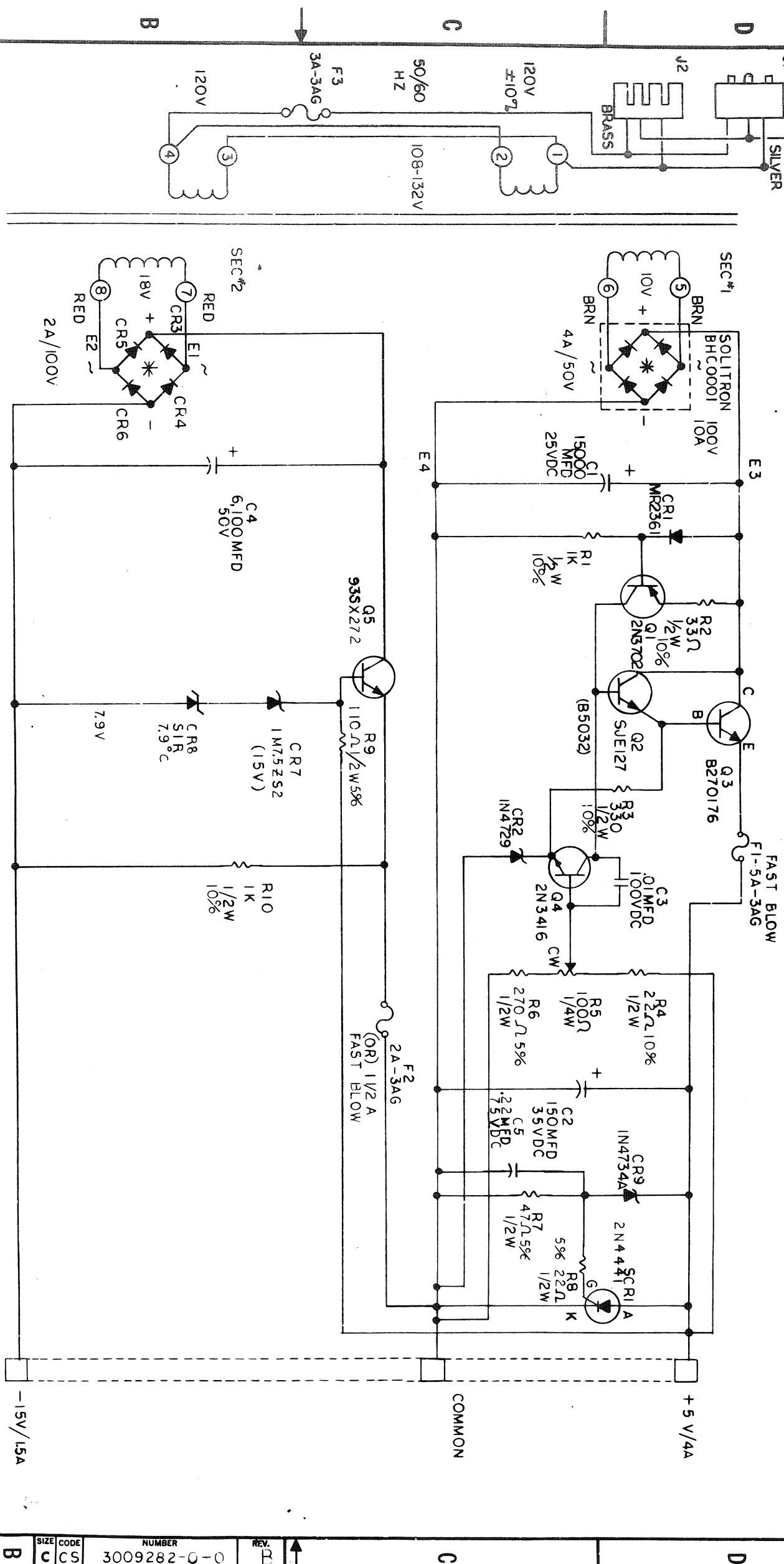




This drawing and specifications, including the parts list, are the property of the United States Government and shall not be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without permission in writing from the Department of Defense.

R5 = POT = +137014, BD91038  
CR3, CR4, CR5, CR6 = IN5392  
T1 = 101748, -9966936  
\* HEAT SINK ADDED TO BRIDGE



| REVISIONS         |            |      |
|-------------------|------------|------|
| CHK               | CHANGE NO. | REV. |
| 248               | H716-00001 | A    |
| M. ARSENAULT      |            |      |
| E. Wilson 5/24/71 |            |      |
| EV                | H716-00002 | B    |
| K. PIERCE         |            |      |
| K. Pierce 5/26/71 |            |      |

NOTE:  
THIS CIRCUIT SCHEMATIC  
HAS BEEN REDRAWN WITH  
THE PERMISSION OF  
WANLESS ELECTRIC CO.  
SEE WANLESS DRAWING  
NUMBER C-101418, MODEL  
C-148

| UNLESS OTHERWISE SPECIFIED           |           |
|--------------------------------------|-----------|
| DIMENSIONS IN INCHES                 |           |
| TOLERANCES                           | ANGLES    |
| DIMENSIONS                           | FRACTIONS |
| ± .005                               | ± 1/64    |
| ± .030                               | ± 0.30    |
| FINAL SURFACE QUALITY                |           |
| REMOVE BURRS AND BREAK SHARP CORNERS |           |
| MATERIAL                             |           |
| FINISH                               |           |

| QTY.                   | DESCRIPTION | PART NO. | ITEM NO. |
|------------------------|-------------|----------|----------|
| PARTS LIST             |             |          |          |
| TITLE                  |             |          |          |
| H-716.P.S.             |             |          |          |
| DRAWN BY: M. Arsenault |             |          |          |
| DATE: 4/11/69          |             |          |          |
| CHECKED BY: E. Wilson  |             |          |          |
| DATE: 4/23/69          |             |          |          |
| DESIGNED BY: K. Pierce |             |          |          |
| DATE: 4/24/69          |             |          |          |
| FIRST USED ON          |             |          |          |
| SIZE CODE              |             |          |          |
| NUMBER                 |             |          |          |
| 3009282-0-0            |             |          |          |
| REV.                   |             |          |          |
| B                      |             |          |          |

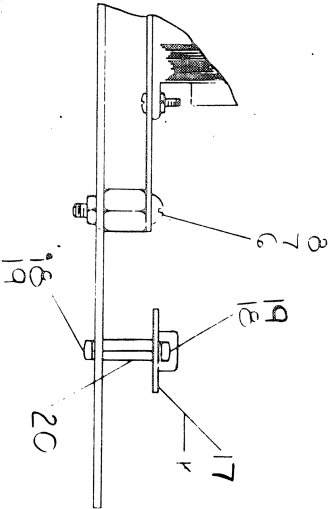
| SIZE | CODE | NUMBER      | REV. |
|------|------|-------------|------|
| C    | CS   | 3009282-0-0 | B    |



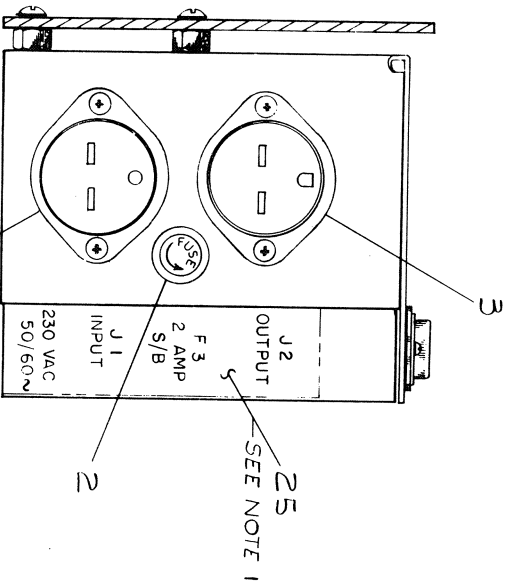
THIS DRAWING AND SPECIFICATIONS, HEREIN, ARE THE PROPERTY OF THE COMPANY AND ARE NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART AS A BASIS FOR THE MANUFACTURE OF ANY OF THE ITEMS WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.

| WIRE TABLE H716-B&D |             |                 |               |      |
|---------------------|-------------|-----------------|---------------|------|
| ITEM NO.            | DESCRIPTION | FROM CONNECTION | TO CONNECTION | WITH |
| 23                  | 18 BLK      | PS - GND        | TB - GND      | 0    |
| 21                  | 18 RED      | PS - + 5        | TB - + 5      | 0    |
| 22                  | 18 BLU      | PS - - 5        | TB - - 15     | 0    |

| WIRE TABLE H716-C |             |                 |               |        |
|-------------------|-------------|-----------------|---------------|--------|
| ITEM NO.          | DESCRIPTION | FROM CONNECTION | TO CONNECTION | WITH   |
| 23                | 18 BLK      | PS - GND        | TB - GND      | 10     |
| 23                | 1 BLK       | PS - GND        | TB - GND      | SOLDER |
| 21                | RED         | PS - + 5        | TB - + 5      | 10     |
| 21                | RED         | PS - + 5        | K - + 5       | SOLDER |
| 22                | 1 BLU       | PS - - 15       | K - - 15      | SOLDER |
| 22                | 18 BLU      | K - - 15        | TB - - 15     | 10     |



SECTION A-A  
SCALE: 1/1



| REVISIONS |           |
|-----------|-----------|
| REV       | CHANGE NO |
|           |           |
| CHK       |           |

|                                                      |  |      |             |         |         |
|------------------------------------------------------|--|------|-------------|---------|---------|
| FIRST USED ON OPTION/MODEL                           |  | QTY  | DESCRIPTION | PART NO | ITEM NO |
| UNLESS OTHERWISE SPECIFIED                           |  | DATE | DATE        | DATE    | DATE    |
| DIMENSION IN INCHES                                  |  | DATE | DATE        | DATE    | DATE    |
| TOLERANCES                                           |  | DATE | DATE        | DATE    | DATE    |
| DECIMALS                                             |  | DATE | DATE        | DATE    | DATE    |
| ANGLES                                               |  | DATE | DATE        | DATE    | DATE    |
| XXX .005                                             |  | DATE | DATE        | DATE    | DATE    |
| XX .02                                               |  | DATE | DATE        | DATE    | DATE    |
| X .1                                                 |  | DATE | DATE        | DATE    | DATE    |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY |  | DATE | DATE        | DATE    | DATE    |
| MATERIAL                                             |  | DATE | DATE        | DATE    | DATE    |
| FINISH                                               |  | DATE | DATE        | DATE    | DATE    |
| NEXT HIGHER ASSY                                     |  | DATE | DATE        | DATE    | DATE    |
| SCALE                                                |  | DATE | DATE        | DATE    | DATE    |
| SHEET 2 OF 2                                         |  | DATE | DATE        | DATE    | DATE    |
| DUAH716-0-0                                          |  | DATE | DATE        | DATE    | DATE    |
| NUMBER                                               |  | DATE | DATE        | DATE    | DATE    |
| REV                                                  |  | DATE | DATE        | DATE    | DATE    |

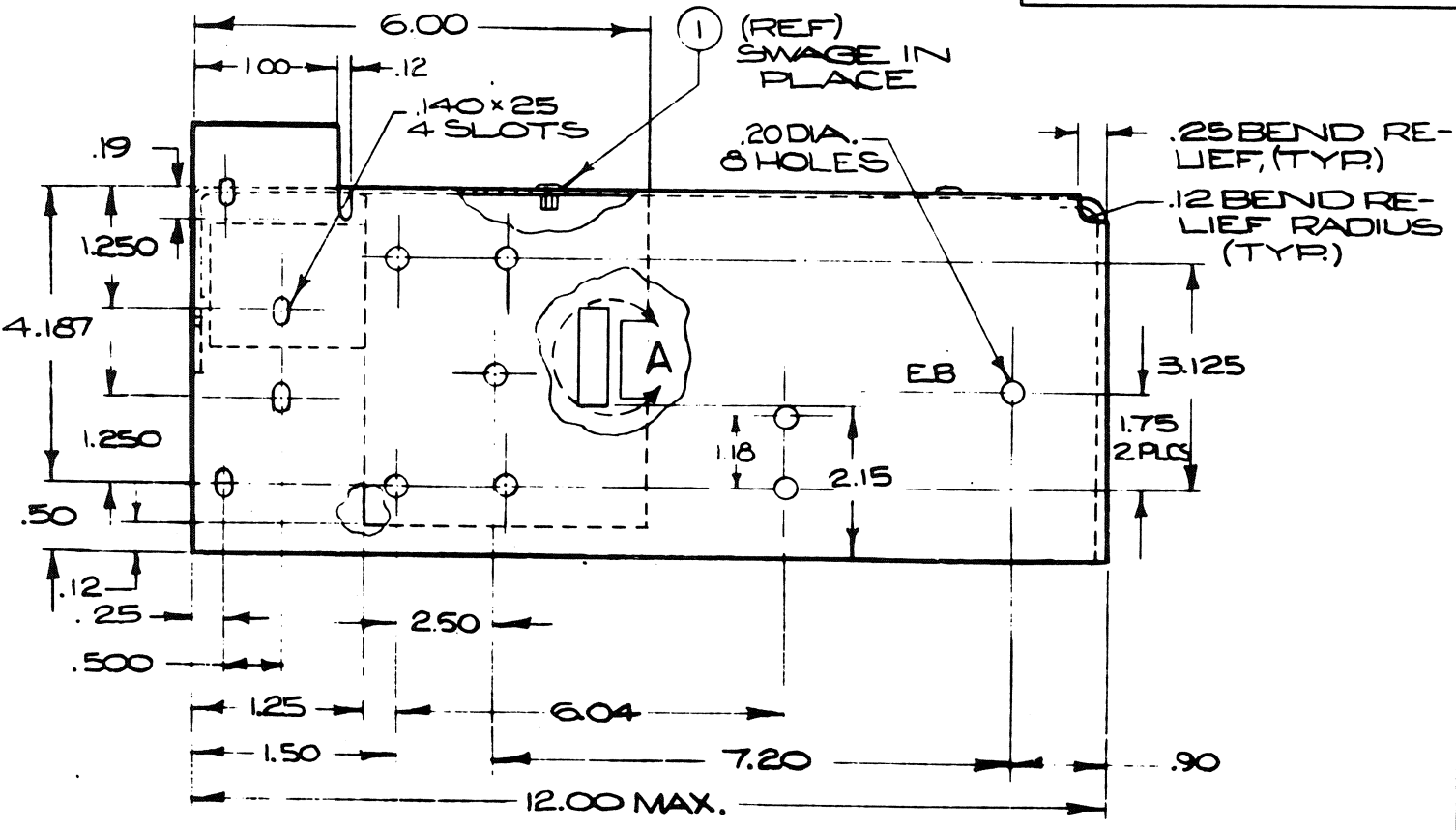
POWER SUPPLY  
H716

digital EQUIPMENT CORPORATION

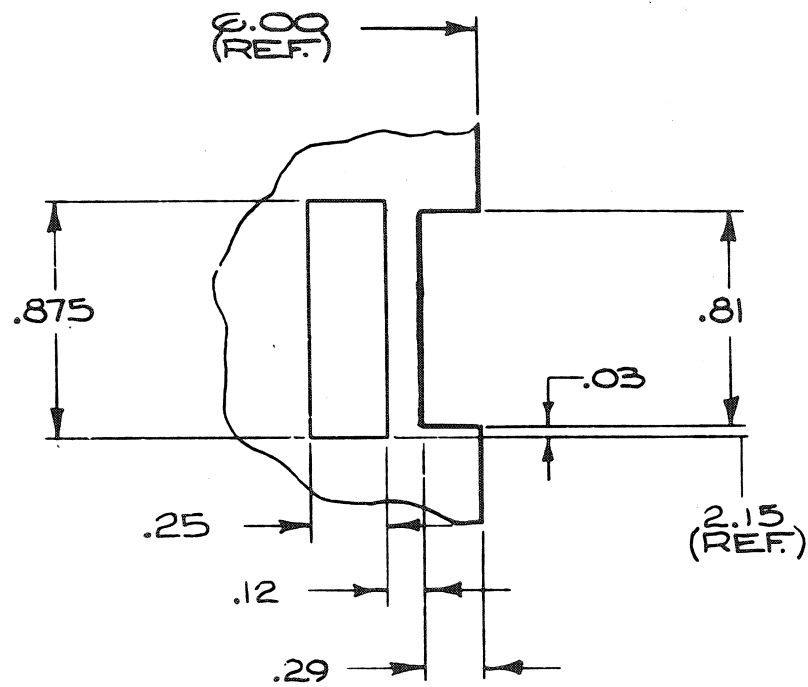
UAH716-0-0



|                                                                                                                                                                                                                                                  |                        |                                                                              |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------|---------------|
| digital EQUIPMENT CORPORATION                                                                                                                                                                                                                    | PURCHASE SPECIFICATION | Number<br>30-09282                                                           | Rev<br>c      |
|                                                                                                                                                                                                                                                  |                        | Date<br>1/6/69                                                               |               |
| H716 POWER SUPPLY                                                                                                                                                                                                                                |                        | Revisions                                                                    |               |
| MECHANICAL                                                                                                                                                                                                                                       |                        | Change No. A: SOLDER OUTPUT LUGS AND FUSE CLIPS TO RIVETS. R. NUNBY 10/23/70 |               |
| 1. Maximum Dimensions 5-1/4 H x 4-1/8 W x 12 D. Must mount on right end of DBC H911 Mounting Panel. See attached sketch.                                                                                                                         |                        | B: AMPHENOL CHANGED TO ARROW HART AND HUBBELL. DIMENSIONS CHANGED.           |               |
| 2. Power input via ARROW HART 5278 (or equivalent) connected with an HUBBELL 5256 (or equivalent) in parallel. Receptacles to be mounted in rear panel.                                                                                          |                        | C: CHANGED DIMENSIONS FOR RECEPTACLES AS SHOWN ON SHEET 6 OF 7.              |               |
| 3. Sheet metal construction to be sufficiently rigid to sustain without damage normal shipping shocks when riveted to an H911 Mounting Panel mounted in DBC standard 19" cabinet.                                                                |                        |                                                                              |               |
| 4. Electrical connections (low voltage) by Faston Amp #42117-2 terminals. SOLDER FASTONS AND FUSE CLIPS TO RIVETS ON BOTH SIDES OF P/C BOARD.                                                                                                    |                        |                                                                              |               |
| ELECTRICAL                                                                                                                                                                                                                                       |                        |                                                                              |               |
| 1. Input: 47-63 HZ. (Normally supplied wired for 117 V, may be changed by transformer tap connections.) 105-130 V, 117 V nominal, 210-260 V, 234 V. Nominal.                                                                                     |                        |                                                                              |               |
| 2. Output 1: +5 volts (adjustable over range of 4.5 to 5.5) 0 - 4 AMPS MAXIMUM. Line-Load-Ripple total regulation + 3%. Overvoltage protection threshold at 6-6.5 with a response time of 10-50 microseconds. Maximum voltage not to exceed 7 V. |                        |                                                                              |               |
| 3. Output 2: -15 volts ± 5% at 0 - 1.5 AMP MAXIMUM. Line-Load Ripple total regulation ± 5%.                                                                                                                                                      |                        |                                                                              |               |
| 4. Above specifications over temperature 0-55°C ambient.                                                                                                                                                                                         |                        |                                                                              |               |
| 5. Sheet #7 is AC Protection Bracket.                                                                                                                                                                                                            |                        |                                                                              |               |
| FIRST USED ON: TR02, DW08                                                                                                                                                                                                                        |                        | Eng R. Cady<br>Drawn QC<br>Purch B. Hughes                                   |               |
| D.E.C. PART NO. 30-09282                                                                                                                                                                                                                         |                        | TITLE: H 716 POWER SUPPLY                                                    |               |
| PH-2                                                                                                                                                                                                                                             |                        | Unless other specified use:                                                  |               |
|                                                                                                                                                                                                                                                  |                        | Fractions<br>±                                                               | Decimals<br>± |
|                                                                                                                                                                                                                                                  |                        | Angles<br>±                                                                  |               |
|                                                                                                                                                                                                                                                  |                        | Sheet 1 of 7                                                                 | Scale         |
|                                                                                                                                                                                                                                                  |                        | Number<br>30-09282                                                           | Rev<br>c      |
|                                                                                                                                                                                                                                                  |                        | 100-4 63                                                                     |               |

|                                                                                      |                        |                    |          |
|--------------------------------------------------------------------------------------|------------------------|--------------------|----------|
| digital EQUIPMENT CORPORATION                                                        | PURCHASE SPECIFICATION | Number<br>30-09282 | Rev<br>c |
|                                                                                      |                        | Date<br>1/8/69     |          |
|  |                        | Sheet 2 of 7       |          |
| D.E.C. PART NO. 30-09282                                                             |                        | Number<br>30-09282 |          |
|                                                                                      |                        | Rev<br>c           |          |

Date **1/7/69**

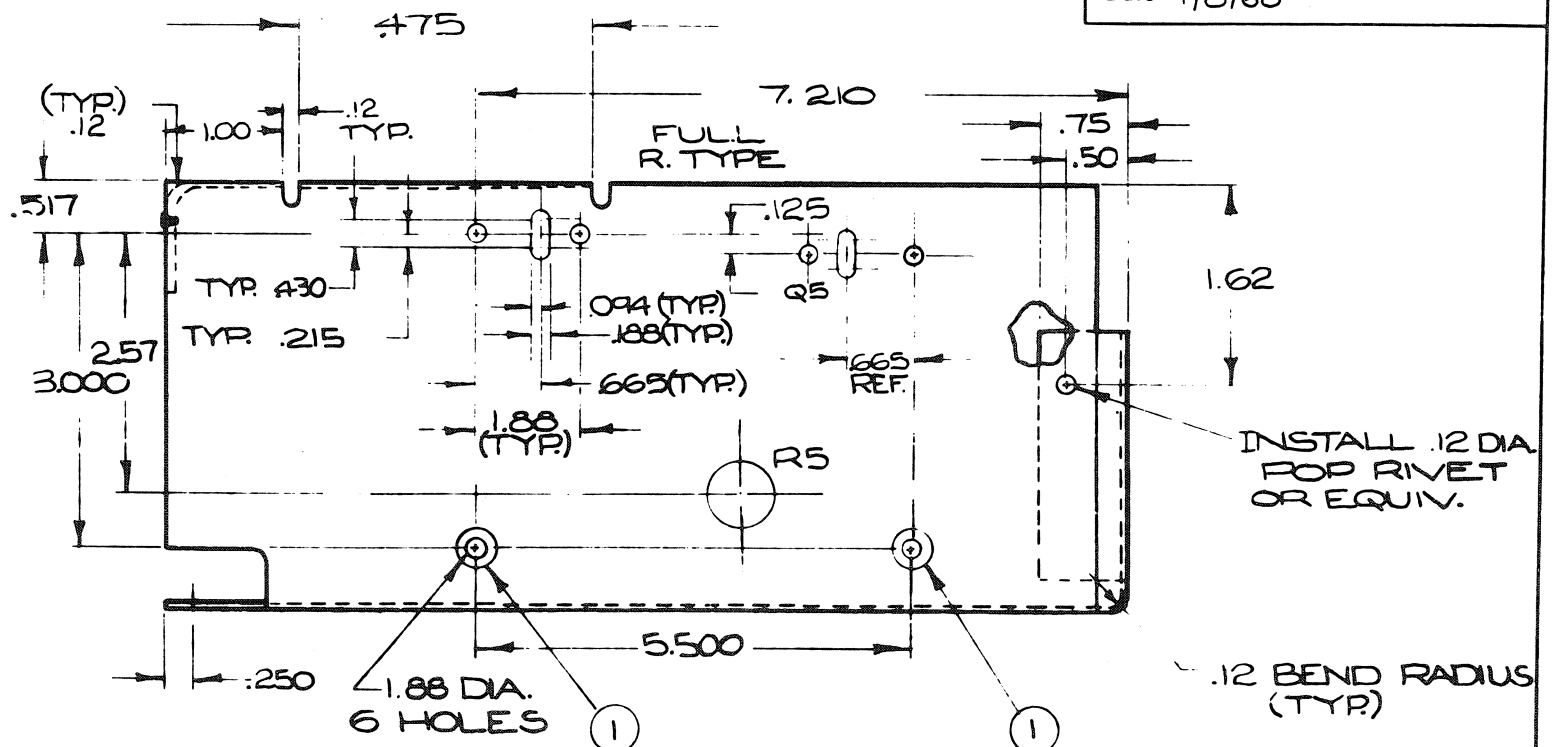


DETAIL A

D.E.C. PART NO.  
**30-09282**

|                           |                 |
|---------------------------|-----------------|
| Sheet 3 of 7              | Scale <b>H</b>  |
| Number<br><b>30-09282</b> | Rev<br><b>c</b> |

Date **1/8/68**



D.E.C. PART NO.  
**30-09282**

|                           |                 |
|---------------------------|-----------------|
| Sheet 4 of 7              | Scale <b>H</b>  |
| Number<br><b>30-09282</b> | Rev<br><b>c</b> |

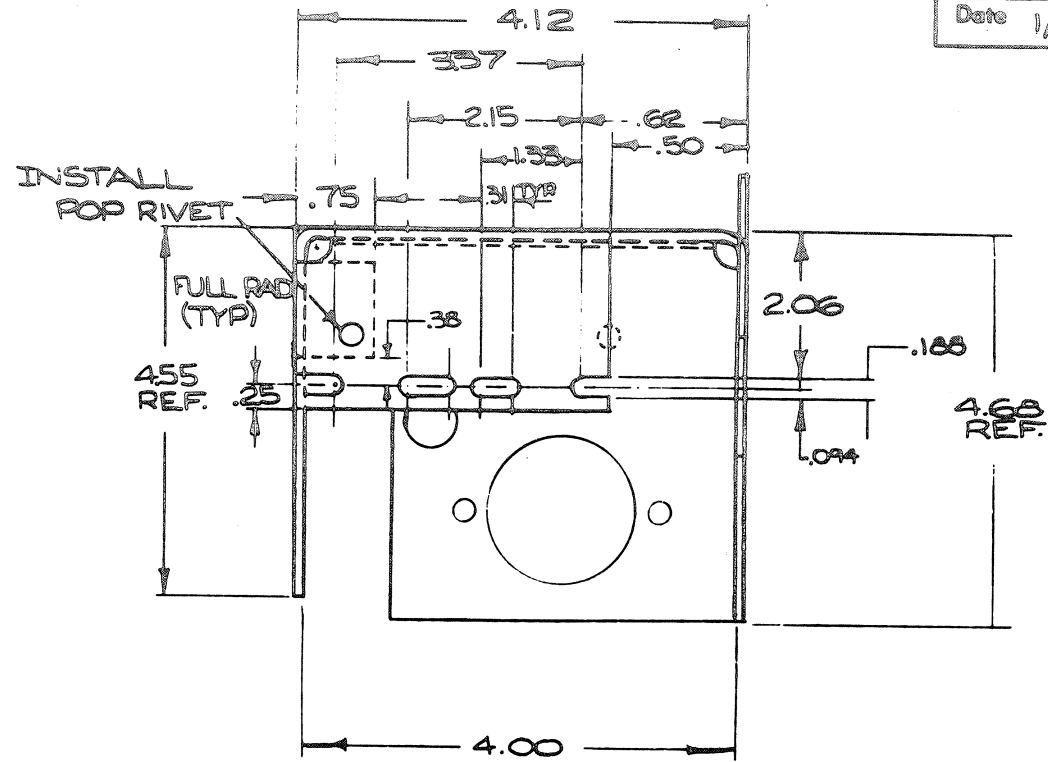


EQUIPMENT  
CORPORATION

# PURCHASE SPECIFICATION

Number 30-09282 Rev c

Date 1/8/69



D.E.C. PART NO.  
30-09282

|                 |             |
|-----------------|-------------|
| Sheet 5 of 7    | Scale --H-- |
| Number 30-09282 | Rev c       |

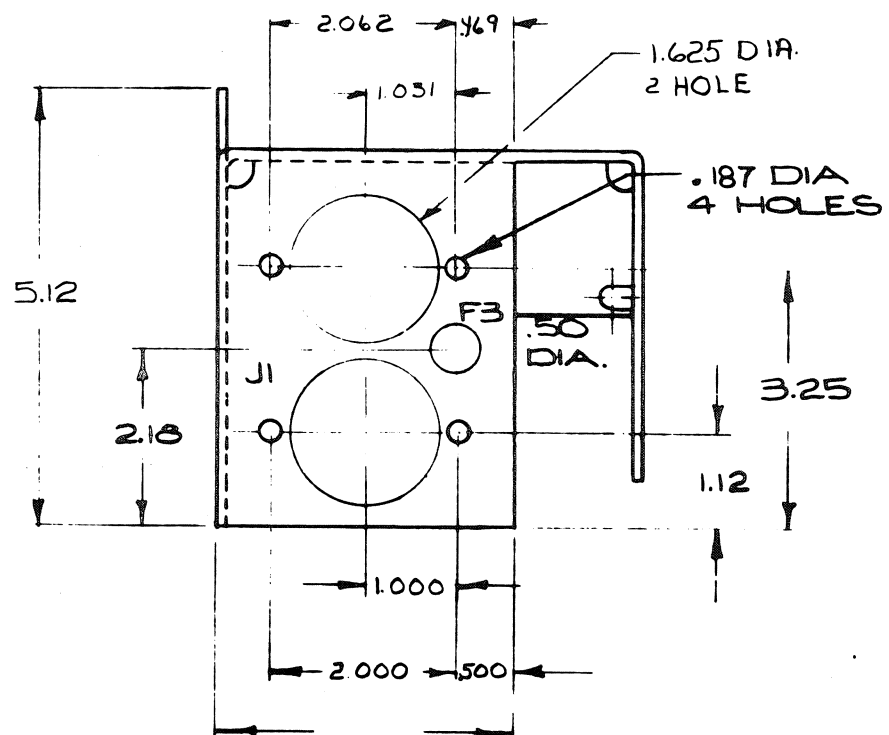


EQUIPMENT  
CORPORATION

# PURCHASE SPECIFICATION

Number 30-09282 Rev c

Date 1/8/69



D.E.C. PART NO.  
30-09282

|                 |             |
|-----------------|-------------|
| Sheet 6 of 7    | Scale --H-- |
| Number 30-09282 | Rev c       |

019100

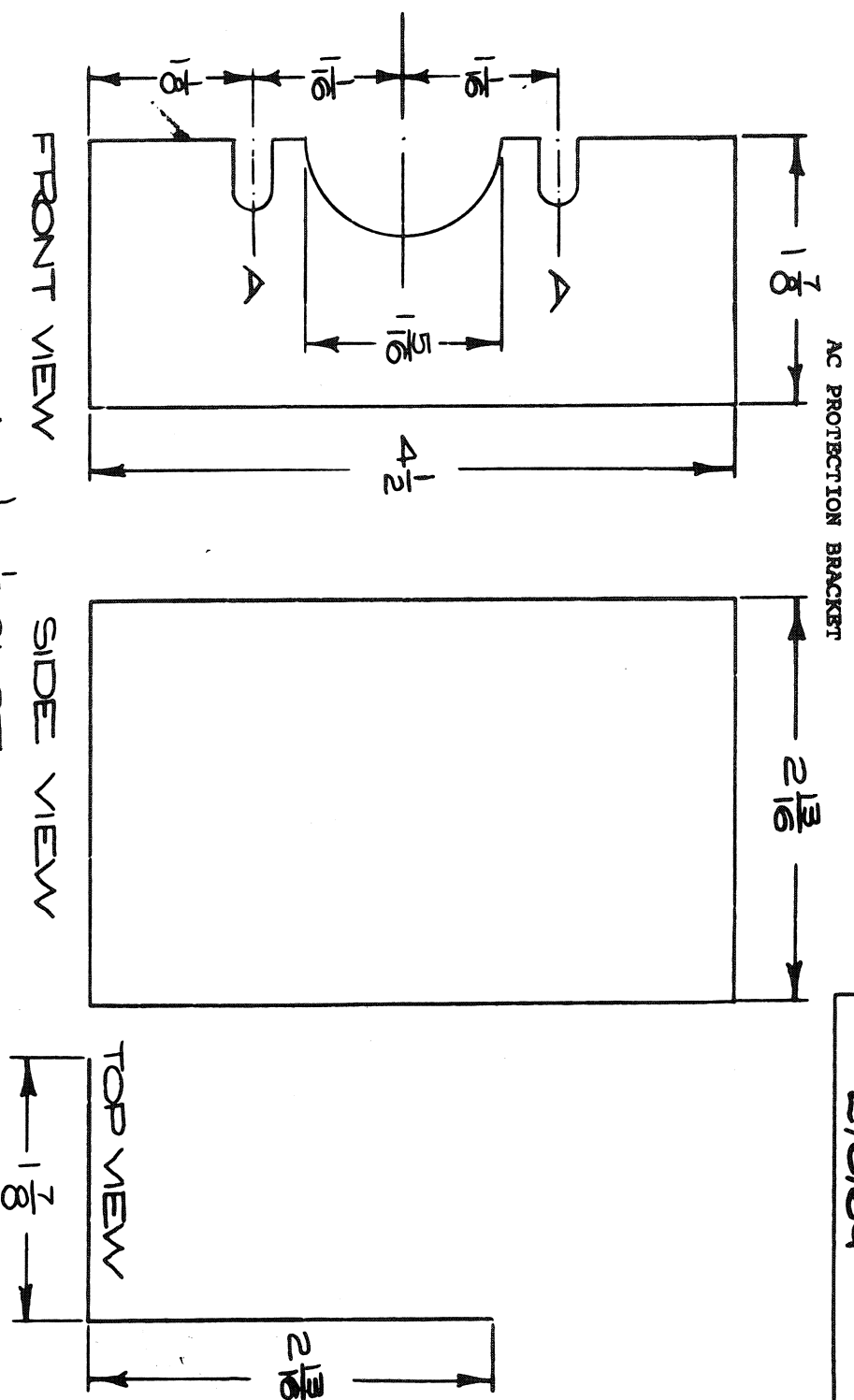
EQUIPMENT  
CORPORATION

PURCHASE SPECIFICATION

Number  
30-09282

Rev  
C

Date 2/6/69



A =  $\frac{1}{4} \times \frac{1}{2}$  SLOT  
MTL =  $\frac{1}{16}$  ALUM.

D.E.C. PART NO. 30-09282

|              |            |
|--------------|------------|
| Sheet 7 of 7 | Scale FULL |
| Number       | Rev        |
| 30-09282     | C          |