

156008583

1888 2506
211 DISK
LEVEL 7

DOCUMENTATION PACKAGE

JULY/AUG 1985

A

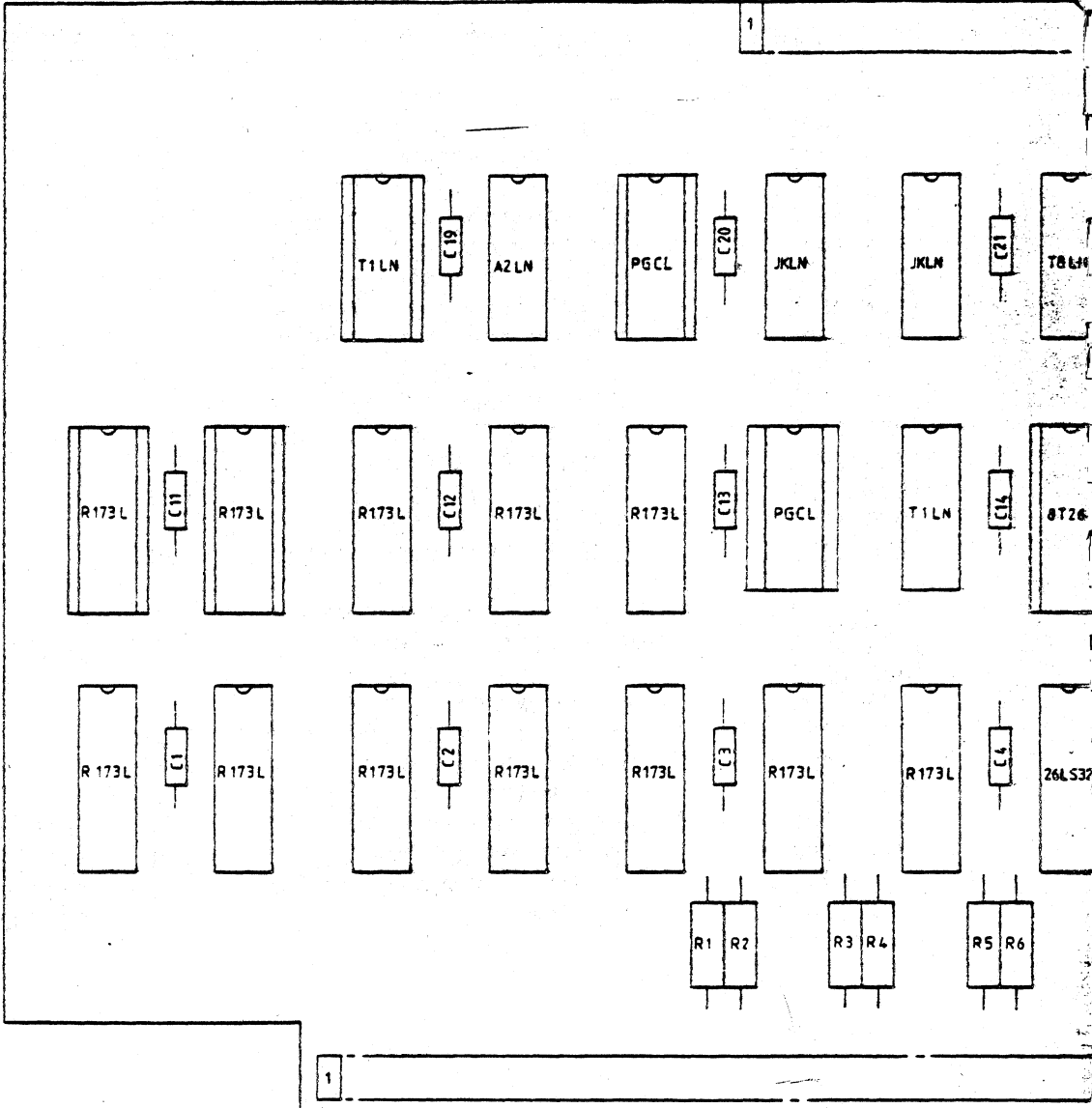
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DO NOT SCALE

REVISIONS	
A	RHACM
	INITIAL RELEASE

H
G
F
E
D
C
B
A

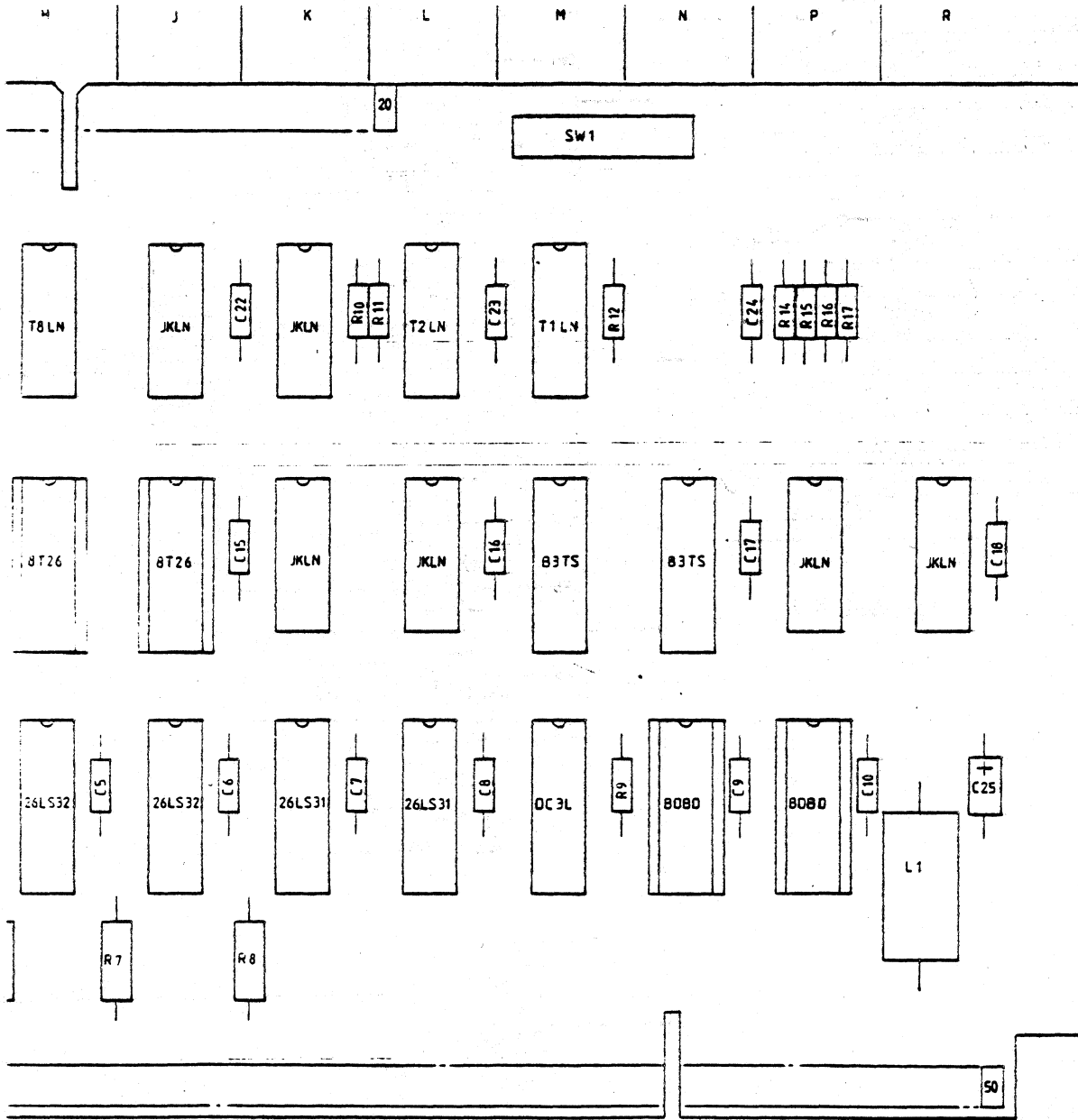
A B C D E F G H



8 7 6 5 4


IF IN DOUBT - ASK

E-1884 3623



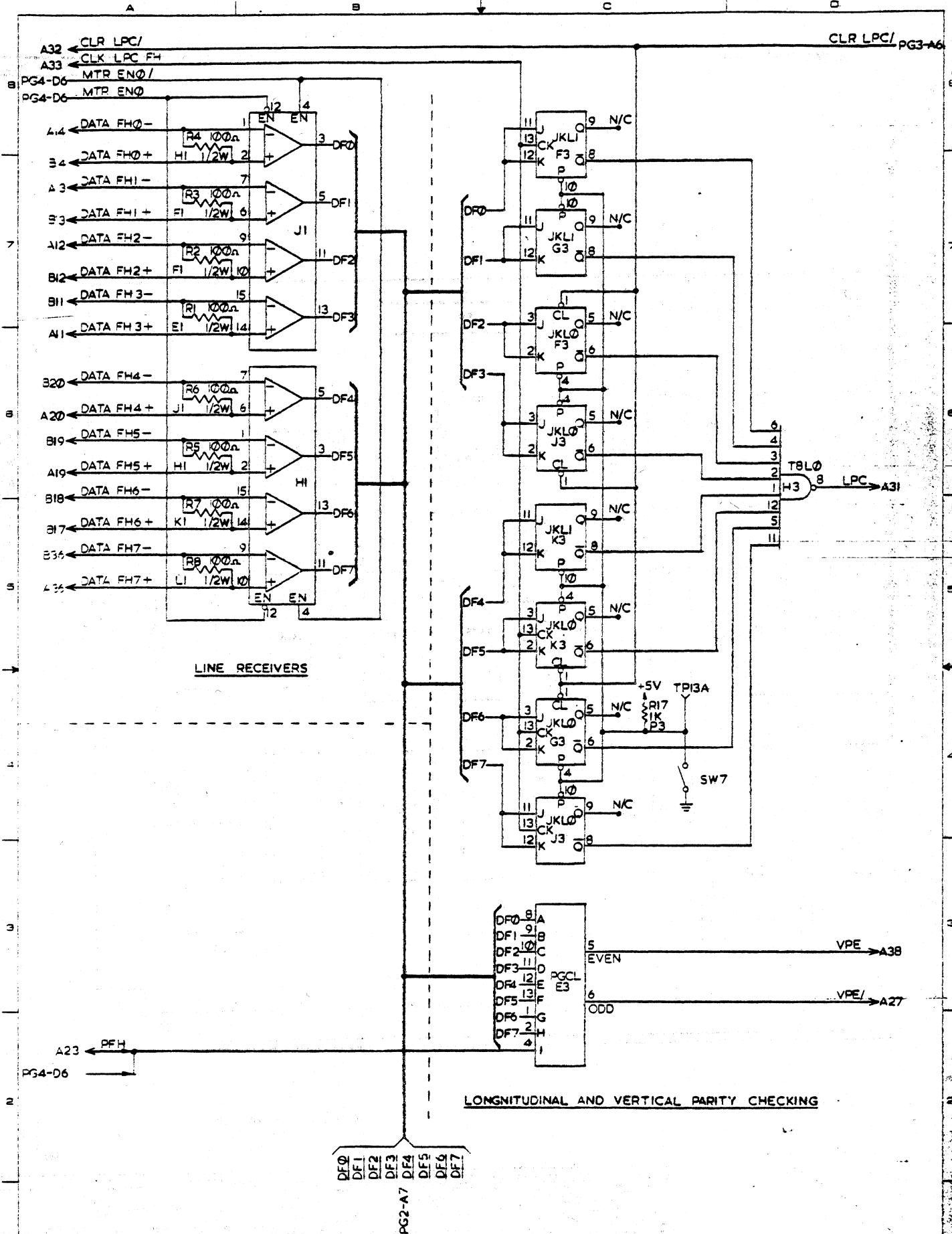
FOR SCHEMATIC SEE 1884 3631

J1

GEN QUAL SPEC 183 5543 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED		REVISED	DATE	Burroughs 	
010 - 100 - 000 - 000	HOLE DIMETER TOLERANCES	XXX1	XXX1	ANGLES :	
100 - 200 - 000 - 000	MATERIAL	XXX1	XXX1	ANGLES :	
200 - 300 - 000 - 000	HEAT TREATMENT	XXX1	XXX1	ANGLES :	
300 - 400 - 000 - 000	SURFACE TREATMENT	XXX1	XXX1	ANGLES :	
400 - 500 - 000 - 000	UNLESS OTHERWISE SPECIFIED	XXX1	XXX1	ANGLES :	
500 - 600 - 000 - 000	PROPERTY TO BURROUGHS - NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT BY BURROUGHS' ORDER OR WRITTEN CONSENT	XXX1	XXX1	ANGLES :	
600 - 700 - 000 - 000	APPROVED	DATE	DATE	TITLE	CLASS CODE
700 - 800 - 000 - 000	BY	DATE	DATE	I/O BOARD 1 ASSEMBLY	2-7045
800 - 900 - 000 - 000	SCALE	OF	OF	SCALE	OF
900 - 1000 - 000 - 000				E-1884 3623	

INPUTS

OUTPUTS



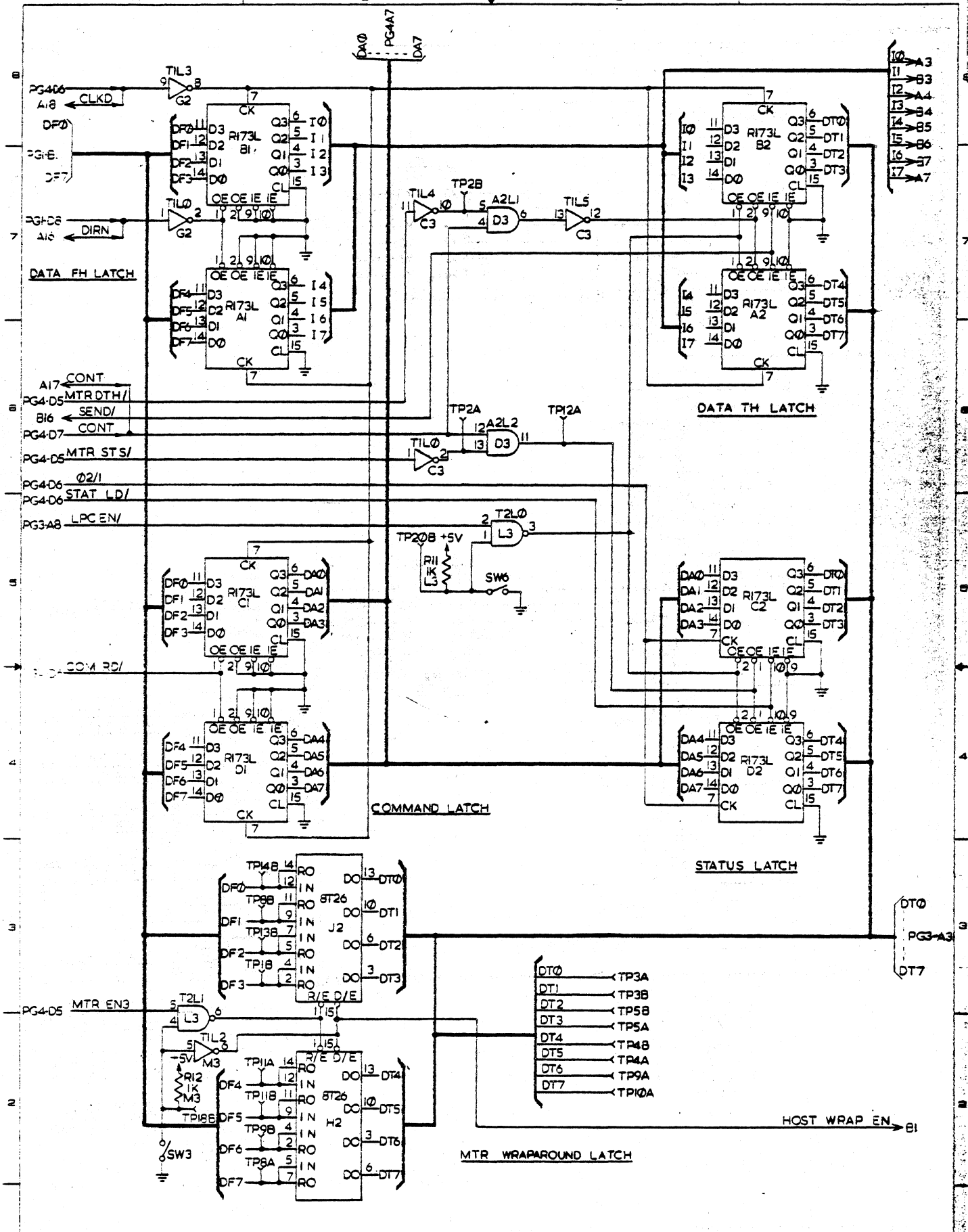
LINE RECEIVERS

LONGITUDINAL AND VERTICAL PARITY CHECKING

1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	Burroughs BURROUGHS MACHINES LIMITED OLNEYTHORPE, SCOTLAND, U.K.		FILE SCHEMATIC I/O BOARD		
	DOC. NO. 018	DESIGN CONTROL 018	CHECKED [Signature]	DATE 2/1/71	DWN. NO. D 1884 3631
	DRAWN J. RALLS	DATE 5/10/70	CHECKED [Signature]	DATE 2/1/71	REV. NO. 1 of 5
	PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MARKETING PURPOSES EXCEPT BY BURROUGHS CROSS OR PAID WRITTEN CONSENT.				

INPUTS

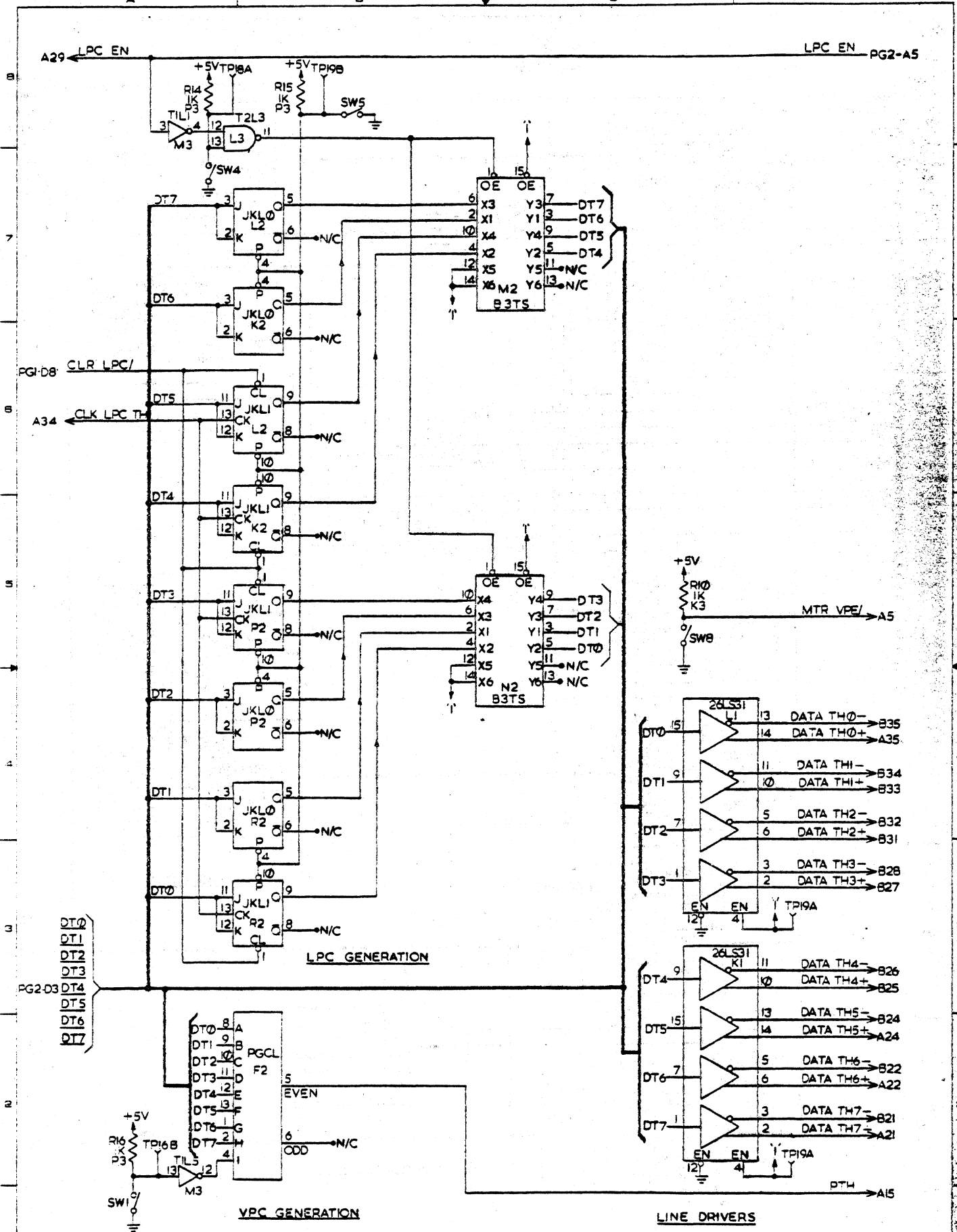
OUTPUTS



1884 3631 2 of 5		BURROUGHS BURROUGHS MACHINES LIMITED GLENROTHES, SCOTLAND, U.K.		TITLE: SCHEMATIC I/O BOARD DOC. TYPE: CONTROL CLASS CODE: 018 DESIGNER: J. RALLS DATE: 11/02/59				CHECKED: [Signature] DATE: 8/1/61 D 1884 3631 DATE: 8/1/61 SHEET: 2 of 5	
---------------------	--	---	--	---	--	--	--	--	--

INPUTS

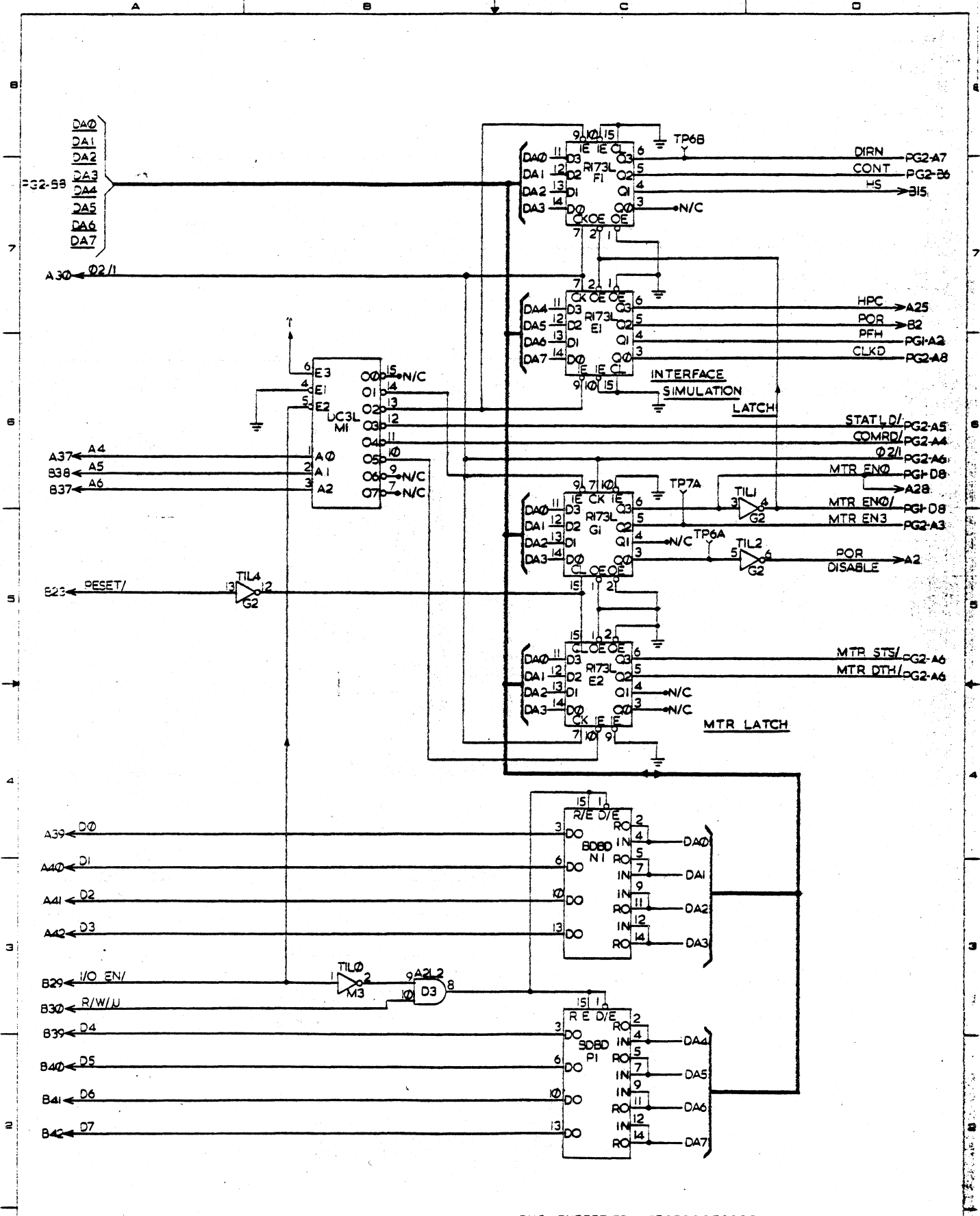
OUTPUTS



1884 3631 3 5	DATE: 11/27/78 DRAWN: J.RALLS	CHECKED: [Signature] DATE: 11/19/78 ENGINEER: [Signature]	D 1884 3631 3 5
	TITLE: SCHEMATIC I/O BOARD		DESIG. CONTROL: 018
	PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT BY BURROUGHS ORDER OR FAVOR WRITTEN CONSENT.		

INPUTS

OUTPUTS

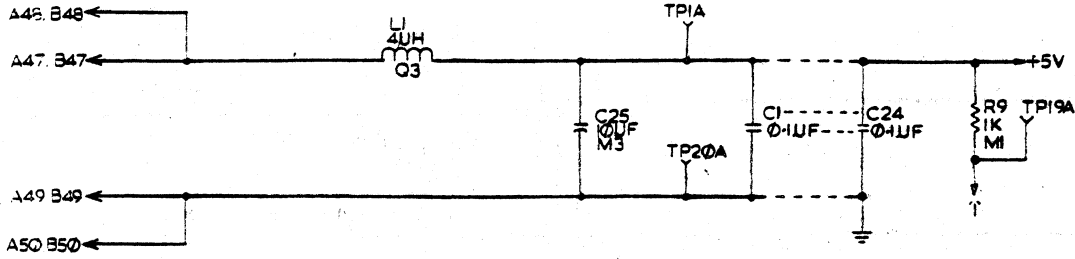


BUS BUFFER TO MICROPROCESSOR

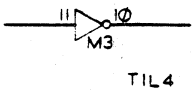
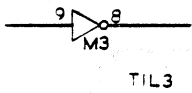
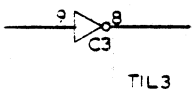
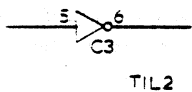
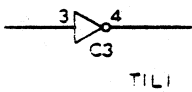
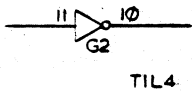
1884 3631 4 of 5		Burroughs BURROUGHS MACHINES LIMITED GLENROTHES, SCOTLAND, U.K.		TITLE: SCHEMATIC I/O BOARD DOC. TYPE: JERON CONTROL CLASS CODE: 018 DATE: 10/15/68 DRAWN: J. RALLS		CHECKED: [Signature] DATE: 11/11/68 APPROVED: [Signature] DATE: 5/1/69		ENG. NO.: D 1884 3631 SHEET: 4 of 5 REV: D	
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INPUTS

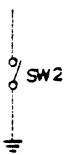
OUTPUTS



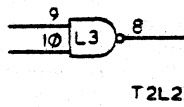
UNUSED INVERTORS



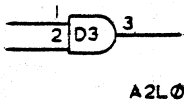
UNUSED SWITCH



UNUSED NAND GATE



UNUSED AND GATE



SPARE ADDRESS DECODES

CHIP MI PINS 7,9 AND 15

SPARE LATCHES

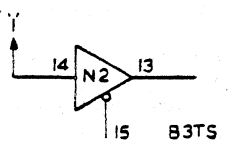
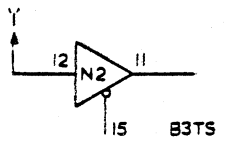
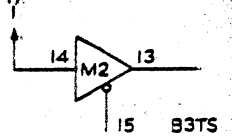
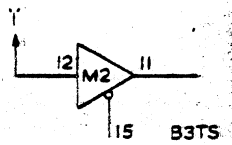
NB CLOCKS I/P AND O/P ENABLE HAVE ALREADY BEEN ALLOCATED

- 1 IC F1 PIN 3 INPUT IS DATABUS 3
- 2 IC G1 PIN 4 INPUT IS DATABUS 2
- 3 IC E2 PIN 3 INPUT IS DATABUS 3
- 4 IC E2 PIN 4 INPUT IS DATABUS 2

NOTES

- 1. FOR ASSEMBLY SEE E 1884-3623
- 2. UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHMS
- 3. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4W ±2%

UNUSED TS BUFFERS

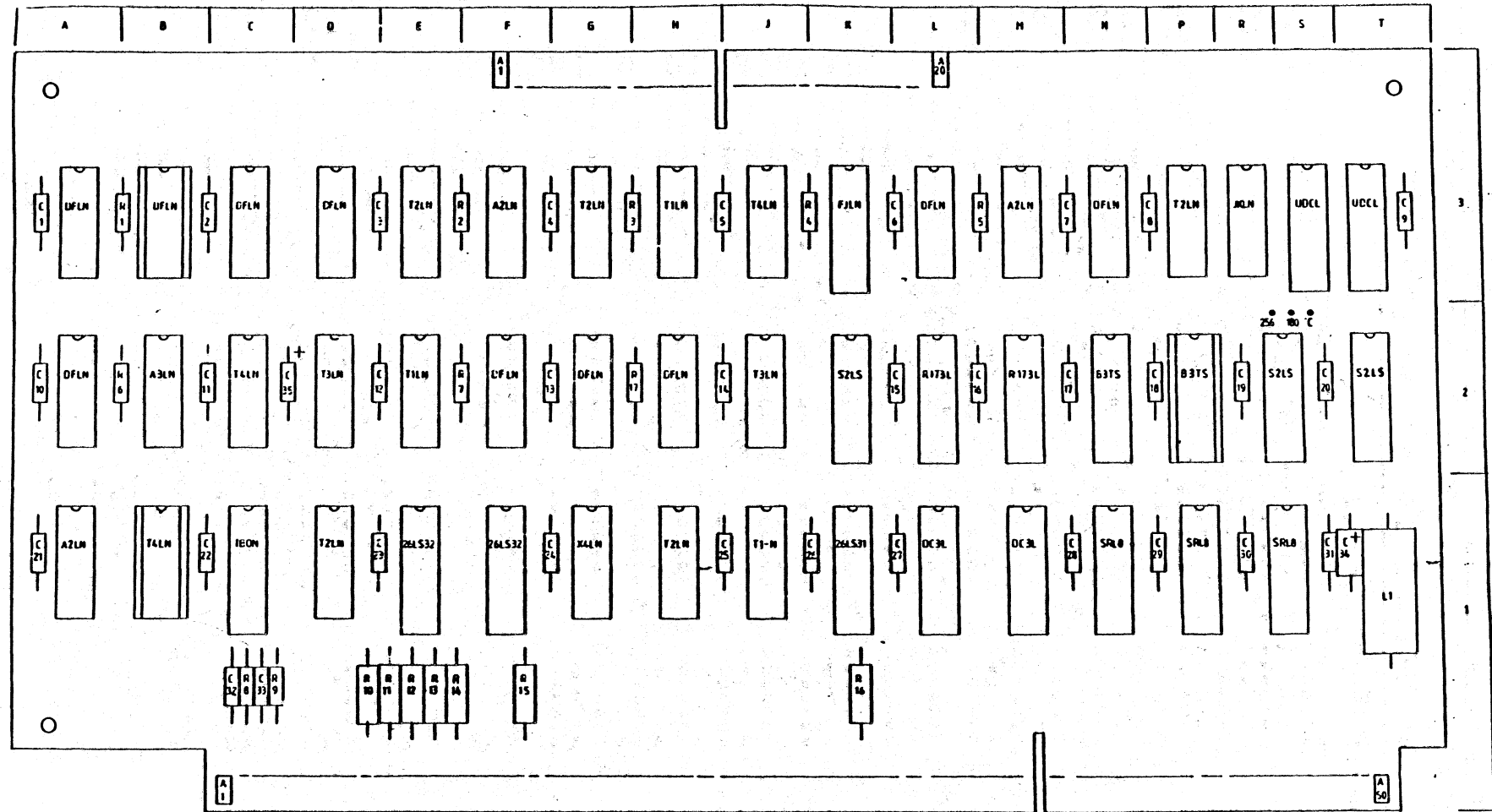


1884 3631 5 of 5	BURROUGHS BURROUGHS MACHINES LIMITED GLENROTHY, SCOTLAND, U.K.	TITLE SCHEMATIC I/O BOARD	
		DOC. TYPE 018	DESIGN CONTROL
1884 3631 5 of 5	BURROUGHS BURROUGHS MACHINES LIMITED GLENROTHY, SCOTLAND, U.K.	CLASS CODE	CHECKED BY J. RALLS DATE 13/10/68
		DATE 13/10/68	DESIGNED BY J. RALLS DATE 13/10/68
PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.		DWT 5 of 5	D

DO NOT SCALE IF IN DOUBT - ASK

E-106 5733

INITIAL RELEASE
 R17 AND
 RELOCATED
 OF 17 POLARITY
 ADDED



NOTES:-
 1. FOR 160 BYTE SECTORS LINK BETWEEN C AND 183, NO LINK BETWEEN C AND 256.
 2. FOR 256 BYTE SECTORS LINK BETWEEN C AND 256, NO LINK BETWEEN C AND 183.

INDICATES CHANGE
 PRODUCED BY
 AM DEC. 3. 84

REWORK INSTR.
 ECN 06390

1886 8000 REF. *

FOR SCHEMATIC SEE 1886 7994 REV E
 J2
 31830342 REV B
 SHEET 1 OF 2

REV	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Burroughs
 ASSEMBLY 102 BOARD

LINK BETWEEN A1-1 & A1-2 LINK BETWEEN A1-2 & A1-3

★ BEDDCE TO 4 INCHES & P.T.H

LINK BETWEEN E2-10 & D3-11

LINK BETWEEN PTH & A1-3

CUT TRACK BETWEEN P.T.H

LINK BETWEEN E2-8 & A2-11

LINK BETWEEN F1-11 & E2-9

LINK BETWEEN E2-9 & E2-11

★ CUT TRACK BETWEEN G2-3 & PTH

CUT TRACK BETWEEN B3-11 & B3-3

ART 1000 0000 REV A

SOLDER SIDE

REDUCE TO 8 INCHES

APPROVED	DATE	BY
CIRCUITS FINITED		
DRN BY		
PREPARED		
Prunodpe		
ARTWORK	IN 8 BOARD	SIZE NO. 1000 0000
TITLE	SHEET 2 OF 2	REV
OF ENROLLERS SCOTLAND		
BURROUGHS MACHINES		
COM 810		
5804		

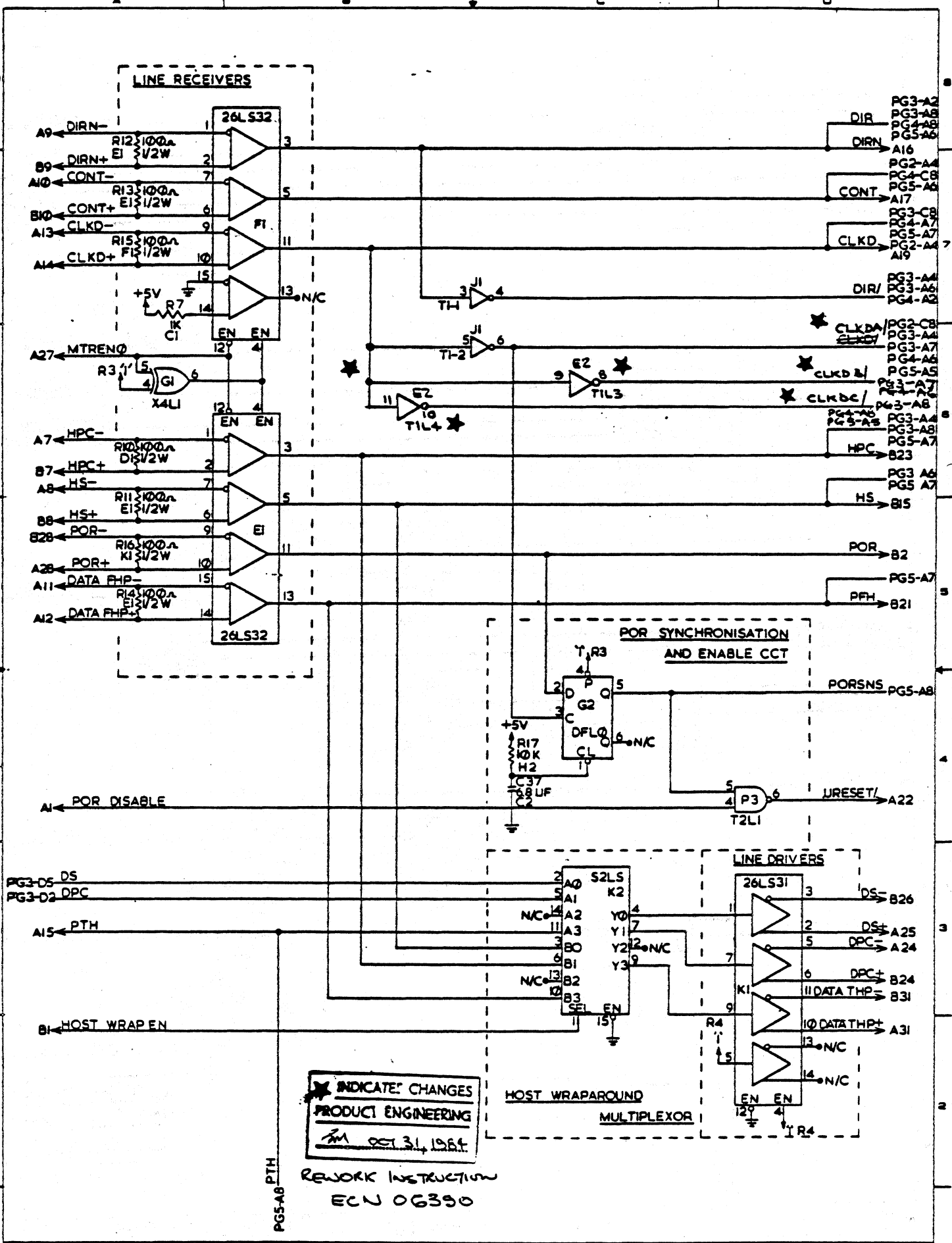
★ INDICATES CHANGES
PRODUCT ENGINEERING
JUL OCT 31 84

REWORK INSTRUCTION
ECN 06390

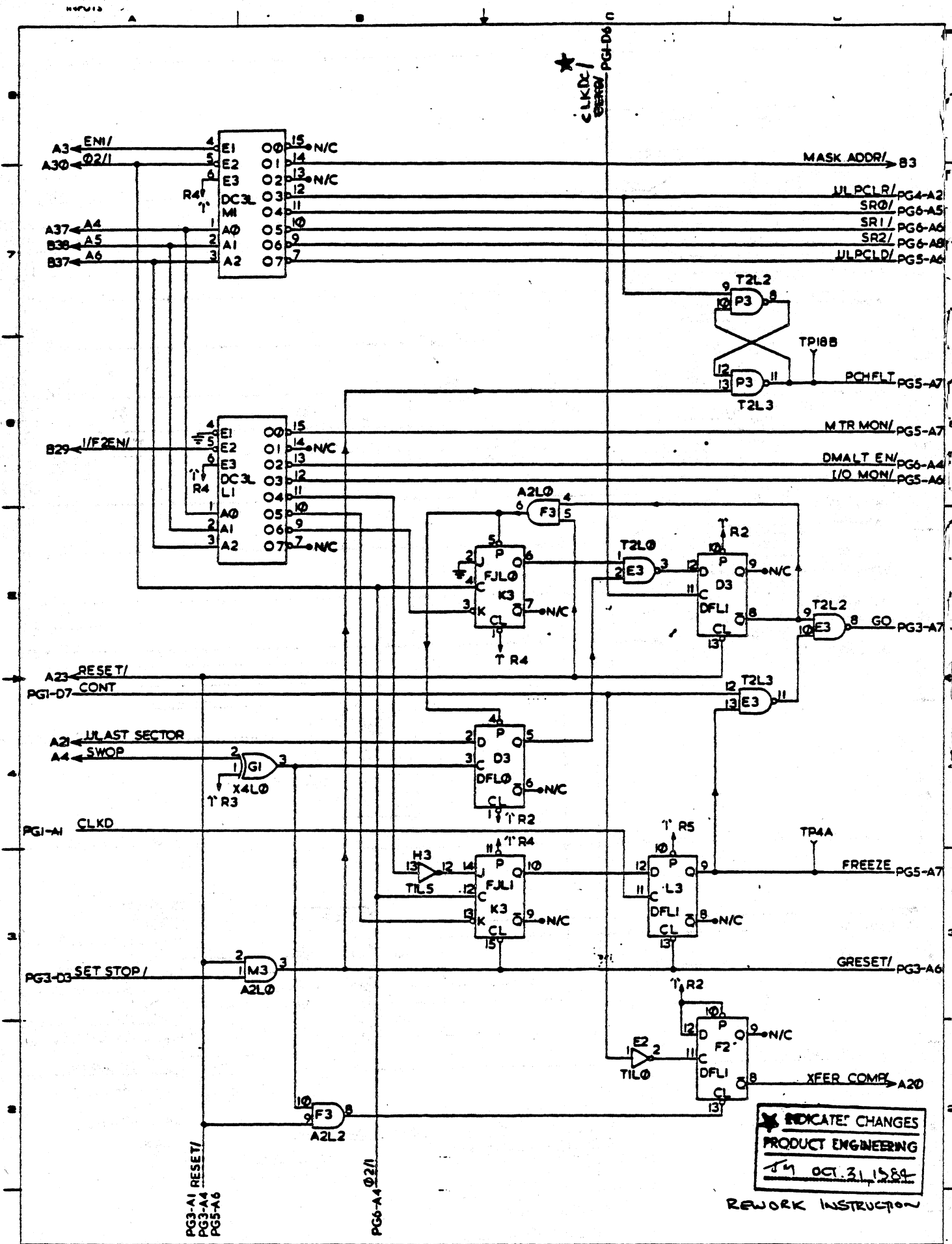
★ INDICATES CHANGES
PRODUCT ENGINEERING
JAN DEC 3 84

IO 2 ASSEMBLY 3183 REV C

★ THESE MODIFICATIONS TO BE CARRIED OUT ON PWB 1000 0000



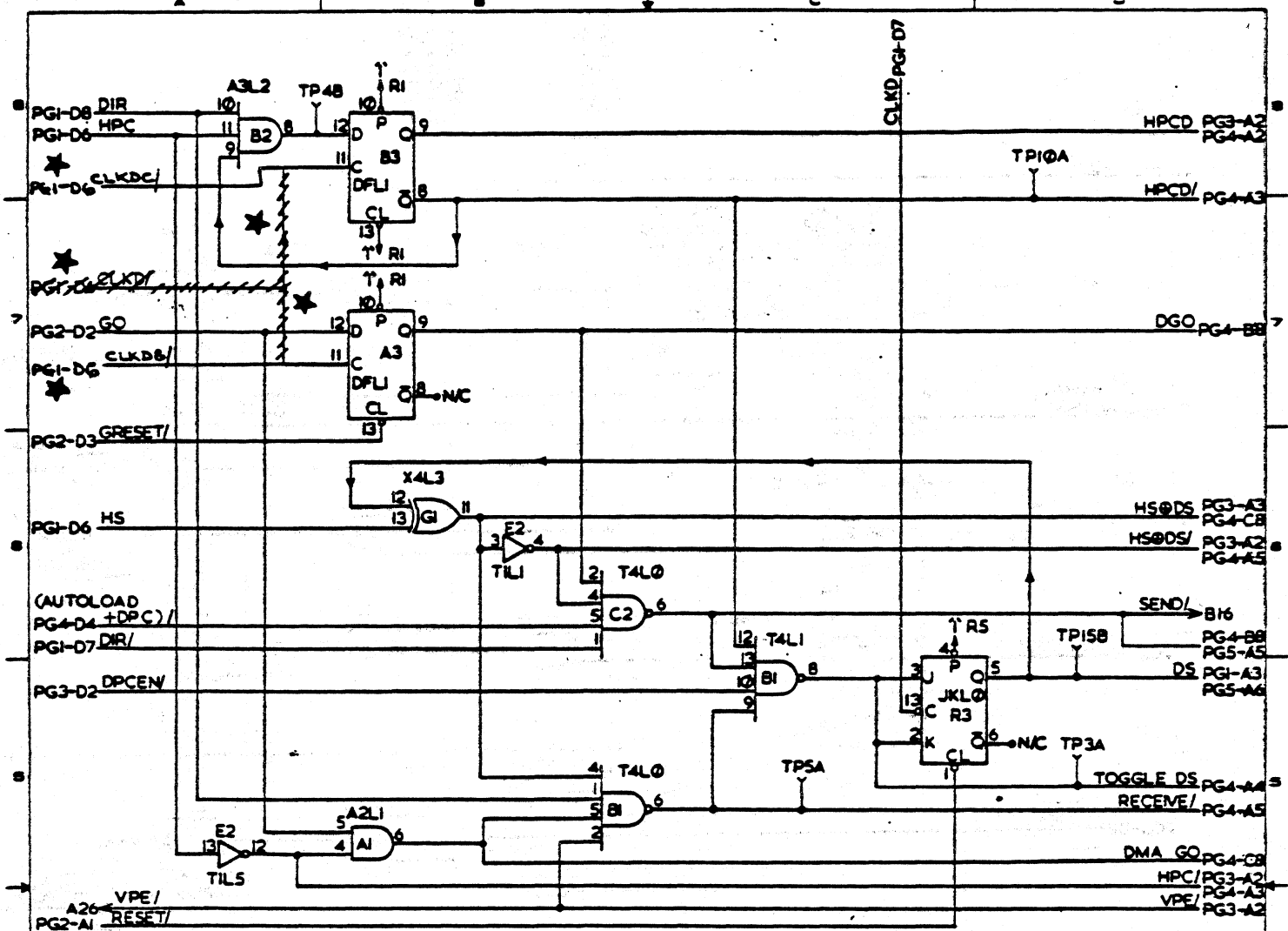
1886 7994		1100		Burrhus		S2LS		TITLE	
1886 7994		1100		Burrhus		S2LS		SCHEMATIC I/O2 BOARD	
1886 7994		1100		Burrhus		S2LS		018	
1886 7994		1100		Burrhus		S2LS		A. ADAMS 25/7/80	
1886 7994		1100		Burrhus		S2LS		D 1886 7994	
1886 7994		1100		Burrhus		S2LS		1 = 7	



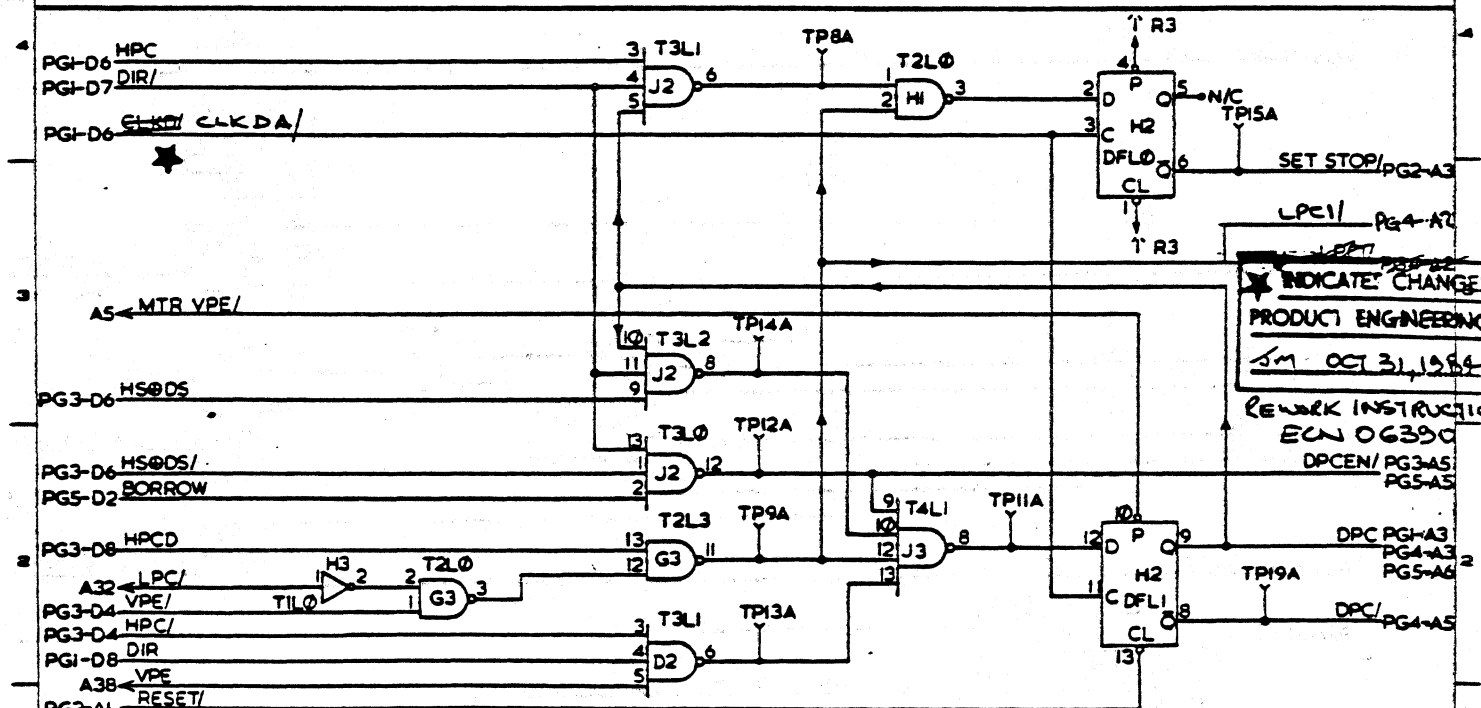
* INDICATE CHANGES
 PRODUCT ENGINEERING
 29 OCT 31 1984

REWORK INSTRUCTION

1886 7994 2 = 7	1105 1105 1105	BURROUGHS CORPORATION CLEARING HOUSE, U.S.A.	I/O 2 BOARD			
			018	018	018	018
A ADAMS	25/780	25/780	25/780	25/780	25/780	



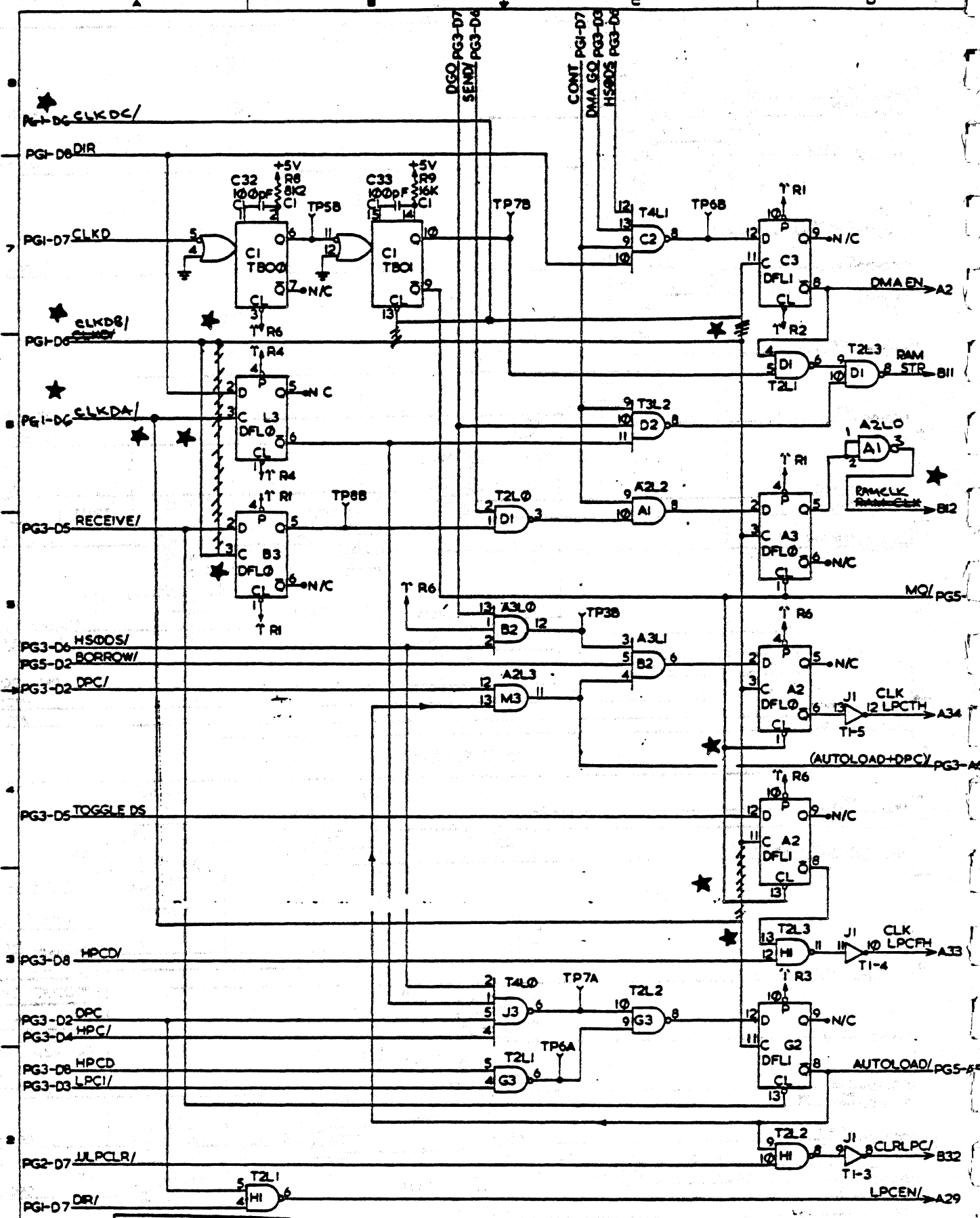
DS GENERATION



DPC GENERATION

INDICATE CHANGES
 PRODUCT ENGINEERING
 SM OCT 31, 1984
 REWORK INSTRUCTION
 ECN 06390
 DPCEN/ PG3-A5
 PG5-A5

1886 7994	3 of 7	DATE	11/05/84	BY	WT	REVISION	1			SCHEMATIC I/O2 BOARD									
		DESIGNER	A ADAMS	DATE	23/7/80	ISSUED	018	SCALE	1:1	REVISED		DATE	11/05/84	BY	WT	REVISION	1		D 1886 7994
		CHECKED		APPROVED		DATE		PROJECT		BY		DATE		BY		REVISION			
		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE			



★ INDICATES CHANGES
 PRODUCT ENGINEERING
 SM 091.34 1984

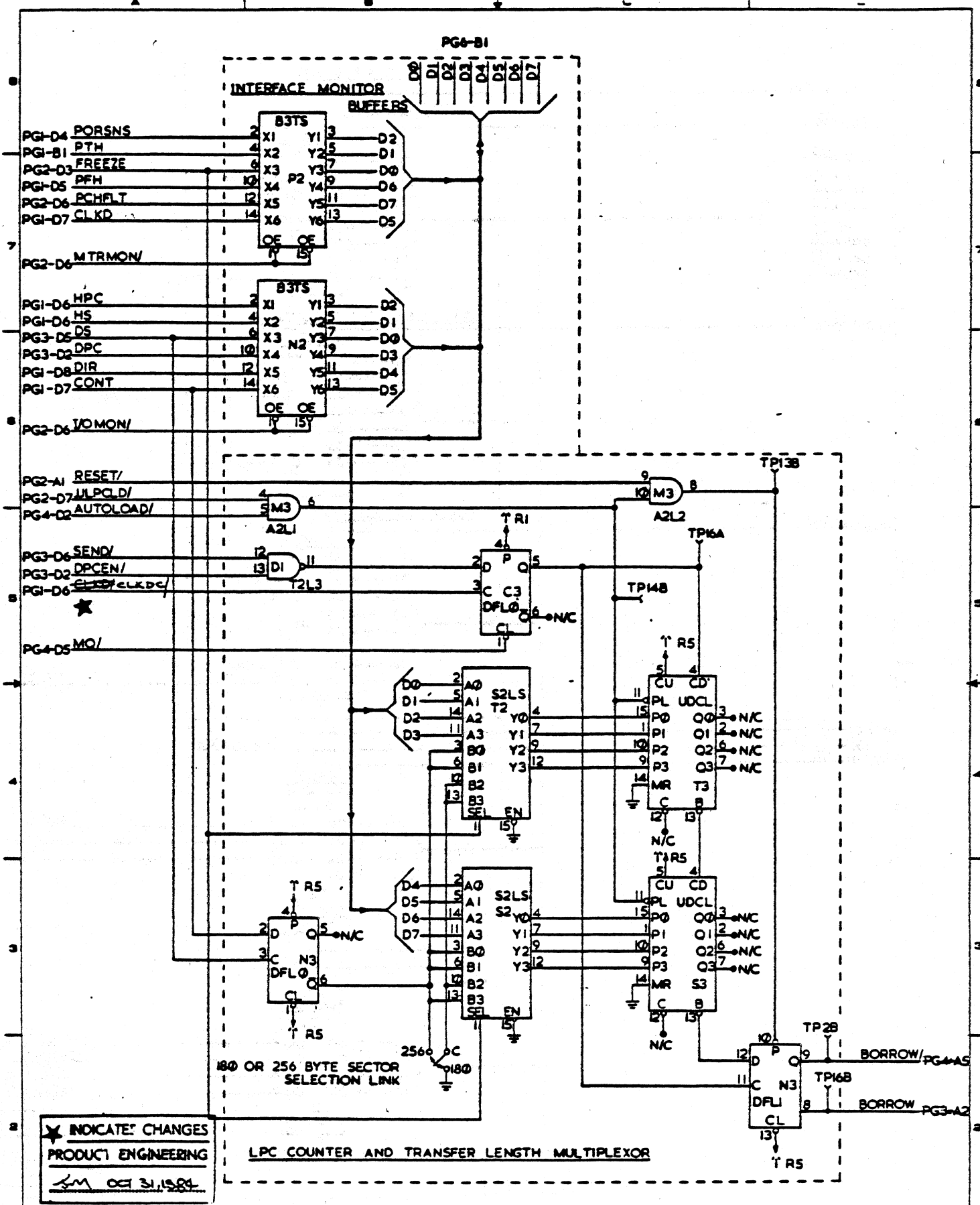
DMA RAM AND LPC REGISTER CONTROL
 RERWORK INSTRUCTION ECN 06390

186 7994
 4-7

Burroughs

PROPERTY TO BURROUGHS, NOT TO BE REPRODUCED OR USED FOR ANY PURPOSES WITHOUT EXPRESS WRITTEN PERMISSION OF BURROUGHS.

SCHEMATIC I/O2 BOARD			
DATE	DESIGN	BY	CHK
018	MS	MS	MS
DATE	BY	CHK	REV
23/7/80	A ADAMS	MS	4-7

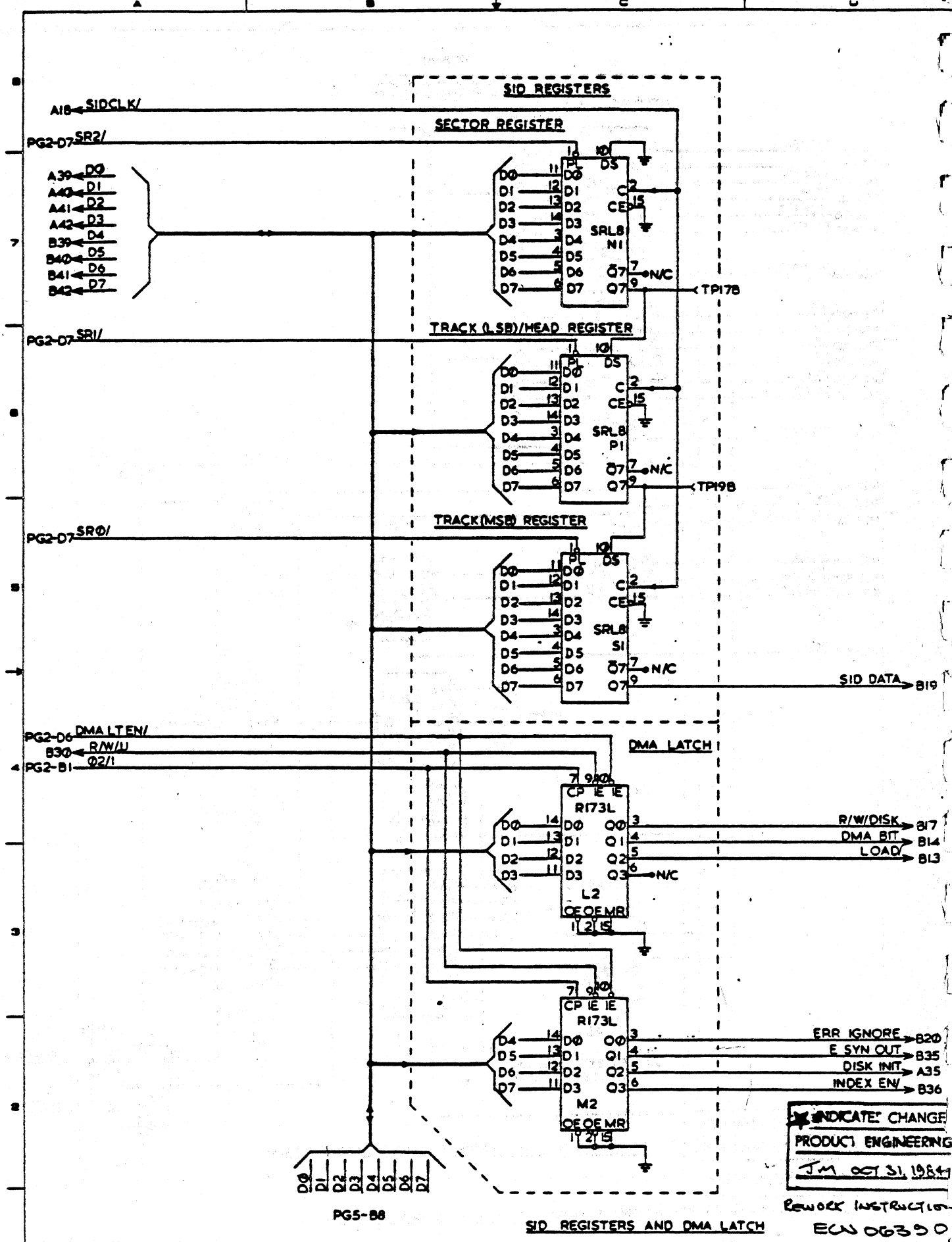


* INDICATE CHANGES
 PRODUCT ENGINEERING
 31 OCT 31 1984

LPC COUNTER AND TRANSFER LENGTH MULTIPLEXOR

REWORK INSTRUCTION INTERFACE MONITOR BUFFER AND LPC COUNTER
 ECN 06390

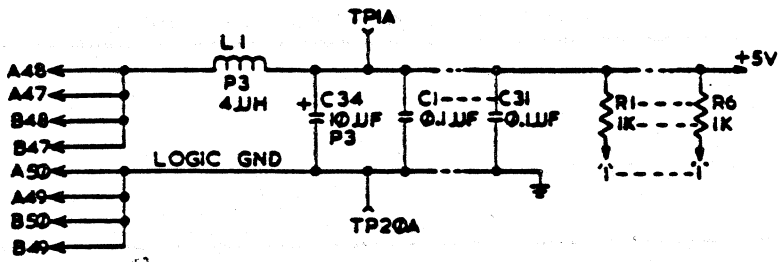
1	5-7	1886 7994	REV	DATE	BY	CHKD	SCHAFFNER		D 1886 7994	
							018	11/11/84		
PROPRIETARY TO BURROUGHS, MAY NOT BE REPRODUCED OR USED FOR ANY PURPOSES WITHOUT WRITTEN CONSENT OF BURROUGHS.							SCHEMATIC I/O2 BOARD A ADAMS 25/7/84			



INDICATE CHANGE
 PRODUCT ENGINEERING
 JM OCT 31, 1984

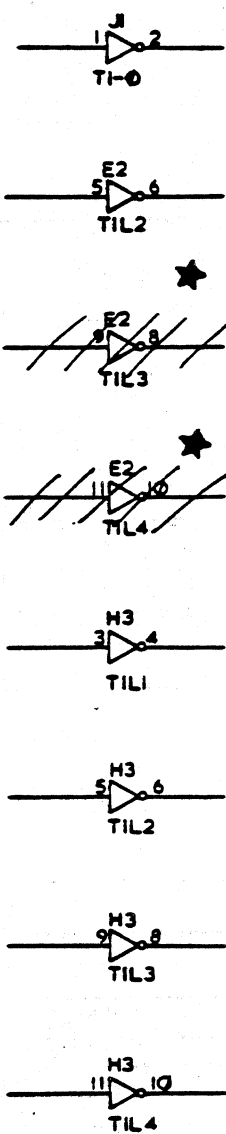
REWORK INSTRUCTION
 ECU 06390

1886 7994		6-7		Barroughs		SCHAEMATIC I/O2 BOARD	
1102		1102		REVISION		REV. NO.	
1886 7994		6-7		A ADAMS		D 1886 7994	
1886 7994		6-7		A ADAMS		D 1886 7994	

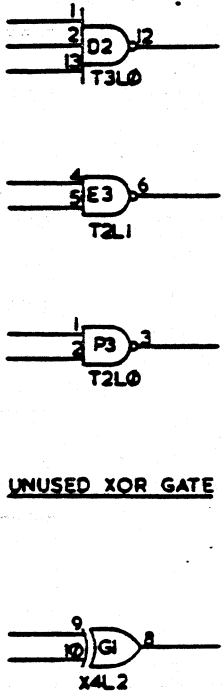


- NOTES
1. FOR ASSEMBLY SEE ~~1886-0444~~ 3183 0242 *
 2. UNLESS OTHERWISE SPECIFIED RESISTANCE VALUES ARE IN OHMS
 3. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/4W ±2%
 4. FOR WIRE LINK INFO SEE ASSEMBLY AND 1886-1906

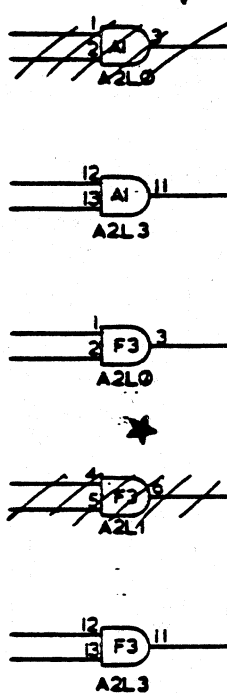
UNUSED INVERTERS



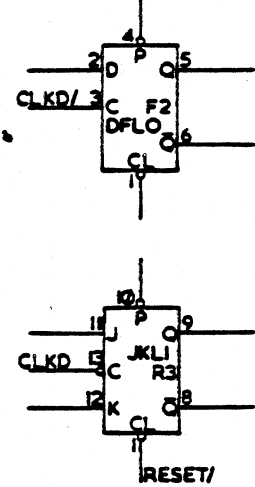
UNUSED NAND GATES



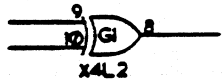
UNUSED AND GATES



UNUSED FLIP-FLOPS



UNUSED XOR GATE

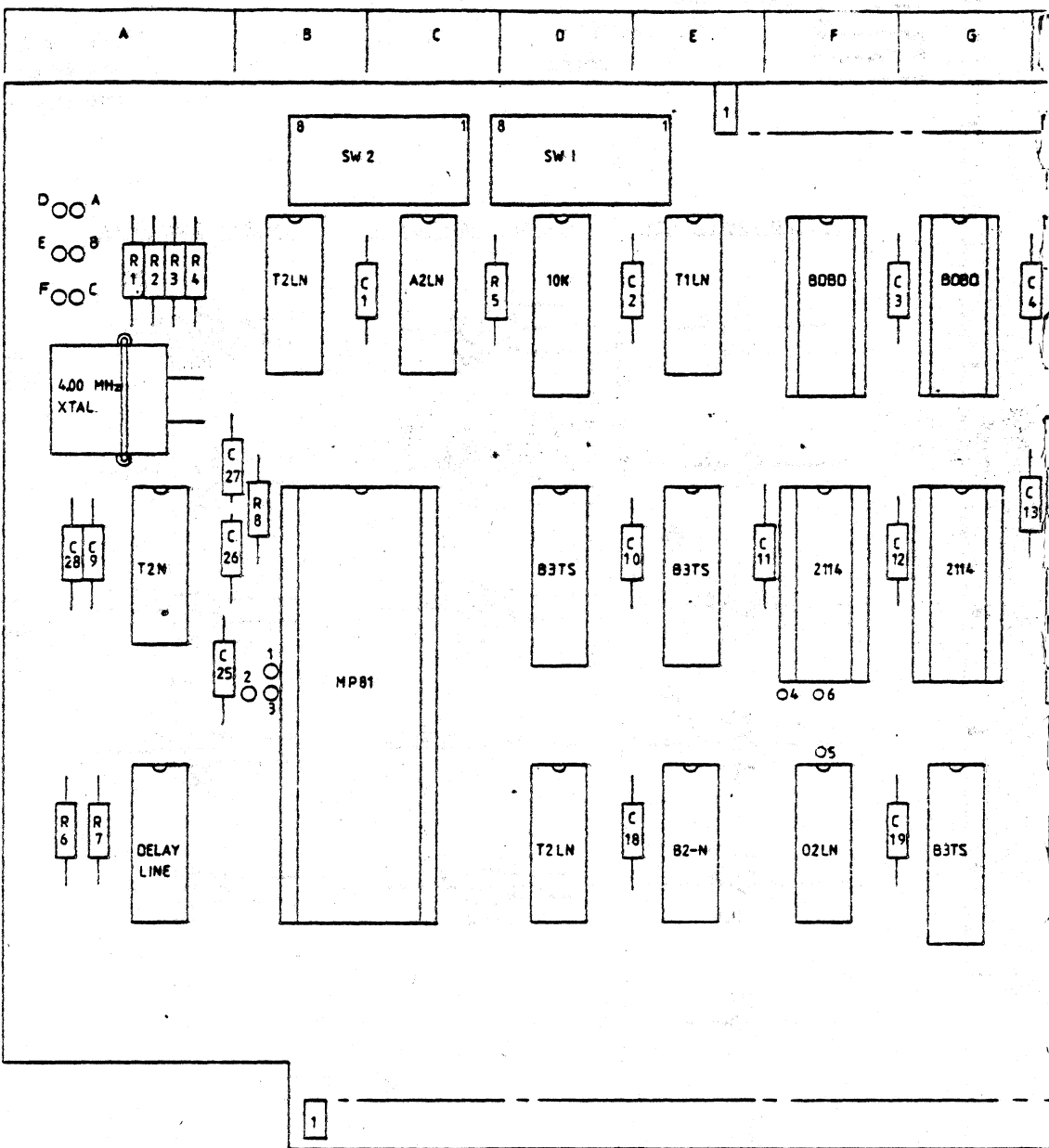


★ INDICATES CHANGES
 PRODUCT ENGINEERING
 SM 09 31 1984

REWORK INSTRUCTION
 ECN 06380

1886 7994 7-7	1186 1186 1186	1186 1186 1186	1186 1186 1186	1186 1186 1186	1186 1186 1186	BARROROUGH'S				SCHEMATIC 1/02 BOARD			
						BARROROUGH'S ELECTRONIC LABORATORIES BARROROUGH, PENNSYLVANIA, U.S.A.				018 A. ADAMS 25/780			

RHA
 INITIAL RELEASE
 SEE EON
 SEE EON
 CHANGE TO INTERLACE LEGEND
 ADDITION OF WIRE LINK INFORMATION
 GR E7 LINK 1, 2, 3 ADDED



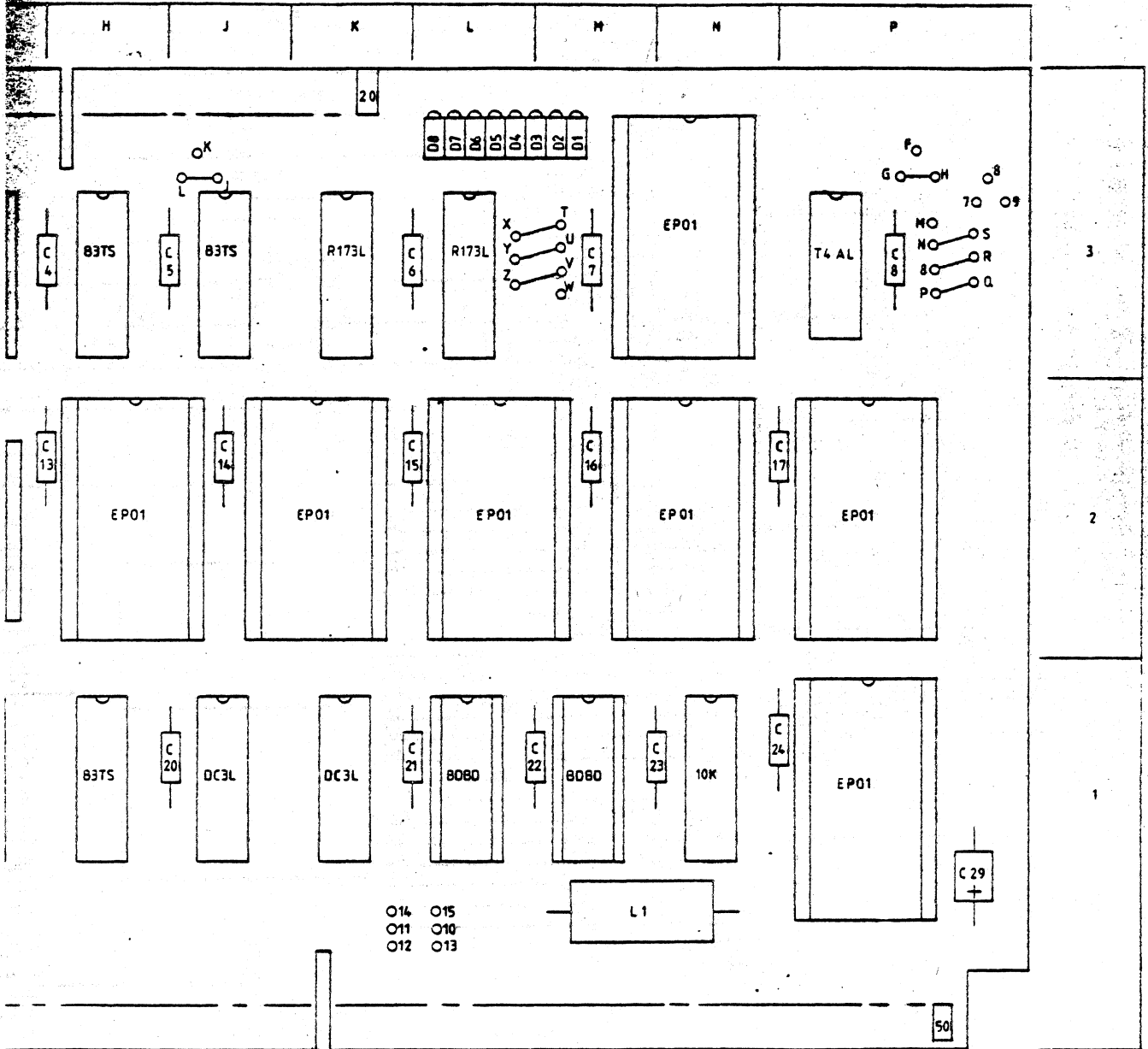
NOTES ①

DESIRED INTERLACE FACTOR	REQUIRED WIRE LINKS
0	E→F AND B→C
1	E→F " B→A
3	E→D " B→C
7	E→D " B→A

③ ALL FSM UNITS, LINK 1 AND 2, OTHERS LINK 1 AND 3

IF IN DOUBT - ASK

E-1884 4936



NOTES (2) (a) FOR 4K PROMS SIMILAR TO 'TI' 2532 USE TABLE BELOW

PROM POSITIONS							DESIRED PROM CONFIGURATION	REQUIRED WIRE LINKS
H2	K2	L2	N2	P1	P2	N3		
2K	2K	2K	2K	2K	2K	2K	14K	14→8; 11→10; 7→8 AND 6→5
2K	2K	2K	2K	4K	4K	—	16K	11→12; 10→13; 8→9 AND 6→5
2K	2K	2K	2K	4K	4K	2K	18K	11→12; 10→13; 8→9 AND 6→5
4K	—	4K	—	4K	4K	4K	20K	11→12; 10→13; 8→9 AND 6→5

(2) (b) FOR 4K PROMS SIMILAR TO 'INTEL' 2732 REFER TO WIRE LINK INFO 1886 1906

KEY
 A —
 B —
 O —
 REPRESENTS A WIRE LINK WHICH IS ACTUALLY TRACKED ON THE PCB

J3

GEN QUAL SPEC 1883 5243 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED

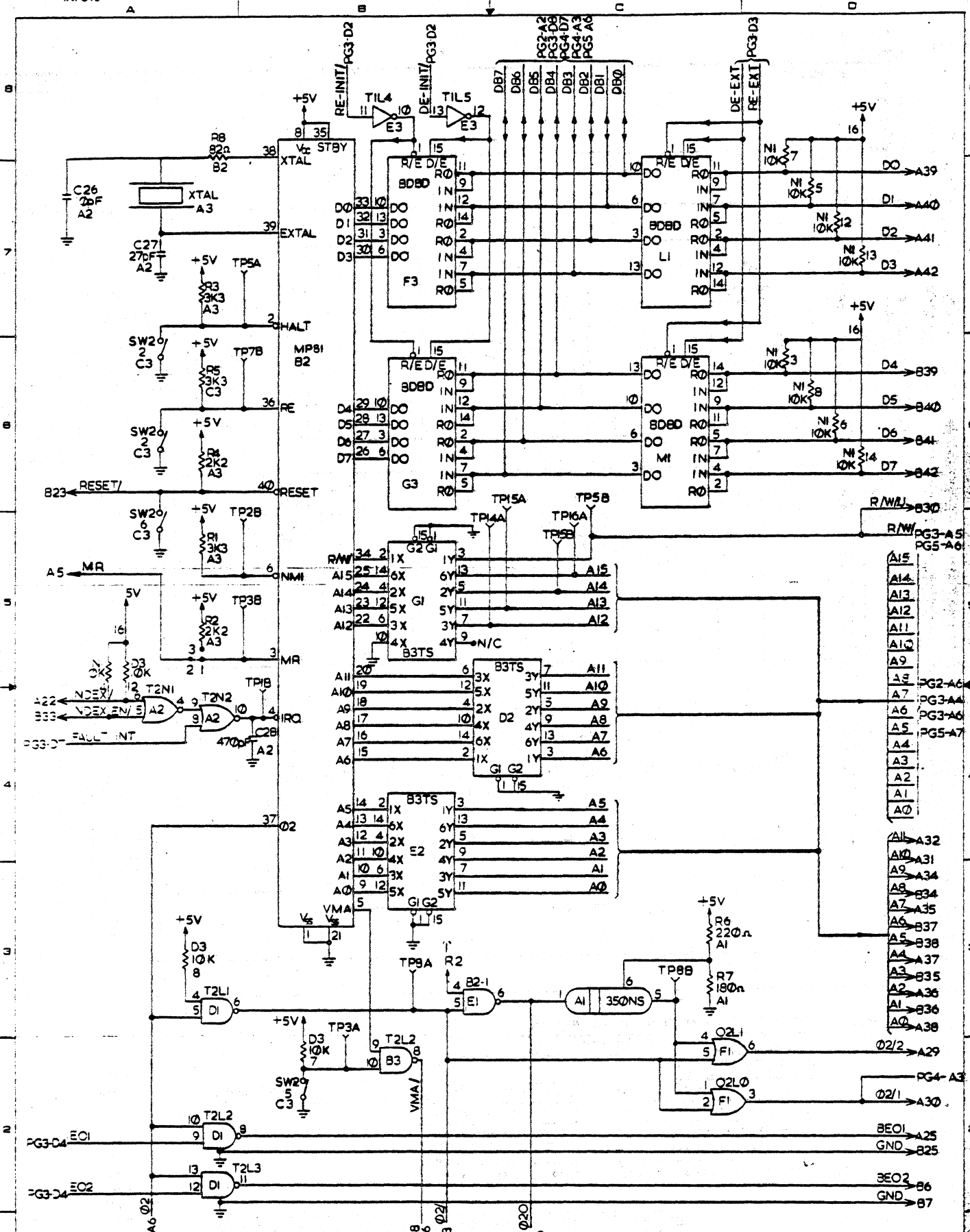
WIRE DIMENSIONS TOLERANCES	TOLERANCES UNLESS OTHERWISE SPECIFIED XXXX	ANGLES	DATE MAR 79
100 - 100 ± 0.05 - 0.05	MATERIAL	DRYING	DATE 7/11/79
100 - 100 ± 0.05 - 0.05	HEAT TREATMENT	DRYING ON OTHER	DATE 7/11/79
500 - 750 ± 0.05 - 0.05	SURFACE TREATMENT	DESIGNED BY N. WARNER	DATE 7/11/79
750 - 1000 ± 0.10 - 0.10		CHECKED BY J. WATSON	DATE 7/11/79
1000 ± 0.10 ± 0.10 - 0.10			

UNLESS OTHERWISE SPECIFIED

BURROUGHS
 BURROUGHS MACHINES LTD GLENROTHES SCOTLAND UK
 TITLE ASSEMBLY MICROCONTROLLER 211
 SCALE 1:1
 DES. NO. E. 1884 4936
 CLASS 0000 7-7045

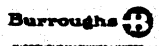
INPUTS

OUTPUTS

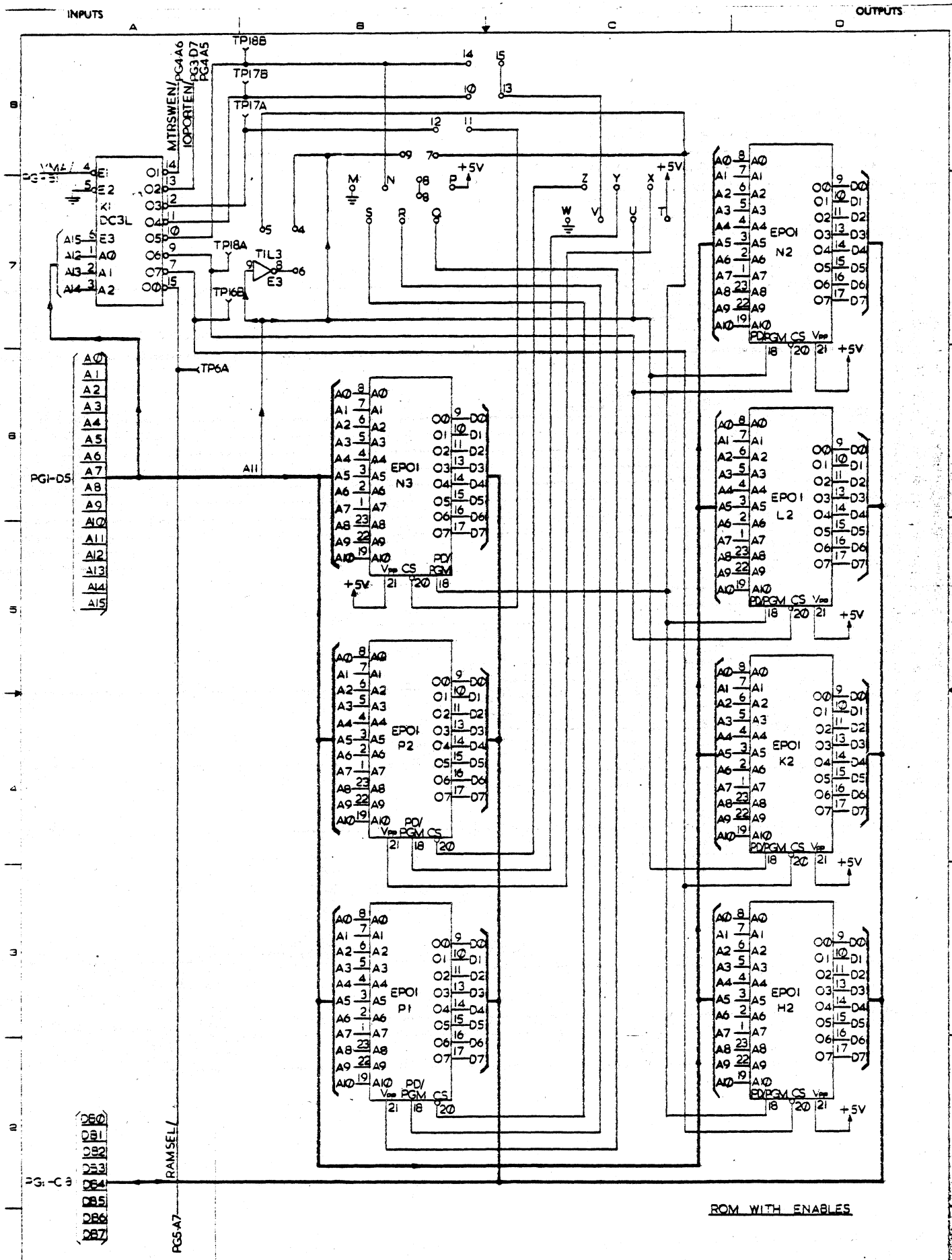


GENERAL MICROPROCESSOR CIRCUITRY AND CLOCK CIRCUITRY

TITLE		SCHEMATIC MICROCONTROLLER	
DOC. TYPE	SYSTEM CONTROL	CHECKED	DATE
		<i>[Signature]</i>	01/11/84
CLASS CODE	018	ENGINEER	D 1884 3904
		<i>[Signature]</i>	01/11/84
DESIGNER	DATE	APPROVED	DATE
J. RALLS	26/9/83	<i>[Signature]</i>	01/11/84

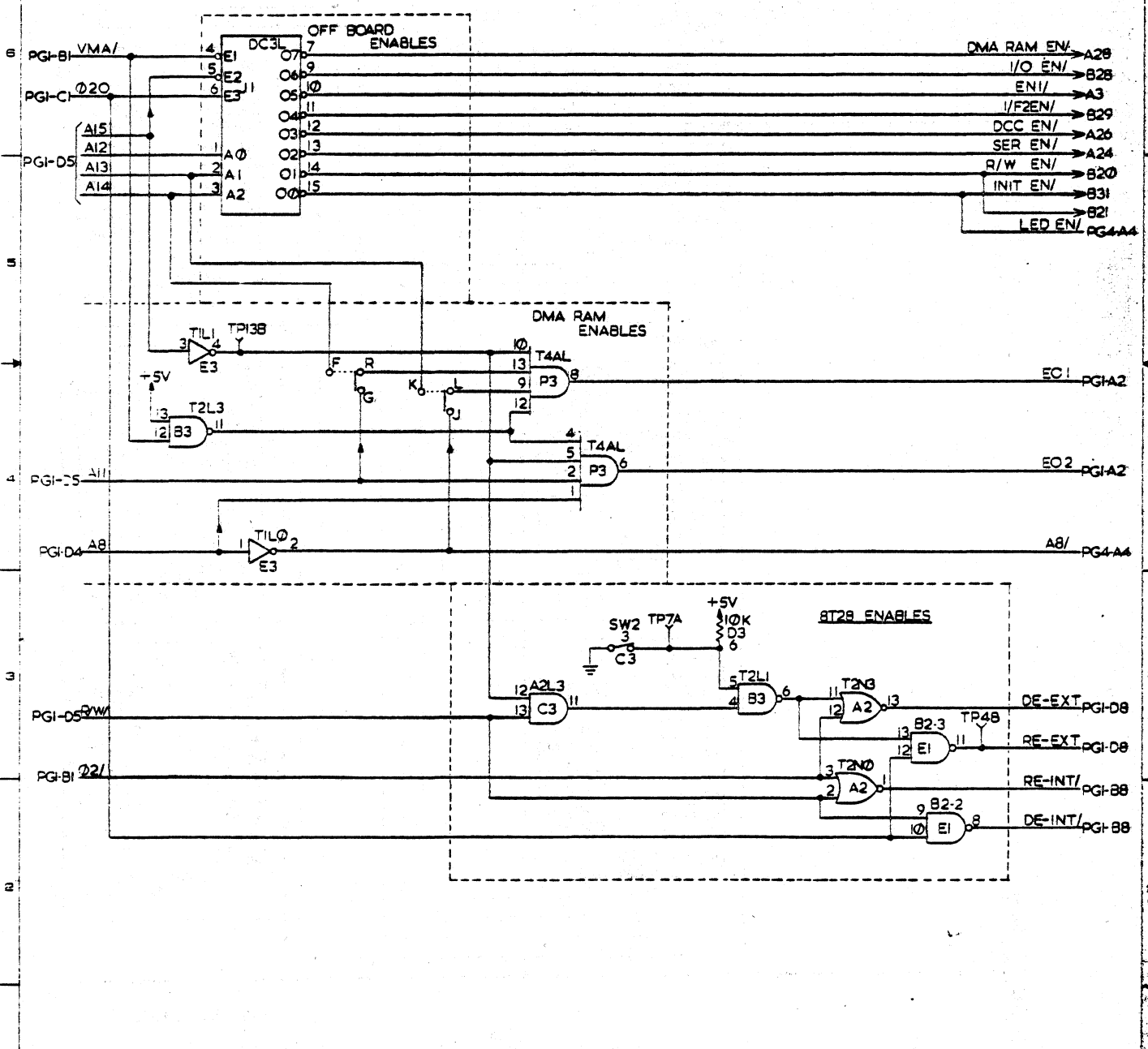
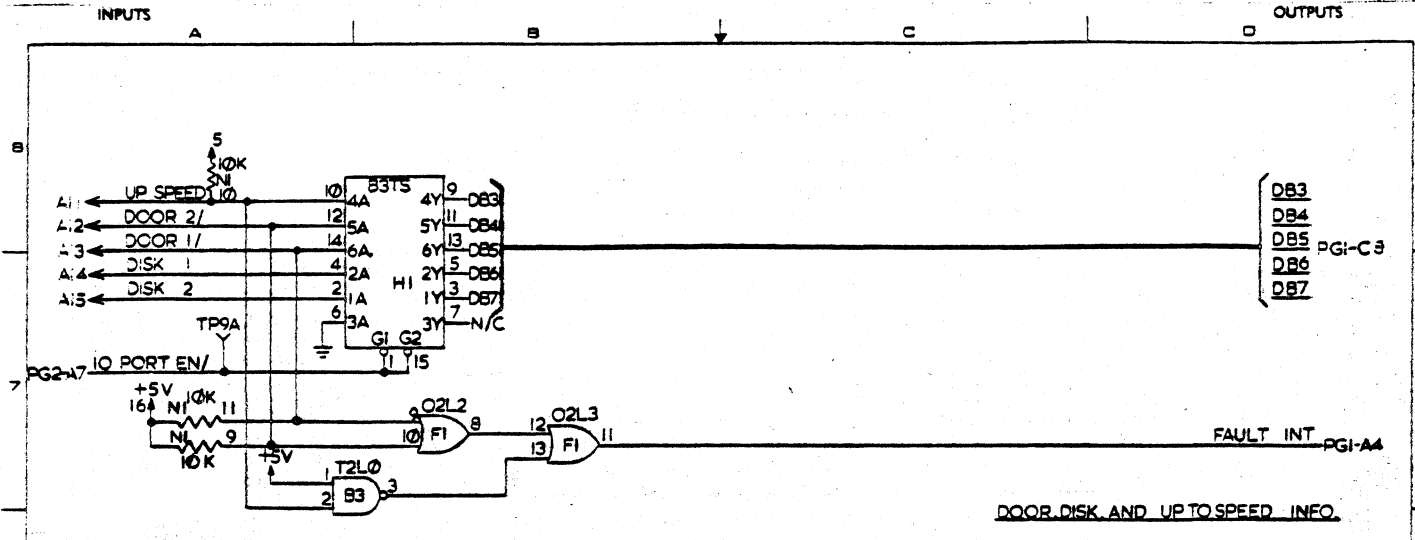


PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.



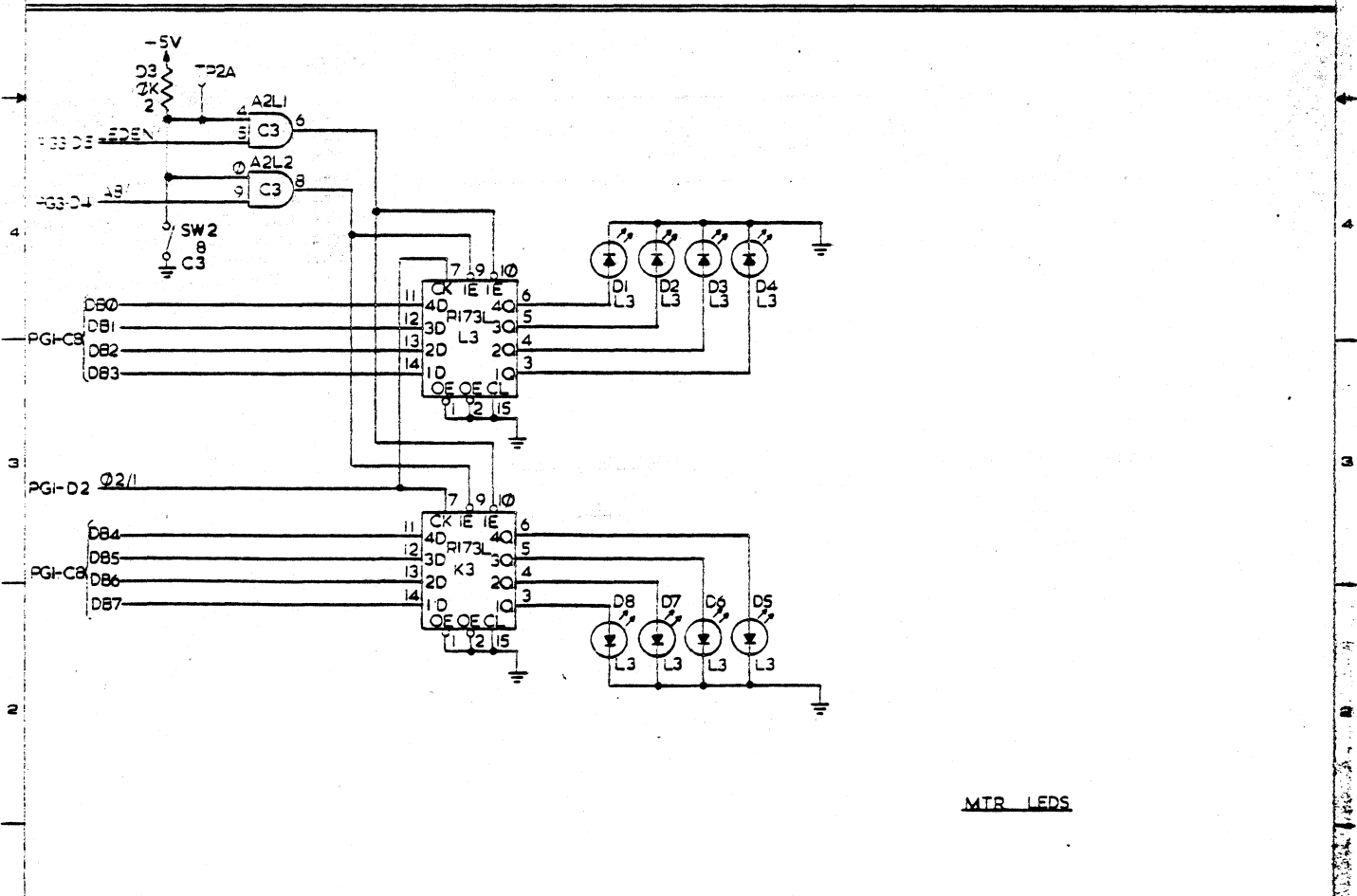
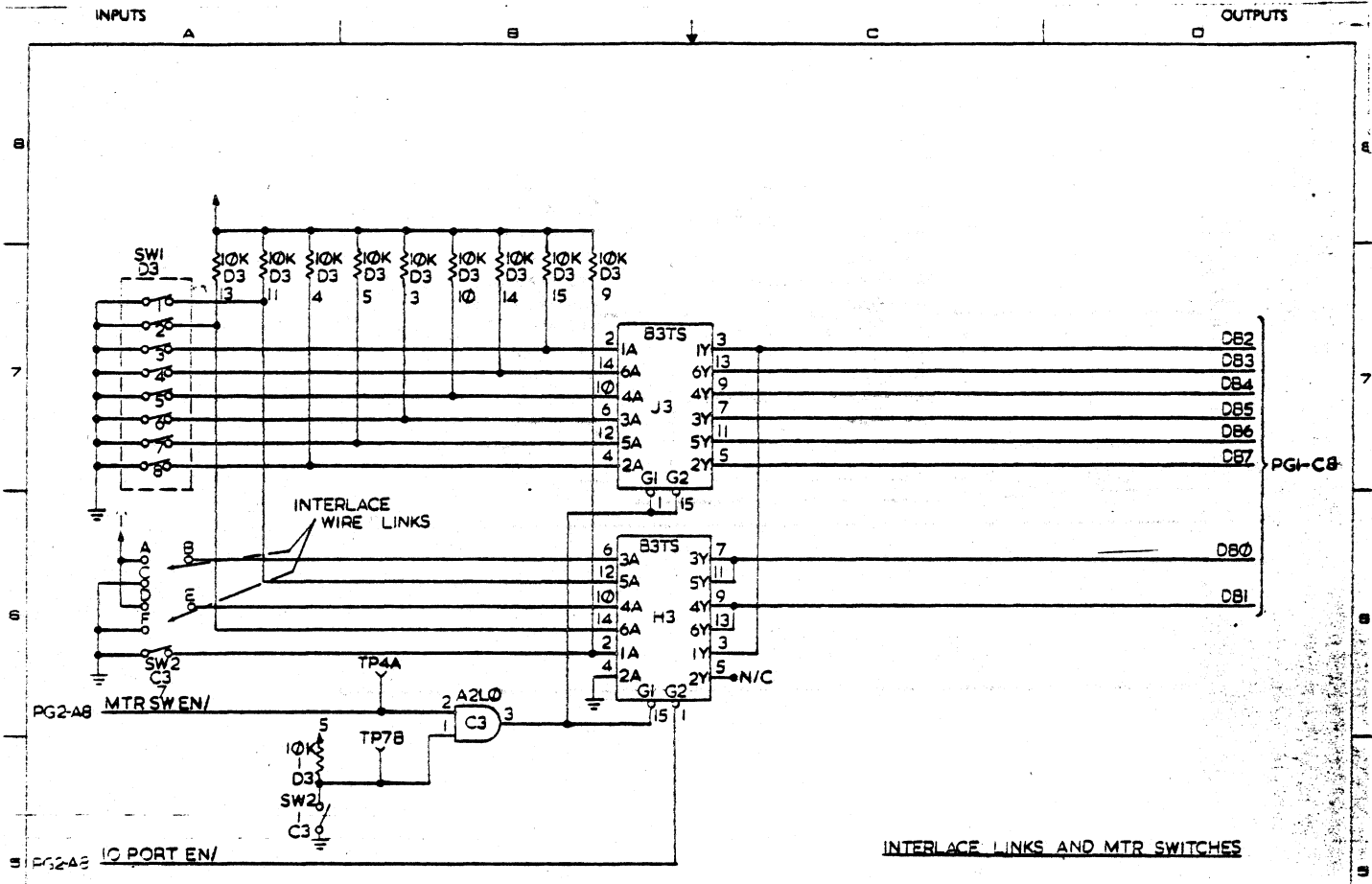
ROM WITH ENABLES

1884 3904 2 5		BURROUGHS BURROUGHS MACHINES LIMITED GLENROTHIE, SCOTLAND, U.K.		TITLE: SCHEMATIC MICROCONTROLLER DOC. TYPE: CONTROL CLASS CODE: G18 DESIGNED: J. RALLS DATE: 29/9/88		CHECKED: [Signature] DATE: 11/11/88 ENGINEER: [Signature] DATE: 11/11/88		D 1884 3904 2 of 5 E	
---------------------	--	---	--	--	--	---	--	----------------------------	--



DRAWING NO. 1884 3904 REV. 3 of 5		Burroughs BURROUGHS MACHINES LIMITED GLENROTH, SCOTLAND, U.K.		TITLE: SCHEMATIC MICROCONTROLLER			
CHECKED DATE	DESIGNED DATE	DRAWN DATE	CLASS CODE 018	CHECKED DATE	DATE 20/3/88	Dwg. No. 1884 3904	SHEET 3 of 5
APPROVED DATE 21/1/87			DRAWN J. RALLS		REV. E		

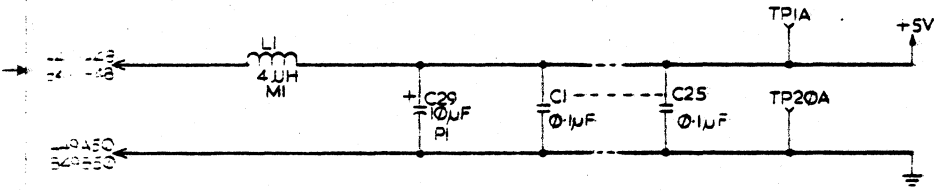
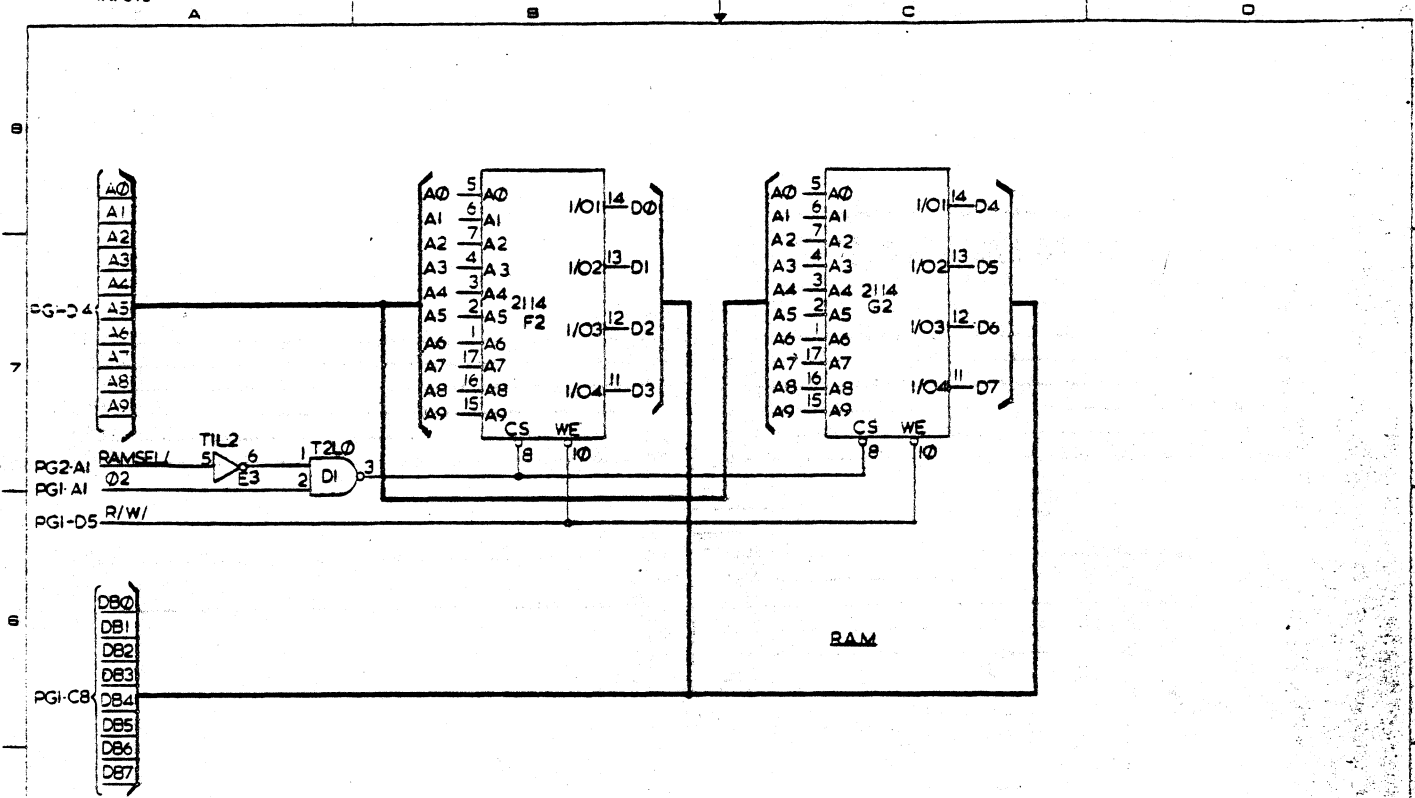
PROPRIETARY TO BURROUGHS, NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.



1884 3904 4 of 5		Burroughs BURROUGHS MACHINES LIMITED GLASGOW, SCOTLAND, U.K.		TITLE SCHEMATIC MICROCONTROLLER DOC. TYPE CLASS CODE 018 DRAWN J. RALLS DATE 30/9/68		CHECKED ENGINEER DATE 11/11/68 APPROVED DATE 11/11/68		D 1884 3904 SHEET 4 of 5 REVISED E	
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INPUTS

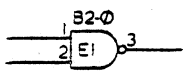
OUTPUTS



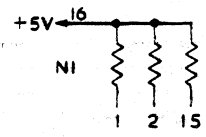
NOTES

1. ALL 10K RESISTORS IN D.I.L. PACKS
2. UNLESS OTHERWISE SPECIFIED ALL OTHER RESISTORS ARE 1/4W ±2%
3. UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHMS
4. FOR ASSEMBLY SEE E 1884-4092
5. FOR WIRE LINK INFO SEE ASSEMBLY AND 1886-1906
6. THIS SCHEMATIC APPLIES TO EPROMS WITH A PIN OUT SIMILAR TO 'TI' OR 'INTEL'

UNUSED NAND GATE



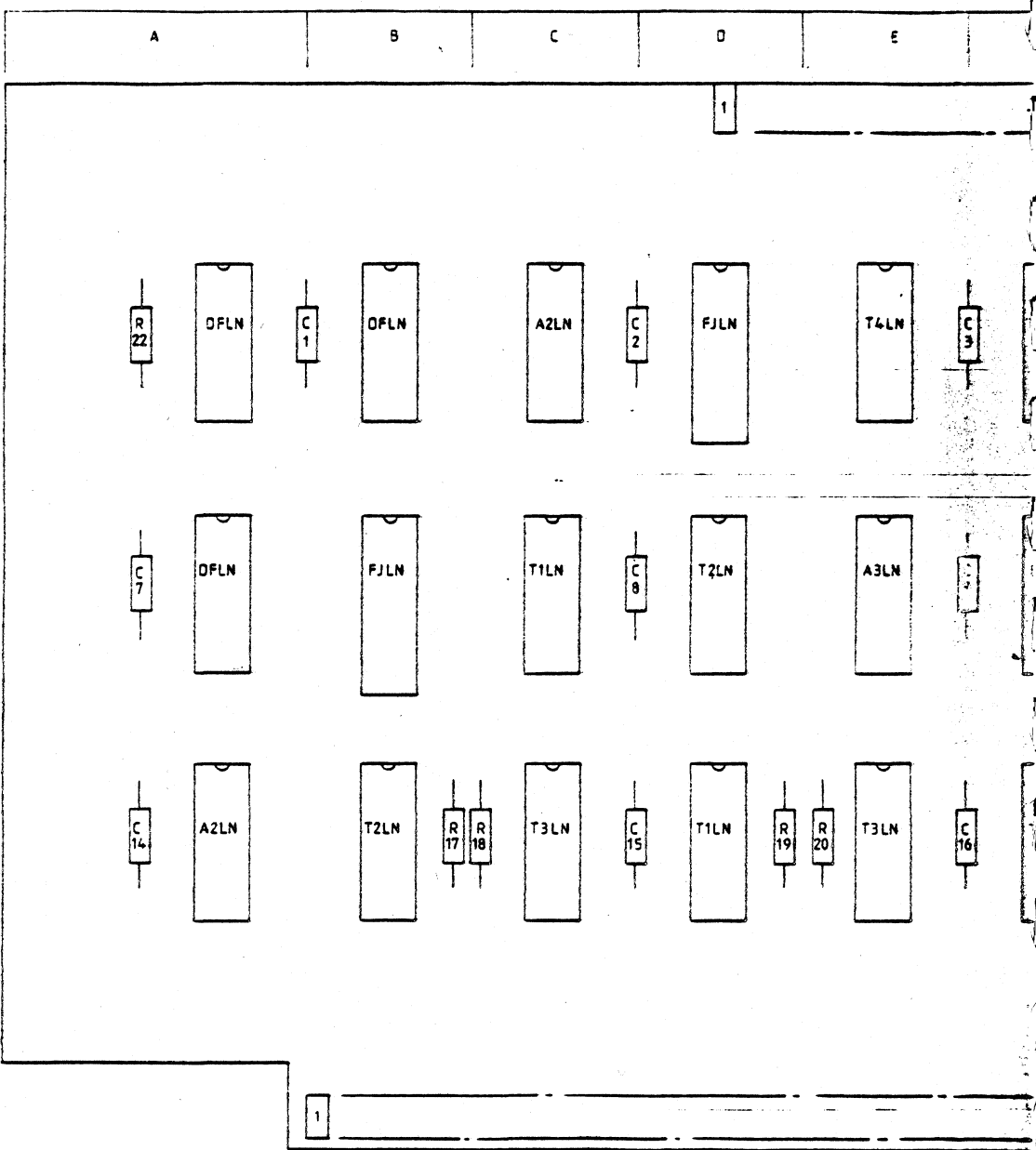
UNUSED 10K PULL-UP RESISTOR

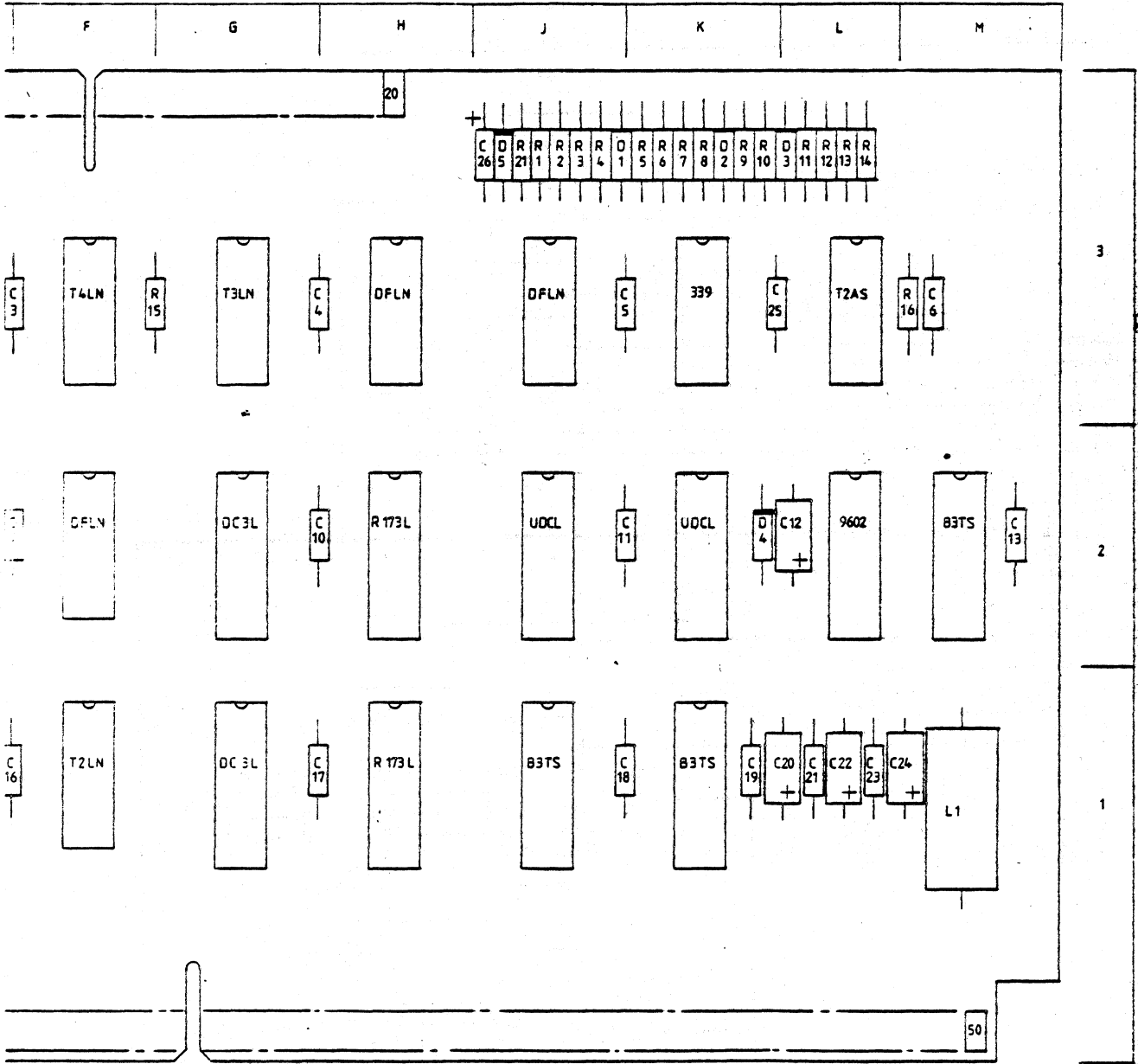


1884 3904 5 of 5	BURROUGHS BURROUGHS MACHINES LIMITED GLENROTHIE SCOTLAND, U.K.	TITLE SCHMATIC MICROCONTROLLER	DOC. TYPE DESIGN CONTROL	CHECKED DATE	DATE ENG. NO.
	CLASS CODE 018	DRAWN J. RALLS	DATE 1/18/88	APPROVED DATE	D 1884 3904 SHT. 5 of 5 REV. E

DO NOT SCALE

REVISIONS			
A	FR	NM	12/17/77
INITIAL RELEASE			
B	FR	NM	12/17/77
H	FR	022	ADDED
	FR	026	///
	FR	025	///
	FR	025	///
	FR	025	///
FR 01 027 05 026 AND 003 REMOVED			
FR 03 POLARITY ADDED			
G	FR	L3	TCAS WAS A2LN

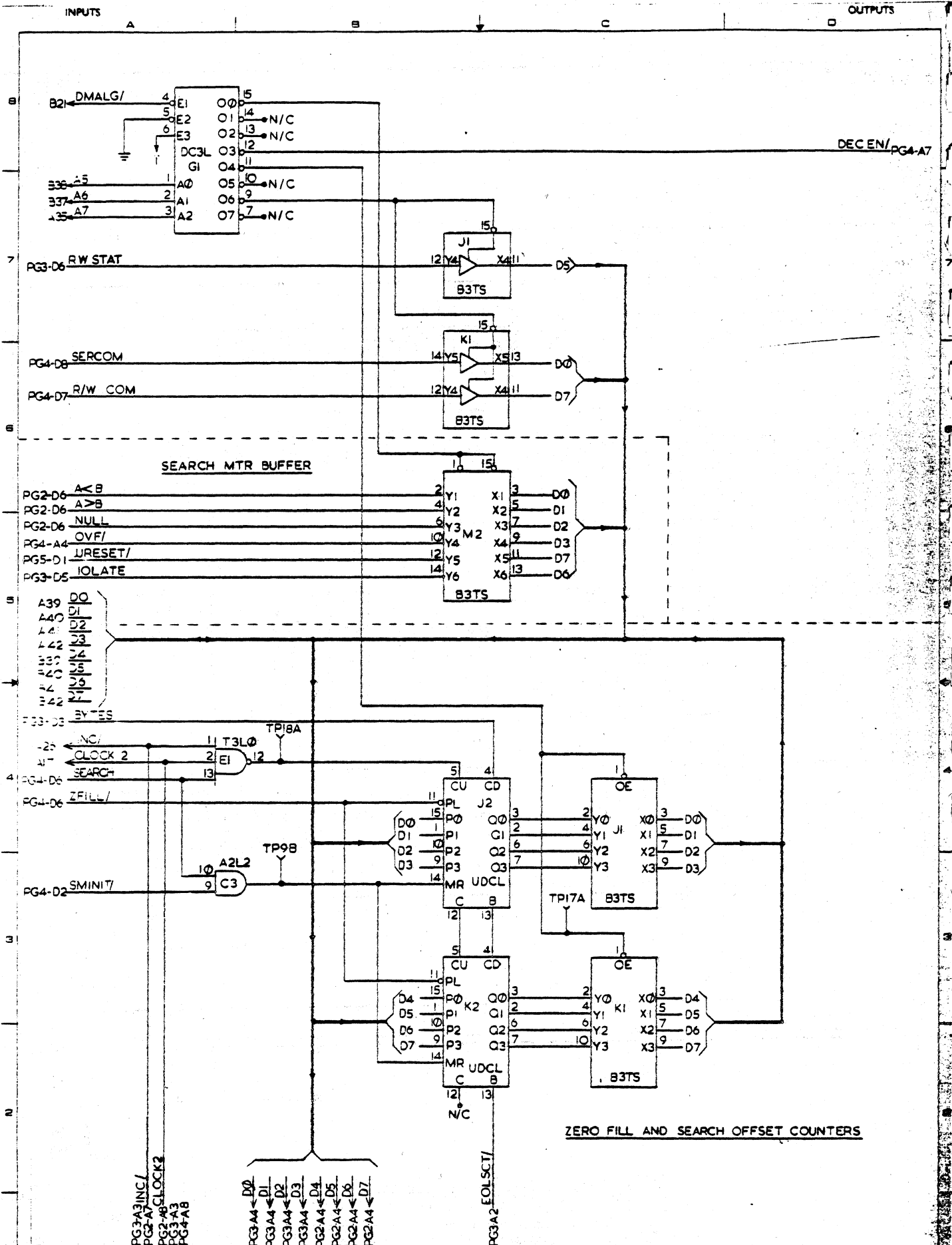




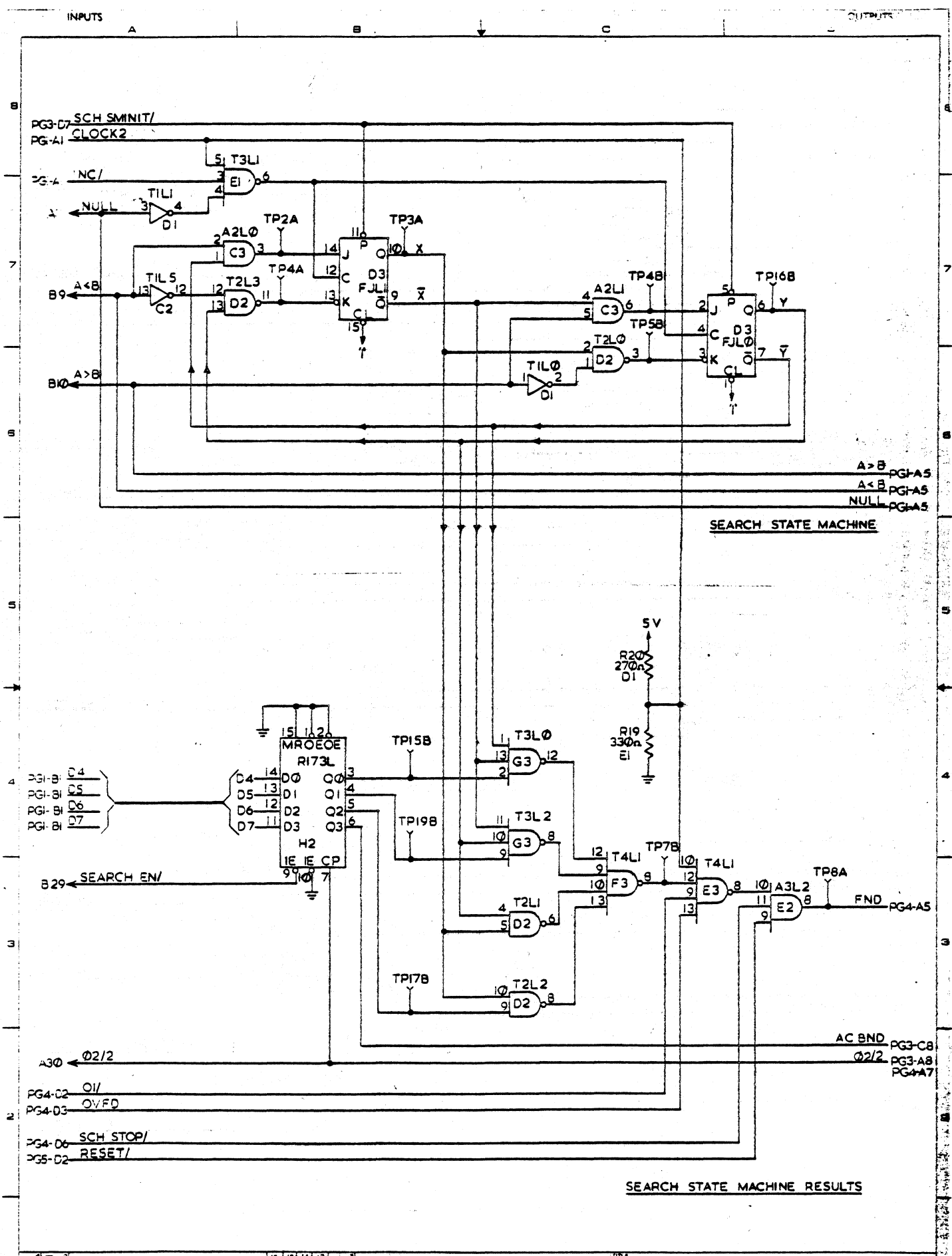
FOR SCHEMATIC SEE 1887 0220

J4

GEN. QUAL. SPEC 183 5543 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED																																																								
<table border="0"> <tr> <td>HOLE DIAMETER TOLERANCES</td> <td>TOLERANCES UNLESS OTHERWISE SPECIFIED</td> <td>ANGLES :</td> <td>N. MURRAY</td> <td>DATE</td> </tr> <tr> <td>0.100 - 1.00 ± 0.00 - 0.01</td> <td>XXX</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.00 - 2.50 ± 0.00 - 0.01</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.50 - 5.00 ± 0.00 - 0.01</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.00 - 7.50 ± 0.00 - 0.02</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7.50 - 1.00 ± 0.00 - 0.02</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.00 - 2.00 ± 0.00 - 0.02</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	HOLE DIAMETER TOLERANCES	TOLERANCES UNLESS OTHERWISE SPECIFIED	ANGLES :	N. MURRAY	DATE	0.100 - 1.00 ± 0.00 - 0.01	XXX				1.00 - 2.50 ± 0.00 - 0.01					2.50 - 5.00 ± 0.00 - 0.01					5.00 - 7.50 ± 0.00 - 0.02					7.50 - 1.00 ± 0.00 - 0.02					1.00 - 2.00 ± 0.00 - 0.02					<table border="0"> <tr> <td>MATERIAL</td> <td>CHECKED</td> <td>DATE</td> </tr> <tr> <td>HEAT TREATMENT</td> <td>BY</td> <td></td> </tr> <tr> <td>SURFACE TREATMENT</td> <td>SIGNATURE</td> <td>DATE</td> </tr> </table>	MATERIAL	CHECKED	DATE	HEAT TREATMENT	BY		SURFACE TREATMENT	SIGNATURE	DATE	<table border="0"> <tr> <td colspan="2" style="text-align: center;">Burroughs</td> </tr> <tr> <td colspan="2" style="text-align: center;">BURROUGHS MACHINES LTD. GLENROTHES SCOTLAND</td> </tr> <tr> <td colspan="2" style="text-align: center;">TITLE ASSEMBLY SEARCH BOARD</td> </tr> </table>	Burroughs		BURROUGHS MACHINES LTD. GLENROTHES SCOTLAND		TITLE ASSEMBLY SEARCH BOARD		<table border="0"> <tr> <td>SCALE</td> <td>SHEET 1</td> <td>DES. NO. E-1887 O188</td> </tr> </table>	SCALE	SHEET 1	DES. NO. E-1887 O188
HOLE DIAMETER TOLERANCES	TOLERANCES UNLESS OTHERWISE SPECIFIED	ANGLES :	N. MURRAY	DATE																																																				
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1.00 - 2.50 ± 0.00 - 0.01																																																								
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SCALE	SHEET 1	DES. NO. E-1887 O188																																																						
<small>UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF. DIMENSIONS IN PARENTHESES ARE FOR MANUFACTURING PURPOSES EXCEPT ON DIMENSIONS WHICH ARE OTHERWISE SPECIFIED.</small>																																																								



Burroughs BURROUGHS BUSINESS LIMITED GLASGOW, SCOTLAND, U.K.		SCHEMATIC SEARCH BOARD	
1887 0220 1 5	CLASS CODE 018	DESIGN CONTROL J. RALLS	CHECKED DATE DATE DATE DATE
PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR REPRODUCTION PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.		DATE 18/9/80	D 1887 0220 1 0 6



SEARCH STATE MACHINE

SEARCH STATE MACHINE RESULTS

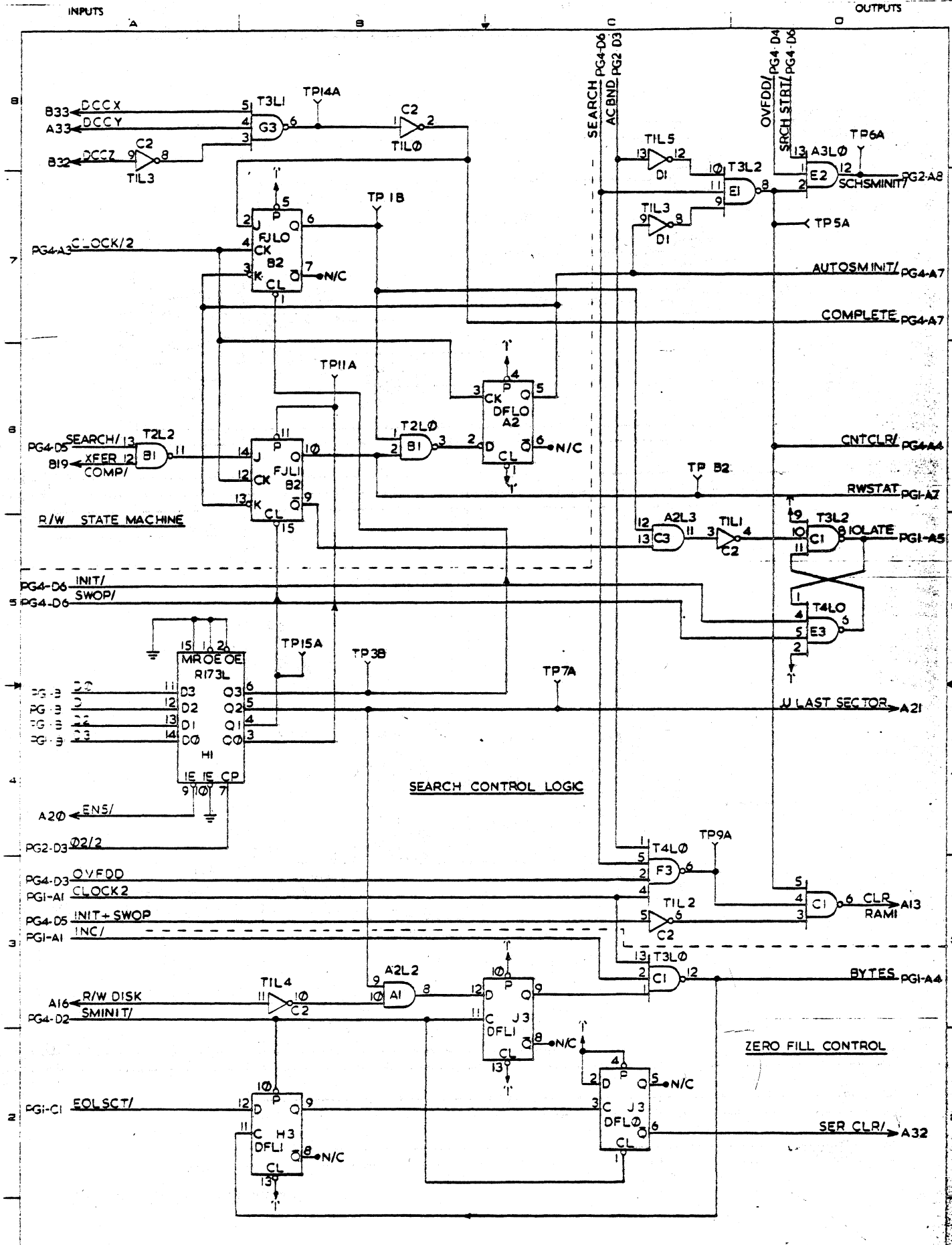
1987 0220
2 of 6

REV	DATE	BY	CHKD
1	1/8/80	A	
2			
3			
4			
5			
6			

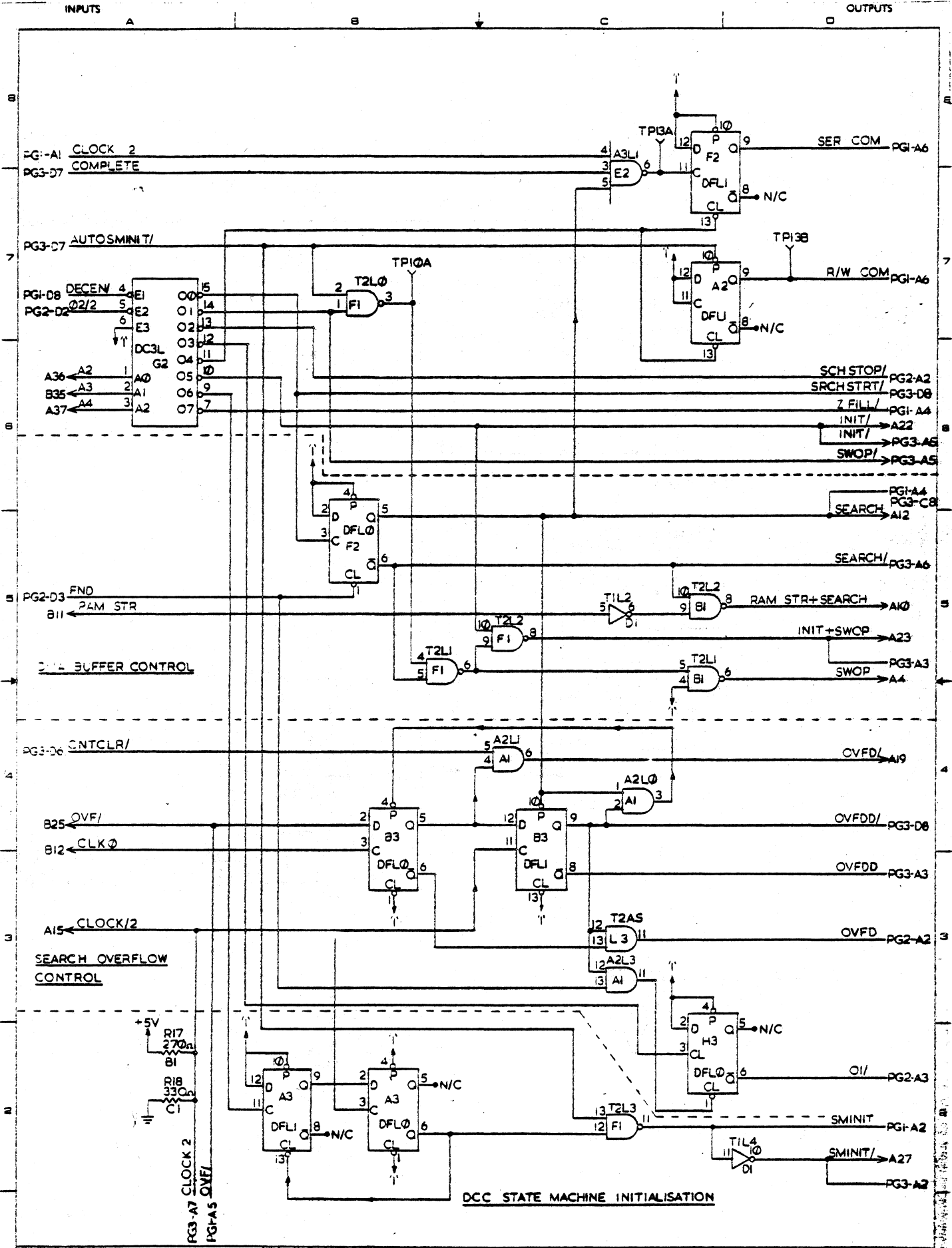
Burroughs
BURROUGHS MACHINE LIMITED
GLASGOW, SCOTLAND, U.K.

PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.

TITLE: SCHEMATIC SEARCH BOARD			
DOC. TYPE	DESIGN CONTROL	CHECKED	DATE
CLASS CODE	018	DESIGNED	D 1887 0220
DRAWN	DATE	APPROVED	DATE
A ADAMS	1/8/80		2 of 6



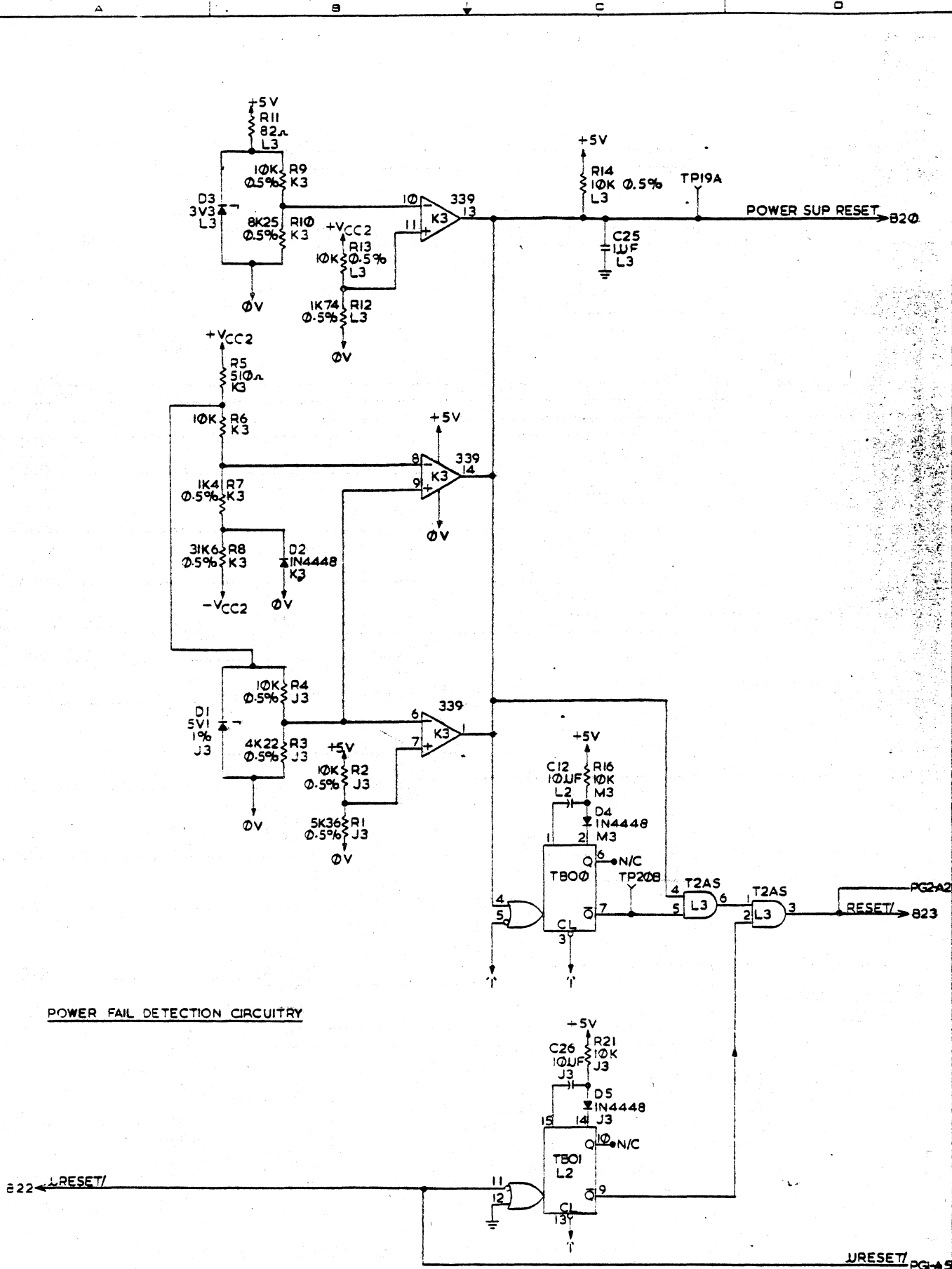
1 1987 0220 3 of 6	Burroughs <small>BURROUGHS MACHINES LIMITED 21, NEWBETH, SCOTLAND, U.K.</small>		SCHEMATIC SEARCH BOARD			
	DESIGNED CONTROL	CHECKED 1/1/81	DATE 3/1/81	DRAWN A ADAMS	DATE 3/1/80	SH. 3 of 6
	CLASS CODE 018	ENGINEER [Signature]	DATE 1/1/81	APPROVED [Signature]	DATE 1/1/81	DWG. NO. D 1987 0220
	<small>PROPRIETARY TO BURROUGHS, NOT TO BE REPRODUCED NOR USED FOR MARKETING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.</small>					



1887 0220 A 6		Burroughs <small>BURROUGHS BUSINESS LIMITED GLENROTHS, SCOTLAND, U.K.</small>				TITLE SCHEMATIC SEARCH BOARD			
DOC TYPE CLASS CODE DESIGNED BY DATE CHKD BY DATE APPROVED BY DATE	018 J RALLS 12/9/80	DESIGNED BY DATE APPROVED BY DATE	CHECKED BY DATE APPROVED BY DATE	DATE APPROVED BY DATE	DWG. NO. D 1887 0220 SHEET 4 OF 6				

INPUTS

OUTPUTS



POWER FAIL DETECTION CIRCUITRY

822 ← RESET/

URESET/ PG-A5

1
 1887 0220
 5 of 6

REV	DATE	BY	CHKD	APP'D
1	1/11/80	AD	AD	AD
2	1/11/80	AD	AD	AD
3	1/11/80	AD	AD	AD
4	1/11/80	AD	AD	AD
5	1/11/80	AD	AD	AD



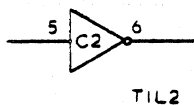
TITLE				DATE			
DOC TYPE	JERON CONTROL	CHECKED	DATE	DRG. NO.	DATE	REV	BY
SCHEMATIC SEARCH BOARD	018	AD	1/11/80	D 1887 0220	1/11/80	5	AD
CLASS CODE	018	APPROVED	1/11/80				
DESIGNER	AD	DATE	1/11/80				
DATE	1/11/80	APPROVED	1/11/80				
DATE	1/11/80	DATE	1/11/80				
DATE	1/11/80	DATE	1/11/80				

PROPRIETARY TO BURROUGHS NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT BY BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.

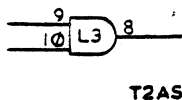
INPUTS

OUTPUTS

UNUSED INVERTORS



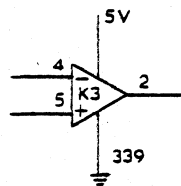
UNUSED AND GATES



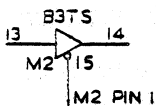
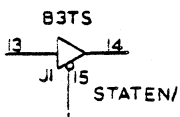
NOTES

1. FOR ASSEMBLY SEE E 1884 3771
2. UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHMS
3. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4W ±2%

UNUSED COMPARATOR

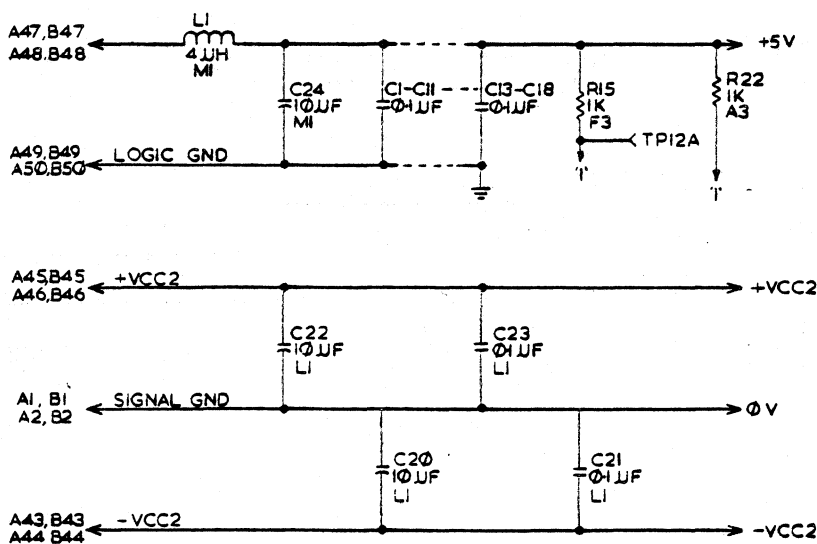


UNUSED BUFFERS(TS.)



UNCOMMITTED ADDRESS DECODES

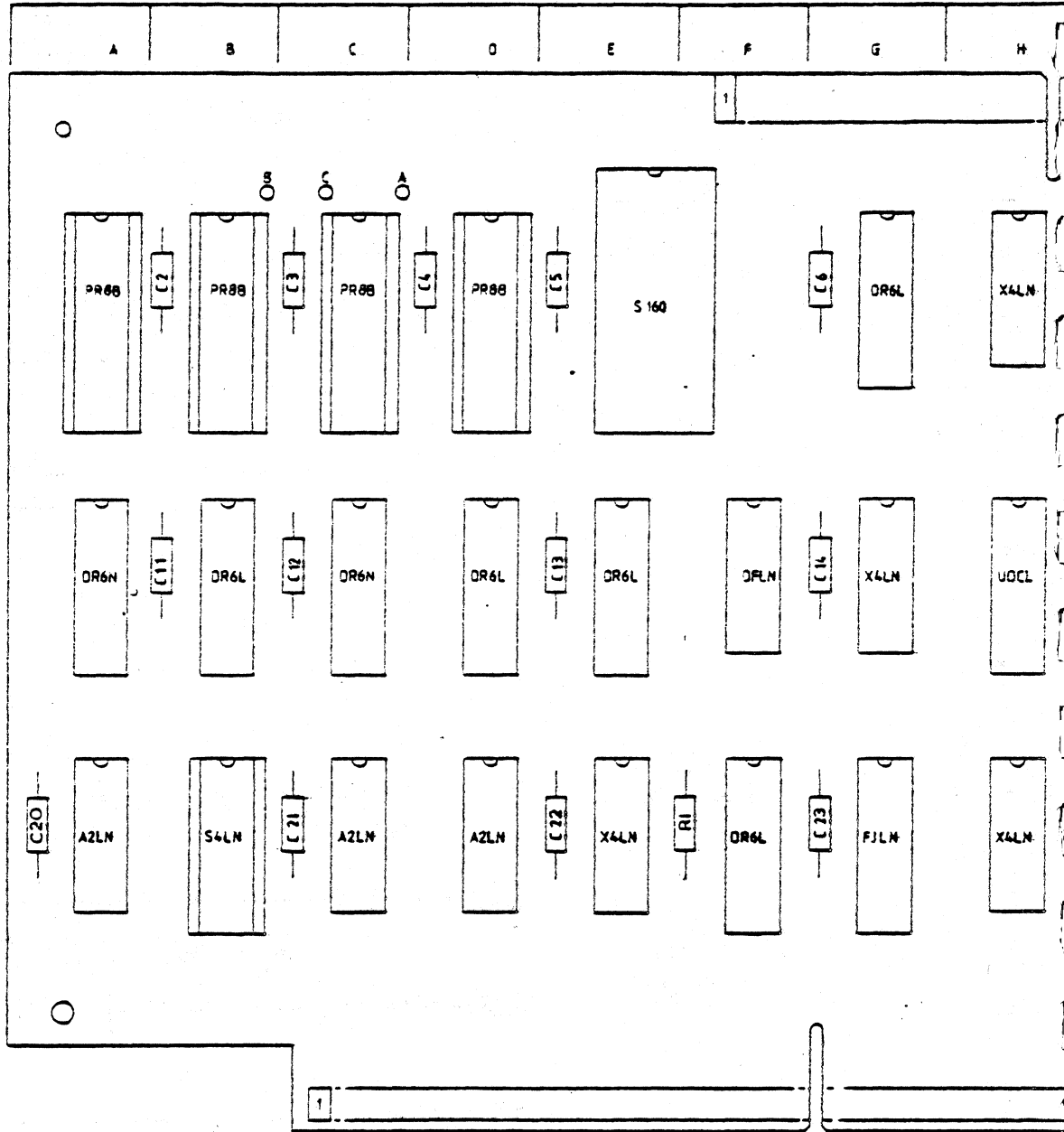
CHIPS GI PINS 7, 10, 13, 14



1887 0220		REV. 6		REV. 6		REV. 6		REV. 6		REV. 6		REV. 6		REV. 6			
				SCHMATIC SEARCH BOARD				DOC. TYPE 018		DESIGNED J. RALLS		CHECKED 		DATE 12/1/50		Dwg. No. D 1887 0220	
PROPRIETARY TO BURROUGHS, NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.				DRAWN J. RALLS				DATE 12/9/50		APPROVED 		DATE 12/1/50		REV. 6		REV. E	

DO NOT SCALE

INITIAL RELEASE



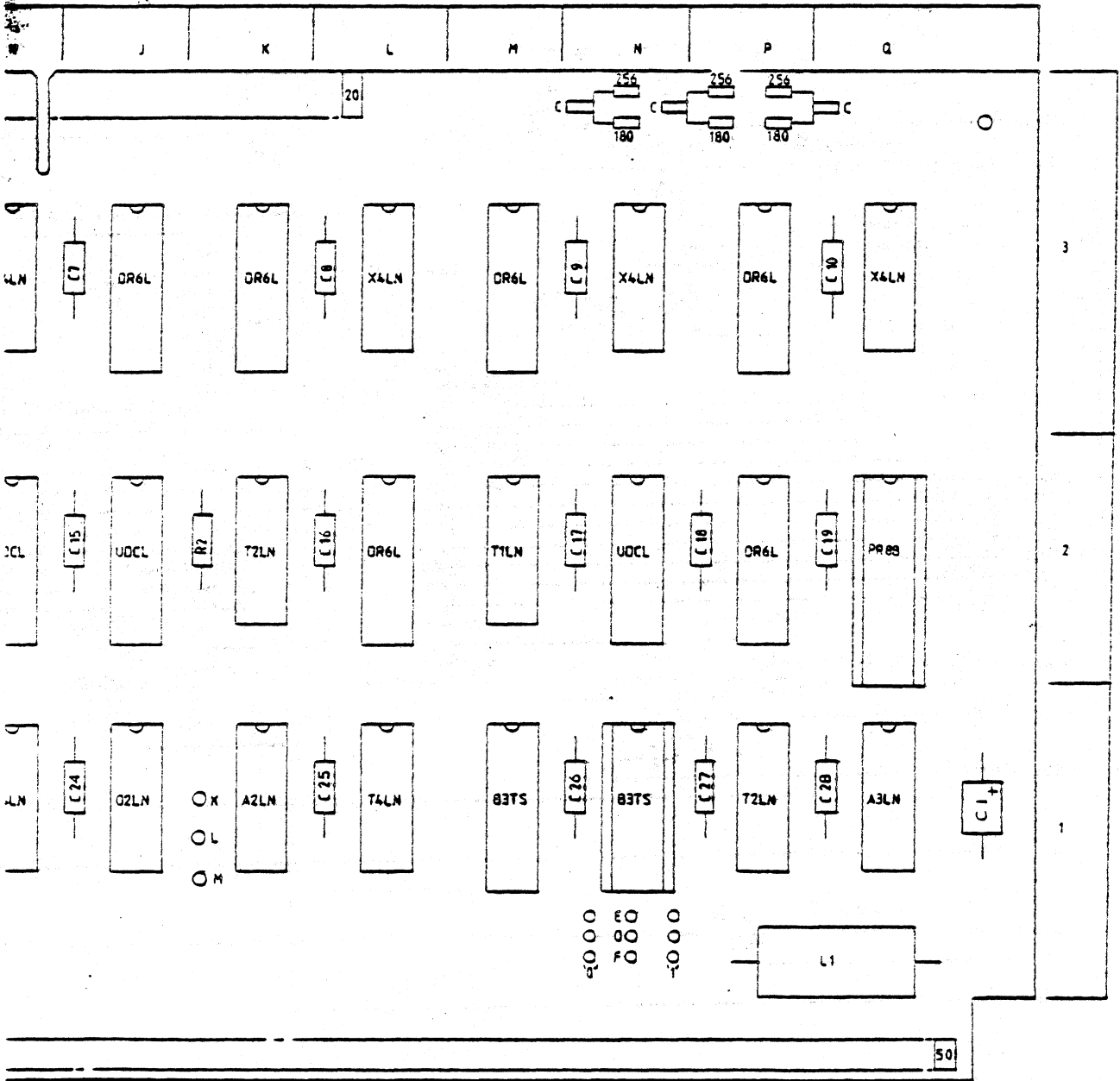
NOTES ① FOR 180 BYTE SECTORS

- Ⓐ ENSURE ONLY PADS MARKED '180' ARE LINKED TO COMMON TERMINAL
- Ⓑ LINK BETWEEN D AND '0', CUT LINK BETWEEN D AND '1'
- Ⓒ LINK BETWEEN C AND A, NO LINK BETWEEN C AND B

② FOR 256 BYTE SECTORS

- Ⓐ ENSURE ONLY PADS MARKED '256' ARE LINKED TO COMMON TERMINAL
- Ⓑ LINK BETWEEN D AND '1', CUT LINK BETWEEN D AND '0'
- Ⓒ LINK BETWEEN C AND B, NO LINK BETWEEN C AND A

- ③ FOR TSG UNITS LINK X AND L. FOR ALL OTHERS LINK X AND M



TERMINALS (C)

FOR SCHEMATIC SEE 1886 0014

J6

TERMINALS (C)

GEN	QUAL	SPEC	REV	DATE	TITLE	BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED
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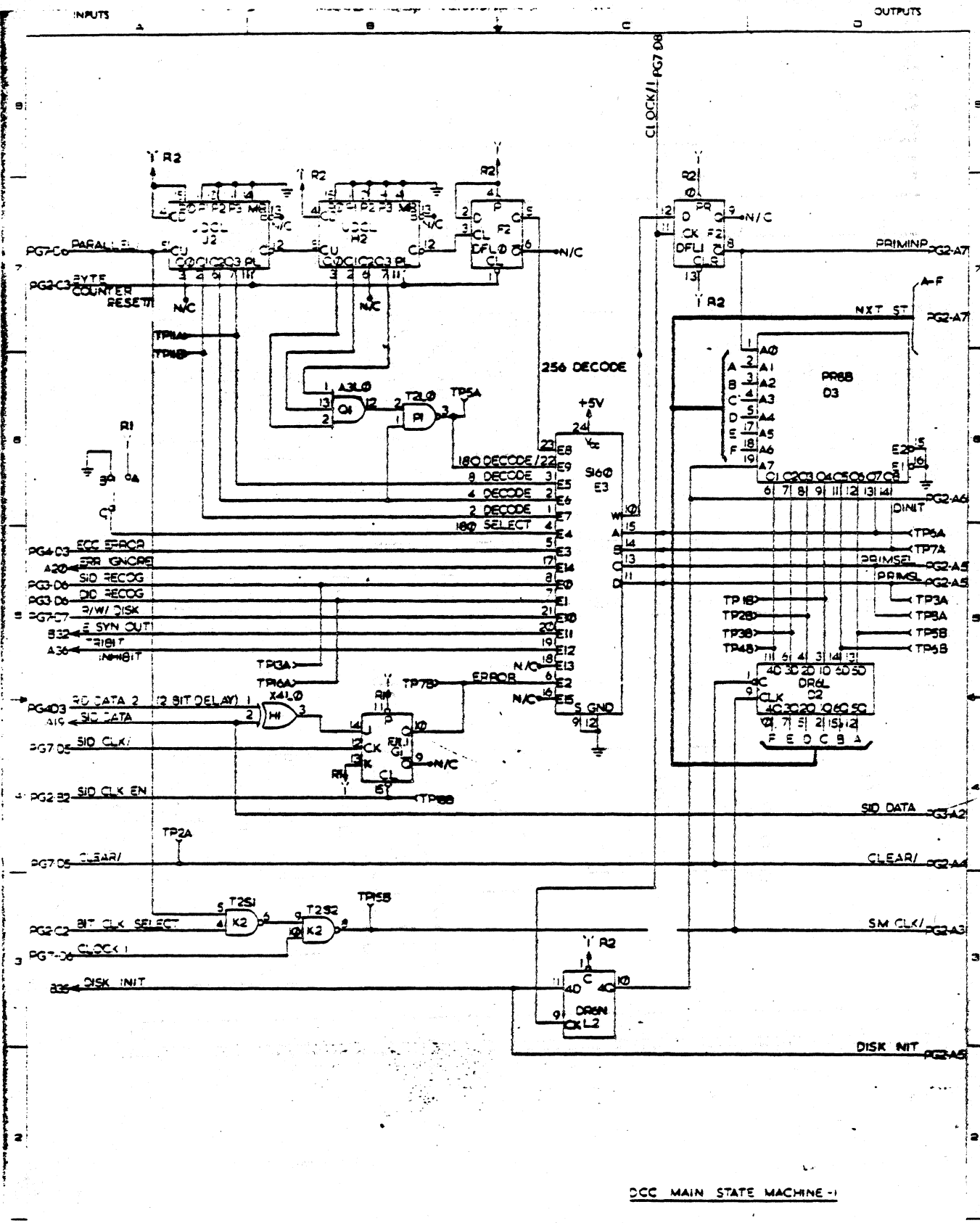
Burroughs

SURREY MACHINE LTD GLENROTHES SCOTLAND UK

DATA CHANNEL CONT ASSY 211

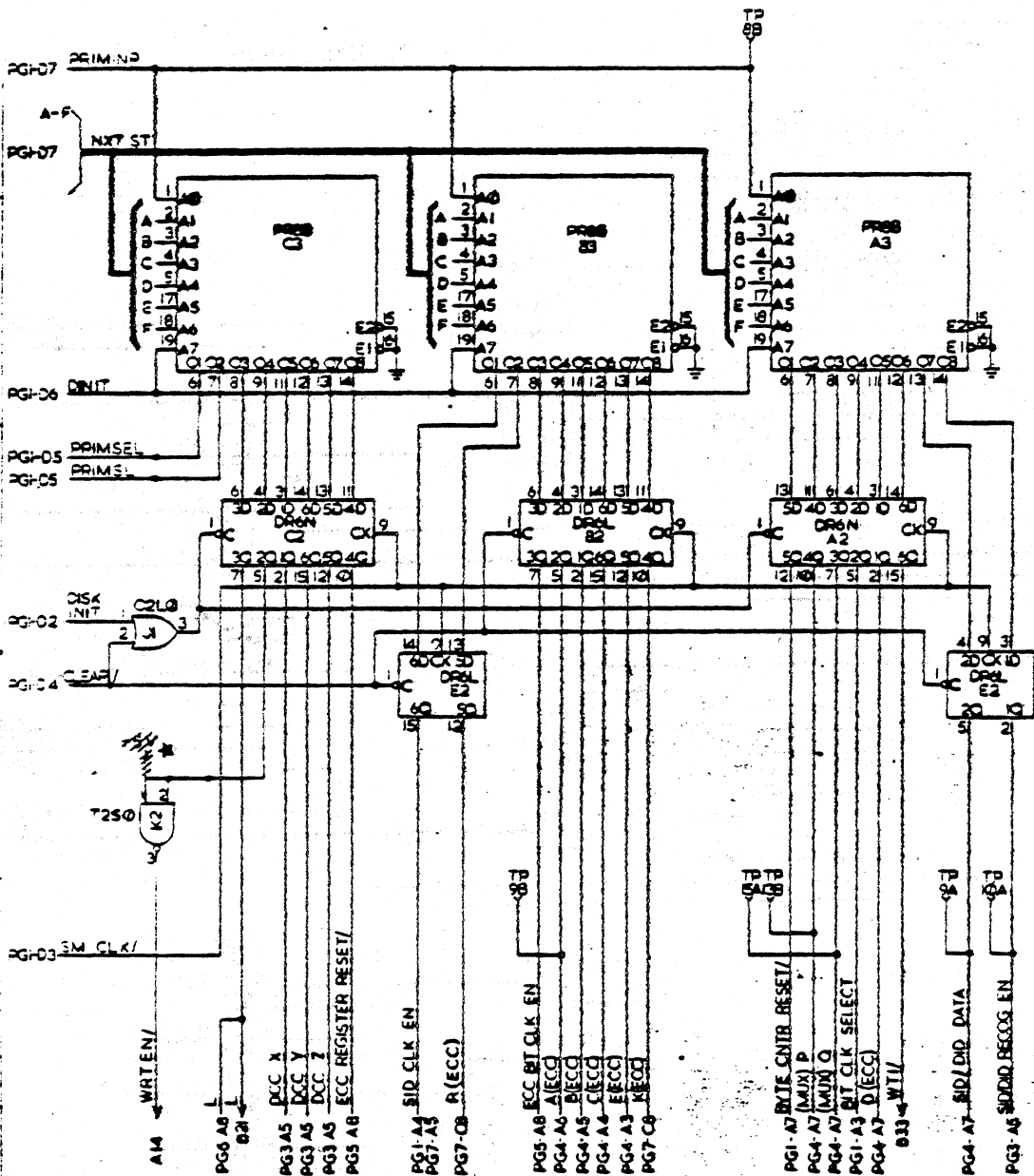
2-2945

1888 4304



OCC MAIN STATE MACHINE - I

		SCHEMATIC OCC	
1987 0014 7	018 J. RALLS	0 1987 0014 7	7



1. ALL WIRING CHANGES
 2. PRODUCT DOCUMENTS
 3. SEE DRAWING

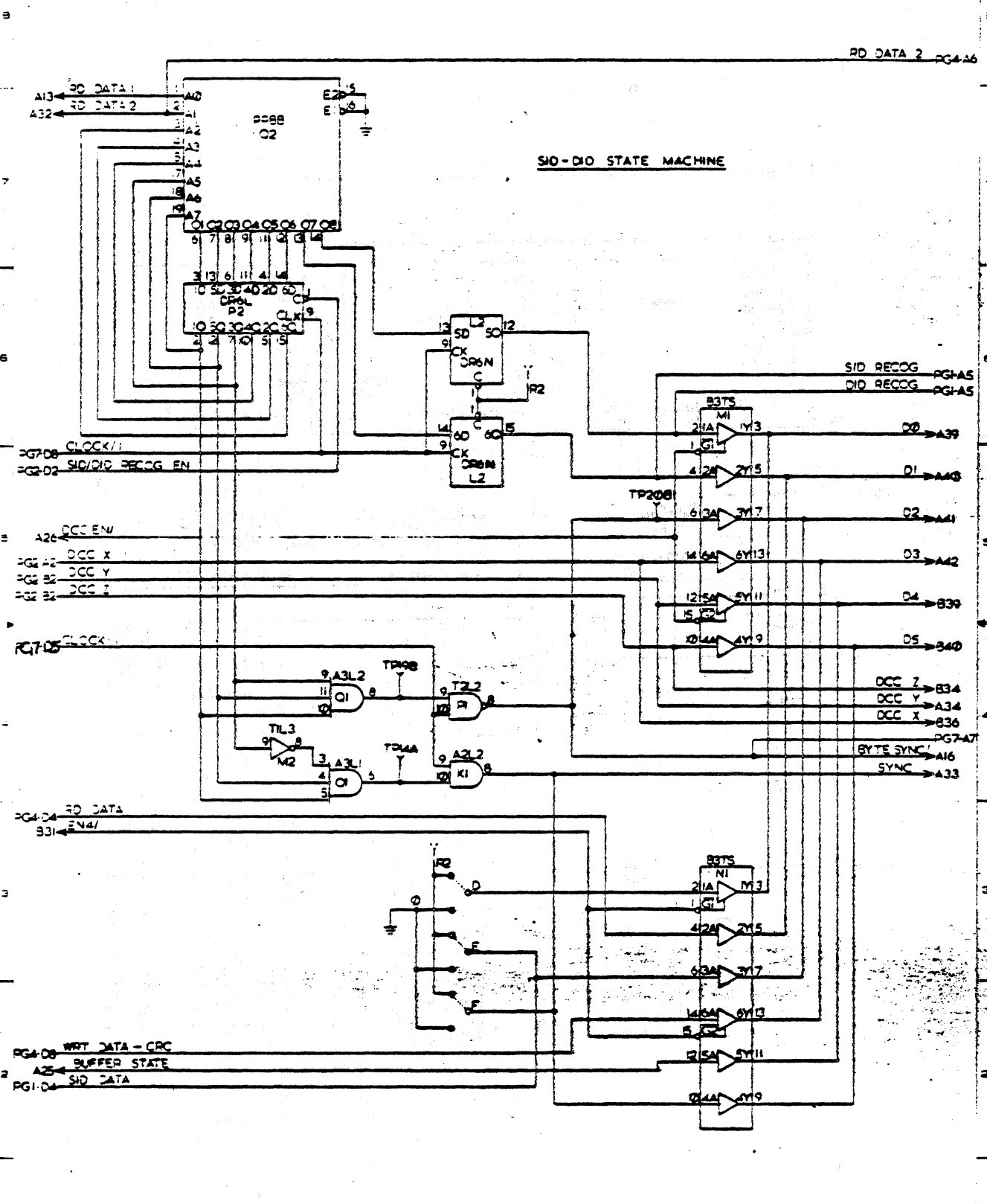
EMERGENCY REPAIR INSTRUCTIONS
 E.C.A. GROUP

DCC MAIN STATE MACHINE-2

1-100-1000 1-100-1000 1-100-1000	1-100-1000 1-100-1000 1-100-1000	1-100-1000 1-100-1000 1-100-1000	SCHEMATIC DCC	
			018	D 1887 0014

INPUTS

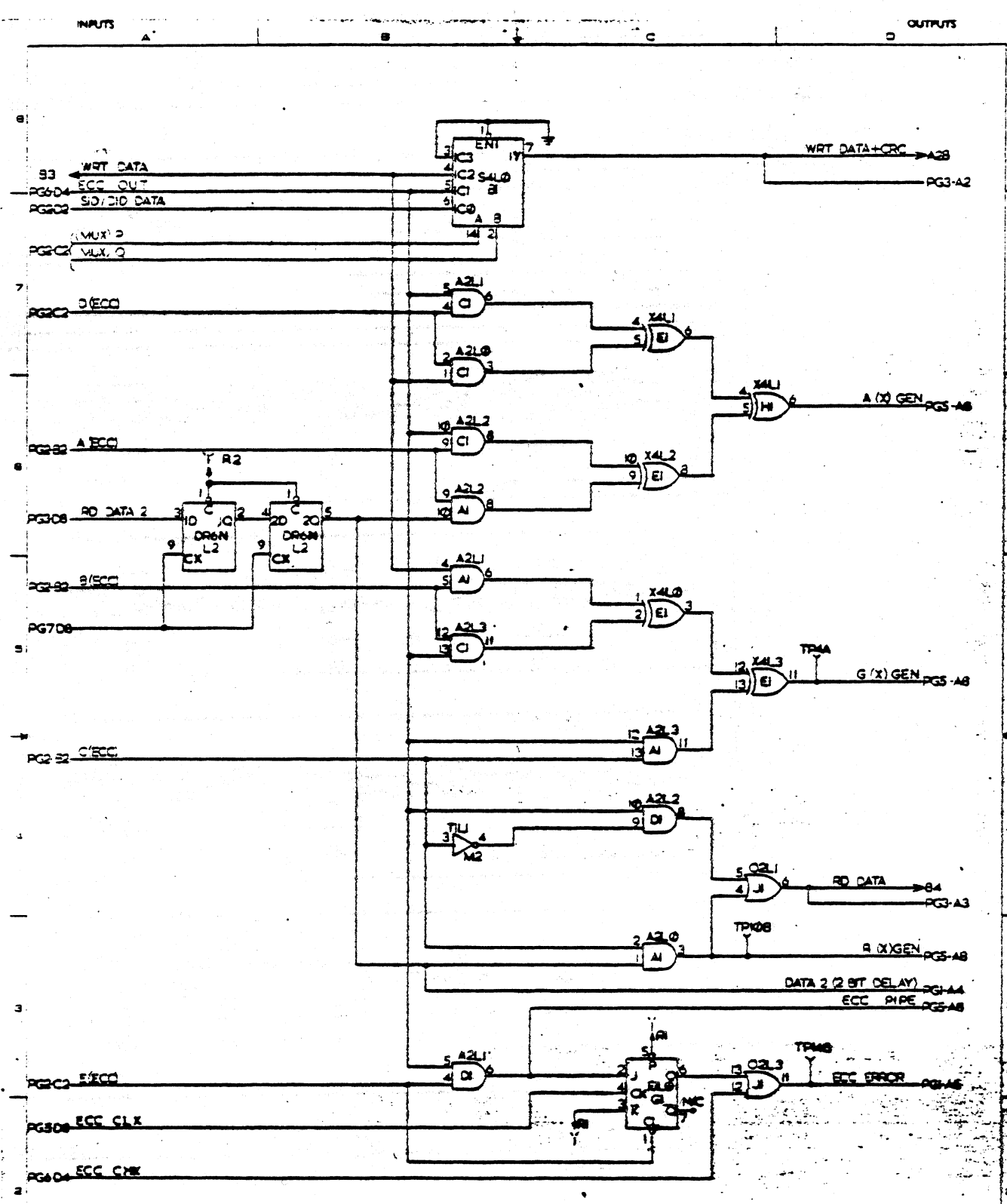
OUTPUTS



1587 0014	REV	DATE	BY	CHKD	APP'D
3	1				
7					

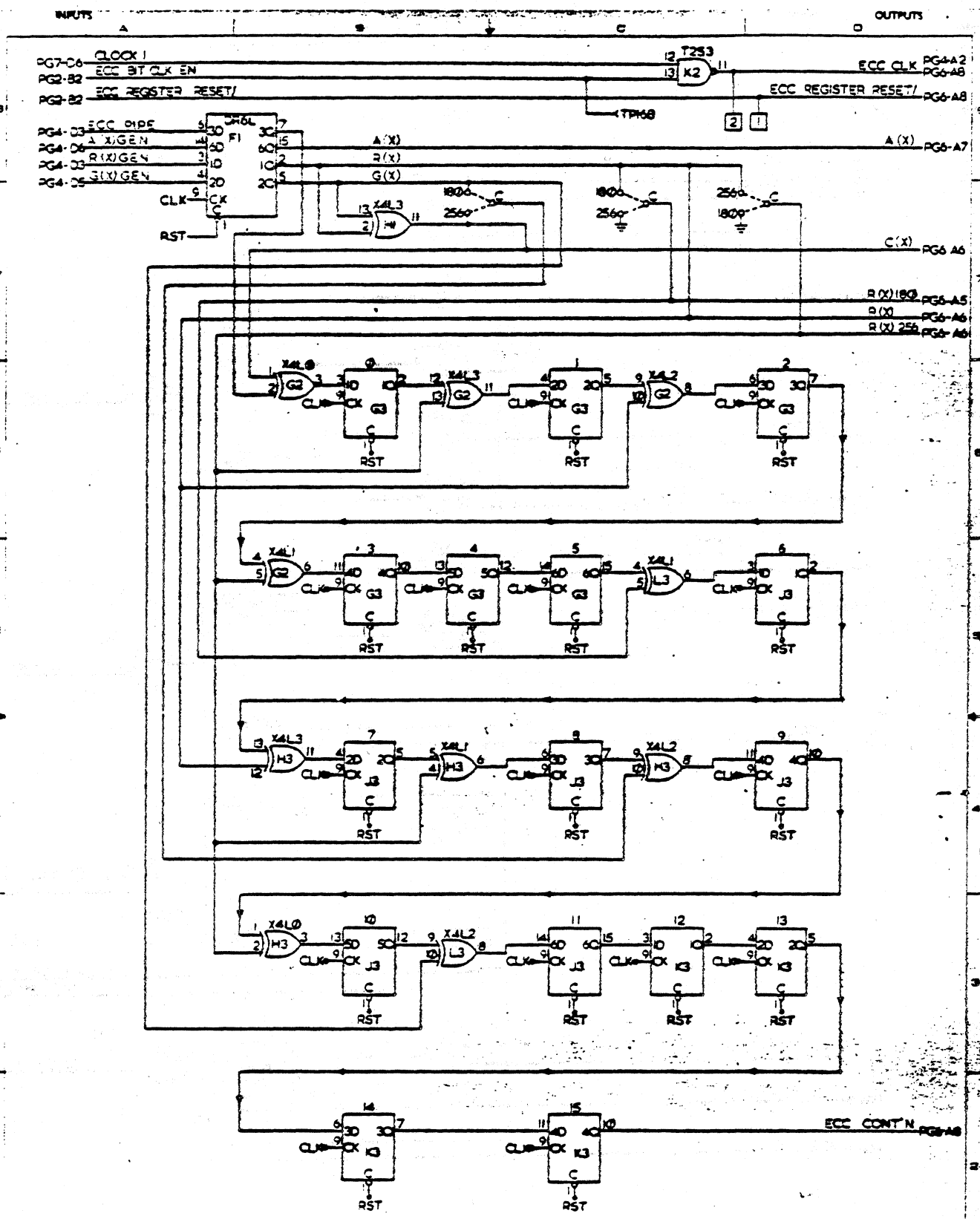
Burr-Brown
ANALOG DEVICES
CORPORATION

SCHEMATIC DCC	
DATE	018
DESIGNED BY	J. FALLS
CHECKED BY	
APPROVED BY	
DATE	0 1987 0014
REV	3 - 7



ECC FEEDBACK GENERATION

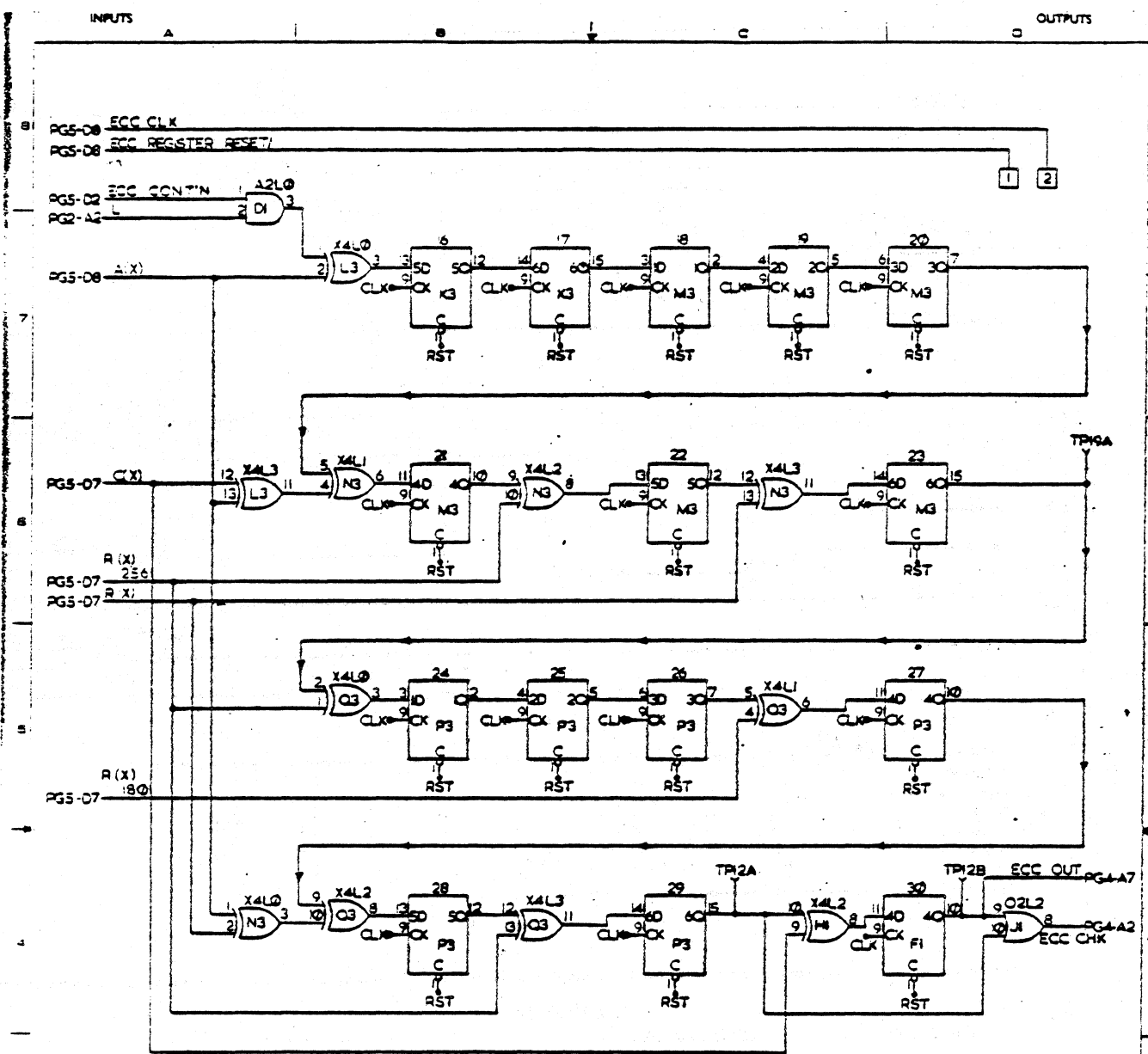
1887 0014 4 - 7		SCHEMATIC DCC	
		018	D 1887 0014
		J. RALLS	4 - 7



ECC I

- NOTE 1 - ALL POINTS MARKED 'RST' CONNECT TO []
- NOTE 2 - ALL POINTS MARKED 'CLK' CONNECT TO []
- NOTE 3 - ALL D-TYPES LABELLED 0-5 ARE D0L

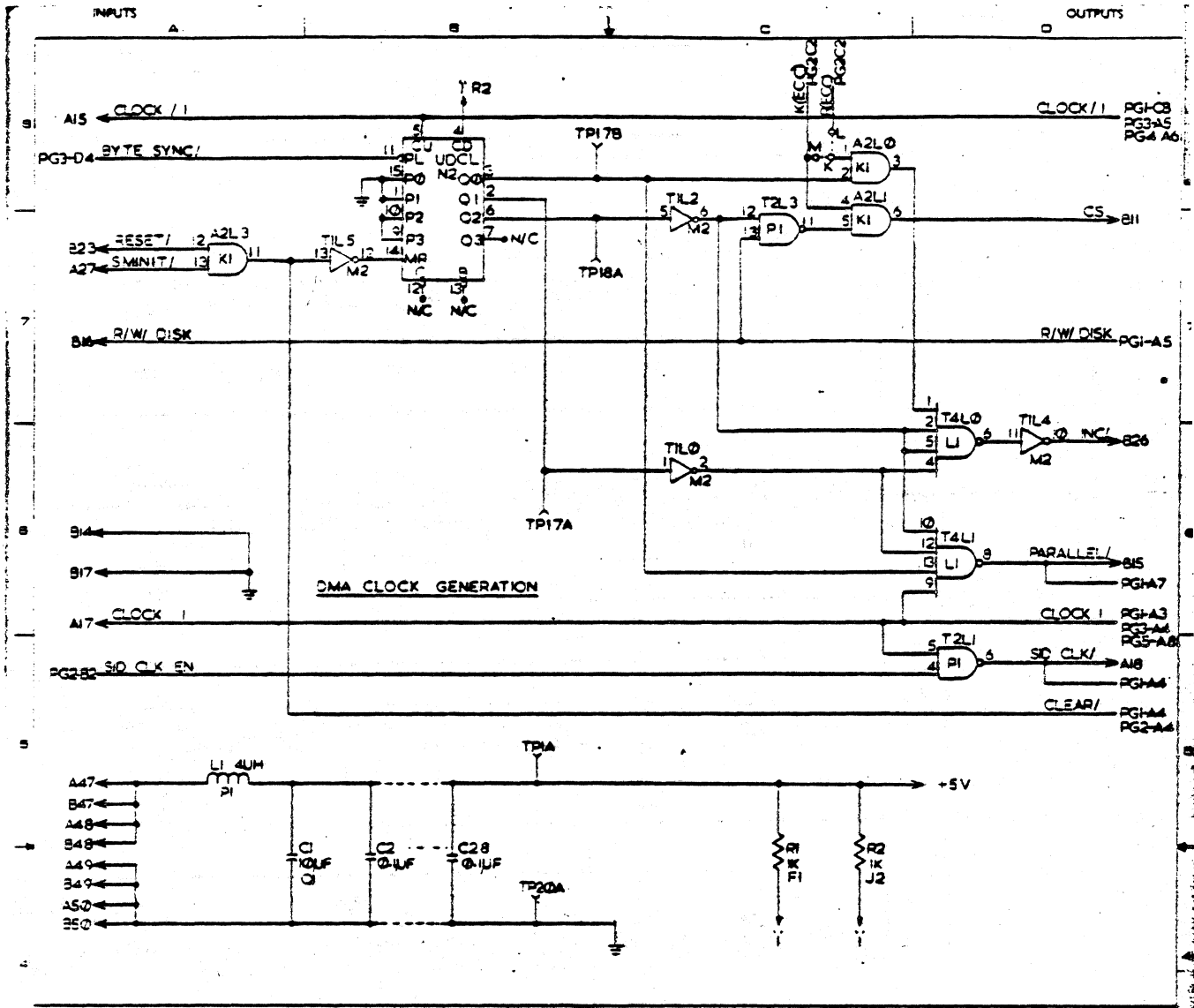
1887 0014 5 7	<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHKD</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV	DATE	BY	CHKD						SCHEMATIC DCC 018 1887 0014 5 7
		REV	DATE	BY	CHKD						
1887 0014 5 7											



ECC2

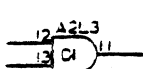
- NOTE 1- ALL POINTS LABELLED 'RST' CONNECT TO 1
- NOTE 2- ALL POINTS LABELLED 'CLK' CONNECT TO 2 (ECC CLK)
- NOTE 3- ALL D-TYPES LABELLED 6-30 ARE DR6L

1987 C014 6-7			SCHEMATIC ECC	
	018	018	018	018
6-7		6-7		6-7

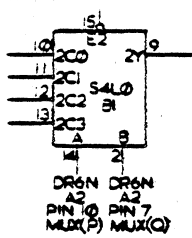


UNUSED GATES

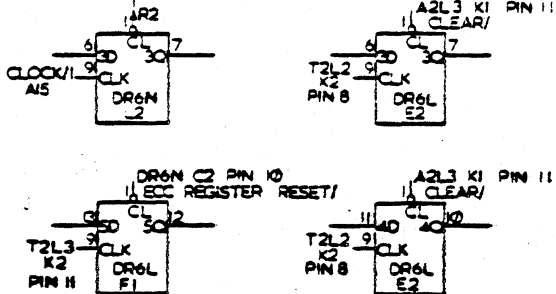
UNUSED AND GATE



UNUSED MULTIPLEXOR



UNUSED D-TYPES



NOTES

1. FOR ASSEMBLY SEE E 1886 9917
2. UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHMS
3. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4W ±2%
4. FOR WIRE LINK INFO SEE ASSEMBLY AND 1886-1906

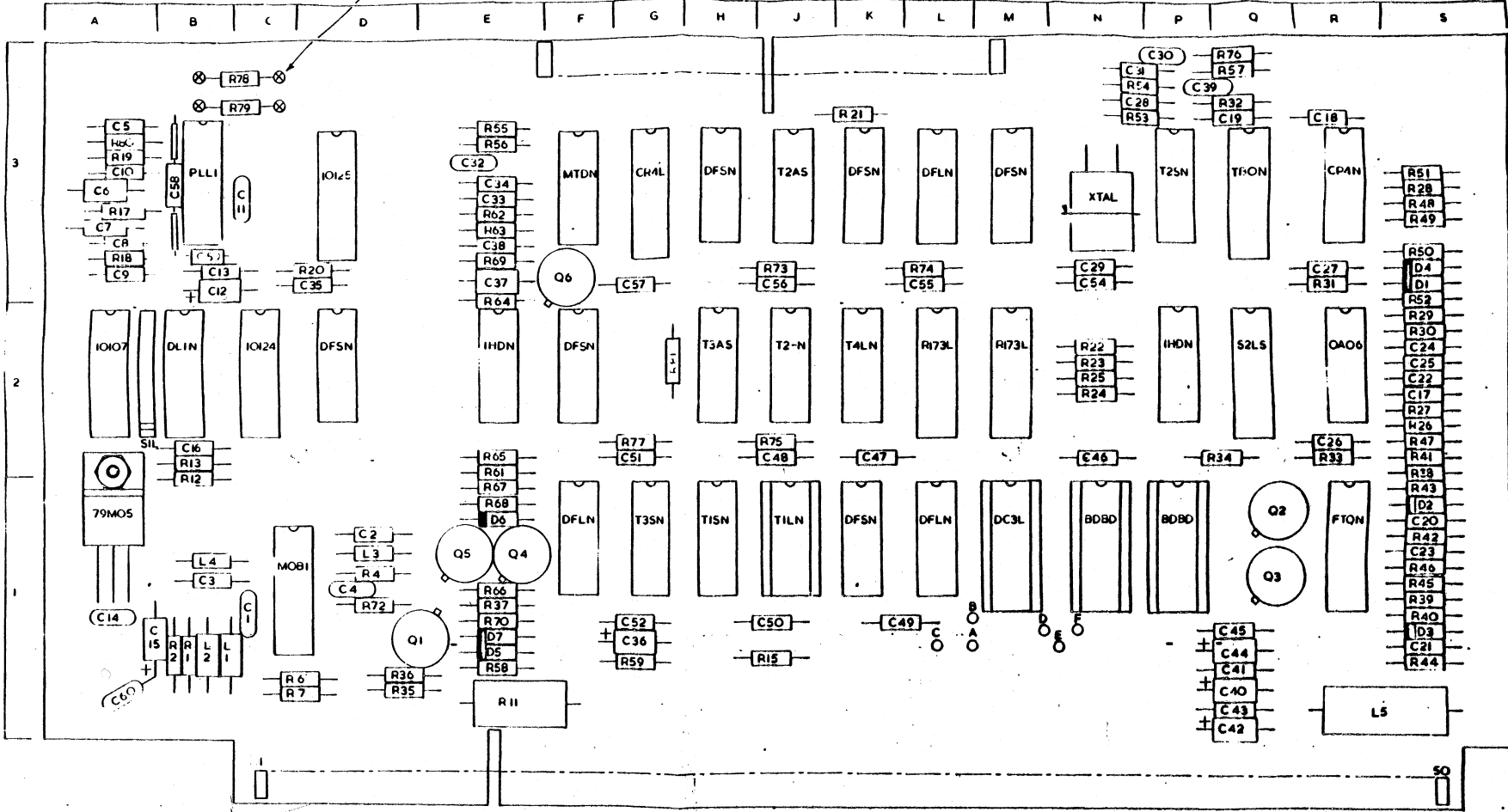
LABELS INDICATE CONNECTIONS OF COMMON PINS

1887 0014 7 7 7		SCHEMATIC 000	
		018	D 887 0014
J. FALLS		7 7 7	

DO NOT SCALE IF IN DOUBT - ASK

E-1887 5179

REVISIONS
 A NM
 INITIAL RELEASE
 B NM
 SEE ECN
 C NM
 SEE ECN
 D NM
 GR F7 CSBAND
 C59 ADDED
 GR G7 POSTS
 ADDED
 NOTES ADDED
 E NM
 GR C7 C60 ADDED
 F NM
 GR E2 RB ADDED
 G NM
 Q3 TEON WAS LAMIN
 H NM
 NETWORK INSTRUCTION
 I NM



NOTE
 1. WIRE LINK INFORMATION
 NO OF HEADS/CYLINDER
 A, 4 (20MB)
 B, 8 (40MB)
 C, 16 (40MB)
 D, 16 (80MB)
 2. REQUIRED WIRE LINKS
 A, D-F AND A-C
 B, D-F AND A-B
 C, D-E AND A-C
 D, D-E AND A-B

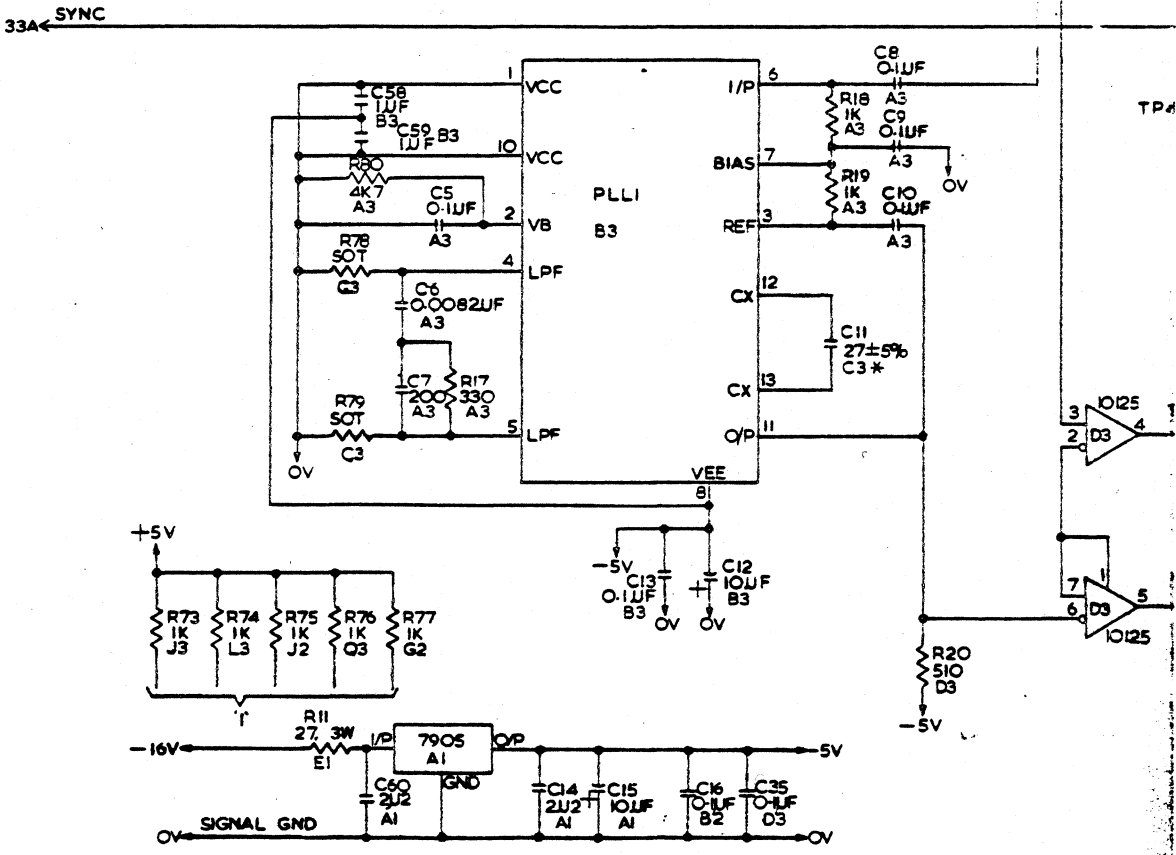
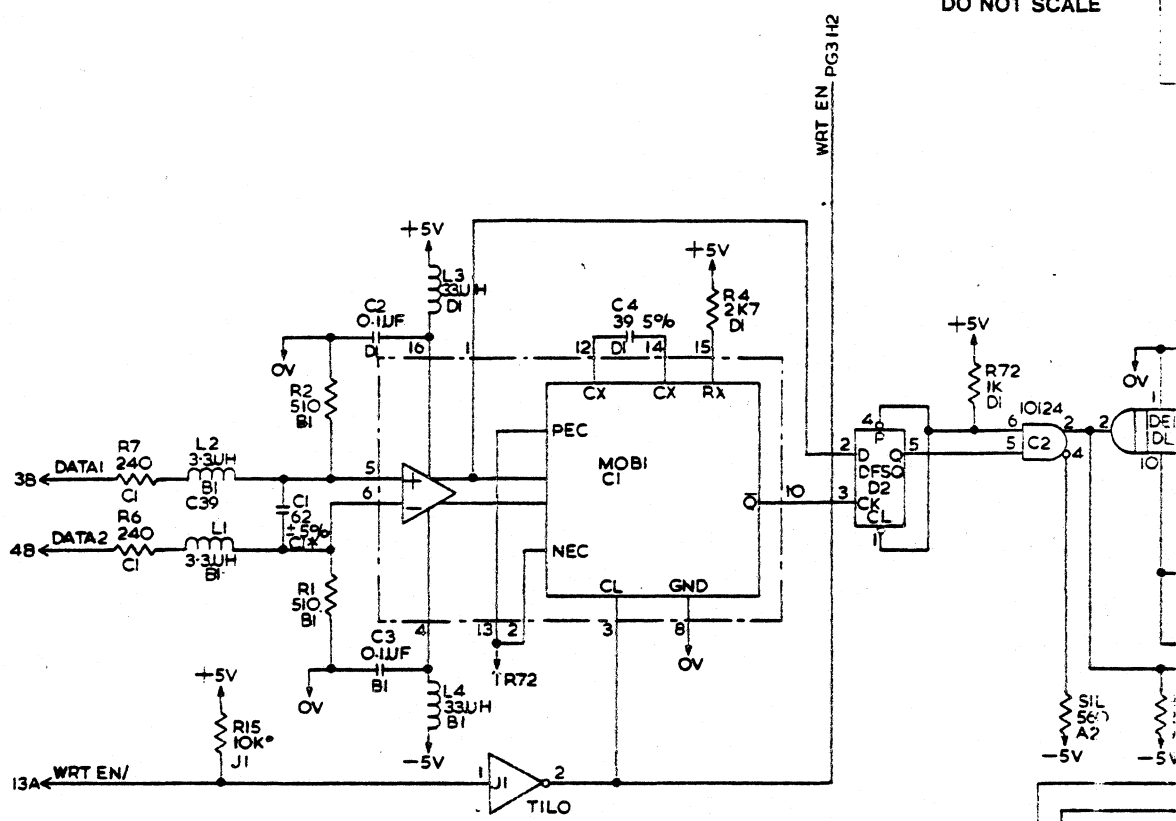
FOR SCHEMATIC SEE 1887 5195

THIS AREA INDICATES		GEN DUAL SPEC 1883 8543 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED	
WIRE NUMBER	TOLERANCE UNLESS OTHERWISE SPECIFIED	DATE	ANGLE
100 - 100 - 00 - 00	0.1%	11/27/71	
200 - 100 - 00 - 00	0.1%		
300 - 100 - 00 - 00	0.1%		
400 - 100 - 00 - 00	0.1%		
500 - 100 - 00 - 00	0.1%		
600 - 100 - 00 - 00	0.1%		
700 - 100 - 00 - 00	0.1%		
800 - 100 - 00 - 00	0.1%		
900 - 100 - 00 - 00	0.1%		
1000 - 100 - 00 - 00	0.1%		
1100 - 100 - 00 - 00	0.1%		
1200 - 100 - 00 - 00	0.1%		
1300 - 100 - 00 - 00	0.1%		
1400 - 100 - 00 - 00	0.1%		
1500 - 100 - 00 - 00	0.1%		
1600 - 100 - 00 - 00	0.1%		
1700 - 100 - 00 - 00	0.1%		
1800 - 100 - 00 - 00	0.1%		
1900 - 100 - 00 - 00	0.1%		
2000 - 100 - 00 - 00	0.1%		
2100 - 100 - 00 - 00	0.1%		
2200 - 100 - 00 - 00	0.1%		
2300 - 100 - 00 - 00	0.1%		
2400 - 100 - 00 - 00	0.1%		
2500 - 100 - 00 - 00	0.1%		
2600 - 100 - 00 - 00	0.1%		
2700 - 100 - 00 - 00	0.1%		
2800 - 100 - 00 - 00	0.1%		
2900 - 100 - 00 - 00	0.1%		
3000 - 100 - 00 - 00	0.1%		
3100 - 100 - 00 - 00	0.1%		
3200 - 100 - 00 - 00	0.1%		
3300 - 100 - 00 - 00	0.1%		
3400 - 100 - 00 - 00	0.1%		
3500 - 100 - 00 - 00	0.1%		
3600 - 100 - 00 - 00	0.1%		
3700 - 100 - 00 - 00	0.1%		
3800 - 100 - 00 - 00	0.1%		
3900 - 100 - 00 - 00	0.1%		
4000 - 100 - 00 - 00	0.1%		
4100 - 100 - 00 - 00	0.1%		
4200 - 100 - 00 - 00	0.1%		
4300 - 100 - 00 - 00	0.1%		
4400 - 100 - 00 - 00	0.1%		
4500 - 100 - 00 - 00	0.1%		
4600 - 100 - 00 - 00	0.1%		
4700 - 100 - 00 - 00	0.1%		
4800 - 100 - 00 - 00	0.1%		
4900 - 100 - 00 - 00	0.1%		
5000 - 100 - 00 - 00	0.1%		

DATA CHANNEL BOARD ASSEMBLY
 E-11

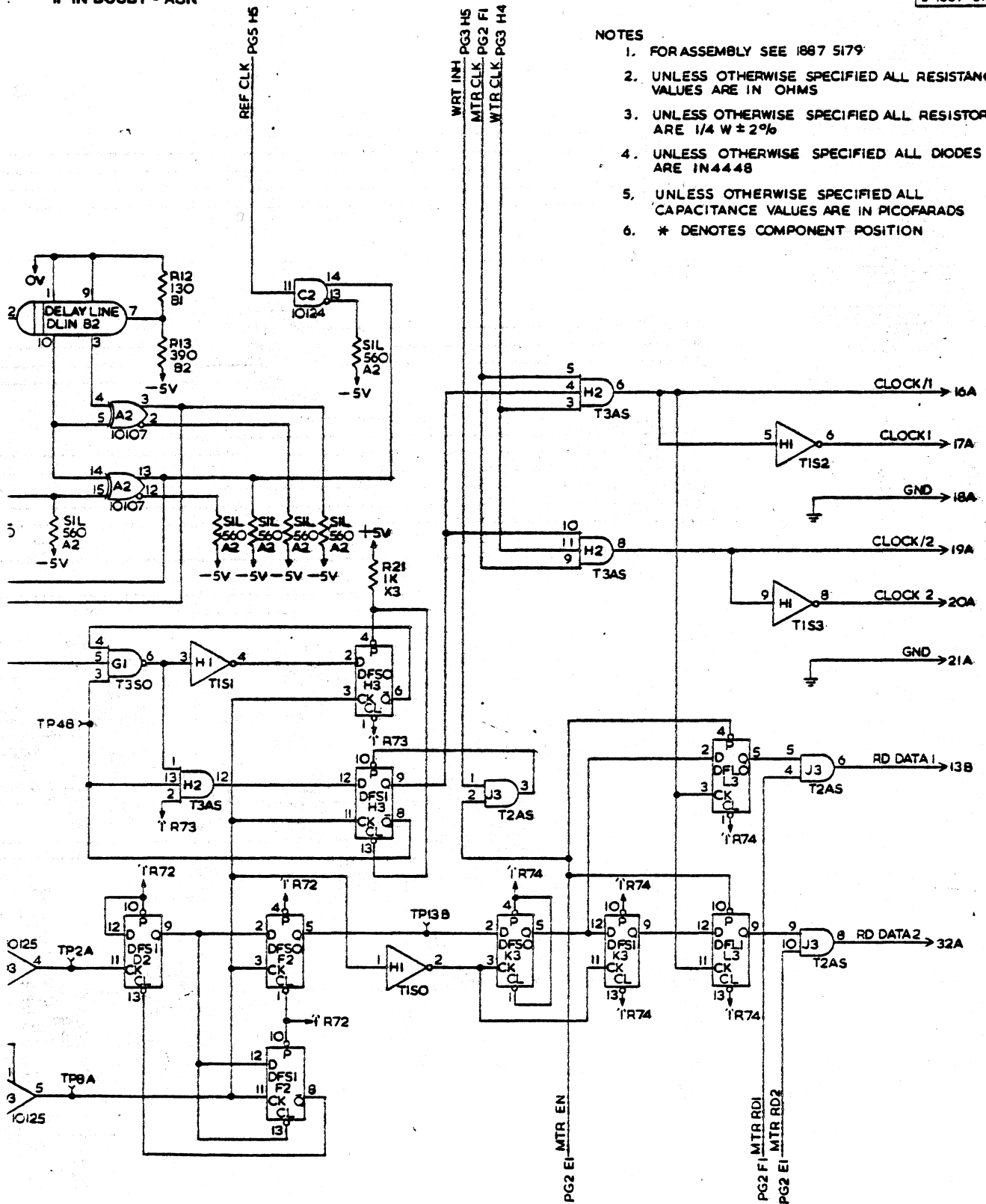
REVISIONS	
A	INITIAL RELEASE
B	SEE ECN
C	SEE ECN
D	AS ECN
E	SEE SHT 3
F	GR. A7 C60 ADDED
G	SEE SHT 3
H	AS ECN
J	SEE SHTS 2 AND 3.

DO NOT SCALE



NOTES

1. FOR ASSEMBLY SEE 1887 5179
2. UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHMS
3. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4 W ± 2%
4. UNLESS OTHERWISE SPECIFIED ALL DIODES ARE IN4448
5. UNLESS OTHERWISE SPECIFIED ALL CAPACITANCE VALUES ARE IN PICOFARADS
6. * DENOTES COMPONENT POSITION

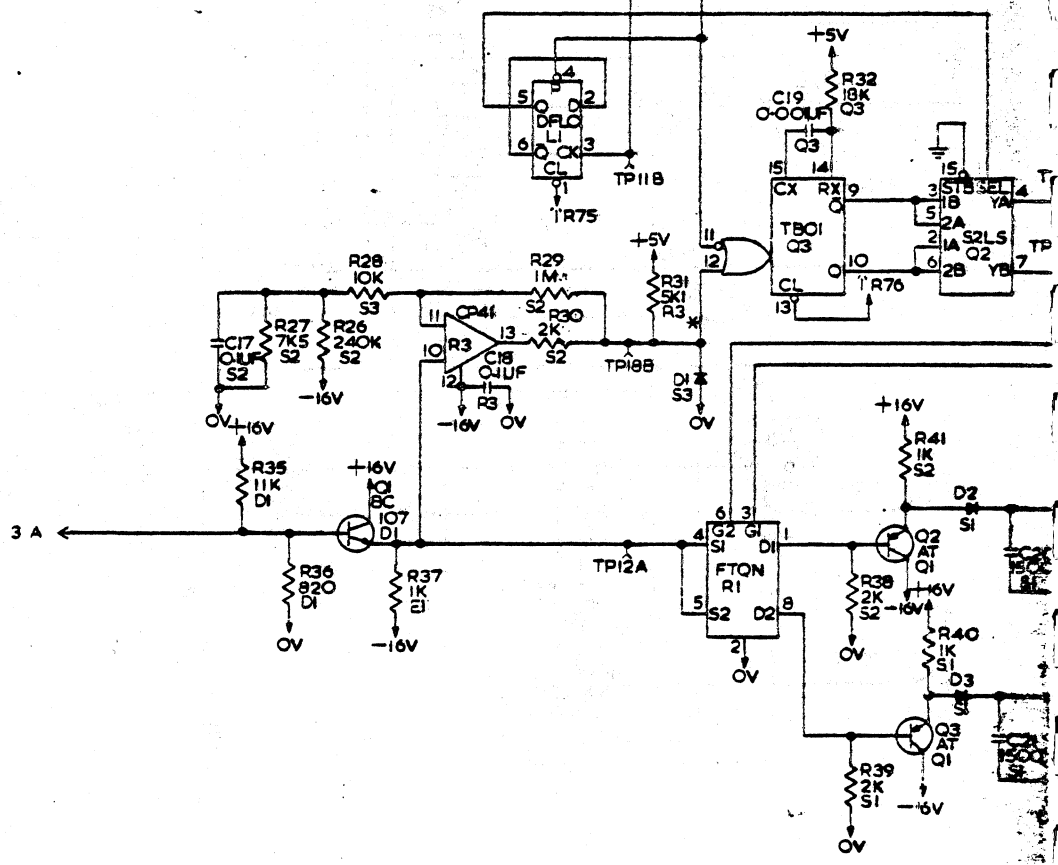
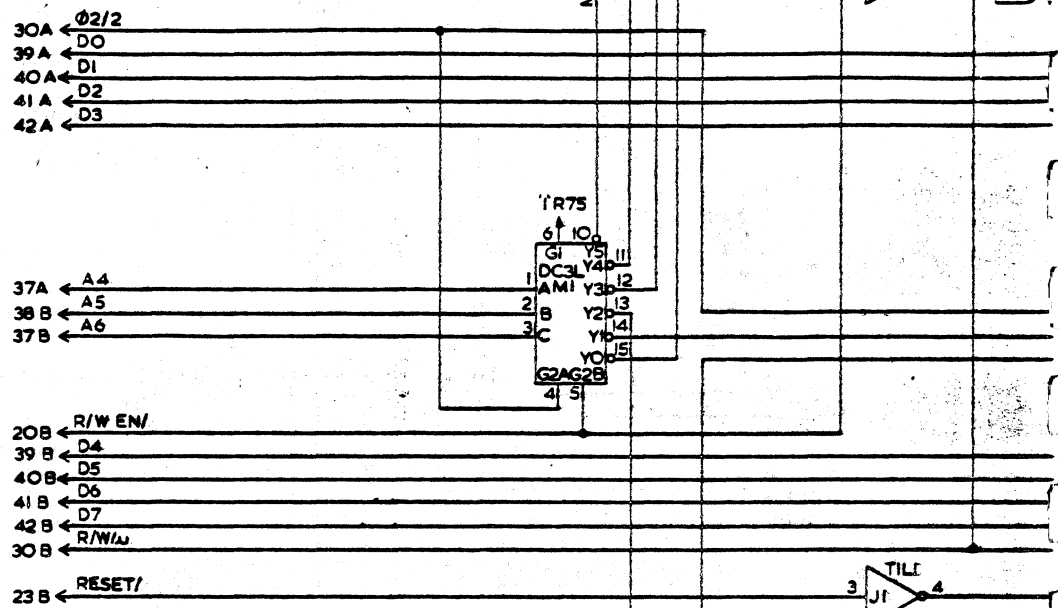


THIS TABLE		GEN. QUAL SPEC 1183 5543 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED				DATE	
REDUCTION		HOLE QUANTITIES		TOLERANCES UNLESS OTHERWISE SPECIFIED		N. MURRAY	
		TOLERANCES		ANGLES :		CHECKED DATE	
0.00	- 0.01	0.00	0.01	XXX			27/3/61
0.01	- 0.02	0.01	0.02				27/3/61
0.02	- 0.03	0.02	0.03				27/3/61
0.03	- 0.04	0.03	0.04				27/3/61
0.04	- 0.05	0.04	0.05				27/3/61
0.05	- 0.06	0.05	0.06				27/3/61
0.06	- 0.07	0.06	0.07				27/3/61
0.07	- 0.08	0.07	0.08				27/3/61
0.08	- 0.09	0.08	0.09				27/3/61
0.09	- 0.10	0.09	0.10				27/3/61
0.10	- 0.11	0.10	0.11				27/3/61
0.11	- 0.12	0.11	0.12				27/3/61
0.12	- 0.13	0.12	0.13				27/3/61
0.13	- 0.14	0.13	0.14				27/3/61
0.14	- 0.15	0.14	0.15				27/3/61
0.15	- 0.16	0.15	0.16				27/3/61
0.16	- 0.17	0.16	0.17				27/3/61
0.17	- 0.18	0.17	0.18				27/3/61
0.18	- 0.19	0.18	0.19				27/3/61
0.19	- 0.20	0.19	0.20				27/3/61
0.20	- 0.21	0.20	0.21				27/3/61
0.21	- 0.22	0.21	0.22				27/3/61
0.22	- 0.23	0.22	0.23				27/3/61
0.23	- 0.24	0.23	0.24				27/3/61
0.24	- 0.25	0.24	0.25				27/3/61
0.25	- 0.26	0.25	0.26				27/3/61
0.26	- 0.27	0.26	0.27				27/3/61
0.27	- 0.28	0.27	0.28				27/3/61
0.28	- 0.29	0.28	0.29				27/3/61
0.29	- 0.30	0.29	0.30				27/3/61
0.30	- 0.31	0.30	0.31				27/3/61
0.31	- 0.32	0.31	0.32				27/3/61
0.32	- 0.33	0.32	0.33				27/3/61
0.33	- 0.34	0.33	0.34				27/3/61
0.34	- 0.35	0.34	0.35				27/3/61
0.35	- 0.36	0.35	0.36				27/3/61
0.36	- 0.37	0.36	0.37				27/3/61
0.37	- 0.38	0.37	0.38				27/3/61
0.38	- 0.39	0.38	0.39				27/3/61
0.39	- 0.40	0.39	0.40				27/3/61
0.40	- 0.41	0.40	0.41				27/3/61
0.41	- 0.42	0.41	0.42				27/3/61
0.42	- 0.43	0.42	0.43				27/3/61
0.43	- 0.44	0.43	0.44				27/3/61
0.44	- 0.45	0.44	0.45				27/3/61
0.45	- 0.46	0.45	0.46				27/3/61
0.46	- 0.47	0.46	0.47				27/3/61
0.47	- 0.48	0.47	0.48				27/3/61
0.48	- 0.49	0.48	0.49				27/3/61
0.49	- 0.50	0.49	0.50				27/3/61
0.50	- 0.51	0.50	0.51				27/3/61
0.51	- 0.52	0.51	0.52				27/3/61
0.52	- 0.53	0.52	0.53				27/3/61
0.53	- 0.54	0.53	0.54				27/3/61
0.54	- 0.55	0.54	0.55				27/3/61
0.55	- 0.56	0.55	0.56				27/3/61
0.56	- 0.57	0.56	0.57				27/3/61
0.57	- 0.58	0.57	0.58				27/3/61
0.58	- 0.59	0.58	0.59				27/3/61
0.59	- 0.60	0.59	0.60				27/3/61
0.60	- 0.61	0.60	0.61				27/3/61
0.61	- 0.62	0.61	0.62				27/3/61
0.62	- 0.63	0.62	0.63				27/3/61
0.63	- 0.64	0.63	0.64				27/3/61
0.64	- 0.65	0.64	0.65				27/3/61
0.65	- 0.66	0.65	0.66				27/3/61
0.66	- 0.67	0.66	0.67				27/3/61
0.67	- 0.68	0.67	0.68				27/3/61
0.68	- 0.69	0.68	0.69				27/3/61
0.69	- 0.70	0.69	0.70				27/3/61
0.70	- 0.71	0.70	0.71				27/3/61
0.71	- 0.72	0.71	0.72				27/3/61
0.72	- 0.73	0.72	0.73				27/3/61
0.73	- 0.74	0.73	0.74				27/3/61
0.74	- 0.75	0.74	0.75				27/3/61
0.75	- 0.76	0.75	0.76				27/3/61
0.76	- 0.77	0.76	0.77				27/3/61
0.77	- 0.78	0.77	0.78				27/3/61
0.78	- 0.79	0.78	0.79				27/3/61
0.79	- 0.80	0.79	0.80				27/3/61
0.80	- 0.81	0.80	0.81				27/3/61
0.81	- 0.82	0.81	0.82				27/3/61
0.82	- 0.83	0.82	0.83				27/3/61
0.83	- 0.84	0.83	0.84				27/3/61
0.84	- 0.85	0.84	0.85				27/3/61
0.85	- 0.86	0.85	0.86				27/3/61
0.86	- 0.87	0.86	0.87				27/3/61
0.87	- 0.88	0.87	0.88				27/3/61
0.88	- 0.89	0.88	0.89				27/3/61
0.89	- 0.90	0.89	0.90				27/3/61
0.90	- 0.91	0.90	0.91				27/3/61
0.91	- 0.92	0.91	0.92				27/3/61
0.92	- 0.93	0.92	0.93				27/3/61
0.93	- 0.94	0.93	0.94				27/3/61
0.94	- 0.95	0.94	0.95				27/3/61
0.95	- 0.96	0.95	0.96				27/3/61
0.96	- 0.97	0.96	0.97				27/3/61
0.97	- 0.98	0.97	0.98				27/3/61
0.98	- 0.99	0.98	0.99				27/3/61
0.99	- 1.00	0.99	1.00				27/3/61

Burroughs
 BURROUGHS MACHINES LTD. GLENROTHES SCOTLAND
 SCHEMATIC DATA CHANNEL
 2-9520
 E-1887 5195

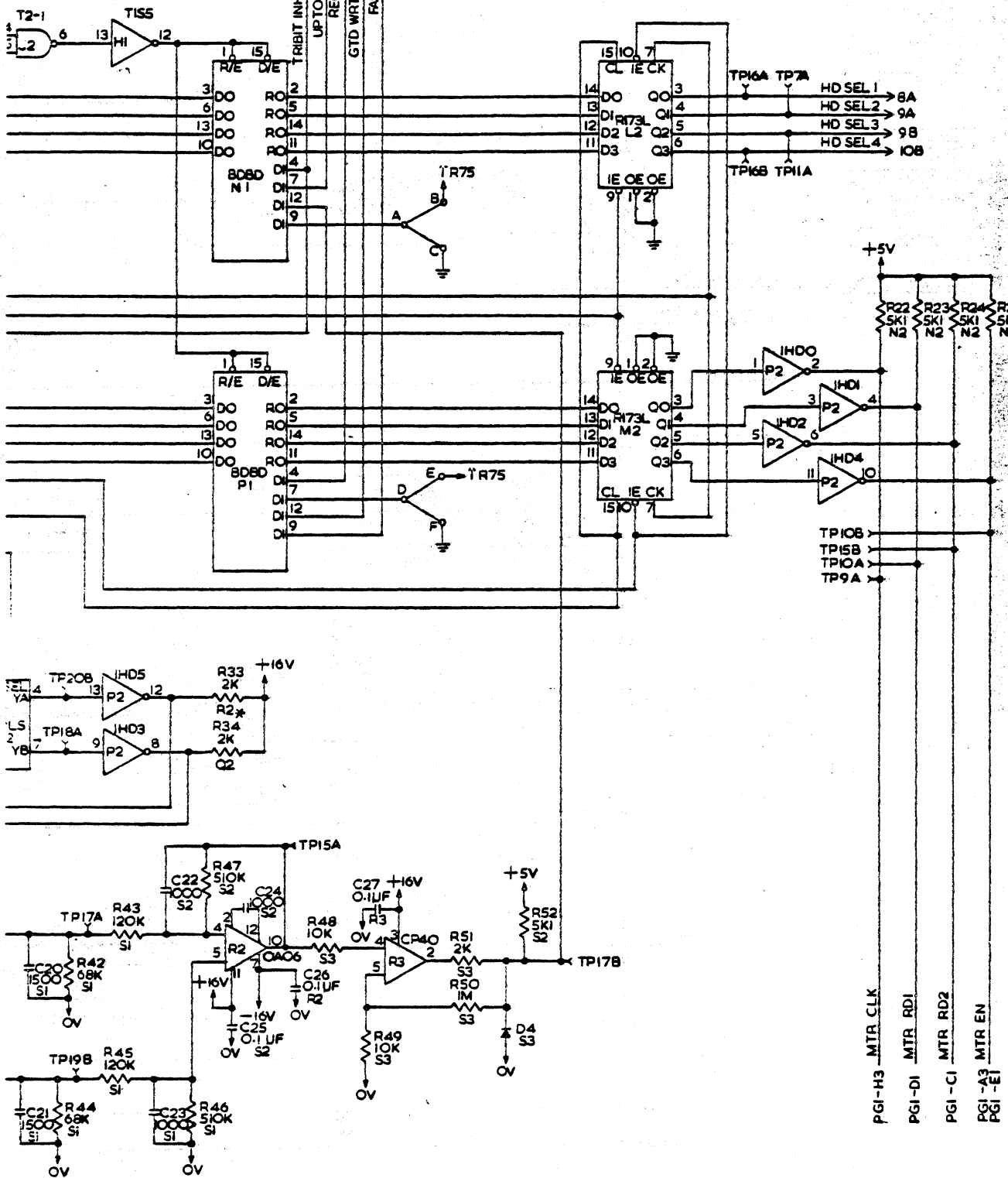
DO NOT SCALE

REVISIONS	
A	INITIAL RELEASE
B	SEE ECN
C	SEE SHT 1
D	AS ECN
E	SEE SHT 3
F	SEE SHT 1
G	SEE SHT 3
H	AS ECN
J	GRID REF 5D TBO1 WAS 'DMLI'.



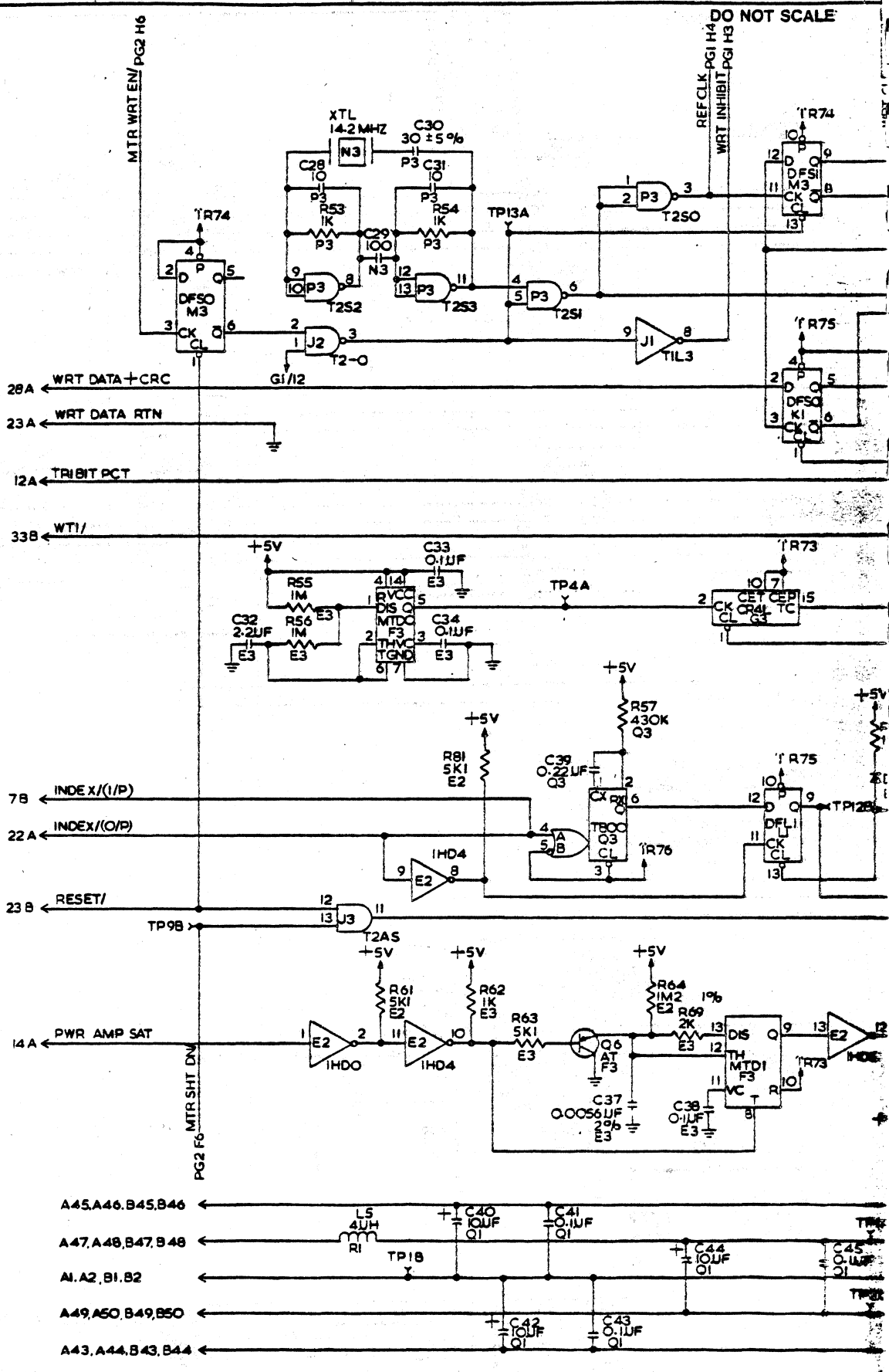
IF IN DOUBT - ASK

E-1887 5195

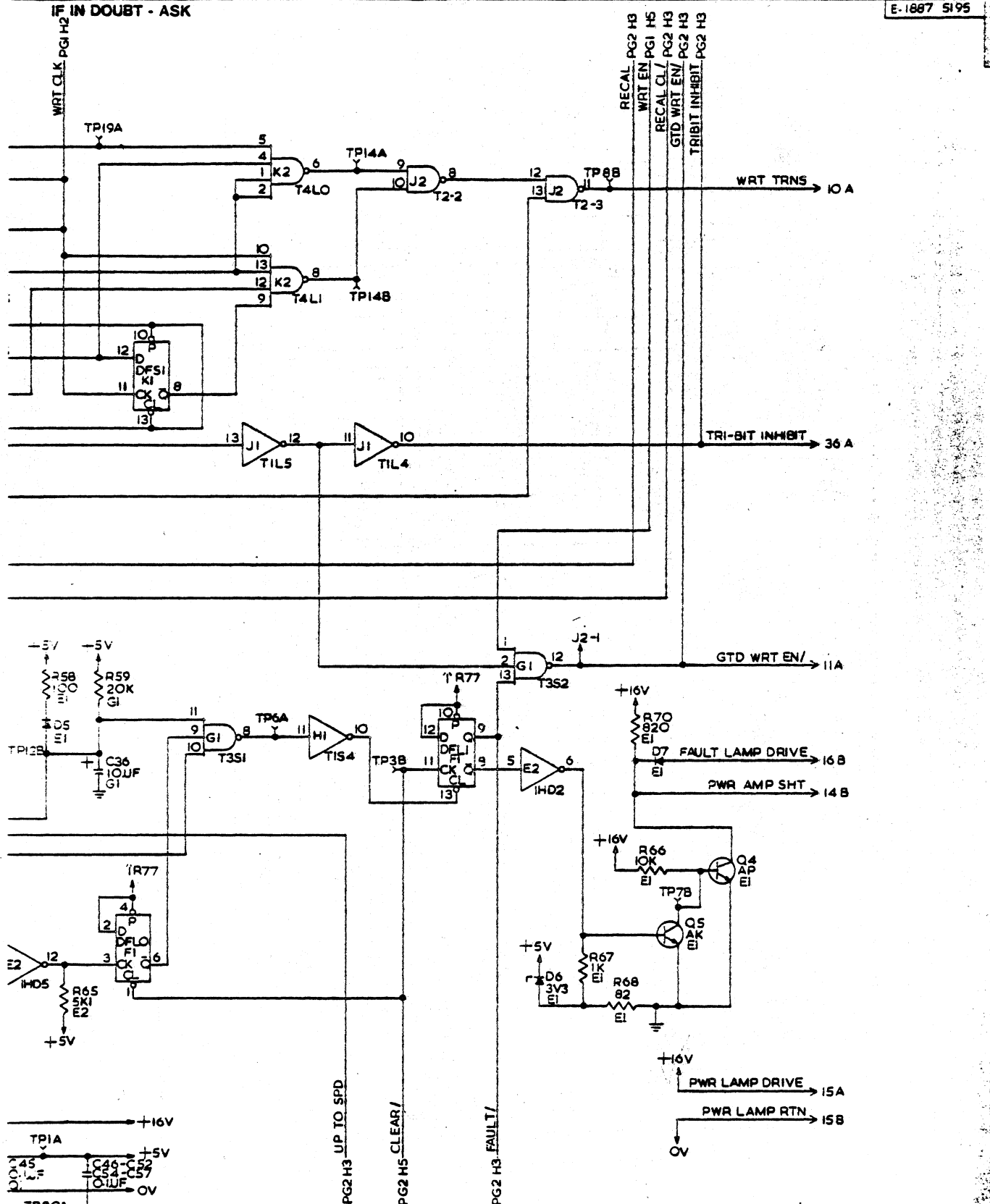


THIS AREA PROTECTS		GEN QUAL SPEC 1183 5543 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED		DATE	
HOLE CHARACTER	TOLERANCES	TOLERANCES UNLESS OTHERWISE SPECIFIED		DESIGNED BY	N MURRAY
	100 ± 0.10	XXX2	ANGLES 2	CHECKED BY	27/1/67
MATERIAL	10 ± 0.05	MATERIAL		APPROVED BY	27/1/67
	50 ± 0.02	HEAT TREATMENT		REVISIONS	27/1/67
SURFACE TREATMENT	100 ± 0.02	SURFACE TREATMENT		DATE	27/1/67
	10 ± 0.02	UNLESS OTHERWISE SPECIFIED		BY	E. GIBSON
TYPE		PROPERTY TO REMAIN - NOT TO BE REPRODUCED OR USED FOR		TITLE	SCHEMATIC DATA CHANNEL
TYPE		MANUFACTURING PURPOSES EXCEPT ON QUANTITY ORDERS OR FROM WRITTEN ORDER		SCALE	2 OF 3
				WORK NO.	E-1887 5195

REVISIONS	
A	INITIAL RELEASE
B	SEE ECN
C	SEE ECN
D	AS ECN
E	GR C5 IM21 WAS 909K
F	SEE SHT 1
G	GR C5 IM2 WAS IM21
H	AS ECN
J	GRID REF 6D TBOO WAS DMLO.



IF IN DOUBT - ASK



THIRD ANGLE PROJECTION		GEN. QUAL. SPEC. 1163 5543 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED		DRAWN BY: N. MURRAY		DATE: 27/7/81	
HOLE DIAMETER TOLERANCES	XX ±	TOLERANCES UNLESS OTHERWISE SPECIFIED	XX ±	ANGLES	°	CHECKED BY: J. MURRAY	DATE: 27/7/81
DESIGN CONTROL		MATERIAL				DESIGNED BY: J. MURRAY	DATE: 27/7/81
JOB TYPE		HEAT TREATMENT				ENGINEERED BY: E. MURRAY	DATE: 27/7/81
		SURFACE TREATMENT					
		UNLESS OTHERWISE SPECIFIED					
		PROPERTY TO BURROUGHS - NOT TO BE REPRODUCED OR USED FOR					
		CAN BE REPRODUCED WITHOUT BURROUGHS' WRITTEN PERMISSION					
TITLE: SCHEMATIC DATA CHANNEL						SCALE: 1:1	SHEET: 3 OF 3
DRAWING NO.: E-1887 5195						DATE: 27/7/81	

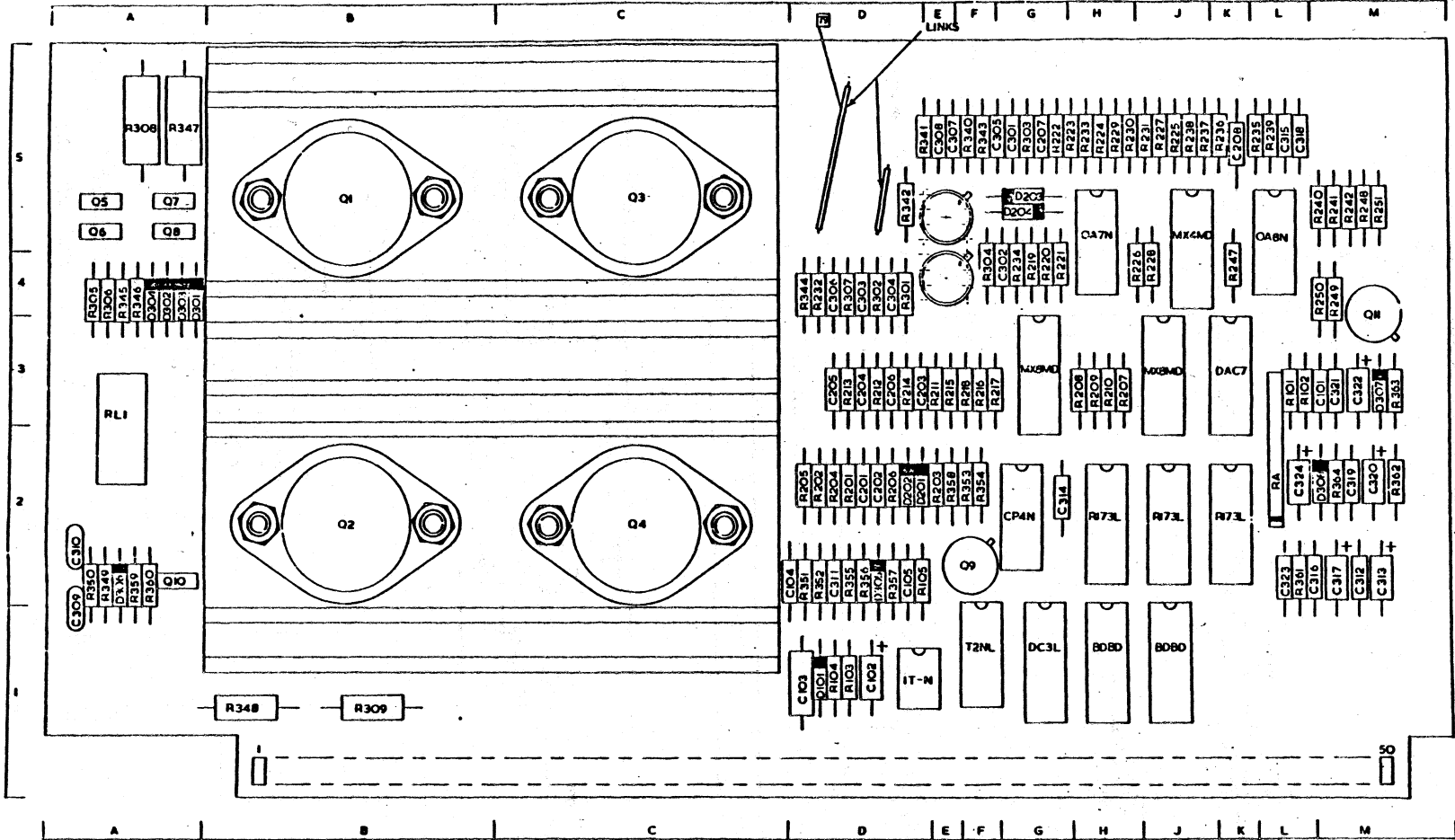


BURROUGHS MACHINES LTD GLENROTHES SCOTLAND UK

DO NOT SCALE IF IN DOUBT - ASK

E 1887 5039

INITIAL RELEASE
AS ECN
E 1887 5039



NOTE
1 R308 AND R347 TO BE MOUNTED 0.125 MIN CLEAR OF THE BOARD

REV	DATE	BY	CHKD	APP'D
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
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16				
17				
18				
19				
20				

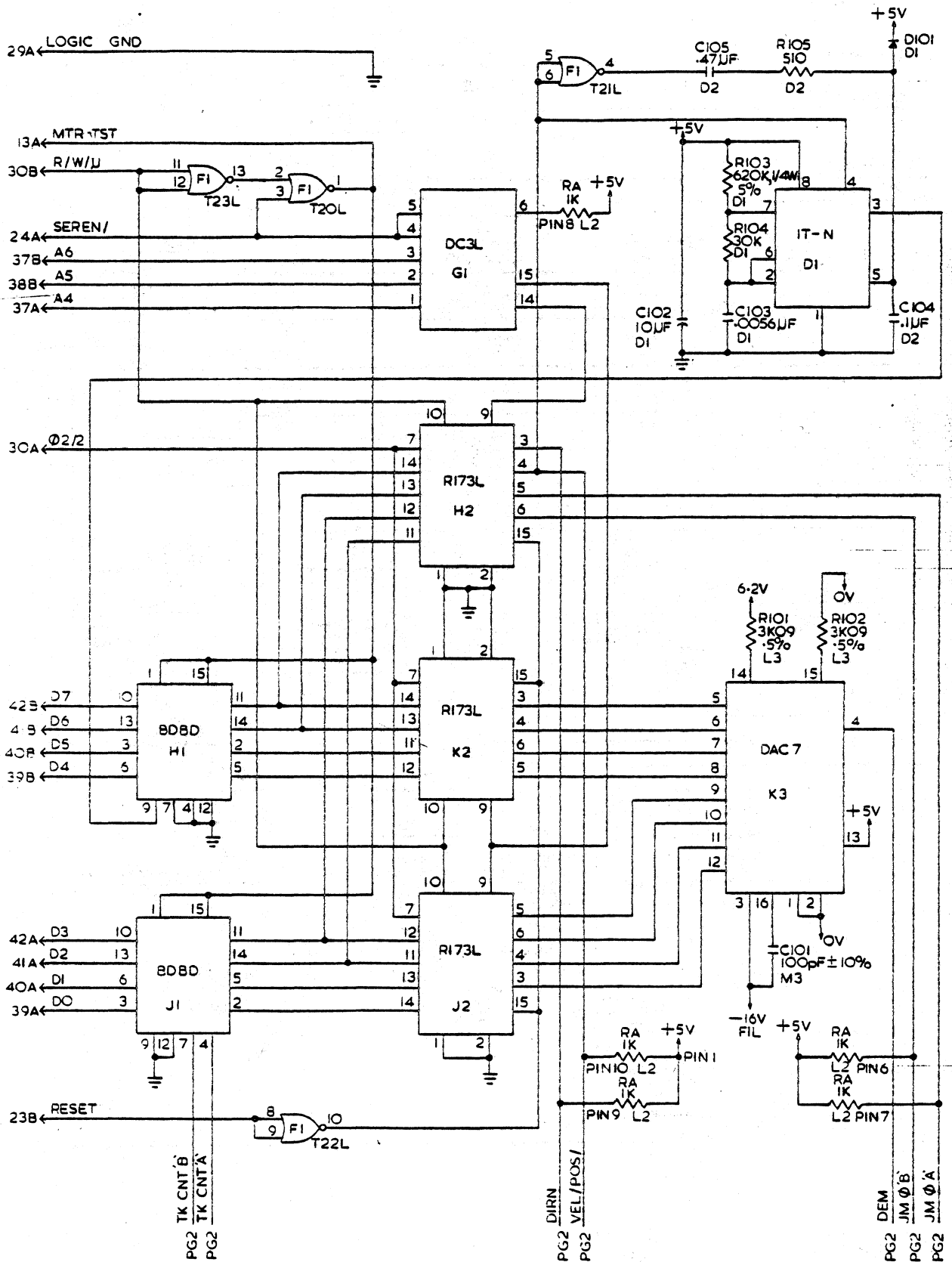
GEN QIAL SPEC TRG 5043 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED

DESIGNED BY: MARRAY D/SB
CHECKED BY: [Signature]
DATE: [Date]
DRAWN BY: [Signature]
DATE: [Date]

Burrheads
SERV BOARD ASSY (SV) E-7045
E 1887 5039

INPUTS

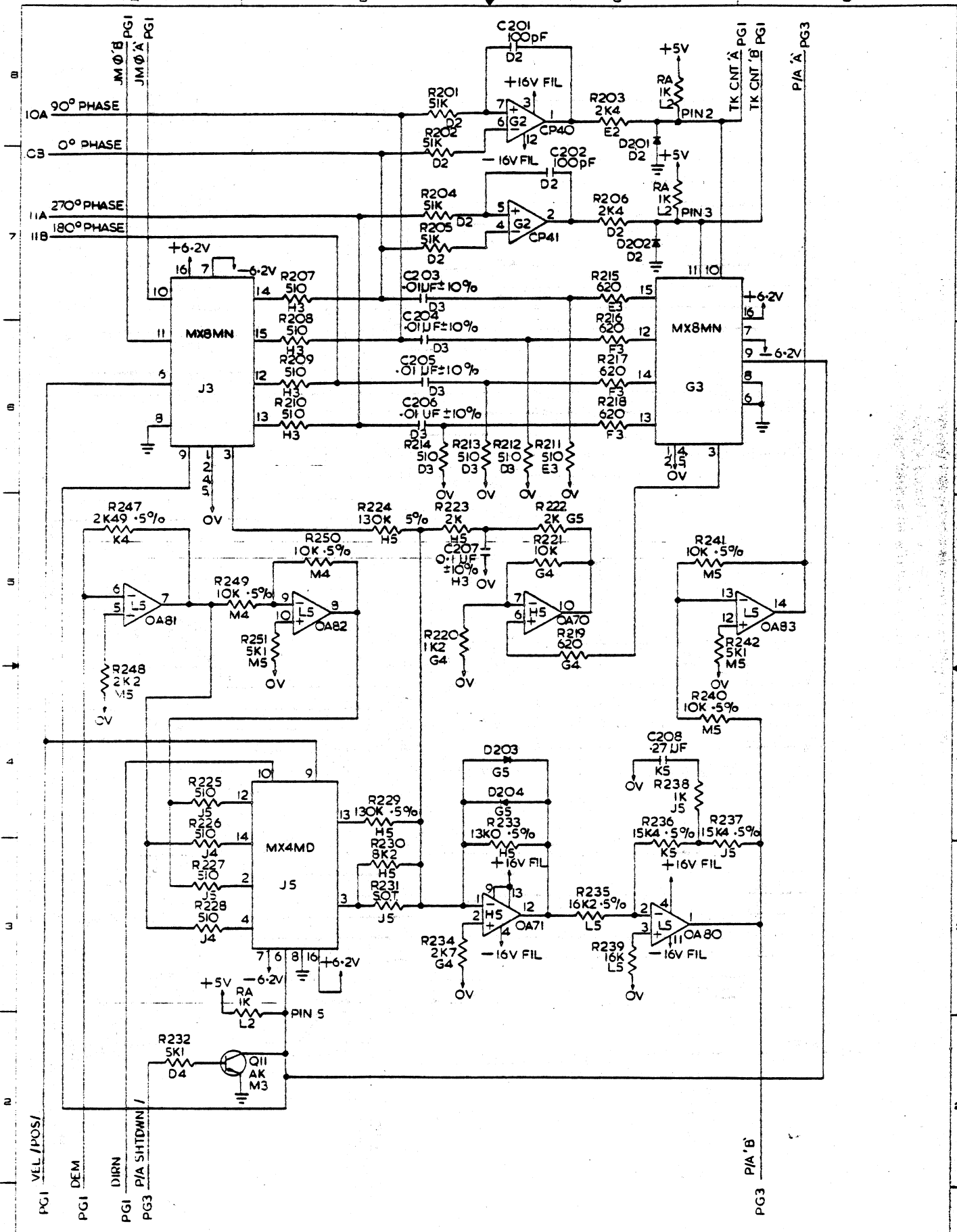
OUTPUTS



		SCHMATIC SERVO BOARD (16V)	
BURROUGHS MACHINES LIMITED GLENROTHS, SCOTLAND, U.K.	FILE NO. 2 9520	CHECKED BY ENGINEER	DATE 5/81
PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED WITH-OUT WRITTEN CONSENT. MANUFACTURING PURPOSES EXCEPT ON SUBROUTINE ORDER OR PAID WRITTEN COMMENT.	DRAWN BY N. MURRAY	DATE 5/81	DATE 2/81

INPUTS

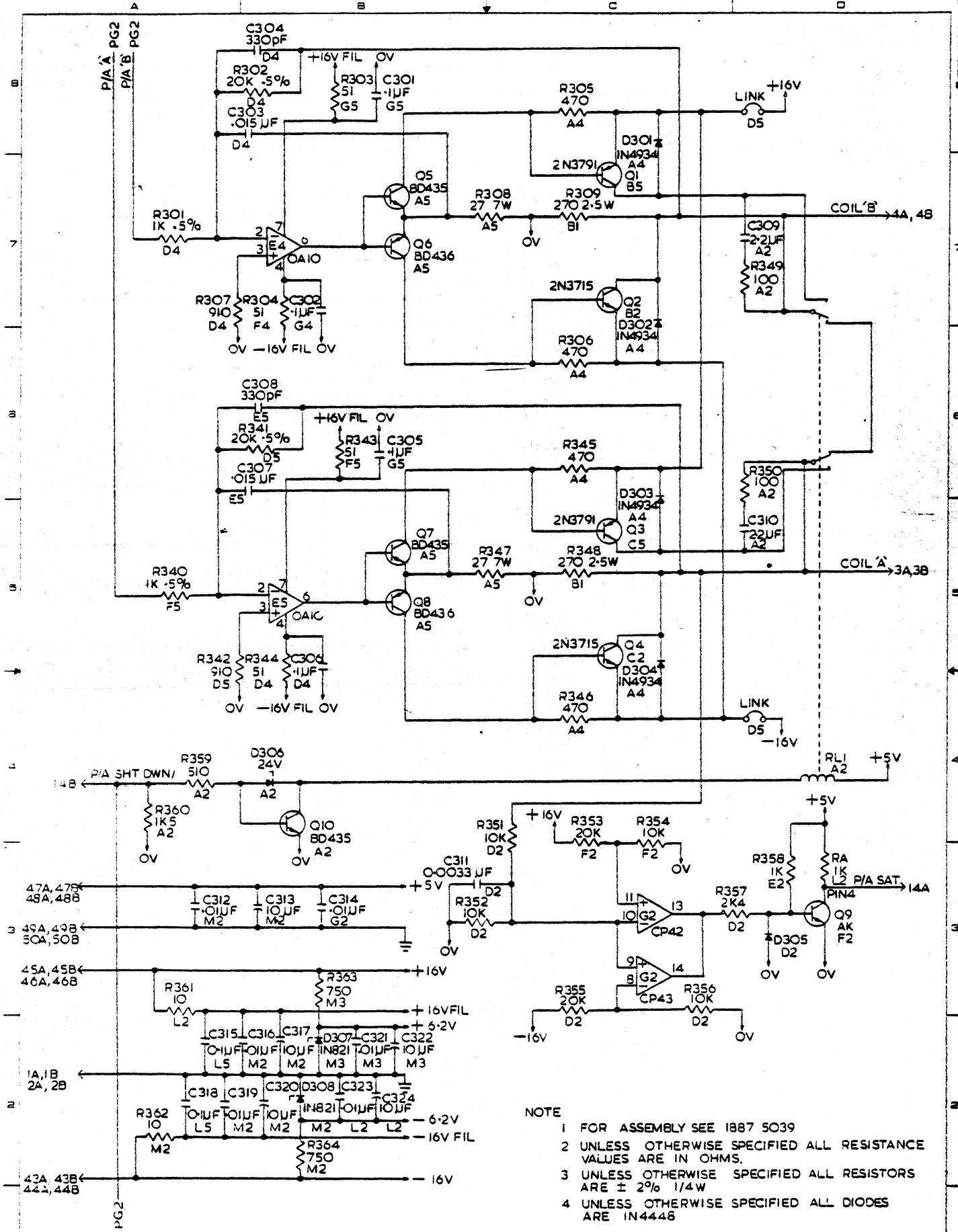
OUTPUTS



1887 5021 1205 SQ21		Burroughs BURROUGHS MACHINES LIMITED BURROUGHS, SCOTLAND U.K.		TITLE: SCHEMATIC SERVO BOARD (16V) DOC. NO. 2 9520 CLASS CODE 018 DRAWN: N MURRAY DATE: 5/81				CHECKED: [Signature] ENGINEER: [Signature] DATE: 2/81		DWG. NO. D 1887 5021 DATE: 2/81 SHEET 2 OF 3 REV. D	
------------------------	--	--	--	--	--	--	--	---	--	--	--

INPUTS

OUTPUTS



- NOTE
- 1 FOR ASSEMBLY SEE 1887 5039
 - 2 UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHMS.
 - 3 UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE ± 2% 1/4W
 - 4 UNLESS OTHERWISE SPECIFIED ALL DIODES ARE IN4448

1887 5021		DATE		D 1887 5021	
1887 5021		DATE		3 of 3	
1887 5021		DATE		REV D	

Burroughs		SCHEMATIC SERVO BOARD (16V)	
DESIGN	018	CHECKED	2/16/51
CLASS CODE	29520	DATE	2/16/51
DRAWN	N MURRAY	DATE	2/16/51

DO NOT SCALE

REVISIONS	
REV. NO.	DATE
1	11/22/55
2	12/1/55
3	12/1/55
4	12/1/55
5	12/1/55
6	12/1/55
7	12/1/55
8	12/1/55
9	12/1/55
10	12/1/55
11	12/1/55
12	12/1/55
13	12/1/55
14	12/1/55
15	12/1/55
16	12/1/55
17	12/1/55
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83	12/1/55
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93	12/1/55
94	12/1/55
95	12/1/55
96	12/1/55
97	12/1/55
98	12/1/55
99	12/1/55
100	12/1/55

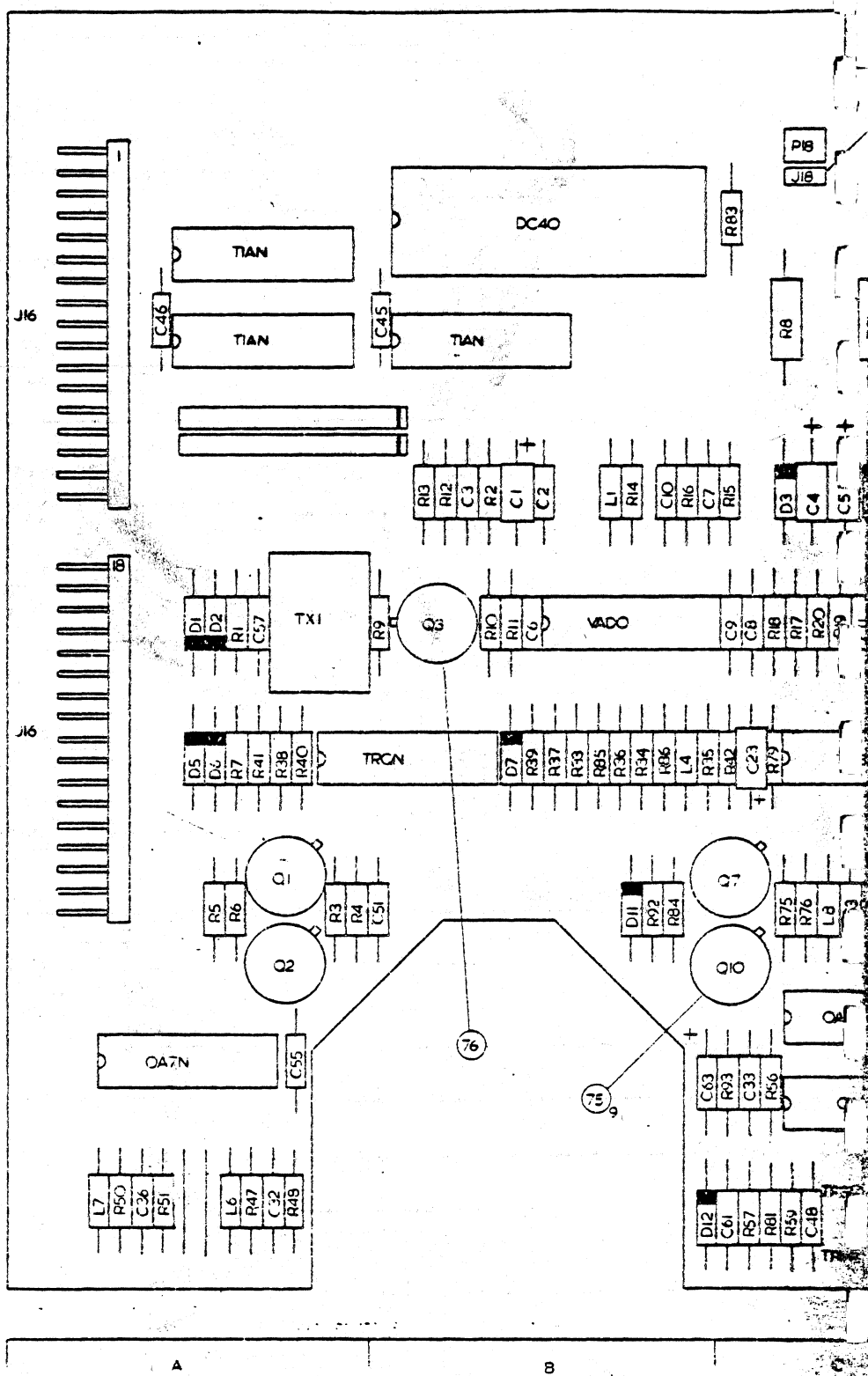
INITIAL RELEASE

SEE ECN

REWORK INSTRUCTION

H
G
F
E
D
C
B
A

1
2
3
4
5
6
7
8

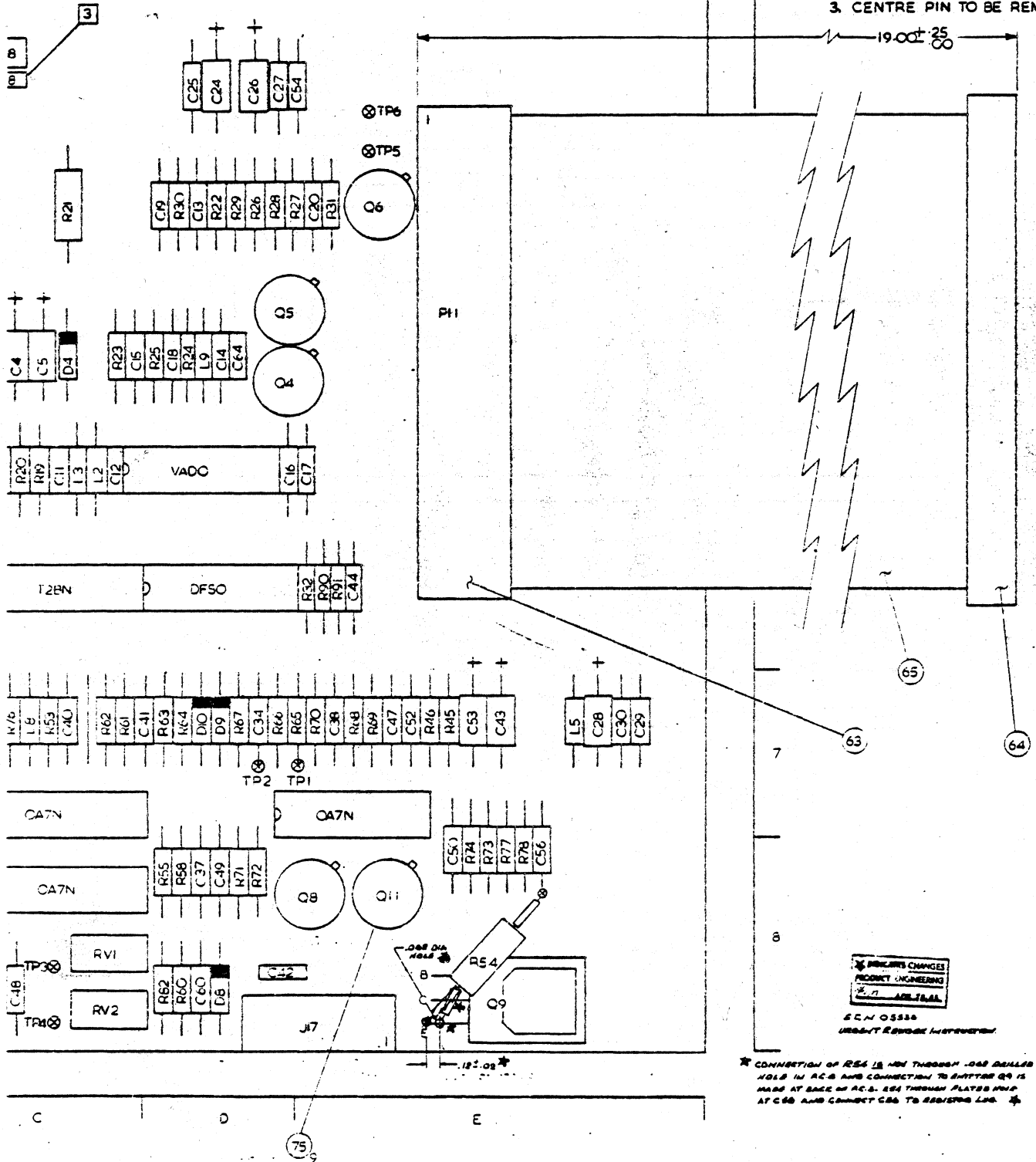


IF IN DOUBT - ASK

E-1888 8107

NOTES.

1. FOR SCHEMATIC SEE 1888 8115
2. MAX COMPONENT HEIGHT ABOVE BOARD SURFACE UNDER CAN TO BE .475
3. CENTRE PIN TO BE REMOVED



REWORK CHANGES
PRODUCT ENGINEERING
DATE LABELING

SEN 05530

URGENT REWORK INSTRUCTION

* CONNECTION OF RES 18 IS MADE THROUGH .048 DRILLED HOLE IN AC.B AND CONNECTION TO SWITCH Q9 IS MADE AT BACK OF AC.B. RES THROUGH PLATES MADE AT C60 AND CONNECT C66 TO REGISTER LOG.

THIRD ANGLE PROJECTION		GEN. DIM.	SPEC. 180 8543 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED	DATE	BY	CHKD.	APP'D.
DATE	12/3/57	DESIGNED BY	W. J. HALL	DATE	12/3/57	CHKD.	W. J. HALL
SCALE	1:1	MATERIAL	ALUMINUM	ENGINEER	W. J. HALL	DATE	12/3/57
WORKING	1:1	HEAT TREATMENT		DATE	12/3/57	CHKD.	W. J. HALL
CONTRACT	1:1	SLURRY TREATMENT		DATE	12/3/57	APP'D.	W. J. HALL
REV.	1	DATE	12/3/57	DATE	12/3/57	DATE	12/3/57

Burroughs

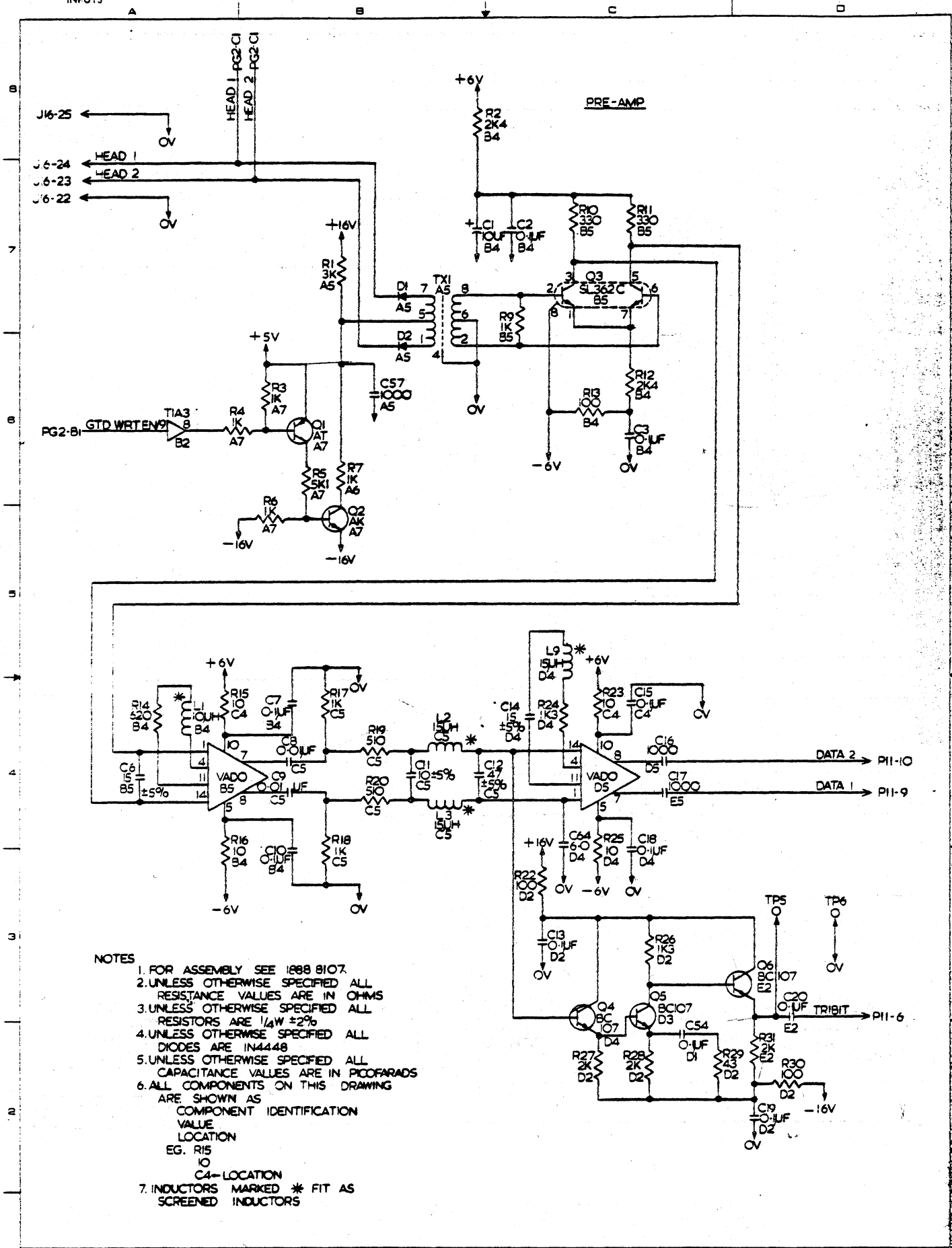
BURROUGHS MACHINES LTD GLENROTHES SCOTLAND UK

PRE-AMP 80 ASSY 16V

E-1888 8107

INPUTS

OUTPUTS

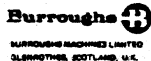


NOTES

1. FOR ASSEMBLY SEE 1888 8107.
2. UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHMS
3. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4W ±2%
4. UNLESS OTHERWISE SPECIFIED ALL DIODES ARE IN4448
5. UNLESS OTHERWISE SPECIFIED ALL CAPACITANCE VALUES ARE IN PICOFARADS
6. ALL COMPONENTS ON THIS DRAWING ARE SHOWN AS COMPONENT IDENTIFICATION VALUE LOCATION
EG. R15
10
C4- LOCATION
7. INDUCTORS MARKED * FIT AS SCREENED INDUCTORS

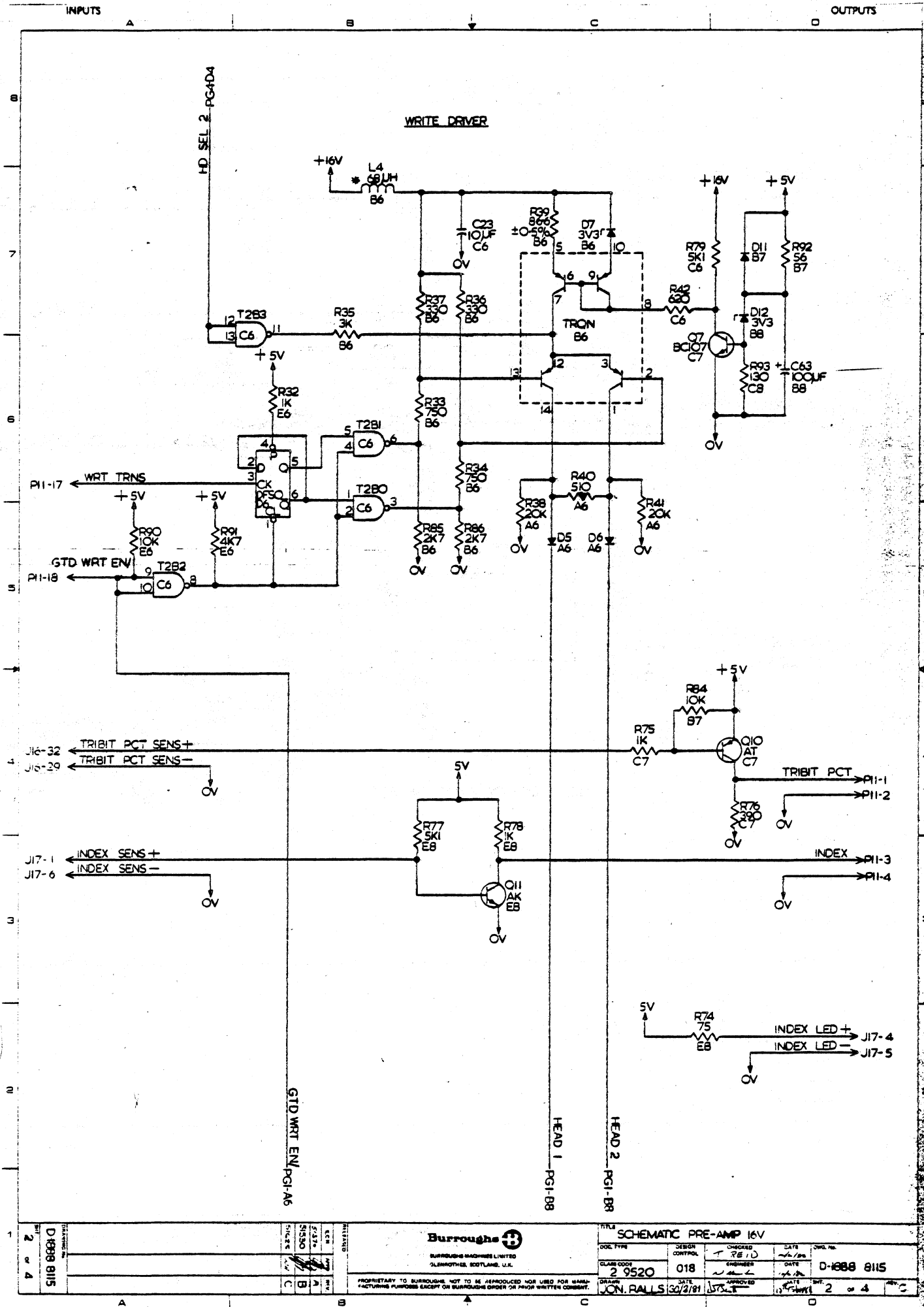
1888 8115

REV	DATE	BY	CHKD
1	11/27/57	JON RALLS	



PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.

TITLE: SCHEMATIC PRE-AMP 16V			
DOC. TYPE	DESIGN CONTROL	CHECKED	DATE
CLASS CODE	018	7/5 D	DATE
29520			0-1888 8115
DRG. NO.	DATE	APPROVED	DATE
JON RALLS	2/27/57		1/2/58



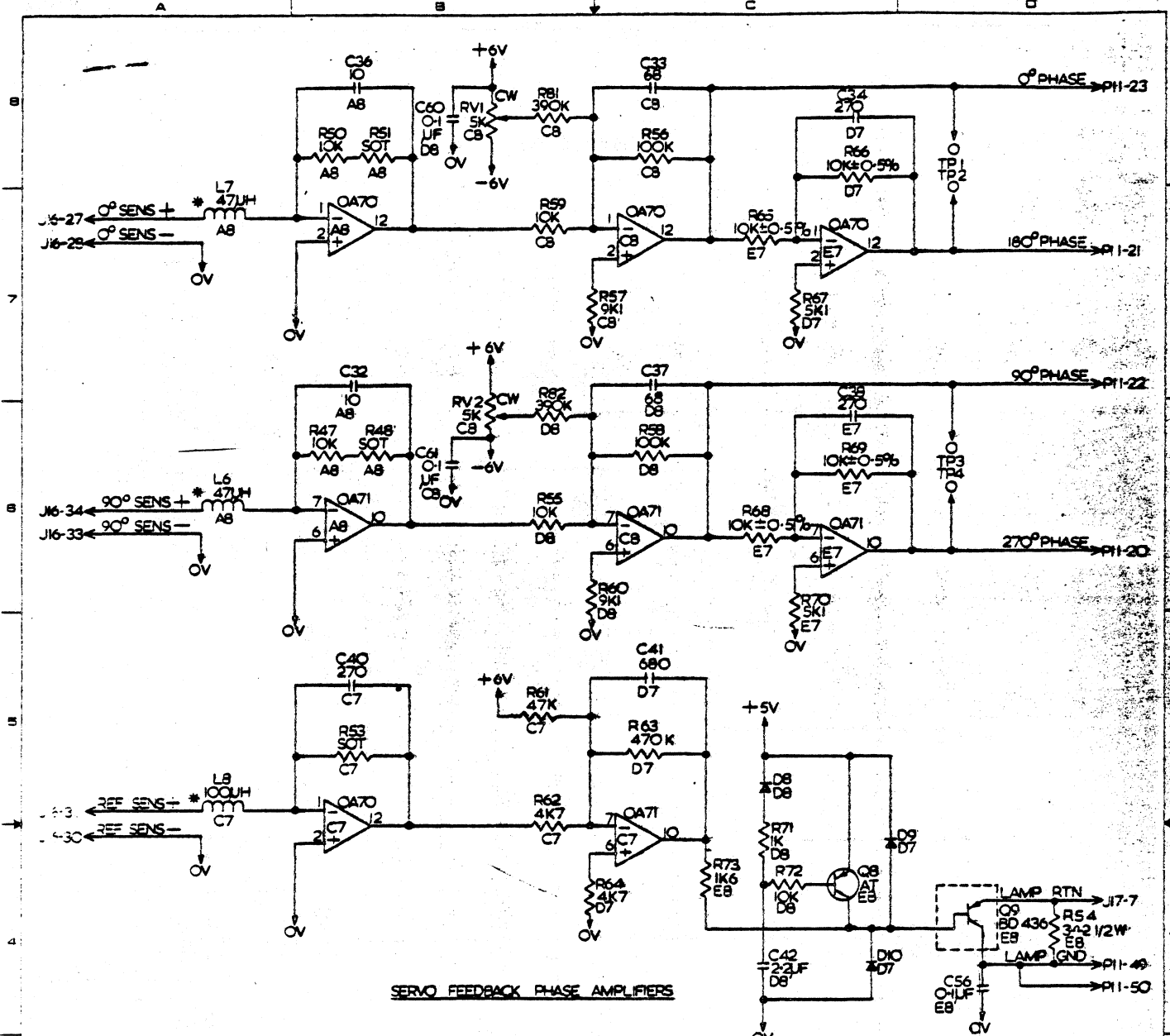
WRITE DRIVER

D-1888 8115			
REV	DATE	BY	CHK
2			
4			

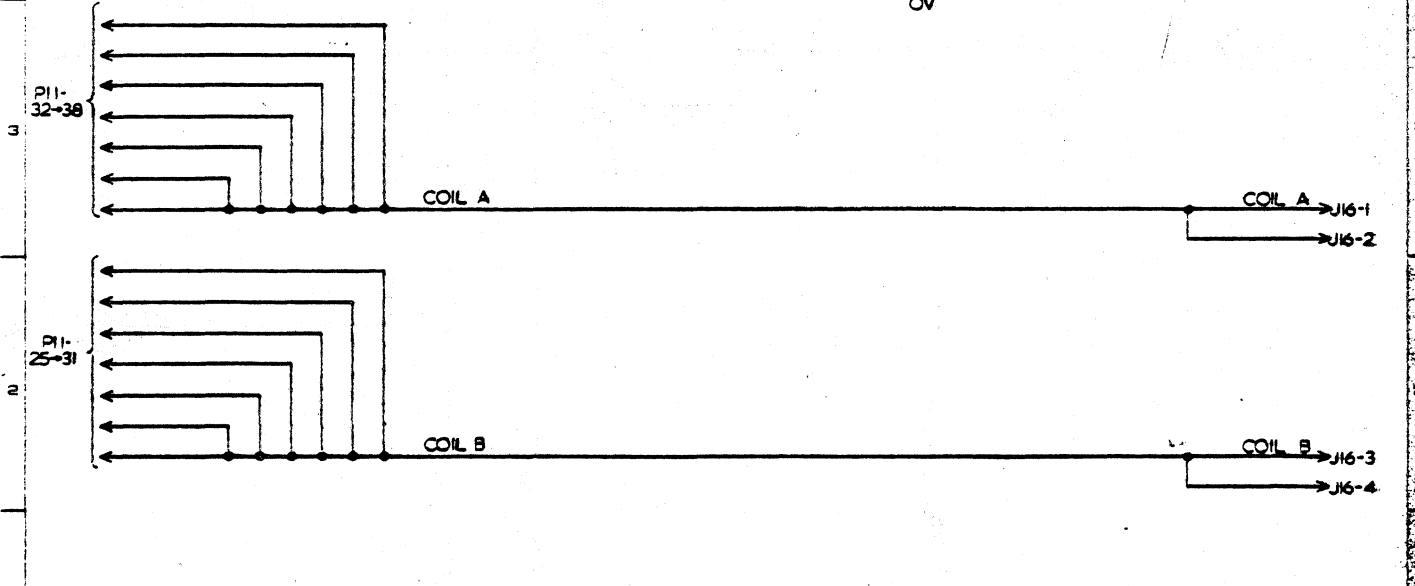
Burroughs			
BURROUGHS MACHINES LIMITED GLASGOW, SCOTLAND, U.K.			
PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.			
DOC. TYPE	DESIGN CONTROL	CHECKED	DATE
CLASS CODE	018	T 78 70	DATE
2 9520			
DRAWN	DATE	APPROVED	DATE
ON, RALLS	30/3/81	W.S.T.	DATE
TITLE		Schematic PRE-AMP 16V	
Dwg. No.		D-1888 8115	
Sheet		2 of 4	

INPUTS

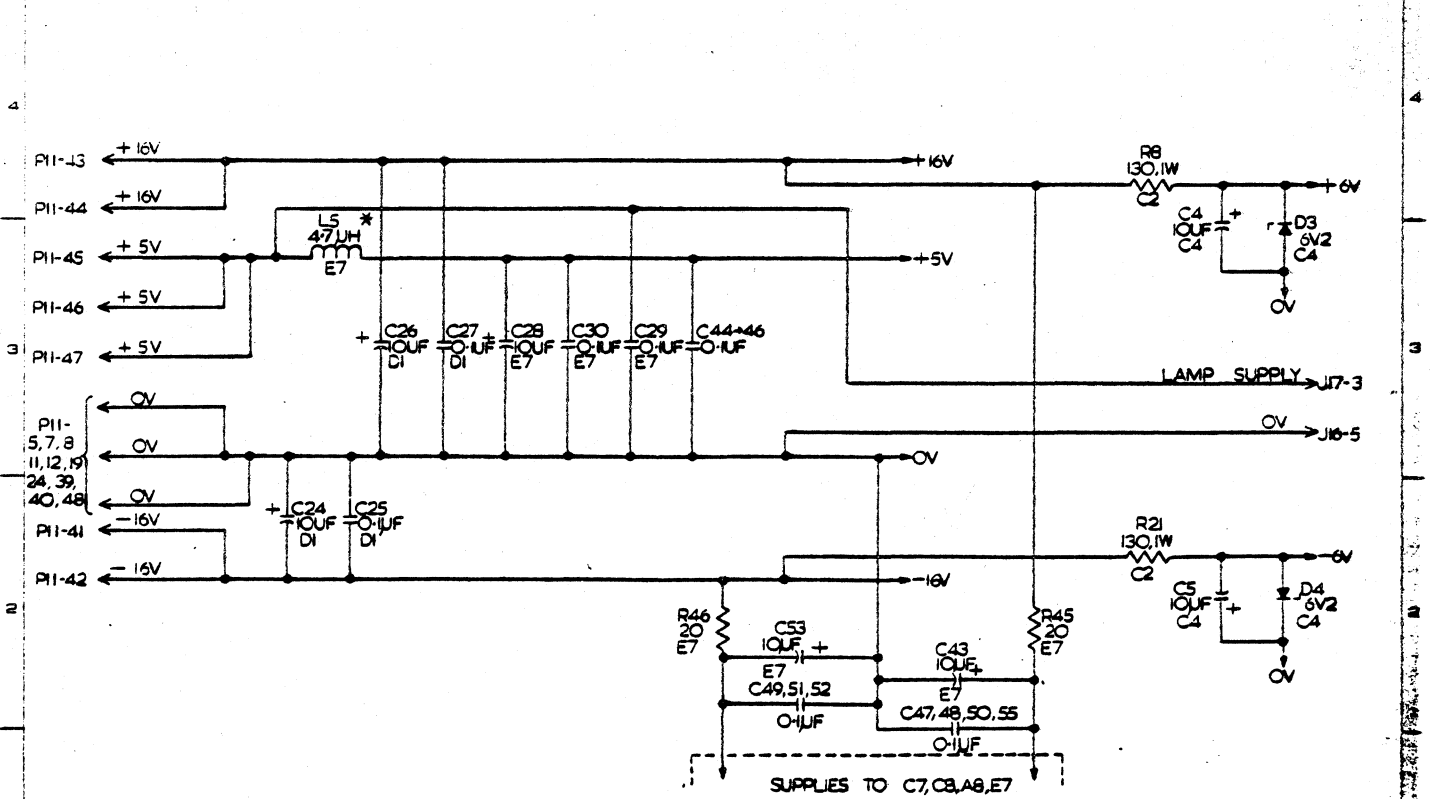
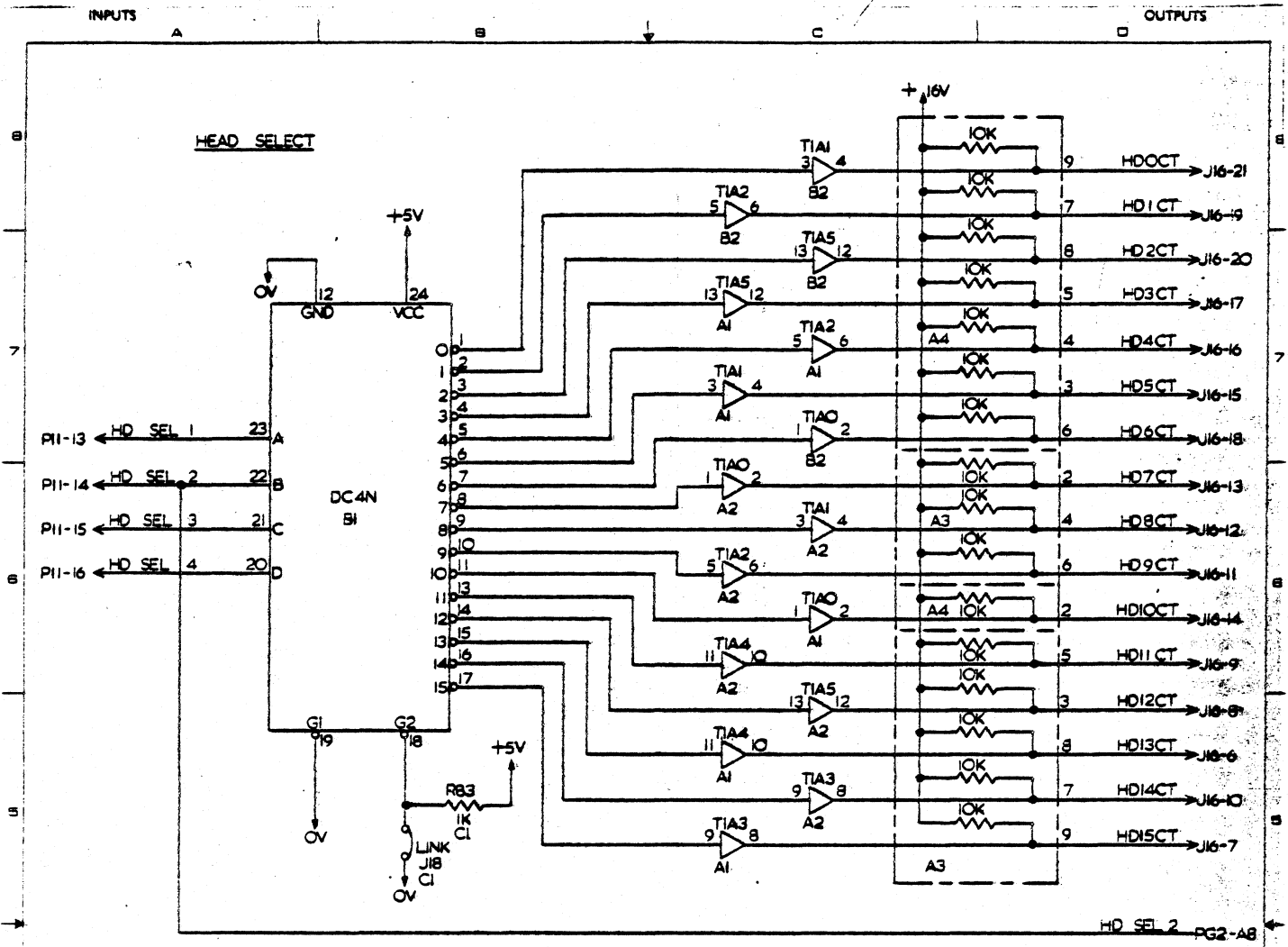
OUTPUTS



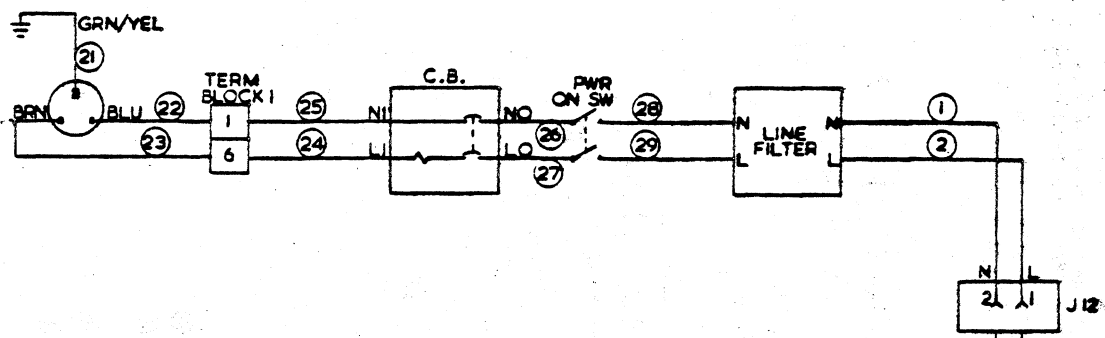
SERVO FEEDBACK PHASE AMPLIFIERS



D-1888 8115 3 of 4		BURROUGHS BURROUGHS BUSINESS LIMITED CLAREMONT, NEW JERSEY, U.S.A.		FILE SCHEMATIC PRE-AMP 16V	
DESIGNED 2 9520	DRAWN JON. RALLS	CHECKED 018	DATE 2/7/51	ORDER NO. D-1888 8115	SHEET 3 of 4
PROPRIETARY TO BURROUGHS, NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.					

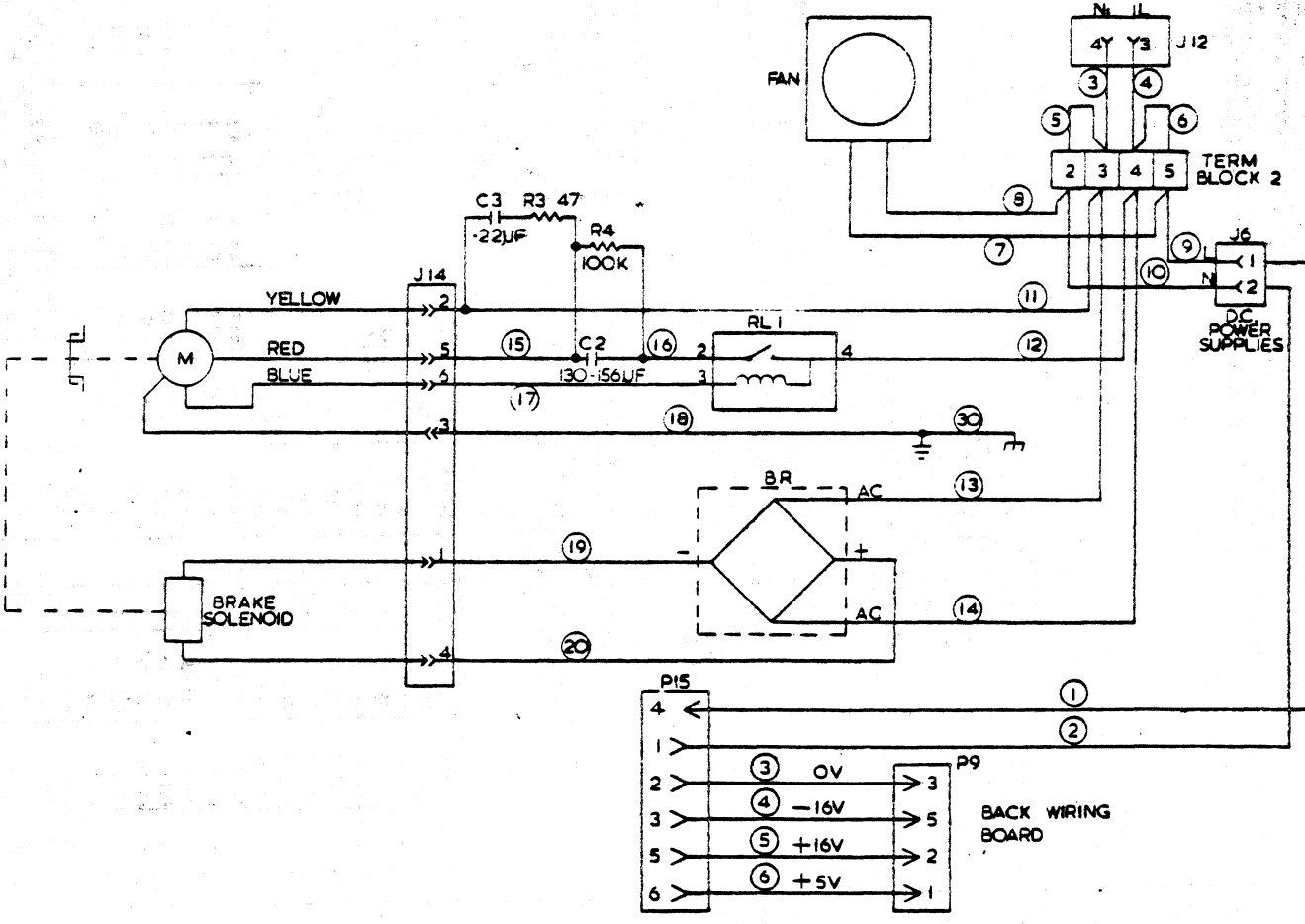
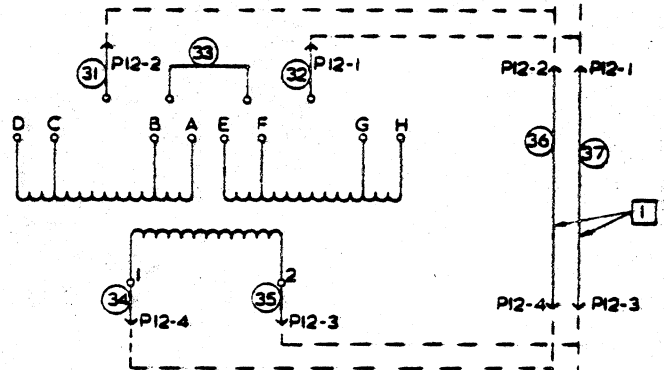


1888 8115		SHEETS		REVISED		 BURROUGHS SUPPLIES MACHINES LIMITED GLENROTH, SCOTLAND, U.K.		TITLE: SCHEMATIC PRE-AMP 16V DESIGNED BY: REIS CHECKED BY: HENNERA DATE: 12/18/54 DRAWN BY: JON. RALLS DATE: 2/2/55		D-1888 8115 4 of 4 REV: C	
-----------	--	--------	--	---------	--	--	--	--	--	---------------------------------	--



VOLTAGE	TRANSFORMER CONNECTION	
	INPUT	JUMPER
100	C AND B	C TO F AND B TO G
110	A AND C	A TO H AND C TO F
115	B AND D	B TO G AND D TO E
200	C AND G	B TO F
220	C AND H	A TO F
230	D AND G	B TO E
240	D AND G	A TO E
250	D AND H	A TO E

NOTES:—
 [] LINKS ARE FITTED IN PLACE OF TRANSFORMER ON 60HZ 120V UNITS.

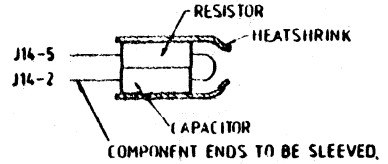


1889 0707 1889 0707	BURROUGHS BURROUGHS MACHINES LIMITED LEWISBURGH, SCOTLAND, U.K.	MAIN HARNESS SCHEMATIC		
	DOC. TYPE: 2-9520 CLASS CODE: 018 DESIGNED BY: K. WILLIAMS DATE: 25/6/82	DESIGN CONTROL: [Signature] CHECKED BY: [Signature] DATE: [Signature] APPROVED BY: [Signature] DATE: 12/11/82	DATE: [Signature] DATE: [Signature]	ORG. NO.: D 1889 0707 REV. 1 of 1
	PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.	K. WILLIAMS 25/6/82		
	1889 0707	63		

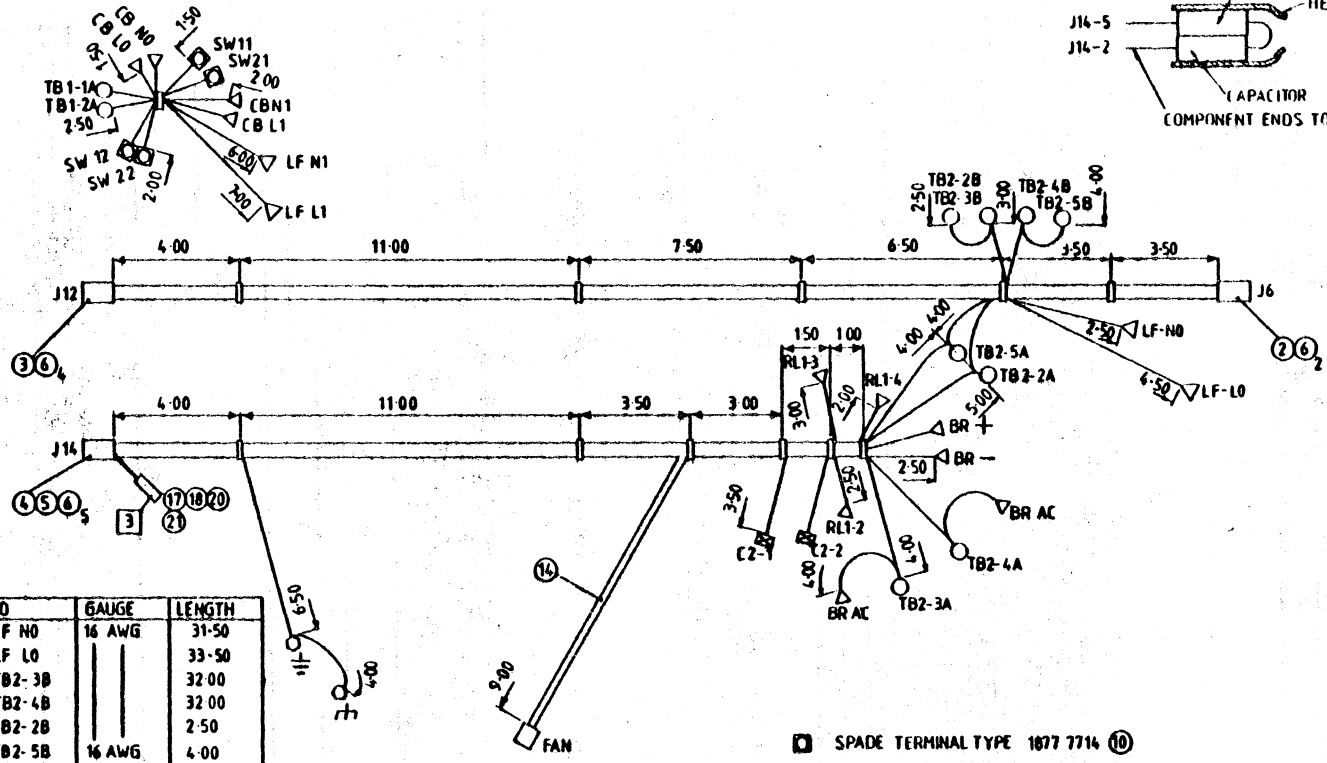
DO NOT SCALE IF IN DOUBT - ASK

NOTE

- 1. ALL DIMENSIONS ARE FROM CABLE TIES UNLESS OTHERWISE INDICATED
- 2. FOR SCHEMATIC SEE 1887 7621
- 3. SUPPRESSOR DETAIL



PREVIOUS EDITIONS
A INITIAL RELEASE
B CABLE LENGTHS ALTERED.
D TERMINAL TYPE 1879 7142 CHANGED TO TERMINAL TYPE 1111 6324 G.R. 04,5,6 MAINS CABLE DELETED. WIRE NOS 21,22,23 DELETED.
C GR. C6 SUPPRESSOR DETAIL ADDED. NOTE 3 ADDED. WIRE TABLE # GR B4: CAPACITOR TERMINAL REFERENCES ADDED.
D TERMINAL 21595053 CHANGED TO 18877191 J6 WAS J15.
E 05476 A.R. 201/244
 BY 12-73 1057 1746 TERMINAL TYPE 1472 3688



WIRE #	FROM	TO	GAUGE	LENGTH
1	J12-1	LF N0	16 AWG	31-50
2	J12-2	LF L0		33-50
3	J12-3	TB2-3B		32-00
4	J12-4	TB2-4B		32-00
5	TB2-3B	TB2-2B		2-50
6	TB2-4B	TB2-5B	16 AWG	4-00
7	TB2-5A	FAN	(14)	18-50
8	TB2-2A	FAN	(14)	18-50
9	J6-1	TB2-5A	16 AWG	11-00
10	J6-2	TB2-2A		12-00
11	J14-2	TB2-3A		28-00
12	RL1-4	TB2-4A		6-00
13	BR AC	TB2-3A		4-00
14	BR AC	TB2-4A		4-00
15	J14-5	C2-1		25-00
16	C2-2	RL1-2		5-00
17	J14-6	RL1-3	16 AWG	26-00
18	J14-3	⊕	(14)	10-50
19	J14-1	BR NEG	16 AWG	26-50
20	J14-4	BR POS		26-50

24	TB1-1A	CB M1	16 AWG	4-50
25	TB1-2A	CB L1		4-50
26	CB N0	SW 11		3-00
27	CB L0	SW 21		3-00
28	SW12	LF N		8-00
29	SW22	LF L	16 AWG	9-00
30	⊕	⊕	(14)	4-00

- ▣ SPADE TERMINAL TYPE 1877 7714 (10)
- RING TERMINAL TYPE 1879 7217 (11)
- ▤ FLAG TERMINAL TYPE 1472 3688
- △ SPADE TERMINAL TYPE 1111 6324 (9)
- FORK TERMINAL TYPE 1887 7191 (8)
- ▭ CABLE TIE 1112 0599 (13)

THIRD ANGLE PROJECTION

GEN	QUAL.	SPEC	183 0543 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED
HOLE DIAMETER TOLERANCES	XXX 10 ANGLES 1		
TOLERANCES UNLESS OTHERWISE SPECIFIED	XXX 10 ANGLES 1		
MATERIAL	DATE 11-3-51		
HEAT TREATMENT	DATE 11-3-51		
SURFACE TREATMENT	DATE 11-3-51		
DATE 11-3-51	DATE 11-3-51		
DATE 11-3-51	DATE 11-3-51		

DESIGNED BY: J. MURRAY
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 DATE: 11-3-51

Burroughs BRITISH MANUFACTURING LTD. GLENFORTH, IRELAND
 TITLE: 211 WIRING HARNESS
 D-1888 2530

Burroughs

GLENROTHES, SCOTLAND UK

PREP D. MUIR
CHKD D. MUIR

PROJ J. BENNIE
APPO A. STEWART

A- 1986 0288

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REV 2

PROPRIETARY TO BURROUGHS CORPORATION - NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS' ORDER OR PRIOR WRITTEN CONSENT.

TITLE
211 BACKPLANE SIGNALS

REV	CONTROL DOC & NO.	OFFSMM	CHKD	APPO & DATE	PAGE	REVISION DESCRIPTION
						U.C.C. 2-9520
A	DM	DM				INITIAL RELEASE
B	50978 JL	JL	JL			To introduce new signal CLK0 between J4812 and J5816
C	50979 JL	JL	JL	LJS 3/2/81		To change polarity of WRT EN signal
D	ECN 51625	NT	NH	NH 15/9/82	6 16 20	Pin A5: MR added. Pin A32: All added. Pin A13: MTR TST added. Pins A41-A44: (-16V), (-16V), (+16V), (+16V) added respectively.

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TITLE
211 BACKPLANE SIGNALS

UCC 2-9520

I/O1 J1 - 211

A		B	
1	(DMAEN)	1	HOST WRAP EN
2	POR DISABLE	2	POR
3	IO	3	I1
4	I2	4	I7
5	MTR VPE/	5	I4
6		6	I5
7	I7	7	I6
8		8	(HS-)
9	(DIRN+)	9	(DIRN+)
10		10	
11	Data FH3+	11	Data FH3-
12	Data FH2-	12	Data FH2+
13	Data FH1-	13	Data FH1+
14	Data FH0-	14	Data FH0+
15	PTH	15	H5
16	DIRN	16	SEND/
17	CONT	17	Data FH6+
18	CLKD	18	Data FH6-
19	Data FH5+	19	Data FH5-
20	Data FH4+	20	Data FH4-
21	Data TH7+	21	Data TH7-
22	Data TH6+	22	Data TH6-
23	PFH	23	RESET/
24	Data TH5+	24	Data TH5-
25	HPC	25	Data TH4+
26		26	Data TH4-
27	VPE/	27	Data TH3+
28	MTRENQ	28	Data TH3-
29	LPC EN/	29	I/O EN/
30	I2/I	30	R/W/u
31	LPC/	31	Data TH2+
32	CLR LPC/	32	Data TH2-
33	CLK LPC FH	33	Data TH1+
34	CLK LPC TH	34	Data TH1-



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REV D

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TITLE 211 BACKPLANE SIGNALS

UCC 2-9520

V/OI J1 - 211 (contd.)

<u>A</u>		<u>B</u>	
35	Data TH0→	35	Data TH0-
36	Data FH7→	36	Data FH7-
37	A4	37	A6
38	VPE	38	A5
39	O0	39	O4
40	O1	40	O5
41	O2	41	O6
42	O3	42	O7
43	(-16V)	43	(-16V)
44	(-16V)	44	(-16V)
45	(+16V)	45	(+16V)
46	(+16V)	46	(+16V)
47	+5V	47	+5V
48	+5V	48	+5V
49	Logic GND	49	Logic GND
50	Logic GND	50	Logic GND

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TITLE
211 BACKPLANE SIGNALS

U.C.C. 2-9520

1/02 32 - 211

A		B	
1	PCR DISABLE	1	HOST WRAP EN
2	CMAEN	2	POR
3	ENI/	3	MASK ADDR/
4	SWCP	4	(IS)
5	MTR VPE/	5	(IS)
6		6	
7	HPC-	7	HPC→
8	HS→	8	HS→
9	DIRN→	9	DIRN→
10	CONT-	10	CONT-
11	DATA FHP-	11	RAMSTR
12	DATA FHP→	12	RAM CLK
13	CLKD-	13	LOAD/
14	CLKD→	14	CMA BIT
15	PTH+	15	HS
16	DIRN	16	SEND/
17	CONT	17	R/W/DISK
18	SID CLK/	18	(GND)
19	CLKD	19	SID DATA
20	XFER COMP/	20	ERR IGNORE
21	u LAST SECTOR	21	PFH
22	u RESET/	22	
23	RESET/	23	HPC
24	DPC-	24	DPC→
25	DS→	25	
26	VPE/	26	DS-
27	MTRENO	27	
28	POR→	28	POR-
29	LPC EN/	29	I/FZEN/
30	D/1	30	R/W/u
31	DATA THP→	31	DATA THP-
32	LPC/	32	CLR LPC/
33	CLK LPC FH	33	
34	CLK LPC TH	34	
35	DISK INT	35	E SYN OUT



GLENROTHES, SCOTLAND UK

PREP D. MUIR

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APPR A. STEWART

A- 1986 0288

REV D

PAGE 5 OF 20

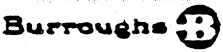
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TITLE 211 BACKPLANE SIGNALS

UCC 2-9520

2/02 J2 - 211 (contd)

<u>A</u>		<u>B</u>	
36		36	INDEX EN/
37	A4	37	A6
38	VPE	38	A5
39	00	39	04
40	01	40	05
41	02	41	06
42	03	42	07
43	(-16V)	43	(-16V)
44	(-16V)	44	(-16V)
45	(+16V)	45	(+16V)
46	(+16V)	46	(+16V)
47	+5V	47	+5V
48	+5V	48	+5V
49	Logic GND	49	Logic GND
50	Logic GND	50	Logic GND

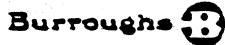
 GLENROTHES, SCOTLAND UK	PREP D. MUIR	PROJ J. BENNIE	A- 1386 0288 PAGE 6 OF 20	REV D
	CHKD D. MUIR	APPO A. STEWART		TITLE 211 BACKPLANE SIGNALS

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UCC 2-9520

CPU J3 - 211

<u>A</u>		<u>B</u>	
1	(Signal GND)	1	(Signal GND)
2	(Signal GND)	2	(Signal GND)
3	EN/	3	(Mask ADDR/)
4	(SWOP)	4	(I2)
5	MR	5	(I4)
6	(GND)	6	BEDZ
7	(GND)	7	GND
8		8	
9		9	
10		10	
11	TTL HIGH - ((UP SPEED))	11	(RAMSTR)
12	GND - ((UCOR 2/))	12	(RAM CLK)
13	GND - ((UCOR 1/))	13	(LOAD/)
14	TTL HIGH - ((DISK 1))	14	(DMABIT)
15	TTL HIGH - ((DISK 2))	15	(GND)
16	(GND)	16	(GND)
17	(R/W/DISK)	17	(GND)
18	(SIDCLK/)	18	(GND)
19	(GND)	19	(GND)
20		20	R/W EN/
21	(u LAST SECTOR)	21	((R/W EN/))
22	INDEX/	22	
23	(GND)	23	RESET /
24	SER EN/	24	
25	BED1	25	GND
26	OCC EN/	26	
27	(GND)	27	GND
28	OMA RAM EN/	28	I/O EN/
29	I2/2	29	I/F2 EN/
30	I2/1	30	R/W/u
31	A10	31	INIT EN/
32	A11	32	(E SYN OUT)
33		33	INDEX EN/
34	A9	34	A8



GLENROTHES, SCOTLAND UK

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CHKD D. MUIR

PROJ J. SENNIE
APPO A. STEWART

A- 1886 0238

REV 5

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TITLE
211 BACKPLANE SIGNALS

UCC 2-9520

CPU 33 - 211 (contd)

<u>A</u>		<u>B</u>	
33	A7	33	A3
36	A2	36	A1
37	A4	37	A6
38	A0	38	A5
39	00	39	04
40	01	40	03
41	02	41	06
42	03	42	07
43	(-16V)	43	(-16V)
44	(-16V)	44	(-16V)
45	(+16V)	45	(+16V)
46	(+16V)	46	(+16V)
47	+5V	47	+5V
48	+5V	48	+5V
49	Logic GND	49	Logic GND
50	Logic GND	50	Logic GND

Burroughs 	PROP D. MUIR	PROJ J. BENNIE	A. 1886 0298	REV D
	GLENROTHES, SCOTLAND UK	CHKD D. MUIR	APPR A. STEWART	PAGE 8 OF 20
PROPRIETARY TO BURROUGHS CORPORATION - NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS' ORDER OR PRIOR WRITTEN CONSENT			TITLE 211 BACKPLANE SIGNALS	

U.C.C. 2-9520

SEARCH JA - 211

1		8	
2	SIG GND	1	SIG GND
3	SIG GND	2	SIG GND
4	(MASK ADDR/)	3	(MASK ADDR/)
5	SWCP	4	(SWCP)
6	(GND)	5	
7	(BED2)	6	(GND)
8	(16)	7	(GND)
9	(17)	8	X/B
10	RAMSTR - SEARCH	9	A/B
11	NULL	10	RAM STR
12	SEARCH	11	CLKB
13	CLR RAM1	12	(LOAD/)
14		13	(DMA BIT)
15	CLOCK Z	14	GND
16	R/W/DISK	15	(R/W/DISK)
17	CLOCK Z	16	GND
18	(SU CLK/)	17	(GND)
19	OVFD/	18	XFER COMP/
20	ENS/	19	((PWR SUP RESET))
21	u LAST SECTOR	20	DMALG/
22	INIT/	21	u RESET/
23	INIT - SWCP	22	RESET/
24	(BED1)	23	(BED1)
25		24	OVF/
26	INC/	25	GND
27	SMINIT/	26	(GND)
28	(DMA RAM EN/)	27	
29	GND	28	SEARCH EN/
30	R/W/2	29	(R/W/u)
31	(INIT EN/)	30	(INIT EN/)
32	SER CLR/	31	OCCL
33	OCCLY	32	OCCLX
34	(A9)	33	(A8)
35	A7	34	A3



GLENROTHES, SCOTLAND UK

PREP D. MUIR

CHKD D. MUIR

PROJ J. BENNIE

APPRO A. STEWART

A- 1886 0288

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REV D

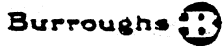
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TITLE 211 BACKPLANE SIGNALS

UCC 2-9520

SEARCH JA - 211 (contd.)

<u>A</u>		<u>B</u>	
36	A2	36	(ALL)
37	A4	37	A6
38	(A0)	38	A5
39	00	39	0A
40	01	40	05
41	02	41	06
42	03	42	07
43	-16V	43	-16V
44	-16V	44	-16V
45	+16V	45	+16V
46	+16V	46	+16V
47	+5V	47	+5V
48	+5V	48	+5V
49	Logic GND	49	Logic GND
50	Logic GND	50	Logic GND



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TITLE
211 BACKPLANE SIGNALS

UCC 2-9520

OMA J5 - 211

A		B	
1	WRT DATA	1	(Signal GND)
2	(Signal GND)	2	(Signal GND)
3	RD DATA	3	IO
4	GND	4	II
5	MASK ADDR/	5	I2
6	SWCP	6	I3
7	BEDI	7	I4
8	GND	8	I5
9	AKA	9	I6
10	A>B	10	I7
11	Q	11	RAM STR+SEARCH
12	ALL	12	RAM CLK
13	SEARCH	13	LOAD/
14	CLR RAM1	14	OMA BIT
15	CLOCK/2	15	PARALLEL/
16	GND	16	CLKB
17	CLOCK/2	17	R/W/DISK
18	(SD CLK/)	18	(GND)
19	EN5/	19	OVFD/
20		20	(R/W/EN/)
21	(U	21	OMA LG/
22	(INDEX/)	22	INIT/
23	INIT - SWCP	23	(RESET/)
24	GND	24	BEDI
25	BUFFER STATE	25	OVF/
26	GND	26	INC/
27	SMINIT/	27	SMINIT/
28	OMA RAMEN/	28	(GND)
29	GND	29	SEARCH EN/
30	B/2	30	R/W/u
31	A10	31	ENW/
32	(INIT EN/)	32	SER CLR/
33	(DCCY)	33	(DISK INIT)
34	A9	34	A8
35	A7	35	A3

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TITLE
211 BACKPLANE SIGNALS

UCC 2-9520

OMA J5 - 211 (contd.)

<u>2</u>		<u>3</u>	
36	A2	36	A1
37	A4	37	A6
38	A0	38	A5
39	00	39	04
40	01	40	05
41	02	41	06
42	03	42	07
43	(-16V)	43	(-16V)
44	(-16V)	44	(-16V)
45	(+16V)	45	(+16V)
46	(+16V)	46	(+16V)
47	+5V	47	+5V
48	+5V	48	+5V
49	Logic GND	49	Logic GND
50	Logic GND	50	Logic GND

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TITLE
211 BACKPLANE SIGNALS

u.c.c. 2-9520

DCC 26 - 211

A		B	
1	(Signal GND)	1	(Signal GND)
2	(Signal GND)	2	(Signal GND)
3	(GND)	3	WRT DATA
4	(GND)	4	RD DATA
5	(GND)	5	(GND)
6	(GND)	6	(GND)
7	(GND)	7	(GND)
8	(GND)	8	(GND)
9	(GND)	9	(GND)
10	(GND)	10	(GND)
11	(GND)	11	G
12	(GND)	12	(GND)
13	RD DATA 1	13	(GND)
14	WRT EN/	14	GND
15	CLOCK I	15	PARALLEL/
16	((BYTE SYNC/))	16	R/W/DISK
17	CLOCK 1	17	GND
18	SID CLK/	18	(GND)
19	SID DATA	19	(GND)
20	ERR IGNORE	20	(R/W EN/)
21		21	L
22	(INDEX/)	22	(GND)
23	(GND)	23	RESE 1/
24	(SER EN/)	24	
25	BUFFER STATE	25	
26	DCC EN/	26	INC/
27	SMINT/	27	(GND)
28	WRT DATA+CRC	28	(GND)
29	(GND)	29	(GND)
30		30	(Z/2)
31		31	EN/
32	RD DATA 2	32	E SYN CUT
33	SYNC	33	WT/
34	DCCY	34	DCCZ



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TITLE 211 BACKPLANE SIGNALS

UCC 2-7520

OCC 36 - 211 (contd)

<u>A</u>		<u>B</u>	
35		35	DISK INIT
36	TRIBIT INHIBIT	36	COCK
37	(A4)	37	(A6)
38	(A0)	38	(A5)
39	O0	39	O4
40	O1	40	O5
41	O2	41	(O6)
42	O3	42	(O7)
43	(-16V)	43	(-16V)
44	(-16V)	44	(-16V)
45	(+16V)	45	(+16V)
46	(+16V)	46	(+16V)
47	+5V	47	+5V
48	+5V	48	+5V
49	Logic GND	49	Logic GND
50	Logic GND	50	Logic GND



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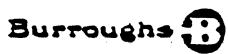
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TITLE 211 BACKPLANE SIGNALS

UCC 2-9520

D.C. J7 - 211

A		B	
1	SIGNAL GND	1	SIGNAL GND
2	SIGNAL GND	2	SIGNAL GND
3	TRIBIT ⁻	3	DATA 1
4	(GND)	4	DATA 2
5	(GND)	5	(GND)
6	(GND)	6	(GND)
7		7	INDEX/
8	HO SEL 1	8	
9	HO SEL 2	9	HO SEL 3
10	WRT TRANS	10	HO SEL 4
11	GTD WRT EN/	11	(GND)
12	TRIBIT PCT	12	(GND)
13	WRT EN/	13	RD DATA 1
14	PWR AMP SAT	14	PWR AMP SHT
15	PWR LAMP DRIVE	15	PWR LAMP RTN
16	CLOCK/1	16	FAIL LAMP DRIVE
17	CLOCK 1	17	(GND)
18	GND	18	(GND)
19	CLOCK/2	19	(GND)
20	CLOCK 2	20	R/W EN/
21	GND	21	(GND)
22	INDEX/	22	(GND)
23	WRT DATA RTN	23	RESET/
24	(SER EN/)	24	(GND)
25	(GND)	25	(GND)
26	(GND)	26	(GND)
27	(GND)	27	(GND)
28	WRT DATA-CRC	28	(GND)
29	(GND)	29	(GND)
30	02/2	30	R/W/u
31		31	
32	RD DATA 2	32	
33	SYNC	33	WTU/
34	(GND)	34	(GND)
35	(GND)	35	(GND)



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TITLE 211 BACKPLANE SIGNALS

UCC 2-9520

O.C. J7 - 211 (contd)

<u>A</u>		<u>B</u>	
36	TRISIT INHIBIT	36	
37	A4	37	A6
38	(A0)	38	A5
39	00	39	04
40	01	40	05
41	02	41	06
42	03	42	07
43	-16V	43	-16V
44	-16V	44	-16V
45	-16V	45	+16V
46	-16V	46	+16V
47	+5V	47	+5V
48	+5V	48	+5V
49	Logic GND	49	Logic GND
50	Logic GND	50	Logic GND

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TITLE: 211 BACKPLANE SIGNALS

UCC 2-9520

SERVO 38 - 211

2		3	
1	Signal GND	1	Signal GND
2	Signal GND	2	Signal GND
3	COIL A	3	COIL A
4	COIL B	4	COIL B
5		5	
6		6	
7		7	
8		8	
9		9	
10	90° PHASE	10	0° PHASE
11	270° PHASE	11	180° PHASE
12		12	
13	MTR TST	13	
14	PWR AMP SAT	14	PWR AMP SHT
15		15	
16		16	
17		17	
18		18	
19		19	
20		20	
21		21	
22	(GND)	22	(GND)
23	(GND)	23	RESET/
24	SER EN/	24	(GND)
25	(GND)	25	(GND)
26	(GND)	26	(GND)
27	(GND)	27	(GND)
28	(GND)	28	(GND)
29	LOGIC GND	29	(GND)
30	R/W	30	R/W/G
31	(GND)	31	(GND)
32	(GND)	32	(GND)
33	(GND)	33	(GND)
34	(GND)	34	(GND)
35	(GND)	35	(GND)



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TITLE 211 BACKPLANE SIGNALS


UCC 2-9520

SERVO J8 - 211 (contd)

A		B	
36	(GND)	36	(GND)
37	A2	37	A6
38	(A0)	38	A5
39	08	39	0A
40	01	40	05
41	02	41	06
42	03	42	07
43	-16V	43	-16V
44	-16V	44	-16V
45	+16V	45	+16V
46	+16V	46	+16V
47	+5V	47	+5V
48	+5V	48	+5V
49	Logic GND	49	Logic GND
50	Logic GND	50	Logic GND

POWER CONNECTOR J9 - 211

1	0V
2	-16V
3	+16V
4	+5V

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TITLE
211 BACKPLANE SIGNALS

UCC 2-9520

SDI CABLE J10 - 211

LA	Spare	2A	Spare
LB	Spare	2B	Spare
LC	Data TH0 -	2C	Data TH0 +
LD	Data TH1 -	2D	Data TH1 +
LE	Data TH2 -	2E	Data TH2 +
LF	Data TH3 -	2F	Data TH3 +
LG	PCR -	2G	PCR +
LH	Data TH3 -	2H	Data TH3 +
LI	OS -	2I	OS +
LJ	Data TH4 -	2J	Data TH4 +
LK	OPC -	2K	OPC +
LL	Data TH5 -	2L	Data TH5 +
LM	Data TH6 -	2M	Data TH6 +
LN	Data TH7 -	2N	Data TH7 +
LO	Data FH4 -	2P	Data FH4 +
LP	Data FH5 -	2Q	Data FH5 +
LQ	Data FH6 -	2R	Data FH6 +
LR	Data FH7 -	2S	Data FH7 +
LS	CLK0 -	2T	CLK0 +
LT	Data FH0 -	2U	Data FH0 +
LU	Data FH1 -	2V	Data FH1 +
LV	Data FH2 -	2W	Data FH2 +
LW	Data FH3 -	2X	Data FH3 +
LX	Data FHP -	2Y	Data FHP +
LY	CONT -	2Z	CONT +
LZ	DIRN -	2AA	DIRN +
LAA	HS -	2BB	HS +
LBB	HPC -	2CC	HPC +
LCC	Spare	2DD	Spare
LDD	Spare	2EE	Spare

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TITLE
211 BACKPLANE SIGNALS

U.C.C. 2-9520

PREAMP CONNECTOR J11 - 211

- A
- 1 TRIBIT PCT
- 2 Signal GND
- 3 INCEX/
- 4 Signal GND
- 5 Signal GND
- 6 TRIBIT
- 7 Signal GND
- 8 Signal GND
- 9 DATA 1
- 10 DATA 2
- 11 Signal GND
- 12 Signal GND
- 13 HD SEL 1
- 14 HD SEL 2
- 15 HD SEL 3
- 16 HD SEL 4
- 17 WRT TRANS
- 18 GTD WRT EN/
- 19 Signal GND
- 20 270° PHASE
- 21 180° PHASE
- 22 90° PHASE
- 23 0° PHASE
- 24 Signal GND
- 25 COIL B
- 26 COIL B
- 27 COIL B
- 28 COIL B
- 29 COIL B
- 30 COIL B
- 31 COIL B
- 32 COIL A
- 33 COIL A
- 34 COIL A
- 35 COIL A

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TITLE 211 BACKPLANE SIGNALS


UCC 2-9520


PREAMP CONNECTOR J11 - 211 (contd)

- 36 COIL A
- 37 COIL A
- 38 COIL A
- 39 Signal GND
- 40 Signal GND
- 41 -12V (-16V)
- 42 -12V (-16V)
- 43 +12V (+16V)
- 44 +12V (+16V)
- 45 +5V
- 46 +5V
- 47 +5V
- 48 Signal GND
- 49 LAMP Signal GND
- 50 LAMP Signal GND

POWER LAMP CONNECTOR J12 - 211

- 1 PWR Lamp RTN
- 2 PWR Lamp Drive
- 3 Fail Lamp Drive

 GLENROTHES, SCOTLAND UK		PREP	D. MUIR		PROJ	J. BENNIE		A- 1886 0296	REV	C
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PROPRIETARY TO BURROUGHS' CORPORATION - NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS' ORDER OR PRIOR WRITTEN CONSENT.					TITLE 211 INTERCONNECTION LISTS					
REV	CONTROL DOC & NO.	DFTSMN	CHKD	APPD & DATE	PAGE	REVISION DESCRIPTION				
						U.C.C. 2-9520				
A		DM	DM			INITIAL RELEASE.				
B	50978	JL	JL			To introduce a new signal CLK0 between J4B12 and J5B16				
C	50979	JL	JL	JJS 18/7/81		To change polarity of WRT EN signal				


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TITLE
211 INTERCONNECTION LISTS

U.C.C. 2-9520

A									
A0	J3A38	J4A38	J5A38	J6A38	J7A38	J8A38			
A1	J3B36	J4B36	J5B36						
A2	J3A36	J4A36	J5A36						
A3	J3B35	J4B35	J5B35						
A4	J1A37	J2A37	J3A37	J4A37	J5A37	J6A37	J7A37	J8A37	
A5	J1B36	J2B38	J3B38	J4B38	J5B38	J6B38	J7B38	J8B38	
A6	J1B37	J2B37	J3B37	J4B37	J5B37	J6B37	J7B37	J8B37	
A7	J3A35	J4A35	J5A35						
A8	J3B34	J4B34	J5B34						
A9	J3A34	J4A34	J5A34						
A10	J3A31	J5A31							
A < B	J4B9	J5A9							
A > B	J4B10	J5A10							
B									
BEM1	J3A25	J4A24	J4B24	J5B24					
BEM2	J3B6	J4A7	J5A7						
Buffer State	J5A25	J6A25							
C									
CLK0	J4B12	J5B16							
CLKD-	J101T	J2A13							
CLKD+	J102T	J2A14							
CONT-	J101Z	J2A10							
CONT+	J102Z	J2B10							
CONT	J1A17	J2A17							
CLKD	J1A18	J2A19							
CLR LPC/	J1A32	J2B32							
CLK LPCFH	J1A33	J2A33							
CLK LPCTH	J1A34	J2A34							
CLR RAM/	J4A13	J5A14							
CLOCK 2	J4A17	J5A17	J7A20						
CLOCK 2/	J4A15	J5A15	J7A19						
CS	J5A11	J6B11							
CLOCK/1	J6A15	J7A16							
CLOCK 1	J6A17	J7A17							
COIL A	J8A3	J8B3	J11/25	J11/26	J11/27	J11/28	J11/29	J11/30	J11/31
COIL B	J8A4	J8B4	J11/32	J11/33	J11/34	J11/35	J11/36	J11/37	J11/38


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TITLE
211 INTERCONNECTION LISTS

U.C.C. 2-9520

D									
DPC+	J10/2K	J2B24							
DPC-	J10/1K	J2A24							
DS+	J10/2I	J2A25							
DS-	J10/1I	J2B26							
DIRN-	J10/1AA	J2A9							
DIRN+	J10/2AA	J1A9	J1B9	J2B9					
DMA EN	J1A1	J2A2							
DIRN	J1A16	J2A16							
D0	J1A39	J2A39	J3A39	J4A39	J5A39	J6A39	J7A39	J8A39	
D1	J1A40	J2A40	J3A40	J4A40	J5A40	J6A40	J7A40	J8A40	
D2	J1A41	J2A41	J3A41	J4A41	J5A41	J6A41	J7A41	J8A41	
D3	J1A42	J2A42	J3A42	J4A42	J5A42	J6A42	J7A42	J8A42	
D4	J1B39	J2B39	J3B39	J4B39	J5B39	J6B39	J7B39	J8B39	
D5	J1B40	J2B40	J3B40	J4B40	J5B40	J6B40	J7B40	J8B40	
D6	J1B41	J2B41	J3B41	J4B41	J5B41	J6B41	J7B41	J8B41	
D7	J1B42	J2B42	J3B42	J4B42	J5B42	J6B42	J7B42	J8B42	
DISK INIT	J2A35	J5B33	J6B35						
DMA BIT	J2B14	J3B14	J4B14	J5B14					
DCC EN/	J3A26	J6A26							
DMA RAM EN/	J3A28	J4A28	J5A28						
DMA LG/	J4B21	J5B21							
DCC X	J4B33	J6B36							
DCC Y	J4A33	J5A33	J6A34						
DCC Z	J4B32	J6B34							
DATA 1	J7B3	J11/9							
DATA 2	J7B4	J11/10							
E									
ENI/	J2A3	J3A3							
ERR IGNORE	J2B20	J6A20							
ESYN OUT	J2B35	J3B32	J6B32						
EN5/	J4A20	J5A19							
EN4/	J5B31	J6B31							


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TITLE
 211 INTERCONNECTION LISTS

U.C.C. 2-9520

F		
DATA FH0-	J10/1U	J1A14
DATA FH1-X	J10/1V	J1A13
DATA FH2-	J10/1W	J1A12
DATA FH3-	J10/1X	J1B11
DATA FH4-	J10/1P	J1B20
DATA FH5-	J10/1Q	J1B19
DATA FH6-	J10/1R	J1B18
DATA FH7-	J10/1S	J1B36
DATA FHP-	J10/1Y	J2A11
DATA FH0+	J10/2U	J1B14
DATA FH1+	J10/2V	J1B13
DATA FH2+	J10/2W	J1B12
DATA FH3+	J10/2X	J1A11
DATA FH4+	J10/2P	J1A20
DATA FH5+	J10/2Q	J1A19
DATA FH6+	J10/2R	J1B17
DATA FH7+	J10/2S	J1A36
DATA FHP+	J10/2Y	J2A12
Fail Lamp Drive	J7B16	J12/3

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U.C.C. 2-9520

G

Logic GND	J1A49	J1A50	J1B49	J1B50	J2A49	J2A50	J2B49	J2B50		
	J3A49	J3A50	J3B49	J3B50						
	J4A49	J4A50	J4B49	J4B50	J5A49	J5B49	J5A50	J5B50		
	J6A49	J6A50	J6B49	J6B50						
	J7A49	J7A50	J7B49	J7B50						
Signal GND	J3A1	J3A2	J3B1	J3B2	J4A1	J4A2	J4B1	J4B2		
	J5A2	J5B1	J5B2	J6A1	J6B1	J6A2	J6B2			
	J7A1	J7B1	J7A2	J7B2						
	J8A1	J8B1	J8A2	J8B2						
	J11/4	J11/5	J11/7	J11/8	J11/11	J11/12	J11/19	J11/24	J11/39	
	J11/40	J11/48	J11/49	J11/50						
GND	J2B18	J3A6	J3A7	J3A12	J3A13	J3A16	J3A19	J3A23	J3A27	J3B7
	J3B15	J3B16	J3B17	J3B18	J3B19	J3B25	J3B26	J3B27	J4A6	J4B6
	J4B7	J4B15	J4B17	J4B18	J4A29	J4B26	J4B27	J5A4	J5A8	J5A16
	J5A24	J5A26	J5A29	J5B18	J5B28					
	J6A3	J6A4	J6A5	J6B5	J6A6	J6B6	J6A7	J6B7	J6A8	J6B8
	J6A9	J6B9	J6A10	J6B10	J6A11	J6A12	J6B12	J6B13	J6B14	J6B17
	J6B18	J6B19	J6B22	J6B23	J6B27	J6B28	J6A29	J6B29		
	J7A4	J7A5	J7B5	J7A6	J7B6	J7B11	J7B12	J7B17	J7A18	
	J7B18	J7B19	J7A21	J7B21	J7B22	J7B24	J7A25	J7B25	J7A26	
	J7B26	J7A27	J7B27	J7B28	J7A29	J7B29	J7A34	J7B34		
	J7A35	J7B35	J8A22	J8B22	J8A23	J8B24	J8A25	J8B25		
	J8A26	J8B26	J8A27	J8B27	J8A28	J8B28	J8A29	J8B29		
	J8A31	J8B31	J8A32	J8B32	J8A33	J8B33	J8A34	J8B34		
	J8A35	J8B35	J8A36	J8B36	J9/1					

GTD WRT EN J7A11 J11/18


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TITLE
211 INTERCONNECTION LISTS

U.C.C. 2-9520

H						
HS-	J10/1B8	J1B8	J2A8			
HS+	J10/2B8	J2B8				
HPC-	J10/1CC	J2A7				
HPC+	J10/2CC	J2B7				
HPC	J1A25	J2B23				
HOST WRAP EN	J1B1	J2B1				
HS	J1B15	J2B15				
HD SEL 1	J7A8	J11/13				
HD SEL 2	J7A9	J11/14				
HD SEL 3	J7B9	J11/15				
HD SEL 4	J7B10	J11/16				
I						
I0	J1A3	J5B3				
I1	J1B3	J5B4				
I2	J1A4	J3B4	J5B5			
I3	J1B4	J2B4	J5B6			
I4	J1B5	J3B5	J5B7			
I5	J1B6	J2B5	J5B8			
I6	J1B7	J4A8	J5B9			
I7	J1A7	J4A9	J5B10			
I/O EN/	J1B29	J3B28				
I/F2EN/	J2B29	J3B29				
INDEX EN/	J2B36	J3B33				
INDEX/	J3A22	J5A22	J6A22	J7B7	J7A22	J11/3
INIT ENABLE/	J3B31	J4A31	J4B31	J5A32		
INIT/	J4A22	J5B22				
INIT + SWOP	J4A23	J5A23				
INC/	J4A26	J5B26	J6B26			

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TITLE
211 INTERCONNECTION LISTS

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L
 LPC EN/ J1A29 J2A29
 LPC/ J1A31 J2A32
 LOAD/ J2B13 J3B13 J4B13 J5B13
 L J5A21 J6B21

M
 MTR VPE/ J1A5 J2A5
 MTR EN0 J1A28 J2A27
 MASK ADDR/ J2B3 J3B3 J4A3 J4B3 J5A5

N
 NULL J4A11 J5A12

O
 OVFD/ J4A19 J5B19
 OV/ J4B25 J5B25

P
 POR+ J10/2G J2A28
 POR- J10/1G J2B28
 POR DISABLE J1A2 J2A1
 PTH J1A15 J2A15
 PFH J1A23 J2B21
 POR J1B2 J2B2
 PARALLEL/ J5B15 J6B15
 POWER AMP SAT J7A14 J8A14
 POWER LAMP RTN J7B15 J12/4
 PHASE 0° J8B10 J11/23
 PHASE 90° J8A10 J11/22
 PHASE 180° J8B11 J11/21
 PHASE 270° J8A11 J11/20
 POWER AMP SHT J7B14 J8B14
 POWER LAMP DRIVE J7A15 J12/5

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TITLE
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R


RESET/	J1B23	J2A23	J3B23	J4B23	J5B23	J6B23	J7B23	J8B23
R/W/U	J1B30	J2B30	J3B30	J4B30	J5B30	J7B30	J8B30	
RAMSTR	J2B11	J3B11	J4B11					
RAM CLK	J2B12	J3B12	J5B12					
R/W/DISK	J2B17	J3A17	J4A16	J4B16	J5B17	J6B16		
R/W EN/	J3B20	J3B21	J5B20	J6B20	J7B20			


RAMSTR + SEARCH

RAMSTR + SEARCH	J4A10	J5B11						
RD DATA	J5A3	J6B4						
RD DATA 1	J6A13	J7B13						
RD DATA 2	J6A32	J7A32						

S

SEND/	J1B16	J2B16						
SWOP	J2A4	J3A4	J4A4	J4B4	J5A6			
SID CLK/	J2A18	J3A18	J4A18	J5A18	J6A18			
SID DATA	J2B19	J6A19						
SER EN/	J3A24	J6A24	J7A24	J8A24				
SEARCH	J4A12	J5A13						
SEARCH EN/	J4B29	J5B29						
SER CLR/	J4A32	J5B32						
SMINIT/	J5A27	J5B27	J6A27	J4A27				
SYNC	J6A33	J7A33						

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<p>T</p> <table border="0"> <tr><td>DATA TH0+</td><td>J10/2C</td><td>J1A35</td></tr> <tr><td>DATA TH0-X</td><td>J10/1C</td><td>J1B35</td></tr> <tr><td>DATA TH1+</td><td>J10/2D</td><td>J1B33</td></tr> <tr><td>DATA TH1-</td><td>J10/1D</td><td>J1B34</td></tr> <tr><td>DATA TH2+</td><td>J10/2E</td><td>J1B31</td></tr> <tr><td>DATA TH2-</td><td>J10/1E</td><td>J1B32</td></tr> <tr><td>DATA TH3+</td><td>J10/2H</td><td>J1B27</td></tr> <tr><td>DATA TH3-</td><td>J10/1H</td><td>J1B28</td></tr> <tr><td>DATA TH4+</td><td>J10/2J</td><td>J1B25</td></tr> <tr><td>DATA TH4-</td><td>J10/1J</td><td>J1B26</td></tr> <tr><td>DATA TH5+</td><td>J10/2L</td><td>J1A24</td></tr> <tr><td>DATA TH5-</td><td>J10/1L</td><td>J1B24</td></tr> <tr><td>DATA TH6+</td><td>J10/2M</td><td>J1A22</td></tr> <tr><td>DATA TH6-</td><td>J10/1M</td><td>J1B22</td></tr> <tr><td>DATA TH7+</td><td>J10/2N</td><td>J1A21</td></tr> <tr><td>DATA TH7-</td><td>J10/1N</td><td>J1B21</td></tr> <tr><td>DATA THP+</td><td>J10/2F</td><td>J2A31</td></tr> <tr><td>DATA THP-</td><td>J10/1F</td><td>J2B31</td></tr> <tr><td colspan="3"> </td></tr> <tr><td>TRIBIT INHIBIT</td><td>J6A36</td><td>J7A36</td></tr> <tr><td>TRIBIT</td><td>J7A3</td><td>J11/6</td></tr> <tr><td>TRIBIT PCT</td><td>J7A12</td><td>J11/1</td></tr> <tr><td colspan="3"> </td></tr> <tr><td colspan="3">V</td></tr> <tr><td>VPE/</td><td>J1A27</td><td>J2A26</td></tr> <tr><td>VPE</td><td>J1A38</td><td>J2A38</td></tr> <tr><td colspan="3"> </td></tr> <tr><td colspan="3">W</td></tr> <tr><td>WRT DATA</td><td>J5A1</td><td>J6B3</td></tr> <tr><td>WRT EN</td><td>J6B14</td><td>J7A13</td></tr> <tr><td>WRT DATA + CRC</td><td>J6A28</td><td>J7A28</td></tr> <tr><td>WTI/</td><td>J6B33</td><td>J7B33</td></tr> <tr><td>WRT TRANS</td><td>J7A10</td><td>J11/17</td></tr> <tr><td colspan="3"> </td></tr> <tr><td colspan="3">X</td></tr> <tr><td>XFER COMP</td><td>J2A20</td><td>J4B19</td></tr> </table>					DATA TH0+	J10/2C	J1A35	DATA TH0-X	J10/1C	J1B35	DATA TH1+	J10/2D	J1B33	DATA TH1-	J10/1D	J1B34	DATA TH2+	J10/2E	J1B31	DATA TH2-	J10/1E	J1B32	DATA TH3+	J10/2H	J1B27	DATA TH3-	J10/1H	J1B28	DATA TH4+	J10/2J	J1B25	DATA TH4-	J10/1J	J1B26	DATA TH5+	J10/2L	J1A24	DATA TH5-	J10/1L	J1B24	DATA TH6+	J10/2M	J1A22	DATA TH6-	J10/1M	J1B22	DATA TH7+	J10/2N	J1A21	DATA TH7-	J10/1N	J1B21	DATA THP+	J10/2F	J2A31	DATA THP-	J10/1F	J2B31				TRIBIT INHIBIT	J6A36	J7A36	TRIBIT	J7A3	J11/6	TRIBIT PCT	J7A12	J11/1				V			VPE/	J1A27	J2A26	VPE	J1A38	J2A38				W			WRT DATA	J5A1	J6B3	WRT EN	J6B14	J7A13	WRT DATA + CRC	J6A28	J7A28	WTI/	J6B33	J7B33	WRT TRANS	J7A10	J11/17				X			XFER COMP	J2A20	J4B19
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02/1	J1A30	J2A30	J3A30					
+16	J1A45	J1A46	J1B45	J1B46	J2A45	J2A46	J2B45	J2B46
+5	J1A47	J1A48	J1B47	J1B48	J2A47	J2A48	J2B47	J2B48
-5								
-16	J1A43	J1A44	J1B43	J1B44	J2A43	J2A44	J2B43	J2B44
u LAST SECTOR		J2A21	J3A21	J4A21				
U RESET/	J2A22	J4B22						
02/2	J3A29	J4A30	J5A30	J6B30	J7A30	J8A30		
+16	J1A45	J1A46	J1B45	J1B46				
	J2A45	J2A46	J2B45	J2B46				
	J3A45	J3A46	J3B45	J3B46				
	J4A45	J4A46	J4B45	J4B46				
	J5A45	J5A46	J5B45	J5B46				
	J6A45	J6A46	J6B45	J6B46				
	J7A45	J7A46	J7B45	J7B46				
	J8A45	J8A46	J8B45	J8B46				
	J9	J1143	J1144					
+5	J1A47	J1A48	J1B47	J1B48				
	J2A47	J1A48	J2B47	J2B48				
	J3A47	J1A48	J3B47	J3B48				
	J4A47	J4A48	J4B47	J4B48				
	J5A47	J5A48	J5B47	J5B48				
	J6A47	J6A48	J6B47	J6B48				
	J7A47	J7A48	J7B47	J7B48				
	J8A47	J8A48	J8B47	J8B48				
	J9	J1145	J1146	J1147				
-16	J1A43	J1A44	J1B43	J1B44				
	J2A43	J2A44	J2B43	J2B44				
	J3A43	J3A44	J3B43	J3B44				
	J4A43	J4A44	J4B43	J4B44				
	J5A43	J5A44	J5B43	J5B44				
	J6A43	J6A44	J6B43	J6B44				
	J7A43	J7A44	J7B43	J7B44				
	J8A43	J8A44	J8B43	J8B44				
	J9	J1141	J1142					



GLENROTHES, SCOTLAND UK

PREP
N. TAYLOR
CHKD
N. HUNTER

PROJ
I. FRASER
APPO

A- 1889 0285

REV
A

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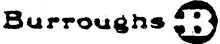
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TITLE
PRELIMINARY INSTALLATION INSTRUCTIONS

REV	CONTROL DOC & NO.	OFF	TS	MN	CHKD	APPO & DATE	PAGE	REVISION DESCRIPTION
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J.C.C. 4-0207

A	ECN SIC25	NT	NH	NH		15/9/82		INITIAL RELEASE
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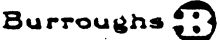
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TITLE
 PRELIMINARY INSTALLATION INSTRUCTIONS

UCC 4-0207

UNPACKING AND INSTALLATION INSTRUCTIONS FOR
39493-20/39493-80 DISK DRIVES (LEVEL 7)

1. Remove plastic straps if not already removed. (See figure 1)
2. Remove wooden top cover.
3. Unscrew the eight screws from the wooden side panel A and remove the wooden side panel. (See figure 1)
4. Use the side removed in step 3 as a ramp to roll the machine off the base.
5. Remove the T & F document from the wooden base.
6. Remove the plastic bag from the drive.
7. Remove protective plastic sheet from Top Cover.
8. Remove Top Cover using the following procedure:
 - (a) Lift the rear of the top cover.
 - (b) Lift the left hand front corner and pivot the cover on the right hand stud until the cover is clear of the red rocker switch.
 - (c) Pull the cover upwards clear of the drive.
9. Remove the perforated top cover, if fitted, by unscrewing the four securing screws.
10. Remove the left and right side panels.
11. Pull the card cage assembly towards the front of the drive until the rear locating shaft is clear of the rear cross support. Pivot the card cage assembly into the upright position and slide rearwards until the rear locating shaft is fully engaged in the hole to retain the card cage in the upright position.
12. Remove the three module retaining collars located adjacent to the rubber shock mounts by removing the bolts which lock the module mounting bracket to the frame. Retain the three collars with the machine. These will be required for de-installation. (See figure 2).

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TITLE
PRELIMINARY INSTALLATION INSTRUCTIONS

UCC 4-0207

- Remove three short belt guard securing screws and check that the belt is fitted correctly.

CAUTION

In removing the belt guard, care must be taken not to disturb the black lamp cover.

- Replace belt guard and secure with three screws.
- Slacken the restraining plate locking nut, pull the motor restraining plate away from the motor and re-tighten the locking nut, or, if wooden block is in place, remove block and keep with drive as it will be necessary for de-installation.
- Check that the socketed ICs are seated correctly in their sockets.
- Ensure that the PCBs are seated correctly in the card cage.
- Check that the wire links of the I/O2, Data Channel, DCC and Microprocessor boards are configured as per ATI 130601 Rev.2.
- Ensure that the transformer tapplings are correctly connected for the input line voltage and frequency.
- Note the information contained on the WARNING label affixed to the electrical top panel.


POWER ON CHECKS

- Check that the circuit breaker, located as shown in figure 2 is set to the ON position.
- On the Preamp PCB carefully remove the left hand side of P16, pins 1 to 17 (viewed facing the component side of the PCB) from J16. See figure 3.
- Apply power to the drive by depressing the '1' side of the power on rocker switch.
- Check for binding or unusual noises that may indicate head to disk interference.

Check that the optical transducer lamp is illuminated (see figure 3).

If 'ANY' indication of trouble in present turn the drive 'OFF'.
- Measure the D.C. Supplies on the card cage backpanel to be within the following specifications:

J1 pins 49, 50 to J1 pins 47, 48 +5V \pm 5%
 J1 pins 49, 50 to J1 pins 45, 46 +15V \pm 10%
 J1 pins 49, 50 to J1 pins 43, 44 -15V \pm 10%

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PRELIMINARY INSTALLATION INSTRUCTIONS

UCC 4-0207

26. Check that the card cage fan and the power supply fan are functioning.
27. Run the drive in this conditions for 'one' hour to purge the storage module.
28. Power off the drive.
29. Remove the actuator transit lock and re-insert with tapered end facing away from the casting (see figure 3).
30. Carefully reconnect P16 to J16 on the Preamplifier PCB.
31. Lower the card cage. This is a reversal of paragraph 11.
32. Replace the left side panel, right side panel, perforated top cover and top panel.
33. Connect I/O cable to the host.
34. Switch on power and the drive should now be ready to receive a power on reset from the host.

PROPRIETARY TO BURROUGHS CORPORATION - NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS' ORDER OR PRIOR WRITTEN CONSENT.

TITLE
 PRELIMINARY INSTALLATION INSTRUCTIONS

FIGURE 1.

U.C.C. 4-0207

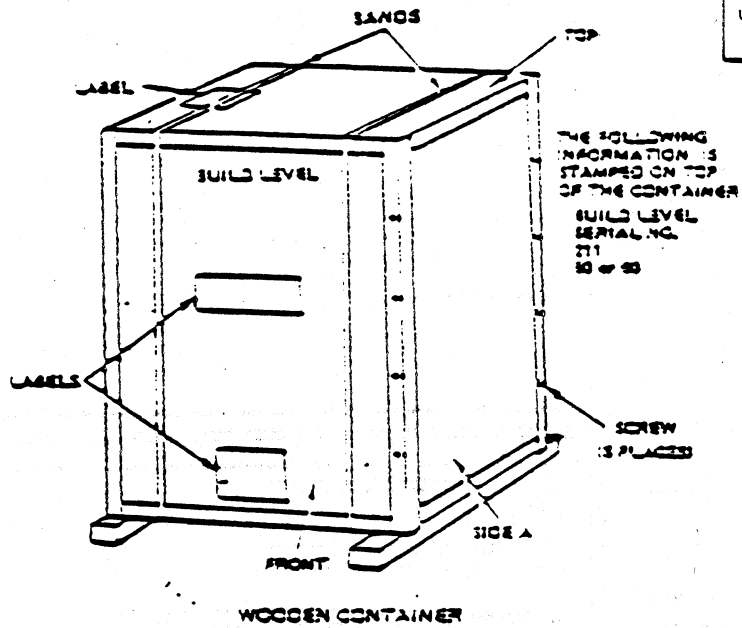
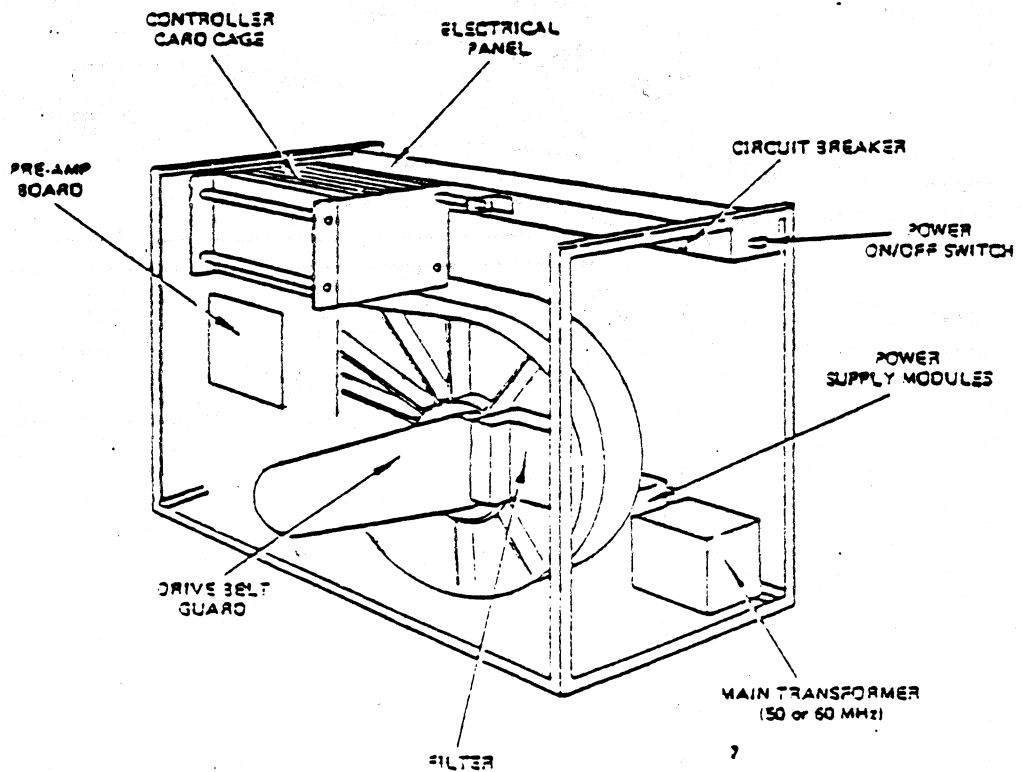
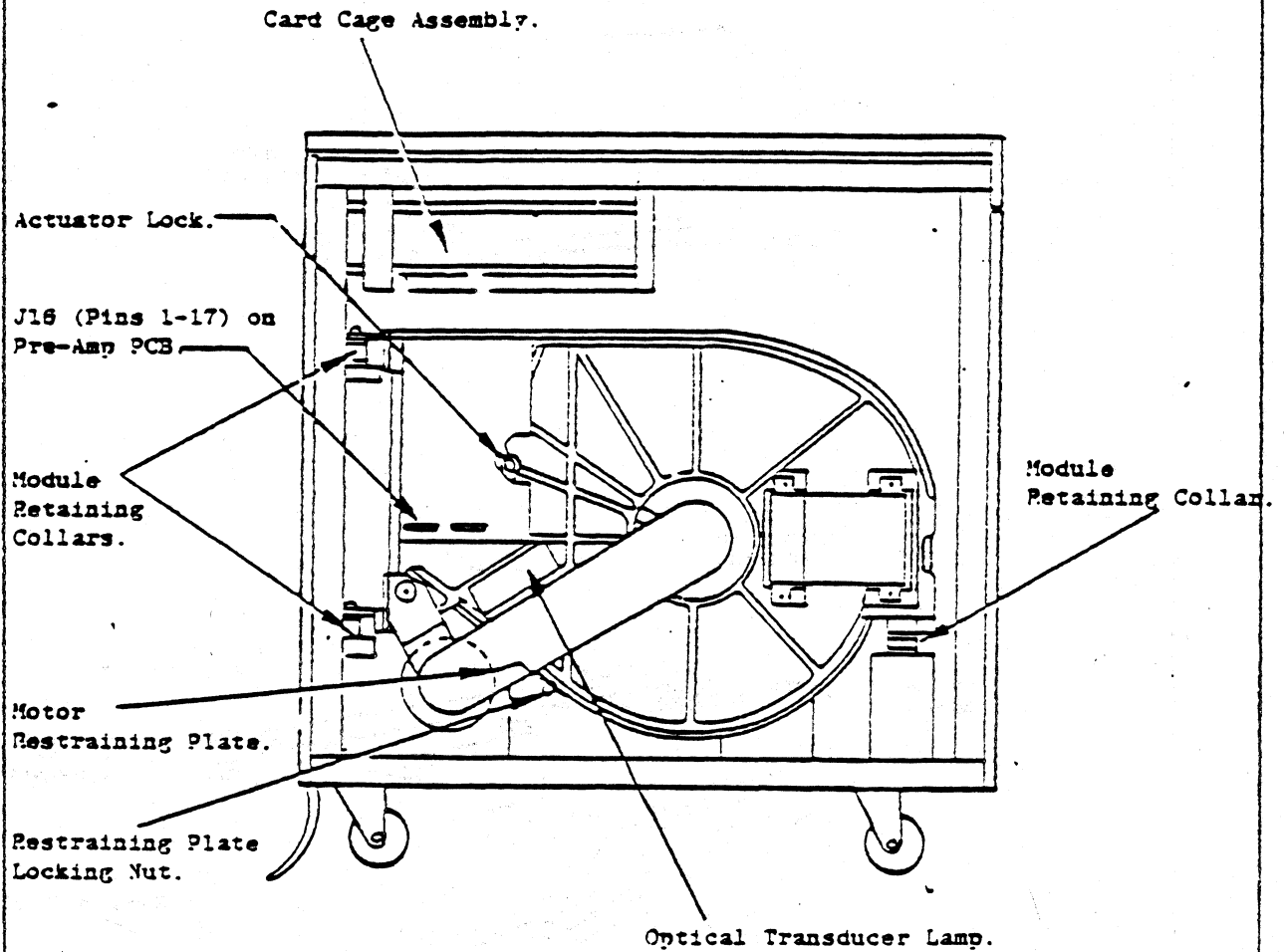


FIGURE 2.



U.C.C. 4-0207

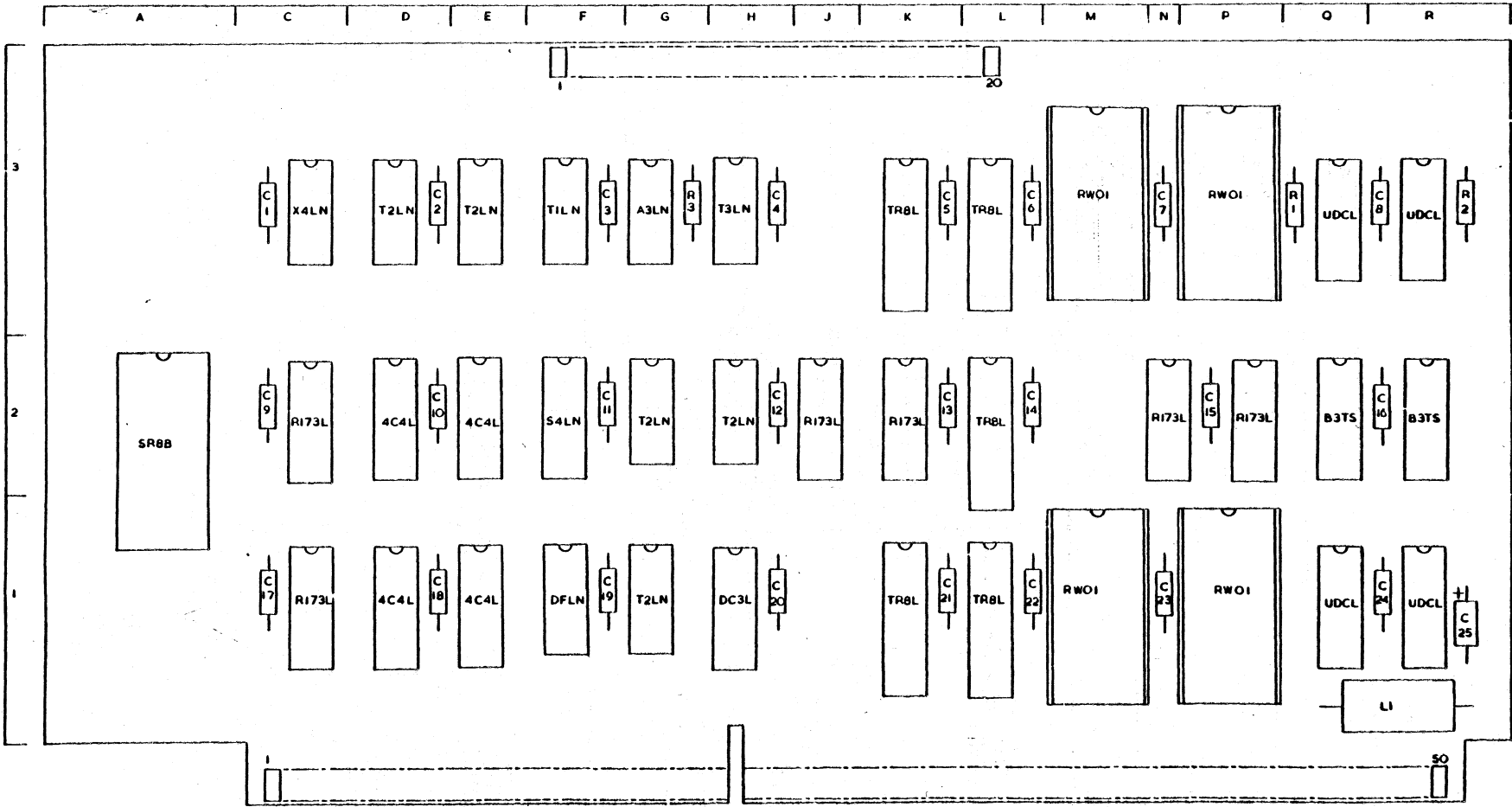
FIGURE 3.



DO NOT SCALE IF IN DOUBT - ASK

E-828 1029

REVISIONS
A INITIAL RELEASE



REV	DATE	BY	CHKD	APP'D	DESCRIPTION
1					INITIAL RELEASE

GEN. DIM.	SPEC. THIS DIM. AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED
FRONT VIEW	FRONT VIEW
TOP VIEW	TOP VIEW
RIGHT SIDE VIEW	RIGHT SIDE VIEW
LEFT SIDE VIEW	LEFT SIDE VIEW
REAR VIEW	REAR VIEW
ISOMETRIC VIEW	ISOMETRIC VIEW

DATE	4/11/54
BY	J. J. HAY
CHKD	J. J. HAY
APP'D	J. J. HAY
REVISED	
REVISIONS	
DATE	
BY	
CHKD	
APP'D	

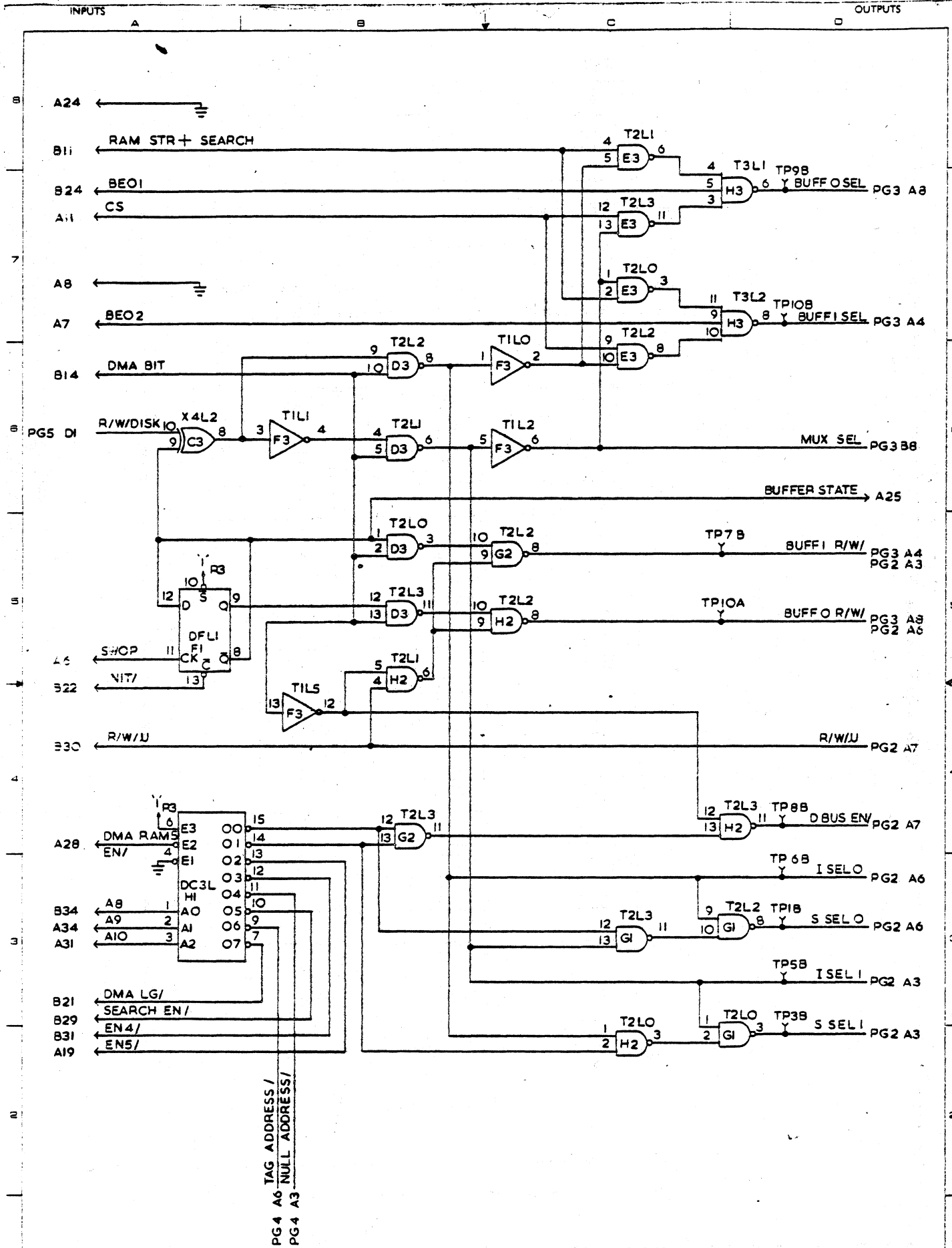
Burrhead

BURREAD MACHINE TOOL COMPANY, BOSTON, MASS.

DIA ASSEMBLY

E-828 1029

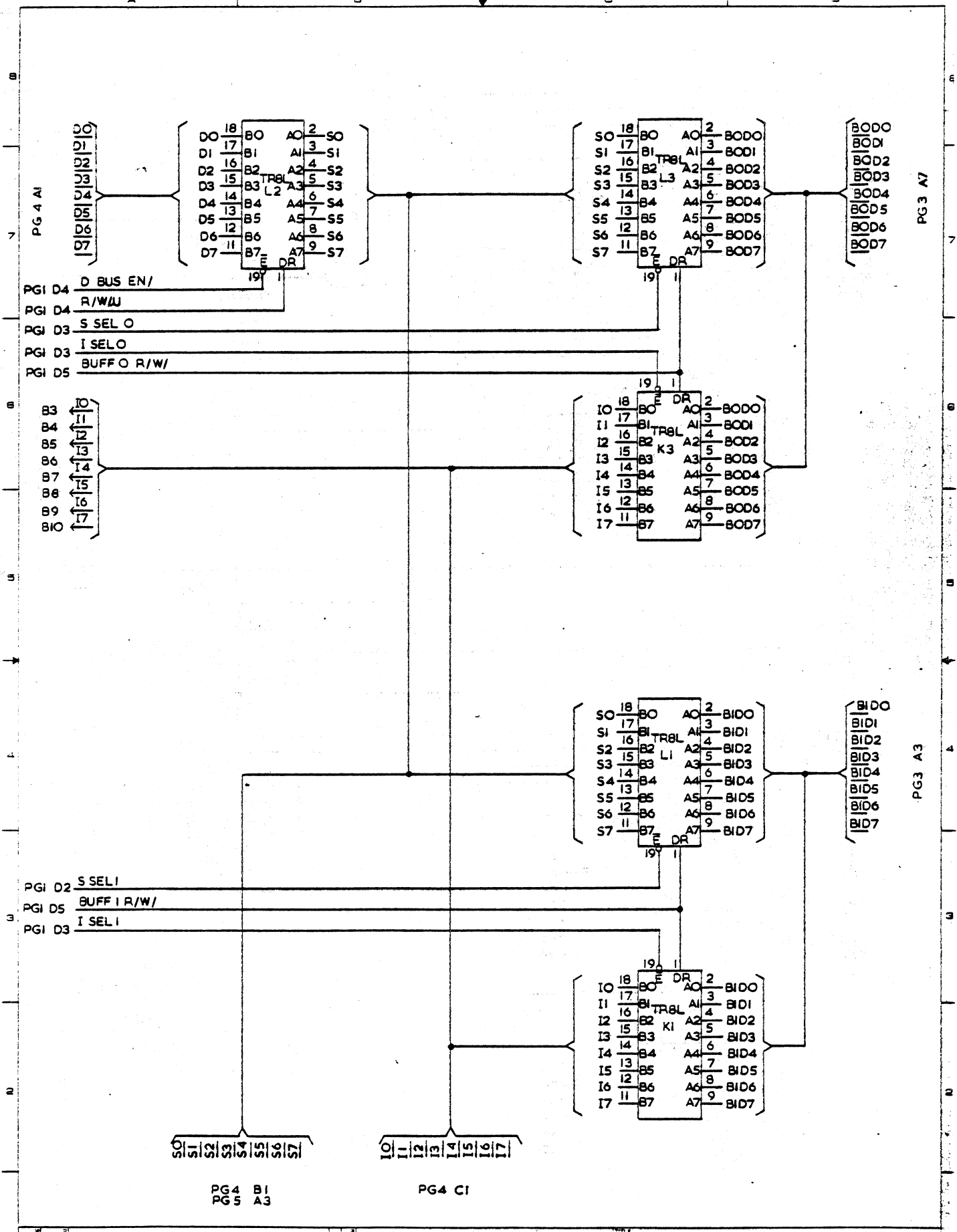
101



BURROUGHS 1888 1037 1888 1037		Burroughs BURROUGHS MACHINES LIMITED GLASGOW, SCOTLAND, U.K.		TITLE: SCHEMATIC D.M.A. DOC. TYPE: 018 CLASS CODE: 29520 DRAWN: N MURRAY			CHECKED: J. L. [Signature] ENGINEER: J. L. [Signature] DATE: 26-11-62		DATE: 26-11-62 DATE: 26-11-62 DATE: 26-11-62		JOB NO: D 1888 1037 SHEET: 1 of 5	
----------------------------------	--	---	--	---	--	--	---	--	--	--	--------------------------------------	--

INPUTS

OUTPUTS



PG4 BI
PG5 A3

PG4 CI

PG3 A7

PG3 A3

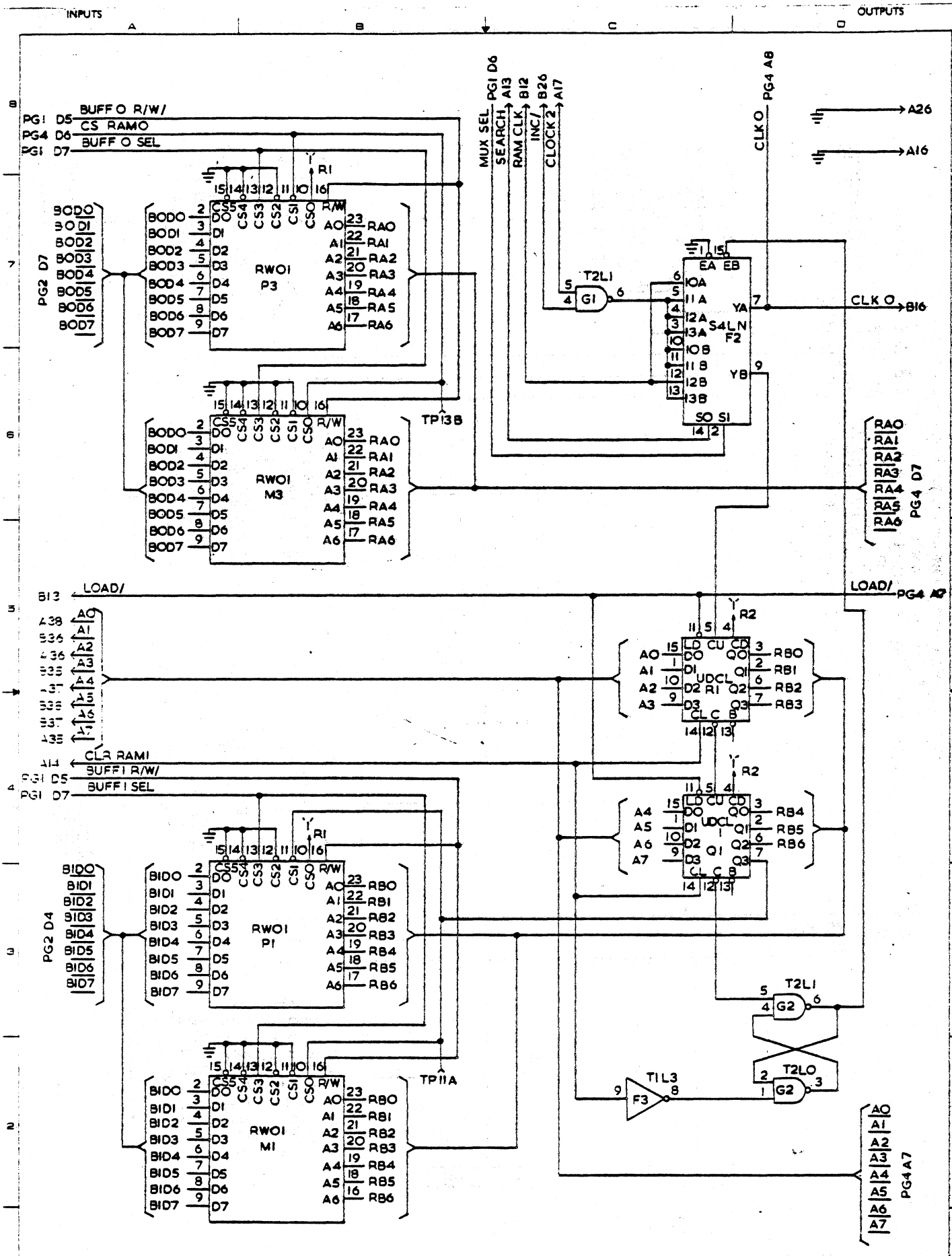
1888 1037
2 of 5

Burroughs
BURROUGHS MACHINES LIMITED
GLASGOW, SCOTLAND, U.K.

SCHEMATIC DMA.

DOC TYPE	018	DESIGNED BY	J. LESLIE	DATE	20-1-73
CLASS CODE	2 9520	ENGINEER	J. LESLIE	DATE	20-1-73
DATE		APPROVED		DATE	2-1-73
NAME	N. MURRAY	SHY	2 of 5	REV	A

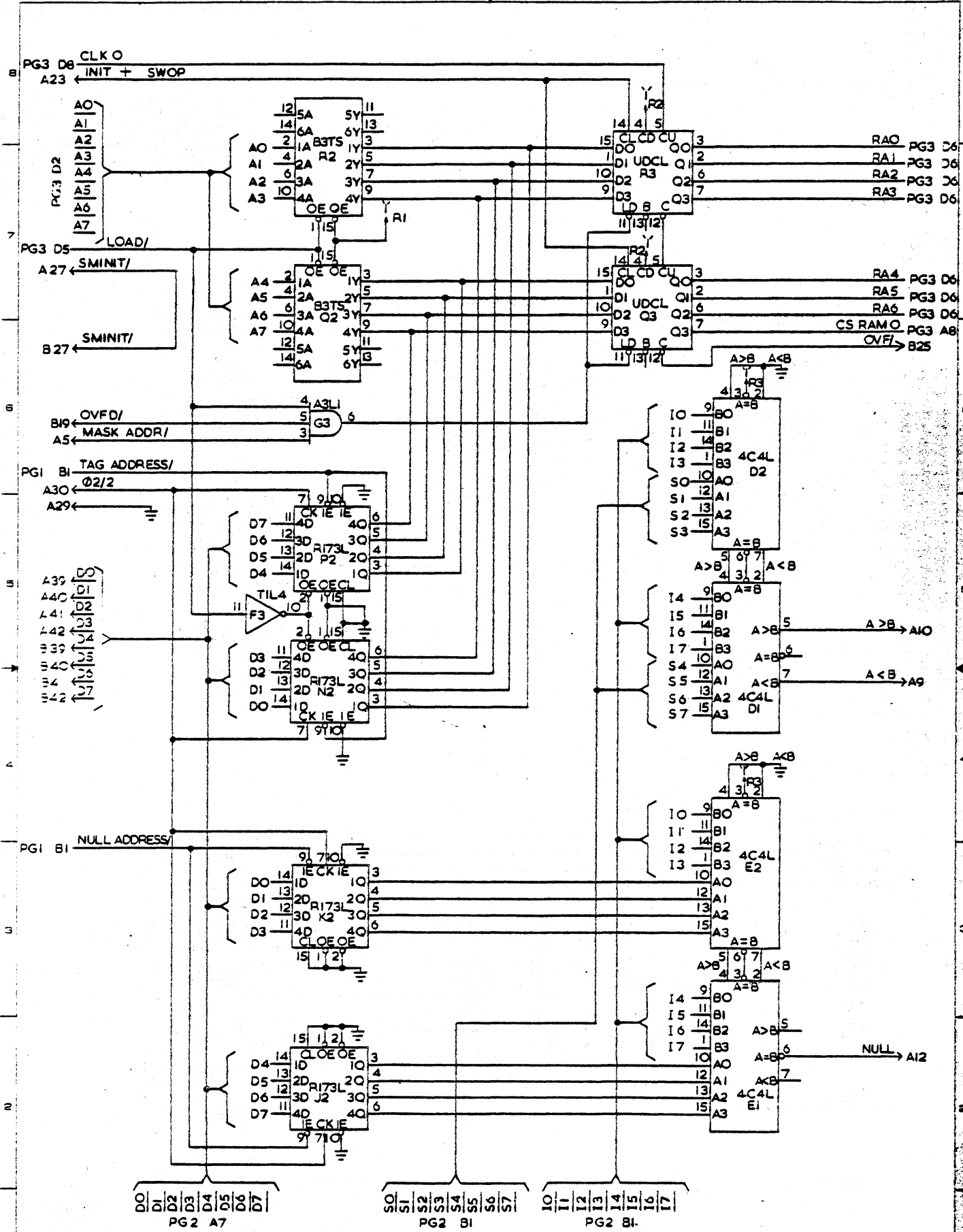
PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.



5 2 E LEOI 8881 100107	Burroughs BURROUGHS MACHINES LIMITED JLENROTHES, SCOTLAND, U.K.		TITLE SCHEMATIC D.M.A.			
	DESIGN 29520	DATE 018	CHECKED J. LESLIE	DATE 28-1-82	OWN. NO. D 1888 1037	REV. A
	CLASS CODE N MURRAY	DATE 20-1-82	ENGINEER J. LESLIE	DATE 20-1-82	SHEET 3 of 5	REV. A
	PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.					

INPUTS

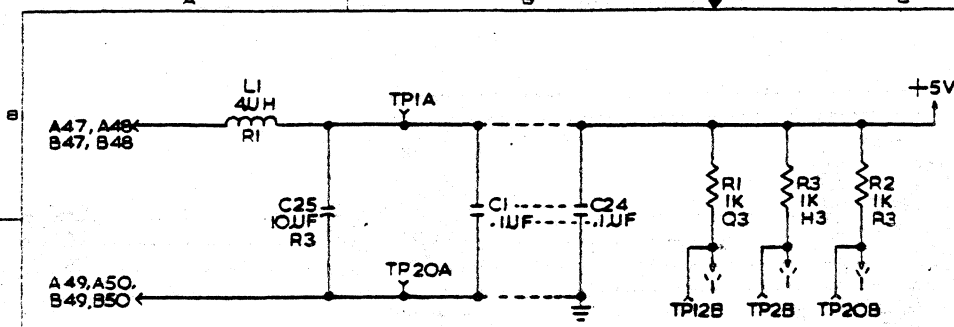
OUTPUTS



1888 1037 4 5	Burroughs <small>BURROUGHS MACHINES LIMITED 3 LAMBROTH, SCOTLAND, U.K.</small>		SCHEMATIC D.M.A.	
	DOC. TYPE	DESK. CONTROL	CHECKED	DATE
	CLASS. CODE	018	J. LESLIE	20-1-52
	29520		J. LESLIE	20-1-52
DESIGNED BY		DATE	APPROVED	DATE
N. MURRAY				21/1/51
		SHT.	REV.	
		4	5	

INPUTS

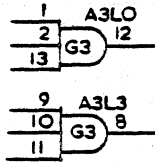
OUTPUTS



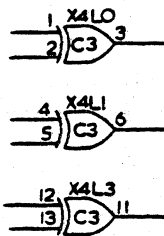
NOTE

- 1 FOR ASSEMBLY SEE 1888 1029
- 2 UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4W ± 2%
- 3 UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHMS

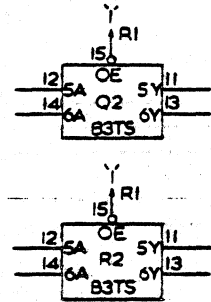
UNUSED AND GATES



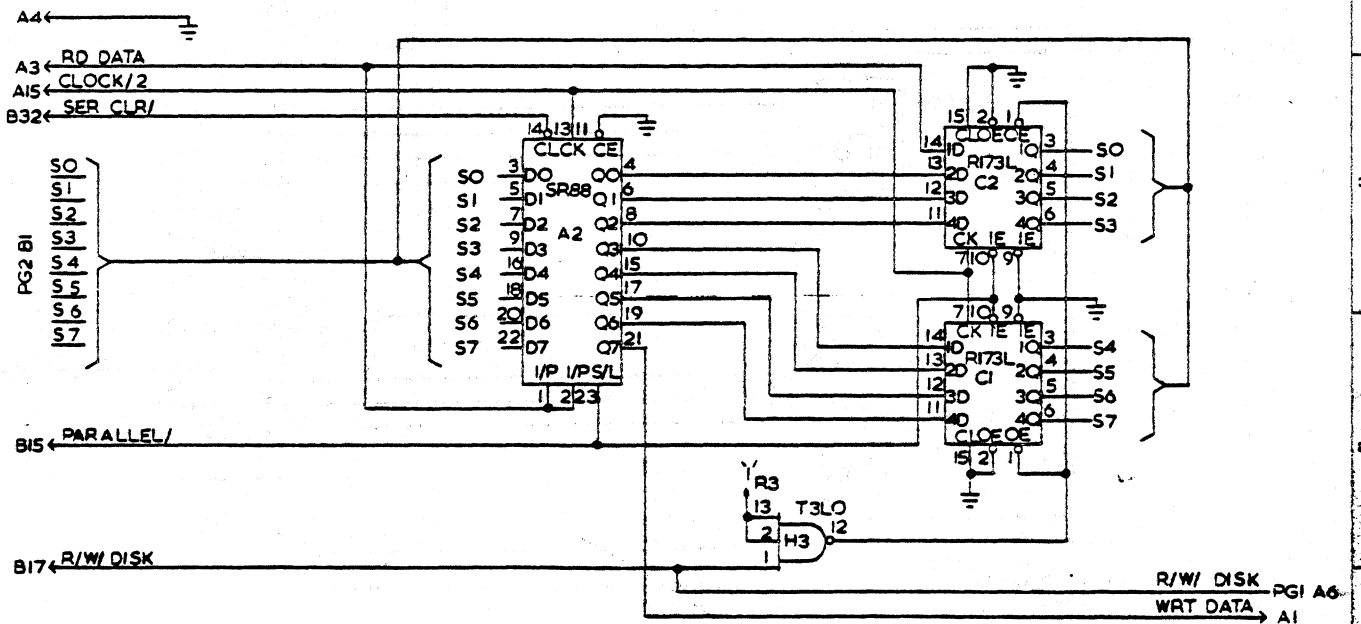
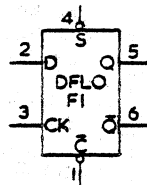
UNUSED GATES
UNUSED XOR GATES



UNUSED TS BUFFERS



UNUSED D TYPE

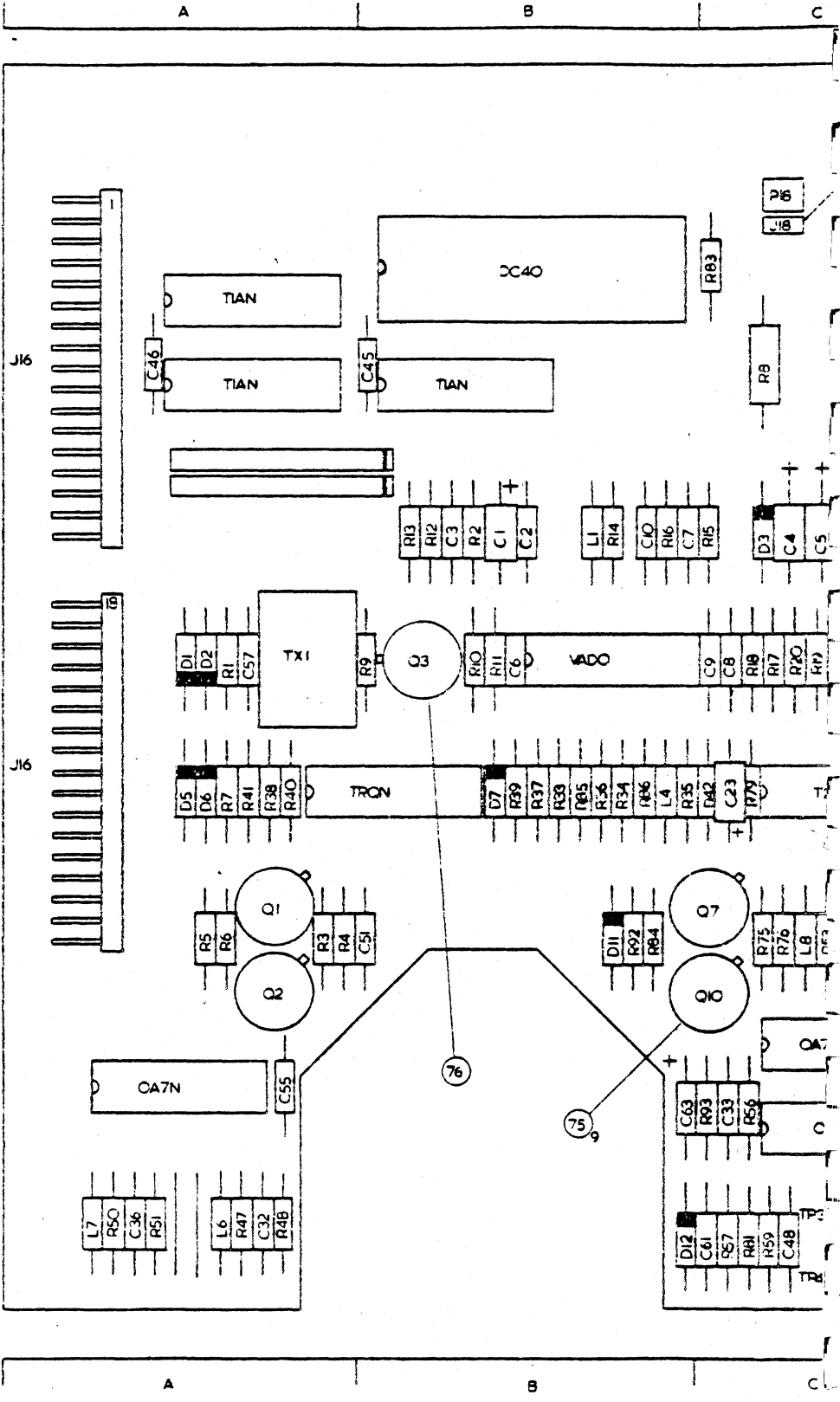


1888 1037		Burroughs		Schematic D.M.A	
CLASS CODE	2 9520	DESIGN CONTROL	018	CHECKED	J. LESTER
DATE		DATE	20-1-72	DATE	20-1-72
DRW	N MURRAY	PROVED		REV	5 of 5

DO NOT SCALE

REVISIONS
INITIAL RELEASE

1
2
3
4
5
6
7
8
9

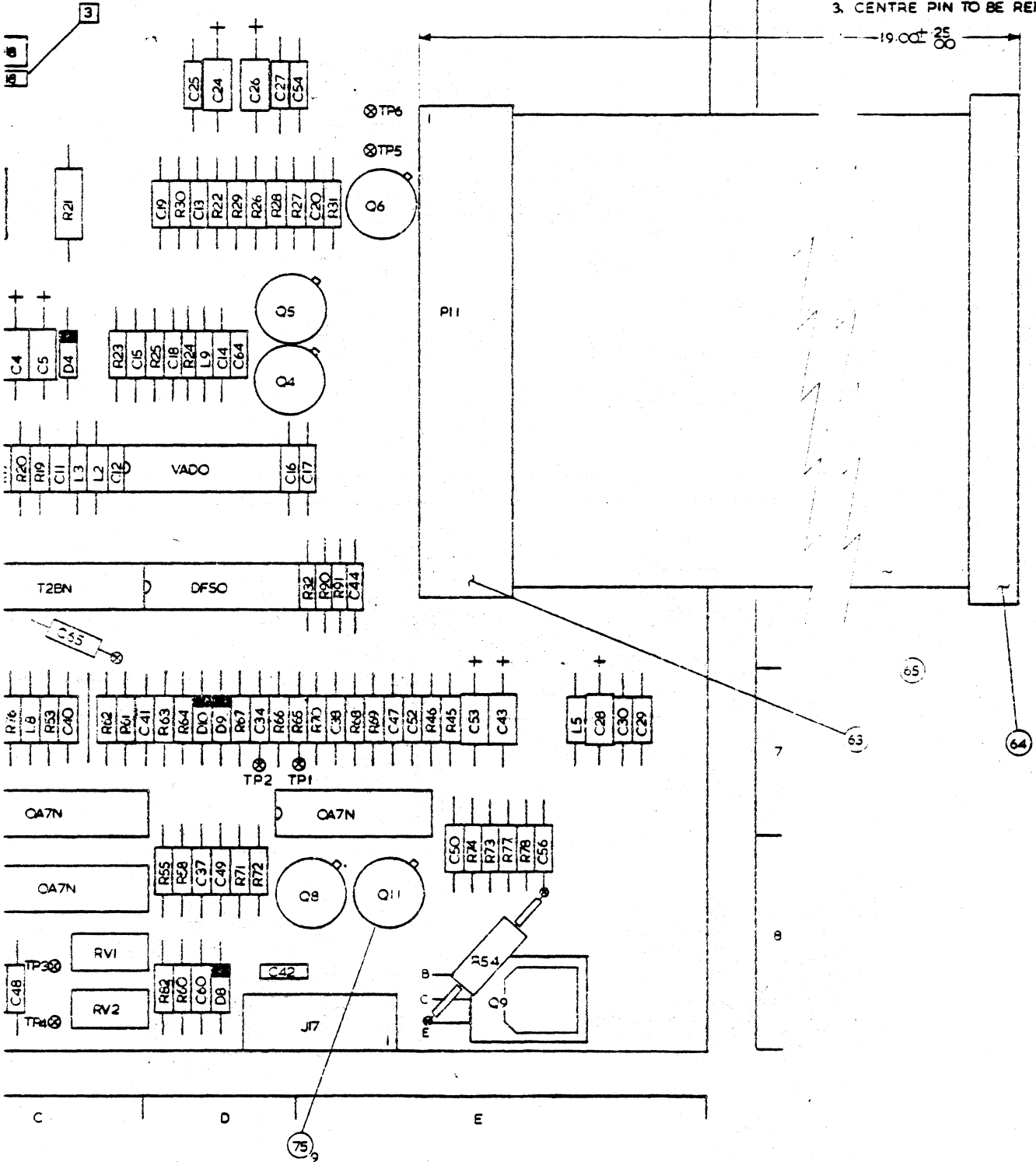


IF IN DOUBT - ASK

E 1868 3784

NOTES

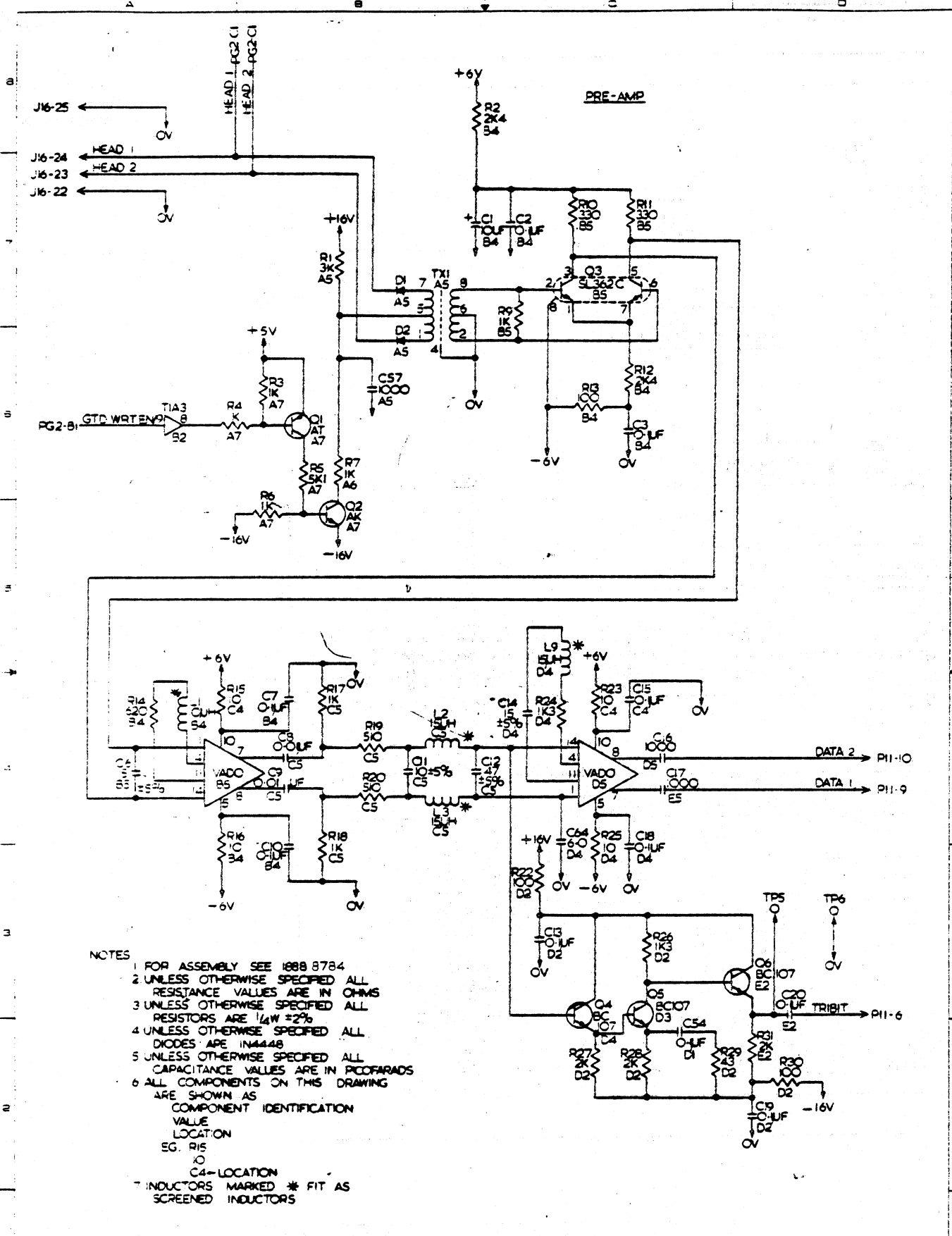
1. FOR SCHEMATIC SEE 1868 3792
2. MAX COMPONENT HEIGHT ABOVE BOARD SURFACE UNDER CAN TO BE 475
3. CENTRE PIN TO BE REMOVED



THIS AND ALL PROJECTIONS		GEN. QUAL. SPEC '63 3543 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED				DATE	
DESIGN CONTROL	HOLE DIMENSIONS	TOLERANCES UNLESS OTHERWISE SPECIFIED		XX ±	ANGLES	K.W.L. MITT	10/22
	TOLERANCES	MATERIAL					
JOB TITLE	128 - .005 - .008 - .01	-LAY TREATMENT				ENGINEER	DATE
	281 - .008 - .008 - .01	SURFACE TREATMENT				APPROVED	DATE
	351 - .01 - .01 - .012 - .016	PROMPTLY TO BURROUGHS - DO NOT BE REWORKED AND USED FOR		BUREAU OF AERONAUTICS		BURROUGHS ELECTRONICS SCOTLAND, UK	
	381 - .012 - .012 - .012 - .012	MANUFACTURING PLANT/SHOP OR SUPPLIER'S DATA SHEET/OTHER DOCUMENT		PRE-AMP PC ASSY 16V		CLASS CODE	
	UNLESS OTHERWISE SPECIFIED			SCALE		E 1868 3784	

INPUTS

OUTPUTS



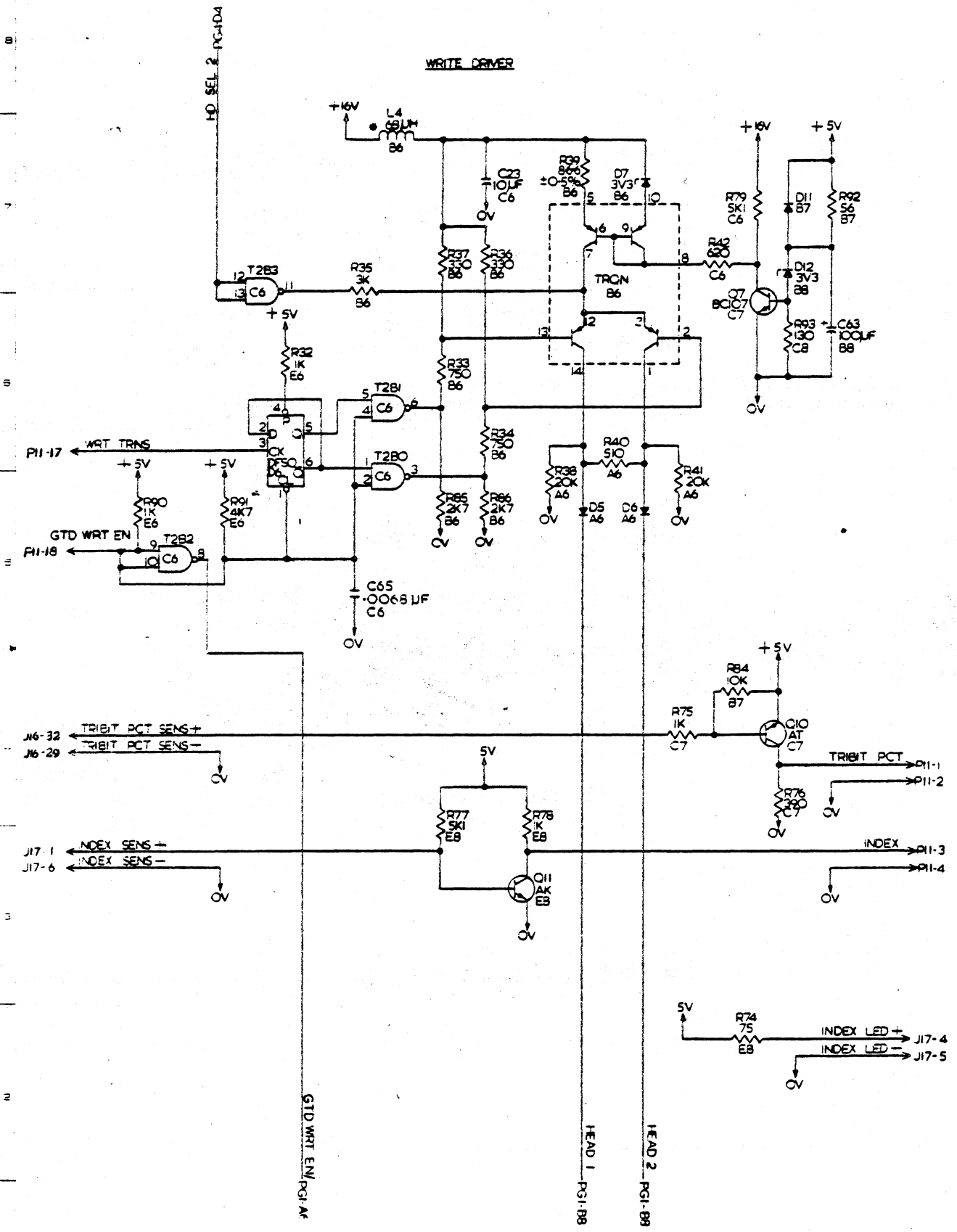
- NOTES
- 1 FOR ASSEMBLY SEE 1888 9784
 - 2 UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHMS
 - 3 UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/4W ±2%
 - 4 UNLESS OTHERWISE SPECIFIED ALL DIODES ARE IN4448
 - 5 UNLESS OTHERWISE SPECIFIED ALL CAPACITANCE VALUES ARE IN PICOFARADS
 - 6 ALL COMPONENTS ON THIS DRAWING ARE SHOWN AS COMPONENT IDENTIFICATION VALUE LOCATION
EG. R15
O
C4-LOCATION
 - 7 INDUCTORS MARKED * FIT AS SCREENED INDUCTORS

		SCHEMATIC PRE-AMP 16V	
1888 9784 29530	018	018	D-1888 3792
K W I L L I T H I L L S	1 8 4 3	1 8 4 3	1 8 4 3

INPUTS

OUTPUTS

WRITE DRIVER



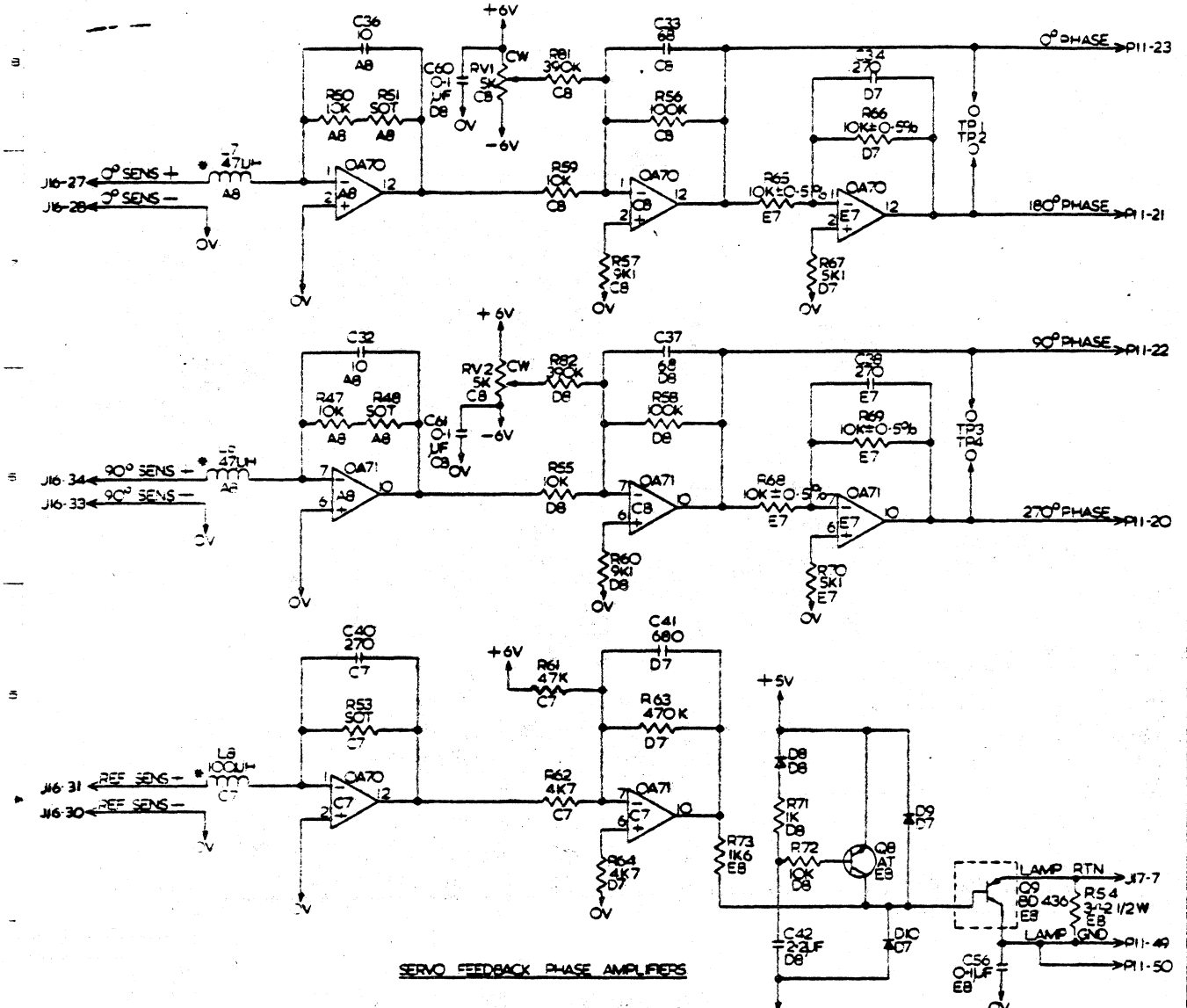
SEE SHEET 1

Burroughs
BURROUGHS MACHINE LIMITED
ALBANY, NEW YORK, U.S.A.

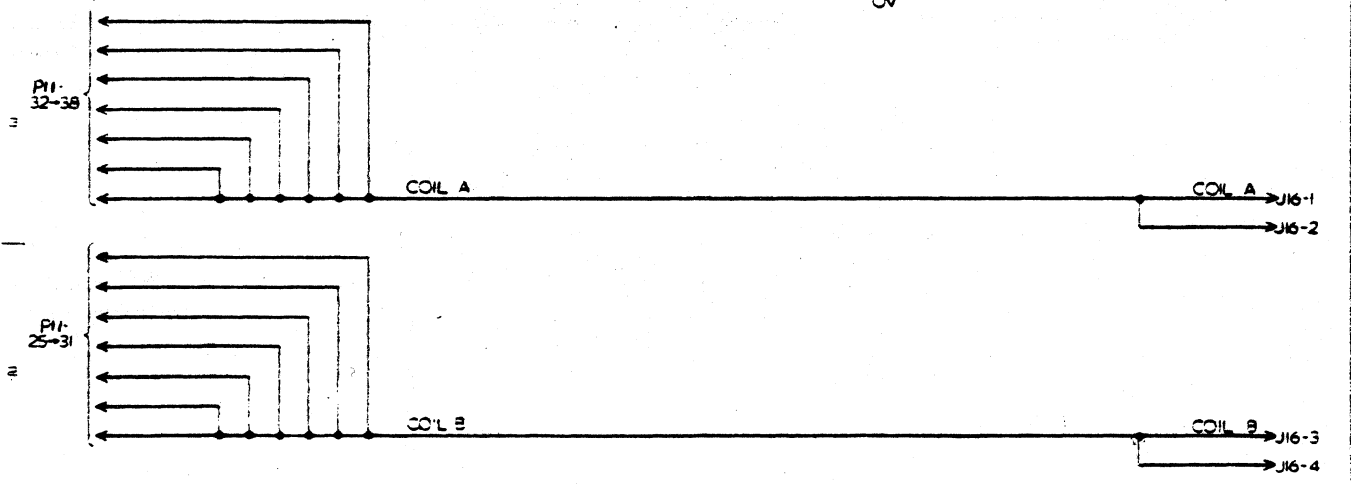
SCHEMATIC PRE-AMP KV

DESIGN NO.	018	DATE	0-888 E7-2
REV. NO.	2 9520	DATE	2 4 8
DESIGNED BY	K WILLIAMS	CHECKED BY	

PROPERTY OF BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR ANY PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT.



SERVO FEEDBACK PHASE AMPLIFIERS

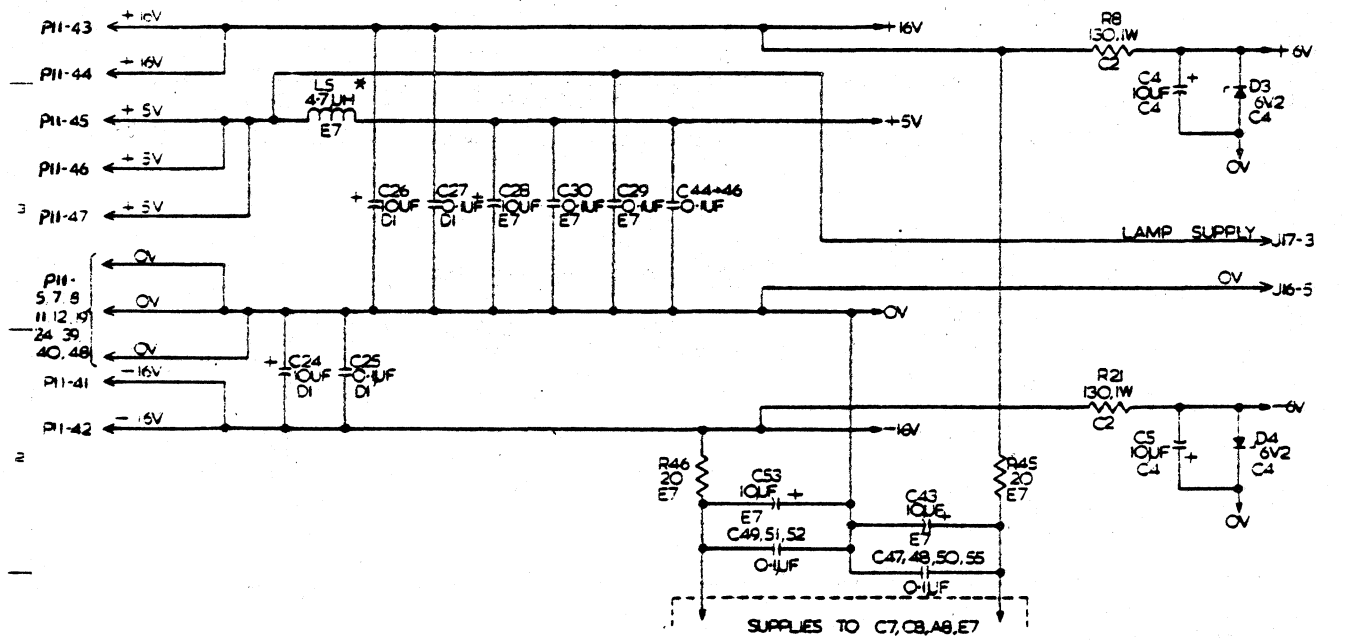
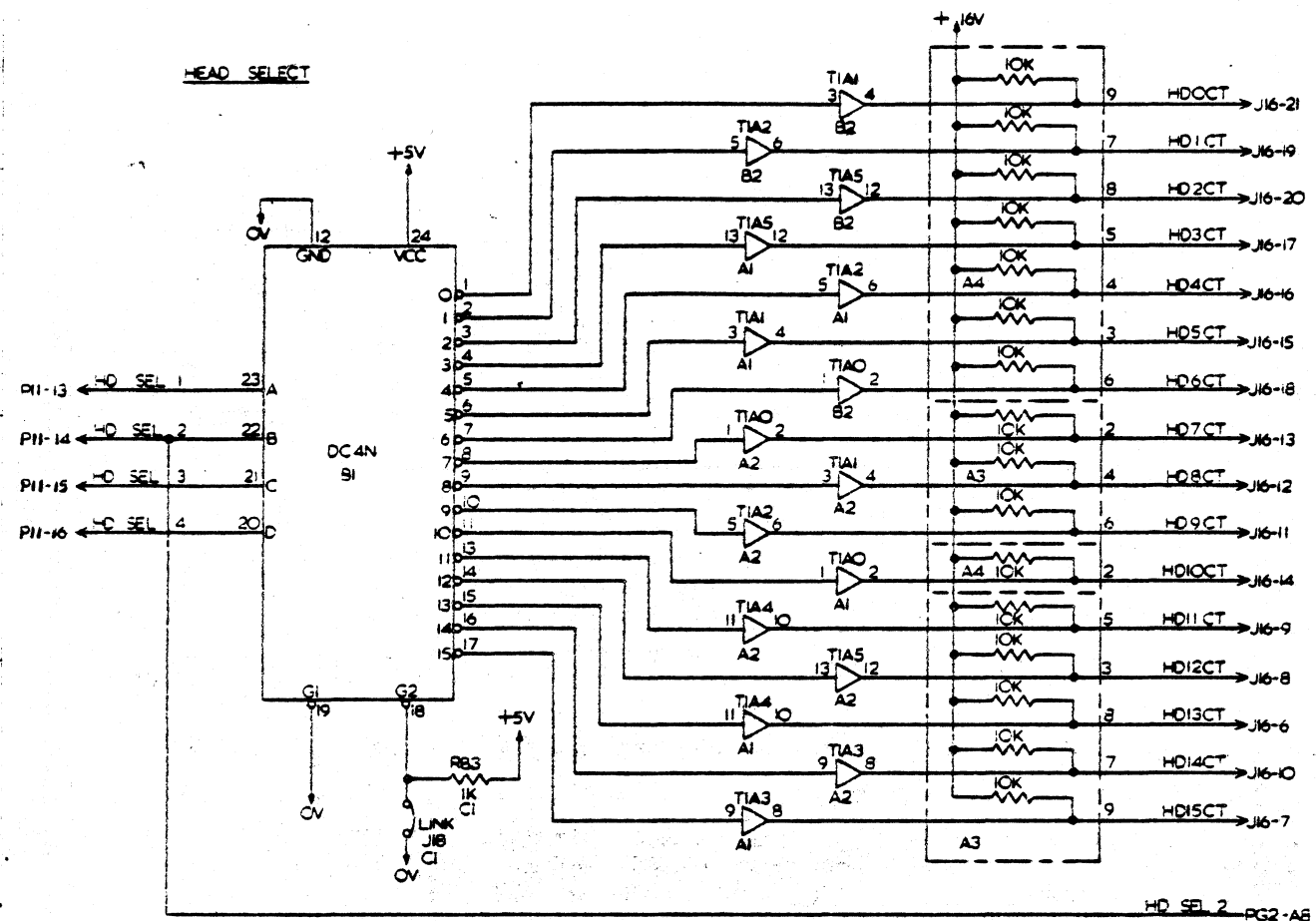


3 68810 SEE SHEET 1	27 11 32	27 11 32	Burroughs		SCHEMATIC PRE-AMP 16V	
			29520	018	0-1888	11-32
PROPERTY OF BURROUGHS, NOT TO BE REPRODUCED OR USED FOR ANY PURPOSES WITHOUT WRITTEN CONSENT OF BURROUGHS			DATE: 11-32	DESIGNED BY:	CHECKED BY:	DATE:

INPUTS

OUTPUTS

HEAD SELECT



1888	SEE SHEET 1	REV	DATE	BY	CHKD	APP'D	SHEETS		DATE	JOB NO
							NO	TOTAL		
Burroughs										
BURROUGHS BUSINESS SYSTEMS LIMITED BURROUGHS BUSINESS SYSTEMS, L.L.C.										
PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED NOR USED FOR REPRODUCTION WITHOUT WRITTEN CONSENT.										
TITLE			SHEET			REV				
SCHEMATIC PRE-AMP 16V			018			018				
2 9520			018			018				
K W L M J			11-11-72			4 of 4				

REVISIONS			
REV. NO.	DATE	BY	APP. DATE
A	8/26	NM	JST

INITIAL RELEASE

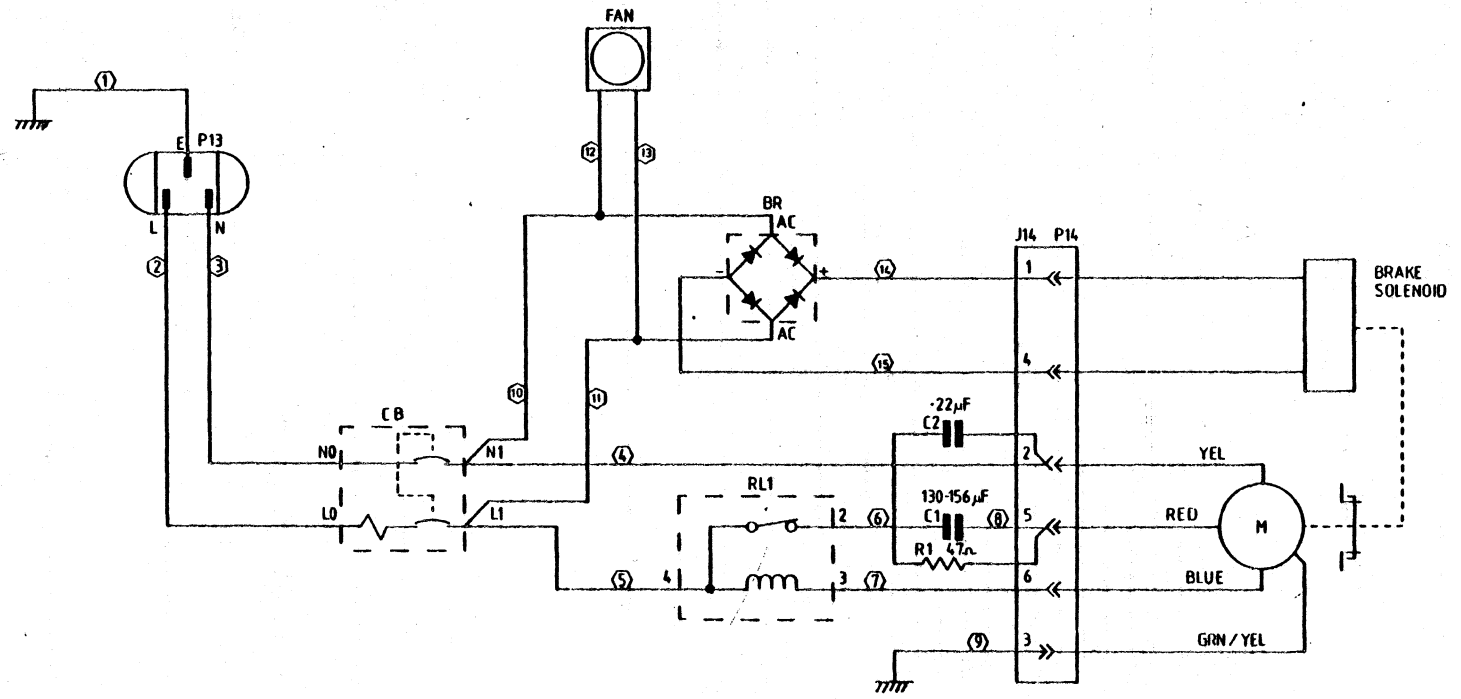
B	8/26	NM	MC	1/25	8/26
---	------	----	----	------	------

P1 47_n WAS 51_n
CONNECTED TO J14-5
WAS J14-6

C	8/27	RM	2/2	1/2
---	------	----	-----	-----

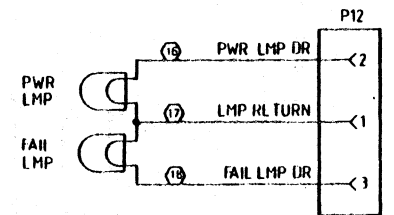
ON J14 TERML. 2 WAS
MALE CONNECTOR

DO NOT SCALE IF IN DOUBT - ASK



NOTES
○ DENOTES WIRE NUMBER SEE ASSY

J15		P9
1 ←	0V	0V < 1
4 ←	0V	0V < 4
2 ←	-16V	-16V < 2
5 ←	+16V	+16V < 5
3 ←	+5V	+5V < 3
6 ←	+5V	+5V < 6




THIRD ANGLE PROJECTION		GEN QUAL SPEC 1193 5543 AND TITLE - BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED				DATE		Burroughs	
DESIGN	SIZE	1/16	1/8	3/16	1/2	DATE	2/2/50	BURROUGHS MACHINERY LTD GLENFOLK SCOTLAND	
	CONTROL	1/32	1/16	1/8	3/16	DATE	2/2/50	TITLE	
DOC TYPE	DESIGN	1/64	1/32	1/16	1/8	DATE	2/2/50	SCHEMATIC HARNESS 211 RALK	
	TYPE	1/128	1/64	1/32	1/16	DATE	2/2/50	SCALE	

3182 7298
 JAN 13, 84
 ELN 66021

PIN No 1 2767 7012	COLOUR	SIGNAL REF.	PIN No. 2850 4462	PIN No 2 2767 7012	COLOUR	SIGNAL REF.	PIN No. 2850 4462
A,B		NOT USED	1,3	A,B		NOT USED	2,4
C	WHITE	DATA TH0-	5	C	ORANGE	DATA TH0+	6
D	WHITE	DATA TH1-	7	D	RED	DATA TH1+	8
E	WHITE	DATA TH2-	9	E	BLACK	DATA TH2+	10
F	WHITE	DATA THP-	11	F	BROWN	DATA THP+	12
G	WHITE	POR-	13	G	YELLOW	POR+	14
H	BLACK	DATA TH3-	15	H	RED	DATA TH3+	16
I	BLACK	DS-	17	I	ORANGE	DS+	18
J	BLACK	DATA TH4-	19	J	YELLOW	DATA TH4+	20
K	BLACK	DPC-	21	K	BLUE	DPC+	22
L	BLACK	DATA TH5-	23	L	VIOLET	DATA TH5+	24
M	WHITE	DATA TH6-	25	M	BLUE	DATA TH6+	26
N	WHITE	DATA TH7-	27	N	VIOLET	DATA TH7+	28
P	WHITE	DATA FH4-	29	P	GREY	DATA FH4+	30
Q	BLACK	DATA FH5-	31	Q	BROWN	DATA FH5+	32
R	BROWN	DATA FH6-	33	R	BLUE	DATA FH6+	34
S	BROWN	DATA FH7-	35	S	VIOLET	DATA FH7+	36
T	BROWN	CLOCK-	37	T	GREY	CLOCK+	38
U	BROWN	DATA FH0-	39	U	ORANGE	DATA FH0+	40
V	RED	DATA FH1-	41	V	ORANGE	DATA FH1+	42
W	BROWN	DATA FH2-	43	W	RED	DATA FH2+	44
X	RED	DATA FH3-	45	X	YELLOW	DATA FH3+	46
Y	BLACK	DATA FHP-	47	Y	GREY	DATA FHP+	48
Z	BROWN	CONT-	49	Z	YELLOW	CONT+	50
AA	WHITE	DIRN-	51	AA	GREEN	DIRN+	52
BB	BLACK	HS-	53	BB	GREEN	HS+	54
CC	BROWN	HPC-	55	CC	GREEN	HPC+	56
DD,EE		NOT USED	57,59	DD,EE		NOT USED	58,60

EACH PAIR OF + SIGNAL WIRES AND - SIGNAL WIRES ARE LINKED TO THE CONNECTOR IN
 A TWISTED PAIR. eg. HPC- AND HPC+

TOLERANCES UNLESS OTHERWISE SPECIFIED INCHES .XX ± .XX ± ANGLES ± MM .XX ± .XX ± ANGLES ±		GEN. Q'AL. SPEC 1183 5643 APPLY	DESIGN CONTROL 308	CLASSIFICATION CODE 2-1531	DRAWING NO. 3182 7298
MATERIAL HEAT TREATMENT SURFACE TREATMENT		DATE JAN 12 84		Burroughs <small>COMMERCIAL</small> <small>SCOTLAND</small>	
PROPRIETARY TO BURROUGHS. NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS' ORDER OR PRIOR WRITTEN CONSENT.		DATE JAN 12 84	TECHNICAL SERVICES MATERIAL & SURFACE TREATMENT	211 WIRE LIST	
		DATE JAN 12 84	MATERIAL & HEAT TREATMENT	SCALE A2	DWG. NO. 3182 7298
				SHEET NO. 1 of 1	REV. A