

**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>TWI</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>TKCL</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 emps) 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.

TCPL (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.

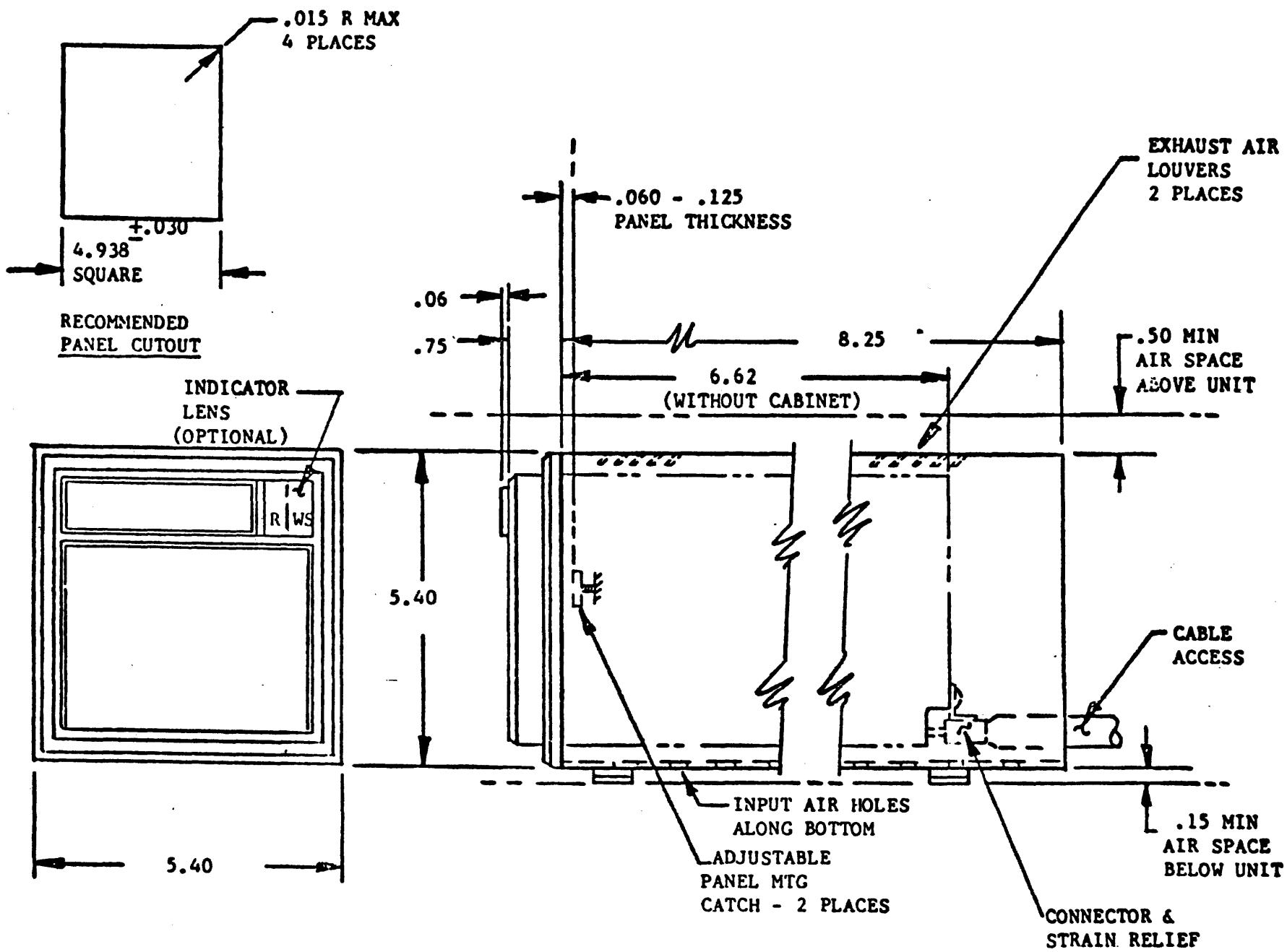
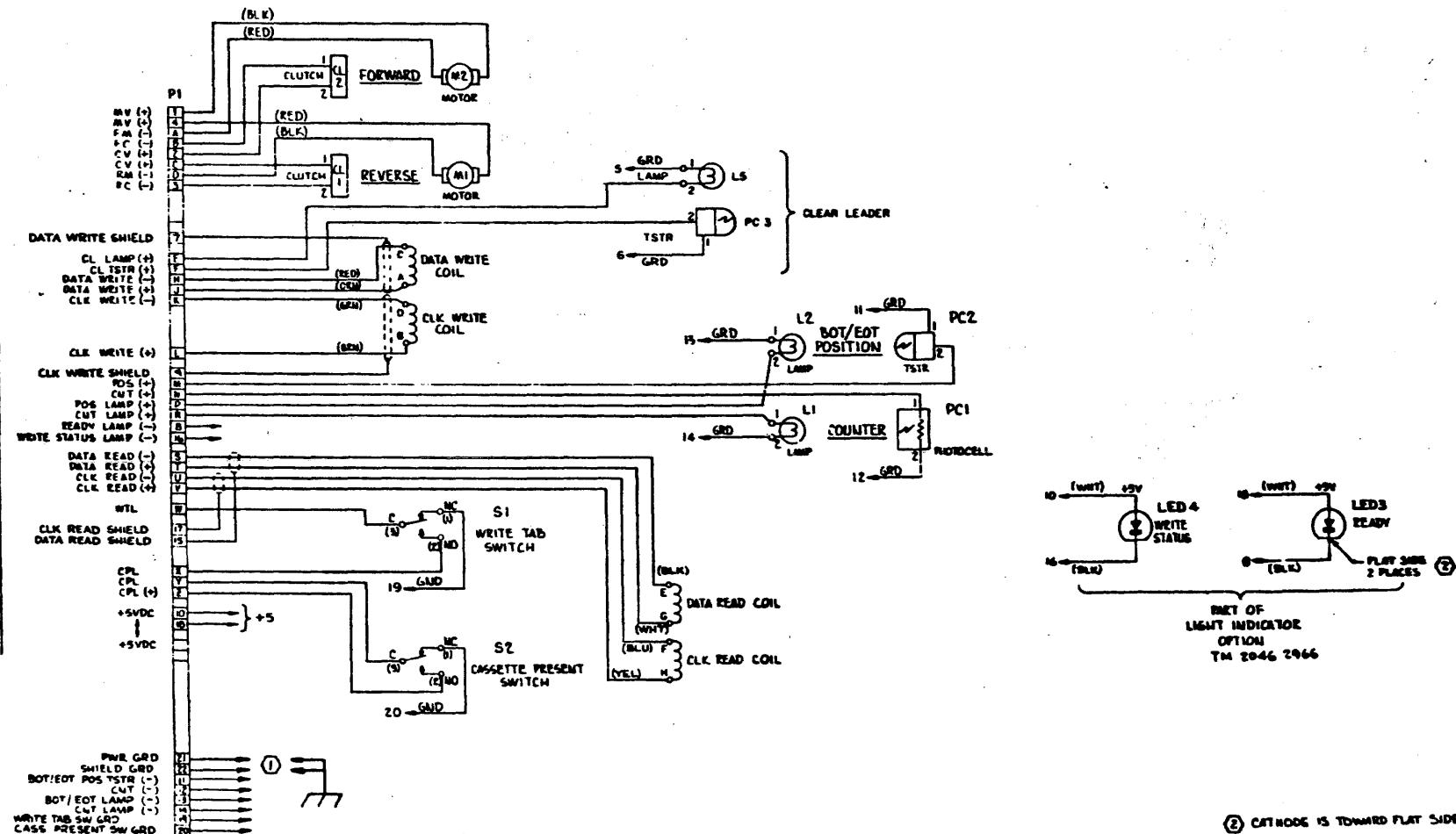


FIGURE 1



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

NOTE

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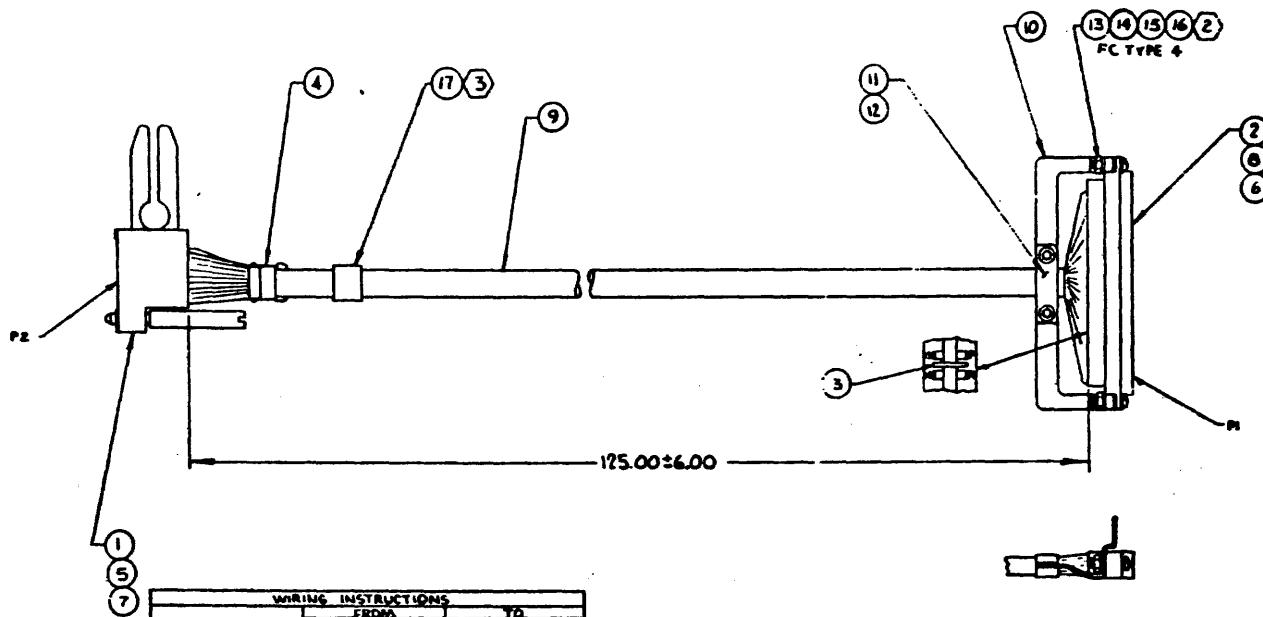
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| REVISIONS | | | | | |
|-----------|------|---------|---------|---------|------|
| | REV. | DATE | CHG. | TYPE | NOTE |
| A | 1 | 1-10-64 | Initial | Printed | |
| | 2 | 1-10-64 | Spec | Change | |

| RELEASED | | | | | |
|----------|--------|-------|------------------|---|---|
| | B | C | D | E | F |
| D | 1 | 2 | 3 | 4 | 5 |
| | 126.00 | 26.00 | MHS | | |
| | 10.00 | 1.00 | EST | | |
| | 3) | 3) | TITLE MHS CABLE | | |
| | | | ASSY, EST PROVN! | | |

SEND CHANGES TO
"SIR PLANTS"
P-1270-9



| COLOR | WIRING INSTRUCTIONS | | | | TO | |
|--------------------|---------------------|------|------------|------------------|------|------------|
| | TERMINAL ITEM | CONN | PIN NO. | TERMINAL ITEM | CONN | 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 |
| WHITE/BLACK/BROWN | 6 | P1 | X | 5 | P2 | 10 |
| YELLOW | 8 | P1 | E | 6 | P2 | 15 |
| 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 | T | 5 | P2 | 12 |
| 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 | K | 5 | P2 | 7 |
| WHITE/BLACK/ORANGE | 8 | P1 | S | 5 | P2 | 11 |
| WHITE/BLACK/YELLOW | 8 | P1 | IS | 5 | P2 | 6 |
| WHITE/RED | 8 | P1 | T | 5 | P2 | 22 |
| WHITE/ORANGE | 8 | P1 | U | 5 | P2 | 23 |
| WHITE/BLACK/DW | 8 | P1 | V | 5 | P2 | 24 |
| WHITE/GREEN | 8 | P1 | W | 6 | P2 | 25 |

- ③ MARK ASSY NO. ON STRAP WITH "BOND-O-TOOL" STAMPS.
 - ④ FC "TYPE" PER SPEC 1199 2096.
 - ⑤ INDICATED WIRES ARE TWISTED PAIR.

NOTES: UNLESS OTHERWISE SPECIFIED

| | | | |
|--|--------------------|----------------------|--------------------------|
| GER. MNL. SPEC. 1105-9643 AND TITLE BLOCK LINES APPLY UNLESS OTHERWISE SPECIFIED SCALE | | | |
| HOLE DIAMETER INCHES | NUMBER OF HOLES | LOCATION | REMARKS |
| .050 - .055 | 2 | Q.A. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.B. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.C. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.D. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.E. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.F. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.G. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.H. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.I. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.J. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.K. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.L. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.M. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.N. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.O. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.P. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.Q. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.R. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.S. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.T. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.U. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.V. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.W. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.X. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.Y. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| .050 - .055 | 2 | Q.Z. 11/16" from top | WIRE C. 20 gauge 12-6-72 |
| CABLE ASSY, EXTERNAL D-2046 1992 P SHEET OF 1 | | | |

LABLE ASSY, FATHERAL

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D-2046 2008 C

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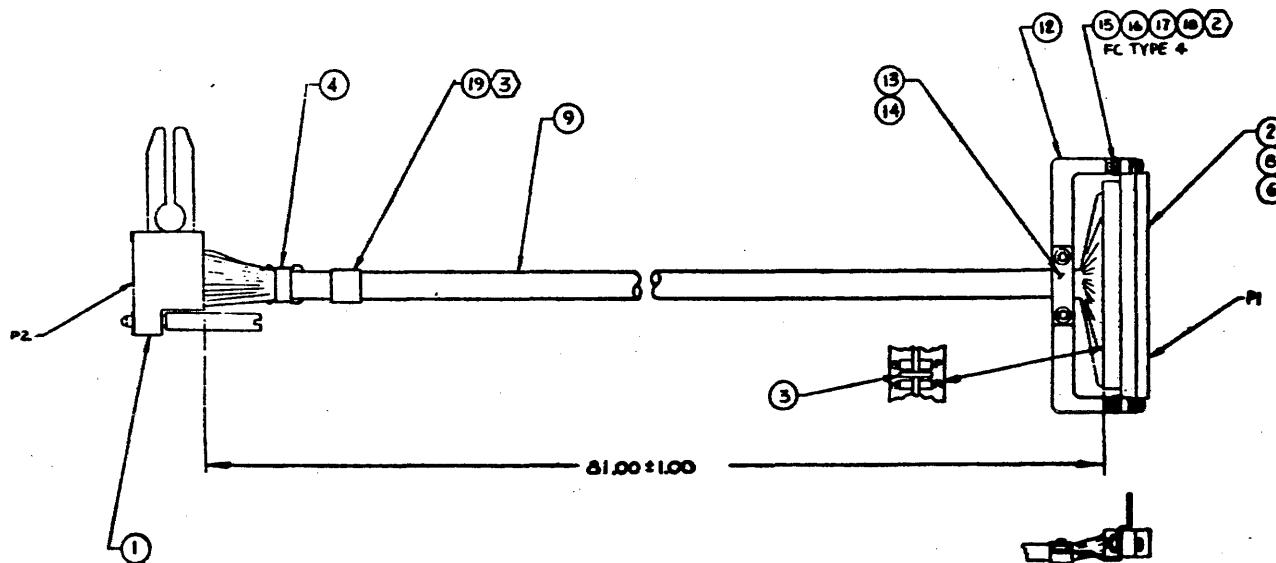
C

B

6

A

REVISIONS
A REVISION C4 AND DATE 10-11-81
RELEASED
1) ITEM #15 WAS 30 PLACES
WAS 9 PLACES (C5)
2) 81.00±1.00 WAS
38.00±.50 (B4)
3) TITLE HAS "CABLE
ASSY, INT 38AWG"
C 10-11-81 DAY 100 9
4) ITEM #15 WAS 30 PLACES
(C5)
5) DELETED ITEMS ④ & ⑤
(C4,5)
6) ADDED COLOR CODE TO
WIRING INSTRUMENT TABLE.



| WIRING INSTRUCTIONS | | | | | |
|---------------------|---------------|----------|---------|---------------|----------|
| COLOR | TERMINAL ITEM | COMM NO. | PIM NO. | FROM TO | |
| | | | | TERMINAL ITEM | COMM NO. |
| RED | 6 | P1 | 4 | 7 | P2 |
| WHITE/BLACK | 6 | P1 | 1 | 7 | P2 |
| ORANGE | 6 | P1 | 8 | 7 | P2 |
| WHITE/BLACK/BLACK | 6 | P1 | 2 | 7 | P2 |
| BROWN | 6 | P1 | C | 7 | P2 |
| WHITE/BLACK/BROWN | 6 | P1 | X | 5 | P2 |
| YELLOW | 6 | P1 | E | 5 | P2 |
| WHITE/BLUE | 6 | P1 | F | 5 | P2 |
| WHITE/VIOLET | 6 | P1 | G | 5 | P2 |
| WHITE/GREY | 6 | P1 | H | 5 | P2 |
| WHITE/BLACK/VIOLET | 6 | P1 | I | 5 | P2 |
| BLUE | 6 | P1 | J | 5 | P2 |
| VIOLET | 6 | P1 | K | 5 | P2 |
| GREY | 6 | P1 | L | 5 | P2 |
| WHITE | 6 | P1 | M | 5 | P2 |
| WHITE/BLACK/BLUE | 6 | P1 | N | 5 | P2 |
| WHITE/BROWN | 6 | P1 | F | 5 | P2 |
| WHITE/BLACK/GREEN | 6 | P1 | R | 5 | P2 |
| WHITE/BLACK/RED | 6 | P1 | I | 5 | P2 |
| WHITE/BLACK/ORANGE | 6 | P1 | S | 5 | P2 |
| WHITE/BLACK/YELLOW | 6 | P1 | T | 5 | P2 |
| WHITE/RED | 6 | P1 | U | 5 | P2 |
| WHITE/ORANGE | 6 | P1 | V | 5 | P2 |
| WHITE/YELLOW | 6 | P1 | W | 5 | P2 |
| WHITE/GREEN | 6 | P1 | Z | 5 | P2 |

CHANGES TO
USER PLANTS:
Approved Power

- ③ MARK ASSY NO. ON STRAP WITH "BOND-O-TOOL" STAMP.
- ② FC TYPE PER SPEC 1199 8036.
- ① INDICATED WIRES ARE TWISTED PAIR.

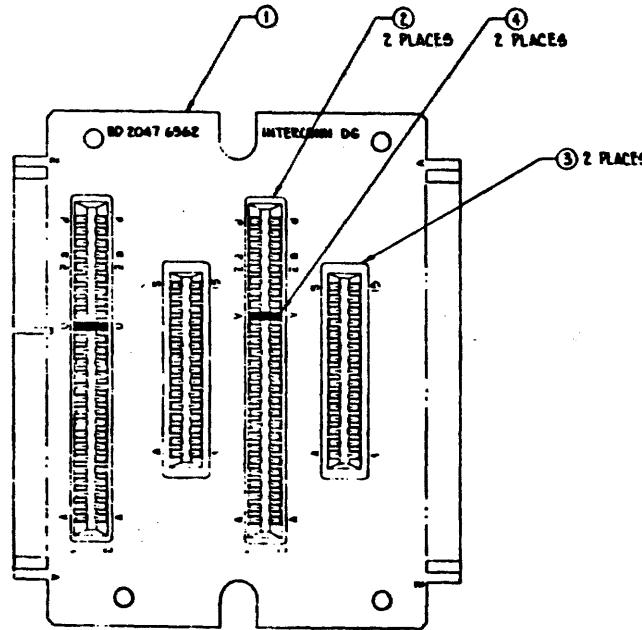
NOTES: UNLESS OTHERWISE SPECIFIED

SITE P/L

| | | |
|---|--|-------------|
| Drawing No. D-2046 2008 C | | Sheet No. 1 |
| Title: CABLE ASSY, INTERNAL | | |
| Description: Internal cable assembly for Site P/L | | |
| Date: 10-11-81 | | |
| Prepared by: [Signature] | | |
| Checked by: [Signature] | | |
| Approved by: [Signature] | | |
| Revised by: [Signature] | | |
| Reviewed by: [Signature] | | |
| Supervised by: [Signature] | | |
| Issued by: [Signature] | | |
| Accepted by: [Signature] | | |
| Comments: None | | |

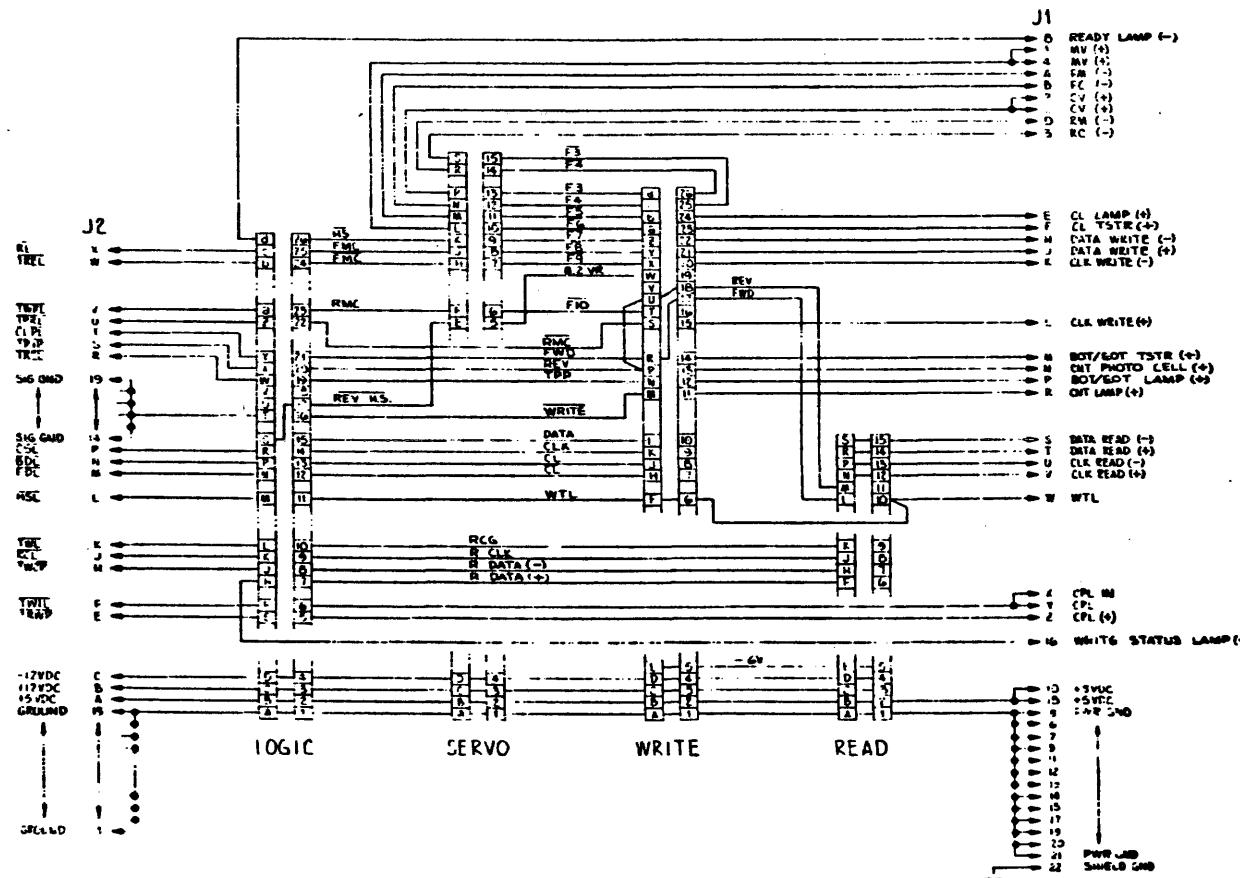
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SEE P/L

D-2046 3527 C



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REVISIONS

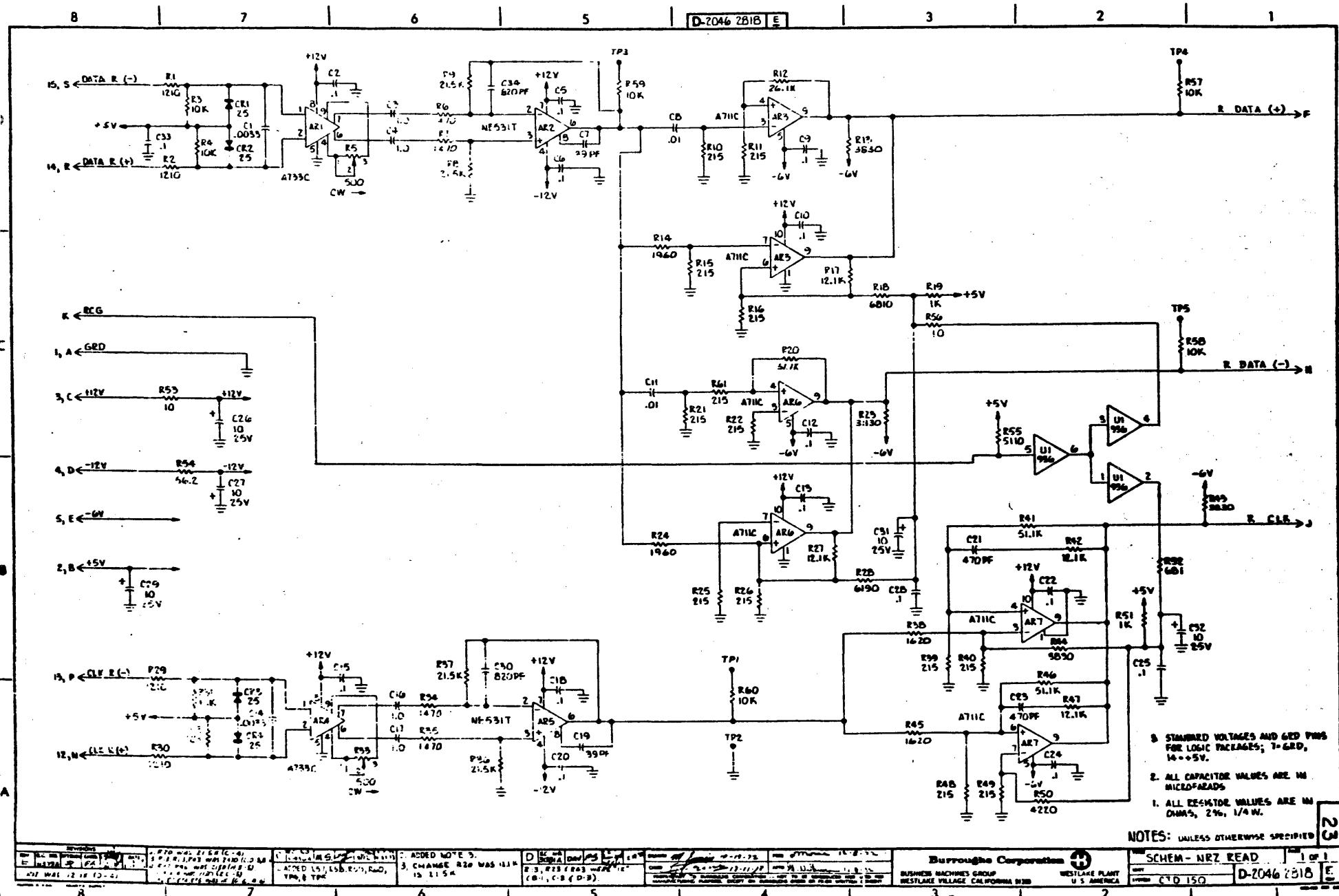
RELEASED

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1

Detailed description: This is a schematic diagram of a circuit board. It features several integrated circuit packages, resistors, capacitors, and other discrete components. Key labels include 'AR1' through 'AR7' (likely operational amplifiers), 'U1' (a large IC package), 'U2' (another large IC package), and various component designators like C1-C10, R1-R10, and T1-T5. The board is densely packed with components arranged in a grid-like pattern.

Burroughs Corporation 
 3601 N.W. 21ST PLANT
 LAKE VILLAGE, CALIFORNIA 91340
 U.S.A.
 ACSY, NRZ READ! D-2048 2253 A



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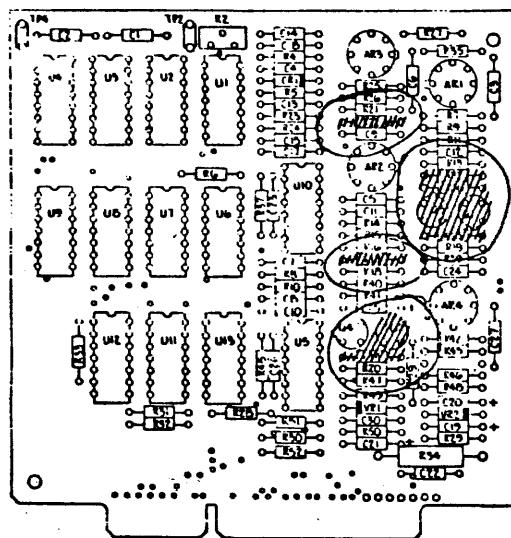
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D-1047 6271 1 A

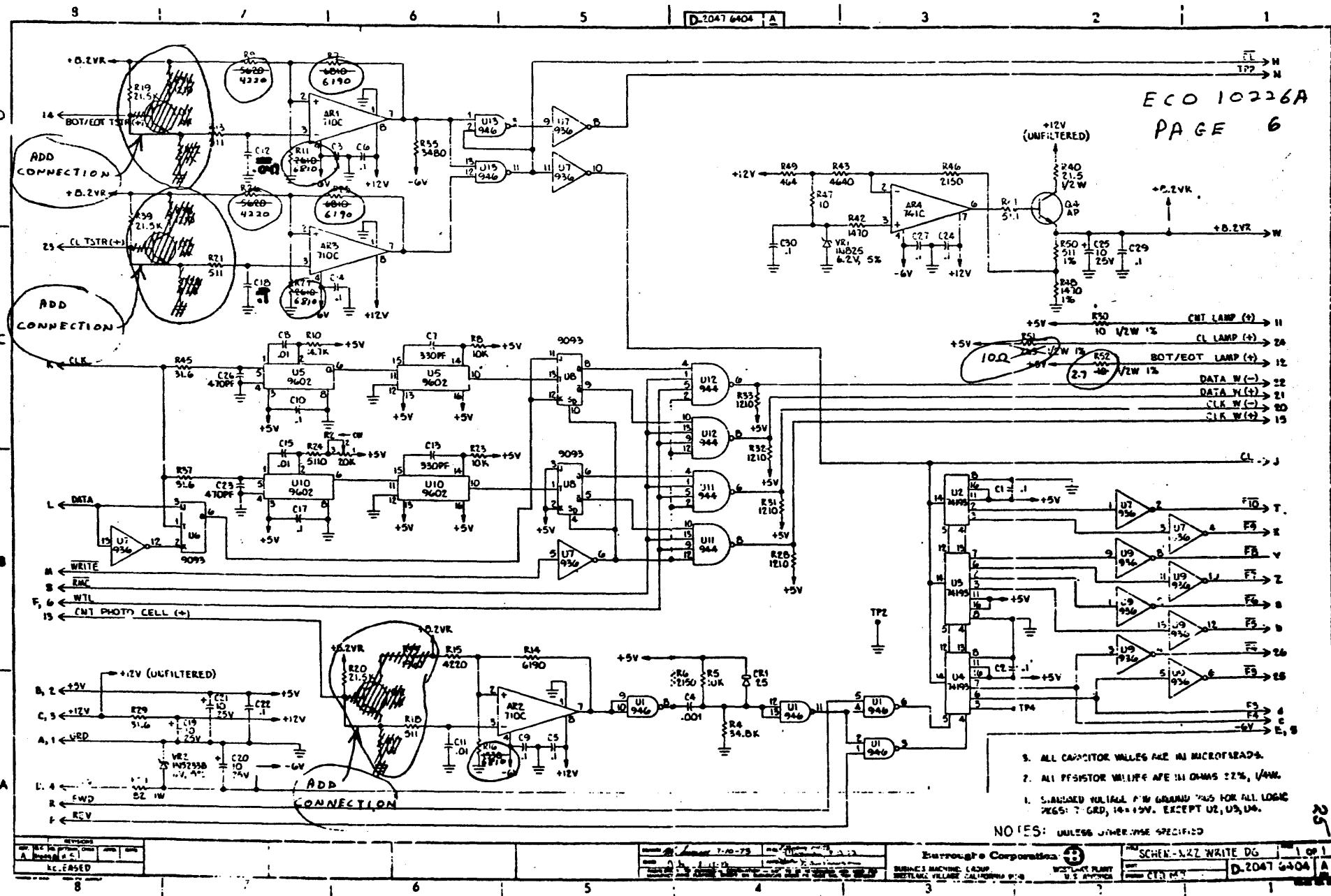
REVISIONS

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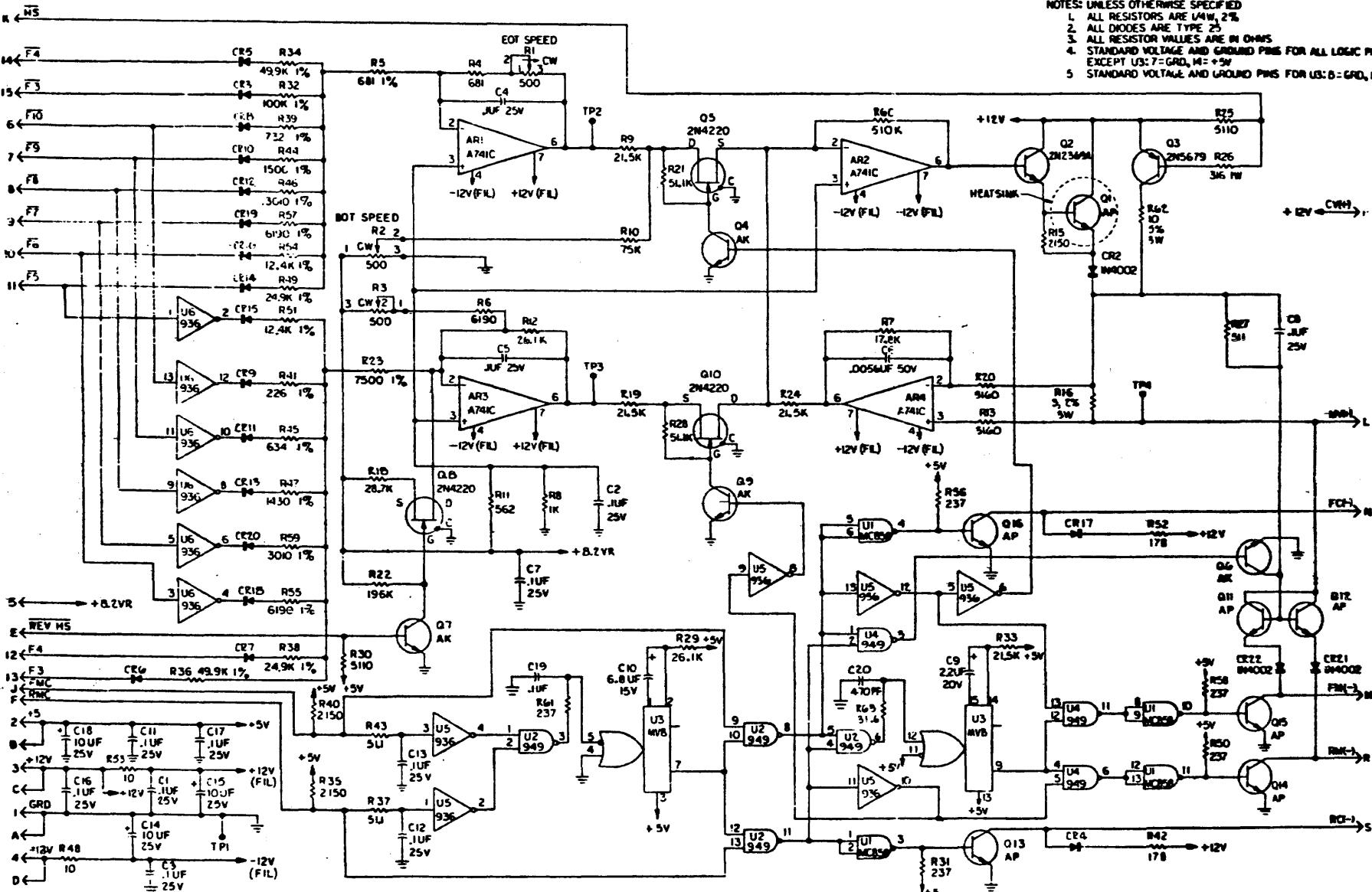


ECO 10226 A
Pg. - 4

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NOTES UNLESS OTHERWISE SPECIFIED
 1. ALL RESISTORS ARE 1/4W, 2%
 2. ALL DIODES ARE TYPE Z5
 3. ALL RESISTOR VALUES ARE IN OHMS.
 4. STANDARD VOLTAGE AND GROUND PINS FOR ALL LOGIC PACKAGES
 EXCEPT U3: 7=GRD, 16=+5V
 5. STANDARD VOLTAGE AND GROUND PINS FOR U3: 5=GRD, 16=+5V



| | | |
|--------------------------|--------------------------|--|
| 2. U1-A 949 4.75W 3% (Q) | 3. U1-B 949 4.75W 3% (Q) | 4. U1-C 949 4.75W 3% (Q) |
| 5. FURNISHED U1-A (D-3) | 6. FURNISHED U1-B (D-3) | 7. U1-C WAS TYPE AK (D-3) |
| 8. ADDED U2-A (E-2) | 9. ADDED U2-B (E-2) | 10. U1-C WAS GROUNDED, 14 CONNECTED TO C22 ANODE (E-2) |
| 11. ADDED U3, C20 (E-4) | 12. ADDED U3, C20 (E-4) | 13. U1-C WAS 10K (E-2) |

| | | |
|------------------------------|------------------------------|------------------------------|
| 6. U3-M15 WAS U3-9492 (A-5) | 7. U3-M15 WAS U3-9492 (A-5) | 8. U3-M15 WAS U3-9492 (A-5) |
| 9. ADDED +12V (A-2) | 10. U3-M15 WAS U3-9492 (A-5) | 11. U3-M15 WAS U3-9492 (A-5) |
| 12. ADDED U4, R43 (E-2) | 13. ADDED U4, R43 (E-2) | 14. U3-M15 WAS U3-9492 (A-5) |
| 15. U3-M15 WAS U3-9492 (E-2) | 16. U3-M15 WAS U3-9492 (E-2) | 17. U3-M15 WAS U3-9492 (E-2) |

Burroughs Corporation

BUSINESS MACHINES GROUP
WESTLAKE VILLAGE CALIFORNIA 91360

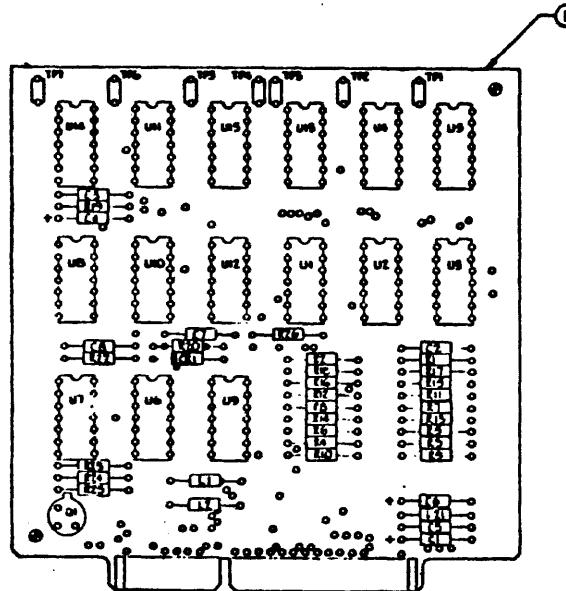
SCHEM - SERVO 10/30 IPS TOP

WESTLAKE PLANT U.S.A.
PHONE CTD-150 D-2046 4871 E

D.2067 1934 A

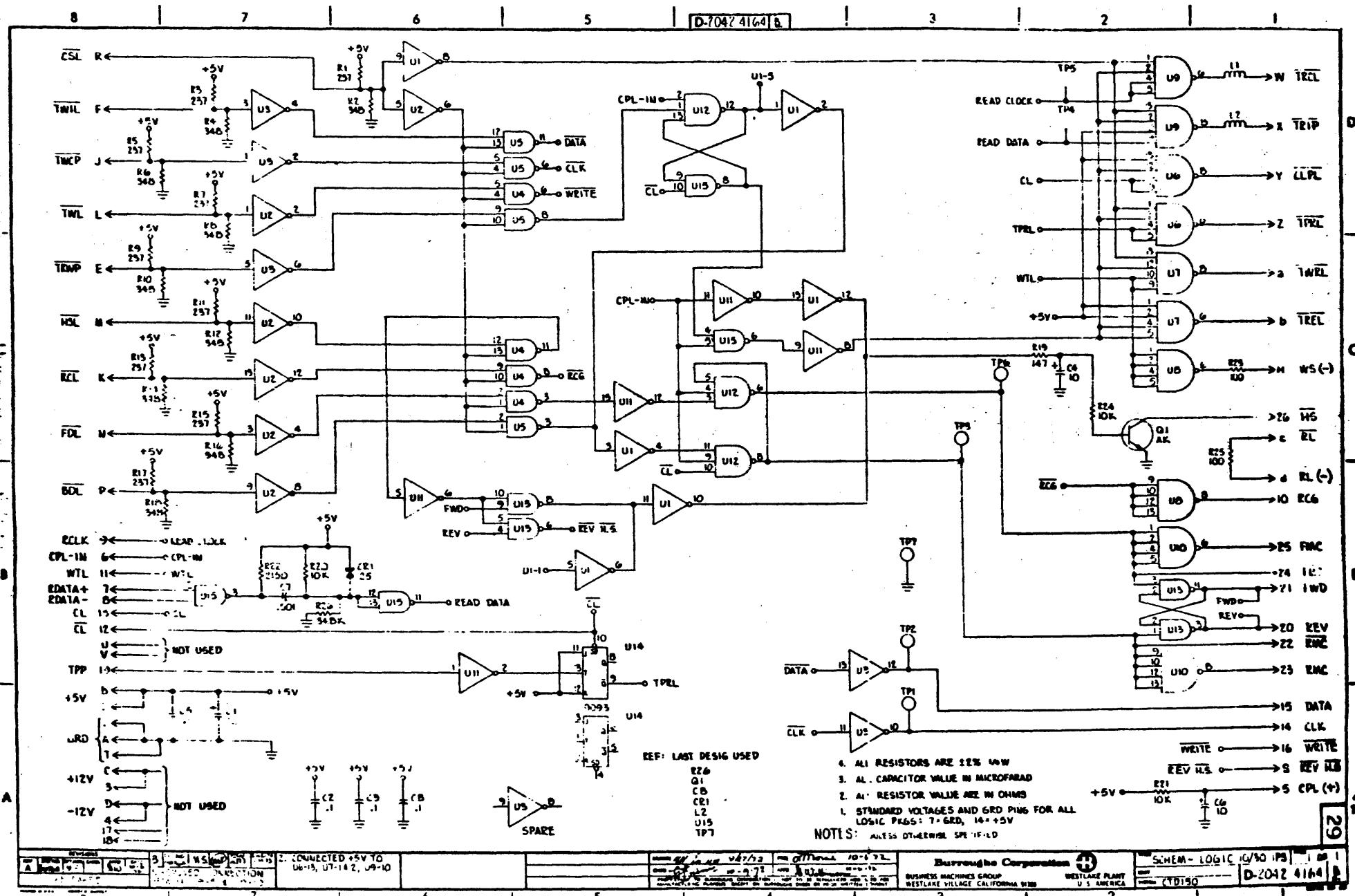
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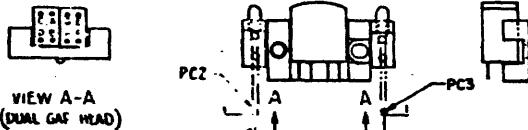
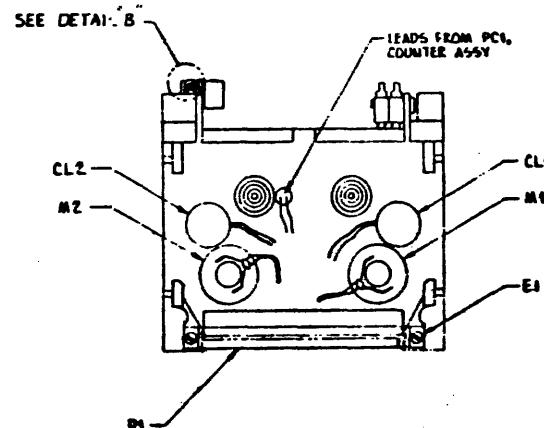
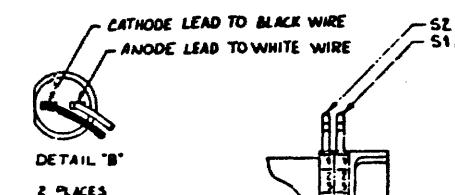
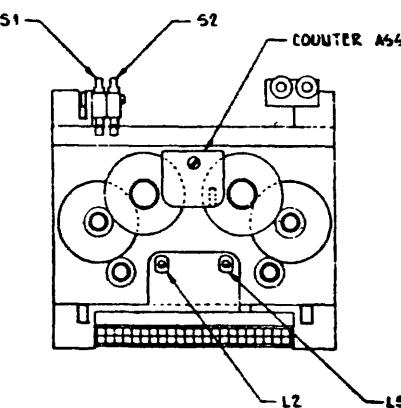
| REF NO | REFERENCE | DESIGNATION |
|-----------|---|-------------|
| 3 | U1, U2, U3, U11 | |
| 4 | U6, U7, U8, U9, U10 | |
| 5 | U4, U5, U13, U15 | |
| 6 | U12 | |
| 7 | U14 | |
| 8 | C1, C4, C6 | |
| 9 | C1, C9, C2, C8 | |
| 10 | C7 | |
| 11 | CRI | |
| 12 | L1, L2 | |
| 13 | E1, E2, E3, E4, E5, E11, E12, E13, E17 | |
| 14 | E2, E4, E6, E8, E10, E12, E14, E16, E18 | |
| 15 | E20, E21, E26 | |
| 16 | E19 | |
| 17 | E22 | |
| 18 | E23, E25 | |
| 19 | TPI, TPEW, TPT | |
| 20 | G1 | |
| 21 | TSPR, PMS, G1 | |
| 22 | E26 | |

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D-2042 5893 E

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HEAD ASSY & POSITION
PHOTOCELL
SCALE: 2/1

① EACH WIRE TO BE LUGGED SEPARATELY

?

| WIRE LIST | |
|--------------|-------|
| FROM | TO |
| S1-1 | PI-19 |
| S1-2 | PI-X |
| S1-3 | PI-W |
| S2-1 | PI-ZD |
| S2-2 | PI-E |
| S2-3 | PI-Y |
| L1-1 | PI-R |
| L1-2 | PI-14 |
| L2-1 | PI-15 |
| L2-2 | PI-D |
| PC1-1 | PI-N |
| PC1-2 | PI-12 |
| PC2-1 | PI-11 |
| PC2-2 | PI-M |
| CL1-1 | PI-C |
| CL1-2 | PI-S |
| CL2-1 | PI-B |
| CL2-2 | PI-Z |
| M1-RED | PI-6 |
| M1-BLK | PI-D |
| M2-RED | PI-A |
| M2-BLK | PI-1 |
| E1 | PI-21 |
| E1 | PI-22 |
| CAT LED3-BLK | PI-B |
| AN LED3-WHT | PI-15 |
| CAT LED4-BLK | PI-16 |
| AN LED4-WHT | PI-10 |

| 2 CH DUAL GAP HEAD | | PART NO. |
|--------------------|-------|-----------|
| FROM | TO | |
| E-PLK | P1-5 | |
| G-WHT | P1-7 | B-2046 55 |
| SHIELD | P1-15 | |
| | | |
| F-R11 | P1-11 | |
| H-WT | P1-13 | B-2046 55 |
| SHIELD | P1-15 | |
| | | |
| C-RED | I-1-M | |
| A-ORN | P1-1 | B-2046 55 |
| SHIELD | P1-7 | |
| | | |
| D-ORN | P1-4 | |
| B-BPN | P1-1 | B-2046 55 |
| SHIELD | P1-9 | |
| | | |

(?) ITEMS INDICATED ARE OPTIONAL
WITH THE BAG 1966.

① IN PANEL MOUNTING APPLICATIONS, IT IS UP TO THE CONNECTION FROM PH. 1 TO CHA +B... +B+ B. A SEPARATE GROUNDING RAMP IS REQUIRED. CONNECTION E1 TO A SEPARATE GND1 TERMINAL MUST BE ADDED BY USER.

NOTES:

FOR USE WITH DUAL CAP 111...

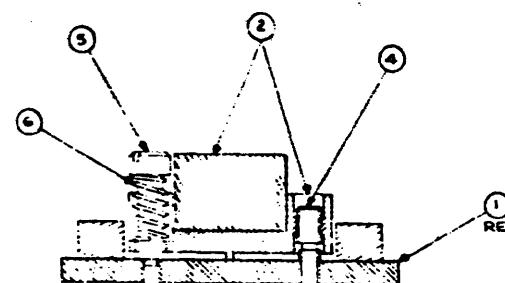
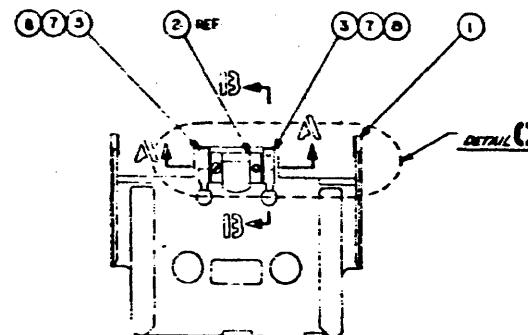
BURROUGHS CORPORATION
ADDRESS MACHINES GROUP
WESTLAKE VILLAGE, CALIFORNIA 91360
TELEGRAMS TO: BURMACH
TELEPHONE: 800-555-1234
TELETYPE: 800-555-1234
TELEX: 800-555-1234
PRINTING DIAGRAM - CASE 10 | U-294. 3893 | E

8 | 7 | 6 | 5 | D-20269213 A | 3 | 2 |

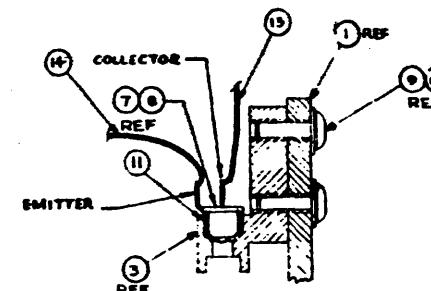
D-20269213 | A

~~DO NOT ERASE~~

11 EASIER

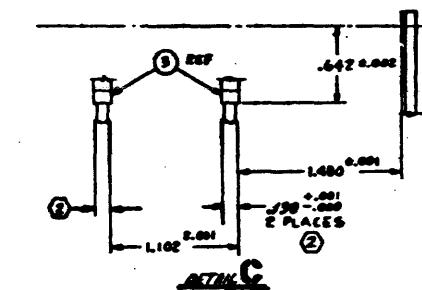
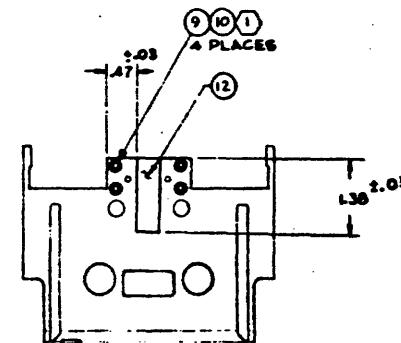


SECTION 3
SCALE: 4



SECTION 13 - 3

2 PLACES



② TAPE GUIDE FINGERS OF ITEM ③ TO BE
WITHIN INDICATED AREA.

① TORQUE TO 3 $\frac{1}{2}$ IN-LBS.

NOTES:

5 1 B 20462033 E

RELEASED

1 P-40 8 PLACES WAS
P-40 8 PLACES BD-31.

B. DELETED ITEM (3)
GALLOUT (D-5).

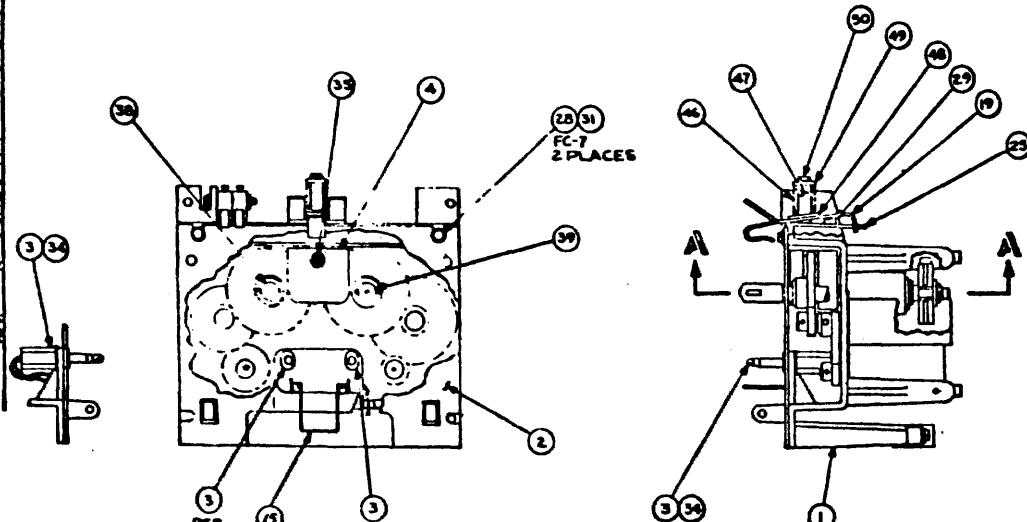
C. 165 (N. 6) (S. 1)
CHANGED VIEW C-4
AND D-4. (RECALCULATED
EXTENSIONS TO CHASSIS
SPECIFICATIONS.)

D. 166 GO (S. 1)

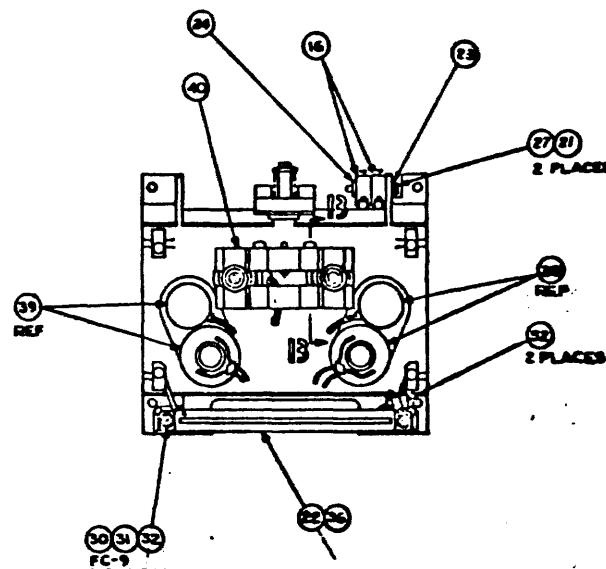
CHANGED VIEW C-4
AND D-4. (RECALCULATED
EXTENSIONS TO CHASSIS
SPECIFICATIONS.)

E. 167 GO (S. 1)

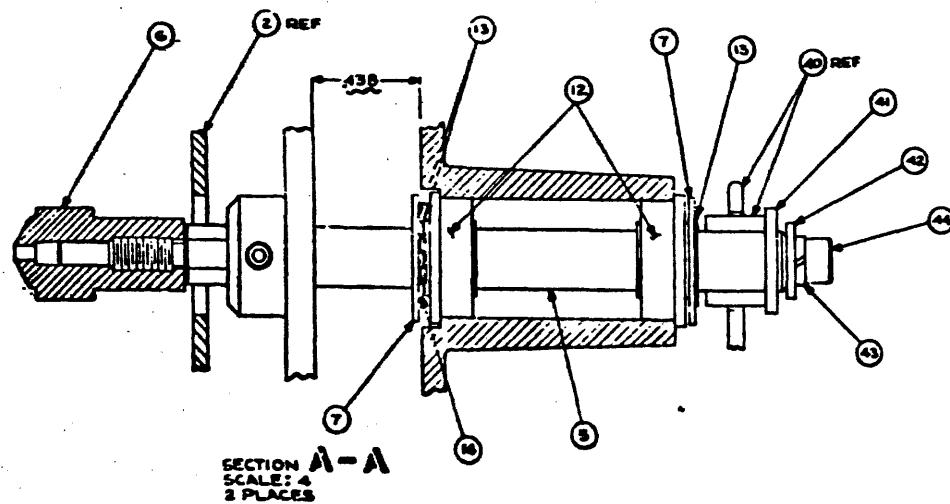
CHANGED ITEM 15C-61
DELETED ITEMS 23, 26
28 AND 29. (C-4)



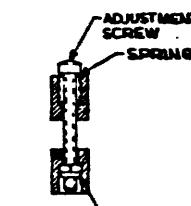
FRONT VIEW



READ VIEWS



SECTION A-A
SCALE: 4
2 PLACES



SECTION B-B
SCALE: 2

L ASSEMBLE PER BURROUGHS SPEC A-1199 2096.

NOTE:

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|--|--|---|-----------|-----|
| Burroughs Corporation COMPUTER SYSTEMS GROUP DOWNTOWN PLANT DOWNTOWN, PENNSYLVANIA 19335 | | <small>PROPRIETARY TO BURROUGHS CORP NOT TO BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT BY BURROUGHS OR OTHER BY PRIOR WRITTEN CONSENT.</small> | NUMBER | REV |
| | | | 2608 1869 | A |
| PREPARED BY | APPROVED BY | TITLE ACU/HDB WIRE STRAP MODULE MODIFICATION SPECIFICATION | | |
| J. LOVRENCEVIC <i>J. Lovrencevic</i> | L. SHAPIRO <i>ML</i> H. B. MARX <i>HM</i> | ORIGINAL RELEASE DATE | 5-25-76 | |
| PAGE 1 OF 4 | | | | |

| REVISIONS | | | | |
|-----------|----------------------------------|------|----------|--|
| LEVEL | DESCRIPTION | DATE | APPROVED | |
| A | Initial Release <i>ER91Rev54</i> | | | |
| 2608 1869 | | | | |