

# CALIBRATION and SERVICING HANDBOOK

## Volume 2

### 1281

**selfcal digital multimeter**



# **CALIBRATION and SERVICING HANDBOOK**

for

## **THE DATRON 1281**

### **SELF CAL DIGITAL MULTIMETER**

### **Volume 2 Reference**

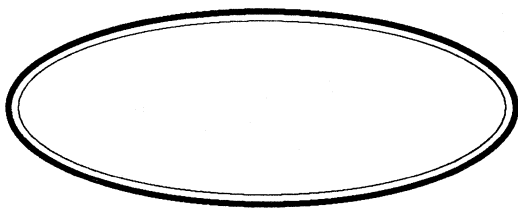
For any assistance contact your nearest Datron Sales and Service center.  
Addresses can be found at the back of this handbook.

**850092**

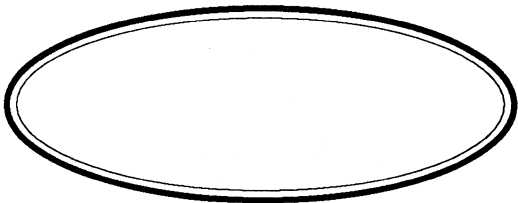
**Issue 2 (JANUARY 1989)**

Due to our policy of continuously updating our products, this handbook may contain minor differences in specification, components and circuit design to the instrument actually supplied. Amendment sheets precisely matched to your serial number are available on request.

**when connected to a high voltage source**



FRONT or REAR terminals  
carry the Full Input Voltage



Guard terminal is sensitive to  
over-voltage

Unless                      are                      that it is                      to do so,  
the                      or                      and

# SECTION 11 1281 Servicing Diagrams and Parts Lists

## Contents

**N.B.** The parts list for an assembly appears immediately after its assembly's diagrams.

### **Mechanical Details**

|                                                     |          |
|-----------------------------------------------------|----------|
| Finished Assembly .....                             | 11.1-1   |
| Finished Assembly and Interconnection Diagram ..... | 11.1-2   |
| Instrument Assembly .....                           | 11.1-3   |
| Chassis Assembly .....                              | 11.1-4,5 |
| Bezel and Terminal Mechanical Assemblies .....      | 11.1-6   |
| Top and Bottom Covers .....                         | 11.1-7   |
| Mains Transformer and Low Voltage Transformer ..... | 11.1-8   |
| Terminal Assembly .....                             | 11.1-9   |

### **D.C. Assembly**

|                                            |         |
|--------------------------------------------|---------|
| Input Signal Switching .....               | 11.2-1  |
| DC Switching, Protection and Ranging ..... | 11.2-2  |
| DC Preamplifier .....                      | 11.2-3  |
| References and Signal Switching .....      | 11.2-4  |
| Analog to Digital Converter .....          | 11.2-5  |
| Selfcal Multiplier .....                   | 11.2-6  |
| Opto Isolators and Relay Update .....      | 11.2-7  |
| Control and Relay Drive .....              | 11.2-8  |
| In - Guard Power Supplies .....            | 11.2-9  |
| Read Rate and Clock boards .....           | 11.2-10 |

### **Display Assembly**

|                      |        |
|----------------------|--------|
| Display Driver ..... | 11.3-1 |
|----------------------|--------|

### **Digital Assembly**

|                                                          |        |
|----------------------------------------------------------|--------|
| Expanded Layout Drawing .....                            | 11.4-1 |
| Processor, Address Decoding and Memory .....             | 11.4-2 |
| ASIC and I/O .....                                       | 11.4-3 |
| Keyboard/Display Interface and Power Fail Detector ..... | 11.4-4 |
| IEEE Interface and Serial Interface .....                | 11.4-5 |
| Power Supplies .....                                     | 11.4-6 |

### **A.C. Assembly**

|                                                     |        |
|-----------------------------------------------------|--------|
| Preamplifier .....                                  | 11.5-1 |
| Precision Rectifier and Logarithmic Amplifier ..... | 11.5-2 |
| R.M.S Converter .....                               | 11.5-3 |
| Control Logic .....                                 | 11.5-4 |

### **Ohms Assembly**

|                             |        |
|-----------------------------|--------|
| Low Follower .....          | 11.6-1 |
| Constant Current Sink ..... | 11.6-2 |
| Control Logic .....         | 11.6-3 |

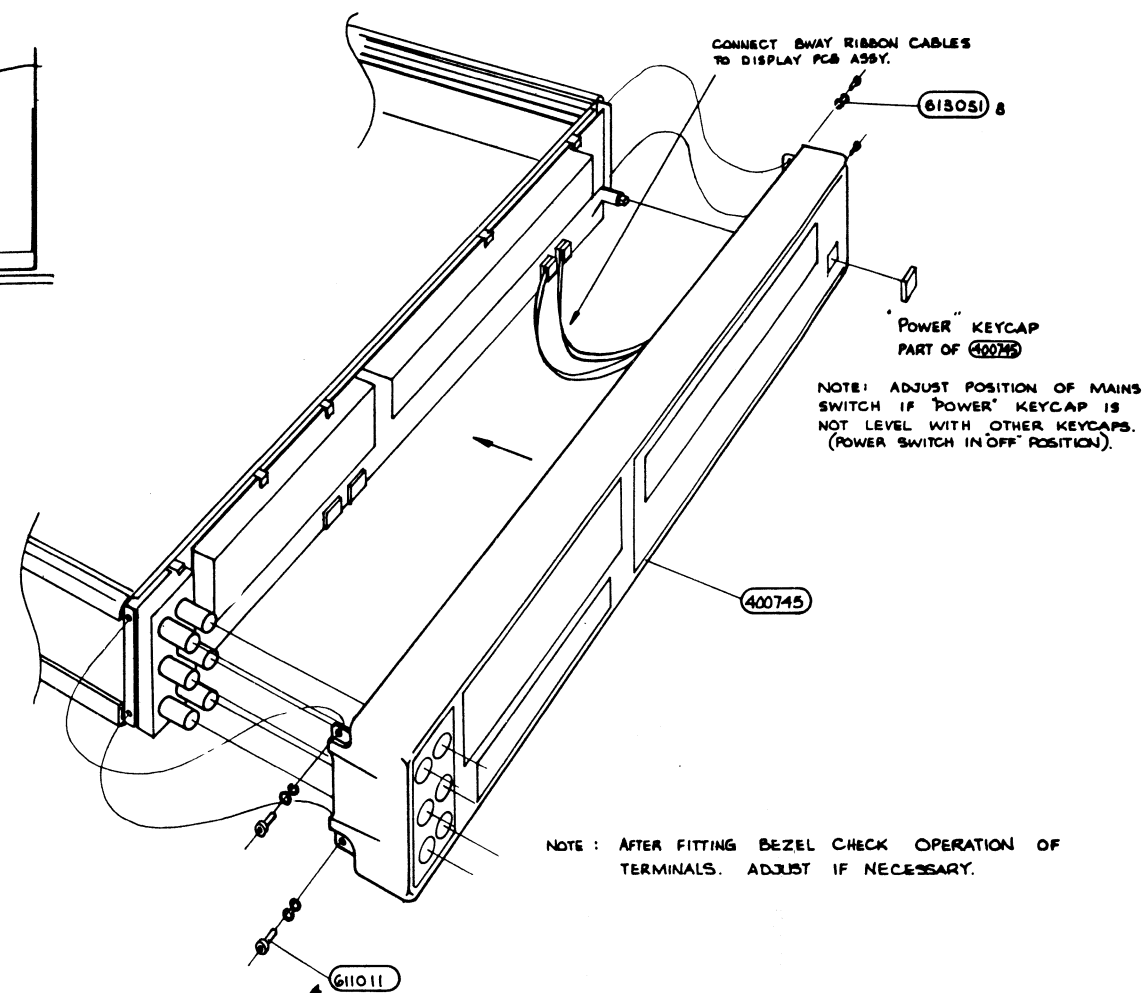
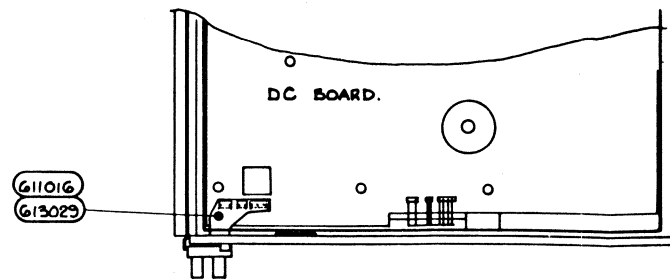
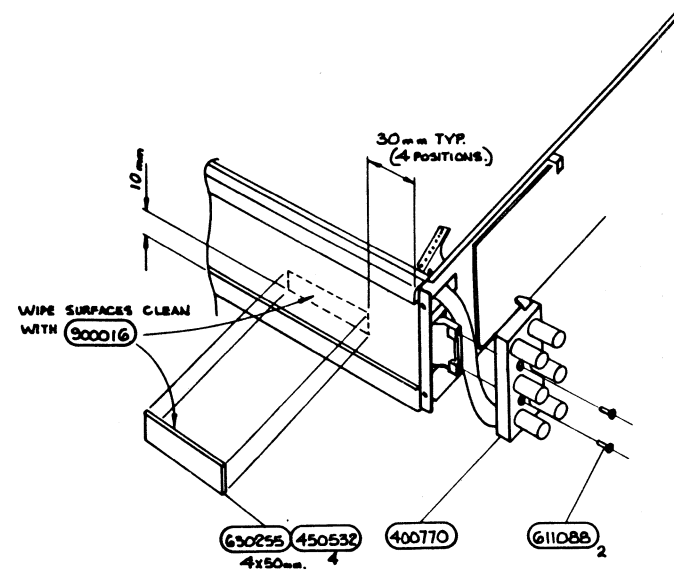
### **Current Assembly**

|                                    |        |
|------------------------------------|--------|
| Current to Voltage Converter ..... | 11.7-1 |
| Control Logic .....                | 11.7-2 |

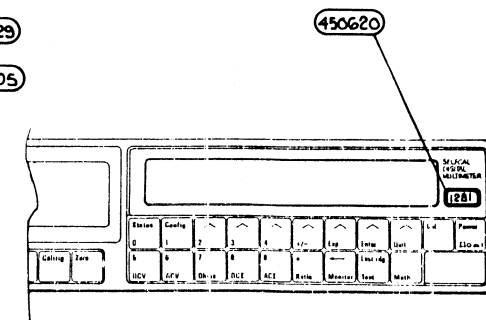
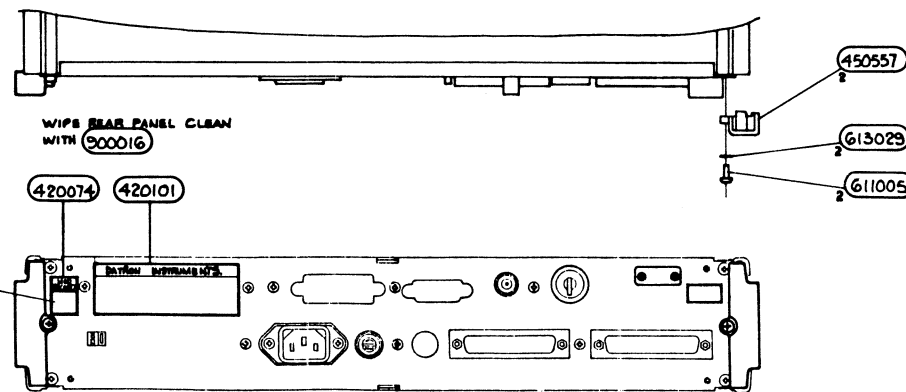
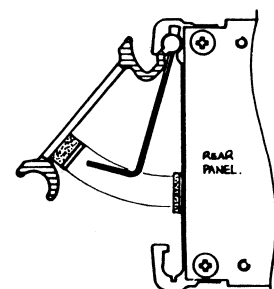
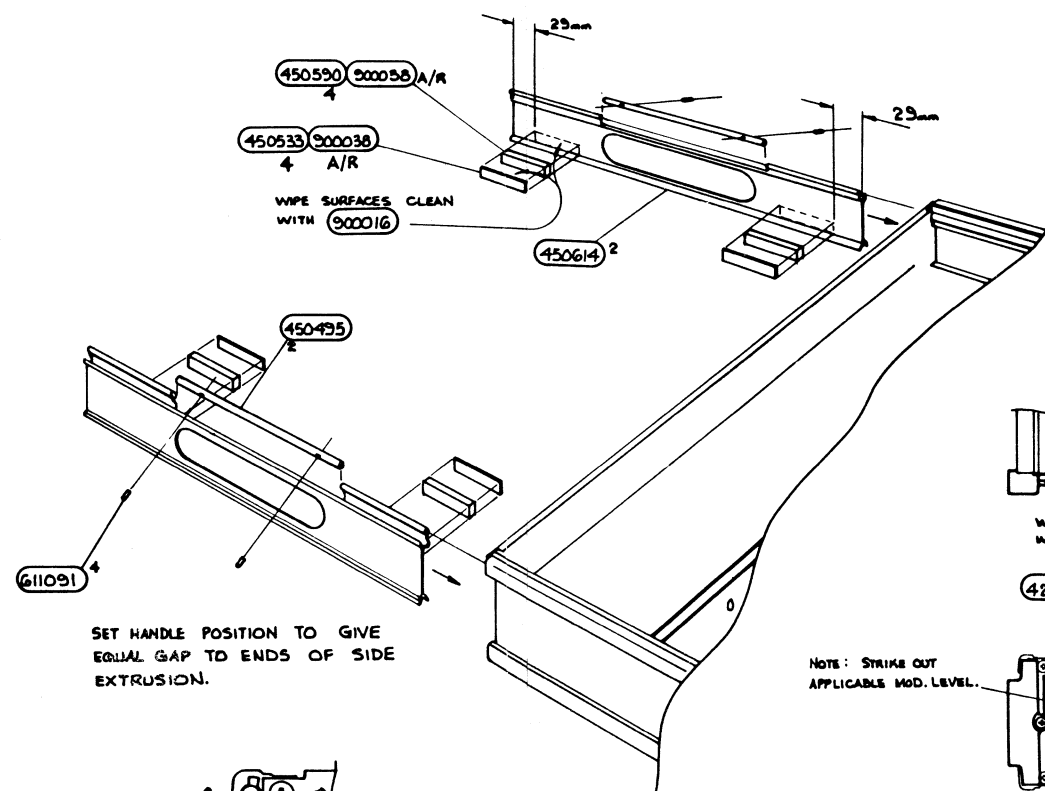
### **Keyboard Switch Assembly**

|                                 |        |
|---------------------------------|--------|
| Front Panel Switch Matrix ..... | 11.8-1 |
|---------------------------------|--------|

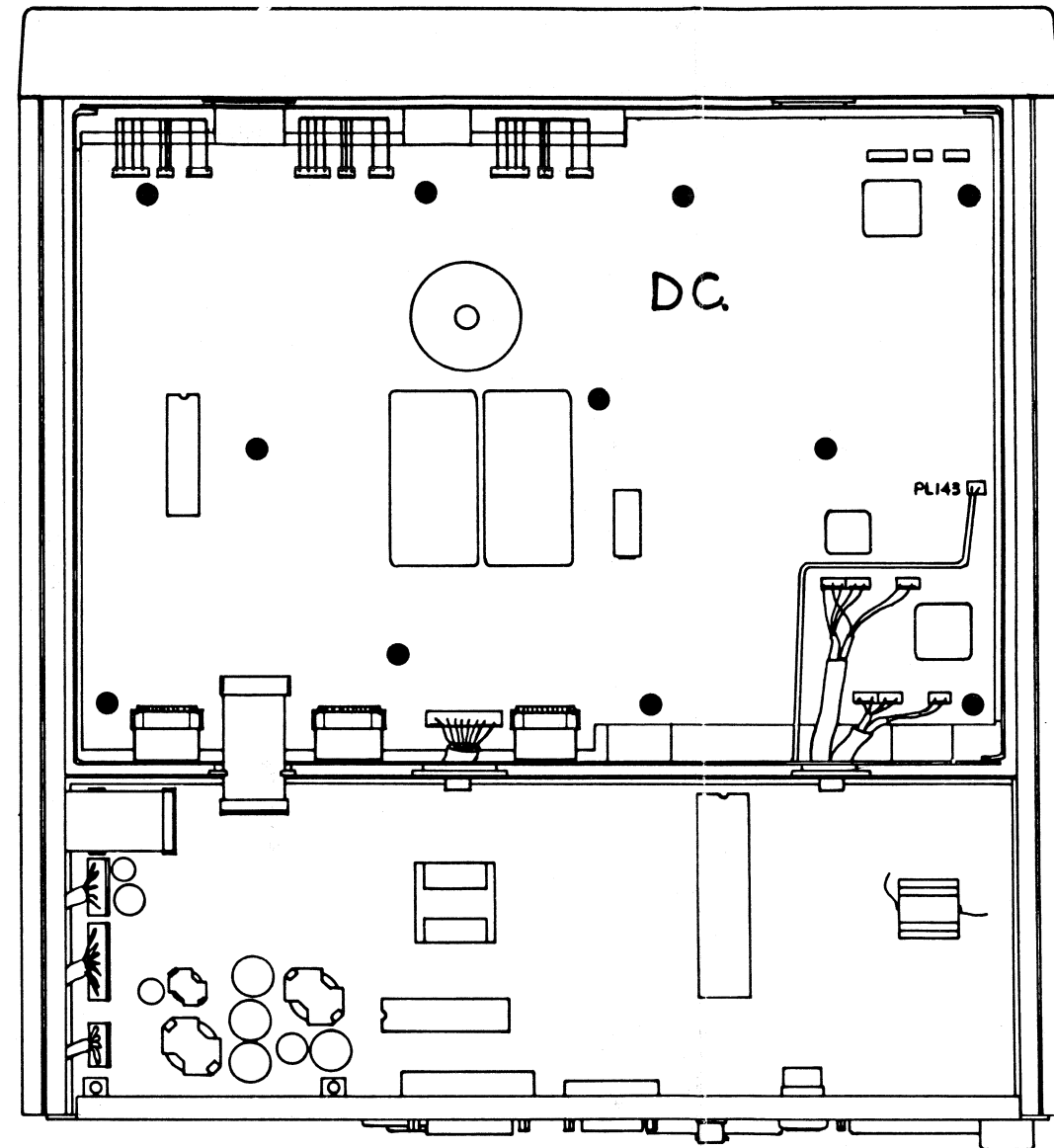




NOTE: AFTER FITTING BEZEL CHECK OPERATION OF TERMINALS. ADJUST IF NECESSARY.

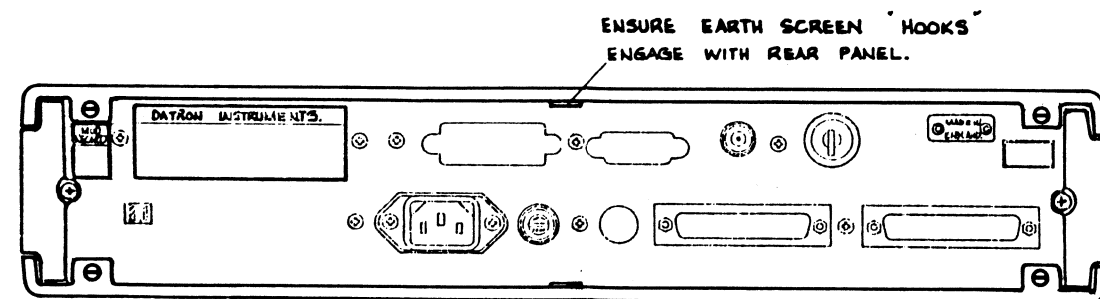
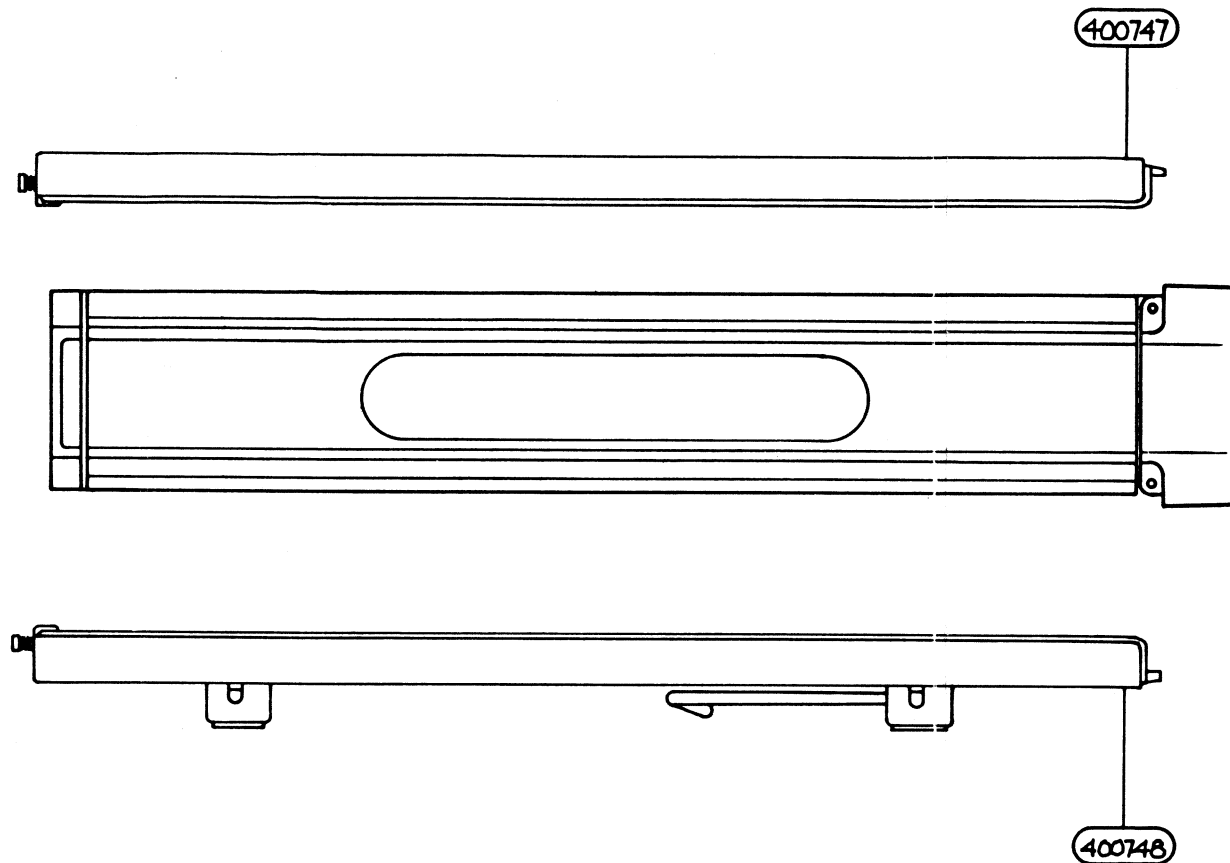


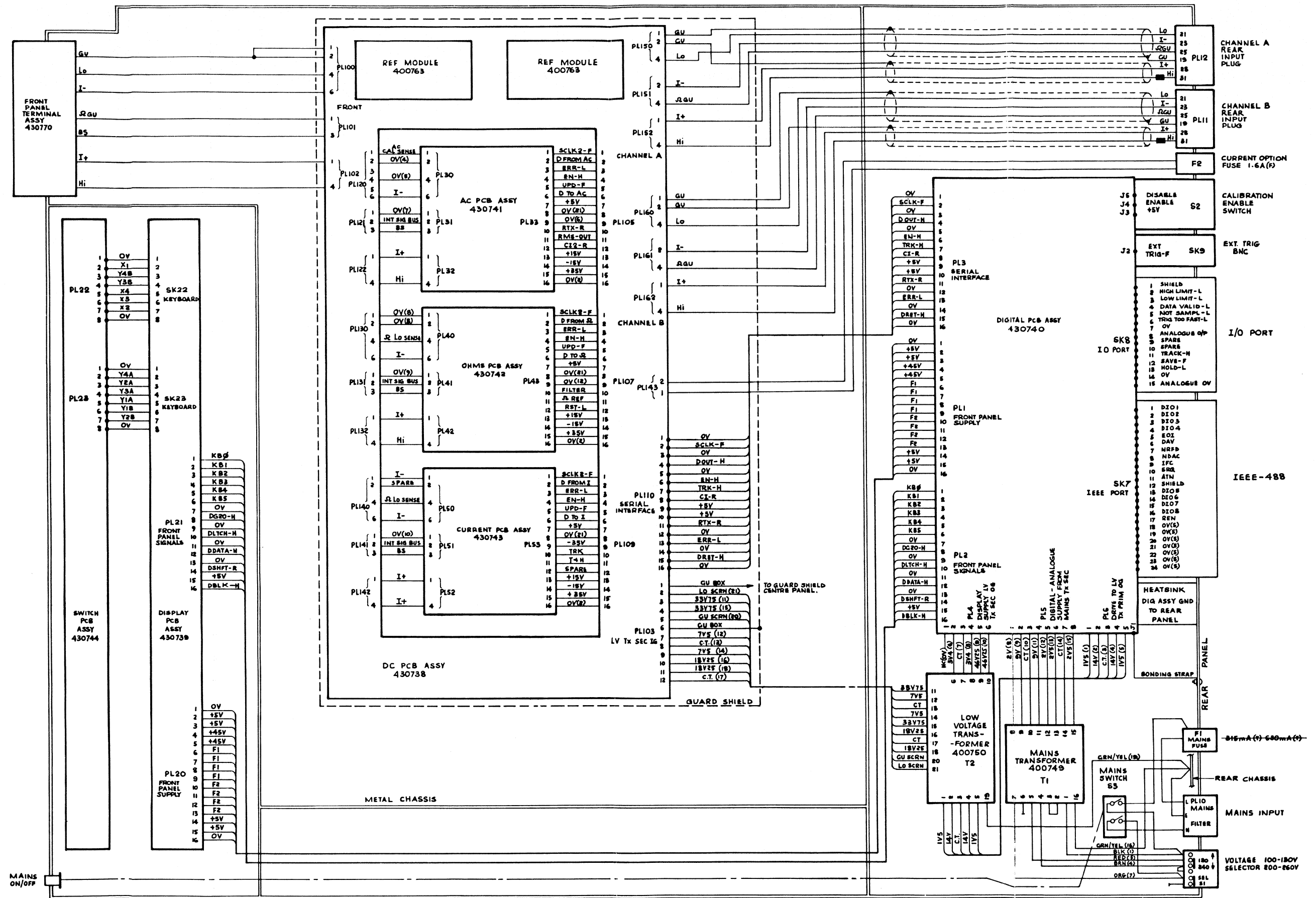
FIT REQUIRED OPTION BOARDS IN POSITIONS SHOWN, SECURE TO CENTRE SHIELD USING NYLATCH PRESS FASTENERS. (2 & 1)  
(AC BOARD FIXED BY SCREWS).



**TOP VIEW**

Sheet 2

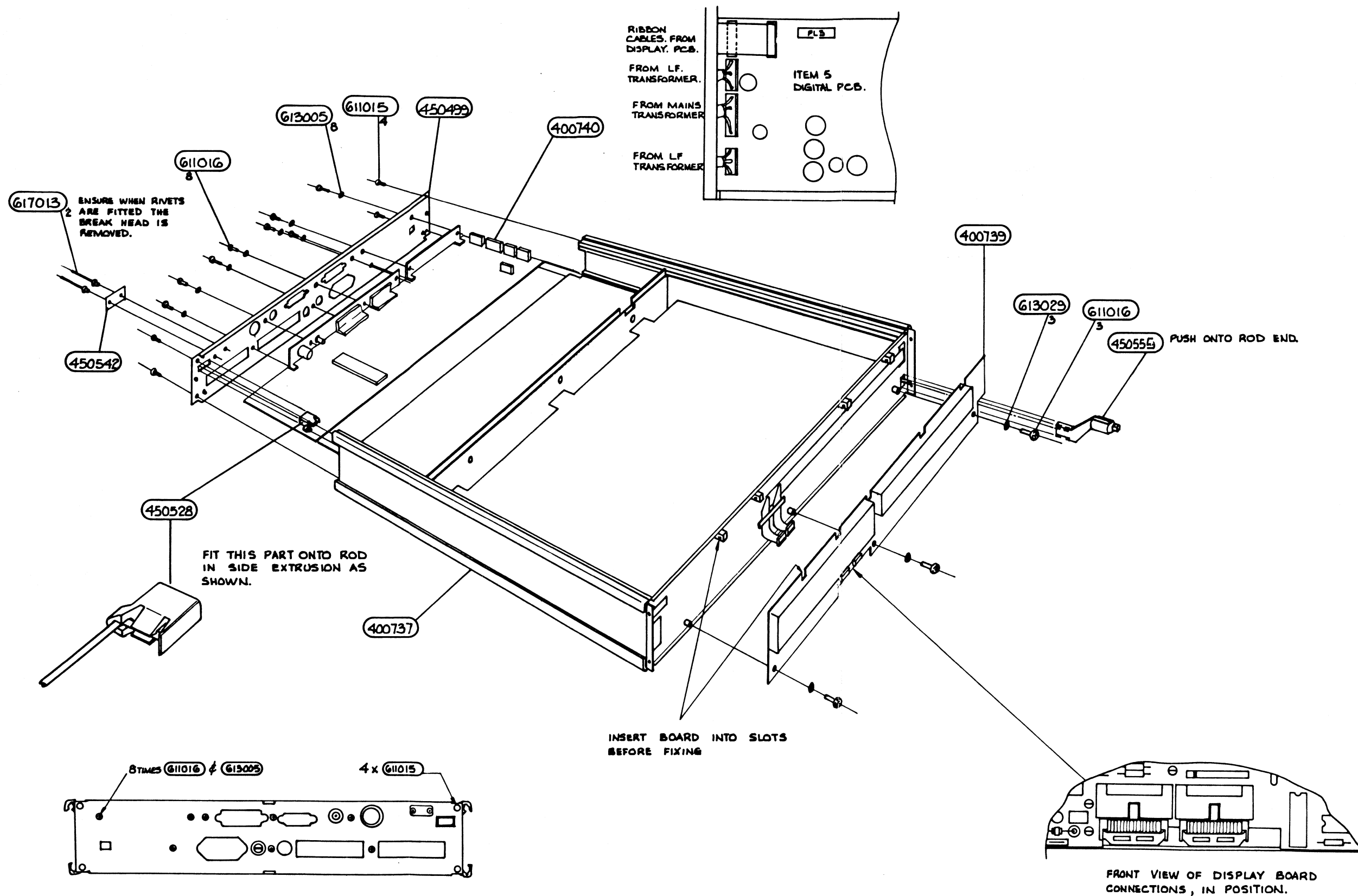


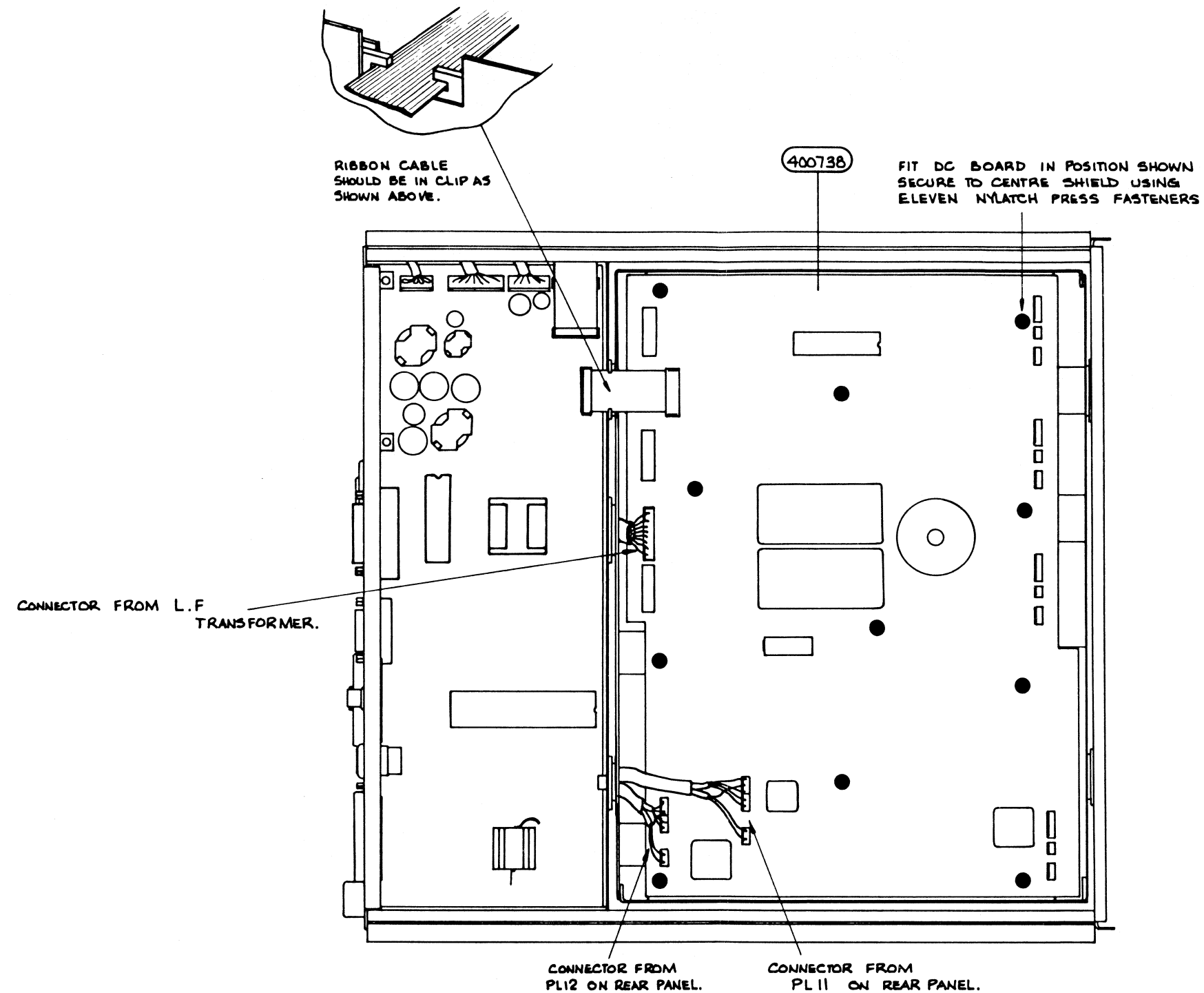


# INTERCONNECTION DIAGRAM

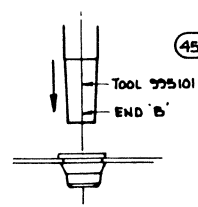
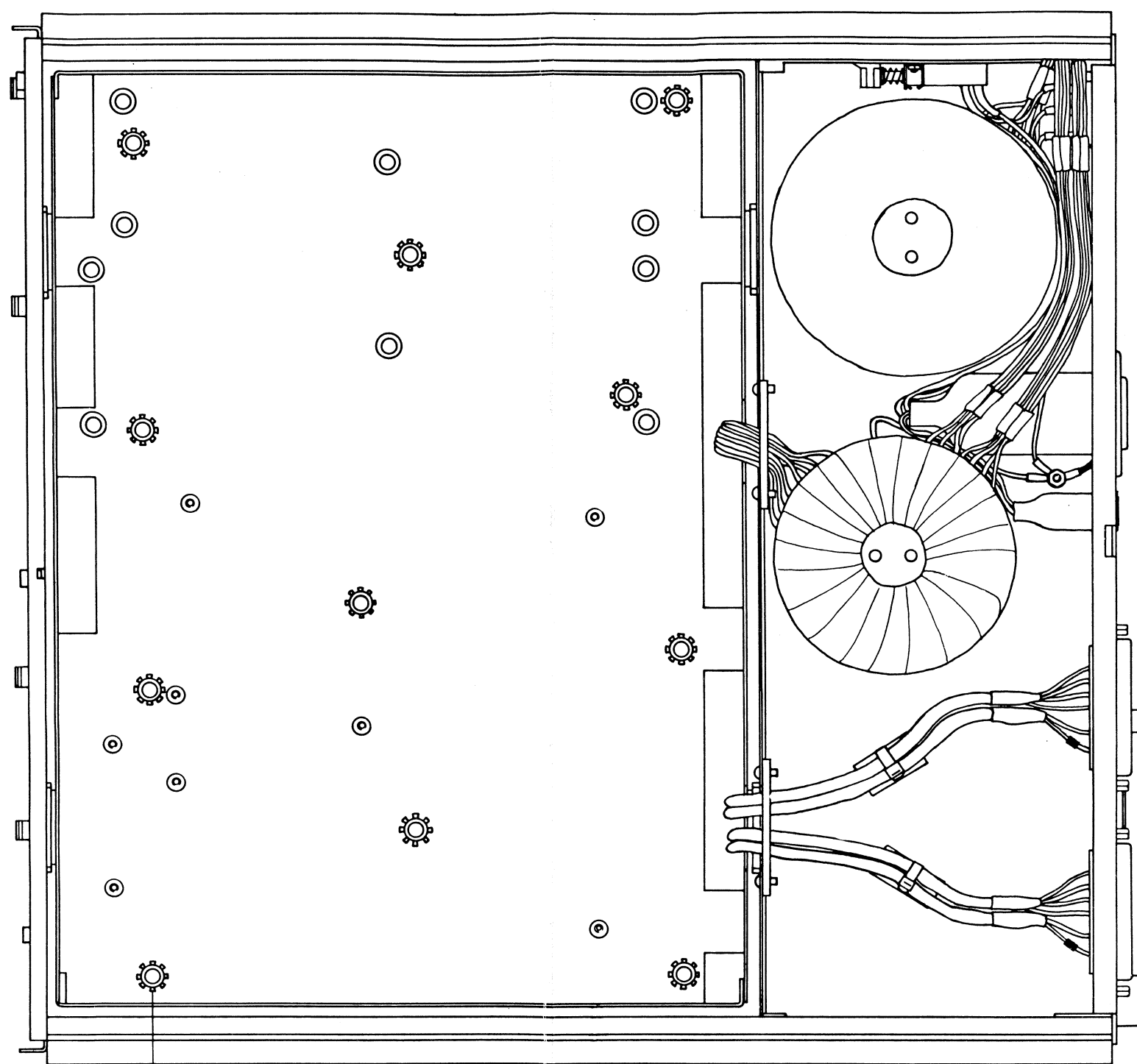
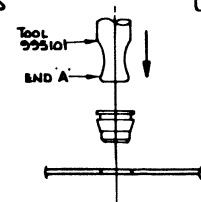
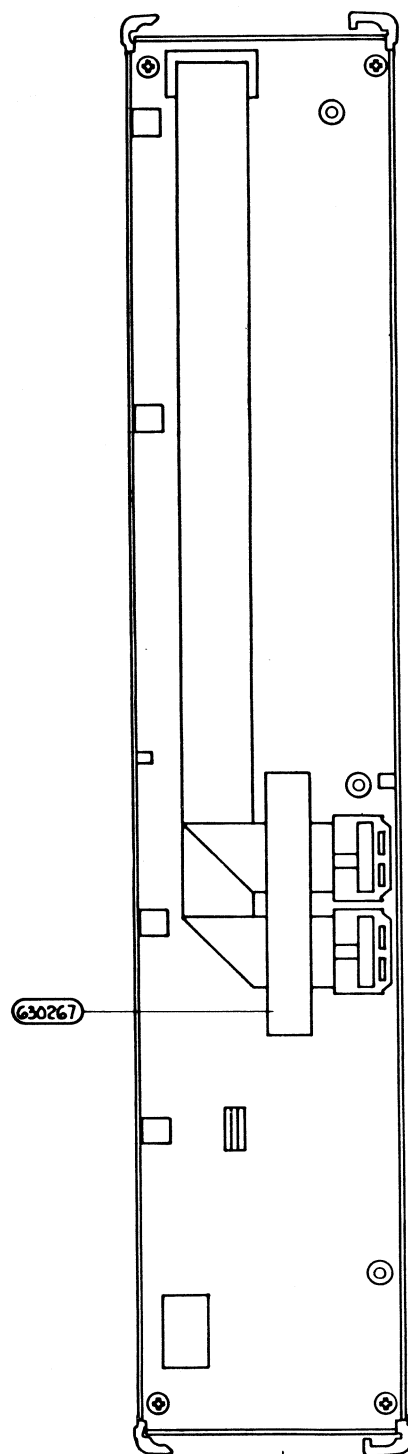
Drawing No. 430734

Sheet 1

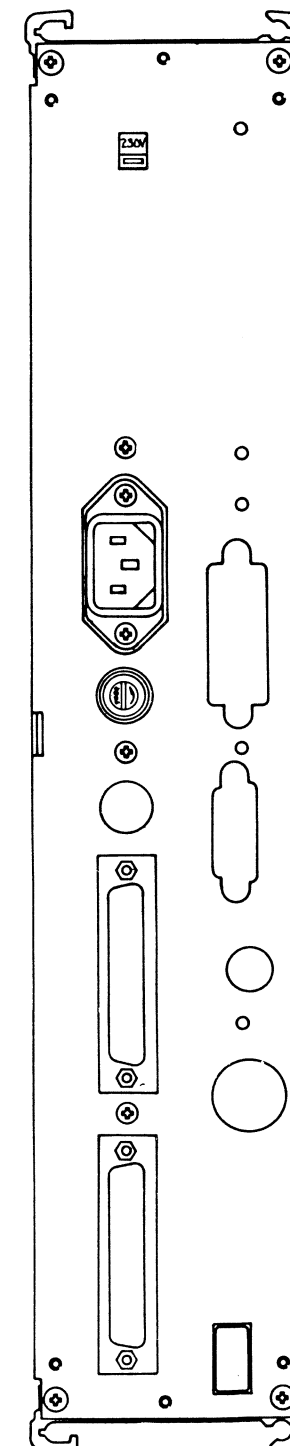


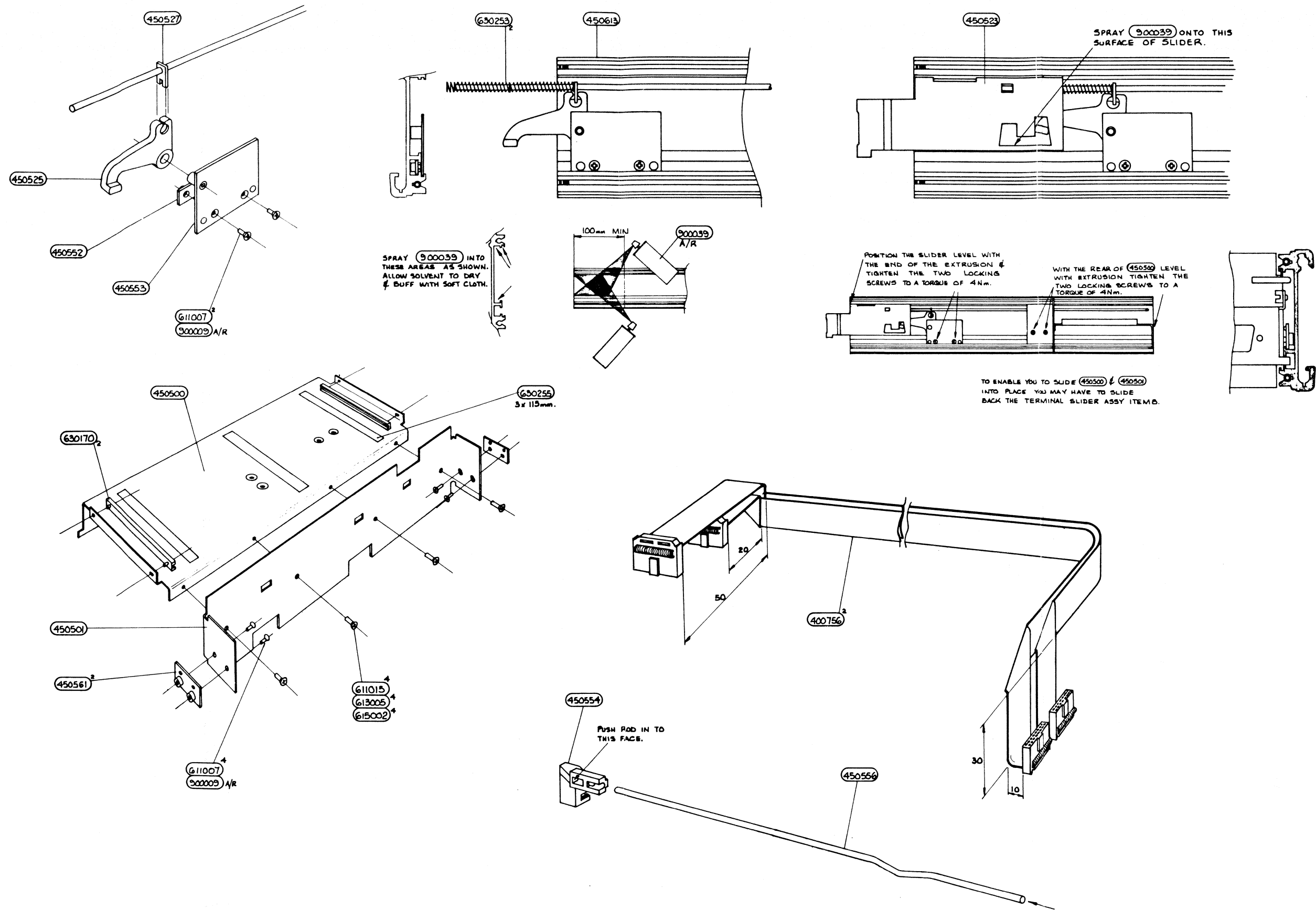






FIT IT FROM THIS SIDE & 10  
FROM OPPOSITE SIDE. USE TOOLS  
AS SHOWN.



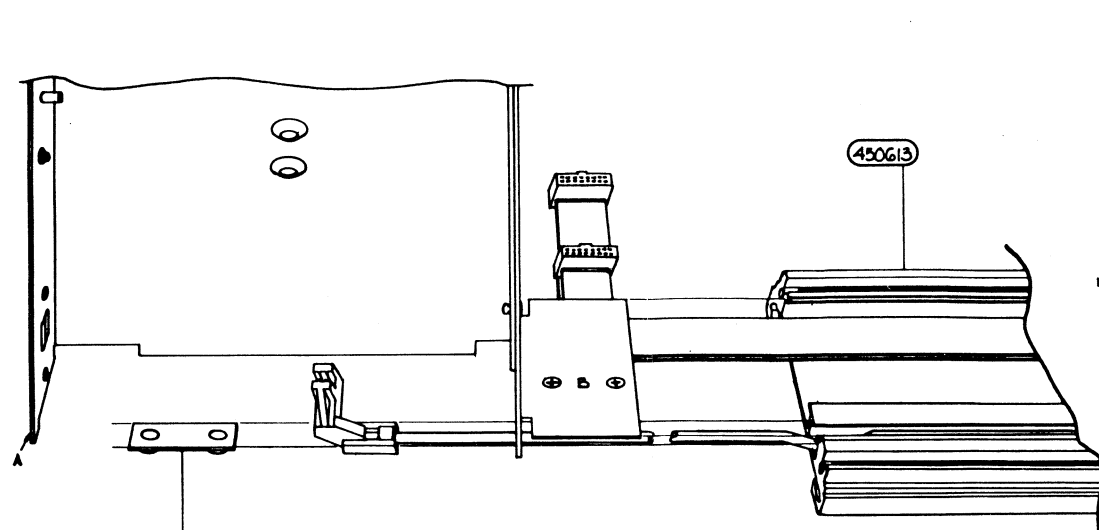


# CHASSIS ASSEMBLY

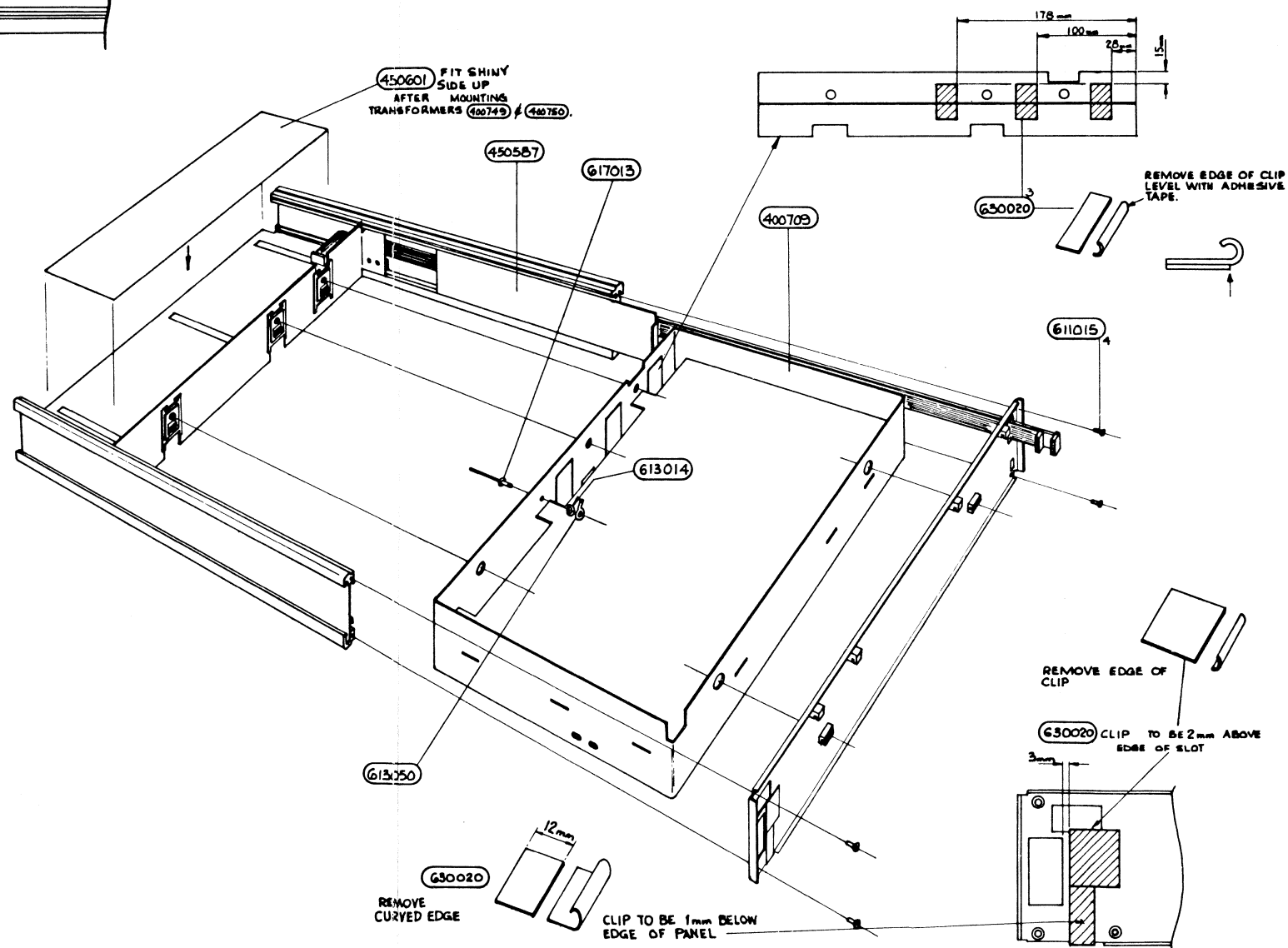
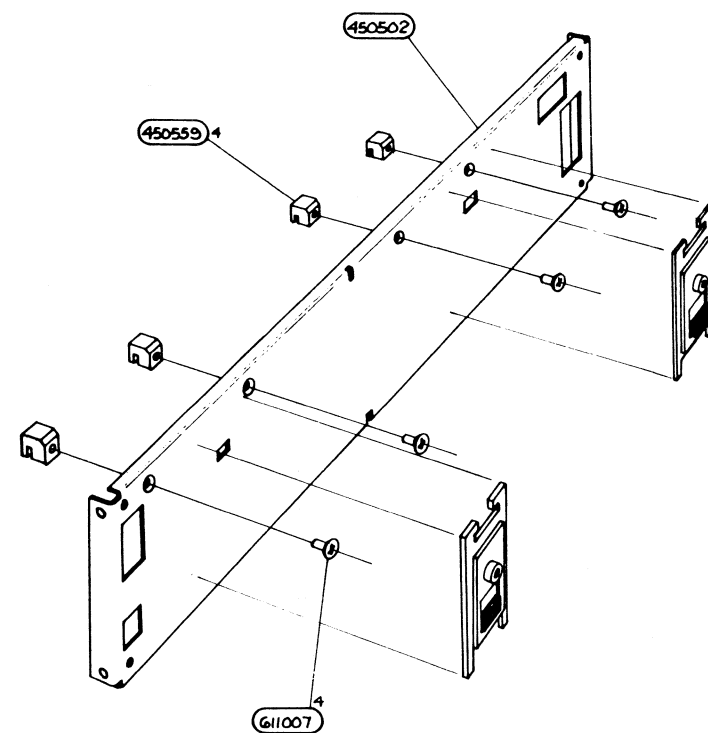
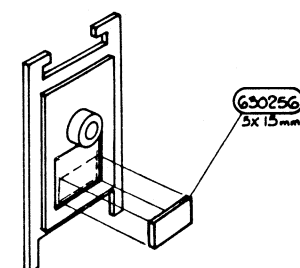
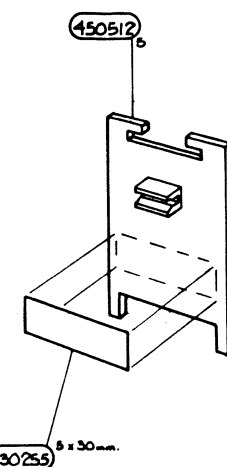
Drawing No. 480737

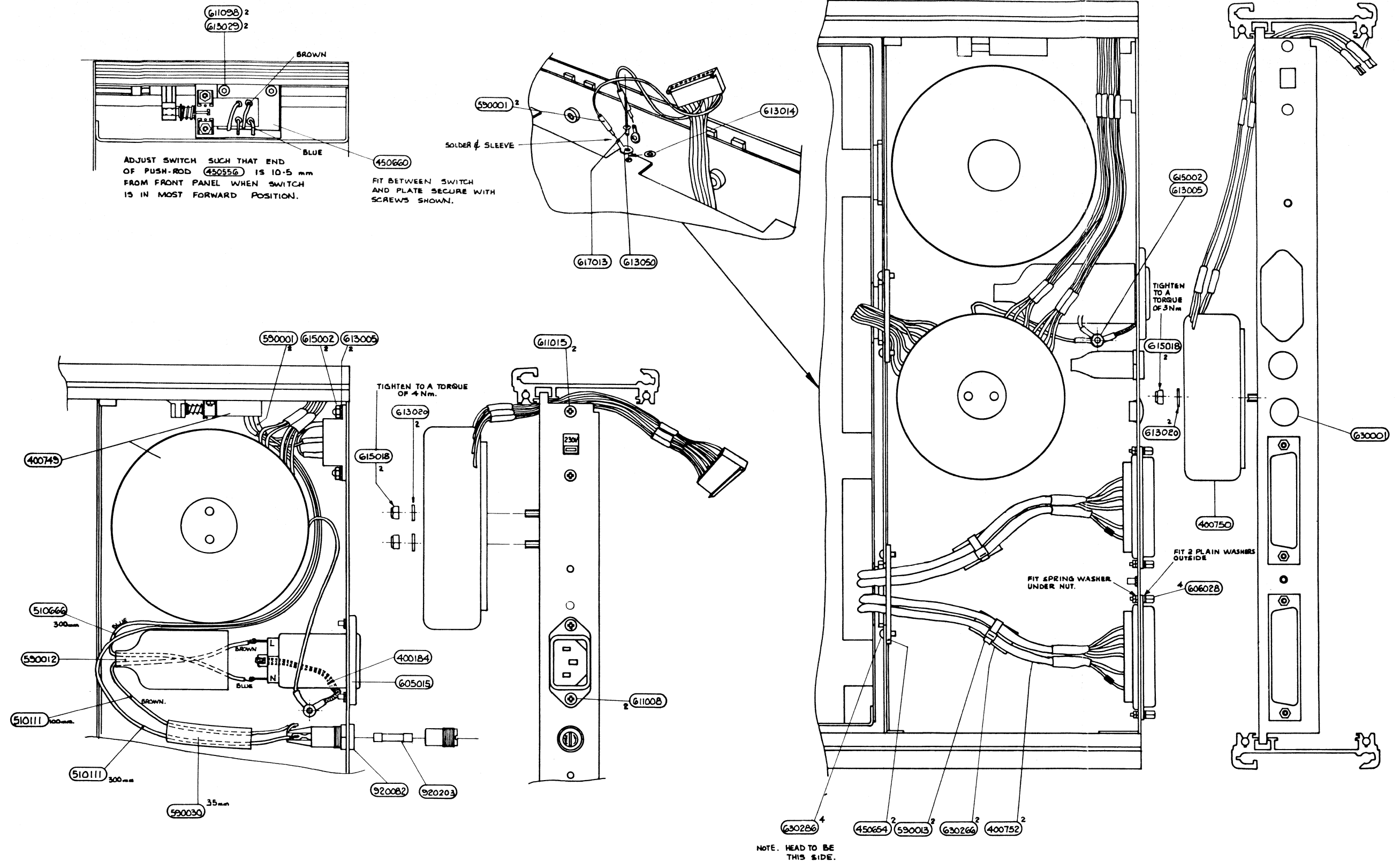
Sheet 2





LAY RIBBON CABLES ONTO EXTRUSION CAREFULLY SUDE OTHER PARTS INTO PLACE IN THE ORDER SHOWN, UNTIL FACE 'A' IS LEVEL WITH END OF EXTRUSION THEN TIGHTEN TWO SCREWS AT 'B'.



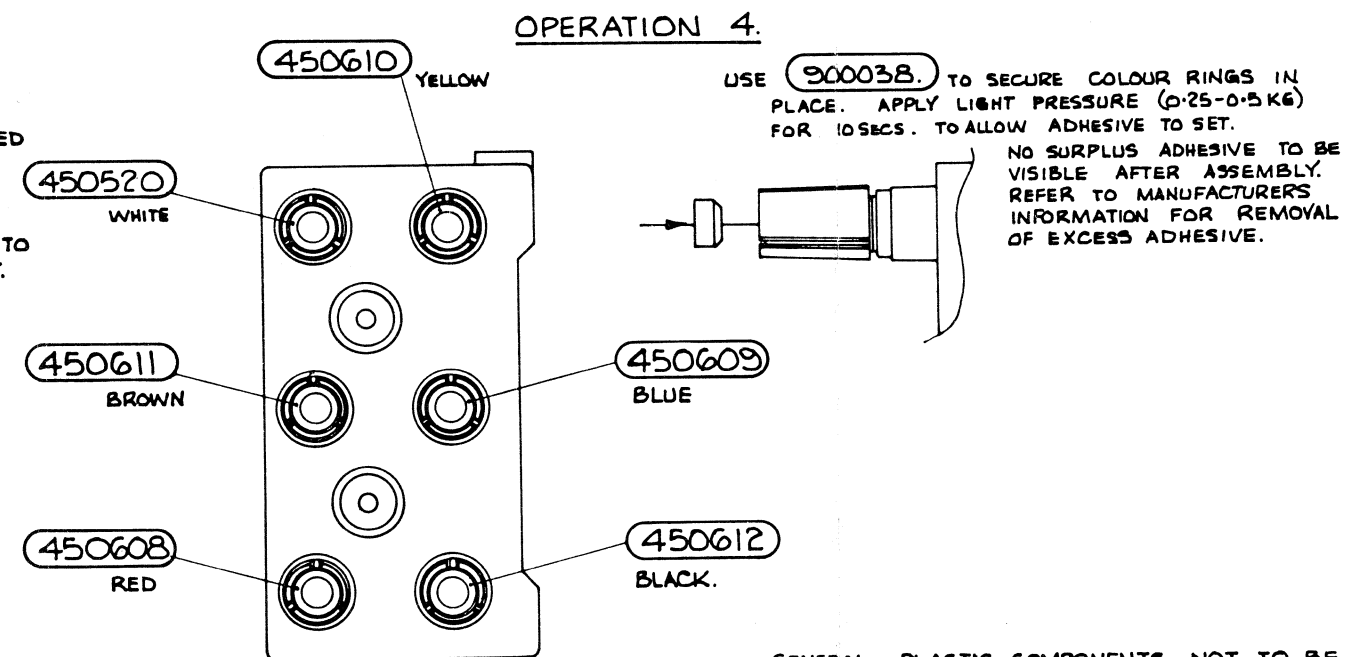
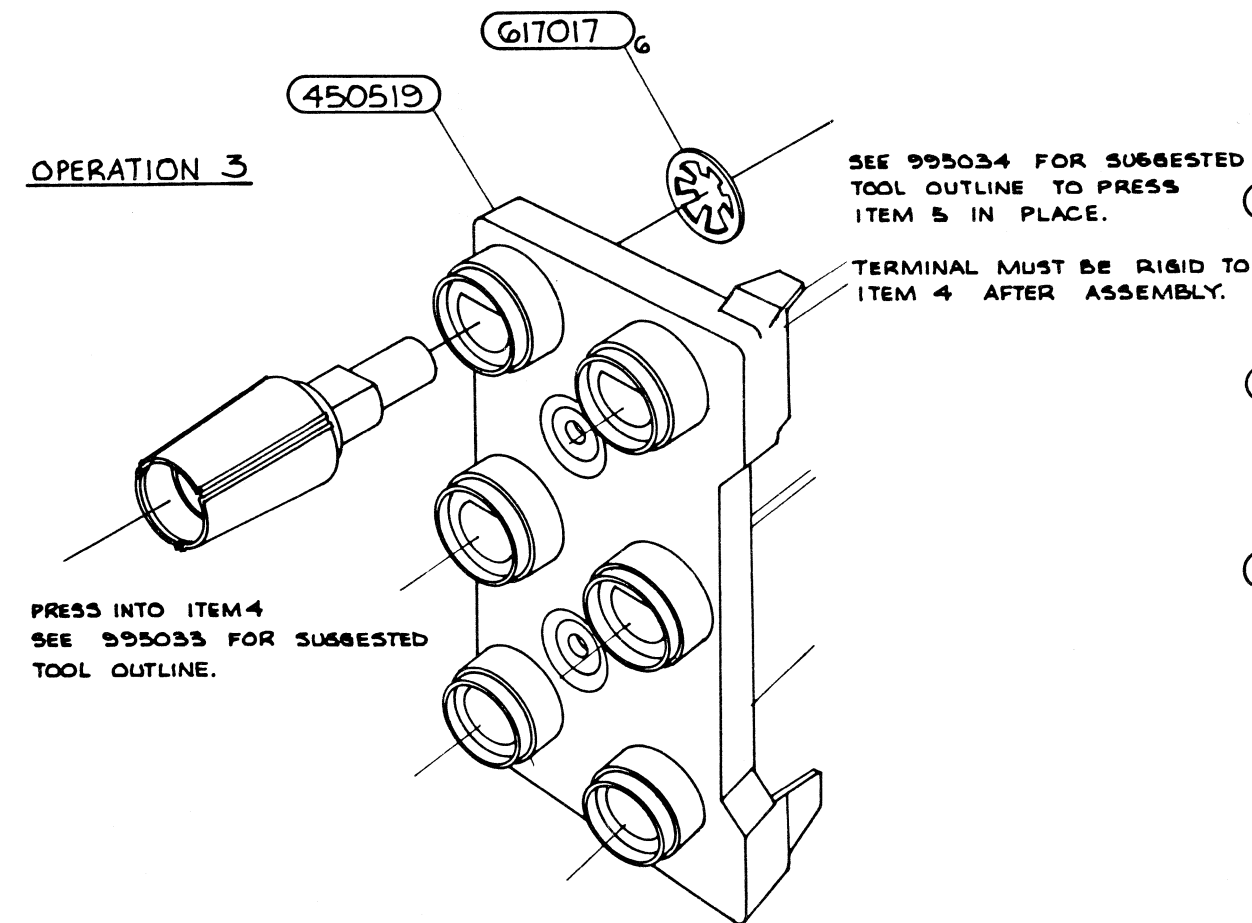
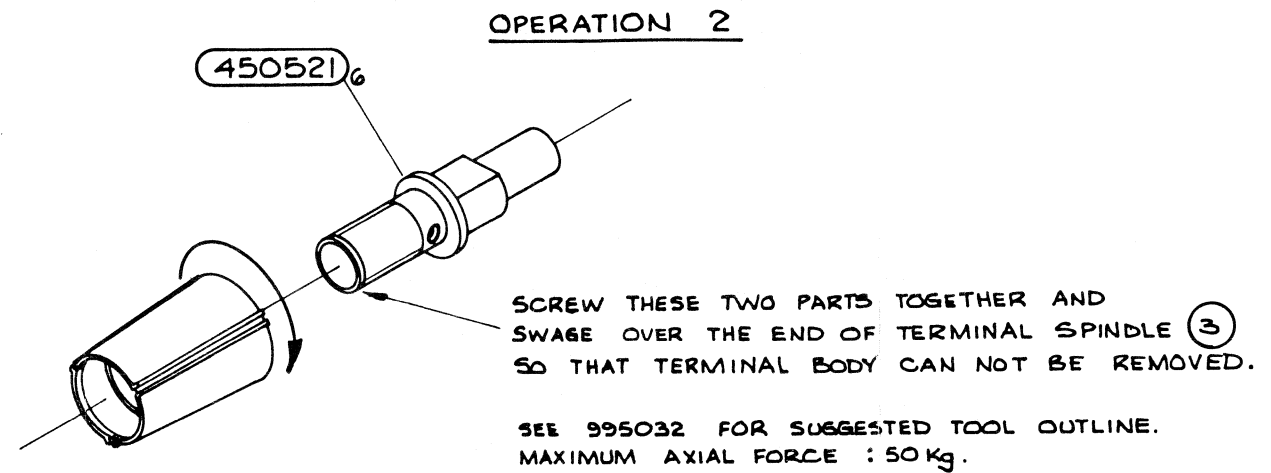
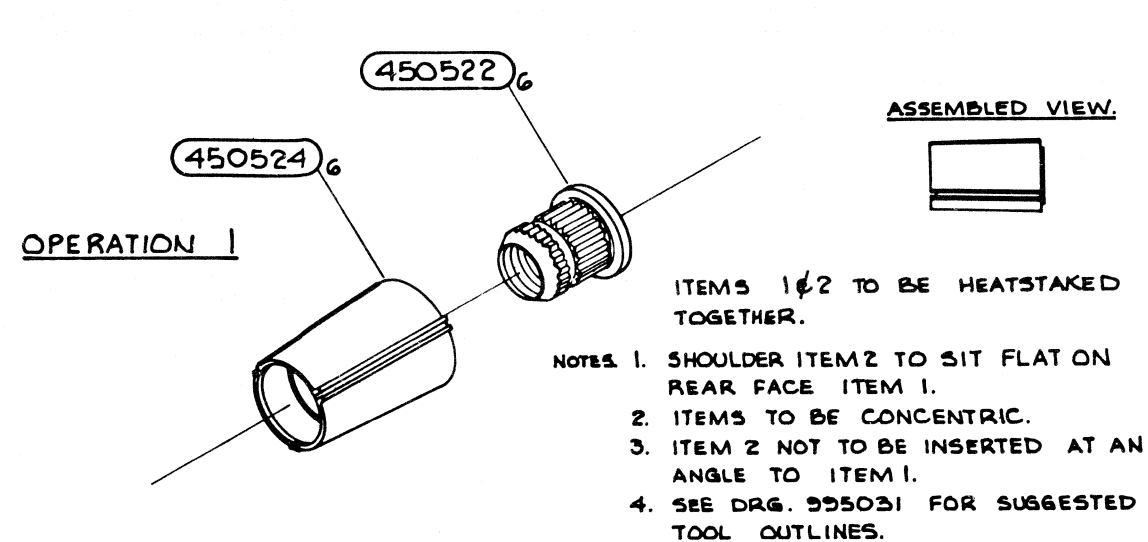


# CHASSIS ASSEMBLY

Drawing No. 480737

Sheet 4



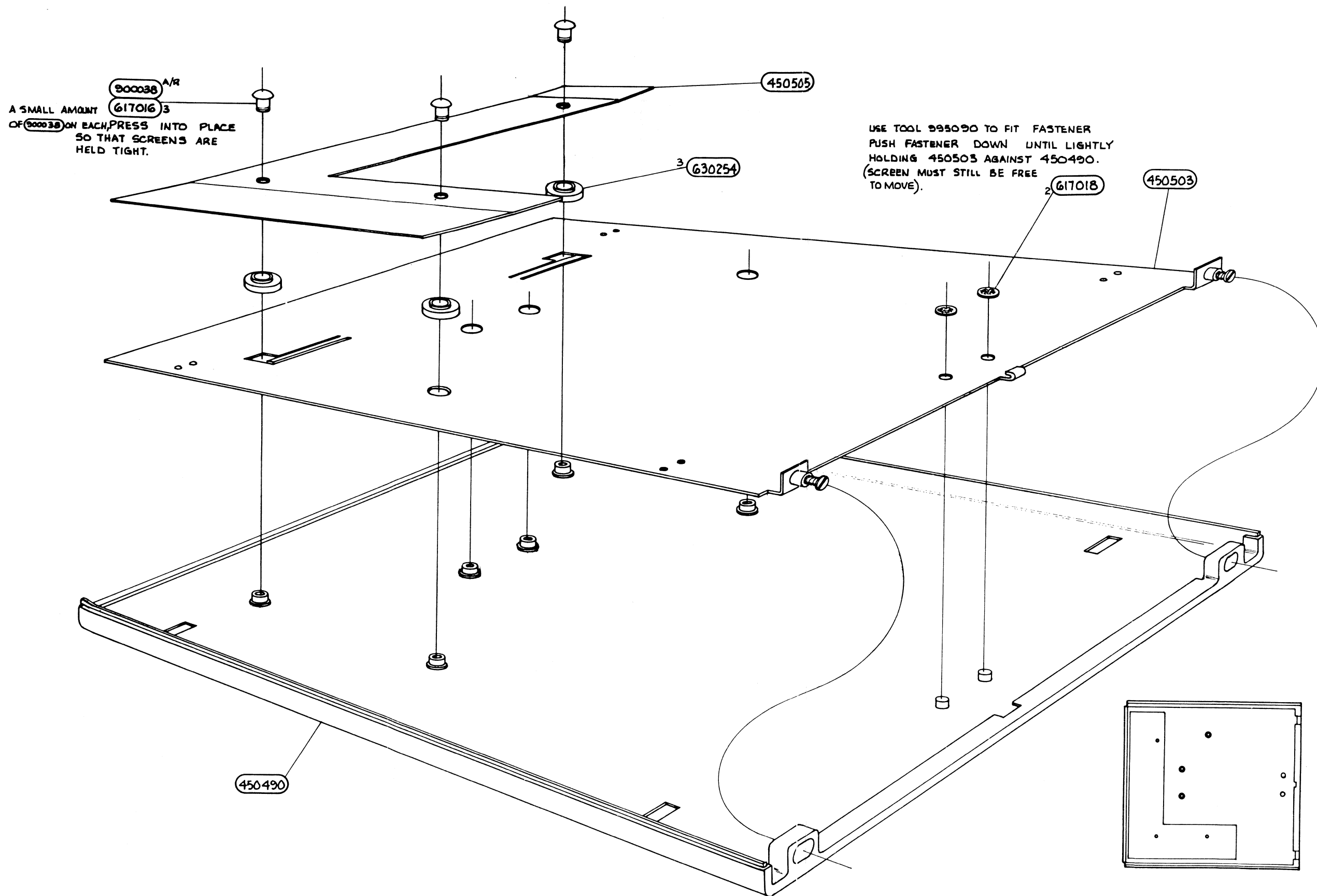


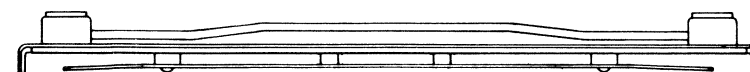
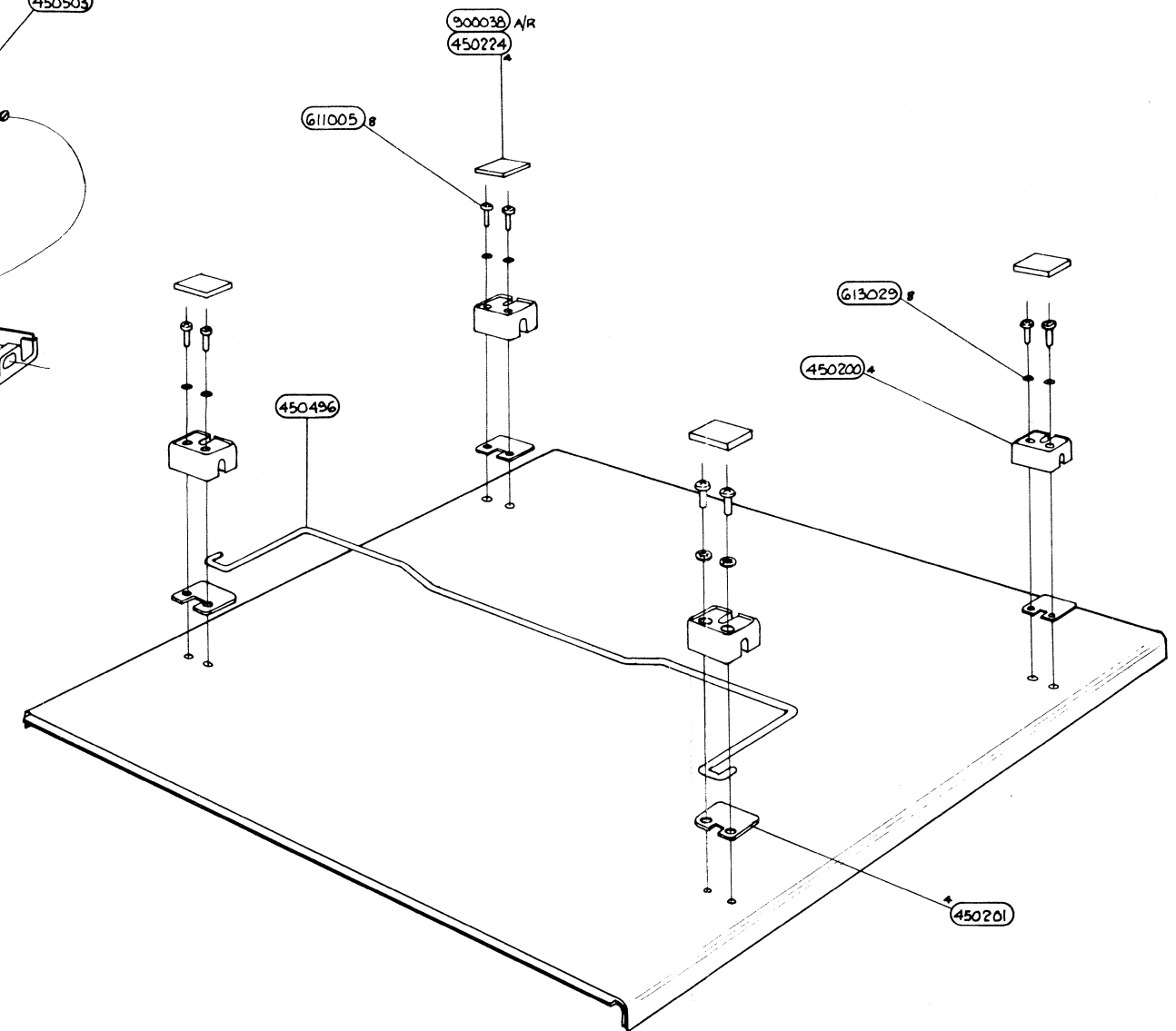
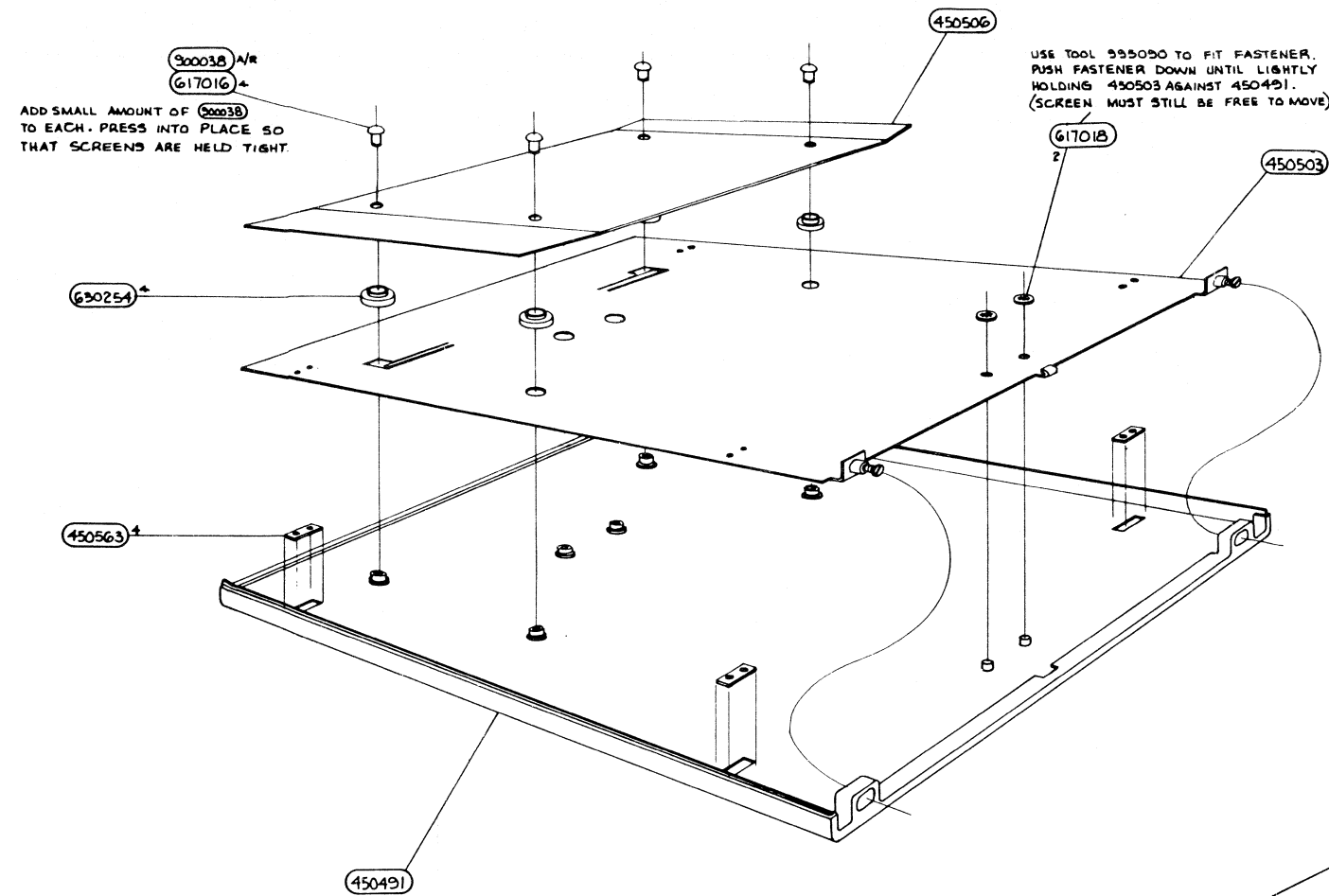
**GENERAL.** PLASTIC COMPONENTS NOT TO BE DAMAGED BY ASSEMBLY PROCESS. USE OF SUGGESTED TOOLS IS RECOMMENDED. ALL TERMINALS TO BE PERPENDICULAR TO BASE AND RUN TRUE ON THREADS.

# TERMINAL MECHANICAL ASSEMBLY

Drawing No. 480746

Sheet 1



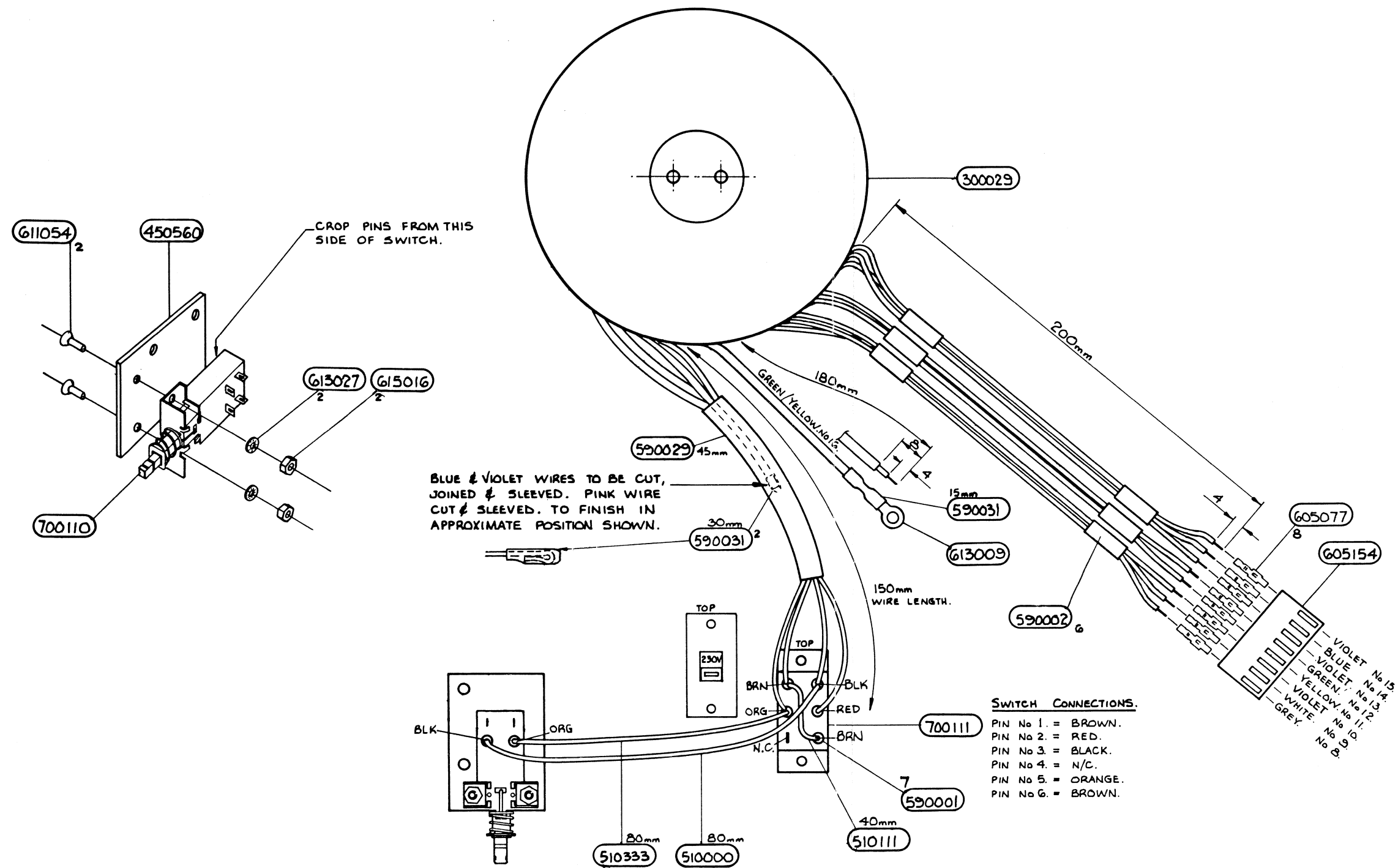


VIEW FROM FRONT OF COVER.  
NOTE DIRECTION OF BEND OF 450506 GUARD SCREEN  
AND 450496 TILT STAND.

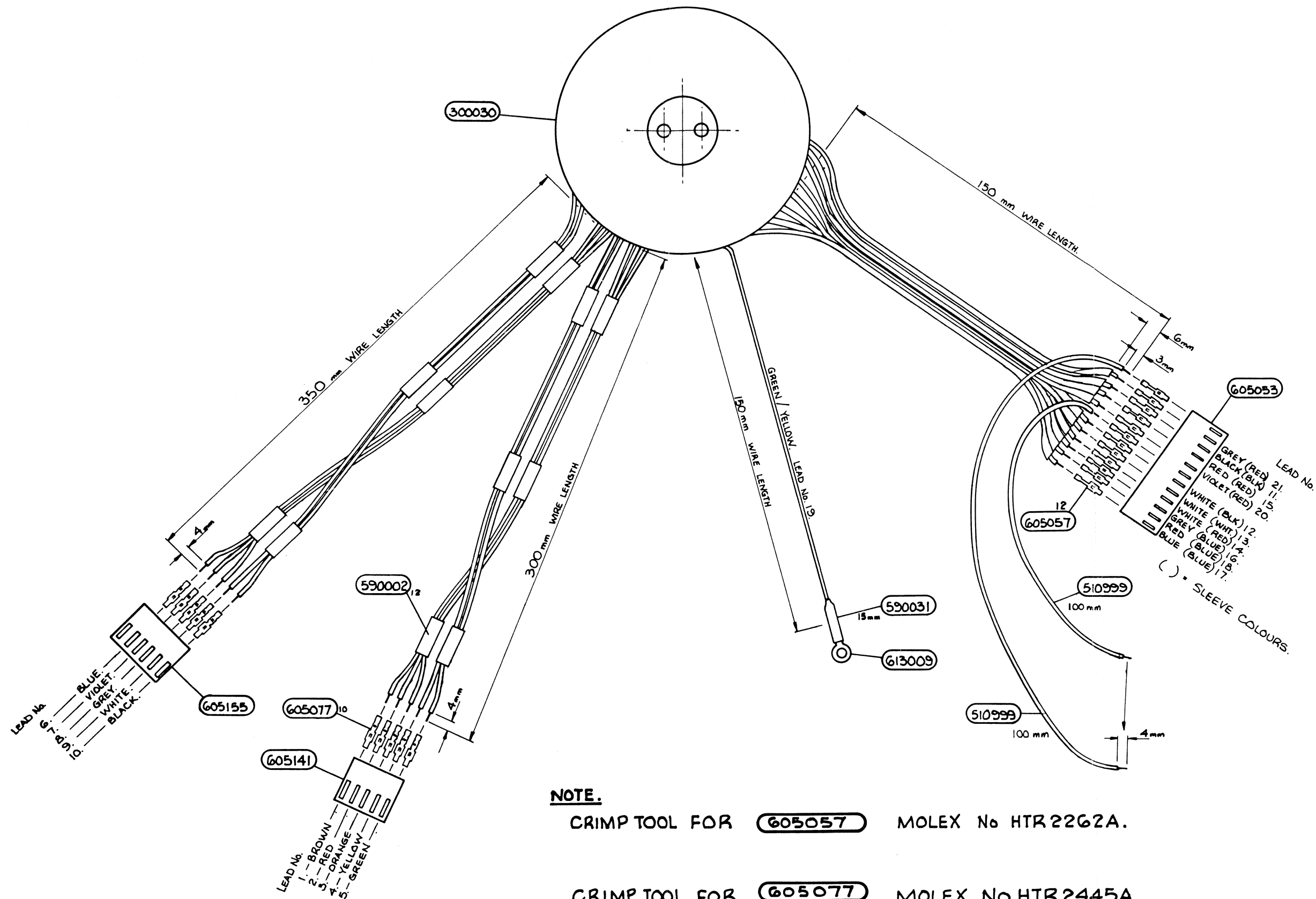
**BOTTOM COVER ASSEMBLY**  
Drawing No. 480748 Sheet 1

1281  
**datron**  
WAVETEK  
© Datron Instruments 1989

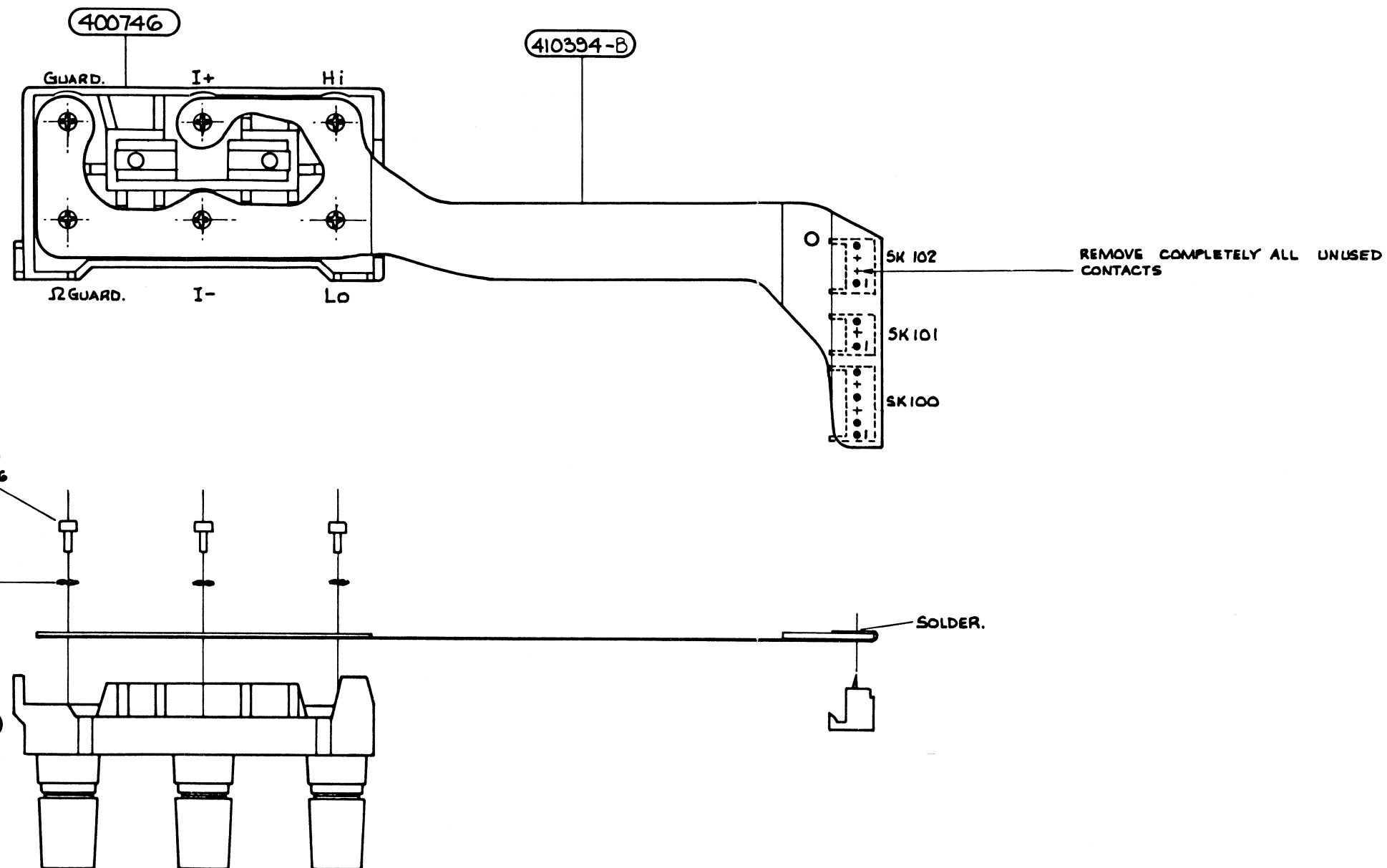




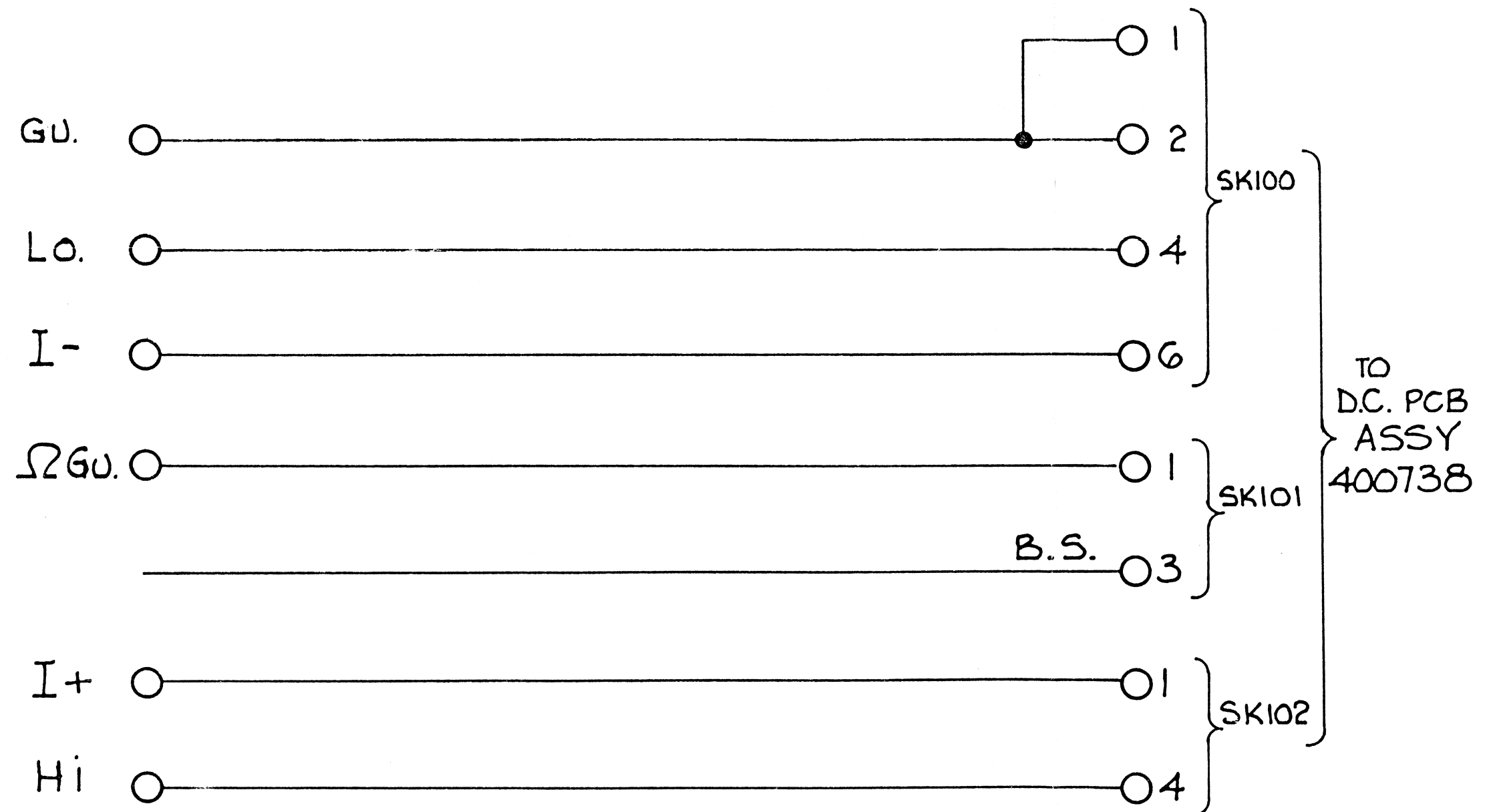
CRIMP TOOL FOR 605077 MOLEX HTR 2445A







FRONT  
PANEL  
TERMINALS.



| DRAWING No. |  | CHK'D | DATE      | ECO | REVISION | ISSUE          |
|-------------|--|-------|-----------|-----|----------|----------------|
| 400734      |  |       | 15.1.88   |     | 1.0      | 2674 15.1.88   |
| D.I. W/M    |  |       | 27.1.88   |     | 1.1      | 2771 11FEB88   |
|             |  |       | 25.FEB.88 |     | 1.2      | 2783 25.FEB.88 |
|             |  |       | 2.MAR.88  |     | 1.3      | 2793 2.MAR.88  |
|             |  |       | 29.FR.88  |     | 1.3      | 2853 29.FR.88  |
|             |  |       | 19.MAY.88 |     | 1.4      | 2895 19.MAY.88 |
|             |  |       | 24.MAY.88 |     | 1.4      | 2884 24.MAY.88 |
|             |  |       | 26.MAY.88 |     | 1.4      | 2904 26.MAY.88 |
|             |  |       | 27.MAY.88 |     | 1.5      | 2913 27.MAY.88 |
|             |  |       | 13.JUN.88 |     | 1.6      | 2912 13.JUN.88 |
|             |  |       | 24.JUN.88 |     | 1.7      | 2952 24.JUN.88 |
|             |  |       | 29.JUL.88 |     | 1.8      | 2968 29.JUL.88 |
|             |  |       | 11.AUG.88 |     | 1.9      | 2957 11.AUG.88 |

| DESCRIPTION   | DRAWING NUMBER | SHEET NUMBER | ISSUE - REVISION |
|---------------|----------------|--------------|------------------|
| COMP. LAYOUT. | 480734         | 1            | 1.0              |
| COMP. LAYOUT. | 480734         | 2            | 1.1              |
| COMP. LAYOUT. | 480734         | 3            | 1.0              |
| COMP. LAYOUT. | 480734         | 4            | 1.0              |
| SCHEMATIC     | 430734         | 1            | 1.1              |
| L.P.          | 400734         | ALL          | 1.4              |
| CAL           | 460734/FC      | ALL          | 1.0              |
| PROCEDURE     | 470734/FC      | ALL          | 1.0              |
| CAL           | 460734/IT      | ALL          | 1.0              |
| TICK LIST     | 460734/IT      | ALL          | 1.0              |
| TEST          | 460734/IT      | ALL          | 1.0              |
| PROCEDURE     | SECT B         | ALL          | 1.0              |
| "             | SECT C         | ALL          | 1.0              |
| TICK LIST     | 470734/IT      | ALL          | 1.0              |
| "             | SECT B         | ALL          | 1.0              |
| "             | SECT C         | ALL          | 1.0              |

|       |                                                                          |                                                     |                                  |                                    |                                  |                                     |                                       |
|-------|--------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------|------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|
| NOTES | <input type="checkbox"/> DENOTES NO CHANGE TO DOCS AT ISSUE LEVEL CHANGE | <b>datron</b><br>ELECTRONICS LTD<br>NORWICH ENGLAND | DRN<br>B.S.J.<br>DATE<br>22.7.87 | CHD<br>B.S.J.<br>DATE<br>14.AUG.87 | APPD<br>Kef<br>DATE<br>20 JAN 88 | TITLE<br>1281<br>FINISHED ASSEMBLY. | DRAWING No.<br>400734<br>SHEET 1 OF 4 |
|-------|--------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------|------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|

| DESIGNATOR | DATRON PART No. | DESCRIPTION                            | PRINCIPAL MANUFACTURER | MANUFACTURER'S PART No. | No. USED Per Assy. |
|------------|-----------------|----------------------------------------|------------------------|-------------------------|--------------------|
| 400734     |                 |                                        |                        |                         |                    |
|            | 400770-1        | TERMINAL ASSEMBLY.                     |                        |                         | 1                  |
|            | 611088          | M2.5x6mm POZI-CSK. HD                  | STEEL ZN. PLATE        |                         | 2                  |
|            | 612046          | M3 NYLON PILLAR x16mm+SL               | G18 PROJECTS CO        | TYPE B M3X16mm+SL0T     | 4                  |
|            | 613029          | M3 WAVY WASHER SS.                     |                        |                         | 7                  |
|            | 611016          | M3x8mm POZI-PAN HD SCREW.              |                        |                         | 5                  |
|            | 611011          | M2.5x6mm POZI-PAN HD SCREW. ZN. PLATE. |                        |                         | 4                  |
|            | 400745-1        | BEZEL ASSEMBLY.                        |                        |                         | 1                  |
|            | 611091          | M3x8mm SKT. GRUB SCREW                 | ZN. PLATE.             |                         | 4                  |
|            | 450495-1        | HANDLE LOCKING ROD.                    |                        |                         | 2                  |
|            | 450614-1        | DVM HANDLE EXTRUSION.                  |                        |                         | 2                  |
|            | 420074-1        | MOD RECORD LABEL                       |                        |                         | 1                  |
|            | 420101-1        | MODEL LABEL                            |                        |                         | 1                  |
|            | 440153-1        | 1281 RACK MTG. KIT                     |                        |                         | A/R                |
|            | 440152-1        | 1281 50WAY 'D' CONNECTOR KIT.          |                        |                         | 2                  |
|            | 450557-1        | REAR CORNER BLOCK.                     |                        |                         | 2                  |
|            | 611005          | M3x12mm POZI-PAN HD. SCREW.            |                        |                         | 2                  |
|            | 450620-1        | 1281 INSTRUMENT NUMBER BADGE           |                        |                         | 1                  |
|            | 400747-1        | TOP COVER ASSEMBLY.                    |                        |                         | 1                  |
|            | 400748-1        | BOTTOM COVER ASSEMBLY.                 |                        |                         | 1                  |
|            | 450535-1        | PACKING BOX.                           |                        |                         | 1                  |
|            | 630224          | ANTI-STATIC BAG PINK-4006              | OK. INDUSTRIES         | 445x571x610.            | 1                  |

|       |                              |                                                                                                   |                                                                                                                        |
|-------|------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| NOTES | 1st SHEET 7 FOR LATEST ISSUE | DATE<br>22. JULY. 87.<br>DRAWN<br>B.S. JACKSON<br>CHECKED<br>APPROVED<br>Kef<br>DATE<br>20 JAN 88 | <b>datron</b><br>ELECTRONICS LTD<br>TITLE<br>1281<br>FINISHED ASSEMBLY.<br>DRAWING NUMBER<br>400734<br>SHEET<br>2 OF 4 |
|-------|------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|

| 400734     |                    |                                        |                           |                            |                       |
|------------|--------------------|----------------------------------------|---------------------------|----------------------------|-----------------------|
| DESIGNATOR | DATRON<br>PART No. | DESCRIPTION                            | PRINCIPAL<br>MANUFACTURER | MANUFACTURER'S<br>PART No. | No. USED<br>Per Assy. |
|            | 850090-1           | 1281 USER HANDBOOK.                    |                           |                            | 1                     |
|            | 850091-1           | 1281 CAL & SERV. HANDBOOK. VOLUME 1.   |                           |                            | 1                     |
|            | 850092-1           | 1281 CAL & SERV. HANDBOOK. VOLUME 2.   |                           |                            | 1                     |
|            | 850909-1           | 1281 QUICK REFERENCE MANUAL.           |                           |                            | 1                     |
|            | 920012             | MAINS LEAD CONN                        | BELLING LEE               | L1949                      | 1                     |
|            | 920203             | FUSE 630mA 250V(T) 20mm                | BESWICK                   | S506                       | 1                     |
|            | 450533-1           | HANDLE MAGNET                          |                           |                            | 4                     |
|            | 450532-1           | CATCH PLATE                            |                           |                            | 4                     |
|            | 450590-1           | CATCH PLATE SPACER                     | RUBBER-ASTIC              |                            | 4                     |
|            | 630255             | TAPE SELFADHESIVE DOUBLE SIDED. 3M     |                           | Y9469 x 1/2" WIDE.         | A/R.                  |
|            | 900038             | CYANOACRYLATE ADHESIVE. PERMABOND      |                           | C4                         | A/R.                  |
|            | 920204             | FUSE 1.25A 250V(T) 20mm                | BESWICK                   | S506                       | 1                     |
|            | 920071             | FUSE 1.6A 250V QUI-B                   | BESWICK                   | S501                       | 1                     |
|            | 900016             | CLEANING FLUID                         | RS.                       | 556-654                    | A/R.                  |
|            | 630284             | HEX KEY 1.5mm A/F                      |                           |                            | 1                     |
|            | 611007             | M3x6mm POZI-CSK HD SCREW. ZN.PL.       |                           |                            | 4                     |
|            | 400741-2           | 1281 AC OPTION PCB ASSY.               |                           |                            | A/R                   |
|            | 400742-1           | 1281 OHMS OPTION PCB ASSY.             |                           |                            | A/R                   |
|            | 400743-2           | 1281 CURRENT OPTION PCB ASSY.          |                           |                            | A/R                   |
|            | 400736-2           | 1281 INSTRUMENT ASSY.                  |                           |                            | 1                     |
|            | 613051             | M2.5 SPRING WASHER SQ SECT STL. ZN PL. |                           |                            | 8                     |
|            | 900009             | LOCKING COMPOUND                       | LOCTITE                   | 222                        | A/R                   |
|            | 630269             | MINIATURE CABLE CLIP (SELF ADH)        | RICHCO.                   | MWSB                       | 2                     |

NOTES

SEE SHEET 7 FOR LATEST ISSUE

|      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| DES  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ECO  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ENG  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CHKD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

DATE  
22. JULY. 87.

DRAWN BY  
B.S. JACKSON

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DATE  
20 Jan 88

TITLE  
1281  
FINISHED ASSEMBLY

DRAWING NUMBER  
400734

SHEET  
3 OF 4

[illegible]



400737.

NOTES.

SEE SHEET 1 FOR LATEST ISSUE

[illegible]

| DESIGNATOR | DATRON<br>PART No. | DESCRIPTION                         | PRINCIPAL<br>MANUFACTURER | MANUFACTURER'S<br>PART No. | No. USED<br>Per Assy. |
|------------|--------------------|-------------------------------------|---------------------------|----------------------------|-----------------------|
|            | G11015             | M3x8mm PbzI-CSK SCREW               | ZN. PL.                   |                            | 10                    |
|            | 400749-3           | 1281 MAINS TX ASSY.                 |                           |                            | 1                     |
|            | G13005             | M3 SHAKEPROOF WASHER                |                           |                            | 7                     |
|            | G11098             | M3x8mm SKT.CAP HD. SCREW            | ZN PL.                    |                            | 2                     |
|            | G15002             | M3 FULL NUT.                        |                           |                            | 7                     |
|            | 400184-2           | EARTH BRAID ASSY.                   |                           |                            | 1                     |
|            | G05015             | MAINS I/P SKT /FILTER               | BULGIN                    | P5620/3A                   | 1                     |
|            | 590012             | MAINS FILTER SHROUD.                | BELLING LEE               | L1867                      | 1                     |
|            | 510111             | 7/0.2 PVC INS. BROWN WIRE.          |                           |                            | A/R                   |
|            | 920082             | FUSE HOLDER 20mm PANEL              | BELLING LEE               | L2002                      | 1                     |
|            | 920203             | FUSE G30mA 250V(T) 20mm             | BESWICK                   | S506                       | 1                     |
|            | 590030             | HEATSHRINK SLEEVE POLYOLEFIN Ø 18 . | HELLERMANN                | SFM18-GBK.                 | 45mm.                 |
|            | 400750-3           | LOW VOLTAGE TX ASSY.                |                           |                            | 1                     |
|            | G06028.            | 'D' SCREW LOCK.                     | CANNON                    | D20418-2                   | 4                     |
|            | 590013             | TY-RAP CABLE TIE.                   | RS                        | 543-412                    | 2                     |
|            | G30266             | CABLE TIE ANCHOR PAD.               | RICHCO.                   | FTH 2                      | 2                     |
|            | 400752-1           | REAR I/P CABLE ASSY.                |                           |                            | 2                     |
|            | G13050             | GBA SOLDER TAG TINNED.              |                           |                            | 2                     |
|            | 450580-1           | PLASTIC STANDOFF.                   |                           |                            | 21                    |
|            | G30267             | RIBBON CABLE CLAMP                  | RICHCO.                   | FCC-16-3                   | 1                     |
|            | G11008             | M3x10mm PbzI-CSK STEEL              | ZN PL.                    |                            | 2                     |
|            | G30020             | CABLE CLIP Ø4 mm                    | 3M                        | 708                        | 5                     |

NOTES.

SEE SHEET 1 FOR LATEST ISSUE

|      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| ISS  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ECO  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CHKD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                                |  |                                 |  |
|--------------------------------|--|---------------------------------|--|
| DATE<br><b>30th APR. 87.</b>   |  | <b>datron</b> ELECTRONICS LTD   |  |
| DRAWN<br><b>B.S.JACKSON</b>    |  | TITLE<br><b>1281.</b>           |  |
| CHECKED                        |  | CHASSIS ASSEMBLY.               |  |
| APPROVED<br><i>[Signature]</i> |  | DRAWING NUMBER<br><b>400737</b> |  |
| DATE<br><b>21 DEC 87</b>       |  | SHEET<br><b>3 OF 4</b>          |  |

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400749

NOTES.

SEE SHEET 1 FOR LATEST ISSUE

154

400150

NOTES.

SEE SHEET 2 FOR LATEST ISSUE

124 1154

|                              |  |                  |  |  |
|------------------------------|--|------------------|--|--|
| DRAWING No.<br><b>400752</b> |  | CHKD             |  |  |
| D.I. WM                      |  | DATE             |  |  |
|                              |  | ECO              |  |  |
|                              |  | REVISION         |  |  |
|                              |  | ISSUE            |  |  |
|                              |  | 1.0 2617 30.187  |  |  |
|                              |  | 1.1 2968 25.7.88 |  |  |
|                              |  | 1.2 3010 22.8.88 |  |  |
|                              |  | 1.3 3016 6.9.88  |  |  |

| DESCRIPTION | DRAWING NUMBER | SHEET NUMBER | ISSUE - REVISION |     |
|-------------|----------------|--------------|------------------|-----|
| COMP LAYOUT | 480752         | 1            | 1.0              | 1.1 |
| L.P.        | 400752         | 2            | 1.1              | 1.2 |

NOTES  
☐ DENOTES NO CHANGE TO DOCS AT ISSUE LEVEL CHANGE

**datron**  
INSTRUMENTS  
NORWICH ENGLAND

DRN B.S.J  
DATE 1. APR. 87

CHKD *CR*  
DATE 3. APR. 87

TITLE 1281 REAR INPUT/RATIO CABLE ASSEMBLY.

DRAWING No. **400752**  
SHEET 1 of 2

| DESIGNATOR | DATRON PART No. | DESCRIPTION                   | PRINCIPAL MANUFACTURER | MANUFACTURER'S PART No. | No. USED Per Assy. |
|------------|-----------------|-------------------------------|------------------------|-------------------------|--------------------|
|            | 512999          | 7/0-2 PTFE INSUL. WHITE WIRE. |                        |                         | 0.21M.             |
|            | 560006-3        | 2 CORE PTFE SCREENED CABLE.   |                        | SEE DRG.                | 0.295M.            |
|            | 560008-3        | 4 CORE PTFE SCREENED CABLE.   |                        | SEE DRG.                | 0.295M.            |
|            | 590003          | Ø 6.4 HEATSHRINK SLEEVE.      |                        |                         | A/R.               |
|            | 604081          | 50WAY 'D' PLUG. SHELL         | CANNON                 | DDU50P-FO               | 1                  |
|            | 604082          | 'D' PLUG CONTACT.             | CANNON                 | 330-7633-010.           | 6                  |
|            | 605051          | 4WAY 0.1" HOUSING             | MOLEX                  | 22-01-2045              | 1                  |
|            | 605052          | 8WAY 0.1" HOUSING             | MOLEX                  | 22-01-2085              | 1                  |
|            | 605057          | CRIMP TERMINAL GDPL.          | MOLEX                  | 4809-GL.                | 7                  |
|            | 590075          | SOLDER SLEEVE Ø 4.8           | RAYFAST                | CWT-5                   | 1                  |
|            | 590076          | SOLDER SLEEVE Ø 7.3           | RAYFAST                | CWT-7                   | 2                  |
|            | 920212          | FERRITE BEAD                  | PHILIPS                | FX4022                  | 1                  |

NOTES.  
SEE SHEET 2 FOR LATEST ISSUE

|          |              |
|----------|--------------|
| DATE     | 1st APR 87.  |
| DRAWN    | B.S. JACKSON |
| CHECKED  |              |
| APPROVED |              |
| DATE     |              |

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TITLE 1281 REAR INPUT/RATIO CABLE ASSEMBLY.

DRAWING NUMBER **400752** SHEET 2 of 2

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|                              |  |                   |  |
|------------------------------|--|-------------------|--|
| DRAWING NO.<br><b>400770</b> |  | CHK'D             |  |
| BY WM                        |  | DATE              |  |
|                              |  | ECO               |  |
|                              |  | REVISION          |  |
|                              |  | ISSUE             |  |
|                              |  | 1.0 2718 30/11/87 |  |

| DESCRIPTION   | DRAWING NUMBER | SHEET NUMBER | ISSUE - REVISION |
|---------------|----------------|--------------|------------------|
| COMP. LAYOUT. | 480770         | 1            | 1.0              |
| SCHEMATIC     | 430770         | 1            | 1.0              |
| PCB.          | 410394         | B            |                  |

NOTES  
☐ DENOTES NO CHANGE TO DOCS AT ISSUE LEVEL CHANGE

**datron** DRN **B.S. JACKSON** CHK'D **ELP** TITLE **1281** DRAWING NO. **400770**  
 NORWICH ENGLAND DATE **30.7.87** DATE **5th AUG 87** **30 DEC 87** **TERMINAL ASSEMBLY** SHEET **1** OF **2**

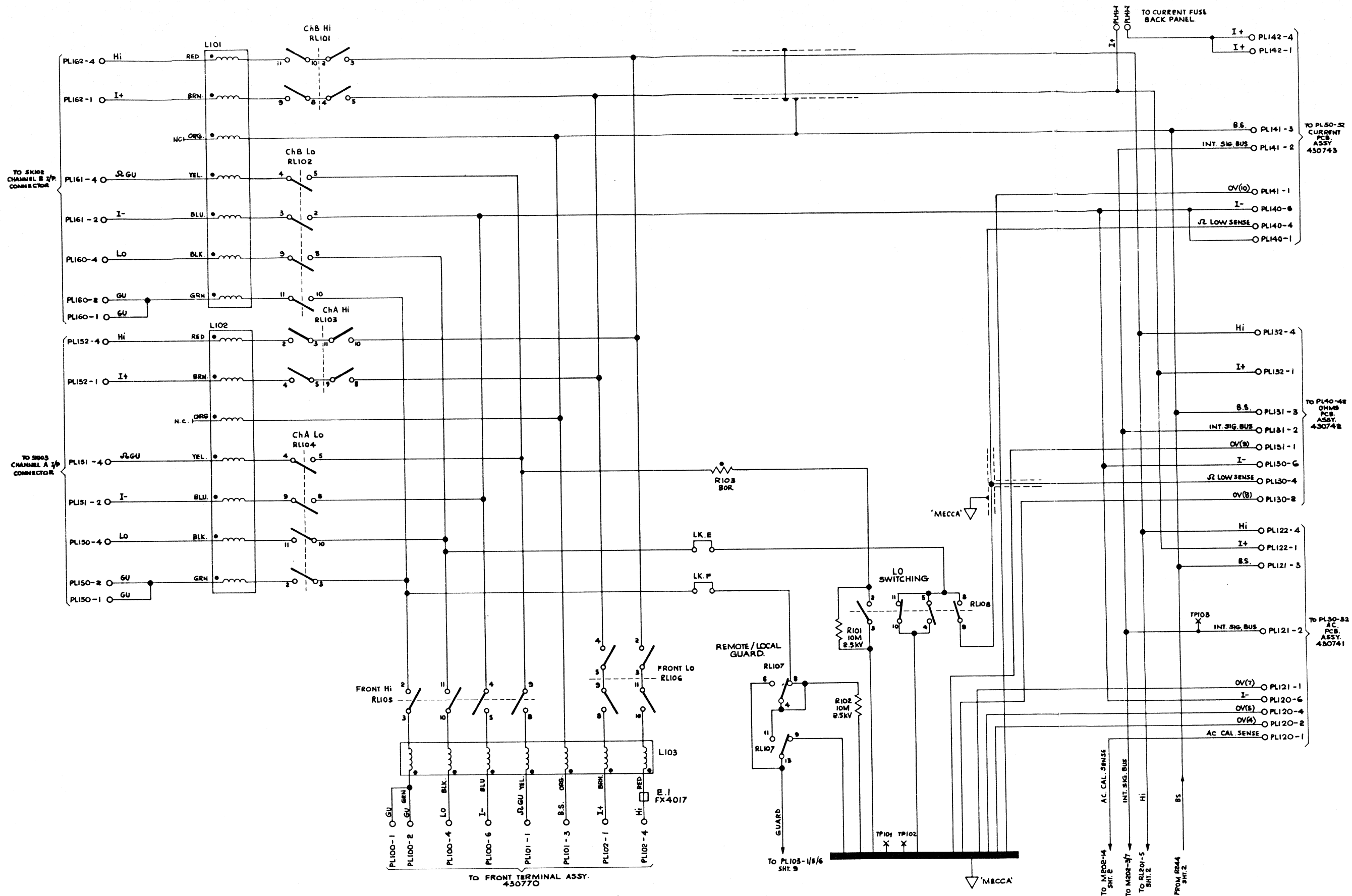
| DESIGNATOR | DATRON PART No. | DESCRIPTION               | PRINCIPAL MANUFACTURER | MANUFACTURER'S PART No. | No. USED Per Assy. |
|------------|-----------------|---------------------------|------------------------|-------------------------|--------------------|
| 400770     | 400746-1        | 1288 TERMINAL MECH ASSY.  |                        |                         | 1                  |
|            | 410394-B        | FRONT INPUT FLEXIBLE PCB. |                        |                         | 1                  |
|            | 611097          | M2X6mm POZI-PAN. STEEL.   | BRIGHT ZINC PLATE.     |                         | 6                  |
|            | 613043          | M2 WAVEY WASHER           |                        |                         | 6                  |
|            | 900016          | CLEANING FLUID            | RS.                    | 556-654                 | A/R                |
| SK100      | 605157          | 6WAY 0.1" PCB SOCKET.     | MOLEX                  | 22-18-2063              | 1                  |
| SK101      | 605156          | 3WAY 0.1" PCB SOCKET.     | MOLEX                  | 22-18-2033              | 1                  |
| SK102      | 605158          | 4WAY 0.1" PCB SOCKET.     | MOLEX                  | 22-18-2043              | 1                  |

NOTES  
 SEE SHEET 1 FOR LATEST ISSUE

|          |              |
|----------|--------------|
| DATE     | 30 JULY 87   |
| DRN      | B.S. JACKSON |
| CHECKED  |              |
| APPROVED |              |
| DATE     |              |

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 TITLE **1281**  
**TERMINAL ASSEMBLY**  
 DRAWING NUMBER **400770** SHEET **2** OF **2**



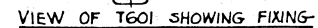


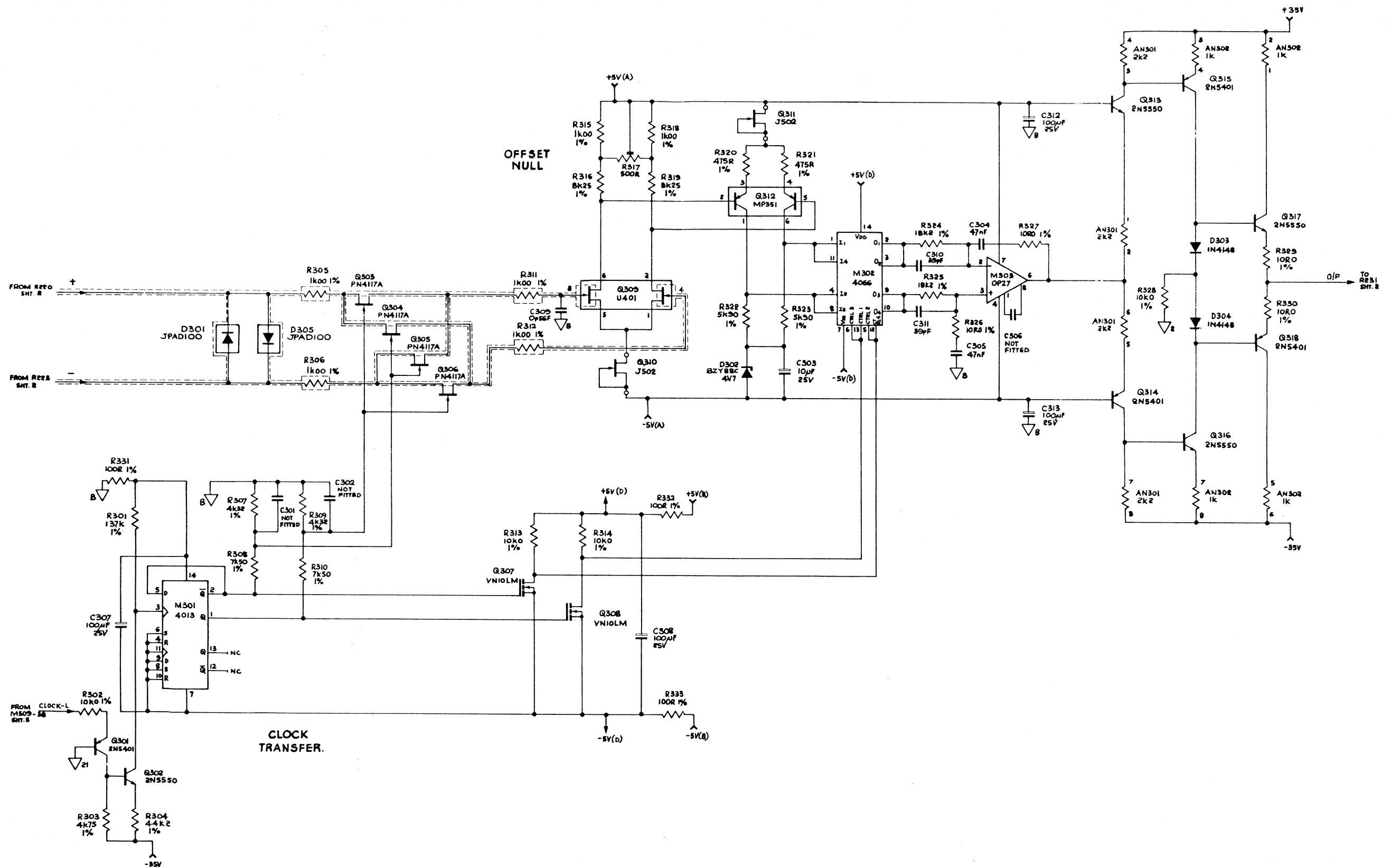












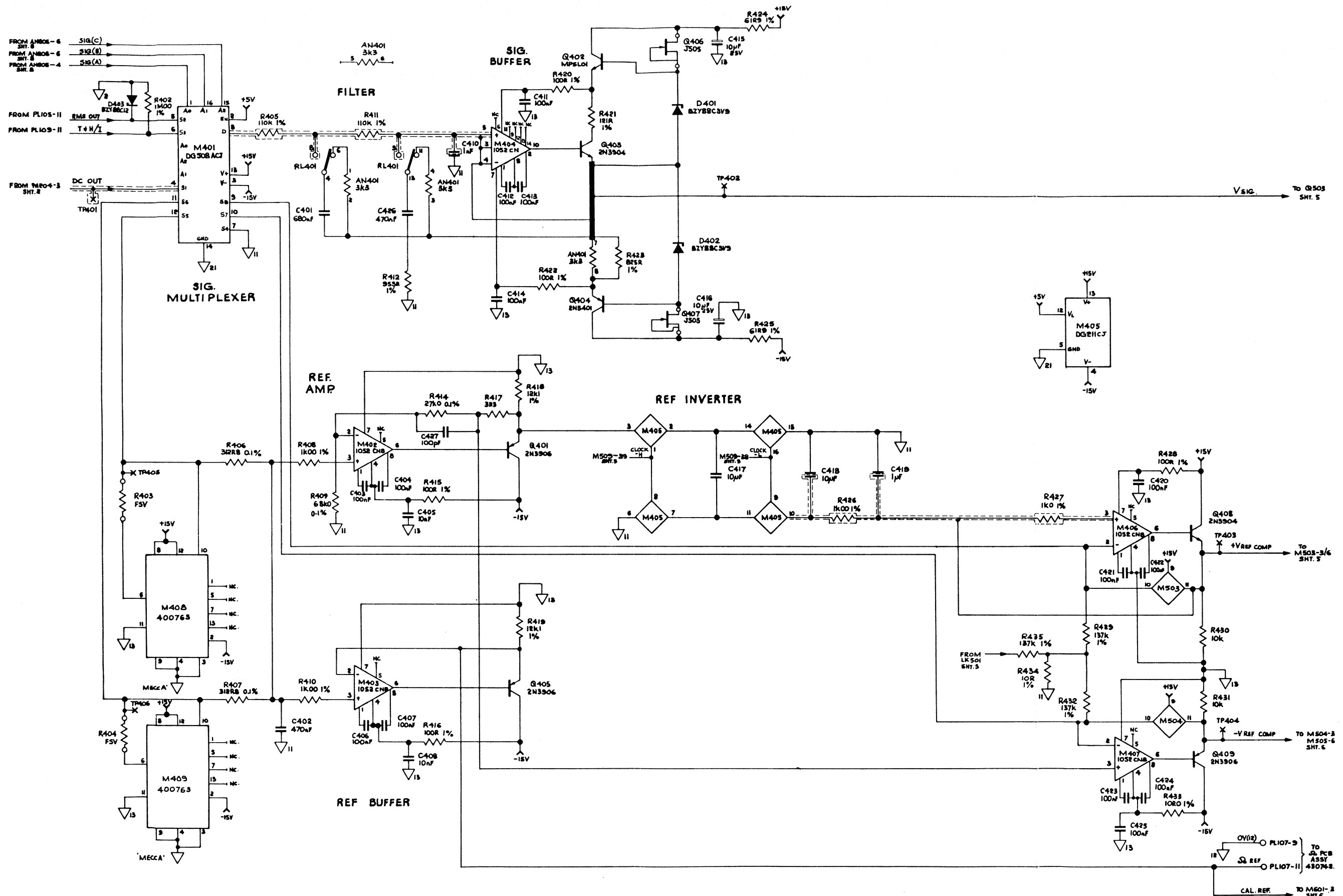
# D.C. ASSEMBLY

D.C. Preamplifier

Drawing No. 430738

Sheet 3 of 9





# D.C. ASSEMBLY

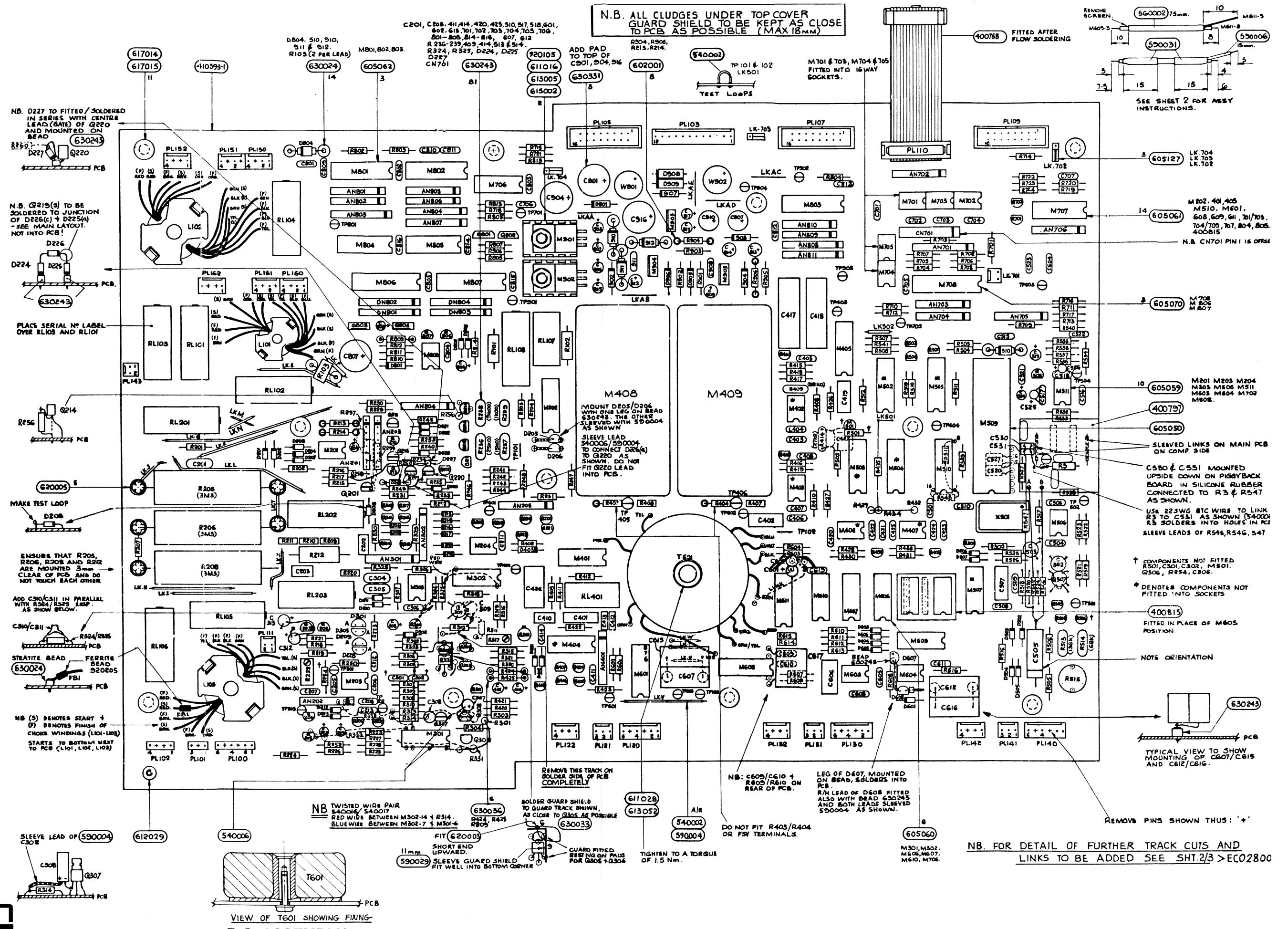
References and Signal Switching

Drawing No. 430738

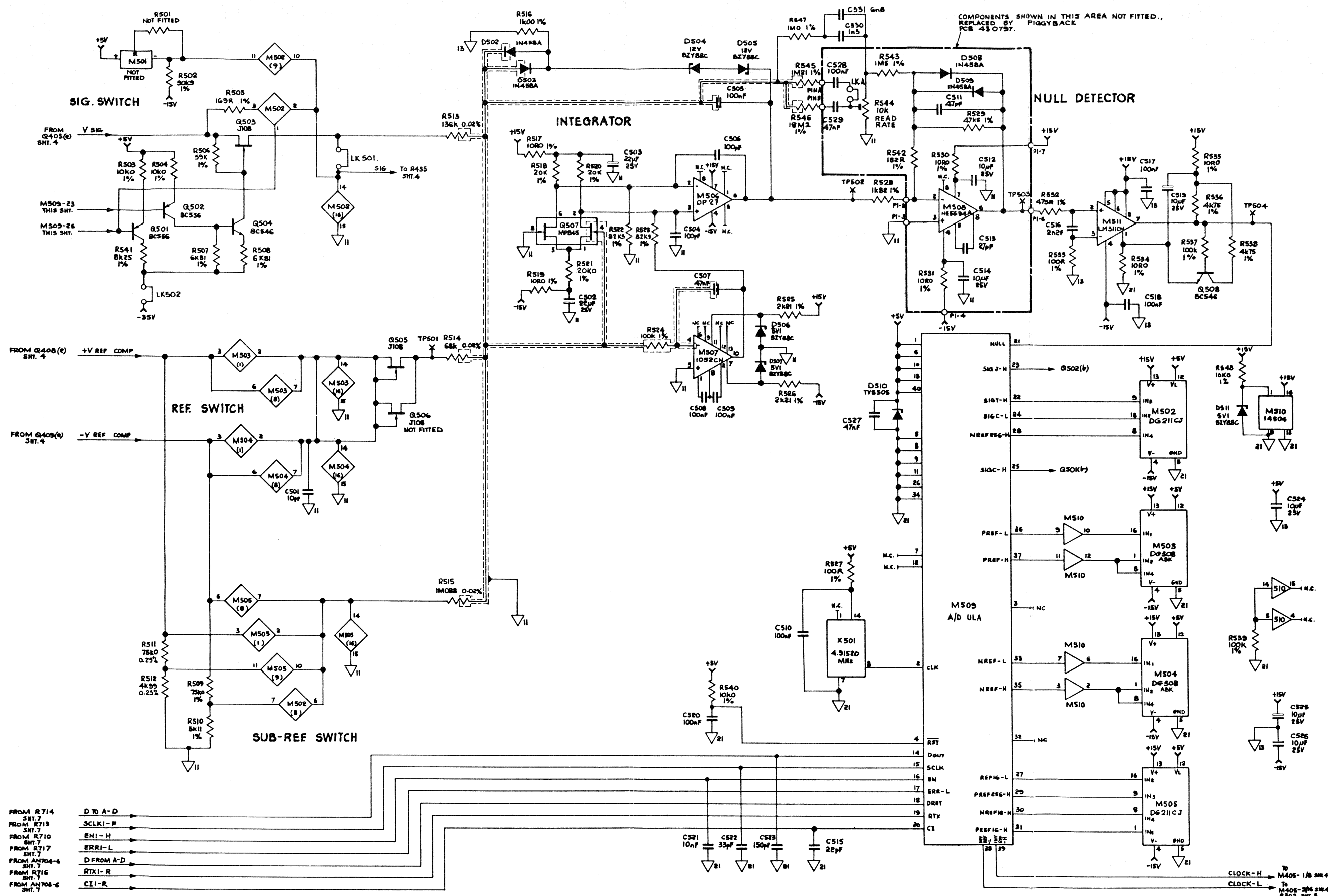
Sheet 4 of 9

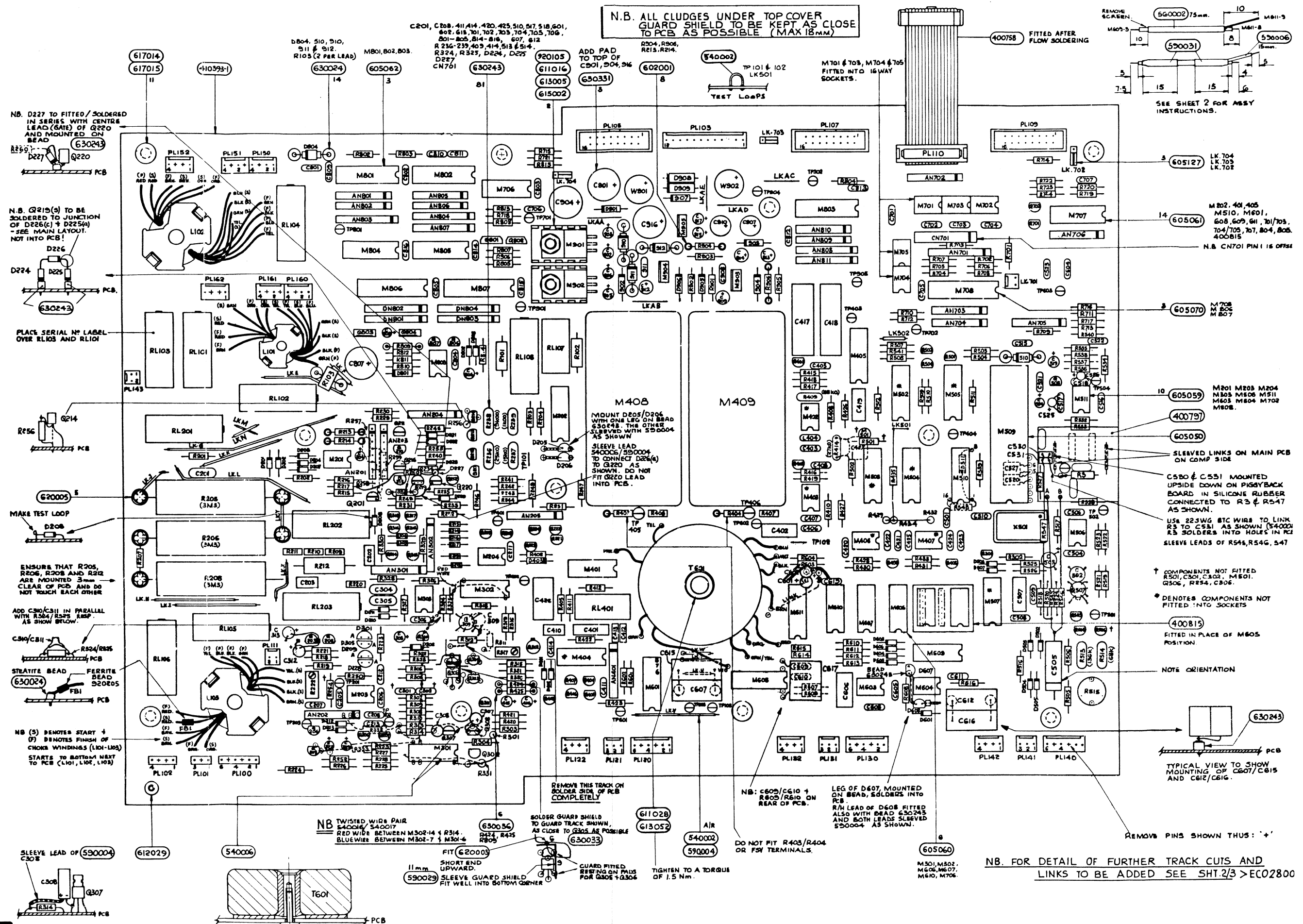
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datron  
WAVETEK

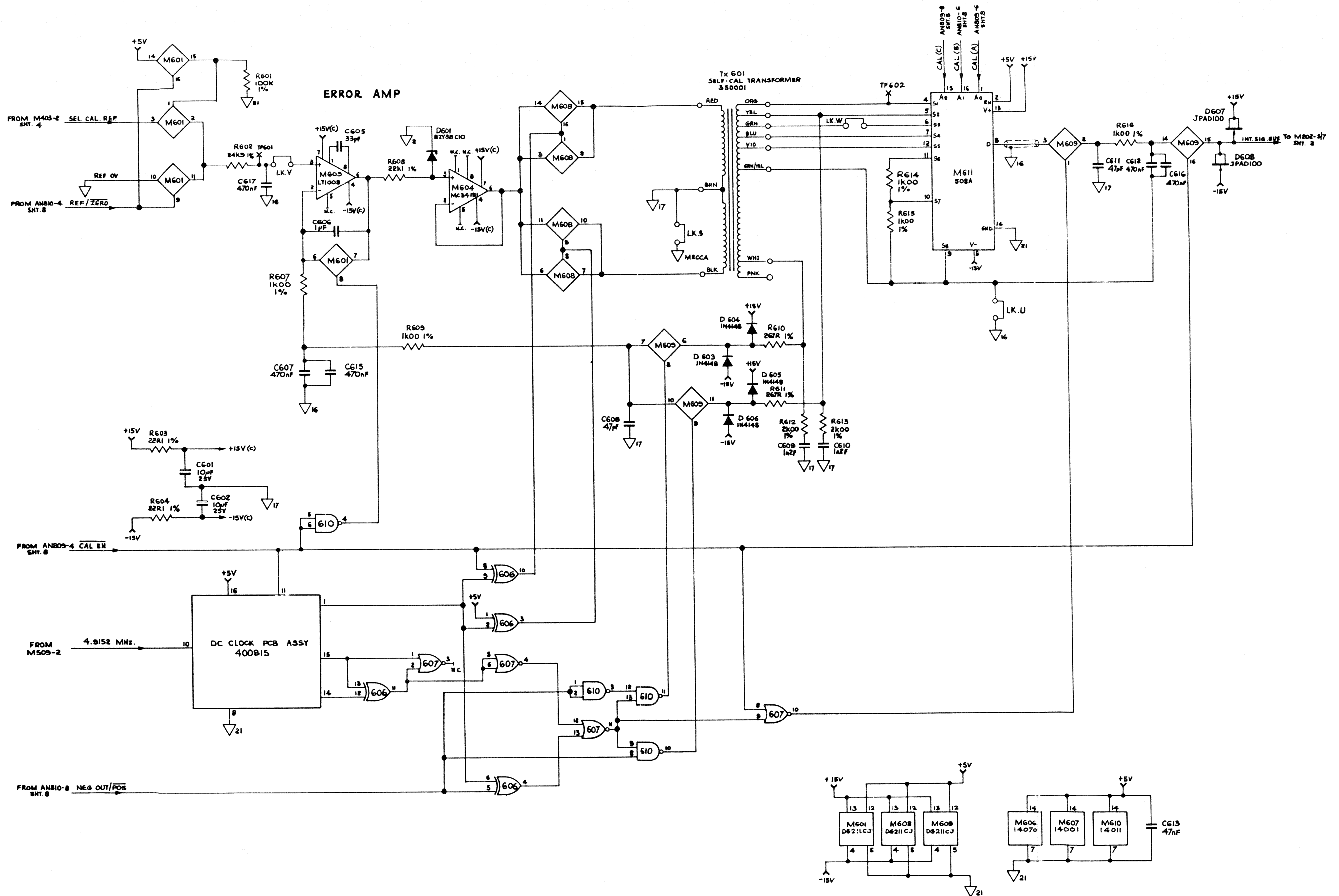
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D.C. ASSEMBLY  
Selfcal Multiplier  
Drawing No. 430738

Sheet 6 of 9

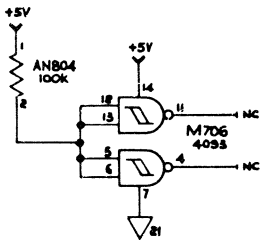
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datron  
WAVETEK

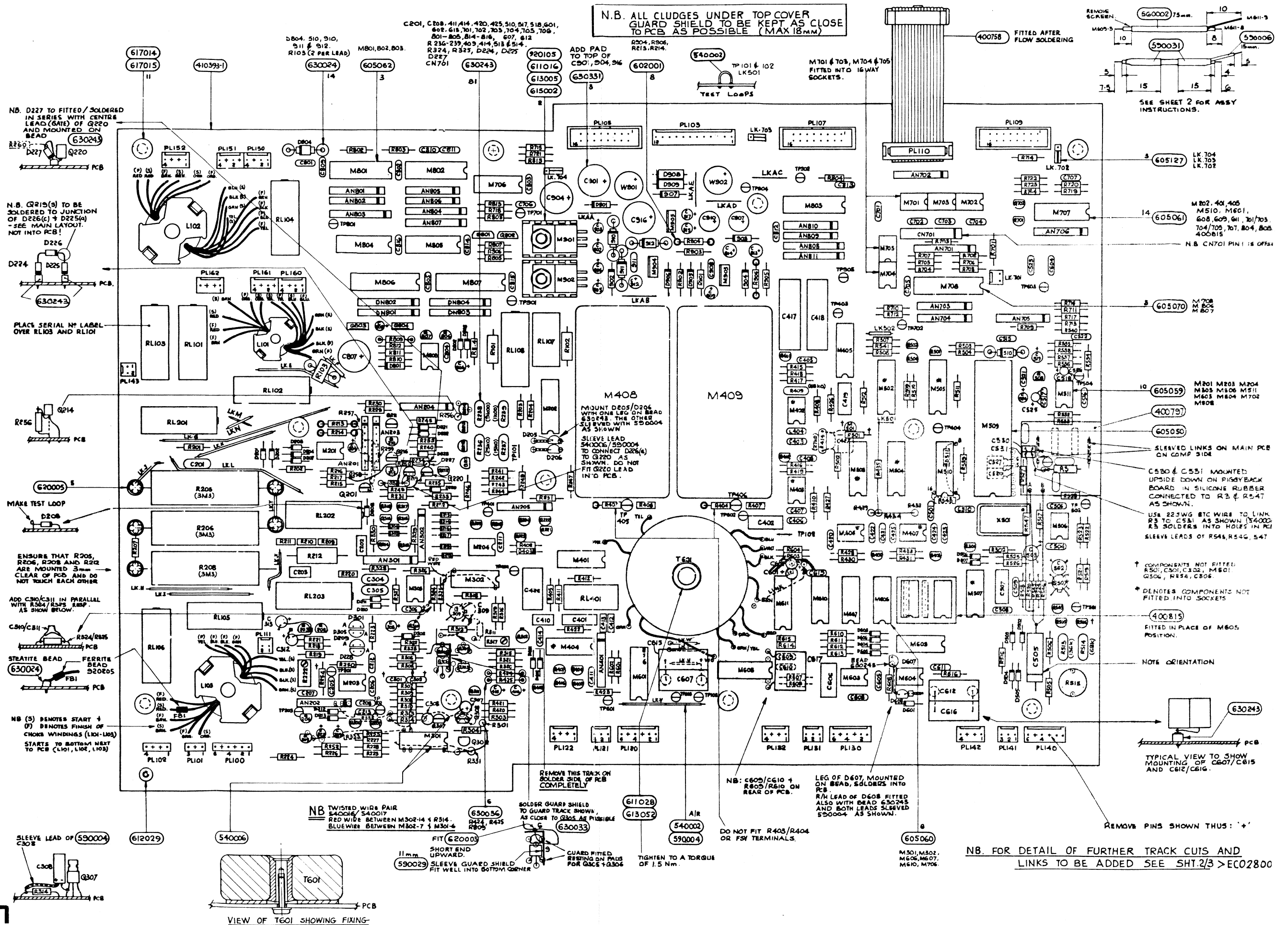
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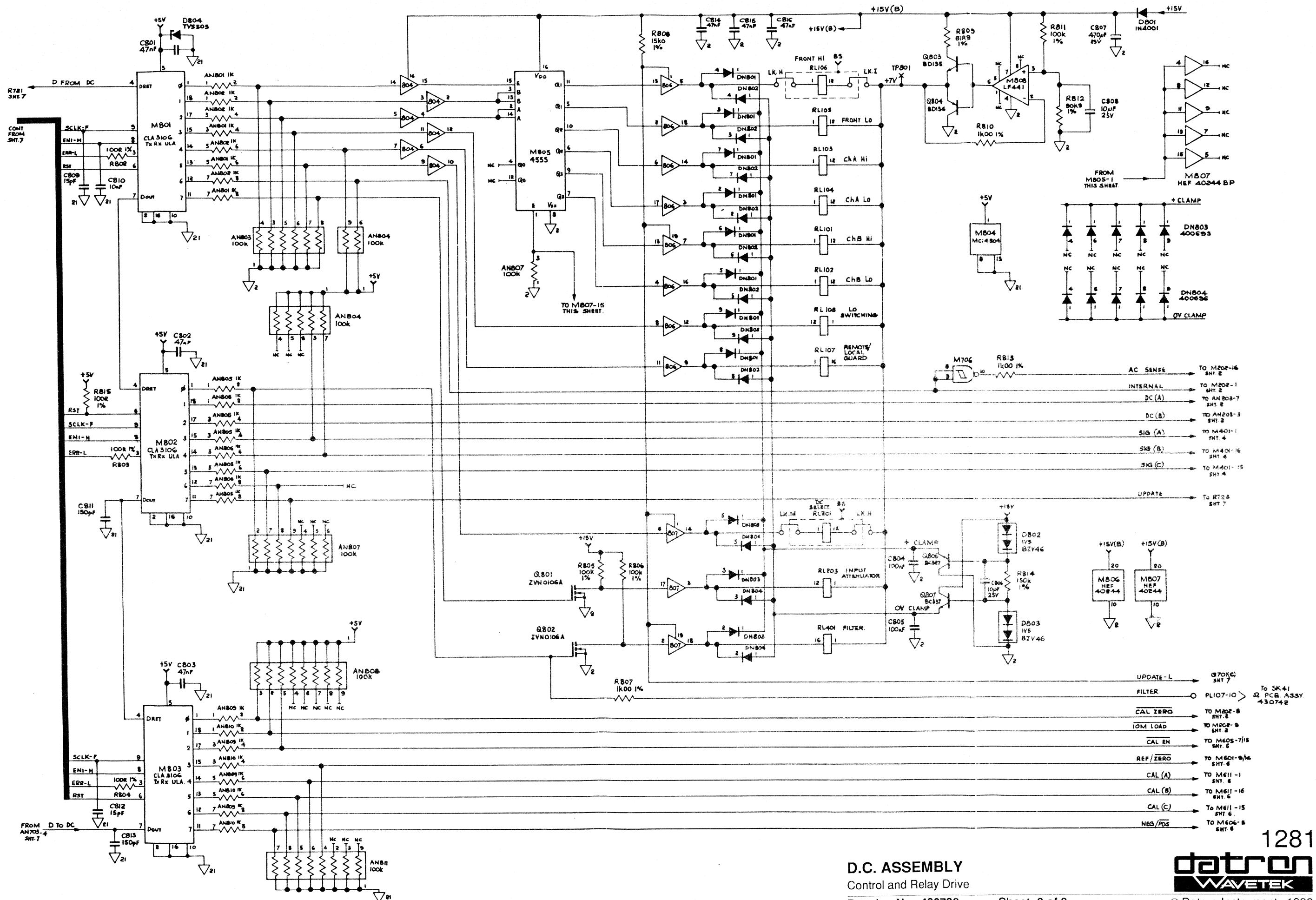
11.2-6











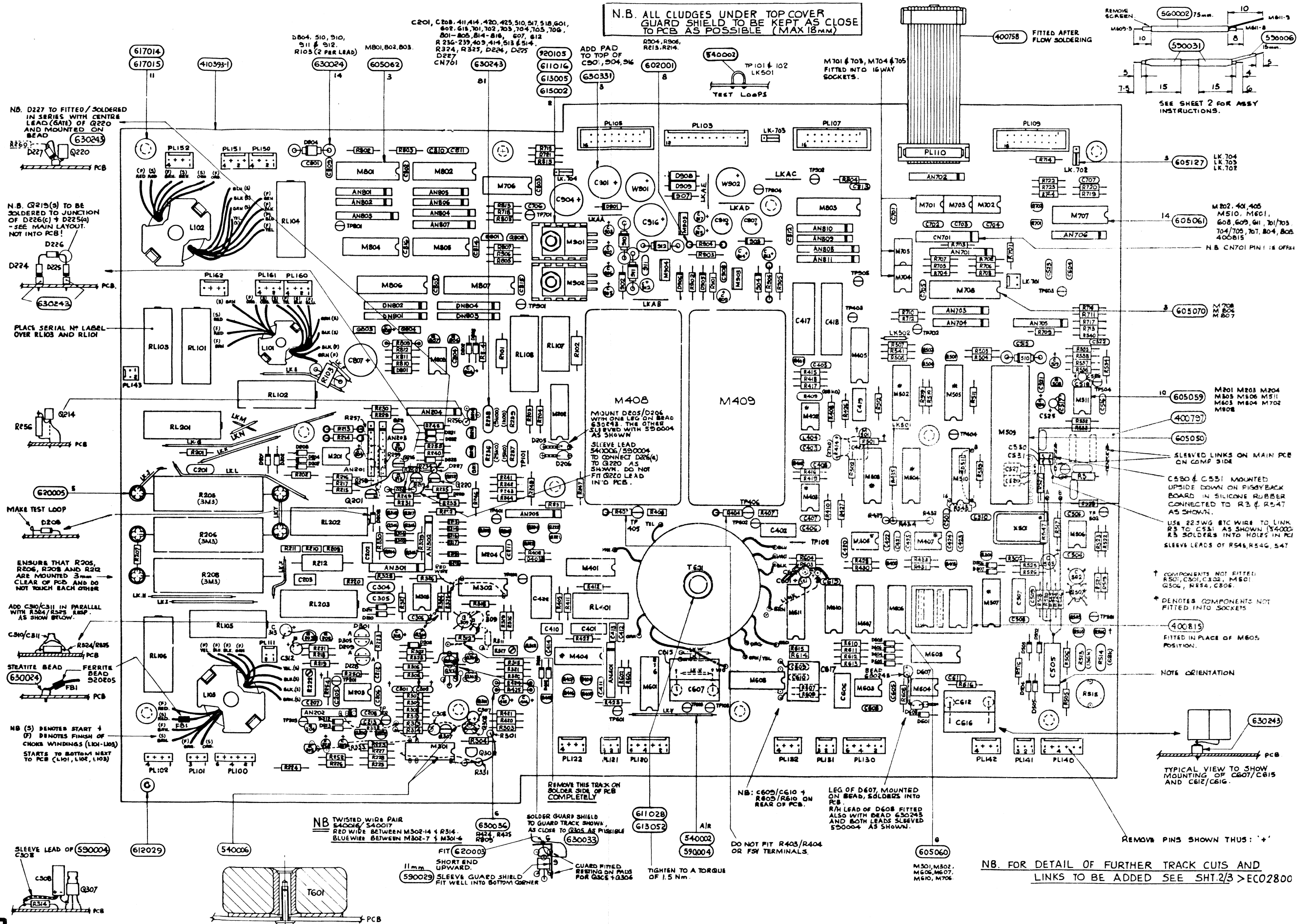
D.C. ASSEMBLY  
Control and Relay Drive  
Drawing No. 430738

Sheet 8 of 9

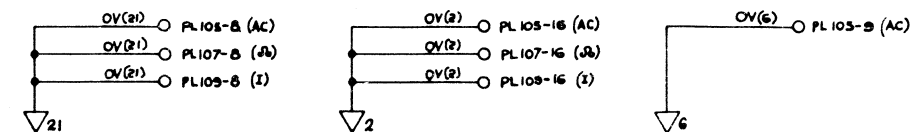
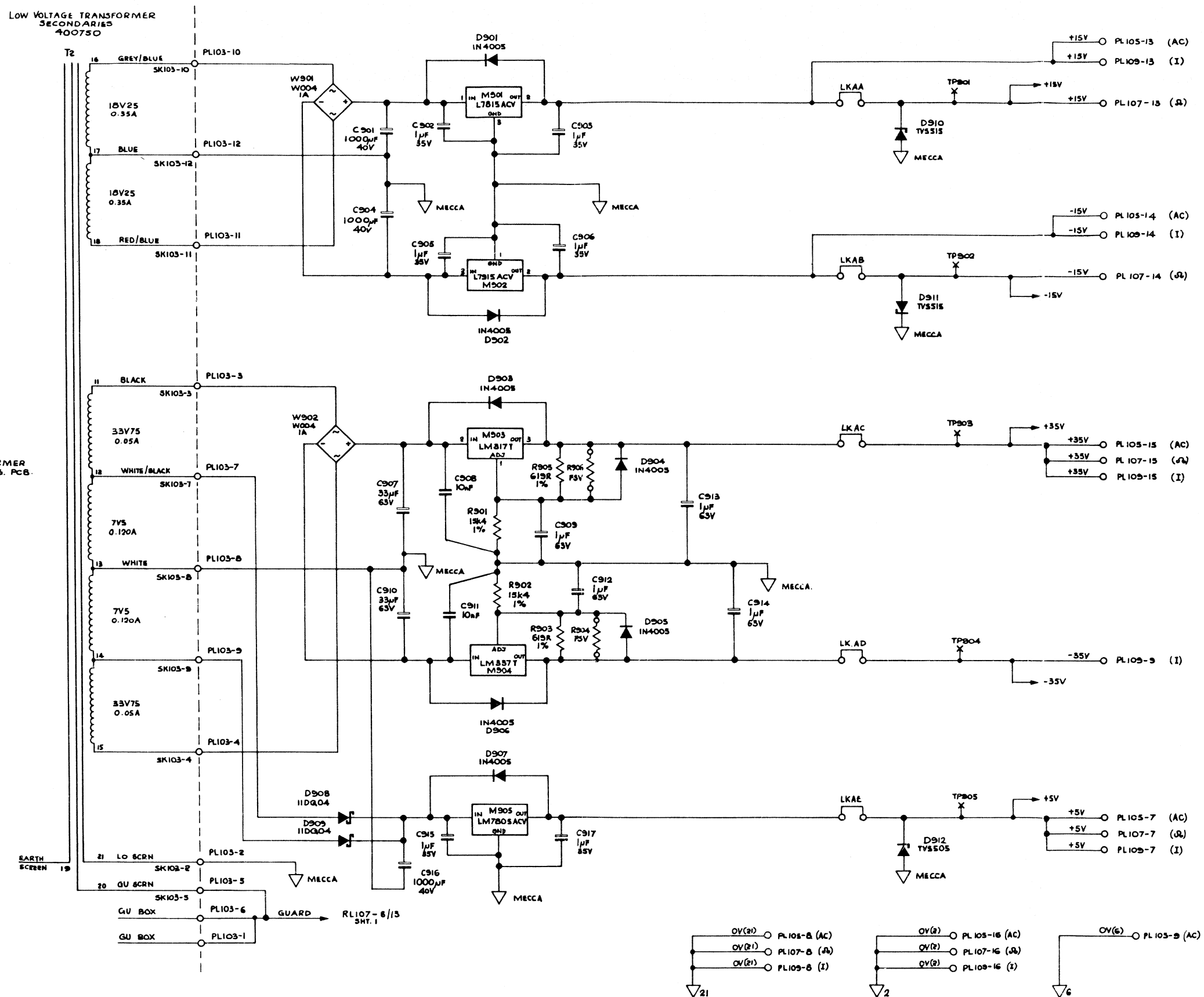
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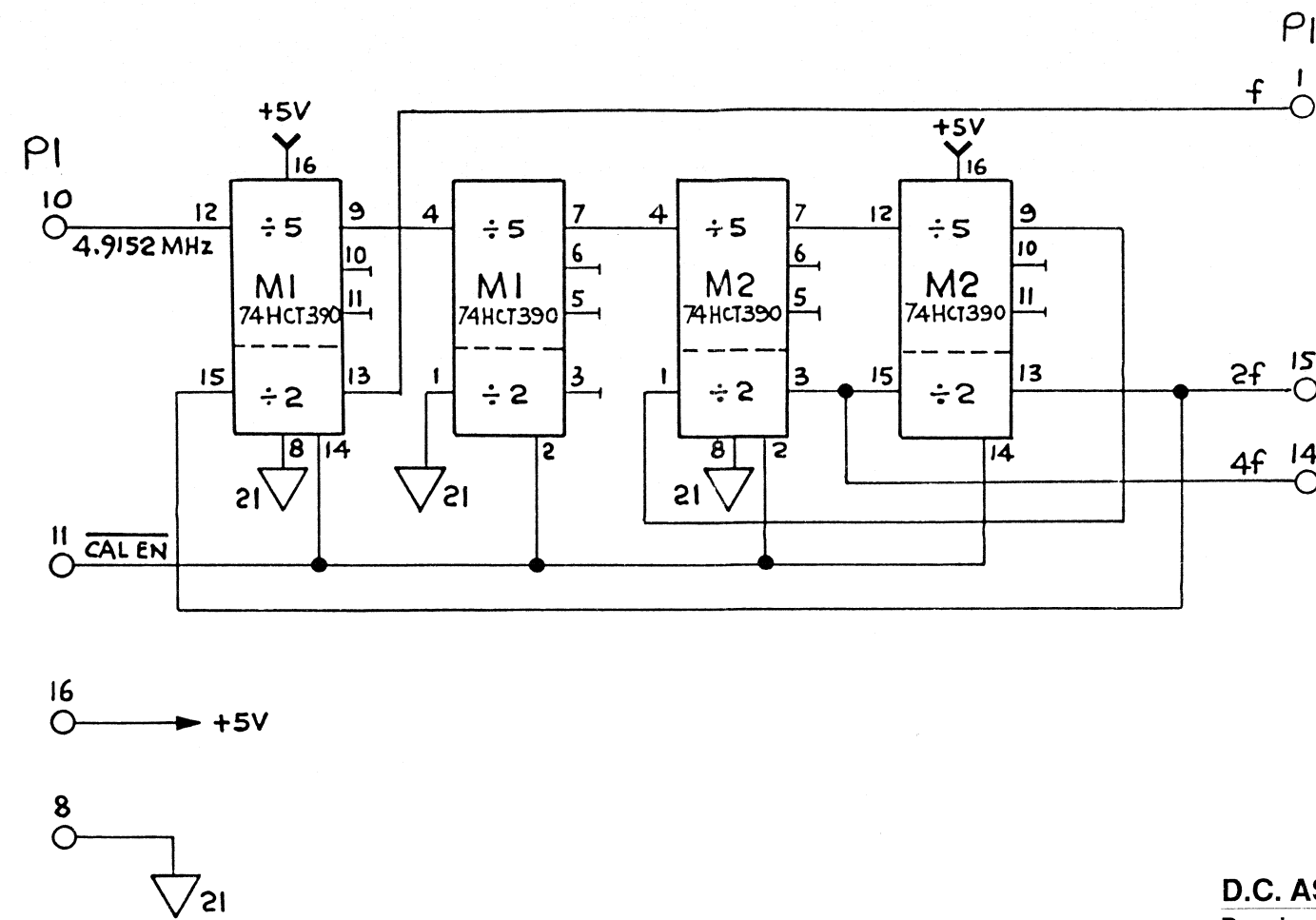
FROM L.V. TRANSFORMER  
PRIMARYS SEE DIG. PCB.  
430740.



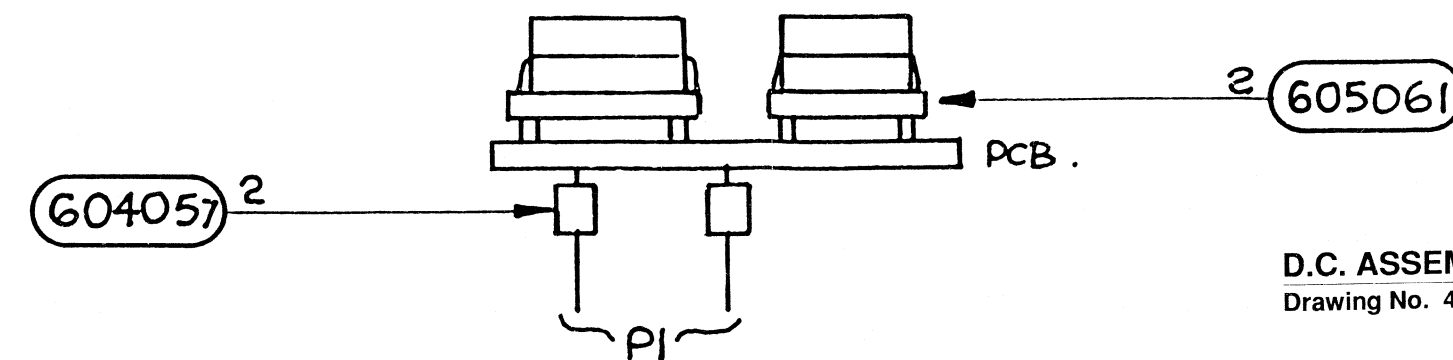
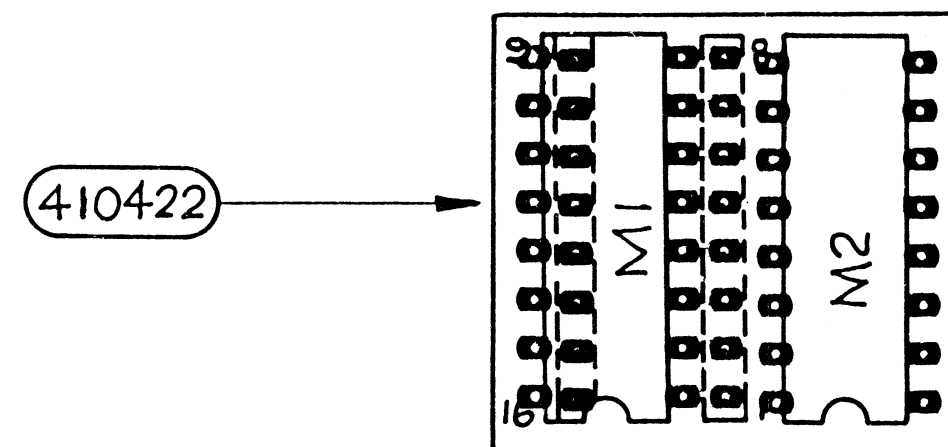
**D.C. ASSEMBLY**  
In - Guard Power Supplies  
Drawing No. 430738

Sheet 9 of 9





**D.C. ASSEMBLY : CLOCK BOARD**  
 Drawing No. 430815 Sheet 1



**D.C. ASSEMBLY : CLOCK BOARD**  
 Drawing No. 480815 Sheet 1



|                           |           |                |                                                                          |                  |                                                                                    |          |                                      |
|---------------------------|-----------|----------------|--------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|----------|--------------------------------------|
| DRAWING NO<br>400738      |           | CHK'D          | DATE                                                                     |                  | ECO                                                                                | REVISION | ISSUE                                |
| DI WM                     |           |                |                                                                          |                  |                                                                                    |          |                                      |
| DESCRIPTION               |           | DRAWING NUMBER | SHEET NUMBER                                                             | ISSUE - REVISION |                                                                                    |          |                                      |
| LAYOUT                    | 480738    | 1              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| COMP LAYOUT               | 480738    | 2              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| SCHEMATIC                 | 430738    | 1              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| "                         | "         | 2              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| "                         | "         | 3              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| "                         | "         | 4              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| "                         | "         | 5              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| "                         | "         | 6              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| "                         | "         | 7              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| "                         | "         | 8              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| "                         | "         | 9              | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| FUNCTIONAL TEST PROCEDURE | 460738/FT | SECT 1         | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| TICK LIST                 | 470738/FT | ALL            | 1.0                                                                      | 1.1              | 1.2                                                                                | 1.3      | 1.4                                  |
| PARTS LISTS               | 400738    | ALL            |                                                                          |                  |                                                                                    |          |                                      |
| PCB                       | 410393    | -              | B                                                                        |                  |                                                                                    |          |                                      |
| NOTES                     |           |                | <input type="checkbox"/> DENOTES NO CHANGE TO DOCS AT ISSUE LEVEL CHANGE |                  |  |          | DRN<br>DATE<br>9 Oct 87              |
|                           |           |                | CHK'D<br>DATE<br>13 Oct 87                                               |                  | TITLE<br>1281<br>DC PCB ASSY.                                                      |          | DRAWING NO<br>400738<br>SHEET 1 OF 2 |

|                      |        |                |                                                                          |                  |                                                                                     |          |                                      |
|----------------------|--------|----------------|--------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|----------|--------------------------------------|
| DRAWING NO<br>400738 |        | CHK'D          | DATE                                                                     |                  | ECO                                                                                 | REVISION | ISSUE                                |
| DOCUMENT LIST        |        |                |                                                                          |                  |                                                                                     |          |                                      |
| DI WM                |        |                |                                                                          |                  |                                                                                     |          |                                      |
| DESCRIPTION          |        | DRAWING NUMBER | SHEET NUMBER                                                             | ISSUE - REVISION |                                                                                     |          |                                      |
| PARTS LIST           | 480738 | 3              | 1.0                                                                      | 1.1              | 1.2                                                                                 | 1.3      | 1.4                                  |
| ASSEMBLY DRAWING     |        |                |                                                                          |                  |                                                                                     |          |                                      |
| CIRCUIT DIAGRAM      |        |                |                                                                          |                  |                                                                                     |          |                                      |
| TEST PROCEDURE       |        |                |                                                                          |                  |                                                                                     |          |                                      |
| TEST SPECIFICATION   |        |                |                                                                          |                  |                                                                                     |          |                                      |
| PCB                  |        |                |                                                                          |                  |                                                                                     |          |                                      |
| NOTES                |        |                | <input type="checkbox"/> DENOTES NO CHANGE TO DOCS AT ISSUE LEVEL CHANGE |                  |  |          | DRN<br>DATE<br>3 Nov 88              |
|                      |        |                | CHK'D<br>DATE                                                            |                  | APPD<br>DATE                                                                        |          | TITLE<br>1281<br>DC PCB ASSY.        |
|                      |        |                |                                                                          |                  |                                                                                     |          | DRAWING NO<br>400738<br>SHEET 2 OF 2 |

- 3 JAN 1989

| DESIG | PART NO  | DESCRIPTION                | PRINC MANUF   | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|----------------------------|---------------|-------------------|-------|----|----------|---------|
| R101  | 008014   | RES MG 10M 5% 2.5KV        | PHILIPS       | VR37-10M          | EA    | 2  |          |         |
| R102  | 008014   | RES MG 10M 5% 2.5KV        | PHILIPS       | VR37-10M          | EA    | -  |          |         |
| R103  | 090001   | THERMISTOR PTC 80R         | PHILIPS       | VA8650            | EA    | 1  |          |         |
| R201  | 011001   | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 24       |         |
| R202  | 041004   | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 10       |         |
| R203  | 041004   | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R204  | 041005   | RES MF 10M0 1% .12W 100PPM | STEATITE      | MK2               | A     | EA | 2        |         |
| R205  | 090106-1 | RES WW SET 3M3 X 3 +100K   | VISHAY MANN   | SEE DRG           | S4    | 1  |          |         |
| R206  | 090106-1 | RES WW SET 3M3 X 3 +100K   | VISHAY MANN   | SEE DRG           | S4    | -  |          |         |
| R207  | 080048-2 | RES FL 10K1 1% 3PPM        | VISHAY MANN   | SEE DRG           | EA    | 1  |          |         |
| R208  | 090106-1 | RES WW SET 3M3 X 3 +100K   | VISHAY MANN   | SEE DRG           | S4    | -  |          |         |
| R209  | 080103-1 | RES FL 5K00 1%             | VISHAY MANN   | SEE DRG           | A     | EA | 3        |         |
| R210  | 080103-1 | RES FL 5K00 1%             | VISHAY MANN   | SEE DRG           | A     | EA | -        |         |
| R211  | 080103-1 | RES FL 5K00 1%             | VISHAY MANN   | SEE DRG           | A     | EA | -        |         |
| R212  | 090106-1 | RES WW SET 3M3 X 3 +100K   | VISHAY MANN   | SEE DRG           | S4    | -  |          |         |
| R213  | 01000F   | RES MF FSU                 |               |                   | EA    | 6  |          |         |
| R214  | 01000F   | RES MF FSU                 |               |                   | EA    | -  |          |         |
| R215  | 011001   | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R216  | 042214   | RES MF 2M21 1% .12W 100PPM | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R217  | 042214   | RES MF 2M21 1% .12W 100PPM | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R218  | 011001   | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R219  | 041004   | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R220  | 080043-2 | RES FL 1K00 1% 3PPM        | VISHAY MANN   | SEE DRG           | EA    | 1  |          |         |
| R221  | 000686   | RES HM 68M 5% .25W         | ALLEN BRADLEY | CB                | A     | EA | 1        |         |
| R222  | 065008   | RES CT 100K VERT M/T       | BOURNS        | 3296W-100K        | A     | EA | 1        |         |
| R223  | 011002   | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 15       |         |
| R224  | 011002   | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R225  | 011501   | RES MF 1K50 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 3        |         |
| R226  | 012212   | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 3        |         |
| R227  | 012212   | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R228  | 011501   | RES MF 1K50 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R229  | 011003   | RES MF 100K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 5        |         |
| R230  | 011003   | RES MF 100K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R231  | 014750   | RES MF 475R 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 6        |         |
| R232  | 011501   | RES MF 1K50 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R233  | 013321   | RES MF 3K32 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R234  | 041004   | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R235  | 011002   | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R236  | 090149-1 | RES FL SET 25K/15K/9K/1K   | VISHAY MANN   | SEE DRG           | S4    | 1  |          |         |
| R237  | 090149-1 | RES FL SET 25K/15K/9K/1K   | VISHAY MANN   | SEE DRG           | S4    | -  |          |         |
| R238  | 090149-1 | RES FL SET 25K/15K/9K/1K   | VISHAY MANN   | SEE DRG           | S4    | -  |          |         |
| R239  | 090149-1 | RES FL SET 25K/15K/9K/1K   | VISHAY MANN   | SEE DRG           | S4    | -  |          |         |
| R240  | 044753   | RES MF 475K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R241  | 012493   | RES MF 249K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R242  | 011503   | RES MF 150K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |

| DESIG | PART NO | DESCRIPTION                | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|----------------------------|-------------|-------------------|-------|----|----------|---------|
| R243  | 019092  | RES MF 90K9 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R244  | 011002  | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R245  | 041005  | RES MF 10M0 1% .12W 100PPM | STEATITE    | MK2               | A     | EA | -        |         |
| R246  | 011212  | RES MF 12K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R247  | 017502  | RES MF 75K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R248  | 017502  | RES MF 75K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R249  | 014751  | RES MF 4K75 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 8        |         |
| R250  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R251  | 045113  | RES MF 511K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R252  | 013323  | RES MF 332K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R253  | 013323  | RES MF 332K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R254  | 00000N  | NOT FITTED                 |             |                   | EA    | 23 |          |         |
| R255  | 041004  | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R256  | 011821  | RES MF 1K82 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R257  | 041004  | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R258  | 041004  | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R259  | 013323  | RES MF 332K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R260  | 041004  | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R301  | 011373  | RES MF 137K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 4        |         |
| R302  | 011002  | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R303  | 014751  | RES MF 4K75 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R304  | 014422  | RES MF 44K2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R305  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R306  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R307  | 014321  | RES MF 4K32 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R308  | 017501  | RES MF 7K50 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R309  | 014321  | RES MF 4K32 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R310  | 017501  | RES MF 7K50 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R311  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R312  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R313  | 011002  | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R314  | 011002  | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R315  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R316  | 018251  | RES MF 8K25 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R317  | 065007  | RES CT 500R VERT M/T       | BOURNS      | 3296W-500R        | A     | EA | 1        |         |
| R318  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R319  | 018251  | RES MF 8K25 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R320  | 014750  | RES MF 475R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R321  | 014750  | RES MF 475R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R322  | 015901  | RES MF 5K90 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R323  | 015901  | RES MF 5K90 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R324  | 011822  | RES MF 18K2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R325  | 011822  | RES MF 18K2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R326  | 011008  | RES MF 10R0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 10       |         |
| R327  | 011008  | RES MF 10R0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |

| DESIG | PART NO  | DESCRIPTION               | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|---------------------------|-------------|-------------------|-------|----|----------|---------|
| R328  | 011002   | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R329  | 011008   | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R330  | 011008   | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R331  | 011000   | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 22       |         |
| R332  | 011000   | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R333  | 011000   | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R402  | 041004   | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R403  | 01000F   | RES MF PSV                |             |                   |       | EA | -        |         |
| R404  | 01000F   | RES MF PSV                |             |                   |       | EA | -        |         |
| R405  | 011103   | RES MF 110K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R406  | 080072   | RES FL 312R8 .1% 3PPM     | VISHAY MANN | S102C             |       | EA | 2        |         |
| R407  | 080072   | RES FL 312R8 .1% 3PPM     | VISHAY MANN | S102C             |       | EA | -        |         |
| R408  | 011001   | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R409  | 090172-1 | RES FL SET 27K/68K        | VISHAY MANN | SEE DRG           |       | S2 | 1        |         |
| R410  | 011001   | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R411  | 011103   | RES MF 110K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R412  | 019530   | RES MF 953R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R414  | 090172-1 | RES FL SET 27K/68K        | VISHAY MANN | SEE DRG           |       | S2 | -        |         |
| R415  | 011000   | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R416  | 011000   | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R417  | 000336   | RES CF 3R3 5% .25W        | NEOHM       | CFR25             | A     | EA | 1        |         |
| R418  | 011212   | RES MF 12K1 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R419  | 011212   | RES MF 12K1 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R420  | 011000   | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R421  | 011210   | RES MF 121R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R422  | 011000   | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R423  | 018250   | RES MF 825R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R424  | 016198   | RES MF 618R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R425  | 016198   | RES MF 618R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R426  | 011001   | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R427  | 011001   | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R428  | 011000   | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R429  | 011373   | RES MF 137K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R430  | 011002   | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R431  | 011002   | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R432  | 011373   | RES MF 137K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R433  | 011008   | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R434  | 011008   | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R435  | 011373   | RES MF 137K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R501  | 00000H   | NOT FITTED                |             |                   |       | EA | -        |         |
| R502  | 019052   | RES MF 90K9 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R503  | 011002   | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R504  | 011002   | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R505  | 011690   | RES MF 169R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R506  | 015902   | RES MF 59K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |

| DESIG | PART NO  | DESCRIPTION                 | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|-----------------------------|-------------|-------------------|-------|----|----------|---------|
| R507  | 016911   | RES MF 6K81 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R508  | 016911   | RES MF 6K81 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R509  | 017502   | RES MF 75K0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R510  | 015111   | RES MF 5111 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R511  | 050082   | RES MF 75K0 .25% .12W 50PPM | HOLSWORTHY  | H8                |       | EA | 1        |         |
| R512  | 050081   | RES MF 4K99 .25% .12W 50PPM | HOLSWORTHY  | H8                |       | EA | 1        |         |
| R513  | 090171-1 | RES FL SET 136K/68K         | VISHAY MANN | SEE DRG           |       | S2 | 1        |         |
| R514  | 090171-1 | RES FL SET 136K/68K         | VISHAY MANN | SEE DRG           |       | S2 | -        |         |
| R515  | 070198-1 | RES MF 1M088 .02%           | VISHAY MANN | SEE DRG           |       | EA | 1        |         |
| R516  | 011001   | RES MF 1K00 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R517  | 011008   | RES MF 10R0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R518  | 012002   | RES MF 20K0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R519  | 011008   | RES MF 10R0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R520  | 012002   | RES MF 20K0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R521  | 012002   | RES MF 20K0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R522  | 018252   | RES MF 82K5 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R523  | 018252   | RES MF 82K5 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R524  | 011003   | RES MF 100K 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R525  | 012211   | RES MF 2K21 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R526  | 012211   | RES MF 2K21 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R527  | 011000   | RES MF 100R 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R528  | 011821   | RES MF 18K2 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R529  | 00000H   | NOT FITTED                  |             |                   |       | EA | -        |         |
| R530  | 00000H   | NOT FITTED                  |             |                   |       | EA | -        |         |
| R531  | 00000H   | NOT FITTED                  |             |                   |       | EA | -        |         |
| R532  | 014750   | RES MF 475R 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R533  | 011000   | RES MF 100R 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R534  | 011008   | RES MF 10R0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R535  | 011008   | RES MF 10R0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R536  | 014751   | RES MF 4K75 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R537  | 011003   | RES MF 100K 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R538  | 014751   | RES MF 4K75 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R539  | 011003   | RES MF 100K 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R540  | 011002   | RES MF 10K0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R541  | 018251   | RES MF 8K25 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R542  | 00000H   | NOT FITTED                  |             |                   |       | EA | -        |         |
| R543  | 00000H   | NOT FITTED                  |             |                   |       | EA | -        |         |
| R544  | 00000H   | NOT FITTED                  |             |                   |       | EA | -        |         |
| R545  | 041204   | RES MF 1M20 1% .12W 100PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R546  | 041825   | RES MF 18M2 1% .12W 150PPM  | MEPCO       | 5053YL            | A     | EA | 1        |         |
| R547  | 041004   | RES MF 1M00 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R548  | 011002   | RES MF 10K0 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R601  | 011003   | RES MF 100K 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R602  | 012492   | RES MF 24K9 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R603  | 012218   | RES MF 22R1 1% .12W 50PPM   | HOLSWORTHY  | H8C               | A     | EA | 2        |         |

| DESIG | PART NO | DESCRIPTION                | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|----------------------------|-------------|-------------------|-------|----|----------|---------|
| R604  | 012218  | RES MF 22R1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R607  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R608  | 012212  | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R609  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R610  | 012670  | RES MF 267R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R611  | 012670  | RES MF 267R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R612  | 012001  | RES MF 2K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R613  | 012001  | RES MF 2K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R614  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R615  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R616  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R701  | 014750  | RES MF 475R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R702  | 014750  | RES MF 475R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R703  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R704  | 012740  | RES MF 274R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R705  | 012740  | RES MF 274R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R706  | 014751  | RES MF 4K75 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R707  | 012740  | RES MF 274R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R708  | 014751  | RES MF 4K75 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R709  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R710  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R711  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R712  | 012000  | RES MF 200R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R713  | 012000  | RES MF 200R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R714  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R715  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R716  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R717  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R718  | 011002  | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R719  | 041964  | RES MF 1M96 1% .12W 100PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R720  | 011870  | RES MF 187R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R721  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R722  | 014751  | RES MF 4K75 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R723  | 014751  | RES MF 4K75 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R724  | 013322  | RES MF 33K2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R802  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R803  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R804  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R805  | 011003  | RES MF 100K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R806  | 011003  | RES MF 100K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R807  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R808  | 011502  | RES MF 15K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R809  | 016198  | RES MF 619R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R810  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R811  | 011003  | RES MF 100K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |

| DESIG | PART NO | DESCRIPTION               | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|---------------------------|-------------|-------------------|-------|----|----------|---------|
| R812  | 019092  | RES MF 90K9 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R813  | 011001  | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R814  | 011503  | RES MF 150K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R815  | 011000  | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R901  | 011542  | RES MF 15K4 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R902  | 011542  | RES MF 15K4 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R903  | 016190  | RES MF 619R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R904  | 01000F  | RES MF FSV                |             |                   |       |    |          |         |
| R905  | 016190  | RES MF 619R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R906  | 01000F  | RES MF FSV                |             |                   |       |    |          |         |
| AN201 | 090095  | RES PACK 47K X 4 2%       | BECKMAN     | L08-3-R47K        |       |    | EA 1     |         |
| AN202 | 090105  | RES PACK 100R X 4 2%      | BECKMAN     | L08-3-R100        |       |    | EA 1     |         |
| AN203 | 090131  | RES PACK 10K X 4 2%       | BECKMAN     | L08-3-R10K        |       |    | EA 1     |         |
| AN204 | 090167  | RES PACK 100K X 4 2%      | BECKMAN     | L08-3-R100K       |       |    | EA 2     |         |
| AN205 | 090167  | RES PACK 100K X 4 2%      | BECKMAN     | L08-3-R100K       |       |    | EA -     |         |
| AN301 | 090139  | RES PACK 2K2 X 4 2%       | BECKMAN     | L08-3-R2K2        |       |    | EA 2     |         |
| AN302 | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       |    | EA 9     |         |
| AN401 | 090151  | RES PACK 3K3 X 4 2%       | BECKMAN     | L08-3-R3K3        |       |    | EA 1     |         |
| AN701 | 090164  | RES NTWK 2K2 X 8 2%       | BECKMAN     | L09-1-R2K2        |       |    | EA 1     |         |
| AN702 | 090132  | RES PACK 4K7 X 4 2%       | BECKMAN     | L08-3-R4K7        |       |    | EA 1     |         |
| AN703 | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       |    | EA -     |         |
| AN704 | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       |    | EA -     |         |
| AN705 | 090041  | RES NTWK 4K7 X 7 2%       | BECKMAN     | L08-1-R4K7        |       |    | EA 1     |         |
| AN706 | 090139  | RES PACK 2K2 X 4 2%       | BECKMAN     | L08-3-R2K2        |       |    | EA -     |         |
| AN801 | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       |    | EA -     |         |
| AN802 | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       |    | EA -     |         |
| AN803 | 090121  | RES NTWK 100K X 8 2%      | BECKMAN     | L09-1-R100K       |       |    | EA 5     |         |
| AN804 | 090121  | RES NTWK 100K X 8 2%      | BECKMAN     | L09-1-R100K       |       |    | EA -     |         |
| AN805 | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       |    | EA -     |         |
| AN806 | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       |    | EA -     |         |
| AN807 | 090121  | RES NTWK 100K X 8 2%      | BECKMAN     | L09-1-R100K       |       |    | EA -     |         |
| AN808 | 090121  | RES NTWK 100K X 8 2%      | BECKMAN     | L09-1-R100K       |       |    | EA -     |         |
| AN809 | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       |    | EA -     |         |
| AN810 | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       |    | EA -     |         |
| AN811 | 090121  | RES NTWK 100K X 8 2%      | BECKMAN     | L09-1-R100K       |       |    | EA -     |         |
| C201  | 104030  | CAP CD 100PF 10% 4KV      | ITT         | HD16              |       |    | EA 1     |         |
| C202  | 140078  | CAP PP 1HF 5% 100V        | WIPA        | FRP2              |       |    | EA 3     |         |
| C203  | 140078  | CAP PP 1HF 5% 100V        | WIPA        | FKP2              |       |    | EA -     |         |
| C204  | 150016  | CAP DT 1UF 20% 35V        | AVX         | TAPIROM35F        |       |    | EA 9     |         |
| C205  | 100331  | CAP CP 330PF 2% 100V      | PHILIPS     | 2222 683 58331    | A     |    | EA 1     |         |
| C206  | 100102  | CAP CP 1HF 10% 100V       | PHILIPS     | 2222 630 19102    |       |    | EA 1     |         |
| C207  | 100472  | CAP CP 4H7F 10% 100V      | PHILIPS     | 2222 630 19472    |       |    | EA 2     |         |
| C208  | 104025  | CAP CD 100HF +80%-20% 50V | SIEMENS     | B37449            |       |    | EA 13    |         |
| C209  | 150016  | CAP DT 1UF 20% 35V        | AVX         | TAPIROM35F        | A     |    | EA -     |         |
| C211  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339    |       |    | EA 3     |         |

| DESIG | PART NO | DESCRIPTION               | PRINC MANUF | MANUF PART NUMBER    | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|---------------------------|-------------|----------------------|-------|----|----------|---------|
| C212  | 110027  | CAP PE 33PF 20% 100V      | WIMA        | FKS2                 |       | EA | 1        |         |
| C213  | 100472  | CAP CP 47PF 10% 100V      | PHILIPS     | 2222 630 19472       |       | EA | -        |         |
| C214  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C222  | 150016  | CAP DT 10F 20% 35V        | AVX         | TAP10M35F            | A     | EA | -        |         |
| C301  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C302  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C303  | 150020  | CAP DT 10PF 20% 25V       | AVX         | TAP10M25F            | A     | EA | 11       |         |
| C304  | 110004  | CAP PE 47PF 20% 250V      | PHILIPS     | C280AEP47K           |       | EA | 2        |         |
| C305  | 110004  | CAP PE 47PF 20% 250V      | PHILIPS     | C280AEP47K           |       | EA | -        |         |
| C306  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C307  | 180063  | CAP AE 100PF +80/-20% 25V | ECC         | KMYB                 |       | EA | 4        |         |
| C308  | 180063  | CAP AE 100PF +80/-20% 25V | ECC         | KMYB                 |       | EA | -        |         |
| C309  | 104017  | CAP CD 0056F +/-001F 500V | ITT         | GD08AG0P56BS         |       | EA | 1        |         |
| C310  | 100390  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34399       |       | EA | 2        |         |
| C311  | 100390  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34399       |       | EA | -        |         |
| C412  | 180063  | CAP AE 100PF +80/-20% 25V | ECC         | KMYB                 |       | EA | -        |         |
| C413  | 180063  | CAP AE 100PF +80/-20% 25V | ECC         | KMYB                 |       | EA | -        |         |
| C401  | 120004  | CAP PC 680PF 10% 63V      | ASHCROFT    | A2B0811B             |       | EA | 1        |         |
| C402  | 120021  | CAP PC 470PF 10% 63V      | ASHCROFT    | A2B4711B             |       | EA | 1        |         |
| C403  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | 12       |         |
| C404  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C405  | 101103  | CAP CD 10NF -20+80% 250V  | BECK        | CD10K310N02SCR/SK250 |       | EA | 7        |         |
| C406  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C407  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C408  | 101103  | CAP CD 10NF -20+80% 250V  | BECK        | CD10K310N02SCR/SK250 |       | EA | -        |         |
| C410  | 140078  | CAP PP 10PF 5% 100V       | WIMA        | FKP2                 |       | EA | -        |         |
| C411  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C412  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C413  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C414  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C415  | 150020  | CAP DT 10PF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C416  | 150020  | CAP DT 10PF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C417  | 110064  | CAP PE 100F 40V           | ASHCROFT    | M1B103 14B           |       | EA | 2        |         |
| C418  | 110064  | CAP PE 100F 40V           | ASHCROFT    | M1B103 14B           |       | EA | -        |         |
| C419  | 110062  | CAP PE 100F 10% 40V       | ASHCROFT    | M1B102 14B           |       | EA | 2        |         |
| C420  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C421  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C422  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C423  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C424  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C425  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C426  | 140081  | CAP PP 470NF 10% 160V     | RIFA        | PHE404FB6470K        |       | EA | 6        |         |
| C427  | 140077  | CAP PP 100PF 5% 100V      | WIMA        | FKP2                 |       | EA | 1        |         |
| C501  | 100100  | CAP CD 10PF 2% 100V       | PHILIPS     | 2222 683 10109       |       | EA | 1        |         |
| C502  | 150021  | CAP DT 22UF 20% 25V       | AVX         | TAP22M25F            | A     | EA | 2        |         |

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|-------|---------|---------------------------|-------------|----------------------|-------|----|----------|---------|
| C503  | 150021  | CAP DT 22UF 20% 25V       | AVX         | TAP22M25F            | A     | EA | -        |         |
| C504  | 100101  | CAP CD 100PF 2% 100V      | PHILIPS     | 2222 683 34101       |       | EA | 2        |         |
| C505  | 140064  | CAP PP 100PF 5% 200V      | TRW         | X3630W               |       | EA | 1        |         |
| C506  | 100101  | CAP CD 100PF 2% 100V      | PHILIPS     | 2222 683 34101       |       | EA | -        |         |
| C507  | 140065  | CAP PP 47NF 10% 160V      | WIMA        | MKP10                |       | EA | 1        |         |
| C508  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C509  | 110042  | CAP PE 100PF 20% 63V      | WIMA        | MKS2                 |       | EA | -        |         |
| C510  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C511  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C512  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C513  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C514  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C515  | 100220  | CAP CP 22PF 2% 100V       | PHILIPS     | 2222 683 34229       |       | EA | 1        |         |
| C516  | 100222  | CAP CP 22PF 10% 100V      | PHILIPS     | 2222 630 19222       |       | EA | 1        |         |
| C517  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C518  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C519  | 150020  | CAP DT 10UF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C520  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C521  | 101103  | CAP CD 10NF -20+80% 250V  | BECK        | CD10K310N02SCR/SK250 |       | EA | -        |         |
| C522  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339       |       | EA | -        |         |
| C523  | 100151  | CAP CP 150PF 2% 100V      | PHILIPS     | 2222 683 34151       |       | EA | 3        |         |
| C524  | 150020  | CAP DT 10UF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C525  | 150020  | CAP DT 10UF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C526  | 150020  | CAP DT 10UF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C527  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | 12       |         |
| C528  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C529  | 00000N  | NOT FITTED                |             |                      |       | EA | -        |         |
| C530  | 120022  | CAP PC 1NSF 20% 100V      | WIMA        | FKC2                 |       | EA | 1        |         |
| C531  | 120029  | CAP PC 688F 20% 100V      | WIMA        | FKC2                 |       | EA | 1        |         |
| C601  | 150020  | CAP DT 10UF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C602  | 150020  | CAP DT 10UF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C604  | 101103  | CAP CD 10NF -20+80% 250V  | BECK        | CD10K310N02SCR/SK250 |       | EA | -        |         |
| C605  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339       |       | EA | -        |         |
| C606  | 110062  | CAP PE 100F 10% 40V       | ASHCROFT    | M1B102 14B           |       | EA | -        |         |
| C607  | 140081  | CAP PP 470NF 10% 160V     | RIFA        | PHE404FB6470K        |       | EA | -        |         |
| C608  | 100470  | CAP CP 47PF 2% 100V       | PHILIPS     | 2222 683 34479       |       | EA | 2        |         |
| C609  | 100122  | CAP CP 1N2F 10% 100V      | PHILIPS     | 2222 630 19122       |       | EA | 2        |         |
| C610  | 100122  | CAP CP 1N2F 10% 100V      | PHILIPS     | 2222 630 19122       |       | EA | -        |         |
| C611  | 100470  | CAP CP 47PF 2% 100V       | PHILIPS     | 2222 683 34479       |       | EA | -        |         |
| C612  | 140081  | CAP PP 470NF 10% 160V     | RIFA        | PHE404FB6470K        |       | EA | -        |         |
| C613  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C615  | 140081  | CAP PP 470NF 10% 160V     | RIFA        | PHE404FB6470K        |       | EA | -        |         |
| C616  | 140081  | CAP PP 470NF 10% 160V     | RIFA        | PHE404FB6470K        |       | EA | -        |         |
| C617  | 140081  | CAP PP 470NF 10% 160V     | RIFA        | PHE404FB6470K        |       | EA | -        |         |
| C701  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |

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|-------|---------|---------------------------|-------------|----------------------|-------|----|----------|---------|
| C702  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C703  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C704  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C705  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C706  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C707  | 110041  | CAP PE 10NF 20% 100V      | WINA        | FKS2                 |       | EA | 1        |         |
| C801  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C802  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C803  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C804  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C805  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449               |       | EA | -        |         |
| C806  | 150020  | CAP DT 10UF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C807  | 180059  | CAP AE 470UF 25V          | ECC         | KMVB                 |       | EA | 1        |         |
| C808  | 150020  | CAP DT 10UF 20% 25V       | AVX         | TAP10M25F            | A     | EA | -        |         |
| C809  | 100150  | CAP CP 15PF 2% 100V       | PHILIPS     | 2222 683 10159       |       | EA | 2        |         |
| C810  | 101103  | CAP CD 10NF -20+80% 250V  | BECK        | CD10K310N0ZSCR/SK250 |       | EA | -        |         |
| C811  | 100151  | CAP CP 150PF 2% 100V      | PHILIPS     | 2222 683 34151       |       | EA | -        |         |
| C812  | 100150  | CAP CP 15PF 2% 100V       | PHILIPS     | 2222 683 10159       |       | EA | -        |         |
| C813  | 100151  | CAP CP 150PF 2% 100V      | PHILIPS     | 2222 683 34151       |       | EA | -        |         |
| C814  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C815  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C816  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C901  | 180047  | CAP AE 1000UF 40V         | ECC         | SMVB                 |       | EA | 3        |         |
| C902  | 150016  | CAP DT 1UF 20% 35V        | AVX         | TAP1R0M35F           | A     | EA | -        |         |
| C903  | 150016  | CAP DT 1UF 20% 35V        | AVX         | TAP1R0M35F           | A     | EA | -        |         |
| C904  | 180047  | CAP AE 1000UF 40V         | ECC         | SMVB                 |       | EA | -        |         |
| C905  | 150016  | CAP DT 1UF 20% 35V        | AVX         | TAP1R0M35F           | A     | EA | -        |         |
| C906  | 150016  | CAP DT 1UF 20% 35V        | AVX         | TAP1R0M35F           | A     | EA | -        |         |
| C907  | 180055  | CAP AE 33UF 63V           | ECC         | KMVB                 |       | EA | 2        |         |
| C908  | 101103  | CAP CD 10NF -20+80% 250V  | BECK        | CD10K310N0ZSCR/SK250 |       | EA | -        |         |
| C909  | 180054  | CAP AE 1UF 63V            | PHILIPS     | 035 58108            |       | EA | 4        |         |
| C910  | 180055  | CAP AE 33UF 63V           | ECC         | KMVB                 |       | EA | -        |         |
| C911  | 101103  | CAP CD 10NF -20+80% 250V  | BECK        | CD10K310N0ZSCR/SK250 |       | EA | -        |         |
| C912  | 180054  | CAP AE 1UF 63V            | PHILIPS     | 035 58108            |       | EA | -        |         |
| C913  | 180054  | CAP AE 1UF 63V            | PHILIPS     | 035 58108            |       | EA | -        |         |
| C914  | 180054  | CAP AE 1UF 63V            | PHILIPS     | 035 58108            |       | EA | -        |         |
| C915  | 150016  | CAP DT 1UF 20% 35V        | AVX         | TAP1R0M35F           | A     | EA | -        |         |
| C916  | 180047  | CAP AE 1000UF 40V         | ECC         | SMVB                 |       | EA | -        |         |
| C917  | 150016  | CAP DT 1UF 20% 35V        | AVX         | TAP1R0M35F           | A     | EA | -        |         |
| CN701 | 104052  | CAP HTWK 220PF 10%        | MURATA/ERIE | B8XC0117-33N         |       | EA | 1        |         |
| D201  | 211200  | DIODE ZN 20V 1.3W         | PHILIPS     | BZV85C20             |       | EA | 2        |         |
| D202  | 211200  | DIODE ZN 20V 1.3W         | PHILIPS     | BZV85C20             |       | EA | 2        |         |
| D203  | 210150  | DIODE ZN 15V 400mW        | PHILIPS     | BZX79C15             | A     | EA | -        |         |
| D204  | 210150  | DIODE ZN 15V 400mW        | PHILIPS     | BZX79C15             | A     | EA | -        |         |
| D205  | 220043  | DIODE JFET 10mA           | SILICONIX   | JPAD100              |       | EA | 8        |         |

| DESIG | PART NO | DESCRIPTION         | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|---------------------|-------------|-------------------|-------|----|----------|---------|
| D206  | 220043  | DIODE JFET 10mA     | SILICONIX   | JPAD100           |       | EA | -        |         |
| D207  | 210068  | DIODE ZN 6V8 400mW  | PHILIPS     | BZX79C6V8         | A     | EA | 1        |         |
| D208  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | 14       |         |
| D209  | 220043  | DIODE JFET 10mA     | SILICONIX   | JPAD100           |       | EA | -        |         |
| D210  | 211220  | DIODE ZN 22V 1.3W   | PHILIPS     | BZV85C22          |       | EA | 2        |         |
| D211  | 211220  | DIODE ZN 22V 1.3W   | PHILIPS     | BZV85C22          |       | EA | -        |         |
| D212  | 210062  | DIODE ZN 6V2 400mW  | PHILIPS     | BZX79C6V2         | A     | EA | 2        |         |
| D213  | 210062  | DIODE ZN 6V2 400mW  | PHILIPS     | BZX79C6V2         | A     | EA | -        |         |
| D214  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D215  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D216  | 210120  | DIODE ZN 12V 400mW  | PHILIPS     | BZX79C12          | A     | EA | 5        |         |
| D217  | 210120  | DIODE ZN 12V 400mW  | PHILIPS     | BZX79C12          | A     | EA | -        |         |
| D218  | 200008  | DIODE GP 200mA 125V | FAIRCHILD   | 1N458A            | A     | EA | 6        |         |
| D219  | 200008  | DIODE GP 200mA 125V | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D220  | 200008  | DIODE GP 200mA 125V | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D221  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D222  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D223  | 200008  | DIODE GP 200mA 125V | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D224  | 210270  | DIODE ZN 27V 400mW  | PHILIPS     | BZX79C27          | A     | EA | 1        |         |
| D225  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D226  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D227  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D228  | 220043  | DIODE JFET 10mA     | SILICONIX   | JPAD100           |       | EA | -        |         |
| D301  | 220043  | DIODE JFET 10mA     | SILICONIX   | JPAD100           |       | EA | -        |         |
| D302  | 210047  | DIODE ZN 4V7 400mW  | PHILIPS     | BZX79C4V7         | A     | EA | 1        |         |
| D303  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D304  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D305  | 220043  | DIODE JFET 10mA     | SILICONIX   | JPAD100           |       | EA | -        |         |
| D401  | 210039  | DIODE ZN 3V9 400mW  | PHILIPS     | BZX79C3V9         | A     | EA | 2        |         |
| D402  | 210039  | DIODE ZN 3V9 400mW  | PHILIPS     | BZX79C3V9         | A     | EA | -        |         |
| D403  | 210120  | DIODE ZN 12V 400mW  | PHILIPS     | BZX79C12          | A     | EA | -        |         |
| D502  | 200008  | DIODE GP 200mA 125V | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D503  | 200008  | DIODE GP 200mA 125V | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D504  | 210120  | DIODE ZN 12V 400mW  | PHILIPS     | BZX79C12          | A     | EA | -        |         |
| D505  | 210120  | DIODE ZN 12V 400mW  | PHILIPS     | BZX79C12          | A     | EA | -        |         |
| D506  | 210051  | DIODE ZN 5V1 400mW  | PHILIPS     | BZX79C5V1         | A     | EA | 3        |         |
| D507  | 210051  | DIODE ZN 5V1 400mW  | PHILIPS     | BZX79C5V1         | A     | EA | -        |         |
| D508  | 00000N  | NOT FITTED          |             |                   |       | EA | -        |         |
| D509  | 00000N  | NOT FITTED          |             |                   |       | EA | -        |         |
| D510  | 213006  | DIODE ZN 5V 5W      | UNITRODE    | TVS505            |       | EA | 3        |         |
| D511  | 210051  | DIODE ZN 5V1 400mW  | PHILIPS     | BZX79C5V1         | A     | EA | -        |         |
| D601  | 210100  | DIODE ZN 10V 400mW  | PHILIPS     | BZX79C10          | A     | EA | 1        |         |
| D603  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D604  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |
| D605  | 200001  | DIODE GP 75mA 75V   | FAIRCHILD   | 1N4148            |       | EA | -        |         |

| DESIG | PART NO  | DESCRIPTION            | PRINC MANUF    | MANUF PART NUMBER | CLASS UM | QUANTITY | CHANGES |
|-------|----------|------------------------|----------------|-------------------|----------|----------|---------|
| D606  | 200001   | DIODE GP 75mA 75V      | FAIRCHILD      | 1N4148            | EA -     |          |         |
| D607  | 220043   | DIODE JFET 10mA        | SILICONIX      | JPAD100           | EA -     |          |         |
| D608  | 220043   | DIODE JFET 10mA        | SILICONIX      | JPAD100           | EA -     |          |         |
| D801  | 200002   | DIODE GP 1A 50V        | FAIRCHILD      | 1N4001            | EA 1     |          |         |
| D802  | 213011   | DIODE VR 1V5 250mW     | PHILIPS        | BZV46-1V5         | EA 2     |          |         |
| D803  | 213011   | DIODE VR 1V5 250mW     | PHILIPS        | BZV46-1V5         | EA -     |          |         |
| D804  | 213006   | DIODE ZN 5V 5W         | UNITRODE       | TVS505            | EA -     |          |         |
| D901  | 200006   | DIODE GP 1A 600V       | FAIRCHILD      | 1N4005            | EA 7     |          |         |
| D902  | 200006   | DIODE GP 1A 600V       | FAIRCHILD      | 1N4005            | EA -     |          |         |
| D903  | 200006   | DIODE GP 1A 600V       | FAIRCHILD      | 1N4005            | EA -     |          |         |
| D904  | 200006   | DIODE GP 1A 600V       | FAIRCHILD      | 1N4005            | EA -     |          |         |
| D905  | 200006   | DIODE GP 1A 600V       | FAIRCHILD      | 1N4005            | EA -     |          |         |
| D906  | 200006   | DIODE GP 1A 600V       | FAIRCHILD      | 1N4005            | EA -     |          |         |
| D907  | 200006   | DIODE GP 1A 600V       | FAIRCHILD      | 1N4005            | EA -     |          |         |
| D908  | 200028   | DIODE SB 1A 30V        | INT RECTIFIERS | 11DQ04            | EA 2     |          |         |
| D909  | 200028   | DIODE SB 1A 30V        | INT RECTIFIERS | 11DQ04            | EA -     |          |         |
| D910  | 213009   | DIODE ZN 15V 5W        | UNITRODE       | TVS515            | EA 2     |          |         |
| D911  | 213009   | DIODE ZN 15V 5W        | UNITRODE       | TVS515            | EA -     |          |         |
| D912  | 213006   | DIODE ZN 5V 5W         | UNITRODE       | TVS305            | EA -     |          |         |
| Q201  | 230082   | TRAN MOSFET N-CHAN 60V | SILICONIX      | VN10LM            | EA 5     |          |         |
| Q202  | 230089   | TRAN JFET I LIM 240uA  | SILICONIX      | J500              | EA 2     |          |         |
| Q203  | 230089   | TRAN JFET I LIM 240uA  | SILICONIX      | J500              | EA -     |          |         |
| Q204  | 240009   | TRAN NPN TO18          | NATIONAL       | MPSL01/2N5550     | EA 8     |          |         |
| Q205  | 250009   | TRAN PNP TO92          | NATIONAL       | 2N5401            | EA 7     |          |         |
| Q206  | 250009   | TRAN PNP TO92          | NATIONAL       | 2N5401            | EA -     |          |         |
| Q207  | 240009   | TRAN NPN TO18          | NATIONAL       | MPSL01/2N5550     | EA -     |          |         |
| Q208  | 240006   | TRAN NPN TO92          | MOTOROLA       | 2N3904            | EA 5     |          |         |
| Q209  | 250004   | TRAN PNP TO92          | NATIONAL       | 2N3906            | EA 7     |          |         |
| Q210  | 250004   | TRAN PNP TO92          | NATIONAL       | 2N3906            | EA -     |          |         |
| Q211  | 230081   | TRAN MOSFET N-CHAN     | FERRANTI       | ZVN0106A          | A EA 4   |          |         |
| Q212  | 230027-1 | TRAN JFET N-CHAN 60V   | DATRON         | SEE DRG           | A EA 7   |          |         |
| Q213  | 230027-1 | TRAN JFET N-CHAN 60V   | DATRON         | SEE DRG           | A EA -   |          |         |
| Q214  | 230027-1 | TRAN JFET N-CHAN 60V   | DATRON         | SEE DRG           | A EA -   |          |         |
| Q215  | 250004   | TRAN PNP TO92          | NATIONAL       | 2N3906            | EA -     |          |         |
| Q216  | 230081   | TRAN MOSFET N-CHAN     | FERRANTI       | ZVN0106A          | A EA -   |          |         |
| Q217  | 230027-1 | TRAN JFET N-CHAN 60V   | DATRON         | SEE DRG           | A EA -   |          |         |
| Q218  | 230027-1 | TRAN JFET N-CHAN 60V   | DATRON         | SEE DRG           | A EA -   |          |         |
| Q219  | 230082   | TRAN MOSFET N-CHAN 60V | SILICONIX      | VN10LM            | EA -     |          |         |
| Q220  | 230082   | TRAN MOSFET N-CHAN 60V | SILICONIX      | VN10LM            | EA -     |          |         |
| Q221  | 230027-1 | TRAN JFET N-CHAN 60V   | DATRON         | SEE DRG           | A EA -   |          |         |
| Q222  | 250004   | TRAN PNP TO92          | NATIONAL       | 2N3906            | EA -     |          |         |
| Q223  | 230027-1 | TRAN JFET N-CHAN 60V   | DATRON         | SEE DRG           | A EA -   |          |         |
| Q224  | 240006   | TRAN NPN TO92          | MOTOROLA       | 2N3904            | EA -     |          |         |
| Q301  | 250009   | TRAN PNP TO92          | NATIONAL       | 2N5401            | EA -     |          |         |
| Q302  | 240009   | TRAN NPN TO18          | NATIONAL       | MPSL01/2N5550     | EA -     |          |         |

| DESIG | PART NO  | DESCRIPTION               | PRINC MANUF         | MANUF PART NUMBER | CLASS UM | QUANTITY | CHANGES |
|-------|----------|---------------------------|---------------------|-------------------|----------|----------|---------|
| Q303  | 239093-1 | TRAN JFET SET PN4117A X 4 | DATRON              | SEE DRG           | S4 1     |          |         |
| Q304  | 239093-1 | TRAN JFET SET PN4117A X 4 | DATRON              | SEE DRG           | S4 -     |          |         |
| Q305  | 239093-1 | TRAN JFET SET PN4117A X 4 | DATRON              | SEE DRG           | S4 -     |          |         |
| Q306  | 239093-1 | TRAN JFET SET PN4117A X 4 | DATRON              | SEE DRG           | S4 -     |          |         |
| Q307  | 230082   | TRAN MOSFET N-CHAN 60V    | SILICONIX           | VN10LM            | EA -     |          |         |
| Q308  | 230082   | TRAN MOSFET N-CHAN 60V    | SILICONIX           | VN10LM            | EA -     |          |         |
| Q309  | 230023   | TRAN JFET N CHAN DUAL     | SILICONIX           | U401              | EA 1     |          |         |
| Q310  | 230055   | TRAN JFET I LIM 430uA     | SILICONIX           | J502              | EA 2     |          |         |
| Q311  | 230055   | TRAN JFET I LIM 430uA     | SILICONIX           | J502              | EA -     |          |         |
| Q312  | 250027   | TRAN PNP DUAL             | MICRO POWER SYSTEMS | MP351             | A EA 1   |          |         |
| Q313  | 240009   | TRAN NPN TO18             | NATIONAL            | MPSL01/2N5550     | EA -     |          |         |
| Q314  | 250009   | TRAN PNP TO92             | NATIONAL            | 2N5401            | EA -     |          |         |
| Q315  | 250009   | TRAN PNP TO92             | NATIONAL            | 2N5401            | EA -     |          |         |
| Q316  | 240009   | TRAN NPN TO18             | NATIONAL            | MPSL01/2N5550     | EA -     |          |         |
| Q317  | 240009   | TRAN NPN TO18             | NATIONAL            | MPSL01/2N5550     | EA -     |          |         |
| Q318  | 250009   | TRAN PNP TO92             | NATIONAL            | 2N5401            | EA -     |          |         |
| Q401  | 250004   | TRAN PNP TO92             | NATIONAL            | 2N3906            | EA -     |          |         |
| Q402  | 240009   | TRAN NPN TO18             | NATIONAL            | MPSL01/2N5550     | EA -     |          |         |
| Q403  | 240006   | TRAN NPN TO92             | MOTOROLA            | 2N3904            | EA -     |          |         |
| Q404  | 250009   | TRAN PNP TO92             | NATIONAL            | 2N5401            | EA -     |          |         |
| Q405  | 250004   | TRAN PNP TO92             | NATIONAL            | 2N3906            | EA -     |          |         |
| Q406  | 230088   | TRAN JFET I LIM 1mA       | SILICONIX           | J505              | EA 2     |          |         |
| Q407  | 230088   | TRAN JFET I LIM 1mA       | SILICONIX           | J505              | EA -     |          |         |
| Q408  | 240006   | TRAN NPN TO92             | MOTOROLA            | 2N3904            | EA -     |          |         |
| Q409  | 250004   | TRAN PNP TO92             | NATIONAL            | 2N3906            | EA -     |          |         |
| Q501  | 250018   | TRAN PNP                  | MOTOROLA            | BC556             | EA 2     |          |         |
| Q502  | 250018   | TRAN PNP                  | MOTOROLA            | BC556             | EA -     |          |         |
| Q503  | 239084-1 | TRAN JFET SET J108 X 2    | DATRON              | SEE DRG           | S2 1     |          |         |
| Q504  | 240029   | TRAN NPN                  | MOTOROLA            | BC546             | EA 2     |          |         |
| Q505  | 239084-1 | TRAN JFET SET J108 X 2    | DATRON              | SEE DRG           | S2 -     |          |         |
| Q506  | 00000N   | NOT FITTED                |                     |                   | EA -     |          |         |
| Q507  | 230079   | TRAN JFET N CHAN DUAL     | MICRO-POWER SYSTEMS | MP845             | EA 1     |          |         |
| Q508  | 240029   | TRAN NPN                  | MOTOROLA            | BC546             | EA -     |          |         |
| Q701  | 240006   | TRAN NPN TO92             | MOTOROLA            | 2N3904            | EA -     |          |         |
| Q702  | 240009   | TRAN NPN TO18             | NATIONAL            | MPSL01/2N5550     | EA -     |          |         |
| Q801  | 230081   | TRAN MOSFET N-CHAN        | FERRANTI            | ZVN0106A          | A EA -   |          |         |
| Q802  | 230081   | TRAN MOSFET N-CHAN        | FERRANTI            | ZVN0106A          | A EA -   |          |         |
| Q803  | 240021   | TRAN NPN                  | NATIONAL            | BD135             | EA 1     |          |         |
| Q804  | 250013   | TRAN PNP                  | NATIONAL            | BD136             | EA 1     |          |         |
| Q806  | 250011   | TRAN PNP TO92             | NATIONAL            | BC327             | EA 1     |          |         |
| Q807  | 240014   | TRAN NPN TO92             | NATIONAL            | BC337             | EA 1     |          |         |
| M201  | 260075   | IC LIN V COMP DUAL        | NATIONAL            | LM2903N           | EA 1     |          |         |
| M202  | 280167   | IC DIG SWITCH QUAD CMOS   | SILICONIX           | DG211CJ           | EA 7     |          |         |
| M203  | 260090   | IC LIN OP AMP             | LINEAR TECHNOLOGY   | LT1008CN8         | EA 3     |          |         |
| M204  | 260090   | IC LIN OP AMP             | LINEAR TECHNOLOGY   | LT1008CN8         | EA -     |          |         |

| DESIG | PART NO  | DESCRIPTION               | PRINC MANUF       | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|---------------------------|-------------------|-------------------|-------|----|----------|---------|
| M301  | 280011   | IC DIG FLIP/FLOP D.DUAL   | MOTOROLA          | MC14013BCP        |       | EA | 1        |         |
| M302  | 280025   | IC DIG SWITCH QUAD CMOS   | MOTOROLA          | MC14066BCP        |       | EA | 1        |         |
| M303  | 260065   | IC LIN OP AMP             | PMI               | OP27FZ            |       | EA | 2        |         |
| M401  | 280150   | IC DIG MULTIPLEXER 8-CHAN | SILICONIX         | DG508ACJ          |       | EA | 2        |         |
| M402  | 260082   | IC LIN OP AMP CHOPPER     | LINEAR TECHNOLOGY | LTC1052CN8        |       | EA | 4        |         |
| M403  | 260082   | IC LIN OP AMP CHOPPER     | LINEAR TECHNOLOGY | LTC1052CN8        |       | EA | -        |         |
| M404  | 260083   | IC LIN OP AMP CHOPPER     | LINEAR TECHNOLOGY | LTC1052CN         |       | EA | 2        |         |
| M405  | 280167   | IC DIG SWITCH QUAD CMOS   | SILICONIX         | DG211CJ           |       | EA | -        |         |
| M406  | 260082   | IC LIN OP AMP CHOPPER     | LINEAR TECHNOLOGY | LTC1052CN8        |       | EA | -        |         |
| M407  | 260082   | IC LIN OP AMP CHOPPER     | LINEAR TECHNOLOGY | LTC1052CN8        |       | EA | -        |         |
| M408  | 400763-1 | ASSY REFERENCE MODULE     | DATRON            | SEE DRG           |       | EA | 2        |         |
| M409  | 400763-1 | ASSY REFERENCE MODULE     | DATRON            | SEE DRG           |       | EA | -        |         |
| M501  | 00000N   | NOT FITTED                |                   |                   |       | EA | -        |         |
| M502  | 280167   | IC DIG SWITCH QUAD CMOS   | SILICONIX         | DG211CJ           |       | EA | -        |         |
| M503  | 280151   | IC DIG SWITCH CMOS        | SILICONIX         | DG308ABK          |       | EA | 2        |         |
| M504  | 280151   | IC DIG SWITCH CMOS        | SILICONIX         | DG308ABK          |       | EA | -        |         |
| M505  | 280167   | IC DIG SWITCH QUAD CMOS   | SILICONIX         | DG211CJ           |       | EA | -        |         |
| M506  | 260065   | IC LIN OP AMP             | PMI               | OP27FZ            |       | EA | -        |         |
| M507  | 260083   | IC LIN OP AMP CHOPPER     | LINEAR TECHNOLOGY | LTC1052CN         |       | EA | -        |         |
| M508  | 00000N   | NOT FITTED                |                   |                   |       | EA | -        |         |
| M509  | 280129   | IC DIG ULA A-D            | PLESSEY           | CLA3722           |       | EA | 1        |         |
| M510  | 280106   | IC DIG HEX LEVEL SHIFTER  | MOTOROLA          | MC14504BCP        |       | EA | 2        |         |
| M511  | 260080   | IC LIN V COMP             | NATIONAL          | LM311N            |       | EA | 1        |         |
| M601  | 280167   | IC DIG SWITCH QUAD CMOS   | SILICONIX         | DG211CJ           |       | EA | -        |         |
| M603  | 260090   | IC LIN OP AMP             | LINEAR TECHNOLOGY | LT1008CN8         |       | EA | -        |         |
| M604  | 260099   | IC LIN OP AMP             | MOTOROLA          | MC34181           |       | EA | 1        |         |
| M606  | 280093   | IC DIG OR EXCL QUAD       | MOTOROLA          | MC14070BCP        |       | EA | 1        |         |
| M607  | 280023   | IC DIG NOR2 QUAD          | MOTOROLA          | MC14001UBCP       |       | EA | 1        |         |
| M608  | 280167   | IC DIG SWITCH QUAD CMOS   | SILICONIX         | DG211CJ           |       | EA | -        |         |
| M609  | 280167   | IC DIG SWITCH QUAD CMOS   | SILICONIX         | DG211CJ           |       | EA | -        |         |
| M610  | 280008   | IC DIG QUAD 2 I/P NAND    | MOTOROLA          | MC14011BCP        |       | EA | 1        |         |
| M611  | 280150   | IC DIG MULTIPLEXER 8-CHAN | SILICONIX         | DG508ACJ          |       | EA | -        |         |
| M701  | 220041   | OPTO 3KV DUAL             | H.P.              | HCPL-2631         | A     | EA | 3        |         |
| M702  | 220027   | OPTO HIGH CMR             | H.P.              | HCPL-2601         |       | EA | 1        |         |
| M703  | 220041   | OPTO 3KV DUAL             | H.P.              | HCPL-2631         | A     | EA | -        |         |
| M704  | 220041   | OPTO 3KV DUAL             | H.P.              | HCPL-2631         | A     | EA | -        |         |
| M705  | 220030   | OPTO HI SPEED             | HP                | 6N136             |       | EA | 1        |         |
| M706  | 280152   | IC DIG SCHMIDT NAND2 QUAD | MOTOROLA          | MC14093BCP        |       | EA | 1        |         |
| M707  | 280068   | IC DIG MONOSTABLE DUAL    | MOTOROLA          | MC14538BCP        |       | EA | 1        |         |
| M708  | 280137   | IC DIG DRIVER OCT 3S HCT  | SIGNETICS         | PC74HCT244P       |       | EA | 1        |         |
| M801  | 280132   | IC DIG ULA SERIAL TX/RX   | PLESSEY           | CLA3106           |       | EA | 3        |         |
| M802  | 280132   | IC DIG ULA SERIAL TX/RX   | PLESSEY           | CLA3106           |       | EA | -        |         |
| M803  | 280132   | IC DIG ULA SERIAL TX/RX   | PLESSEY           | CLA3106           |       | EA | -        |         |
| M804  | 280106   | IC DIG HEX LEVEL SHIFTER  | MOTOROLA          | MC14504BCP        |       | EA | -        |         |
| M805  | 280149   | IC DIG DECODER 2-4 DUAL   | MOTOROLA          | MC14555           |       | EA | 1        |         |

| DESIG | PART NO  | DESCRIPTION                  | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|------------------------------|-------------|-------------------|-------|----|----------|---------|
| M806  | 280143-1 | IC DIG BUFFER OCT 3S         | SIGNETICS   | SEE DRG           | A     | EA | 2        |         |
| M807  | 280143-1 | IC DIG BUFFER OCT 3S         | SIGNETICS   | SEE DRG           | A     | EA | -        |         |
| M808  | 260098   | IC LIN OP AMP                | NATIONAL    | LM3441CN          | A     | EA | 1        |         |
| M901  | 260094   | IC LIN REG +15V 1A           | SGS         | L7915ACV          | A     | EA | 1        |         |
| M902  | 260095   | IC LIN REG -15V 1A           | SGS         | L7915ACV          | A     | EA | 1        |         |
| M903  | 260037   | IC LIN REG 1.2-37V 1A POS    | NATIONAL    | LM317T            |       | EA | 1        |         |
| M904  | 260038   | IC LIN REG 1.2-37V 1A NEG    | NATIONAL    | LM337T            |       | EA | 1        |         |
| M905  | 260097   | IC LIN REG +5V 1A            | SGS         | L7805ACV          | A     | EA | 1        |         |
| T601  | 350001-3 | TRANSF SELP CAL 1281         | SIGA        | SEE DRG           |       | EA | 1        |         |
| RL101 | 330039   | RELAY 4PNO                   | SDS         | S4-L-6V           |       | EA | 6        |         |
| RL102 | 330039   | RELAY 4PNO                   | SDS         | S4-L-6V           |       | EA | -        |         |
| RL103 | 330039   | RELAY 4PNO                   | SDS         | S4-L-6V           |       | EA | -        |         |
| RL104 | 330039   | RELAY 4PNO                   | SDS         | S4-L-6V           |       | EA | -        |         |
| RL105 | 330039   | RELAY 4PNO                   | SDS         | S4-L-6V           |       | EA | -        |         |
| RL106 | 330039   | RELAY 4PNO                   | SDS         | S4-L-6V           |       | EA | -        |         |
| RL107 | 330041   | RELAY 2P 2W                  | SDS         | DS2E-SL-6V        |       | EA | 2        |         |
| RL108 | 330038   | RELAY 2PNO 2PNC              | SDS         | S2-L-6V           |       | EA | 2        |         |
| RL201 | 330038   | RELAY 2PNO 2PNC              | SDS         | S2-L-6V           |       | EA | -        |         |
| RL202 | 330030   | RELAY 4PNO                   | SDS         | S4-24V            |       | EA | 1        |         |
| RL203 | 330042-2 | RELAY 3PNO 1PNC              | SDS         | S3-L-6V           |       | EA | 1        |         |
| RL401 | 330041   | RELAY 2P 2W                  | SDS         | DS2E-SL-6V        |       | EA | -        |         |
| L101  | 370032-1 | CHOKE COM MODE RM7           | SIGA        | SEE DRG           |       | EA | 1        |         |
| L102  | 370031-1 | CHOKE COM MODE RM10          | SIGA        | SEE DRG           |       | EA | 2        |         |
| L103  | 370031-1 | CHOKE COM MODE RM10          | SIGA        | SEE DRG           |       | EA | -        |         |
| PL100 | 604084   | PLUG PCB 6-WAY .1"           | MOLEX       | 22-10-2061        |       | EA | 1        |         |
| PL101 | 604046   | PLUG PCB 3-WAY .1"           | MOLEX       | 22-10-2031        |       | EA | 4        |         |
| PL102 | 604056   | PLUG PCB 4-WAY .1"           | MOLEX       | 22-10-2041        |       | EA | 1        |         |
| PL103 | 604086   | PLUG PCB 12-WAY .1"          | MOLEX       | 22-29-2121        |       | EA | 1        |         |
| PL105 | 604076   | PLUG PCB 16-WAY .1"x.1" GRID | 3M          | 3599-6002 UN      |       | EA | 3        |         |
| PL107 | 604076   | PLUG PCB 16-WAY .1"x.1" GRID | 3M          | 3599-6002 UN      |       | EA | -        |         |
| PL109 | 604076   | PLUG PCB 16-WAY .1"x.1" GRID | 3M          | 3599-6002 UN      |       | EA | -        |         |
| PL111 | 604085   | PLUG PCB 2-WAY .1"           | MOLEX       | 22-29-2021        |       | EA | 3        |         |
| PL112 | 604075   | PLUG PCB 6-WAY .1"           | MOLEX       | 22-29-2061        |       | EA | 3        |         |
| PL121 | 604074   | PLUG PCB 3-WAY .1"           | MOLEX       | 22-29-3031        |       | EA | 3        |         |
| PL122 | 604033   | PLUG PCB 4-WAY .1"           | MOLEX       | 22-29-2041        |       | EA | 9        |         |
| PL130 | 604075   | PLUG PCB 6-WAY .1"           | MOLEX       | 22-29-2061        |       | EA | -        |         |
| PL131 | 604074   | PLUG PCB 3-WAY .1"           | MOLEX       | 22-29-3031        |       | EA | -        |         |
| PL132 | 604033   | PLUG PCB 4-WAY .1"           | MOLEX       | 22-29-2041        |       | EA | -        |         |
| PL140 | 604075   | PLUG PCB 6-WAY .1"           | MOLEX       | 22-29-2061        |       | EA | -        |         |
| PL141 | 604074   | PLUG PCB 3-WAY .1"           | MOLEX       | 22-29-3031        |       | EA | -        |         |
| PL142 | 604033   | PLUG PCB 4-WAY .1"           | MOLEX       | 22-29-2041        |       | EA | -        |         |
| PL143 | 604085   | PLUG PCB 2-WAY .1"           | MOLEX       | 22-29-2021        |       | EA | -        |         |
| PL150 | 604033   | PLUG PCB 4-WAY .1"           | MOLEX       | 22-29-2041        |       | EA | -        |         |
| PL151 | 604033   | PLUG PCB 4-WAY .1"           | MOLEX       | 22-29-2041        |       | EA | -        |         |
| PL152 | 604033   | PLUG PCB 4-WAY .1"           | MOLEX       | 22-29-2041        |       | EA | -        |         |



| DESIG | PART NO  | DESCRIPTION             | PRINC MANUF       | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|-------------------------|-------------------|-------------------|-------|----|----------|---------|
| PL160 | 604033   | PLUG PCB 4-WAY .1"      | MOLEX             | 22-29-2041        | EA    | -  |          |         |
| PL161 | 604033   | PLUG PCB 4-WAY .1"      | MOLEX             | 22-29-2041        | EA    | -  |          |         |
| PL162 | 604033   | PLUG PCB 4-WAY .1"      | MOLEX             | 22-29-2041        | EA    | -  |          |         |
| W901  | 209014   | DIODE BR 1A5 400V       | MICRO-ELECTRONICS | W004              | EA    | 2  |          |         |
| W902  | 209014   | DIODE BR 1A5 400V       | MICRO-ELECTRONICS | W004              | EA    | -  |          |         |
| E1    | 920205   | BEAD FERRITE            | PHILIPS           | FX4017            | EA    | 1  |          |         |
| TP101 | 540002   | WIRE 1/.7 TINNED COPPER | BS4109            | 22SWG             | AR    | 4  |          |         |
| TP102 | 540002   | WIRE 1/.7 TINNED COPPER | BS4109            | 22SWG             | AR    | -  |          |         |
| TP103 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | 24 |          |         |
| TP201 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP202 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP203 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP401 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP402 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP403 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP404 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP405 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP406 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP501 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP502 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP504 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP601 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP602 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP603 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TF701 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP702 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP801 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP901 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP902 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP903 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP904 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP905 | 620007   | TEST POINT TERMINAL     | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| DN801 | 400695-1 | ASSY COM CATHODE DIODE  | DATRON            | SEE DRG           | EA    | 2  |          |         |
| DN802 | 400696-1 | ASSY COM ANODE DIODE    | DATRON            | SEE DRG           | EA    | 2  |          |         |
| DN803 | 400695-1 | ASSY COM CATHODE DIODE  | DATRON            | SEE DRG           | EA    | -  |          |         |
| DN804 | 400696-1 | ASSY COM ANODE DIODE    | DATRON            | SEE DRG           | EA    | -  |          |         |
| X501  | 800032   | CRYSTAL OSC 4.91520 MHZ | EURO-QUARTZ       | EQX0 1100HC       | EA    | 1  |          |         |
| LK501 | 540002   | WIRE 1/.7 TINNED COPPER | BS4109            | 22SWG             | AR    | -  |          |         |
| LK502 | 540002   | WIRE 1/.7 TINNED COPPER | BS4109            | 22SWG             | AR    | -  |          |         |
| LK701 | 604085   | PLUG PCB 2-WAY .1"      | MOLEX             | 22-29-2021        | EA    | -  |          |         |
| LK702 | 604046   | PLUG PCB 3-WAY .1"      | MOLEX             | 22-10-2031        | EA    | -  |          |         |
| LK703 | 604046   | PLUG PCB 3-WAY .1"      | MOLEX             | 22-10-2031        | EA    | -  |          |         |
| LK704 | 604046   | PLUG PCB 3-WAY .1"      | MOLEX             | 22-10-2031        | EA    | -  |          |         |
|       | 400758-2 | ASSY CABLE SIG 1P       | DATRON            | SEE DRG           | EA    | 1  |          |         |
|       | 410393-1 | PCB DC 1281             |                   | SEE DRG           | EA    | 1  |          |         |

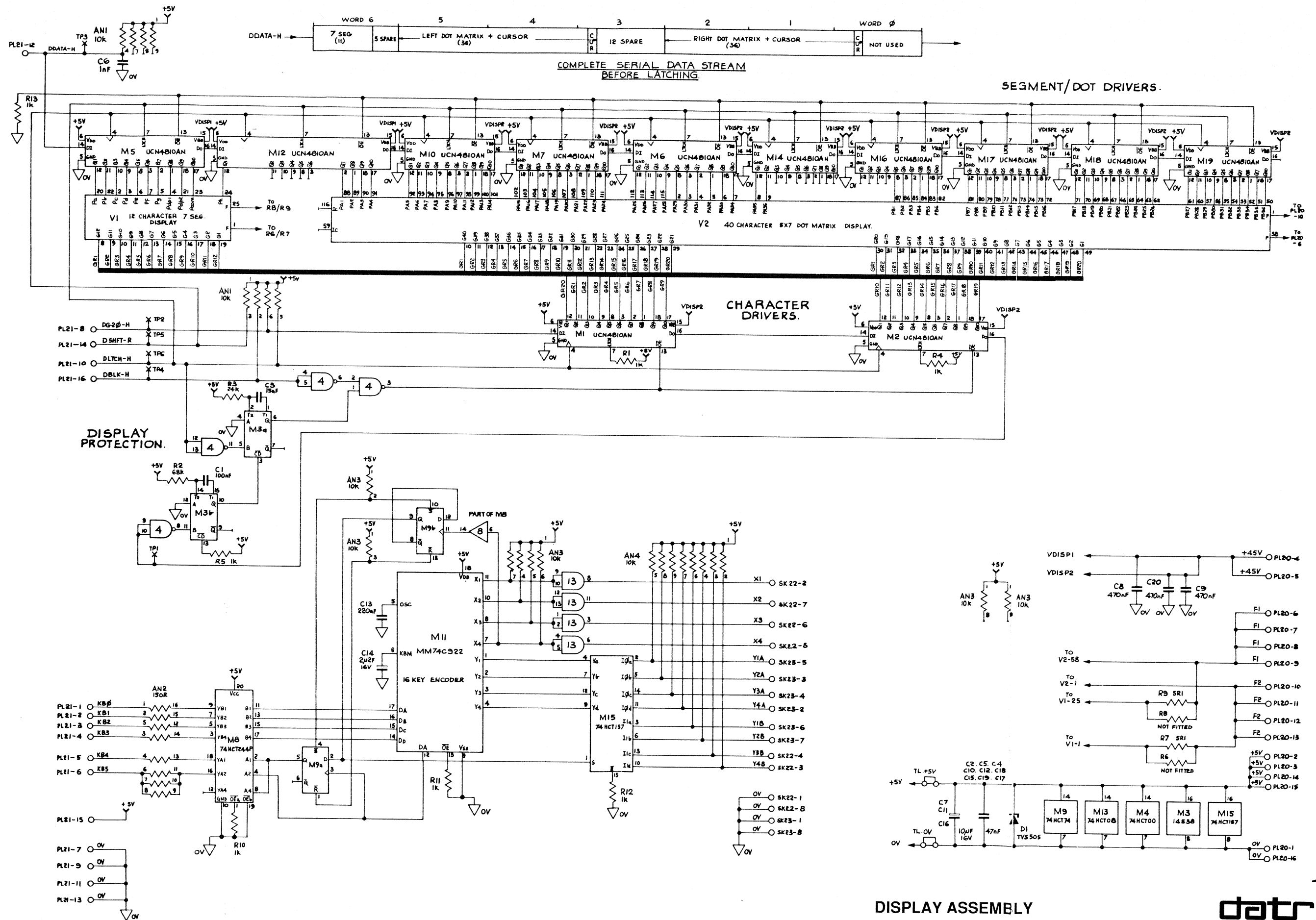
| DESIG | PART NO  | DESCRIPTION                  | PRINC MANUF          | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|------------------------------|----------------------|-------------------|-------|----|----------|---------|
|       | 602001   | TERMINAL FSU                 | MOLEX                | 02-04-5114        |       |    | EA 8     |         |
|       | 605050   | SOCKET PCB 40-WAY DIL        | JERMYN               | J23-18040         | A     |    | EA 1     |         |
|       | 605059   | SOCKET PCB 8-WAY DIL         | JERMYN               | J23-18008         | A     |    | EA 10    |         |
|       | 605060   | SOCKET PCB 14-WAY DIL        | JERMYN               | J23-18014         | A     |    | EA 6     |         |
|       | 605061   | SOCKET PCB 16-WAY DIL        | JERMYN               | J23-18016         | A     |    | EA 14    |         |
|       | 605062   | SOCKET PCB 18-WAY DIL        | JERMYN               | J23-18018         | A     |    | EA 3     |         |
|       | 605070   | SOCKET PCB 20-WAY DIL        | JERMYN               | J23-18020         | A     |    | EA 3     |         |
|       | 605127   | SOCKET LINK 2-WAY 1" BLK     | ASSMANN              | AKSPL-G           |       |    | EA 3     |         |
|       | 611016   | SCREW M3 X 8 POZIPAN SZP     |                      |                   |       |    | EA 2     |         |
|       | 611028   | SCREW M4 X 8 POZIPAN SZP     |                      |                   |       |    | EA 1     |         |
|       | 612029-1 | STANDOFF M3 X 12             | DATRON               | SEE DRG           |       |    | EA 1     |         |
|       | 613005   | WASHER M3 INT SHAKEPROOF     |                      |                   |       |    | EA 2     |         |
|       | 613052   | WASHER M4 WAVY SS            |                      |                   |       |    | EA 1     |         |
|       | 615002   | NUT M3 FULL SZP              |                      |                   |       |    | EA 2     |         |
|       | 617014   | NYLATCH PLUNGER 1/4"         | HARTWELL (C.J.FOX)   | HN4P-43           |       |    | EA 11    |         |
|       | 617015   | NYLATCH GROMMET 1/4"         | HARTWELL (C.J.FOX)   | HN4G-43           |       |    | EA 11    |         |
|       | 620005   | CLOVERLEAF LARGE PTFE        | SEAELECTRO           | 011-6809-040599   | A     |    | EA 5     |         |
|       | 630024   | BEAD CERAMIC 16 SWG          | PARK ROYAL PORCELAIN | No2               |       |    | EA 16    |         |
|       | 630036   | BEAD CERAMIC 18 SWG          | PARK ROYAL PORCELAIN | No1               |       |    | EA 6     |         |
|       | 630243   | BEAD GLASS 2.4 X 0.81 X 1.8  | MANSOL (PREFORMS) LT | M5363B/3          |       |    | EA 84    |         |
|       | 920105-1 | HEATSINK TO-202              | AAVID                | SEE DRG           |       |    | EA 2     |         |
|       | 540002   | WIRE 1/.7 TINNED COPPER      | BS4109               | 22SWG             | AR    | -  |          |         |
|       | 590004   | SLEEVE PTFE 1mm BLK          | HELLERMAN            | FE10              | AR    | -  |          |         |
|       | 540006   | WIRE 1/.4 BLACK PTFE 250V    | BSG210               | TYPE A            | AR    | -  |          |         |
|       | 540016   | WIRE 1/.25 SILVER PL. COPPER |                      |                   | AR    | -  |          |         |
|       | 540017   | WIRE 1/.25 SILVER PL. COPPER |                      |                   | AR    | -  |          |         |
|       | 620003   | SOLDER PIN                   | HARWIN               | H2105A01          |       |    | EA 1     |         |
|       | 400797-1 | ASSY PCB DC PIGGYBACK 1281   | DATRON               | SEE DRG           |       |    | EA 1     |         |
|       | 400815-1 | ASSY PCB DC CLOCK 1281       | DATRON               | SEE DRG           |       |    | EA 1     |         |
|       | 590006   | SLEEVE HS. 2.4mm YLW.        | R. S. COMPONENTS     | 399-495           |       |    | AR 15    |         |
|       | 590031   | SLEEVE HS 3.2mm YLW          | R. S. COMPONENTS     | 399-502           |       |    | AR 30    |         |
|       | 560002   | CABLE AX 2.54mm 7/34AWG      | MIL-C17D             | RG174U            |       |    | MM 75    |         |
|       | 512111   | WIRE 7/.2 PTFE 1KV BRN       | BSG210               | TYPE C            |       |    | AR 1     |         |
|       | 590029   | SLEEVE HS 9.0mm BLK          | HELLERMAN            | SFM9-3BK          |       |    | AR 11    |         |
|       | 630331   | PAD 9/16 SOLDER MASK         | W. H. BRADY          | CMC5625           |       |    | EA 3     |         |

End



A schematic diagram of a two-wire transmission line. Two horizontal lines represent the main transmission lines. A vertical line, representing a shunt load, connects the two horizontal lines. This vertical line has a circle with the number '8' at the top and a circle with the number '2' at the bottom. An arrow points from the top circle (8) towards the junction where the vertical line meets the top horizontal line.





# 1281 DISPLAY ASSEMBLY

Display Driver

Drawing No. 430739

Sheet 1 of 1

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| DESIGNATOR | DATRON<br>PART No. | DESCRIPTION             | PRINCIPAL<br>MANUFACTURER | MANUFACTURER'S<br>PART No. | No. USED<br>Per Assy. |
|------------|--------------------|-------------------------|---------------------------|----------------------------|-----------------------|
| R1         | 000102             | 1k0 5% 1/4W CARBON      |                           |                            | 7                     |
| R2         | 000683             | 68k 5% 1/4W CARBON      |                           |                            | 1                     |
| R3         | 000243             | 24k 5% 1/4W CARBON      |                           |                            | 1                     |
| R4         | 000102             | 1k0 5% 1/4W CARBON      |                           |                            | -                     |
| R5         | 000102             | 1k0 5% 1/4W CARBON      |                           |                            | -                     |
| R6         |                    | NOT USED                |                           |                            | -                     |
| R7         | 000518             | 5R1 5% 1/4W CARBON      |                           |                            | 2                     |
| R8         |                    | NOT USED                |                           |                            | -                     |
| R9         | 000518             | 5R1 5% 1/4W CARBON      |                           |                            | -                     |
| R10        | 000102             | 1k0 5% 1/4W CARBON      |                           |                            | -                     |
| R11        | 000102             | 1k0 5% 1/4W CARBON      |                           |                            | -                     |
| R12        | 000102             | 1k0 5% 1/4W CARBON      |                           |                            | -                     |
| R13        | 000102             | 1k0 5% 1/4W CARBON      |                           |                            | -                     |
|            |                    |                         |                           |                            |                       |
|            |                    |                         |                           |                            |                       |
|            |                    |                         |                           |                            |                       |
|            |                    |                         |                           |                            |                       |
|            |                    |                         |                           |                            |                       |
|            |                    |                         |                           |                            |                       |
| AN1        | 090163             | 10k x 8 2% SIL NETWORK  | DUBILIER                  | EXB EQ8 10K                | 3                     |
| AN2        | 090153             | 150R x 8 2% DIL NETWORK | AB                        | 761-3-150R                 | 1                     |
| AN3        | 090163             | 10k x 8 2% SIL NETWORK  | DUBILIER                  | EXB EQ8 10K                | -                     |
| AN4        | 090163             | 10k x 8 2% SIL NETWORK  | DUBILIER                  | EXB EQ8 10K                | -                     |

NOTES.

SEE SHEET 1 FOR LATEST ISSUE

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TITLE

1281 DISPLAY PCB. ASSY.

DRAWING NUMBER

400739

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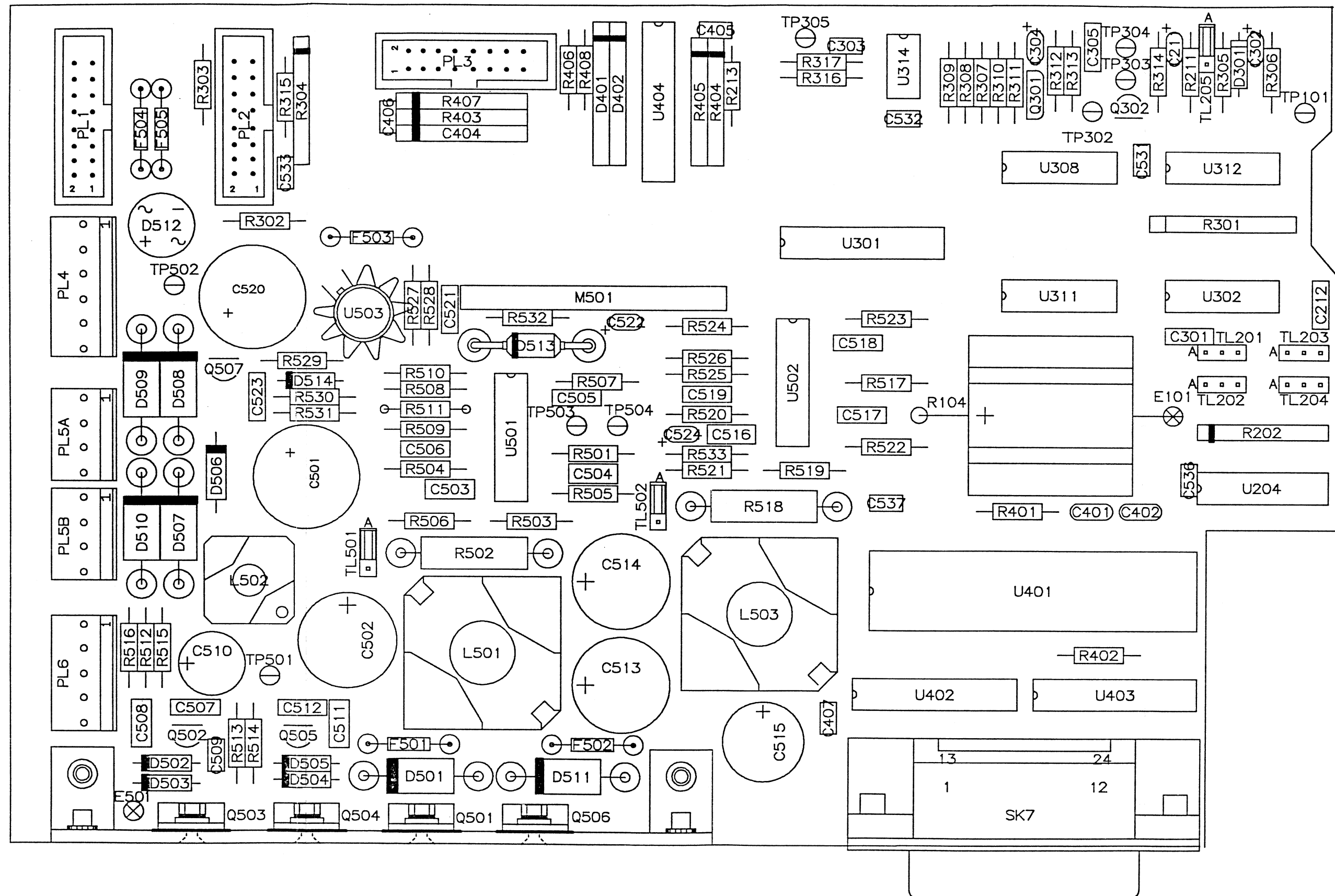
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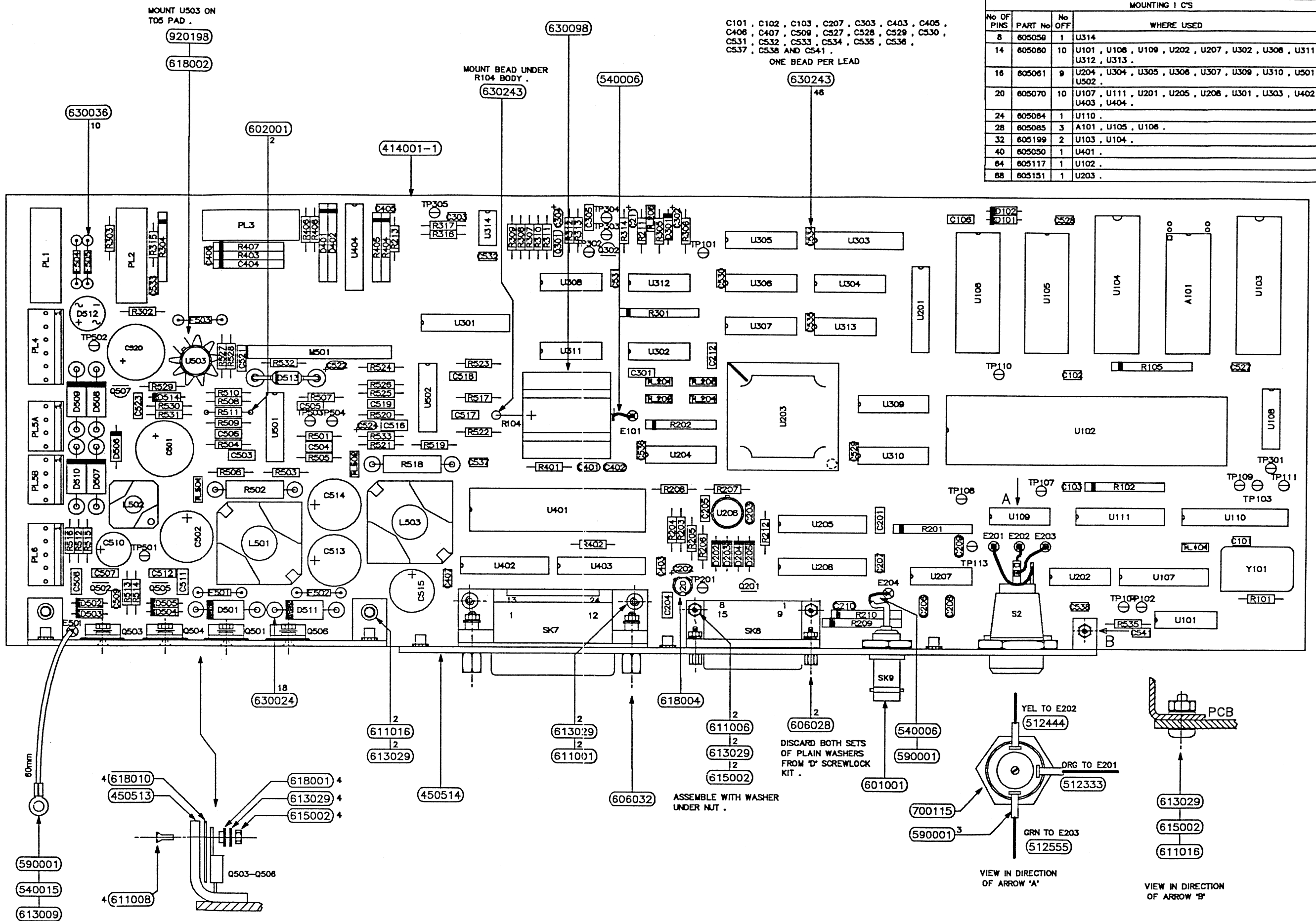


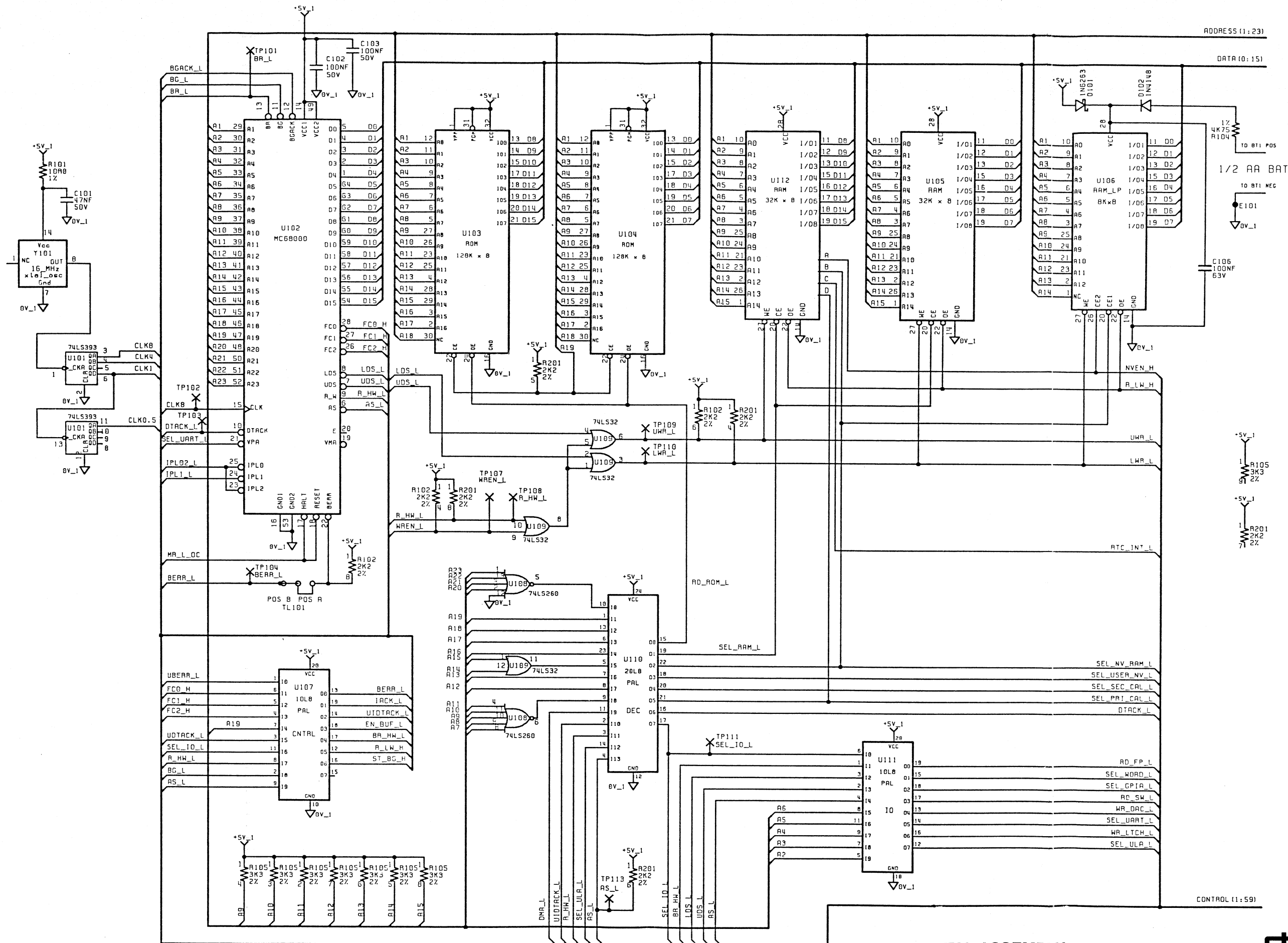








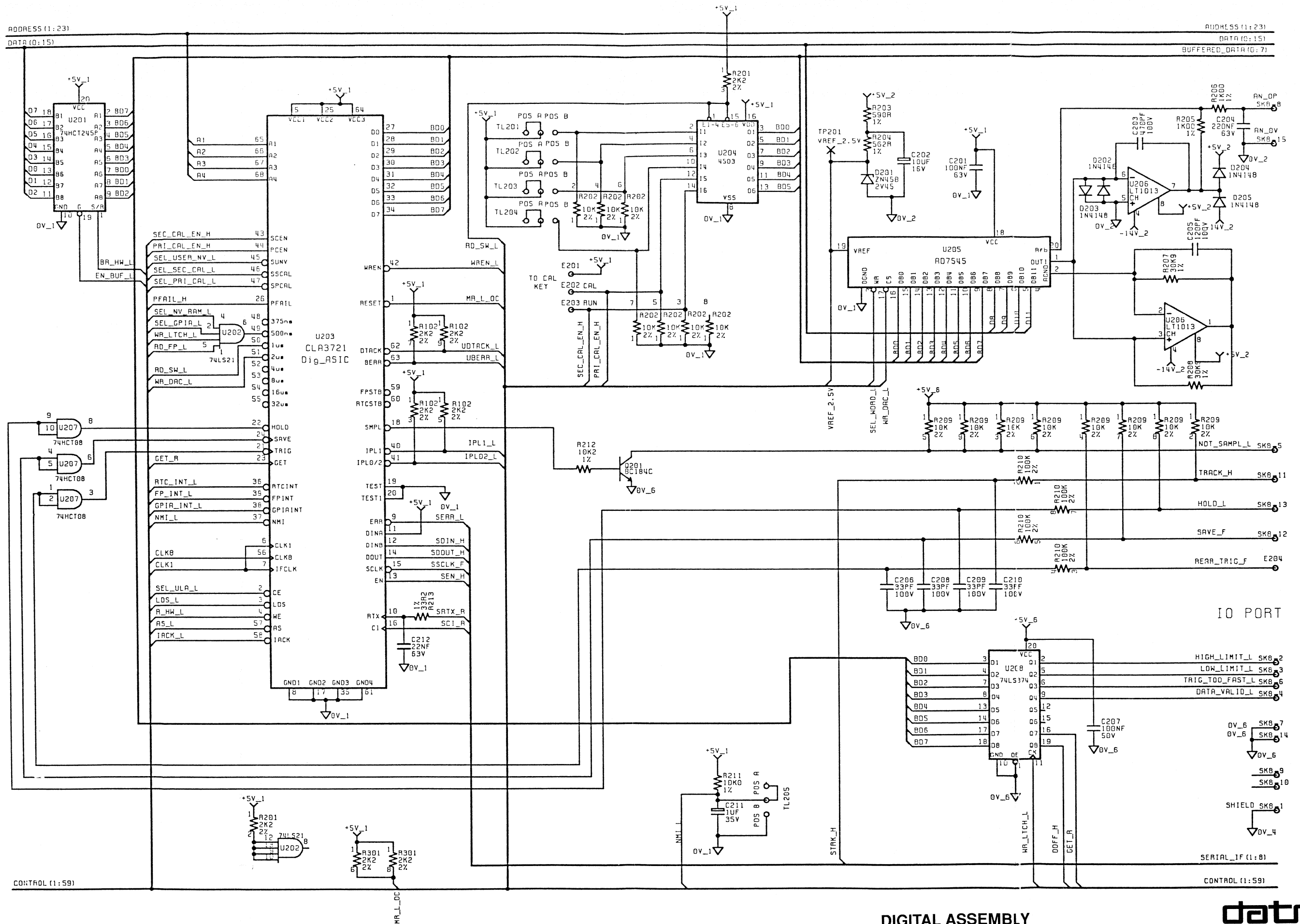




**DIGITAL ASSEMBLY**  
 Processor, Address Decoding and Memory  
 Drawing No. DC400901 Sheet 1 of 5

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DIGITAL ASSEMBLY

ASIC and I/O

Drawing No. DC400901

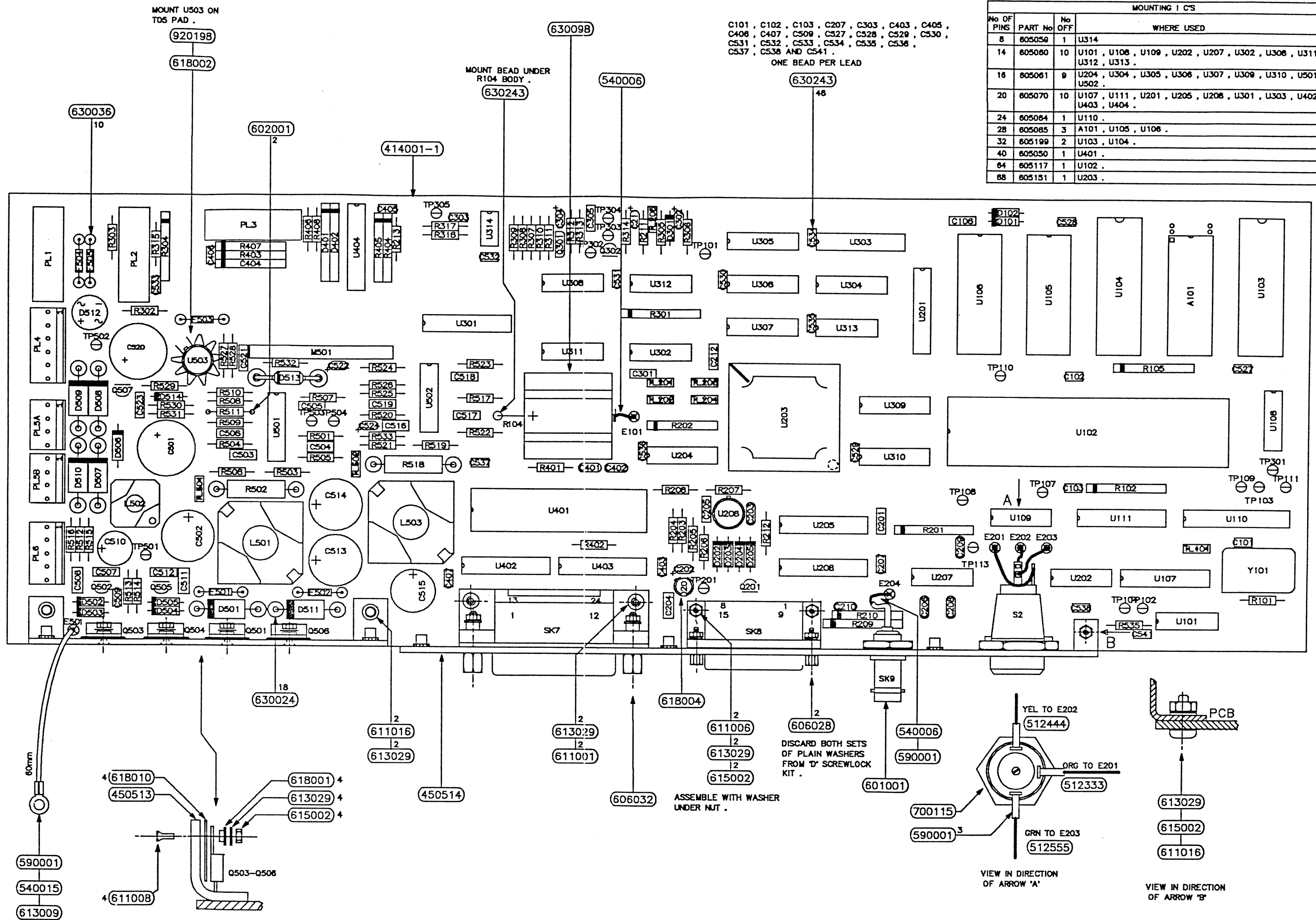
Sheet 2 of 5

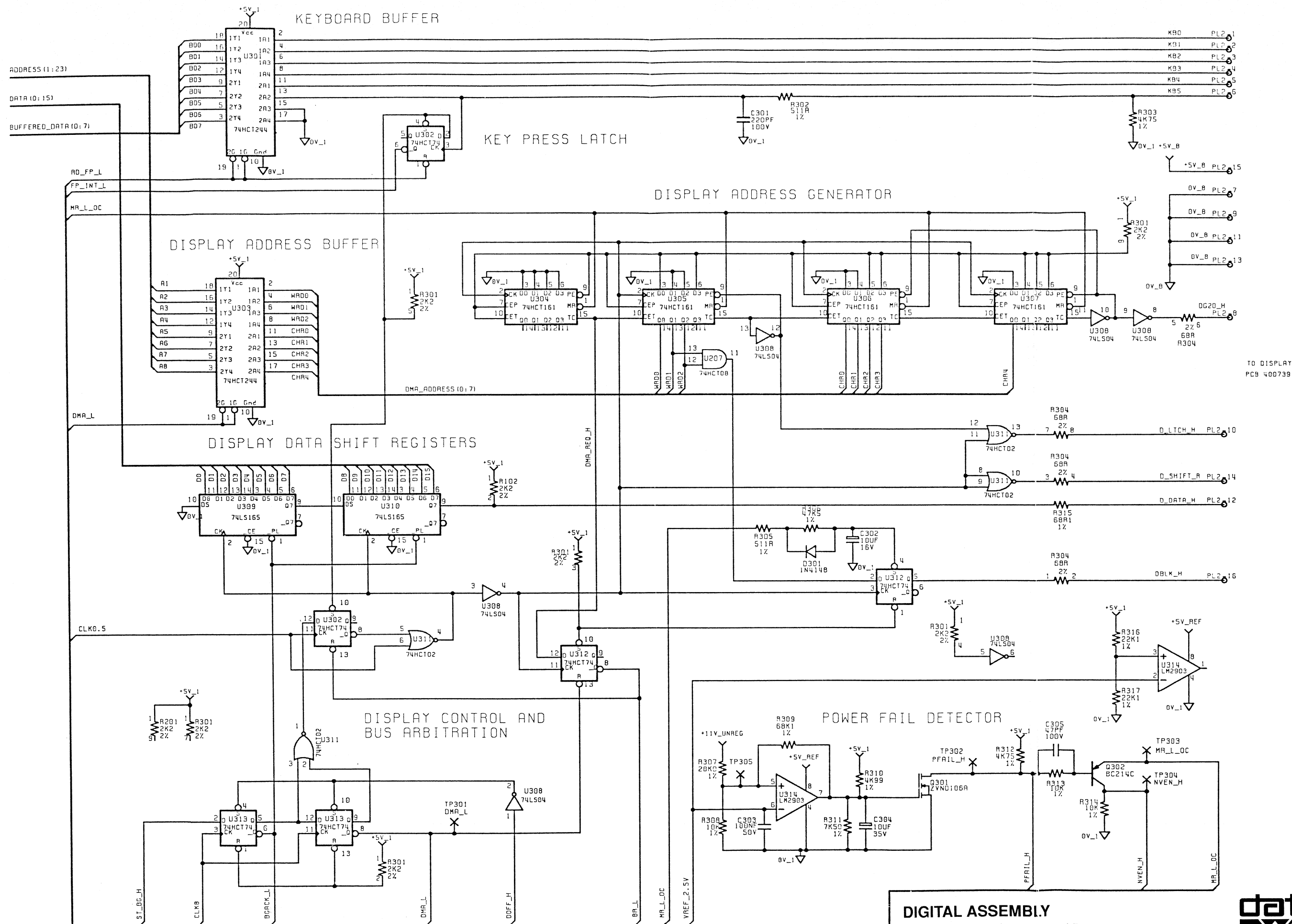
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11.4-3







# DIGITAL ASSEMBLY

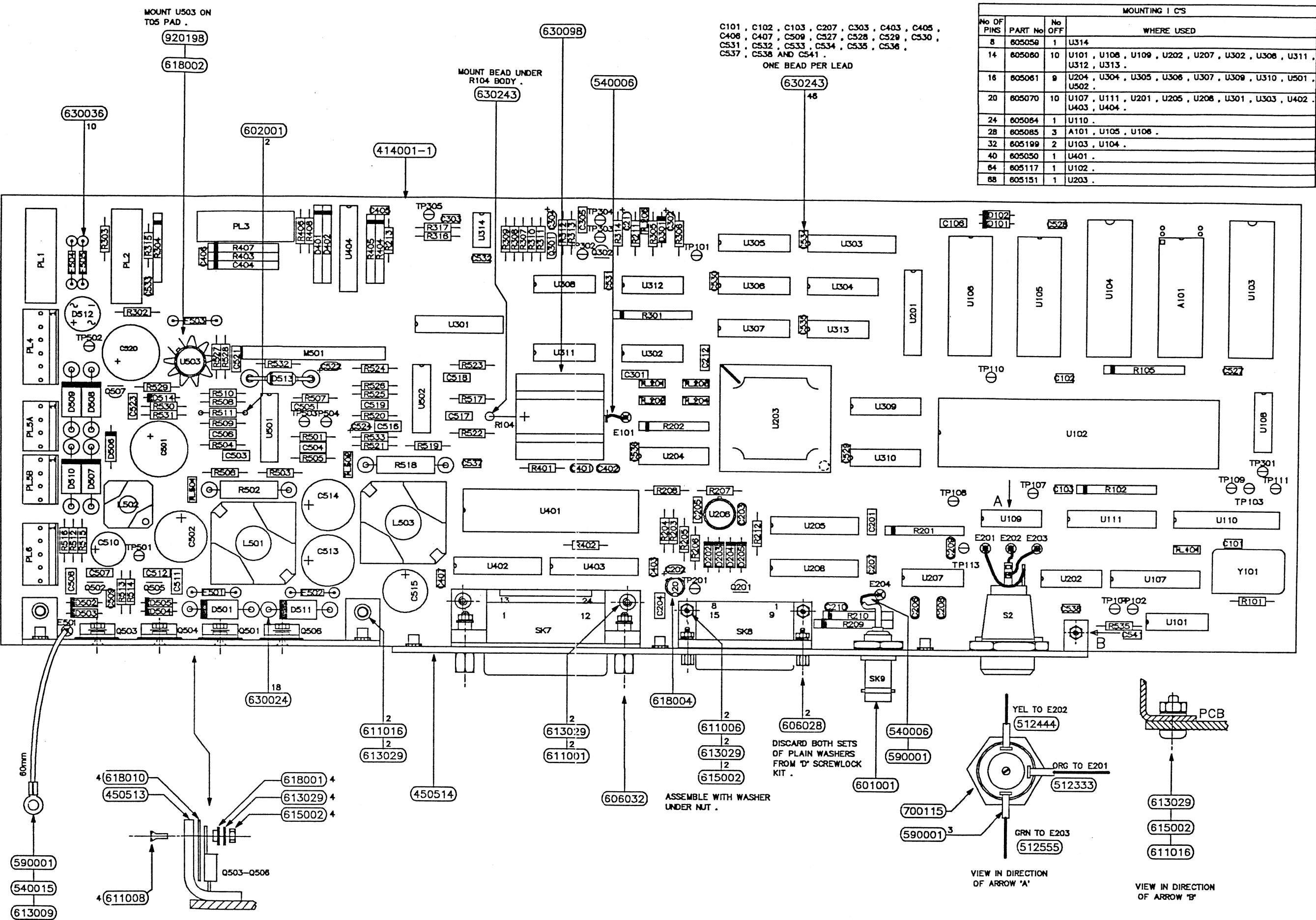
Keyboard/Display Interface and Power Fail Detector

Drawing No. DC400901 Sheet 3 of 5



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DIGITAL ASSEMBLY

Drawing No. DA400901 Sheet 1 of 3  
N.B. expanded versions are on Sheets 2 and 3 (page 11.4-1)

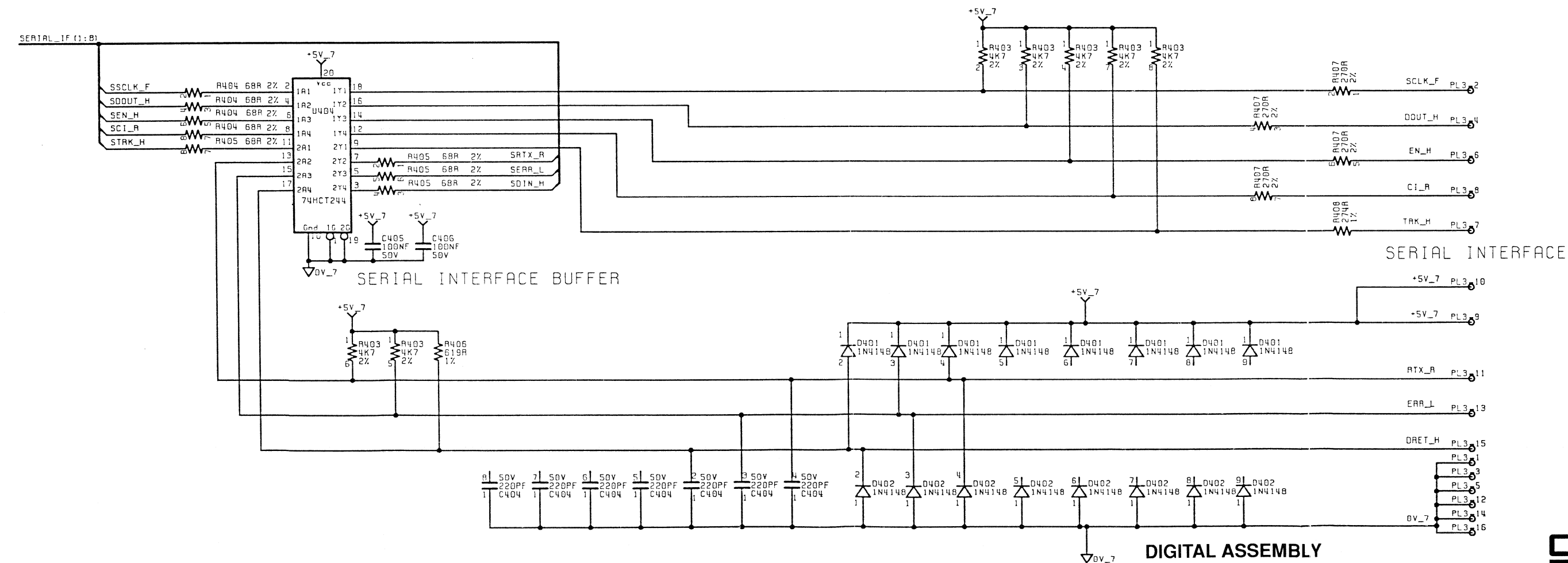
ADDRESS (1:23)

BUFFERED\_DATA (0:7)

## IEEE CONTROLLER &amp; BUFFERS

CONTROL (1:59)

SERIAL\_IF (1:8)



DIGITAL ASSEMBLY

IEEE Interface and Serial Interface

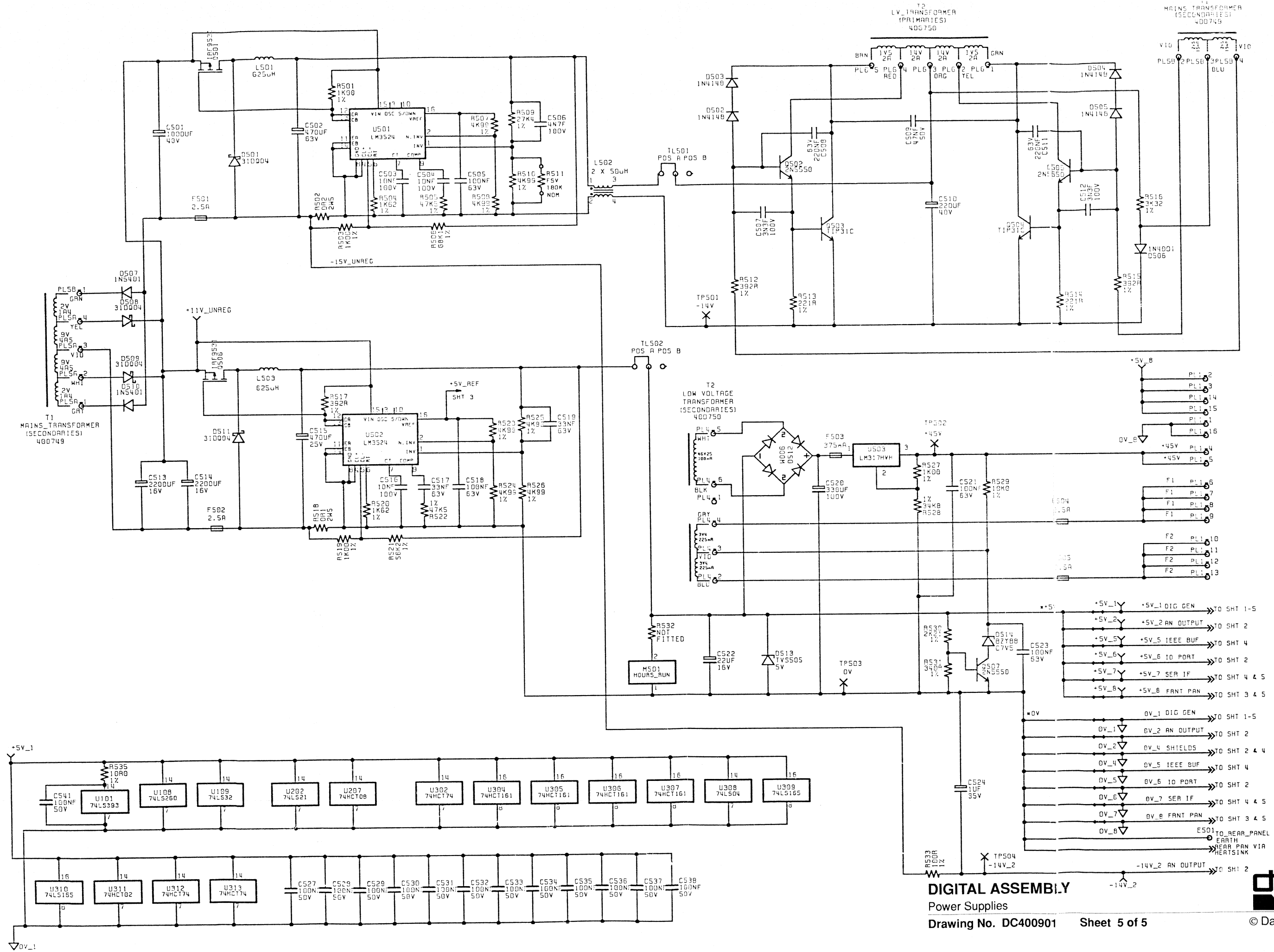
Drawing No. DC400901

Sheet 4 of 5

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Power Supplies

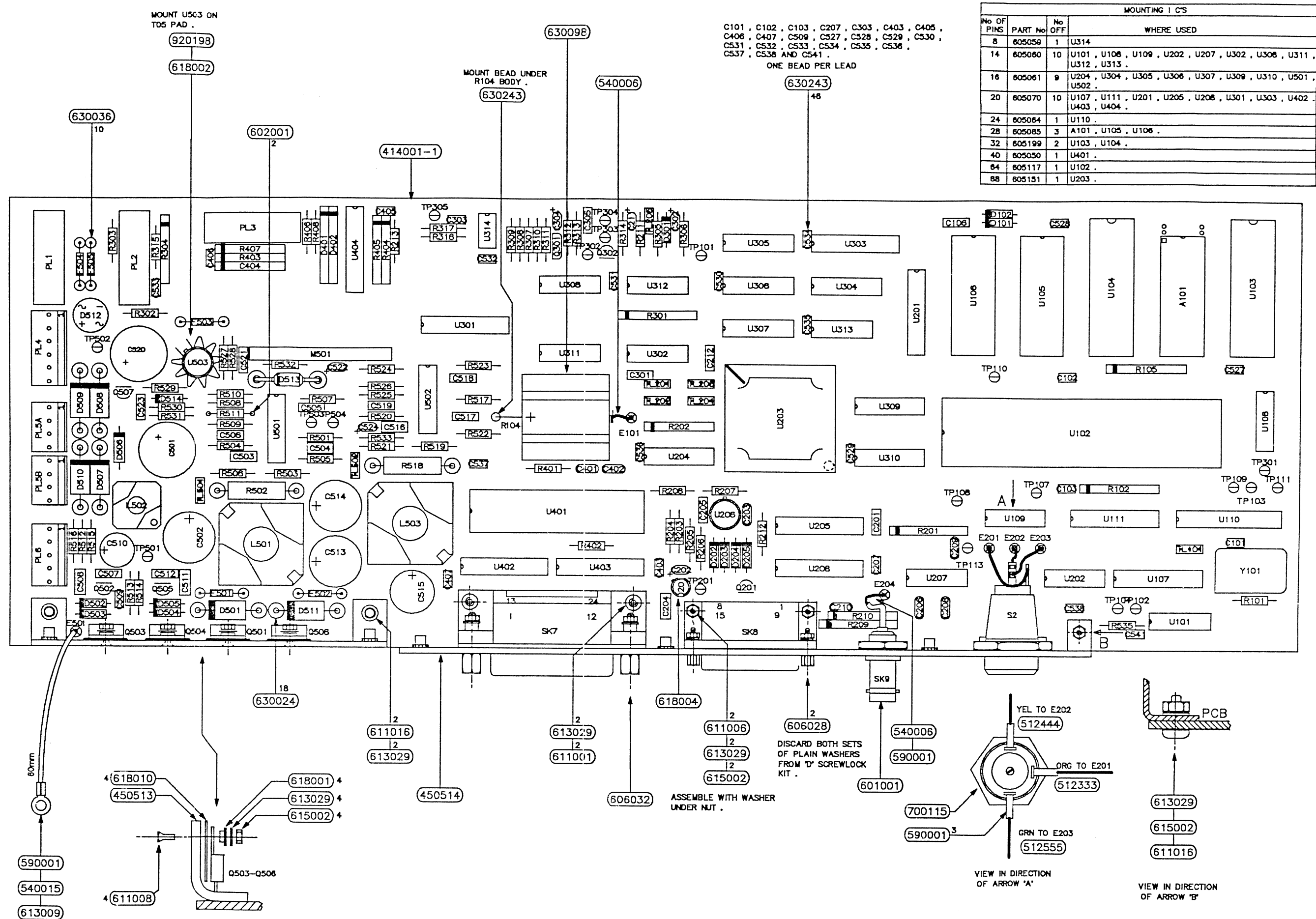
Drawing No. DC400901 Sheet 5 of 5



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128

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|                               |  |                                                                                    |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
|-------------------------------|--|------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------|--|---------------|--|--------------|--|-------------------------------------------|--|----------------------------------------|--|
| DRAWING No<br><b>LD400901</b> |  | CHK D                                                                              |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| DOCUMENT LIST                 |  | DATE                                                                               |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| DISTRIBUTION                  |  | ECO                                                                                |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
|                               |  | REVISION                                                                           |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
|                               |  | ISSUE                                                                              |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
|                               |  | A-2 319012DEC88                                                                    |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| DRAWING NUMBER                |  | SHEET NUMBER                                                                       | ISSUE + REVISION |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| PARTS LIST                    |  | ALL                                                                                |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| ASSEMBLY DRAWING DA400901     |  | 1                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| ASSEMBLY DRAWING DA400901     |  | 2                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| ASSEMBLY DRAWING DA400901     |  | 3                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| CIRCUIT DIAGRAM DC400901      |  | 1                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| CIRCUIT DIAGRAM DC400901      |  | 2                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| CIRCUIT DIAGRAM DC400901      |  | 3                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| CIRCUIT DIAGRAM DC400901      |  | 4                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| CIRCUIT DIAGRAM DC400901      |  | 5                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| TEST PROCEDURE PT400901       |  | -                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| TEST SPEC ST400901            |  | -                                                                                  |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| PCB 414001                    |  |                                                                                    |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
|                               |  | 20                                                                                 |                  |                                                                                                        |  |               |  |              |  |                                           |  |                                        |  |
| NOTES                         |  |  |                  | DRN <br>DATE 22DEC88 |  | CHK D<br>DATE |  | APPD<br>DATE |  | TITLE<br>1271/1281<br>DIGITAL<br>ASSEMBLY |  | DRAWING No<br>LD400901<br>SHEET 1 of 1 |  |

DATRON INSTRUMENTS LTD PARTS LIST 23-Dec-88 DESC: ASSY PCB DIGITAL 1281 DRG NO: LP400901-A REV: 2 PAGE NO: 1

| DESIG | PART NO | DESCRIPTION               | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|---------------------------|-------------|-------------------|-------|----|----------|---------|
| R101  | 011008  | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R102  | 090164  | RES NTWK 2K2 X 8 2%       | BECKMAN     | LO9-1-R2K2        | A     | EA | 3        |         |
| R104  | 014751  | RES MF 4K75 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R105  | 090177  | RES NTWK 3K3 X 8 2%       | BECKMAN     | LO9-1-R3K3        | A     | EA | 1        |         |
| R201  | 090164  | RES NTWK 2K2 X 8 2%       | BECKMAN     | LO9-1-R2K2        | A     | EA | -        |         |
| R202  | 090046  | RES NTWK 10K X 7 2%       | BECKMAN     | LO8-1-R10K        | A     | EA | 1        |         |
| R203  | 015900  | RES MF 590R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R204  | 015620  | RES MF 562R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R205  | 011001  | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 6        |         |
| R206  | 011001  | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R207  | 013092  | RES MF 30K9 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R208  | 013092  | RES MF 30K9 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R209  | 090163  | RES NTWK 10K X 8 2%       | BECKMAN     | LO9-1-R10K        | A     | EA | 1        |         |
| R210  | 090167  | RES PACK 100K X 4 2%      | BECKMAN     | LO8-3-R100K       | A     | EA | 1        |         |
| R211  | 011002  | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 5        |         |
| R212  | 011022  | RES MF 10K2 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R213  | 013328  | RES MF 33R2 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R301  | 090164  | RES NTWK 2K2 X 8 2%       | BECKMAN     | LO9-1-R2K2        | A     | EA | -        |         |
| R302  | 015110  | RES MF 511R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R303  | 014751  | RES MF 4K75 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R304  | 090165  | RES PACK 68R X 4 2%       | BECKMAN     | LO8-3-R68         | A     | EA | 3        |         |
| R305  | 015110  | RES MF 511R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R306  | 014752  | RES MF 47K5 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R307  | 012002  | RES MF 20K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R308  | 011002  | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R309  | 016812  | RES MF 68K1 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R310  | 014991  | RES MF 4K99 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 8        |         |
| R311  | 017501  | RES MF 7K50 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R312  | 014751  | RES MF 4K75 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R313  | 011002  | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R314  | 011002  | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R315  | 016818  | RES MF 68R1 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R316  | 012212  | RES MF 22K1 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R317  | 012212  | RES MF 22K1 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R401  | 016818  | RES MF 68R1 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R402  | 016818  | RES MF 68R1 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R403  | 090041  | RES NTWK 4K7 X 7 2%       | BECKMAN     | LO8-1-R4K7        | A     | EA | 1        |         |
| R404  | 090165  | RES PACK 68R X 4 2%       | BECKMAN     | LO8-3-R68         | A     | EA | -        |         |
| R405  | 090165  | RES PACK 68R X 4 2%       | BECKMAN     | LO8-3-R68         | A     | EA | -        |         |
| R406  | 016190  | RES MF 619R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R407  | 090162  | RES PACK 270R X 4 2%      | AB          | 770-83-270R       | A     | EA | 1        |         |
| R408  | 012740  | RES MF 274R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R501  | 011001  | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R502  | 008039  | RES WW OR20 10% 2.5W      | WELWYN      | W21-OR20          | A     | EA | 1        |         |
| R503  | 011001  | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |

| DESIG | PART NO | DESCRIPTION               | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|---------------------------|-------------|-------------------|-------|----|----------|---------|
| R504  | 011621  | RES MF 1K62 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R505  | 014752  | RES MF 47K5 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R506  | 016812  | RES MF 68K1 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R507  | 014991  | RES MF 4K99 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R508  | 014991  | RES MF 4K99 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R509  | 012742  | RES MF 27K4 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R510  | 014991  | RES MF 4K99 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R511  | 00009F  | RES FSF                   | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R512  | 013920  | RES MF 392R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R513  | 012210  | RES MF 221R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R514  | 012210  | RES MF 221R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R515  | 013920  | RES MF 392R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R516  | 013321  | RES MF 3K32 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R517  | 013920  | RES MF 392R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R518  | 008023  | RES WW 0R1 10% 2.5W       | WELWYN      | W21-0R1           | A     | EA | 1        |         |
| R519  | 011001  | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R520  | 011621  | RES MF 1K62 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R521  | 015622  | RES MF 56K2 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R522  | 014752  | RES MF 47K5 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R523  | 014991  | RES MF 4K99 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R524  | 014991  | RES MF 4K99 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R525  | 014991  | RES MF 4K99 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R526  | 014991  | RES MF 4K99 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R527  | 011001  | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R528  | 013482  | RES MF 34K8 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R529  | 011002  | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R530  | 012211  | RES MF 2K21 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R531  | 013400  | RES MF 340R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R532  | 00000N  | NOT FITTED                |             |                   | A     | EA | 10       |         |
| R533  | 011000  | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R535  | 011008  | RES MF 10R0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| C101  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449            | A     | EA | 2        |         |
| C102  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449            | A     | EA | 21       |         |
| C103  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449            | A     | EA | -        |         |
| C106  | 110042  | CAP PE 100NF 20% 63V      | WIMA        | MKS2              | A     | EA | 6        |         |
| C201  | 110042  | CAP PE 100NF 20% 63V      | WIMA        | MKS2              | A     | EA | -        |         |
| C202  | 150002  | CAP DT 10UF 20% 16V       | AVX         | TAP10M16F         | A     | EA | 2        |         |
| C203  | 100471  | CAP CP 470PF 10% 100V     | PHILIPS     | 2222 630 19471    | A     | EA | 1        |         |
| C204  | 110035  | CAP PE 220NF 20% 63V      | WIMA        | MKS2              | A     | EA | 3        |         |
| C205  | 100121  | CAP CP 120PF 2% 100V      | PHILIPS     | 2222 683 34121    | A     | EA | 1        |         |
| C206  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339    | A     | EA | 4        |         |
| C207  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449            | A     | EA | -        |         |
| C208  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339    | A     | EA | -        |         |
| C209  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339    | A     | EA | -        |         |
| C210  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339    | A     | EA | -        |         |

| DESIG | PART NO | DESCRIPTION               | PRINC MANUF      | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|---------------------------|------------------|-------------------|-------|----|----------|---------|
| C211  | 150016  | CAP DT 1UF 20% 35V        | AVX              | TAP10M35F         | A     | EA | 2        |         |
| C212  | 110050  | CAP PE 22NF 10% 63V       | WIMA             | MKS2              | A     | EA | 1        |         |
| C301  | 100221  | CAP CP 220PF 2% 100V      | PHILIPS          | 2222 683 58221    | A     | EA | 1        |         |
| C302  | 150002  | CAP DT 10UF 20% 16V       | AVX              | TAP10M16F         | A     | EA | -        |         |
| C303  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C304  | 150015  | CAP DT 10UF 20% 35V       | AVX              | TAP10M35F         | A     | EA | 1        |         |
| C305  | 100470  | CAP CP 47PF 2% 100V       | PHILIPS          | 2222 683 34479    | A     | EA | 1        |         |
| C401  | 00000N  | NOT FITTED                |                  |                   | A     | EA | -        |         |
| C402  | 00000N  | NOT FITTED                |                  |                   | A     | EA | -        |         |
| C403  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C404  | 104052  | CAP NTWK 220PF 10%        | MURATA/ERIE      | B8XC0117-33N      | A     | EA | 1        |         |
| C405  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C406  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C407  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C501  | 180047  | CAP AE 1000UF 40V         | ECC              | SMVB              | A     | EA | 1        |         |
| C502  | 180048  | CAP AE 470UF 63V          | NIPPON CHEMI-CON | SMVB 470/63       | A     | EA | 1        |         |
| C503  | 110041  | CAP PE 10NF 20% 100V      | WIMA             | FKS2              | A     | EA | 3        |         |
| C504  | 110041  | CAP PE 10NF 20% 100V      | WIMA             | FKS2              | A     | EA | -        |         |
| C505  | 110042  | CAP PE 100NF 20% 63V      | WIMA             | MKS2              | A     | EA | -        |         |
| C506  | 120028  | CAP PC 4N7F 20% 100V      | WIMA             | FKC2              | A     | EA | 1        |         |
| C507  | 100332  | CAP CP 3N3F 10% 100V      | PHILIPS          | 2222 630 19332    | A     | EA | 2        |         |
| C508  | 110035  | CAP PE 220NF 20% 63V      | WIMA             | MKS2              | A     | EA | -        |         |
| C509  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS          | B37449            | A     | EA | -        |         |
| C510  | 180044  | CAP AE 220UF 40V          | STEATITE         | EKMOODE 322G      | A     | EA | 1        |         |
| C511  | 110035  | CAP PE 220NF 20% 63V      | WIMA             | MKS2              | A     | EA | -        |         |
| C512  | 100332  | CAP CP 3N3F 10% 100V      | PHILIPS          | 2222 630 19332    | A     | EA | -        |         |
| C513  | 180062  | CAP AE 2200UF 16V         | ROEDERSTEIN      | EKMOO JG 422D     | A     | EA | 2        |         |
| C514  | 180062  | CAP AE 2200UF 16V         | ROEDERSTEIN      | EKMOO JG 422D     | A     | EA | -        |         |
| C515  | 180043  | CAP AE 470UF 25V          | STEATITE         | EKMOOF3 347E      | A     | EA | 1        |         |
| C516  | 110041  | CAP PE 10NF 20% 100V      | WIMA             | FKS2              | A     | EA | -        |         |
| C517  | 110040  | CAP PE 33NF 20% 63V       | WIMA             | MKS2              | A     | EA | 2        |         |
| C518  | 110042  | CAP PE 100NF 20% 63V      | WIMA             | MKS2              | A     | EA | -        |         |
| C519  | 110040  | CAP PE 33NF 20% 63V       | WIMA             | MKS2              | A     | EA | -        |         |
| C520  | 180049  | CAP AE 330UF 100V         | PHILIPS          | 035-59331         | A     | EA | 1        |         |
| C521  | 110042  | CAP PE 100NF 20% 63V      | WIMA             | MKS2              | A     | EA | -        |         |
| C522  | 150001  | CAP DT 22UF 20% 16V       | AVX              | TAP22M16F         | A     | EA | 1        |         |
| C523  | 110042  | CAP PE 100NF 20% 63V      | WIMA             | MKS2              | A     | EA | -        |         |
| C524  | 150016  | CAP DT 1UF 20% 35V        | AVX              | TAP10M35F         | A     | EA | -        |         |
| C527  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C528  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C529  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C530  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C531  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C532  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |
| C533  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS          | B37449            | A     | EA | -        |         |



| DESIG | PART NO  | DESCRIPTION                 | PRINC MANUF       | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|-----------------------------|-------------------|-------------------|-------|----|----------|---------|
| C534  | 104025   | CAP CD 100NF +80%-20% 50V   | SIEMENS           | B37449            |       | EA | -        |         |
| C535  | 104025   | CAP CD 100NF +80%-20% 50V   | SIEMENS           | B37449            |       | EA | -        |         |
| C536  | 104025   | CAP CD 100NF +80%-20% 50V   | SIEMENS           | B37449            |       | EA | -        |         |
| C537  | 104025   | CAP CD 100NF +80%-20% 50V   | SIEMENS           | B37449            |       | EA | -        |         |
| C538  | 104025   | CAP CD 100NF +80%-20% 50V   | SIEMENS           | B37449            |       | EA | -        |         |
| C541  | 104025   | CAP CD 100NF +80%-20% 50V   | SIEMENS           | B37449            |       | EA | -        |         |
| U101  | 220010   | DIODE GP SB                 | H.P.              | 1N5711            | A     | EA | 1        |         |
| D102  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | 10       |         |
| D201  | 214012   | DIODE ZN 2V45 20PPM         | FERRANTI          | 2N458             |       | EA | 1        |         |
| D202  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | -        |         |
| D203  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | -        |         |
| D204  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | -        |         |
| D205  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | -        |         |
| D301  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | -        |         |
| D401  | 400695-1 | ASSY COM CATHODE DIODE      | DATRON            | SEE DRG           |       | EA | 1        |         |
| D402  | 400696-1 | ASSY COM ANODE DIODE        | DATRON            | SEE DRG           |       | EA | 1        |         |
| D501  | 200027   | DIODE SB 3A 40V             | INT RECTIFIER     | 31DQ04            |       | EA | 4        |         |
| D502  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | -        |         |
| D503  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | -        |         |
| D504  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | -        |         |
| D505  | 200001   | DIODE GP 75mA 75V           | FAIRCHILD         | 1N4148            |       | EA | -        |         |
| D506  | 200002   | DIODE GP 1A 50V             | FAIRCHILD         | 1N4001            |       | EA | 1        |         |
| D507  | 200026   | DIODE GP 3A 100V            | MOTOROLA          | 1N5401            |       | EA | 2        |         |
| D508  | 200027   | DIODE SB 3A 40V             | INT RECTIFIER     | 31DQ04            |       | EA | -        |         |
| D509  | 200027   | DIODE SB 3A 40V             | INT RECTIFIER     | 31DQ04            |       | EA | -        |         |
| D510  | 200026   | DIODE GP 3A 100V            | MOTOROLA          | 1N5401            |       | EA | -        |         |
| D511  | 200027   | DIODE SB 3A 40V             | INT RECTIFIER     | 31DQ04            |       | EA | -        |         |
| D512  | 209013   | DIODE BR 1A5 600V           | MICRO-ELECTRONICS | W006              |       | EA | 1        |         |
| D513  | 213006   | DIODE ZN 5V 5W              | UNITRODE          | TVS505            |       | EA | 1        |         |
| D514  | 210075   | DIODE ZN 7V5 400mW          | PHILIPS           | BZX79C7V5         | A     | EA | 1        |         |
| Q201  | 240013   | TRAN NPN TO18               | NATIONAL          | BC184C/TO18       |       | EA | 1        |         |
| Q301  | 230081   | TRAN MOSFET N-CHAN          | FERRANTI          | ZVN0106A          | A     | EA | 1        |         |
| Q302  | 250008   | TRAN PNP TO18               | NATIONAL          | BC214C/TO18       |       | EA | 1        |         |
| Q501  | 230085   | TRAN MOSFET P-CHAN 60V      | SILICONIX         | IRF9531           | A     | EA | 2        |         |
| Q502  | 240009   | TRAN NPN TO18               | NATIONAL          | MPSL01/2N5550     |       | EA | 3        |         |
| Q503  | 240034   | TRAN NPN                    | MOTOROLA          | TIP31C            |       | EA | 2        |         |
| Q504  | 240034   | TRAN NPN                    | MOTOROLA          | TIP31C            |       | EA | -        |         |
| Q505  | 240009   | TRAN NPN TO18               | NATIONAL          | MPSL01/2N5550     |       | EA | -        |         |
| Q506  | 230085   | TRAN MOSFET P-CHAN 60V      | SILICONIX         | IRF9531           | A     | EA | -        |         |
| Q507  | 240009   | TRAN NPN TO18               | NATIONAL          | MPSL01/2N5550     |       | EA | -        |         |
| M501  | 00000N   | NOT FITTED                  |                   |                   |       | EA | -        |         |
| U101  | 270103   | IC DIG COUNTER 4BIN DUAL LS | SIGNETICS         | 74LS393           |       | EA | 1        |         |
| U102  | 280153   | IC DIG MICROPROC 16 BIT     | HITACHI           | HP68000P8         |       | EA | 1        |         |
| U103  | 00000N   | NOT FITTED                  |                   |                   |       | EA | -        |         |
| U104  | 00000N   | NOT FITTED                  |                   |                   |       | EA | -        |         |

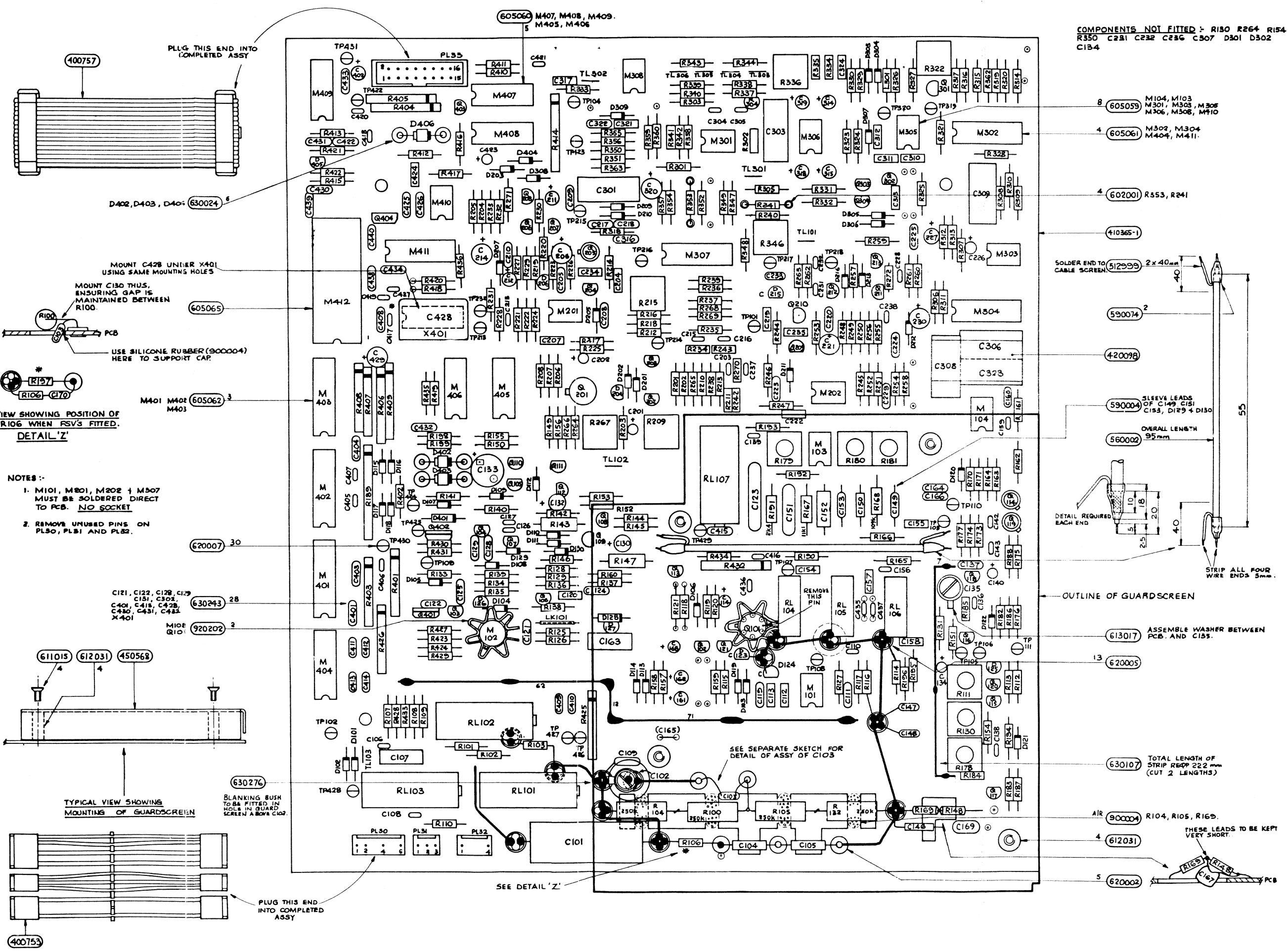
| DESIG | PART NO  | DESCRIPTION                    | PRINC MANUF       | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|--------------------------------|-------------------|-------------------|-------|----|----------|---------|
| U105  | 280174   | IC DIG CMOS RAM 37K X 8        | FUJITSU           | MB84256-12LLP     |       | EA | 2        |         |
| U106  | 280162   | IC DIG CMOS STATIC RAM         | TOSHIBA           | TC5564PL-1        | A     | EA | 1        |         |
| U107  | 400902-A | ASSY PAL 1281 20L8 CONTROL     | SEE DRG           |                   |       | EA | 1        |         |
| U108  | 270105   | IC DIG NOR5 DUAL LS            | SIGNETICS         | 74LS260N          |       | EA | 1        |         |
| U109  | 270080   | IC DIG OR2 QUAD LS             | NATIONAL          | DM74LS32N         |       | EA | 1        |         |
| U110  | 400903-A | ASSY PAL 1281 20L8 ADDR DECODE | SEE DRG           |                   |       | EA | 1        |         |
| U111  | 400904-A | ASSY PAL 1281 10L8 IO DECODE   | SEE DRG           |                   |       | EA | 1        |         |
| U112  | 280174   | IC DIG CMOS RAM 37K X 8        | FUJITSU           | MB84256-12LLP     |       | EA | -        |         |
| U201  | 280134   | IC DIG TRANS OCT 3S LS         | SIGNETICS         | PC74HCT245P       |       | EA | 1        |         |
| U202  | 270051   | IC DIG AND4 DUAL LS            | NATIONAL          | DM74LS21N         |       | EA | 1        |         |
| U203  | 280130   | IC DIG ASIC                    | PLESSEY           | CLA3721           |       | EA | 1        |         |
| U204  | 280024   | IC DIG BUFFER TRI-STATE HEX    | MOTOROLA          | MC14503BCP        |       | EA | 1        |         |
| U205  | 280157   | IC DIG D-A CONVERTOR           | ANALOGUE DEVICES  | AD7545            |       | EA | 1        |         |
| U206  | 260088   | IC LIN OP AMP PREC.            | LINEAR TECHNOLOGY | LT1013CH          |       | EA | 1        |         |
| U207  | 280159   | IC DIG QUAD 2 I/P AND          | TEXAS             | 74 HCT 08         |       | EA | 1        |         |
| U208  | 270068   | IC DIG FLIP FLOP TRI-STATE OCT | NATIONAL          | DM74LS374N        |       | EA | 1        |         |
| U301  | 280137   | IC DIG DRIVER OCT 3S HCT       | SIGNETICS         | PC74HCT244P       |       | EA | 3        |         |
| U302  | 280160   | IC DIG FLIP/FLOP JK DUAL HCT   | TEXAS             | 74HCT74           |       | EA | 3        |         |
| U303  | 280137   | IC DIG DRIVER OCT 3S HCT       | SIGNETICS         | PC74HCT244P       |       | EA | -        |         |
| U304  | 280161   | IC DIG 4 BIT BIN COUNTER       | TEXAS             | 74HCT161          |       | EA | 4        |         |
| U305  | 280161   | IC DIG 4 BIT BIN COUNTER       | TEXAS             | 74HCT161          |       | EA | -        |         |
| U306  | 280161   | IC DIG 4 BIT BIN COUNTER       | TEXAS             | 74HCT161          |       | EA | -        |         |
| U307  | 280161   | IC DIG 4 BIT BIN COUNTER       | TEXAS             | 74HCT161          |       | EA | -        |         |
| U308  | 270050   | IC DIG INV HEX LS              | NATIONAL          | DM74LS04N         |       | EA | 1        |         |
| U309  | 270088   | IC DIG CONV8 SER/PAR LS        | NATIONAL          | DM74LS165N        |       | EA | 2        |         |
| U310  | 270088   | IC DIG CONV8 SER/PAR LS        | NATIONAL          | DM74LS165N        |       | EA | -        |         |
| U311  | 280170   | IC DIG QUAD 2 I/P NOR          | TEXAS             | 74HCT02           |       | EA | 1        |         |
| U312  | 280160   | IC DIG FLIP/FLOP JK DUAL HCT   | TEXAS             | 74HCT74           |       | EA | -        |         |
| U313  | 280160   | IC DIG FLIP/FLOP JK DUAL HCT   | TEXAS             | 74HCT74           |       | EA | -        |         |
| U314  | 260075   | IC LIN V COMP DUAL             | NATIONAL          | LM2903N           |       | EA | 1        |         |
| U401  | 280158   | IC DIG IEEE CONTROLLER         | TEXAS             | TMS9914ANL        |       | EA | 1        |         |
| U402  | 270100   | IC DIG IEEE BUS TX/RX          | NATIONAL          | DS75160AN         | A     | EA | 1        |         |
| U403  | 270101   | IC DIG TRANSCEIVER IEEE BUS    | NATIONAL          | DS75161AN         | A     | EA | 1        |         |
| U404  | 280137   | IC DIG DRIVER OCT 3S HCT       | SIGNETICS         | PC74HCT244P       |       | EA | -        |         |
| U501  | 260101   | IC LIN SW MODE PSU             | SGS               | UC3524A           | A     | EA | 2        |         |
| U502  | 260101   | IC LIN SW MODE PSU             | SGS               | UC3524A           |       | EA | -        |         |
| U503  | 260102   | IC LIN REG VAR                 | NATIONAL          | LM317HVH          |       | EA | 1        |         |
| PL1   | 604076   | PLUG PCB 16-WAY .1"X.1" GRID   | 3M                | 3599-6002 UN      |       | EA | 3        |         |
| PL2   | 604076   | PLUG PCB 16-WAY .1"X.1" GRID   | 3M                | 3599-6002 UN      |       | EA | -        |         |
| PL3   | 604076   | PLUG PCB 16-WAY .1"X.1" GRID   | 3M                | 3599-6002 UN      |       | EA | -        |         |
| PL4   | 604079   | PLUG PCB 6 WAY .156" HEADER    | MOLEX             | 09-72-2061        |       | EA | 1        |         |
| PL6   | 604078   | PLUG PCB 5 WAY .156" HEADER    | MOLEX             | 09-72-2051        |       | EA | 1        |         |
| L501  | 370029-1 | CHOKO 625UH RM10               | SEE DRG           |                   |       | EA | 2        |         |
| L502  | 370028-1 | CHOKO INDUCTOR 2 X 50 MH       | SEE DRG           |                   |       | EA | 1        |         |
| L503  | 370029-1 | CHOKO 625UH RM10               | SEE DRG           |                   |       | EA | -        |         |



| DESIG | PART NO  | DESCRIPTION                 | PRINC MANUF | MANUF PART NUMBER | CLASS UM | QUANTITY | CHANGES |
|-------|----------|-----------------------------|-------------|-------------------|----------|----------|---------|
| PL5A  | 604042   | PLUG PCB 4 WAY .156" GD PL  | MOLEX       | 09-72-2041        | EA       | 2        |         |
| PL5B  | 604042   | PLUG PCB 4 WAY .156" GD PL  | MOLEX       | 09-72-2041        | EA       | -        |         |
| SK7   | 605180   | SOCKET 24-WAY IEEE SCREENED | AMP         | 553811-2          | EA       | 1        |         |
| SK8   | 605169   | SOCKET PCB 15 WAY D         | AMP         | 164801-2          | EA       | 1        |         |
| E101  | 620006   | SOLDER TURRET               | HARWIN      | H9001-01          | EA       | 6        |         |
| E201  | 620006   | SOLDER TURRET               | HARWIN      | H9001-01          | EA       | -        |         |
| E202  | 620006   | SOLDER TURRET               | HARWIN      | H9001-01          | EA       | -        |         |
| E203  | 620006   | SOLDER TURRET               | HARWIN      | H9001-01          | EA       | -        |         |
| E204  | 620006   | SOLDER TURRET               | HARWIN      | H9001-01          | EA       | -        |         |
| E501  | 620006   | SOLDER TURRET               | HARWIN      | H9001-01          | EA       | -        |         |
| TL101 | 604046   | PLUG PCB 3-WAY .1"          | MOLEX       | 22-10-2031        | EA       | 8        |         |
| TL201 | 604046   | PLUG PCB 3-WAY .1"          | MOLEX       | 22-10-2031        | EA       | -        |         |
| TL202 | 604046   | PLUG PCB 3-WAY .1"          | MOLEX       | 22-10-2031        | EA       | -        |         |
| TL203 | 604046   | PLUG PCB 3-WAY .1"          | MOLEX       | 22-10-2031        | EA       | -        |         |
| TL204 | 604046   | PLUG PCB 3-WAY .1"          | MOLEX       | 22-10-2031        | EA       | -        |         |
| TL205 | 604046   | PLUG PCB 3-WAY .1"          | MOLEX       | 22-10-2031        | EA       | -        |         |
| TL501 | 604046   | PLUG PCB 3-WAY .1"          | MOLEX       | 22-10-2031        | EA       | -        |         |
| TL502 | 604046   | PLUG PCB 3-WAY .1"          | MOLEX       | 22-10-2031        | EA       | -        |         |
| TP101 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | 20       |         |
| TP102 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP103 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP104 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP107 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP108 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP109 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP110 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP111 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP113 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP201 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP301 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP302 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP303 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP304 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP305 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP501 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP502 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP503 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| TP504 | 620007   | TEST POINT TERMINAL         | MICROVAR    | TYPE C30          | EA       | -        |         |
| Y101  | 800035   | CRYSTAL OSC 16MHz           | IDQ         | IQXO-100-16MHz    | EA       | 1        |         |
| F501  | 920125   | FUSE 2.5 125V 7mm           | LITTLEFUSE  | 275 02.5          | EA       | 4        |         |
| F502  | 920125   | FUSE 2.5 125V 7mm           | LITTLEFUSE  | 275 02.5          | EA       | -        |         |
| F503  | 920124   | FUSE 375MA 125V 7MM         | LITTLEFUSE  | 275.375           | EA       | 1        |         |
| F504  | 920125   | FUSE 2.5 125V 7mm           | LITTLEFUSE  | 275 02.5          | EA       | -        |         |
| F505  | 920125   | FUSE 2.5 125V 7mm           | LITTLEFUSE  | 275 02.5          | EA       | -        |         |
|       | 414001-1 | PCB DIGITAL 1281            |             | SEE DRG           | EA       | 1        |         |

| DESIG | PART NO  | DESCRIPTION                    | PRINC MANUF          | MANUF PART NUMBER    | CLASS UM | QUANTITY | CHANGES |
|-------|----------|--------------------------------|----------------------|----------------------|----------|----------|---------|
|       | 450513-1 | HEATSINK DIG 1281              |                      | SEE DRG              | EA       | 1        |         |
|       | 450514-1 | CONN MOUNTING BRACKET DIG 1281 |                      | SEE DRG              | EA       | 1        |         |
|       | 512333   | WIRE 7/.2 PTFE 1KV ORANGE      | BSG210               | TYPE C               | AR       | 1        |         |
|       | 512444   | WIRE 7/.2 PTFE 1KV YEL         | BSG210               | TYPE C               | AR       | 1        |         |
|       | 512555   | WIRE 7/.2 PTFE 1KV GRN         | BSG210               | TYPE C               | AR       | 1        |         |
|       | 540006   | WIRE 1/.4 BLACK PTFE 250V      | BSG210               | TYPE A               | AR       | 1        |         |
|       | 540015   | WIRE 19/0.2 PTFE 500V GRN/YEL  |                      |                      | AR       | 1        |         |
|       | 590001   | SLEEVE NP 1.5 X 20MM BLK       | HELLERMANN           | H15                  | EA       | 5        |         |
|       | 601001   | SOCKET BULKHEAD BNC 50 OHMS    | GREENPAR             | GE350275             | EA       | 1        |         |
|       | 602001   | TERMINAL FSV                   | MOLEX                | 02-04-5114           | EA       | 2        |         |
|       | 605050   | SOCKET PCB 40-WAY DIL          | JERMYN               | J23-18040            | A        | EA       | 1       |
|       | 605059   | SOCKET PCB 8-WAY DIL           | JERMYN               | J23-18008            | A        | EA       | 1       |
|       | 605060   | SOCKET PCB 14-WAY DIL          | JERMYN               | J23-18014            | A        | EA       | 10      |
|       | 605061   | SOCKET PCB 16-WAY DIL          | JERMYN               | J23-18016            | A        | EA       | 9       |
|       | 605064   | SOCKET PCB 24 WAY DIL          | JERMYN               | J23-18024            | A        | EA       | 1       |
|       | 605065   | SOCKET PCB 28 WAY DIL          | JERMYN               | J23-18028            | A        | EA       | 3       |
|       | 605070   | SOCKET PCB 20-WAY DIL          | JERMYN               | J23-18020            | A        | EA       | 10      |
|       | 605117   | SOCKET PCB 64 WAY DIL          | JERMYN               | J23-18064            | A        | EA       | 1       |
|       | 605127   | SOCKET LINK 2-WAY .1" BLK      | ASSMANN              | AKSPI, G             | EA       | 4        |         |
|       | 605151   | SOCKET PCB 68 WAY LCC          | METHODE (SELWYN)     | 212-068-001          | EA       | 1        |         |
|       | 605199   | SOCKET PCB 32-WAY DIL 0.6P     | HARWIN               | D2832-01             | EA       | 2        |         |
|       | 606028   | 'D' SCREW LOCK                 | CARNON               | D20418-2             | EA       | 2        |         |
|       | 606032   | MTG KIT IEEE SCR SOCKET        | AMP                  | 554808-1             | EA       | 1        |         |
|       | 611001   | SCREW 4-40 X 3/8 POZIPAN SZP   |                      |                      | EA       | 2        |         |
|       | 611006   | SCREW M3 X 10 POZIPAN SZP      |                      |                      | EA       | 2        |         |
|       | 611008   | SCREW M3 X 10 POZICKS SZP      |                      |                      | EA       | 4        |         |
|       | 611016   | SCREW M3 X 8 POZIPAN SZP       |                      |                      | EA       | 3        |         |
|       | 613005   | WASHER M3 INT SHAKEPROOF       |                      |                      | EA       | 8        |         |
|       | 613009   | SOLDER TAG 4 BA BTP            |                      |                      | EA       | 1        |         |
|       | 615002   | NUT M3 FULL SZP                |                      |                      | EA       | 7        |         |
|       | 618001   | BUSH INSUL. TO220              | PHILIPS              | 56359C               | EA       | 4        |         |
|       | 618002   | PAD MNTG. TO18, TO5            | JERMYN               | TO518-004D           | EA       | 1        |         |
|       | 618004   | PAD MNTG. TO18                 | JERMYN               | TO18-008D            | EA       | 1        |         |
|       | 618010   | PAD INSUL. SIL TO220           | WARTH                | 4177-NA-54           | EA       | 4        |         |
|       | 630024   | BEAD CERAMIC 16 SWG            | PARK ROYAL PORCELAIN | No2                  | EA       | 18       |         |
|       | 630036   | BEAD CERAMIC 18 SWG            | PARK ROYAL PORCELAIN | No1                  | EA       | 10       |         |
|       | 630098   | CLIP COMPONENT 12.7 DIA        | RICHO                | KKU-8                | EA       | 1        |         |
|       | 630243   | BEAD GLASS 2.4 X 0.81 X 1.8    | MANSOL (PREFORMS) LT | M5363B/3             | EA       | 47       |         |
|       | 700115   | SWITCH 2P 2POSN KEY            | ROLSECURE            | 5017-04-2 KEY No 850 | EA       | 1        |         |
|       | 920198   | HEATSINK TO5                   | FARNELL              | 170-066              | EA       | 1        |         |
| A     | 00000N   | NOT FITTED                     |                      |                      | EA       | -        |         |
| B     | 00000N   | NOT FITTED                     |                      |                      | EA       | -        |         |
| C     | 00000N   | NOT FITTED                     |                      |                      | EA       | -        |         |
| D     | 00000N   | NOT FITTED                     |                      |                      | EA       | -        |         |

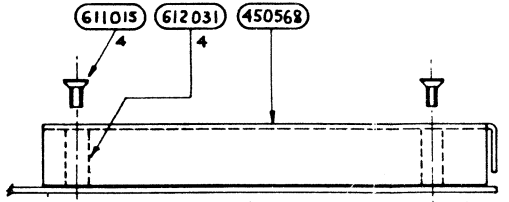
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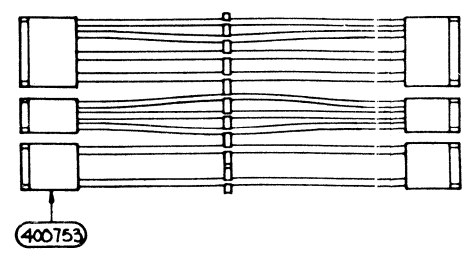
COMPONENTS NOT FITTED: R130 R264 R154  
R350 C281 C232 C236 C307 D301 D302  
C134

VIEW SHOWING POSITION OF  
R106 WHEN RSV'S FITTED.  
DETAIL 'Z'

- NOTES:-
1. M101, M201, M202 & M307  
MUST BE SOLDERED DIRECT  
TO PCB. NO SOCKET.
  2. REMOVE UNUSED PINS ON  
PL30, PL31 AND PL32.



TYPICAL VIEW SHOWING  
MOUNTING OF GUARDSCREEN



BLANKING BUSH  
TO BE FITTED IN  
HOLE IN GUARD  
SCREEN & BOW C102

SEE DETAIL 'Z'

SEE SEPARATE SKETCH FOR  
DETAIL OF ASSY OF C103

OUTLINE OF GUARDSCREEN

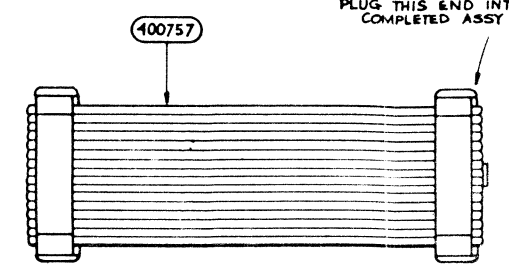
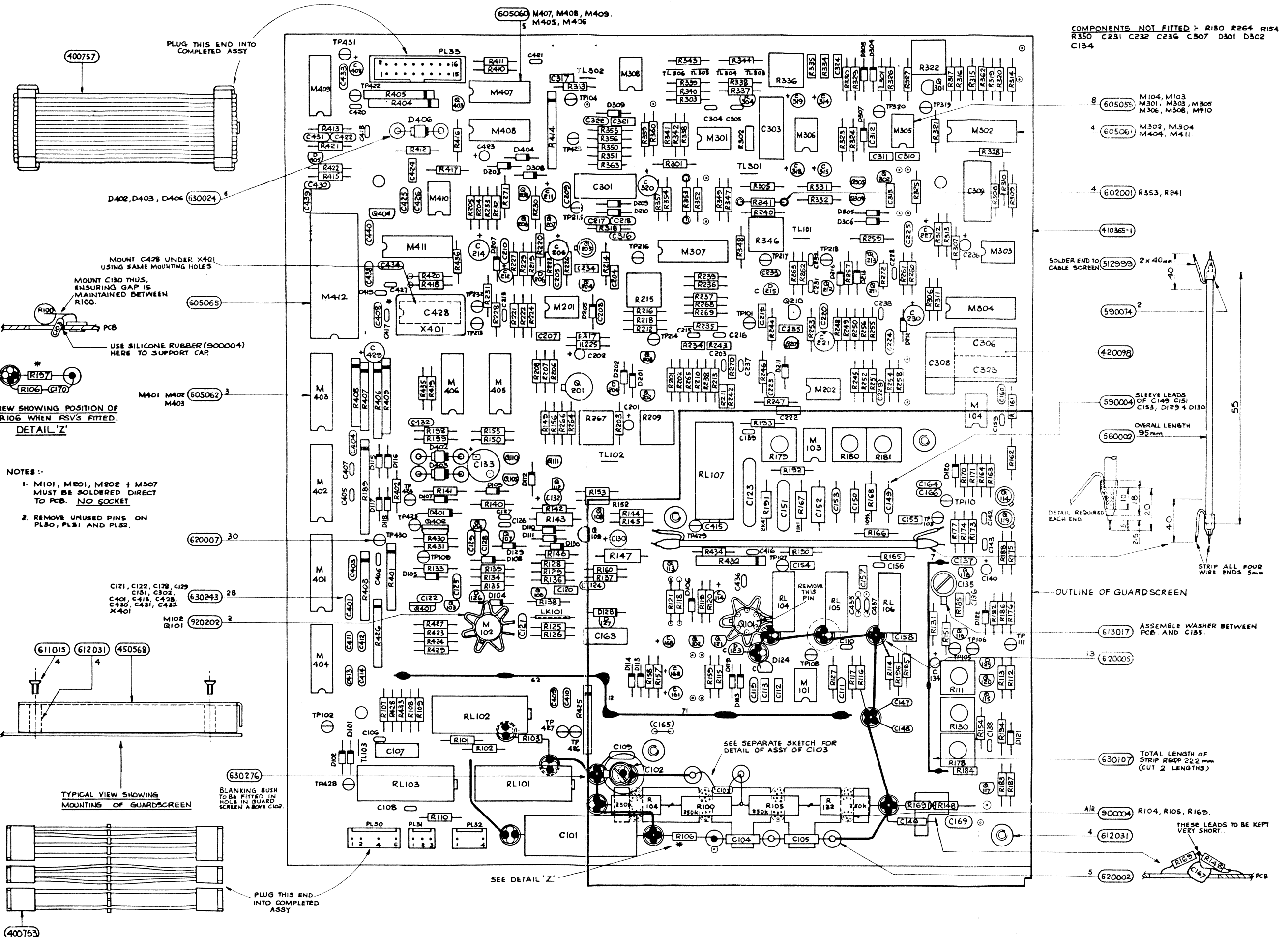
ASSEMBLE WASHER BETWEEN  
PCB AND C135.

TOTAL LENGTH OF  
STRIP REQD 222mm  
(CUT 2 LENGTHS)

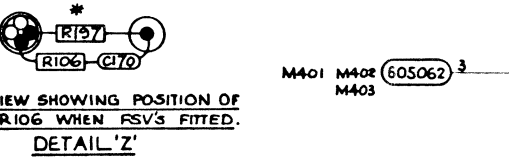
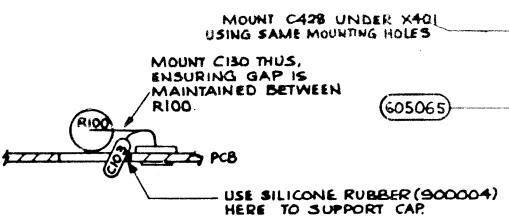
R104, R105, R169.

THESE LEADS TO BE KEPT  
VERY SHORT.





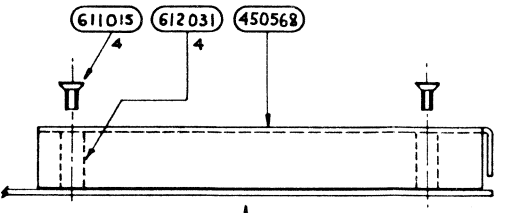
D402, D403, D406 (630024)



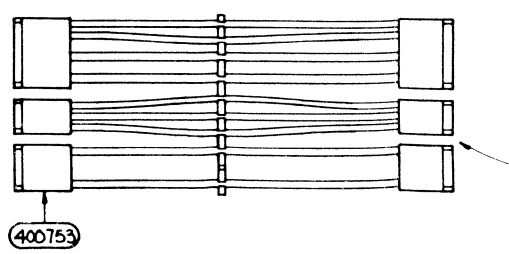
- NOTES:-
1. M101, M201, M202 & M307 MUST BE SOLDERED DIRECT TO PCB. NO SOCKET
  2. REMOVE UNUSED PINS ON PL30, PL31 AND PL32.

C121, C122, C128, C129, C131, C302, C401, C418, C428, C430, C431, C432, X401

M108, Q101



TYPICAL VIEW SHOWING MOUNTING OF GUARDSCREEN



630276

PLUG THIS END INTO COMPLETED ASSY

SEE DETAIL 'Z'

SEE SEPARATE SKETCH FOR DETAIL OF ASSY OF C103

COMPONENTS NOT FITTED:- R130 R264 R154 R350 C231 C232 C236 C307 D301 D302 C134

8 605055 M104, M103, M301, M303, M306, M308, M410

4 605061 M302, M304, M404, M411

4 602001 R553, R241

410365-1

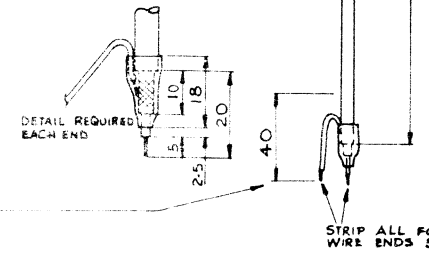
SOLDER END TO CABLE SCREEN

590074

420098

590004 SLEEVE LEADS OF C149, C151, C153, D129 & D130

560002 OVERALL LENGTH 95mm



OUTLINE OF GUARDSCREEN

613017 ASSEMBLE WASHER BETWEEN PCB AND C135

13 620005

630107 TOTAL LENGTH OF STRIP R69P 222mm (CUT 2 LENGTHS)

1/2 900004 R104, R105, R169

4 612031

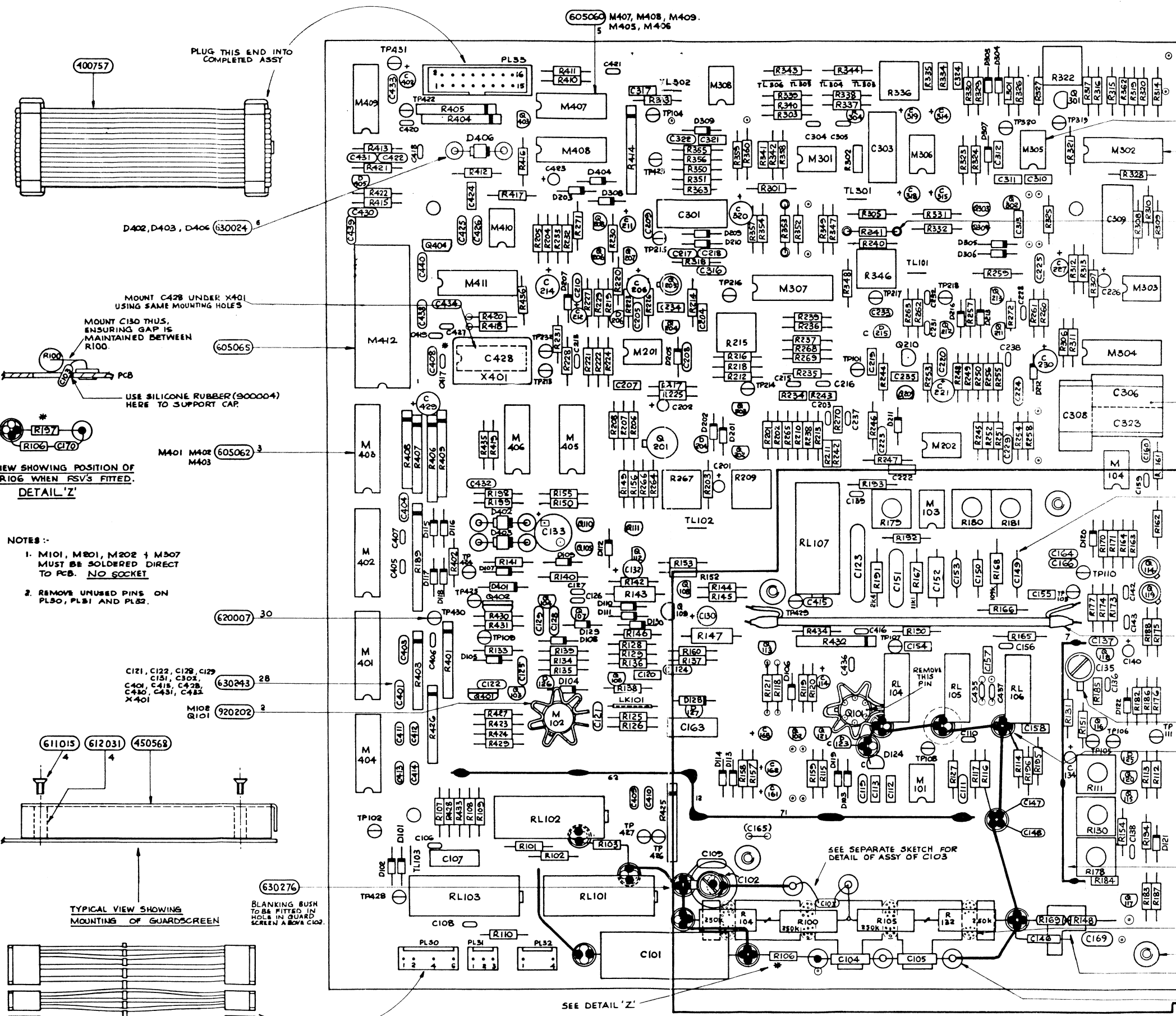
5 620002 THESE LEADS TO BE KEPT VERY SHORT

## A.C. ASSEMBLY

## Precision Rectifier and Logarithmic Amplifier

**Drawing No. 430741**

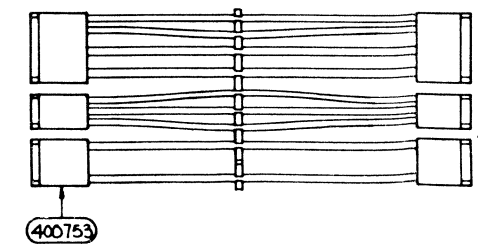
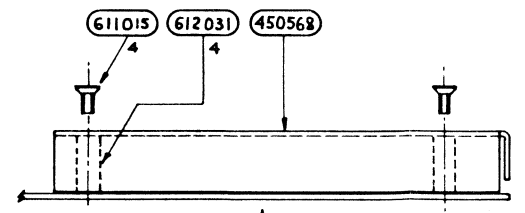
Sheet 2 of 4



VIEW SHOWING POSITION OF R106 WHEN RSV'S FITTED. DETAIL 'Z'

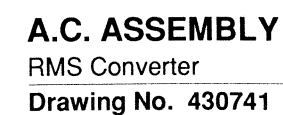
NOTES:-

1. M101, M201, M202 & M307 MUST BE SOLDERED DIRECT TO PCB. NO SOCKET
2. REMOVE UNUSED PINS ON PL30, PL31 AND PL32.



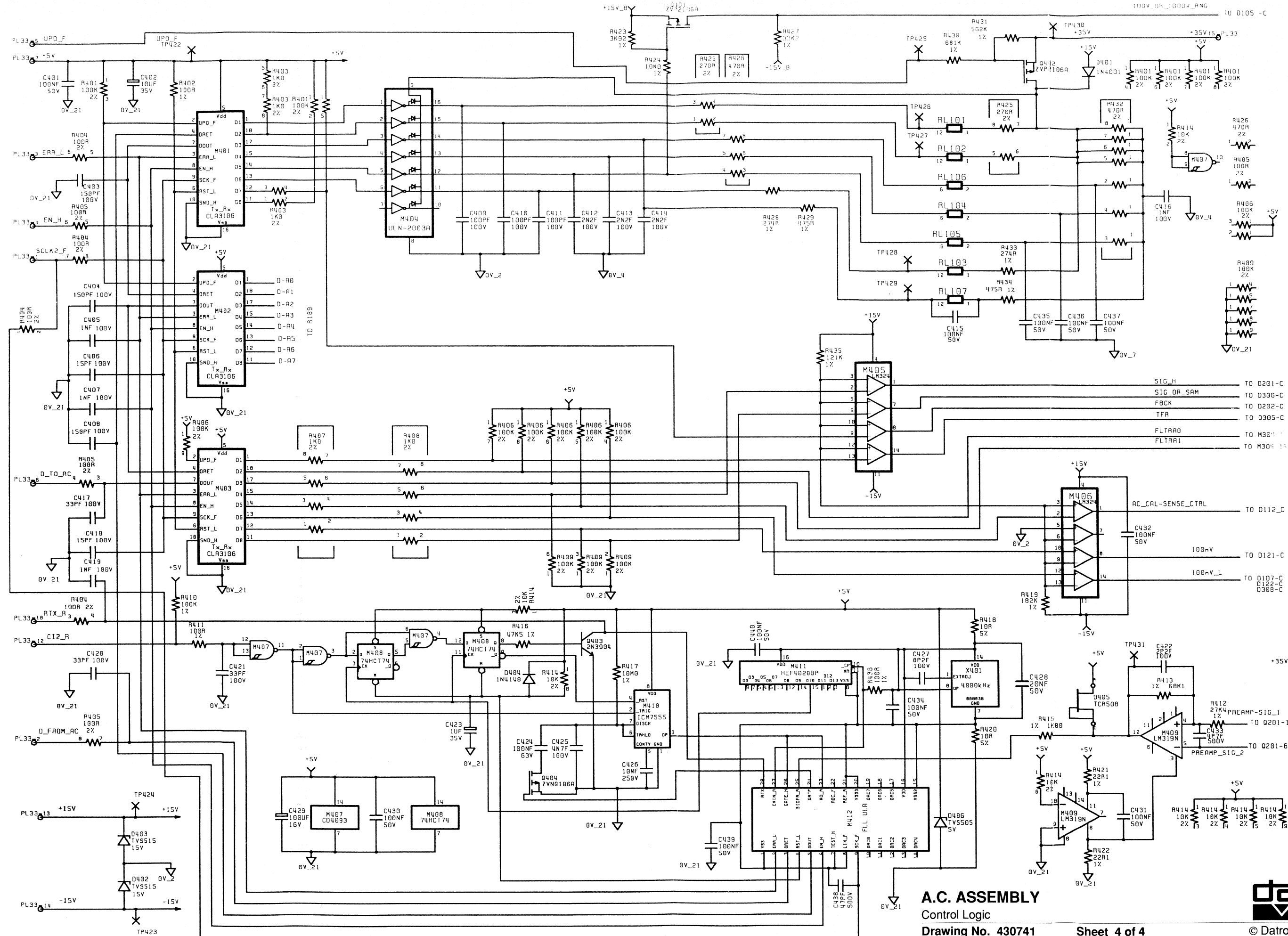
- COMPONENTS NOT FITTED: R130 R264 R154 R350 C231 C232 C236 C307 D301 D302 C134
- 8 605055 M104, M103 M301, M303, M305 M306, M308, M410
  - 4 605061 M302, M304 M404, M411
  - 4 602001 R553, R241
  - 410365-1
  - SOLDER END TO CABLE SCREEN 512999 2 x 40mm
  - 590074 2
  - 420098
  - 590004 SLEEVE LEADS OF C149, C151 C153, D129 & D130
  - 560002 OVERALL LENGTH 95mm
  - DETAIL REQUIRED EACH END
  - STRIP ALL FOUR WIRE ENDS 5mm
  - OUTLINE OF GUARDSCREEN
  - 613017 ASSEMBLE WASHER BETWEEN PCB AND C135
  - 13 620005
  - 630107 TOTAL LENGTH OF STRIP REAP 222mm (CUT 2 LENGTHS)
  - AIR 900004 R104, R105, R169
  - 4 612031 THESE LEADS TO BE KEPT VERY SHORT
  - 5 620002











**A.C. ASSEMBLY**  
Control Logic  
Drawing No. 430741

Sheet 4 of 4

26 OCT 1988

| DESIG | PART NO  | DESCRIPTION               | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|---------------------------|-------------|-------------------|-------|----|----------|---------|
| R148  | 090178-1 | RES FL SET X 9            | TRW         | SEE DRG           |       |    | S9 -     |         |
| R149  | 011001   | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R150  | 011213   | RES MF 121K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 5     |         |
| R151  | 015622   | RES MF 56K2 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R152  | 041004   | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R153  | 011001   | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R154  | 000000   | NOT FITTED                |             |                   |       |    | EA -     |         |
| R155  | 011502   | RES MF 15K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 5     |         |
| R156  | 013010   | RES MF 301R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 3     |         |
| R157  | 012211   | RES MF 2K21 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 2     |         |
| R158  | 012211   | RES MF 2K21 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R159  | 011003   | RES MF 100K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R160  | 011002   | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R161  | 014643   | RES MF 464K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 1     |         |
| R162  | 011002   | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R163  | 041004   | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R164  | 041004   | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R165  | 015622   | RES MF 56K2 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R166  | 011213   | RES MF 121K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R167  | 090178-1 | RES FL SET X 9            | TRW         | SEE DRG           |       |    | S9 -     |         |
| R168  | 090178-1 | RES FL SET X 9            | TRW         | SEE DRG           |       |    | S9 -     |         |
| R169  | 090178-1 | RES FL SET X 9            | TRW         | SEE DRG           |       |    | S9 -     |         |
| R170  | 012433   | RES MF 243K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 1     |         |
| R171  | 041004   | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R173  | 011000   | RES MF 100R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 6     |         |
| R174  | 011002   | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R175  | 014751   | RES MF 4K75 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R176  | 011002   | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R177  | 011002   | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R178  | 063103   | RES CT 10K HORZ S/T       | BECKMAN     | 72P               |       |    | EA 5     |         |
| R179  | 063103   | RES CT 10K HORZ S/T       | BECKMAN     | 72P               |       |    | EA -     |         |
| R180  | 063103   | RES CT 10K HORZ S/T       | BECKMAN     | 72P               |       |    | EA -     |         |
| R181  | 063103   | RES CT 10K HORZ S/T       | BECKMAN     | 72P               |       |    | EA -     |         |
| R182  | 041004   | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R183  | 041004   | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R184  | 080104   | RES FL 1K11 .1% 1PPM      | VISHAY MARR | S102L             |       |    | EA 1     |         |
| R185  | 080105   | RES FL 10K00 .01% 1PPM    | VISHAY MARR | S102L             |       |    | EA 4     |         |
| R186  | 050078   | RES MF 18K0 1% .12W 50PPM | CORNING     | SMA-0204-TK50     |       |    | EA 1     |         |
| R187  | 012001   | RES MF 2K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 3     |         |
| R188  | 041004   | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R189  | 090042-1 | RES NTRK 100K+200K 8BIT   | ITT         | SEE DRG           |       |    | EA 1     |         |
| R190  | 012372   | RES MF 23K7 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 1     |         |
| R191  | 090178-1 | RES FL SET X 9            | TRW         | SEE DRG           |       |    | S9 -     |         |
| R192  | 015110   | RES MF 511R 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 1     |         |
| R193  | 013321   | RES MF 3K32 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     |    | EA 4     |         |

| DESIG | PART NO | DESCRIPTION                | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|----------------------------|-------------|-------------------|-------|----|----------|---------|
| R194  | 041825  | RES M 18M2 1% .12W 150PPM  | NEPCO       | 5053YL            | A     |    | EA 1     |         |
| R195  | 011821  | RES MF 1K82 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 1     |         |
| R196  | 008072  | RES MG 68M 5% 2.5KV        | MULLARD     | VR37              |       |    | EA -     |         |
| R197  | 00000P  | RES FSU                    |             |                   |       |    | EA 2     |         |
| R198  | 000478  | RES CF 4R7 5% .25W         | NEOHM       | CFR25             | A     |    | EA 2     |         |
| R199  | 000478  | RES CF 4R7 5% .25W         | NEOHM       | CFR25             | A     |    | EA -     |         |
| R201  | 044753  | RES MF 475K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 4     |         |
| R202  | 044753  | RES MF 475K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R203  | 013922  | RES MF 39K2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 3     |         |
| R204  | 013321  | RES MF 3K32 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R205  | 013321  | RES MF 3K32 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R206  | 013922  | RES MF 39K2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R207  | 011003  | RES MF 100K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R208  | 013922  | RES MF 39K2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R209  | 063202  | RES CT 2K HORZ S/T         | BECKMAN     | 72P               |       |    | EA 1     |         |
| R210  | 011003  | RES MF 100K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R211  | 080106  | RES FL 5K00 .01% 1PPM      | VISHAY MARR | S102L             |       |    | EA 2     |         |
| R212  | 011213  | RES MF 121K 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R213  | 000208  | RES CF 2R0 5% .25W         | NEOHM       | CFR25             | A     |    | EA 1     |         |
| R214  | 013012  | RES MF 30K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R215  | 063204  | RES CT 200K HORZ S/T       | BECKMAN     | 72P               |       |    | EA 1     |         |
| R216  | 041004  | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R217  | 011502  | RES MF 15K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R218  | 011008  | RES MF 10R0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 2     |         |
| R219  | 016491  | RES MF 6K49 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 2     |         |
| R220  | 017508  | RES MF 75R0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 1     |         |
| R221  | 012212  | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 4     |         |
| R222  | 013652  | RES MF 36K5 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 2     |         |
| R223  | 013018  | RES MF 30R1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 1     |         |
| R224  | 011212  | RES MF 12K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 1     |         |
| R225  | 011502  | RES MF 15K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R226  | 013320  | RES MF 33R2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R227  | 011218  | RES MF 12R1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 2     |         |
| R228  | 018250  | RES MF 825R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 2     |         |
| R229  | 011218  | RES MF 12R1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R230  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R231  | 018251  | RES MF 8K25 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 2     |         |
| R232  | 013010  | RES MF 301R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R233  | 017000  | RES MF 200R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 4     |         |
| R234  | 080106  | RES FL 5K00 .01% 1PPM      | VISHAY MARR | S102L             |       |    | EA -     |         |
| R235  | 014991  | RES MF 4K99 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R236  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA -     |         |
| R237  | 011501  | RES MF 1K50 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     |    | EA 1     |         |
| R238  | 050077  | RES MF 20K00 1% .12W 50PPM | HOLSWORTHY  | H8                |       |    | EA 1     |         |
| R239  | 050076  | RES MF 10K00 1% .12W 50PPM | HOLSWORTHY  | H8                |       |    | EA 1     |         |

| DESIG | PART NO | DESCRIPTION                | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|----------------------------|-------------|-------------------|-------|----|----------|---------|
| R240  | 000248  | RES CF 2R4 5% .25W         | NEOHM       | CFR25             | A     | EA | 1        |         |
| R241  | 011378  | RES MF 13R7 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R242  | 080105  | RES FL 10K00 .01% 1PPM     | VISHAY MARR | S102L             | A     | EA | -        |         |
| R243  | 080105  | RES FL 10K00 .01% 1PPM     | VISHAY MARR | S102L             | A     | EA | -        |         |
| R244  | 013012  | RES MF 30K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R245  | 012002  | RES MF 20K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R246  | 011502  | RES MF 15K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R247  | 011502  | RES MF 15K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R248  | 011828  | RES MF 18R2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R249  | 016491  | RES MF 68K9 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R250  | 011500  | RES MF 150R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R251  | 012212  | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R252  | 013652  | RES MF 36K5 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R253  | 013320  | RES MF 33R2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R254  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R255  | 013328  | RES MF 33R2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R256  | 013328  | RES MF 33R2 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R257  | 011000  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R258  | 018251  | RES MF 82K5 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R259  | 012210  | RES MF 22R1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R260  | 013010  | RES MF 30R1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R261  | 012000  | RES MF 200R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R262  | 011210  | RES MF 12R1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R263  | 000108  | RES CF 1R0 5% .25W         | NEOHM       | CFR25             | A     | EA | 1        |         |
| R264  | 00000N  | NOT FITTED                 |             |                   | A     | EA | -        |         |
| R265  | 042215  | RES MF 22M1 1% .12W 150PPM | MEPCO       | 5053YL            | A     | EA | 1        |         |
| R266  | 000685  | RES CF 6M8 5% .25W         | NEOHM       | CFR25             | A     | EA | 1        |         |
| R267  | 063105  | RES CT 1M HORIZ S/T        | BECKMAN     | 72P               | A     | EA | 1        |         |
| R268  | 011102  | RES MF 11K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R269  | 011102  | RES MF 11K0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R270  | 080105  | RES FL 10K00 .01% 1PPM     | VISHAY MARR | S102L             | A     | EA | -        |         |
| R271  | 012000  | RES MF 200R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R272  | 012000  | RES MF 200R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R301  | 011008  | RES MF 10R0 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R302  | 080120  | RES FL 19K78 .1% 1PPM      | VISHAY MARR | S102L             | A     | EA | 1        |         |
| R303  | 012670  | RES MF 267R 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R304  | 090063  | PTC THERMISTOR             | MULLARD     | KTY81-120         | A     | EA | 1        |         |
| R305  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R306  | 012213  | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R307  | 015112  | RES MF 51K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R308  | 014321  | RES MF 4K32 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R309  | 041824  | RES MF 18R2 1% .12W 100PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R310  | 048253  | RES MF 82K5 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R311  | 019532  | RES MF 95K3 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R312  | 012212  | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY  | H8C               | A     | EA | -        |         |

| DESIG | PART NO | DESCRIPTION                | PRINC MANUF   | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|----------------------------|---------------|-------------------|-------|----|----------|---------|
| R313  | 012001  | RES MF 2K00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R314  | 042374  | RES MF 2M37 1% .12W 100PPM | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R315  | 000476  | RES HM 47M 5% .25W         | ALLEN BRADLEY | CB                | A     | EA | 2        |         |
| R316  | 041005  | RES MF 10M0 1% .12W 100PPM | STATITE       | M82               | A     | EA | 2        |         |
| R317  | 012742  | RES MF 27K4 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R318  | 011303  | RES MF 130K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R319  | 016192  | RES MF 61K9 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R320  | 016811  | RES MF 68R1 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R321  | 012212  | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R322  | 063104  | RES CT 100K HORIZ S/T      | BECKMAN       | 72P               | A     | EA | -        |         |
| R323  | 011002  | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R324  | 011002  | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R325  | 014750  | RES MF 475R 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 3        |         |
| R326  | 013923  | RES MF 392K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R327  | 016192  | RES MF 61K9 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R328  | 013321  | RES MF 3K32 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R329  | 012261  | RES MF 2K26 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R330  | 012261  | RES MF 2K26 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R331  | 044753  | RES MF 475K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R332  | 044753  | RES MF 475K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R333  | 012001  | RES MF 2K00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R334  | 080107  | RES FL 100K .1% 1PPM       | VISHAY MARR   | S102L             | A     | EA | 1        |         |
| R335  | 080111  | RES FL 25K0 .1% 1PPM       | VISHAY MARR   | S102L             | A     | EA | 1        |         |
| R336  | 063103  | RES CT 10K HORIZ S/T       | BECKMAN       | 72P               | A     | EA | -        |         |
| R337  | 050011  | RES MF 3K3 1% .12W 15PPM   | HOLSWORTHY    | H8                | A     | EA | 1        |         |
| R338  | 050079  | RES MF 1K65 1% .12W 15PPM  | HOLSWORTHY    | H8                | A     | EA | 1        |         |
| R339  | 018250  | RES MF 825R 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R340  | 014020  | RES MF 402R 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R341  | 080121  | RES FL 119K .1% 1PPM       | VISHAY MARR   | S102L             | A     | EA | 1        |         |
| R342  | 050080  | RES MF 562K 1% .25W 15PPM  | HOLSWORTHY    | H4                | A     | EA | 1        |         |
| R343  | 012218  | RES MF 22R1 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 4        |         |
| R344  | 012218  | RES MF 22R1 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R346  | 063101  | RES CT 100R HORIZ S/T      | BECKMAN       | 72P               | A     | EA | 1        |         |
| R347  | 014758  | RES MF 47R5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 3        |         |
| R348  | 014758  | RES MF 47R5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R349  | 014758  | RES MF 47R5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R350  | 00000H  | NOT FITTED                 |               |                   | A     | EA | -        |         |
| R351  | 012003  | RES MF 200K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R352  | 011303  | RES MF 130K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R353  | 014322  | RES MF 43K2 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R354  | 00000K  | PART OF KIT                |               |                   | A     | EA | 1        |         |
| R355  | 012213  | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R356  | 012213  | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R357  | 011001  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R358  | 012213  | RES MF 22K1 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |

| DESIG | PART NO  | DESCRIPTION                | PRINC MANUF        | MANUF PART NUMBER    | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|----------------------------|--------------------|----------------------|-------|----|----------|---------|
| R359  | 000476   | RES HM 47M 5% .25W         | ALLEN BRADLEY      | CB                   | A     | EA | -        |         |
| R360  | 011002   | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R362  | 013323   | RES MF 332K 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | 1        |         |
| R363  | 008041   | RES MF 3R9 5% .3W          | MULLARD            | SFR25/3R9/5          |       | EA | 1        |         |
| R401  | 090017   | RES NTWK 100K x 7 2%       | BECKMAN            | LO8-1-R100K          |       | EA | 1        |         |
| R402  | 011000   | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R403  | 090168   | RES PACK 1K x 4 2%         | AB                 | AB-770-83-1K         |       | EA | 3        |         |
| R404  | 090105   | RES PACK 100R x 4 2%       | BECKMAN            | LO8-3-R100           |       | EA | 2        |         |
| R405  | 090105   | RES PACK 100R x 4 2%       | BECKMAN            | LO8-3-R100           |       | EA | -        |         |
| R406  | 090121   | RES NTWK 100K x 8 2%       | BECKMAN            | LO9-1-R100K          |       | EA | 2        |         |
| R407  | 090168   | RES PACK 1K x 4 2%         | AB                 | AB-770-83-1K         |       | EA | -        |         |
| R408  | 090168   | RES PACK 1K x 4 2%         | AB                 | AB-770-83-1K         |       | EA | -        |         |
| R409  | 090121   | RES NTWK 100K x 8 2%       | BECKMAN            | LO9-1-R100K          |       | EA | -        |         |
| R410  | 011003   | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R411  | 011000   | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R412  | 012742   | RES MF 27K4 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R413  | 016812   | RES MF 68K1 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | 1        |         |
| R414  | 090163   | RES NTWK 10K x 8 2%        | AB                 | 870-91-10K           |       | EA | 1        |         |
| R415  | 011001   | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R416  | 014752   | RES MF 47K5 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R417  | 041005   | RES MF 10M0 1% .12W 100PPM | STATITE            | MK2                  | A     | EA | -        |         |
| R418  | 000100   | RES CF 10R 5% .25W         | NEOHM              | CFR25                | A     | EA | 2        |         |
| R419  | 011823   | RES MF 182K 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | 1        |         |
| R420  | 000100   | RES CF 10R 5% .25W         | NEOHM              | CFR25                | A     | EA | -        |         |
| R421  | 012218   | RES MF 22R1 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R422  | 012218   | RES MF 22R1 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R423  | 013921   | RES MF 3K92 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | 1        |         |
| R424  | 011002   | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R425  | 090162   | RES PACK 270R x 4 2%       | AB                 | 770-83-270R          |       | EA | 1        |         |
| R426  | 090170   | RES PACK 470R x 4 2%       | AB                 | 770-83-470R          |       | EA | 1        |         |
| R427  | 013322   | RES MF 33K2 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | 1        |         |
| R428  | 012740   | RES MF 274R 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | 2        |         |
| R429  | 014750   | RES MF 475R 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R430  | 046813   | RES MF 681K 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | 1        |         |
| R431  | 045623   | RES MF 562K 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | 1        |         |
| R432  | 090078   | RES NTWK 470R x 7 2%       | BECKMAN            | LO8-1-R470           |       | EA | 1        |         |
| R433  | 012740   | RES MF 274R 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R434  | 014750   | RES MF 475R 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R435  | 011213   | RES MF 121K 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| R436  | 011000   | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY         | H8C                  | A     | EA | -        |         |
| C101  | 120001   | CAP PC 220HF 10% 1KV       | SUFLEX             | SH1380               |       | EA | 1        |         |
| C102  | 140076-1 | CAP VAR 16PF               | TROMSER            | SEE DRG              | A     | EA | 2        |         |
| C103  | 102228   | CAP CD 2P2F +/-1PF 500V    | BECK               | CD08AG02P2FSCR/SK500 | A     | EA | 1        |         |
| C104  | 140031   | CAP GL 13PF 5% 500V        | CORNING ELECTROSIL | CYFM10               |       | EA | 1        |         |
| C105  | 140062   | CAP GL 10PF 5% 500V        | CORNING ELECTROSIL | CYFM10               |       | EA | 1        |         |

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|-------|----------|---------------------------|--------------------|-----------------------|-------|----|----------|---------|
| C106  | 100102   | CAP CP 1NF 10% 100V       | PHILIPS            | 2222 630 19102        |       | EA | 6        |         |
| C107  | 120034   | CAP PC 220HF 1% 63V       | ASHCROFT           | A2B22101E             |       | EA | 1        |         |
| C108  | 104037   | CAP CD 22PF 10% 2KV       | MURATA             | DE0705SL220J2KV       |       | EA | 1        |         |
| C109  | 104034   | CAP CD 47PF 20% 1KV       | MURATA             | DE0705SL470J1KV       |       | EA | 1        |         |
| C110  | 100102   | CAP CP 1NF 10% 100V       | PHILIPS            | 2222 630 19102        |       | EA | -        |         |
| C111  | 100101   | CAP CD 100PF 2% 100V      | PHILIPS            | 2222 683 34101        |       | EA | 8        |         |
| C112  | 110042   | CAP PE 100HF 20% 63V      | WIMA               | MKS2                  |       | EA | 15       |         |
| C113  | 110042   | CAP PE 100HF 20% 63V      | WIMA               | MKS2                  |       | EA | -        |         |
| C114  | 150002   | CAP DT 10UF 20% 16V       | AVX                | TAP10M16F             | A     | EA | 1        |         |
| C119  | 101103   | CAP CD 10NF -20+80% 250V  | BECK               | CD10K310N02SCR/SK250  |       | EA | 6        |         |
| C120  | 110041   | CAP PE 10HF 20% 100V      | WIMA               | FKS2                  |       | EA | 1        |         |
| C121  | 104025   | CAP CD 100NF +80%-20% 50V | SIEMENS            | B37449                |       | EA | 18       |         |
| C122  | 104025   | CAP CD 100NF +80%-20% 50V | SIEMENS            | B37449                |       | EA | -        |         |
| C123  | 140070   | CAP GL 2H2F 1% 500V       | CORNING ELECTROSIL | CYFM20                |       | EA | 1        |         |
| C124  | 100820   | CAP CP 82PF 2% 100V       | PHILIPS            | 2222 683 34829        |       | EA | 1        |         |
| C125  | 102270   | CAP CD 27PF 5% 500V       | BECK               | CD10CG27P0M5SCR/SK500 | A     | EA | 1        |         |
| C126  | 100270   | CAP CP 27PF 2% 100V       | PHILIPS            | 2222 683 34279        |       | EA | 2        |         |
| C127  | 100100   | CAP CD 10PF 2% 100V       | PHILIPS            | 2222 683 10109        |       | EA | 2        |         |
| C128  | 104025   | CAP CD 100NF +80%-20% 50V | SIEMENS            | B37449                |       | EA | -        |         |
| C129  | 104025   | CAP CD 100NF +80%-20% 50V | SIEMENS            | B37449                |       | EA | -        |         |
| C130  | 150025   | CAP DT 303F 20% 35V       | AVX                | TAP3R3M35F            | A     | EA | 3        |         |
| C132  | 150025   | CAP DT 303F 20% 35V       | AVX                | TAP3R3M35F            | A     | EA | -        |         |
| C133  | 180041   | CAP AE 100UF 40V          | STEATITE           | EKM 00FD 310G         |       | EA | 1        |         |
| C134  | 00000H   | HOT FITTED                |                    |                       |       | EA | -        |         |
| C135  | 140076-1 | CAP VAR 16PF              | TROMSER            | SEE DRG               | A     | EA | -        |         |
| C136  | 100228   | CAP CP 2P2F +/-0P25F 100V | PHILIPS            | 2222-683-09228        |       | EA | 3        |         |
| C137  | 100228   | CAP CP 2P2F +/-0P25F 100V | PHILIPS            | 2222-683-09228        |       | EA | -        |         |
| C138  | 100108   | CAP CP 1PF +/-0P25F 100V  | PHILIPS            | 2222 683 03108        |       | EA | 1        |         |
| C139  | 100470   | CAP CP 47PF 2% 100V       | PHILIPS            | 2222 683 34479        |       | EA | 3        |         |
| C140  | 150025   | CAP DT 303F 20% 35V       | AVX                | TAP3R3M35F            | A     | EA | -        |         |
| C142  | 100470   | CAP CP 47PF 2% 100V       | PHILIPS            | 2222 683 34479        |       | EA | -        |         |
| C143  | 100470   | CAP CP 47PF 2% 100V       | PHILIPS            | 2222 683 34479        |       | EA | -        |         |
| C146  | 140067   | CAP GL 5P6F 5% 500V       | CORNING ELECTROSIL | CYFM10                |       | EA | 1        |         |
| C147  | 104017   | CAP CD 0P56F +/-0P1F 500V | ITT                | GD08AG0P56BS          |       | EA | 3        |         |
| C148  | 104017   | CAP CD 0P56F +/-0P1F 500V | ITT                | GD08AG0P56BS          |       | EA | -        |         |
| C149  | 102688   | CAP CD 6P8F +/-0P5F 500V  | BECK               | CD08CG06P8DSCR/SK500  |       | EA | 1        |         |
| C150  | 140072   | CAP GL 47PF 1% 500V       | CORNING ELECTROSIL | CYFM10                |       | EA | 1        |         |
| C151  | 140073   | CAP SM 330PF 1% 400V      | STC                | 454/51                |       | EA | 1        |         |
| C152  | 140071   | CAP GL 470PF 1% 500V      | CORNING ELECTROSIL | CYFM15                |       | EA | 1        |         |
| C153  | 140074   | CAP SM 68PF +/-1PF 400V   | STC                | 454/49                |       | EA | 2        |         |
| C154  | 110042   | CAP PE 100HF 20% 63V      | WIMA               | MKS2                  |       | EA | -        |         |
| C155  | 110042   | CAP PE 100HF 20% 63V      | WIMA               | MKS2                  |       | EA | -        |         |
| C156  | 102101   | CAP CD 100PF 20% 500V     | BECK               | CD10WK100PM5SCR/SK500 | A     | EA | 1        |         |
| C157  | 110042   | CAP PE 100HF 20% 63V      | WIMA               | MKS2                  |       | EA | -        |         |
| C158  | 110042   | CAP PE 100HF 20% 63V      | WIMA               | MKS2                  |       | EA | -        |         |

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|-------|---------|----------------------------|-------------|----------------------|-------|----|----------|---------|
| C159  | 100100  | CAP CD 10PF 2% 100V        | PHILIPS     | 2222 683 10109       |       | EA | -        |         |
| C160  | 100101  | CAP CD 100PF 2% 100V       | PHILIPS     | 2222 683 34101       |       | EA | -        |         |
| C161  | 150015  | CAP DT 10UF 20% 35V        | AVX         | TAP10M35F            | A     | EA | 10       |         |
| C162  | 150015  | CAP DT 10UF 20% 35V        | AVX         | TAP10M35F            | A     | EA | -        |         |
| C163  | 120021  | CAP PC 470HF 10% 63V       | ASHCROFT    | A2B4711B             |       | EA | 1        |         |
| C164  | 104025  | CAP CD 100NF +80%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C165  | 00000F  | RES FSV                    |             |                      |       | EA | -        |         |
| C166  | 104025  | CAP CD 100NF +80%-20% 50V  | SIEMENS     | B37449               |       | EA | -        |         |
| C167  | 104017  | CAP CD 0P56F +/-0P1F 500V  | ITT         | GD08AG0P56BS         |       | EA | -        |         |
| C168  | 150015  | CAP DT 10UF 20% 35V        | AVX         | TAP10M35F            | A     | EA | -        |         |
| C169  | 140074  | CAP SM 68PF +/-1PF 400V    | STC         | 454/49               |       | EA | -        |         |
| C170  | 10000F  | CAP - FSV                  |             |                      |       | EA | 1        |         |
| C201  | 150006  | CAP DT 407F 200% 16V       | AVX         | TAP4R7M16F           | A     | EA | 2        |         |
| C202  | 150006  | CAP DT 407F 200% 16V       | AVX         | TAP4R7M16F           | A     | EA | -        |         |
| C203  | 100338  | CAP CP 3P3F 2% 100V        | PHILIPS     | 2222 683 09338       |       | EA | 3        |         |
| C204  | 110042  | CAP PE 100NF 20% 63V       | WIMA        | MKS2                 |       | EA | -        |         |
| C205  | 104051  | CAP CD 2N2F 5% 100V        | AVX         | SR21COG              |       | EA | 1        |         |
| C206  | 150017  | CAP DT 100UF 20% 16V       | AVX         | TAP100M16F           | A     | EA | 6        |         |
| C207  | 110042  | CAP PE 100NF 20% 63V       | WIMA        | MKS2                 |       | EA | -        |         |
| C208  | 100101  | CAP CD 100PF 2% 100V       | PHILIPS     | 2222 683 34101       |       | EA | -        |         |
| C209  | 101103  | CAP CD 10NF -20+80% 250V   | BECK        | CD10K310H0ZSCR/SK250 |       | EA | -        |         |
| C210  | 101103  | CAP CD 10NF -20+80% 250V   | BECK        | CD10K310H0ZSCR/SK250 |       | EA | -        |         |
| C211  | 00000H  | NOT FITTED                 |             |                      |       | EA | -        |         |
| C212  | 00000H  | NOT FITTED                 |             |                      |       | EA | -        |         |
| C213  | 100478  | CAP CP 4P7F 2% 100V        | PHILIPS     | 2222 683 09478       |       | EA | 4        |         |
| C214  | 150017  | CAP DT 100UF 20% 16V       | AVX         | TAP100M16F           | A     | EA | -        |         |
| C215  | 100338  | CAP CP 3P3F 2% 100V        | PHILIPS     | 2222 683 09338       |       | EA | -        |         |
| C216  | 100338  | CAP CP 3P3F 2% 100V        | PHILIPS     | 2222 683 09338       |       | EA | -        |         |
| C217  | 100478  | CAP CP 4P7F 2% 100V        | PHILIPS     | 2222 683 09478       |       | EA | -        |         |
| C218  | 100478  | CAP CP 4P7F 2% 100V        | PHILIPS     | 2222 683 09478       |       | EA | -        |         |
| C219  | 110042  | CAP PE 100NF 20% 63V       | WIMA        | MKS2                 |       | EA | -        |         |
| C220  | 100221  | CAP CP 220PF 2% 100V       | PHILIPS     | 2222 683 58221       |       | EA | 1        |         |
| C221  | 150017  | CAP DT 100UF 20% 16V       | AVX         | TAP100M16F           | A     | EA | -        |         |
| C222  | 110042  | CAP PE 100NF 20% 63V       | WIMA        | MKS2                 |       | EA | -        |         |
| C223  | 100101  | CAP CD 100PF 2% 100V       | PHILIPS     | 2222 683 34101       |       | EA | -        |         |
| C224  | 101103  | CAP CD 10NF -20+80% 250V   | BECK        | CD10K310H0ZSCR/SK250 |       | EA | -        |         |
| C225  | 101103  | CAP CD 10NF -20+80% 250V   | BECK        | CD10K310H0ZSCR/SK250 |       | EA | -        |         |
| C226  | 150015  | CAP DT 10UF 20% 35V        | AVX         | TAP10M35F            | A     | EA | -        |         |
| C227  | 150015  | CAP DT 10UF 20% 35V        | AVX         | TAP10M35F            | A     | EA | -        |         |
| C228  | 100270  | CAP CP 27PF 2% 100V        | PHILIPS     | 2222 683 34279       |       | EA | -        |         |
| C229  | 100478  | CAP CP 4P7F 2% 100V        | PHILIPS     | 2222 683 09478       |       | EA | -        |         |
| C230  | 150017  | CAP DT 100UF 20% 16V       | AVX         | TAP100M16F           | A     | EA | -        |         |
| C231  | 00000H  | NOT FITTED                 |             |                      |       | EA | -        |         |
| C232  | 00000H  | NOT FITTED                 |             |                      |       | EA | -        |         |
| C233  | 100188  | CAP CP 1p8F +/- 0P25F 100V | PHILIPS     | 2222 693 09188       |       | EA | 1        |         |

| DESIG | PART NO | DESCRIPTION               | PRINC MANUF | MANUF PART NUMBER     | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|---------------------------|-------------|-----------------------|-------|----|----------|---------|
| C234  | 110035  | CAP PE 220nF 20% 63V      | WIMA        | MKS2                  |       | EA | 2        |         |
| C235  | 110035  | CAP PE 220nF 20% 63V      | WIMA        | MKS2                  |       | EA | -        |         |
| C237  | 102398  | CAP CD 3p9F +/-0p5F 500V  | BECK        | CD08AG03P9DSCR/SK500  | A     | EA | 1        |         |
| C238  | 00000H  | NOT FITTED                |             |                       |       | EA | -        |         |
| C301  | 120018  | CAP PC 1U5F 10% 63V       | ASHCROFT    | A2B1521B              |       | EA | 4        |         |
| C303  | 140075  | CAP PP 330NF 10% 160V     | WIMA        | MKP10                 |       | EA | 2        |         |
| C304  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449                |       | EA | 2        |         |
| C305  | 104026  | CAP CD 47NF +50%-20% 50V  | SIEMENS     | B37449                |       | EA | -        |         |
| C306  | 120018  | CAP PC 1U5F 10% 63V       | ASHCROFT    | A2B1521B              |       | EA | -        |         |
| C308  | 120018  | CAP PC 1U5F 10% 63V       | ASHCROFT    | A2B1521B              |       | EA | -        |         |
| C309  | 140075  | CAP PP 330NF 10% 160V     | WIMA        | MKP10                 |       | EA | -        |         |
| C310  | 110042  | CAP PE 100NF 20% 63V      | WIMA        | MKS2                  |       | EA | -        |         |
| C311  | 110042  | CAP PE 100NF 20% 63V      | WIMA        | MKS2                  |       | EA | -        |         |
| C312  | 100101  | CAP CD 100PF 2% 100V      | PHILIPS     | 2222 683 34101        |       | EA | -        |         |
| C313  | 110042  | CAP PE 100NF 20% 63V      | WIMA        | MKS2                  |       | EA | -        |         |
| C314  | 150015  | CAP DT 10UF 20% 35V       | AVX         | TAP10M35F             | A     | EA | -        |         |
| C315  | 150015  | CAP DT 10UF 20% 35V       | AVX         | TAP10M35F             | A     | EA | -        |         |
| C316  | 102332  | CAP CD 3n3F +40-20% 500V  | BECK        | CD08K303NXXSCR/SK500D | A     | EA | 1        |         |
| C317  | 110042  | CAP PE 100NF 20% 63V      | WIMA        | MKS2                  |       | EA | -        |         |
| C318  | 150015  | CAP DT 10UF 20% 35V       | AVX         | TAP10M35F             | A     | EA | -        |         |
| C319  | 150015  | CAP DT 10UF 20% 35V       | AVX         | TAP10M35F             | A     | EA | -        |         |
| C320  | 150017  | CAP DT 100UF 20% 16V      | AVX         | TAP100M16F            | A     | EA | -        |         |
| C321  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449                |       | EA | -        |         |
| C322  | 100220  | CAP CP 22PF 2% 100V       | PHILIPS     | 2222 683 34229        |       | EA | 1        |         |
| C323  | 120018  | CAP PC 1U5F 10% 63V       | ASHCROFT    | A2B1521B              |       | EA | -        |         |
| C324  | 110015  | CAP PE 15NF 20% 63V       | WIMA        | MKS2                  |       | EA | 1        |         |
| C401  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449                |       | EA | -        |         |
| C402  | 150015  | CAP DT 10UF 20% 35V       | AVX         | TAP10M35F             | A     | EA | -        |         |
| C403  | 100151  | CAP CP 150PF 2% 100V      | PHILIPS     | 2222 683 34151        |       | EA | 3        |         |
| C404  | 100151  | CAP CP 150PF 2% 100V      | PHILIPS     | 2222 683 34151        |       | EA | -        |         |
| C405  | 100102  | CAP CP 1NF 10% 100V       | PHILIPS     | 2222 630 19102        |       | EA | -        |         |
| C406  | 100150  | CAP CP 15PF 2% 100V       | PHILIPS     | 2222 683 10159        |       | EA | 2        |         |
| C407  | 100102  | CAP CP 1NF 10% 100V       | PHILIPS     | 2222 630 19102        |       | EA | -        |         |
| C408  | 100151  | CAP CP 150PF 2% 100V      | PHILIPS     | 2222 683 34151        |       | EA | -        |         |
| C409  | 100101  | CAP CD 100PF 2% 100V      | PHILIPS     | 2222 683 34101        |       | EA | -        |         |
| C410  | 100101  | CAP CD 100PF 2% 100V      | PHILIPS     | 2222 683 34101        |       | EA | -        |         |
| C411  | 100101  | CAP CD 100PF 2% 100V      | PHILIPS     | 2222 683 34101        |       | EA | -        |         |
| C412  | 120016  | CAP PC 2N2F 20% 100V      | WIMA        | FKC2                  |       | EA | 3        |         |
| C413  | 120016  | CAP PC 2N2F 20% 100V      | WIMA        | FKC2                  |       | EA | -        |         |
| C414  | 120016  | CAP PC 2N2F 20% 100V      | WIMA        | FKC2                  |       | EA | -        |         |
| C415  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449                |       | EA | -        |         |
| C416  | 100102  | CAP CP 1NF 10% 100V       | PHILIPS     | 2222 630 19102        |       | EA | -        |         |
| C417  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339        |       | EA | 3        |         |
| C418  | 100150  | CAP CP 15PF 2% 100V       | PHILIPS     | 2222 683 10159        |       | EA | -        |         |
| C419  | 100102  | CAP CP 1NF 10% 100V       | PHILIPS     | 2222 630 19102        |       | EA | -        |         |

| DESIG | PART NO | DESCRIPTION               | PRINC MANUF    | MANUF PART NUMBER    | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|---------------------------|----------------|----------------------|-------|----|----------|---------|
| C420  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS        | 2222 693 34339       | EA    | -  |          |         |
| C421  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS        | 2222 693 34339       | EA    | -  |          |         |
| C422  | 100228  | CAP CP 2P2F +/-0P25F 100V | PHILIPS        | 2222-693-09228       | EA    | -  |          |         |
| C423  | 150016  | CAP DT 10F 20% 35V        | AVX            | TAP100M15F           | A     | EA | 1        |         |
| C424  | 110042  | CAP PE 100NF 20% 63V      | WIMA           | MKS2                 | EA    | -  |          |         |
| C425  | 100472  | CAP CP 4H7F 10% 100V      | PHILIPS        | 2222 630 19472       | EA    | 1  |          |         |
| C426  | 101103  | CAP CD 10NF -20+80% 250V  | BECK           | CD10K310N0ZSCR/SK250 | EA    | -  |          |         |
| C427  | 100828  | CAP CP 8P2F +/-0P25F 100V | PHILIPS        | 2222 693 09828       | EA    | 1  |          |         |
| C428  | 104056  | CAP CER 1C 20NF 50V       | ROGERS CORP    | O-14 20              | EA    | 1  |          |         |
| C429  | 150017  | CAP DT 100UF 20% 16V      | AVX            | TAP100M16F           | A     | EA | -        |         |
| C430  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS        | B37449               | EA    | -  |          |         |
| C431  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS        | B37449               | EA    | -  |          |         |
| C432  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS        | B37449               | EA    | -  |          |         |
| C433  | 102478  | CAP CD 4P7F +/-5PF 500V   | BECK           | B37449               | EA    | -  |          |         |
| C434  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS        | AG04P7DSCR/SK500DSG  | A     | EA | 1        |         |
| C435  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS        | B37449               | EA    | -  |          |         |
| C436  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS        | B37449               | EA    | -  |          |         |
| C437  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS        | B37449               | EA    | -  |          |         |
| C438  | 102470  | CAP CD 47PF 5% 500V       | BECK           | CD10TH47POMSCR/SK500 | A     | EA | 1        |         |
| C439  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS        | B37449               | EA    | -  |          |         |
| C440  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS        | B37449               | EA    | -  |          |         |
| D101  | 210100  | DIODE ZN 10V 400mW        | PHILIPS        | BZX79C10             | A     | EA | 2        |         |
| D102  | 210100  | DIODE ZN 10V 400mW        | PHILIPS        | BZX79C10             | A     | EA | -        |         |
| D103  | 213011  | DIODE VR 1V5 250mW        | PHILIPS        | BZV46-1V5            | A     | EA | 3        |         |
| D104  | 210120  | DIODE ZN 12V 400mW        | PHILIPS        | BZX79C12             | A     | EA | 1        |         |
| D105  | 200001  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148               | EA    | 14 |          |         |
| D106  | 200001  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148               | EA    | -  |          |         |
| D107  | 200001  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148               | EA    | -  |          |         |
| D108  | 210068  | DIODE ZN 6V8 400mW        | PHILIPS        | BZX79C6V8            | A     | EA | 3        |         |
| D109  | 210075  | DIODE ZN 7V5 400mW        | PHILIPS        | BZX79C7V5            | A     | EA | 1        |         |
| D110  | 200001  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148               | EA    | -  |          |         |
| D111  | 200001  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148               | EA    | -  |          |         |
| D112  | 200001  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148               | EA    | -  |          |         |
| D113  | 210033  | DIODE ZN 3V3 400mW        | PHILIPS        | BZX79C3V3            | A     | EA | 2        |         |
| D114  | 210033  | DIODE ZN 3V3 400mW        | PHILIPS        | BZX79C3V3            | A     | EA | -        |         |
| D115  | 200028  | DIODE SB 1A 30V           | INT RECTIFIERS | 11DQ04               | EA    | 4  |          |         |
| D116  | 200028  | DIODE SB 1A 30V           | INT RECTIFIERS | 11DQ04               | EA    | -  |          |         |
| D117  | 200028  | DIODE SB 1A 30V           | INT RECTIFIERS | 11DQ04               | EA    | -  |          |         |
| D118  | 200028  | DIODE SB 1A 30V           | INT RECTIFIERS | 11DQ04               | EA    | -  |          |         |
| D119  | 213011  | DIODE VR 1V5 250mW        | PHILIPS        | BZV46-1V5            | EA    | -  |          |         |
| D120  | 200001  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148               | EA    | -  |          |         |
| D121  | 200001  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148               | EA    | -  |          |         |
| D122  | 200001  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148               | EA    | -  |          |         |
| D123  | 220043  | DIODE JFET 10mA           | SILICONIX      | JPAD100              | EA    | 3  |          |         |
| D124  | 220043  | DIODE JFET 10mA           | SILICONIX      | JPAD100              | EA    | -  |          |         |

| DESIG | PART NO | DESCRIPTION            | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|------------------------|-------------|-------------------|-------|----|----------|---------|
| D125  | 230089  | TRAN JFET I LIM 240uA  | SILICONIX   | J500              | EA    | 1  |          |         |
| D126  | 230001  | TRAN J FET I LIM 1.4mA | SILICONIX   | J506              | EA    | 2  |          |         |
| D127  | 230001  | TRAN J FET I LIM 1.4mA | SILICONIX   | J506              | EA    | -  |          |         |
| D128  | 210056  | DIODE ZN 5V6 400mW     | PHILIPS     | BZX79C5V6         | A     | EA | 1        |         |
| D129  | 200001  | DIODE GP 75mA 75V      | FAIRCHILD   | 1N4148            | EA    | -  |          |         |
| D130  | 210051  | DIODE ZN 5V1 400mW     | PHILIPS     | BZX79C5V1         | A     | EA | 3        |         |
| D201  | 200001  | DIODE GP 75mA 75V      | FAIRCHILD   | 1N4148            | EA    | -  |          |         |
| D202  | 200001  | DIODE GP 75mA 75V      | FAIRCHILD   | 1N4148            | EA    | -  |          |         |
| D203  | 213011  | DIODE VR 1V5 250mW     | PHILIPS     | BZV46-1V5         | EA    | -  |          |         |
| D204  | 230058  | TRAN JFET I LIM 750UA  | SILICONIX   | J504              | EA    | 1  |          |         |
| D205  | 200008  | DIODE GP 200mA 125V    | FAIRCHILD   | 1N458A            | A     | EA | 6        |         |
| D206  | 230049  | TRAN JFET I LIM 560UA  | SILICONIX   | J503              | EA    | 1  |          |         |
| D207  | 210068  | DIODE ZN 6V8 400mW     | PHILIPS     | BZX79C6V8         | A     | EA | -        |         |
| D209  | 220010  | DIODE GP SB            | H.P.        | 1N5711            | A     | EA | 2        |         |
| D210  | 220010  | DIODE GP SB            | H.P.        | 1N5711            | A     | EA | -        |         |
| D211  | 200008  | DIODE GP 200mA 125V    | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D212  | 210068  | DIODE ZN 6V8 400mW     | PHILIPS     | BZX79C6V8         | A     | EA | -        |         |
| D213  | 200001  | DIODE GP 75mA 75V      | FAIRCHILD   | 1N4148            | EA    | -  |          |         |
| D215  | 220043  | DIODE JFET 10mA        | SILICONIX   | JPAD100           | EA    | -  |          |         |
| D216  | 200008  | DIODE GP 200mA 125V    | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D303  | 210051  | DIODE ZN 5V1 400mW     | PHILIPS     | BZX79C5V1         | A     | EA | -        |         |
| D304  | 210051  | DIODE ZN 5V1 400mW     | PHILIPS     | BZX79C5V1         | A     | EA | -        |         |
| D305  | 200008  | DIODE GP 200mA 125V    | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D306  | 200008  | DIODE GP 200mA 125V    | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D307  | 200008  | DIODE GP 200mA 125V    | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D308  | 200008  | DIODE GP 200mA 125V    | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D309  | 200008  | DIODE GP 200mA 125V    | FAIRCHILD   | 1N458A            | A     | EA | -        |         |
| D401  | 200002  | DIODE GP 1A 50V        | FAIRCHILD   | 1N4001            | EA    | 1  |          |         |
| D402  | 213009  | DIODE ZN 15V 5W        | UNITRODE    | TVS515            | EA    | 2  |          |         |
| D403  | 213009  | DIODE ZN 15V 5W        | UNITRODE    | TVS515            | EA    | -  |          |         |
| D404  | 200001  | DIODE GP 75mA 75V      | FAIRCHILD   | 1N4148            | EA    | -  |          |         |
| D405  | 230071  | TRAN JFET I LIM 2m1A   | TELEDYNE    | TCR508            | EA    | 1  |          |         |
| D406  | 213006  | DIODE ZN 5V 5W         | UNITRODE    | TVS505            | EA    | 1  |          |         |
| Q101  | 230070  | TRAN JFET N-CHAN DUAL  | SILICONIX   | 2N5911            | EA    | 1  |          |         |
| Q102  | 250004  | TRAN PHP TO92          | NATIONAL    | 2N3906            | EA    | 4  |          |         |
| Q103  | 240006  | TRAN NPN TO92          | MOTOROLA    | 2N3904            | EA    | 11 |          |         |
| Q104  | 230002  | TRAN JFET N-CHAN       | SILICONIX   | J304              | EA    | 2  |          |         |
| Q105  | 230002  | TRAN JFET N-CHAN       | SILICONIX   | J304              | EA    | -  |          |         |
| Q106  | 240006  | TRAN NPN TO92          | MOTOROLA    | 2N3904            | EA    | -  |          |         |
| Q107  | 240006  | TRAN NPN TO92          | MOTOROLA    | 2N3904            | EA    | -  |          |         |
| Q108  | 240013  | TRAN NPN TO18          | NATIONAL    | BC184C/TO18       | EA    | 2  |          |         |
| Q109  | 250008  | TRAN PHP TO18          | NATIONAL    | BC214C/TO18       | EA    | 3  |          |         |
| Q110  | 240006  | TRAN NPN TO92          | MOTOROLA    | 2N3904            | EA    | -  |          |         |
| Q111  | 240006  | TRAN NPN TO92          | MOTOROLA    | 2N3904            | EA    | -  |          |         |
| Q112  | 230003  | TRAN JFET N CHAN       | TELEDYNE    | U1899JF           | EA    | 3  |          |         |

| DESIG | PART NO  | DESCRIPTION               | PRINC MANUF          | MANUF PART NUMBER | CLASS | UM   | QUANTITY | CHANGES |
|-------|----------|---------------------------|----------------------|-------------------|-------|------|----------|---------|
| Q113  | 240006   | TRAN NPN TO92             | MOTOROLA             | 2N3904            | EA    | -    |          |         |
| Q114  | 239091-1 | TRAN JFET SET N CHAN      | DATRON               | SEE DRG.          | S2    | 1    |          |         |
| Q115  | 230056   | TRAN JFET N-CHAN          | TELEDYNE             | J212              | EA    | 2    |          |         |
| Q116  | 230035   | TRAN JFET N-CHAN          | TELEDYNE             | U1897JF           | EA    | 2    |          |         |
| Q117  | 230035   | TRAN JFET N-CHAN          | TELEDYNE             | U1897JF           | EA    | -    |          |         |
| Q118  | 250004   | TRAN PNP TO92             | NATIONAL             | 2N3906            | EA    | -    |          |         |
| Q119  | 239091-1 | TRAN JFET SET N CHAN      | DATRON               | SEE DRG.          | S2    | -    |          |         |
| Q120  | 240006   | TRAN NPN TO92             | MOTOROLA             | 2N3904            | EA    | -    |          |         |
| Q121  | 230056   | TRAN JFET N-CHAN          | TELEDYNE             | J212              | EA    | -    |          |         |
| Q201  | 240020   | TRAN NPN DUAL             | PMI                  | MAT01GH           | EA    | 1    |          |         |
| Q202  | 239087-1 | TRAN JFET SET J106 X 2    | DATRON               | SEE DRG           | S2    | 1    |          |         |
| Q203  | 239087-1 | TRAN JFET SET J106 X 2    | DATRON               | SEE DRG           | S2    | -    |          |         |
| Q204  | 240006   | TRAN NPN TO92             | MOTOROLA             | 2N3904            | EA    | -    |          |         |
| Q205  | 240040   | TRAN NPN                  | MOTOROLA             | 2N5179            | EA    | 1    |          |         |
| Q206  | 250008   | TRAN PNP TO18             | NATIONAL             | BC214C/TO18       | EA    | -    |          |         |
| Q207  | 250004   | TRAN PNP TO92             | NATIONAL             | 2N3906            | EA    | -    |          |         |
| Q208  | 240006   | TRAN NPN TO92             | MOTOROLA             | 2N3904            | EA    | -    |          |         |
| Q209  | 240029   | TRAN NPN                  | MOTOROLA             | BC546             | EA    | 1    |          |         |
| Q210  | 240041   | TRAN NPN                  | MOTOROLA             | BF374             | EA    | 1    |          |         |
| Q211  | 250008   | TRAN PNP TO18             | NATIONAL             | BC214C/TO18       | EA    | -    |          |         |
| Q212  | 250004   | TRAN PNP TO92             | NATIONAL             | 2N3906            | EA    | -    |          |         |
| Q213  | 240006   | TRAN NPN TO92             | MOTOROLA             | 2N3904            | EA    | -    |          |         |
| Q301  | 230083   | TRAN JFET N-CHAN          | SILICONIX            | PH4117A           | EA    | 1    |          |         |
| Q302  | 240013   | TRAN NPN TO18             | NATIONAL             | BC184C/TO18       | EA    | -    |          |         |
| Q303  | 230003   | TRAN JFET N CHAN          | TELEDYNE             | U1899JF           | EA    | -    |          |         |
| Q304  | 230003   | TRAN JFET N CHAN          | TELEDYNE             | U1899JF           | EA    | -    |          |         |
| Q401  | 230086   | TRAN MOSFET P-CHAN 60V    | FERRANTI             | ZVP2106A          | EA    | 2    |          |         |
| Q402  | 230086   | TRAN MOSFET P-CHAN 60V    | FERRANTI             | ZVP2106A          | EA    | -    |          |         |
| Q403  | 240006   | TRAN NPN TO92             | MOTOROLA             | 2N3904            | EA    | -    |          |         |
| Q404  | 230081   | TRAN MOSFET N-CHAN        | FERRANTI             | ZVN0106A          | A     | EA 1 |          |         |
| M101  | 260082   | IC LIN OP AMP CHOPPER     | LINEAR TECHNOLOGY    | LTC1052CN8        | EA    | 2    |          |         |
| M102  | 260105   | IC LIN OP AMP FET IP DUAL | BURR BROWN           | OPA606KM          | EA    | 1    |          |         |
| M103  | 260106   | IC LIN OP AMP DUAL        | MOTOROLA             | MC34082P          | EA    | 1    |          |         |
| M104  | 260073   | IC LIN OP AMP             | NATIONAL             | LF411CN           | EA    | 1    |          |         |
| M201  | 260103   | IC LIN OP AMP             | PRECISION MONOLITHIC | OP77EP            | EA    | 2    |          |         |
| M202  | 260103   | IC LIN OP AMP             | PRECISION MONOLITHIC | OP77EP            | EA    | -    |          |         |
| M301  | 260108   | IC LIN OP AMP             | LINEAR TECHNOLOGY    | LT1012CN8         | EA    | 3    |          |         |
| M302  | 280116   | IC DIG MULTIPLEXER 8-CHAN | SILICONIX            | DG509ACJ          | EA    | 2    |          |         |
| M303  | 260107   | IC LIN OP AMP             | PRECISION MONOLITHIC | OP07CP            | EA    | 1    |          |         |
| M304  | 280116   | IC DIG MULTIPLEXER 8-CHAN | SILICONIX            | DG509ACJ          | EA    | -    |          |         |
| M305  | 260082   | IC LIN OP AMP CHOPPER     | LINEAR TECHNOLOGY    | LTC1052CN8        | EA    | -    |          |         |
| M306  | 260108   | IC LIN OP AMP             | LINEAR TECHNOLOGY    | LT1012CN8         | EA    | -    |          |         |
| M307  | 290170-1 | RMS KIT SELECTED          | DATRON               | SEE DRG           | EA    | 1    |          |         |
| M308  | 260108   | IC LIN OP AMP             | LINEAR TECHNOLOGY    | LT1012CN8         | EA    | -    |          |         |
| M401  | 280132   | IC DIG ULA SERIAL TX/RX   | PLESSEY              | CLA3106           | EA    | 3    |          |         |

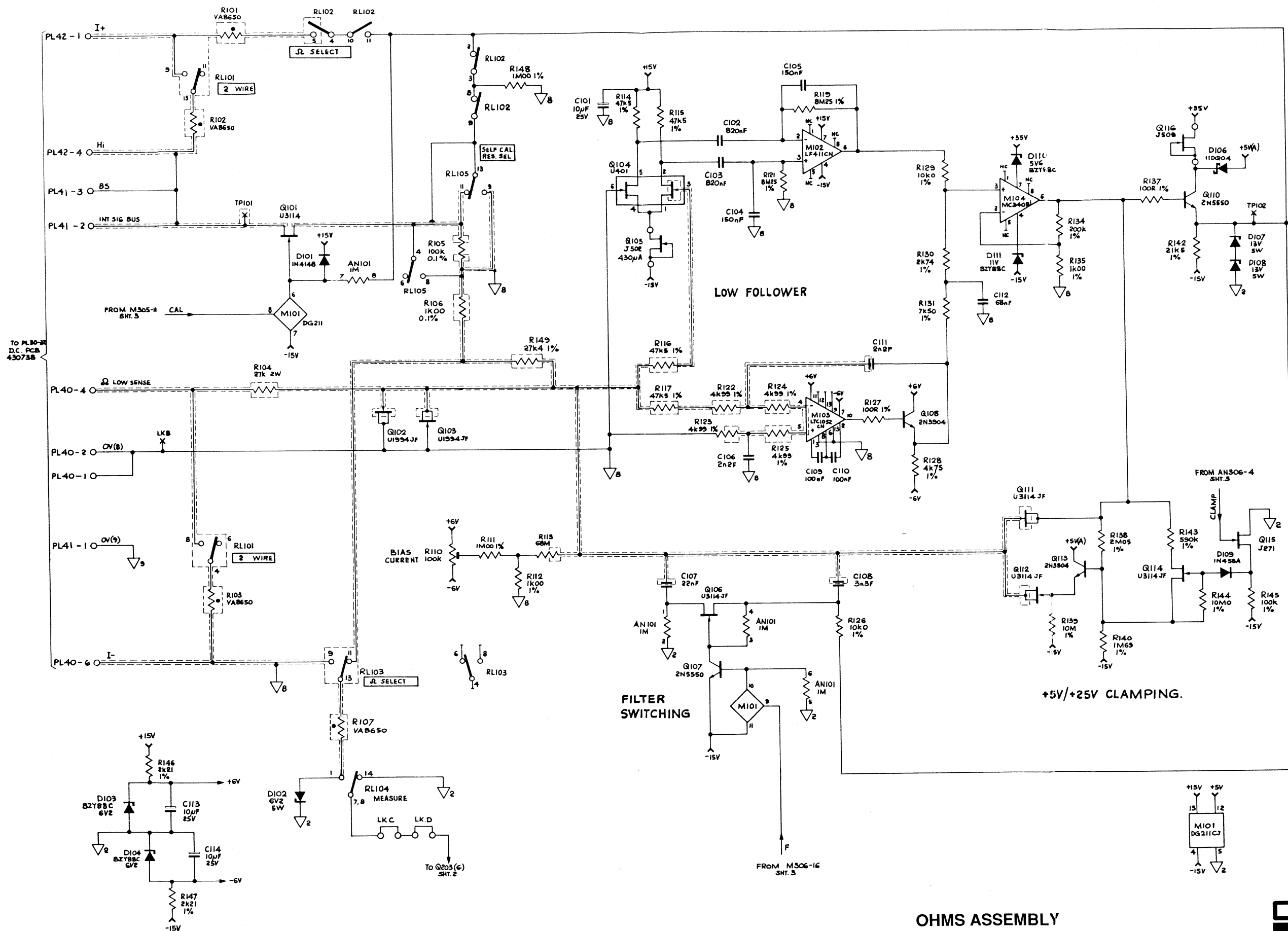
| DESIG | PART NO  | DESCRIPTION                  | PRINC MANUF  | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|------------------------------|--------------|-------------------|-------|----|----------|---------|
| M402  | 280132   | IC DIG ULA SERIAL TX/RX      | PLESSEY      | CLA3106           | EA    | -  |          |         |
| M403  | 280132   | IC DIG ULA SERIAL TX/RX      | PLESSEY      | CLA3106           | EA    | -  |          |         |
| M404  | 290089   | IC DIG 7 X DARLINGTON DRIVER | SPRAGUE/EXAR | ULN2003A/XR2203CP | EA    | 1  |          |         |
| M405  | 260039   | IC LIN OP AMP QUAD           | NATIONAL     | LM324N            | EA    | 2  |          |         |
| M406  | 260039   | IC LIN OP AMP QUAD           | NATIONAL     | LM324N            | EA    | -  |          |         |
| M407  | 280152   | IC DIG SCHMIDT NAND2 QUAD    | MOTOROLA     | MC14093BCP        | EA    | 1  |          |         |
| M408  | 280160   | IC DIG FLIP/FLOP JK DUAL HCT | TEXAS        | 74HCT74           | EA    | 1  |          |         |
| M409  | 260049   | IC LIN V COMP DUAL           | NATIONAL     | LM319N            | EA    | 1  |          |         |
| M410  | 290149   | IC DIG CMOS TIMER            | INTERSIL     | ICM7555 1PA       | EA    | 1  |          |         |
| M411  | 280102   | IC DIG COUNTER BIN           | SIGNETICS    | HEF4020BP         | EA    | 1  |          |         |
| M412  | 280131   | IC DIG F/LL ULA              | PLESSEY      | CLA5532           | EA    | 1  |          |         |
| RL101 | 330031   | RELAY 2PHO 2PNC              | SDS          | S2-24V            | EA    | 4  |          |         |
| RL102 | 330031   | RELAY 2PHO 2PNC              | SDS          | S2-24V            | EA    | -  |          |         |
| RL103 | 330031   | RELAY 2PHO 2PNC              | SDS          | S2-24V            | EA    | -  |          |         |
| RL104 | 330049-1 | RELAY 1PHO REED GUARDED      | GENTECH      | SEE DRG           | EA    | 3  |          |         |
| RL105 | 330049-1 | RELAY 1PHO REED GUARDED      | GENTECH      | SEE DRG           | EA    | -  |          |         |
| RL106 | 330049-1 | RELAY 1PHO REED GUARDED      | GENTECH      | SEE DRG           | EA    | -  |          |         |
| RL107 | 330031   | RELAY 2PHO 2PNC              | SDS          | S2-24V            | EA    | -  |          |         |
| L301  | 370033   | CHOKE 1mH                    | SIGMA        | SC30S             | EA    | 1  |          |         |
| PL30  | 604075   | PLUG PCB 6-WAY .1"           | MOLEX        | 22-29-2061        | EA    | 1  |          |         |
| PL31  | 604074   | PLUG PCB 3-WAY .1"           | MOLEX        | 22-29-3031        | EA    | 1  |          |         |
| PL32  | 604033   | PLUG PCB 4-WAY .1"           | MOLEX        | 22-29-2041        | EA    | 1  |          |         |
| FL33  | 604076   | PLUG PCB 16-WAY .1"X.1" GRID | 3M           | 3599-6002 UN      | EA    | 1  |          |         |
| TL101 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           | EA    | 9  |          |         |
| TL102 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           | EA    | -  |          |         |
| TL103 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           | EA    | -  |          |         |
| TL301 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           | EA    | -  |          |         |
| TL302 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           | EA    | -  |          |         |
| TL303 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           | EA    | -  |          |         |
| TL304 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           | EA    | -  |          |         |
| TL305 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           | EA    | -  |          |         |
| TL306 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           | EA    | -  |          |         |
| TP101 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | 29 |          |         |
| TP102 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP103 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP104 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP105 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP106 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP108 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP109 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP110 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP111 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP213 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP214 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |
| TP215 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          | EA    | -  |          |         |



| DESIG | PART NO  | DESCRIPTION                 | PRINC MANUF          | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|-----------------------------|----------------------|-------------------|-------|----|----------|---------|
| TP216 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP217 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP218 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP232 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP319 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP320 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP422 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP423 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP424 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP425 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP426 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP427 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP428 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP429 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP430 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| TP431 | 620007   | TEST POINT TERMINAL         | MICROVAR             | TYPE C30          | EA    | -  |          |         |
| X401  | 800036   | CRYSTAL OSC 4.000MHZ        | EURO-QUARTZ          | EQXO-1100HC       | EA    | 1  |          |         |
|       | 400753-1 | ASSY CABLE SIG TP 1281      | DATRON               | SEE DRG           | EA    | 1  |          |         |
|       | 400757-1 | ASSY CABLE RIBBON 16W       | DATRON               | SEE DRG           | EA    | 1  |          |         |
|       | 410365-1 | PCB AC 1281                 |                      | SEE DRG           | EA    | 1  |          |         |
|       | 450568-4 | GUARD SHIELD AC 1281        |                      | SEE DRG           | EA    | 1  |          |         |
|       | 512999   | WIRE 7/.2 PTFE 1KV WHI      | BSG210               | TYPE C            | AR    | 80 |          |         |
|       | 540002   | WIRE 1/.7 TINNED COPPER     | BS4109               | 22SWG             | AR    | 1  |          |         |
|       | 560002   | CABLE AX 2.54mm 7/34AWG     | MIL-C17D             | RG174U            | MM    | 95 |          |         |
|       | 590004   | SLEEVE PTFE 1mm BLK         | HELLERMAN            | FE10              | AR    | 1  |          |         |
|       | 590074   | SLEEVE SOLDER DIAM.3.0      | RAYFAST              | CWT-3             | EA    | 2  |          |         |
|       | 602001   | TERMINAL FSV                | MOLEX                | 02-04-5114        | EA    | 4  |          |         |
|       | 605059   | SOCKET PCB 8-WAY DIL        | JERMYN               | J23-18008         | A     | EA | 8        |         |
|       | 605060   | SOCKET PCB 14-WAY DIL       | JERMYN               | J23-18014         | A     | EA | 5        |         |
|       | 605061   | SOCKET PCB 16-WAY DIL       | JERMYN               | J23-18016         | A     | EA | 4        |         |
|       | 605062   | SOCKET PCB 18-WAY DIL       | JERMYN               | J23-18018         |       | EA | 3        |         |
|       | 605065   | SOCKET PCB 28 WAY DIL       | JERMYN               | J23-18028         |       | EA | 1        |         |
|       | 611015   | SCREW M3 X 8 POZICSK SZP    |                      |                   |       | EA | 4        |         |
|       | 612031-1 | STANDOFF M3 X 16            |                      | SEE DRG           |       | EA | 4        |         |
|       | 613017   | WASHER M3 NYL.              |                      |                   |       | EA | 1        |         |
|       | 620002   | STANDOFF PTFE INSUL.        | SEAELECTRO           | 013-1000-040519   | A     | EA | 5        |         |
|       | 620005   | CLOVERLEAF LARGE PTFE       | SEAELECTRO           | 011-6809-040599   | A     | EA | 13       |         |
|       | 630024   | BEAD CERAMIC 16 SWG         | PARK ROYAL PORCELAIN | Ho2               |       | EA | 6        |         |
|       | 630107   | STRIP BRASS 15.5 X 0.38mm   | RIGHTON              | CZ108 1/2H        |       | MM | 222      |         |
|       | 630243   | BEAD GLASS 2.4 X 0.81 X 1.8 | MANSOL (PREFORMS) LT | M5363B/3          |       | EA | 28       |         |
|       | 630276   | BUSH                        | HEYCO                | 2817              |       | EA | 1        |         |
|       | 900004   | SILICONE RUBBER COMPOUND    | RS                   | 555-588           |       | AR | 1        |         |
|       | 920202   | HEATSINK                    | REDPOINT             | 5F                |       | EA | 2        |         |
|       | 420098   | LABEL SERIAL/ASSY No.       | RS                   | 554-793           |       | EA | 1        |         |
|       | 540006   | WIRE 1/.4 BLACK PTFE 250V   | BSG210               | TYPE A            |       | AR | 1        |         |

End



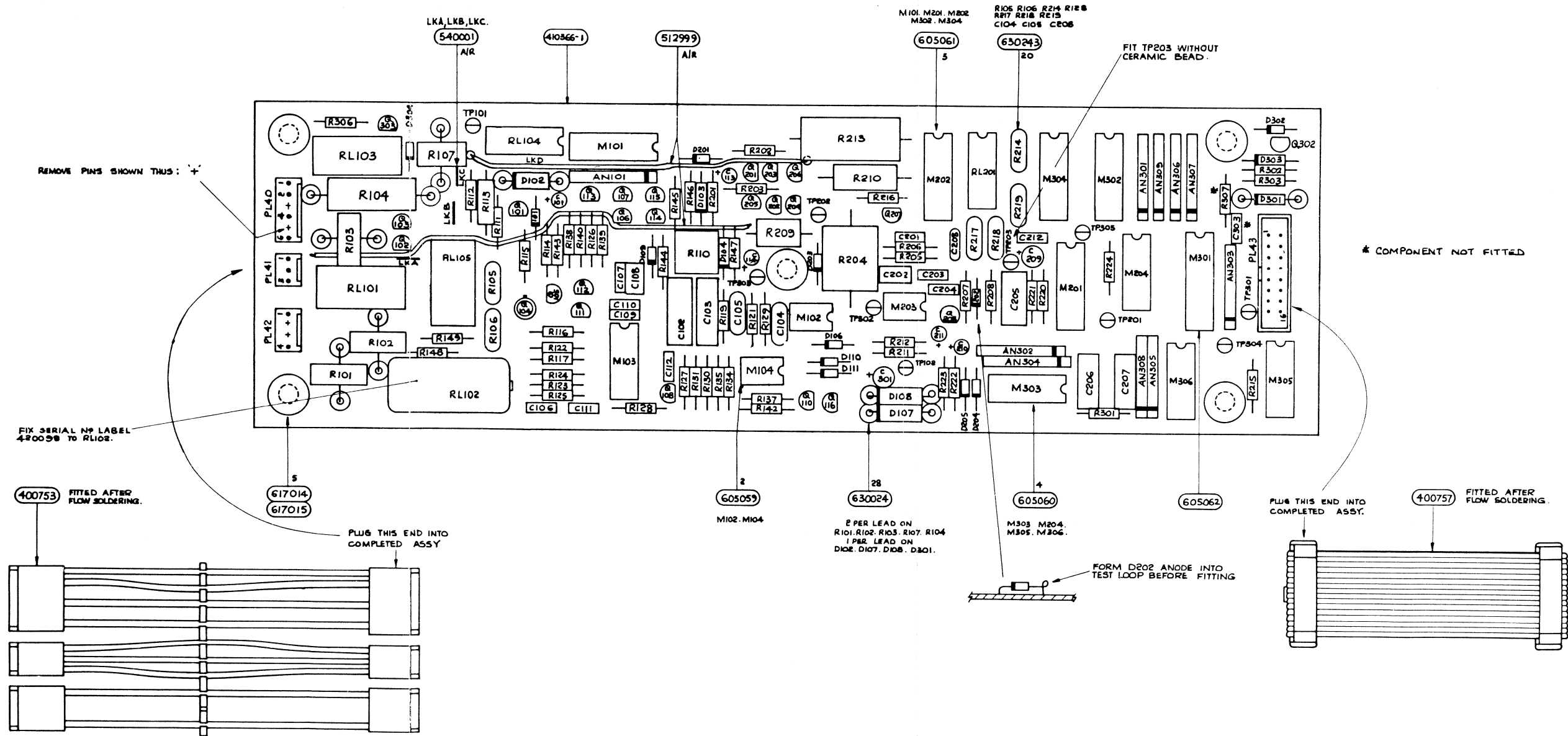


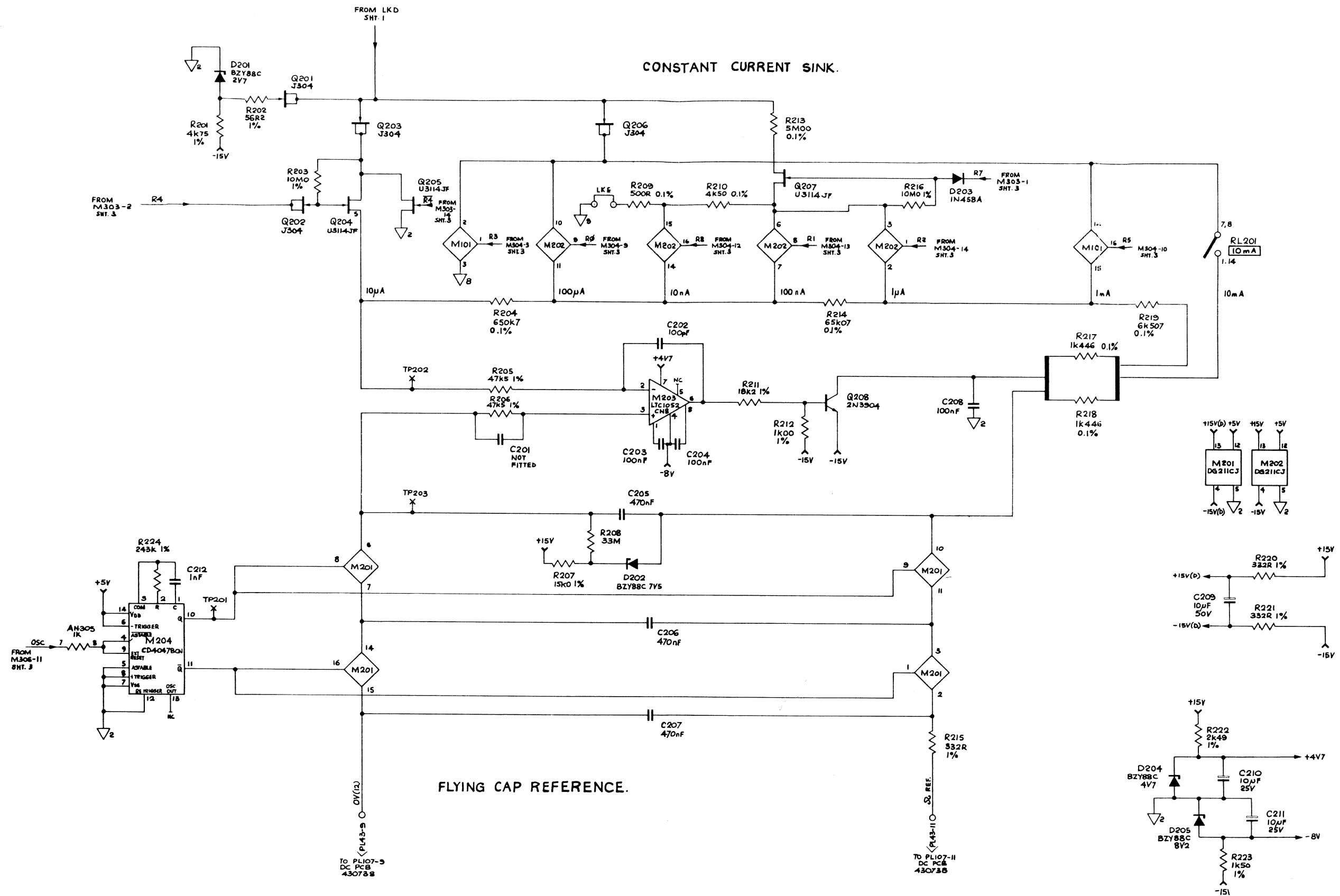
# OHMS ASSEMBLY

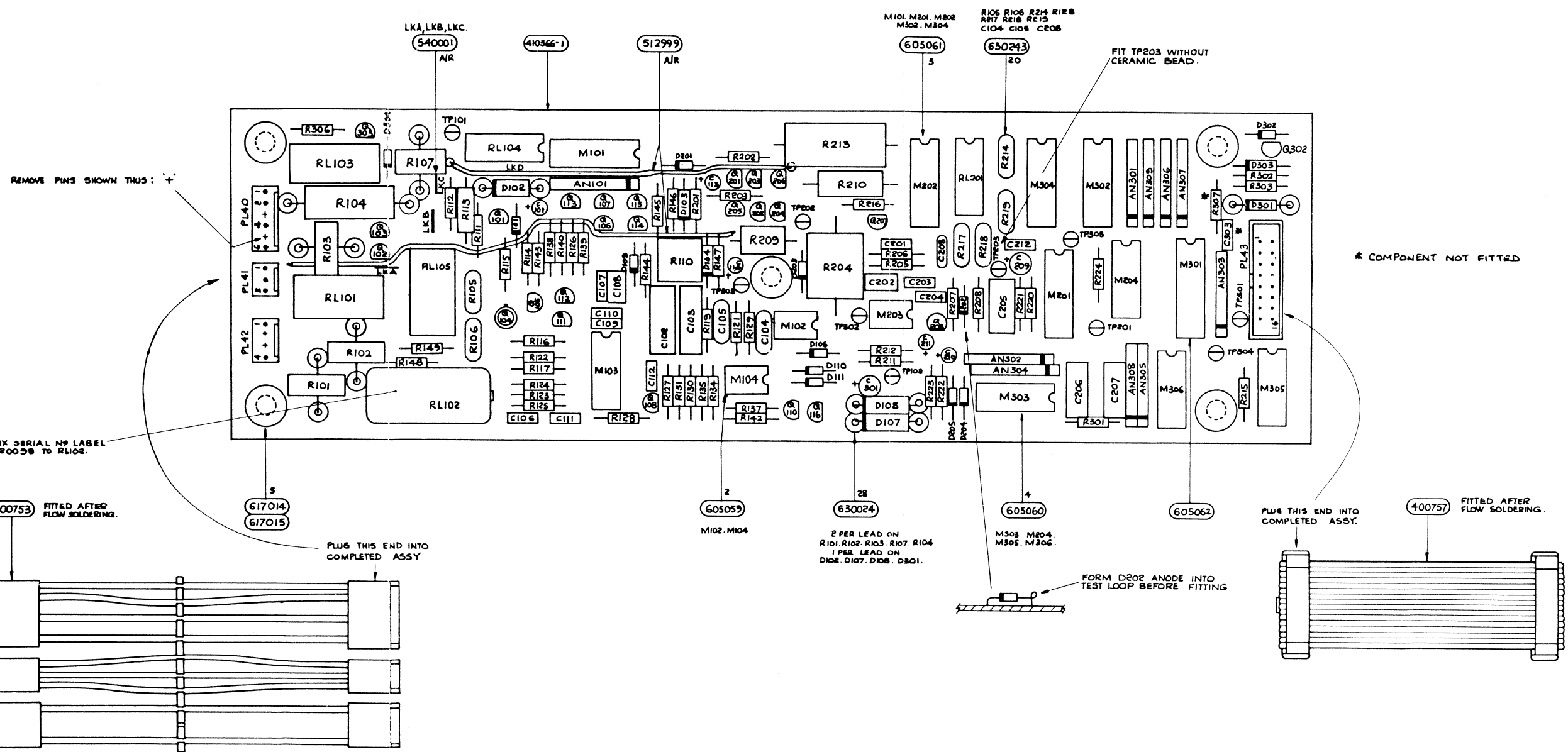
Low Follower

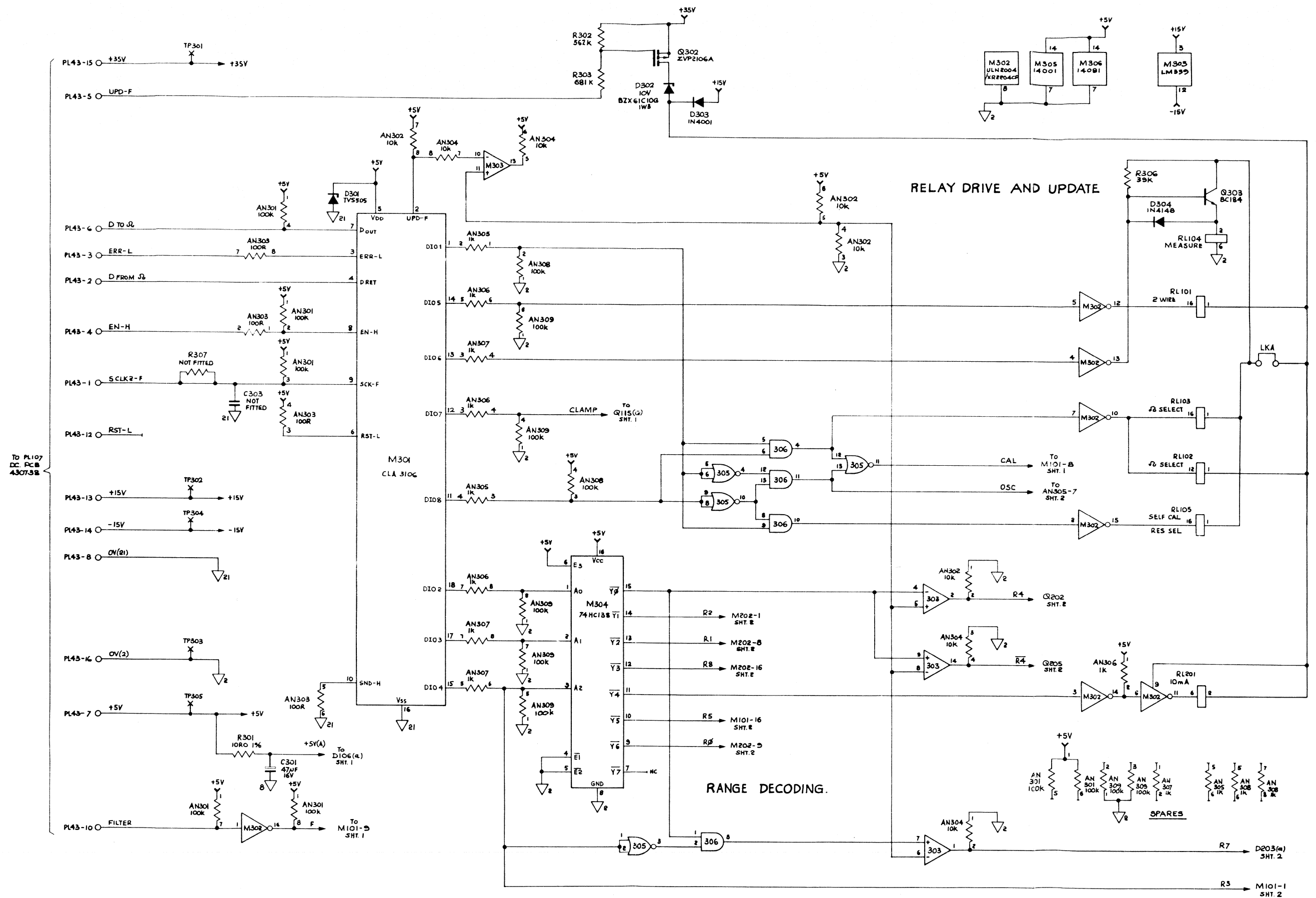
Drawing No. 430742

Sheet 1 of 3









OHMS ASSEMBLY

Control Logic

Drawing No. 430742

Sheet 3 of 3

1281  
datron  
WAVETEK

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| DESIG | PART NO  | RV | DESCRIPTION                | PRINC MANUF   | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|----|----------------------------|---------------|-------------------|-------|----|----------|---------|
| R101  | 090001   | 0  | THERMISTOR PTC 80R         | MULLARD       | YA8650            |       | EA | 4        |         |
| R102  | 090001   | 0  | THERMISTOR PTC 80R         | MULLARD       | YA8650            |       | EA | -        |         |
| R103  | 090001   | 0  | THERMISTOR PTC 80R         | MULLARD       | YA8650            |       | EA | -        |         |
| R104  | 080812   | 0  | RES CF 27K 5% 2W           | PIHER         | PR02-5            |       | EA | 1        |         |
| R105  | 080087-1 | 0  | RES FL 100K .1% .2PPM      | VISHAY MANN   | SEE DRG           |       | EA | 1        |         |
| R106  | 080086-1 | 0  | RES FL 1K00 .1% .1PPM      | VISHAY MANN   | SEE DRG           |       | EA | 1        |         |
| R107  | 090001   | 0  | THERMISTOR PTC 80R         | MULLARD       | YA8650            |       | EA | -        |         |
| R110  | 063104   | 0  | RES CT 100K HORZ S/T       | BECKMAN       | 72P               |       | EA | 1        |         |
| R111  | 041004   | 0  | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R112  | 011001   | 0  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 3        |         |
| R113  | 000686   | 0  | RES HM 68M 5% .25W         | ALLEN BRADLEY | CB                | A     | EA | 1        |         |
| R114  | 014752   | 0  | RES MF 47K5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 6        |         |
| R115  | 014752   | 0  | RES MF 47K5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R116  | 014752   | 0  | RES MF 47K5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R117  | 014752   | 0  | RES MF 47K5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R119  | 048254   | 0  | RES MF 8M25 1% .12W 100PPM | STEATITE      | MK2               | A     | EA | 2        |         |
| R121  | 048254   | 0  | RES MF 8M25 1% .12W 100PPM | STEATITE      | MK2               | A     | EA | -        |         |
| R122  | 014991   | 0  | RES MF 4K99 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 4        |         |
| R123  | 014991   | 0  | RES MF 4K99 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R124  | 014991   | 0  | RES MF 4K99 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R125  | 014991   | 0  | RES MF 4K99 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R126  | 011002   | 0  | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R127  | 011000   | 0  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R128  | 014751   | 0  | RES MF 4K75 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R129  | 011002   | 0  | RES MF 10K0 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R130  | 012741   | 0  | RES MF 2K74 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R131  | 017501   | 0  | RES MF 7K50 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R134  | 012003   | 0  | RES MF 200K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R135  | 011001   | 0  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R137  | 011000   | 0  | RES MF 100R 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R138  | 042054   | 0  | RES MF 2M05 1% .12W 100PPM | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R139  | 041005   | 0  | RES MF 10M0 1% .12W 100PPM | STEATITE      | MK2               | A     | EA | 4        |         |
| R140  | 041694   | 0  | RES MF 1M69 1% .12W 100PPM | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R142  | 012152   | 0  | RES MF 21K5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R143  | 045903   | 0  | RES MF 590K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R144  | 041005   | 0  | RES MF 10M0 1% .12W 100PPM | STEATITE      | MK2               | A     | EA | -        |         |
| R145  | 011003   | 0  | RES MF 100K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R146  | 012211   | 0  | RES MF 2K21 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 2        |         |
| R147  | 012211   | 0  | RES MF 2K21 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R148  | 041004   | 0  | RES MF 1M00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R149  | 012742   | 0  | RES MF 27K4 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R201  | 014751   | 0  | RES MF 4K75 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R202  | 015628   | 0  | RES MF 56R2 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R203  | 041005   | 0  | RES MF 10M0 1% .12W 100PPM | STEATITE      | MK2               | A     | EA | -        |         |
| R204  | 080091-1 | 0  | RES FL 650K7 .1% .5PPM     | VISHAY MANN   | SEE DRG           |       | EA | 1        |         |



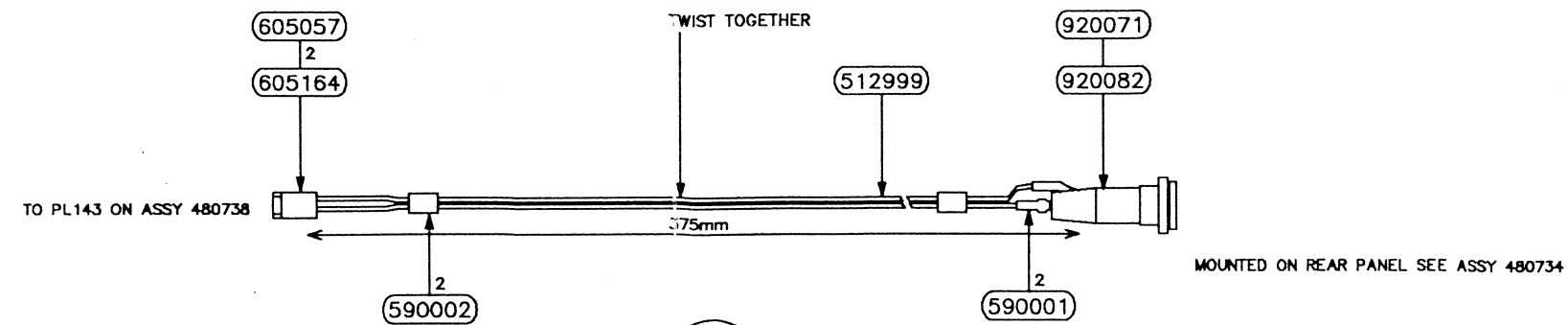
| DESIG | PART NO  | RV | DESCRIPTION                | PRINC MANUF   | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|----|----------------------------|---------------|-------------------|-------|----|----------|---------|
| R205  | 014752   | 0  | RES MF 47K5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R206  | 014752   | 0  | RES MF 47K5 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R207  | 011502   | 0  | RES MF 15K0 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R208  | 000336   | 0  | RES HM 33M 5% .25W         | ALLEN BRADLEY | CB                | A     | EA | 1        |         |
| R209  | 090146-1 | 0  | RES FL SET 5M/4K5/500R     | VISHAY MANN   | SEE DRG           |       | S3 | 1        |         |
| R210  | 090146-1 | 0  | RES FL SET 5M/4K5/500R     | VISHAY MANN   | SEE DRG           |       | S3 | -        |         |
| R211  | 011822   | 0  | RES MF 18K2 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R212  | 011001   | 0  | RES MF 1K00 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R213  | 090146-1 | 0  | RES FL SET 5M/4K5/500R     | VISHAY MANN   | SEE DRG           |       | S3 | -        |         |
| R214  | 080090-1 | 0  | RES FL 65K07 .1% .2PPM     | VISHAY MANN   | SEE DRG           |       | EA | 1        |         |
| R215  | 013320   | 0  | RES MF 332R 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 3        |         |
| R216  | 041005   | 0  | RES MF 10M0 1% .12W 100PPM | STENTITE      | MK2               | A     | EA | -        |         |
| R217  | 080088-1 | 0  | RES FL 1K446 .1% .2PPM     | VISHAY MANN   | SEE DRG           |       | EA | 2        |         |
| R218  | 080088-1 | 0  | RES FL 1K446 .1% .2PPM     | VISHAY MANN   | SEE DRG           |       | EA | -        |         |
| R219  | 080089-1 | 0  | RES FL 6K507 .1% .2PPM     | VISHAY MANN   | SEE DRG           |       | EA | 1        |         |
| R220  | 013320   | 0  | RES MF 332R 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R221  | 013320   | 0  | RES MF 332R 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | -        |         |
| R222  | 012491   | 0  | RES MF 2K49 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R223  | 011501   | 0  | RES MF 1K50 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R224  | 012433   | 0  | RES MF 243K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R301  | 011008   | 0  | RES MF 10R0 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R302  | 045623   | 0  | RES MF 562K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R303  | 046813   | 0  | RES MF 681K 1% .12W 50PPM  | HOLSWORTHY    | H8C               | A     | EA | 1        |         |
| R306  | 050067   | 0  | RES MF 39K 5% .5W 100PPM   | PHILIPS       | SFR16T-39K-5      |       | EA | 1        |         |
| R307  | 00000N   |    | NOT FITTED                 |               |                   |       | EA | 2        |         |
| AN101 | 090175   | 0  | RES PACK 1M X 4 2%         | BECKMAN       | LO8-3-1M          |       | EA | 1        |         |
| AN301 | 090017   | 0  | RES NTWK 100K x 7 2%       | BECKMAN       | LO8-1-R100K       |       | EA | 2        |         |
| AN302 | 090131   | 0  | RES PACK 10K X 4 2%        | BECKMAN       | LO8-3-R10K        |       | EA | 2        |         |
| AN303 | 090105   | 0  | RES PACK 100R X 4 2%       | BECKMAN       | LO8-3-R100        |       | EA | 1        |         |
| AN304 | 090131   | 0  | RES PACK 10K X 4 2%        | BECKMAN       | LO8-3-R10K        |       | EA | -        |         |
| AN305 | 090168   | 0  | RES PACK 1K X 4 2%         | AB            | AB-770-83-1K      |       | EA | 3        |         |
| AN306 | 090168   | 0  | RES PACK 1K X 4 2%         | AB            | AB-770-83-1K      |       | EA | -        |         |
| AN307 | 090168   | 0  | RES PACK 1K X 4 2%         | AB            | AB-770-83-1K      |       | EA | -        |         |
| AN308 | 090167   | 0  | RES PACK 100K X 4 2%       | AB            | AB-770-83-100K    |       | EA | 1        |         |
| AN309 | 090017   | 0  | RES NTWK 100K x 7 2%       | BECKMAN       | LO8-1-R100K       |       | EA | -        |         |
| C101  | 150020   | 0  | CAP DT 10UF 20% 25V        | AVX           | TAP10M25F         | A     | EA | 5        |         |
| C102  | 120030-1 | 0  | CAP MF 820NF 5% 63V        | ASHCROFT      | SEE DRG           |       | EA | 2        |         |
| C103  | 120030-1 | 0  | CAP MF 820NF 5% 63V        | ASHCROFT      | SEE DRG           |       | EA | -        |         |
| C104  | 120013   | 0  | CAP PC 150nF 10% 63V       | ASHCROFT      | M2B15101B         |       | EA | 2        |         |
| C105  | 120013   | 0  | CAP PC 150nF 10% 63V       | ASHCROFT      | M2B15101B         |       | EA | -        |         |
| C106  | 120016   | 0  | CAP PC 22nF 20% 100V       | WIMA          | FKC2              |       | EA | 2        |         |
| C107  | 110050   | 0  | CAP PE 22nF 10% 63V        | WIMA          | MKS4              |       | EA | 1        |         |
| C108  | 140079   | 0  | CAP PP 33nF 5% 63V         | WIMA          | FKP2              |       | EA | 1        |         |
| C109  | 110042   | 0  | CAP PE 100nF 20% 63V       | WIMA          | MKS2              |       | EA | 4        |         |
| C110  | 110042   | 0  | CAP PE 100nF 20% 63V       | WIMA          | MKS2              |       | EA | -        |         |

| DESIG | PART NO  | RV | DESCRIPTION               | PRINC MANUF    | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|----|---------------------------|----------------|-------------------|-------|----|----------|---------|
| C111  | 120016   | 0  | CAP PC 22nF 20% 100V      | WIMA           | FKC2              |       | EA | -        |         |
| C112  | 110058   | 0  | CAP PE 68nF 10% 63V       | WIMA           | MKS2              |       | EA | 1        |         |
| C113  | 150020   | 0  | CAP DT 10UF 20% 25V       | AVX            | TAP10M25F         | A     | EA | -        |         |
| C114  | 150020   | 0  | CAP DT 10UF 20% 25V       | AVX            | TAP10M25F         | A     | EA | -        |         |
| C202  | 140077   | 0  | CAP PP 100PF 5% 100V      | WIMA           | FKP2              |       | EA | 1        |         |
| C203  | 110042   | 0  | CAP PE 100nF 20% 63V      | WIMA           | MKS2              |       | EA | -        |         |
| C204  | 110042   | 0  | CAP PE 100nF 20% 63V      | WIMA           | MKS2              |       | EA | -        |         |
| C205  | 120021   | 0  | CAP PC 470nF 10% 63V      | ASHCROFT       | A2B4711B          |       | EA | 3        |         |
| C206  | 120021   | 0  | CAP PC 470nF 10% 63V      | ASHCROFT       | A2B4711B          |       | EA | -        |         |
| C207  | 120021   | 0  | CAP PC 470nF 10% 63V      | ASHCROFT       | A2B4711B          |       | EA | -        |         |
| C208  | 104025   | 0  | CAP CD 100nF +80%-20% 50V | SIEMENS        | B37449            |       | EA | 1        |         |
| C209  | 180060   | 0  | CAP AE 10UF 50V           | PHILIPS        | 035-90008         |       | EA | 1        |         |
| C210  | 150020   | 0  | CAP DT 10UF 20% 25V       | AVX            | TAP10M25F         | A     | EA | -        |         |
| C211  | 150020   | 0  | CAP DT 10UF 20% 25V       | AVX            | TAP10M25F         | A     | EA | -        |         |
| C212  | 120027   | 0  | CAP PC 1nF 20% 100V       | WIMA           | FKC2              |       | EA | 1        |         |
| C301  | 150024   | 0  | CAP DT 47UF 20% 16V       | AVX            | TAP47M16F         | A     | EA | 1        |         |
| C303  | 00000N   |    | NOT FITTED                |                |                   |       | EA | -        |         |
| D101  | 200001   | 0  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148            |       | EA | 2        |         |
| D102  | 213028   | 0  | DIODE ZN 6V2 5W           | MOTOROLA       | 1N5341            |       | EA | 1        |         |
| D103  | 210062   | 0  | DIODE ZN 6V2 400mW        | PHILIPS        | BZX79C6V2         | A     | EA | 2        |         |
| D104  | 210062   | 0  | DIODE ZN 6V2 400mW        | PHILIPS        | BZX79C6V2         | A     | EA | -        |         |
| D106  | 200029   | 0  | DIODE SB 1A 30V           | INT RECTIFIERS | 11DQ04            |       | EA | 1        |         |
| D107  | 213031   | 0  | DIODE ZN 13V 5W           | MOTOROLA       | 1N5350            |       | EA | 2        |         |
| D108  | 213031   | 0  | DIODE ZN 13V 5W           | MOTOROLA       | 1N5350            |       | EA | -        |         |
| D109  | 200008   | 0  | DIODE GP 200mA 125V       | ITT            | ITT923            | A     | EA | 2        |         |
| D110  | 210056   | 0  | DIODE ZN 5V6 400mW        | PHILIPS        | BZX79C5V6         | A     | EA | 1        |         |
| D111  | 210110   | 0  | DIODE ZN 11V 400mW        | PHILIPS        | BZX79C11          | A     | EA | 1        |         |
| D201  | 210027   | 0  | DIODE ZN 2V7 400mW        | PHILIPS        | BZX79C2V7         | A     | EA | 1        |         |
| D202  | 210075   | 0  | DIODE ZN 7V5 400mW        | PHILIPS        | BZX79C7V5         | A     | EA | 1        |         |
| D203  | 200008   | 0  | DIODE GP 200mA 125V       | ITT            | ITT923            | A     | EA | -        |         |
| D204  | 210047   | 0  | DIODE ZN 4V7 400mW        | PHILIPS        | BZX79C4V7         | A     | EA | 1        |         |
| D205  | 210082   | 0  | DIODE ZN 8V2 400mW        | PHILIPS        | BZX79C8V2         | A     | EA | 1        |         |
| D301  | 213006   | 0  | DIODE ZN 5V 5W            | UNITRODE       | TVS505            |       | EA | 1        |         |
| D302  | 211100   | 0  | DIODE ZN 10V 1.3W         | PHILIPS        | BZV85C10          |       | EA | 1        |         |
| D303  | 209002   | 0  | DIODE GP 1A 50V           | FAIRCHILD      | 1N4001            |       | EA | 1        |         |
| D304  | 200001   | 0  | DIODE GP 75mA 75V         | FAIRCHILD      | 1N4148            |       | EA | -        |         |
| Q101  | 230027-1 | 0  | TRAN JFET N-CHAN 60V      | DATRON         | SEE DRG           |       | EA | 8        |         |
| Q102  | 230002   | 0  | TRAN JFET N-CHAN          | SILICONIX      | J304              |       | EA | 6        |         |
| Q103  | 230002   | 0  | TRAN JFET N-CHAN          | SILICONIX      | J304              |       | EA | -        |         |
| Q104  | 230023   | 0  | TRAN JFET N CHAN DUAL     | SILICONIX      | U401              |       | EA | 1        |         |
| Q105  | 230055   | 0  | TRAN JFET I LIM 430uA     | SILICONIX      | J502              |       | EA | 1        |         |
| Q106  | 230027-1 | 0  | TRAN JFET N-CHAN 60V      | DATRON         | SEE DRG           |       | EA | -        |         |
| Q107  | 240009   | 0  | TRAN NPN TO18             | NATIONAL       | MPSL01/2N5550     |       | EA | -        |         |
| Q108  | 240006   | 0  | TRAN NPN TO92             | MOTOROLA       | 2N3904            |       | EA | 2        |         |
| Q110  | 240009   | 0  | TRAN NPN TO18             | NATIONAL       | MPSL01/2N5550     |       | EA | 3        |         |

| DESIG | PART NO  | RV | DESCRIPTION                  | PRINC MANUF       | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|----|------------------------------|-------------------|-------------------|-------|----|----------|---------|
| Q111  | 230027-1 | 0  | TRAN JFET N-CHAN 60V         | DATRON            | SEE DRG           | EA    | -  |          |         |
| Q112  | 230027-1 | 0  | TRAN JFET N-CHAN 60V         | DATRON            | SEE DRG           | EA    | -  |          |         |
| Q113  | 240006   | 0  | TRAN NPN TO92                | MOTOROLA          | 2N3904            | EA    | -  |          |         |
| Q114  | 230027-1 | 0  | TRAN JFET N-CHAN 60V         | DATRON            | SEE DRG           | EA    | -  |          |         |
| Q115  | 230074   | 0  | TRAN JFET N-CHAN             | SILICONIX         | J271              | EA    | 1  |          |         |
| Q116  | 230042   | 0  | TRAN JFET 1 LIM 3mA          | SILICONIX         | J509              | EA    | 1  |          |         |
| Q201  | 230002   | 0  | TRAN JFET N-CHAN             | SILICONIX         | J304              | EA    | -  |          |         |
| Q202  | 230002   | 0  | TRAN JFET N-CHAN             | SILICONIX         | J304              | EA    | -  |          |         |
| Q203  | 230002   | 0  | TRAN JFET N-CHAN             | SILICONIX         | J304              | EA    | -  |          |         |
| Q204  | 230027-1 | 0  | TRAN JFET N-CHAN 60V         | DATRON            | SEE DRG           | EA    | -  |          |         |
| Q205  | 230027-1 | 0  | TRAN JFET N-CHAN 60V         | DATRON            | SEE DRG           | EA    | -  |          |         |
| Q206  | 230002   | 0  | TRAN JFET N-CHAN             | SILICONIX         | J304              | EA    | -  |          |         |
| Q207  | 230027-1 | 0  | TRAN JFET N-CHAN 60V         | DATRON            | SEE DRG           | EA    | -  |          |         |
| Q208  | 240006   | 0  | TRAN NPN TO92                | MOTOROLA          | 2N3904            | EA    | -  |          |         |
| Q302  | 230086   | 0  | TRAN MOSFET P-CHAN 60V       | FERRANTI          | 2N2106A           | EA    | 1  |          |         |
| Q303  | 240029   | 0  | TRAN NPN                     | MOTOROLA          | BC546             | EA    | 1  |          |         |
| M101  | 280167   | 0  | IC DIG SWITCH QUAD CMOS      | SILICONIX         | DG211CJ           | EA    | 3  |          |         |
| M102  | 260073   | 0  | IC LIN OP AMP                | NATIONAL          | LF411CN           | EA    | 1  |          |         |
| M103  | 260083   | 0  | IC LIN OP AMP CHOPPER        | LINEAR TECHNOLOGY | LTC1052CN         | EA    | 1  |          |         |
| M104  | 260087   | 0  | IC LIN OP AMP BIFET          | MOTOROLA          | MC34081P          | EA    | 1  |          |         |
| M201  | 280167   | 0  | IC DIG SWITCH QUAD CMOS      | SILICONIX         | DG211CJ           | EA    | -  |          |         |
| M202  | 280167   | 0  | IC DIG SWITCH QUAD CMOS      | SILICONIX         | DG211CJ           | EA    | -  |          |         |
| M203  | 260082   | 0  | IC LIN OP AMP CHOPPER        | LINEAR TECHNOLOGY | LTC1052CN8        | EA    | 1  |          |         |
| M204  | 280072   | 0  | IC DIG MULTIVIB/ASTABLE      | NATIONAL          | CD4047BCN         | EA    | 1  |          |         |
| M301  | 280132   | 0  | IC DIG ULA SERIAL TX/RX      | PLESSEY           | CLA3106           | EA    | 1  |          |         |
| M302  | 290077   | 0  | IC DIG 7 X DARLINGTON DRIVER | SPHAGUE/EXAR      | ULN2004A/XR2204CP | EA    | 1  |          |         |
| M303  | 260091   | 0  | IC LIN COMP QUAD             | NATIONAL          | LM339N            | EA    | 1  |          |         |
| M304  | 280148   | 0  | IC DIG DECODER 3 TO 8 LINE   | TEXAS             | 74HC139           | EA    | 1  |          |         |
| M305  | 280023   | 0  | IC DIG NOR2 QUAD             | MOTOROLA          | MC14001UBCP       | EA    | 1  |          |         |
| M306  | 280085   | 0  | IC DIG QUAD 2 1/P AND        | MOTOROLA          | MC14091BCP        | EA    | 1  |          |         |
| RL101 | 330029   | 0  | RELAY 2P2W                   | SDS               | DS2E-DC24V        | EA    | 3  |          |         |
| RL102 | 330031   | 0  | RELAY 2PNO 2PNC              | SDS               | S2-24V            | EA    | 1  |          |         |
| RL103 | 330029   | 0  | RELAY 2P2W                   | SUS               | DS2E-DC24V        | EA    | -  |          |         |
| RL104 | 330046   | 0  | RELAY SPNO 24V REED          | HAMLIN            | HE721C 24/10      | EA    | 1  |          |         |
| RL105 | 330029   | 0  | RELAY 2P2W                   | SDS               | DS2E-DC24V        | EA    | -  |          |         |
| RL201 | 330047   | 0  | RELAY SPNO 24V REED          | HAMLIN            | HE721A 24/10      | EA    | 1  |          |         |
| PL40  | 604075   | 0  | PLUG PCB 6-WAY .1"           | MOLEX             | 22-25-2061        | EA    | 1  |          |         |
| PL41  | 604074   | 0  | PLUG PCB 3-WAY .1"           | MOLEX             | 22-25-3031        | EA    | 1  |          |         |
| PL42  | 604033   | 0  | PLUG PCB 4-WAY .1"           | MOLEX             | 22-25-2041        | EA    | 1  |          |         |
| PL43  | 604076   | 0  | PLUG PCB 16-WAY .1"X.1" GRID | 3M                | 3559-6002 UN      | EA    | 1  |          |         |
| TP101 | 620007   | 0  | TEST POINT TERMINAL          | MICROVAR          | TYPE C30          | EA    | 10 |          |         |
| TP102 | 620007   | 0  | TEST POINT TERMINAL          | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP201 | 620007   | 0  | TEST POINT TERMINAL          | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP202 | 620007   | 0  | TEST POINT TERMINAL          | MICROVAR          | TYPE C30          | EA    | -  |          |         |
| TP203 | 620007   | 0  | TEST POINT TERMINAL          | MICROVAR          | TYPE C30          | EA    | -  |          |         |

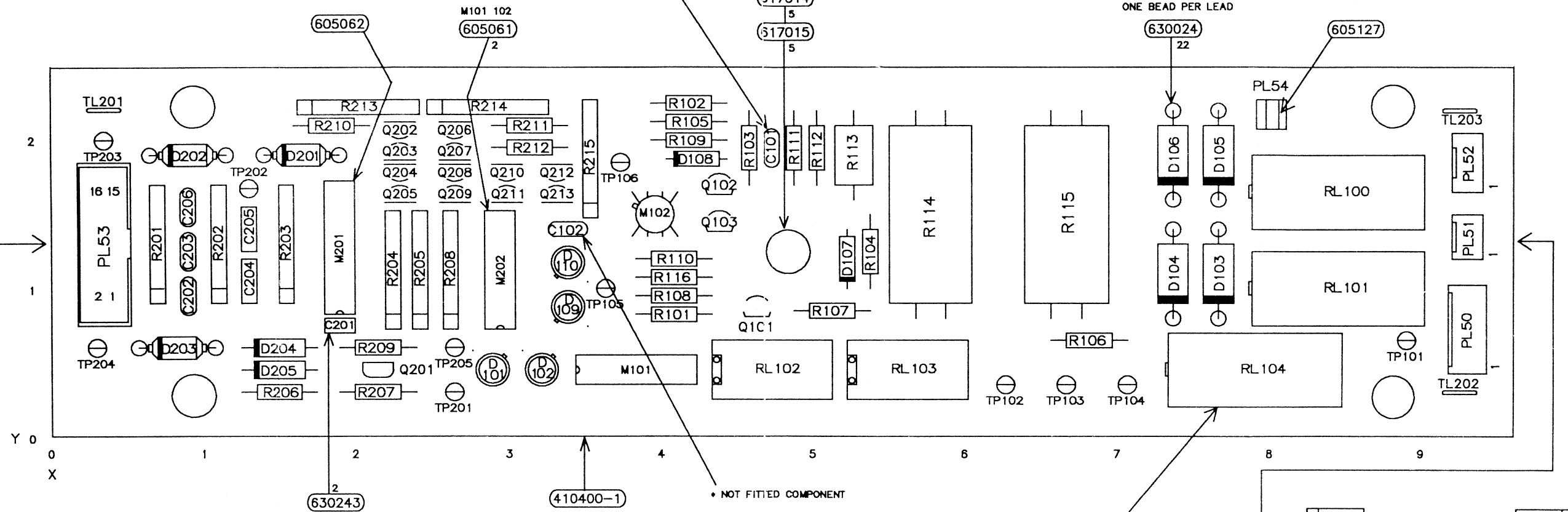
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|----------|---------|-----------------------------|----------------------|-------------|-------------------|-------|----|----------|---------|
| TP301    | 620007  | 0                           | TEST POINT TERMINAL  | MICROVAR    | TYPE C30          | EA    | -  |          |         |
| TP302    | 620007  | 0                           | TEST POINT TERMINAL  | MICROVAR    | TYPE C30          | EA    | -  |          |         |
| TP303    | 620007  | 0                           | TEST POINT TERMINAL  | MICROVAR    | TYPE C30          | EA    | -  |          |         |
| TP304    | 620007  | 0                           | TEST POINT TERMINAL  | MICROVAR    | TYPE C30          | EA    | -  |          |         |
| TP305    | 620007  | 0                           | TEST POINT TERMINAL  | MICROVAR    | TYPE C30          | EA    | -  |          |         |
| 410366-1 | 0       | PCB OHMS 1281               |                      |             | SEE DRG           | EA    | 1  |          |         |
| 512999   | 0       | WIRE 7/.2 PTFE 1KV WHI      | BSG210               | TYPE C      |                   | AR    | -  |          |         |
| 605059   | 0       | SOCKET PCB 8-WAY DIL        | JERMYN               | J23-18008   | A                 | EA    | 2  |          |         |
| 605060   | 0       | SOCKET PCB 14-WAY DIL       | JERMYN               | J23-18014   |                   | EA    | 4  |          |         |
| 605061   | 0       | SOCKET PCB 16-WAY DIL       | JERMYN               | J23-18016   | A                 | EA    | 5  |          |         |
| 605062   | 0       | SOCKET PCB 18-WAY DIL       | JERMYN               | J23-18018   |                   | EA    | 1  |          |         |
| 617014   | 0       | NYLATCH PLUNGER 1/4"        | HARTWELL (C.J.FOX)   | HH4P-43     |                   | EA    | 5  |          |         |
| 617015   | 0       | NYLATCH GROMMET 1/4"        | HARTWELL (C.J.FOX)   | HH4G-43     |                   | EA    | 5  |          |         |
| 630243   | 0       | BEAD GLASS 2.4 X 0.81 X 1.8 | MANSOL (PREFORMS) LT | M5363B/3    |                   | EA    | 20 |          |         |
| 630024   | 0       | BEAD CERAMIC 16 SWG         | PARK ROYAL PORCELAIN | No2         |                   | EA    | 28 |          |         |
| 400753-1 | 0       | ASSY CABLE SIG IP 1281      | DATRON               | SEE DRG     |                   | EA    | 1  |          |         |
| 400757-1 | 0       | ASSY CABLE RIBBON 16V       | DATRON               | SEE DRG     |                   | EA    | 1  |          |         |
| 540001   | 0       | WIRE 1/.56 TINNED COPPER    |                      | 24SWG       |                   | AR    | -  |          |         |
| 540006   | 0       | WIRE 1/.4 BLACK PTFE 250V   | BSG210               | TYPE A      |                   | AR    | -  |          |         |
| 590004   | 0       | SLEEVE PTFE 1mm BLK         | HELLERMAN            | FE10        |                   | AR    | -  |          |         |
| 613017   | 0       | WASHER M3 NYL.              |                      |             |                   | EA    | 6  |          |         |



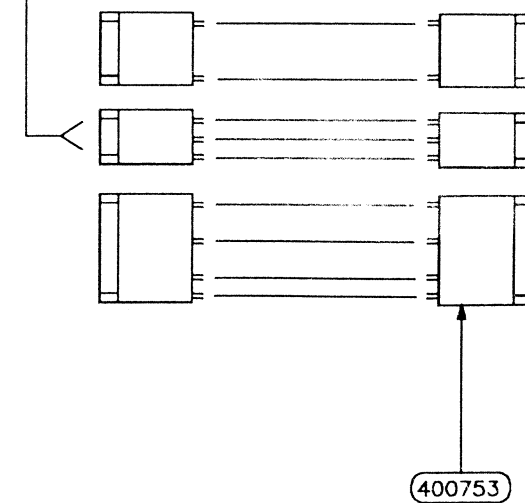
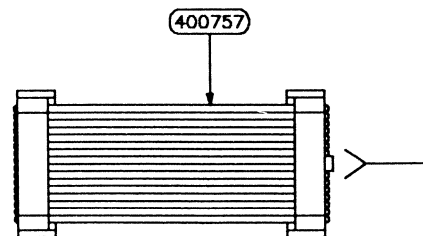


C101 IS 470PF(102471) IF R111 MANUFR IS MANN  
C101 IS 330PF(102331) IF R111 MANUFR IS KELVIN

D103 104 105 106  
TWO BEADS PER LEAD  
D201 202 203  
ONE BEAD PER LEAD

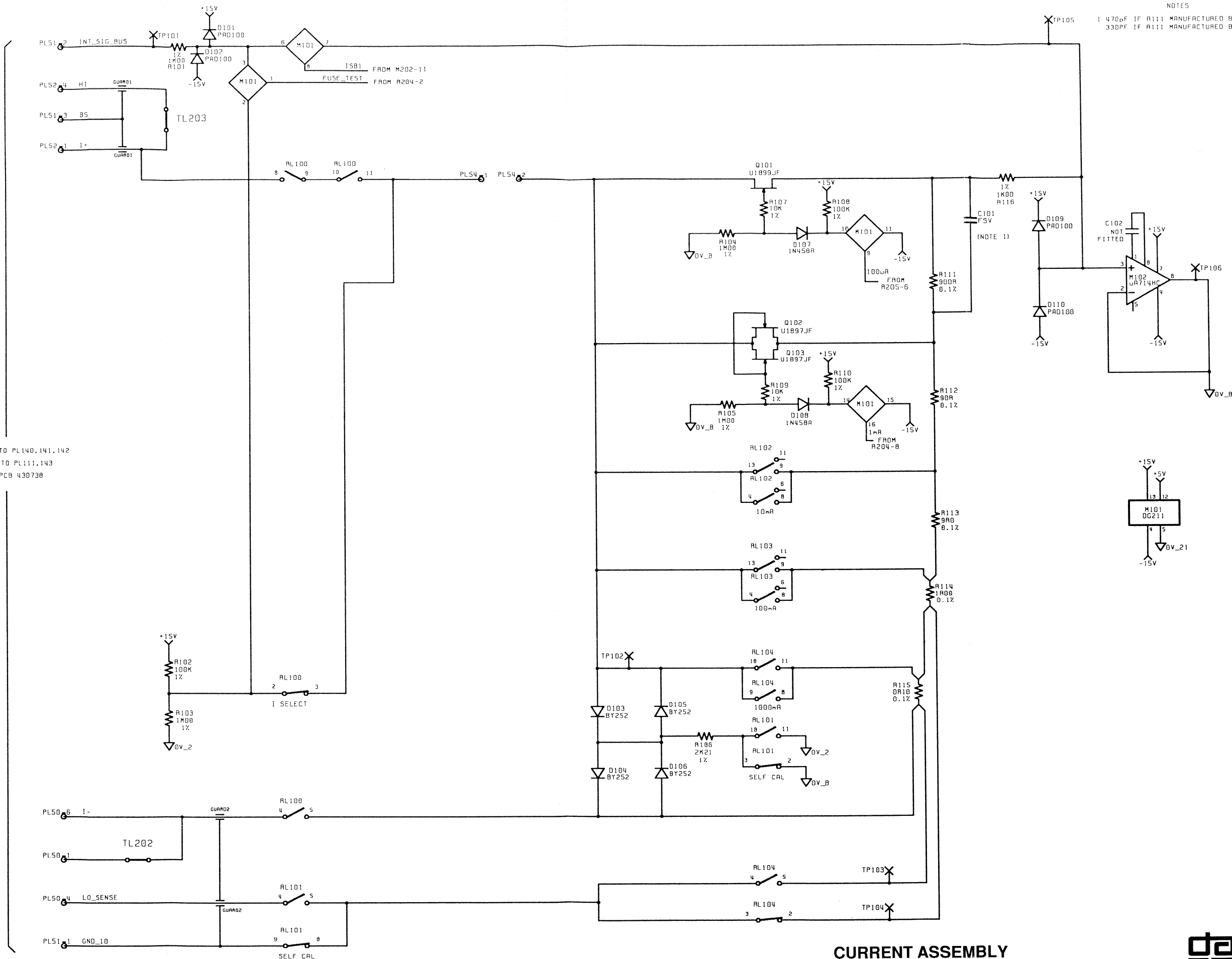


PLACE SERIAL NO. LABEL  
ON RL104



NOTES  
 1 470pF IF R111 MANUFACTURED BY MANN  
 330PF IF R111 MANUFACTURED BY KELVIN

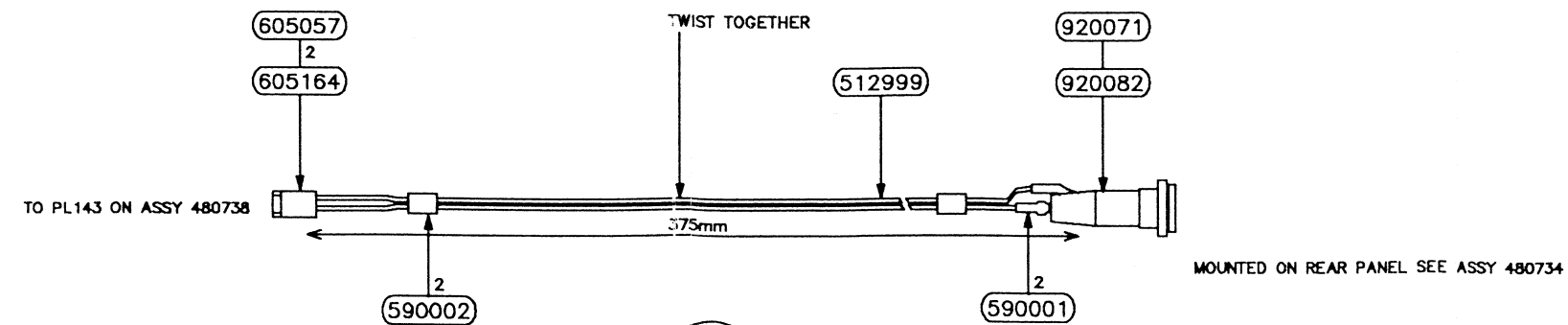
PL50,51,52 TO PL140,141,142  
 E101,102 TO PL111,143  
 DC PCB 430738



**CURRENT ASSEMBLY**  
 Current to Voltage Converter  
 Drawing No. 430743

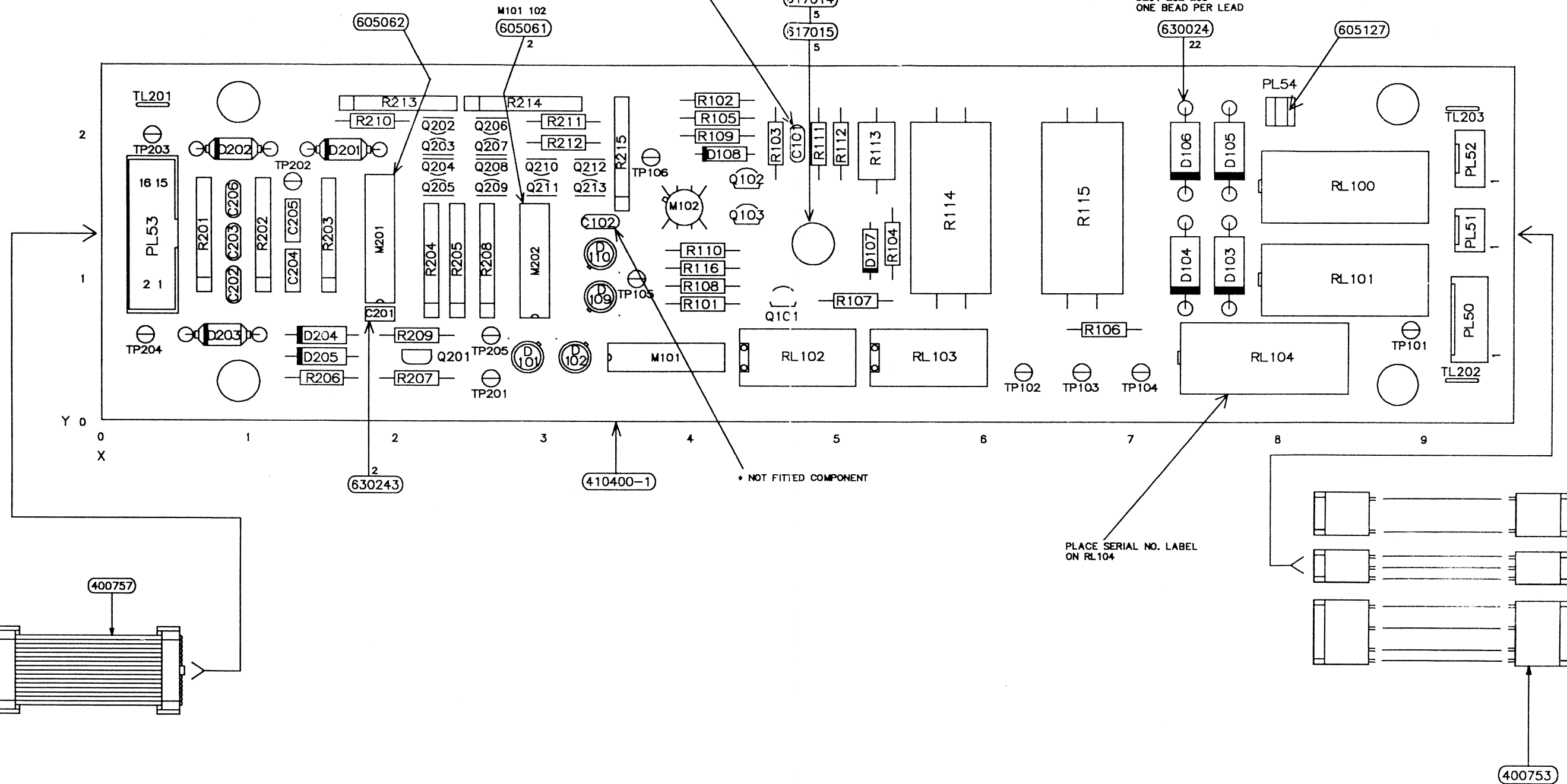
Sheet 1 of 2

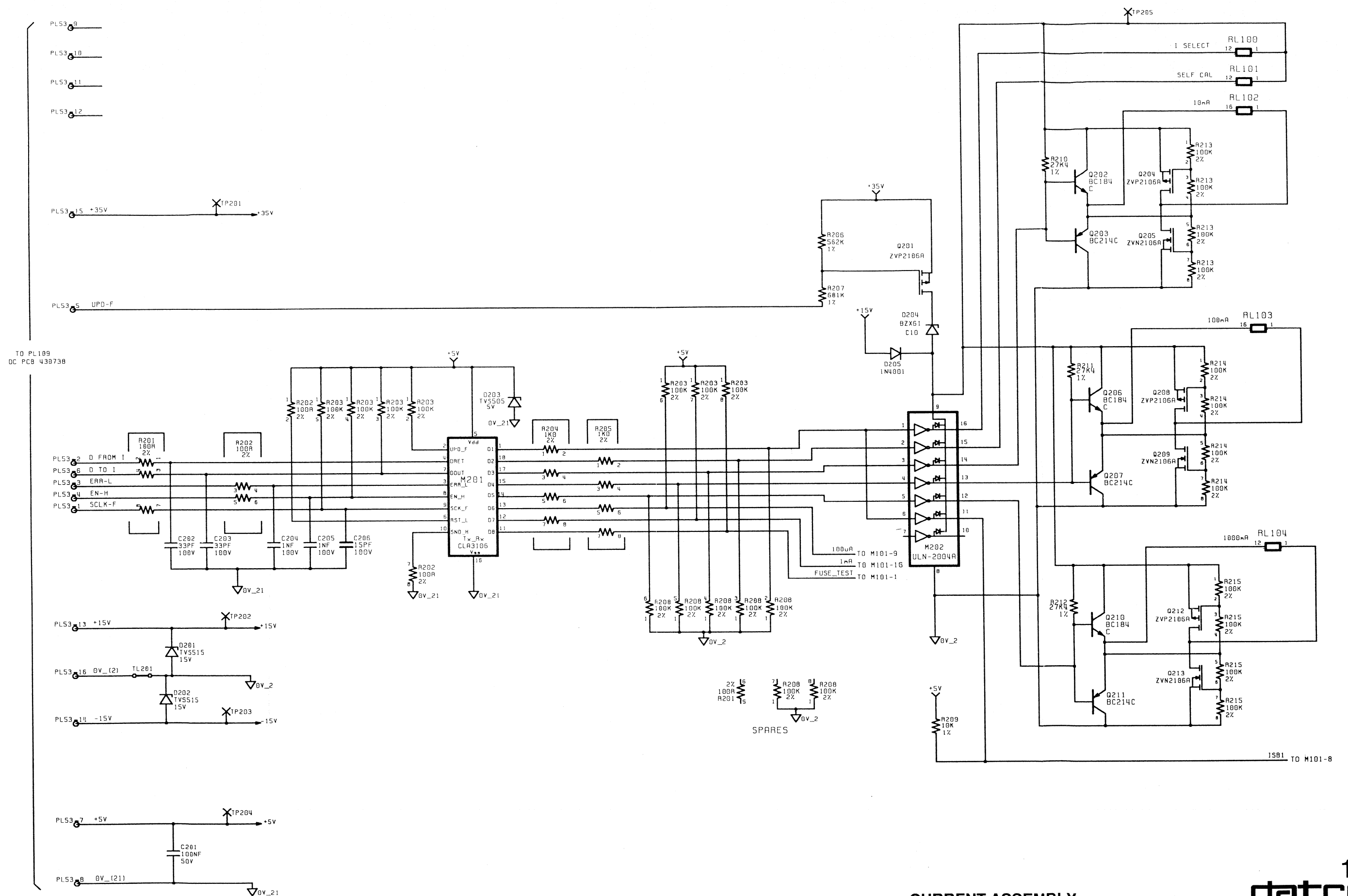
1281  
**datron**  
**WAVETEK**  
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C101 IS 470PF(102471) IF R111 MANUFR IS MANN  
C101 IS 330PF(102331) IF R111 MANUFR IS KELVIN

D103 104 105 106  
TWO BEADS PER LEAD  
D201 202 203  
ONE BEAD PER LEAD





# CURRENT ASSEMBLY

Control Logic

Drawing No. 430743

Sheet 2 of 2

1281  
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|                             |                |              |                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |     |     |     |     |     |  |  |  |  |
|-----------------------------|----------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| DRAWING No<br><b>400743</b> |                | CHKD         | 1.0 12692 11NOV87 ml<br>1.0 2731 19NOV87<br>1.1 12782 24FEB88<br>1.2 2862 29APR88<br>1.3 2893 11MAY88<br>1.4 2942 15JUN88<br>2.0 2957 12AUG88<br>2.1 3075 14OCT88<br>2.2 3090 21OCT88<br>2.3 3173 21DEC88                                                                                                                                                                                                                                  |     |     |     |     |     |     |     |  |  |  |  |
| DI WAM                      |                | DATE         |                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |     |     |     |     |     |  |  |  |  |
|                             |                | ECO          |                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |     |     |     |     |     |  |  |  |  |
|                             |                | REVISION     |                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |     |     |     |     |     |  |  |  |  |
|                             |                | ISSUE        |                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |     |     |     |     |     |  |  |  |  |
| DESCRIPTION                 | DRAWING NUMBER | SHEET NUMBER | ISSUE - REVISION                                                                                                                                                                                                                                                                                                                                                                                                                           |     |     |     |     |     |     |     |  |  |  |  |
| COMPONENT LAYOUT            | 480743         | 1            | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.1 | 1.2 | 1.3 | 2.0 | 2.1 | 2.2 | 2.3 |  |  |  |  |
| L.P.                        | 400743         | ALL          |                                                                                                                                                                                                                                                                                                                                                                                                                                            |     | 1.2 | 1.3 | 2.0 | 2.1 | 2.2 | 2.3 |  |  |  |  |
| SCHEMATIC                   | 430743         | 1            | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.1 | 1.2 | 1.3 | 2.0 | 2.1 | 2.2 | 2.3 |  |  |  |  |
| SCHEMATIC                   | 430743         | 2            | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.1 | 1.2 | 1.3 | 2.0 | 2.1 | 2.2 | 2.3 |  |  |  |  |
| FUNCTIONAL TEST PROC.       | 460743/FT      | -            | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |     |     | 2.0 |     |     |     |  |  |  |  |
| FUNC. TEST TICK LIST        | 470743/FT      | -            | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |     |     | 2.0 |     |     |     |  |  |  |  |
| PCB                         | 410400         | 1            | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |     |     |     |     |     |     |  |  |  |  |
| NOTES                       |                |              | <div style="display: flex; justify-content: space-between;"> <div> <p>☐ DENOTES NO CHANGE TO DOCS AT ISSUE LEVEL CHANGE</p> </div> <div> <p><b>datron</b><br/>NORWICH ENGLAND</p> </div> <div> <p>CHKD <i>me</i><br/>DATE 11 NOV 87</p> </div> <div> <p>APPD <i>me</i><br/>DATE 16 NOV 87</p> </div> <div> <p>TITLE<br/><b>1281<br/>CURRENT PCB ASSY</b></p> </div> <div> <p>DRAWING No<br/><b>400743</b><br/>SHEET 1 OF</p> </div> </div> |     |     |     |     |     |     |     |  |  |  |  |

- 3 JAN 1989

DATRON INSTRUMENTS LTD PARTS LIST 20-Dec-88 DESC: ASSY PCB CURRENT 1281 DRG NO: LP400743-2 REV: 3 PAGE NO: 1

| DESIG | PART NO | DESCRIPTION               | PRINC MANUF | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|---------|---------------------------|-------------|-------------------|-------|----|----------|---------|
| R101  | 011001  | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 2        |         |
| R102  | 011003  | RES MF 100K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R103  | 041004  | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R104  | 041004  | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R105  | 041004  | RES MF 1M00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R106  | 012211  | RES MF 2K21 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R107  | 011002  | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R108  | 011003  | RES MF 100K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R109  | 011002  | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R110  | 011003  | RES MF 100K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R111  | 070123  | RES WR 900R .1% 5PPM      | VISHAY MANN | MX125B            |       | EA | 1        |         |
| R112  | 070124  | RES WR 90R .1% 5PPM       | VISHAY MANN | MX125B            |       | EA | 1        |         |
| R113  | 070125  | RES WR 9R .1% 5PPM        | VISHAY MANN | AX175BT           |       | EA | 1        |         |
| R114  | 070126  | RES WR 1R .1% 5PPM        | VISHAY MANN | LR500BU           |       | EA | 1        |         |
| R115  | 070127  | RES WR 0R1 .1% 5PPM       | VISHAY MANN | LR500BU           |       | EA | 1        |         |
| R116  | 011001  | RES MF 1K00 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R201  | 090105  | RES PACK 100R X 4 2%      | BECKMAN     | LO8-3-R100        |       | EA | 2        |         |
| R202  | 090105  | RES PACK 100R X 4 2%      | BECKMAN     | LO8-3-R100        |       | EA | -        |         |
| R203  | 090017  | RES NTRK 100K X 7 2%      | BECKMAN     | LO8-1-R100K       |       | EA | 2        |         |
| R204  | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       | EA | 2        |         |
| R205  | 090168  | RES PACK 1K X 4 2%        | AB          | 770-83-1K         |       | EA | -        |         |
| R206  | 045623  | RES MF 562K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R207  | 046813  | RES MF 681K 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 1        |         |
| R208  | 090017  | RES NTRK 100K X 7 2%      | BECKMAN     | LO8-1-R100K       |       | EA | -        |         |
| R209  | 011002  | RES MF 10K0 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R210  | 012742  | RES MF 27K4 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | 3        |         |
| R211  | 012742  | RES MF 27K4 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R212  | 012742  | RES MF 27K4 1% .12W 50PPM | HOLSWORTHY  | H8C               | A     | EA | -        |         |
| R213  | 090167  | RES PACK 100K X 4 2%      | BECKMAN     | LO8-3-R100K       |       | EA | 3        |         |
| R214  | 090167  | RES PACK 100K X 4 2%      | BECKMAN     | LO8-3-R100K       |       | EA | -        |         |
| R215  | 090167  | RES PACK 100K X 4 2%      | BECKMAN     | LO8-3-R100K       |       | EA | -        |         |
| C101  | 10000F  | CAP FSV                   |             |                   |       | EA | 1        |         |
| C102  | 00000H  | NOT FITTED                |             |                   |       | EA | 1        |         |
| C201  | 104025  | CAP CD 100NF +80%-20% 50V | SIEMENS     | B37449            |       | EA | 1        |         |
| C202  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339    |       | EA | 2        |         |
| C203  | 100330  | CAP CP 33PF 2% 100V       | PHILIPS     | 2222 683 34339    |       | EA | -        |         |
| C204  | 100102  | CAP CP 10NF 10% 100V      | PHILIPS     | 2222 630 19102    |       | EA | -        |         |
| C205  | 100102  | CAP CP 10NF 10% 100V      | PHILIPS     | 2222 630 19102    |       | EA | -        |         |
| C206  | 100150  | CAP CP 15PF 2% 100V       | PHILIPS     | 2222 683 10159    |       | EA | 1        |         |
| D101  | 220020  | DIODE FET 100pA IR        | TELEDYNE    | PAD100            |       | EA | 4        |         |
| D102  | 220020  | DIODE FET 100pA IR        | TELEDYNE    | PAD100            |       | EA | -        |         |
| D103  | 200022  | DIODE GP 3A 400V          | MOTOROLA    | BY252             | A     | EA | 4        |         |
| D104  | 200022  | DIODE GP 3A 400V          | MOTOROLA    | BY252             | A     | EA | -        |         |
| D105  | 200022  | DIODE GP 3A 400V          | MOTOROLA    | BY252             | A     | EA | -        |         |
| D106  | 200022  | DIODE GP 3A 400V          | MOTOROLA    | BY252             | A     | EA | -        |         |

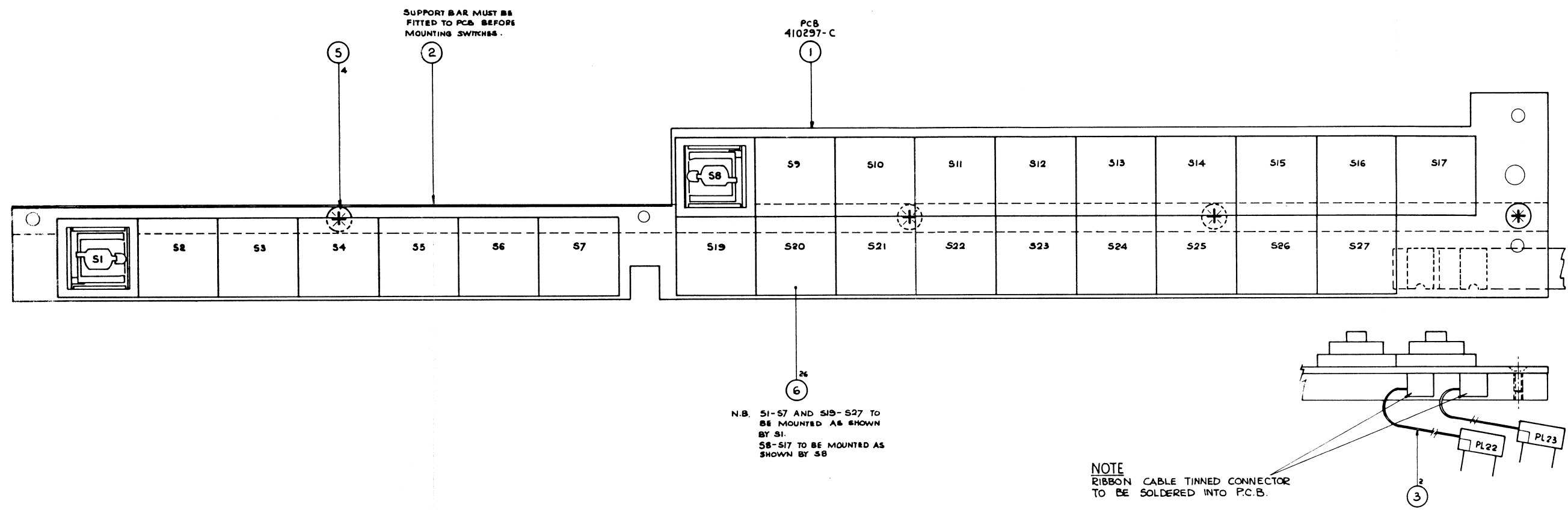


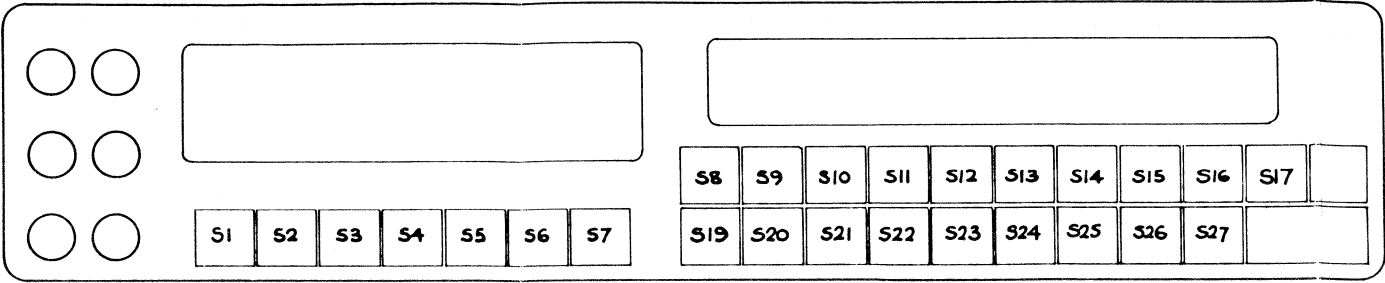
| DESIG | PART NO  | DESCRIPTION                  | PRINC MANUF  | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|------------------------------|--------------|-------------------|-------|----|----------|---------|
| D107  | 200008   | DIODE GP 200mA 125V          | FAIRCHILD    | 1H458A            | A     | EA | 2        |         |
| D108  | 200008   | DIODE GP 200mA 125V          | FAIRCHILD    | 1H458A            | A     | EA | -        |         |
| D109  | 220020   | DIODE FET 100pA IR           | TELEDYNE     | PAD100            |       | EA | -        |         |
| D110  | 220020   | DIODE FET 100pA IR           | TELEDYNE     | PAD100            |       | EA | -        |         |
| D201  | 213009   | DIODE ZN 15V 5W              | UNITRODE     | TVS515            |       | EA | 2        |         |
| D202  | 213009   | DIODE ZN 15V 5W              | UNITRODE     | TVS515            |       | EA | -        |         |
| D203  | 213006   | DIODE ZN 5V 5W               | UNITRODE     | TVS505            |       | EA | 1        |         |
| D204  | 211100   | DIODE ZN 10V 1.3W            | PHILIPS      | BZV85C10          |       | EA | 1        |         |
| D205  | 200002   | DIODE GP 1A 50V              | FAIRCHILD    | 1H4001            |       | EA | 1        |         |
| Q101  | 230003   | TRAN JFET N CHAN             | TELEDYNE     | U1899JF           |       | EA | 1        |         |
| Q102  | 230035   | TRAN JFET N-CHAN             | TELEDYNE     | U1897JF           |       | EA | 2        |         |
| Q103  | 230035   | TRAN JFET N-CHAN             | TELEDYNE     | U1897JF           |       | EA | -        |         |
| Q201  | 230086   | TRAN MOSFET P-CHAN 60V       | FERRANTI     | ZVP2106A          |       | EA | 4        |         |
| Q202  | 240013   | TRAN NPN TO18                | NATIONAL     | BC184C/TO18       |       | EA | 3        |         |
| Q203  | 250008   | TRAN PNP TO18                | NATIONAL     | BC214C/TO18       |       | EA | 3        |         |
| Q204  | 230086   | TRAN MOSFET P-CHAN 60V       | FERRANTI     | ZVP2106A          |       | EA | -        |         |
| Q205  | 230096   | TRAN MOSFET N CHAN 60V       | FERRANTI     | ZVN2106A          |       | EA | 3        |         |
| Q206  | 240013   | TRAN NPN TO18                | NATIONAL     | BC184C/TO18       |       | EA | -        |         |
| Q207  | 250008   | TRAN PNP TO18                | NATIONAL     | BC214C/TO18       |       | EA | -        |         |
| Q208  | 230086   | TRAN MOSFET P-CHAN 60V       | FERRANTI     | ZVP2106A          |       | EA | -        |         |
| Q209  | 230096   | TRAN MOSFET N CHAN 60V       | FERRANTI     | ZVN2106A          |       | EA | -        |         |
| Q210  | 240013   | TRAN NPN TO18                | NATIONAL     | BC184C/TO18       |       | EA | -        |         |
| Q211  | 250008   | TRAN PNP TO18                | NATIONAL     | BC214C/TO18       |       | EA | -        |         |
| Q212  | 230086   | TRAN MOSFET P-CHAN 60V       | FERRANTI     | ZVP2106A          |       | EA | -        |         |
| Q213  | 230096   | TRAN MOSFET N CHAN 60V       | FERRANTI     | ZVN2106A          |       | EA | -        |         |
| M101  | 280167   | IC DIG SWITCH QUAD CMOS      | SILICONIX    | DG211CJ           |       | EA | 1        |         |
| M102  | 260027   | IC LIN OP AMP                | FAIRCHILD    | UA714HC           |       | EA | 1        |         |
| M201  | 280132   | IC DIG ULA SERIAL TX/RX      | FLEISSEY     | CLA3106           |       | EA | 1        |         |
| M202  | 290077   | IC DIG 7 X DARLINGTON DRIVER | SPRAGUE/EXAR | ULN2004A/XR2204CP |       | EA | 1        |         |
| RL100 | 330036   | RELAY 3PNO 1PNC              | SDS          | S3-24V            |       | EA | 2        |         |
| RL101 | 330031   | RELAY 2FNO 2PNC              | SDS          | S2-24V            |       | EA | 1        |         |
| RL102 | 330029   | RELAY 2P2W                   | SDS          | DS2E-DC24V        |       | EA | 2        |         |
| RL103 | 330029   | RELAY 2P2W                   | SDS          | DS2E-DC24V        |       | EA | -        |         |
| RL104 | 330036   | RELAY 3PNO 1PNC              | SDS          | S3-24V            |       | EA | -        |         |
| PL50  | 604075   | PLUG PCB 6-WAY .1"           | MOLEX        | 22-29-2061        |       | EA | 1        |         |
| PL51  | 604074   | PLUG PCB 3-WAY .1"           | MOLEX        | 22-29-3031        |       | EA | 1        |         |
| PL52  | 604033   | PLUG PCB 4-WAY .1"           | MOLEX        | 22-29-2041        |       | EA | 1        |         |
| PL53  | 604076   | PLUG PCB 16-WAY .1"X.1" GRID | 3M           | 3599-6002 UN      |       | EA | 1        |         |
| PL54  | 604085   | PLUG PCB 2-WAY .1"           | MOLEX        | 22-29-2021        |       | EA | 1        |         |
| TL201 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           |       | EA | 3        |         |
| TL202 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           |       | EA | -        |         |
| TL203 | 620013-1 | TEST LOOP                    | DATRON       | SEE DRG           |       | EA | -        |         |
| TP101 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          |       | EA | 11       |         |
| TP102 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          |       | EA | -        |         |
| TP103 | 620007   | TEST POINT TERMINAL          | MICROVAR     | TYPE C30          |       | EA | -        |         |

| DESIG | PART NO  | DESCRIPTION                    | PRINC MANUF          | MANUF PART NUMBER | CLASS | UM | QUANTITY | CHANGES |
|-------|----------|--------------------------------|----------------------|-------------------|-------|----|----------|---------|
| TP104 | 620007   | TEST POINT TERMINAL            | MICROVAR             | TYPE C30          |       | EA | -        |         |
| TP105 | 620007   | TEST POINT TERMINAL            | MICROVAR             | TYPE C30          |       | EA | -        |         |
| TP106 | 620007   | TEST POINT TERMINAL            | MICROVAR             | TYPE C30          |       | EA | -        |         |
| TP201 | 620007   | TEST POINT TERMINAL            | MICROVAR             | TYPE C30          |       | EA | -        |         |
| TP202 | 620007   | TEST POINT TERMINAL            | MICROVAR             | TYPE C30          |       | EA | -        |         |
| TP203 | 620007   | TEST POINT TERMINAL            | MICROVAR             | TYPE C30          |       | EA | -        |         |
| TP204 | 620007   | TEST POINT TERMINAL            | MICROVAR             | TYPE C30          |       | EA | -        |         |
| TP205 | 620007   | TEST POINT TERMINAL            | MICROVAR             | TYPE C30          |       | EA | -        |         |
|       | 400757-1 | ASSY CABLE RIBBON 16W          | DATRON               | SEE DRG           |       | EA | 1        |         |
|       | 400753-1 | ASSY CABLE SIG IP 1281         | DATRON               | SEE DRG           |       | EA | 1        |         |
|       | 410400-1 | PCB CURRENT 1281               |                      | SEE DRG           |       | EA | 1        |         |
|       | 512999   | WIRE 7/.2 PTFE 1KV WHI         | BSG210               | TYPE C            |       | AR | 1        |         |
|       | 590001   | SLEEVE RP 1.5 X 20MM BLK       | HELLERMANN           | H15               |       | EA | 2        |         |
|       | 590002   | SLEEVE RP 3 X 25MM BLK         | HELLERMANN           | H30               |       | EA | 2        |         |
|       | 605057   | CRIMP TERMINAL GD PL           | MOLEX                | 4809-GL           |       | EA | 2        |         |
|       | 605061   | SOCKET PCB 16-WAY DIL          | JERMYN               | J23-18016         | A     | EA | 2        |         |
|       | 605062   | SOCKET PCB 18-WAY DIL          | JERMYN               | J23-18018         | A     | EA | 1        |         |
|       | 605127   | SOCKET LINK 2-WAY .1" BLK      | ASSMANN              | AKSPL-G           |       | EA | 1        |         |
|       | 605164   | SOCKET HOUSING 2 WAY .1" PITCH | MOLEX                | 22-01-2025        |       | EA | 1        |         |
|       | 617014   | NYLATCH PLUNGER 1/4"           | HARTWELL (C.J. FOX)  | HN4P-43           |       | EA | 5        |         |
|       | 617015   | NYLATCH GROMMET 1/4"           | HARTWELL (C.J. FOX)  | HN4G-43           |       | EA | 5        |         |
|       | 630024   | BEAD CERAMIC 16 SWG            | PARK ROYAL PORCELAIN | No2               |       | EA | 2        |         |
|       | 630243   | BEAD GLASS 2.4 X 0.81 X 1.8    | MANSOL (PREFORMS) LT | M5363B/3          |       | EA | 2        |         |
|       | 920071   | FUSE 1.6A 250V 20MM F          | BESWICK              | S501              |       | EA | 1        |         |
|       | 920082   | FUSE HOLDER 20MM PANEL         | BELLING LEE          | L2002             |       | EA | 1        |         |

End

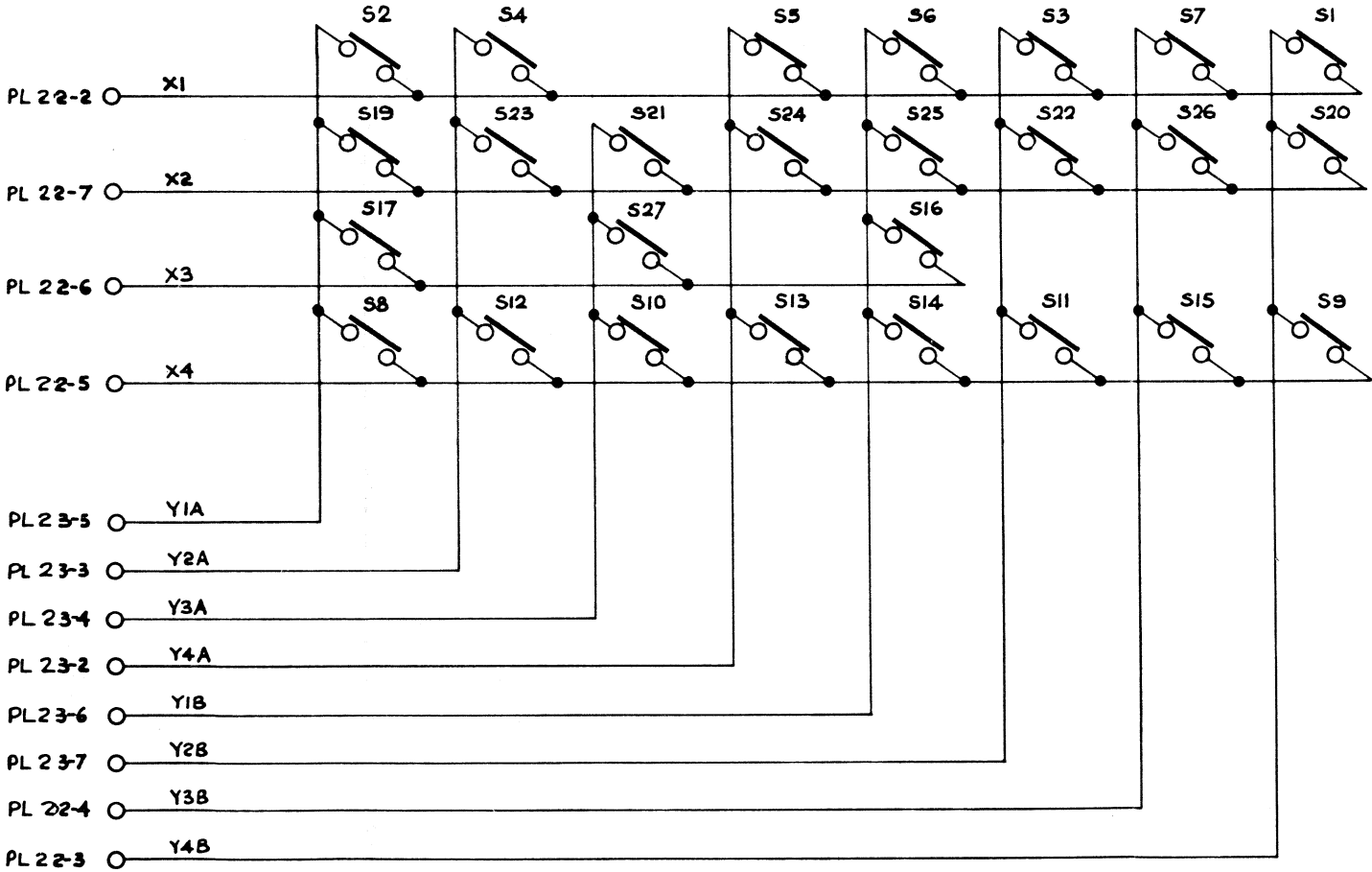
**SWITCH ASSEMBLY**





FRONT PANEL SWITCH LAYOUT.

PL 22-1 ○ SPARE  
 PL 22-8 ○ SPARE  
 PL 23-1 ○ SPARE  
 PL 23-8 ○ SPARE



| KEY N° | * KB4-KBØ | KEY N° | * KB4-KBØ |
|--------|-----------|--------|-----------|
| 1      | 1C        | 17     | Ø2        |
| 2      | ØØ        |        |           |
| 3      | 14        | 19     | Ø1        |
| 4      | Ø4        | 20     | 1D        |
| 5      | ØC        | 21     | Ø9        |
| 6      | 1Ø        | 22     | 15        |
| 7      | 18        | 23     | Ø5        |
| 8      | Ø3        | 24     | ØD        |
| 9      | 1F        | 25     | 11        |
| 10     | ØB        | 26     | 19        |
| 11     | 17        | 27     | ØA        |
| 12     | Ø7        |        |           |
| 13     | ØF        |        |           |
| 14     | 13        |        |           |
| 15     | 1B        |        |           |
| 16     | 12        |        |           |

\* FOR KBØ-KB5 REFER TO 400739

KB5 IS A LOGIC '1' WHILE A VALID KEY IS HELD. THE KEY ENCODER OUTPUT ALWAYS INDICATES THE LAST VALID KEY ON KB4-KBØ.



## DATRON INSTRUMENTS FAILURE REPORT.

Please complete all sections and return with your instrument.

Company: .....  
Division: ..... Department/Mail Stop .....  
User, Name: ..... Telephone ..... Ext .....  
Serial number: .....  
Datron Return Authorisation number ..... Date of failure .....

Brief description of fault: .....  
.....  
.....  
.....  
.....

### Fault details:

is the fault present on all ranges? Yes ☐ No ☐ Not Applicable ☐  
if no describe: .....  
is the fault present on all functions? Yes ☐ No ☐ Not Applicable ☐  
is the fault: Permanent ☐ Intermittent ☐  
if intermittent under what conditions does the fault re-appear .....

Does the instrument pass 'self test?' Yes ☐ No ☐

Any fail/error message displayed:

Now: Yes ☐ No ☐ if yes describe .....

At the time of fault: Yes ☐ No ☐

if yes describe .....

Prior to fault: Yes ☐ No ☐

if yes describe .....

Is the instrument used on I.E.E.E 488 bus? Yes ☐ No ☐

Is the instrument normally enclosed in a rack? Yes ☐ No ☐

Approximate ambient temperature .....

# TERMS AND CONDITIONS OF SALE

## 1. GENERAL

The acceptance of a quotation, of any goods supplied, advice given or service rendered includes the acceptance of the following terms and conditions and no variation of or addition to the same shall be binding upon us unless expressly agreed in writing by us. Any order shall be subject to our written acceptance.

## 2. QUOTATION

Unless previously withdrawn our quotation is open to acceptance in writing within the period stated or where no period is stated within thirty (30) days after its date. We reserve the right to correct any errors or omissions in our quotation. Unless otherwise stated all quotations are firm and fixed. The prices quoted are based on manufacture of the quantity and type ordered and are subject to revision when interruptions, engineering changes or changes in quantity are caused or requested by the customer.

## 3. LIABILITY FOR DELAY

Any delivery times quoted are from the date of our written acceptance of any order and on receipt of all information and drawings to enable us to put the work in hand. Where delivery is to take place by instalments each such instalment shall constitute a separate contract. We will use our best endeavours to complete delivery of the goods or services in the period stated but accept no liability in damages or otherwise for failure to do so for any cause whatsoever. In all cases of delay the delivery time shall be extended by reasonable period having regard to the cause of delay.

## 4. PAYMENT

Payment shall be made net cash within thirty (30) days of delivery or in accordance with the payment terms set out in the quotation. Unless specifically stated to the contrary payment shall be in pounds sterling. In the event of any payment to us being overdue we may without prejudice to any other right suspend delivery to you or terminate the contract and/or charge you simple interest on overdue amounts at the rate of 2.5% above the ruling Bank of England Minimum Lending Rate. No payment to us shall in any circumstance be offset against any sum owing by us to you whether in respect of the present transaction or otherwise.

## 5. INSPECTION & TEST

All goods are fully inspected at our works and where practicable subjected to our standard tests before despatch. If tests are required to be witnessed by your representative notice of this must be given at the time of placing the order and notice of readiness will then be given to you seven (7) days in advance of such tests being carried out. In the event of any delay on your part in attending such tests or in carrying out inspection by you after seven (7) days notice of readiness the tests will proceed in your absence and shall be deemed to have been made in your presence and the inspection deemed to have been made by you. In any event you shall be required promptly after witnessing a test or receiving test results of witnessed or unwitnessed tests to notify us in writing of any claimed defects in the goods or of any respect in which it is claimed that the goods do not conform with the contract. Before you become entitled to reject any goods we are to be given reasonable time and opportunity to rectify them. You assume the responsibility that the goods stipulated by you are sufficient and suitable for your purpose and take all steps to ensure that the goods will be safe and without risk to health when properly used. Any additional certification demanded may incur extra cost for which a special quotation will be issued.

## 6. DELIVERY AND PACKING

All shipments are, unless otherwise specifically provided, Ex-works which is the address given on the invoice. An additional charge will be made for carriage and insurance as necessary with the provision that all shipments shall be insured and this insurance expense shall be paid by the purchaser. Where special domestic or export packing is specified a charge will be made to cover the extra expense involved.

## 7. DAMAGE IN TRANSIT

Claims for damage in transit or loss in delivery of the goods will only be considered if the carriers and ourselves receive notice of such damage within seven (7) days of delivery or in the event of loss of goods in transit within fourteen (14) days of consignment.

## 8. TRANSFER OF PROPERTY & RISK

Title and property of the goods shall pass when full payment has been received of all sums due to us whether in respect of the present transaction or not. The risk in the goods shall be deemed to have passed on delivery.

## 9. WARRANTY

We agree to correct, either by repair, or at our election, by replacement, any defects of material or workmanship which develop within the warranty period specified in the sales literature or quotation after delivery to the original purchaser. All items claimed defective must be promptly returned to us carriage paid unless otherwise arranged and will be returned to you free of charge. Unless otherwise agreed no warranty is made concerning components or accessories not manufactured by us. We will be released from all obligations under warranty in the event of repairs or modifications made by persons other than our own authorised service personnel unless such repairs are made with our prior written consent.

## 10. PATENTS

We will indemnify you against any claim of infringement of Letters Patent, Registered Design, Trade Mark or Copyright (published at the date of the contract) by the use or sale of any goods supplied or service rendered by us to you and against all costs and damages which you may incur and for which you may become liable in any action for such infringement. Provided always that this indemnity shall not apply to any infringement which is due to our having followed a design or instruction furnished or given by you or to the use of such goods or service in association or combination with any other article, material or service not supplied by us. This indemnity is conditional on your giving to us the earliest possible notice in writing of any claim being made or action threatened or brought against you and on your permitting us at our own expense to conduct litigation that may ensue and all negotiations for a settlement of the claim or action. You on your part warrant that any design or instruction furnished or given by you shall not cause us to infringe any Letter Patent, Registered Design, Trade Mark or Copyright in the execution of your order.

## 11. DOCUMENTATION

All drawings, plans, designs, software specifications, manuals and technical documents and information supplied by us for your use or information shall remain at all times our exclusive property and must not be copied, reproduced, transmitted or communicated to a third party without our prior written consent.

## 12. FRUSTRATION

If any contract or any part of it shall become impossible of performance or otherwise frustrated we shall be entitled to a fair and reasonable proportion of the price in respect of the work done up to the date thereof. For this purpose any monies previously paid by you shall be retained against the sum due to us under this provision. We may dispose of the goods as we think fit due allowance being made to you for the net proceeds thereof.

## 13. BANKRUPTCY

If the purchaser shall become bankrupt or insolvent, or being a Limited Company commence to be wound up or suffer a Receiver to be appointed, we shall be at liberty to treat the contract as terminated and be relieved of further obligations. This shall be without prejudice to our right to claim for damages for breach of contract.

## 14. LEGAL INTERPRETATION

Any contract will be deemed to be made in England and shall be governed and construed for all purposes and in all respects in accordance with English Law and only the Courts of England shall have jurisdiction.



## Datron Sales and Service Representatives Worldwide

| COUNTRY and REPRESENTATIVE                                                                                                                    | Telephone            | Telex                           | Fax                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------|----------------------|
| <b>AUSTRALIA</b>                                                                                                                              |                      |                                 |                      |
| Scientific Devices Pty. Ltd<br>2 Jacks Road, South Oakleigh,<br>Victoria 3167                                                                 | 3 579 3622           | AA32742                         | 3 579 0971           |
| <b>AUSTRIA</b>                                                                                                                                |                      |                                 |                      |
| Walter Rekirsch Elektronisch Geraete GmbH & Co.<br>Obachgasse 28,<br>A-1220 Wien                                                              | 222 253626           | 134759                          | 222 2572 75          |
| <b>BELGIUM</b>                                                                                                                                |                      |                                 |                      |
| Air-Parts International B. V.<br>Avenue Huart-Hamoir, 1-Box 34,<br>1030 Bruxelles                                                             | 2 241 6460           |                                 | 2 241 8130           |
| <b>BRAZIL</b>                                                                                                                                 |                      |                                 |                      |
| Sistronics Instrumentacao E Sistemas Ltda<br>Av. Alfredo Egidio de Souza Aranha<br>75-3 & 4 Andares-Jd. Santo Antonio,<br>CEP 04726 Sao Paulo | 11 247558            | 57155 SNCS                      | 11 5238457           |
| <b>CHINA</b>                                                                                                                                  |                      |                                 |                      |
| Tianjin Zhong Huan Scientific Instruments Corp.<br>No. 59 Zhao Jia Chang Street,<br>Hong Qiao Section, Tianjin                                | Tianjin<br>753732    | -----                           | -----                |
| <b>DENMARK</b>                                                                                                                                |                      |                                 |                      |
| Instrutek A/S,<br>Christiansholmsgade<br>8700 Horsens                                                                                         | 5 611100             | 61656                           | 5 615 658            |
| <b>EASTERN EUROPE</b>                                                                                                                         |                      |                                 |                      |
| Amtest Associates Ltd<br>Amtest House, 75-79 Guildford Street,<br>Chertsey, Surrey KT16 9AS, England                                          | 0932 568355          | 928855                          | 0932 561919          |
| <b>EGYPT &amp; MIDDLE EAST</b>                                                                                                                |                      |                                 |                      |
| EPIC<br>20-22 Ashmoun St, PO Box 2682,<br>Horriya, Heliopolis                                                                                 | 2 661767<br>2 669861 | 23033 CHAKA UN<br>23315 EPIC UN | 2 662839<br>2 668924 |
| <b>FINLAND</b>                                                                                                                                |                      |                                 |                      |
| Profelec OY<br>PO Box 67, 00421 Helsinki 42                                                                                                   | 0 566 4477           | 125225 PROFE SF                 | 0 566 2998           |

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|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|--------------------|
| <b>FRANCE</b>                                                                                                                      |                                     |                                  |                    |
| <b>M. B. Electronique</b><br>606 Rue Fourny, Zi de Buc, 78530 Buc                                                                  | 1 39 568131                         | 695414                           | 1 39 565344        |
| <b>WEST GERMANY</b>                                                                                                                |                                     |                                  |                    |
| <b>WAVETEK Electronics GmbH</b><br>Freisinger Straße 34,<br>8045 Ismaning                                                          | 0 89 96 09 49-0                     | 5 212 996 WVTK D                 | 0 89 96 71 70      |
| <b>GREECE</b>                                                                                                                      |                                     |                                  |                    |
| <b>American Technical Enterprises SA</b><br>PO Box 3156<br>39, Agiou Konstantinou Street,<br>Athens 10210.                         | 5240620<br>5240740                  | 216046 ATE GR                    | 5249995            |
| <b>HONG KONG</b>                                                                                                                   |                                     |                                  |                    |
| <b>Eurotherm (Far East) Ltd</b><br>18/F., Gee Chang Hong Centre,<br>65 Wong Chuk Hang Road, Hong Kong                              | 8140311 (Sales)<br>546391 (Service) | 72449 EFELD HX<br>72449 EFELD HX | 8735974<br>8700497 |
| <b>INDIA</b>                                                                                                                       |                                     |                                  |                    |
| <b>Technical Trade Links</b><br>• Deodahar Centre, Gyani Compound,<br>424 Marol Maroshi Road,<br>Andheri (East),<br>Bombay 400 059 | 22 6362412                          | 1179261 TTL IN                   | 9122 634 2204      |
| • 413, Pratap Chambers, Gurudwara Road,<br>Karol Bagh,<br>New Delhi - 110 005                                                      |                                     |                                  |                    |
| <b>IRELAND</b>                                                                                                                     |                                     |                                  |                    |
| <b>Euro Electronic Systems</b><br>Unit 1, Sandyford Park,<br>Sandyford Ind. Est.,<br>Dublin 18.                                    | 01 952326                           | -----                            | 01 952246          |
| <b>ISRAEL</b>                                                                                                                      |                                     |                                  |                    |
| <b>DAN-EL Technologies</b><br>Office 60, Pinkas St.<br>Tel-Aviv 62151.                                                             | 3 453157                            | 342105                           | 3 5441468          |
| <b>ITALY(1)</b>                                                                                                                    |                                     |                                  |                    |
| <b>Sistrel SPA</b><br>Via Pellizza da Volpedo 59<br>20092 Cinisello Balsamo, Milano                                                | 02 618 1893                         | 334643                           | 02 618 2440        |
| <b>ITALY(2)</b>                                                                                                                    |                                     |                                  |                    |
| <b>Sistrel SPA</b><br>Viale Erminio Spalla 41<br>00142 Roma                                                                        | 06 504 0273                         | 625857                           | 06 504 0067        |
| <b>ITALY(3)</b>                                                                                                                    |                                     |                                  |                    |
| <b>Sistrel SPA</b><br>Via Cintia Parco S. Paolo 35<br>80126 Napoli                                                                 | 081 767 9700                        | -----                            | 081 766 1361       |
| <b>JAPAN</b>                                                                                                                       |                                     |                                  |                    |
| <b>G &amp; G Japan Inc</b><br>No. 406, 12-16, 4-Chome,<br>Hongoh, Bunkyo-ku, Tokyo                                                 | 3 8130971                           | 2722884 ICHAIN J                 | 3 8159216          |



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| <b>KOREA</b><br>Sama Electronics Corporation<br>CPO Box 9517, Seoul                                                 | 2 271 2761       | K26375 SAMATR  | 2 271 2764     |
| <b>MALAYSIA</b><br>TME Systems Pte Ltd<br>21 Moonstone Lane,<br>No. 06-01, Poh Leng Building,<br>Singapore 1232     | 298 2608         | 37545          | 291 1935       |
| <b>MOROCCO</b><br>Minhol SA<br>64 Rue El Mortada,<br>Casablanca 02.                                                 | 254945           | 24064          | 254969         |
| <b>NETHERLANDS</b><br>Air Parts International BV<br>PO Box 255, 12 Kalkovenweg,<br>2400 AG Alphen aan den Rijn      | 1720 43221       | 39564          | 1720 20651     |
| <b>NEW ZEALAND</b><br>G. T. S. Engineering Ltd<br>5 Porters Avenue, Eden Terrace,<br>PO Box 9613 Newmarket AUCKLAND | 9 3092464        | -----          | 9 3092968      |
| <b>NORWAY</b><br>Morgenstjerne & Co.<br>Olaf Helsets vei 1,<br>P.O. box 15 - Bogerud<br>N-0621 Oslo 6               | 2 289490         | 71719 MOROF N  | 2 289494       |
| <b>PORTUGAL</b><br>Decada SA<br>Rua Margarida,<br>Palla. 11, 1495 Alges<br>Lisbon.                                  | 1 4103420        | 24476 ESPEC P  | 1 4101844      |
| <b>SAUDI ARABIA</b><br>Electronic Equipment Marketing<br>PO Box 3750,<br>Riyadh 11481,                              | 1 4771650        | 401120         | 1 4785140      |
| <b>SINGAPORE</b><br>Mecomb Singapore Ltd<br>Sime Darby Centre,<br>895 Dunearn Road, 04-2 Singapore 2158             | 469 8833         | RS 23178       | 467 1905       |
| <b>SOUTH AFRICA</b><br>Altech Instruments (Pty) Ltd<br>PO Box 39451, Wynberg 2018                                   | 11 887 6940      | 422033         | 11 887 7455    |
| <b>SPAIN</b><br>ESSA (Equipos y Systemas SA)<br>C/Apolonio Morales 13-B, Madrid 16                                  | 1 458 0150       | 42856          | 1 450 0150     |
| <b>SWEDEN</b><br>Ferner Elektronik AB<br>Järfällavägen 186,<br>S-175 40 Järfälla                                    | +46 758 189 90   | 10312 FERNER S | +46 758 179 90 |

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| <b>SWITZERLAND</b>                                                                    |                        |                  |                |
| <b>Kontron Electronic AG</b>                                                          |                        |                  |                |
| <b>Physical Address:</b>                                                              |                        |                  |                |
| In der Luberzen 1,<br>CH-8902 Urdorf                                                  | (01) 736 4111          | 822196 + KOEL CH | (01) 734 2448  |
| <b>Postal Address:</b>                                                                |                        |                  |                |
| P.O. Box CH-8010 Zurich                                                               |                        |                  |                |
| <b>TAIWAN</b>                                                                         |                        |                  |                |
| <b>Evergo Corporation</b>                                                             |                        |                  |                |
| Room A, 9th Floor, 305 Section,<br>3 Nan King East Road,<br>P. O. Box 96-546, Taipei  | 2 7150283/4/5          |                  | 2 7122466      |
| <b>TURKEY</b>                                                                         |                        |                  |                |
| <b>Turkelek</b>                                                                       |                        |                  |                |
| Hatay Sokak 8,<br>Ankara                                                              | 4 1189483<br>4 1252109 | 44580            | -----          |
| <b>UNITED KINGDOM</b>                                                                 |                        |                  |                |
| <b>Datron Instruments Ltd</b>                                                         |                        |                  |                |
| Hurricane Way, Norwich Airport,<br>Norwich, Norfolk NR6 6JB, England                  | 0603 404824            | 975173           | 0603 483670    |
| <b>UNITED STATES of AMERICA</b>                                                       |                        |                  |                |
| <b>Datron Instruments Inc</b>                                                         |                        | <b>TWX</b>       |                |
| c/o Wavetek RF Products Inc.<br>5808 Churchman Bypass,<br>Indianapolis, Indiana 46203 | (317) 787 3915         | (810) 341 3226   | (317) 788 5999 |
| <b>Wavetek Northeast Area Sales</b>                                                   |                        |                  |                |
| 35 Pinelawn Road, Suite 209W,<br>Melville, New York 11747                             | (516) 454 8440         | -----            | (516) 454 8446 |
| <b>Wavetek Western Area Sales</b>                                                     |                        | <b>TWX</b>       |                |
| 9045 Balboa Avenue, San Diego,<br>California 92123                                    | (619) 565 9315         | (910) 335 2007   | (619) 227 6221 |

**For customers in countries not listed please contact DATRON INSTRUMENTS in the United Kingdom:**

|                                                                      |             |        |             |
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| <b>Datron Instruments Ltd</b>                                        |             |        |             |
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