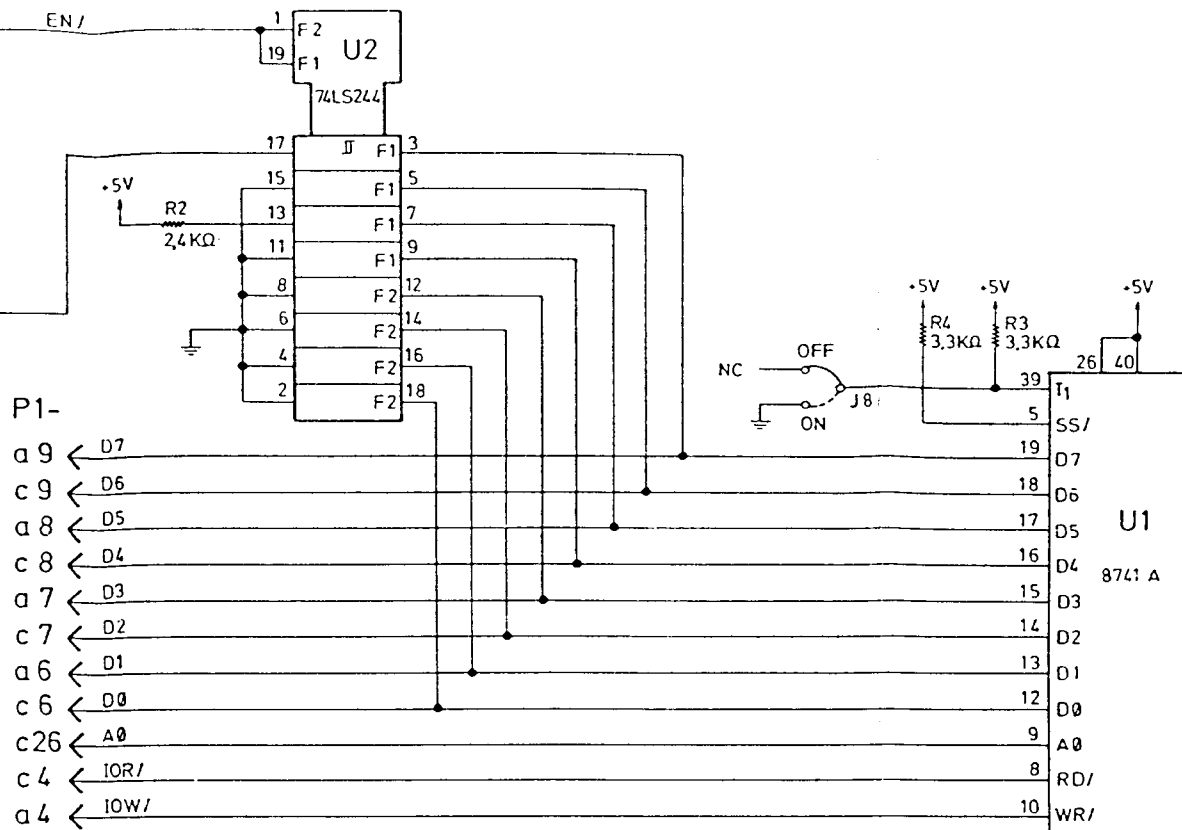
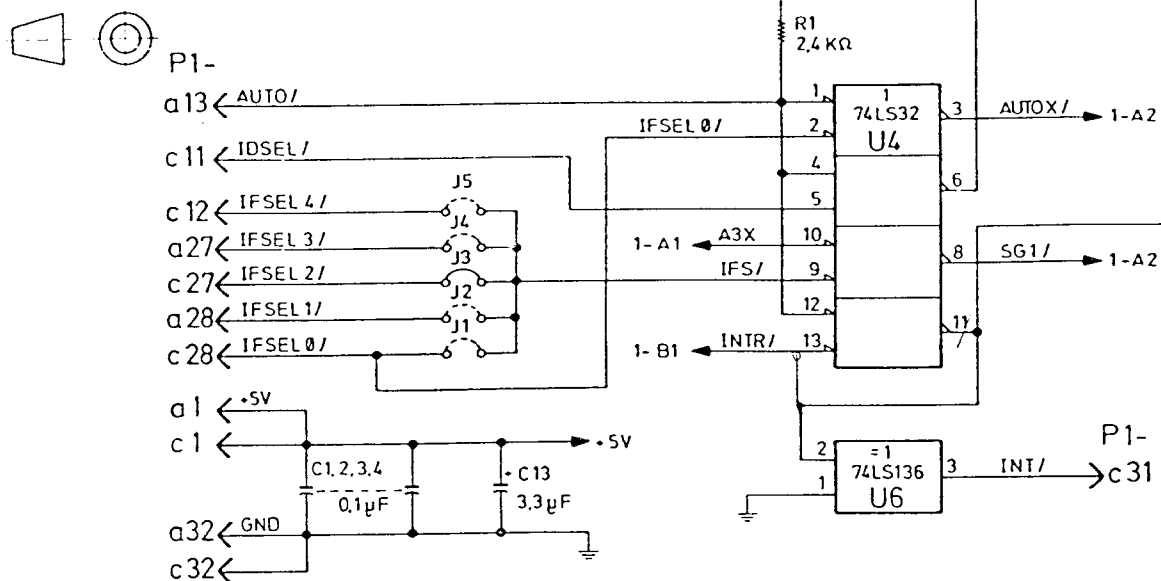


\* 1 ASSY - NO.: 017-0033572 - A  
 BEMERKUNGEN Notes  
 ANMERKUNGEN Remarks

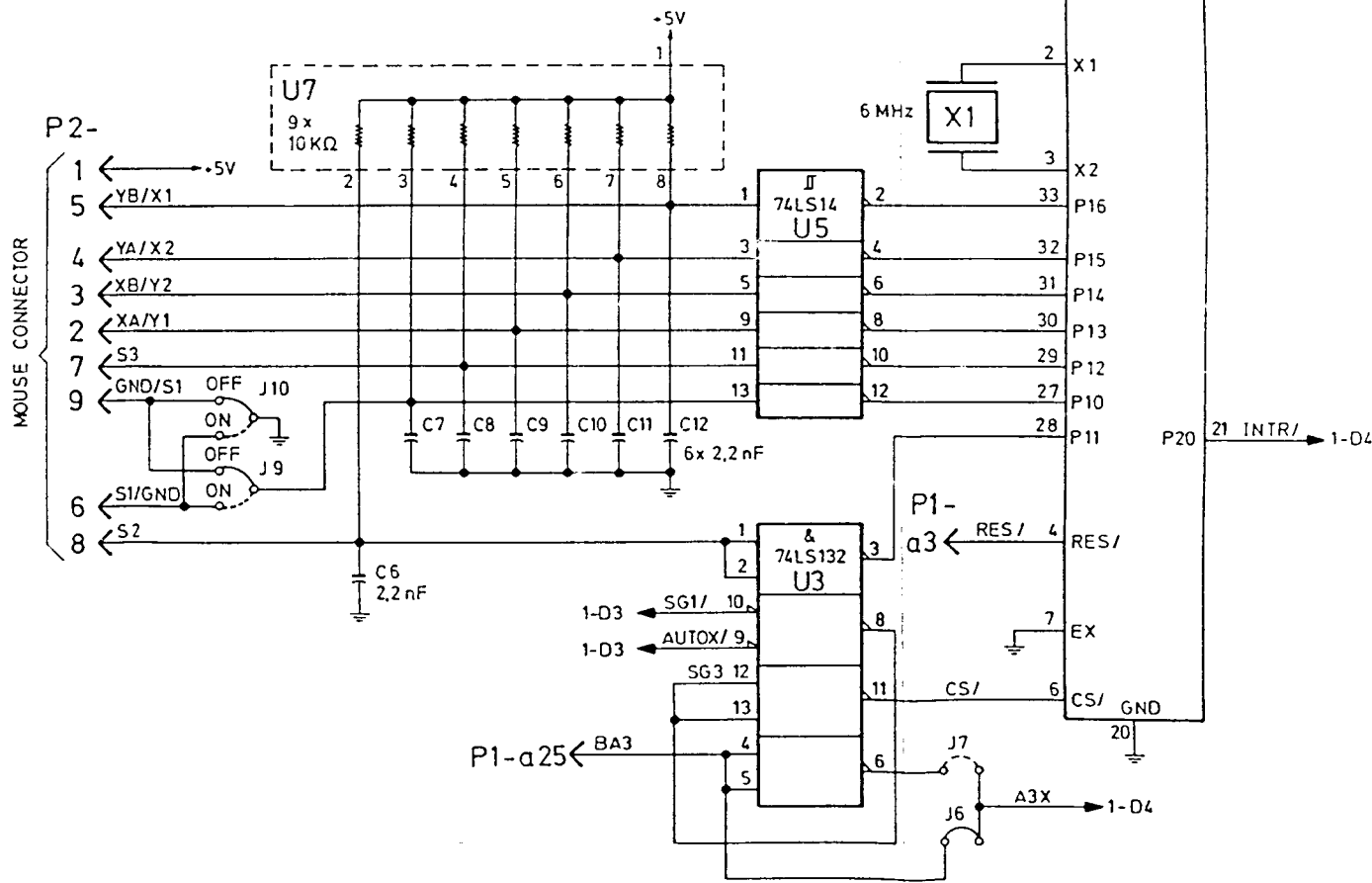
ÄNDERUNGEN Changes  
 WERKSTOFF Material  
 QUALITÄTSANGABEN: Standard Quality per CES 107 01  
 TOL. WENN NICHT ANGEGEBEN, Unless Otherwise Specified  
 OBERFL. DUAL Surface Finish  
 MASSSTAB mit NEIGUNGSWINKEL Dimensional Tolerances  
 UNBEMASSTABTE RADEN Profile  
 UNBEMASSTABTE SCHÄRFE KANTEN RASE OR RADII Break Sharp Edges  
 OBERFLÄCHENBEHANDLUNG Coating  
 WÄRMEBEHANDLUNG Heat Treat  
 HARTE HÄRDEHÄRTE  
 KLASSE CLASS 3273  
 GEZ. AM Finish 10.5.84  
 GEZ. Dts. 3ppr.  
 ERSETZT DURCH S. and by  
 ERSETZT FÜR Substitutes  
 © NCR 198 4  
 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             |



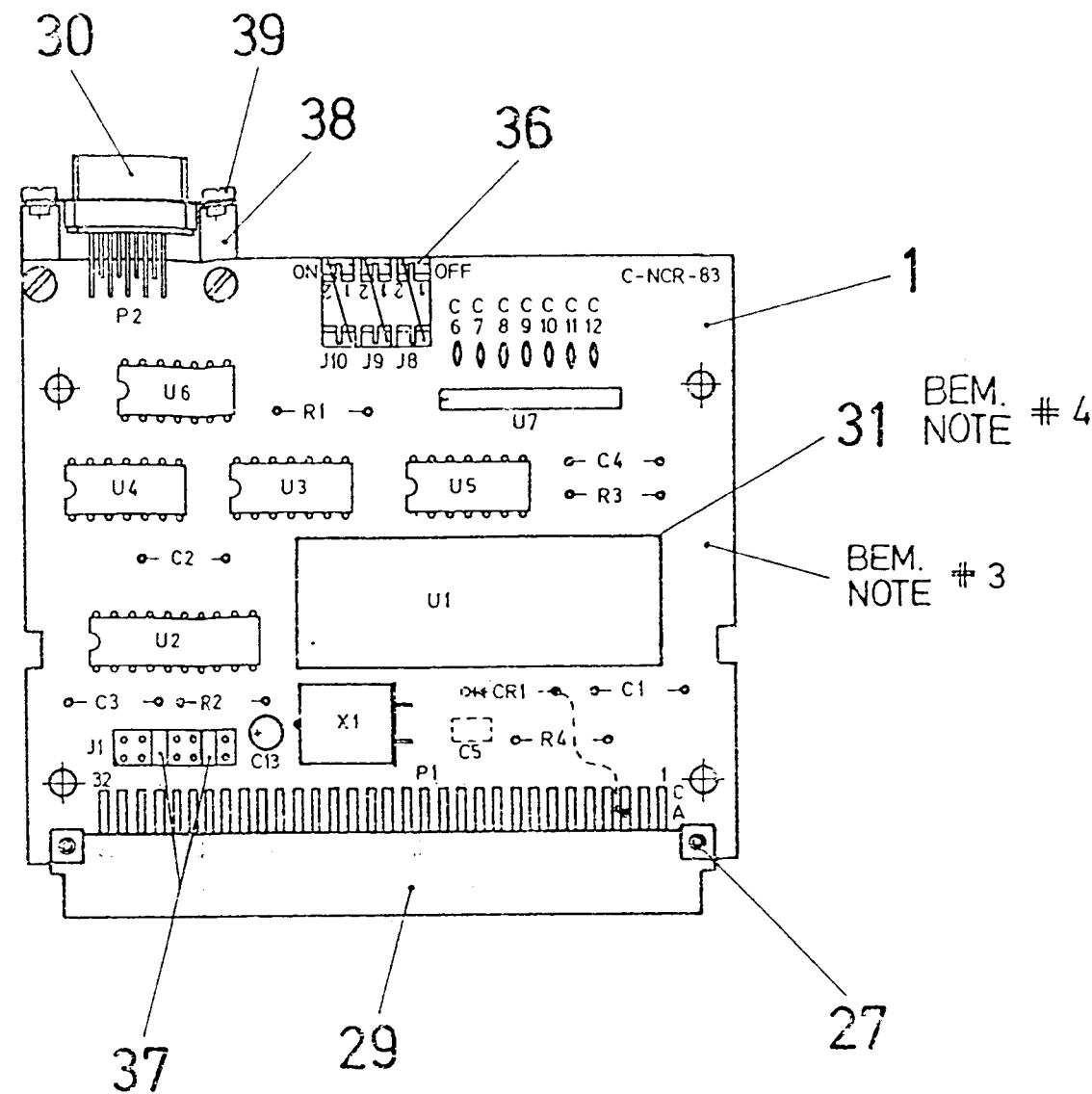
♦2 J8, J9, J10 GEZEICHNET/DRAWN IN POS. OFF  
 ♦1 ASSY-NO. 017-0032816-A

| 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 if 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 |  | ERSETZT DURCH/ Superseded by |  | KLASSE Class: 3273  |  |
| MASSTOL. nach NEN/MASS. Dimensional Tolerances: ±X                |                  |    |      | VERBINDUNGSART, Joining:     |  | ERSETZT DURCH/ Superseded by |  | GEZ. AM. Finish: 31.8.1983  |  |
| UNBEMASSTE ECKEN Corner Radii: INNEN MAX. AUSSEN MAX.             |                  |    |      | WÄRMEBEHANDLG. Heat Treat:   |  | ERSETZT DURCH/ Superseded by |  | GEPR. Char: 26  |  |
| UNBEMASSTE SCHARFE KANTEN Break Sharp Edges: FASE OD. RADIUS MAX. |                  |    |      | HARTE Hardness:              |  | ERSETZT DURCH/ Superseded by |  | GEPR. STR. Designer: NCR  |  |
| BOHRUNGEN ENTGRÄTET Hole Deburr Depth: MAX.                       |                  |    |      |                              |  | ERSETZT DURCH/ Superseded by |  | NORMGEPR. Appld: 1/1  |  |
| BEMERKUNGEN, Notes:   |                  |    |      |                              |  | ERSETZT DURCH/ Superseded by |  | BLATT von: 108  |  |
| ÄHNL. TEILE, Similar Parts:                                       |                  |    |      |                              |  | ERSETZT DURCH/ Superseded by |  | MASSTAB: 1:1  |  |
|   |                  |    |      |                              |  | ERSETZT DURCH/ Superseded by |  | CODE: 017-0032824   |  |

# 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:

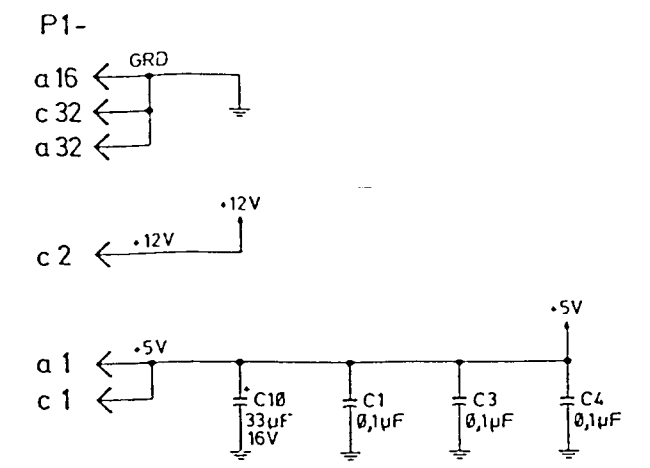
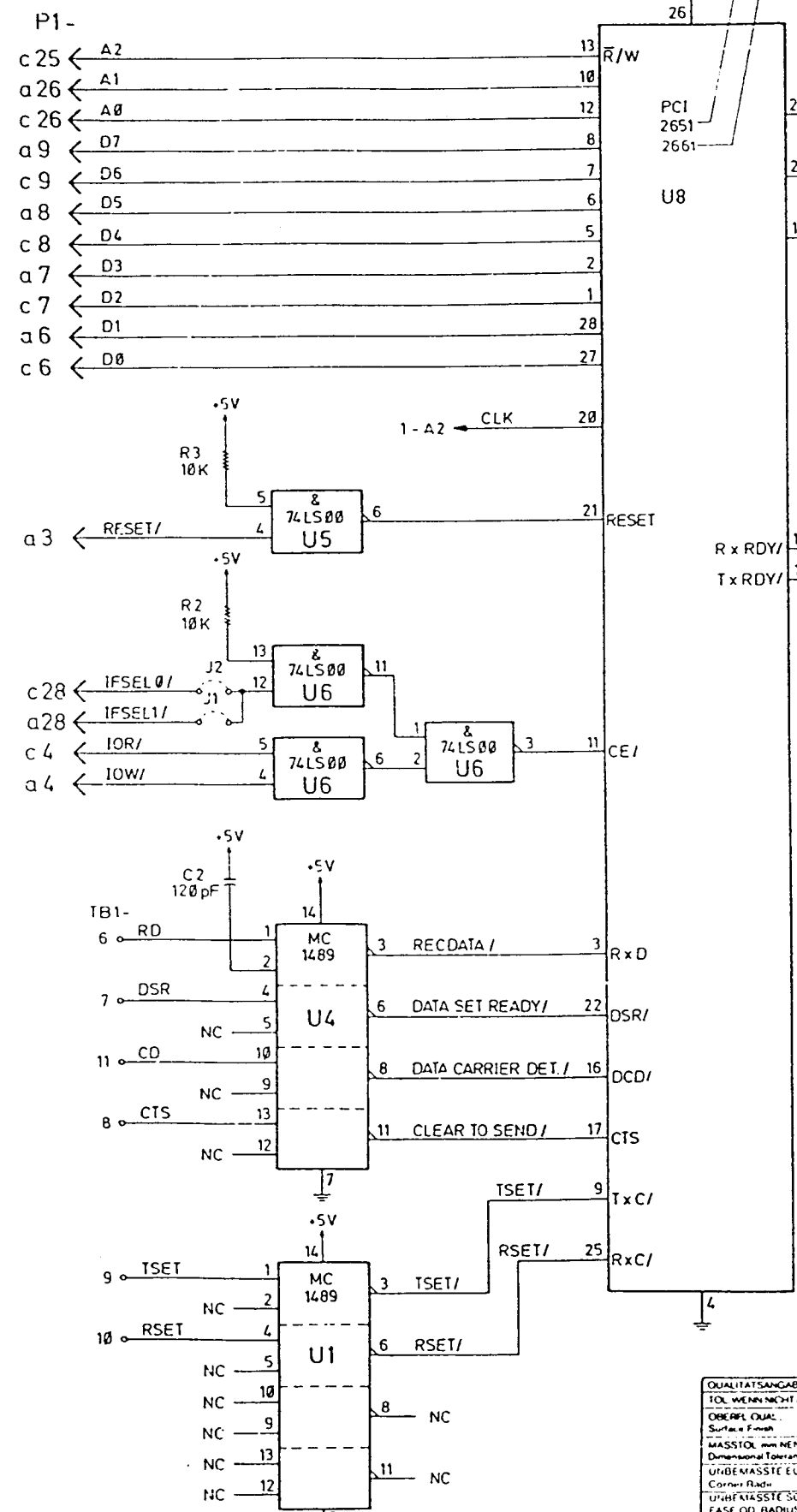
ÄHNL. TEILE Similar Parts:

|  |                                |                               |                      |  |  |
|--|--------------------------------|-------------------------------|----------------------|--|--|
| 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 ANGEGEBEN; 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 RADIIEN: 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. Dfts.: Gp.               | KONSTR. Designer: Xu | MASSTAB: 1:1   |  |
|  |                                | ERSETZT DURCH Supsd. by:      |                      | 017-0032816  |  |
|  |                                | ERSATZ FÜR Supersedes:        |                      | CODE: -  |  |









JUMPER STRAPPING

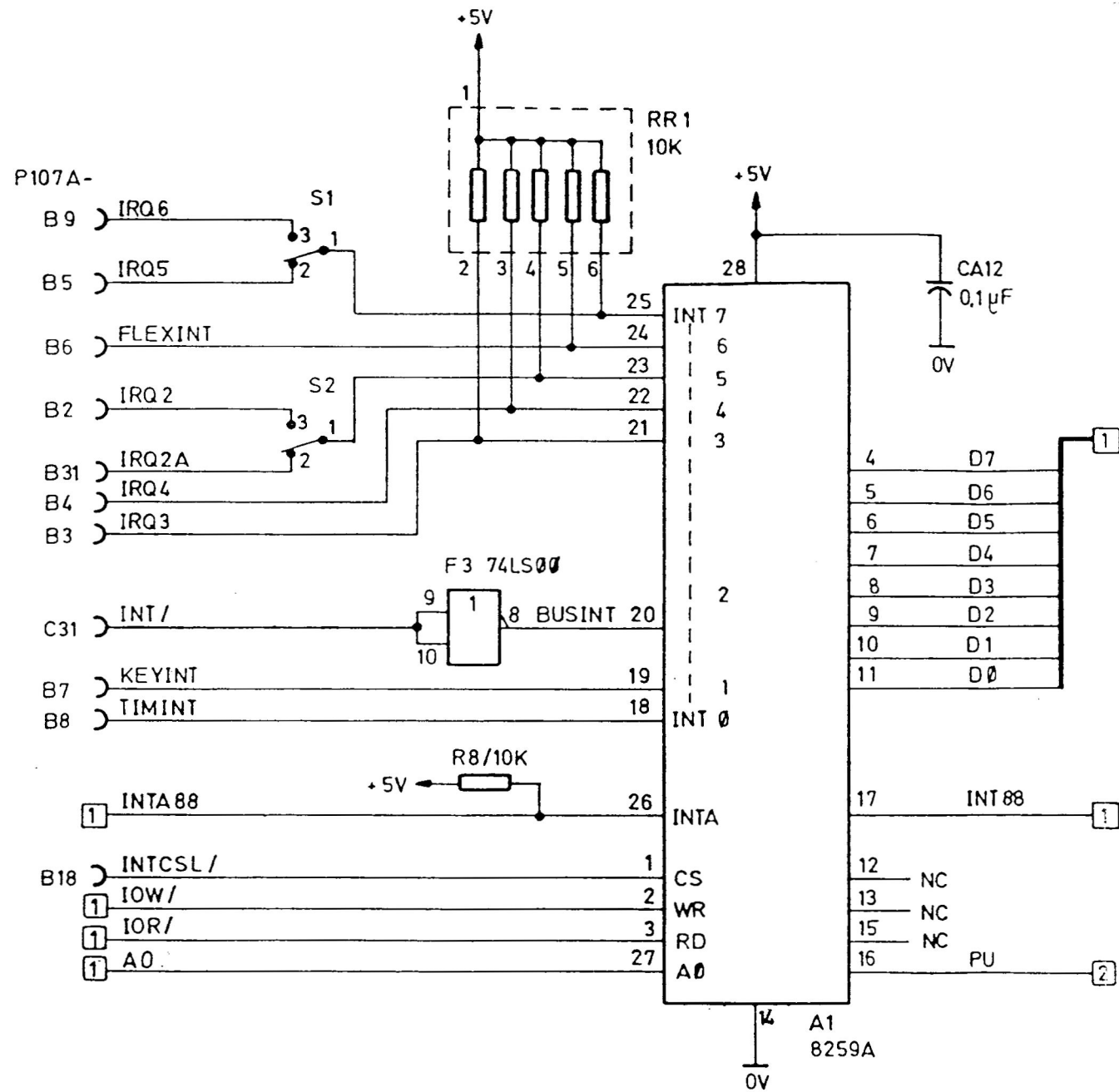
|    |        |                           |
|----|--------|---------------------------|
| J2 | closed | for K 212 (Printer Cable) |
| J1 | closed | for K 211 (Modem Cable)   |
| J2 | closed | for K 213 (Plotter Cable) |

\* 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           | WEKSTOFF                      |  |                               |  |   |  |
| OBERFL. QUAL. Surface Finish                                  | WINKEL Angles          | UBERFLACHENBEHANDLUNG Coating |  |                               |  |   |  |
| MASSSTOL. nom. NENNMASS Dimensional Tolerances                | R.X.X.                 | VERBINDUNGSART Joining        |  |                               |  |   |  |
| UNDEMSASTE ECKEN Corner Radii                                 | INNEN MAX. AUSSEN MAX. | WÄRMEBEHANDLUNG Heat Treat    |  |                               |  |   |  |
| UNHEFTASSTE SCHNITTE KANTEN FASE OD RADIUS Broken Sharp Edges | MAX.                   | HARTE Hardness                |  |                               |  |   |  |
| BOHRUNGEN ENTGRATET Hole Deburr Depth                         | MAX.                   |                               |  |                               |  |   |  |
| GEZ. AM. Finish: 19.10.1982                                   |                        |                               |  | KONSTR. Designer: [Signature] |  | NAME: SCHEMATIC-RS 232 INTERFACE  |  |
| GEZ. DRA. [Signature]   |                        |                               |  | GES. Appl. [Signature]        |  | BLATT: VON MASSSTAB   |  |
| NACHGEPR. Appd  |                        |                               |  | ERSATZ FÜR Supersedes         |  | CODE  |  |
|   |                        |                               |  |                               |  | 017-0031865   |  |

BEZEICHNUNGEN Name  
 ANNE TERKE Senior Parts

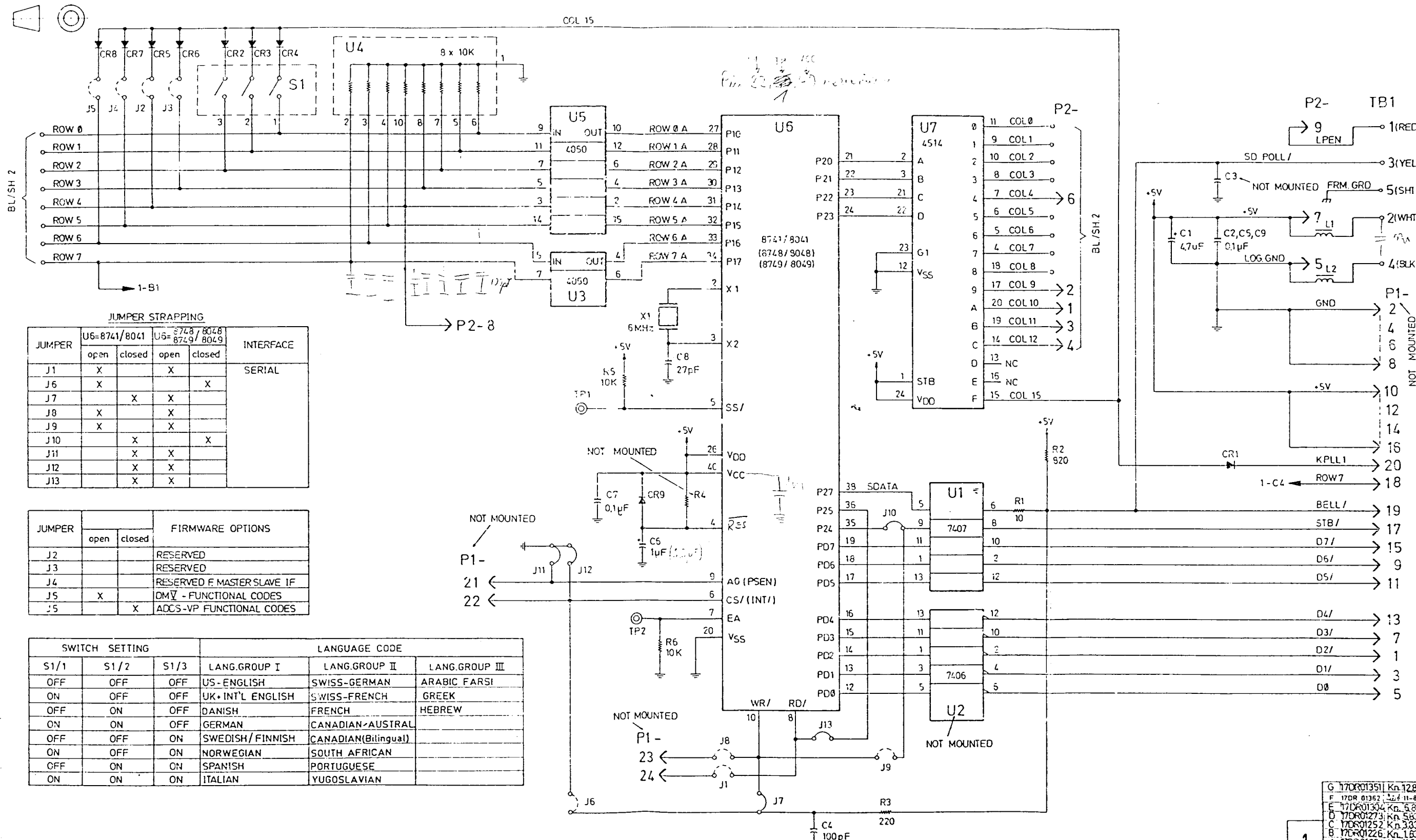
C 17DR01369-1.1.11-B-3  
 B 17DR01222-Kn.1.83  
 A 17DR01208-Kn.1.83  
 MCR | ENG. Ref. No. | Date | Drawn | Date



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

|   |                 |                               |                            |  |                      |
|---|-----------------|-------------------------------|----------------------------|--|----------------------|
| 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 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 RADIIEN: Radii: MAX.                                   | MAX.            |                               | KLASSE Class: 3273         | NAME: SCHEMATIC-16 B.I.T. PROCESS. INTERRUPT CONTROLLER 8088   |                      |
| UNBEMASSTE SCHARFE KANTEN FASE OD. RADIUS: Break Cham Edges: MAX. | 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:



JUMPER STRAPPING

| JUMPER | U6=8741/8041 |        | U6=8748/8048<br>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                |        | DMV - 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

|  |                               |                    |                |
|--|-------------------------------|--------------------|----------------|
| QUALITÄTSANFORDERUNG Standard Quality per ES 2 02 01     | WEKSTOFF Material             | ÄNDERUNGEN Changes | INGENIEUR Name |
| TOE WENN NICHT ANDERS ANGEFÜHRT GIBEN SICH DIE WERTE FÜR |                               |                    |                |
| OBERSCHICHT Surface Finish                               |                               |                    |                |
| MASSTOL mm NENNMASSE Dimensional Tolerances              | BEWEISWEISE Nachweisverfahren |                    |                |
| GRÖßTE MASSTOLERANZ MAX                                  | VERBINDERKATEGORIE            |                    |                |
| GRÖßTE MASSTOLERANZ MIN                                  | WAPNELEHRENDIG                |                    |                |
| GRÖßTE MASSTOLERANZ MITTEL                               | HAUTE HÄRTE                   |                    |                |
| GRÖßTE MASSTOLERANZ UNTER                                | HAUTE HÄRTE                   |                    |                |
| GRÖßTE MASSTOLERANZ OBER                                 | HAUTE HÄRTE                   |                    |                |
| GRÖßTE MASSTOLERANZ UNTER                                | HAUTE HÄRTE                   |                    |                |
| GRÖßTE MASSTOLERANZ OBER                                 | HAUTE HÄRTE                   |                    |                |

G 17DR01351 Kn.1288  
F 17DR 01352 Kn.11-83  
E 17DR01304 Kn.583  
D 17DR01273 Kn.583  
C 17DR01252 Kn.333  
B 17DR01226 Kn.163  
A 17DR01204 Kn.118

PLASSE Class 3273  
LICZ AM: Final 17.9.82  
LICZ Dns 2/82  
NOMSTR Designer  
DES Autor  
NONMGEPR Audit  
INGESETZ DURCH: Surd by  
INGESATZ FÜR: Submitter

**NCR GmbH AUGSBURG**

NAME SCHEMATIC KEYBOARD

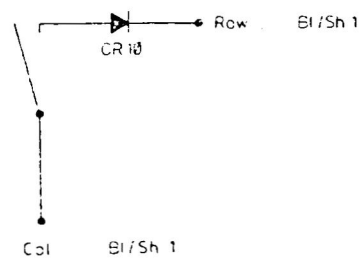
BLATT 1 von 2

17-0031563



|   |             |             |             |             |             |             |             |              |              |              |             |              |             |             |              |              |              |             |              |              |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|--------------|
|   | 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          | F15          | F16          | F17         | F18          | F19          |
|   | 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 0 Col 7 | Row 0 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          | E15          | E16          | E17         | E18          | E19          |
|   | 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 0 Col 6 | Row 0 Col 10 | 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         | D14          | D15          | D16          | D17         | D18          | D19          |
|   | 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 0 Col 0 | 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         | C14          | C15          | C16          | C17         | C18          | C19          |
|   | 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 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         | B12         | B13          | B14          | B15          | B16         | B17          | B18          |
|   | 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 0 Col 4 | Row 2 Col 7 | Row 0 Col 5  | Row 3 Col 4  | Row 3 Col 5  | Row 4 Col 5 |              |              |
| A | A5          |             |             |             |             |             |             |              |              |              |             |              |             | A6          |              | A7           |              | A8          |              |              |
|   | Row 0 Col 3 |             |             |             |             |             |             |              |              |              |             |              |             | Row 0 Col 4 |              | Row 0 Col 5  |              | Row 0 Col 6 |              |              |

Typische Tastenbeschriftung / Typical Key Pinassignment

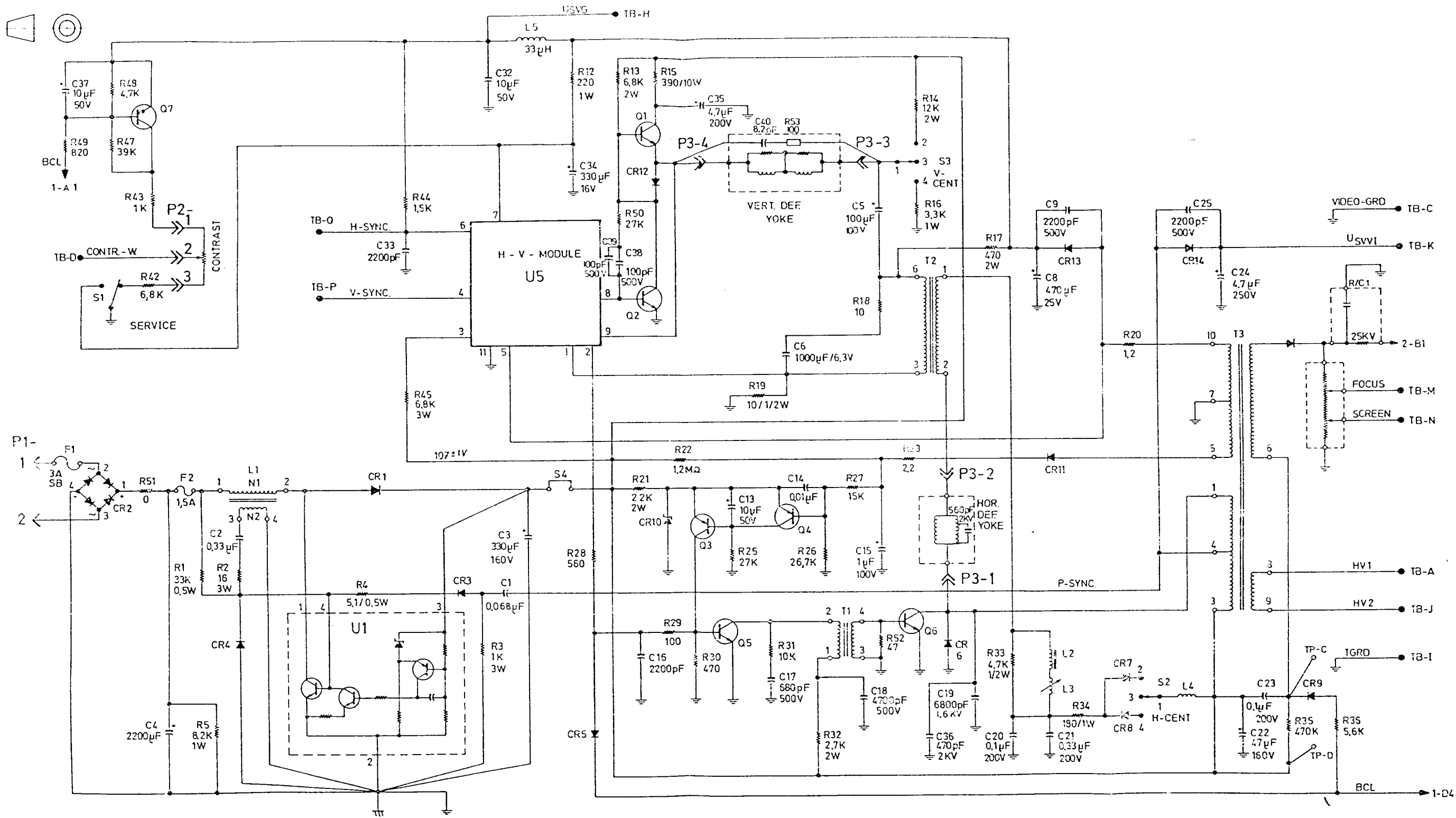


|   |            |         |
|---|------------|---------|
| 9 | 17CR01351  | Kn.1283 |
| F | 17CR 01352 | Kn.1284 |
| E | 17CR01304  | Kn.683  |
| D | 17CR01273  | Kn.583  |
| C | 17CR01252  | Kn.383  |
| B | 17CR01226  | Kn.183  |
| A | 17CR01204  | Kn.183  |

2

|   |  |  |  |
|---|--|--|--|
| QUALITÄTSANGABEN: Standard Quality per ES 70401<br>TOLERANZANGABEN: UNLESS OTHERWISE SPECIFIED<br>UNTERE OBERE<br>SURFACE FINISH: ✓ ZIRKON<br>MASSSTAB: mm<br>DIMENSIONAL TOLERANCES: MAX<br>SURFACE FINISH: INNEN: MAX<br>SURFACE FINISH: AUSSEN: MAX<br>HOLE RADIUS: MAX<br>HOLE POSITION: MAX<br>HOLE POSITION TOLERANCE: MAX<br>HOLE DEPTH: MAX | WERKSTOFF: Material<br>OBERFLÄCHENBEHANDLUNG: Coating<br>VERBINDUNGSART: joining<br>WÄRMEBEHANDLUNG: Heat Treat<br>HARTE: hardness | ANDERUNGEN: Changes<br>CLASS: Class 3 273<br>UZ AM PLAN: 12.7.62<br>UZ Dts: 80<br>GEPR: Gepr<br>KONSTR: Designer<br>DES: Appl<br>NORMALE: Light<br>MASSSTAB: 1:1<br>ERZEHLT DURCH: Subst by<br>EINSATZ FÜR: Super leader | THE DOCUMENT IS THE PROPERTY OF THE COMPANY AND IS TO BE KEPT IN CONFIDENTIALITY AND NOT REPRODUCED OR DISSEMINATED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.<br>NCRGmbH<br>SÜDBURG<br>SCHEMATIC KEYBOARD<br>SKITT 2 von 2<br>MASSSTAB: 1:1<br>CLASS: 017-0031563 |
|---|--|--|--|

BEWERTUNGEN: None  
ÄHNL. TEILE: Similar Parts



C-D ZUR STRAHLSSTROMEINSTELLUNG / FOR BEAMCURRENT ADJUSTMENT

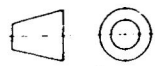
BEMERKUNGEN: Notes  
 1. ACHTUNG: Similar Parts

|  |   |                                |      |  |  |   |                         |
|--|---|--------------------------------|------|--|--|---|-------------------------|
| QUALITÄTSANGABEN: Standard Quality per ES 2-07-01            |   | WENN 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." |                         |
| TOL. WENN NICHT ANDERS ANGEZEIGT: Unless Otherwise Specified |   | WENN 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 | VERBINDUNGSART: Joining                |  | KLASSE: Class 3273  | GEZ. AM: Preis: 21.2.83 |
| MASSTOL. mm NEHMMASS: Dimensional Tolerances                 | INCH  | OBERFLÄCHENBEHANDLUNG: Coating |      | VERBINDUNGSART: Joining                |  | GEPR. ORG.: GEPR. ORG.  | GEPR. ORG.: GEPR. ORG.  |
| UNTERMASSTE ECKEN: INNEN: MAX. OUTEN: MAX.                   | UNTERMASSTE SCHARFE KANTEN: FASE OD. RADIUS: MAX. | WÄRMEBEHANDLUNG: Heat Treat    |      | VERBINDUNGSART: Joining                |  | GEPR. ORG.: GEPR. ORG.  | GEPR. ORG.: GEPR. ORG.  |
| BOHRUNGEN ENTGRÄTET: HOHE ENTGRÄTET: MAX.                    | BOHRUNGEN ENTGRÄTET: HOHE ENTGRÄTET: MAX.         | HARTE: Hardness                |      | VERBINDUNGSART: Joining                |  | GEPR. ORG.: GEPR. ORG.  | GEPR. ORG.: GEPR. ORG.  |
| BEMERKUNGEN: Notes   |   |                                |      | ERSATZ DURCH: Suedby                   |  |   |                         |
| 1. ACHTUNG: Similar Parts                                    |   |                                |      | ERSATZ FÜR: Substitution 017-0032158 A |  |   |                         |

1

C 17CR01346: Kn. 9.83  
 B 17CR01300 Sch. 9.83  
 A 17CR01282 Kn. 5.83

NAME: SCHEM. DEFLEXION BOARD VIDEO AMPL.  
 017-0032158



TB-K USVVI

TB-H USVG

TB-D CONTRAST-W

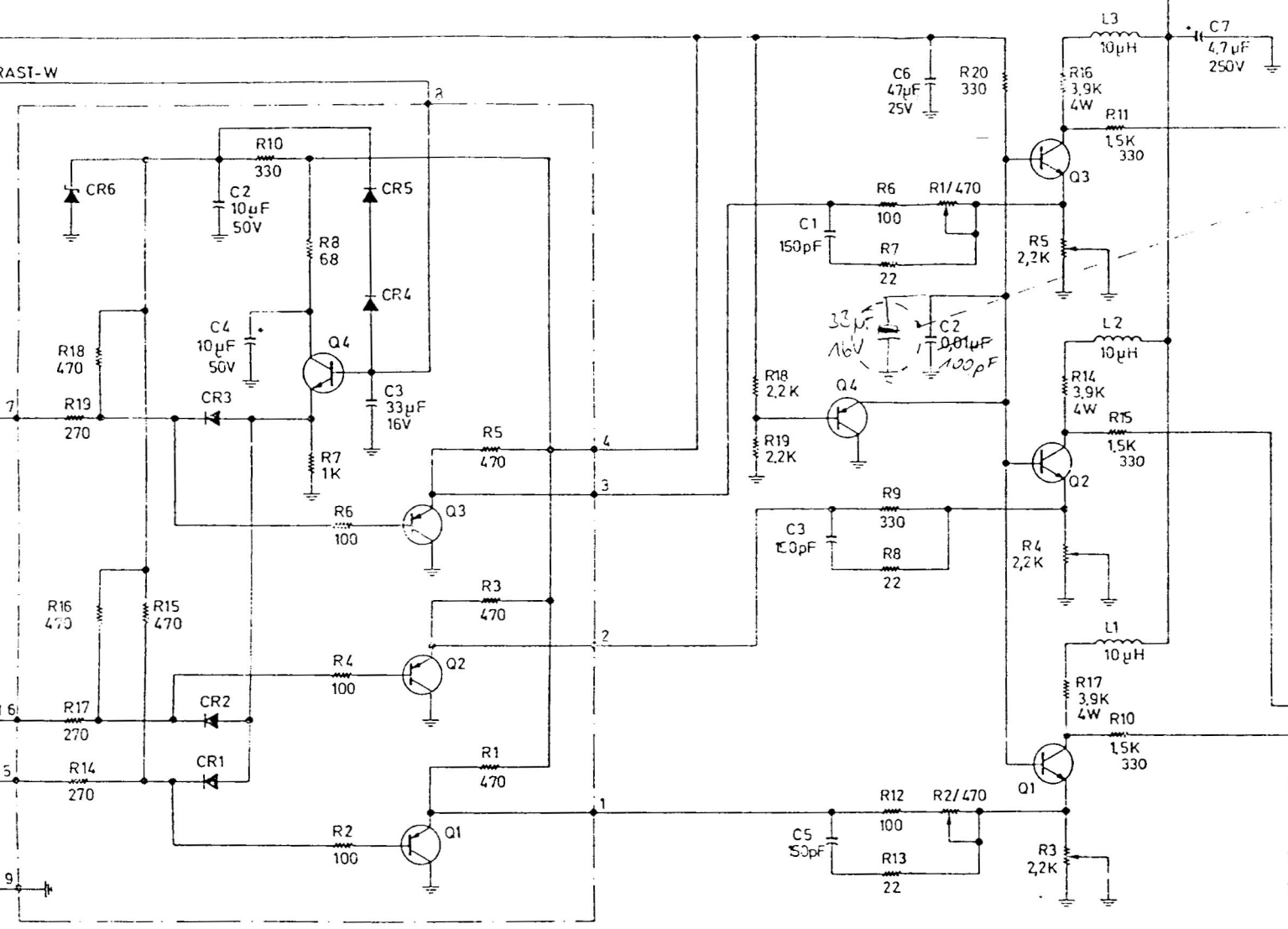
TB-E RED 7

TB-F GREEN 6

TB-G BLUE 5

TB-C 9

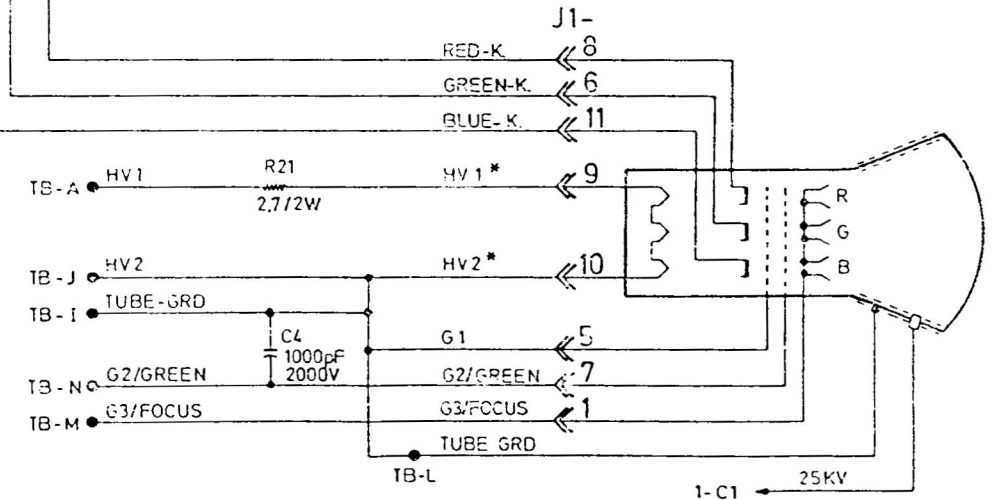
TB-B



VIDEO PRE AMPLIFIER

VIDEO AMPLIFIER

*Einbau dieses C6 nicht möglich (Komponenten der Videotechnik)  
Es wird empfohlen C6 durch einen Tantale C zu ersetzen!*



1-C1 25KV

BEMERKUNGEN: Name, Anzahl, TERLE, Similar Parts

| QUALITÄTSANGABEN Standard Quality per ES 2-07-01           |               | WERKSTOFF Material |      |
|--|---------------|--------------------|------|
| TUL WEIN NICHT ANIERS ANGE GEBEN (unless Others Specified) |               |                    |      |
| OBERFL. QUAL. Surface Finish                               | WINKEL Angles | mm                 | INCH |
| MASSTOL mit NENNMASS Dimensional Tolerances                | EX. T.XX      |                    |      |
| UNBEMASSTE ECKEN INNEN Corner Radii INSSEN                 | MAX           |                    |      |
| UNBEMASSTE ECKEN AUSSEN Corner Radii AUSSEN                | MAX           |                    |      |
| UNBEMASSTE SCHWÄRZE ANTEILE Fillets                        | MAX           |                    |      |
| BOHRUNGEN ENTGRÄTET Hole Chamfer Depth                     | MAX           |                    |      |

| ÄNDERUNGEN Changes        |              |
|---------------------------|--------------|
| KLASSE Class              | 3273         |
| GEZ. AM. Finish           | 45.83        |
| GEZ. DRA. Wire            | 26           |
| GEPR. ORG. Designer       |              |
| GES. ABGE. Approved       |              |
| NORM. GEPR. Approved      |              |
| ERSETZT DURCH. Supersedes | 017-0032158A |
| ERSATZ NR. Substitutes    | 017-0032158A |

|  |             |
|--|-------------|
| This document is NCR Intellectual Property and is the property of NCR Corporation. It is to be treated as strictly confidential and its reproduction is prohibited. It may be used only for the purpose with maintenance and use of the equipment. |             |
| NCR CORP. AUGSBURG   |             |
| SCHEM. DEFLECTION BOARD VIDEO AMPLI  |             |
| BEATT 2 VON 3  | 017-0032158 |
| CODE   |             |

2

C 17DR01346 Kn. 9.83  
B 17DR0360 5.42.83  
A 17DR01282 Kn. 5.83  
INDEX FRG MITT NR. NAME DAT  
Rev. Eng. No. 1.016.001

A1

A2

A3

A4

A5

A5

A4

A3

A2

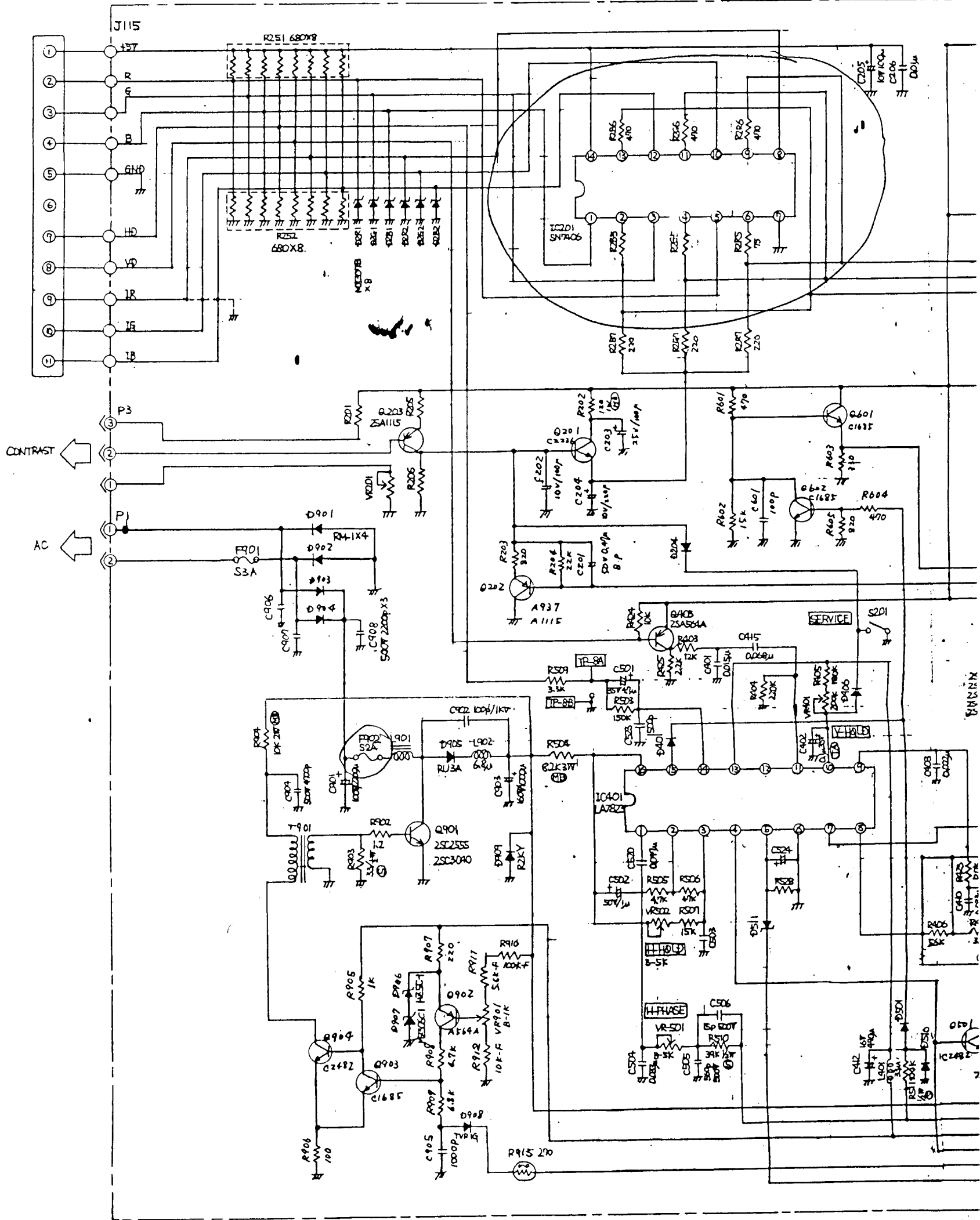
1

Schulz Interplan GmbH  
Kamling 17-1 0302/410







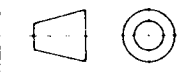


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| AA-122AU            |
| ET222AU             |
| F 8                 |
| APPLICABLE MODEL NO |

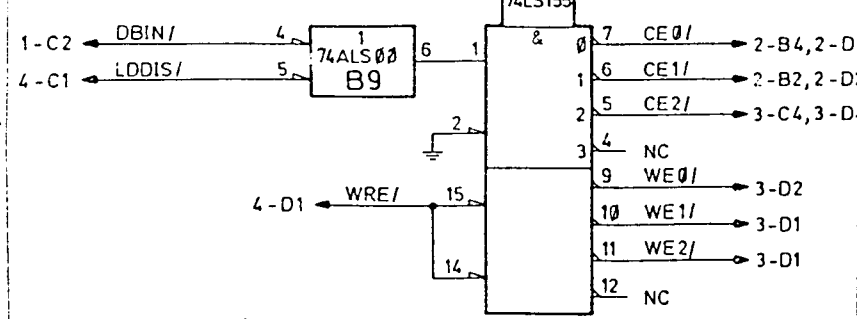
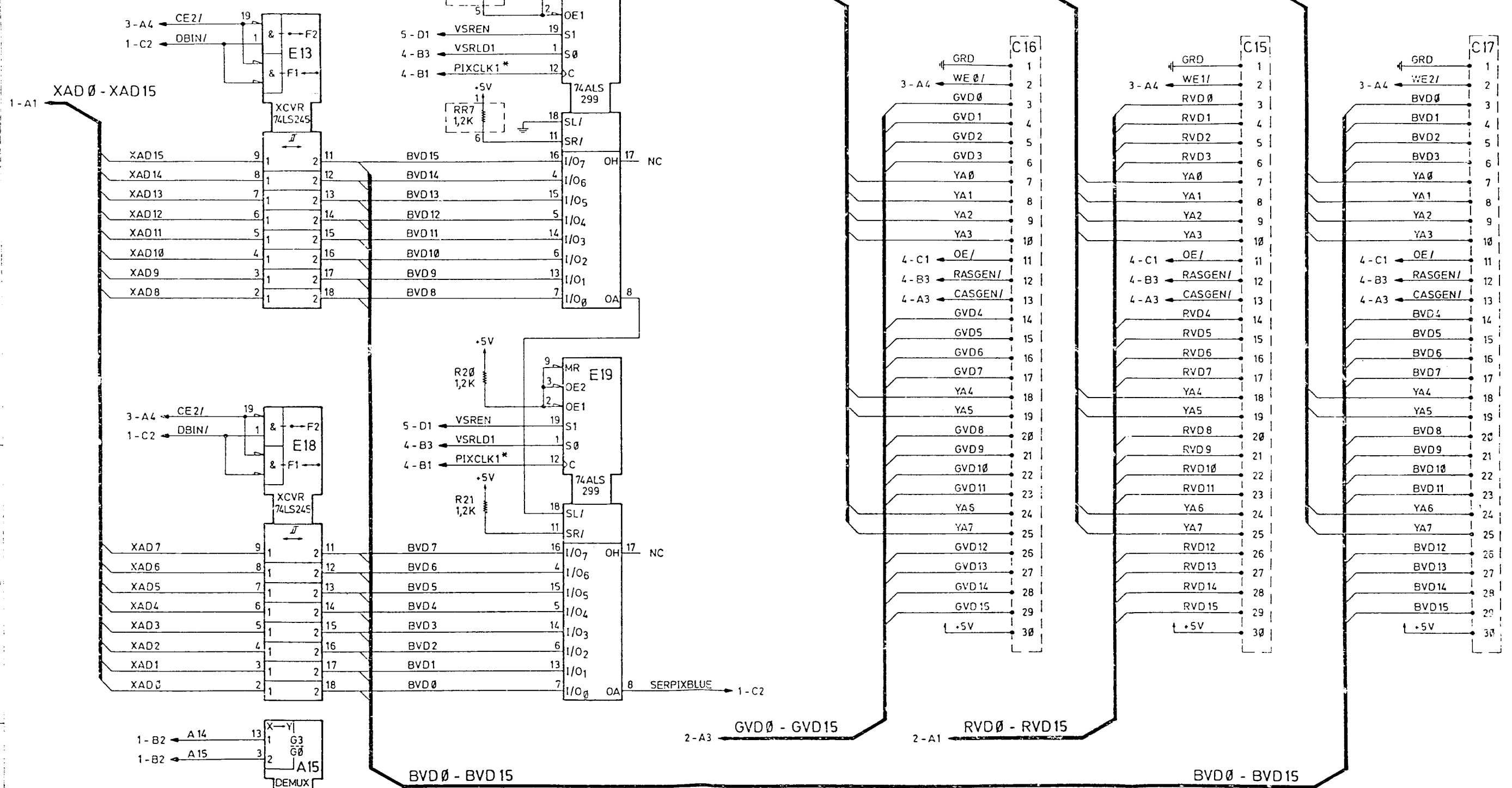








BLUE



QUALITÄTSANGABEN: Standard Quality per ES 2 07 01  
TOL. WENN NICHT ANDERS ANGEGEBEN: Unless Otherwise Specified

| ÜBERFL. QUAL. Surface Finish           | WINKEL Angles | mm | INCH |
|--|---------------|----|------|
| MASSTOL mm DIMENSIONS                  | °             |    |      |
| DIMENSIONAL TOLERANCES                 |               |    |      |
| UNBEMASSTE ECKEN Corner Radii          | INNEN MAX     |    |      |
| UNBEMASSTE SCHÄRFKANTEN FASE OD RADIUS | AUSSEN MAX    |    |      |
| BOHRUNGEN ENTGRÄTET Hole Sharp Edges   |               |    |      |
| BOHRUNGEN ENTGRÄTET Hole Deburr Depth  | MAX           |    |      |

| WERKSTOFF Material            | ANDE RUNGEN Changes |
|-------------------------------|---------------------|
| OBERFLÄCHENBEHANDLUNG Coating |                     |
| VERBINDUNGSART Joining        |                     |
| WÄRMEBEHANDLUNG Heat Treat    |                     |
| HAARTE Hardness               |                     |

|                           |  |
|---------------------------|--|
| ALIASSE, Class 3273       |  |
| GEZ. AM. Finish 11.4.1983 |  |
| GEZ. Dts. Gp.             |  |
| GEPR. Char.               |  |
| KONSTR. Designer          |  |
| GES. Appl.                |  |
| PROJEKTLEITER, Assd       |  |
| ERSTELT DURCH, Sued by    |  |
| ENSATZ FÜR, Suppl. for    |  |

3 A 17DR01282; Kn 5.83

INDEX: PRG. MITT. NR. NAME / DAT. Rev. Eng. Rev. No. Dts. Date

GROUP LINE: MCR GmbH AUGSBURG

NAME: SCHEMATIC GRAPHIC CONTR. COLOR

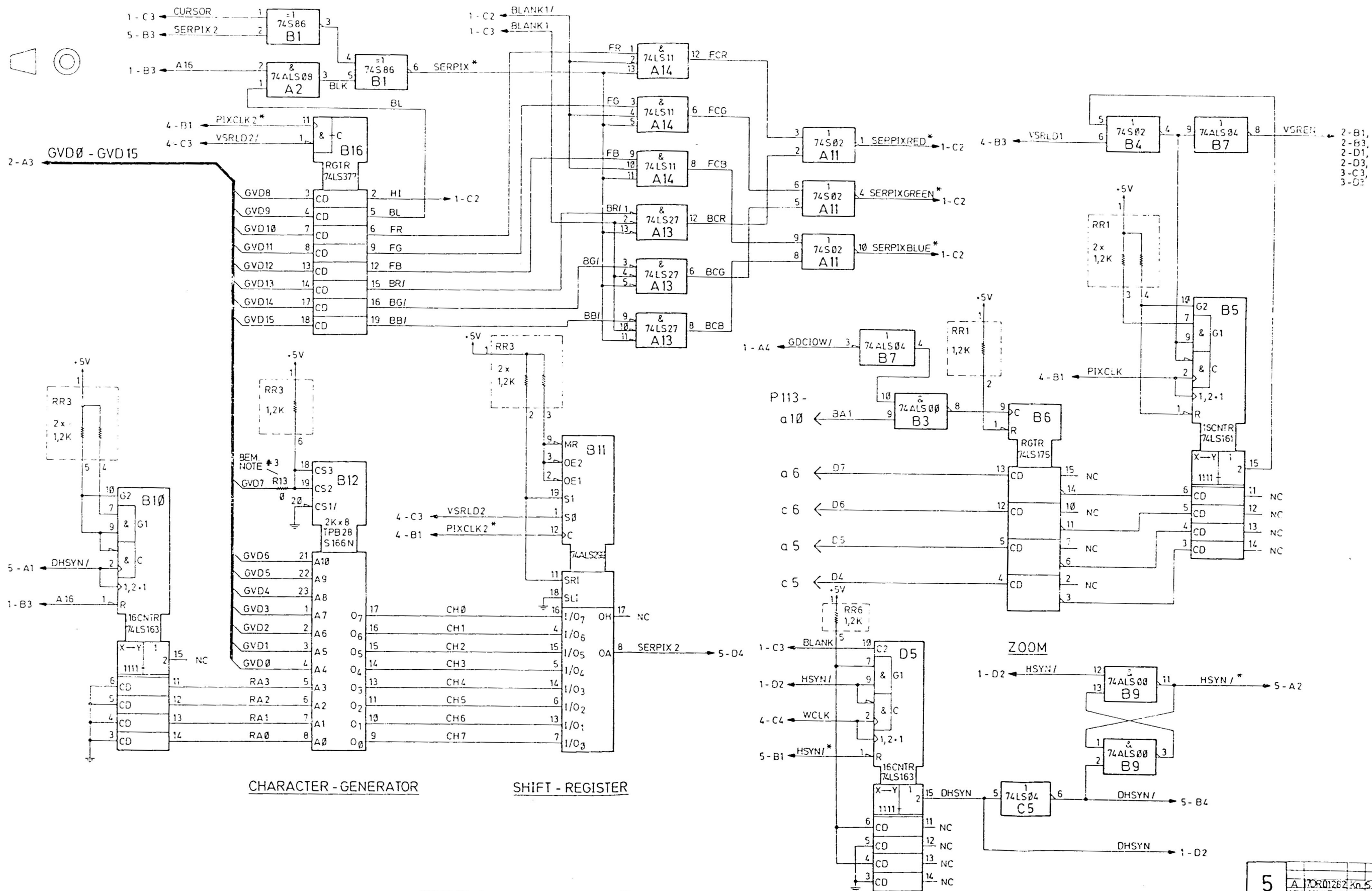
BLATT 3 von 5 MASSSTAB: 1:1 CODE: 017-0032489

BEMERKUNGEN: None

A/2 A/3 A/4 A/5







CHARACTER-GENERATOR

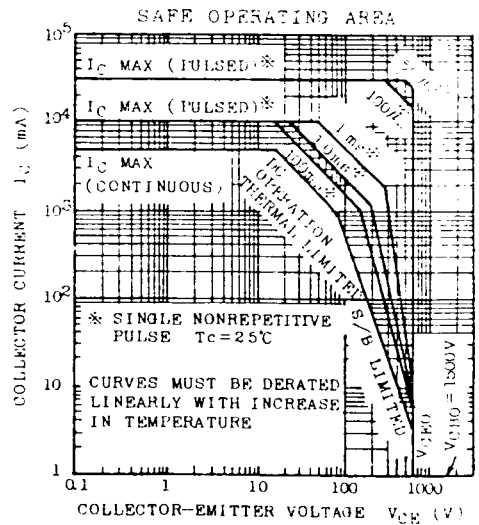
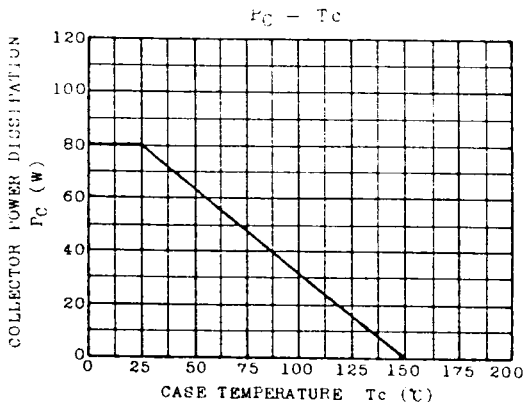
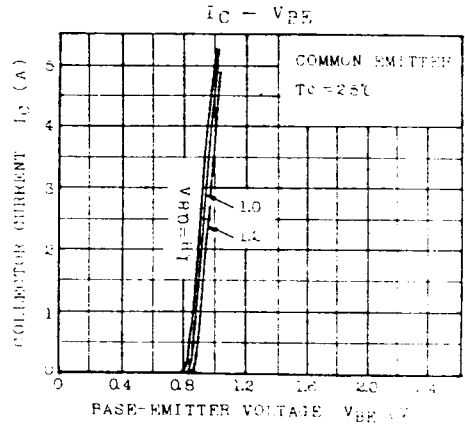
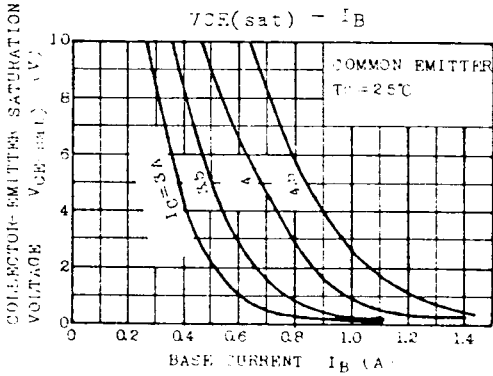
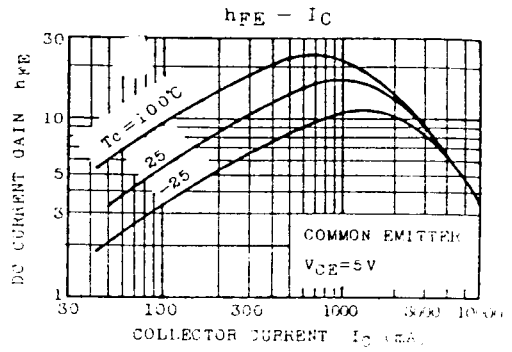
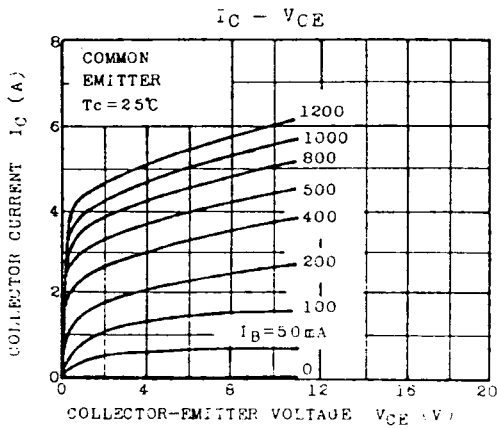
SHIFT-REGISTER

- # 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 017-0032479-A

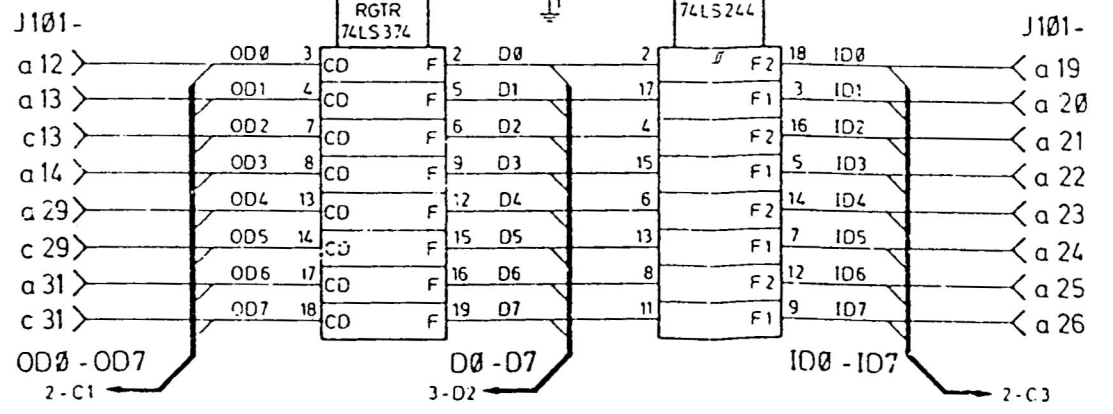
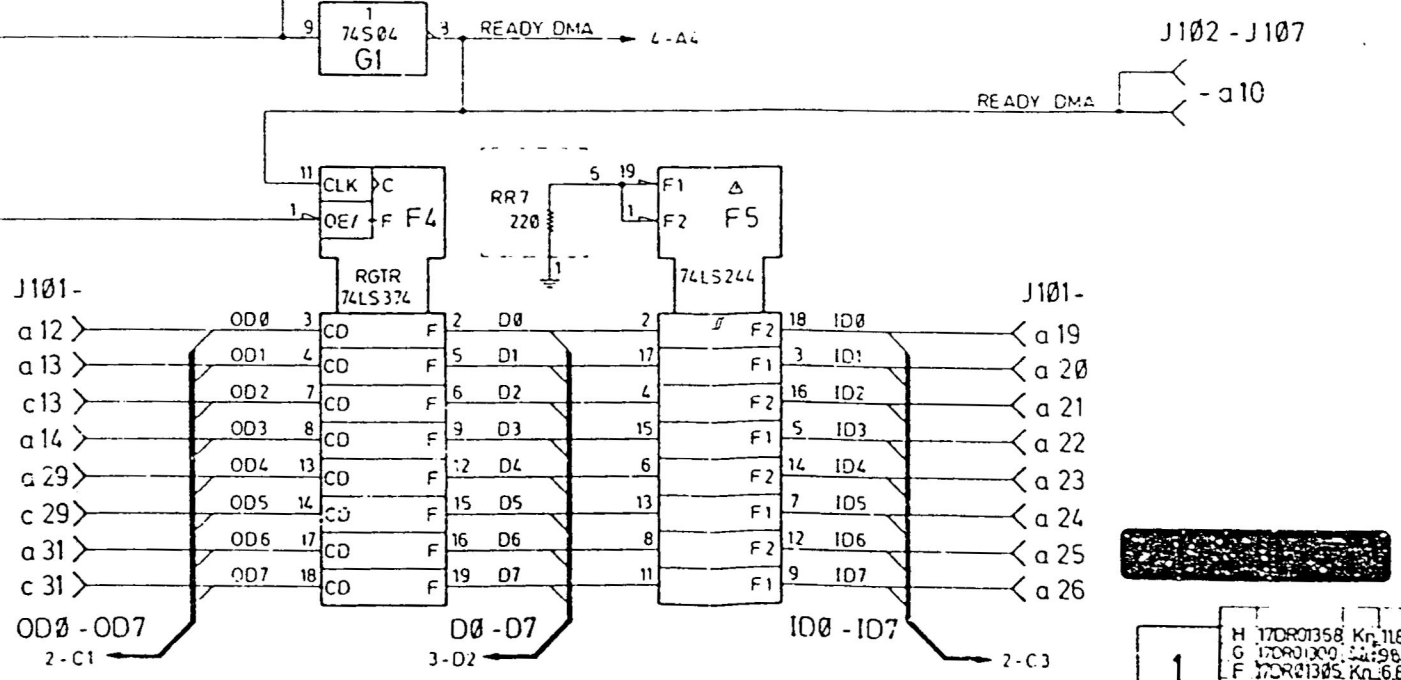
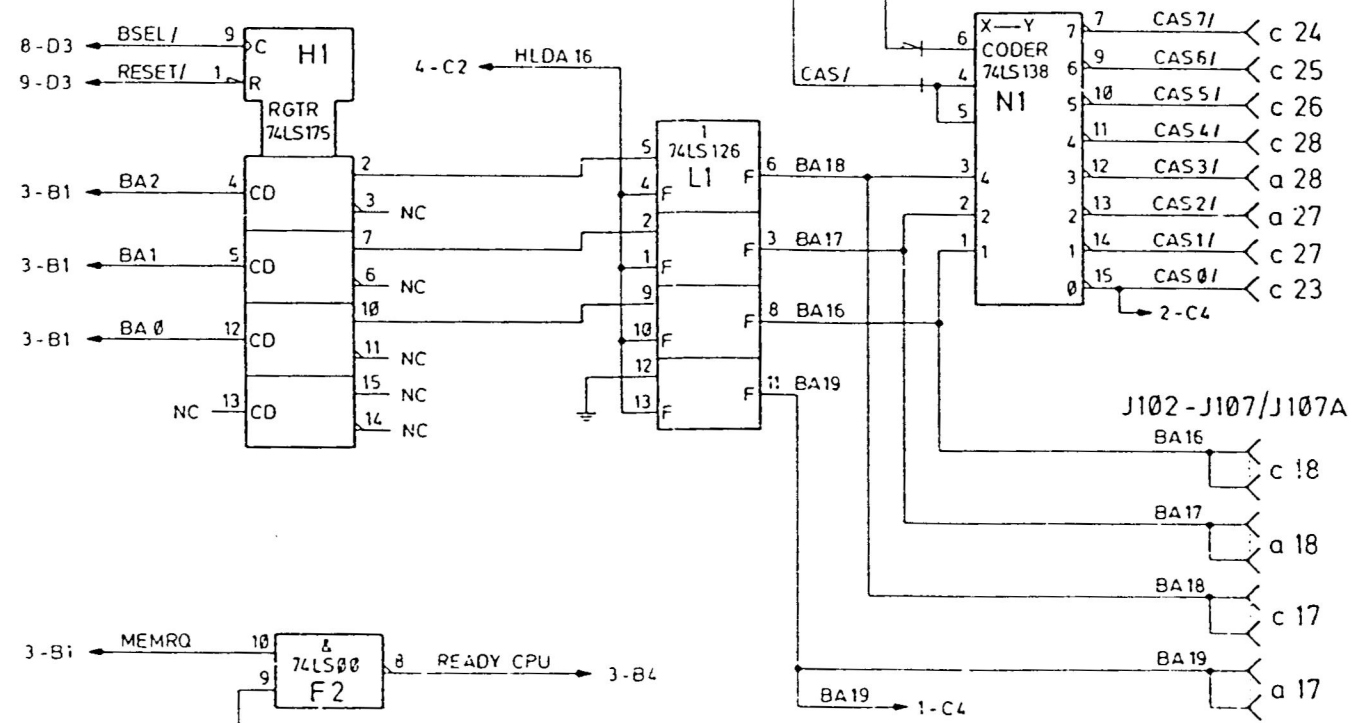
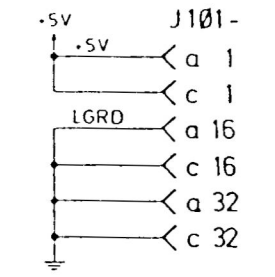
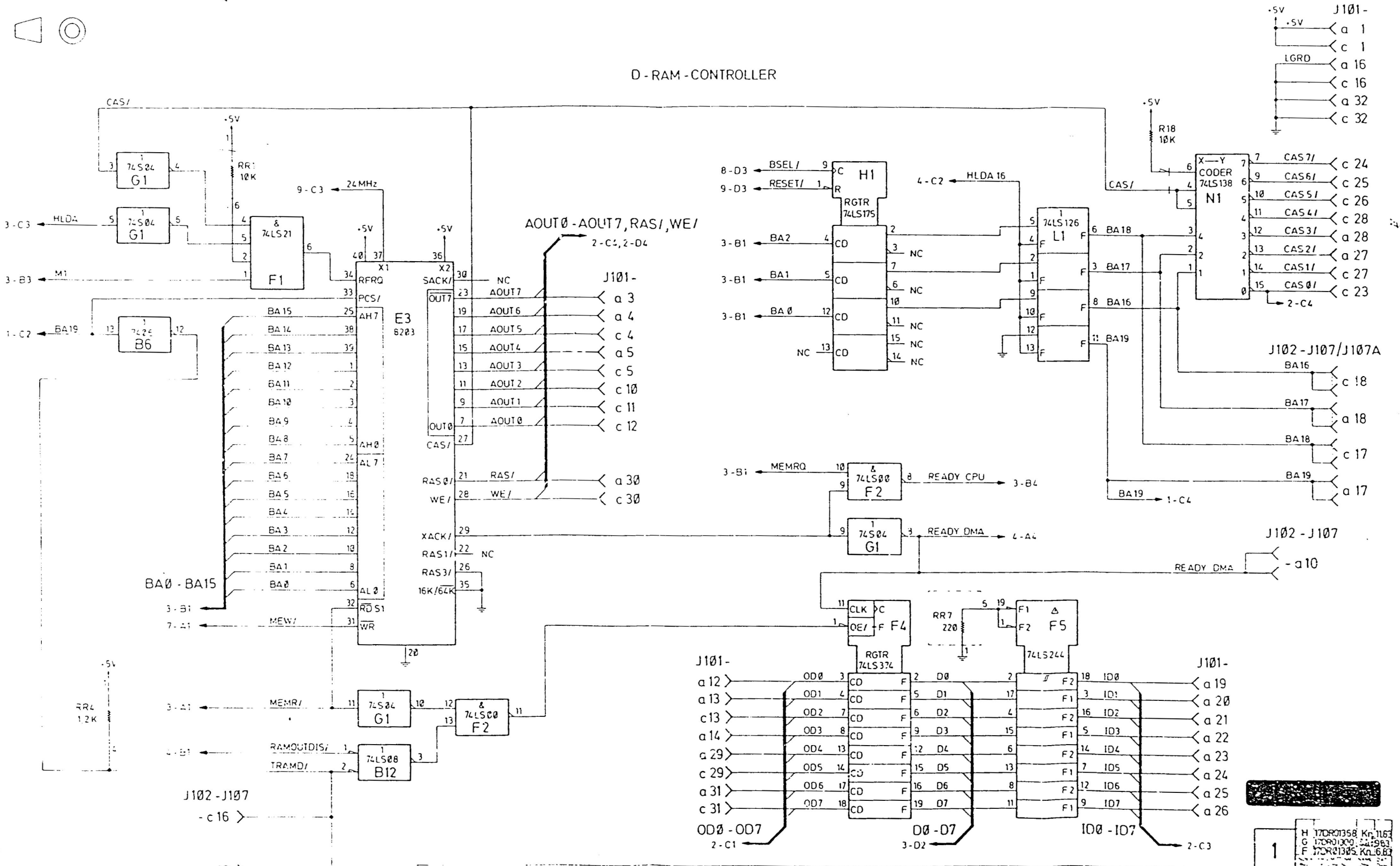
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| 254 | 74LS161     | 1   | IC   |
| 255 | 74LS163     | 1   | IC   |
| 256 | 74LS175     | 1   | IC   |
| 257 | 74LS277     | 1   | IC   |
| 258 | 74LS11      | 4   | IC   |
| 259 | 74LS02      | 3   | IC   |
| 260 | 74LS04      | 1   | IC   |
| 261 | 74LS08      | 2   | IC   |
| 262 | 74LS00      | 2   | IC   |
| 263 | 74LS09      | 1   | IC   |
| 264 | 74LS155     | 1   | IC   |
| 265 | 74LS161     | 1   | IC   |
| 266 | 74LS163     | 1   | IC   |
| 267 | 74LS175     | 1   | IC   |
| 268 | 74LS277     | 1   | IC   |
| 269 | 74LS11      | 4   | IC   |
| 270 | 74LS02      | 3   | IC   |
| 271 | 74LS04      | 1   | IC   |
| 272 | 74LS08      | 2   | IC   |
| 273 | 74LS00      | 2   | IC   |
| 274 | 74LS09      | 1   | IC   |
| 275 | 74LS155     | 1   | IC   |
| 276 | 74LS161     | 1   | IC   |
| 277 | 74LS163     | 1   | IC   |
| 278 | 74LS175     | 1   | IC   |
| 279 | 74LS277     | 1   | IC   |
| 280 | 74LS11      | 4   | IC   |
| 281 | 74LS02      | 3   | IC   |
| 282 | 74LS04      | 1   | IC   |
| 283 | 74LS08      | 2   | IC   |
| 284 | 74LS00      | 2   | IC   |
| 285 | 74LS09      | 1   | IC   |
| 286 | 74LS155     | 1   | IC   |
| 287 | 74LS161     | 1   | IC   |







# D-RAM-CONTROLLER

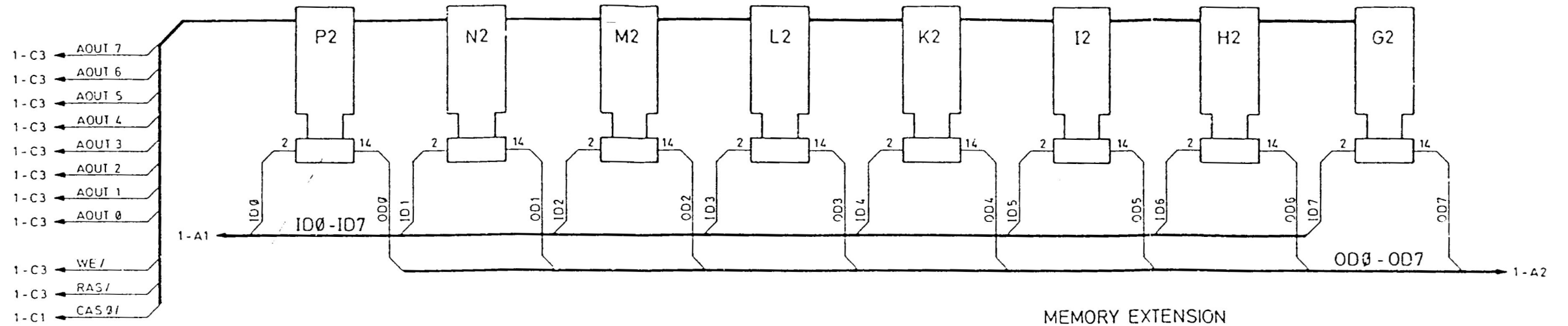


1 H 170R01358 K1-1163  
G 170R01300 K1-983  
F 170R01305 K1-683

3273  
21 10 1982  
MCR Group  
AUGSBURG  
SCHEMATIC-CONTROLLER (M1) X  
W/O GRAPHIC PPOC  
017 0032012



D RAM

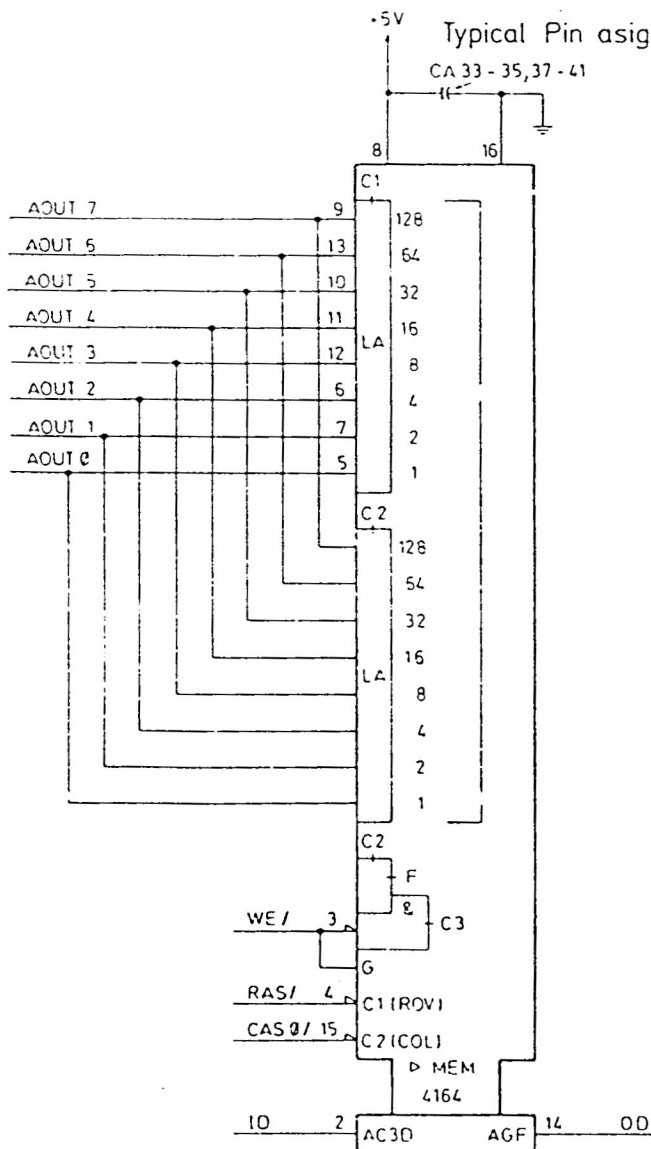


MEMORY EXTENSION

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 | OD 0   | 12 | AOUT 0 |
| 13 | OD 1   | 13 | OD 2   |
| 14 | OD 3   | 14 | NC     |
| 15 | NC     | 15 | NC     |
| 16 | LGRD   | 16 | LGRD   |
| 17 | NC     | 17 | NC     |
| 18 | NC     | 18 | NC     |
| 19 | ID 0   | 19 | NC     |
| 20 | ID 1   | 20 | NC     |
| 21 | ID 2   | 21 | NC     |
| 22 | ID 3   | 22 | NC     |
| 23 | ID 4   | 23 | CAS 0/ |
| 24 | ID 5   | 24 | CAS 7/ |
| 25 | ID 6   | 25 | CAS 6/ |
| 26 | ID 7   | 25 | CAS 5/ |
| 27 | CAS 2/ | 27 | CAS 1/ |
| 28 | CAS 3/ | 28 | CAS 4/ |
| 29 | OD 4   | 29 | OD 5   |
| 30 | RAS /  | 30 | WE /   |
| 31 | OD 6   | 31 | OD 7   |
| 32 | LGRD   | 32 | LGRD   |

Typical Pin assignment



2 H 17DR01358, Kn. 1153  
G 17DR01300, Kn. 1983  
F 17DR01305, Kn. 683

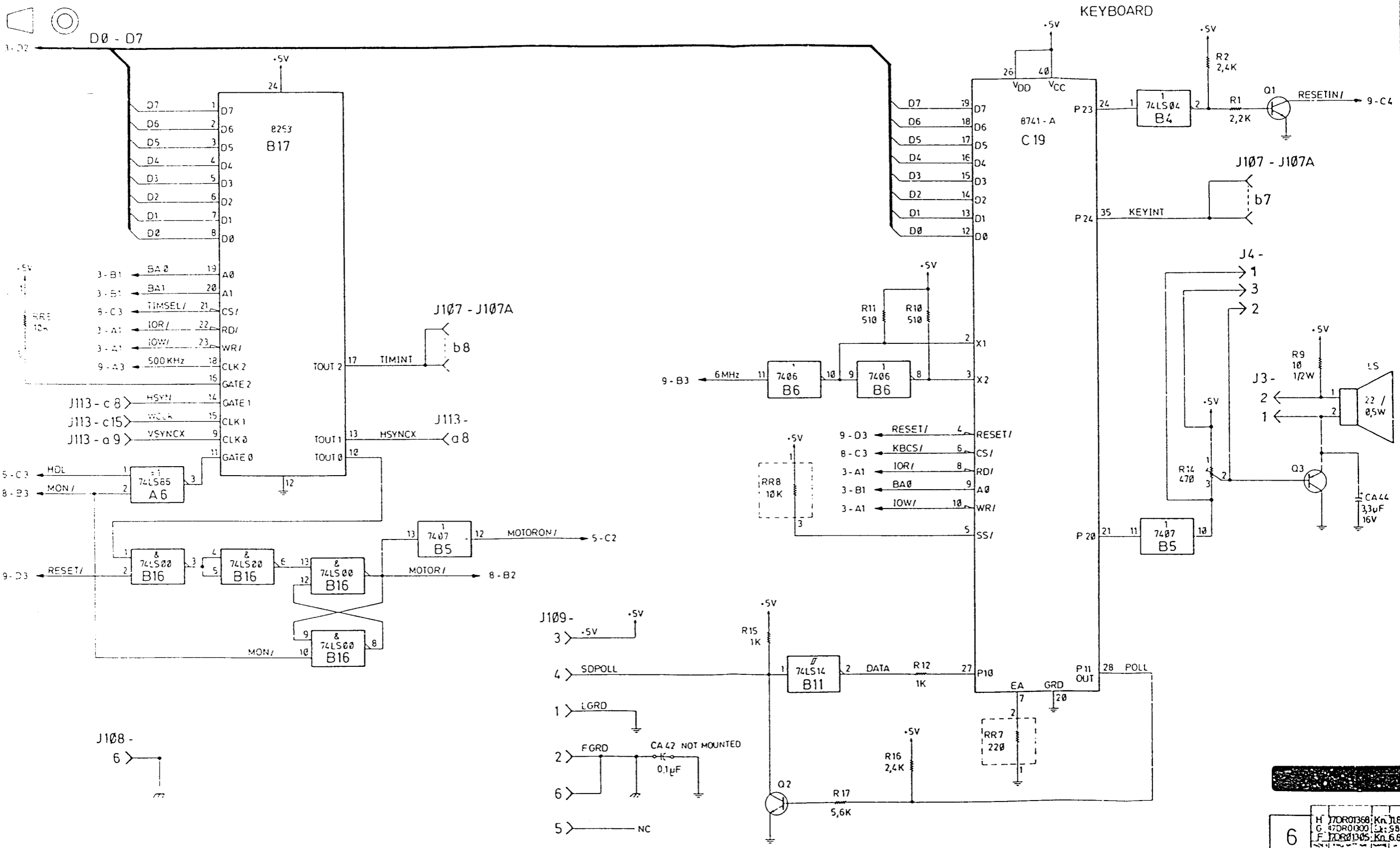
|  |   |
|--|---|
| <p>KLASSE Cull 3273.<br/>GEZ AM 20.10.82<br/>GEPR. CH.<br/>AONSTR. Dm<br/>GES. ADW.<br/>NOMMAGEN. ADW.</p> | <p>MCR GmbH<br/>AUGSBURG</p>                          |
| <p>ERSATZ DURCH SUPPL. BY<br/>ERSATZ FÜR Substitutes</p>   | <p>SCHEMATIC-CONTROLLER DM X<br/>W/O GRAPHIC PROC</p> |
| <p>017 0032012</p>   |   |









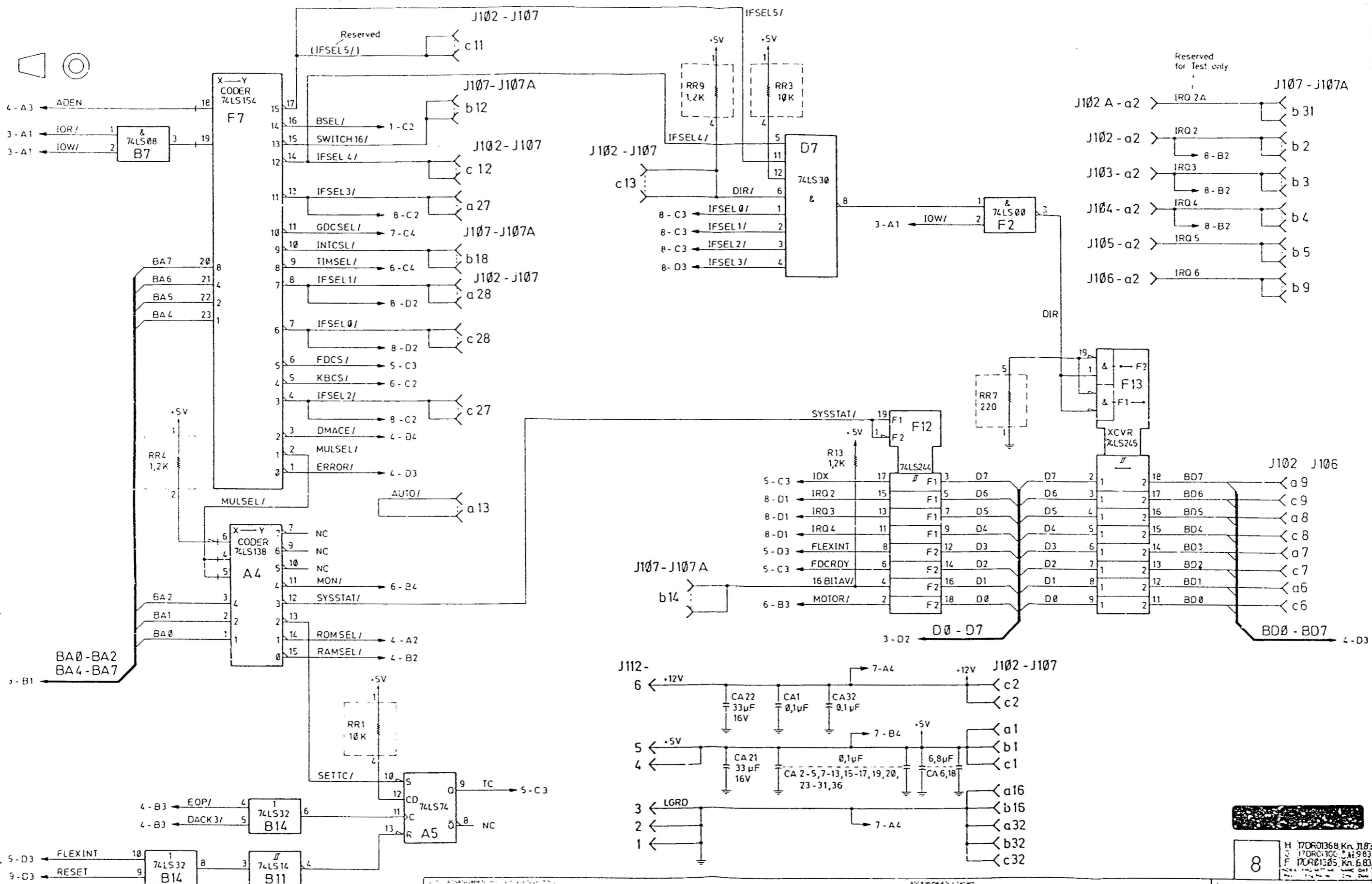


6 H 170R01368 Kn 1.83  
 G 470R01300 Kn 9.83  
 F 170R01365 Kn 6.63

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







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

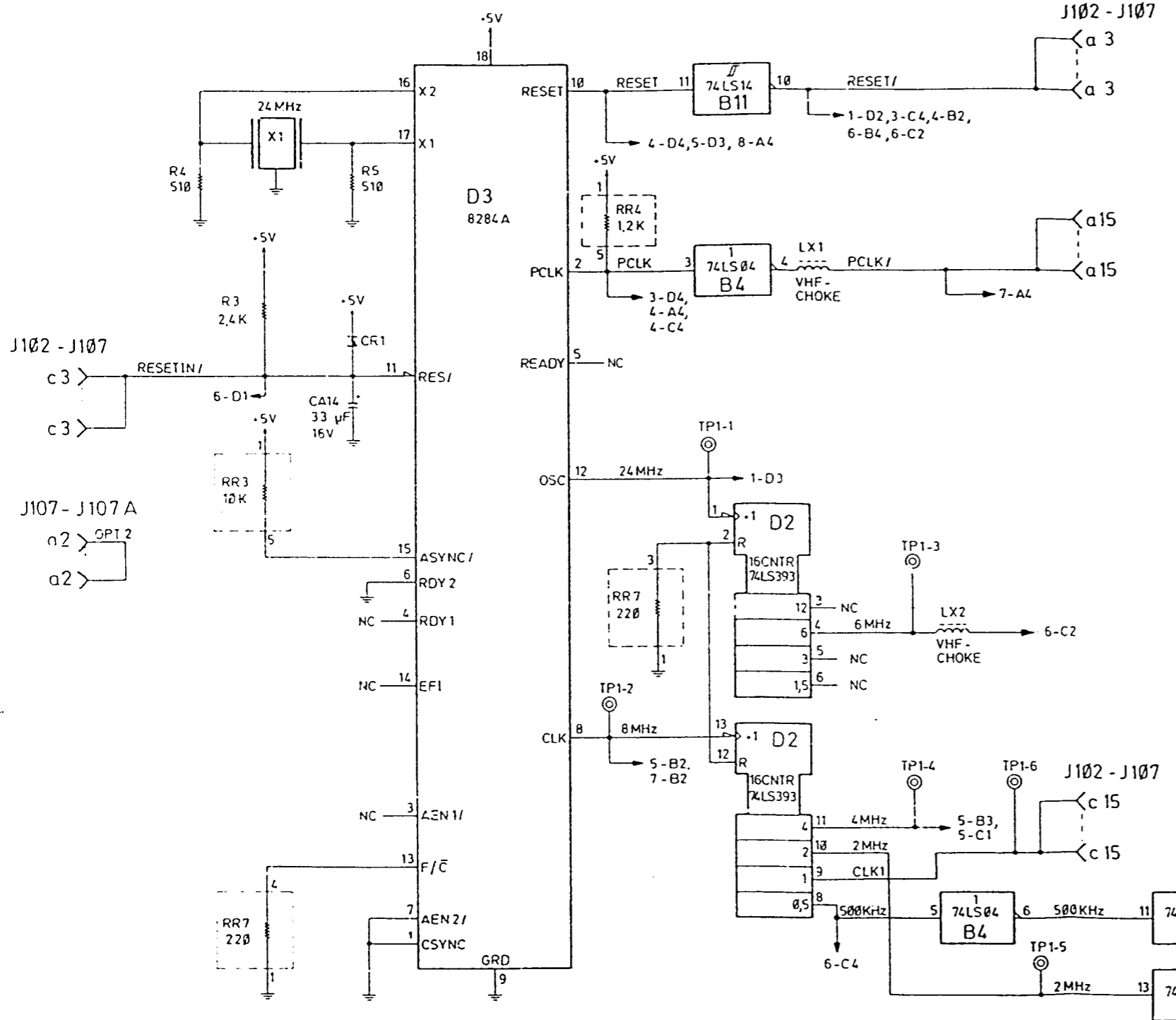
KLASSE 3273  
 DATUM 4.11.1982  
 GEZ. DR. G. G. G.  
 KONSTR. DR. G. G. G.  
 BES. DR. G. G. G.  
 VERW. DR. G. G. G.

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

REVISIONS LIST

| NO. | DATE | DESCRIPTION    |
|-----|------|----------------|
| 1   |      | INITIAL DESIGN |
| 2   |      | REVISION       |
| 3   |      | REVISION       |
| 4   |      | REVISION       |
| 5   |      | REVISION       |
| 6   |      | REVISION       |
| 7   |      | REVISION       |
| 8   |      | REVISION       |
| 9   |      | REVISION       |
| 10  |      | REVISION       |

DMV - BUS



- J102 A
- J102
- J103
- J104
- J105
- J106

| BEM./NOTE #3 |        | RESERVED only for Test |  |
|--------------|--------|------------------------|--|
| PIN 2a       |        |                        |  |
| J102 A       | IRQ 2A |                        |  |
| J102         | IRQ 2  |                        |  |
| J103         | IRQ 3  |                        |  |
| J104         | IRQ 4  |                        |  |
| J105         | IRQ 5  |                        |  |
| J106         | IRQ 6  |                        |  |

J107 DIAGNOSTIC - MODUL  
J107A 16 BIT - PROC.

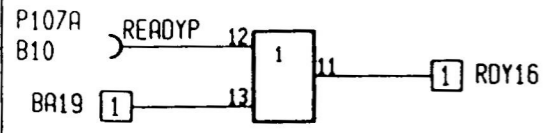
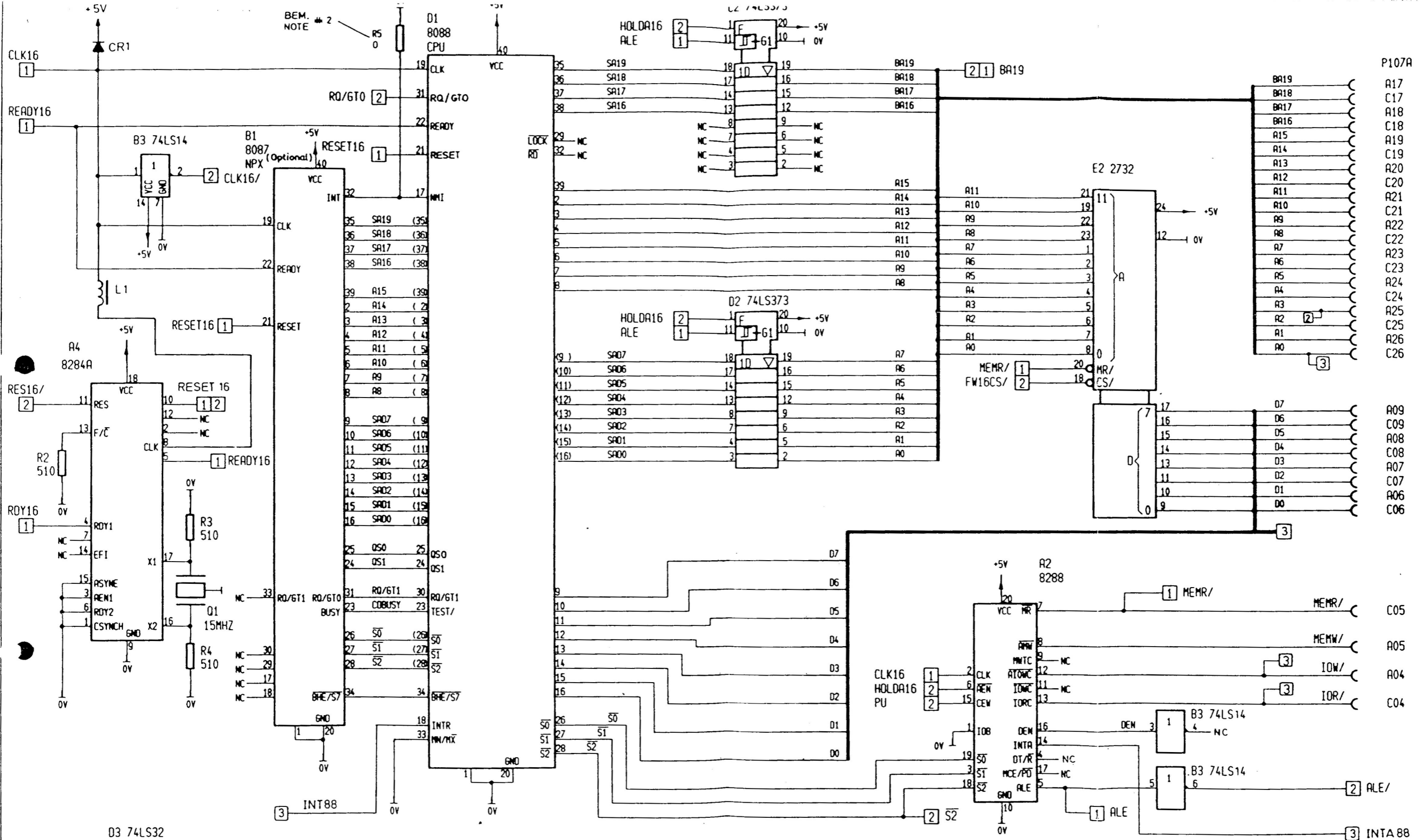
| a  | c           | Reserved |
|----|-------------|----------|
| 1  | .5V         |          |
| 2  | BEM/NOTE #3 |          |
| 3  | RESET/      |          |
| 4  | IOW/        |          |
| 5  | MEMW/       |          |
| 6  | BD1         |          |
| 7  | BD3         |          |
| 8  | BD5         |          |
| 9  | BD7         |          |
| 10 | READY DMA   |          |
| 11 | EOP/        |          |
| 12 | INTACK/     |          |
| 13 | AUTO/       |          |
| 14 | THOLD/      |          |
| 15 | PCLK/       |          |
| 16 | LGRD        |          |
| 17 | BA19        |          |
| 18 | BA17        |          |
| 19 | BA15        |          |
| 20 | BA13        |          |
| 21 | BA11        |          |
| 22 | BA9         |          |
| 23 | BA7         |          |
| 24 | BA5         |          |
| 25 | BA3         |          |
| 26 | BA1         |          |
| 27 | IFSEL3/     |          |
| 28 | IFSEL1/     |          |
| 29 | DRQ1        |          |
| 30 | DACK1/      |          |
| 31 | WAIT/       |          |
| 32 | LGRD        |          |

| a  | b         | c         | Reserved |
|----|-----------|-----------|----------|
| 1  | .5V       | .5V       |          |
| 2  | OPT 2     | IRQ 2     |          |
| 3  | RESET/    | IRQ 3     |          |
| 4  | IOW/      | IRQ 4     |          |
| 5  | MEMW/     | IRQ 5     |          |
| 6  | D1        | FLEXINT   |          |
| 7  | D3        | KEYINT    |          |
| 8  | D5        | TIMINT    |          |
| 9  | D7        | IRQ 6     |          |
| 10 | READY DMA | READYP    |          |
| 11 | EOP/      | HOLD      |          |
| 12 | INTACK/   | SWITCH16/ |          |
| 13 | AUTO/     | HLDA16    |          |
| 14 | THOLD/    | 16 BITAV/ |          |
| 15 | PCLK/     | STDMARQ/  |          |
| 16 | LGRD      | LGRD      |          |
| 17 | BA19      | 16 BITSET |          |
| 18 | BA17      | INTCSL/   |          |
| 19 | A15       |           |          |
| 20 | A13       | MEMRQ/    |          |
| 21 | A11       |           |          |
| 22 | A9        |           |          |
| 23 | A7        |           |          |
| 24 | A5        |           |          |
| 25 | A3        |           |          |
| 26 | A1        |           |          |
| 27 | IFSEL3/   |           |          |
| 28 | IFSEL1/   |           |          |
| 29 | DRQ1      |           |          |
| 30 | DACK1/    |           |          |
| 31 | WAIT/     | IRQ 2A    |          |
| 32 | LGRD      | GRD       |          |

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

# 1 ASSY: 017-0033399 -A ( 8 BIT - FLEX DISK ) ; 017-0033403 -A (16 B.FLEX COLOR)  
017-0033400 -A ( 16 BIT - FLEX DISK ) ; 017-0033404 -A (16 B.FIX COLOR)  
017-0033401 -A ( 8 BIT - FIX DISK )  
017-0033402 -A ( 15 BIT - FIX DISK )

|  |  |  |
|--|--|--|
| <p>DATE: 11.11.1982</p> <p>DESIGNER: H. W. ...</p> <p>CHECKED: ...</p> | <p>CLASS: 3273</p> <p>DATE: 5.11.1982</p> <p>DESIGNER: ...</p> | <p>9</p> <p>H. 17DR01368_Kn.11.83<br/>G. 17DR01300_Kn.11.83<br/>F. 17DR01305_Kn.6.83</p> |
| <p>WIRTSCHAFTS UNIVERSITÄT SCHAUBHÖRER</p> <p>LEHRGEBIET: ...</p>      | <p>NAME: SCHEMATIC CONTROLLER DMV</p> <p>W/O GRAPHIC PROC.</p> | <p>017-0032012</p>   |

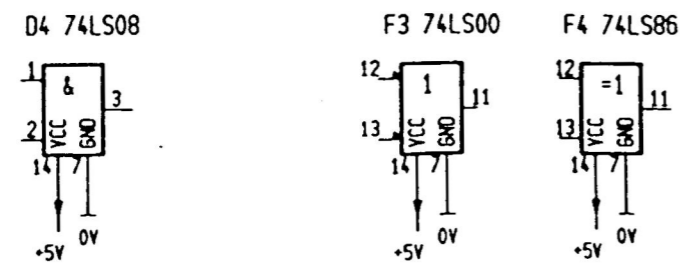
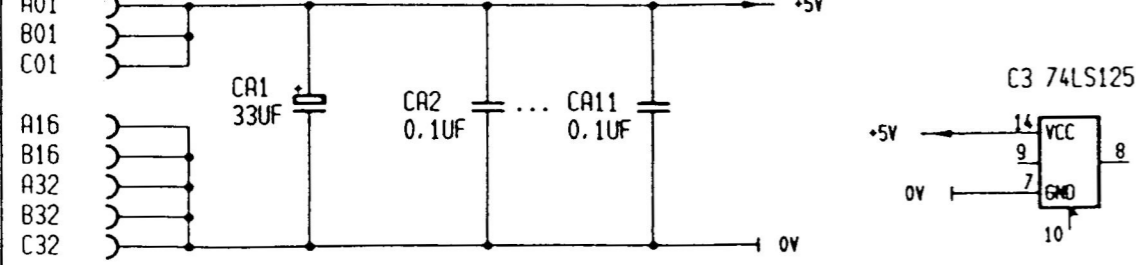
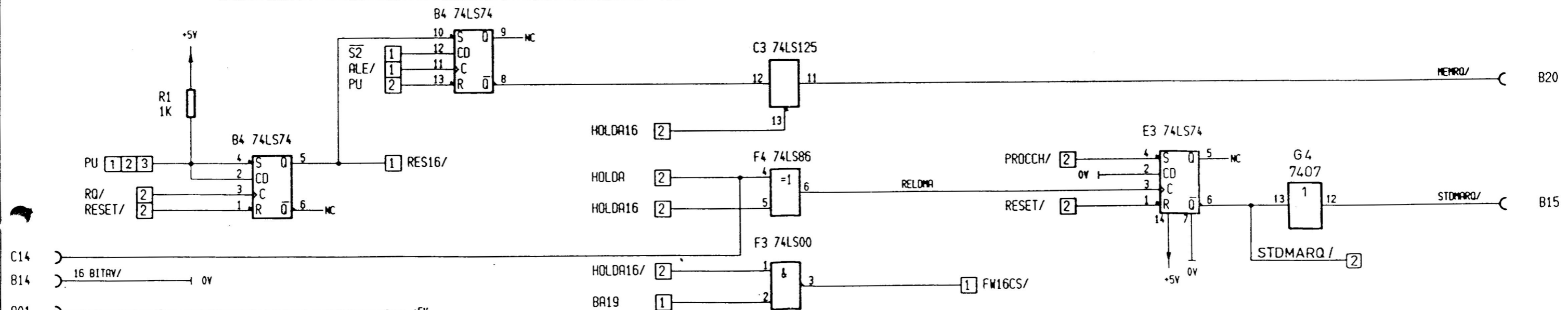
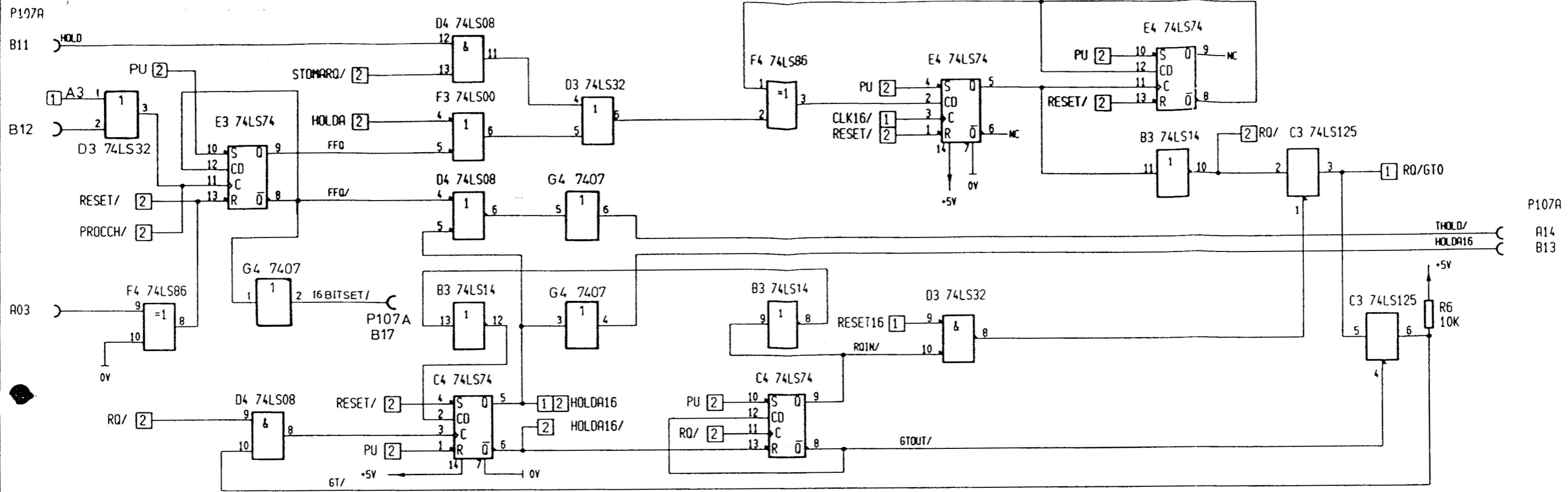


\* 3 ALLE WIDERSTANDSWERTE SIND IN OHM  
ALL RESISTANCE VALUES ARE IN OHM

\* 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: 01-373  | GEZÄMPLER: 801-84 | DESK: 017-0033501             | GRUPPE: 017  |
| GEZÄMPLER: 801-84   | DESK: 017-0033501 | KONSTR. Designer: [Signature] | NAME: SCHEMATIC 16-BIT PULSE AND INTERRUPT CONTROLLER-8088 |
| REV: 17DR01413  | KN: 287           | ERSETZT DURCH: Super          | BLATT: 1 VON 3   |
| DEV REL NO: [Blank]   | NAME: [Blank]     | DATE: [Blank]                 | MASSTAB: 017-0033501                                       |
| REV: 17DR01413  |                   | KN: 287                       | DATE: 017-0033501  |



|                              |  |  |  |  |  |
|------------------------------|--|--|--|--|--|
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| A 17DR01413 Kn: 2-84         |  | KLASSE: 3273<br>GEZ. AM: 30.1.84<br>GEZ. DIS: 30.1.84<br>ERSETZT DURCH: Suppl. by:   |  | GEF. ORG.:<br>KONSTR. DESIGNS: Lu.<br>DATE: 17.11.84   |  |