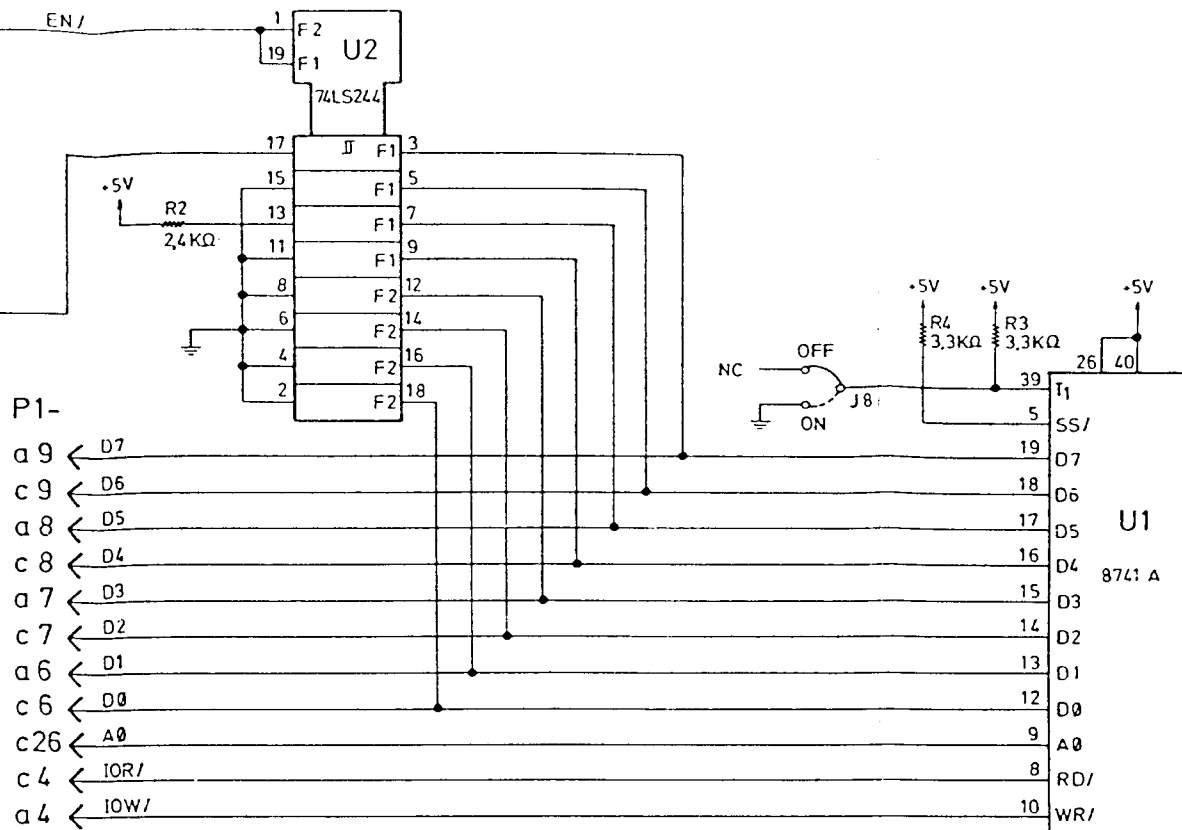
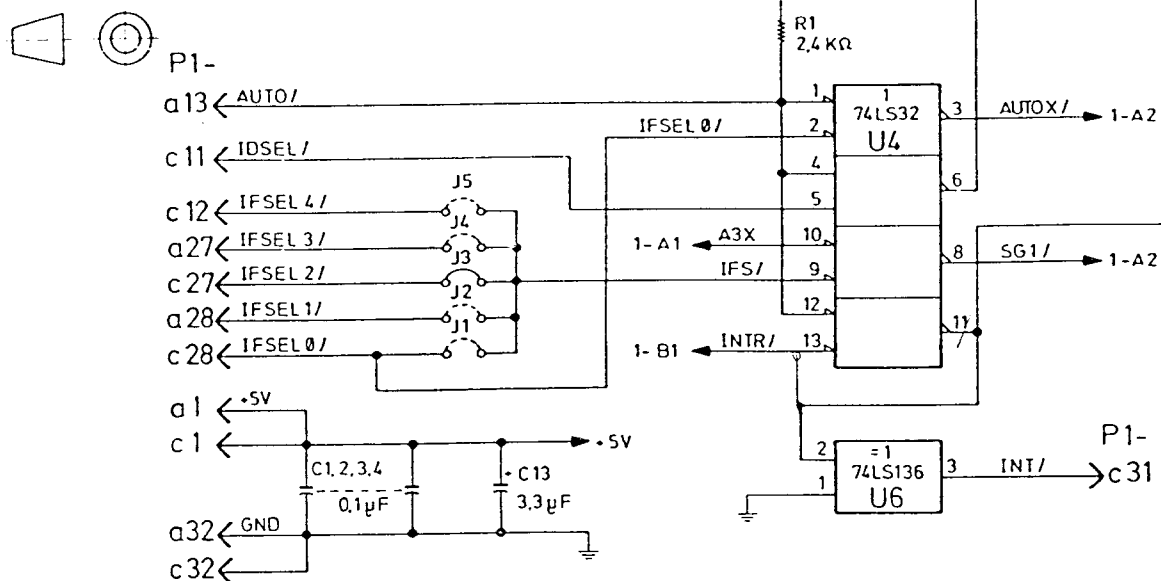


\* 1 ASSY - NO.: 017-0033572 - A  
 BEMERKUNGEN Notes  
 ANM. TELE. Smig Parts

ÄNDERUNGEN Changes  
 QUALITÄTSANGABEN: Standard Quality per CES 107 01  
 TOL. WENN NICHT ANGEGBEN, Unless Other Specified  
 OBERFL. DUAL Surface Finish  
 MASSSTOL. mm NEARNESS Dimensional Tolerances  
 UNBEMASSTIGTE RADEN Profile  
 UNBEMASSTIGTE SCHÄRFE KANTEN Break Sharp Edges

WERKSTOFF Material  
 OBERFLÄCHENBEHANDLUNG Coating  
 WÄRMEBEHANDLUNG Heat Treat  
 HARTE Hardness  
 KLASSE Class 3273  
 GEZ. AM Finish 10.5.84  
 GEZ. Dts. 3ppr.  
 ERSETZT DURCH S. and by  
 ERSATZ FÜR Substitutes

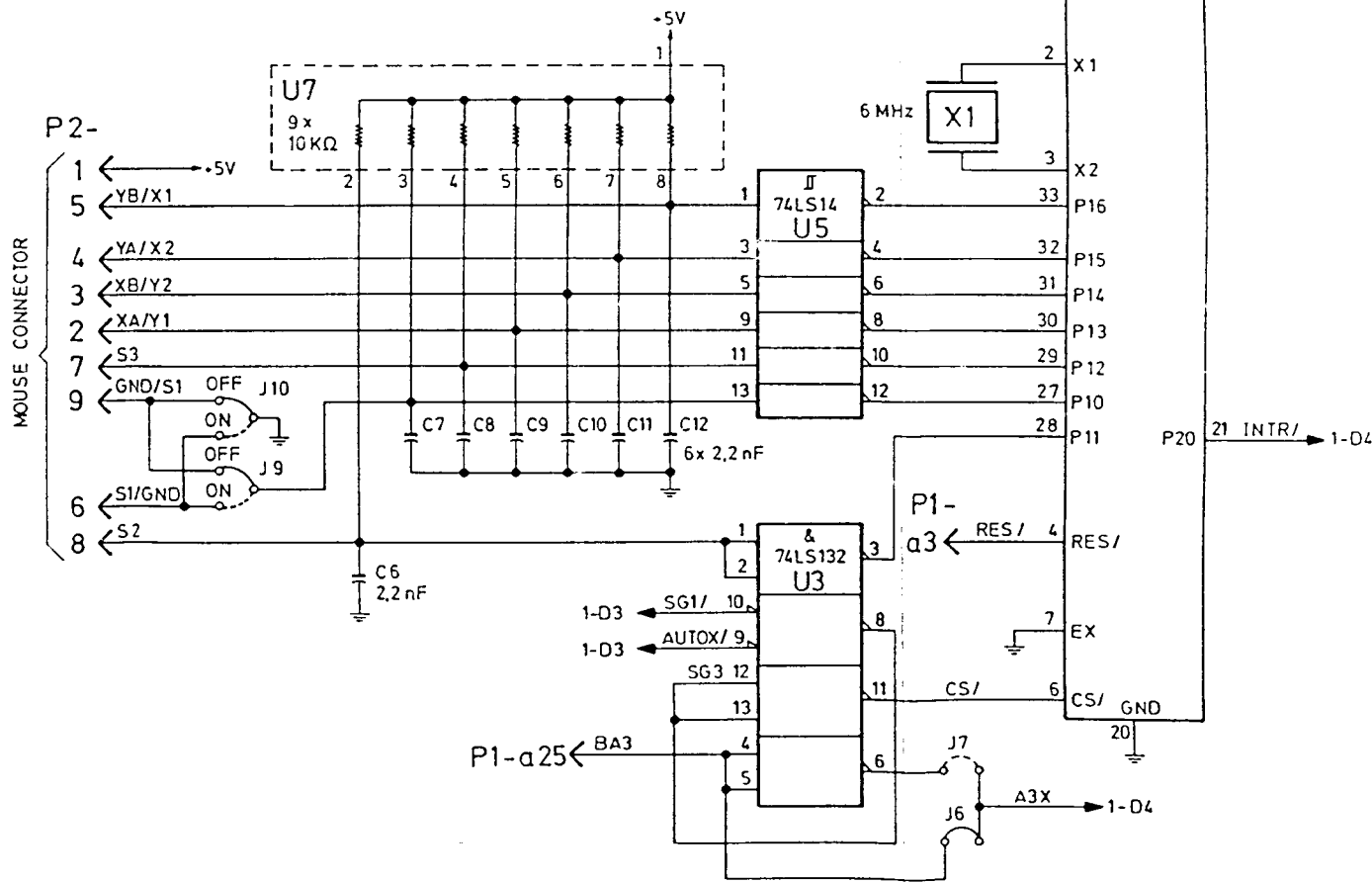
A 170R01430/Kn. 5.84  
 REV. DEV. REL. NO. NAME. DATE.  
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 © NCR 1984  
 MCR GmbH AUGSBURG  
 GRUPE Line  
 NAME SCHEMATIC-PROCESSOR 68008  
 BLATT VON  
 MASSSTAB  
 CODE 017-0033573



JUMPER STRAPPING

		JUMPER CLOSED		
JUMPER	CLOSED	J 6	J 7	INTERFACE-SELECT
J1	X	X		IFSEL 0 a/
J1	X		X	IFSEL 0 b/
J2	X	X		IFSEL 1 a/
J2	X		X	IFSEL 1 b/
J3	X	X		IFSEL 2 a/
J3	X		X	IFSEL 2 b/
J4	X	X		IFSEL 3 a/
J4	X		X	IFSEL 3 b/
J5	X	X		IFSEL 4 a/
J5	X		X	IFSEL 4 b/

SWITCHES		SELECTED MOUSE
J8, J9, J10	OFF	HAWLEY MOUSE, ALPS MOUSE
J8, J9, J10	ON	DEPRAZ MOUSE



♦2 J8, J9, J10 GEZEICHNET/DRAWN IN POS. OFF  
 ♦1 ASSY-NO. 017-0032816-A

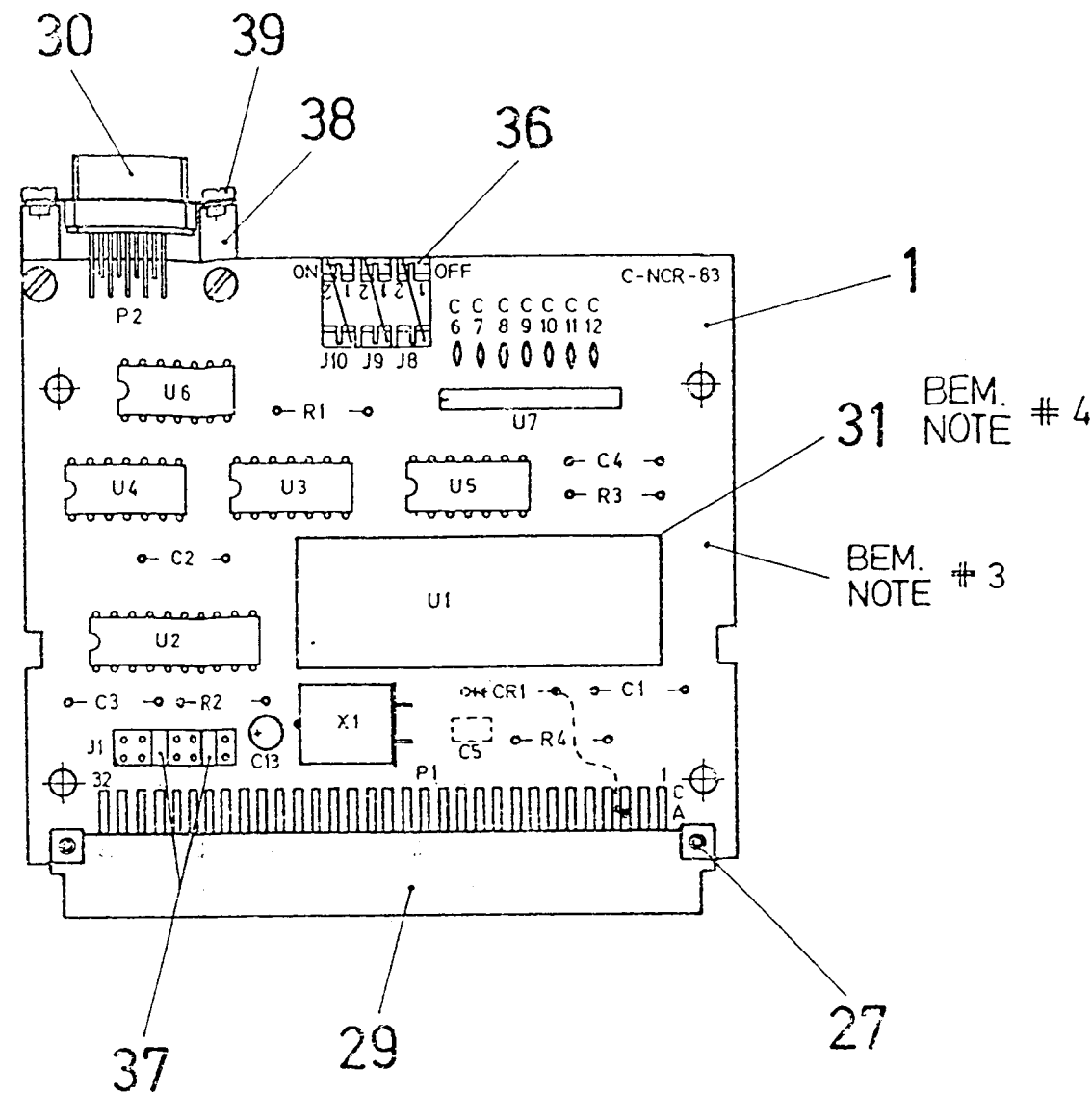
QUALITÄTSANGABEN Standard Quality per ES 2-07-01				WERKSTOFF Material		ÄNDERUNGEN Changes		This document is NCR Intellectual Property and is the property of NCR Corporation. It is to be treated as strictly confidential and not disclosed. Reproduction is prohibited. It may be used only in connection with maintenance and use of the equipment.	
TOL. WENN NICHT ANDERS ANGEGEBEN Unless Otherwise Specified:	OBERFL. QUAL. Surface Finish:		WINKEL Angles:	mm	INCH	OBERFLÄCHENBEHANDLG. Coating		KLASSE Class 3273	
	✓					VERBINDUNGSART, Joining:		GEZ. AM. Finish 31.8.1983	
MASSTOL. NENNMASS. Dimensional Tolerances:						WÄRMEBEHANDLG., Heat Treat:		GEPR. Char. 3273	
UNBEMASSTE ECKEN Corner Radii:	INNEN	MAX.				HARTE Hardness:		GEPR. Dts. 3273	
UNBEMASSTE SCHARFE KANTEN Break Sharp Edges:	AUSSEN	MAX.				ERSETZT DURCH, Suppl. by:		GEPR. STR. Designer	
BOHRUNGEN ENTGRÄTET Hole Deburr Depth:		MAX.				ERSATZ FÜR, Successor:		GEPR. Appl. 3273	
								BLATT-NR. 017-0032824	
								CODE	

Schüller Microfilm GmbH  
 Zusamweg 4 Tel. 09 06/41 94  
 8650 Donaupfaffenhofen

# JUMPER STRAPPING

		JUMPER CLOSED		
JUMPER	CLOSED	J6	J7	INTERFACE-SELECT
J1	X	X		IFSEL 0 a/
J1	X		X	IFSEL 0 b/
J2	X	X		IFSEL 1 a/
J2	X		X	IFSEL 1 b/
J3	X	X		IFSEL 2 a/
J3	X		X	IFSEL 2 b/
J4	X	X		IFSEL 3 a/
J4	X		X	IFSEL 3 b/
J5	X	X		IFSEL 4 a/
J5	X		X	IFSEL 4 b/

SWITCHES		SELECTED MOUSE
J8, J9, J10	OFF	HAWLEY MOUSE, ALPS MOUSE
J8, J9, J10	ON	DEPRAZ MOUSE



WIRE NO.	START TERM	END TERM	P/L ITEM	COMP. SIDE	SOLD. SIDE
1	P1a 3	U1-4	40		X

A	17DR01349	Kn. 10.83
REV.	DEV. REL. NO.	NAME DATE

# 4 U1 IN K 806 AUFGEFÜHRT  
U1 LISTED IN K 806

# 3 LABEL „ASSY 017-0032816 - A“  
AUFGEKLEBT / GLUED  
LABEL „SCHM. 017-0032824 - A“  
AUFGEKLEBT / GLUED

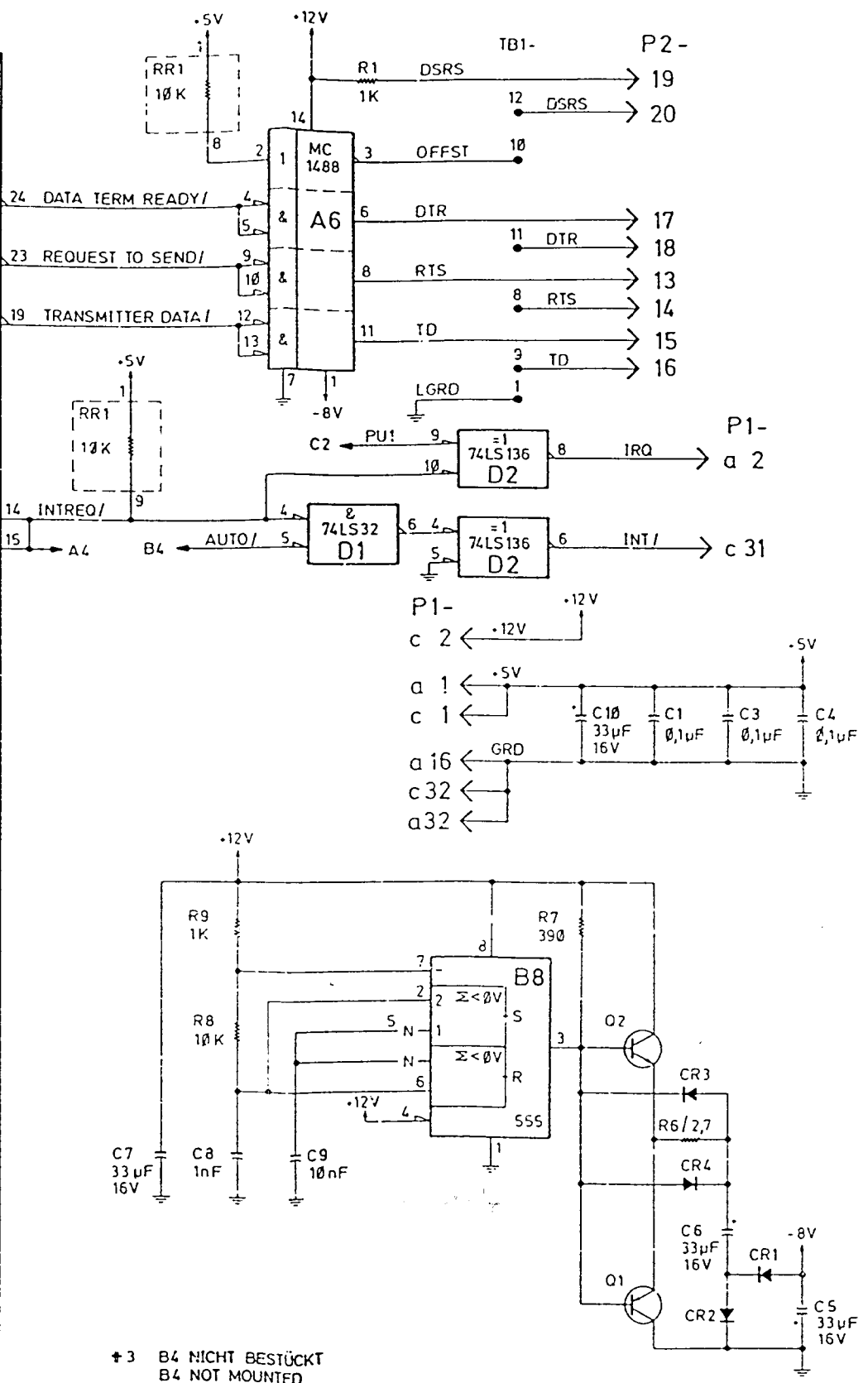
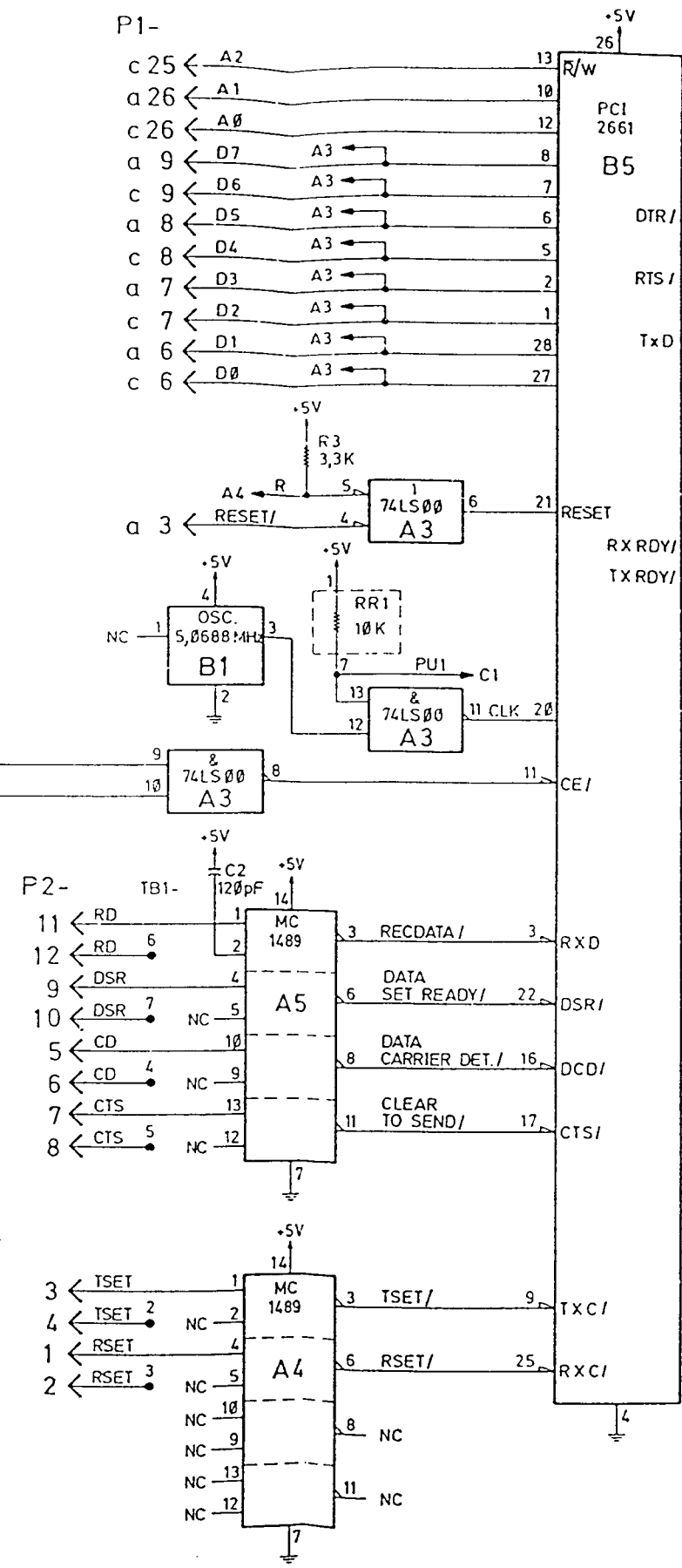
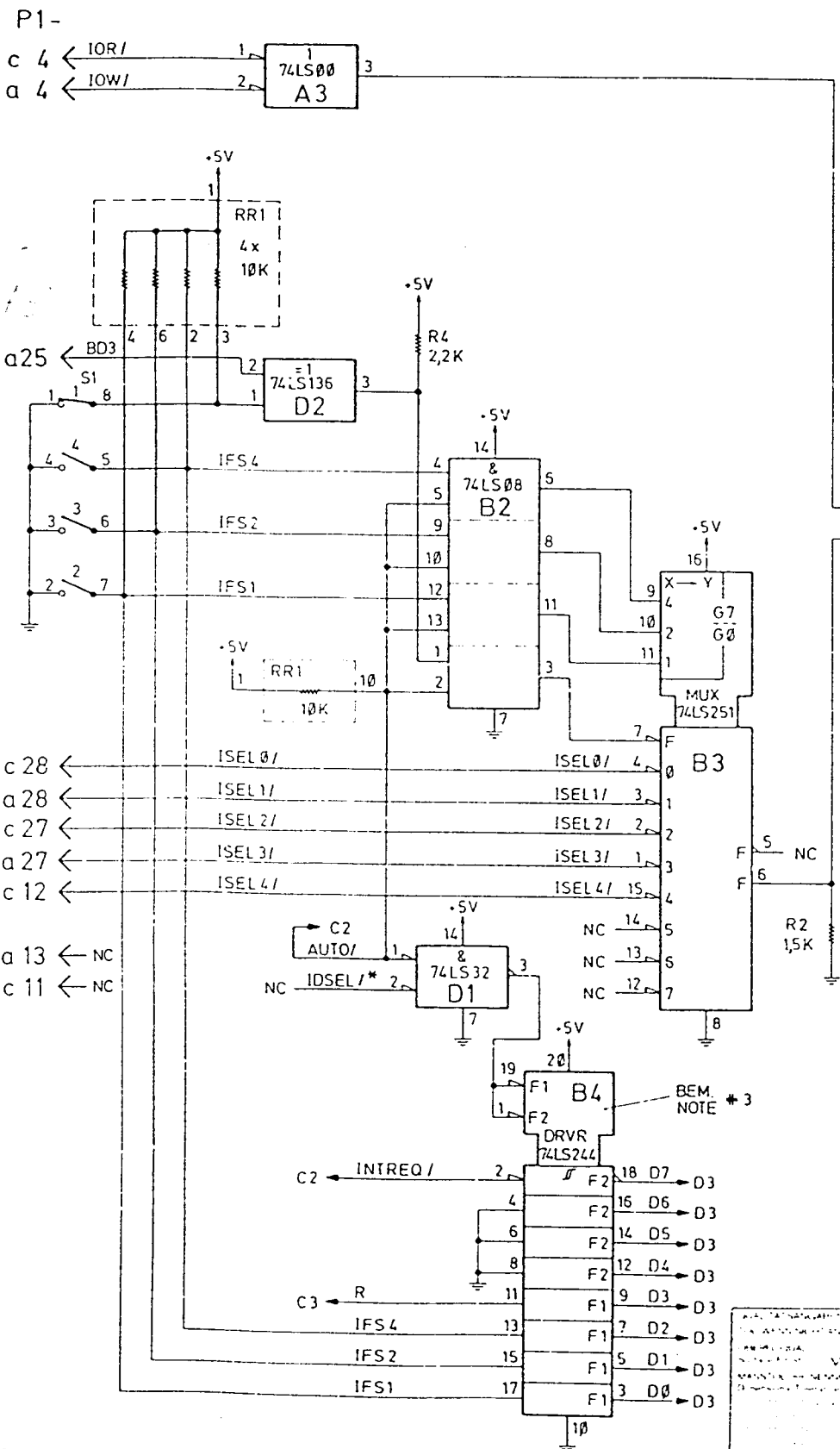
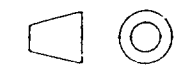
# 2 CR1, C5 NICHT BESTÜCKT  
CR1, C5 NOT MOUNTED

# 1 SCHEMATIC - NO.: 017-0032824

BEMERKUNGEN; Notes:

ÄHNL. TEILE Similar Parts:

ÄNDERUNGEN Changes:		WERKSTOFF Material:		"The content of this document is 'NCR Intellectual Property' and is the property of NCR Corporation. It is to be treated as strictly confidential and is not to be disclosed, reproduced, or used except as authorized in writing by NCR in connection with the manufacture, maintenance and use of the NCR equipment to which it pertains."	
QUALITÄTSANGABEN; Standard Quality per CES 2-07-01		OBERFLÄCHENBEHANDLG. Coating:			
TOL. WENN NICHT ANGEGBEN; Unless Otherw. Specified:		WÄRMEBEHANDLG. Heat Treat:		© <b>NGR</b> 198_3_ NCR GmbH AUGSBURG	
OBERFL. QUAL. Surface Finish: ✓	WINKEL Angles ± mm	HÄRTE Hardness:		GRUPPE Unit:	
MASSTOL. mm NENNMASS: X,X ±	Deminsional Tolerances: X,XX ±	KLASSE Class: 3273		NAME: BOARD-ASSY. MOUSE INTERFACE	
UNBEMASSTE RADIEN: Radii: MAX.		GEZ. AM Finish: 3.10.1983	GEPR. Chkr.:	BLATT: 2 VON: 2	
UNBEMASSTE SCHARFE KANTEN FASE OD. RADIUS: Break Sharp Edges: MAX.		GEZ. Dfs.: Gp.	KONSTR. Designer: Xu.	MASSTAB: 1:1	
		ERSETZT DURCH Supsd. by:		017-0032816	
		ERSATZ FÜR Supersedes:		CODE: -	



- # 3 B4 NICHT BESTÜCKT  
B4 NOT MOUNTED
- # 2 ALLE WIDERSTANDSWERTE SIND IN OHM  
ALL RESISTANCE VALUES ARE IN OHM
- # 1 ASSY-NO.: 017-0032711-B

BEMERKUNGEN  
1. ALLE WIDERSTANDSWERTE SIND IN OHM  
2. ALLE RESISTANCE VALUES ARE IN OHM

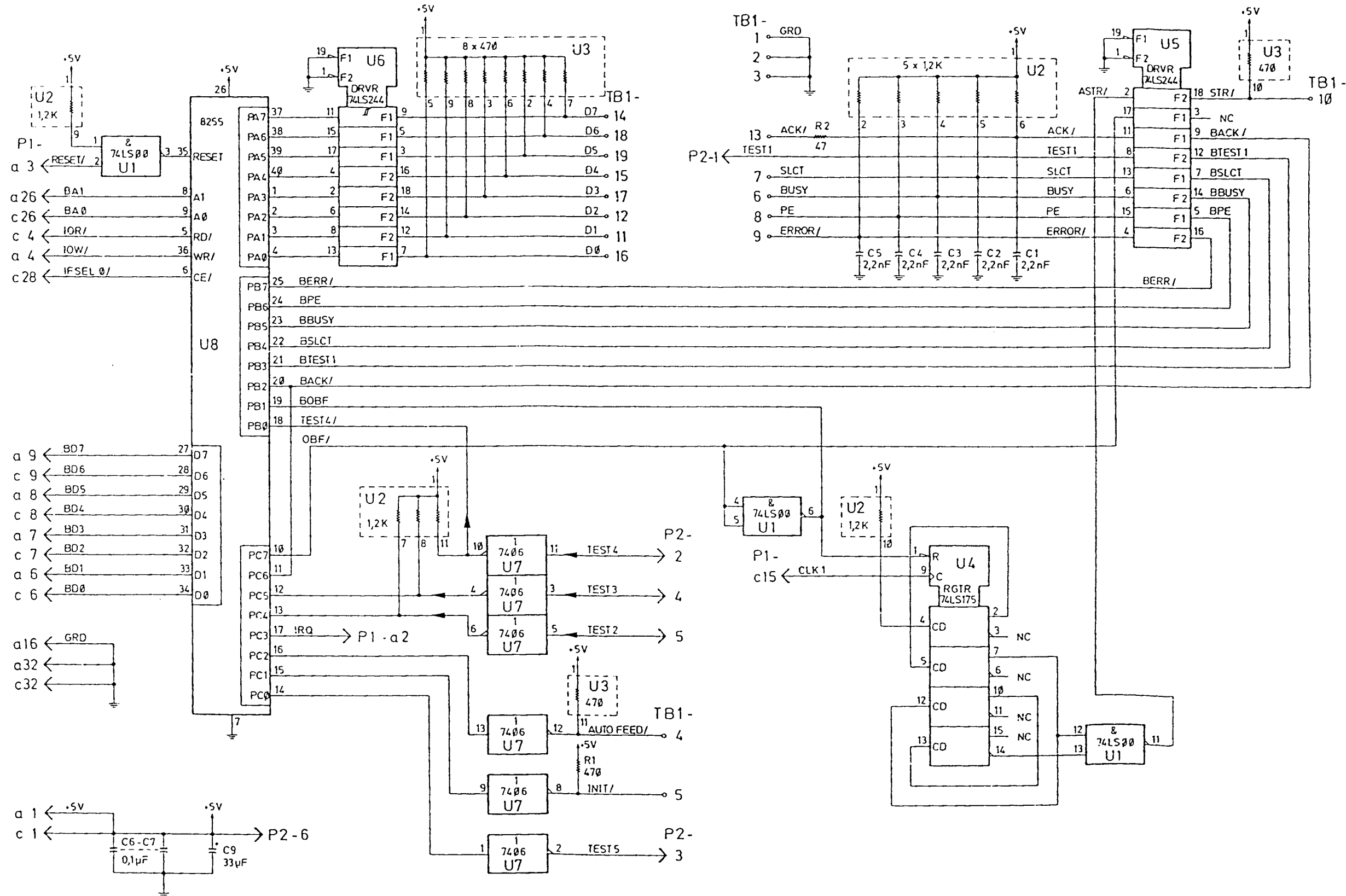
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A1	74LS00	1	IC
A2	74LS08	1	IC
A3	74LS08	2	IC
A4	MC 1489	2	IC
A5	MC 1489	1	IC
A6	MC 1488	1	IC
B1	OSC. 5,0680 MHz	1	OSC
B2	74LS08	1	IC
B3	MUX 74LS251	1	IC
B4	DRVR 74LS244	1	IC
B8	555	1	IC
D1	74LS32	1	IC
D2	74LS136	2	IC
G7	MUX 74LS251	1	IC

KLASSE Class 3273  
 GEZ. AMT Form 7.7.1983  
 GEZ. DR. G. ...  
 GEPR. ...  
 KONSTR. ...  
 GES. ABT. ...  
 NORMENGEPR. ABT. ...  
 EINGES. ...  
 ERSETZT DURCH ...  
 ERSETZT FÜR ...

170RC1410 Kn. 284  
 A 170R01331 Kn. 9.83  
 017-0032711-B

SCHEMATIC SWITCH RS-232C  
 K 801

017-0032712



# 2 ALLE WIDERSTANDSWERTE SIND IN OHM  
ALL RESISTANCE VALUES ARE IN OHM

# 1 ASSY : 017-0031546 - C

BEWEHRUNGEN: ...  
ANNE TERKE, Simul Parts

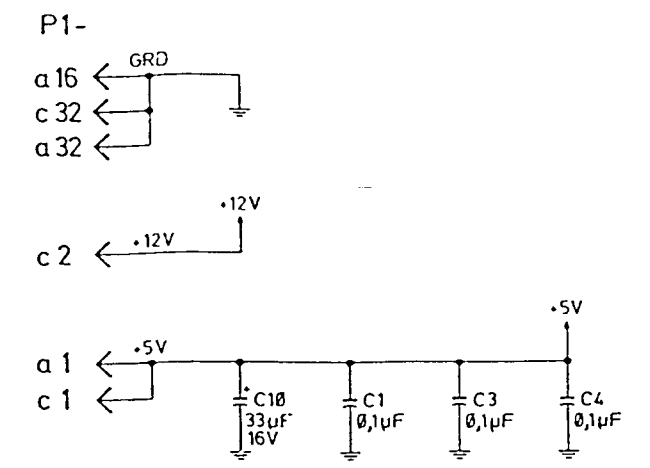
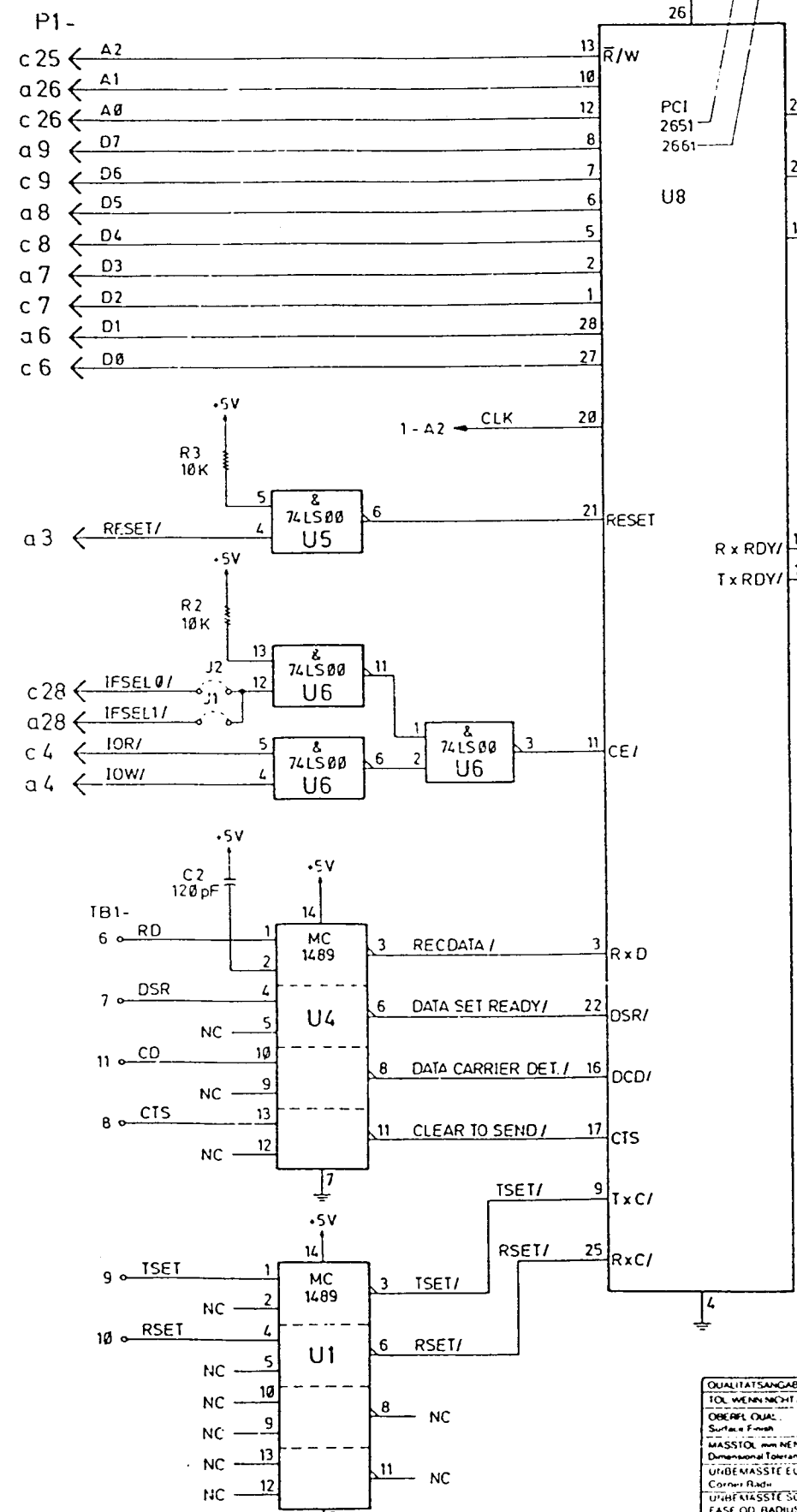
QUALITÄTSANGABEN	Standard Quality per ES 2 07 01	WENN NICHT ANGEZEIGT	WENN NICHT ANGEZEIGT
ORIENT. QUAL.	✓	WINKEL	...
MASSST. NACH NENNMASS	...	OHNE FLÄCHENHÄNDLER	...
...	...	VERMENNUNGSART	...
...	...	WÄRMENÄHERUNG	...
...	...	PARTEI	...

B 17090437, Kn. 784  
A 170901207, Kn. 3182

ALIAS: Class 3273  
GEZ AM: 31.8.1982  
GEZ DR: 4.9.1982

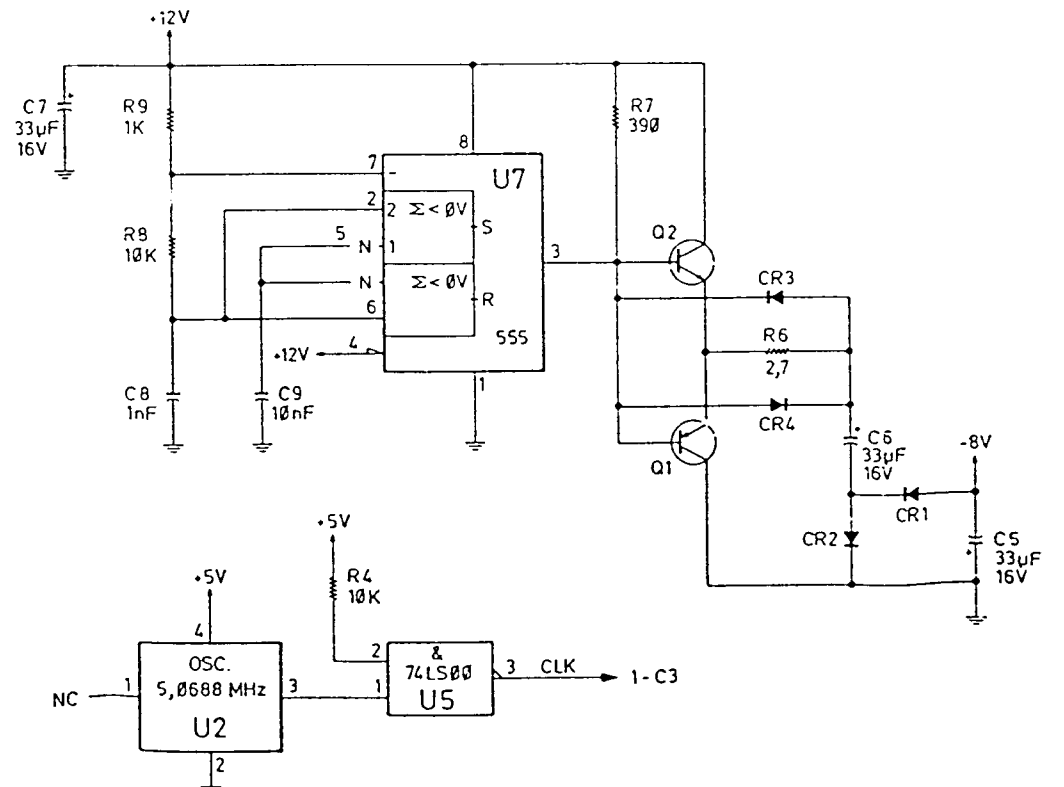
GROUP: ...  
NAME: SCHEMATIC-CENTRONICS, I/E

DATE: 017-0031546



JUMPER STRAPPING

J2	closed	for K 212 (Printer Cable)
J1	closed	for K 211 (Modem Cable)
J2	closed	for K 213 (Plotter Cable)



\* 2 ALLE WIDERSTANDSWERTE SIND IN OHM  
ALL RESISTANCE VALUES ARE IN OHM

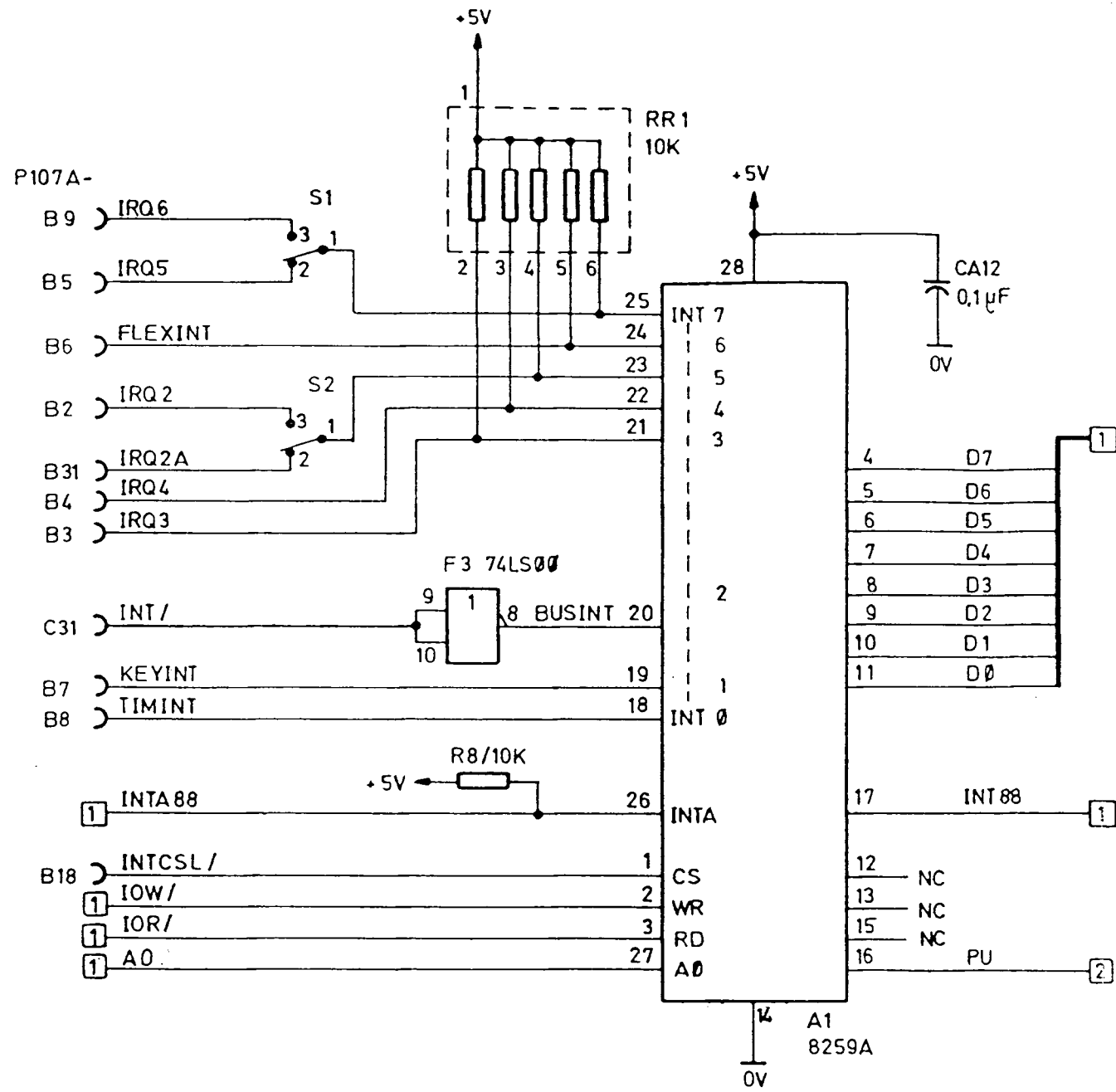
\* 1 ASSY: 017-0031857  
017-0033415

QUALITÄTSANGABEN Standard Quality per ES 2 07-01		WEKSTOFF Material		ÄNDERUNGEN Changes		This document is MCR Intellectual Property and is the property of MCR Corporation. It is to be treated as strictly confidential and not disclosed. Reproduction is prohibited. It may be used only in connection with maintenance and use of the equipment.	
TOL. WENN NICHT ANDERS ANGEZEIGT	UNTERSCHIEDS	WINKEL	mm	INCH		KLASSE, Class	3273
OBERFL. QUAL. Surface Finish	✓	WINKEL				GEZ. AM. Finish	19.10.1982
MASSST. NENNMASS Dimensional Tolerances	XXX	WINKEL				GEZ. Dm	
UNDEMSSTE ECKEN Corner Radii	INNEN MAX. AUSSEN MAX.	VERBINDUNGSART Joining				GEPR. Dm	
UNHEFASSTE SCHNITTE KANTEN FASE OD RADIUS	MAX.	WÄRMEBEHANDLUNG Heat Treat				KONSTR. Designer	
BOHRUNGEN ENTGRATET Hole Deburr Debur	MAX.	HARTE Hardness				GES. Appl.	
						NACHGEPR. Appd	
						BLATT, YCM	
						MASSTAB	
						ERSATZ FÜR, Supersedes	
						CODE	

C 17DR01369-1.1.11-B-3  
B 17DR01222-Kn.1.83  
A 17DR01208-Kn.1.83  
MCR | ENG. UNIT | NAME | DATE | Rev | Eng. Ref. No. | Dm | Date

BEWEISUNGEN Name  
ANNE TERKE - Senior Partner

017-0031865

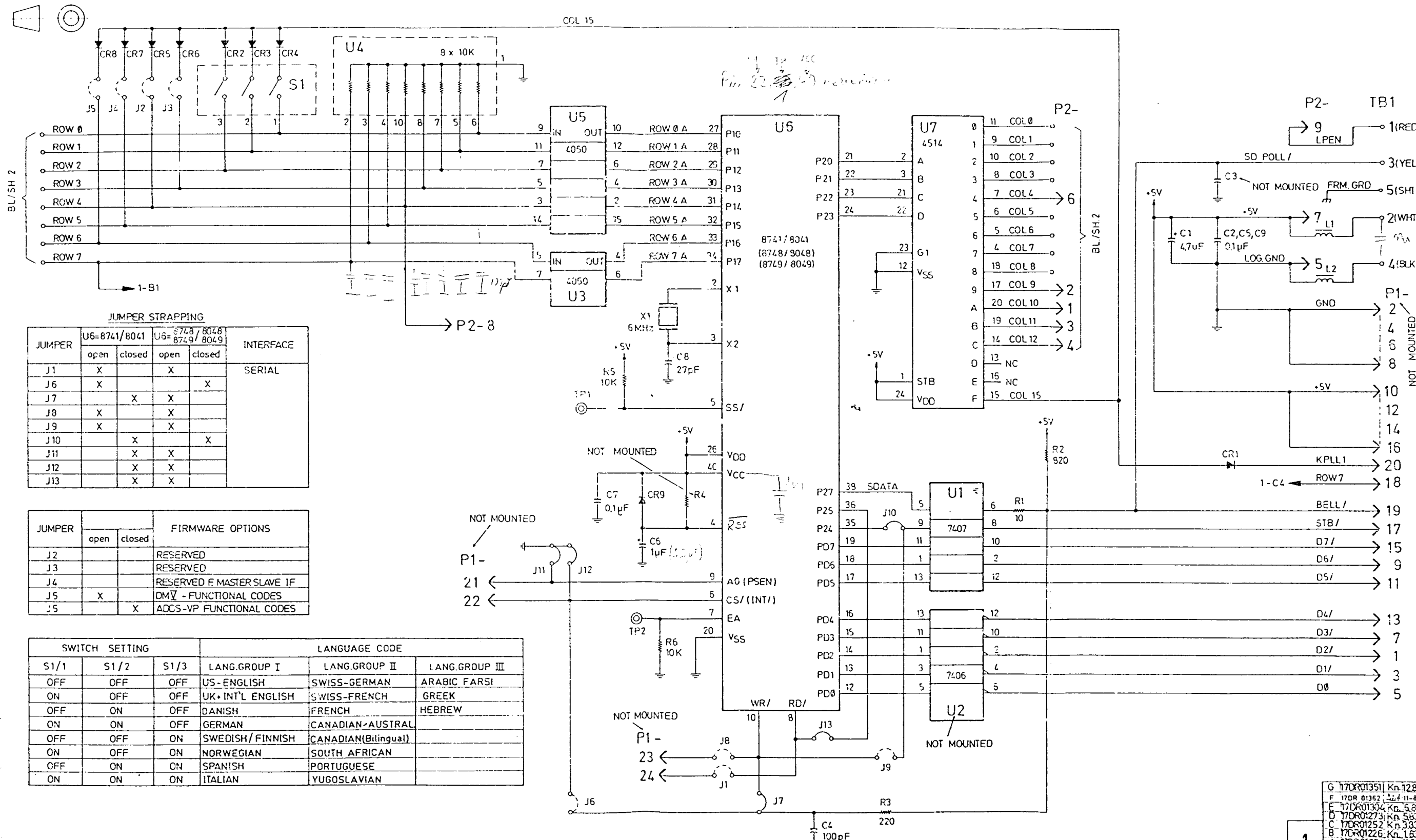


A	17DR01413	Kn.	2.84
REV.	DEV. REL. NO.	NAME	DATE

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QUALITÄTSANGABEN; Standard Quality per CES 2-07-01		OBERFLÄCHENBEHANDLG. Coating:			
TOL. WENN NICHT ANGEZEIGT; Unless Otherw. Specified:					
OBERFL. QUAL. Surface Finish: ✓	WINKEL Angles ±	mm	WÄRMEBEHANDLG. Heat Treat:	© <b>NCR</b> 1984 NCR GmbH AUGSBURG	
MASSTOL mm NENNMASS: Deminisional Tolerances: XX ± XXX ±			HÄRTE Hardness:	GRUPPE Unit:	
UNBEMASSTE RADIEN: Radii: MAX.			KLASSE Class: 3273	NAME: SCHEMATIC-16 B.I.T. PROCESS. INTERRUPT CONTROLLER 8088	
UNBEMASSTE SCHARFE KANTEN FASE OD. RADIUS: Break Sharp Edges: MAX.			GEZ. AM Finish: 30.1.84	GEPR. Chkr.:	BLATT: 3 VON: 3
			GEZ. Dfts.: Ka	KONSTR. Designer:	MASSTAB: 017-0033502
			ERSETZT DURCH Supsd. by:		

BEMERKUNGEN; Notes:  
ÄHNL. TEILE Similar Parts:

COL 15



JUMPER STRAPPING

JUMPER	U6=8741/8041		U6=8748/8048 8749/8049		INTERFACE
	open	closed	open	closed	
J1	X		X		SERIAL
J6	X			X	
J7		X	X		
J8	X		X		
J9	X		X		
J10		X		X	
J11		X	X		
J12		X	X		
J13		X	X		

JUMPER	FIRMWARE OPTIONS		
	open	closed	
J2			RESERVED
J3			RESERVED
J4			RESERVED F. MASTER SLAVE IF
J5	X		OMV - FUNCTIONAL CODES
J5		X	ADCS-VP FUNCTIONAL CODES

SWITCH SETTING			LANGUAGE CODE		
S1/1	S1/2	S1/3	LANG.GROUP I	LANG.GROUP II	LANG.GROUP III
OFF	OFF	OFF	US-ENGLISH	SWISS-GERMAN	ARABIC FARSI
ON	OFF	OFF	UK-INT'L ENGLISH	SWISS-FRENCH	GREEK
OFF	ON	OFF	DANISH	FRENCH	HEBREW
ON	ON	OFF	GERMAN	CANADIAN-AUSTRAL	
OFF	OFF	ON	SWEDISH/FINNISH	CANADIAN(Bilingual)	
ON	OFF	ON	NORWEGIAN	SOUTH AFRICAN	
OFF	ON	ON	SPANISH	PORTUGUESE	
ON	ON	ON	ITALIAN	YUGOSLAVIAN	

\* 2 ALLE WIDERSTANDSWERTE SIND IN OHM  
ALL RESISTANCE VALUES ARE IN OHM

\* 1 ASSY-NO: 017-0032531; 017-0032536; 017-0032538;  
017-0032535; 017-0032537; 017-0033379

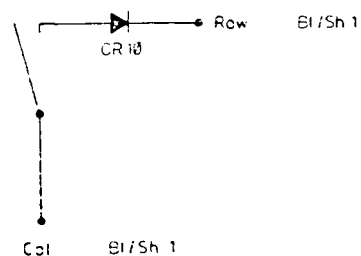
<p>QUALITÄTSANFORDERUNG Standard Quality per ES 2 02 01</p> <p>TOE WENN NICHT ANDERS ANGEZEIGT GEBEN SICH DIE DIMENSIONEN IN MILLIMETER AN</p> <p>OBERFLÄCHENBEHANDLUNG Surface Finish</p> <p>MASSSTAB mit NEIN/MASS Dimensional Tolerances</p> <p>GRÖßTE MASSSTÄBE IN MILLIMETER MAX</p> <p>GRÖßTE MASSSTÄBE IN ZOLL MAX</p> <p>GRÖßTE MASSSTÄBE IN ZOLL MAX</p> <p>GRÖßTE MASSSTÄBE IN ZOLL MAX</p> <p>GRÖßTE MASSSTÄBE IN ZOLL MAX</p> <p>GRÖßTE MASSSTÄBE IN ZOLL MAX</p> <p>GRÖßTE MASSSTÄBE IN ZOLL MAX</p>	<p>WEKSTOFF Material</p> <p>GRÜNDLICHE BEHANDLUNG Coating</p> <p>VERBINDERLEISTUNG Connector</p> <p>WÄRMELÄHMUNG Heat Treat</p> <p>HAARTE Härte</p>	<p>ÄNDERUNGEN Changes</p> <p>PLASSE Class 3273</p> <p>GEZ. AM. Final 17.9.82</p> <p>GEZ. DRG. DRG.</p> <p>GEPR. CHA. CHA.</p> <p>KONSTR. Designer</p> <p>GES. AUDI. AUDI.</p> <p>NONINGENIEUR</p> <p>ERSETZT DURCH: Surrogat</p> <p>ERSETZT DURCH: Surrogat</p>	<p>THIS DOCUMENT IS NCR INTELLECTUAL PROPERTY AND IS THE PROPERTY OF NCR CORPORATION. IT IS TO BE KEPT AS A COPY IDENTICAL AND NOT CHECKED OUT. REPRODUCTION OR DISSEMINATION IS TO BE KEPT AS A COPY IDENTICAL AND NOT CHECKED OUT. REPRODUCTION OR DISSEMINATION IS TO BE KEPT AS A COPY IDENTICAL AND NOT CHECKED OUT.</p> <p>NGS NCR GmbH AUGSBURG</p> <p>NAME SCHEMATIC KEYBOARD</p> <p>BLATT 1 von 2</p> <p>17-0031563</p>
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	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
F	F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F50	F51	F52	F53	F54
	Row 7 Col 1	Row 7 Col 5	Row 7 Col 4	Row 7 Col 2	Row 7 Col 0	Row 7 Col 3	Row 7 Col 8	Row 7 Col 10	Row 7 Col 12	Row 7 Col 6	Row 7 Col 9	Row 7 Col 11	Row 7 Col 7	Row 7 Col 7	Row 7 Col 11	Row 0 Col 9	Row 3 Col 11	Row 3 Col 9	Row 3 Col 10	Row 3 Col 12
E	E0	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E50	E51	E52	E53	E54
	Row 6 Col 1	Row 6 Col 5	Row 6 Col 4	Row 6 Col 2	Row 6 Col 0	Row 6 Col 3	Row 6 Col 8	Row 6 Col 10	Row 6 Col 12	Row 6 Col 6	Row 6 Col 9	Row 6 Col 11	Row 6 Col 7	Row 6 Col 7	Row 6 Col 11	Row 0 Col 12	Row 4 Col 11	Row 4 Col 9	Row 4 Col 10	Row 4 Col 12
D	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D50	D51	D52	D53	D54	
	Row 5 Col 1	Row 5 Col 5	Row 5 Col 4	Row 5 Col 2	Row 5 Col 0	Row 5 Col 3	Row 5 Col 8	Row 5 Col 10	Row 5 Col 12	Row 5 Col 6	Row 5 Col 9	Row 5 Col 11	Row 5 Col 7	Row 5 Col 7	Row 5 Col 11	Row 0 Col 2	Row 3 Col 0	Row 3 Col 2	Row 4 Col 0	Row 4 Col 2
C	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C50	C51	C52	C53	C54	
	Row 1 Col 1	Row 1 Col 5	Row 1 Col 4	Row 1 Col 2	Row 1 Col 0	Row 1 Col 3	Row 1 Col 8	Row 1 Col 10	Row 1 Col 12	Row 1 Col 6	Row 1 Col 9	Row 1 Col 11	Row 1 Col 7	Row 1 Col 7	Row 1 Col 11	Row 0 Col 8	Row 3 Col 3	Row 3 Col 5	Row 4 Col 3	Row 4 Col 5
E	B99	B00	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B50	B51	B52	B53	B54		
	Row 2 Col 4	Row 2 Col 1	Row 2 Col 5	Row 2 Col 4	Row 2 Col 2	Row 2 Col 0	Row 2 Col 3	Row 2 Col 8	Row 2 Col 10	Row 2 Col 12	Row 2 Col 6	Row 2 Col 9	Row 2 Col 4	Row 2 Col 7	Row 0 Col 5	Row 3 Col 4	Row 3 Col 5	Row 4 Col 5		
A	A5													A50	A52	A53				
	Row 0 Col 0													Row 0 Col 1	Row 3 Col 1	Row 4 Col 1	Row 4 Col 4			

Typische Tastenbeschriftung / Typical Key Pinassignment

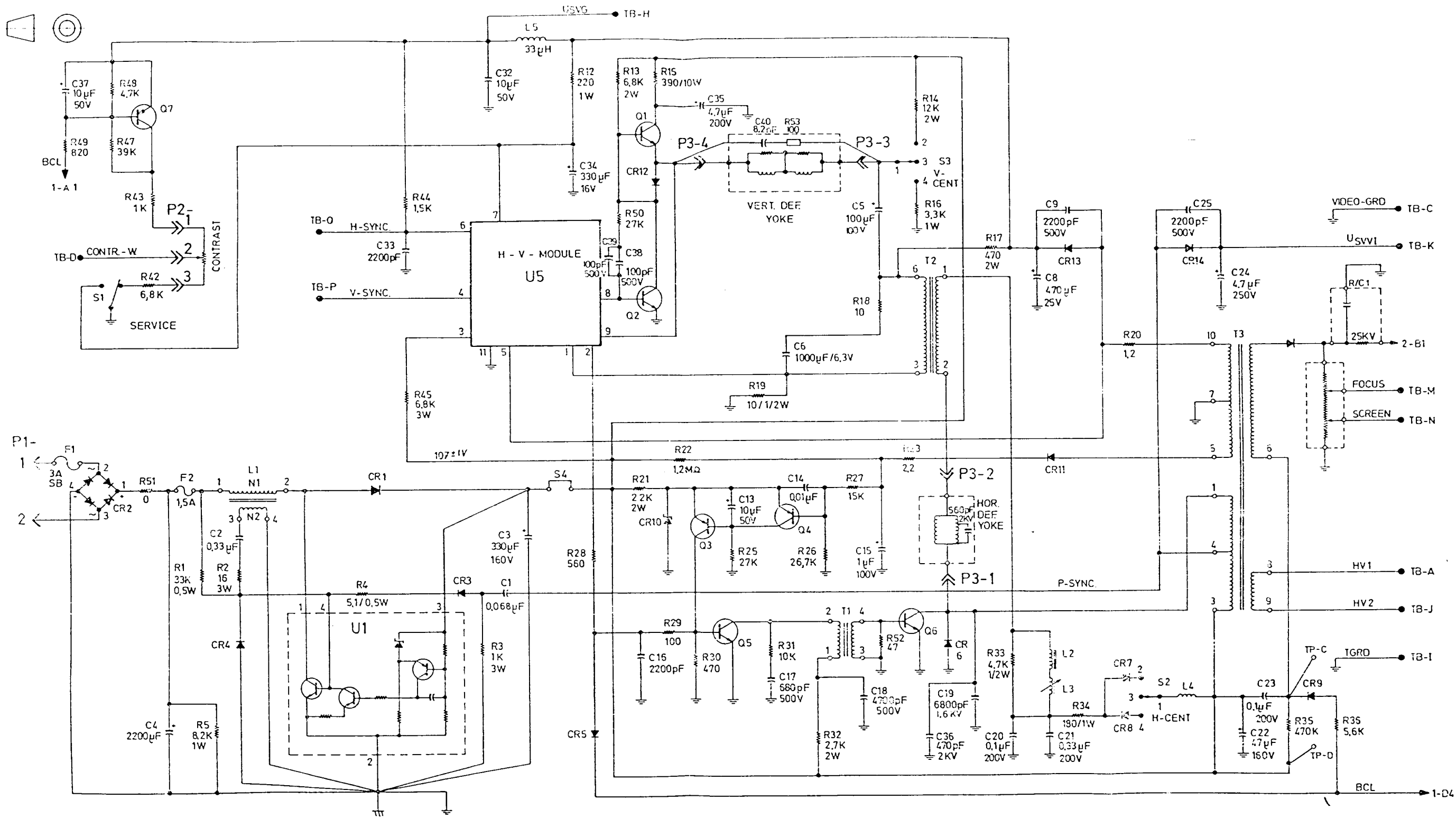


G	17CR01351 Kn.1283
F	17CR 51352 Kn.1284
E	17CR01304 Kn.683
D	17CR01273 Kn.583
C	17CR01252 Kn.383
B	17CR01226 Kn.183
A	17CR01204 Kn.183

2

QUALITÄTSANGABEN: Standard Quality per ES 20401 TUC WENN NICHT ANDERS ANGEZEIGT (Unless Otherwise Specified) ÜBERFLÄCHE: <input checked="" type="checkbox"/> ZINN <input type="checkbox"/> ZINNOXID Oberflächenbeschichtung MASSSTAB: mm 1:1 Dimensional Tolerances: MAX TOLERANZ: INNEN: MAX TOLERANZ: AUSSEN: MAX TOLERANZ: RADIUS: MAX TOLERANZ: SPITZE: MAX TOLERANZ: ENTFERNUNG: MAX TOLERANZ: GRUPPE: MAX	WERKSTOFF: Material OBERFLÄCHENBEHANDLUNG: Coating VERBINDUNGSART: joining WÄRMEBEHANDLUNG: Heat Treat HARTE: Hardness	ÄNDERUNGEN: Changes KLASSE: Class 3 273 LEZ AM: From 12.7.62 LEZ: Dns GERÄT: Device KONSTR: Designer DES: Dept VERMÄSSLICH: Agent ENDELT DURCH: Subst by EINSATZ: Use Supercedes	NCRGMM SÜDBURG SCHEMATIC KEYBOARD 017-0031563
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BEWERTUNGEN: None  
ÄHNL. TEILE: Similar Parts



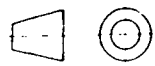
C-D ZUR STRAHLMSTROMEINSTELLUNG / FOR BEAMCURRENT ADJUSTMENT

BEMERKUNGEN: None  
Auch Teile, Simul. Parts

QUALITÄTSANGABEN: Standard Quality per ES 2-07-01 TOL. WENN NICHT ANDERS ANGEZEIGT: Unless Otherwise Specified		WELN STOFF: Material		ÄNDERUNGEN: Changes		"This document is NCR Intellectual Property and is the property of NCR Corporation. It is to be treated as strictly confidential and not disclosed. Reproduction is prohibited. It may be used only in connection with maintenance and use of the equipment."	
OBERFLÄCHE: Surface Finish	WINKEL: Angle	mm	INCH	KLASSE: Class 3273	GEZ. AM. Pos. 21.2.83	GEZ. ORG. 2K	NCR
MASSTOL. mm NEHMMASS: Dimensional Tolerances	INNE: Inner	MAX.	MIN.	VERBINDUNGSART: Joining	WÄRMEBEHANDLUNG: Heat Treat	HARTE: Hardness	NCR GmbH AUGSBURG
UNTERMASSTE ECKEN: Corner Radii	UNTERMASSTE SCHARFE KANTEN: Chamfer Sharp Edges	MAX.	MIN.	ERSATZ DURCH: Substit. by	ERSATZ FÜR: Substitution	017-0032158 A	SCHEM. DEFLEXION BOARD VIDEO AMPL.
BOHRUNGEN ENTGRATET: Holes Deburr Depth		MAX.					017-0032158

1  
C 17CR01346: Kn. 9.83  
B 17CR01300 Sch. 9.83  
A 17CR01282 Kn. 5.83  
NCR, ERG. MITT. N. NAME, DAT.  
Rev. Eng. No. Des. Date

A/2 A/3 A/4 A/5 A/6 A/7 A/8 A/9 A/10



TB-K USVVI

TB-H USVG

TB-D CONTRAST-W

TB-E RED 7

TB-F GREEN 6

TB-G BLUE 5

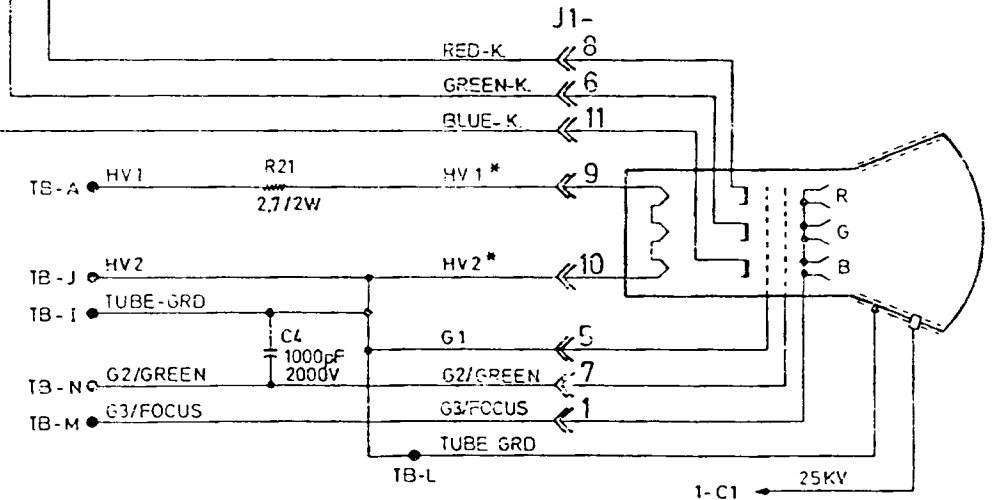
TB-C 9

TB-B

VIDEO PRE AMPLIFIER

VIDEO AMPLIFIER

*Einbau dieses C6 nicht möglich (Komponenten der Mikroelektronik)  
Es wird empfohlen C6 durch einen Tantalkondensator zu ersetzen!*



QUALITÄTSANFORDERUNGEN Standard Quality per ES 2-07-01		ANMERKUNGEN/Changes	
TUN WEENN NICHT ANDERS ANGE GEBEN (unless Others Specified)		VERBODEN/Forbidden	
OBERFL. QUAL. Surface Finish	WINKEL Angle	OBERFLÄCHENBEHANDL. Coating	
MASSTOL mit NENNMASS Dimensional Tolerances	MAX. MIN.	VERBODENSGART. MOUNTING	
UNGERÄSTE ECKEN INNEN Corner Radii	MAX. MIN.	WÄRMEBEHANDL. Heat Treat.	
UNGERÄSTE SCHÄRFE AUSSEN	MAX. MIN.	HÄRTE Hardness	
FRÄSE OD. RADIIUS	MAX. MIN.		
BRÜHEN/Stamp E. Temp.	MAX. MIN.		
BOHRUNGEN/ENTGRÄTET	MAX. MIN.		
PLATE/Sheet/Drum	MAX. MIN.		

KLASSE Class	3273
GEZ. AM. Finish	45.83
GEZ. Dtm.	20
VERPR. Char.	
KONSTR. Designer	
GES. Assn.	
INSTRUMENT. Apod.	
ERSETZT DURCH/Replaced by	
ERSATZ NR./Supplement	017-0032158

2 C 17DR01346 Kn. 983  
S 17DR0360 S. 42, 53  
A 17DR01282 Kn. 5, 83  
NOEL FRG MITT NR. NAME DAT  
Max. Eng. No. 1000

NCR G-TECH  
AUGSBURG  
SCHEM. DEFLECTION BOARD  
VIDEO AMPLI  
BLATT 2 VON 3  
017 003 2158

BEMERKUNGEN/Notes

ÄHNL. TEILE, SIMILAR PARTS

A/2

A/3

A/4

A/5

A/5

A/4

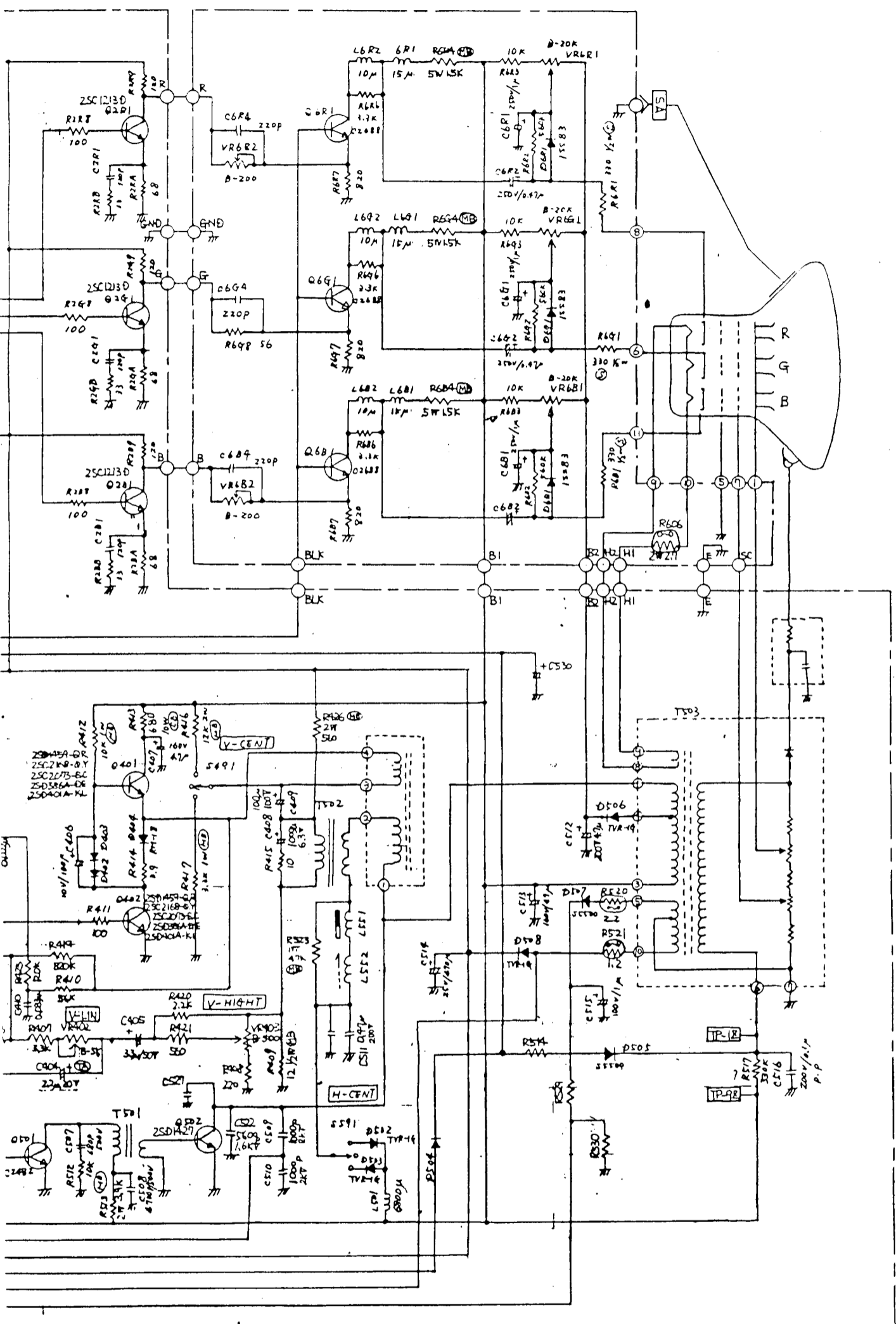
A/3

A/2

Schulz Intercom GmbH  
Kumweg 17-19 89074 Augsburg







21 DEC '83  
B.K. King

品名 マイボドハ  
1S2076A/1S2471 トスIL

11) 貴部品検査試験機6999P003 / 適用スル  
THE PARTS MUST SATISFY THE FOLLOWING  
STANDARD OF SPEC. NO. 999003 ITEM  
12) 貴部品検査機 / コト / 図面仕様書二編出シ  
7 検査機仕様書 / コト  
SAMPLES SHALL BE SUBMITTED TO ENG. DEPT. FOR  
TECHNICAL APPROVAL BEFORE PRODUCTION STARTS  
13) 17 検査機仕様書 / コト  
BURR: 1/5 X THICKNESS MAX.  
14) 指定ナキ打抜半角 / R1/1 ~ 3 用トスル  
CORNER ACCEPTABLE AT R1/3 用トスル OTHERWISE SPECIFIED  
15) 指定 / ナキ寸法許容差 / 八倍用トスル  
TOLERANCE MUST BE IN ACCORDANCE WITH THE  
TABLE RIGHT HAND UNLESS OTHERWISE SPECIFIED

呼び寸法	寸法差	許容差
RANGE OF DIMENSION	公差	公差
UP TO 30	±0.05	±0.10
ABOVE 30 TO 80	±0.07	±0.15
ABOVE 80 TO 120	±0.10	±0.20
ABOVE 120 TO 250	±0.15	±0.30
ABOVE 250 TO 500	±0.20	±0.45
ABOVE 500	±0.30	±0.75

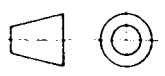
規格	MATERIAL AND DIMENSION	UNIT	REMARK
1			
2			
3			
4			
5			

第3角法 3RD ANGLE PROJECTION  
DIM IN MM  
SCALE 1:1  
DATE  
MITSUBISHI ELECTRIC CORPORATION  
DRAWN CHECKED DESIGNED APPROVED  
高柳

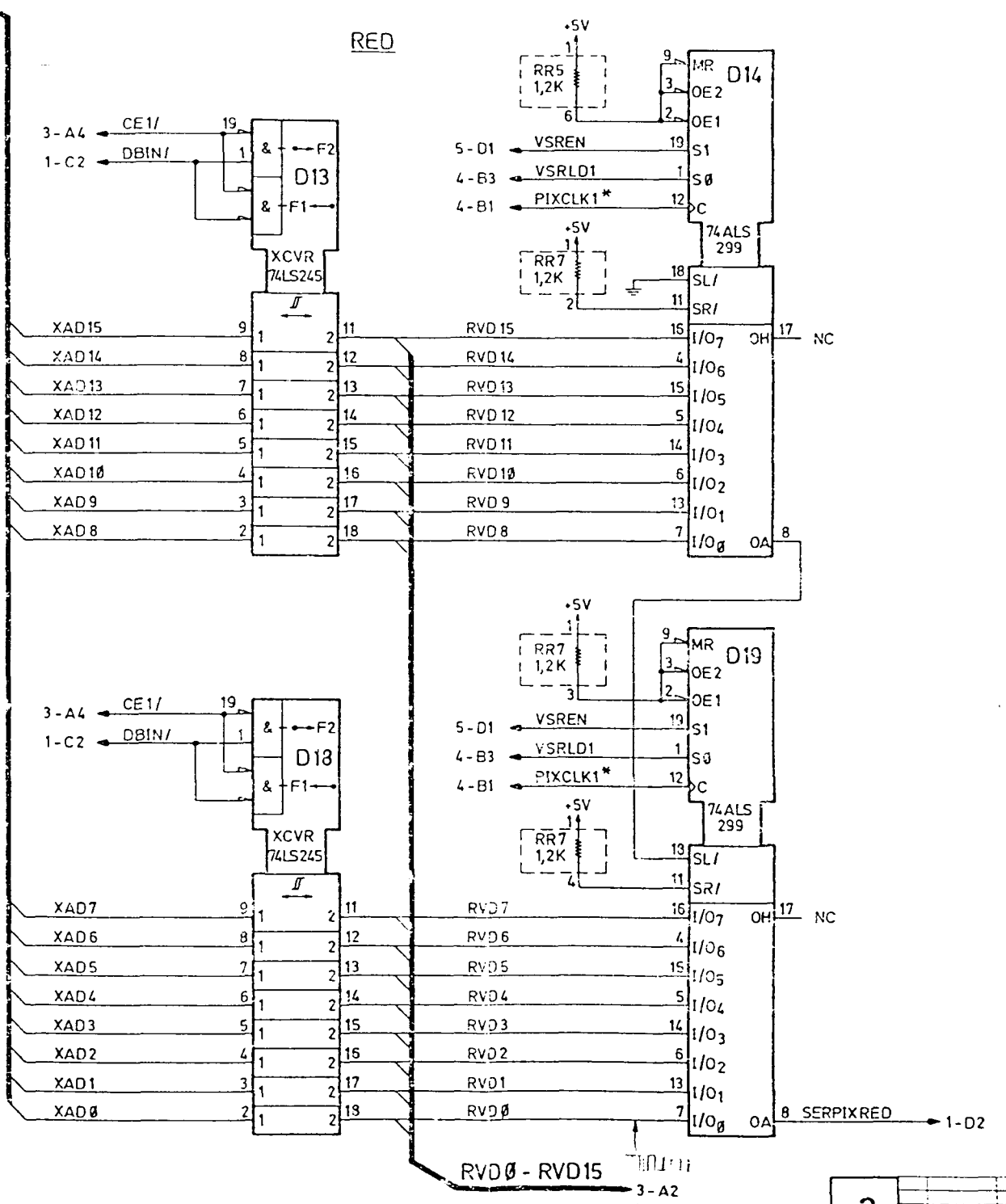
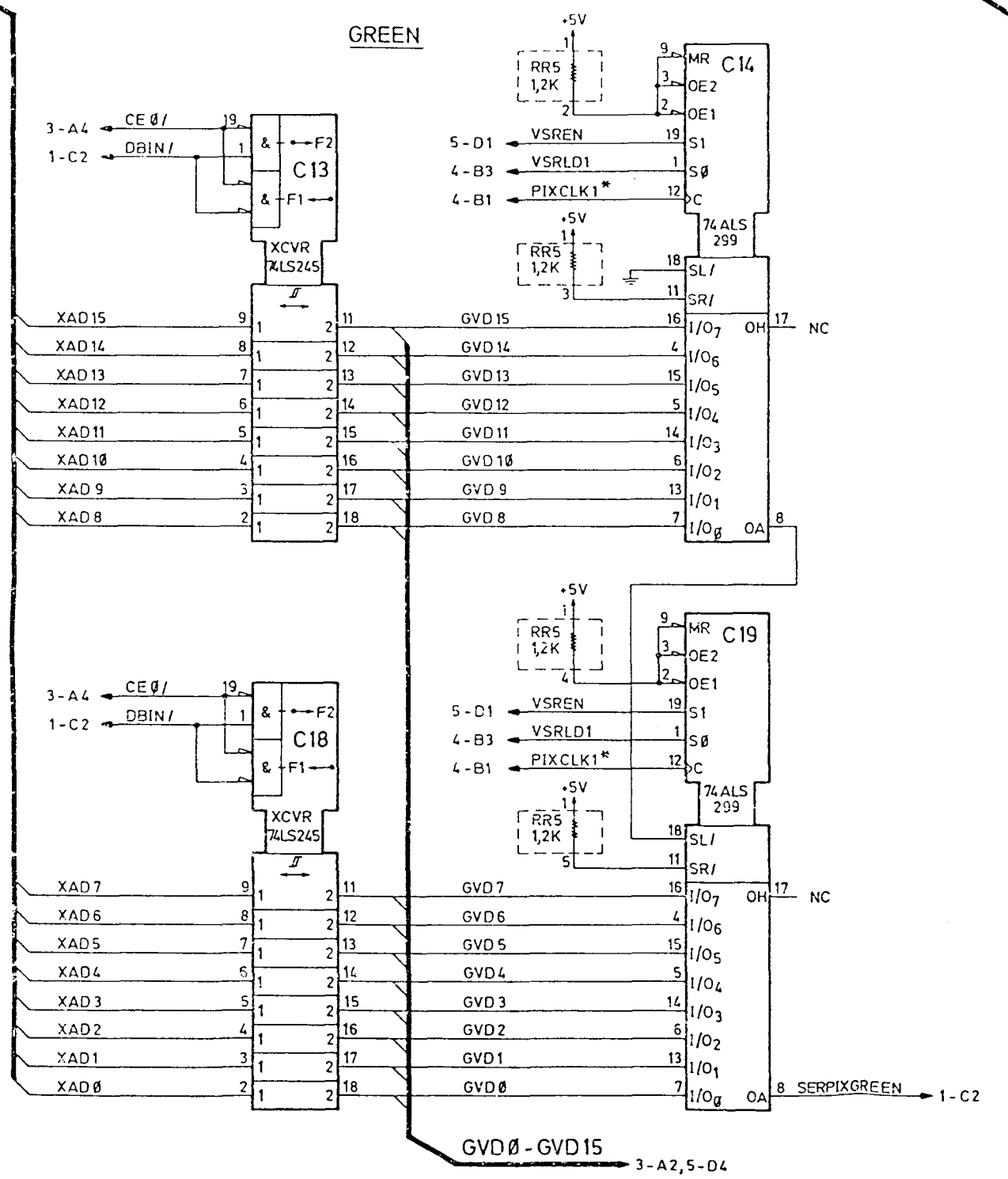
5	6	7	8	9	10	11	12	13	14	15	16

TITLE OF DRAWING: SCHEMATIC-DIAGRAM





1-A1 XAD0 - XAD15

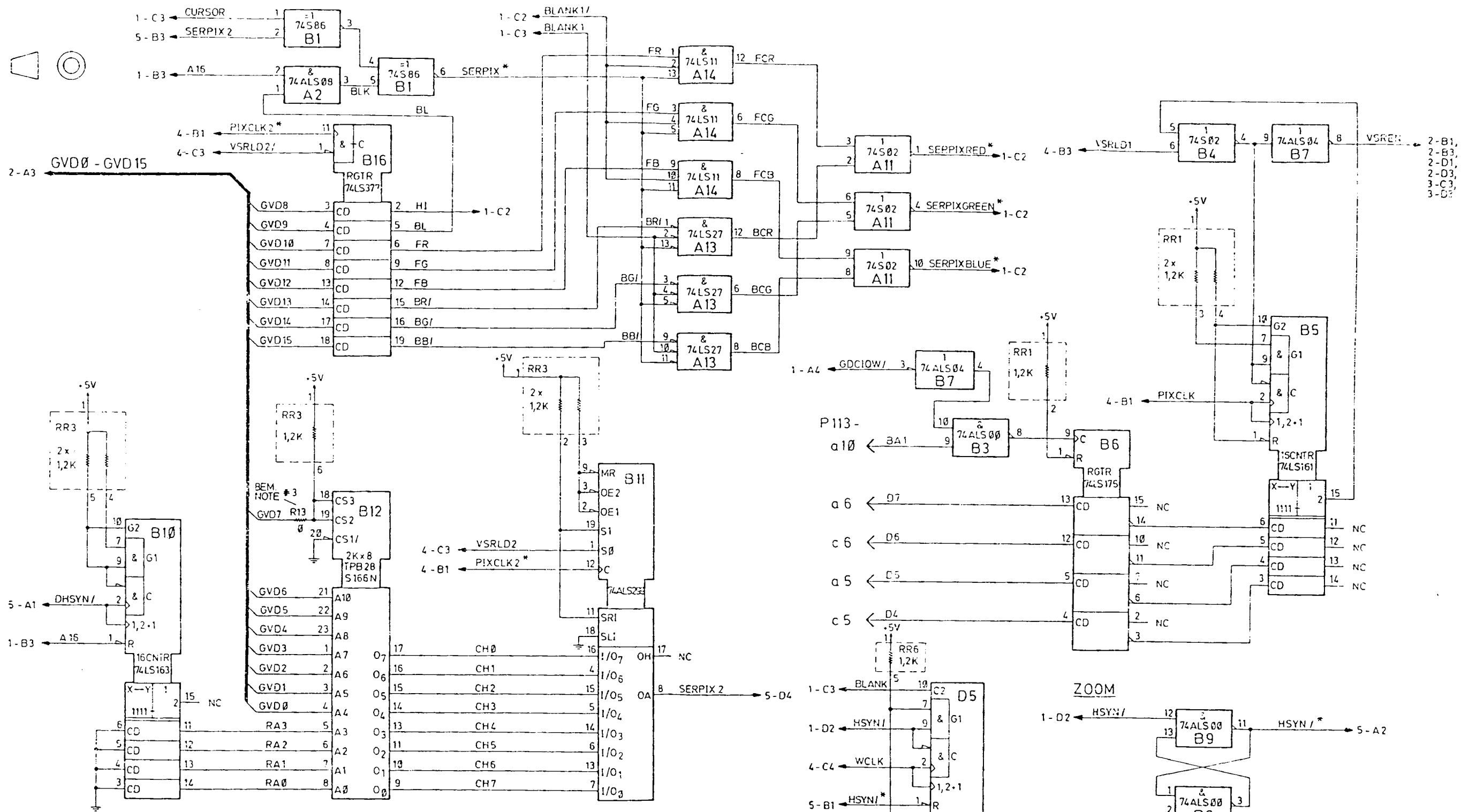


<b>QUALITÄTSANFORDERUNGEN</b> Standard Quality per ES 2 07 01 TOL. WENN NICHT ANDERS ANGEZEIGT, UNLESS OTHERWISE SPECIFIED		<b>WERKSTOFF</b> Material		<b>ÄNDERUNGEN</b> Changes		This document is NCR Intellectual Property and is the property of NCR Corporation. It is to be treated as strictly confidential and not disclosed. Reproduction is prohibited, it may be used only in connection with maintenance and use of the equipment.	
<b>OBERFL. QUAL.</b> Surface Finish	<input checked="" type="checkbox"/> WINKEL Angle	<input type="checkbox"/> mm	<input type="checkbox"/> INCH	<b>OBERFLÄCHENBEHANDL.</b> Coating	<b>KLASSE</b> Class 3273	<b>GEZ. AM. FIRMEN</b> 8.4.1983	<b>NCR</b> NCR GmbH AUGSBURG
<b>MASSTOL.</b> mm NENNMASS. Dimensional Tolerances	<input type="checkbox"/> R.X. R.X.	<input type="checkbox"/> MAX.	<input type="checkbox"/> MIN.	<b>VERBINDUNGSART</b> Joining	<b>GEZ. DR.</b>	<b>GEZ. DR.</b>	<b>NAME</b> SCHEMATIC GRAPHIC CONTR. COLOR
<b>UNBEMASSTE ECKEN</b> Corner Radii	<input type="checkbox"/> INNEN MAX.	<input type="checkbox"/> AUSSEN MAX.	<input type="checkbox"/>	<b>WÄRMEBEHANDL.</b> Heat Treat	<b>ALCENSTR.</b> Designer	<b>GEZ. APPL.</b>	<b>PLATT</b> 2 VON 5
<b>UNBEMASSTE SCHÄRFE KANTEN</b> FASE OD RADIUS HOOK SHARP EDGES	<input type="checkbox"/> MAX.	<input type="checkbox"/>	<input type="checkbox"/>	<b>HARTE</b> Hardness	<b>NORRAGEPR.</b> Appd.	<b>GEZ. DR.</b>	<b>NUMMERN</b> 017-0032489
<b>BOHRUNGEN ENTGRATET.</b> Hole Deburr Depth	<input type="checkbox"/> MAX.	<input type="checkbox"/>	<input type="checkbox"/>	<b>ERSATZ DURCH</b> Suppl. by	<b>ERSATZ FÜR</b> Substitute	<b>GEZ. DR.</b>	









CHARACTER-GENERATOR

SHIFT-REGISTER

# 3 R1-R3, R5-R9, R11, R13; J1, J2; C1, E5 NICHT BESTÜCKT  
R1-R3, R5-R9, R11, R13; J1, J2; C1; E5 NOT MOUNTED

# 2 ALLE WIDERSTANDSWERTE SIND IN OHM  
ALL RESISTANCE VALUES ARE IN OHM

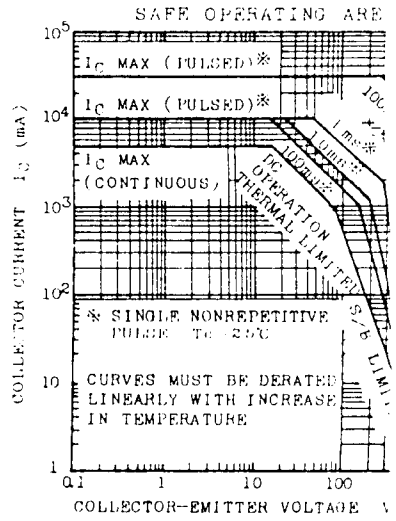
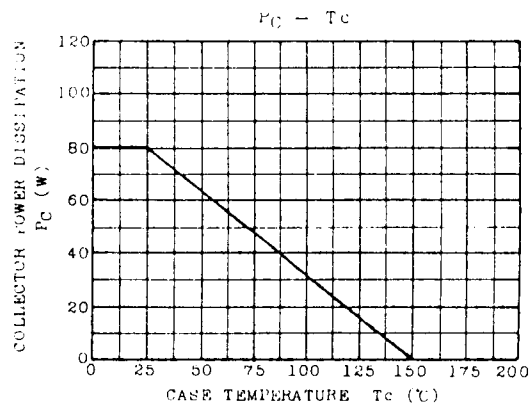
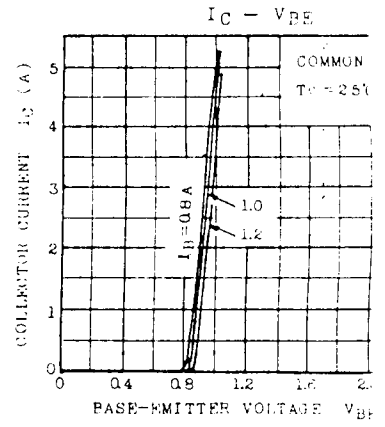
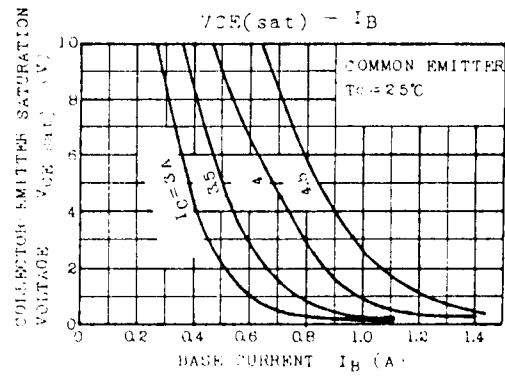
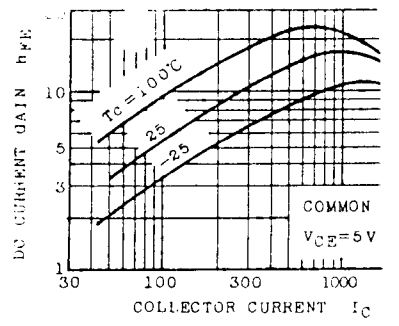
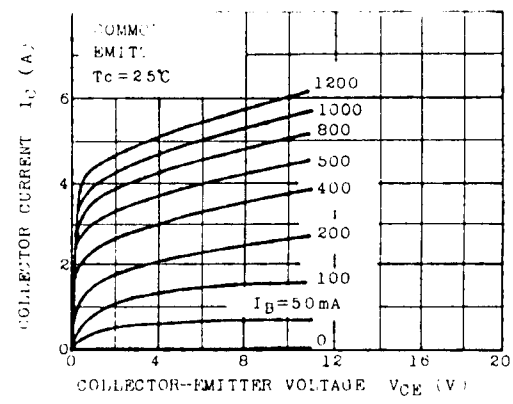
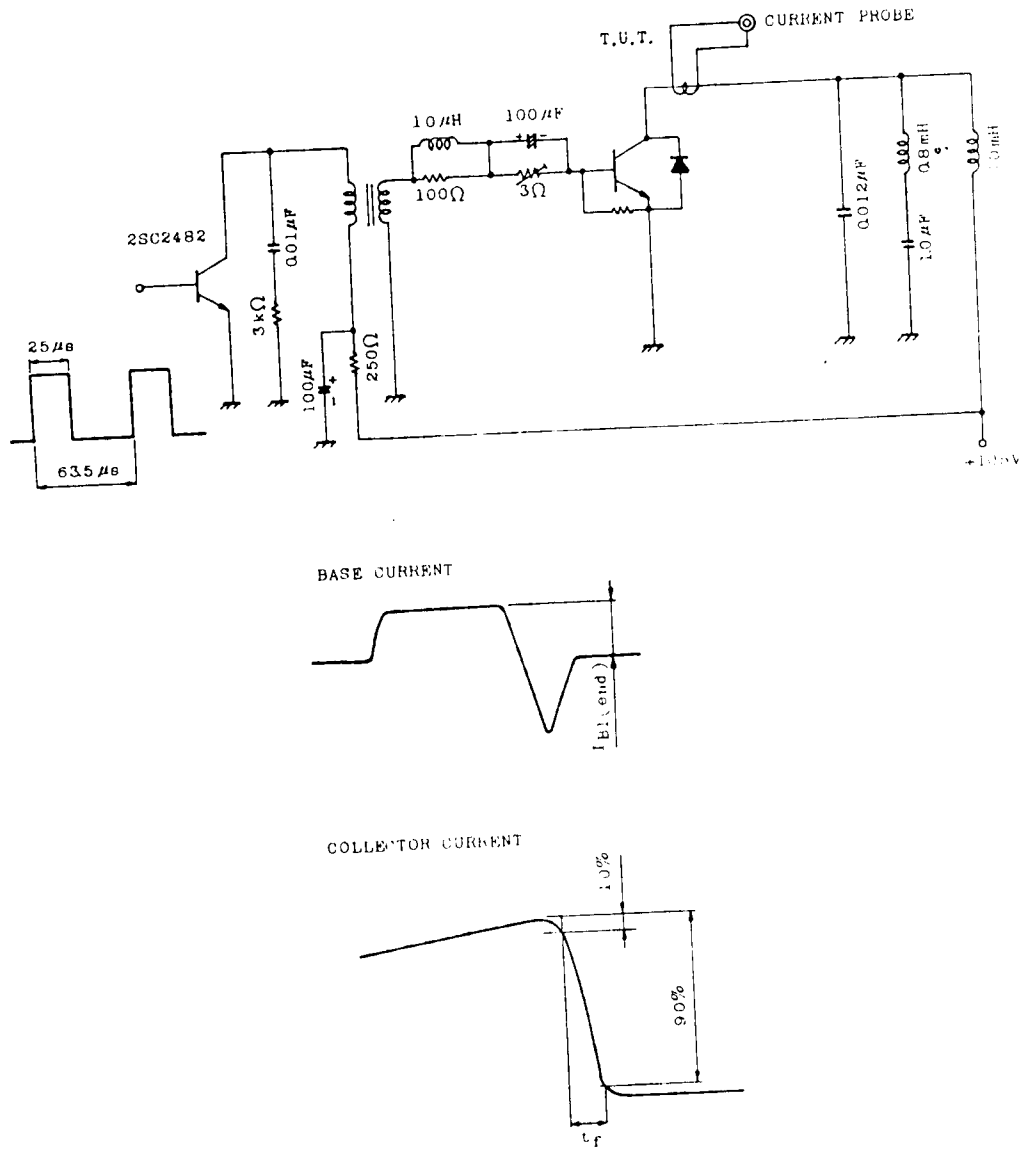
# 1 ASSY C17-0032479-A

NO.	DESCRIPTION	QTY.	UNIT
1	74LS163	1	IC
2	74LS161	1	IC
3	74LS175	1	IC
4	74LS11	4	IC
5	74LS27	4	IC
6	74LS02	4	IC
7	74LS04	2	IC
8	74LS08	2	IC
9	74LS09	2	IC
10	RR1	2	R
11	RR2	2	R
12	RR3	3	R
13	RR6	1	R

DATE: 24.1.1983

5	A 170R01262	2	58
NCR GmbH AUGSBURG			
SCHEMATIC-GRAPHIC CONTR.			
COLOR			
017 0032489			

Fig.  $t_f$  TEST CONDITION



TOSHIBA CORPORATION

TOSHIBA CORPORATION

COLOR TV HORIZONTAL OUTPUT APPLICATIONS.

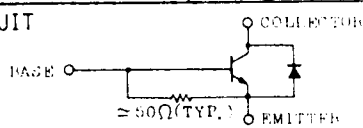
FEATURES:

- High Voltage :  $V_{CBO}=1500V$
- Low Saturation Voltage :  $V_{CE(sat)}=5V(\text{Max.}) (I_C=4A, I_B=0.8A)$
- High Speed :  $t_f=1.0\mu s(\text{Max.})$
- Built-in Damper Type
- Glass Passivated Collector-Base Junction

MAXIMUM RATINGS ( $T_a=25^\circ C$ )

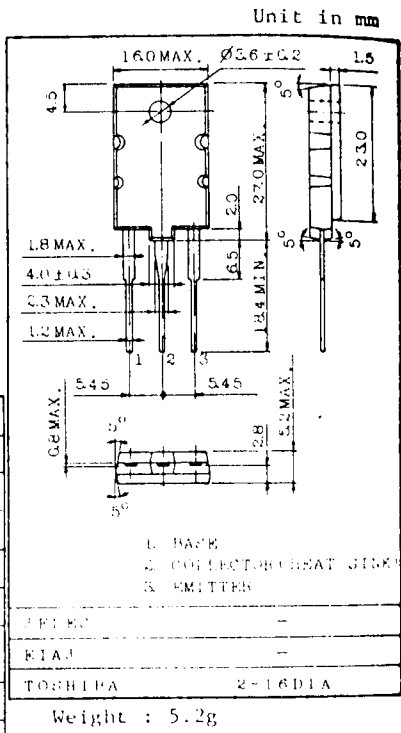
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	1500	V
Collector-Emitter Voltage	$V_{CEO}$	600	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	5	A
Emitter Current	$I_E$	-5	A
Collector Power Dissipation ( $T_c=25^\circ C$ )	$P_C$	80	W
Junction Temperature	$T_j$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55 ~ 150	$^\circ C$

EQUIVALENT CIRCUIT

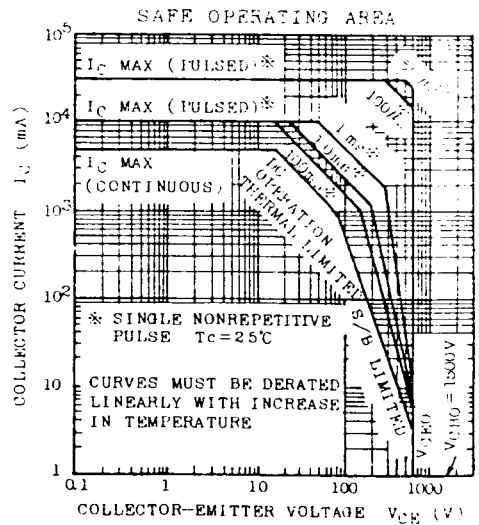
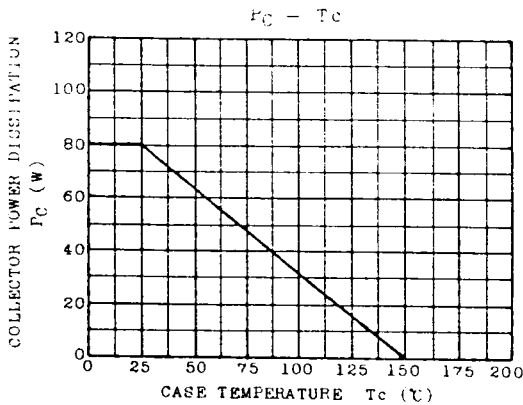
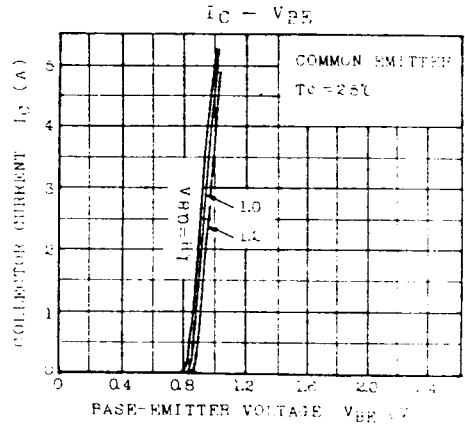
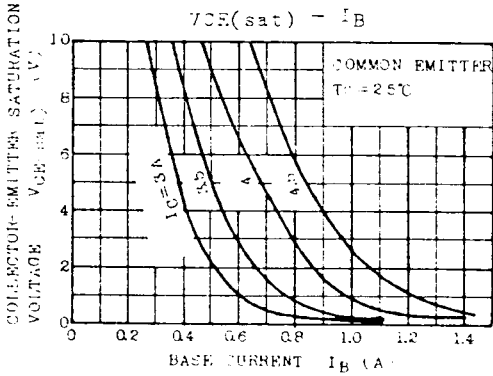
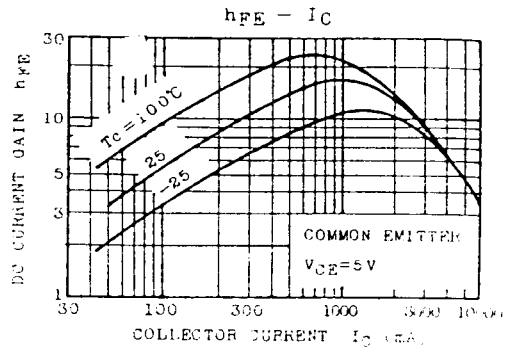
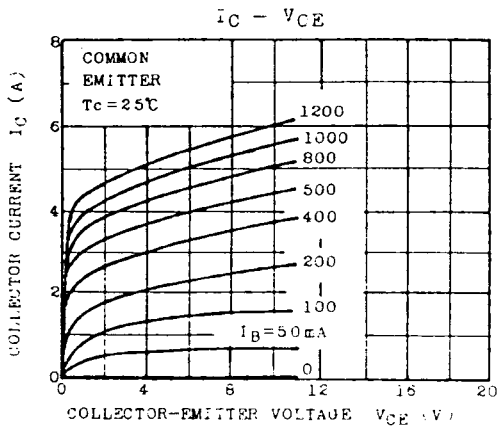


ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )

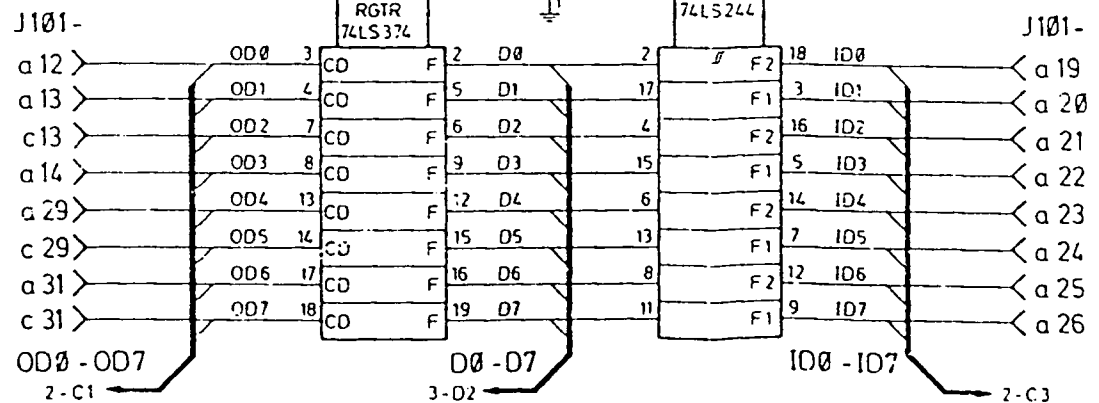
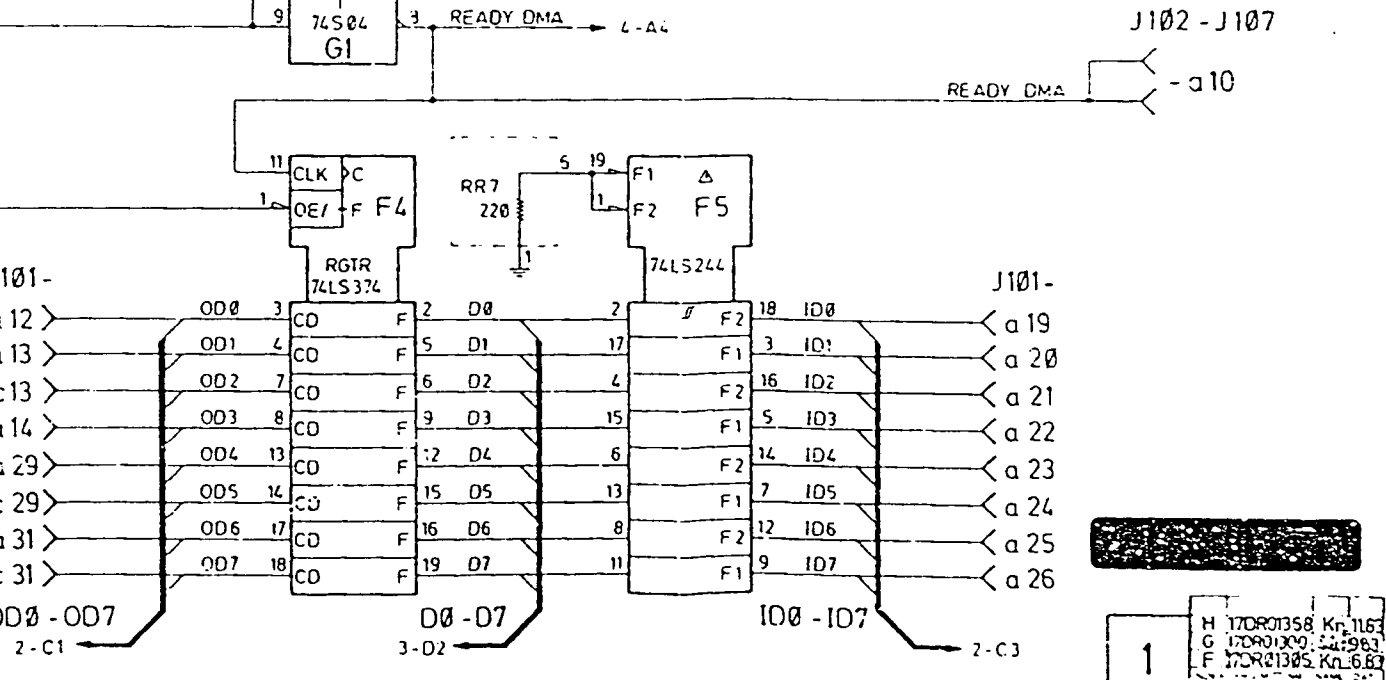
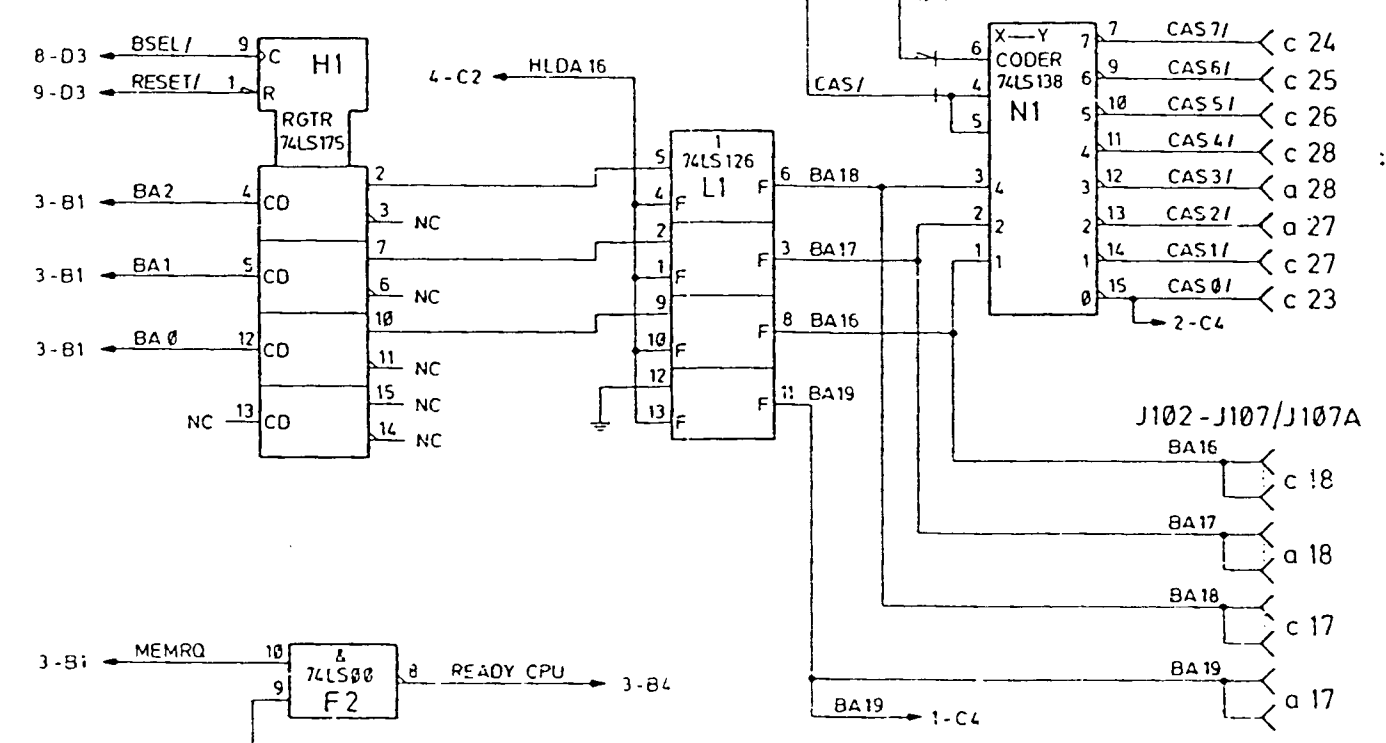
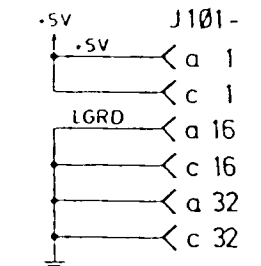
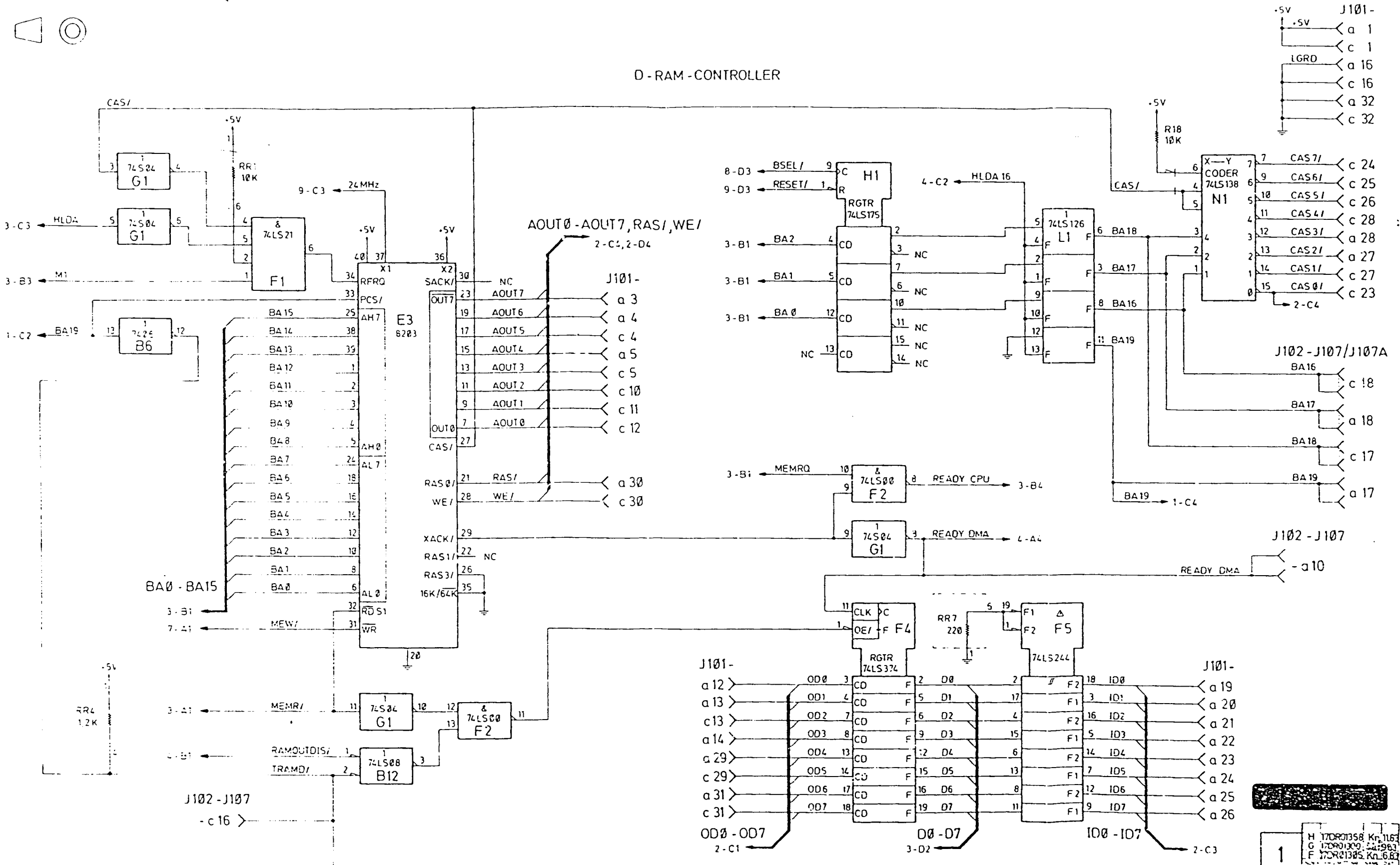
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	1YP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=500V, I_E=0$	-	-	10	$\mu A$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=200mA, I_C=0$	5	-	-	V
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=1.0A$	8	12	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4A, I_B=0.8A$	-	3	5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=4A, I_B=0.8A$	-	-	1.5	V
Forward Voltage (Damper Diode)	$-V_F$	$I_F=5A$	-	1.6	2.0	V
Transition Frequency	$f_T$	$V_{CE}=10V, I_C=0.1A$	-	3	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	165	-	pF
Fall Time (Fig.)	$t_f$	$I_C=4A, I_{B(end)}=0.8A$	-	0.5	1.0	$\mu s$



TOSHIBA CORPORATION



# D-RAM-CONTROLLER

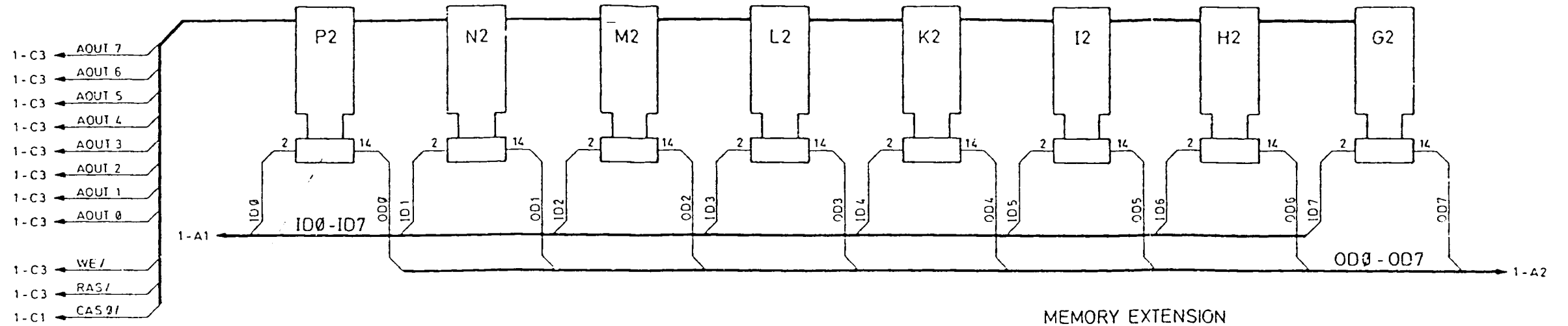


1 H 170R01358 K1-1163  
G 170R01340 K1-983  
F 170R01305 K1-683

3273  
21 10 1982  
MCR Group  
AUGSBURG  
SCHEMATIC CONTROLLER IM 1 X  
W/O GRAPHIC PROC  
017 0032012



D RAM



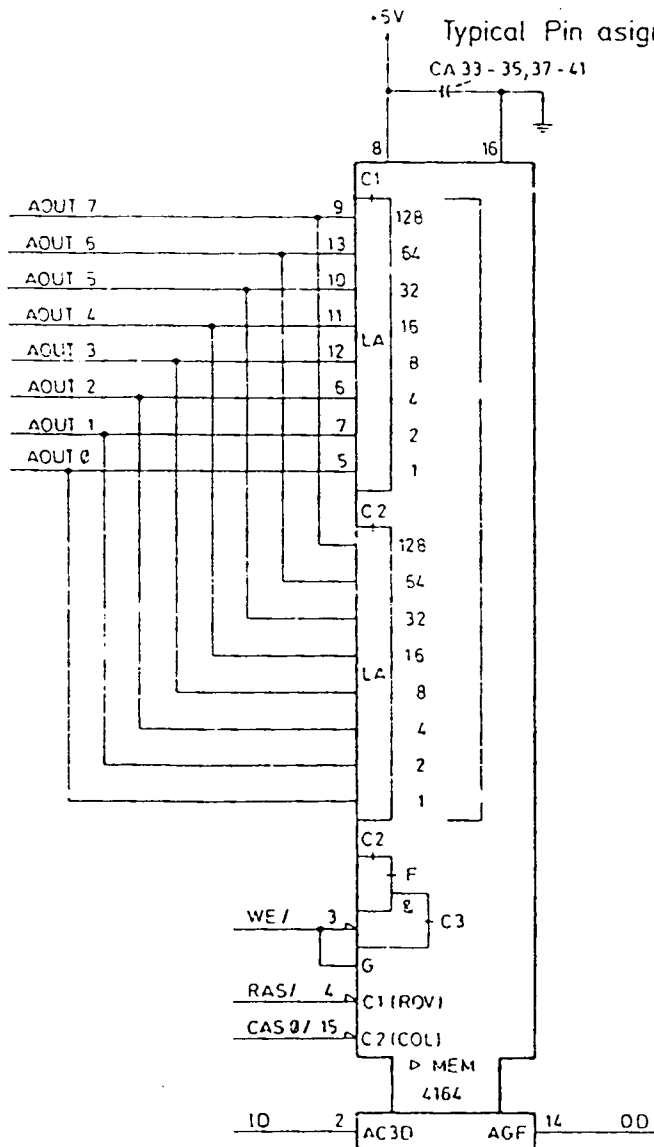
MEMORY EXTENSION

J101

a		c	
1	-5V	1	-5V
2	NC	2	NC
3	AOUT 7	3	NC
4	AOUT 6	4	AOUT 5
5	AOUT 4	5	AOUT 3
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC
9	NC	9	NC
10	NC	10	AOUT 2
11	NC	11	AOUT 1
12	000	12	AOUT 0
13	001	13	002
14	003	14	NC
15	NC	15	NC
16	LGRD	16	LGRD
17	NC	17	NC
18	NC	18	NC
19	100	19	NC
20	101	20	NC
21	102	21	NC
22	103	22	NC
23	104	23	CAS 0 /
24	105	24	CAS 7 /
25	106	25	CAS 6 /
26	107	26	CAS 5 /
27	CAS 2 /	27	CAS 1 /
28	CAS 3 /	28	CAS 4 /
29	004	29	005
30	RAS /	30	WE /
31	006	31	007
32	LGRD	32	LGRD

Typical Pin assignment

CA 33 - 35, 37 - 41

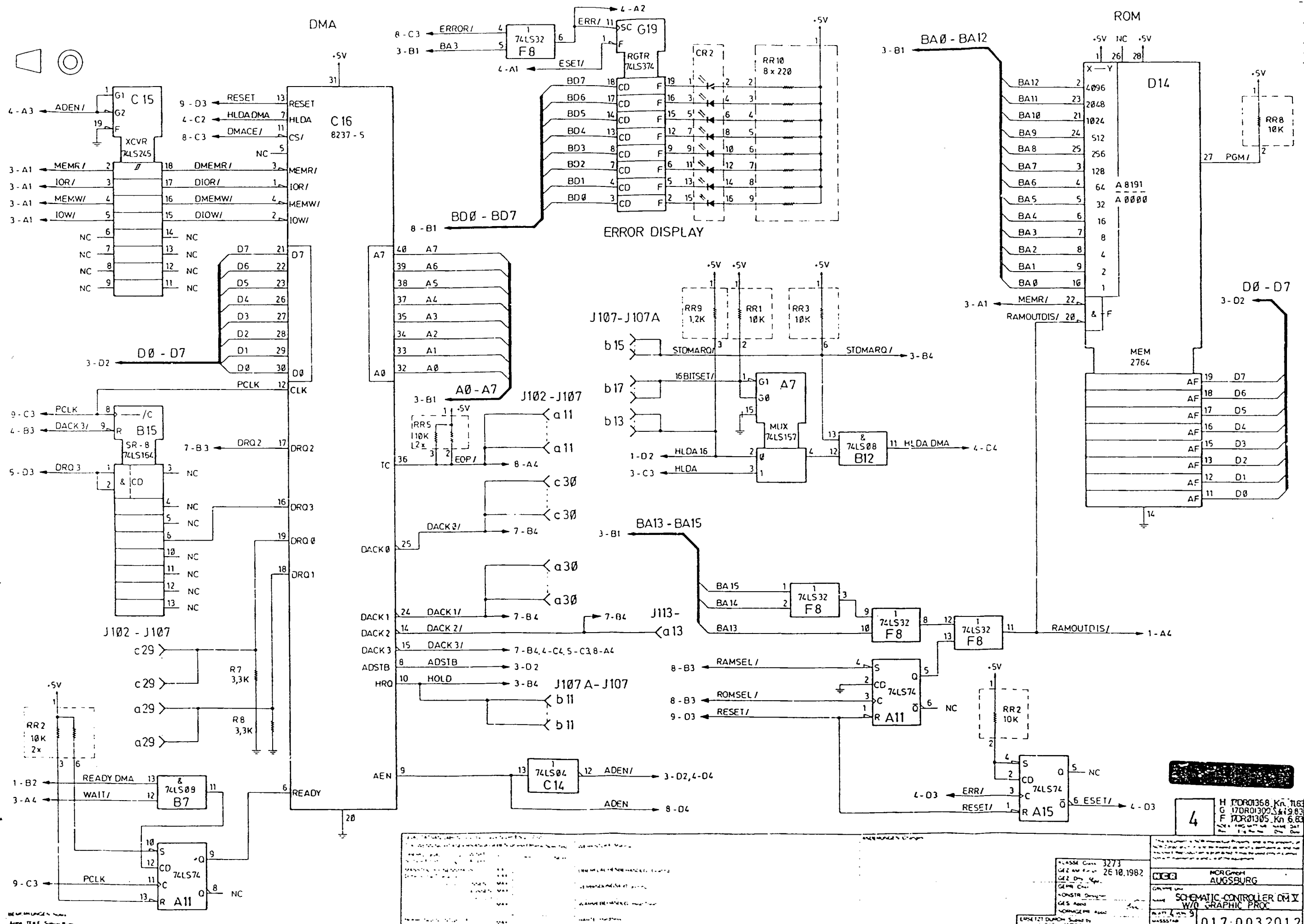


2 H 170R01358, Kn. 1183  
G 170R01300, Kn. 1983  
F 170R01305, Kn. 683

<p>KLASSE C 3273 GEZ. AM 20.10.82 GEPR. CH AONSTR. D... GES. AD... NOMIN... ERSATZ D... ERSATZ P... COOR</p>		<p>MCR GmbH AUGSBURG</p>
<p>SCHEMATIC-CONTROLLER DM X W/O GRAPHIC PROC</p>		<p>017 0032012</p>

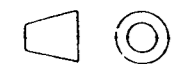




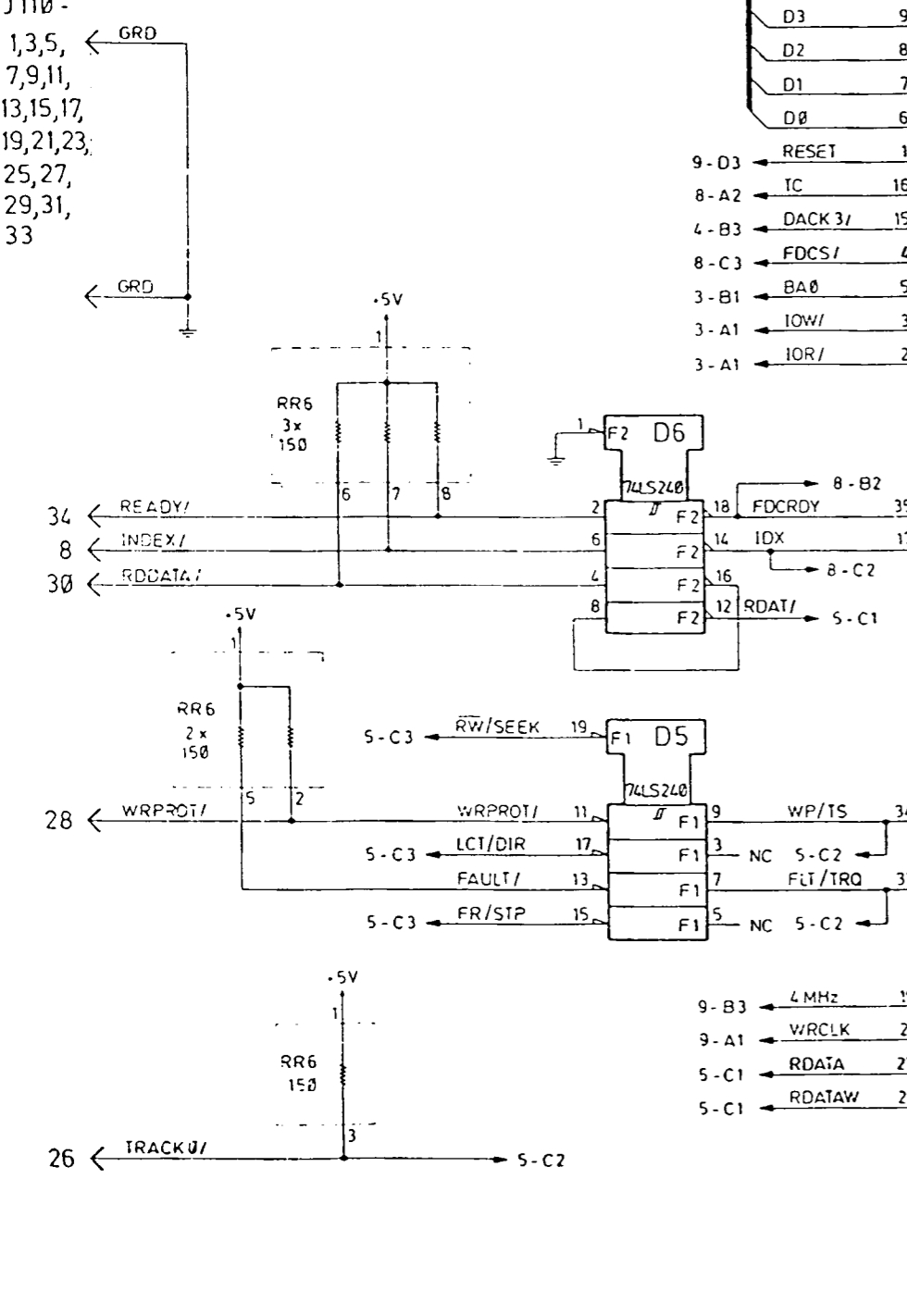


Symbol	Description
C15	74LS245
C16	8237-5
A11	74LS74
A15	8255 PPI
B12	74LS08
B15	74LS164
G19	74LS374
G1	74LS157

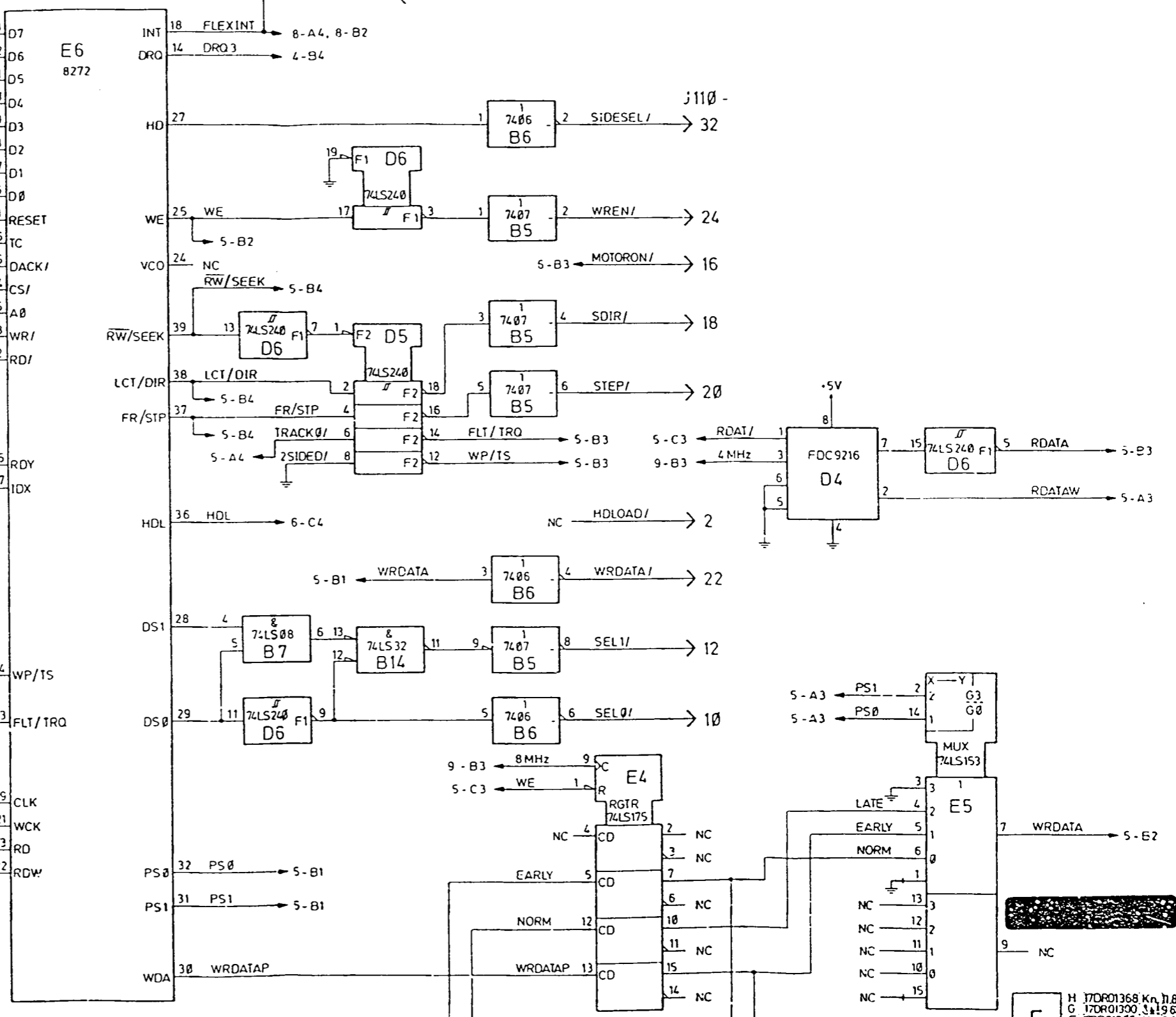
KLASSE: 3273	DATE: 26.10.1982	MOR GmbH AUGSBURG
ZEICHNER: [Name]	PROJEKTLEITER: [Name]	
SCHEMATIC CONTROLLER DMA W/O GRAPHIC PROC		1017-0032012
ERSTELT DURCH: [Name]		



J110 -  
1,3,5,  
7,9,11,  
13,15,17,  
19,21,23,  
25,27,  
29,31,  
33



FLEX DISK CONTR. J107-J107A

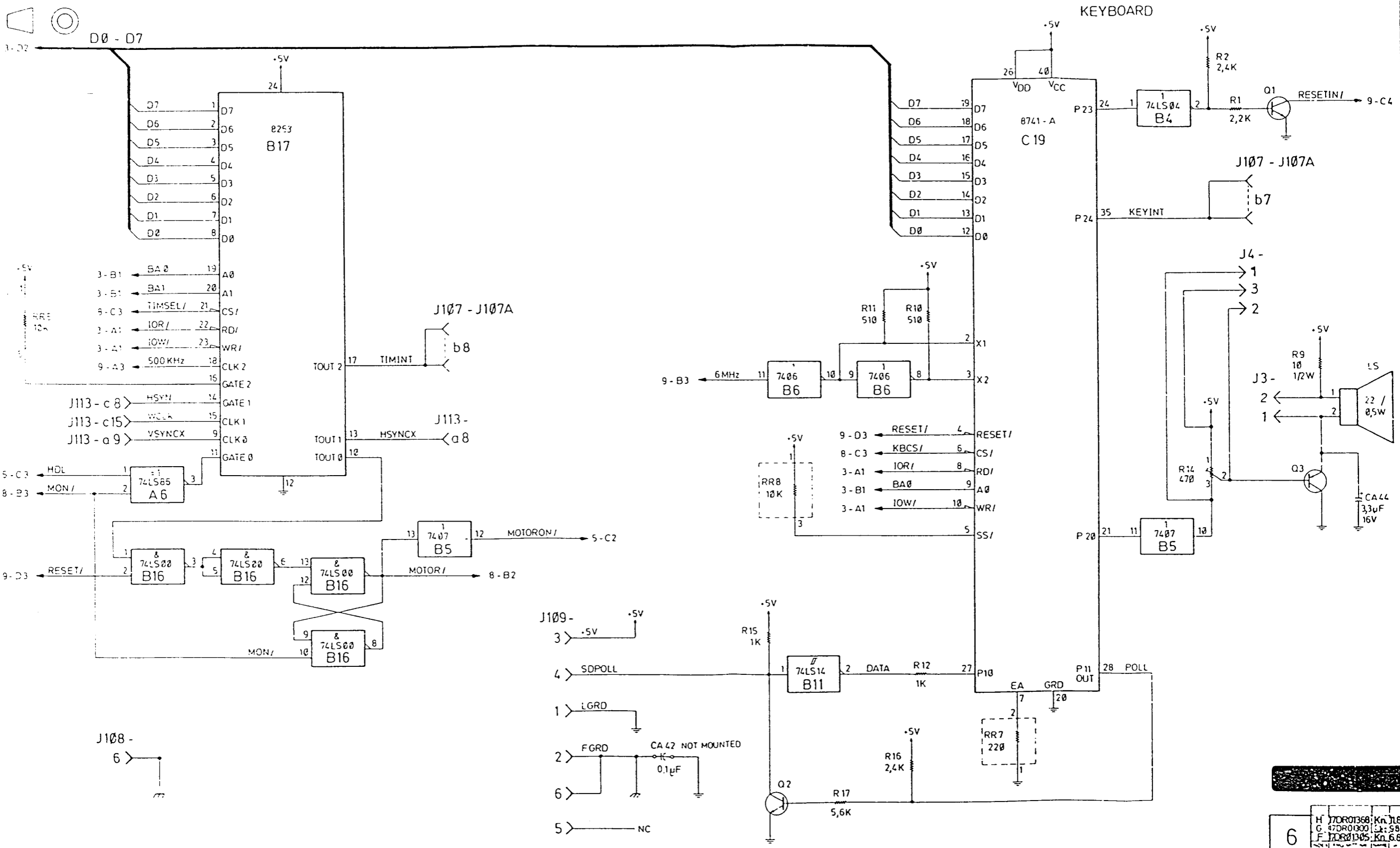


REVISIONEN  
ALTE TEILE

NO. 1	DATE	BY	REVISION

KLASSE 3273  
GEZ AM 26.10.1982  
GEZ DR  
GEPR C  
AD-STR  
DES ROO  
NOMINALE  
EINSETZ DURCH  
EINSETZ FÜR

H 17DR01368 Kn. 11.83  
G 17DR01300 Kn. 19.63  
F 17DR01305 Kn. 6.83  
SCHEMATIC-CONTROLLER DMX  
W/ GRAPHIC PROC  
017-0032012



6  
 H 170R01368 Kn 1.83  
 G 470R01300 Kn 9.83  
 F 170R01365 Kn 6.63

DATE: 27.10.1982	3273
NCR Group AUGSBURG	
SCHEMATIC CONTROLLER DM X	
W/O GRAPHIC PROC	
BLATT 6 von 9	
MASSSTAB	
CODE	
017-0032012	



NOT MOUNTED

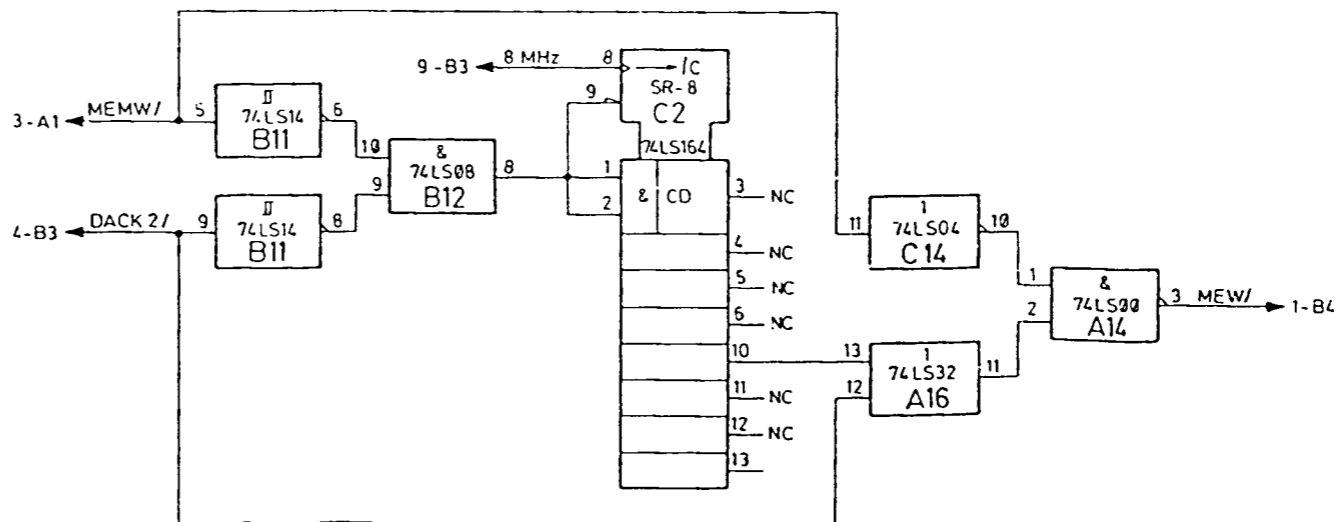
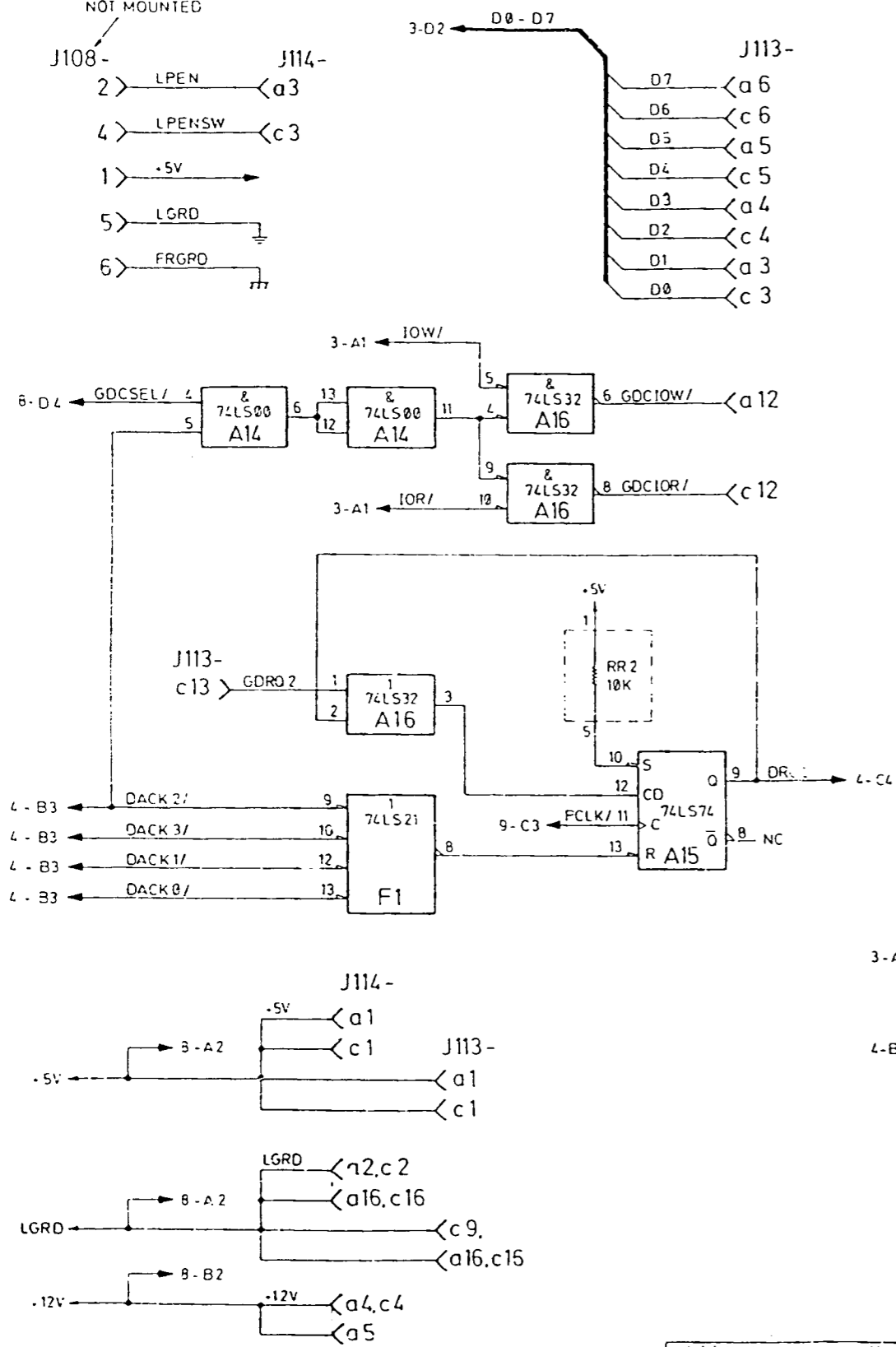
TO GRAPHIC BOARD

J114

J113

a		c
.5V	1	.5V
LGRD	2	LGRD
LPEN	3	LPENSW
+12V	4	+12V
+12V	5	NC
NC	6	NC
NC	7	NC
NC	8	NC
NC	9	NC
NC	10	NC
NC	11	NC
NC	12	NC
NC	13	NC
NC	14	NC
NC	15	LGRD
LGRD	16	LGRD

a		c
.5V	1	.5V
NC	2	NC
D1	3	D0
D3	4	D2
D5	5	D4
D7	6	D6
NC	7	NC
HSYNX	8	HSYN
VSYNX	9	LGRD
BA1	10	BA0
BLINK	11	NC
GDCIOW/	12	GDCIOR/
DACK 2/	13	GDRQ 2
NC	14	NC
NC	15	WCLK
LGRD	16	LGRD



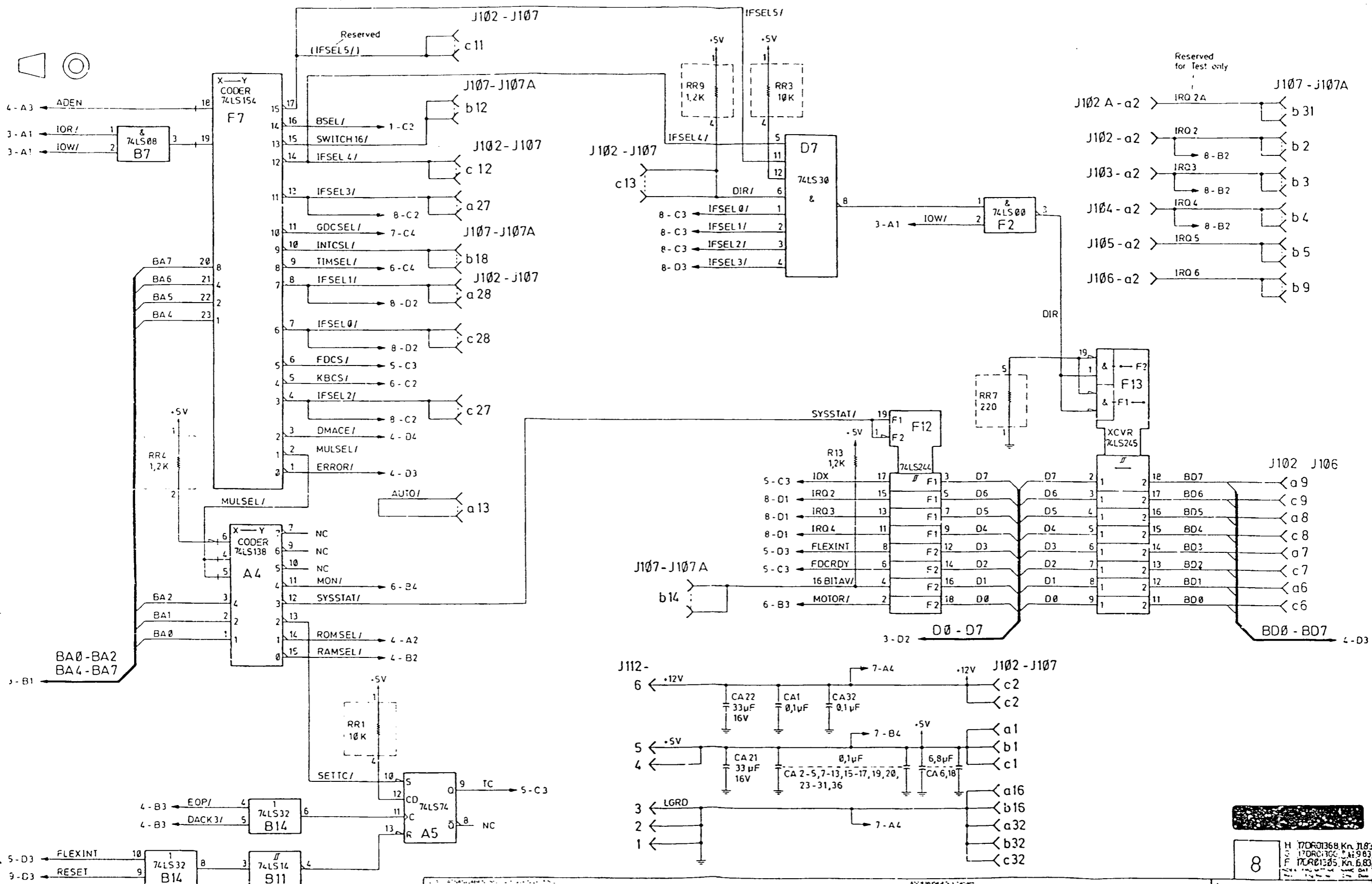
7 H 170R01368, Kn. 11.83  
G 170R01300, Kn. 9.63  
F 170R01305, Kn. 6.83

BEWEISUNGEN WAER  
ALLE TEILE SIND PER

NO.	DESCRIPTION	QTY	UNIT
1	74LS00	1	IC
2	74LS32	1	IC
3	74LS21	1	IC
4	74LS74	1	IC
5	74LS14	1	IC
6	74LS08	1	IC
7	74LS164	1	IC
8	74LS04	1	IC
9	74LS32	1	IC

PLEASE Class 3273  
GE 2nd Floor 18.1.53  
GE 2nd Floor 18.1.53  
NCR GmbH  
AUGSBURG

SCHEMATIC CONTROLLER DMS  
W/O GRAPHIC PROC  
017-0032012



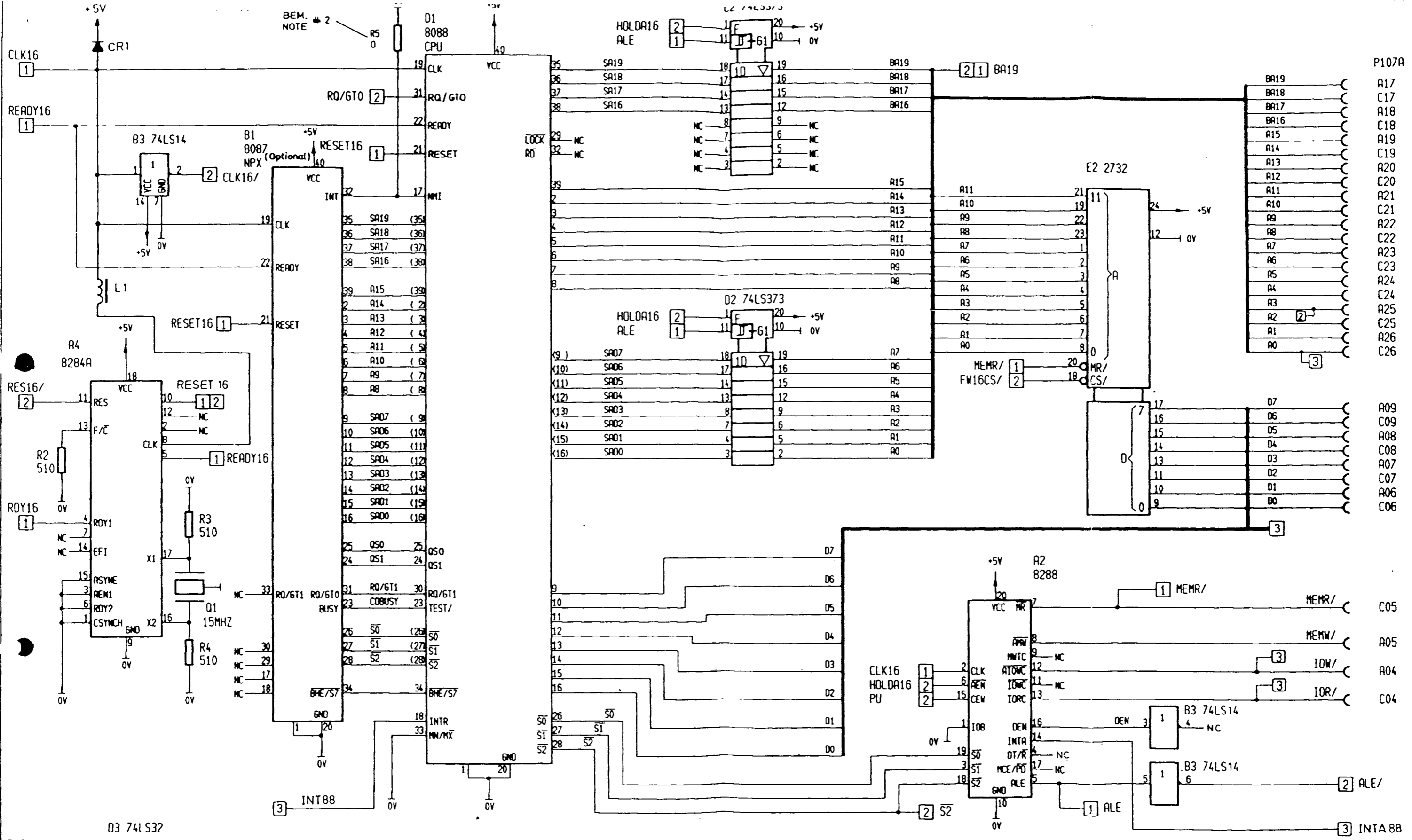
8 H 17DR01368 Kn. 118  
 G 17DR01368 Kn. 983  
 F 17DR01368 Kn. 680

PLASSE 3273  
 02.11.1982  
 MCR GmbH  
 AUGSBURG

MCR GmbH  
 AUGSBURG  
 SCHEMATIC CONTROLLER DMX  
 W/O GRAPHIC PROC  
 017 0032012

NAME: SCHEMATIC CONTROLLER DMX W/O GRAPHIC PROC DATE: 017 0032012	PLASSE 3273 02.11.1982 MCR GmbH AUGSBURG
---	---





\* 3 ALLE WIDERSTANDSWERTE SIND IN OHM  
ALL RESISTANCE VALUES ARE IN OHM

\* 2 R5 ENTFALLT, WENN IC B1 (8087) BESTÜCKT IST.  
DELETE R5, IF IC B1 (8087) IS MOUNTED.

REM /NOTE # 1 ASSY 017.0033501 - A

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KLASSE: 373	GEZÄM: 801-84	DESK: 001	NAME: SCHEMATIC 16 BIT PARALLEL INTERRUPT CONTROLLER-8088
GEZ. Dis: 3	KONSTR. Designer: [Signature]	BLATT: 1 VON 3	MASSTAB: 017-0033502
REV: 17DR0143	DATE: 2.87	ERSETZT DURCH: Super	CODE: 017-0033502
REV. DEV. REL. NO. NAME DATE	017-0032001		

