

**T & F Documents
for
.150" - Tape Cassette
Unit**

PRODUCT SPECIFICATION

Cassette Tapes

The use of tape cassettes as a reliable data storage medium requires strict adherence to proper operator handling procedures, the control of operation environment, the control of cassette tapes in a storage library, and the control of transportation and storage environment for cassette tapes. Each procedure and control is equally important and interdependent on each other.

Operator Handling Procedures

The tape cassette should be carefully removed from the storage container and placed opening edge down, "A" side toward operator, in the cassette drive.

Before removing a cassette from the drive, always let the unit rewind the tape to clear leader. Make sure the clear leader is in full view before replacing the cassette tape in the storage container. The tape should not be touched or handled in any way.

Do not open the cassette drive front door when tape is in motion or tape damage may occur.

Operation Environment

It is recommended that the cassette drives be operated under the following environmental conditions.

Temperature 50 to 90° F

RH 20 to 80% (no condensation)

For additional information refer to Engineering Specifications 2046 2875, 2046 3725, and Environmental Standard B2-05. The immediate operation environment must be free of liquid or particulate contaminates such as coffee, soft drinks, cigarette or cigar ashes, paper, dust, etc.

The cassette tapes must not be stored or handled near strong magnetic fields.

Tape Library and Storage Environment.

It is recommended that cassette tapes be stored under the following environmental conditions.

Temperature 40 - 122° F

RH 20 to 80% (noncondensing)

During storage the reels shall be secured to prevent any tendency to unwind. For storage a rigid container free from dust and moisture should be used. Containers must be stored in an area free from strong magnetic fields.

Each cassette tape should be clearly identified when put into use. Identification should consist of a date code and identification number. Master file tapes should be clearly marked for ease of identification.

A performance history should be maintained for each cassette tape noting date entering use, error history, certification and tape cleaning history, and maintenance intervals required.

Periodic visual inspection should be performed on each cassette noting nonuniform wound reels, contamination buildup on any of the open end surfaces and contamination on the external cassette surfaces that would prevent proper cassette load/unload.

Tape damage of any type that causes permanent deformation or distortion of the tape will result in unpredictable operation and the cassette tape should be discarded.

The useful life of the cassette tape should be determined for each application. In general cassette tape life is reduced more by operator handling than by cassette drive use. End of tape life can be determined by the performance history of the cassette tape. Analysis of time in service, the number of temporary errors, and visual inspection should provide guidelines in determining end of cassette tape life.

Transportation and Storage Environment

Refer to Engineering Specifications 2046 2875, 2046 3725 and B2-05.

OPERATIONALRecommended Use

The cassette drive subsystem is designed for horizontal or vertical mounting. Cassette tape load/unload access is gained by pressing the load/unload button at the top of the cassette drive face. The cassette tape should be gently inserted open edge down, "A" side facing the operator and the carriage closed. Tape drive motion and amount of tape on the supply reel is indicated through the front view window. Optional indicators are available, one for file protect indication and the other is externally controlled through the interface. Cassette unload should only be attempted with the drive stopped and the cassette tape in clear leader position. After use the cassette carriage should be closed to prevent accumulation of dirt and dust in the cassette drive mechanism.

Do not actuate rewind by opening and closing the carriage assembly door. Rewind mode must be actuated by the controller only. To avoid possible tape damage do not open the carriage assembly door unless tape is positioned at clear leader.

ELECTRICAL

I/O Signals and Levels

Signal levels are measured at the receiving end of the line under termination conditions specified in Section 6.1.5.

Logical True

A signal level is logical true (logical 1) if it is in the range + 2.5 to + 5.5 volts. No signal shall be more positive than 5.5 volts.

Logical False

A signal level is logical false (logical 0) if it is in the range 0 to 0.5 volts. No "false" signal level shall be more positive than 0.5 volts.

Switching Time

Switching time is the rise or fall time of a signal, whichever is greater, as seen at the receiving end of the line under the termination conditions of Section 6.1.5.

Switching time shall not exceed .250 microsecond between the 10% and 90% points.

Output Signal Characteristics

The output consists of DTL 944 open collector driver that has sink current capability of 40 ma.

Input Signal Termination

The input line termination consists of $237 \pm 5\%$ ohms to + 5 V and $348 \pm 5\%$ ohms to ground.

Clear Leader - BOT/EOT

A clear leader signal will be generated any time the clear leader is positioned in front of each of the photo sensors located in each tape guide.

The BOT/EOT holes are sensed by the photo sensor located between the tape supply reel and the tape head (i.e. the left sensor).

Interface Pin Assignment

<u>Pin</u>	<u>Signal</u>	<u>Description</u>
K	<u>TWT</u>	Tape Write Level
V	<u>TWRL</u>	Tape Write Ready Level - File Protect
M	<u>FDL</u>	Forward Drive Level
W	<u>TREL</u>	Tape Ready Level
H	<u>TWCP</u>	Tape Write Clock Pulse
U	<u>TPRL</u>	Tape Position Ready Level
T	<u>CLPL</u>	Clear Leader Position Level
F	<u>TWIL</u>	Tape Write Information Level
S	<u>TRIP</u>	Tape Read Information Pulse
N	<u>BDL</u>	Backward Drive Level
R	<u>TRCL</u>	Tape Read Clock Level
C	-12V DC	
E	<u>TRWP</u>	Tape Rewind Pulse
P	<u>CSL</u>	Cassette Select Level
B	+ 12V DC	
L	<u>HSL</u>	High Speed Level
J	<u>RCL</u>	Read Clipping Level
A	+ 5V DC	
X	<u>RL</u>	Indicator Control (option)

NOTE: All pin numbers 1 thru 19 are ground pins. Pins H, F, S, and R are information transfer lines and are twisted pair. Twisted pair grounds should be grounded at the numbered pin opposite the lettered pin on this connector. The maximum cable length is 10 feet. The cable length may be extended to 15 feet if twisted pair wires are used on all signal lines. See Product Index listed in Par. 2.0.

Interface Connector

The cassette uses Part No. S2041 2516 connector (AMP 583617-1 ref only).

Input Lines to RecorderFDL - Forward Drive Level

This line, when held "false", will cause the tape to be driven in the forward direction.

BDL - Backward Drive Level

When this line is "false" tape will be driven in the backward direction.

TWL - Tape Write Level

This line, when "False", holds the drive in write status and will permit data to be written on the tape. If this line is held "False" without having "Tape Write Clock" pulses, an erase function is performed. TWL must be "False" when the "Forward Drive Level" is turned on and must be maintained "False" for 30 μ s (until tape motion stops). Where possible the tape write level should be held in the "False" state before write operations.

Continued.

TRWP

The negative-going (leading) edge of this pulse (0.5-5 μ s) will initiate a rewind cycle in the tape drive. The rewind cycle will terminate automatically when tape is positioned at the beginning of tape - clear leader.

RCL - Read Clipping Level

When "false," this line selects the high clipping level and should be used when write verification is performed. This line should be held in a "true" state for normal reading. The clipping level should also be changed on alternate read retries after an initial read failure. This will provide the best probability for recover of recorded data.

TWIL - Tape Write Information Level

When "false" during a TWCP pulse, this line will cause a 1-bit (flux change) to be written in the data track. A "true" level (or line open) will result in a 0-bit (no flux change) at TWCP time. The TWIL line must set

Continued.

TWIL (Continued)

to the proper level one microsecond before the leading (negative going edge) of the clock pulse and must remain at that level for one microsecond after the trailing edge of the clock pulse.

TWCP - Tape Write Clock Pulse

The false level of the tape write clock pulse (0.5-5 μ s) indicates when the write information line TWIL is being sensed and strobes the resulting data bit into the write amplifier. The clock and, if present, the data signal changes are recorded on the tape at the positive-going (trailing edge) of the clock pulse. In dual gap machines the writing of the flux changes are delayed by approximately 50 μ sec. A clock pulse must be transmitted with each information bit.

HSL

When "false," this line causes the tape to be driven at approximately 25 ips (635 mm/s) in the direction determined by FDL or BUL. The HSL command may be given any time before or after a FOL or BOL is given.

Continued.

CSL - Cassette Select
Level

When "false" enable all input and output lines, except for CLPL and TREL which are enabled at all times. In multi-unit configurations a separate CSL line is provided to each unit and a separate line is provided from each unit for the CLPL and TREL signals. The CSL line is grounded for single unit configurations.

RL

Optional indicator control line.

Output Lines from Recorder/Reader

TREL - Tape Ready Level

When "false," this line indicates that a cassette is properly inserted in the recorder. The recorder is ready to accept a tape command via the interface.

TWRL - Tape Write Ready
Level

When "false," this line indicates that a cassette is properly inserted in the recorder and has a write enable tab installed to allow writing on tape.

TPRL - Tape Position Ready
Level

When "false," this line indicates that the tape is positioned properly and that the recorder can be operated in the write or read mode. This level

Continued.

TPRL (Continued)

will be set "false" when the tape has moved forward so that the BOT hole passes the BOT/EOT photo detector. It remains "false" until the EOT hole passes the BOT/EOT photo detector. The record being recorded at the time this level goes "true" at EOT and any additional required "end of file" record(s) must be completed within the remaining usable tape. The tape is usable to within 2.0 inches of the clear leader (trailer). In dual gap units this line is not controlled by the cassette select level and cannot be wire-ored with other units.

CLPL - Clear Leader Position Level

When "false," this line indicates that the tape is positioned at clear leader at the physical beginning or end of tape. Tape can be driven only in the forward direction when in a clear leader position. Should the tape be at clear leader at the end of the tape, operator intervention will be required to rewind the tape passed the clear

Continued.

CLPL (Continued)

leader. The cassette can then be re-inserted into the carriage and the tape will then automatically rewind to BOT clear leader. In dual gap units this line is not controlled by the cassette select level and cannot be wire-ored with other units.

TRIP - Tape Read Information Pulse

When "false," this line indicates that a "one" is being read for the cell period defined by TRCL. More than one pulse during any one cell period should also be interpreted as a single "one" for that particular cell. No pulse during cell time should be interpreted as a "zero." The minimum pulse width = 600 ns. The TRIP is not logically gated by the TRCL cell period in dual gap units and false levels which may occur outside the cell period are to be ignored.

TRCL - Tape Read Cell Level

This level when "false" indicates cell duration time. The negative going edge defines the beginning of cell period and the positive going trailing edge defines the end of the cell period.

Continued.

TRCL (Continued)

One or more TRIP's during TRCL time indicates that a "one" is being read and no TRIP's indicates a "zero" read. The minimum time between cell periods = 1.5 μ s.

Input Power

The voltage and current required from the host equipment to power the cassette drive subsystem is as follows:

+ 5 volts \pm 10%	1.0 amp maximum
+ 12 volts \pm 10%	0.9 amp maximum
- 12 volts \pm 10%	0.125 amp maximum

Indicator Option

An optional indicator when provided (see Figure 1) will cause the right side of the lens above the Write Status (WS) legend to be illuminated when a cassette tape, with the write enable plug in place, is properly inserted into the carriage and the carriage is closed. With the tab removed or the carriage open, the indicator will be dark.

The left side of the lens above the "R" legend is externally controlled through pin X of the interface connector. With pin X held at or near ground, the indicator will light. The indicator

Continued.

will be dark when the pin is allowed to float or is held to the +5V power supply level. The open circuit voltage of pin X is equal to the +5V power supply level. The control on pin X must be capable of sinking a maximum of 40 ma (nominally 32 ma) when grounded.

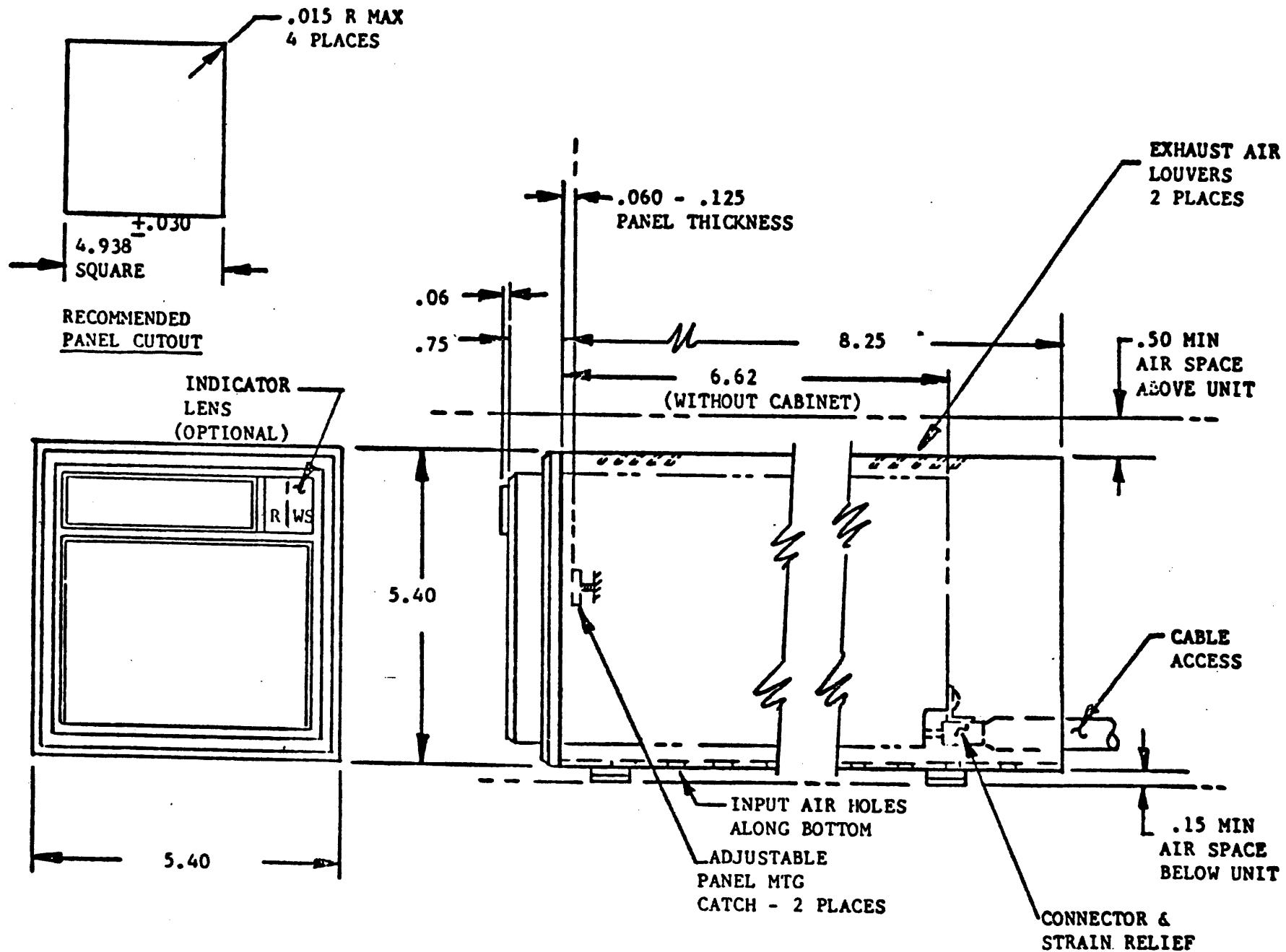
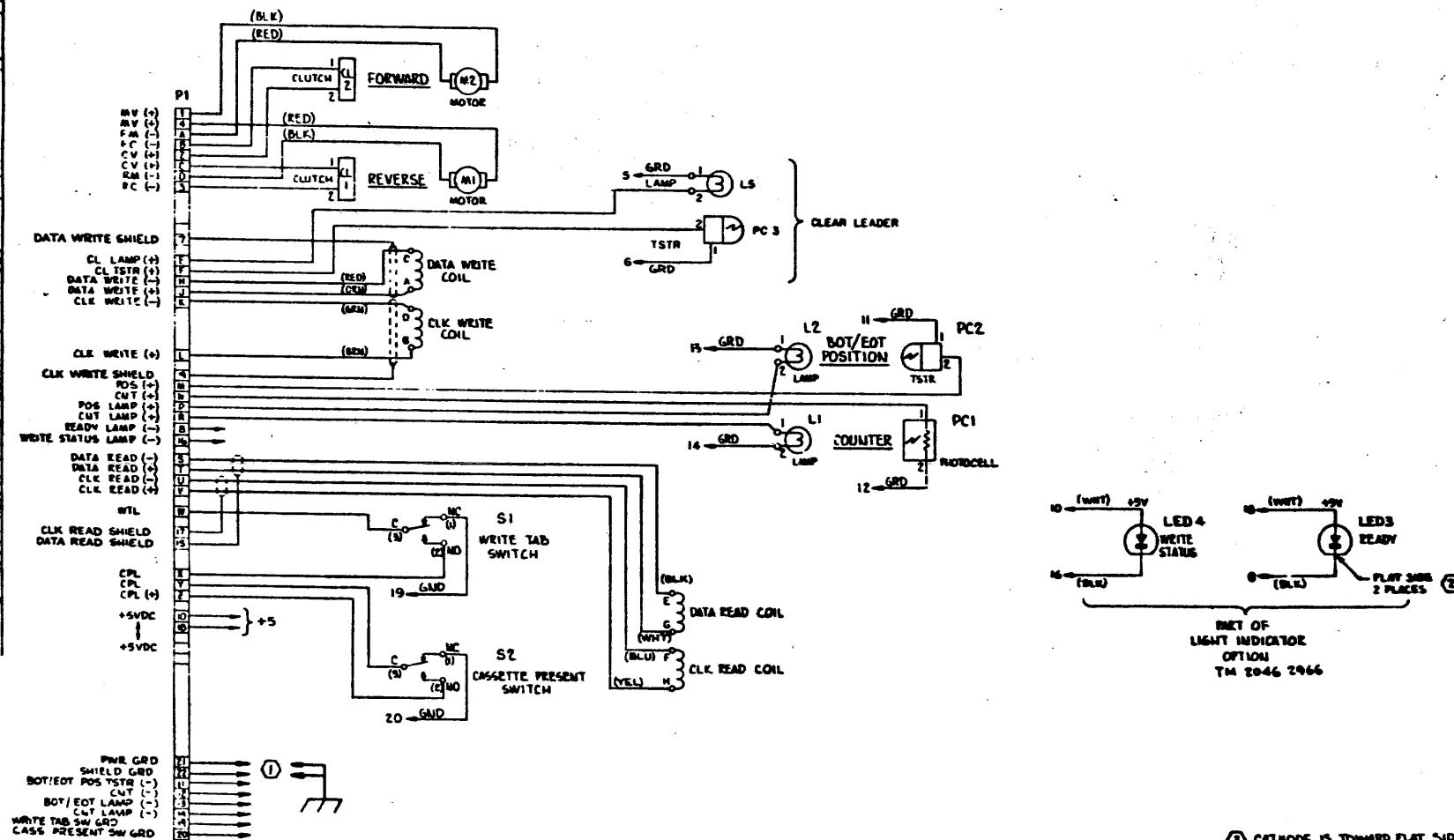


FIGURE 1

REVISIONS
A RELEASED
B ADDED WRITE &
C ADDED MANS ISBT (B-7)
2 CHANGED COLOR
CODES: BLK WAS GRN,
WHT WAS BRN, BLU
WAS YEL, VEL WAS
BLU (B-5)
D ADDED L3 & L4 (B-2)
ADDED PINS 6, 10, 16 &
18 (B-7, C-7)
E DELETED LED (B-2)
2. LED 3 WAS L3, LED 4
WAS L4 (B-2)
3. ADDED NOTE 2.
4. TITLE IS SCHEMATIC
TAPE DECK, WAS
SCHEMATIC-TAPE
DECK CASSETTE.
F REVISED TO SHOW
DUAL GAP CONFIG. ONLY
G ADDED PC3 & LS
(C, D-4)
H ADDED "DG" TO TITLE
(4) ADDED POSITIONS 11,
12, 13, 14, 19, 20, 4, E7.
(5) DELETED POSITIONS
5 & G.
I NOTE 1: WHEN
TWO SYSTEMS INSTALLATION,
ONE OR BOTH WIRES, FROM
P1-21 AND P1-22 TO GND
MAY BE REMOVED DEPENDING
ON SYSTEM REQUIREMENTS.



- ② CATHODE IS TOWARD FLAT SIDE OF CASE.
① IN PANEL MOUNTING APPLICATIONS, REMOVE
THE CONNECTION FROM P1-21 TO CHASSIS GROUND
(E.G., A SEPARATE GROUPING JUMPER FROM
CHASSIS CONNECTION E1 TO A SUITABLE PANEL
GROUND MUST BE ADDED BY USER.)

NOTE:

GEN. EXP'L. SPEC. 1103 8641 AND TITLE BLOCK LISTS APPLY UNLESS OTHERWISE SPECIFIED		DRAFT	
WIRE NUMBER	NAME	SIZE	DESCRIPTION
1	POWER	16 AWG	1
2	SHIELD GND	16 AWG	1
3	BOT/EOT POS TSTR	16 AWG	1
4	CUT	16 AWG	1
5	BOT/EOT LAMP	16 AWG	1
6	CUT LAMP	16 AWG	1
7	READY LAMP	16 AWG	1
8	DATA READ	16 AWG	1
9	CLK READ	16 AWG	1
10	SHIELD GND	16 AWG	1
11	DATA READ COIL	16 AWG	1
12	CLK READ COIL	16 AWG	1
13	SHIELD GND	16 AWG	1
14	LAMP	16 AWG	1
15	SHIELD GND	16 AWG	1
16	SHIELD GND	16 AWG	1
17	SHIELD GND	16 AWG	1
18	SHIELD GND	16 AWG	1
19	SHIELD GND	16 AWG	1
20	SHIELD GND	16 AWG	1

Draft
Burr-Brown Corporation
Burr-Brown Group
Westlake Village, California 91361
Division of General Telephone and Electronics
Schematic-DG D-2040 6641
Rev. 1

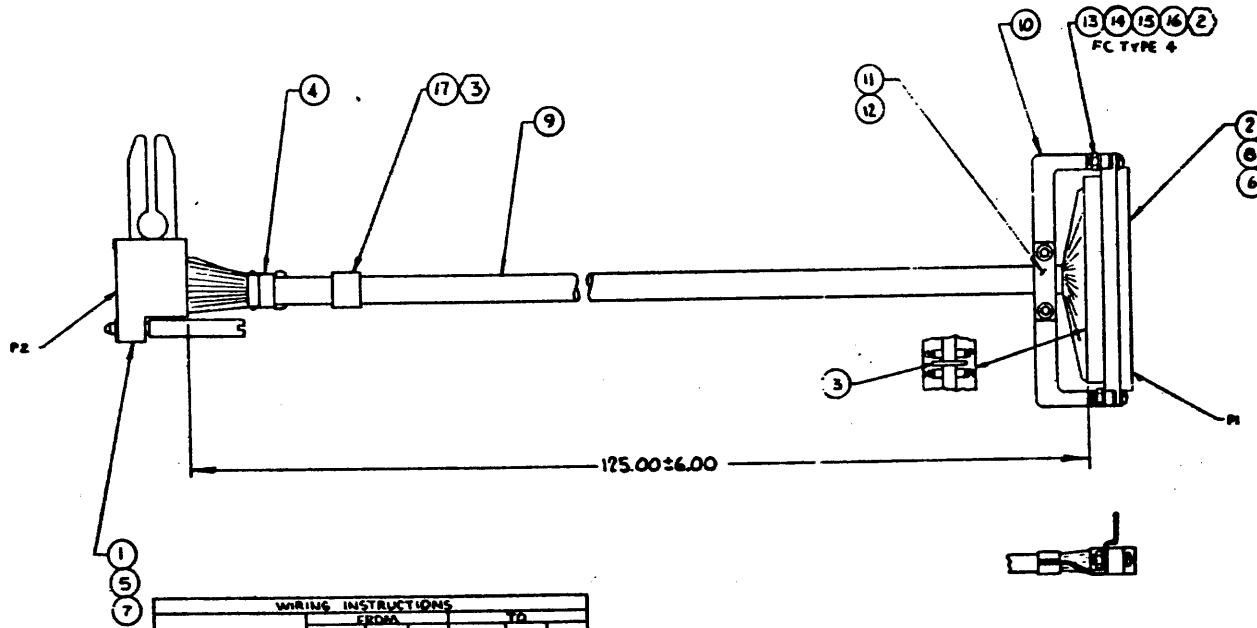
8
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D-2046 1992 E

RELEASER
A-100 GCA (400-100)
RELEASED
B-PC PS AND
C-115.00±6.00 HAS
100.00±5.00 (BA)
D-TITLE HAS "CABLE
ASSY, EXTR. PROOF!"

SEND CHANGES TO
"SER PLANTS"

80



WIRING INSTRUCTIONS					
	FROM	TO			
COLOR	TERMINAL ITEM.	CONN. NO.	TERMINAL ITEM.	CONN. NO.	PIN NO.
RED	6 P1	A	7 P2	1	
WHITE/BLACK	6 P1	I	7 P2	2	
ORANGE	6 P1	B	7 P2	3	
WHITE/BLACK/BLACK	6 P1	2	7 P2	4	
BROWN	6 P1	C	7 P2	5	10
WHITE/BLACK/BROWN	6 P1	D	5 P2	6	15
YELLOW	6 P1	E	5 P2	7	
WHITE/BLUE	8 P1	F	5 P2	14	
WHITE/VIOLET	8 P1	G	5 P2	9	
WHITE/GREY	8 P1	H	5 P2	13	
WHITE/BLACK/VIOLET	8 P1	I	5 P2	8	
BLUE	8 P1	J	5 P2	16	
VIOLET	8 P1	K	5 P2	17	
GREY	8 P1	L	5 P2	18	
WHITE	8 P1	M	5 P2	19	
WHITE/BLACK/BLUE	8 P1	N	5 P2	20	
WHITE/BROWN	8 P1	P	5 P2	21	
WHITE/BLACK/GREEN	8 P1	R	5 P2	12	
WHITE/BLACK/RED	8 P1	M	5 P2	7	
WHITE/BLACK/ORANGE	8 P1	P	5 P2	11	
WHITE/BLACK/YELLOW	8 P1	S	5 P2	6	
WHITE/RED	8 P1	T	5 P2	22	
WHITE/ORANGE	8 P1	U	5 P2	23	
WHITE/YELLOW	8 P1	V	5 P2	24	
WHITE/GREEN	8 P1	W	5 P2	25	

③ MARK ASSY NO. ON STRAP WITH "BOND-O-TOOL" STAMP.

② FC "TYPE" PER SPEC 1199-2036.

① INDICATED WIRES ARE TWISTED PAIR.

NOTES: UNLESS OTHERWISE SPECIFIED

SEE P/L

GLENNSIDE CORPORATION		WESTLAKE PLANT U.S. AMERICA
WESTLAKE VILLAGE, CALIFORNIA 91360		
PROPRIETARY INFORMATION - NOT TO BE REPRODUCED OR DISCLOSED		
CABLE ASSY, EXTERNAL D-2046 1992 E		

8 7 6 5 4 3 2 1

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D-2046 2008 C

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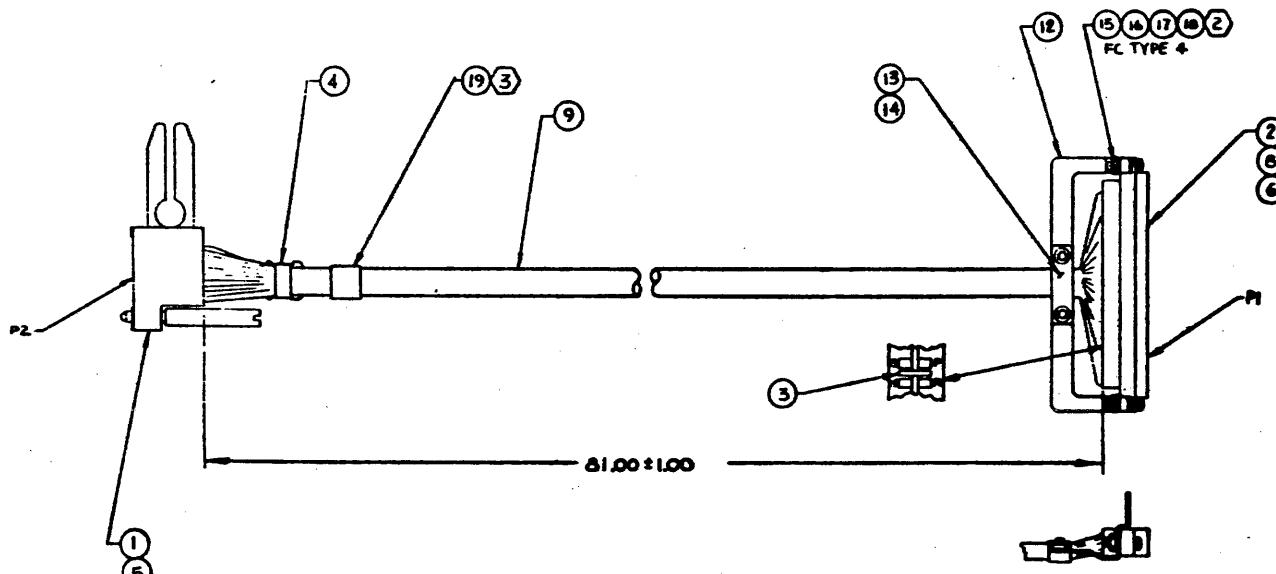
2

1

REFN	ITEM	QTY	DESCRIPTION
A	WIRE HARNESS	1	ASSEMBLY
B	WIRE	1	ASSEMBLY
C	WIRE HARNESS	1	ASSEMBLY
D	WIRE HARNESS	1	ASSEMBLY

RELEASED
 ① ITEM ④ IS 38 PLACES
 HAS 4 PLACES (C5)
 ② 38.00±1.00 HAS
 38.00±.50 (B5)
 ③ TITLE HAS "CABLE
 ASSY, INT 38A"

④ ITEM ④ WAS 38 PLACES
 (C5)
 ⑤ DELETED ITEMS ④ (1)
 (C4, S1)
 ⑥ ADDED COLOR CODE TO
 WIRE MSTR. TABLE.



COLOR	TERMINAL ITEM	CONN. NO.	WIRING INSTRUCTIONS	
			FROM	TO
RED	6	P1	A	7 P2 1
WHITE/BLACK	6	P1	1	7 P2 2
ORANGE	6	P1	2	7 P2 3
WHITE/BLACK/BLACK	6	P1	2	7 P2 4
BROWN	6	P1	C	7 P2 5
WHITE/BLACK/BROWN	6	P1	X	5 P2 10
YELLOW	6	P1	E	5 P2 15
WHITE/BLUE	6	P1	F	5 P2 16
WHITE/VIOLET	6	P1	G	5 P2 17
WHITE/GREY	6	P1	H	5 P2 18
WHITE/BLACK/VIOLET	3	P1	J	5 P2 19
BLUE	2	P1	J	5 P2 20
VIOLET	2	P1	K	5 P2 21
GREY	2	P1	L	5 P2 22
WHITE	2	P1	M	5 P2 23
WHITE/BLACK/BLUE	2	P1	N	5 P2 24
WHITE/BROWN	2	P1	P	5 P2 25
WHITE/BLACK/GREEN	2	P1	R	5 P2 12
WHITE/BLACK/RED	2	P1	S	5 P2 13
WHITE/BLACK/ORANGE	2	P1	T	5 P2 11
WHITE/BLACK/YELLOW	2	P1	U	5 P2 6
WHITE/RED	2	P1	V	5 P2 22
WHITE/ORANGE	2	P1	W	5 P2 23
WHITE/YELLOW	2	P1	X	5 P2 24
WHITE/GREEN	2	P1	Y	5 P2 25

SEND CHARGES TO
 USER PLANTS:
Engineering Dept.

- ④ MARK ASSY NO. ON STRAP WITH "BOND-O-TOOL" STAMP.
 ⑤ FC TYPE PER SPEC 1199-2016.
 ⑥ INDICATED WIRES ARE TWISTED PAIR.

NOTES: UNLESS OTHERWISE SPECIFIED

SITE P/L

GENERAL SPEC. 1145-5042 AND TITLE SHEET LISTS APPLY UNLESS OTHERWISE SPECIFIED		DATE: 1/1/2018
WIRE NUMBERING TERMINALS		MANUFACTURER: BONDOOL
1 - 20 + 21 3 - 22 + 23 5 - 24 + 25 7 - 26 + 27 9 - 28 + 29 11 - 30 + 31 13 - 32 + 33 15 - 34 + 35 17 - 36 + 37 19 - 38 + 39 21 - 40 + 41 23 - 42 + 43 25 - 44 + 45 27 - 46 + 47 29 - 48 + 49 31 - 50 + 51 33 - 52 + 53 35 - 54 + 55 37 - 56 + 57 39 - 58 + 59 41 - 60 + 61 43 - 62 + 63 45 - 64 + 65 47 - 66 + 67 49 - 68 + 69 51 - 70 + 71 53 - 72 + 73 55 - 74 + 75 57 - 76 + 77 59 - 78 + 79 61 - 80 + 81 63 - 82 + 83 65 - 84 + 85 67 - 86 + 87 69 - 88 + 89 71 - 90 + 91 73 - 92 + 93 75 - 94 + 95 77 - 96 + 97 79 - 98 + 99 81 - 100 + 101 83 - 102 + 103 85 - 104 + 105 87 - 106 + 107 89 - 108 + 109 91 - 110 + 111 93 - 112 + 113 95 - 114 + 115 97 - 116 + 117 99 - 118 + 119 		MANUFACTURER: BONDOOL
QC: <i>[Signature]</i> DATE: <i>[Signature]</i>		QC: <i>[Signature]</i> DATE: <i>[Signature]</i>
DRAWN BY: <i>[Signature]</i> DATE: <i>[Signature]</i>		REVISED BY: <i>[Signature]</i> DATE: <i>[Signature]</i>
APPROVED BY: <i>[Signature]</i> DATE: <i>[Signature]</i>		APPROVED BY: <i>[Signature]</i> DATE: <i>[Signature]</i>

CABLE ASSY, INTERNAL

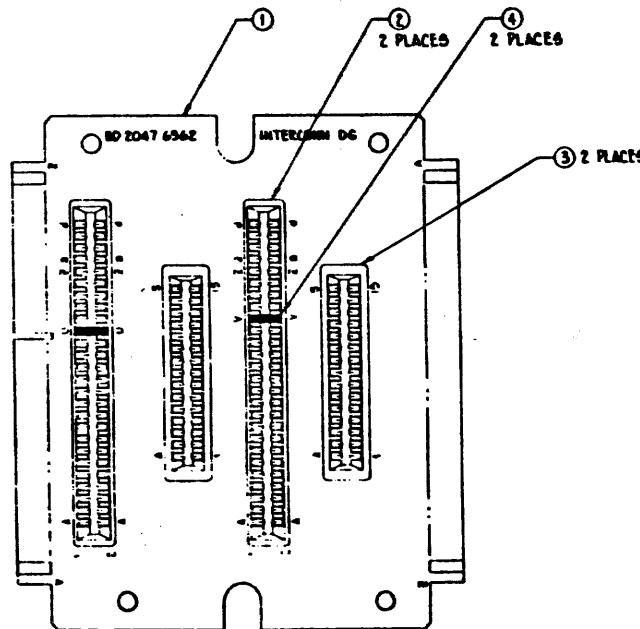
D-2046 2008 C

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A

7

REF ID: A
RELEASED



SEE P/L

J.A. [Signature] 8-26-73
MFG. C/Mfguf 8-26-73

GEN. GEN. SPEC. 1100 0042 AND TITLE BLOCK LEADS APPLY UNLESS OTHERWISE SPECIFIED			
PRINTED	REVISED	APPROVED	DATE
100-1000	100-1000	100-1000	100-1000
M. [Signature] 8-26-73	R. [Signature] 8-26-73	M. [Signature] 8-26-73	R. [Signature] 8-26-73

Burrus Corporation 
100 FLAME PLANT
DEFENSE DIVISIONS GROUP
WESTLAKE VILLAGE, CALIFORNIA 91360
U.S. AMERICA

CD-INTERCONNECT DG D-2047 6954 A

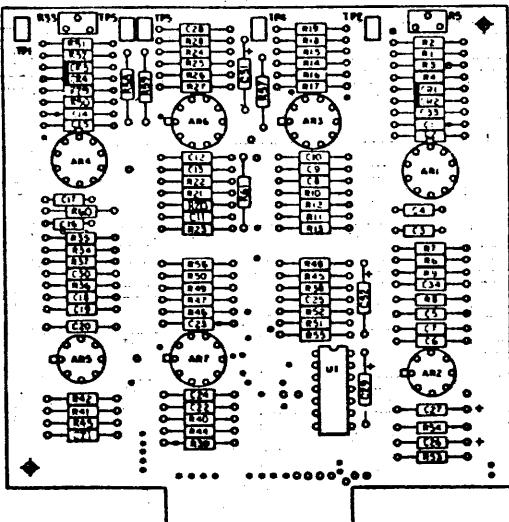
REVISIONS	REVISIONS ARE APPENDED
A	0
RELEASED	

8 7 6 5

D-2048 2253 A

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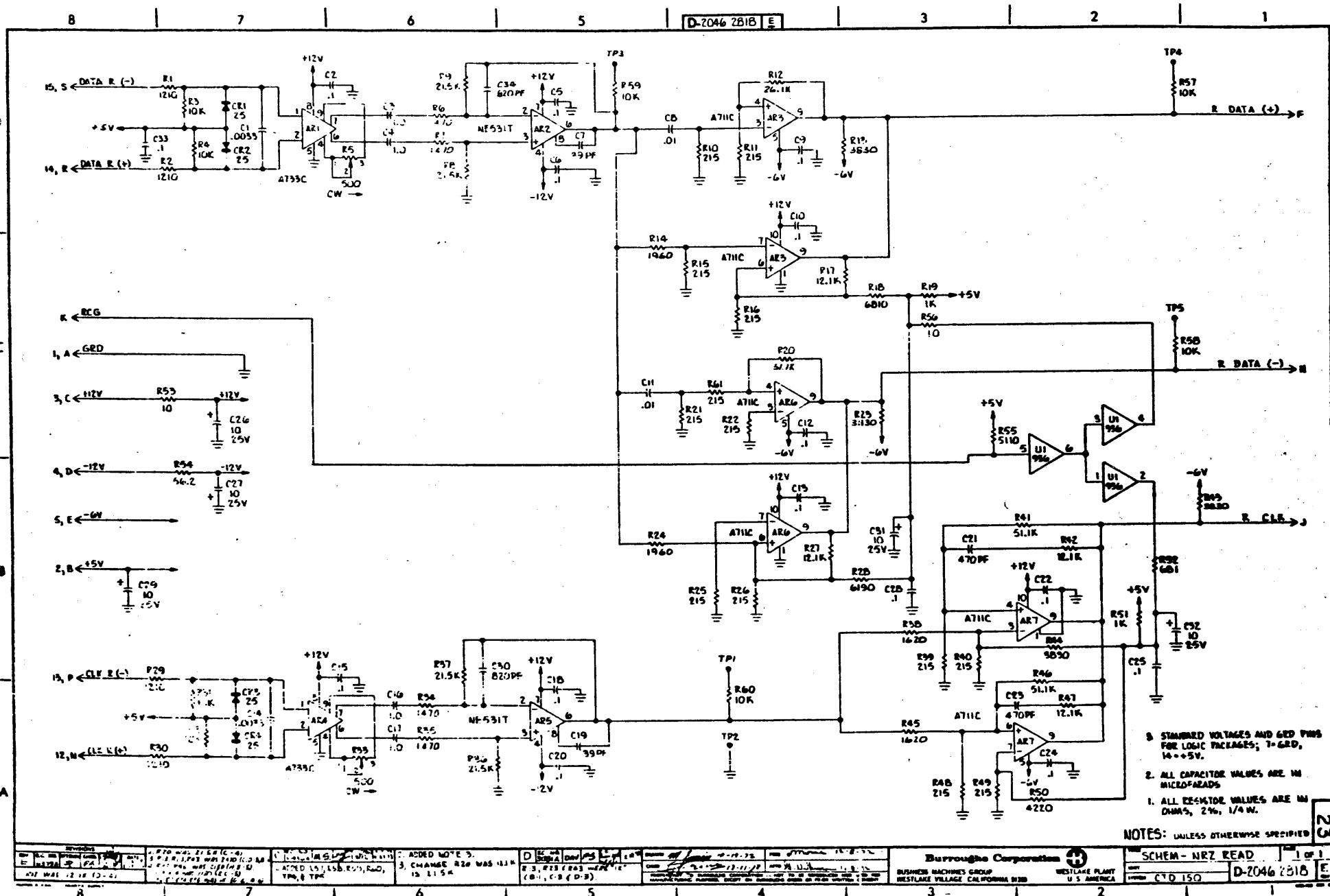
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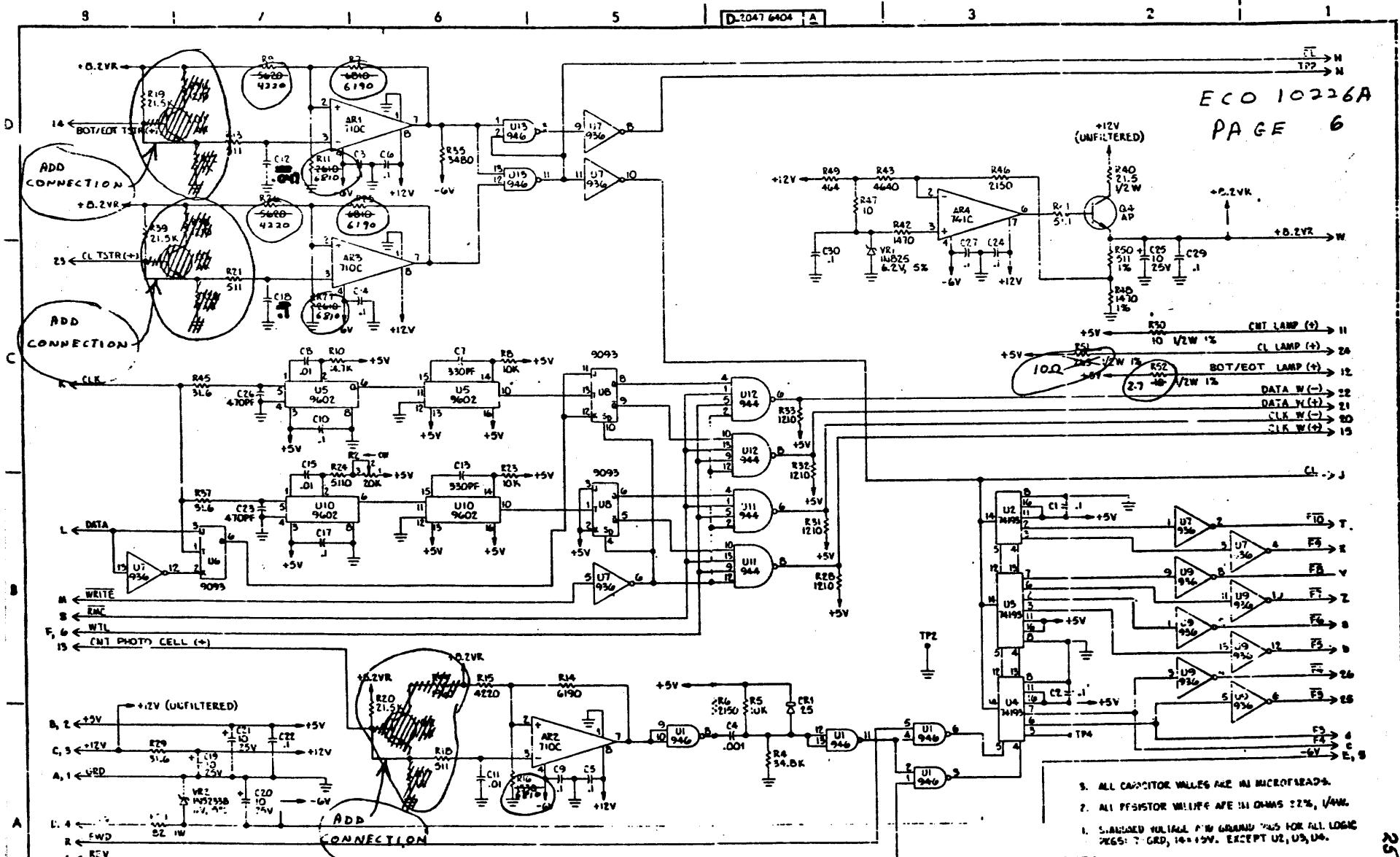


SEE P/L

ECL QML SPEC. 1103 2043 AND TITLE BLOCK LIMITS APPLY UNLESS OTHERWISE SPECIFIED		SCALE: NONE
REF ID:	REV:	DATE:
REVISIONS		TELETYPE:
1. 1/20 1979 2. 1/26 1979 3. 1/26 1979 4. 1/26 1979 5. 1/26 1979 6. 1/26 1979 7. 1/26 1979 8. 1/26 1979 9. 1/26 1979 10. 1/26 1979 11. 1/26 1979 12. 1/26 1979 13. 1/26 1979 14. 1/26 1979 15. 1/26 1979 16. 1/26 1979 17. 1/26 1979 18. 1/26 1979 19. 1/26 1979 20. 1/26 1979 21. 1/26 1979 22. 1/26 1979 23. 1/26 1979 24. 1/26 1979 25. 1/26 1979 26. 1/26 1979 27. 1/26 1979 28. 1/26 1979 29. 1/26 1979 30. 1/26 1979 31. 1/26 1979 32. 1/26 1979 33. 1/26 1979 34. 1/26 1979 35. 1/26 1979 36. 1/26 1979 37. 1/26 1979 38. 1/26 1979		30. 1/26 1979
Barroughs Corporation WESTLAKE VILLAGE, CALIFORNIA 91360 FEDERAL BUREAU OF INVESTIGATION U.S. DEPARTMENT OF JUSTICE		
CD ASY, NRZ READY		D-2048 2253 A

8 7 6 5 4 3 2 1





1. ALL CAPACITOR VALUES ARE IN MICROFARADS.
2. ALL RESISTOR VALUES ARE IN OHMS $\pm 2\%$, 1/4W.
3. STANDARD VOLTAGE FOR GRAIN 705 FOR ALL LOGIC IC'S: 7. GRD, 10 = +5V. EXCEPT U2, U3, U4.

NOTES: UNLESS OTHERWISE SPECIFIED

REVISED	RELEASER	APPROVED	DATE
A			

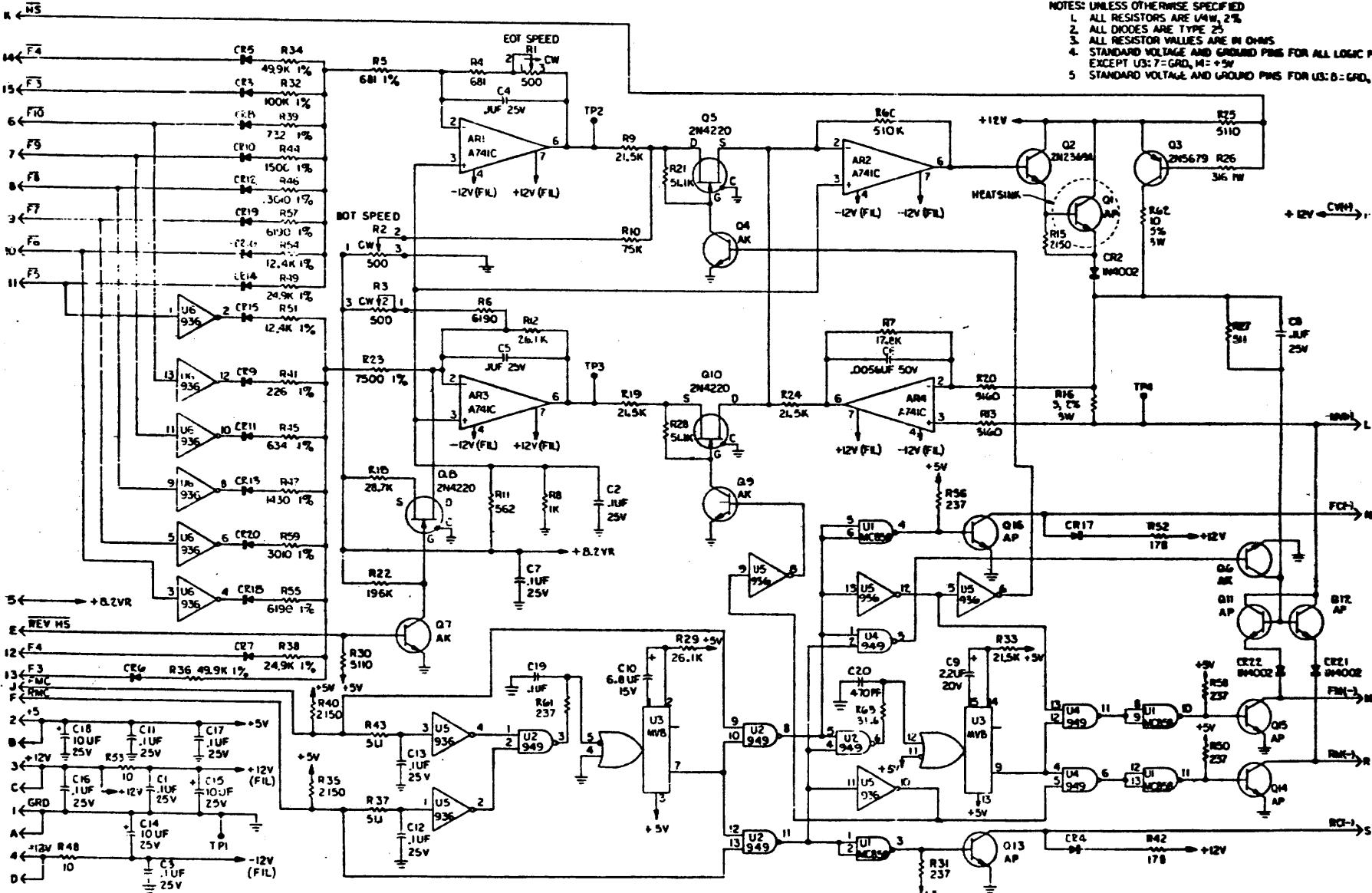
7-10-73	7-10-73

BUREAU OF LABORATORY CORPORATION	3
BUREAU OF LABORATORY CORPORATION MILITARY PLANT MOUNTAIN VIEW, CALIFORNIA 94035	

SCHEN-122 WRITE DG	1 OF 1
D 2047 6404 A	C 10226A

D-2046 4871 E

NOTES: UNLESS OTHERWISE SPECIFIED
 1. ALL RESISTORS ARE 1/4W, 2%
 2. ALL DIODES ARE TYPE 25
 3. ALL RESISTOR VALUES ARE IN OHMS
 4. STANDARD VOLTAGE AND GROUND PINS FOR ALL LOGIC PACKAGES
 EXCEPT U3: 7=GRD, 14=+5V
 5. STANDARD VOLTAGE AND GROUND PINS FOR U3: B=GRD, 16=+5V



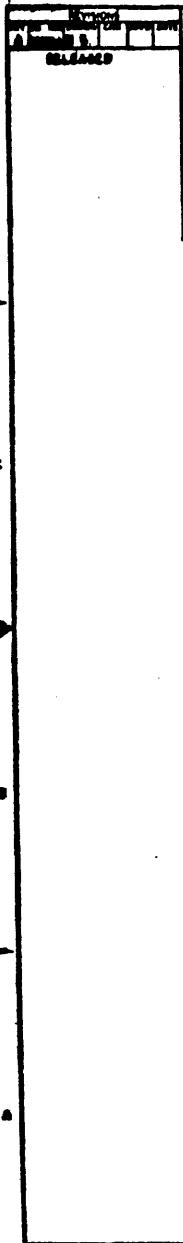
D-2046 4871 E	1. U1 = 5U2, 4.75W, 5% (A-3)	4. U2 = 5U3, 4.75W, 5% (A-3)
1. U3 = 5U4, 4.75W, 5% (A-3)	2. U4 = 5U5, 4.75W, 5% (A-3)	3. U5 = 5U6, 4.75W, 5% (A-3)
4. U6 = 5U7, 4.75W, 5% (A-3)	5. U7 = 5U8, 4.75W, 5% (A-3)	6. U8 = 5U9, 4.75W, 5% (A-3)
7. U9 = 5U10, 4.75W, 5% (A-3)	8. U10 = 5U11, 4.75W, 5% (A-3)	9. U11 = 5U12, 4.75W, 5% (A-3)

Rev 1-10-72
Mfg 11-72
D-2046 4871 E

11-72
11-72
11-72
11-72

Burroughs Corporation
BUSINESS MACHINES GROUP
WESTLAKE VILLAGE, CALIFORNIA 91360
WESTLAKE PLANT
U.S. AMERICA

SCHEM - SERVO 10/30IPS TOP!
Rev 1
Mfg 11-72
D-2046 4871 E

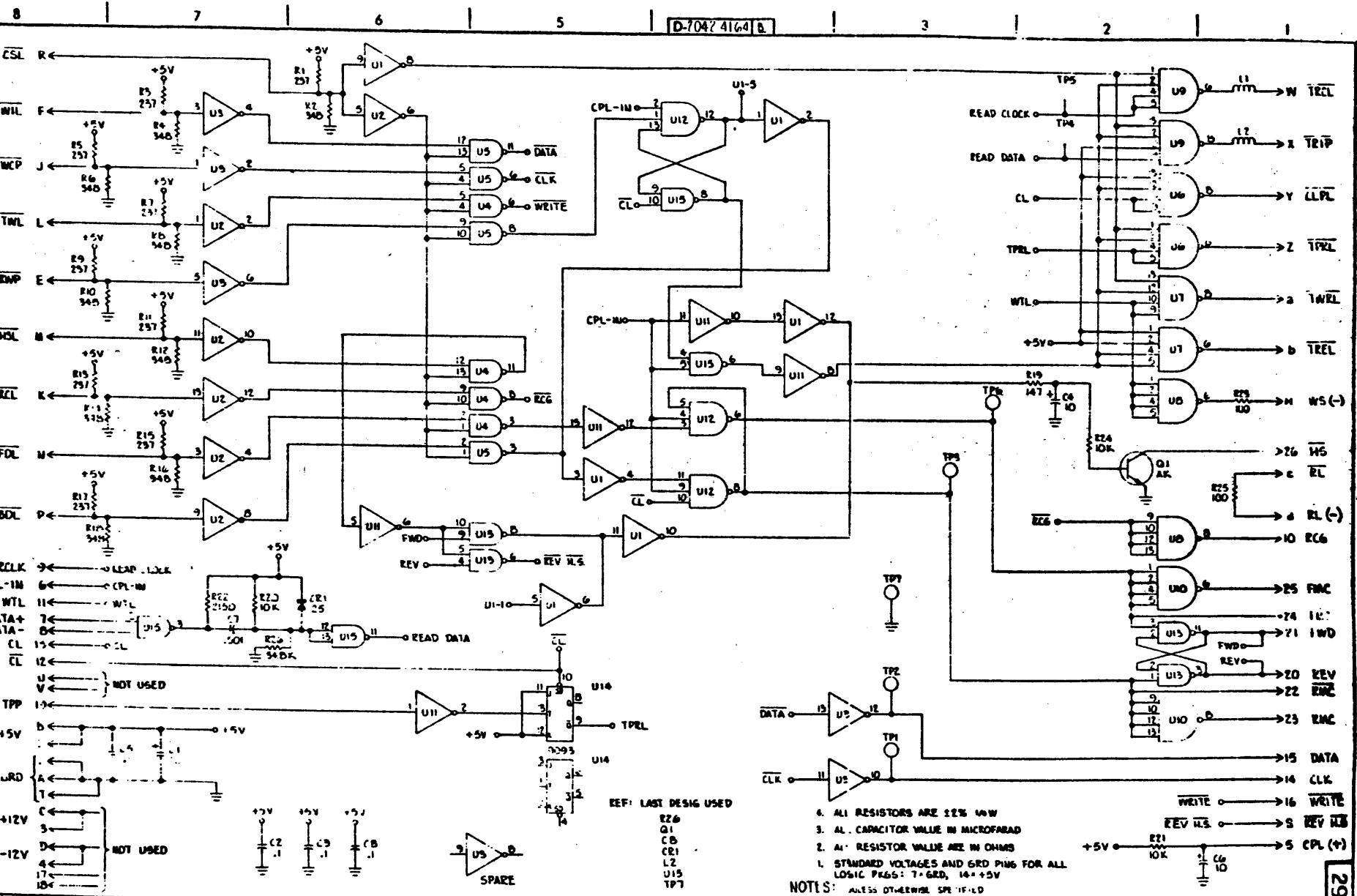


D-2047 1034 A

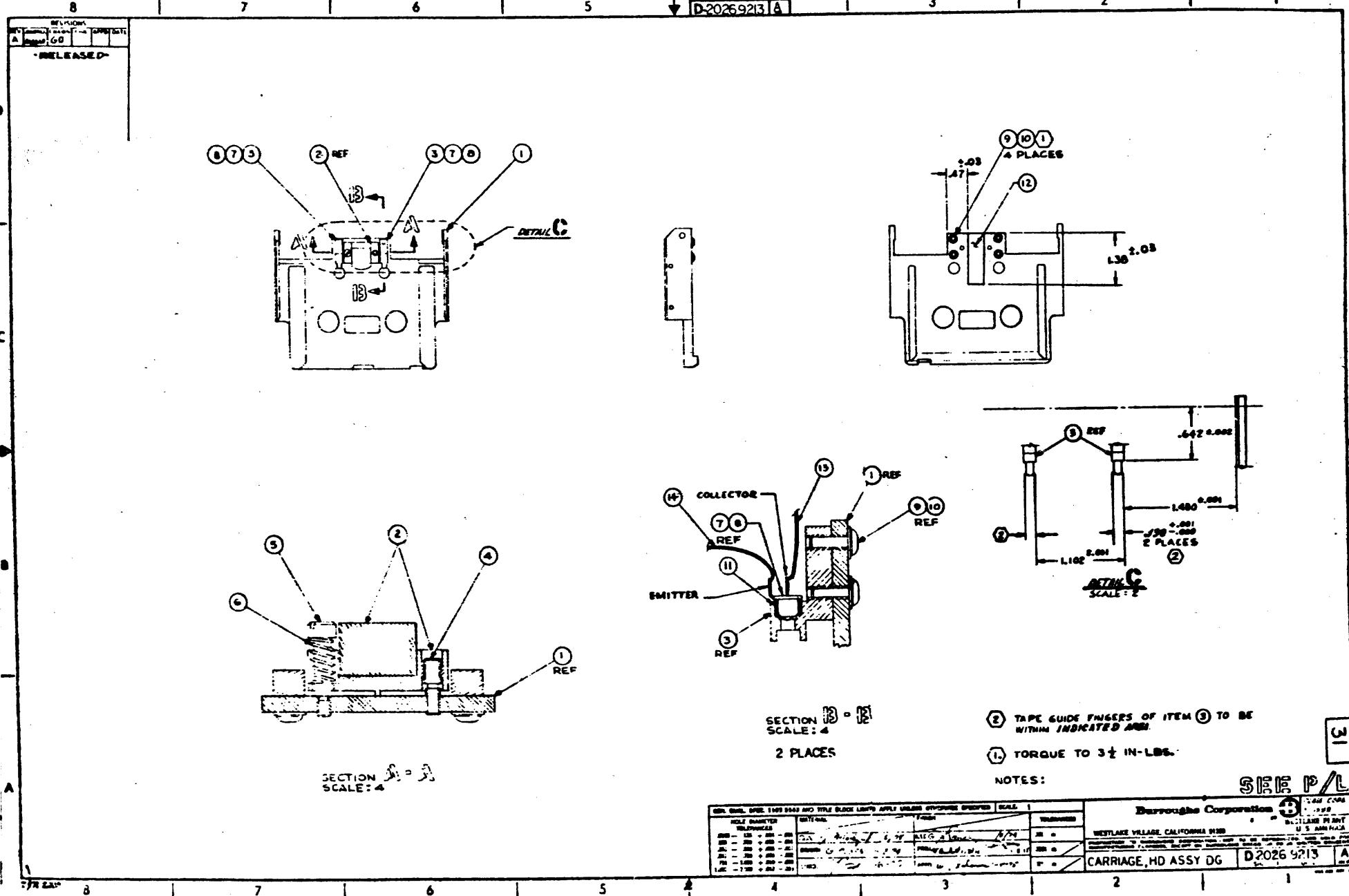
REF ID	REFERENCE DESIGNATION
1	U1, U2, U3, U11
2	U6, U7, U8, U10
3	U4, U5, U13, U19
4	U18
5	U16
6	C1, C4, C6
7	C2, C3, C5, C8
8	C7
9	CRI
10	L1, L2
11	E1, E2, E3, E5, E6, E7, E11, E13, E15, E17
12	E2, E4, E6, E8, E10, E12, E14, E16, E18
13	E20, E21, E24
14	E19
15	E22
16	E23, E25
17	TP (THRU TPI)
18	Q1
19	TSTB, P00, Q1
20	E26

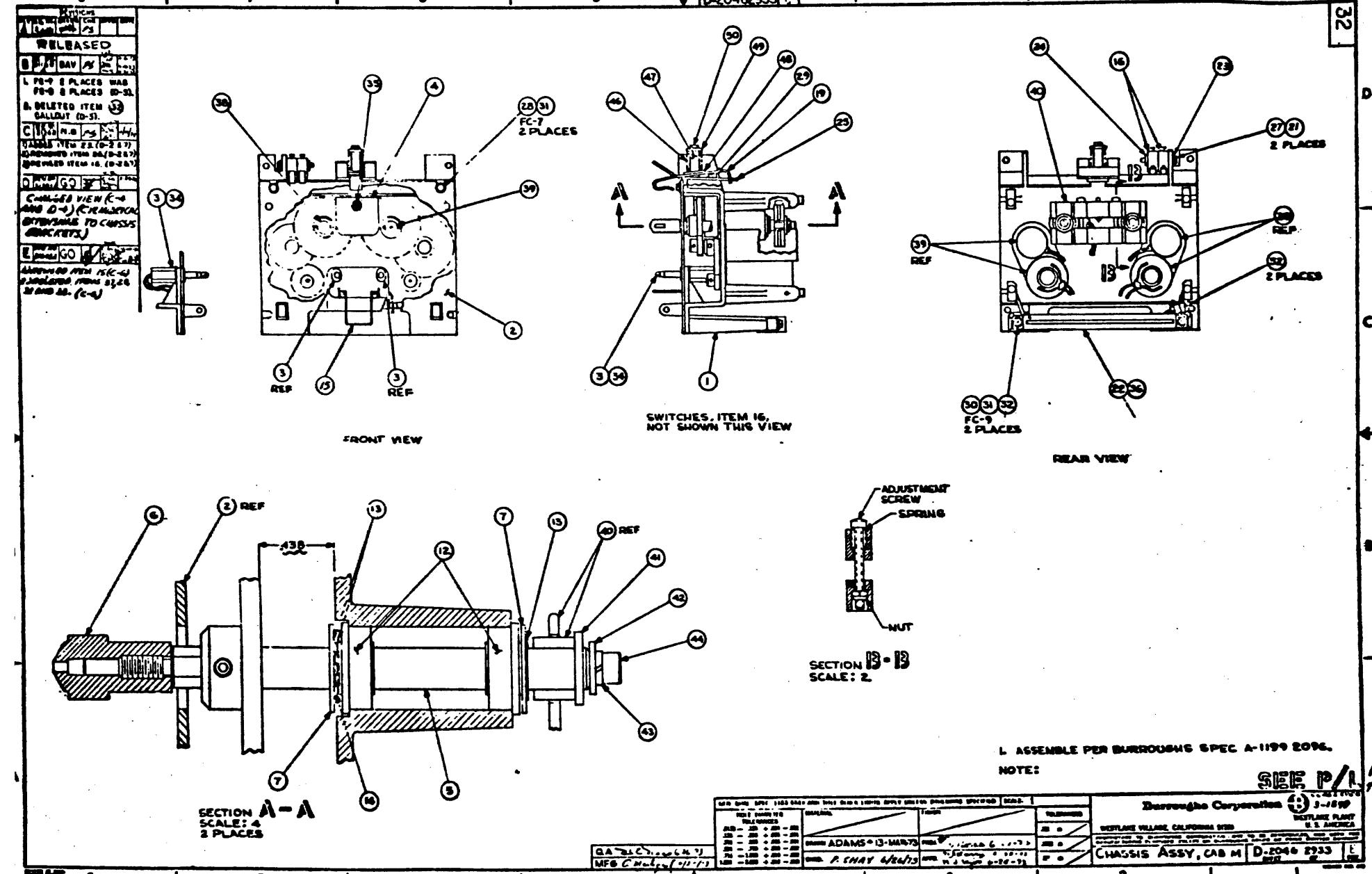
SEE PL

DRAFTS: SPEC. 1100 0049 AND THIS DRAWING IS APPROVED FOR PRODUCTION USE		NAME	Engineering Corporation	
DATE: 01/15/73		DESIGNER	DALLAS PLANT U.S. AMERICA	
DRAWN BY: J. M. HARRIS 1/15/73		APPROVED	MANUFACTURED BY: DALLAS PLANT U.S. AMERICA	
CHECKED BY: J. M. HARRIS 1/15/73		REVIEWED	PRINTED BY: DALLAS PLANT U.S. AMERICA	
REVISED BY: J. M. HARRIS 1/15/73		APPROVAL	CD - LOGIC 10/30 11/3	
DRAFTS: SPEC. 1100 0049 AND THIS DRAWING IS APPROVED FOR PRODUCTION USE		NAME	Engineering Corporation	
DATE: 01/15/73		DESIGNER	DALLAS PLANT U.S. AMERICA	
DRAWN BY: J. M. HARRIS 1/15/73		APPROVED	MANUFACTURED BY: DALLAS PLANT U.S. AMERICA	
CHECKED BY: J. M. HARRIS 1/15/73		REVIEWED	PRINTED BY: DALLAS PLANT U.S. AMERICA	
REVISED BY: J. M. HARRIS 1/15/73		APPROVAL	CD - LOGIC 10/30 11/3	



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NOT USED	CONNECTED +5V TO U6-15, U7-14-2, U9-10	NOT USED														





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COMPUTER SYSTEMS GROUP DOWNTON PLANT DOWNTON, PENNSYLVANIA 19335						
PREPARED BY <i>J. LOVRENCEVIC</i>	APPROVED BY <i>L. SHAPIRO</i>	TITLE ACU/HDB WIRE STRAP MODULE MODIFICATION SPECIFICATION				
H. B. MARX		ORIGINAL RELEASE DATE	5-25-76	PAGE 1 OF 4		

REVISIONS						
LEVEL	DESCRIPTION	DATE	APPROVED			
A 2608 1869	Initial Release ER91Rev54					

B 700

Serial No. B50320-038

Burroughs

SS-DP

**FIELD TEST
AND
REFERENCE DOCUMENT**

1449 1807

REVISION *SD*

B-711

TAPE CASSETTE CONTROL



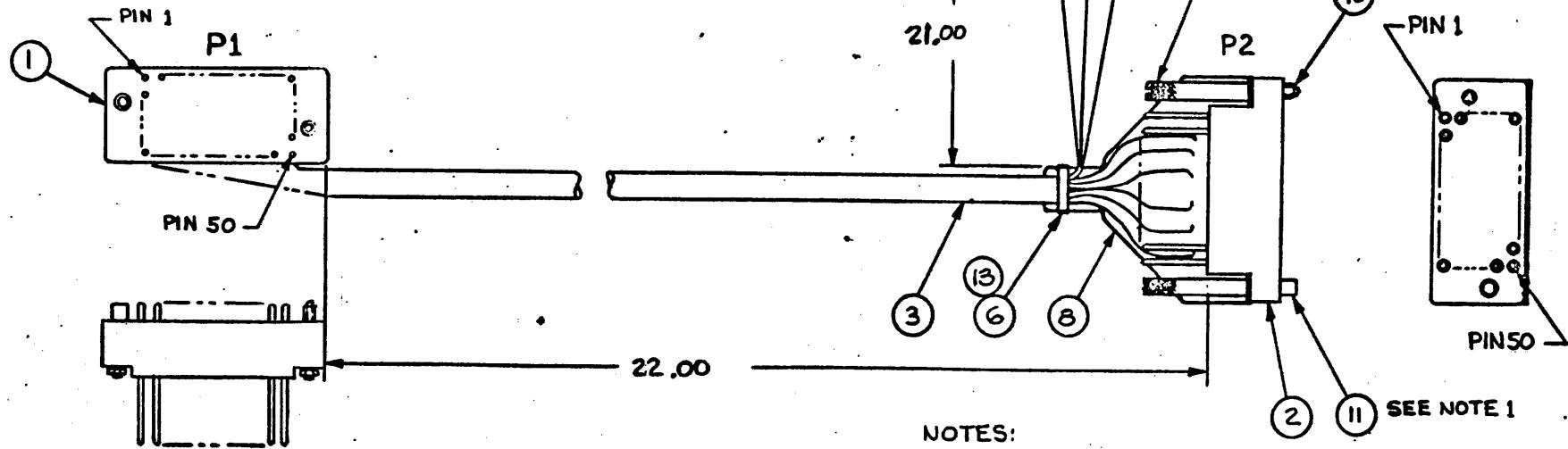
PROPERTY OF AND TO BE RETURNED TO

Burroughs

PAGE NUMBER	DOCUMENT NUMBER	DOCUMENT NAME	REVISION LEVEL
1-2	1449 0288	WIRE LIST, ADAPTER CABLE	D
3-5	1448 9124	LOGIC SCHEMATIC, TC1	ECN 2089 G1 8P
6-7	1448 9157	LOGIC SCHEMATIC, TC2	D
8-10	1448 9090	LOGIC SCHEMATIC, TC3	D
11-12	1449 0338	LOGIC SCHEMATIC, TC4	E
13-16	1449 0700	CIRCUIT LIST, CONTROL, TC	AA
17-18	1449 7804	FIELD INSTALLATION INSTRUCTIONS (B711/B705)	A
19-20	2601 7392	FLD INST INSTR (B711 PROCESSOR)	A
BURROUGHS SS-DP			
FIELD TEST AND REFERENCE DOCUMENT			
1449 1007			
			
TAPE CASSETTE CONTROL			

PRODUCTION

DWG NO	1449 0288
SHEET 1 OF 2	
RELEASED BY	9-21-72
A ECN 1131	ECN 1131
B ECN 1150	ECN 1150
C ECN 1163	ECN 1163
D ECN 1179	ECN 1179



NOTES:

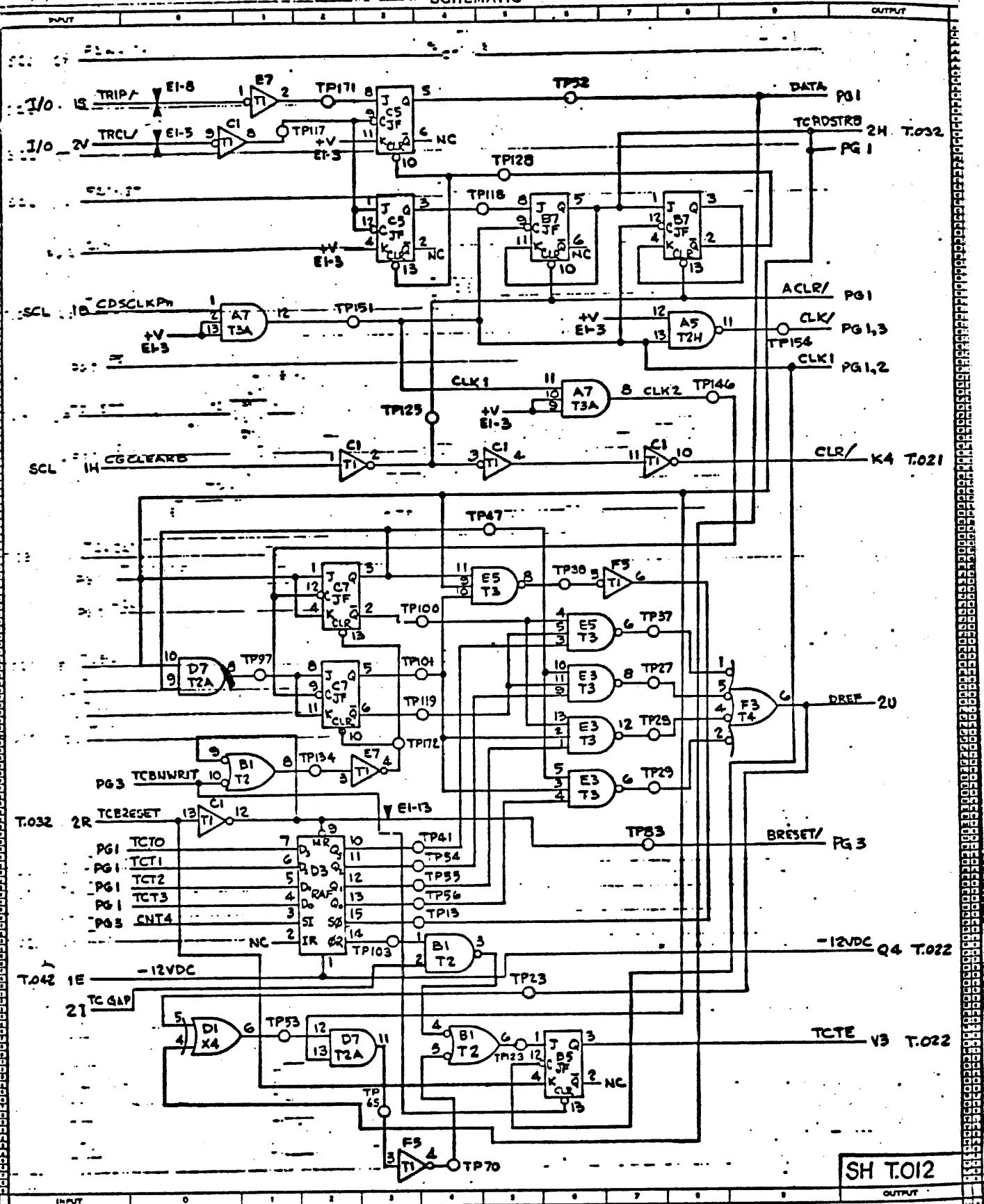
1. APPLY LOCTITE TO STRAIGHT KNULED SECTION OF ITEMS 10 & 11. - NO LOCTITE PERMISSIBLE ON ITEMS 2 & 8.
2. WIRE P1 & P2 BEFORE ASSEMBLING ITEMS 8, 9, 10, & 11.

CC-2-1522

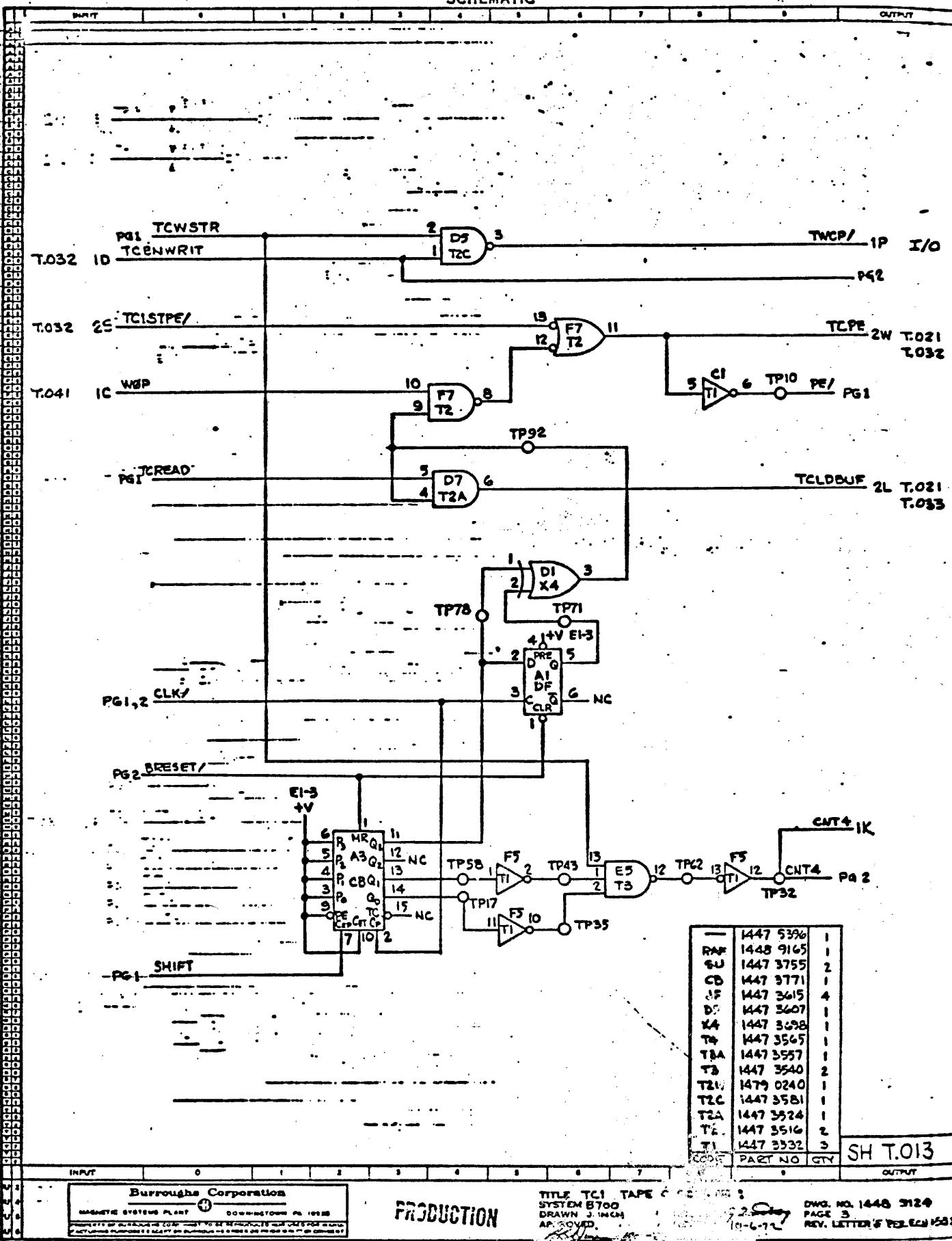
GEN QUL SPEC 1183 5543 APPLY

TOLERANCES UNLESS OTHERWISE NOTED XXX ± — XX ± .75 ANGLES ± — ° —		DRAWN C.L.BISCHOFF	DATE 9-1-72	Burroughs Corporation MAGNETIC SYSTEMS PLANT DOWNTOWN, PA. 19338, U.S.America
MATERIAL		CHECKED <i>R.W.S.</i>	DATE 9-1-72	
HEAT TREATMENT		DSGN OR ENGR <i>E.Boswell</i>	DATE 9-1-72	
SURFACE TREATMENT		APPROVED <i>M.Murphy</i>	DATE 9-1-72	TITLE ADAPTER CABLE, TAPE CASSETTE
PROPRIETARY TO BURROUGHS CORP. — NOT TO BE REPRODUCED, NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT		SCALE —	SHEET 1 OF 2	DWG NO 1449 0288

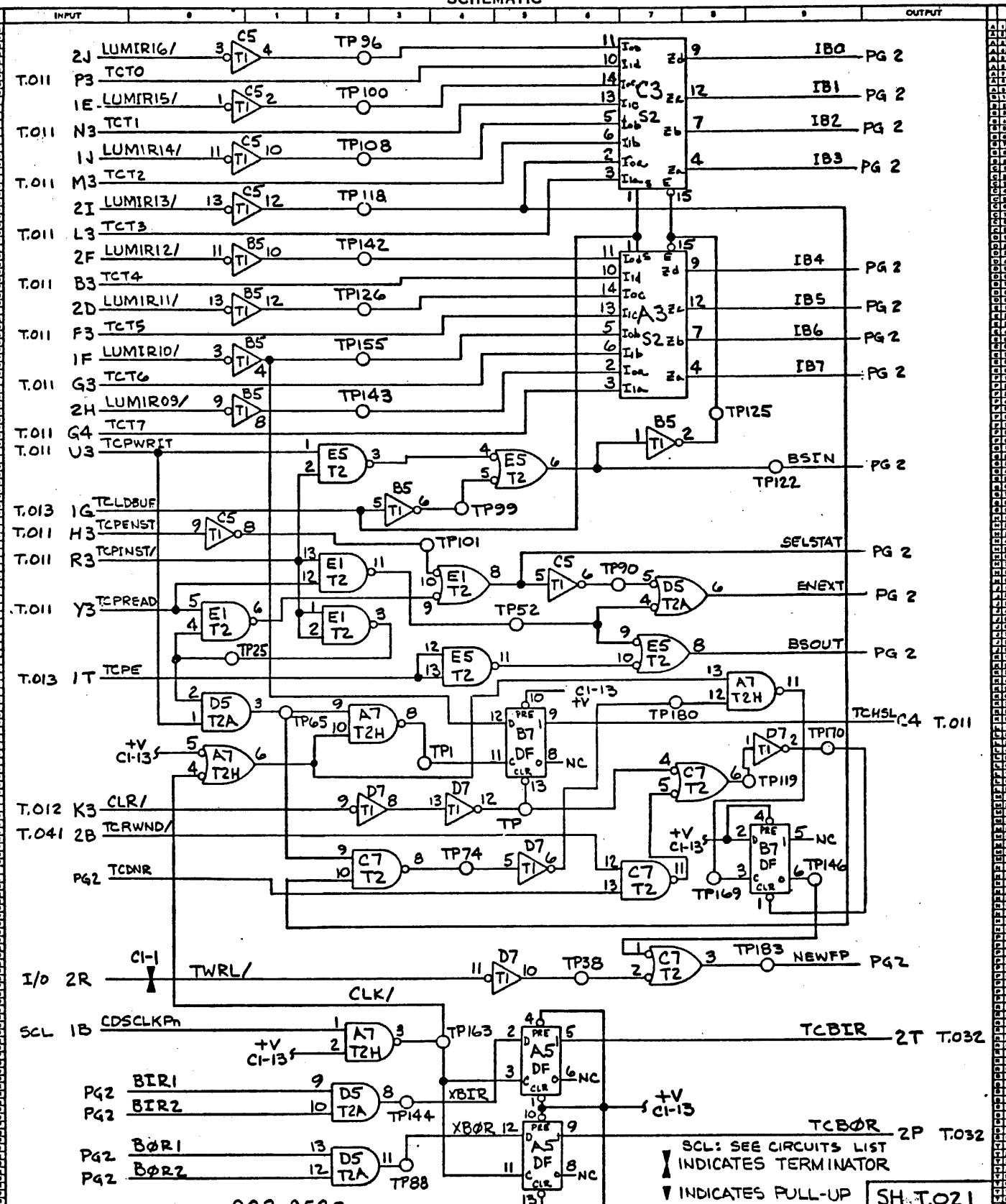
SCHEMATIC



SCHEMATIC



SCHEMATIC



TITLE TC2 TAPE CASSETTE 2

SYSTEM B700
DRAWN 2.W. 8-16-71 CHECKED 7.1.2 8-31-72
APPROVED S. DUNERMAN RELEASED 10-6-72

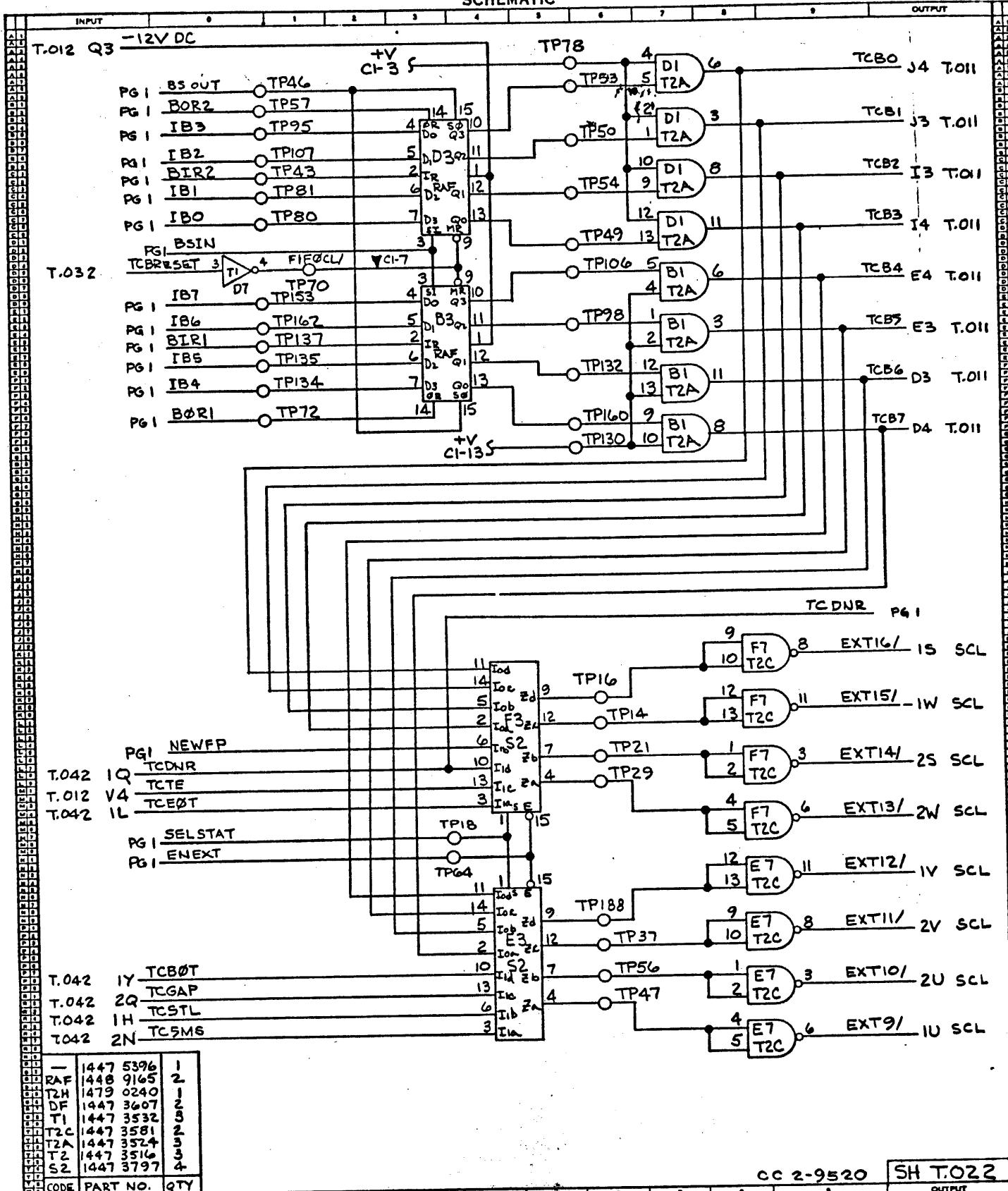
DWG. NO. 1448 9157

PAGE 1 OF 2

REV. LETTER D PER ECU 1211

JULY 25 1973

SCHEMATIC



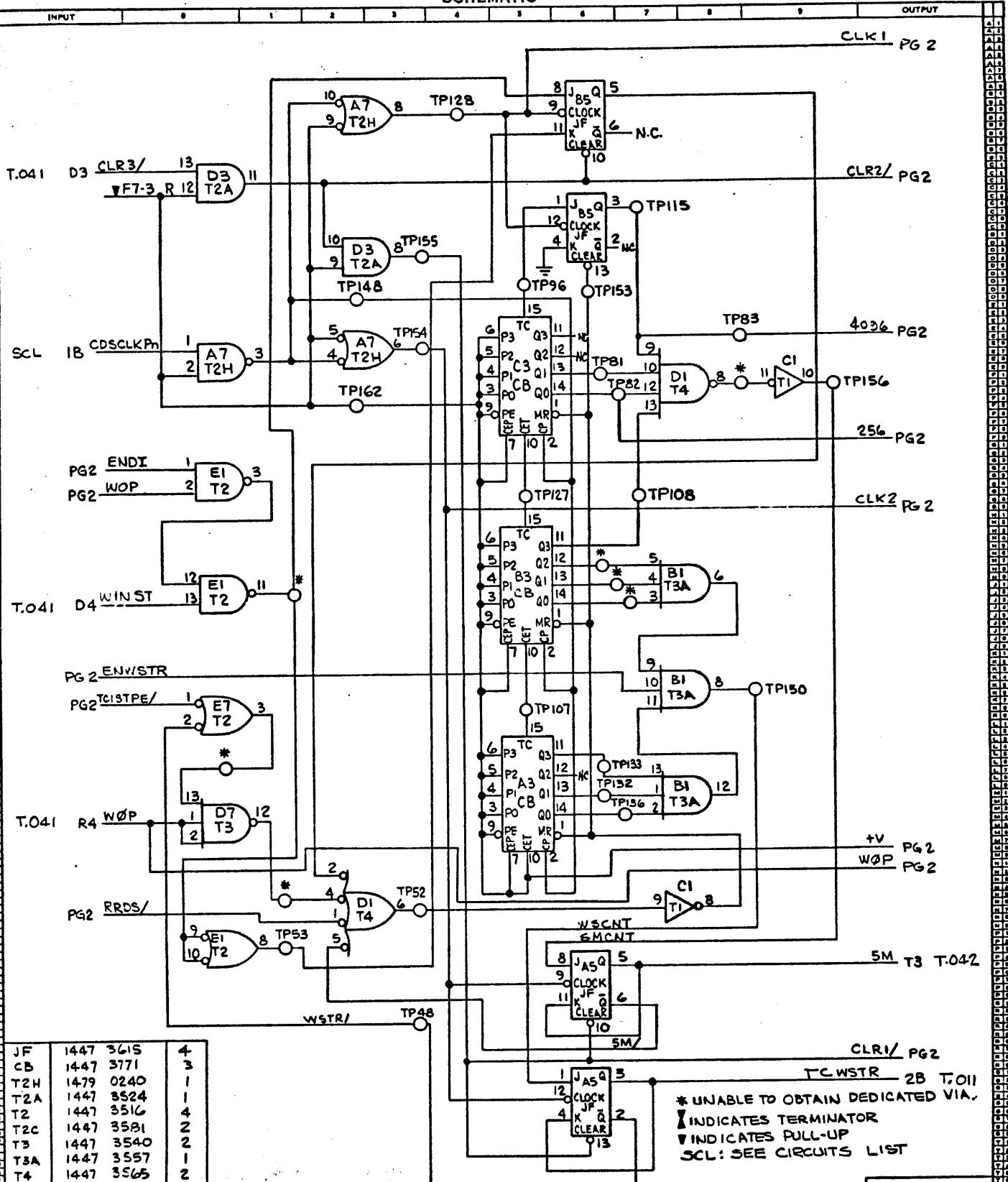
INPUT	0	1	2	3	4	5	6	7	8	9	OUTPUT
Burroughs Corporation											
MAGNETIC SYSTEMS PLANT	DOWNTON, PA 16926										
PROPERTY OF BURROUGHS CORP. NOT TO BE REPRODUCED NOR USED FOR MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT											

PRODUCTION

TITLE TC2 TAPE CASSETTE 2

SYSTEM 5700
DRAWN BY: S-28-72 CHECKED- J.M.C. 8-31-72 PAGE 2
APPROVED BY: D. DINEMAN RELEASED 10-6-72 REV. LETTER D PEB ECU1311
J-1-25-73

SCHEMATIC



JF	1447	3615	4
CB	1447	3771	3
T2H	1447	0240	1
T2A	1447	3524	1
T2	1447	3516	4
T2C	1447	3581	2
T3	1447	3540	2
T3A	1447	3557	1
T4	1447	3565	2
T1	1447	3532	2
CODE	PAR# NO.	QTY	-

CC 2-9520 SH T.031

Burroughs Corporation

MAGNETIC SYSTEMS PLANT
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MANUFACTURING PLANTS EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT

TITLE TCB TAPE CASSETTE 5

SYSTEM DRAWN 2/24/72 CHECKED 3/11/72
APPROVED RELEASED 10-6-72

DWG. NO. 1448 9090

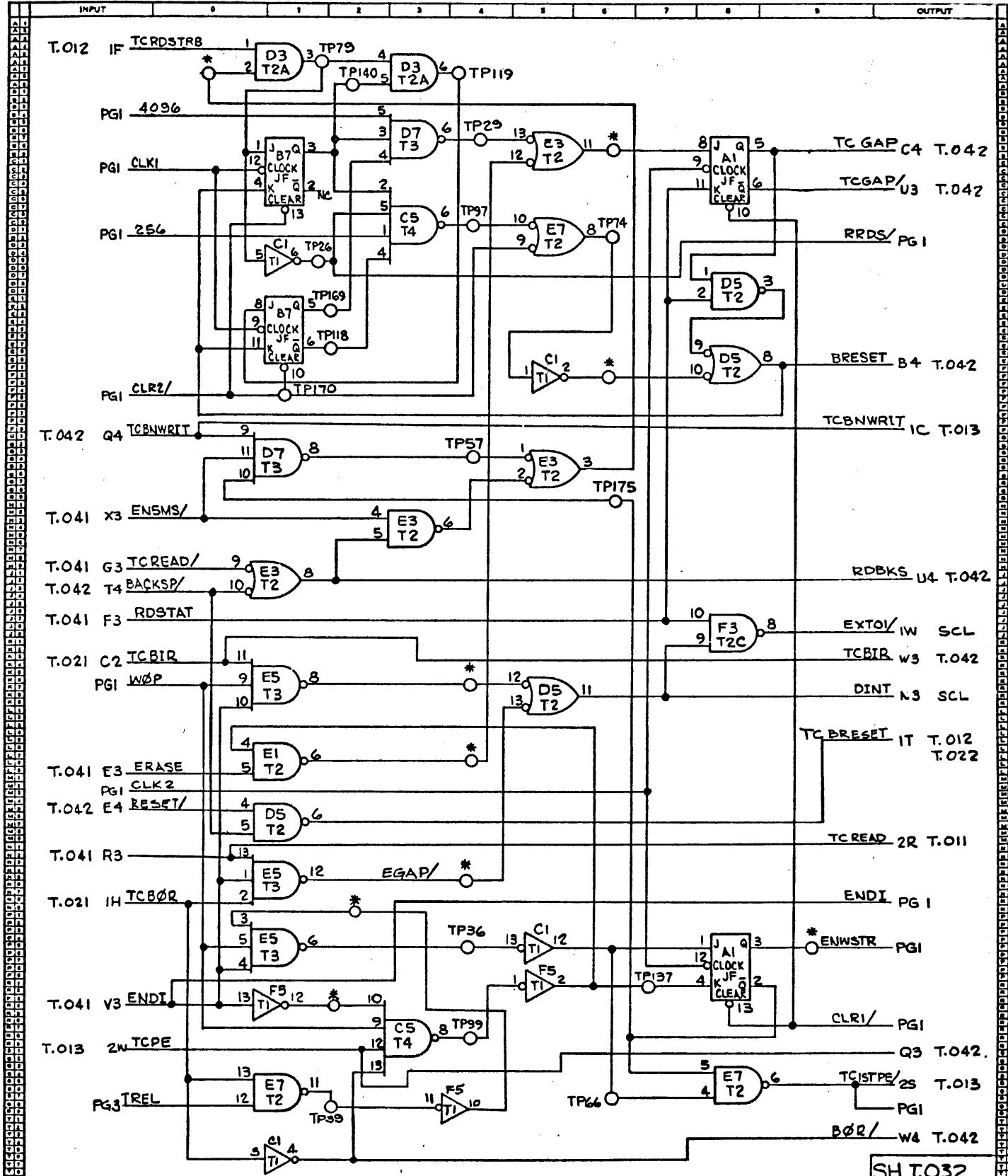
PAGE 1 OF 3

REV. LETTER D PER ECH 311

11-15-73 (BLW)

PRINTED IN U.S.A.

SCHEMATIC



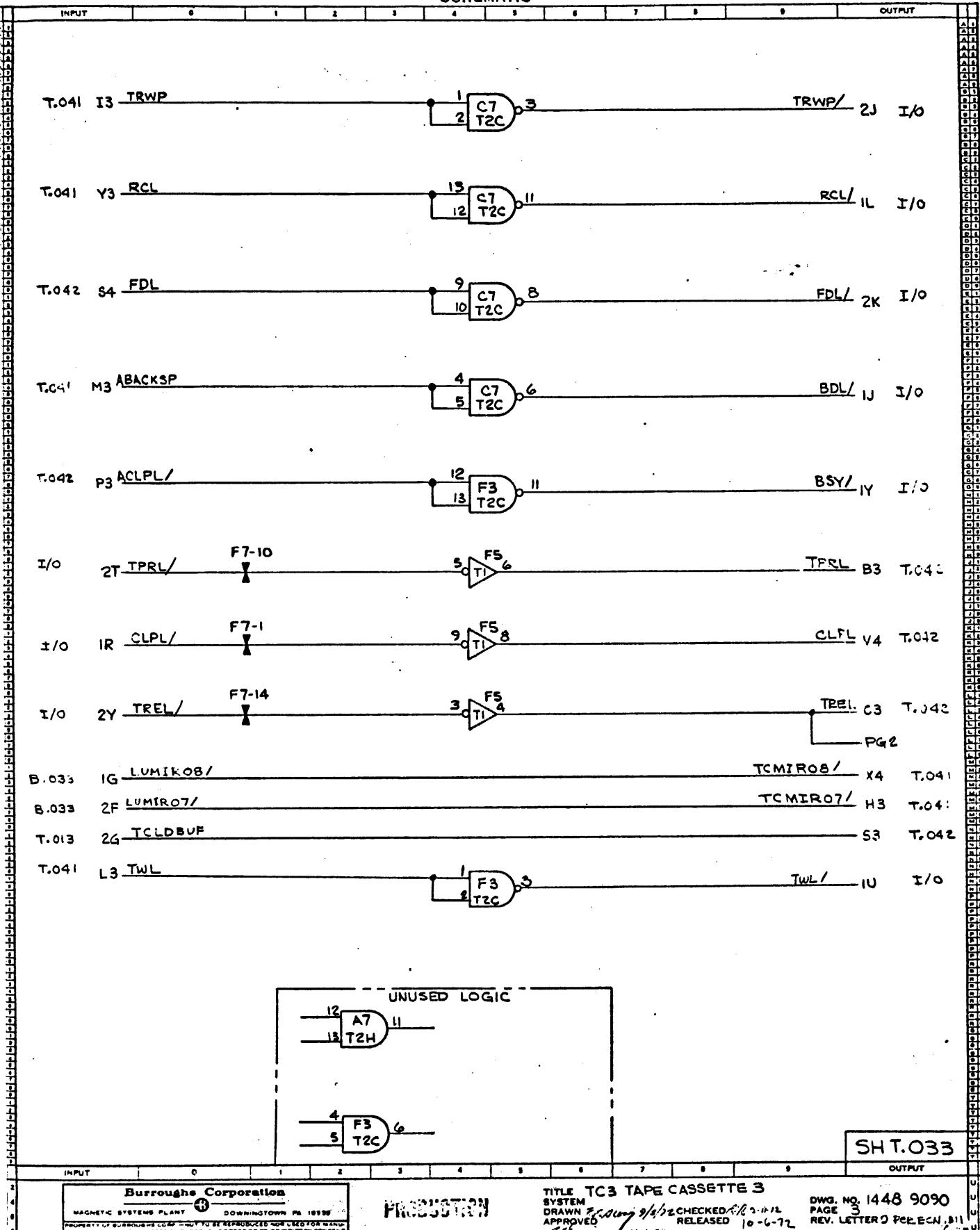
INPUT 0 1 2 3 4 5 6 7 8 9 OUTPUT
 U2
 U4
 U6
 U8
 Burroughs Corporation
 MAGNETIC SYSTEMS PLANT DOWNINGTOWN, PA. 19338
 PROPERTY OF BURROUGHS-COMBINE NOT TO BE REPRODUCED WITHOUT WRITTEN CONSENT
 MANUFACTURING PURPOSES EXCEPT ON BURROUGHS ORDER OR PRIOR WRITTEN CONSENT

PRODUCTION

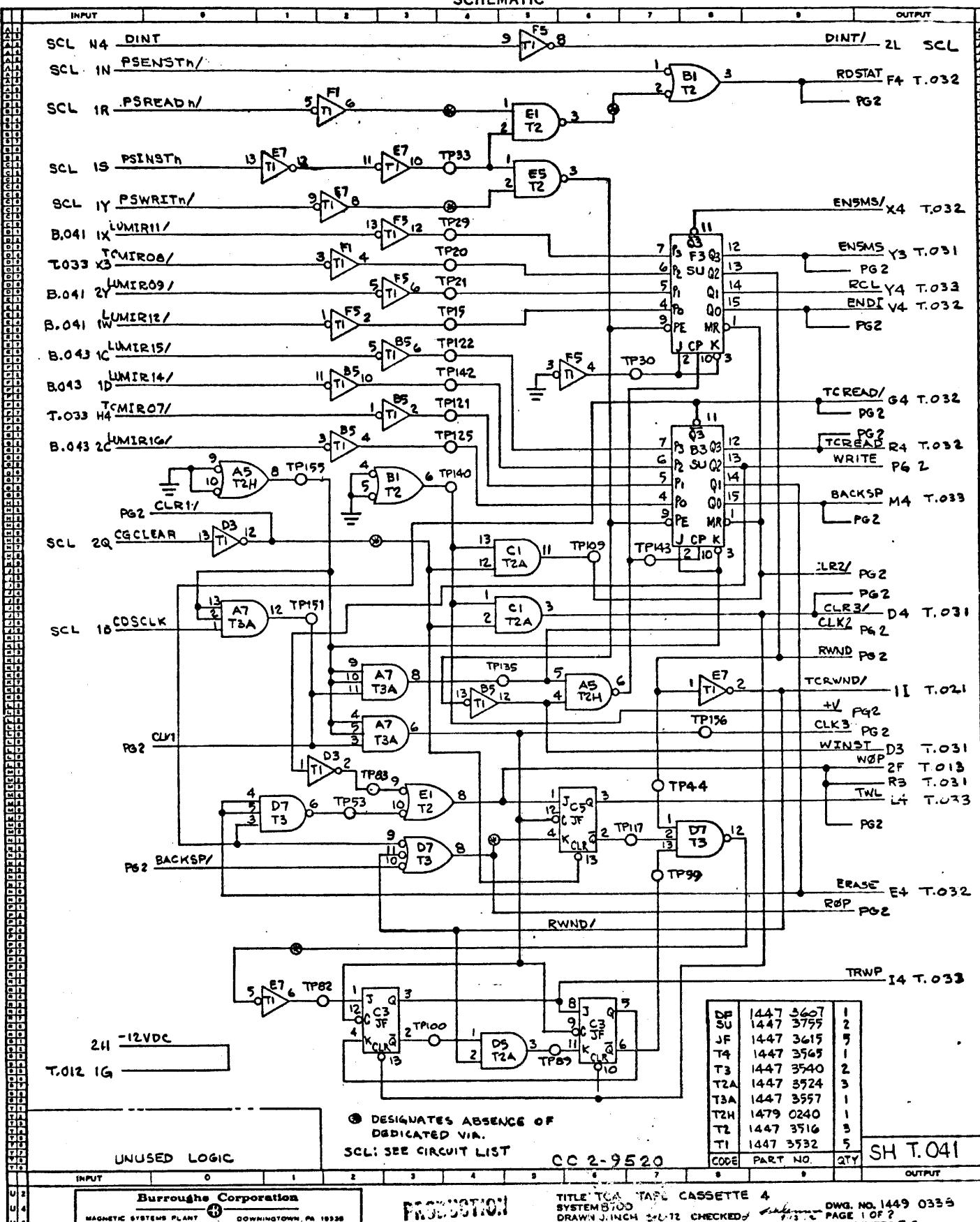
TITLE: TC3 TAPE CASSETTE 3
 SYSTEM: *RE*
 DRAWN: *RE* 9/5/72
 APPROVED: *RE*
 RELEASED: 10-6-72

DWG. NO. 1448 9090
 CHECKED *RE* 9/5/72 PAGE 2
 REV. LETTER D PER E&M 1311
 3/15/73

SCHEMATIC

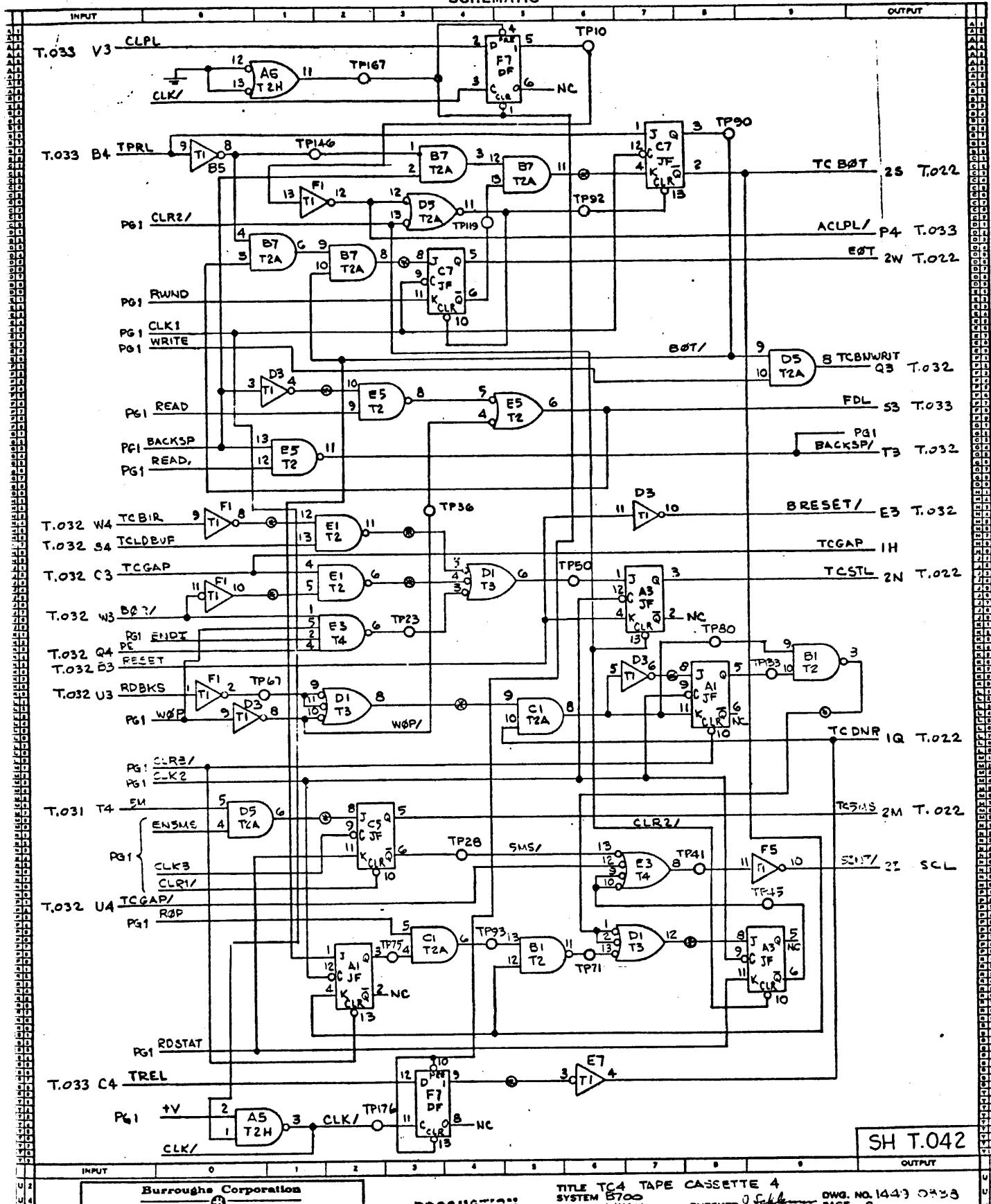


SCHEMATIC



U1	INPUT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
U2	Burroughs Corporation	PRODUCTION																																								
U3	MAGNETIC SYSTEMS PLANT DOWNTOWN, PA 19330	TITLE: TCA TAPE CASSETTE 4																																								
U4	PROPERTY OF BURROUGHS CORP. NOT TO BE REPRODUCED OR USED EXCEPT FOR MANUFACTURING PURPOSES OR AS PART OF BURROUGHS EQUIPMENT OR PRIOR WRITTEN APPROVAL	SYSTEM 8100 DRAWN J. INCH 2-L-12 CHECKED 9-1-72 RELEASED 10-6-72																																								
U5	DWG. NO. 1449 033-3 PAGE 1 OF 2 REV. LETTER E PER ECH-111																																									
U6	1-11 PRINTED IN U.S.A.																																									

SCHEMATIC



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PROGRESS REPORT
10-6-72

TITLE TC4 TAPE CASSETTE 4
SYSTEM 5700
DRAWN J. INGH
APPROVED
RELEASED 10-6-72

DWG. NO. 1443 0333
PAGE 2
REV. LETTER E PER GLU 311
EX-331

PRINTED IN U.S. AMERICA

Burroughs Corporation

SMALL SYSTEMS PLANT
DOWNTOWN, PENNSYLVANIA 19339



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CONSENT.

NUMBER

1449 0700

PREPARED BY

J. Wigle

APPROVED BY

B. Dineen 3-14-73

TITLE

OVERLAY CIRCUIT LIST

TAPE CASSETTE CONTROL - TC

ORIGINAL RELEASE DATE

2/16/73

PAGE 1 OF

REVISIONS

LEVEL	DESCRIPTION	DATE	APPROVE
	NOTE: SHEET 2 IS E.D.P. PRINT-OUT OF 3 SHEETS.	4-5-73	E12#

-SIGNAL- --PIN LOCATION-- LEVEL -CARD GLOSSARY NAME
 MNEMONIC -FROM- --TO-- -Z-Z- --NO--

SCHM
PG

RDY/	OLBE-3C	OLKE-2J	00010
BSY/	OLBE-2E	OLKE-2Y	00020
CDSCLKP	OLKE-0B	OLKE-2B	00030
CDSCLKP	OLKE-2B	OLKE-4B	00040
CDSCLKP	OLKE-4B	OLKE-6B	00050
CDSCLKP	OLKE-6B	PADQ-0B	00060
CGCLEAR	OLKE-1Q	OLKE-6H	00070
CLPL/	OLBE-5C	OLKE-2R	00080
CNT4	OLBE-3F	OLKE-6K	00090
DINT/	OLKE-1L	OLKE-7N	00100
DREF	OLBE-5B	OLKE-7U	00110
EXT01/	OLKE-2W	PAFS-2Q	00120
EXT09/	OLKE-4U	PAFS-8L	00130
EXT10/	OLKE-5U	PAFS-8G	00140
EXT11/	OLKE-5V	PAFS-8P	00150
EXT12/	OLKE-4V	PAFS-8Q	00160
EXT13/	OLKE-5W	PAFT-1L	00170
EXT14/	OLKE-5S	PAFT-1G	00180
EXT15/	OLKE-4W	PAFT-1P	00190
EXT16/	OLKE-4S	PAFT-1Q	00200
FDL/	OLBE-2C	OLKE-3K	00210
HSL/	OLBE-3B	OLKE-7Q	00220
LUMIR07/	OLKE-3F	PAFS-5S	00230
LUMIR08/	OLKE-2G	PAFS-4S	00240
LUMIR09/	OLKE-1Y	OLKE-5H	00250
LUMIR10/	OLKE-4F	PAFS-8S	00260
LUMIR11/	OLKE-0X	OLKE-5D	00270

1449 0700

80392 TAPE CASSETTE CONTROL - TC

CODE 73

-SIGNAL- MNEMONIC	--PIN LOCATION-- -FROM- --TO--	LEVEL -Z-Z-	-CARD --NO--	GLOSSARY NAME
----------------------	--	----------------	-----------------	---------------

SCH
P

LUMIR12/	OLKE-0H	OLKE-5F	00280
LUMIR13/	OLKE-5I	PAFT-0S	00290
LUMIR14/	OLKE-0D	OLKE-4J	00300
LUMIR15/	OLKE-0C	OLKE-4E	00310
LUMIR16/	OLKE-1C	OLKE-5J	00320
PSENST/	OLKE-0N	OLKE-6V	00330
PSINST	OLKE-0S	OLKE-6U	00340
PSREAD/	OLKE-0R	OLKE-7T	00350
PSWRIT/	OLKE-0Y	OLKE-7X	00360
RCL/	OLBE-6A	OLKE-2L	00370
SHIFT	OLBE-4D	OLKE-7E	00380
SINT/	OLKE-1I	PADP-8P	00390
TCBIR	OLBE-3A	OLKE-3C	00400
TCBIR	OLKE-3C	OLKE-5T	00410
TCBNWRIT	OLKE-2C	OLKE-6D	00420
TCBOR	OLKE-2H	OLKE-5P	00430
TCBOT	OLKE-1S	OLKE-4Y	00440
TCBRESET	OLKE-2T	OLKE-5G	00450
TCBRESET	OLKE-5G	OLKE-7R	00460
TCDNR	OLKE-0Q	OLKE-4Q	00470
TCEOT	OLKE-1W	OLKE-4L	00480
TCGAP	OLKE-0H	OLKE-5Q	00490
TCLDBUF	OLKE-3G	OLKE-4G	00500
TCLDBUF	OLKE-4G	OLKE-7L	00510
TCPE	OLKE-3W	OLKE-4T	00520
TCPE	OLKE-4T	OLKE-7W	00530
TCRDSTRB	OLKE-2F	OLKE-7H	00540

SIGNAL- MNEMONIC	--PIN LOCATION-- -FROM- -TO--	LEVEL -Z-Z-	CARD --NO--	GLOSSARY NAME	SCHE PG
TCREAD	OLKE-3R	OLKE-6N	00550		
TCRWND/	OLKE-0I	OLKE-5B	00560		
TCSTL	OLKE-1N	OLKE-4H	00570		
TCWSTR	OLKE-3B	OLKE-7B	00580		
TC3STPE/	OLKE-3S	OLKE-7S	00590		
TC5MS	OLKE-1H	OLKE-5N	00600		
TPRL/	OLBE-4C	OLKE-3T	00610		
TRCL/	OLBE-3D	OLKE-7V	00620		
TREL/	OLBE-4E	OLKE-3Y	00630		
TRIP/	OLBE-4B	OLKE-6S	00640		
TRWP/	OLBE-5A	OLKE-3J	00650		
TWCP/	OLBE-4F	OLKE-6P	00660		
TWIL/	OLBE-4H	OLKE-6L	00670		
THL/	OLBE-5I	OLKE-2U	00680		
THRL/	OLBE-3G	OLKE-5R	00690		
WOP	OLBE-2G	OLKE-1F	00700		
WOP	OLKE-1F	OLKE-6C	00710		

Burroughs Corporation
SMALL SYSTEMS PLANT
DOWNTON, PENNSYLVANIA 19338



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CONSENT.

NUMBER

1449 7804

PREPARED BY	APPROVED BY
A. Harvey 3-30-73	R. D. Linnemann 4-8-73

TITLE

FIELD INSTALLATION INSTRUCTIONS
FOR PERIPHERAL CONTROL (B 392)
USED IN B711 OR B705 PROCESSOR

ORIGINAL RELEASE DATE

4-13-73

PAGE 1 OF

A | RELEASED
PER ER#

1. Insert circuit card assemblies into open DDP location in the logic backplane as described below:

CARD TYPE	DDP number and card location						
	1	2	3	4	5	6	7
TC1	FW6	DW6	FV4	DV4	FU2	DU2	DTO
TC2	FW3	DW3	FV1	DV1	FT9	DT9	DS7
TC3	FW0	DW0	FU8	DU8	FT6	DT6	DS4
TC4	FV7	DV7	FU5	DU5	FT3	DT3	DS1

2. Assemble the jumper connectors (Part No. 1534 3940) to the front plane connector end of the card pairs indicated below:

TC1 and TC2

TC3 and TC4

3. On the wiring side of the backplane, slide the LARGE template (TC) over the backplane pins for the DDP location which was used for this control. This will re-identify those pins to conform to the overlay circuit list contained in the Documentation Package.
4. On the wiring side of the backplane, slide the SMALL template (TC) over the backplane pins for the I/O connector location corresponding to the selected DDP, as follows:

DDP	1	2	3	4	5	6	7
I/O Connector	J97	J96	J95	J94	J93	J92	J91

5. Attach the 50-pin connector of the adapter cable (Part No. 1449 0288) which has the strain relief bracket, to the appropriate I/O connector on the insertion side of the backplane.
6. Attach the individual Brown wires labelled "TB8B2", "TB8B6" and "TB8A4" to the appropriate terminals on TB8, which is located on the top of the Capacitor-Rectifier assembly. These connections will supply power to the Tape Cassette Drive (+5VDC, +12VDC and -12VDC). (Ref: Wiring, B700 AC Control and Power Supply - Domestic: Part No. 1449 1674, International: Part No. 1449 1682, contained in Vol. I of the Field Test and Reference Document, Part No. 1448.7185, Pages 132 and 133 (Domestic), Pages 136 and 137 (International))
7. Attach the feed which identifies the control and its serial number to the 50-pin connector on the other end of the adapter cable to the adapter panel which is part of the power control unit, using the #4-40X1/2" long pan head screws and #4 split lockwashers which are provided.
8. Mark, on the connector location decal of the power control, which of the slots in the adapter panel was used for this control cable.

1449 7804

PAGE	2
REV.	A

9. Affix the decal, which identifies the control and its serial number, to the configurator plate (which is on the horizontal rail of the processor) in the space which indicates the DDP location which was used for this control.

10. Control is now ready for use.

Burroughs Corporation

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NUMBER

2601 7392

REV A

PREPARED BY

A. Harvey

12-18-73

APPROVED BY

R. Johnson

1/3/74

TITLE

FIELD INSTALLATION INSTRUCTIONS
FOR PERIPHERAL CONTROL (B 392)
USED IN B771 PROCESSOR

ORIGINAL RELEASE DATE

PAGE 1 OF 2

A RELEASED
PER ER # 94

1. Insert circuit card assemblies into open DDP location in the logic backplane as described below:

CARD TYPE	DDP number and card location					
	2	3	4	5	6	
TC1	DW6	FV4	DV4	FU2	DU2	
TC2	DW3	FV1	DV1	FT9	DT9	
TC3	DW0	FU8	DU8	FT6	DT6	
TC4	DV7	FU5	DU5	FT3	DT3	

2. Assemble the jumper connectors (Part No. 1534 3940) to the front plane connector end of the card pairs indicated below:

TC1 and TC2

TC3 and TC4

3. On the wiring side of the backplane, slide the LARGE template (TC) over the backplane pins for the DDP location which was used for this control. This will re-identify those pins to conform to the overlay circuit list contained in the Documentation Package for the control.
4. On the wiring side of the backplane, slide the SMALL template (TC) over the backplane pins for the I/O connector location corresponding to the selected DDP, as follows:

DDP	2	3	4	5	6	
I/O Connector	J96	J95	J94	J93	J92	

5. Attach the 50-pin connector of the adapter cable (Part No. 1449 0288) which has the strain relief bracket, to the appropriate I/O connector on the insertion side of the backplane.
6. Attach the individual Brown wires labelled "TB8B2", "TB8B6" and "TB8A4" to the appropriate terminals on TB8, which is located on the top of the Capacitor-Rectifier assembly. These connections will supply power to the Tape Cassette Drive (+5VDC, +12VDC and -12VDC). (Ref: Wiring, B771 AC Control and Power Supply - Domestic: Part No. 1449 6756, International: Part No. 1449 6764, contained in Vol. I of the Field Test and Reference Document, Part No. 1449 4819).
7. Secure the 50-pin connector on the other end of the adapter cable to the adapter panel which is part of the power control unit, using the #4-40X3/4" long pan head screws and #4 split lockwashers which are provided.
8. Mark, on the connector location decal of the power control, which of the slots in the adapter panel was used for this control cable.

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9. Affix the decal, which identifies the control and its serial number, to the configurator plate (which is on the horizontal rail of the processor) in the space which indicates the DDP location which was used for this control.

10. Control is now ready for use.