz HC-18U	Q 2	B 5
50 313 00	Oszillator 16 MHz	Oscillator 16 MHz	OSC 2	C 3
50 337 00	Oszillator 34 MHz	Oscillator 34 MHz	OSC 4	C 0
50 315 00	Oszillator 24 MHz	Oscillator 24 MHz	OSC 5	C 0
50 314 00	Oszillator 19, 20 MHz	Oscillator 19, 20 MHz	OSC 6	C 0
50 316 00	R-Netzwerk 8x10K	R, Network 8x10K	RN 1, 5	A 3
50 319 00	R-Netzwerk 8x4K7	R, Network 8x4K7	RN 2, 4, 9, 10	A 3
50 317 00	R-Netzwerk 8x1K	R, Network 8x1K	RN 3, 7	A 3
51 050 00	R-Netzwerk 8x33K	R, Network 8x33K	RN 6	A 3
50 320 00	R-Netzwerk 6x680K	R, Network 6x680K	RN 8	A 2
50 321 00	PTC PCL 0250,0	PTC PCL 0250,0	R 106	B 0
51 717 00	Resettaste	Pushbutton, reset	SW 1	A 9
50 332 00	Piepser	Buzzer	LS 1	A 8
51 469 00	LED-Kabel 4pol.	Cabel, LED 4-pin	CA 1	A 9
51 520 00	Steckverbindung 40pol.	Socket 40-pin	J 2 B	B 2
51 521 00	Steckverbindung 68pol.	Socket 68-pin	J 2 A, J 3	B 4
51 385 00	Buchse SUB-D 9pol.	Socket SUB-D 9-pin	J 4	A 9
50 133 00	Buchse SUB-D 25pol.	Socket SUB-D 25-pin	J 5	B 2
50 132 00	Buchse SUB-D 9pol.	Socket SUB-D 9-pin	J 6	B 0
51 140 00	Buchse Dioden 5pol.	Socket 5-pin	J 7	A 9
50 131 00	Buchse SUB-D 9pol.	Socket SUB-D 9-pin	J 8	A 9
50 133 00	Buchse SUB-D 25pol.	Socket SUB-D 25-pin	J 9	B 2
51 569 00	Stiftleiste RM 26pol.	Socket RM 26-pin	J 10	A 7
51 431 00	Stiftleiste 9pol.	Socket 9-pin	J 11	A 5
51 085 00	Stiftleiste 40pol.	Socket 40-pin	J 13	A 7
51 616 00	Steckverbindung Leiterplatine	Socket P.C.B.	J 15	A 5

**CAUTION:**  
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.  
Ref.: IEC/74 (Central Office) 104.

## Error Code Table for AT 286

The "DIAGNP OUTPUT" codes are placed at the diagnostic status port to indicate tests in progress and failed tests to someone with hardware which can detect the output. If the FAILBEEP option is selected, the "BEEP CODES" are announced on the speaker if and only if a fatal failure is detected. For instance, "2-1-4" (a burst of two beeps, a single beep, a burst of four beeps) indicates a failure of bit 3 in the first 64K of RAM. Both set of codes are only used prior to screen initialization and screen retrace verification.

Once the screen is believed operable, any diagnostic reporting is via screen messages, except if MANLOOP EQU TRUE and the jumpers say to loop on POST. In this case, it is assumed that no video adapter is attached and some additional errors will be reported via DIAGNP and the speaker.

DIAGNP OUTPUT	BEEP CODES	DESCRIPTION OF TEST OR FAILURE
01h ;		80286 register test in-progress
02h ;	1-1-3	CMOS write/read test in-progress or failure
03h ;	1-1-4	BIOS ROM checksum in-progress or failure
04h ;	1-2-1	Programmable Interval Timer test in-progress or failure
05h ;	1-2-2	DMA initialization in-progress or failure
06h ;	1-2-3	DMA page register write/read test in-progress or fail
07h ;	1-2-4	JIM port address offset determination in-progress or not found
08h ;	1-3-1	RAM refresh verification in-progress or failure
09h ;		1st 64K RAM test in-progress
0Ah ;	1-3-3	1st 64K RAM chip or data line failure - multi-bit
0Bh ;	1-3-4	1st 64K RAM odd/even logic failure
0Ch ;	1-4-1	1st 64K RAM address line failure
0Dh ;	1-4-2	1st 64K RAM parity test in-progress or failure
0Eh ;	1-4-3	invalid PBC ID ;V2.00
10h ;	2-1-1	1st 64K RAM chip or data line failure - bit 0
11h ;	2-1-2	1st 64K RAM chip or data line failure - bit 1
12h ;	2-1-3	1st 64K RAM chip or data line failure - bit 2
13h ;	2-1-4	1st 64K RAM chip or data line failure - bit 3
14h ;	2-2-1	1st 64K RAM chip or data line failure - bit 4
15h ;	2-2-2	1st 64K RAM chip or data line failure - bit 5
16h ;	2-2-3	1st 64K RAM chip or data line failure - bit 6
17h ;	2-2-4	1st 64K RAM chip or data line failure - bit 7
18h ;	2-3-1	1st 64K RAM chip or data line failure - bit 8
19h ;	2-3-2	1st 64K RAM chip or data line failure - bit 9
1Ah ;	2-3-3	1st 64K RAM chip or data line failure - bit A
1Bh ;	2-3-4	1st 64K RAM chip or data line failure - bit B
1Ch ;	2-4-1	1st 64K RAM chip or data line failure - bit C
1Dh ;	2-4-2	1st 64K RAM chip or data line failure - bit D
1Eh ;	2-4-3	1st 64K RAM chip or data line failure - bit E
1Fh ;	2-4-4	1st 64K RAM chip or data line failure - bit F
20h ;	3-1-1	slave DMA register test in-progress or failure
21h ;	3-1-2	master DMA register test in-progress or failure
22h ;	3-1-3	master interrupt mask register test in-progress or fail
23h ;	3-1-4	slave interrupt mask register test in-progress or fail
25h ;		interrupt vector loading in-progress
27h ;	3-2-4	keyboard controller test in-progress or failure
28h ;		CMOS power-fail and checksum checks in-progress
29h ;		CMOS config info validation in-progress
2Ah ;	3-3-3	monitor type determination in-progress or failure
2Bh ;	3-3-4	screen memory test in-progress or failure
2Ch ;	3-4-1	screen initialization in-progress or failure
2Dh ;	3-4-2	screen retrace tests in-progress or failure
2Eh ;		search for video ROM in-progress
30h ;		screen believed operable:

30h ; screen believed running w/ video ROM  
 31h ; monochromatic screen believed operable  
 32h ; 40-column color screen believed operable  
 33h ; 80-column color screen believed operable

The following codes are reported via DIAGNP and the speaker only if MANLOOP EQU TRUE and the "manufacturing jumper" indicates loop on POST. Otherwise, these errors are reported via the screen and POST continues. Use of the manufacturing jumper requires working correctly configured CMOS.

34h ; 4-2-1 timer tick interrupt test in-progress or failure  
 35h ; 4-2-2 shutdown test in-progress or failure  
 36h ; 4-2-3 gate A20 failure  
 37h ; 4-2-4 unexpected interrupt in protected mode  
 38h ; 4-3-1 RAM test in-progress or failure above address 0FFFFh  
 3Ah ; 4-3-3 Interval timer channel 2 test in-progress or failure  
 3Bh ; 4-3-4 Time-Of-Day clock test in-progress or failure  
 3Ch ; 4-4-1 Serial port test test in-progress or failure  
 3Dh ; 4-4-2 Parallel port test test in-progress or failure  
 3Eh ; 4-4-3 Math Coprocessor test in-progress or failure

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