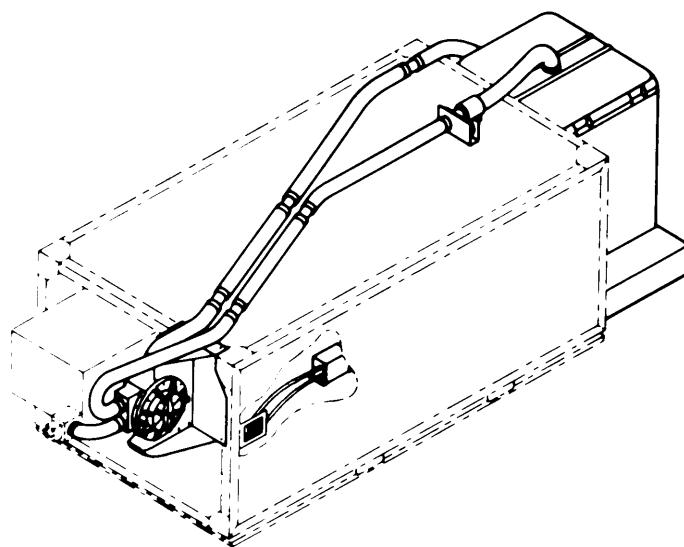


TECHNICAL MANUAL

DIRECT SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)



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| TROUBLESHOOTING | 2-1 |
| MAINTENANCE PROCEDURES FOR M12 PROTECTIVE ENTRANCE | 2-137 |
| MAINTENANCE PROCEDURES FOR M56 GAS-PARTICULATE FILTER UNIT | 2-144 |
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| INDEX | INDEX-1 |

COLLECTIVE PROTECTION EQUIPMENT, GUIDED MISSILE AIR
DEFENSE SYSTEM, AN/TSQ-73

CONSISTING OF
ENTRANCE, PROTECTIVE, PRESSURIZED: COLLAPSIBLE, M12
(NSN 4240-01-048-2923);
FILTER UNIT, GAS-PARTICULATE: 200 CFM, 208 V, 400 HZ, M56
(NSN 4240-00-237-0227)

AND
INSTALLATION KIT: CBR, PROTECTIVE EQUIPMENT, AN/TSQ-73, M263
(NSN 4240-01-063-7679)

HEADQUARTERS, DEPARTMENT OF THE ARMY
24 AUGUST 1982

CHANGE

NO. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 21 December 1989

DIRECT SUPPORT MAINTENANCE MANUAL
FOR
COLLECTIVE PROTECTION EQUIPMENT
GUIDED MISSILE AIR DEFENSE SYSTEM, AN/TSQ-73

1. The purpose of this change is to update guidance for disposal, handling, and storage of filters.
2. New or changed material is indicated by a vertical bar in the margin of the page. RPSTL listing changes are indicated by an asterisk to the left of the item number column adjacent to the line item.
3. Remove old pages and insert new pages as follows:

Remove Pages

None
B-17 and B-18

Insert Pages

a/(b blank)
B-17 and B-18

4. File this change sheet in front of the publication for reference purposes.

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

WILLIAM J. MEEHAN II
Brigadier General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-28-R, quantity required block 56,
TM 3-4240-286-30&P.

WARNING

HEALTH/ENVIRONMENTAL HAZARD

Filters use ASC Whetlerite Carbon which contains Chromium VI. Chromium VI is a known carcinogen if inhaled or swallowed. Damaged or unusable filters are classified as hazardous waste:

DO NOT throw away damaged or unusable filters as ordinary trash.

DO turn in damaged or unusable filters to your hazardous waste management office or Defense Reutilization and Marketing Office (DRMO).

Filters are completely safe to handle and use if they are not damaged in such a way that carbon leaks from them. In unlikely event that carbon should leak, use protection such as a dust respirator to cover nose and mouth and put carbon in container such as self-sealing plastic bag; turn in to hazardous waste management office or DRMO.

Disposal of hazardous waste is restricted by the Resource Conservation and Recovery Act as amended (42 U.S.C.A sec 6901 et seq). Violation of these laws is subject to severe criminal penalties.

TECHNI CAL MANUAL

No. 3-4240-286-30&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 24 August 1982

Di rect Support Maintenance Manual
(Including Repair Parts And Special Tools List)

COLLECTIVE PROTECTION EQUIPMENT, GUIDED MISSILE AIR
DEFENSE SYSTEM, AN/TSG-73

CONSI STING OF

ENTRANCE, PROTECTIVE, PRESSURIZED: COLLAPSIBLE, M12
(NSN 4240-01-048-2923);

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200 CFM, 208 V, 400 HZ, M56
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(NSN 4240-01-063-7679)

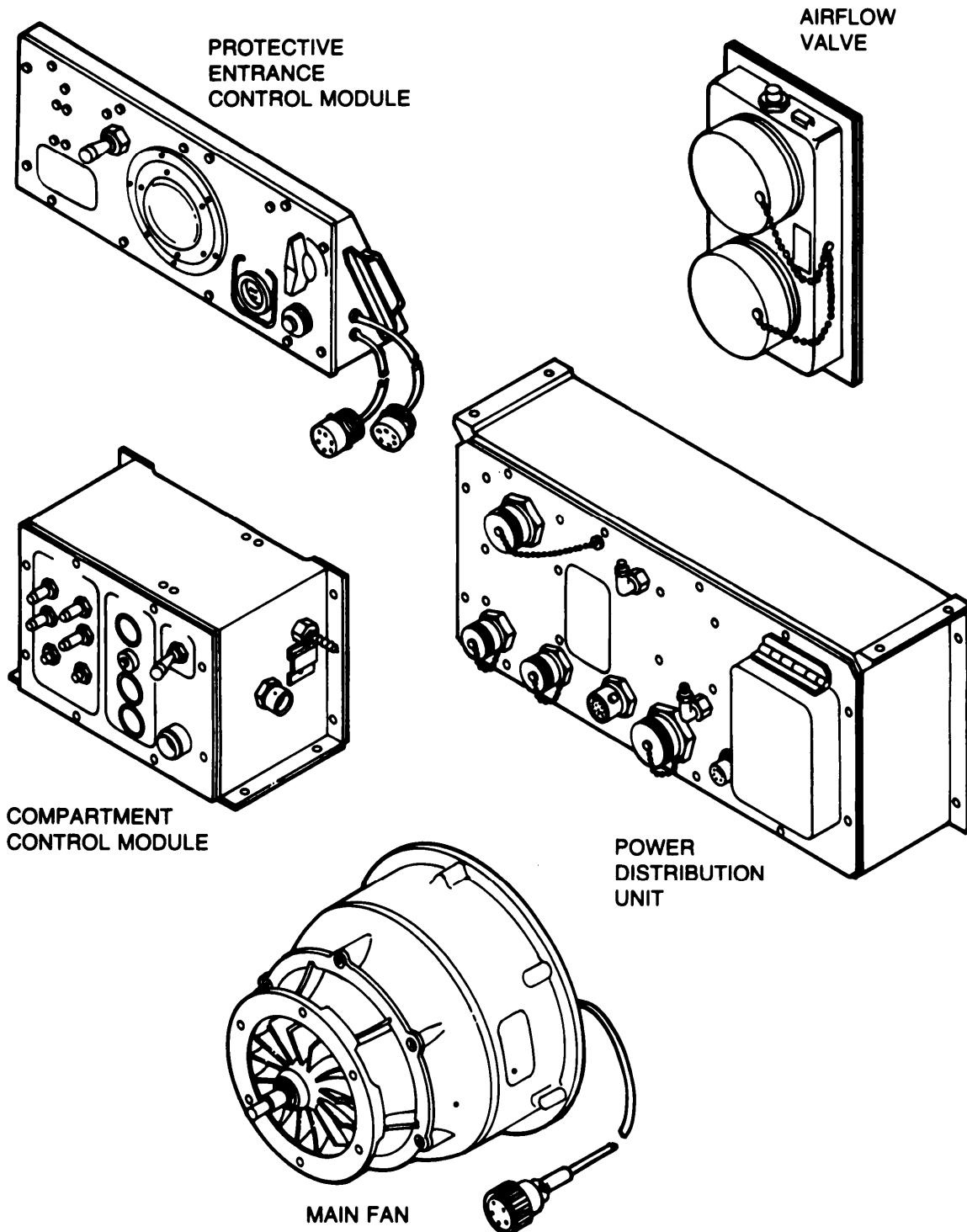
Current as of 3 March 1982 for Appendix B.

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS-C, Aberdeen Proving Ground, MD21010. A reply will be furnished to you.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE.

a. Type of Manual. Direct Support Maintenance, including the Repair Parts and Special Tools List.

b. Model Numbers and Equipment Names.

M12 protective entrance:

Protective entrance control module

M56 gas-particulate filter unit:

Main fan

Airflow valve

Power distribution unit

Compartment control module

M263 installation kit:

Airflow valve

c. Purpose of Equipment. Provides filtered air under positive pressure to field shelters.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE. Refer to TM 43-0002-31, Destruction of Chemical Weapons and Defense Equipment to Prevent Enemy Use.

1-4. NOMENCLATURE CROSS-REFERENCE

LIST. This listing includes nomenclature cross-references used in this manual.

| Common Name | Official Nomenclature |
|----------------------------------|-----------------------------|
| Compartment control module (CCM) | Control module, compartment |

| Common Name | Official Nomenclature |
|---|--|
| Differential pressure gage | Gage, differential, dial indicating |
| M56 gas-particulate filter unit | Filter unit, gas-particulate, M56 |
| M12 protective entrance | Entrance, protective, pressurized, M12 |
| M263 installation kit | Installation kit, M263 |
| Power card | Printed circuit board: power |
| Protective entrance control module (PECM) | Control module, protective entrance |
| Switching card | Printed circuit board: switching |

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR). If your collective protection equipment needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAP-A, Aberdeen Proving Ground, MD21010. A reply will be furnished directly to you.

Section II. EQUIPMENT DESCRIPTION AND DATA

1-6. DESCRIPTION AND TABULATED DATA. Refer to TM 3-4240-286-20&P.

Section III. REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

1-7. COMMON TOOLS AND EQUIPMENT. For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

1-8. SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT. No special tools, TMDE, or support equipment are required.

1-9. REPAIR PARTS. Repair parts are listed and illustrated in appendix B of this manual.

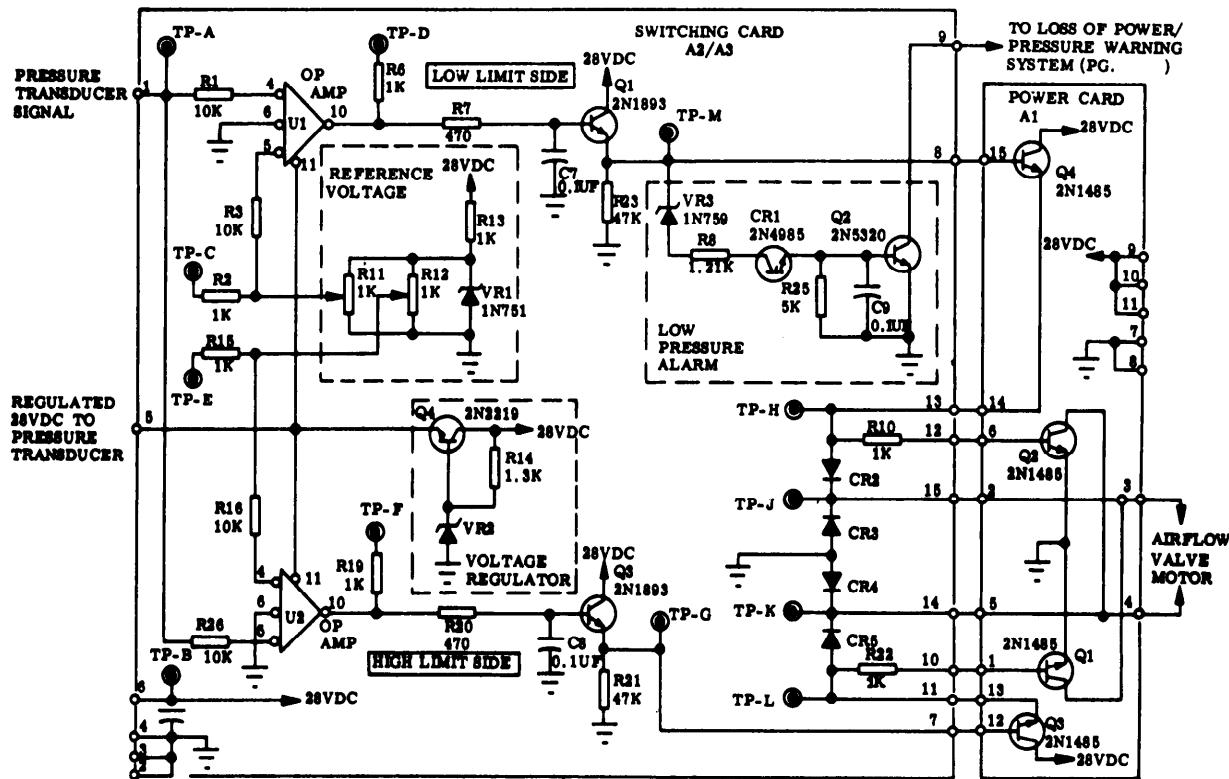
Section IV. PRINCIPLES OF OPERATION

1-10. PRESSURE CONTROL SYSTEM.

a. The basic function of the pressure control system is to control the air pressure in a protected compartment within the prescribed limits by controlling the opening of an airflow valve from the pressurized air supply, the filter unit. The prescribed limits are 1.2 to 1.7 inches water gage (hereafter referred to as in. wg) for the compartment or compartment control module and 0.4 to 0.8 in. wg for the protective entrance and protective entrance control module. The control system operates from 28 vdc power.

b. The compartment pressure is sensed by the pressure transducer which provides an output voltage of 2 volts/in. wg to pin 1 of the switching card. When the air pressure in the compartment drops below the desired low limit, 1.2 in. wg for switching card A2 or 0.4 in. wg for

switching card A3, the pressure transducer output voltage drops below the low limit reference voltage. An operational amplifier (op amp) on the switching card compares pressure transducer output voltage to the low limit reference voltage (2.6 volts for the compartment control module low limit side) provided by potentiometer R11, resistor R13 and the voltage reference diode VR1 and multiplies the voltage difference by 26 times and provides this as the output voltage at TP-D. The op amp output voltage is at a low power level of only a few milliamps (mA). The transistor Q1 amplifies the power level to about 50 mA while providing no voltage amplification. The power level is further amplified by Q4 of the power card A1. This transistor brings the power level up to about 500 mA to drive the airflow valve motor.



Pressure Control System, Switching and Power Card, Interconnection Schematic

c. Direct current power and ground are provided at output terminals 3 and 4 of the power card to the reversible 28 vdc motor. As the output of Q4 on the power card starts to rise, it provides current via R10 to the base of Q2 on the power card. When this happens, Q2 turns on and provides a ground at terminal 4 of the power card whenever a voltage greater than a few volts is provided at terminal 3 of the power card. The airflow valve motor is connected such that when this happens the airflow valve motor will start and open the valve until the compartment pressure has risen to within the prescribed limits.

d. The description so far has been only for a low pressure condition or low limit side. There is an equivalent high pressure or high limit side circuitry which provides opposite polarity voltage to terminals 3 and 4 of the power card and hence the airflow valve motor. This circuitry consists of U2, Q3 on the switching card, and Q3 and Q1 on the power card. Whenever one pressure side is on, the other side is off. In the dead band (i.e., when the pressure is within the proper limits), both sides are off. The greater the pressure is outside the dead band, the greater the dc voltage to the airflow valve

motor. The voltage increases at the rate of 5.1 volts/.1 in. wg and saturates or reaches a maximum of about 25 volts when the pressure is 0.35 in. wg or more outside of the dead band.

e. The switching card also contains the low pressure alarm circuitry consisting basically of Q2, CR1, VR3, and the voltage divider resistors R8 and R25. This circuit is set to fire when the pressure falls below a preset level, 1.0 in. wg for the compartment control module and 0.33 in. wg for the protective entrance control module. When the pressure reaches the levels described above, the voltage across the four layer diode goes down to about 1 volt and allows base current to flow into the transistor Q2. The transistor is, therefore, "on" and provides a ground at terminal 9 of the switching card. In the system when this ground is provided, the MASK light/horn alarm or PE LOW PRESSURE light comes on. The circuit turns off when the voltage level of the low limit side falls within the proper limits.

f. The circuit consisting of R14, VR2, and Q4 is a series voltage regulator for the op amps and the pressure transducer. The circuit limits the voltage of these components to 28 vdc during high voltage transients.

1-11, LOSS OF POWER/PRESSURE WARNING SYSTEM.

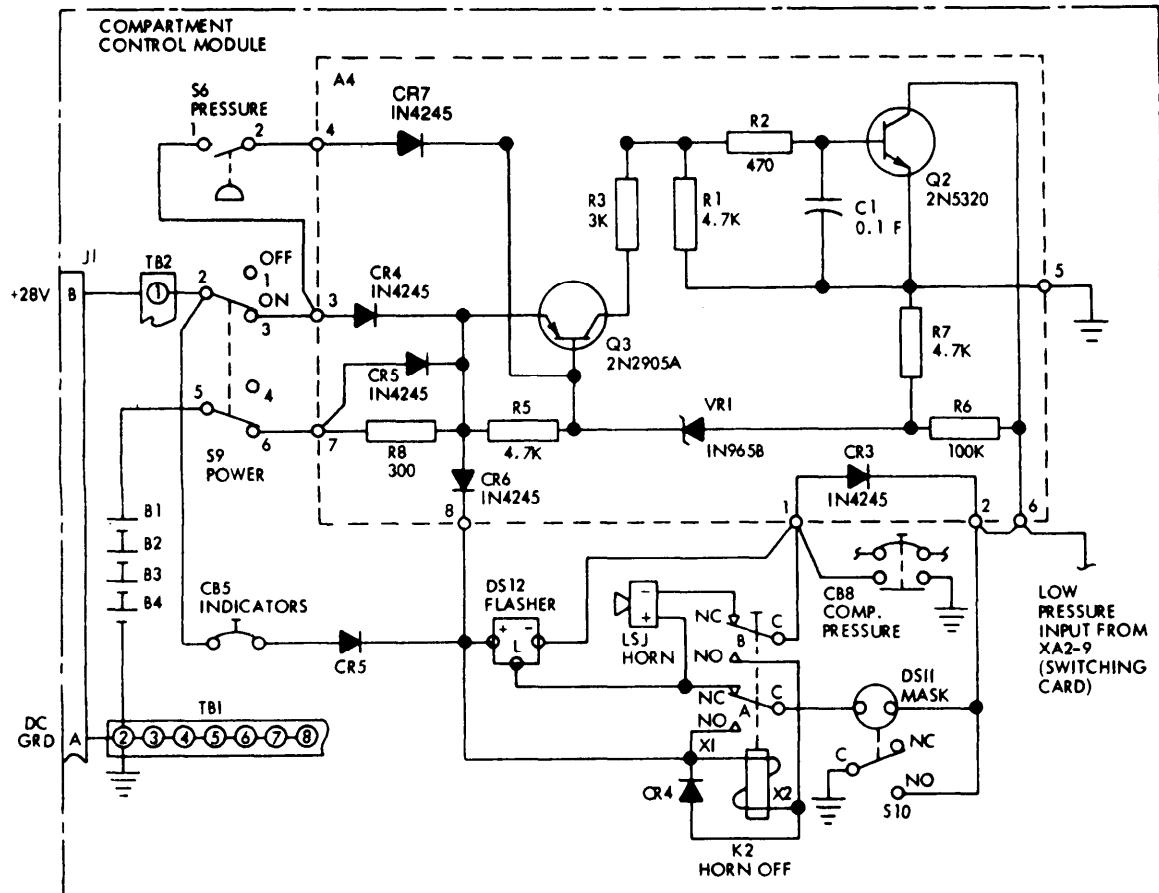
a. The loss of power warning system provides an alarm, mask light and warning horn whenever the power switch on the compartment control module is turned on in the absence of input power to the compartment control module. An alarm is also provided when power is lost during normal operation.

b. When the compartment control module power switch is ON and the power is provided to the modular collective protection equipment, the batteries are charged through normal power distribution in the compartment control module through charging resistor R8. With the compartment control module power switch ON and a loss of power, battery power is provided to the loss of power warning system through terminals 5 and 6 of the compartment control module power switch or terminals 7 of A4 (printed circuit assembly switching auxiliary). Power is provided to the warning devices from terminal 8 of A4. Diodes A4 CR4 and CR5 prevent

power feedback into the rest of the 28 vdc power system. Diode CR3 provides power for the MASK indicator press-to-test. Diode A4 CR6 blocks power to the loss of power warning system when the system is off; however, press-to-test power is being provided through CR5.

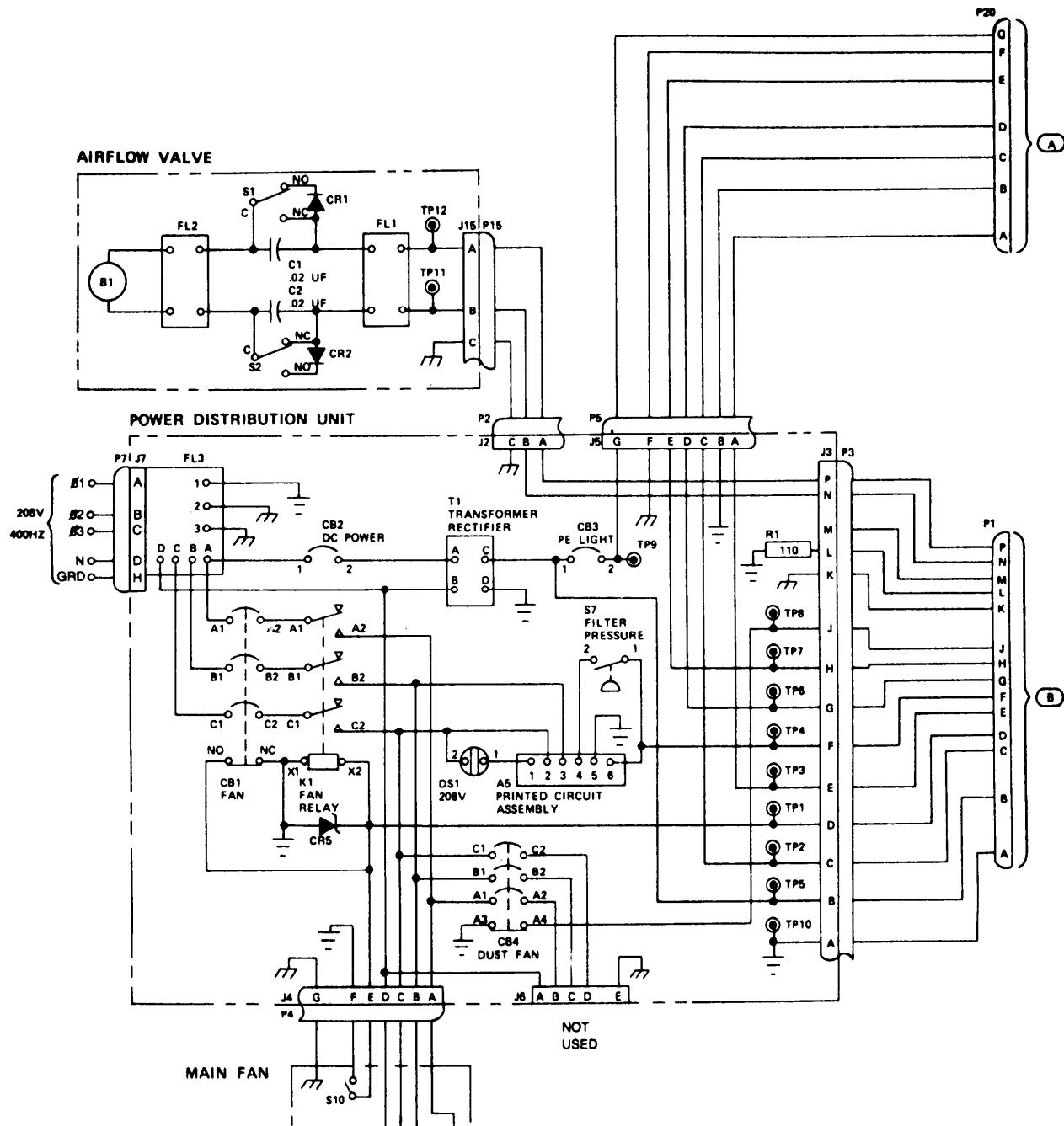
c. During normal operation, 28 vdc power is provided through the closed contacts of pressure switch S6 and diode A4CR7 to keep A4Q3 turned off. Whenever there is a loss of pressure or a loss of power, 28 vdc is removed from the base of A4 Q3 and battery current provided by A4R5, A4VR1, and A4R7 turns A4Q3 on. Current provided by A4 Q3 and A4 R3 is directed to the base of A4 Q2 turning A4 Q2 on. When A4 Q2 is on, a ground is provided at terminals 1, 2, and 6 of A4 which activates the warning circuit.

d. Current will be supplied by A4 Q3 as long as the battery voltage is greater than 16 volts. In the range of 14-16 volts the transistor A4 Q3 will be turned off by A4 VR1 thus removing base drive for A4 Q2 and hence turning off the warning circuit and preventing deep discharge of the batteries.

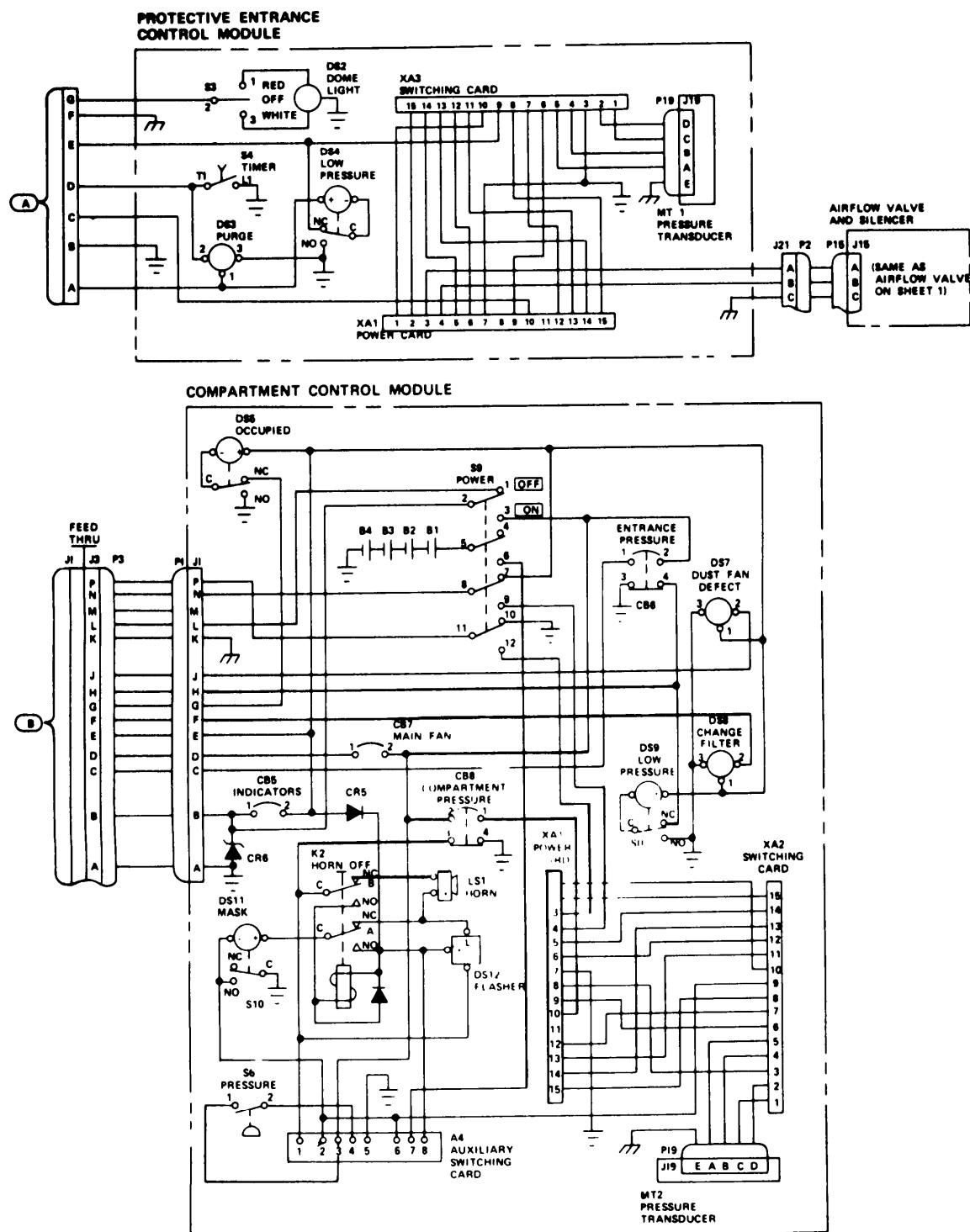


Loss of Power/Pressure Warning System Schematic Diagram

1-12. OVERALL SYSTEM. Refer to system schematic diagram below for component operation with other collective protection equipment.



Collective Protection System Schematic Diagram



Collective Protection System Schematic Diagram (Sheet 2 of 2)

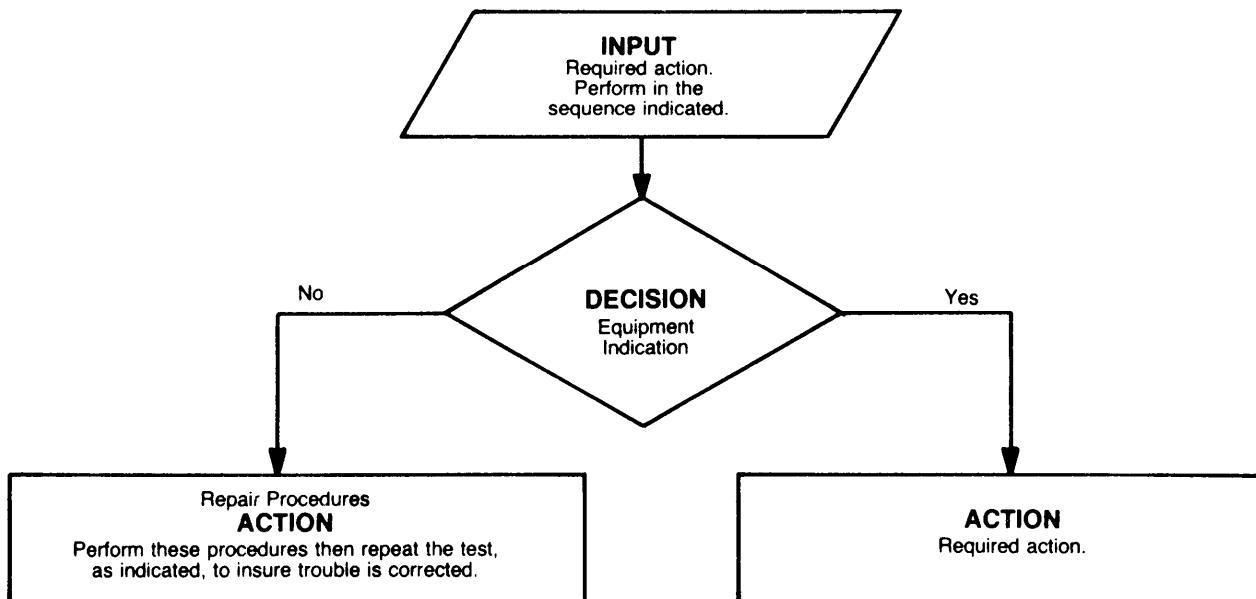
CHAPTER 2 MAINTENANCE INSTRUCTIONS

Section I. TROUBLESHOOTING

2-1. SCOPE. This section provides information for locating and correcting malfunctions in the modular collective protection equipment. Flow charts are used to

isolate malfunctions and prescribe the required corrective action.

2-2. FLOW CHART PROCEDURES. The following describes the use of the troubleshooting charts:

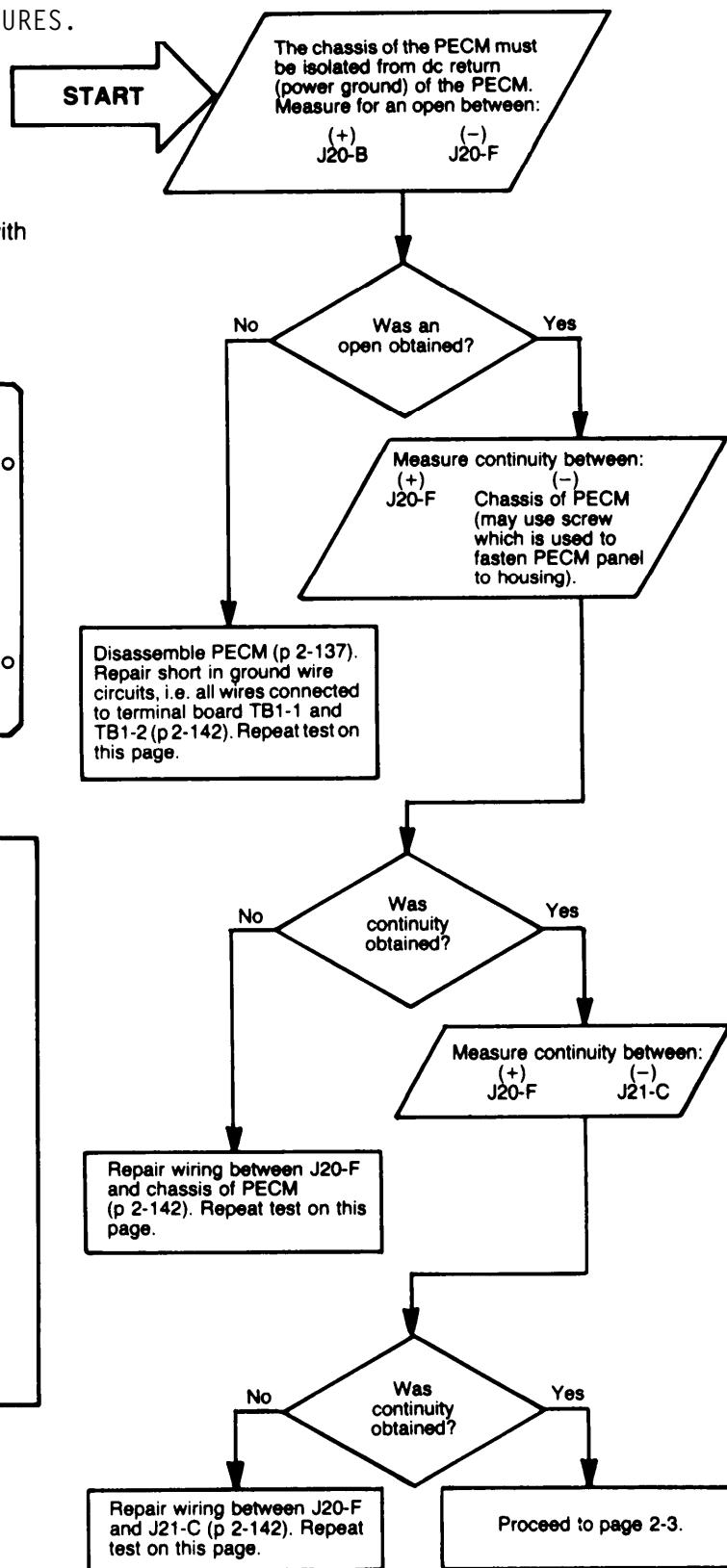
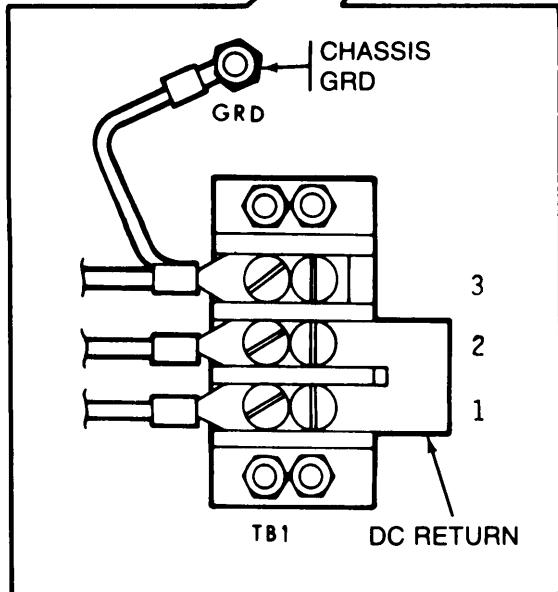
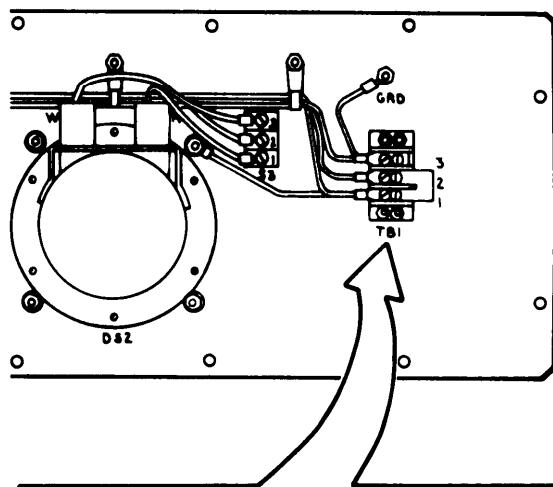


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| PECM | | | | |
| Main Fan | | | | |
| Airflow Valve | | | | |
| Power Distribution Panel | | | | |
| CCM | | | | |
| TEST EQUIPMENT | | | | |
| Multimeter AN/USM223 | | | | |
| Power Supply 6130-00-408-4962 (or equiv) | | | | |
| Differential Pressure Gage 6685-00-087-6331 | | | | |
| Hypodermic Syringe 6515-00-754-0412 | | | | |
| Hose Tee 4730-00-082-5402 | | | | |
| Tubing 4720-00-059-5819 | | | | |
| Resistor (680 OHM, 2W) 5905-00-256-0390 | | | | |
| Resistor (100 OHM, 10W) 5905-00-752-6460 | | | | |
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| ● | ● | ● | ● | ● |
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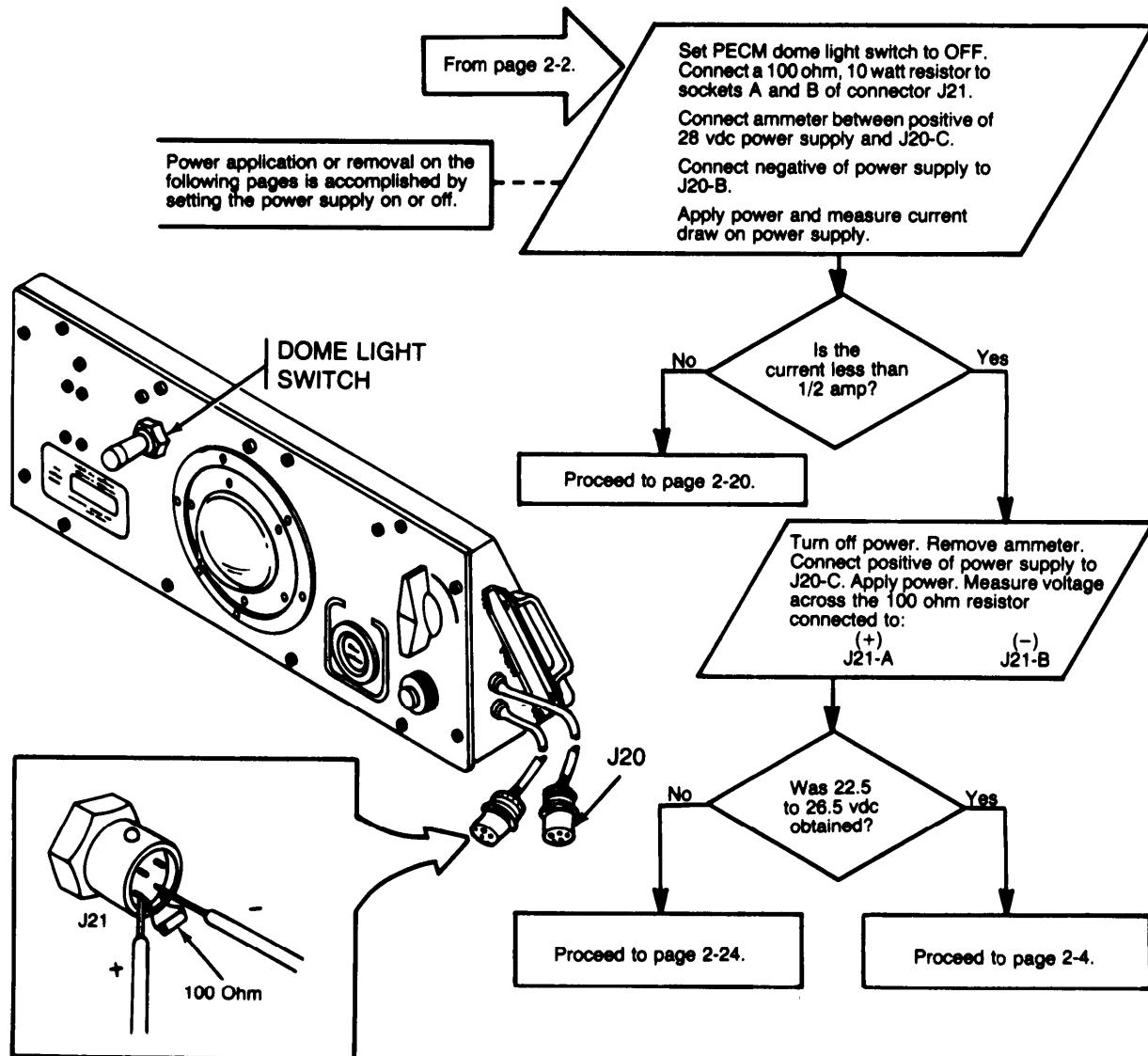
2-3. PECM TROUBLESHOOTING PROCEDURES.

NOTE

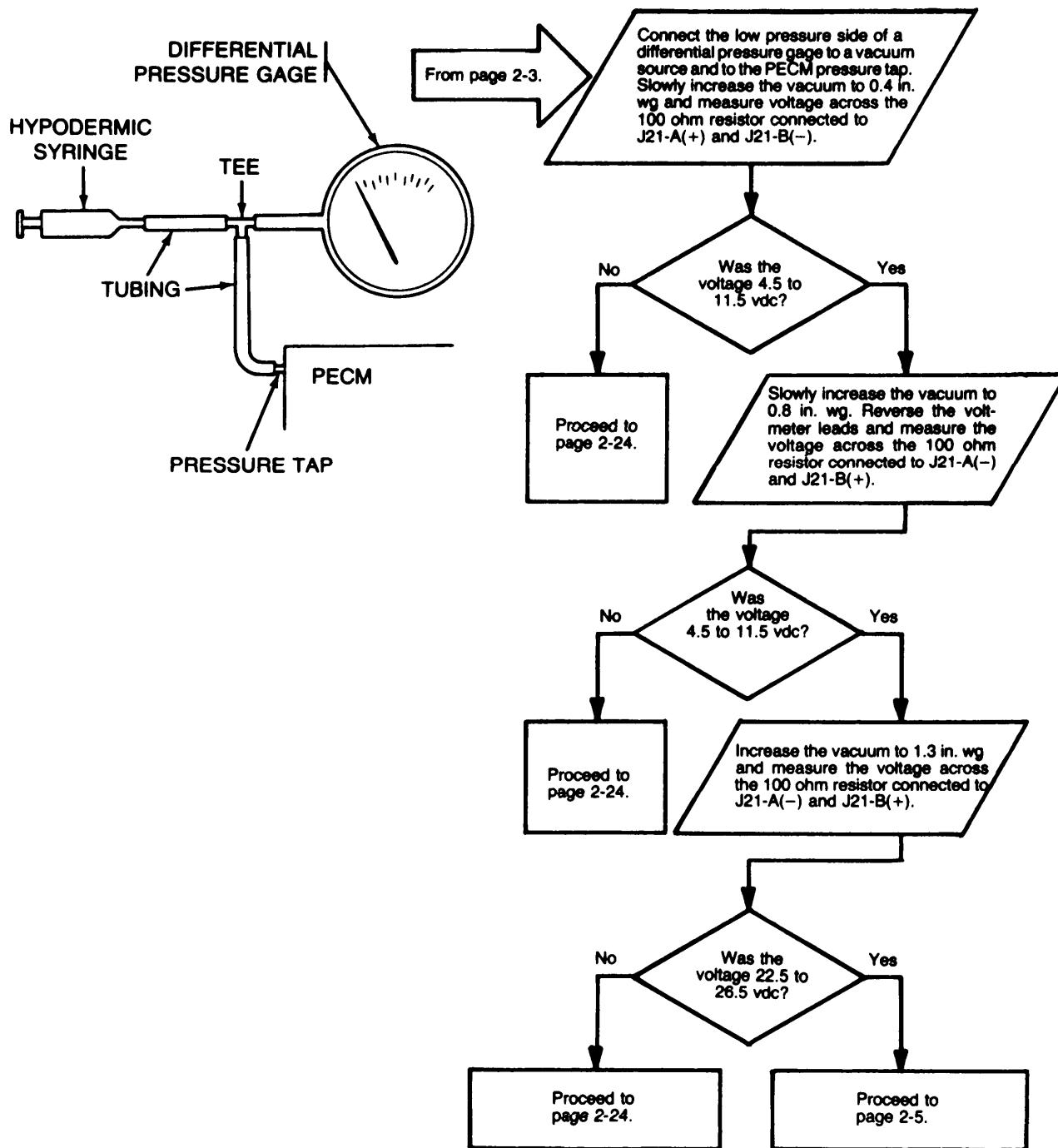
All voltages are dc and are measured with respect to dc return (TB1-1) unless otherwise specified.



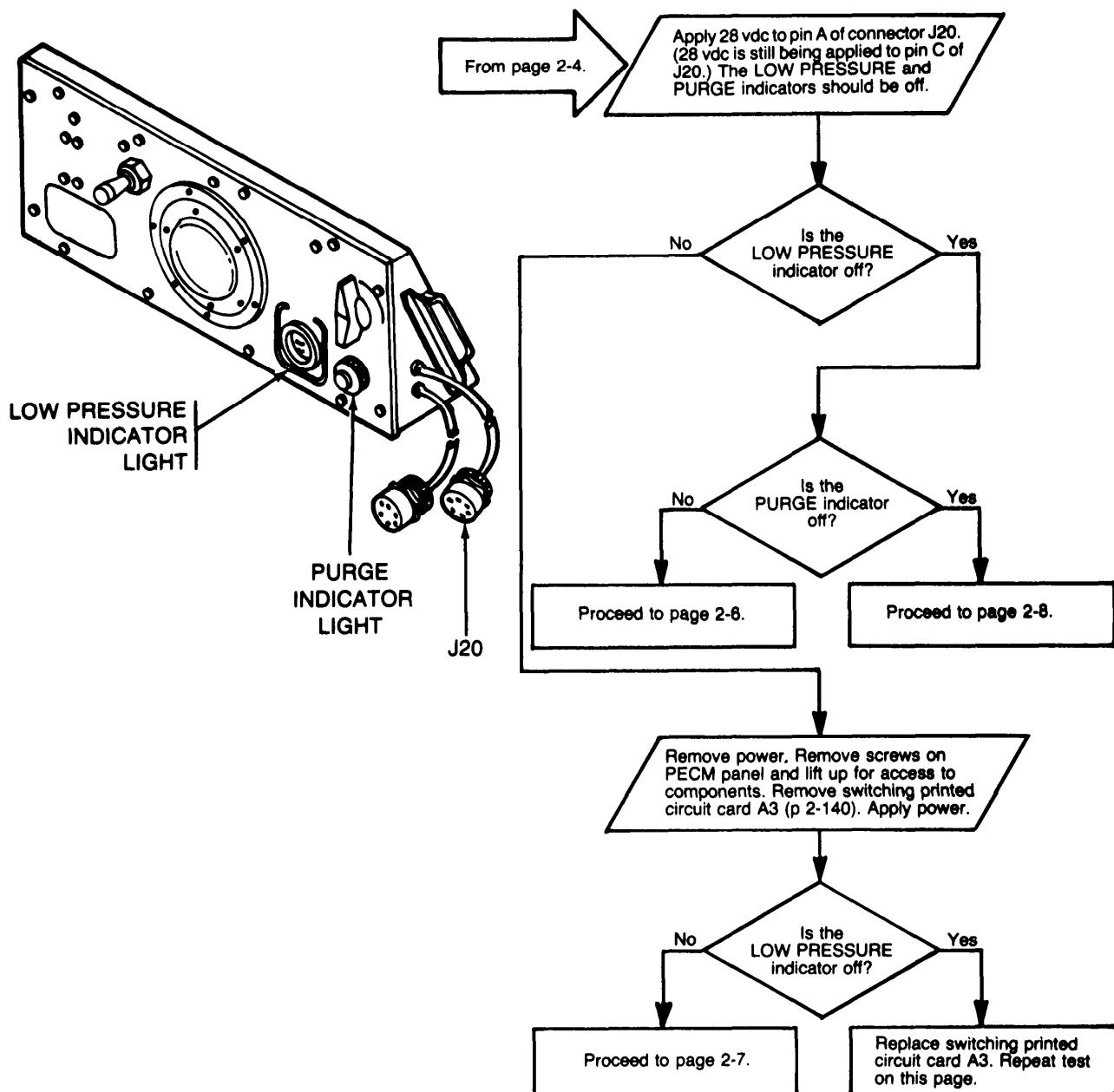
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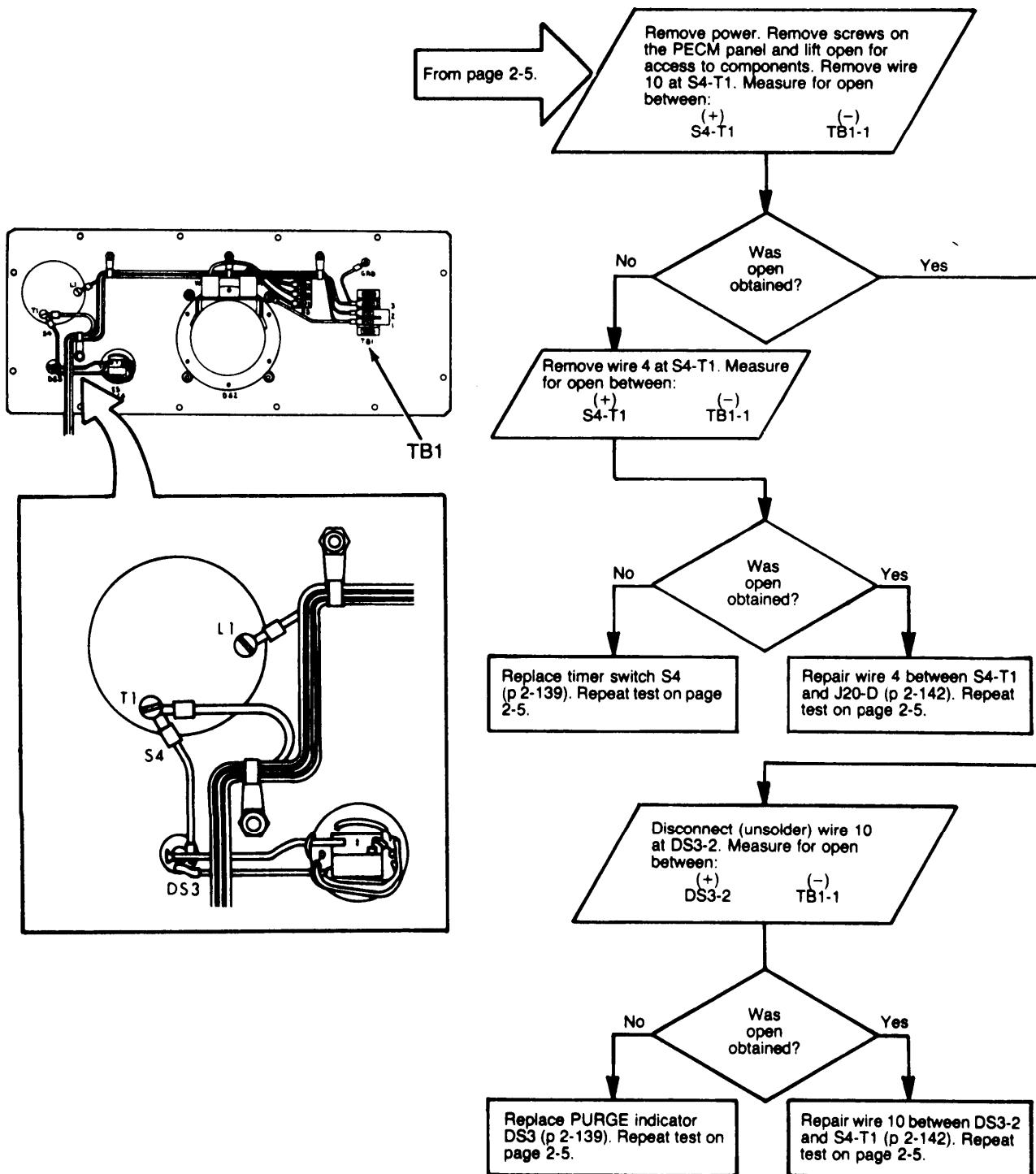
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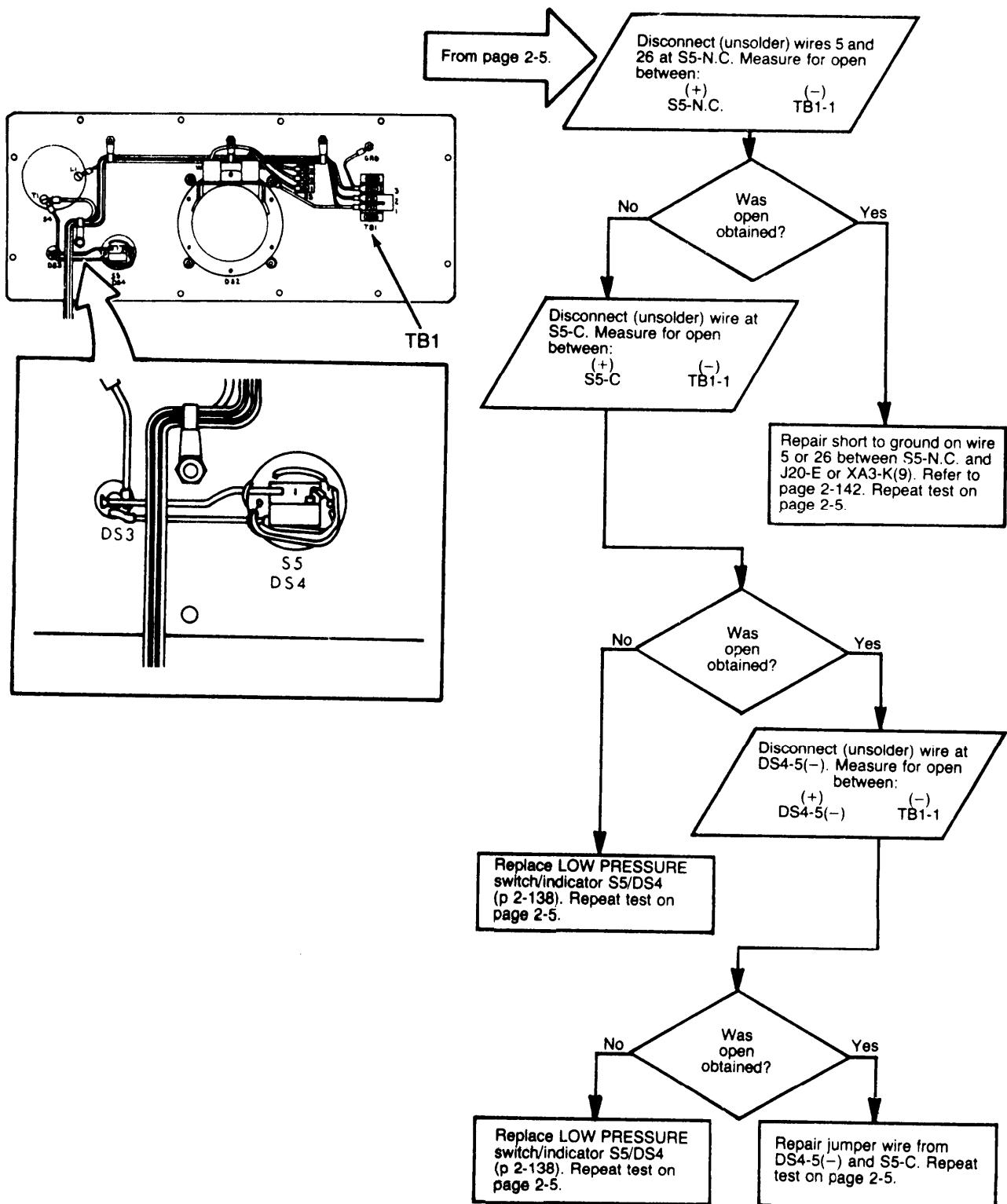
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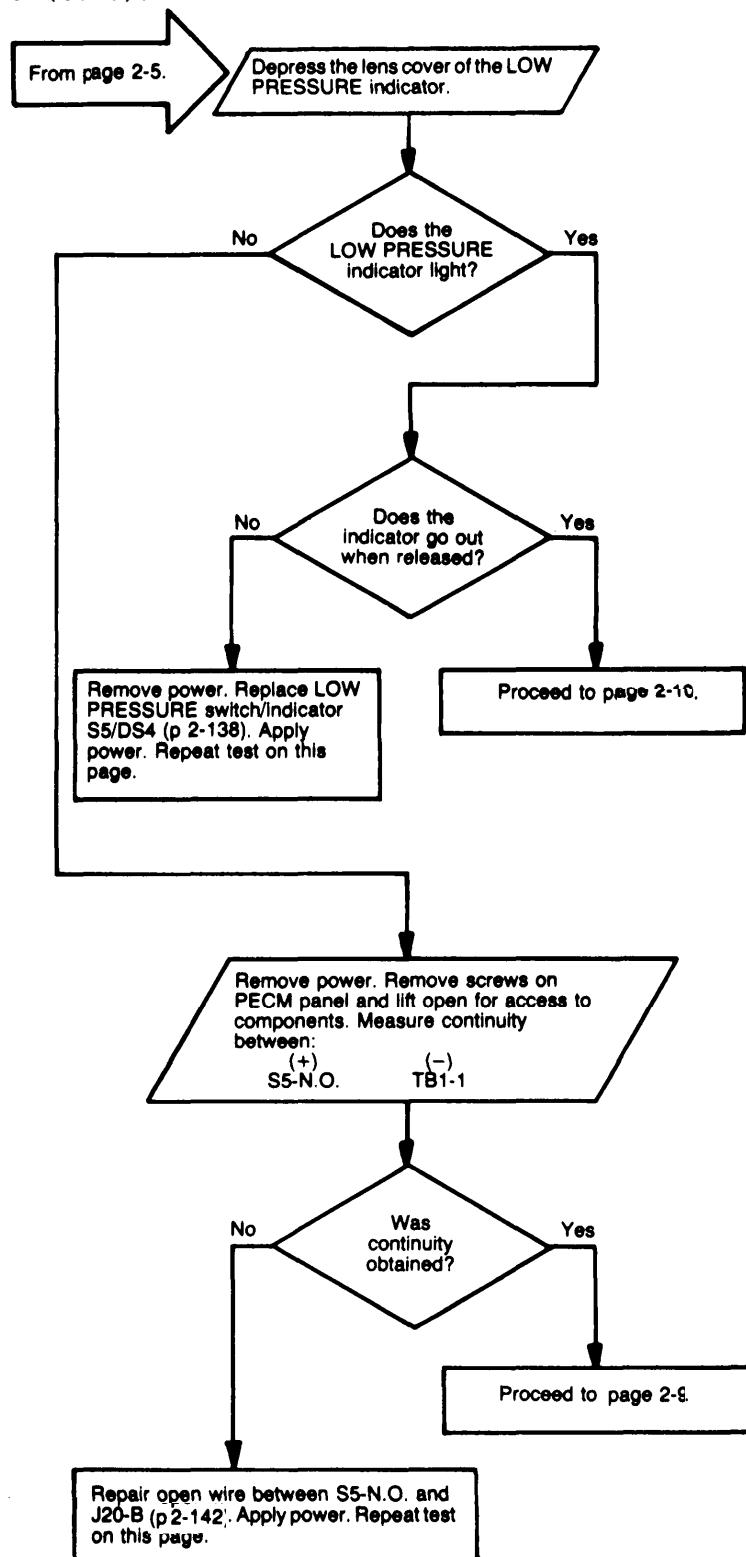
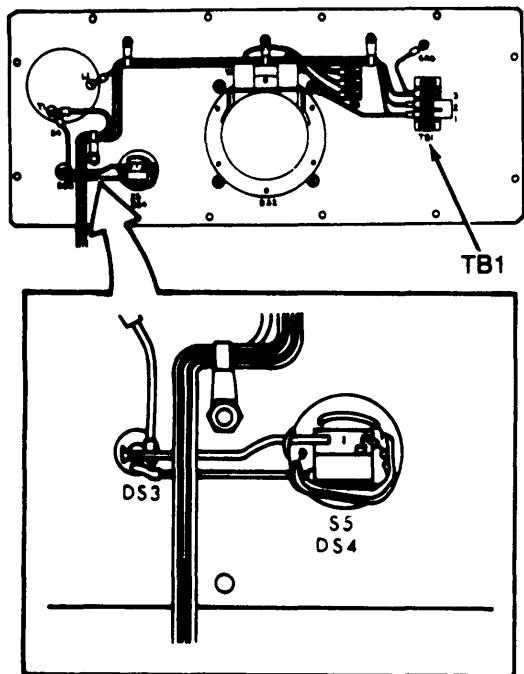
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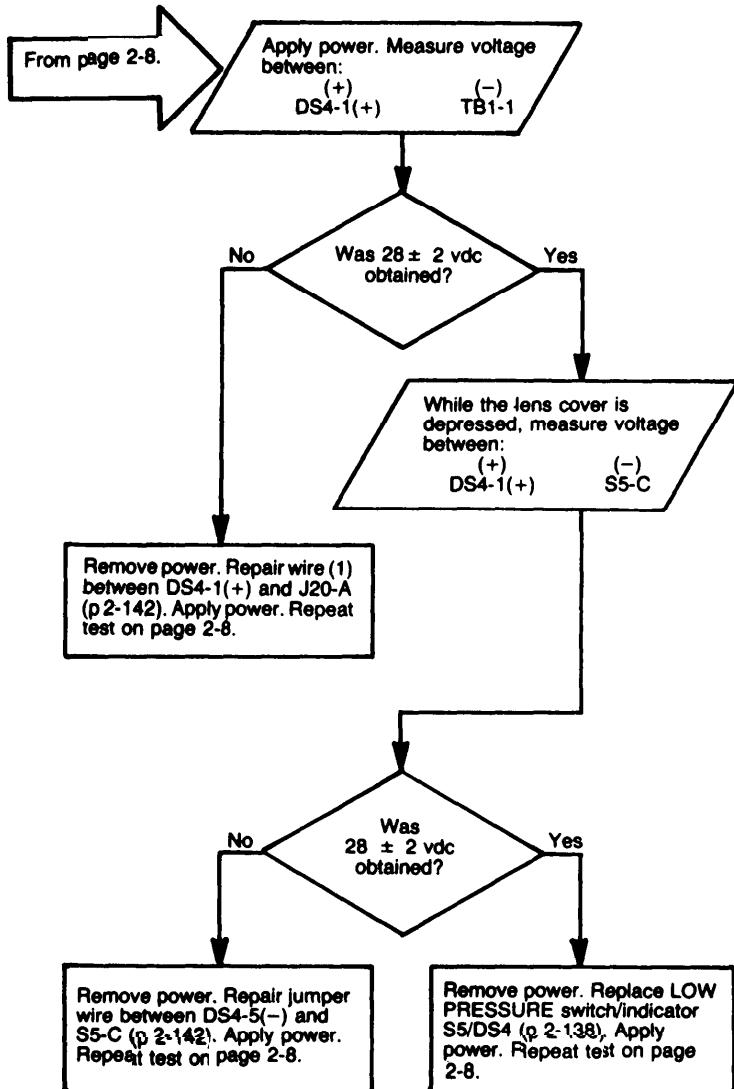
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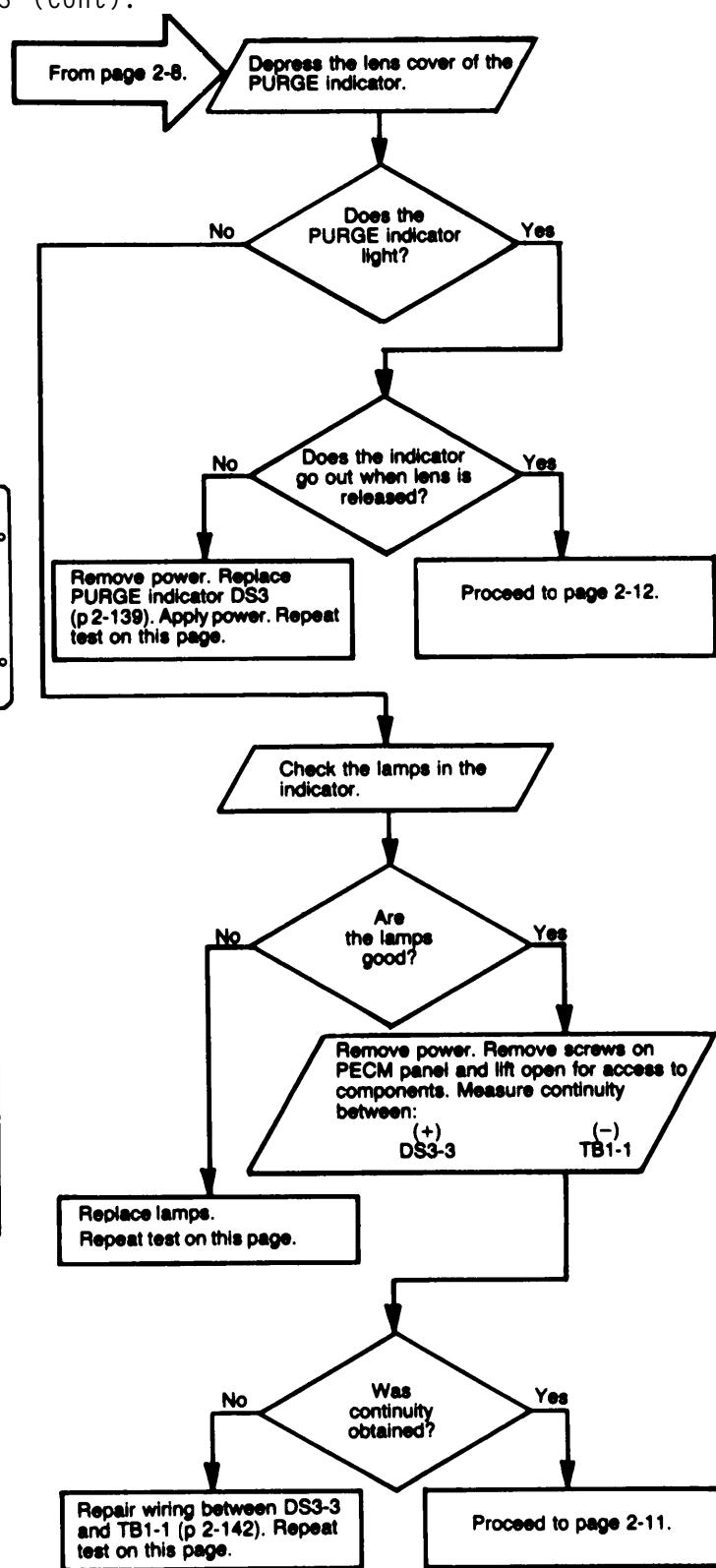
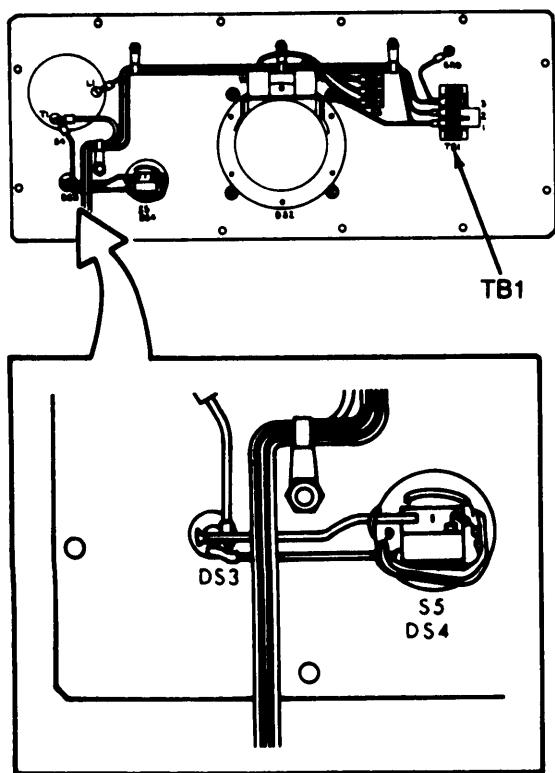
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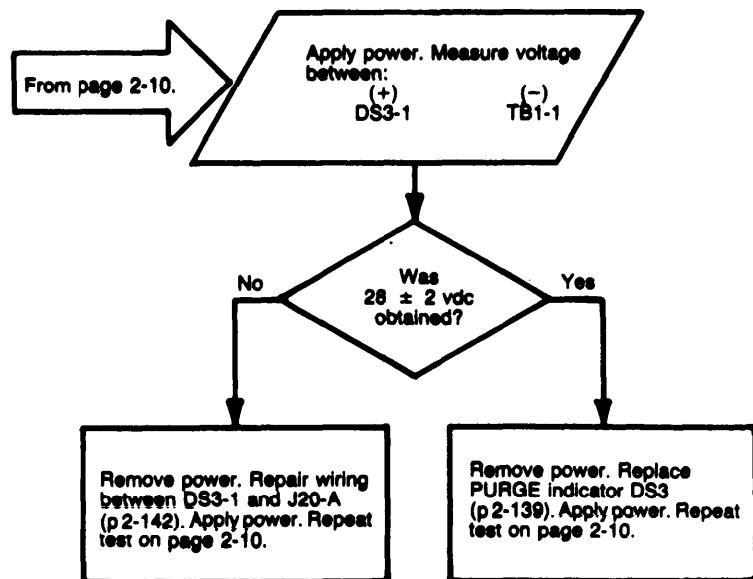
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



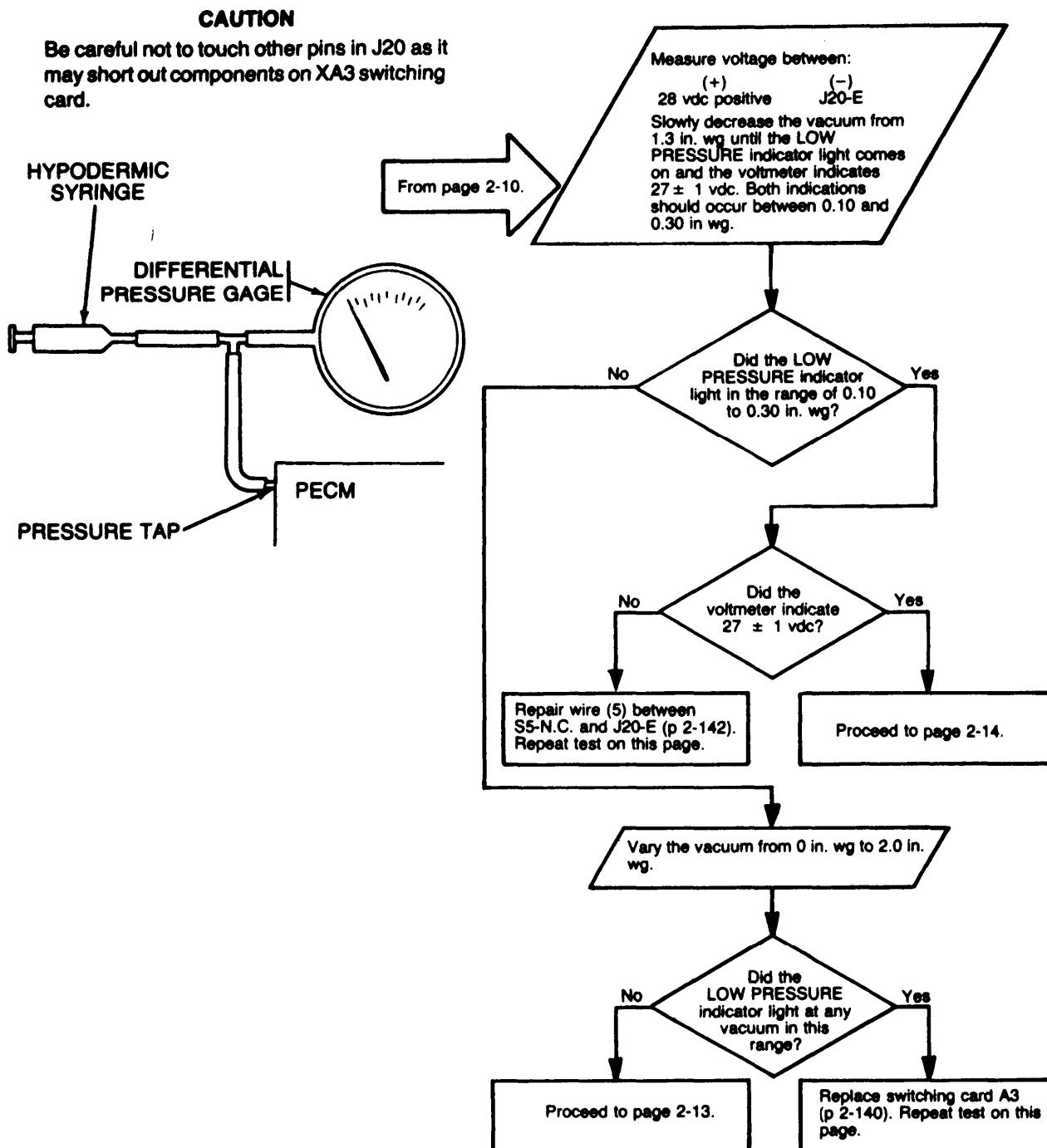
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



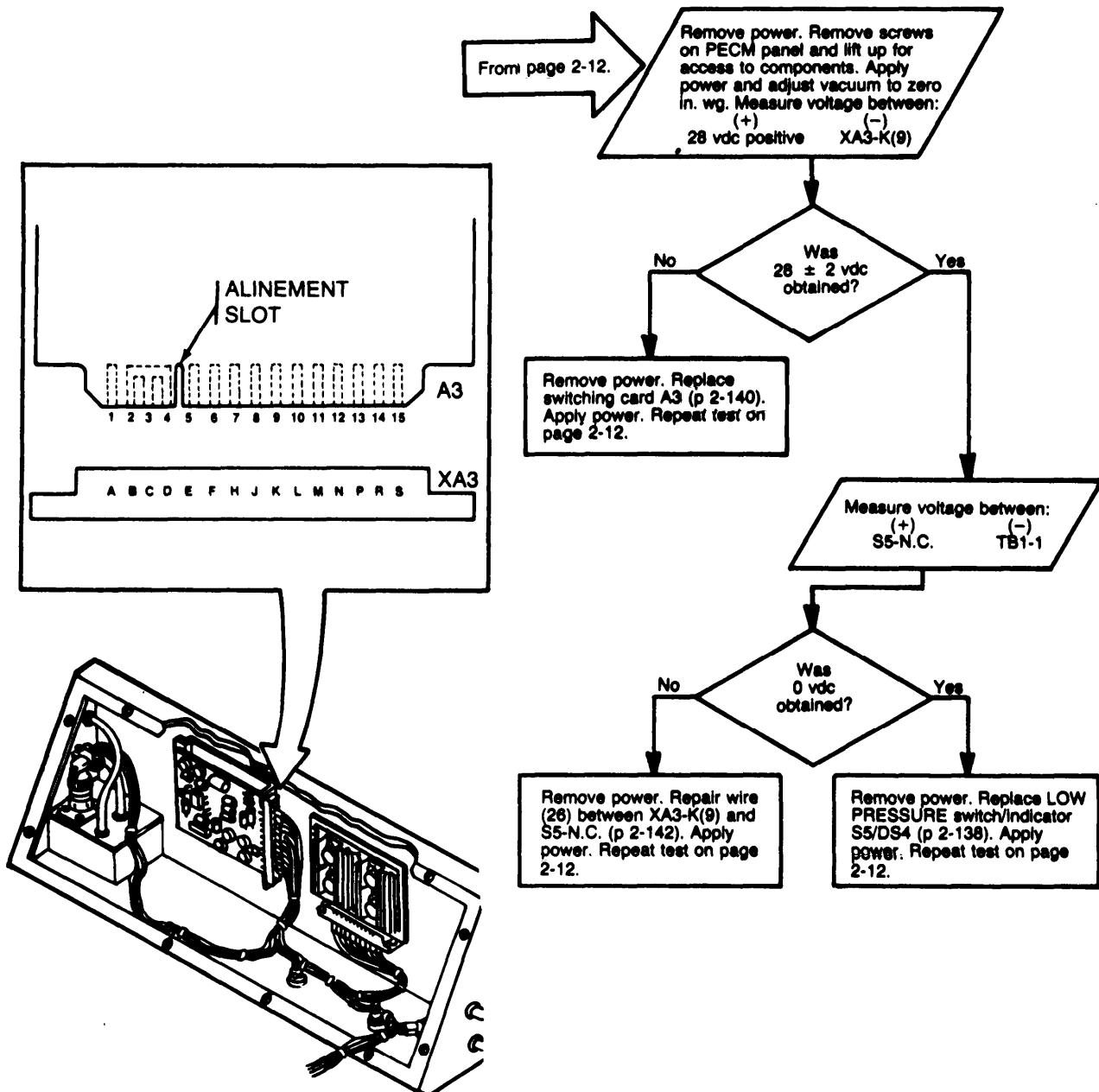
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont)



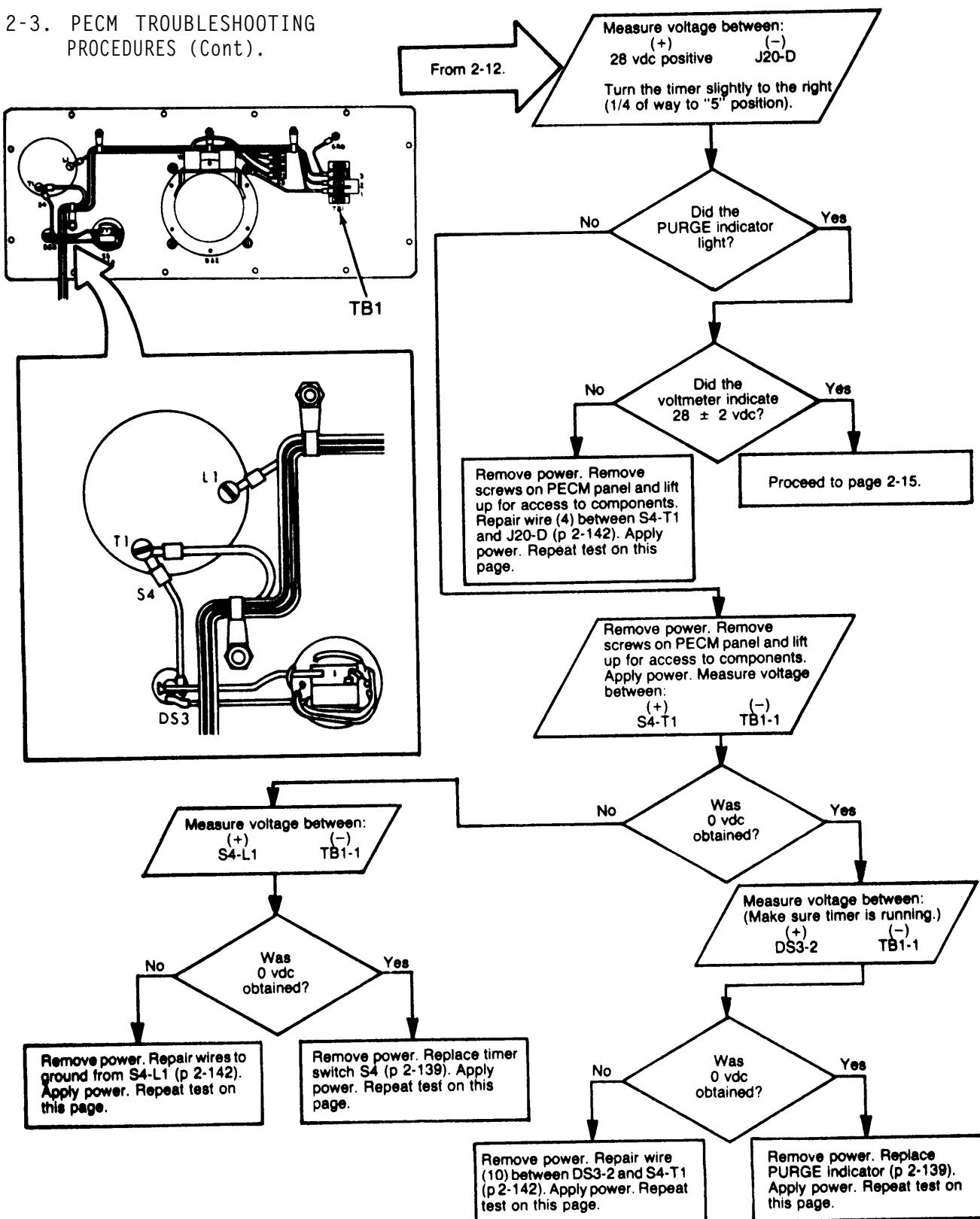
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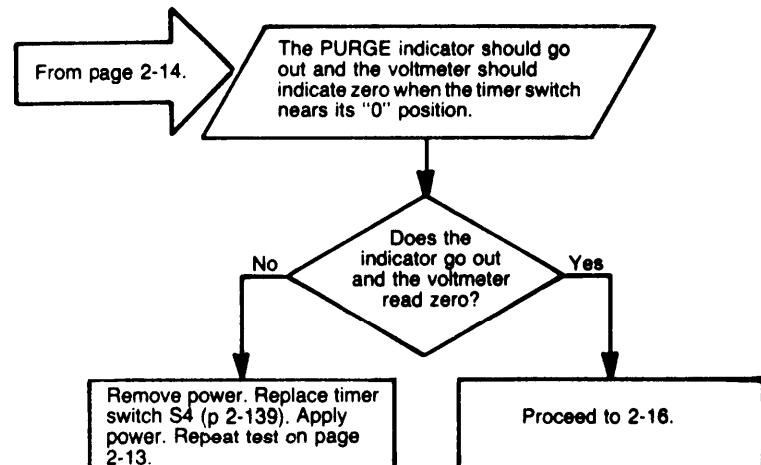
2-3 PECM TROUBLESHOOTING PROCEDURES (Cont.).



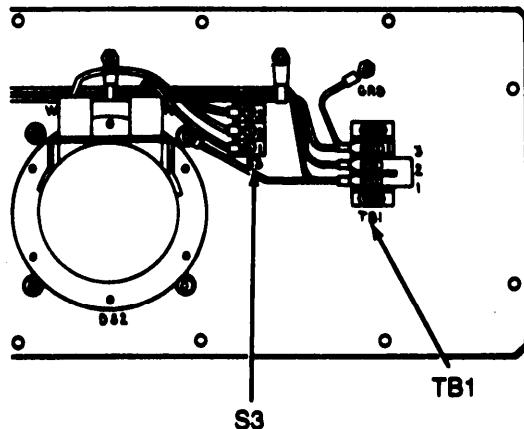
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



2-3. PECM TROUBLESHOOTING PROCEDURES



2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



From page 2-15.

Apply 28 vdc to J20 as follows:
 J20-G : Positive
 J20-B : Negative

The dome light switch should be in the OFF position.

Is the dome light off?

Remove power. Replace switch S3 (p 2-138). Apply power. Repeat test on this page.

Switch the dome light switch to the RED position.

Does the red light come on?

Switch the dome light switch to the WHITE position.

Does the white light come on?

Proceed to page 2-19.

This completes the checkout of the PECM. Remove power and vacuum connections.

Remove power. Remove screws on PECM panel and lift up for access to components. Apply power. Measure voltage between:

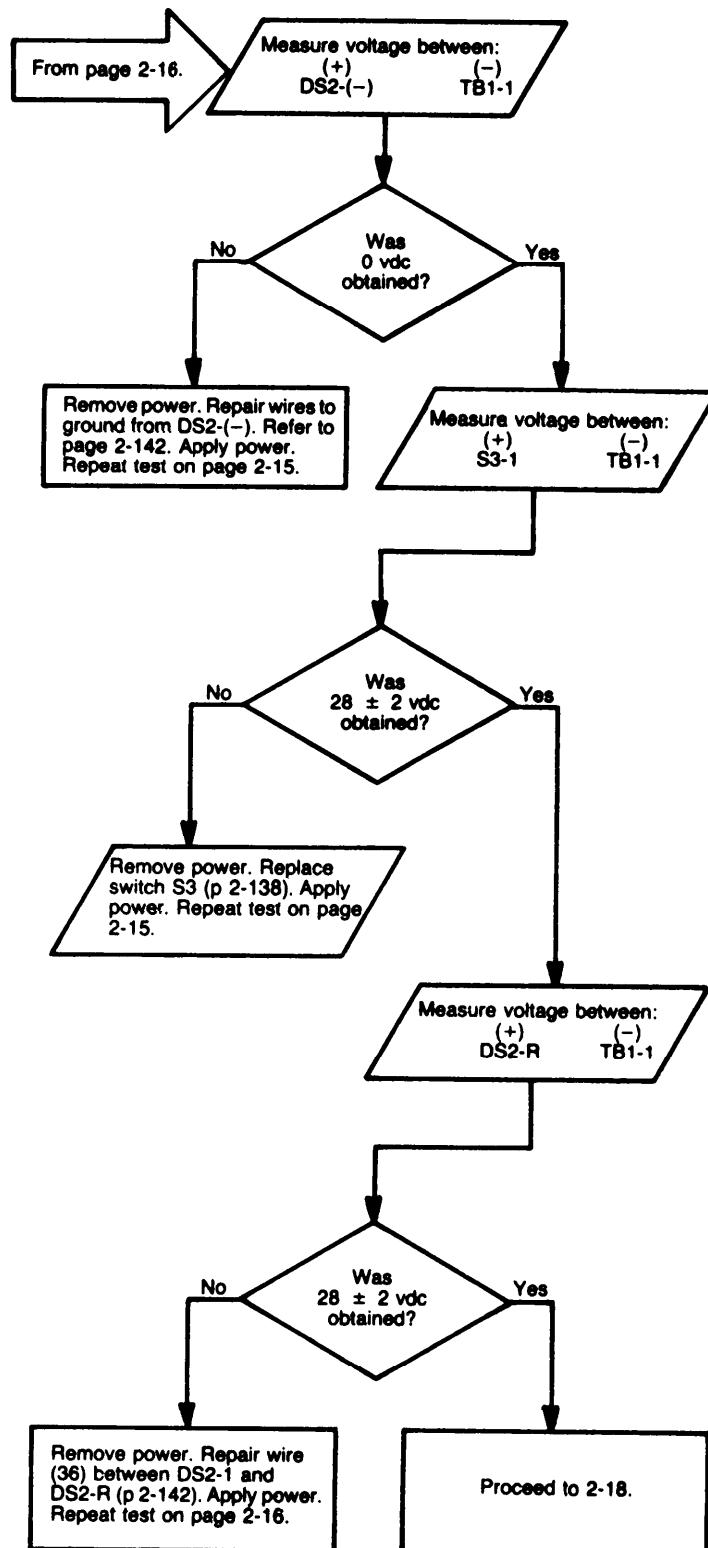
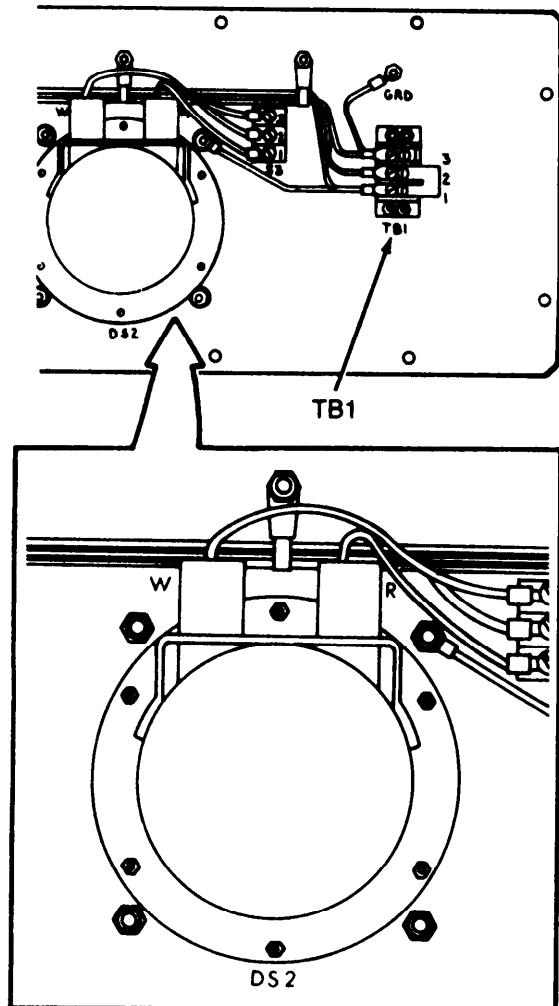
(+) S3-2 (-) TB1-1

Was 28 ± 2 vdc obtained?

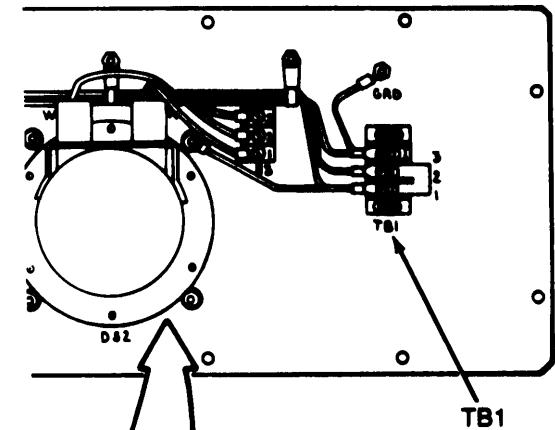
Remove power. Repair wire (7) from J20-G to S3-2 (p 2-142). Apply power. Repeat test on this page.

Proceed to page 2-17.

2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



2-3. PECM TROUBLESHOOTING PROCEDURES



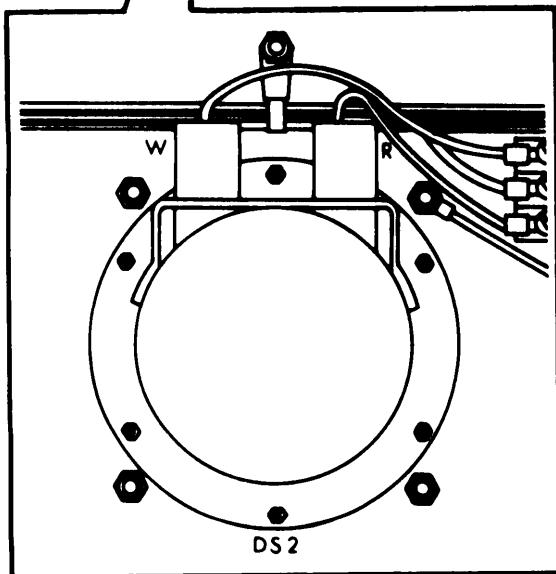
From page 2-17.

Remove power. Remove lens on dome light DS2. Check the red and white lamps. The lamps may be tested by directly applying 28 vdc.

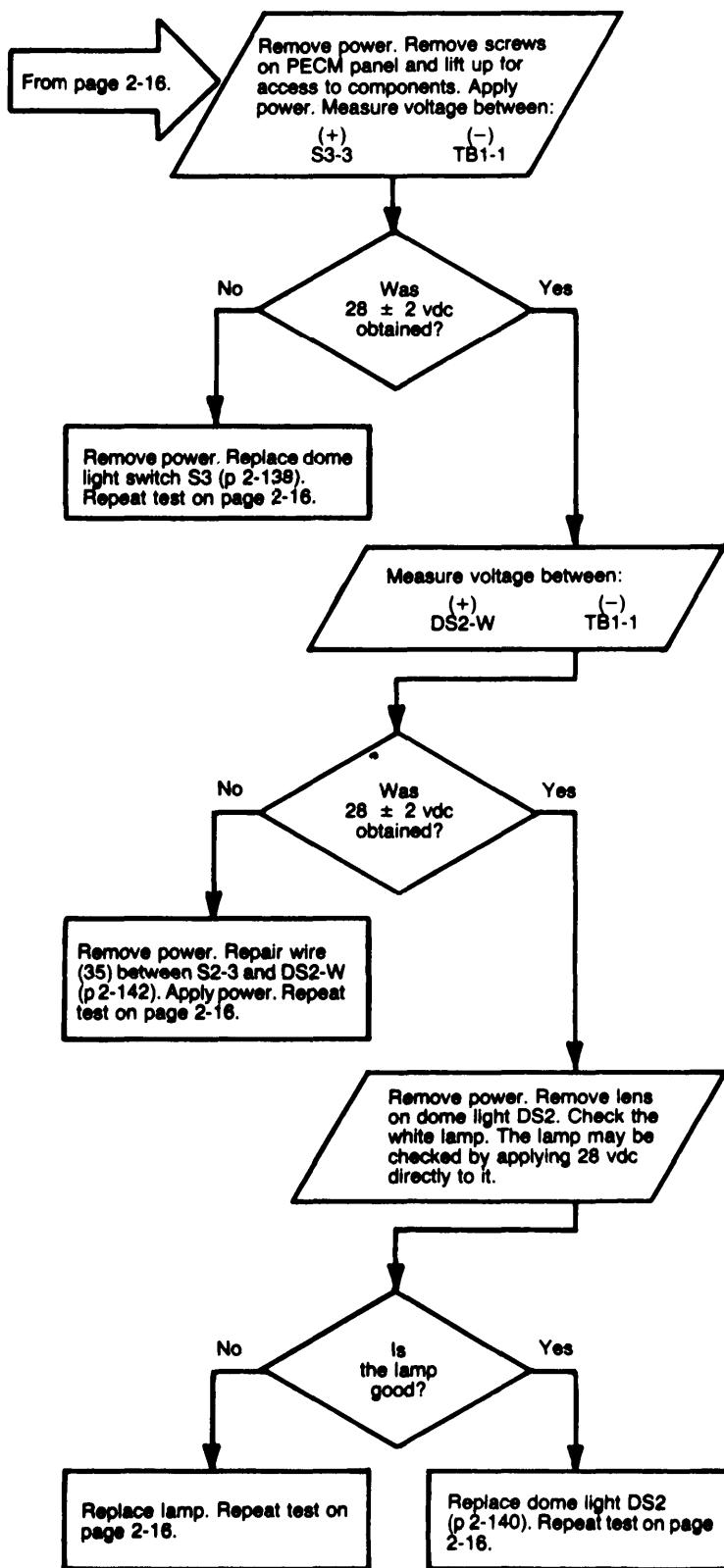


Replace lamps. Repeat test on page 2-16.

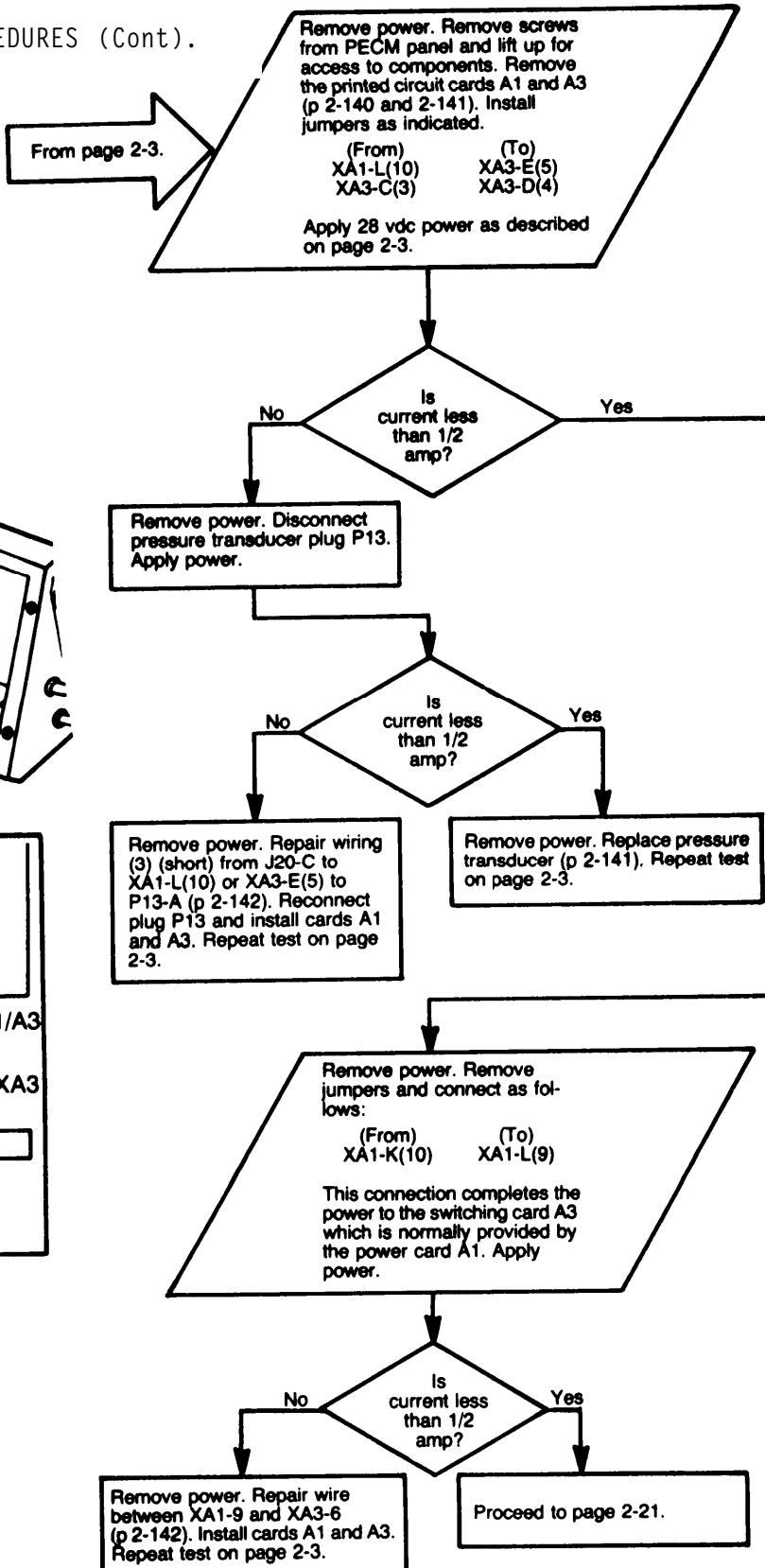
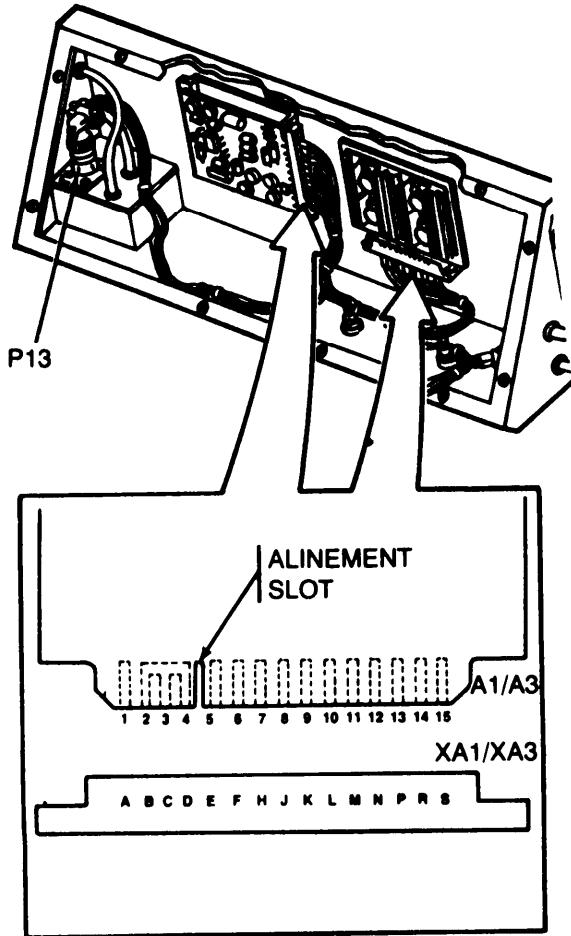
Replace dome light DS2 (p 2-140). Repeat test on page 2-16.



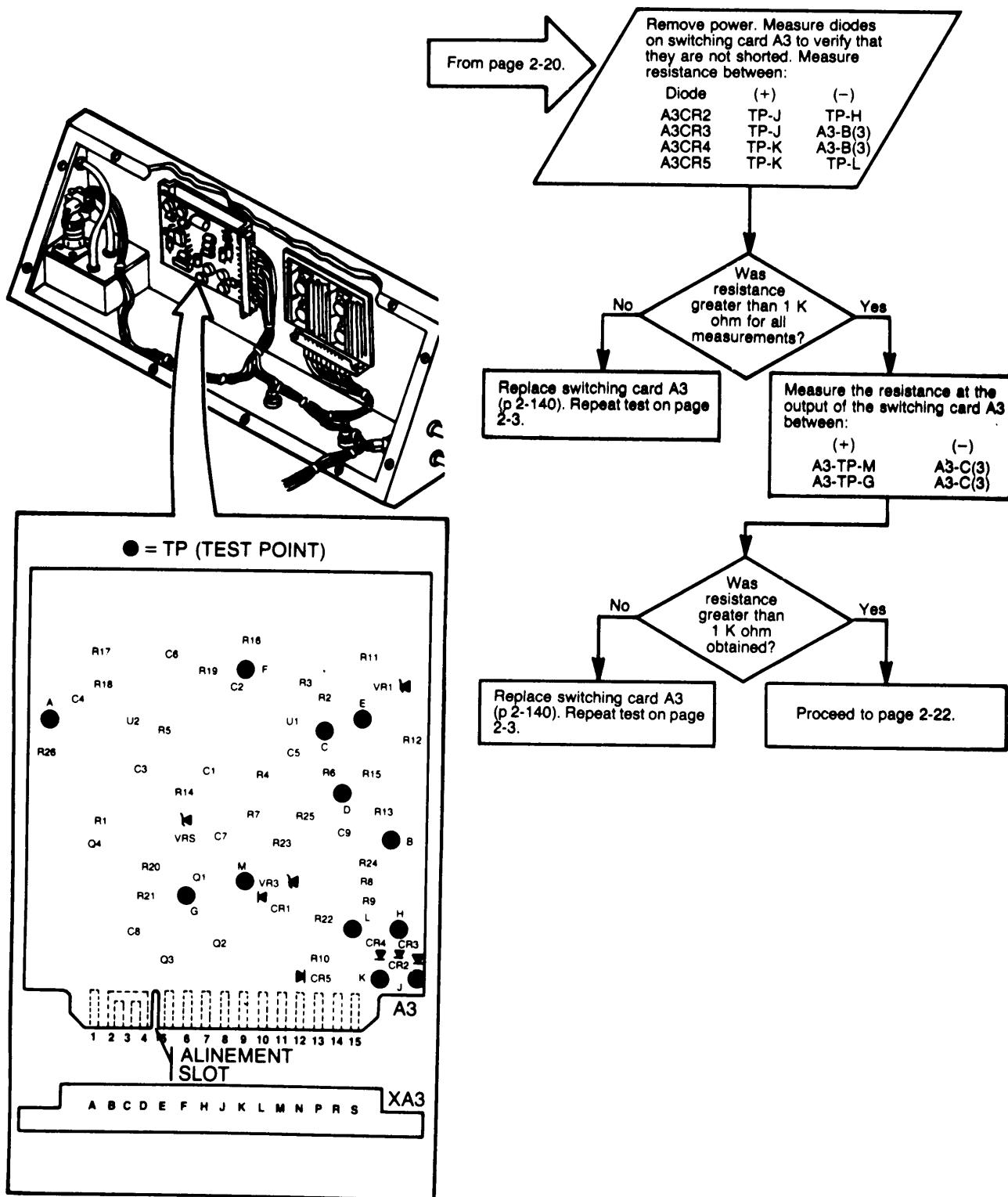
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



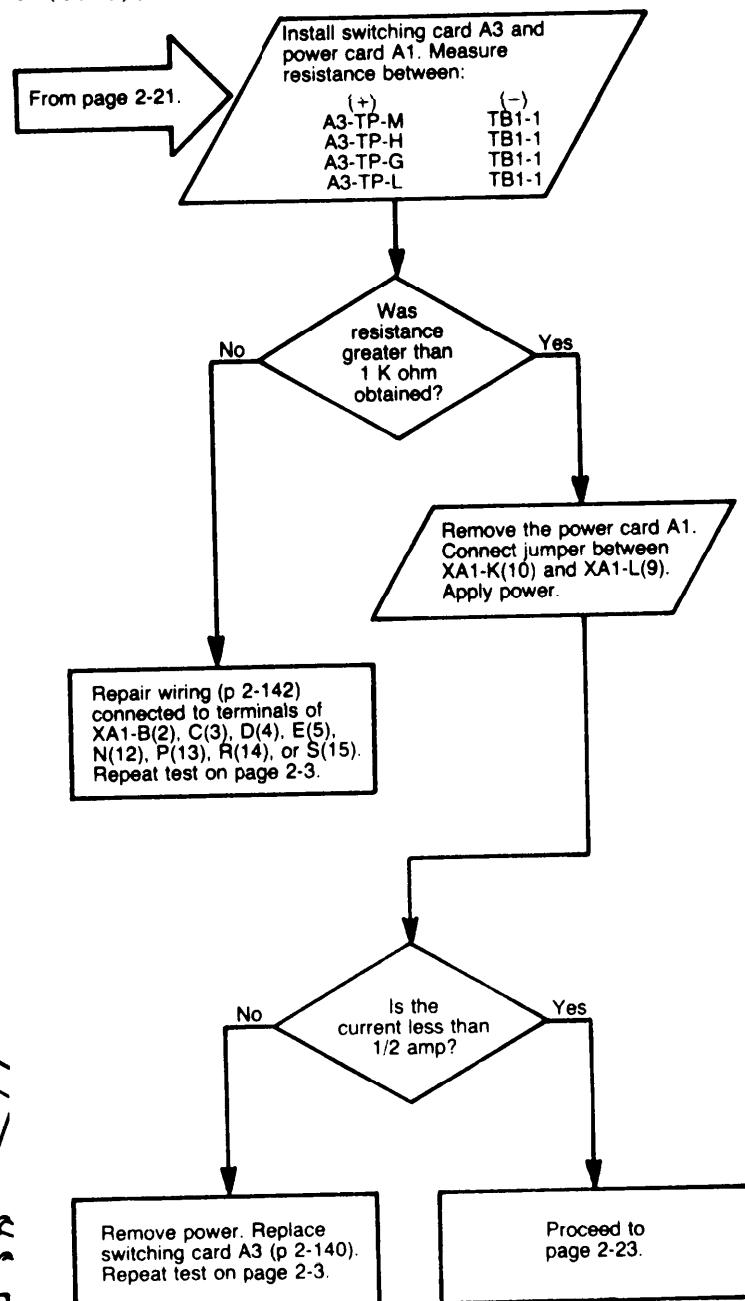
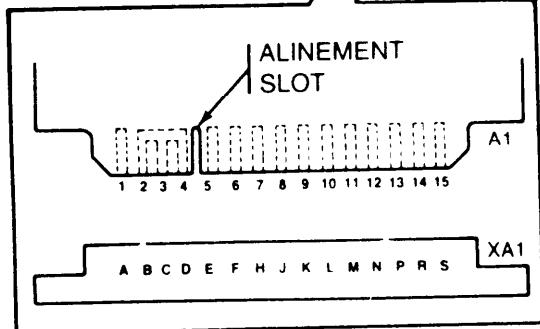
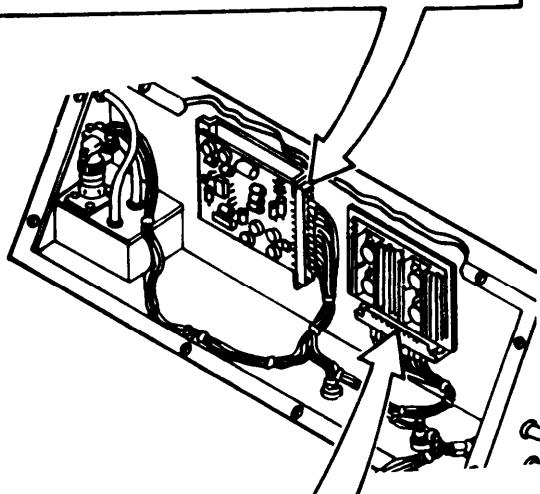
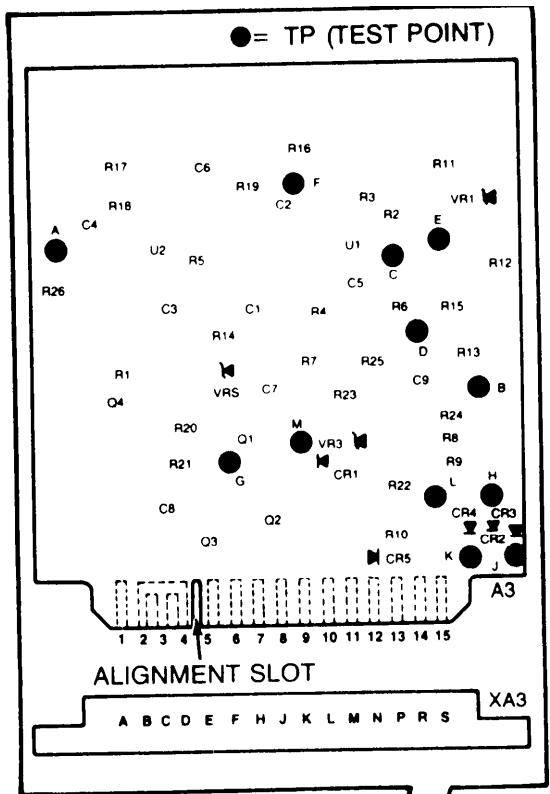
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



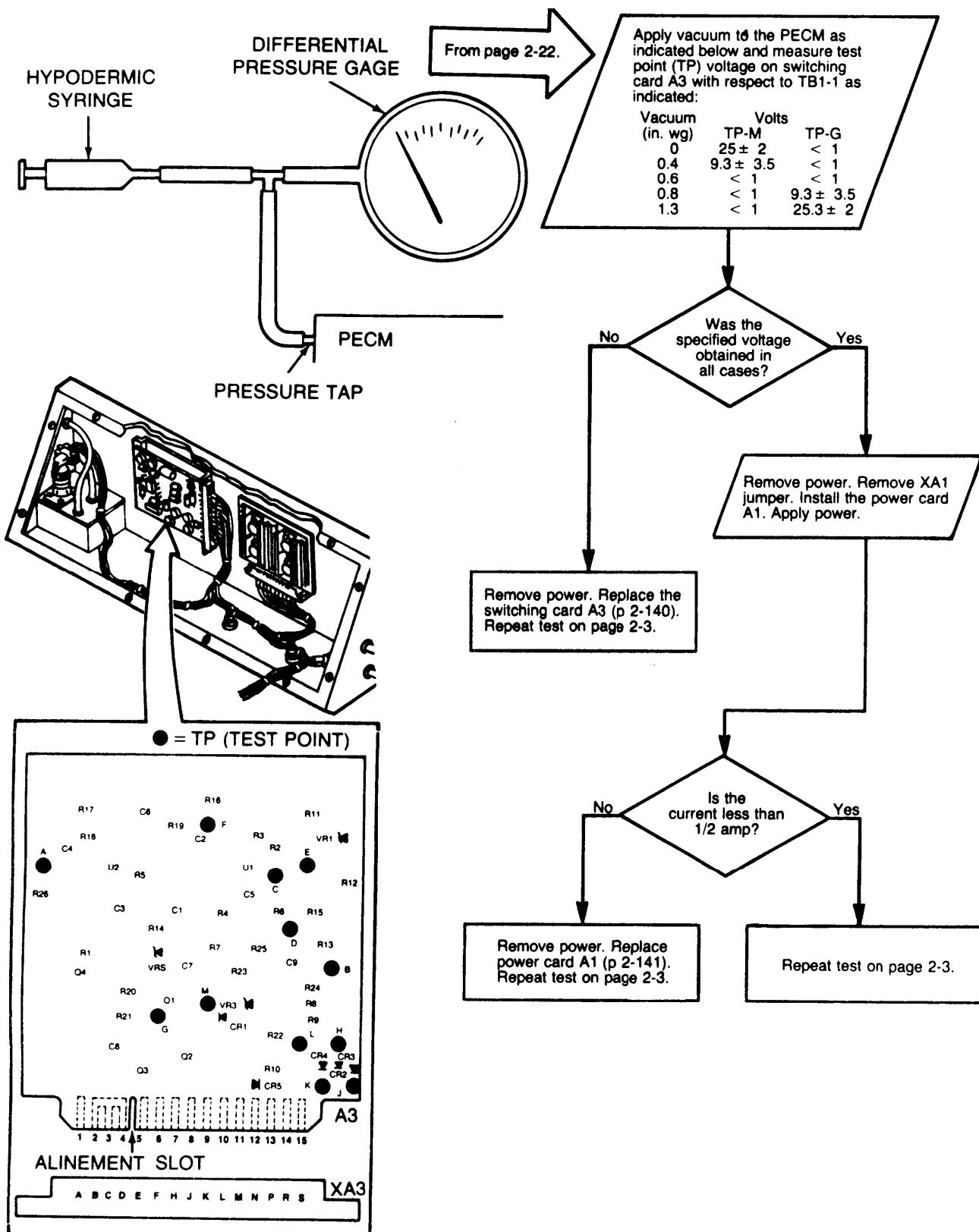
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



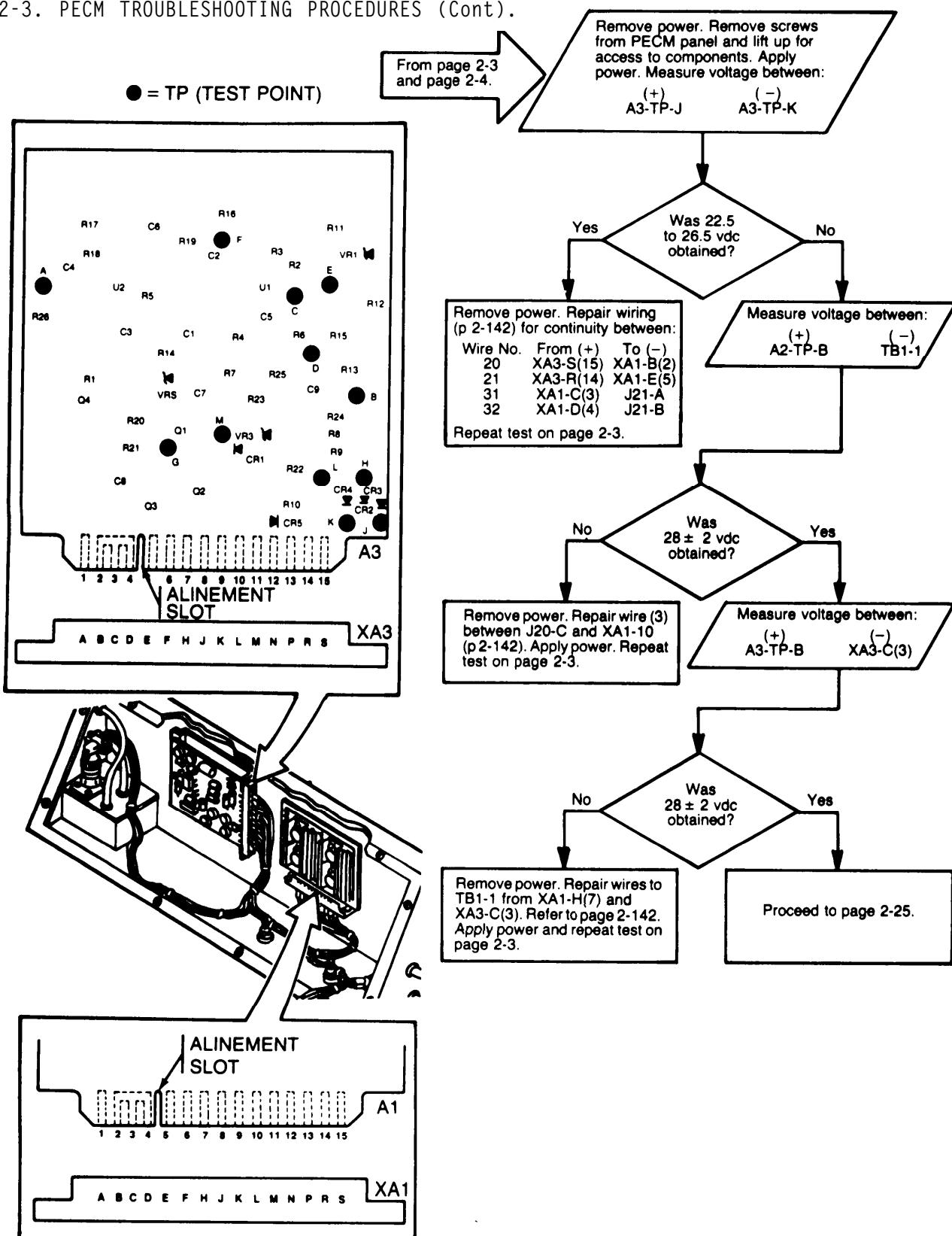
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



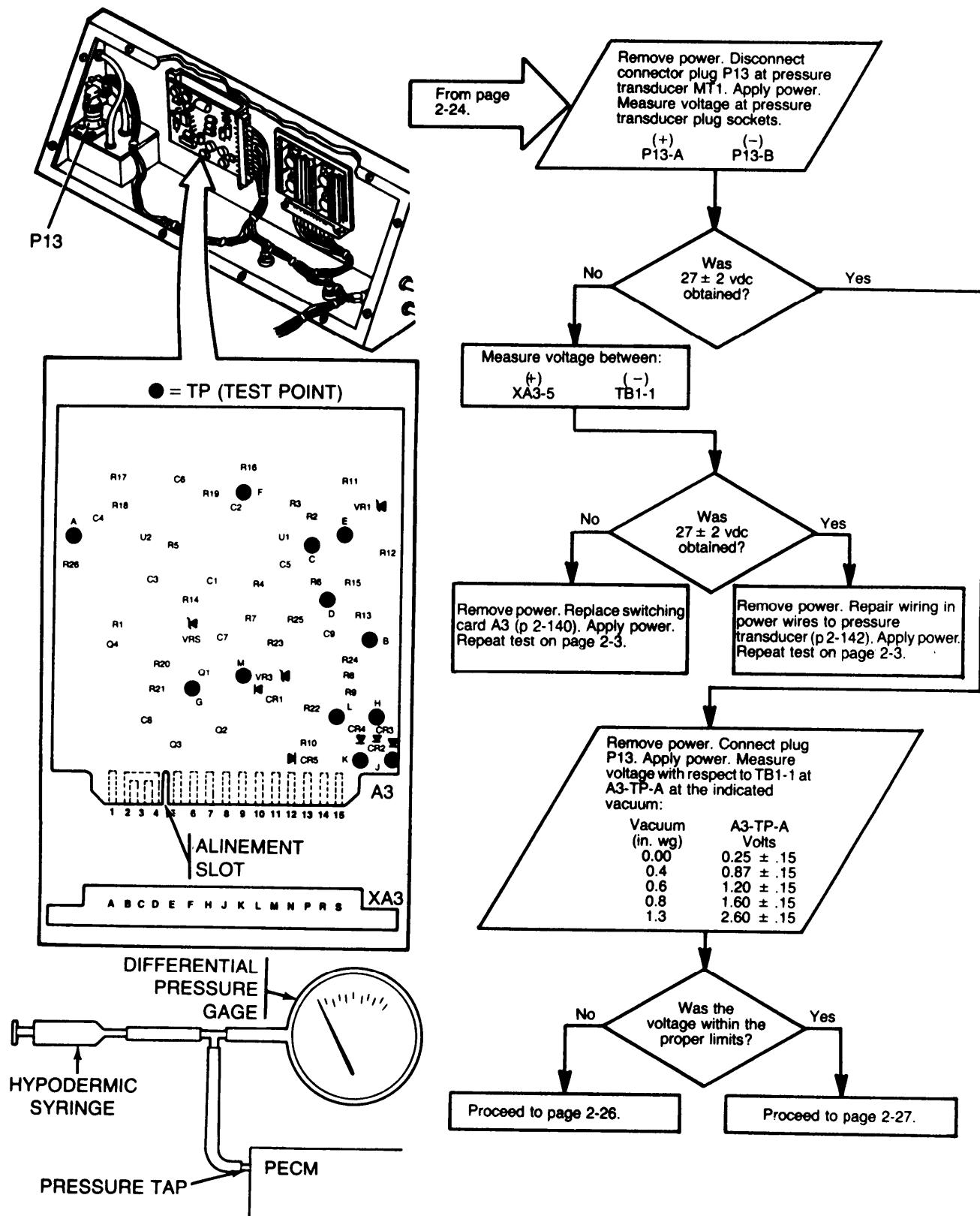
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



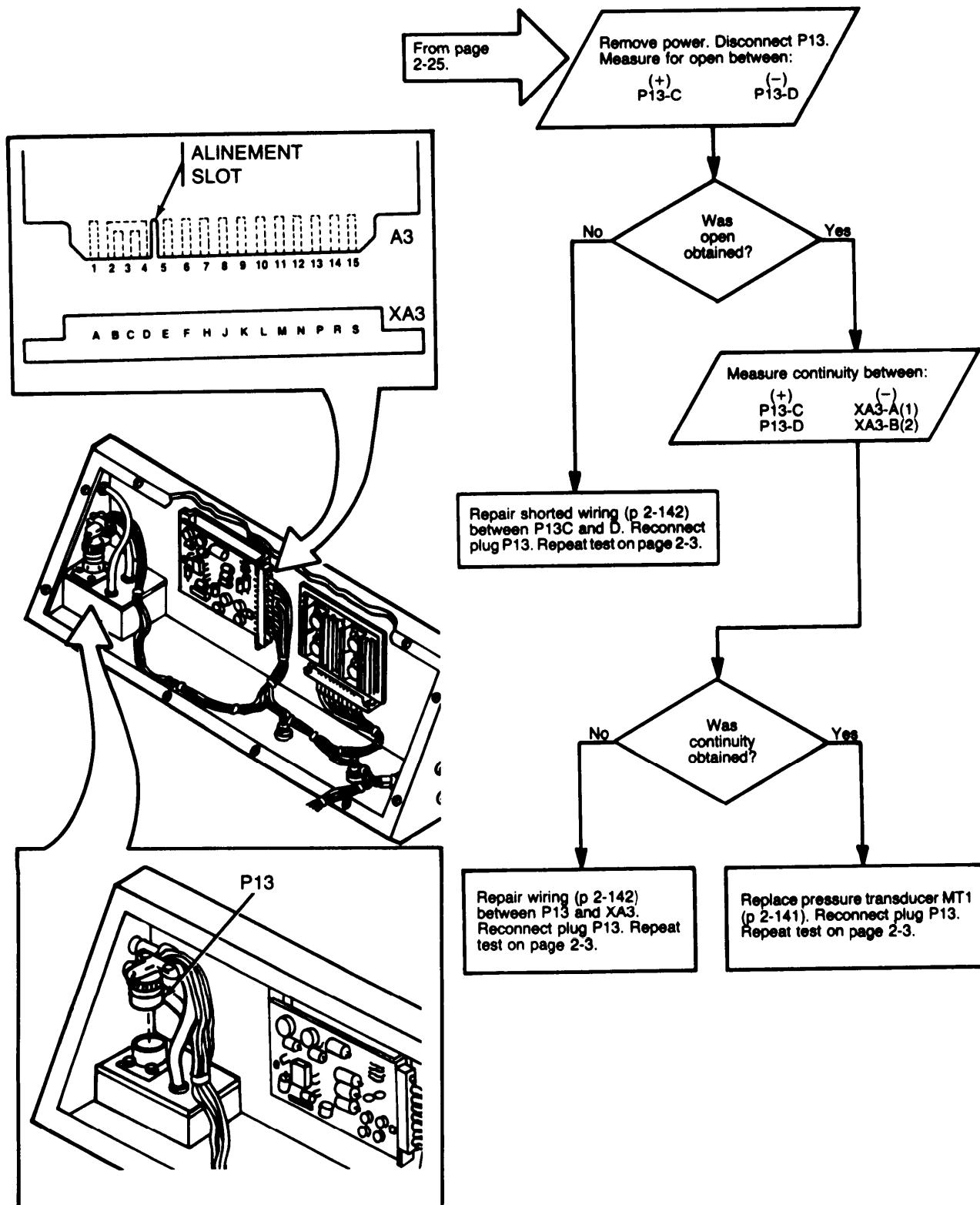
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



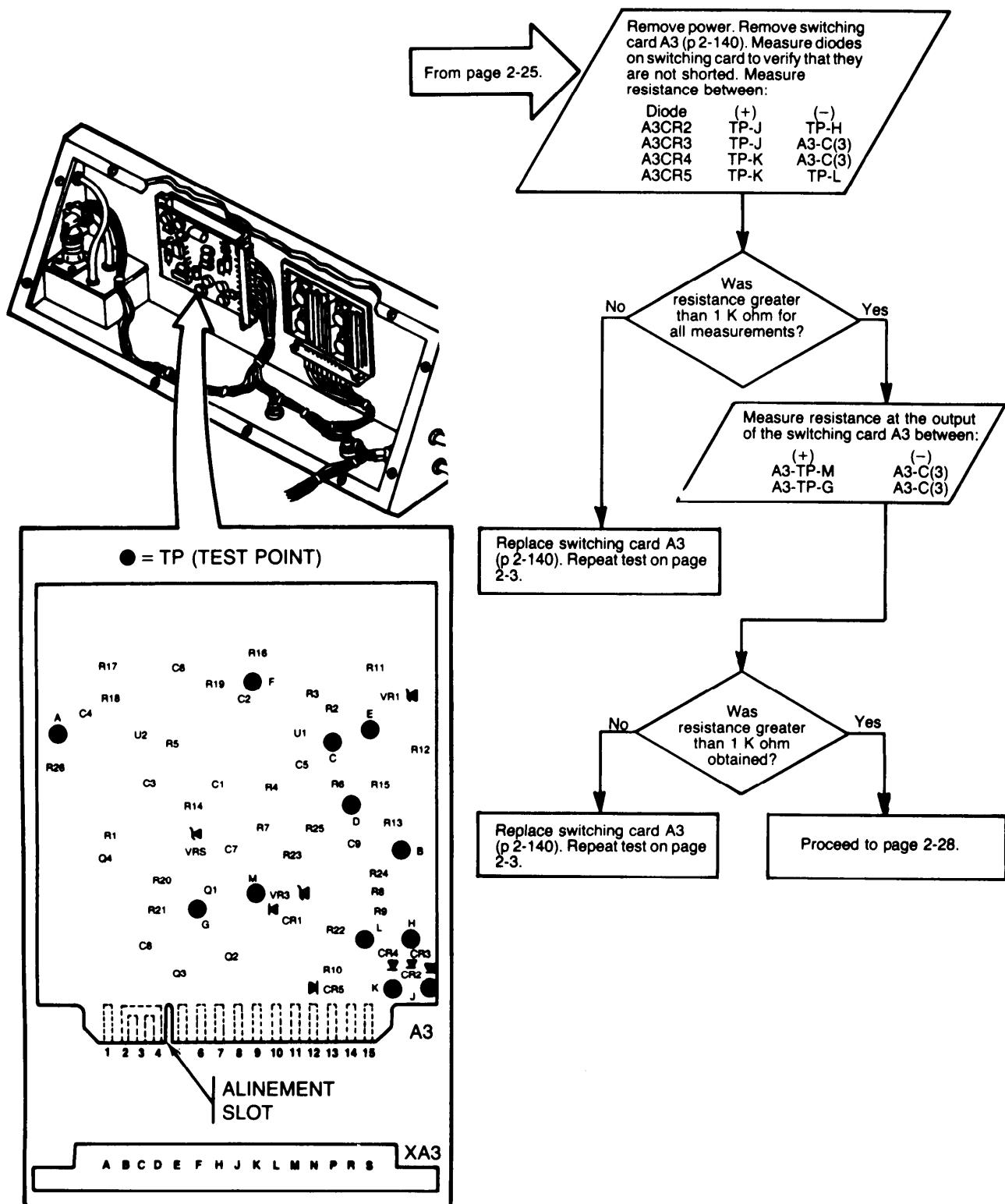
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



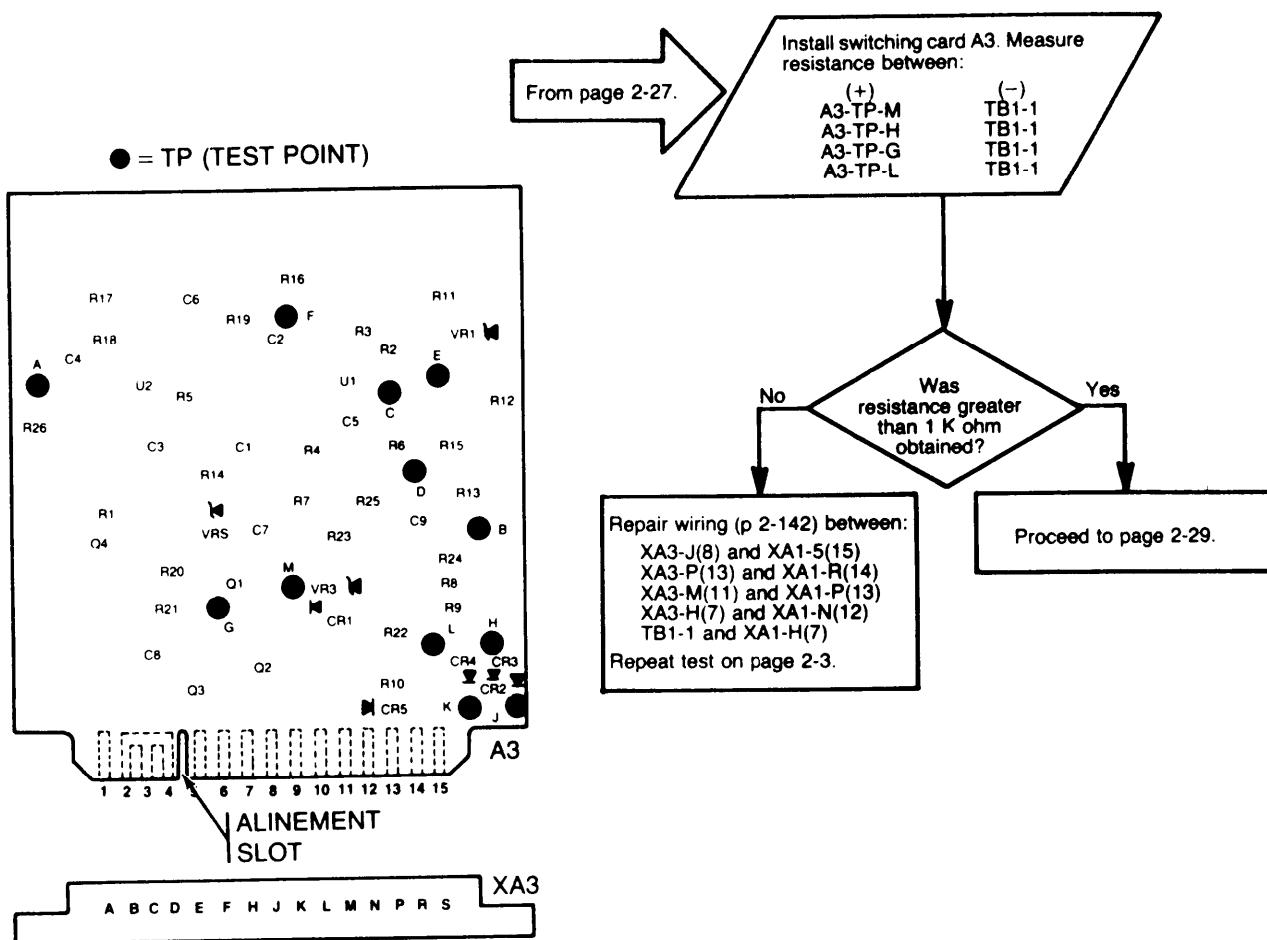
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



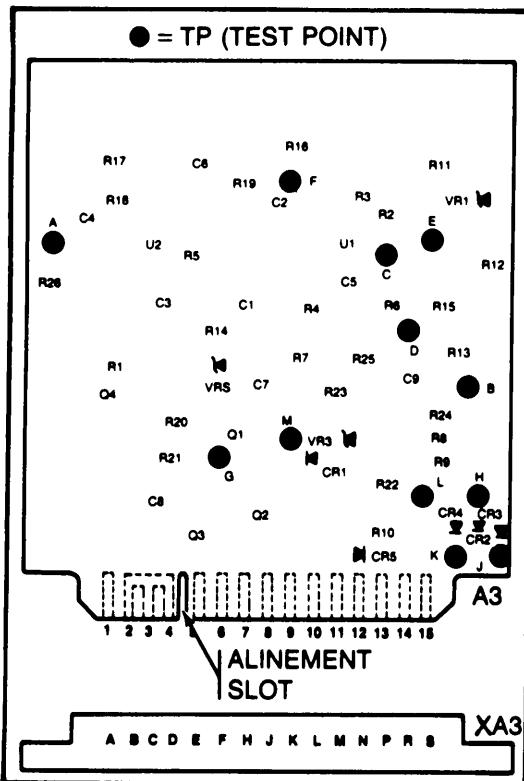
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont).



2-3. PECM TROUBLESHOOTING PROCEDURES



2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



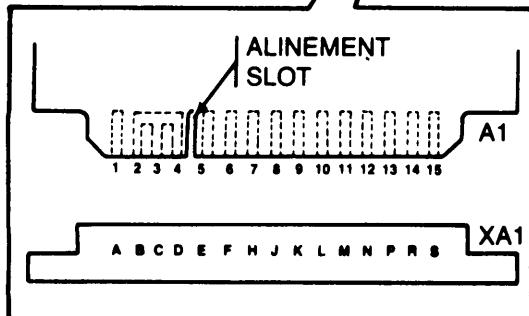
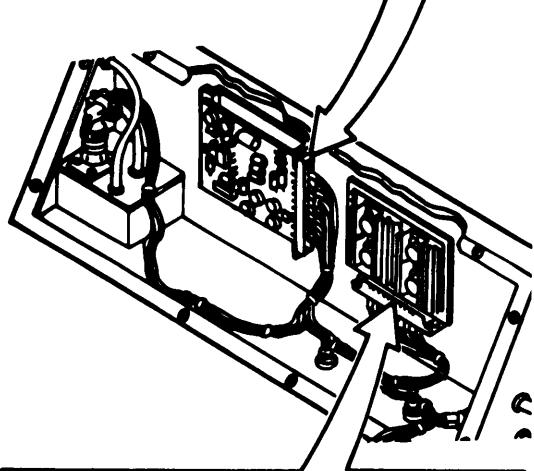
From page 2-28.

Remove power printed circuit card A1.
Connect jumpers as follows:

(From) (To)
XA1-L(10) XA1-K(9)

This connection completes the power to the switching card A3 which is normally provided when the power card A1 is removed so that the switching card A3 is not electrically loaded by a defective power card. Apply 28 vdc power and vacuum to the PECM as indicated below and measure test point (TP) voltage on switching card A3 with respect to ground TB1-1 as indicated:

| Vacuum (in. wg) | Voltage at test point (volts) | A3-TP-M | A3-TP-G |
|--------------------|-------------------------------|-----------|---------|
| 0 | 25 ± 2 | < 1 | |
| 0.4 | 9.3 ± 3.5 | < 1 | |
| 0.6 | 1 | < 1 | |
| 0.8 | 1 | 9.3 ± 3.5 | |
| 1.3 | 1 | 25.3 ± 2 | |

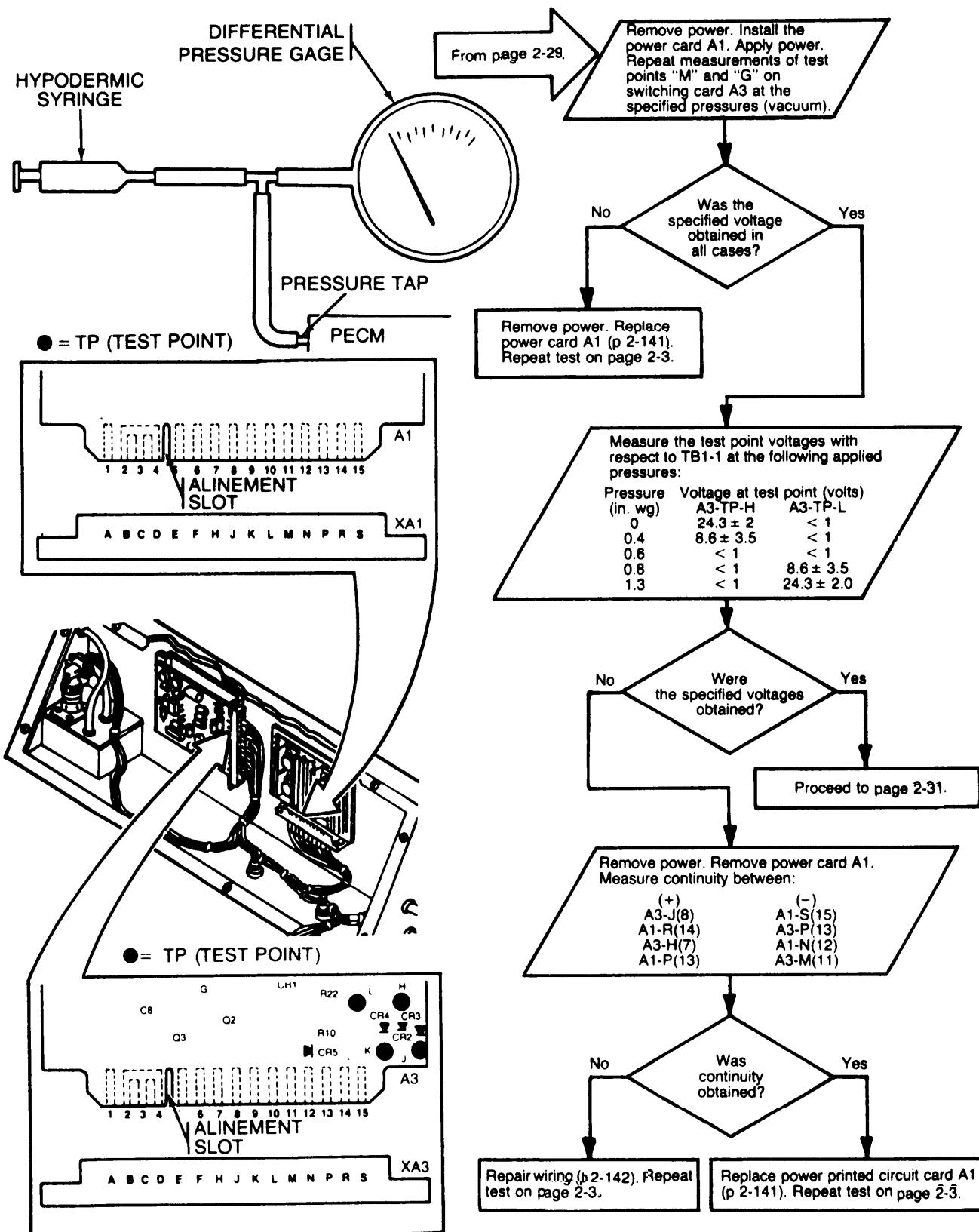


Was the specified voltage obtained in all cases?

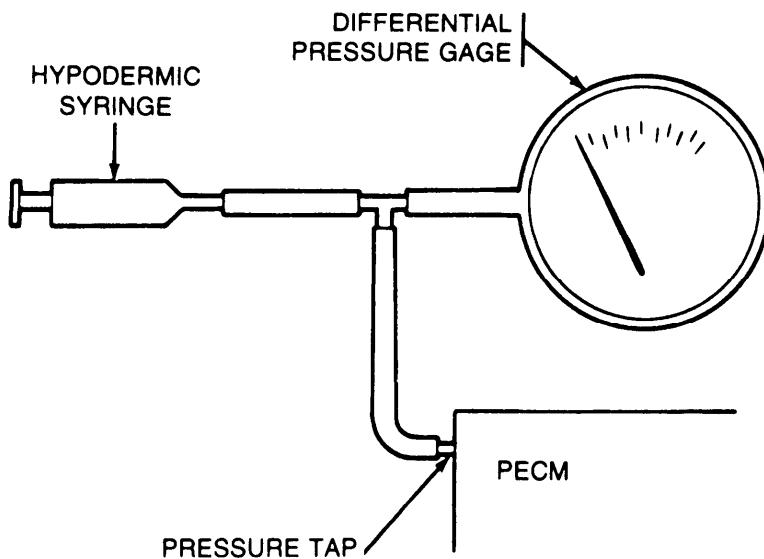
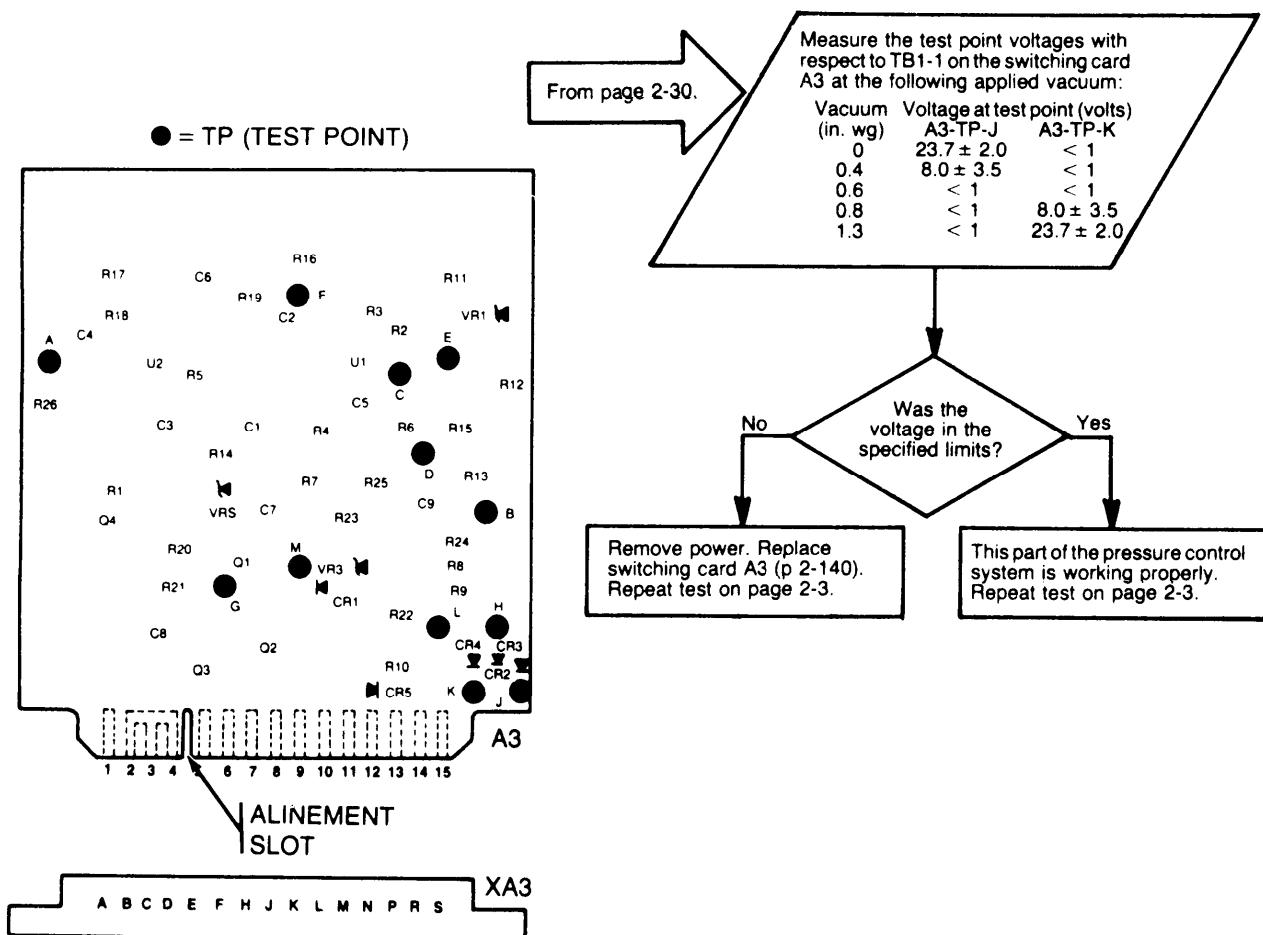
No
Remove power. Remove jumper. Replace the switching card A3 (p 2-140). Repeat test on page 2-3.

Yes
Proceed to page 2-30. Remove jumper.

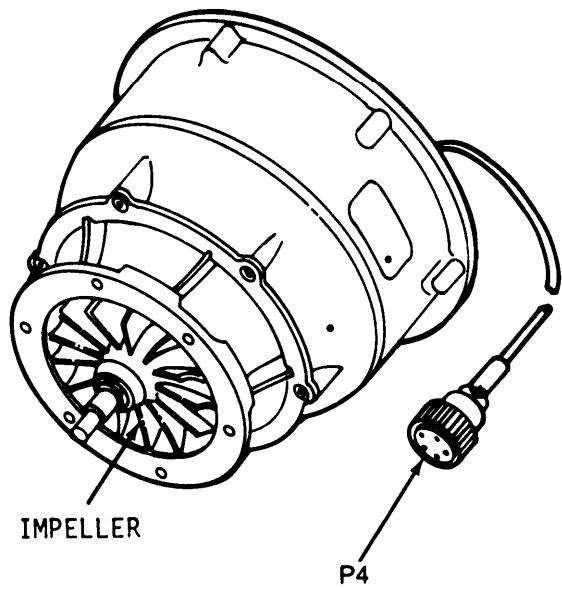
2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).



2-3. PECM TROUBLESHOOTING PROCEDURES (Cont.).

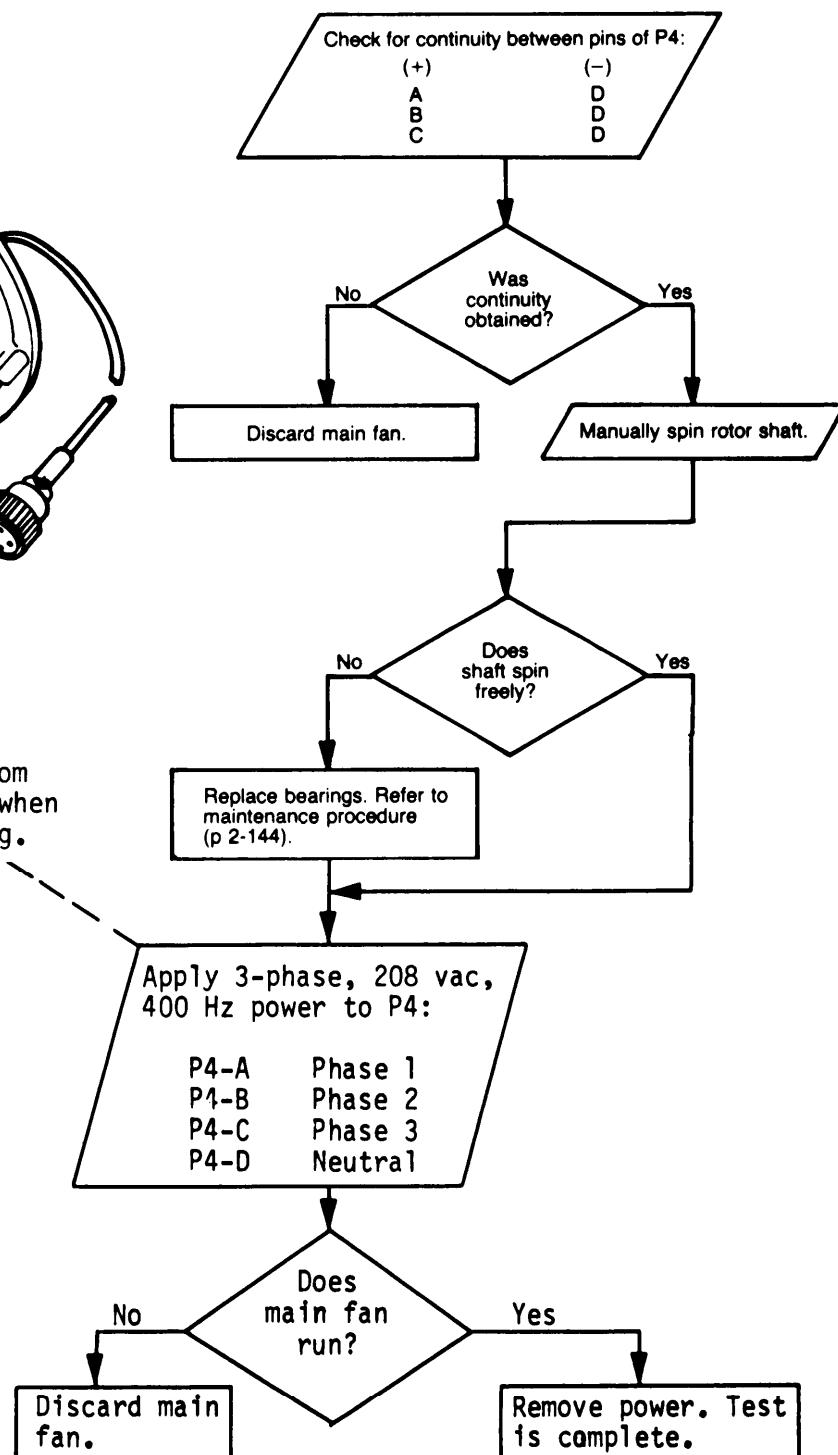


2-4. MAIN FAN TROUBLESHOOTING PROCEDURES.

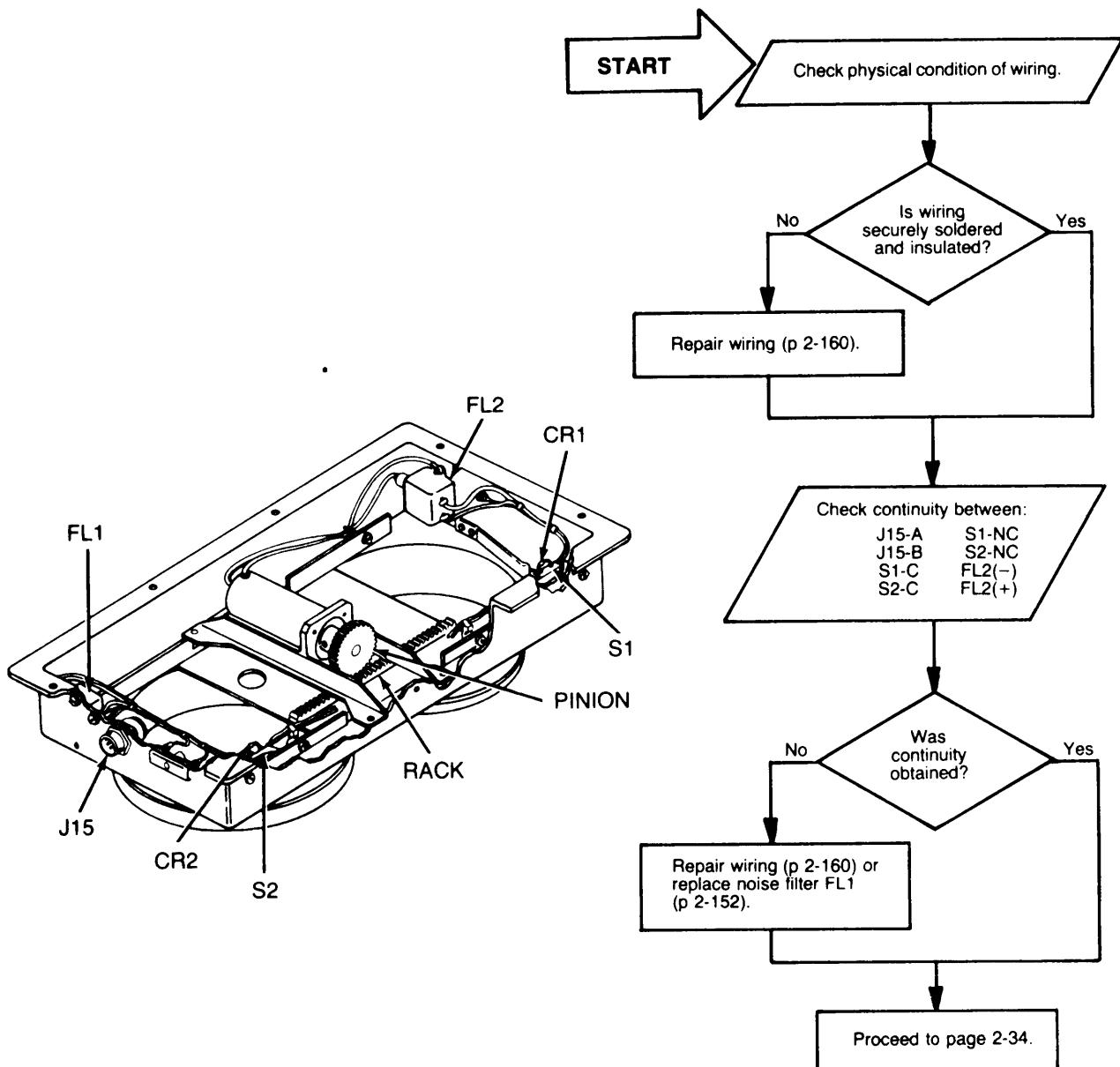


WARNING

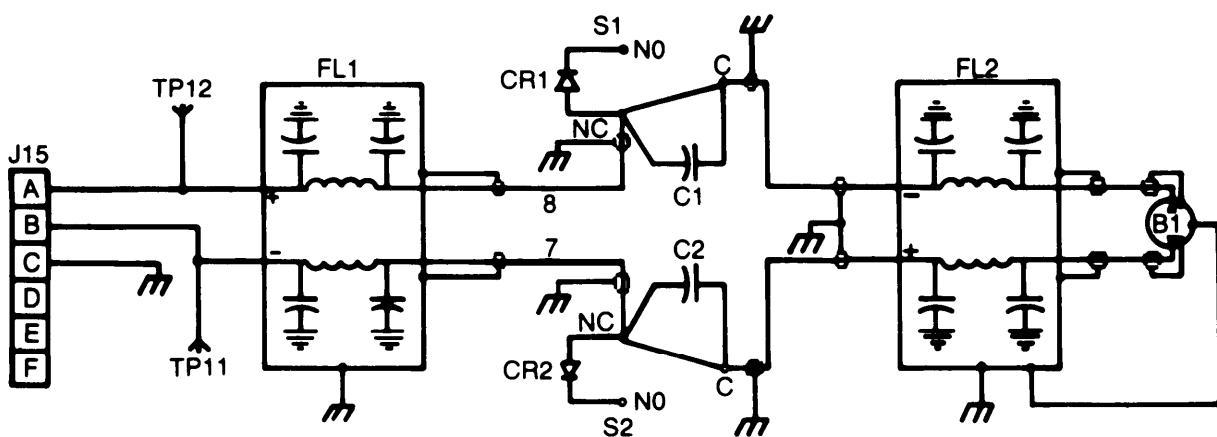
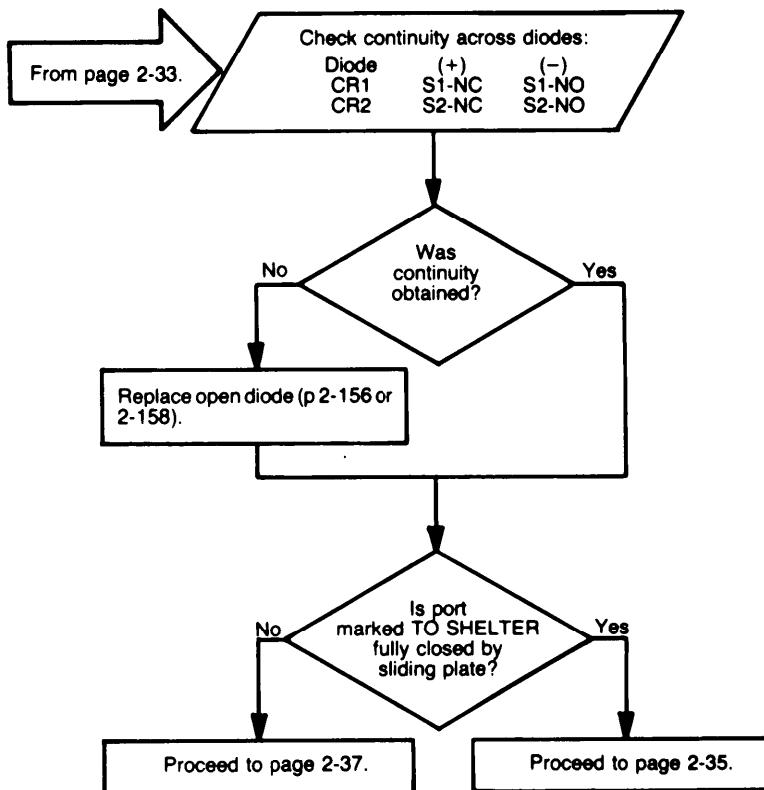
Keep hands away from
fan impeller area when
main fan is running.



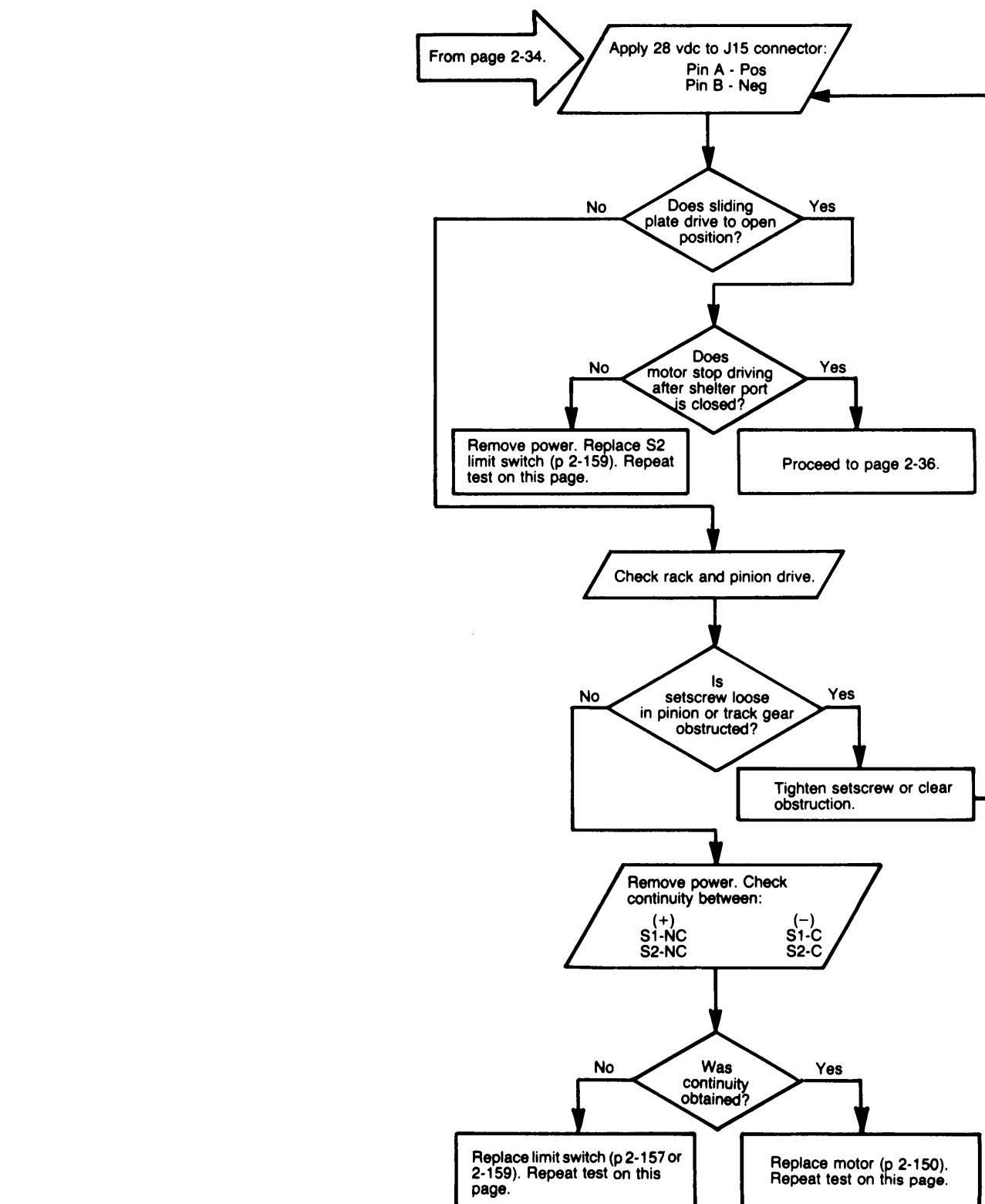
2-5. AIRFLOW VALVE TROUBLESHOOTING PROCEDURES.



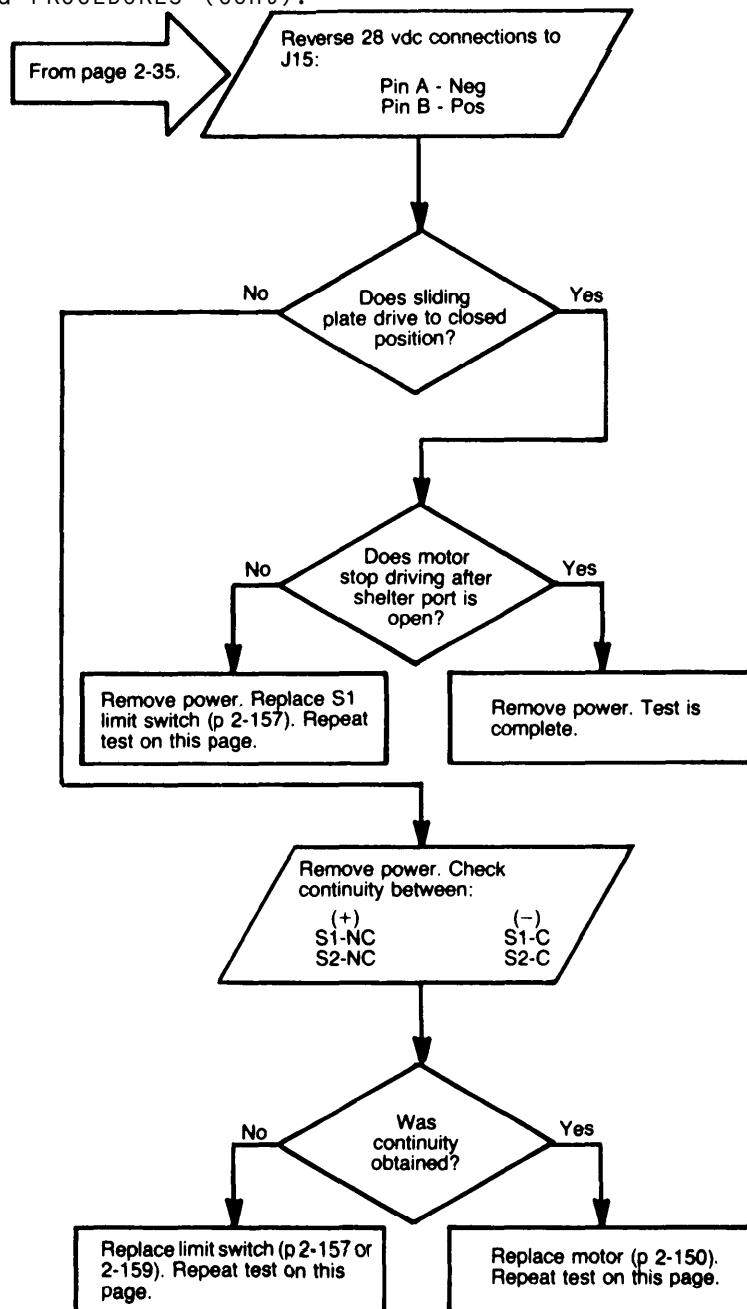
2-5. AIRFLOW VALVE TROUBLESHOOTING PROCEDURES (Cont.).



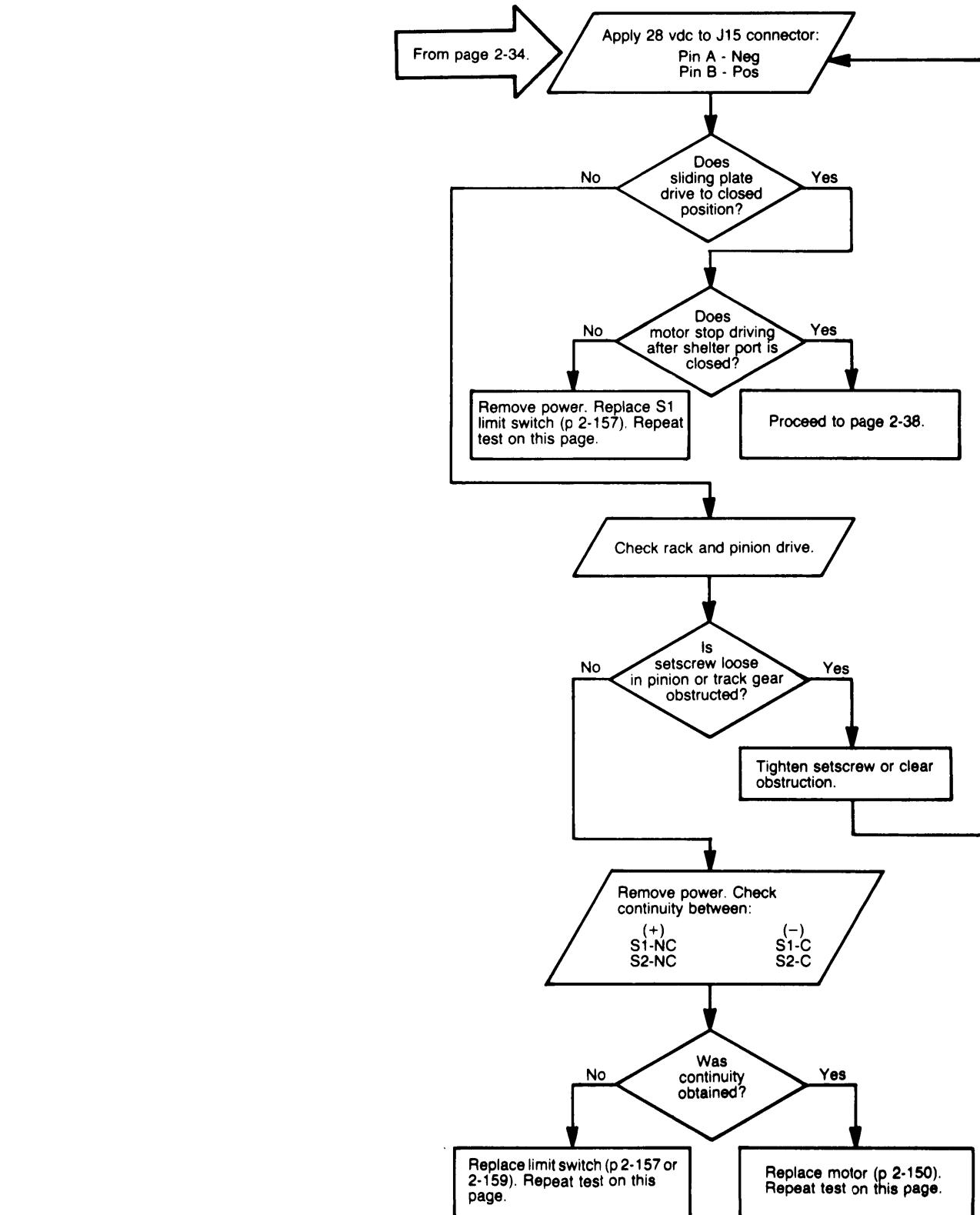
2-5. AIRFLOW VALVE TROUBLESHOOTING PROCEDURES (Cont.).



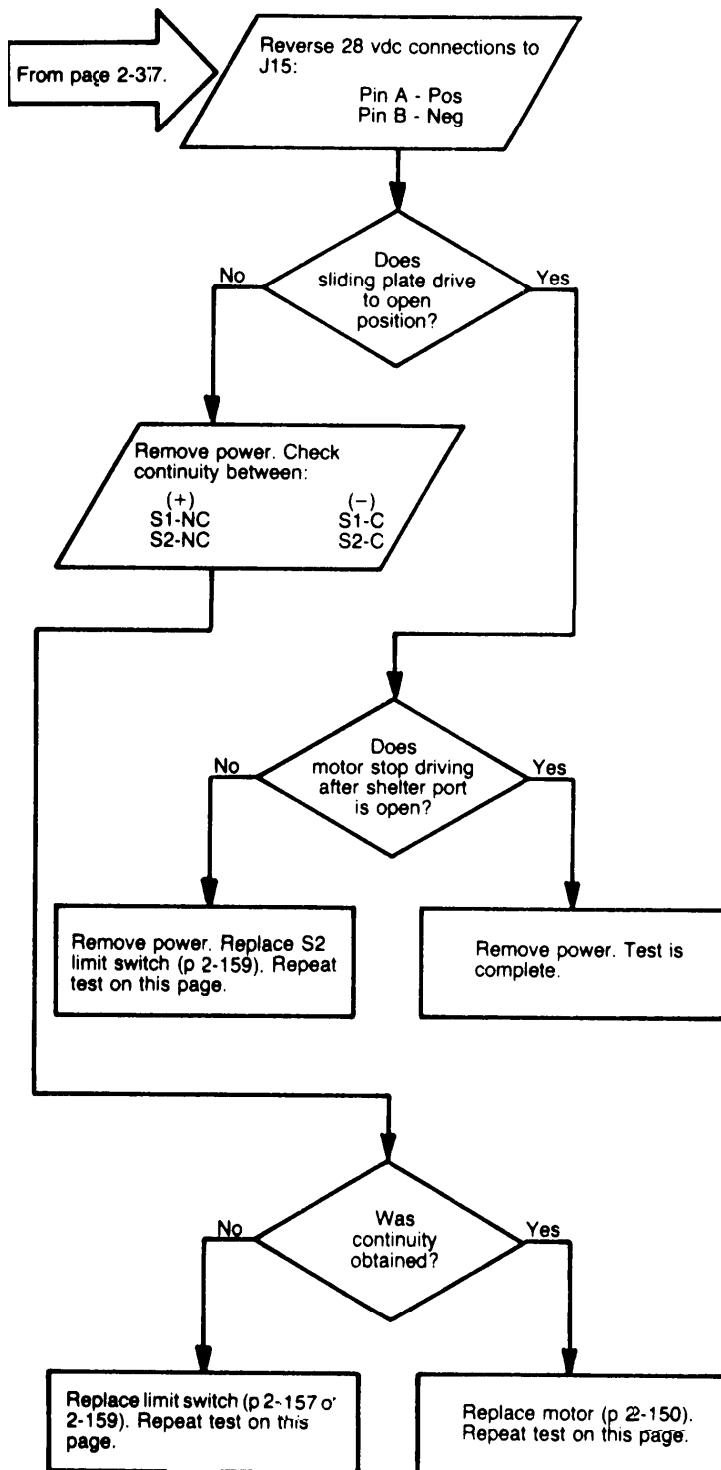
2-5. AIRFLOW VALVE TROUBLESHOOTING PROCEDURES (Cont.).



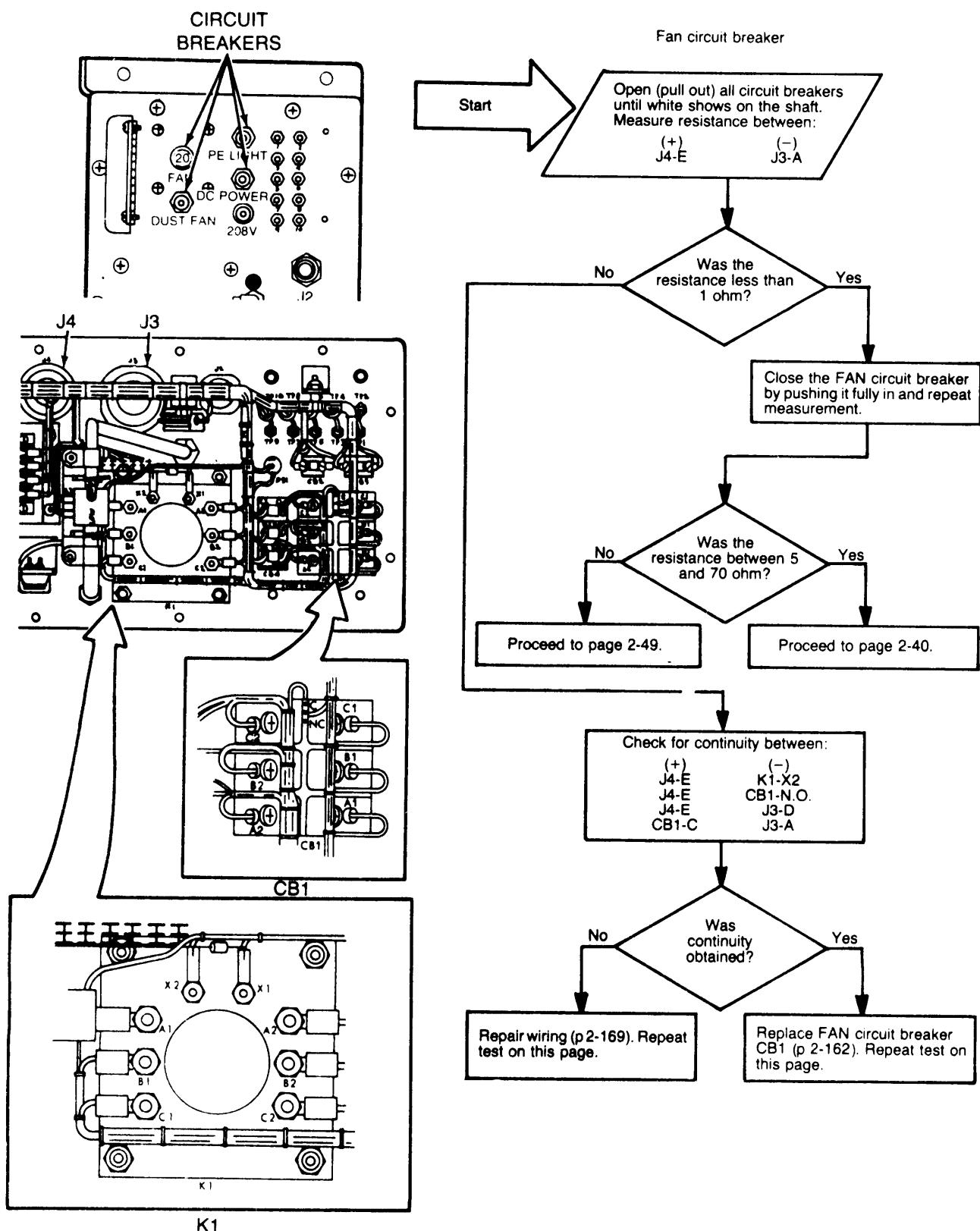
2-5. AIRFLOW VALVE TROUBLESHOOTING PROCEDURES (Cont.).



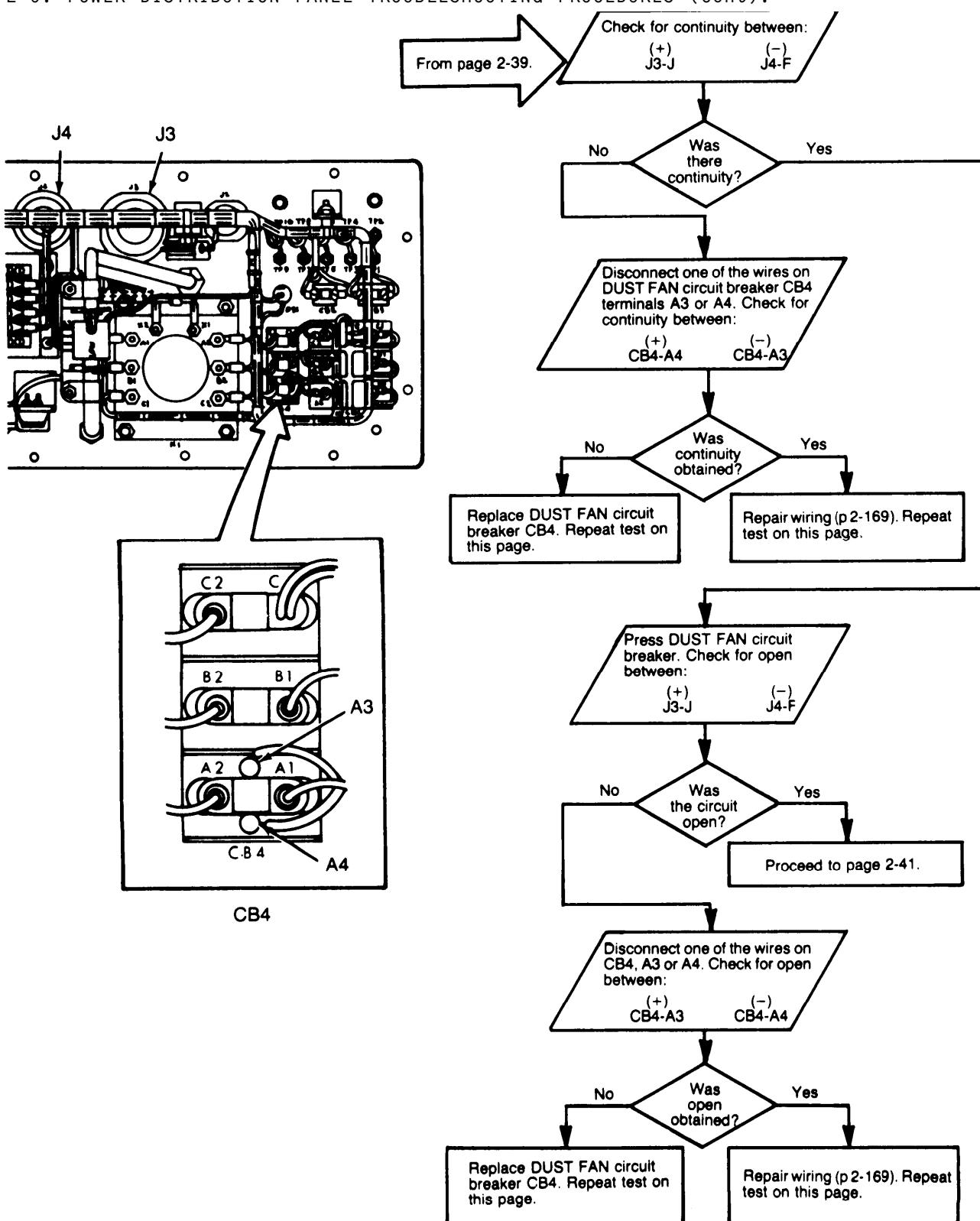
2-5. AIRFLOW VALVE TROUBLESHOOTING PROCEDURES (Cont.).



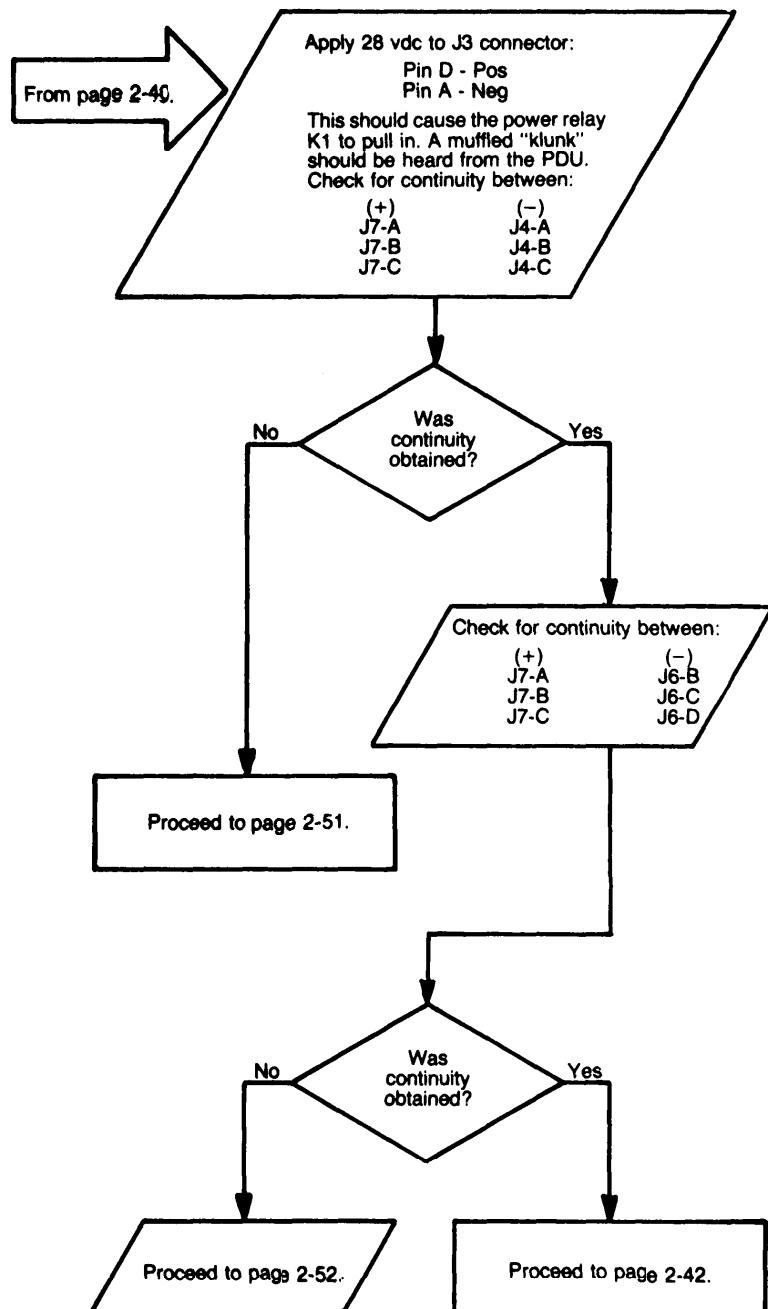
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES.



2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).

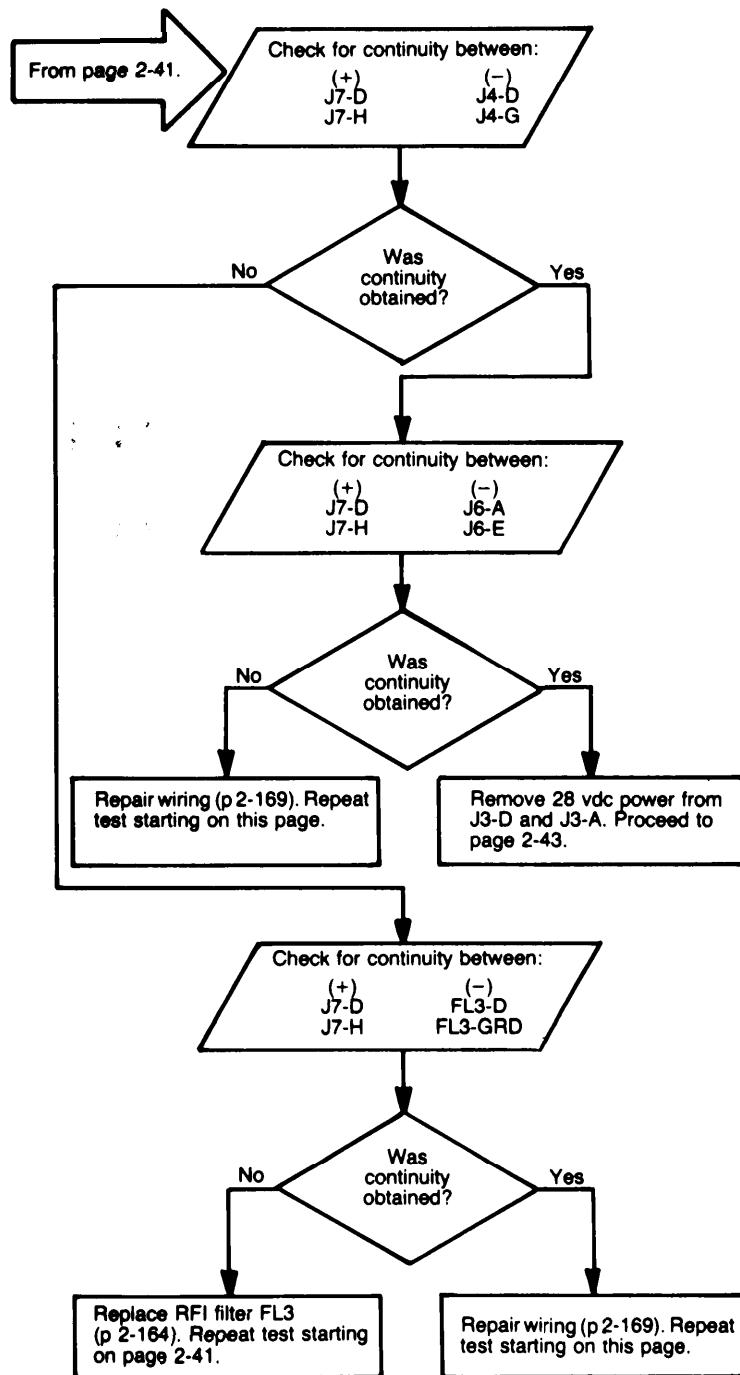


2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).

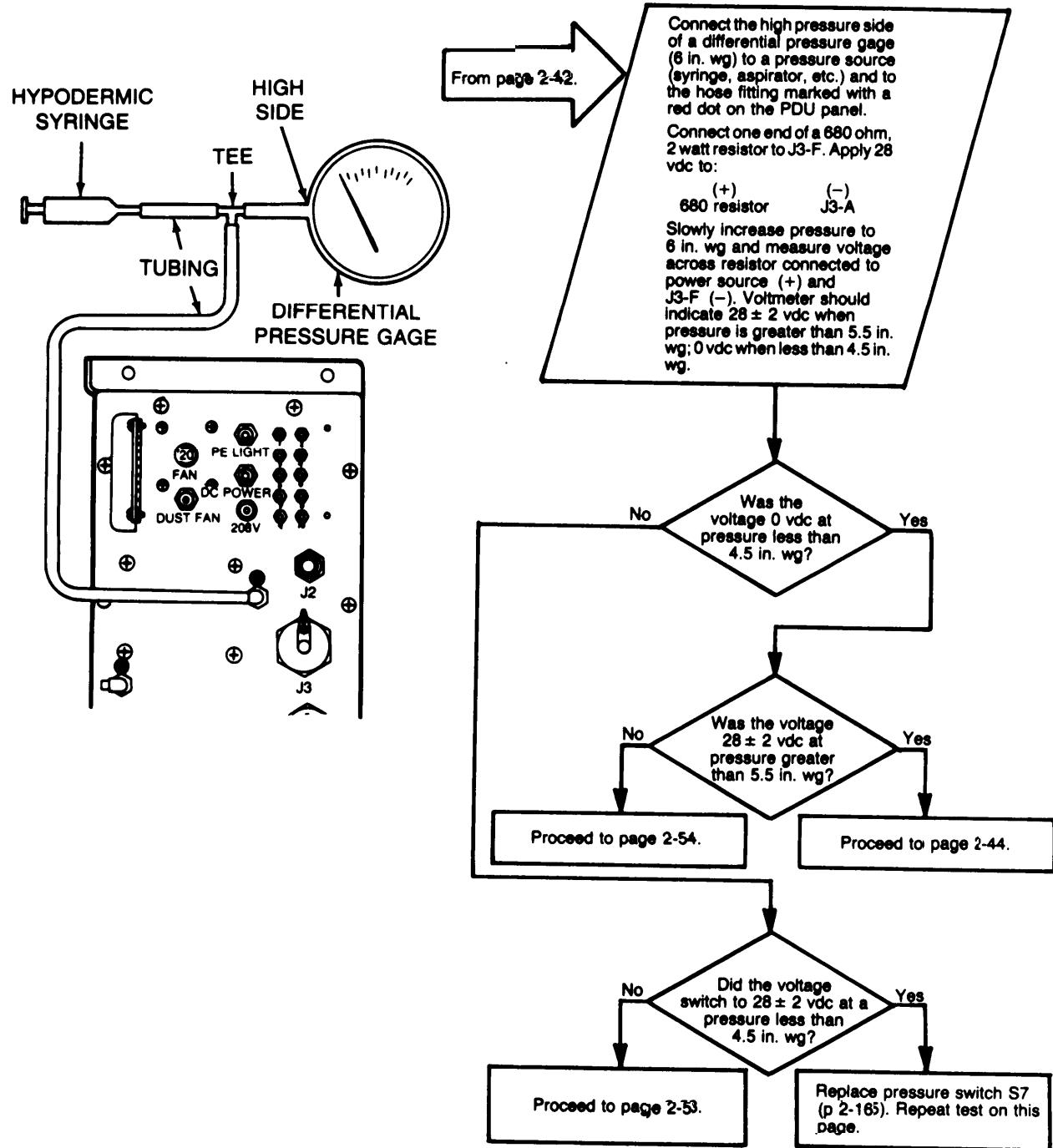


2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).

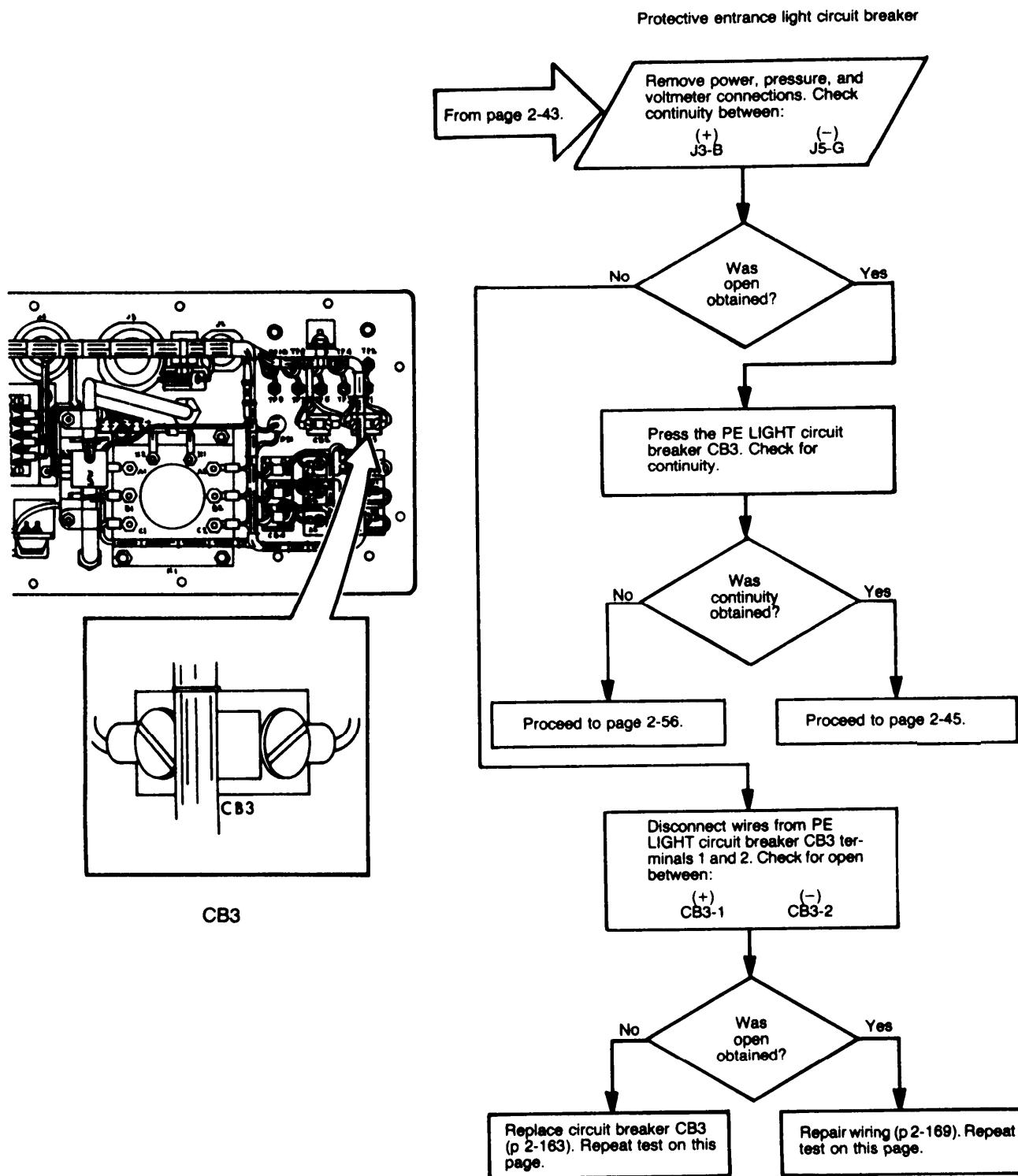
Power relay continued



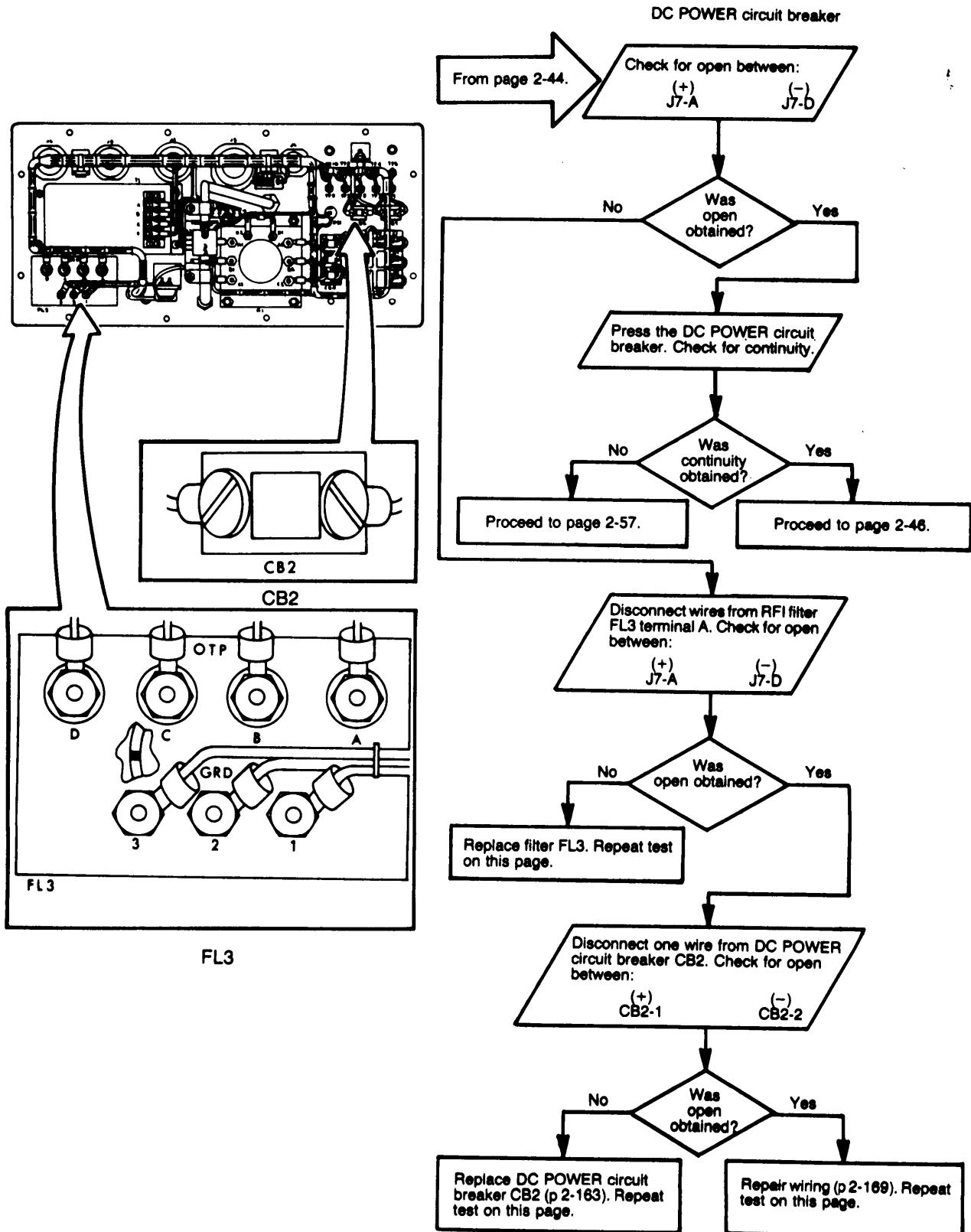
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



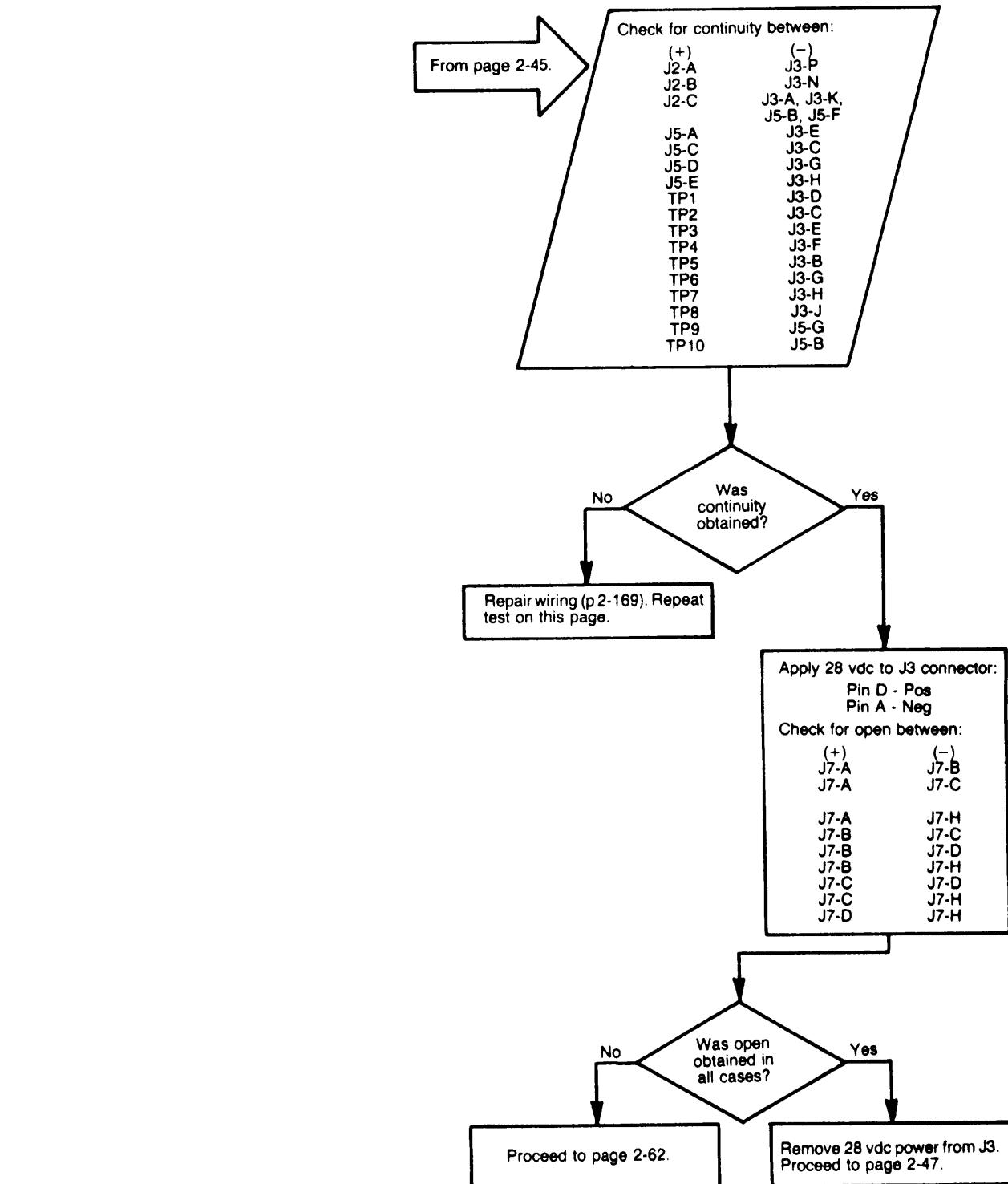
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



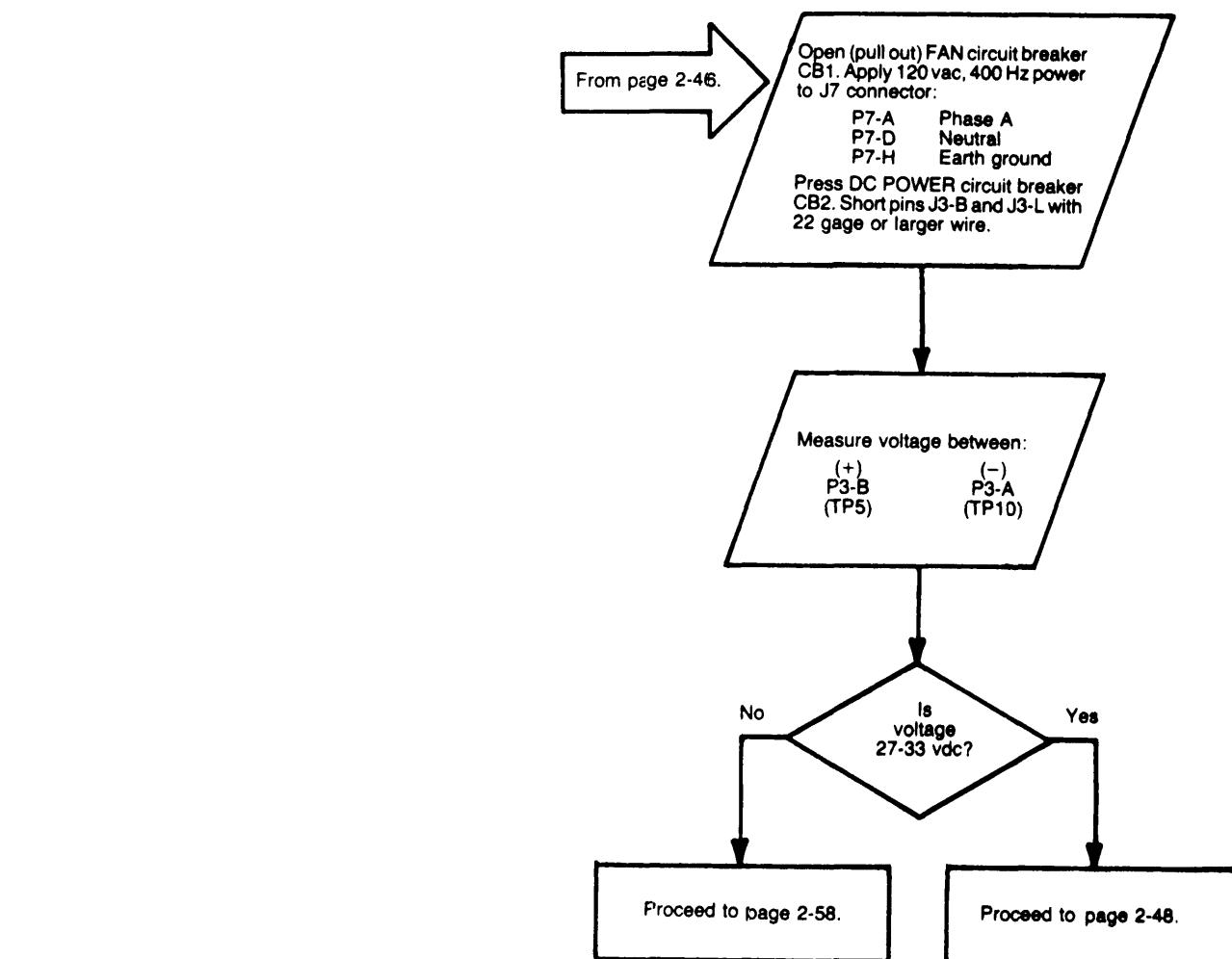
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



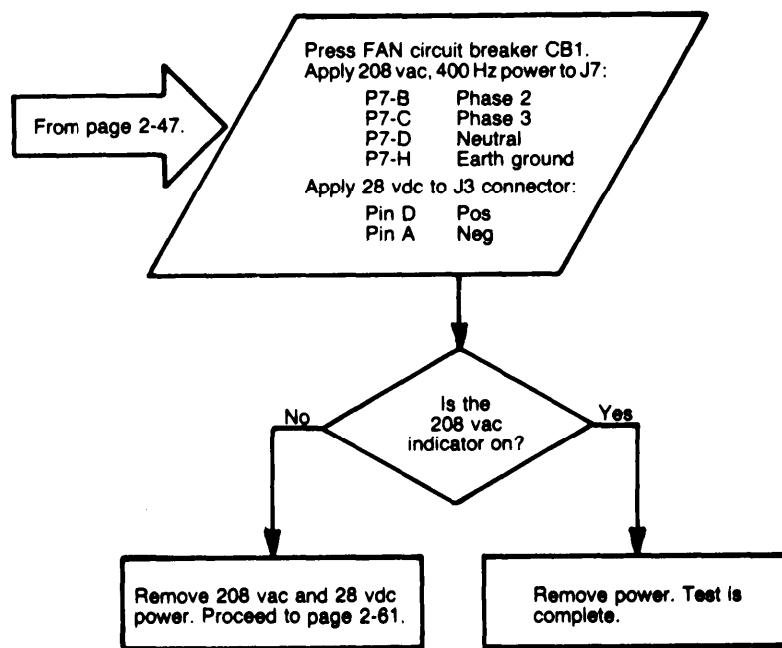
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



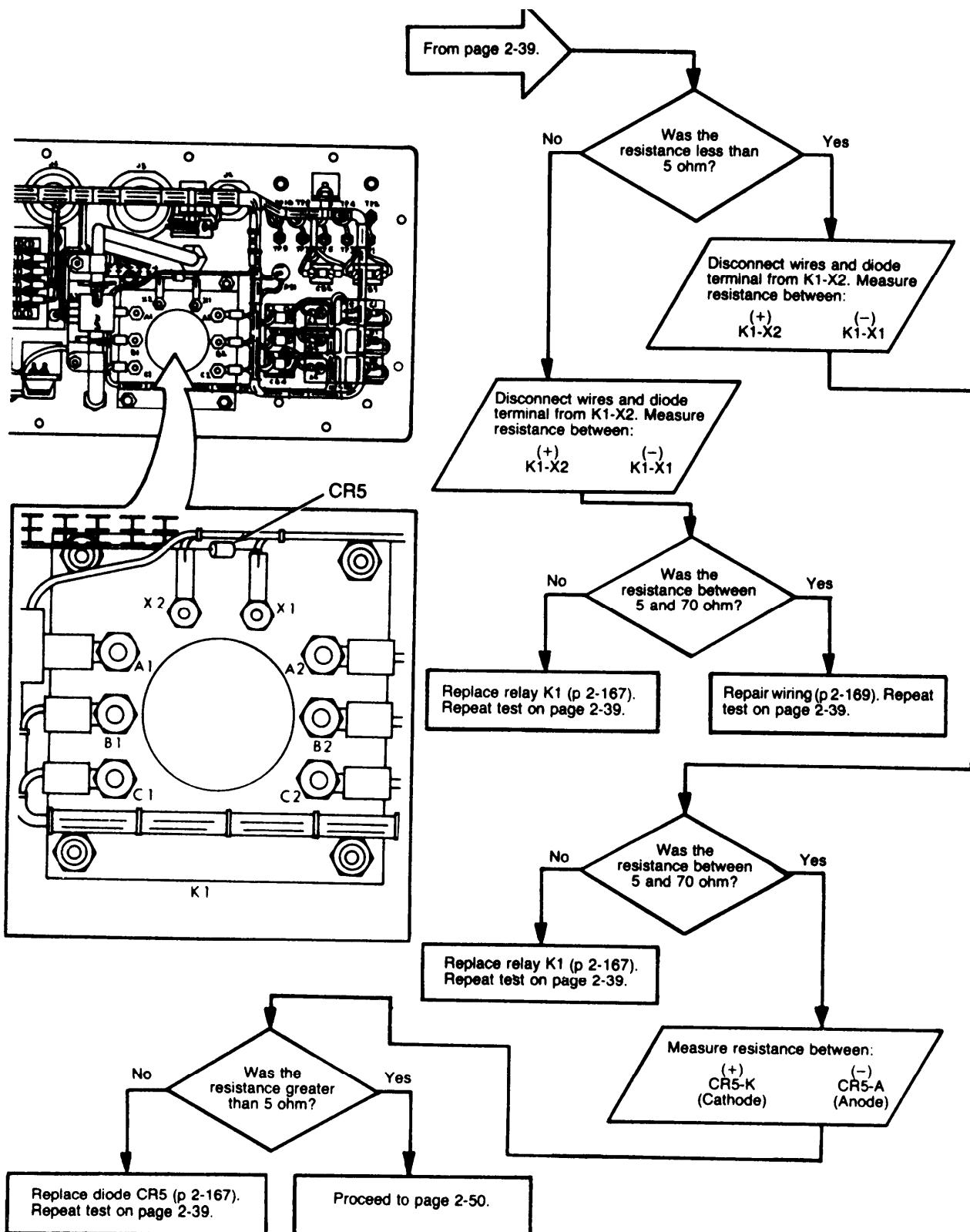
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



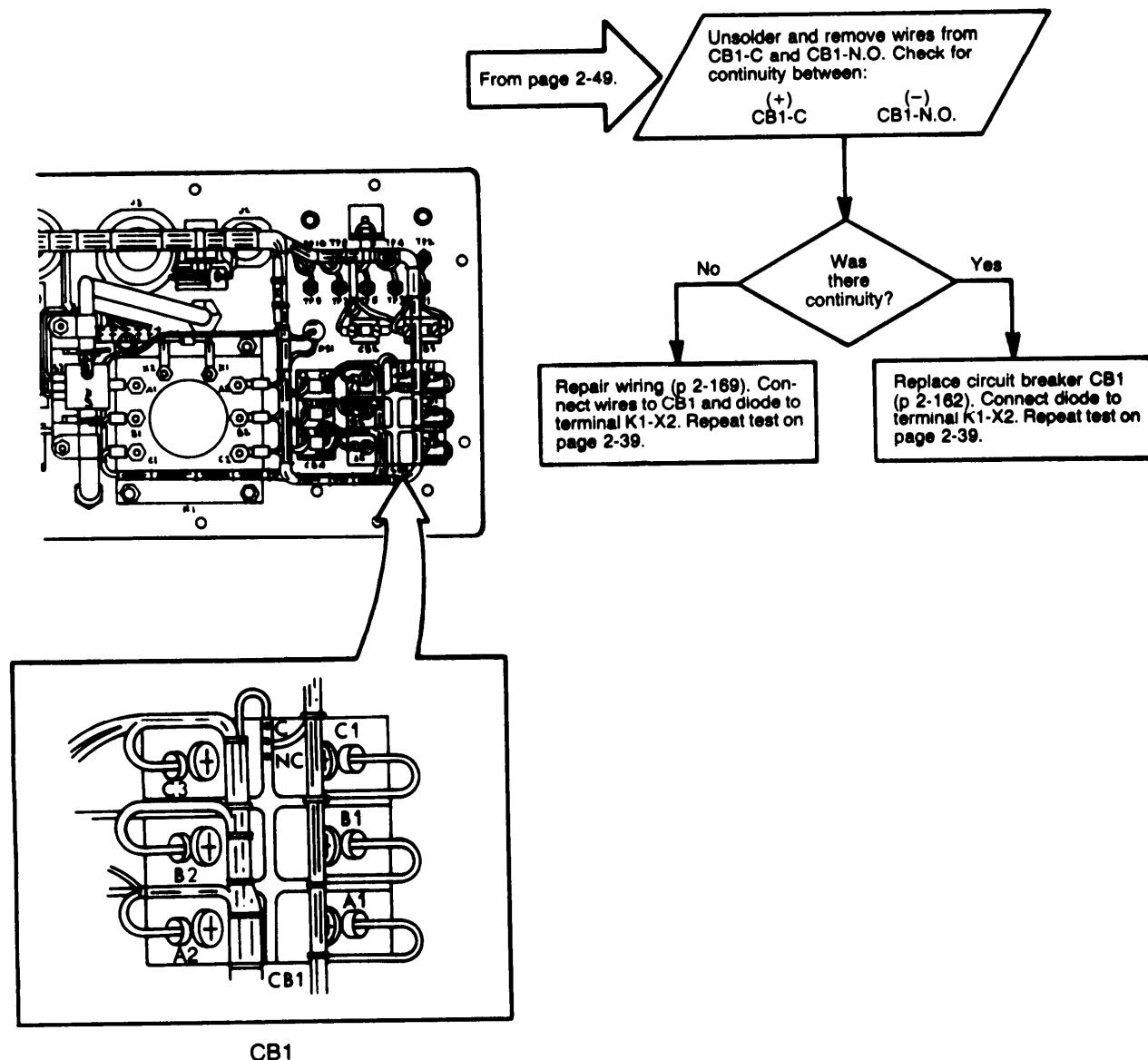
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



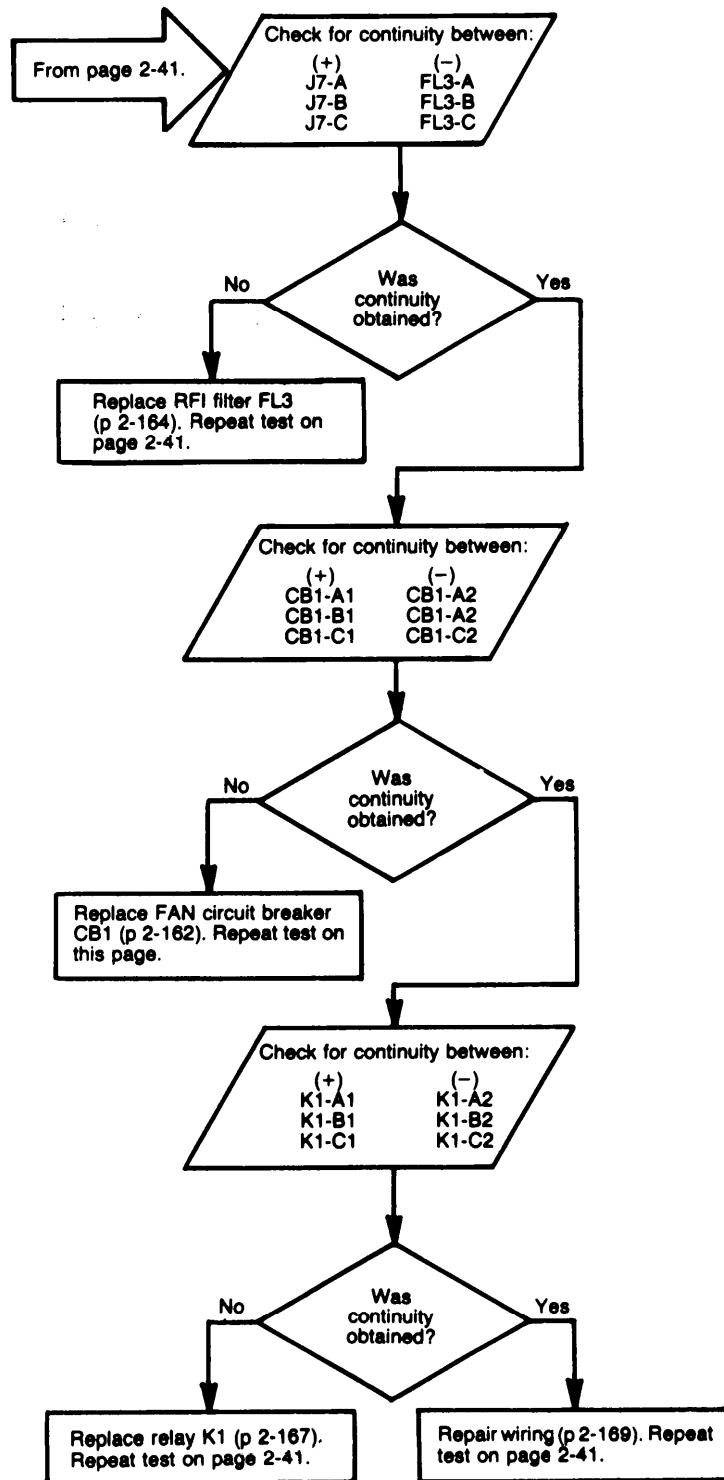
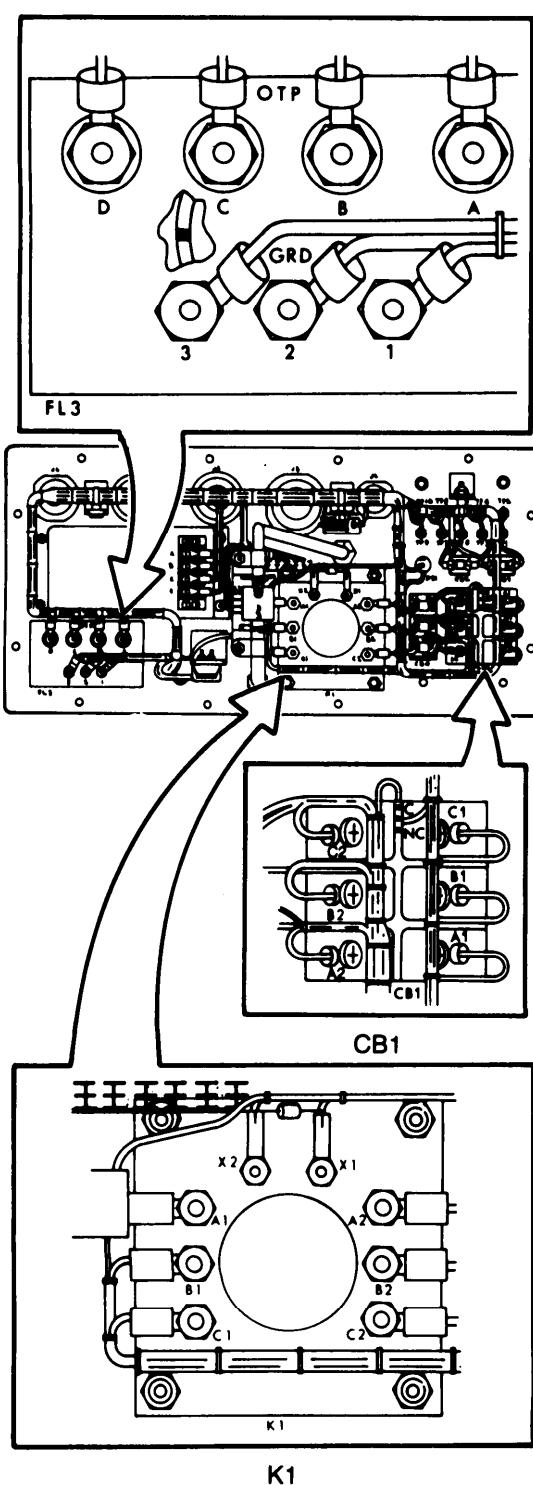
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



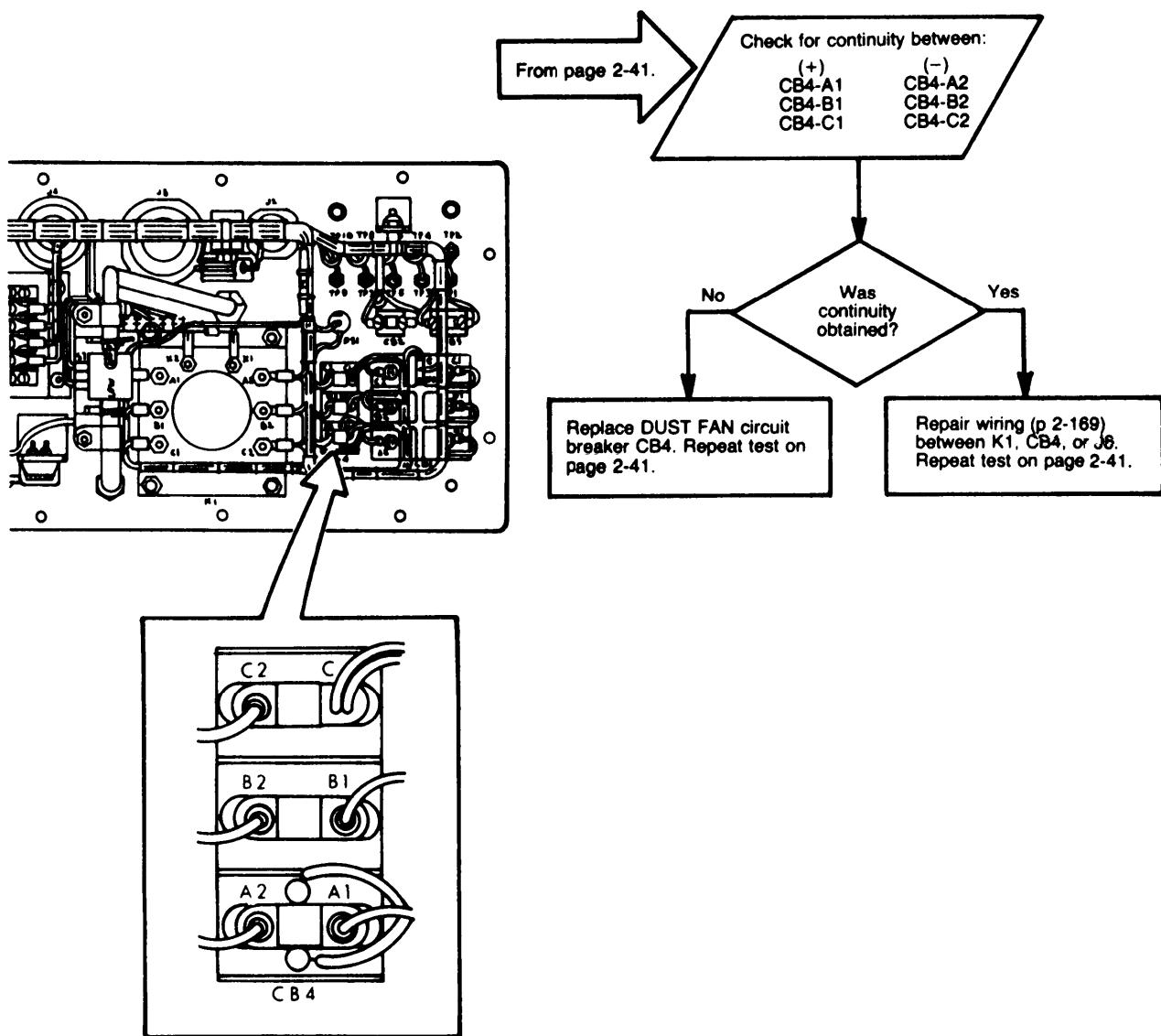
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



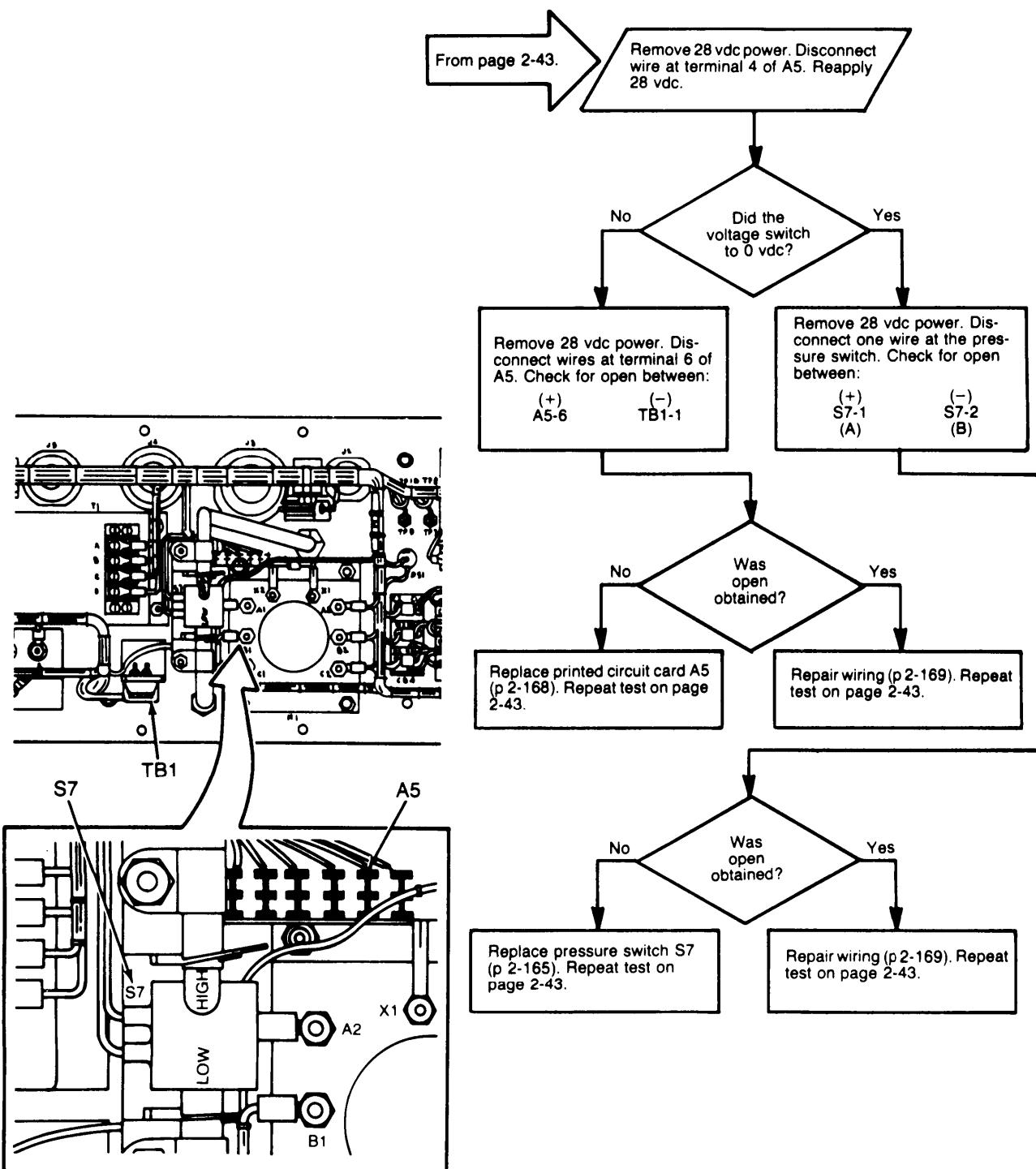
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



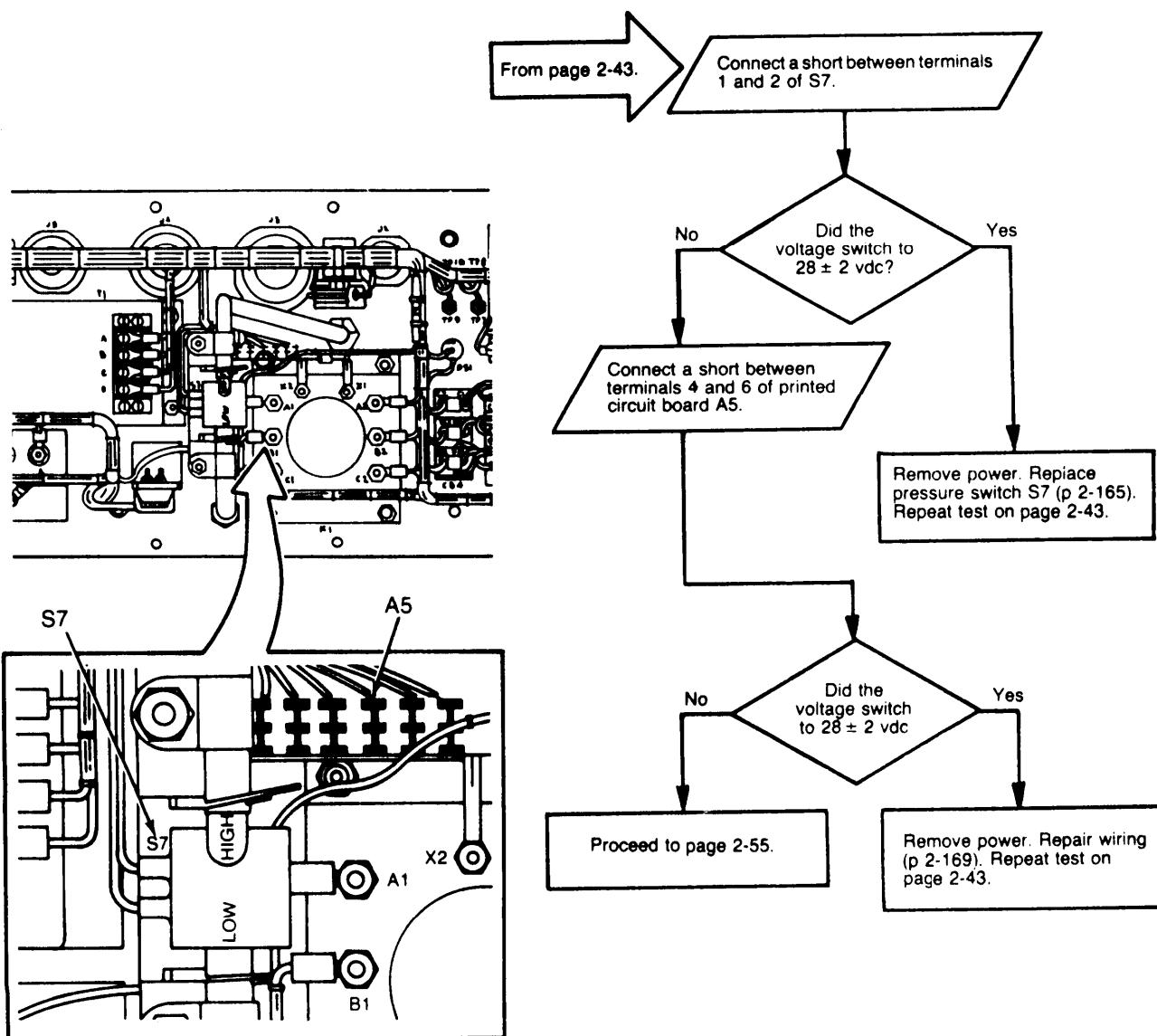
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



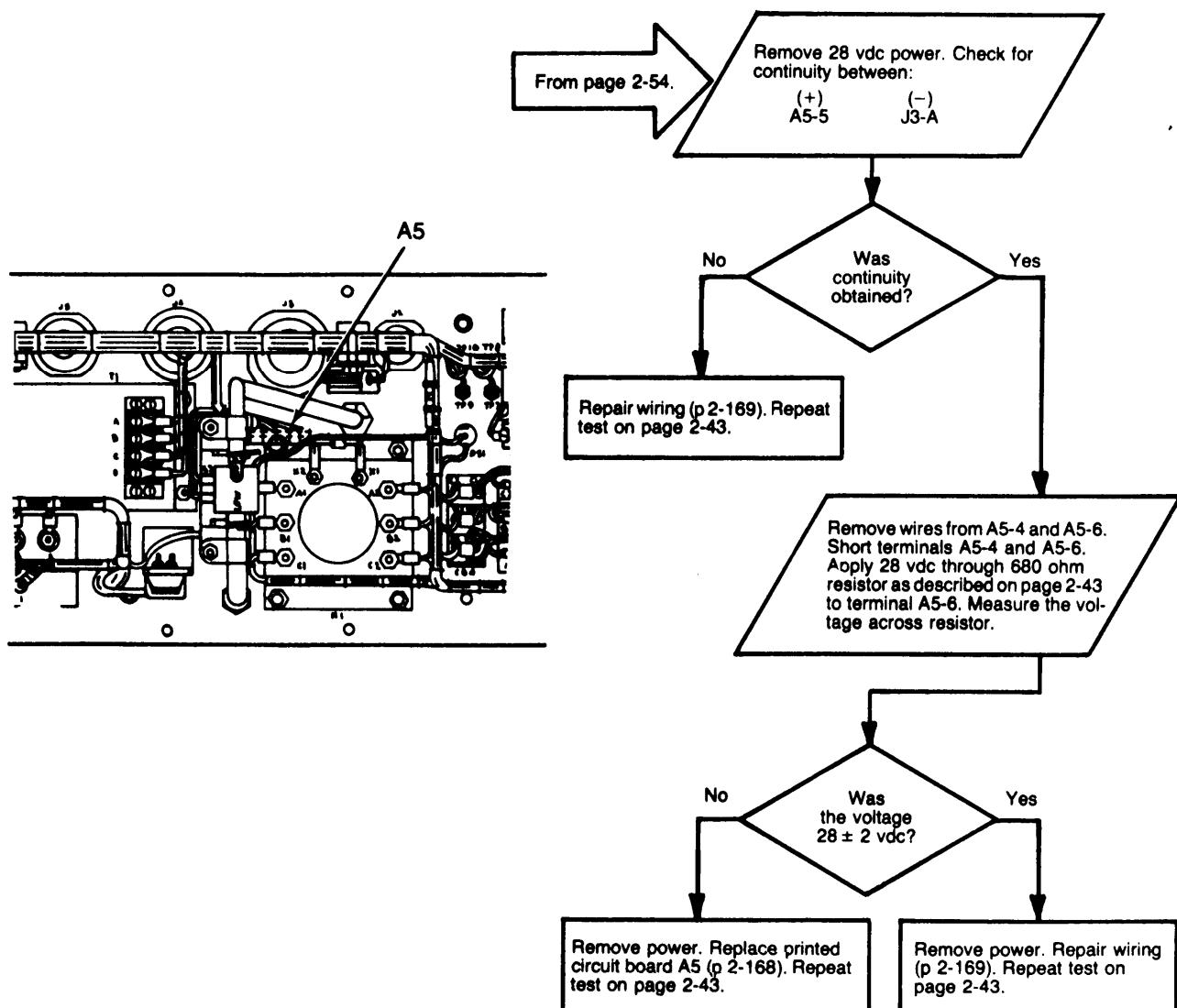
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



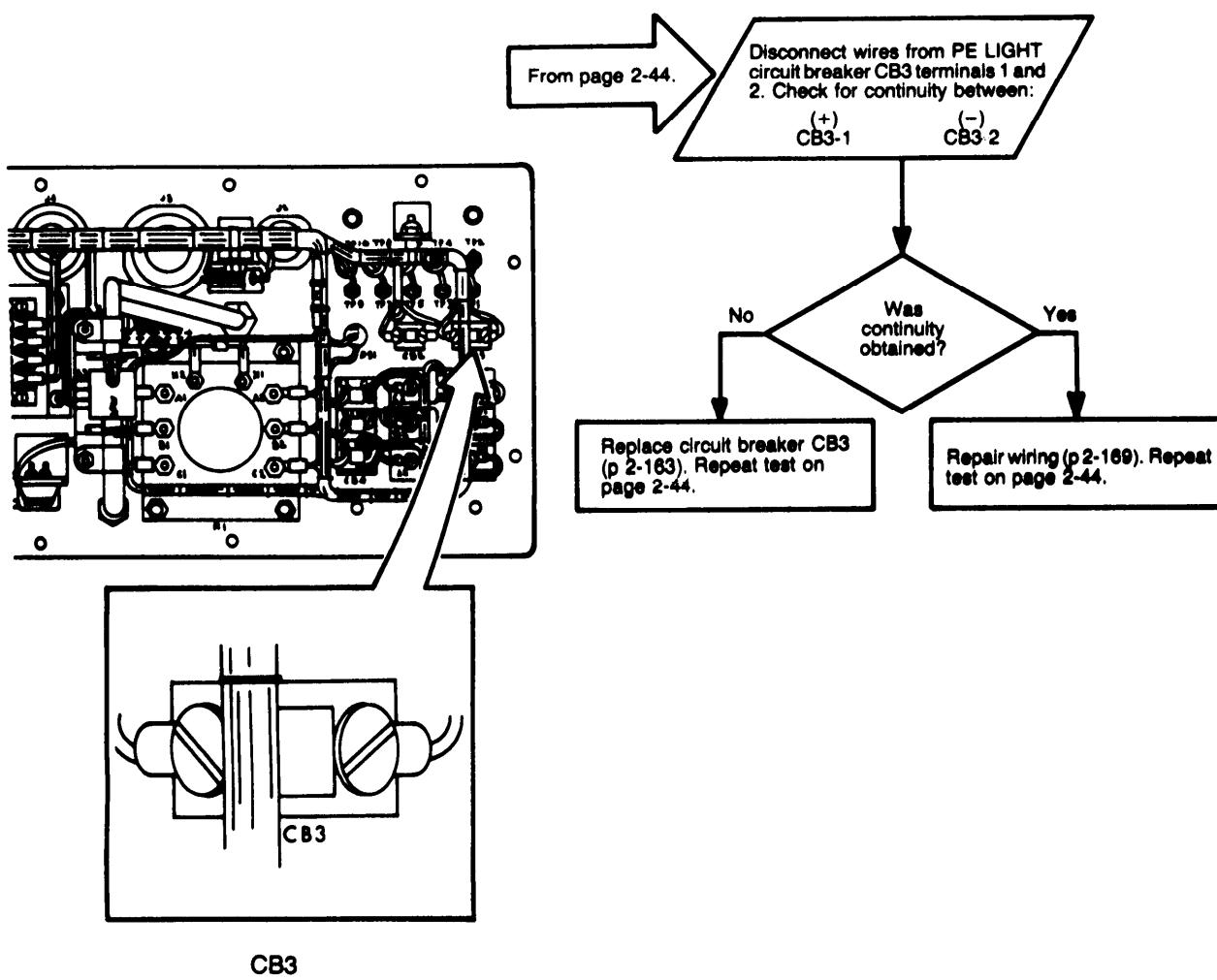
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



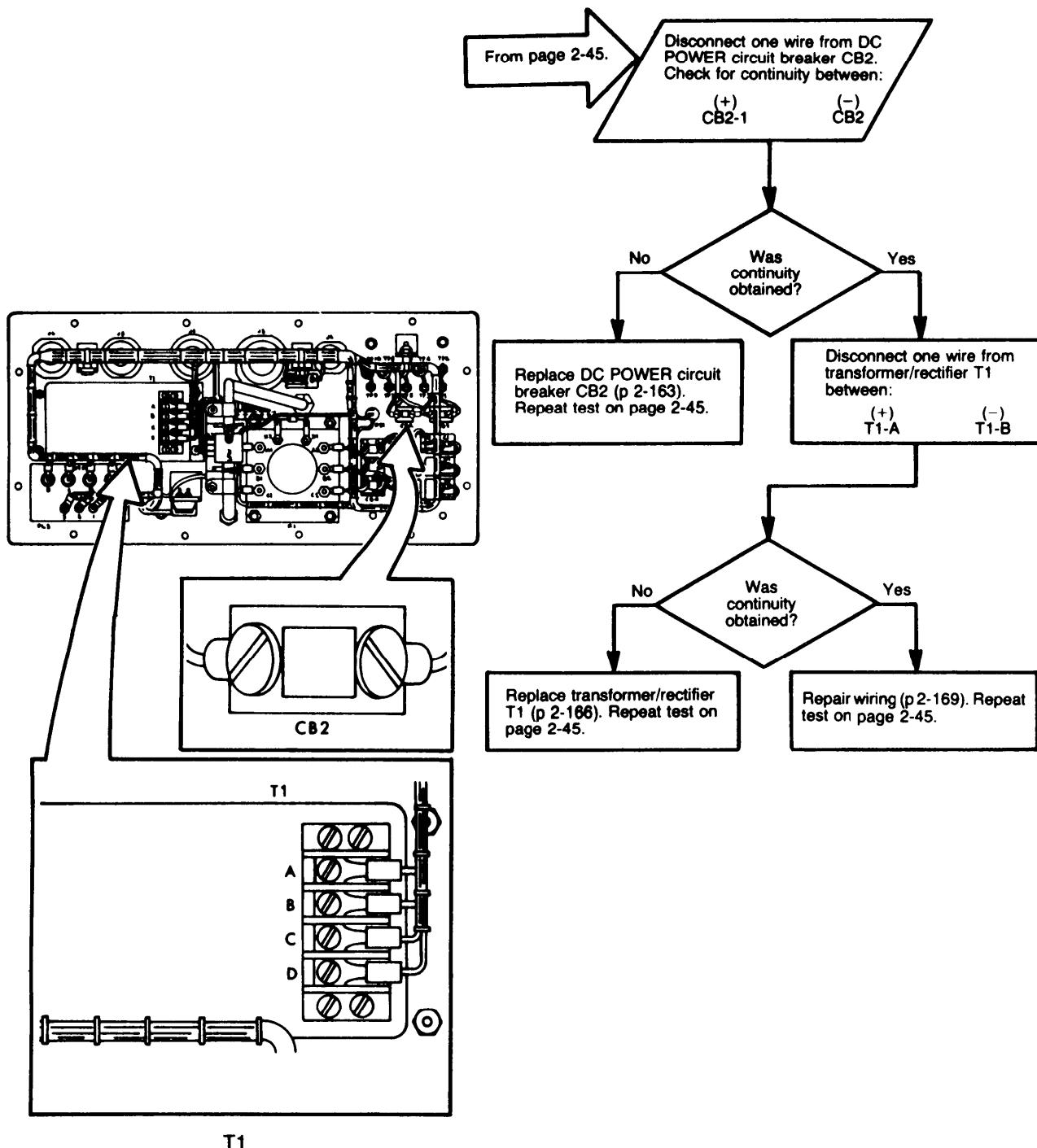
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



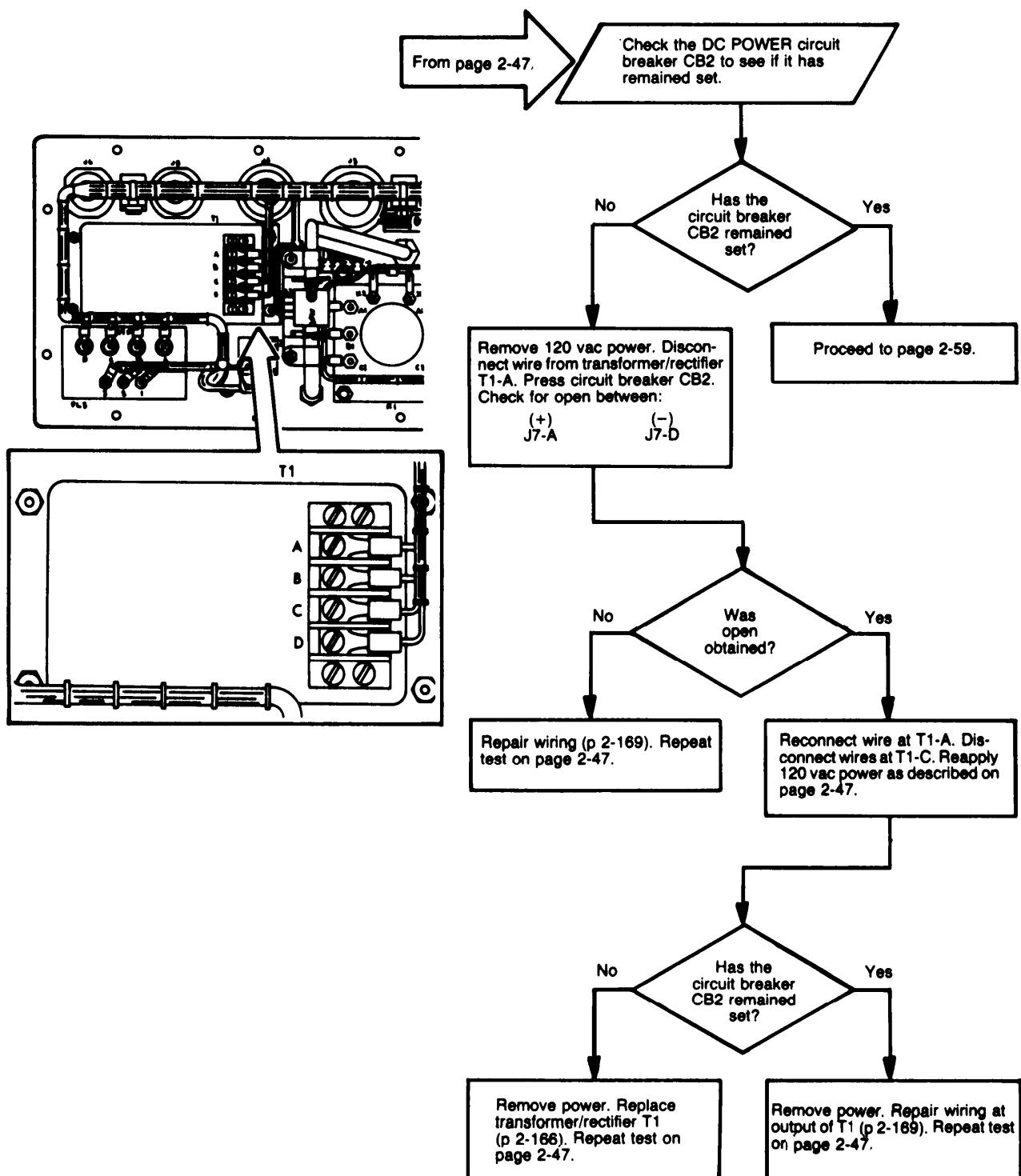
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (cont)



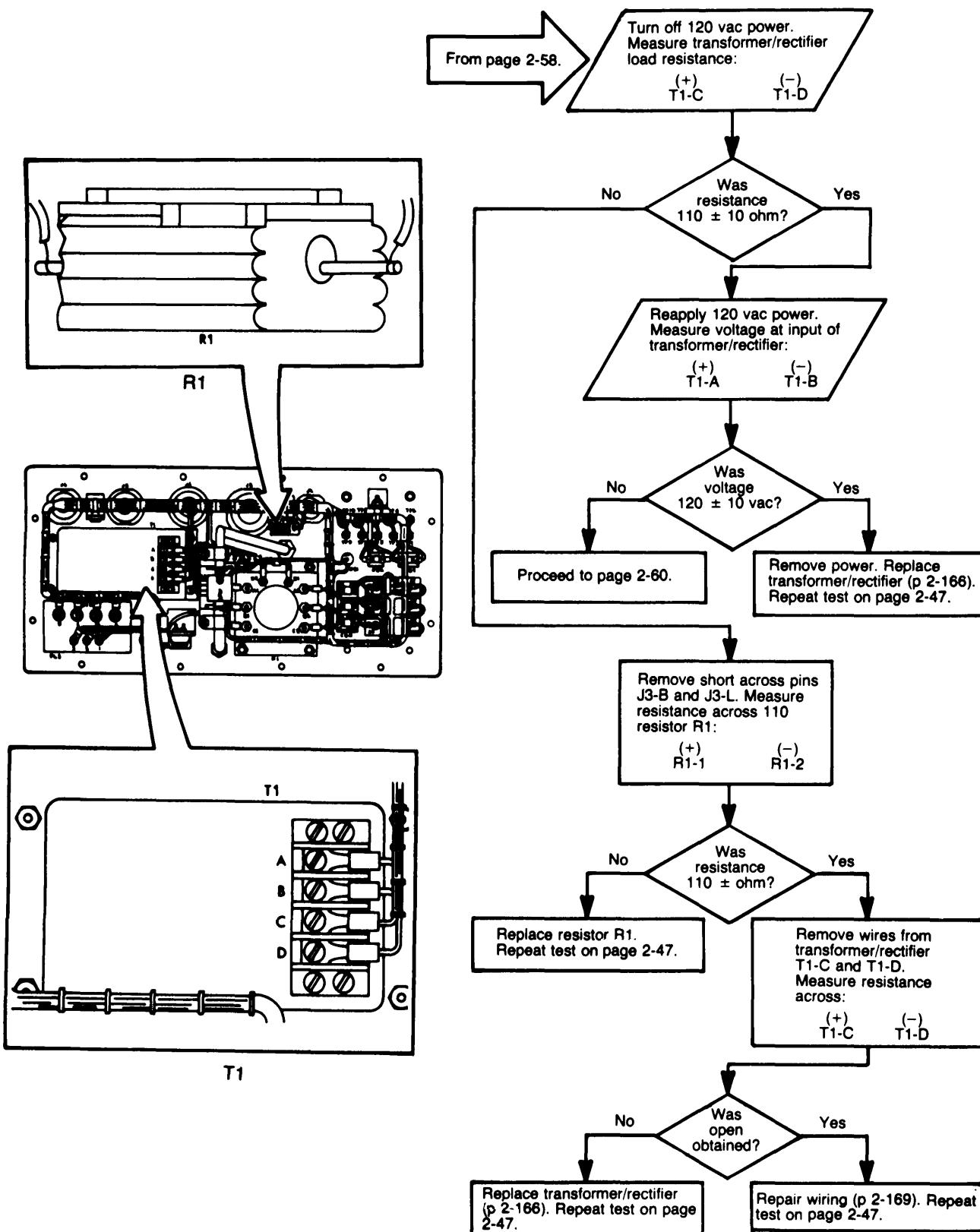
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



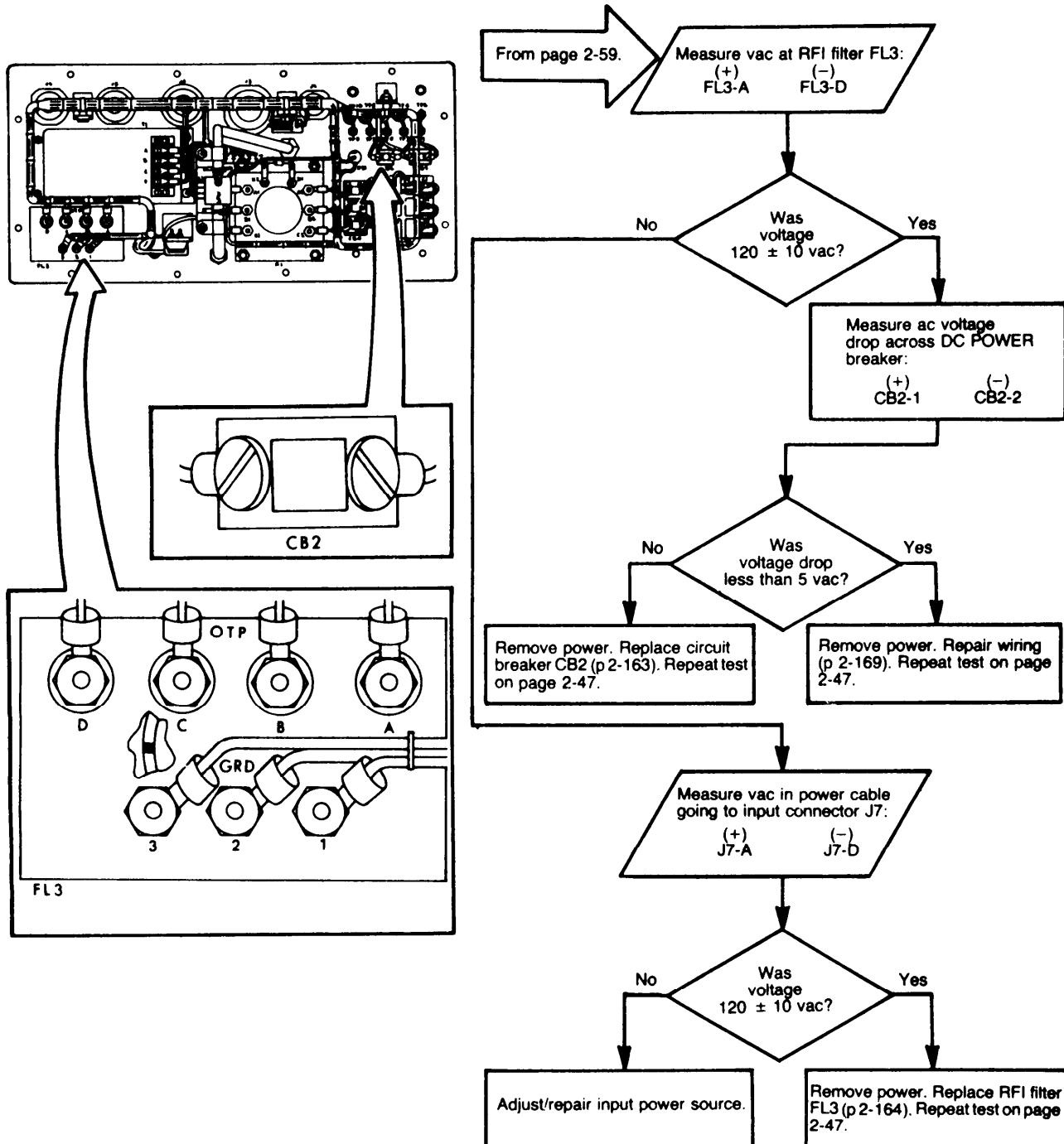
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



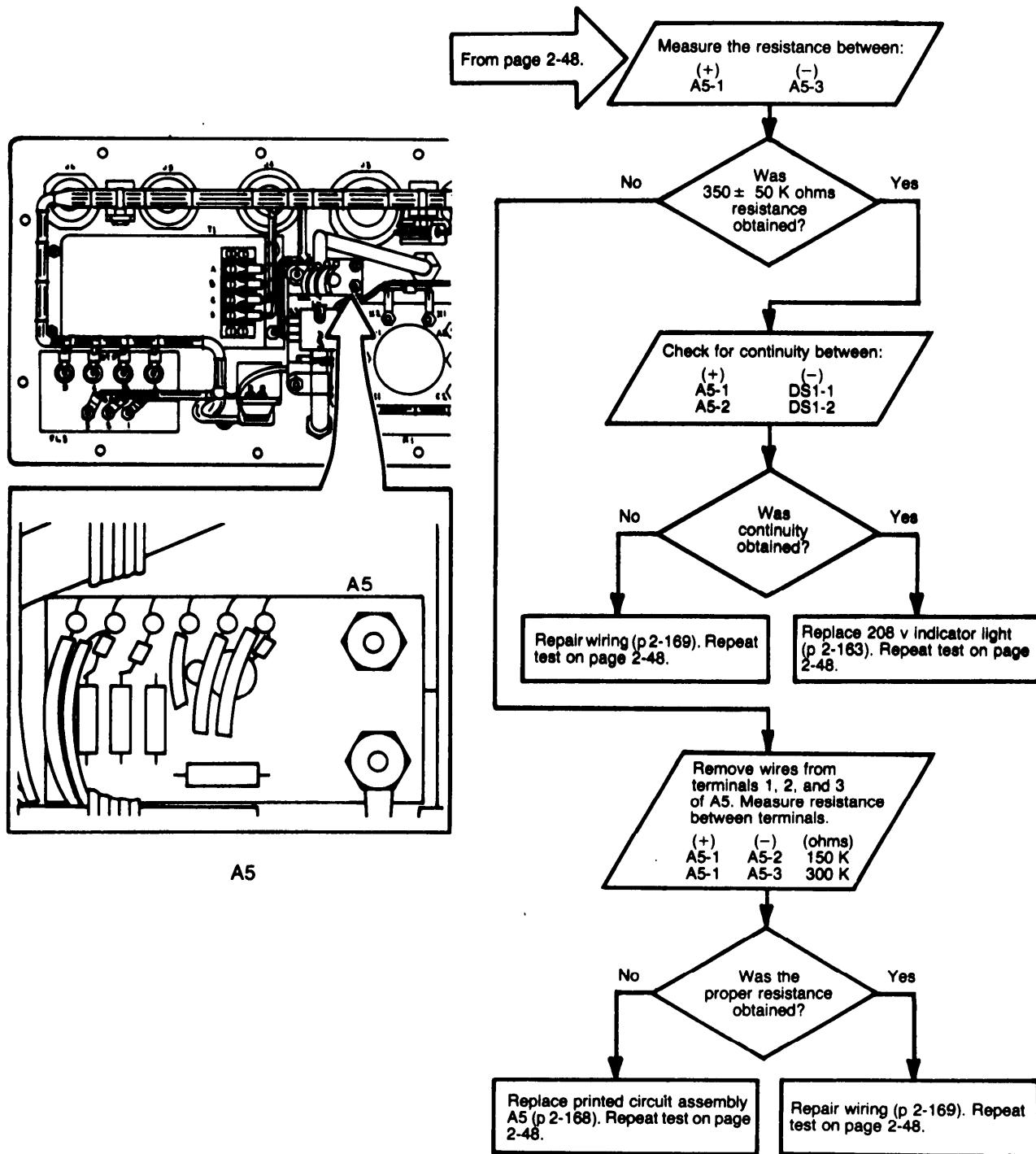
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



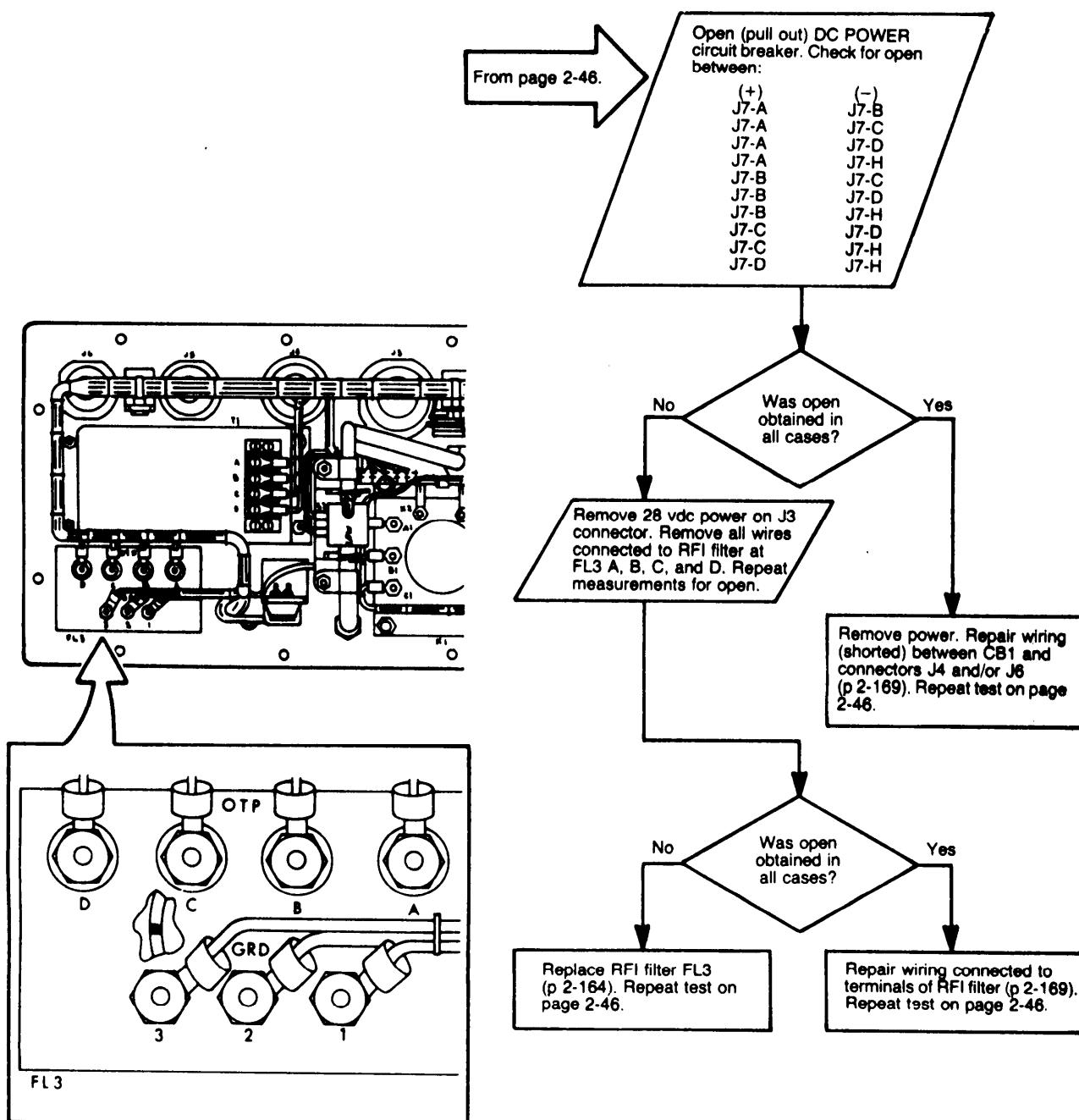
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



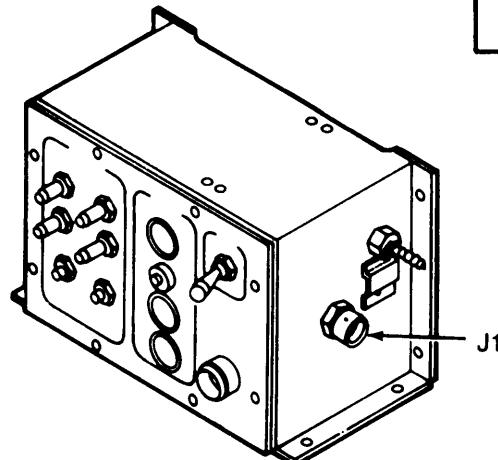
2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING PROCEDURES (Cont.).



2-6. POWER DISTRIBUTION PANEL TROUBLESHOOTING (PROCEDURES Cont.).

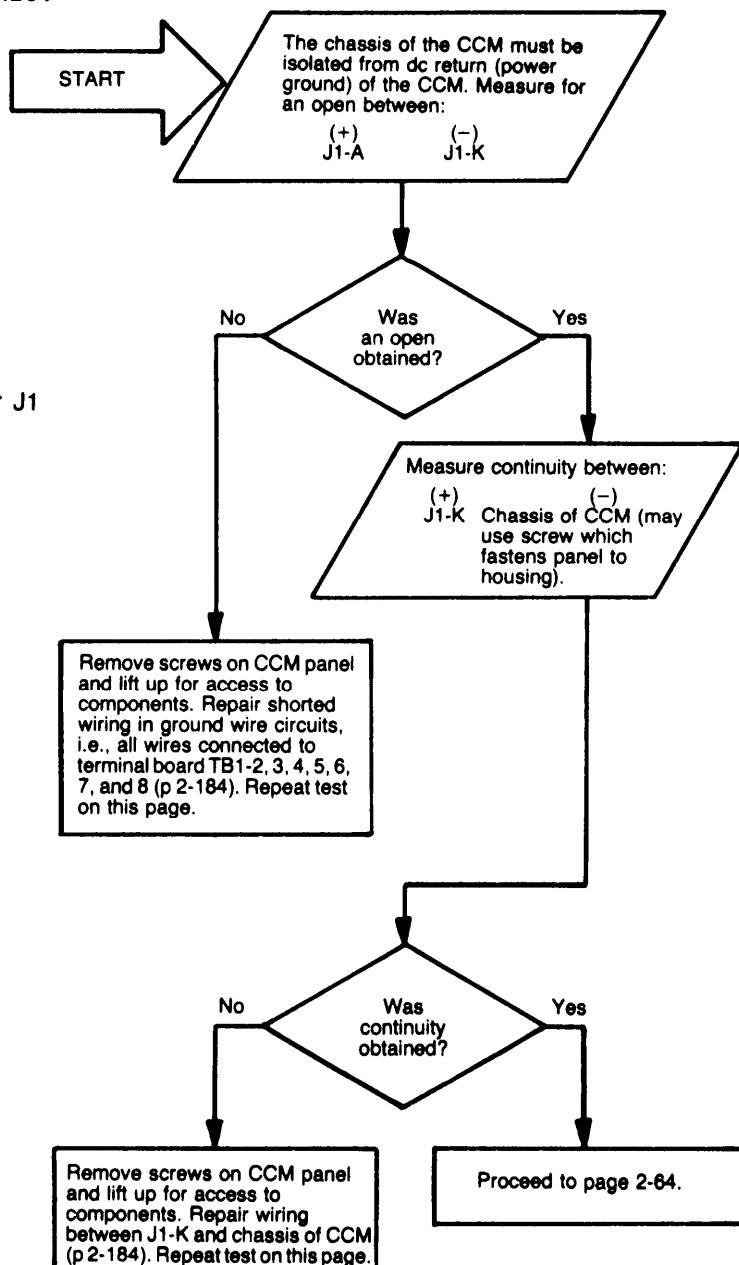
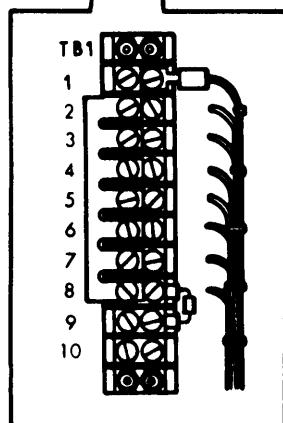
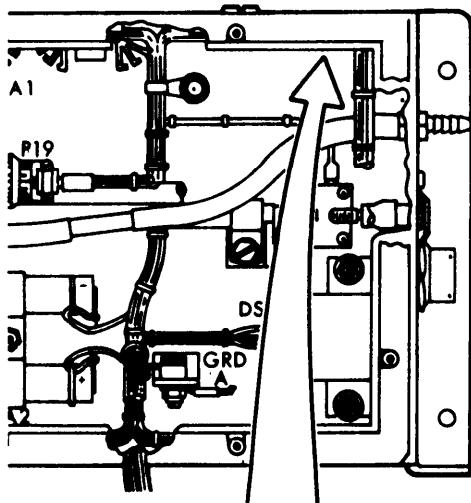


2-7. CCM TROUBLESHOOTING PROCEDURES.

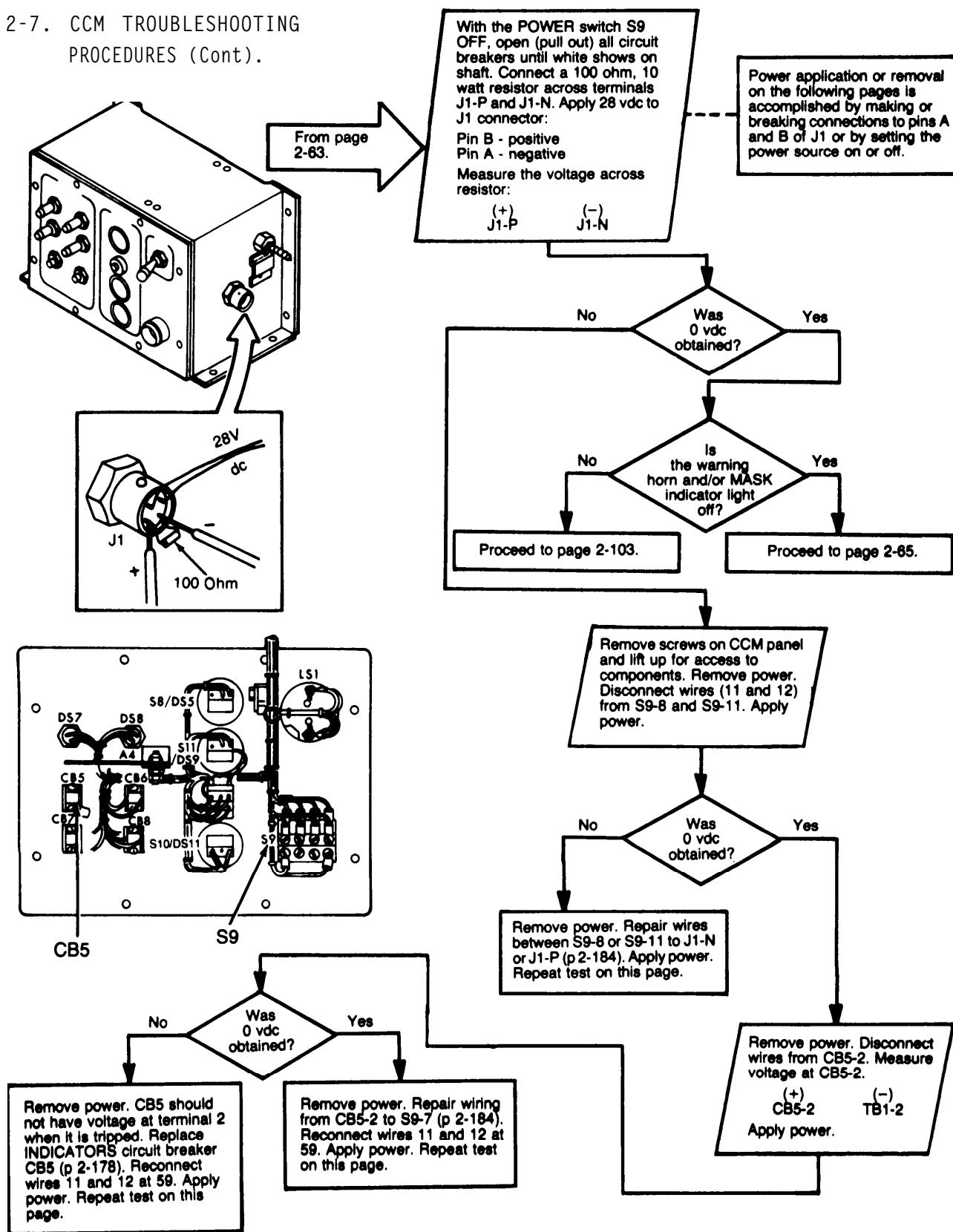


NOTE

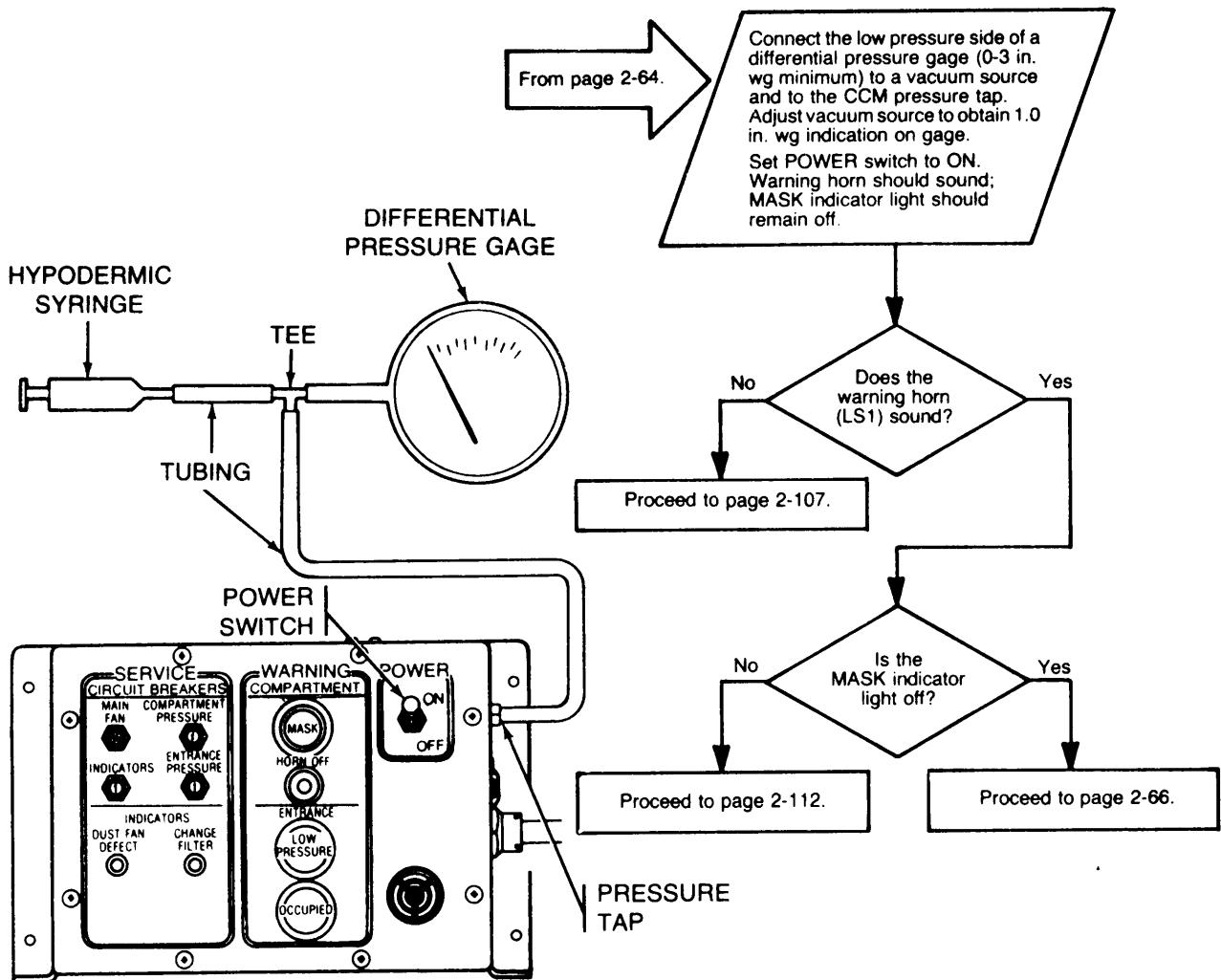
All voltages are dc and are measured with respect to dc return (TB1-2 thru 8) unless otherwise specified.



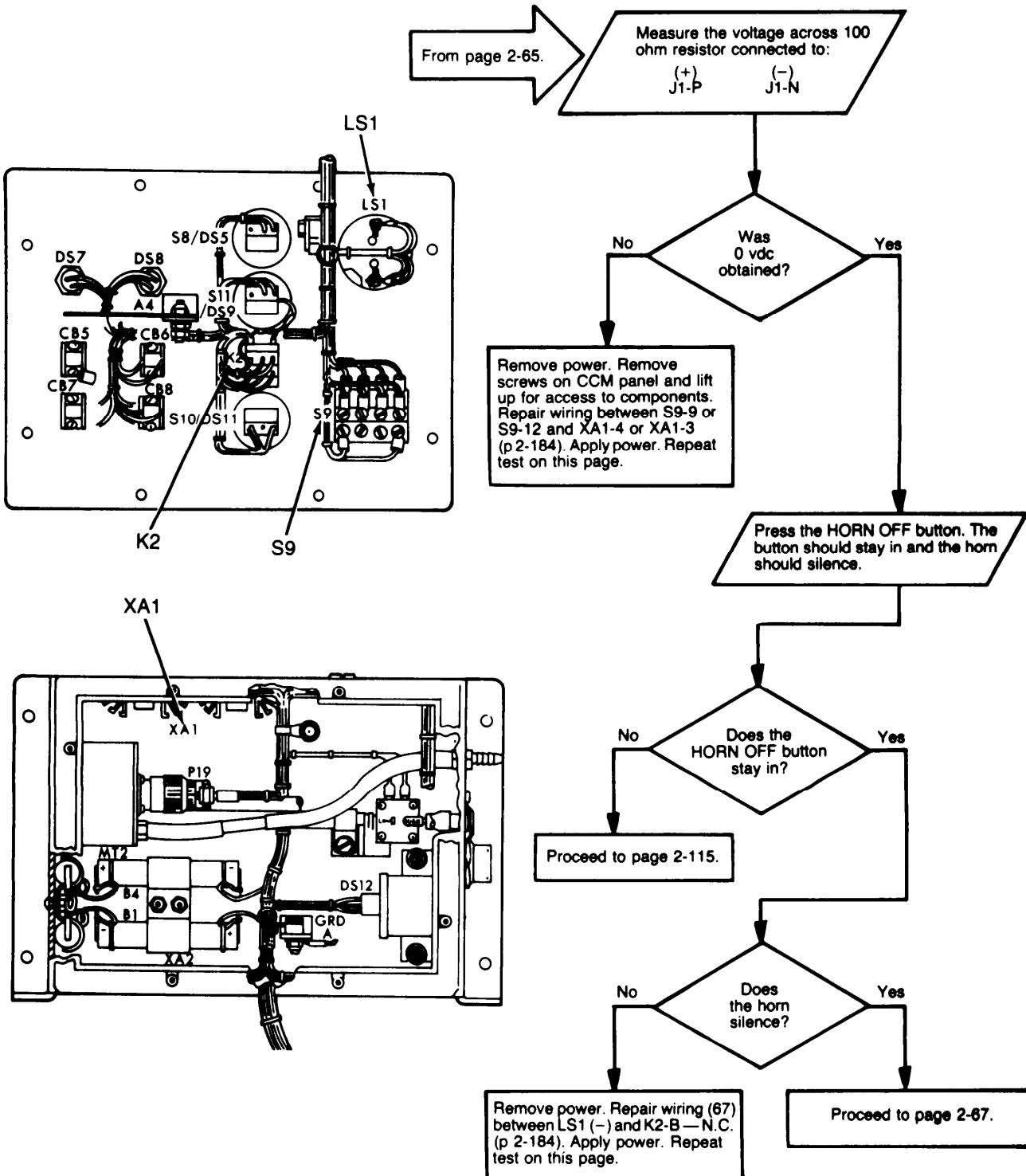
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



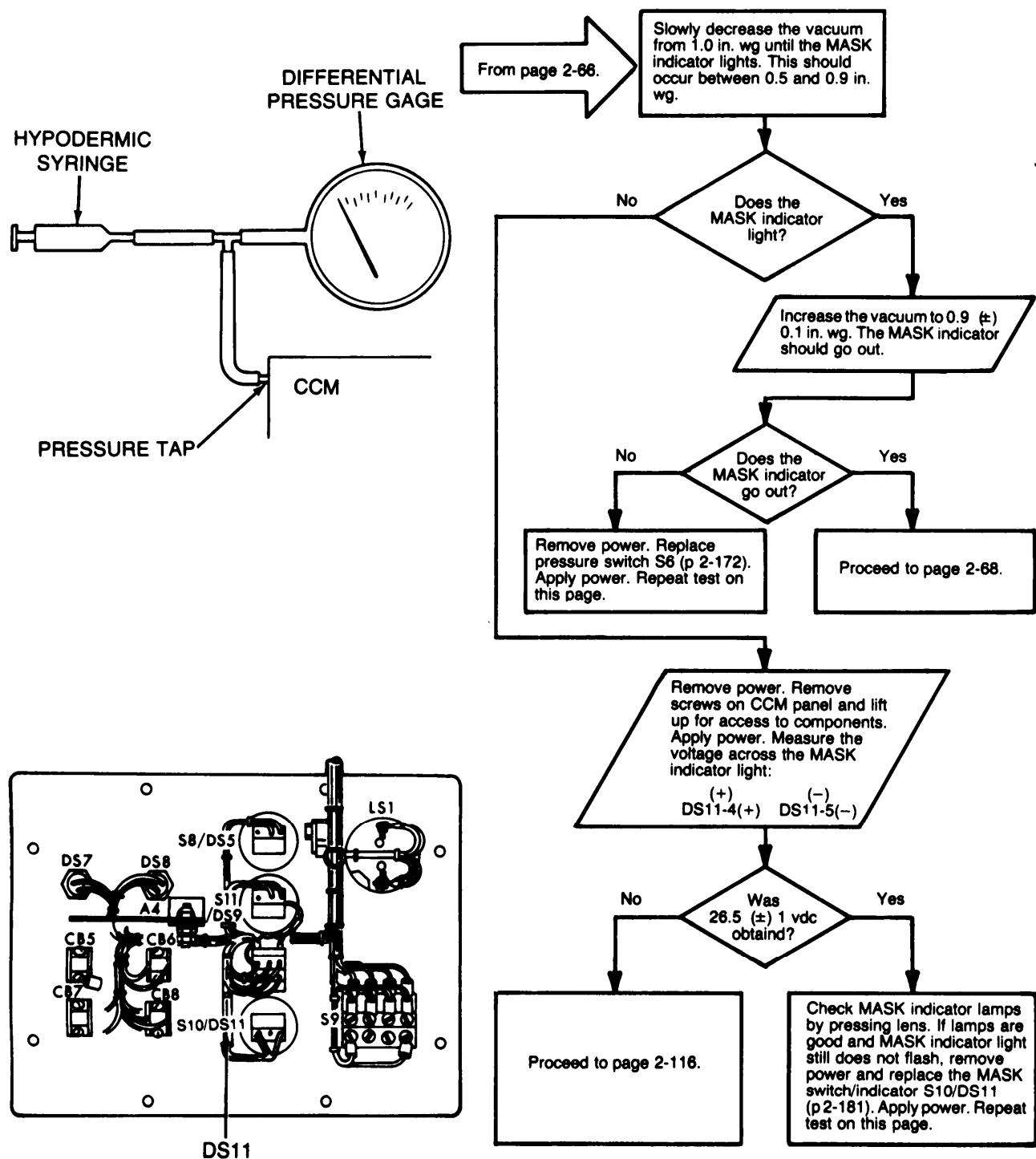
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



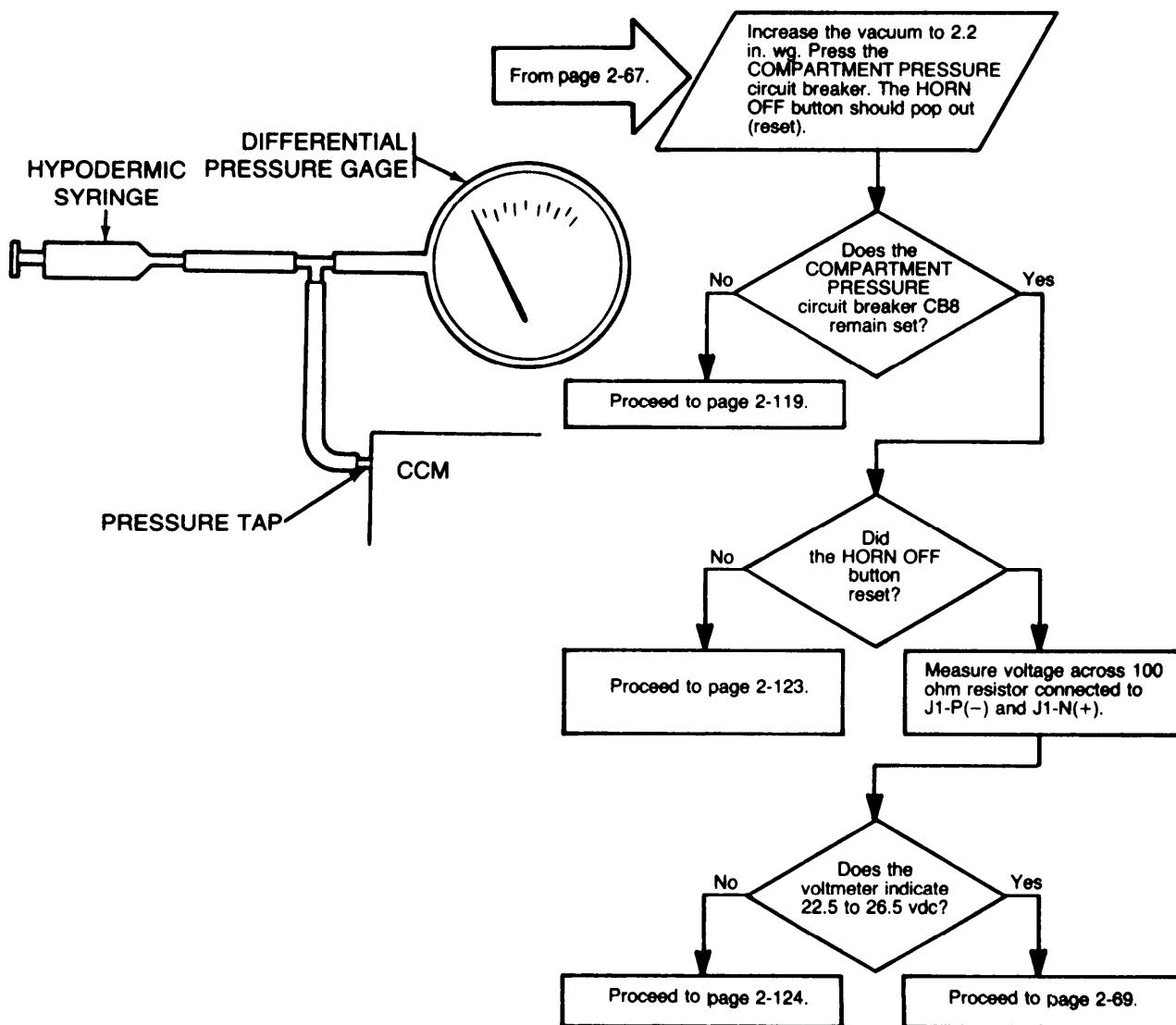
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



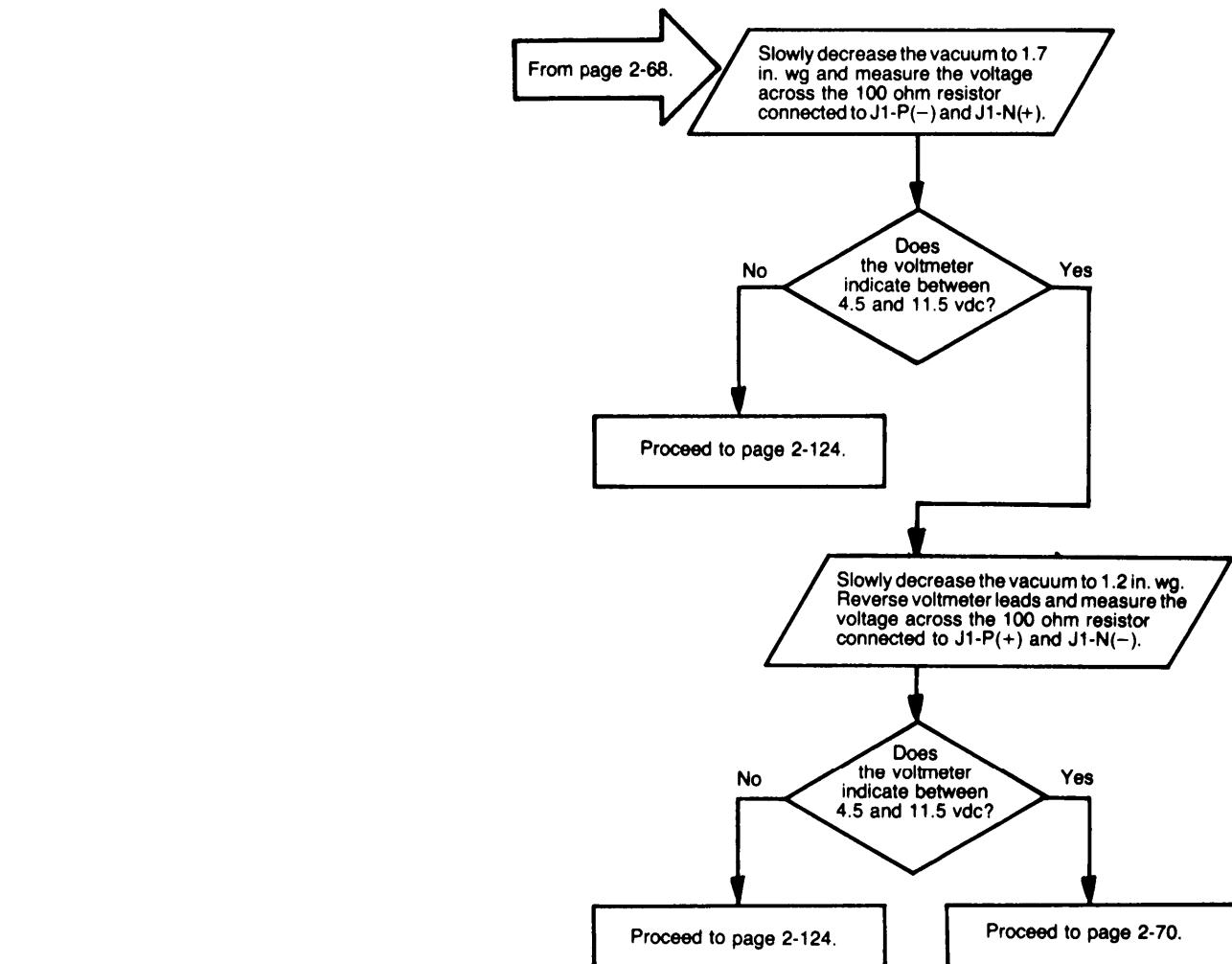
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



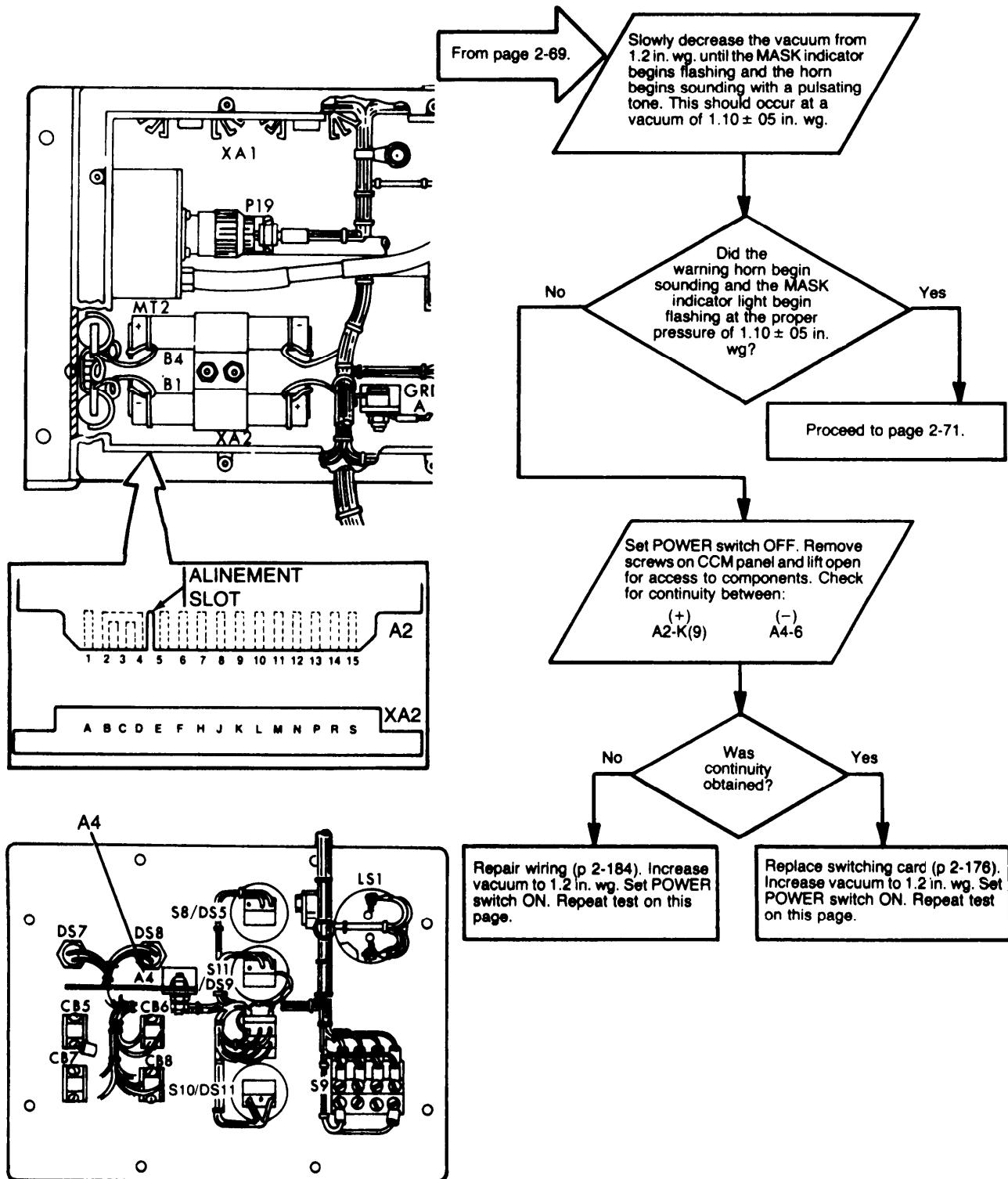
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont).



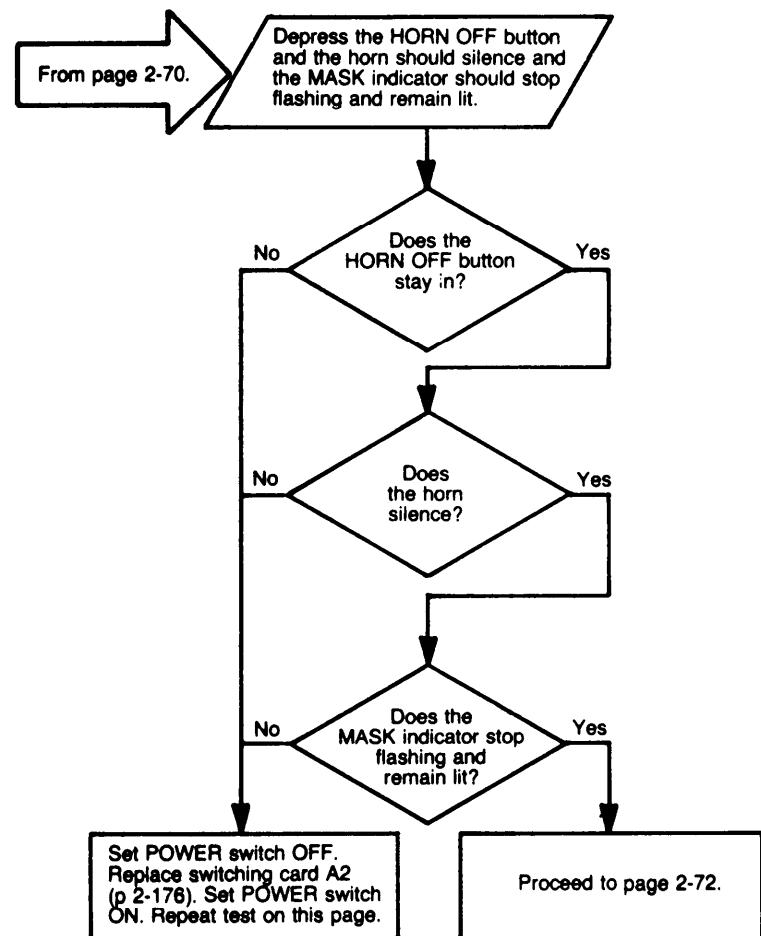
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



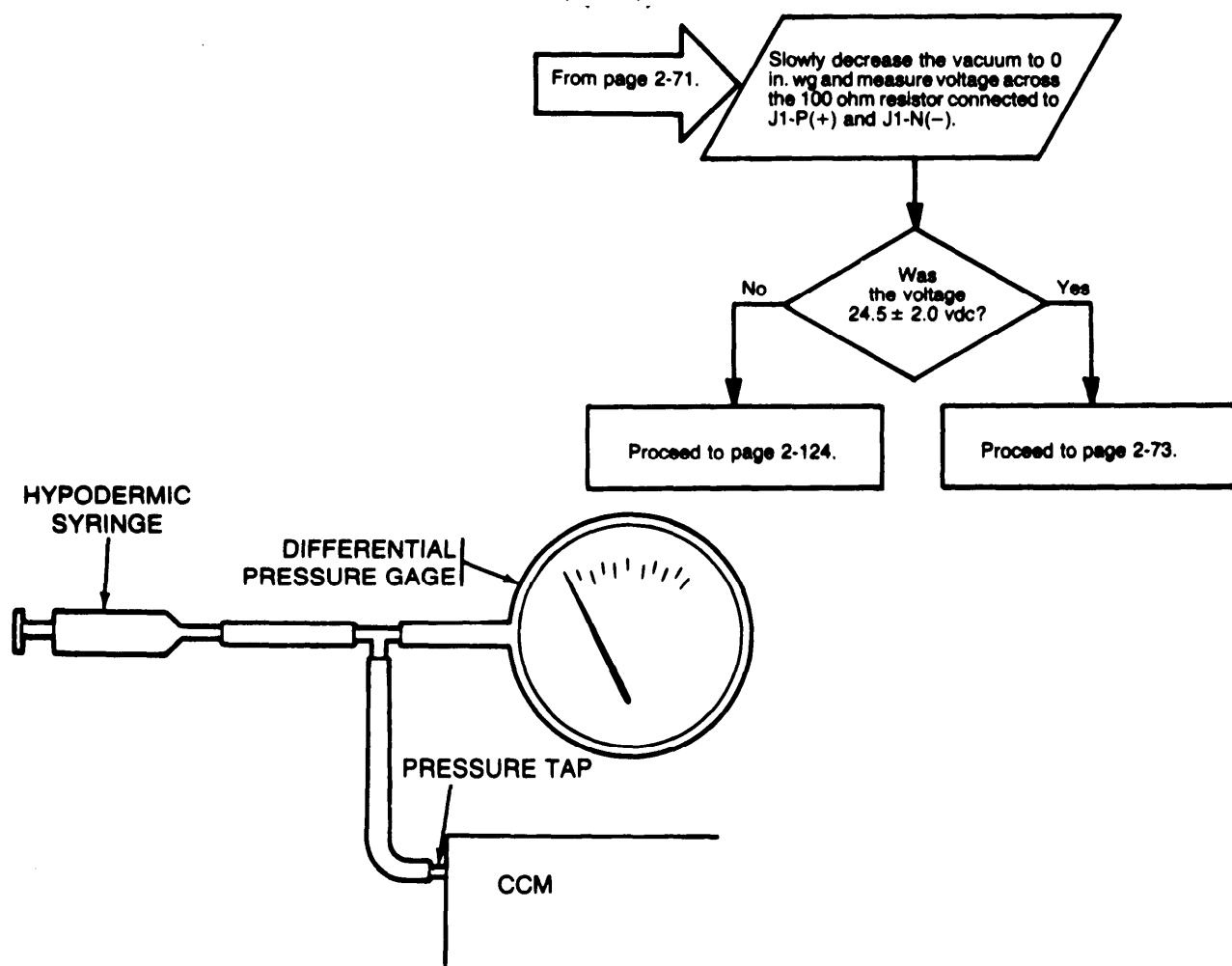
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



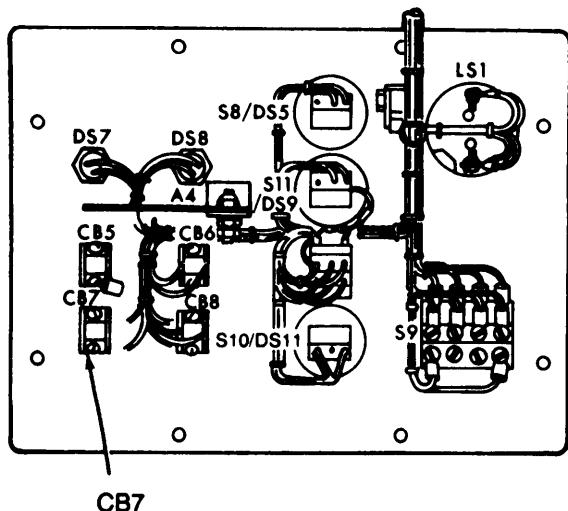
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



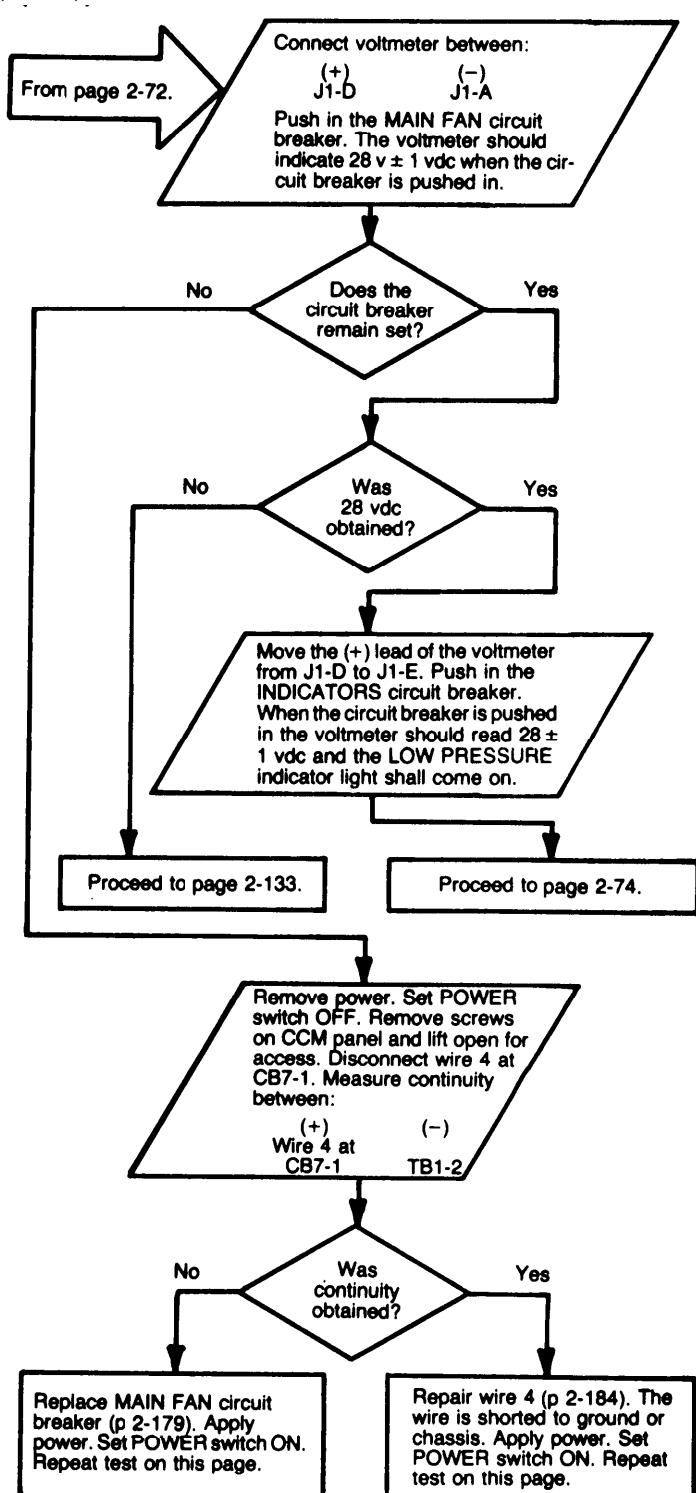
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).

NOTE

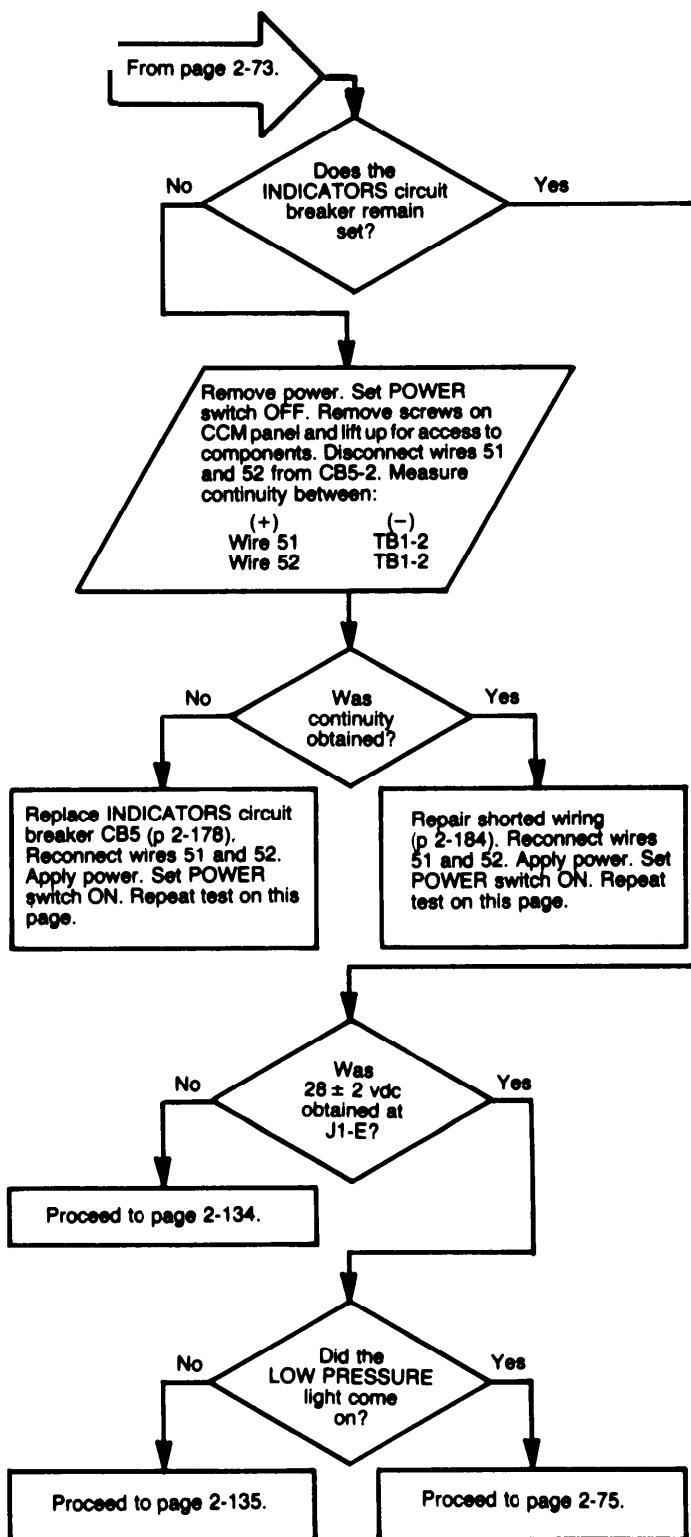
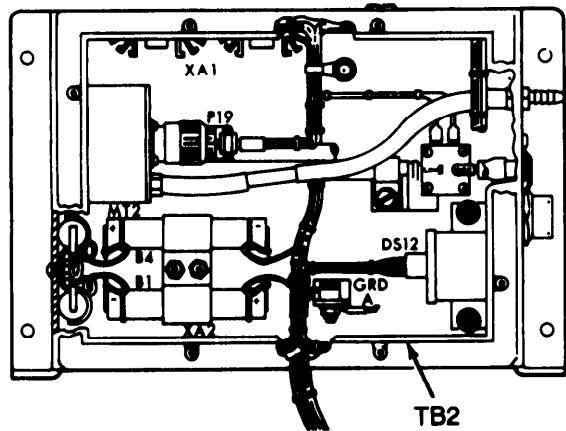
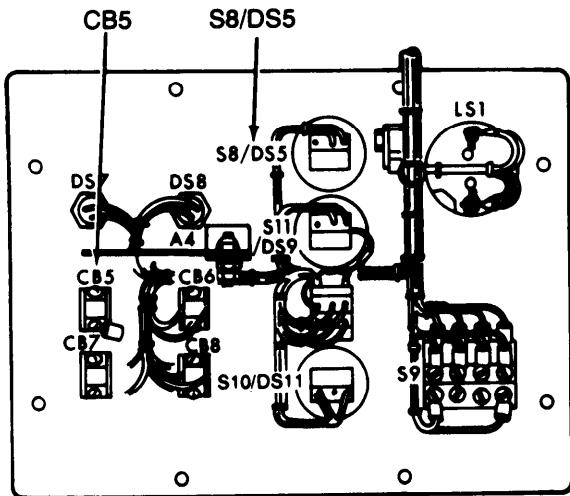
Reapplying power on the following pages will probably cause the horn to sound. Press the HORN OFF button to silence horn.



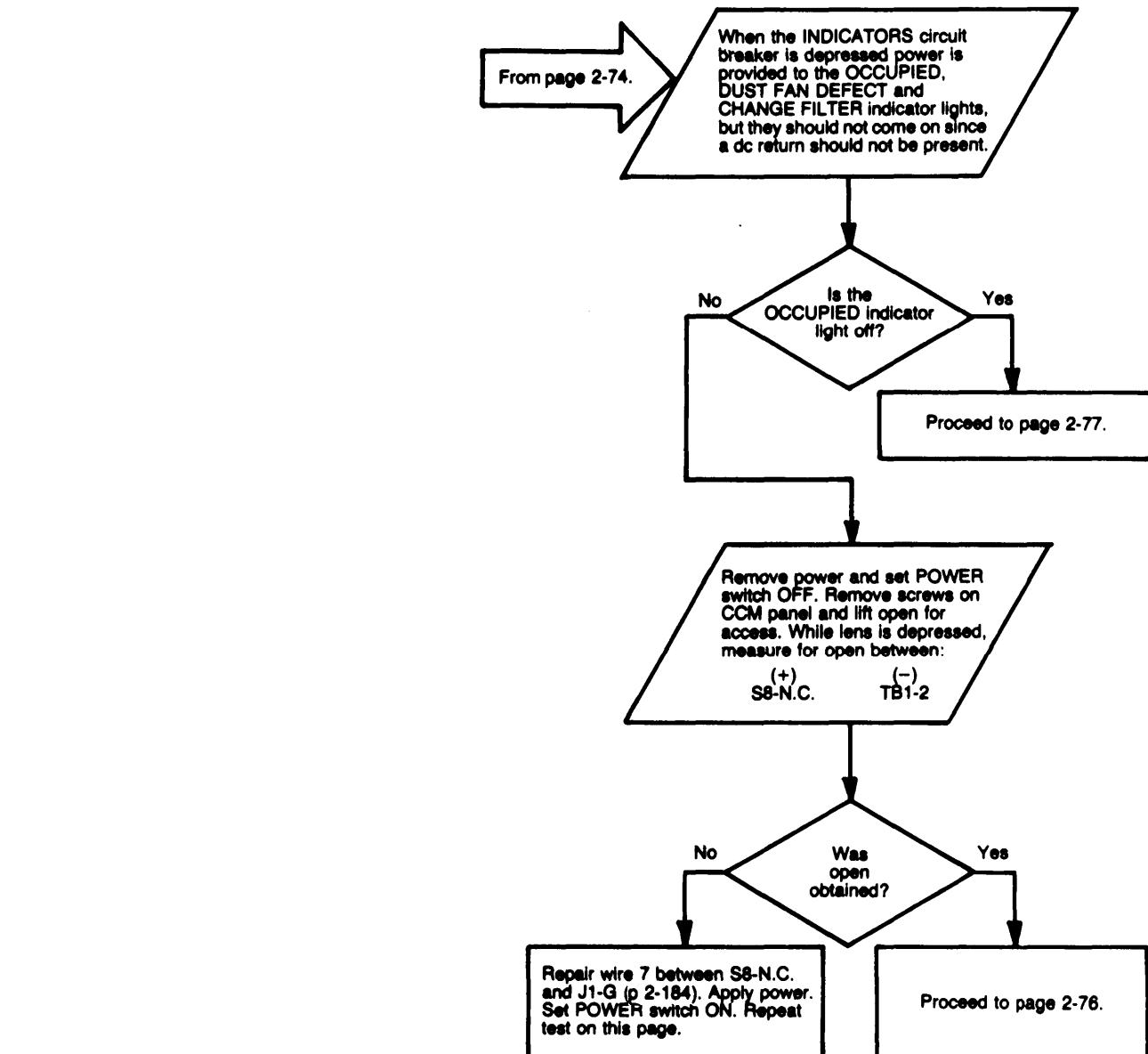
CB7



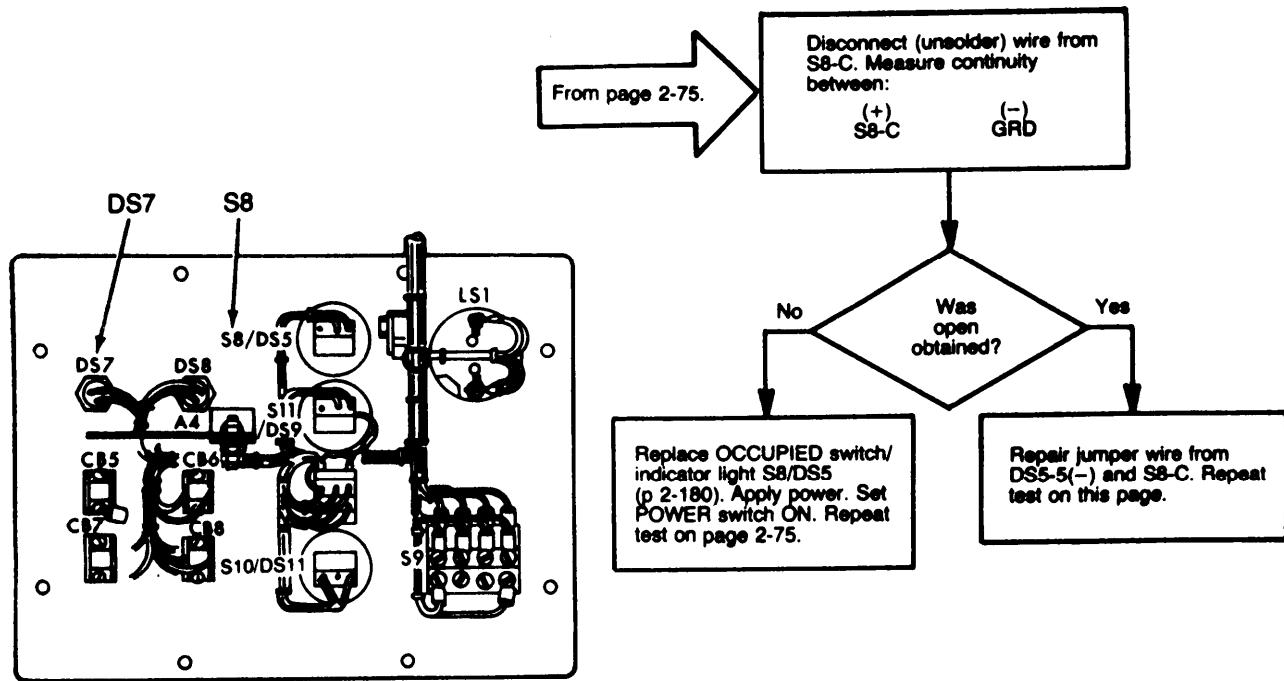
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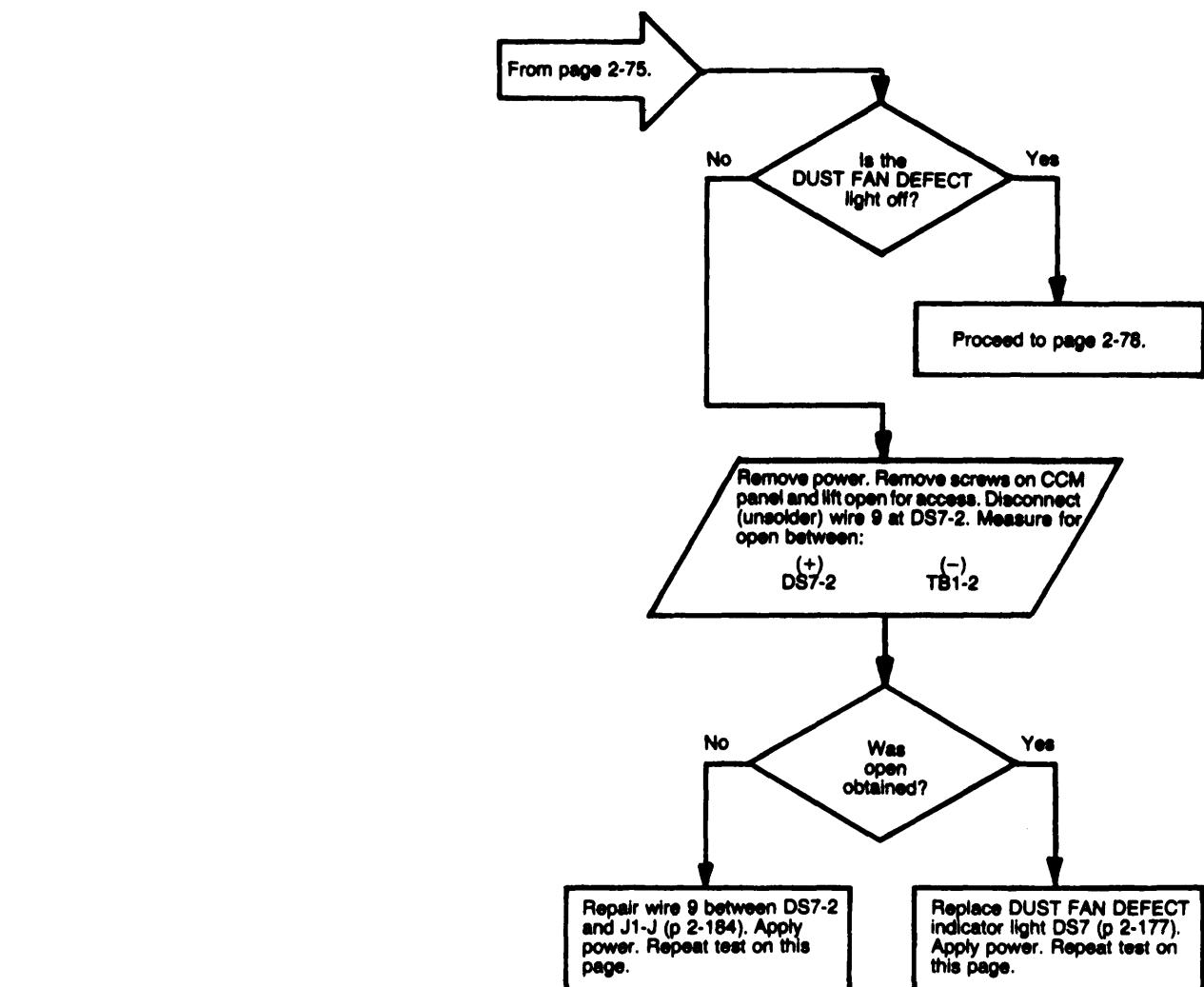
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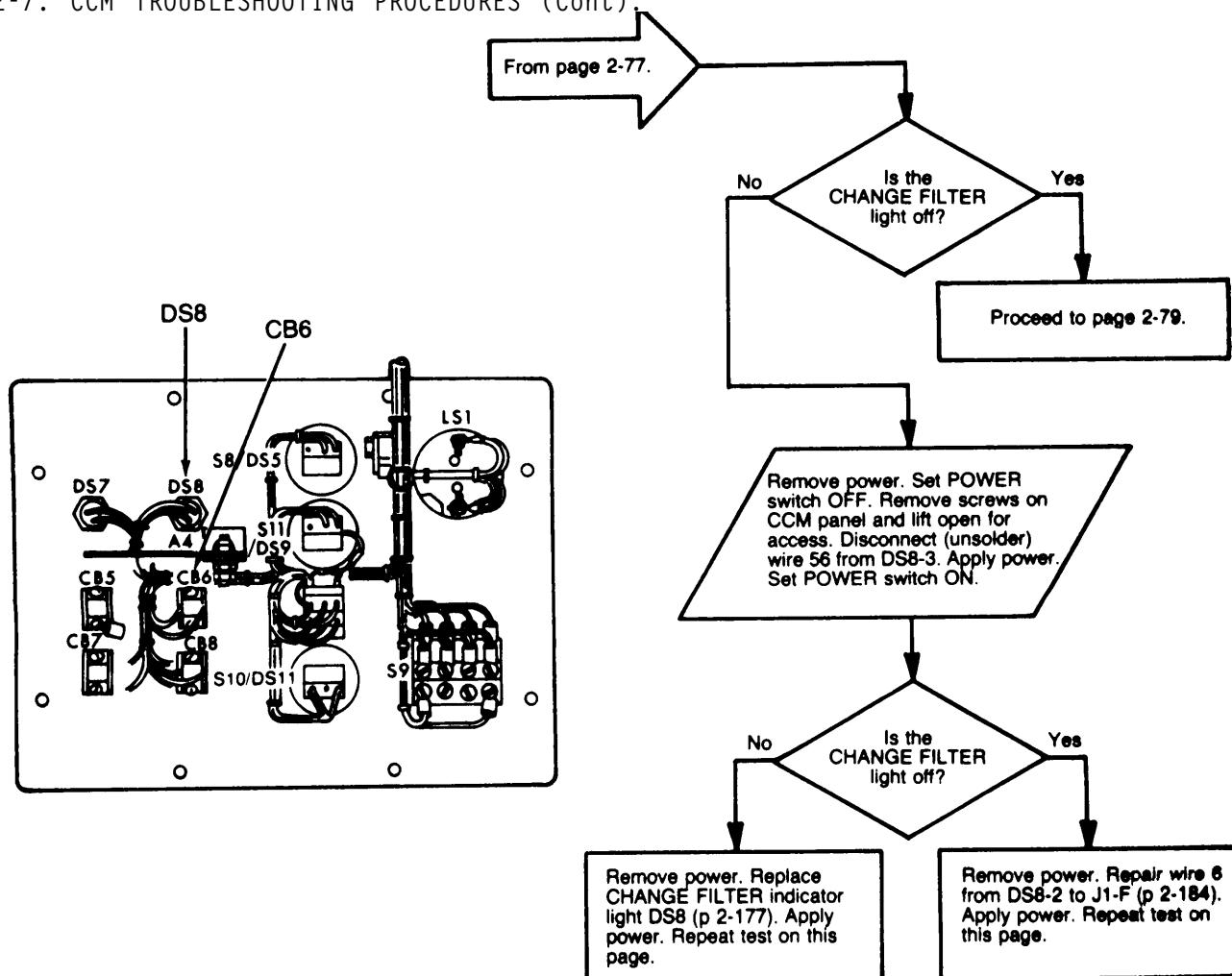
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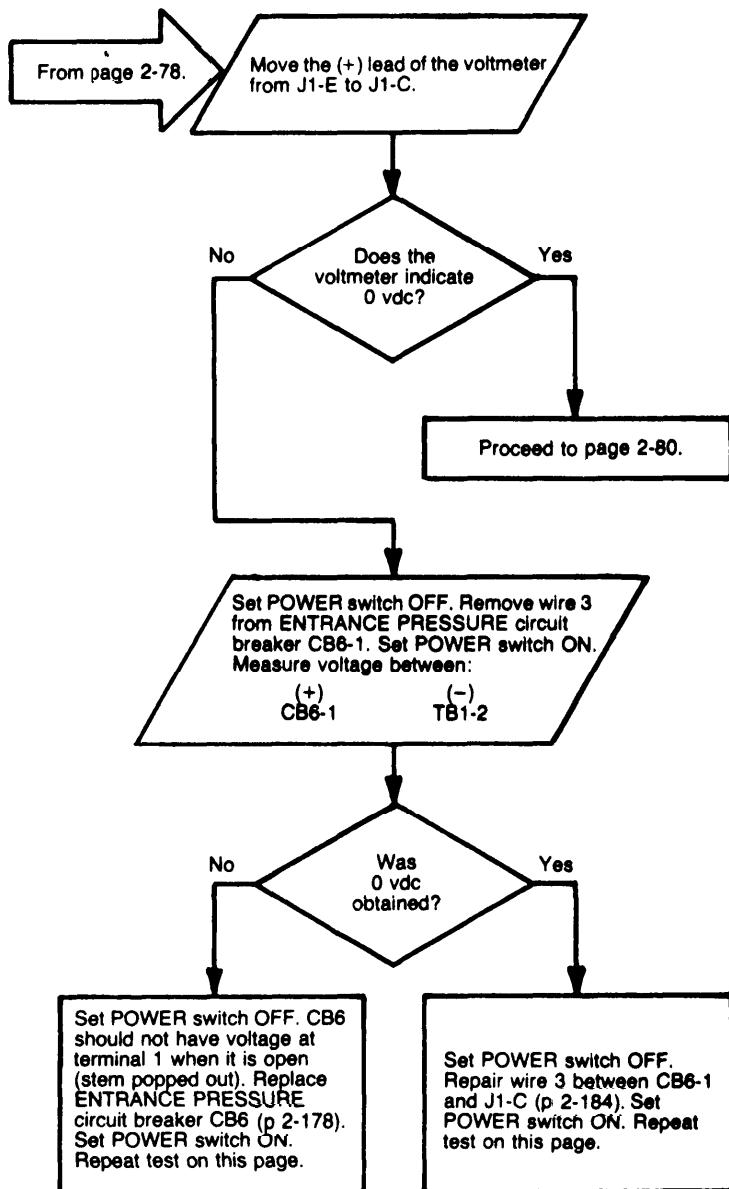
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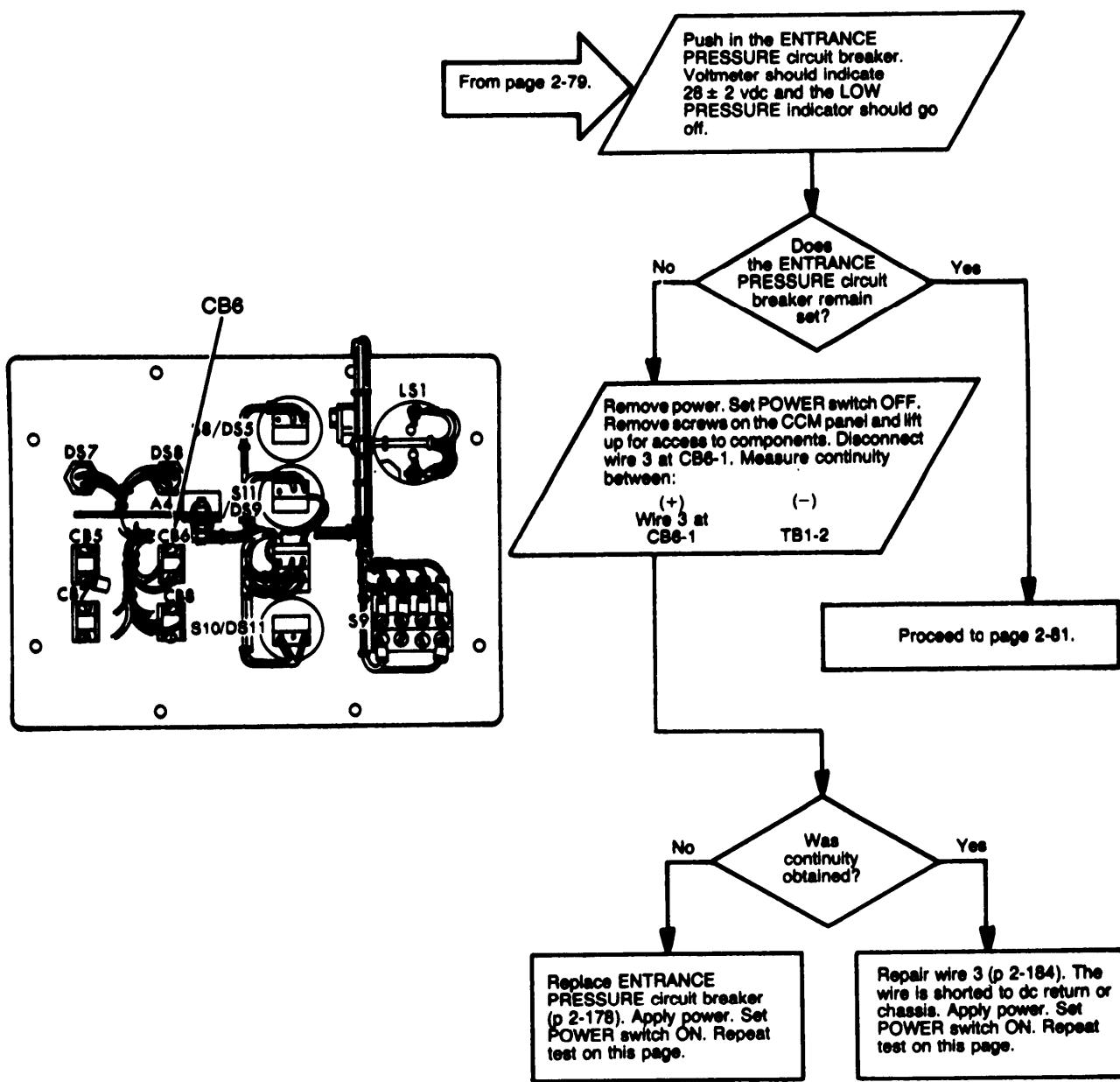
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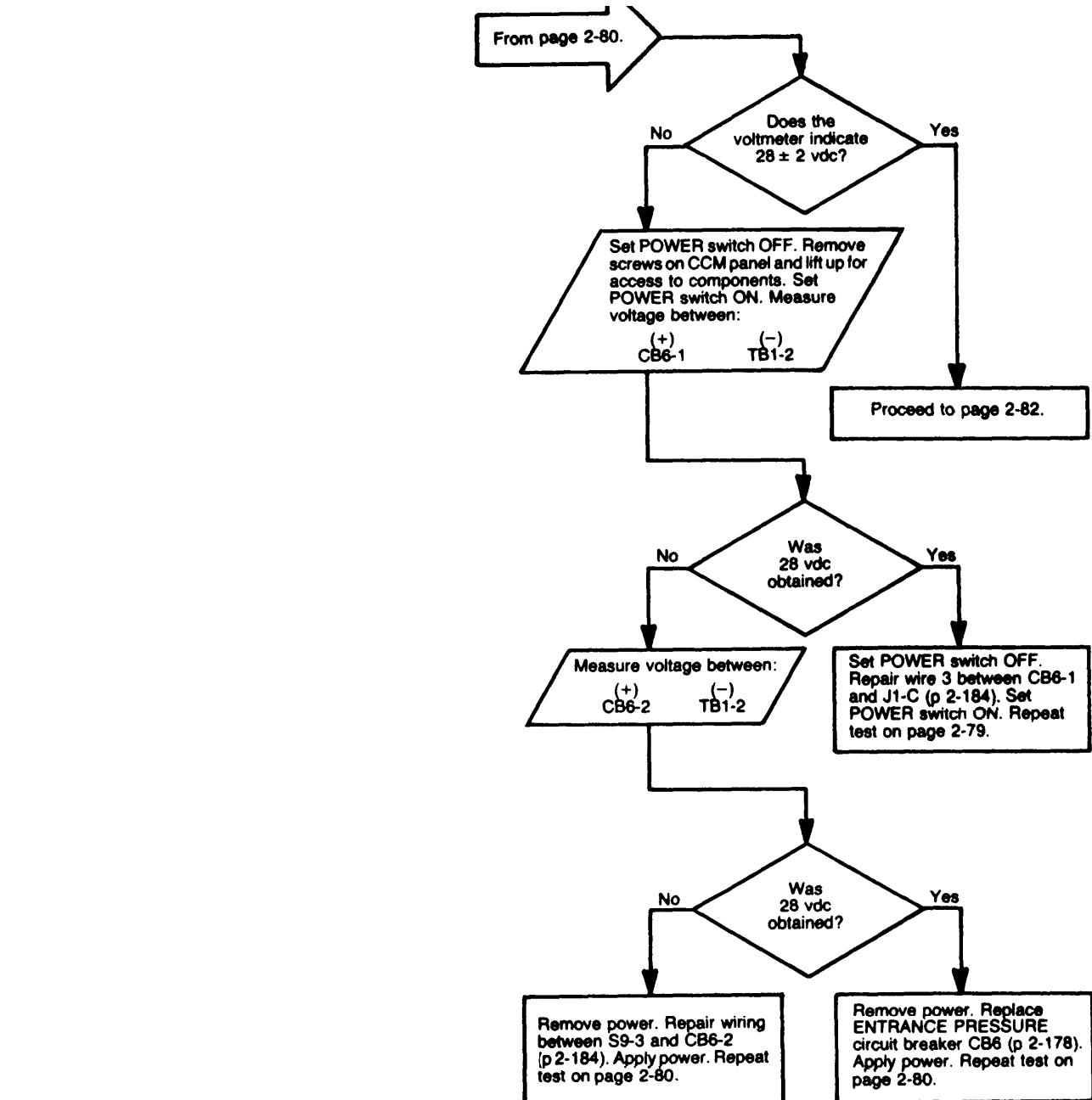
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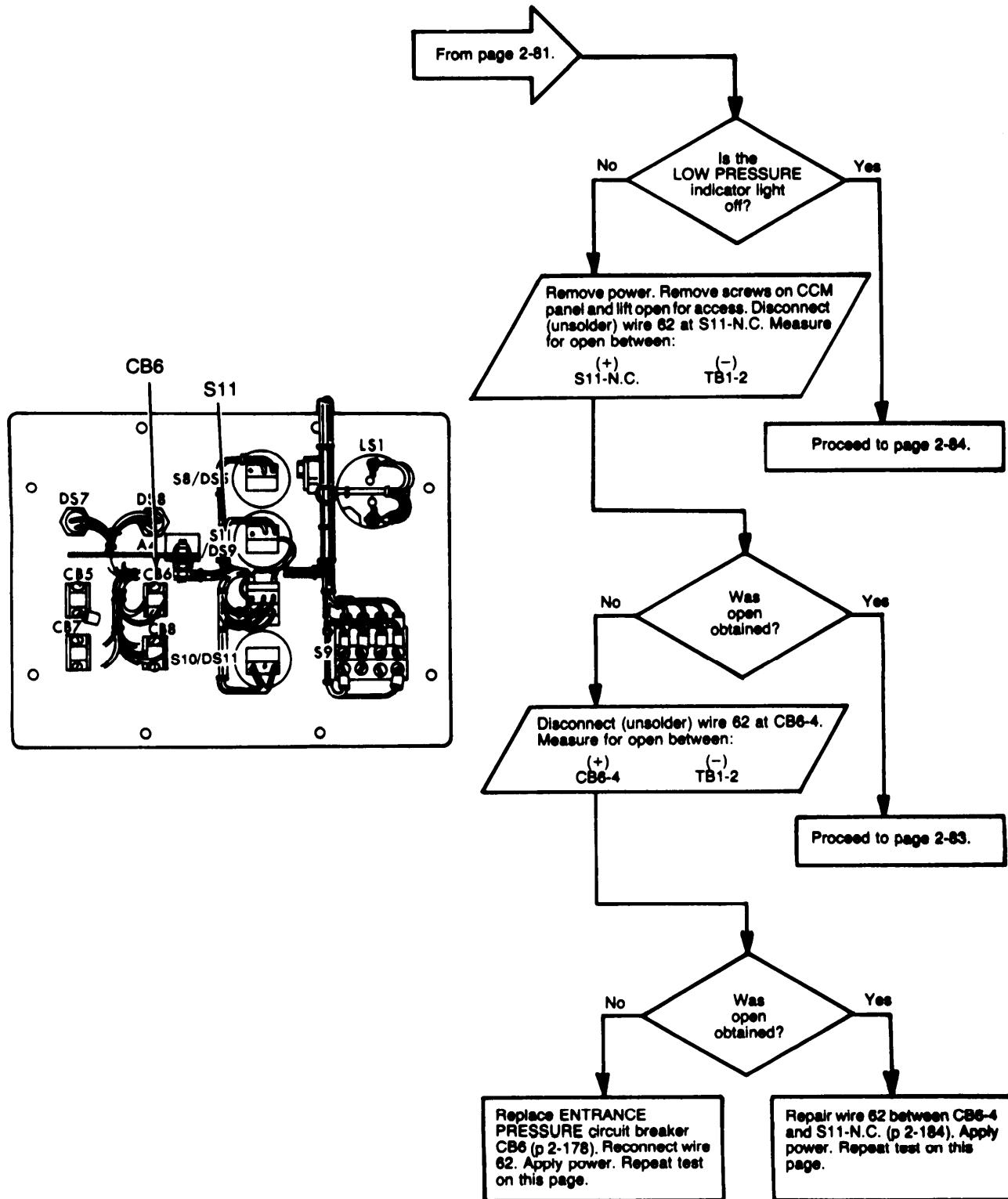
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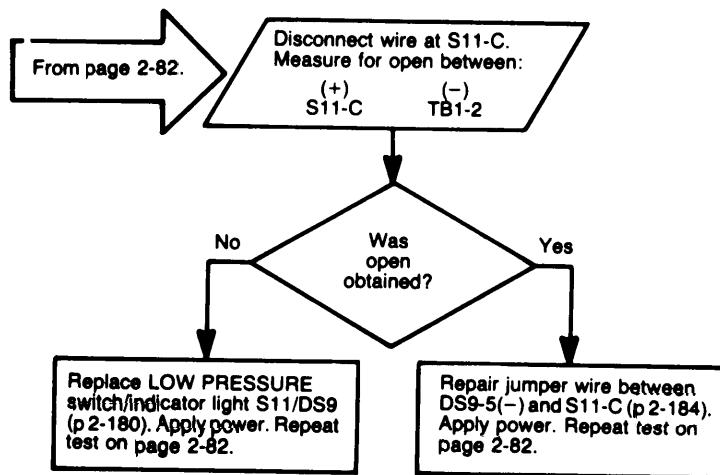
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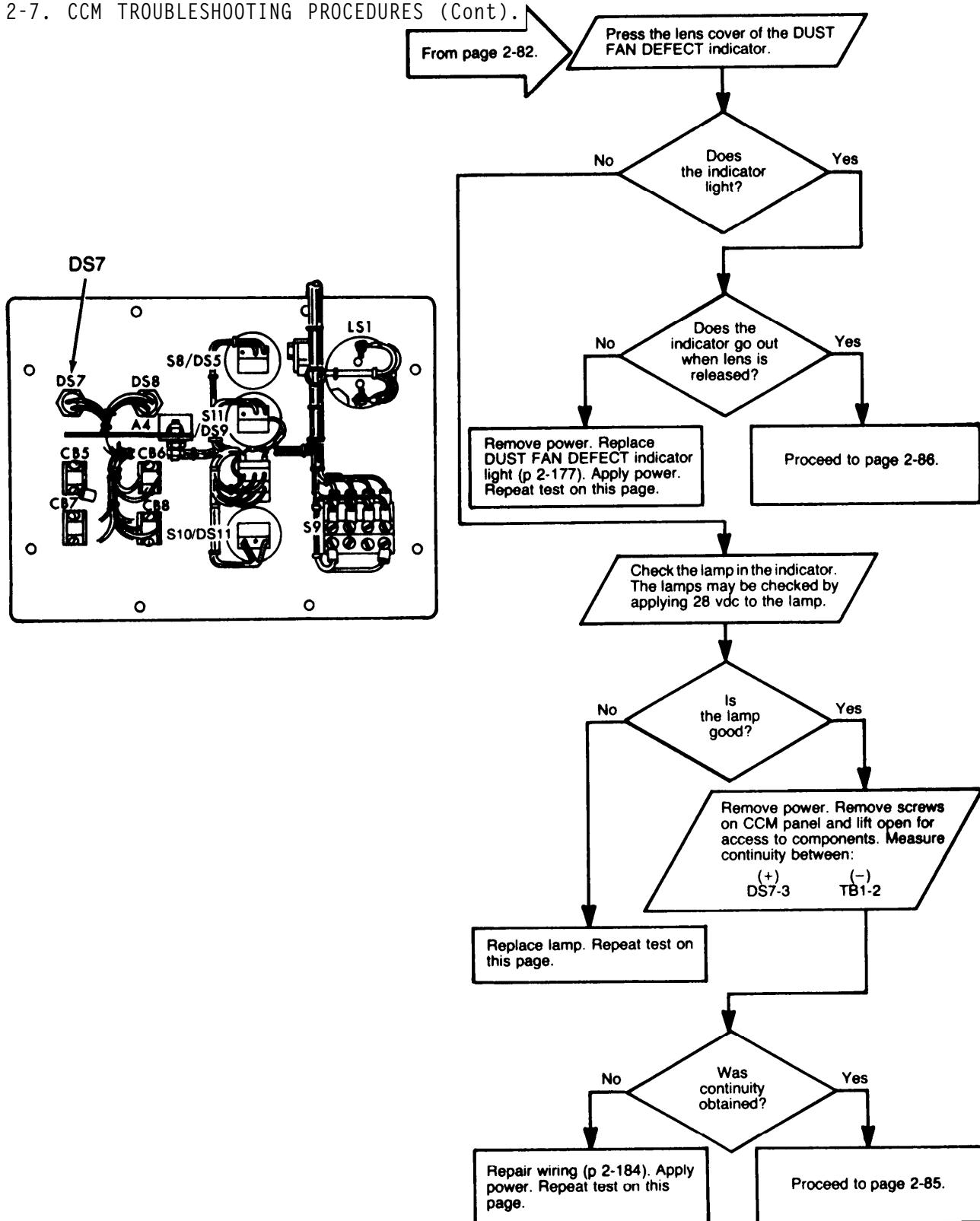
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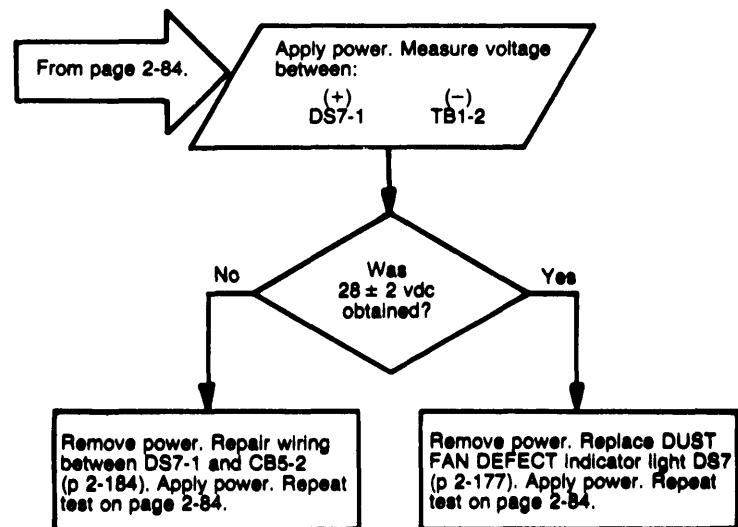
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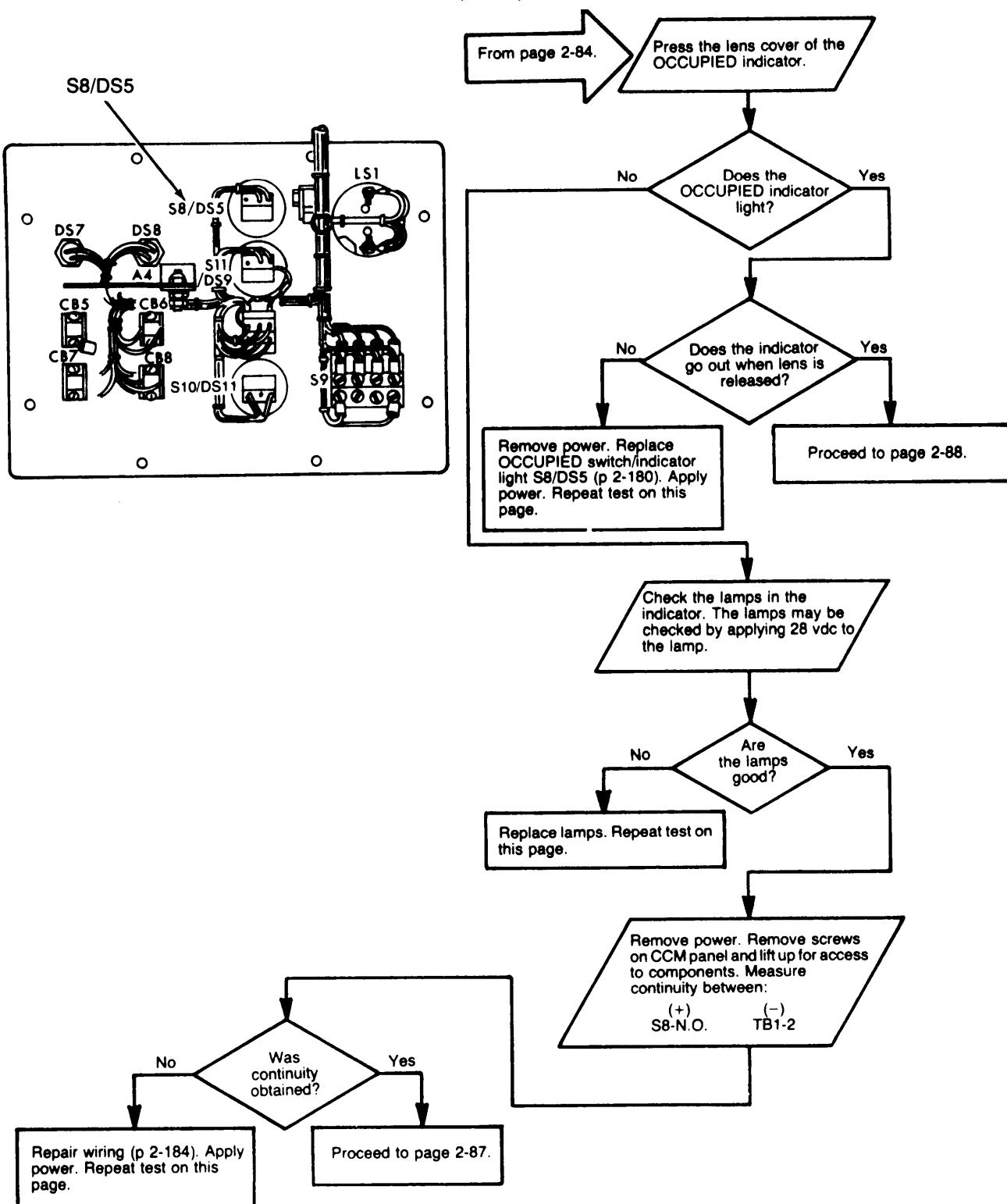
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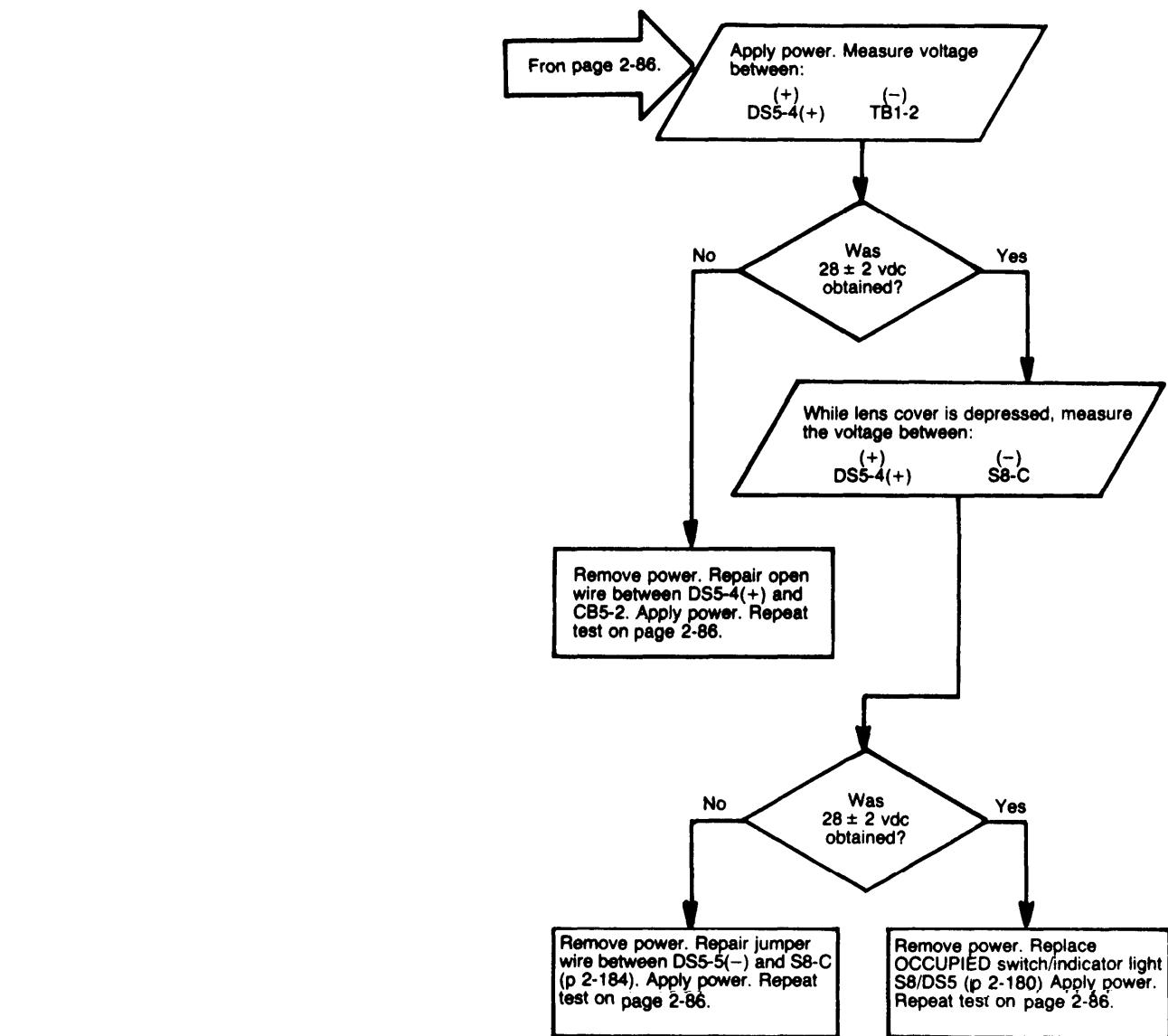
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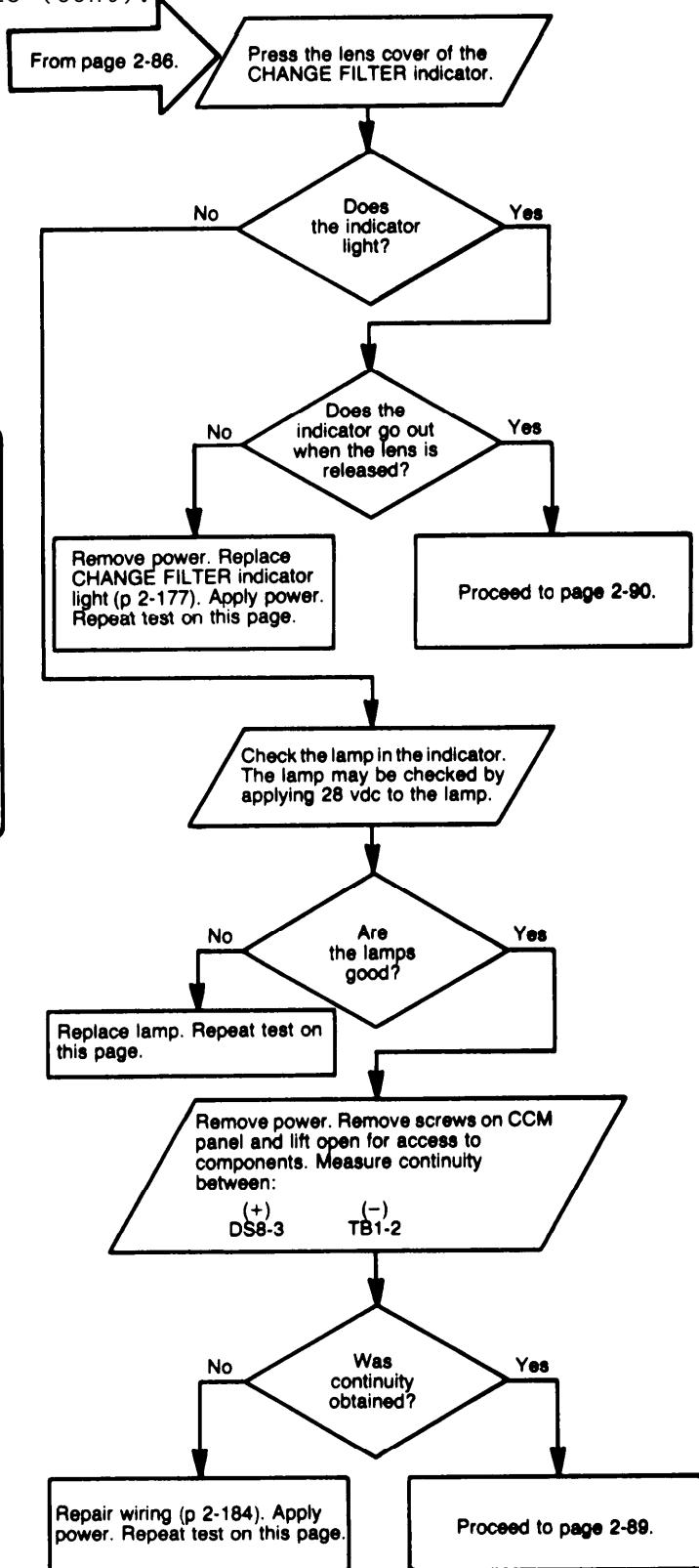
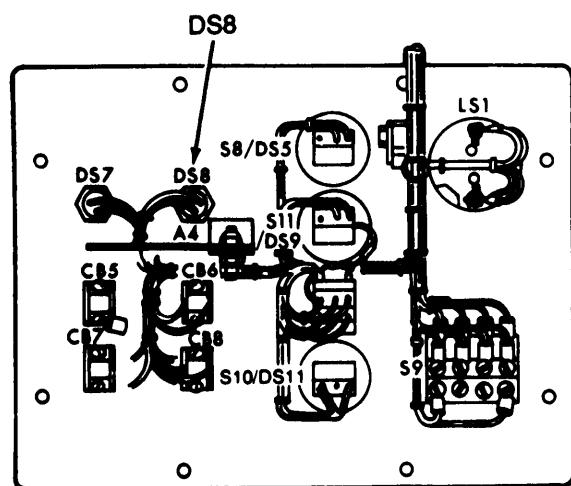
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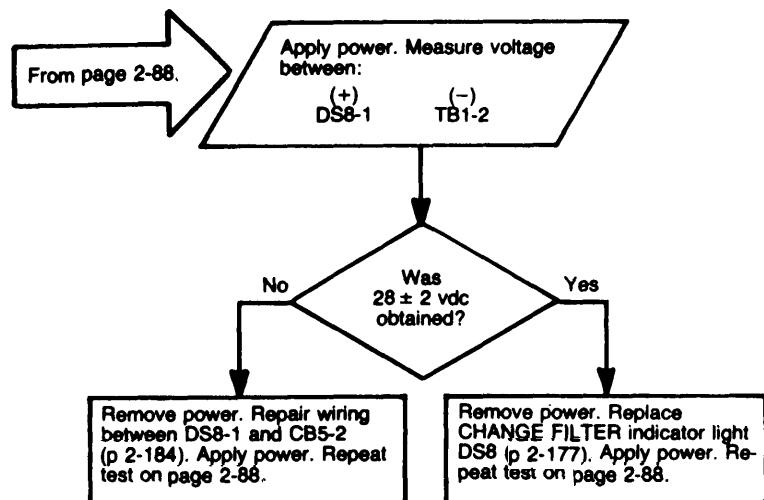
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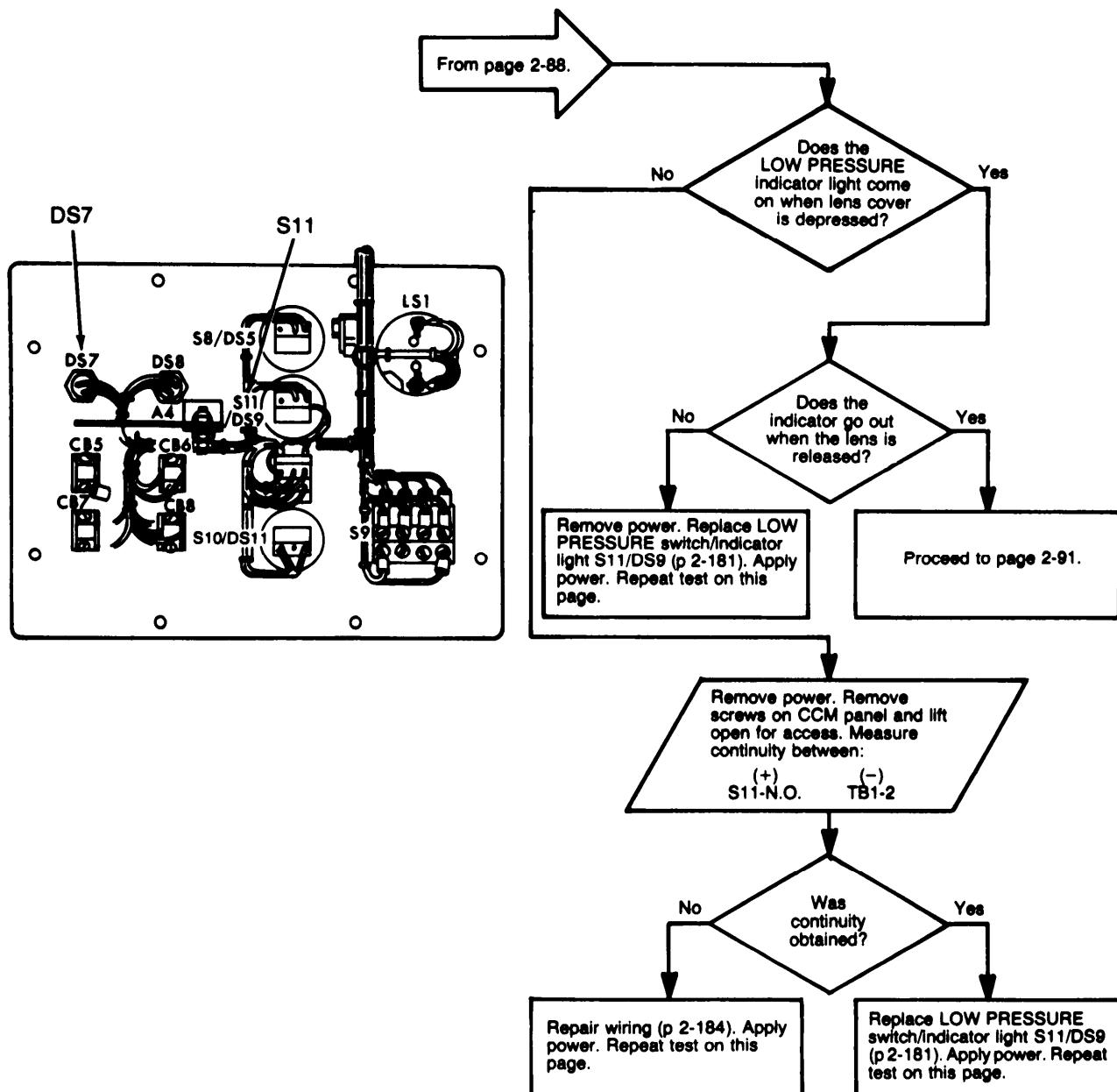
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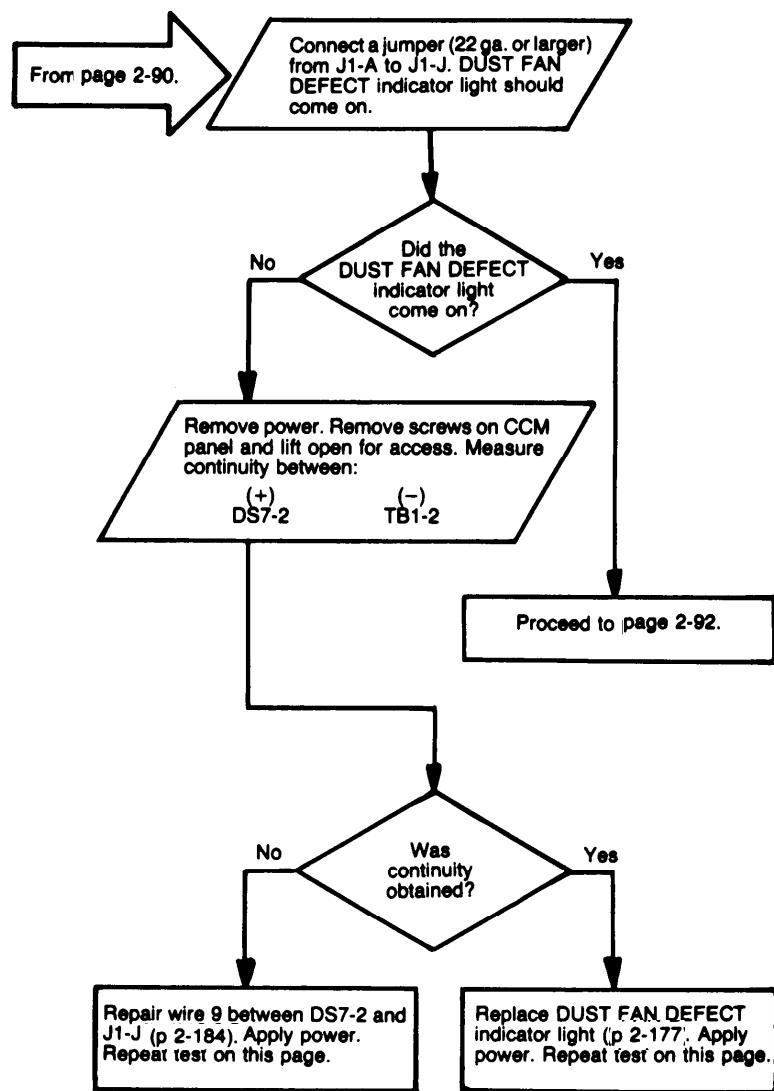
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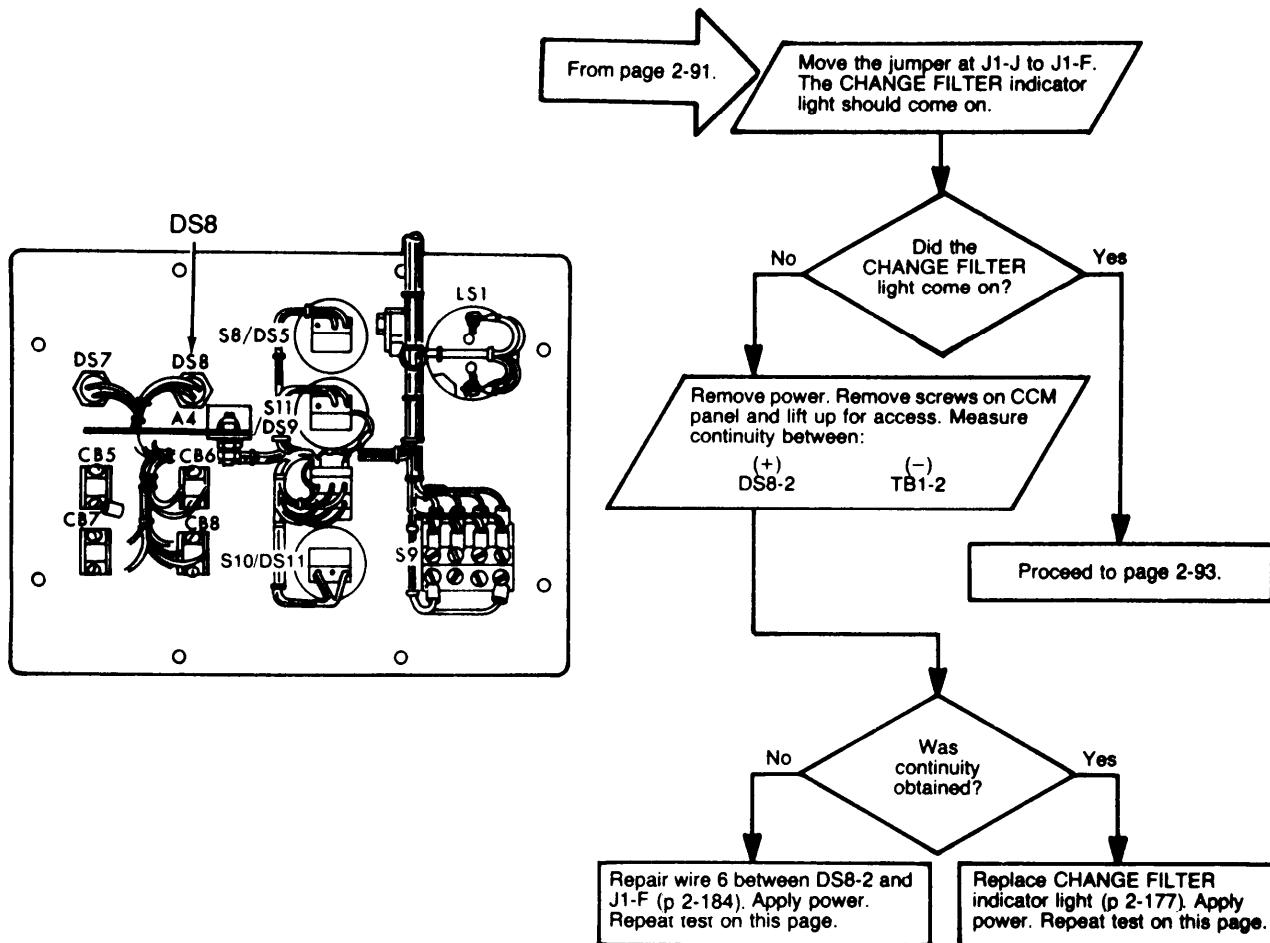
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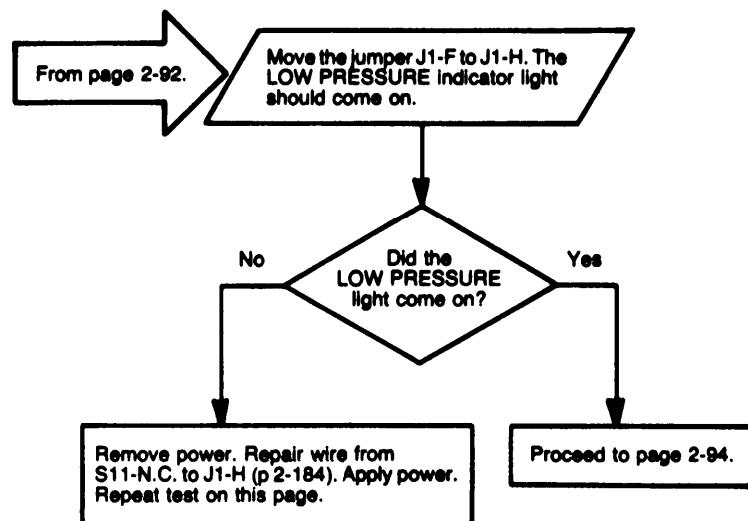
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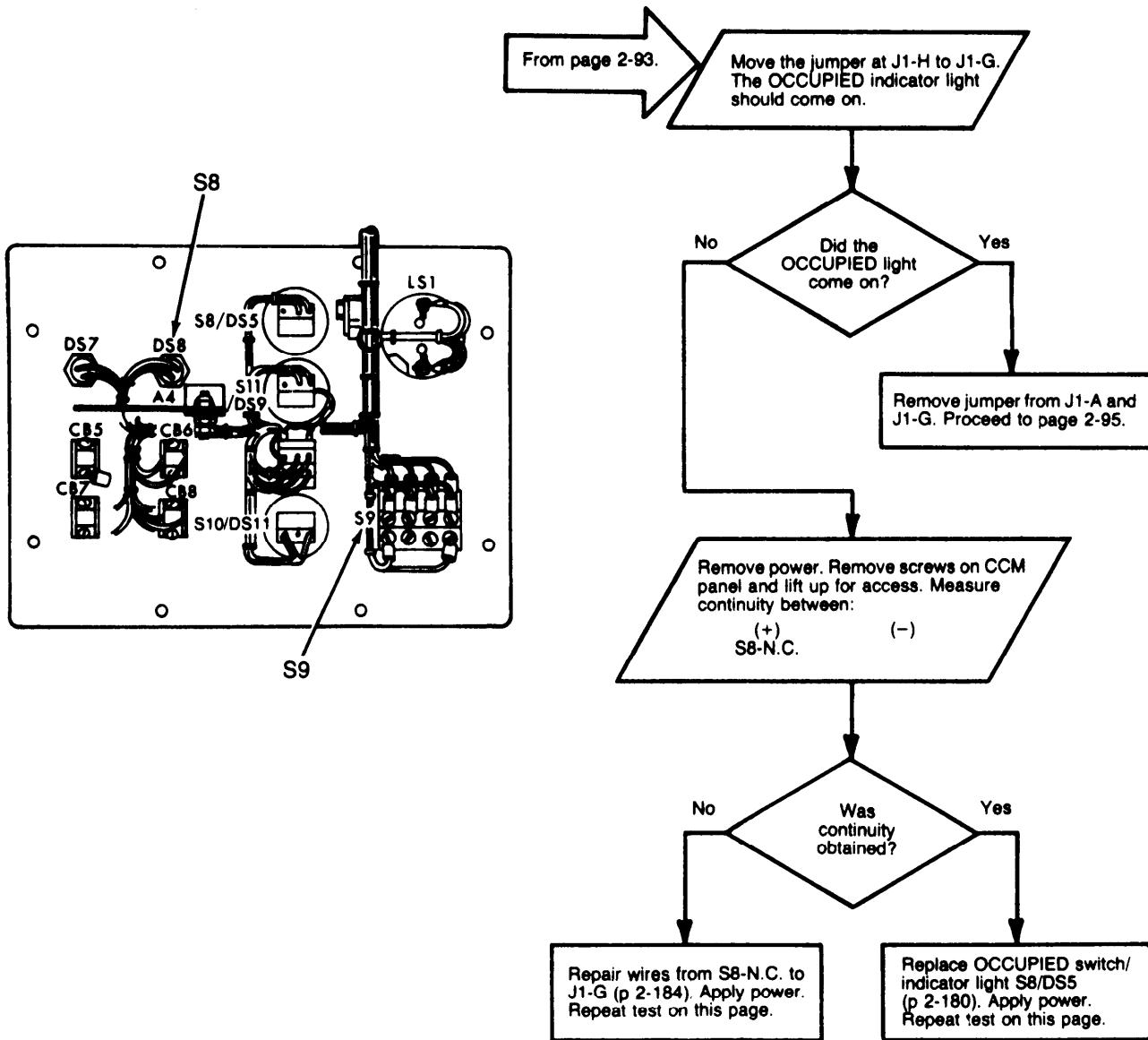
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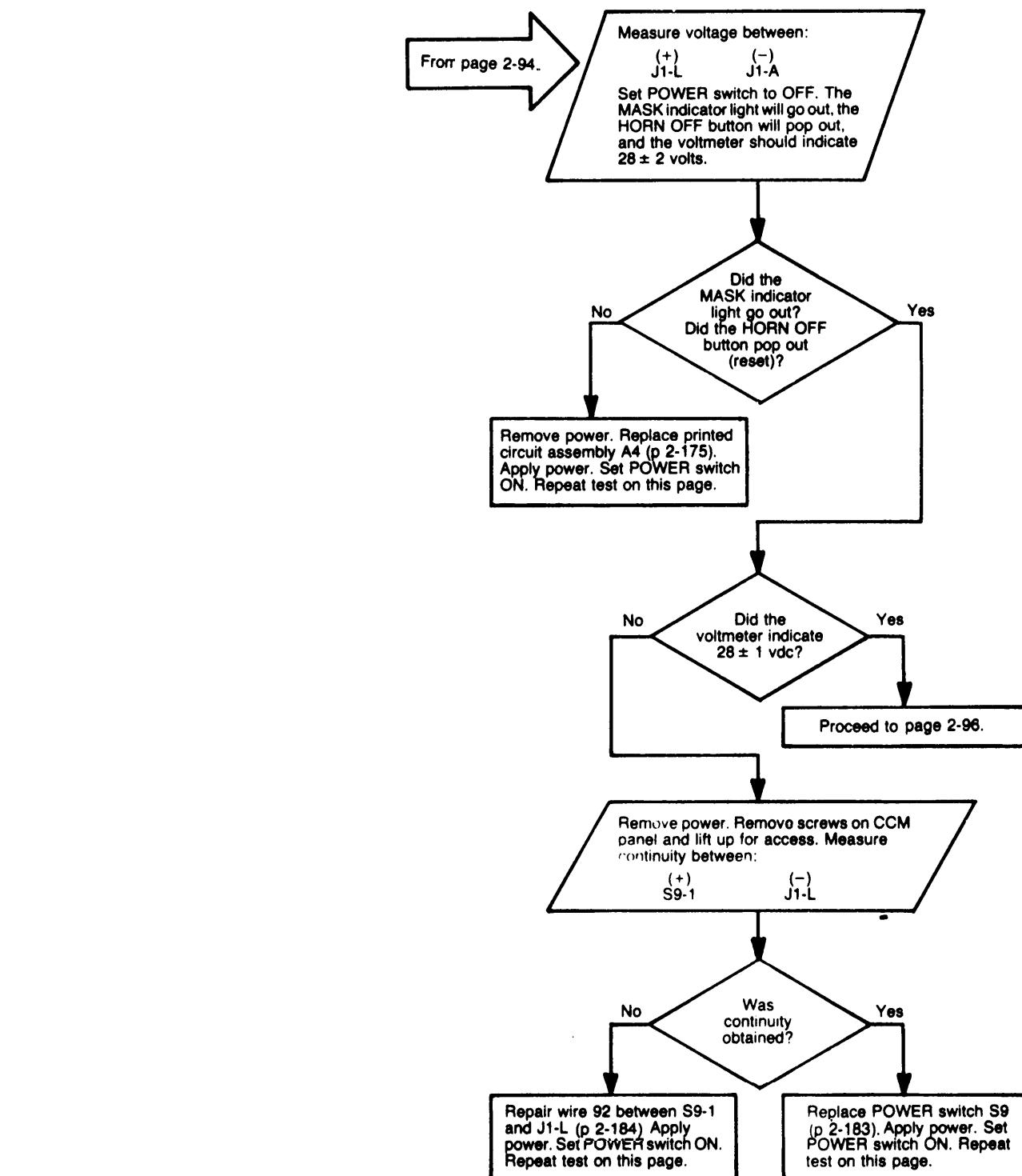
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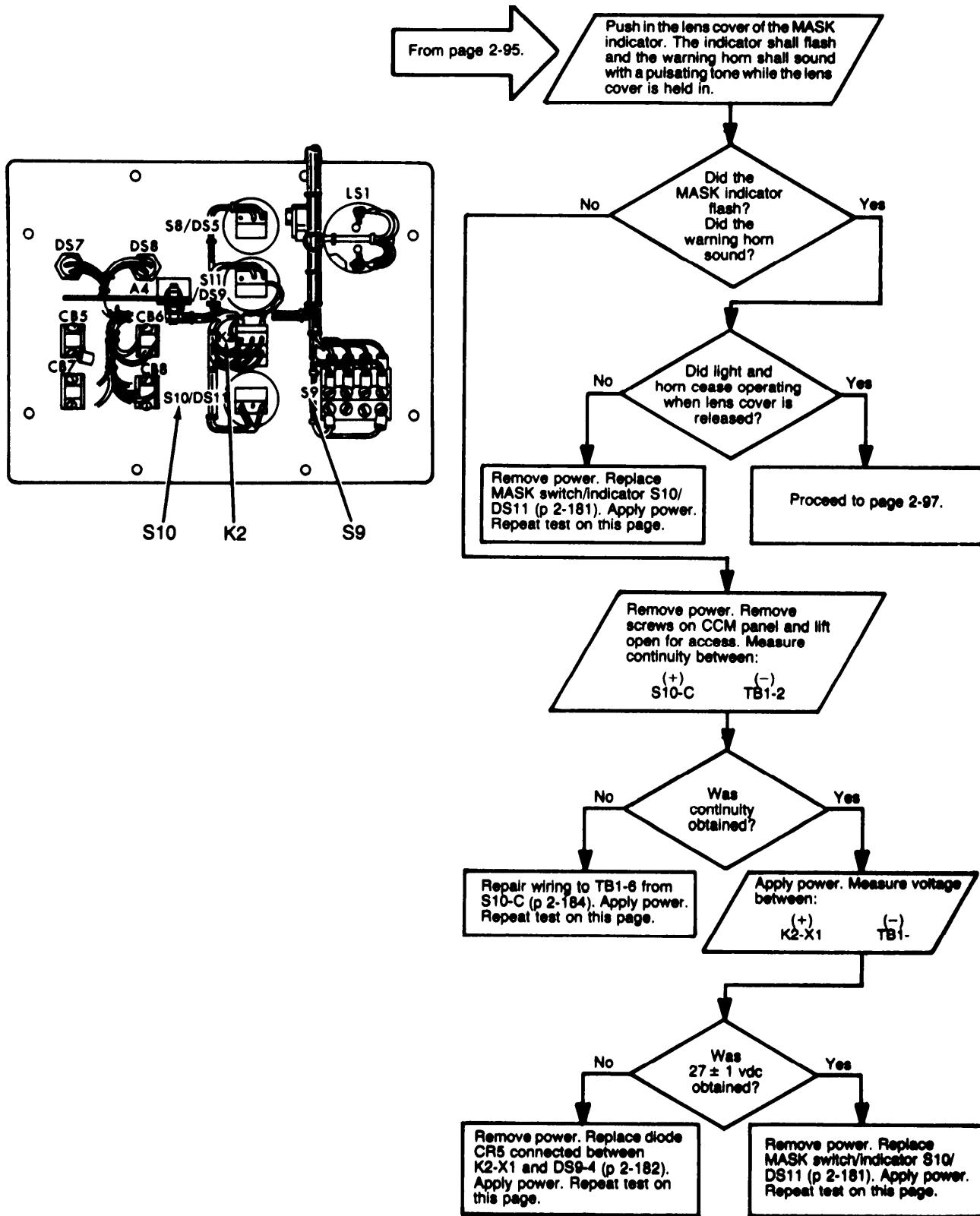
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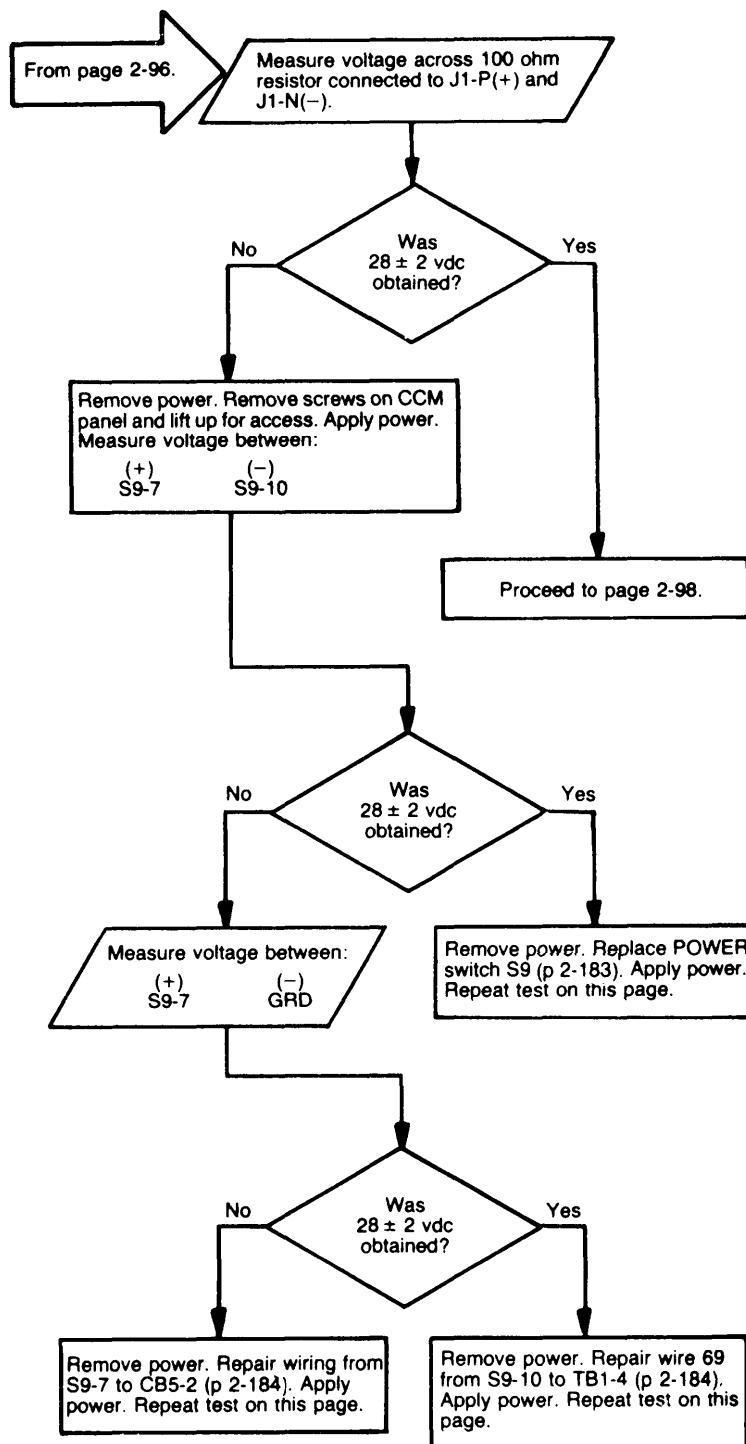
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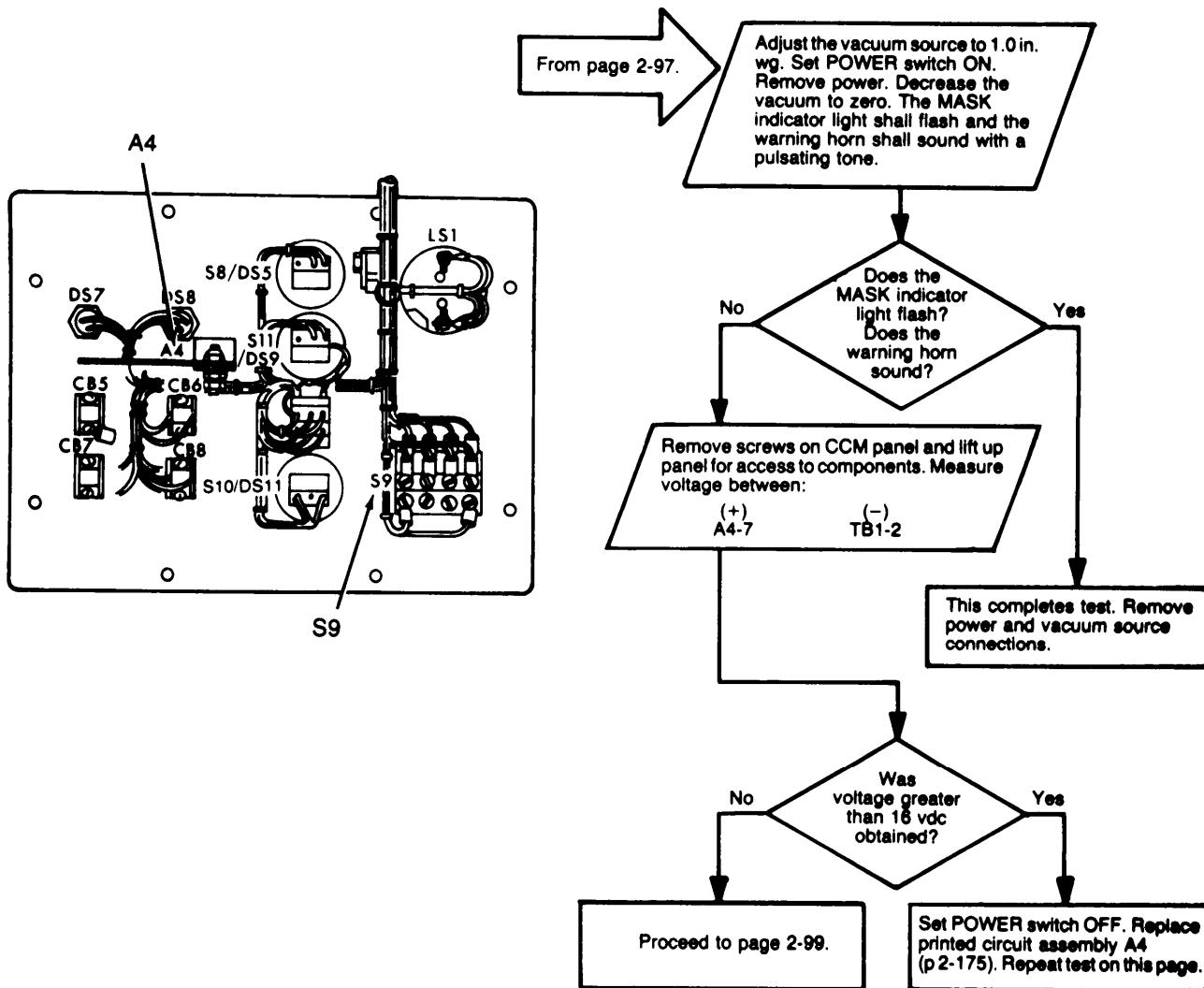
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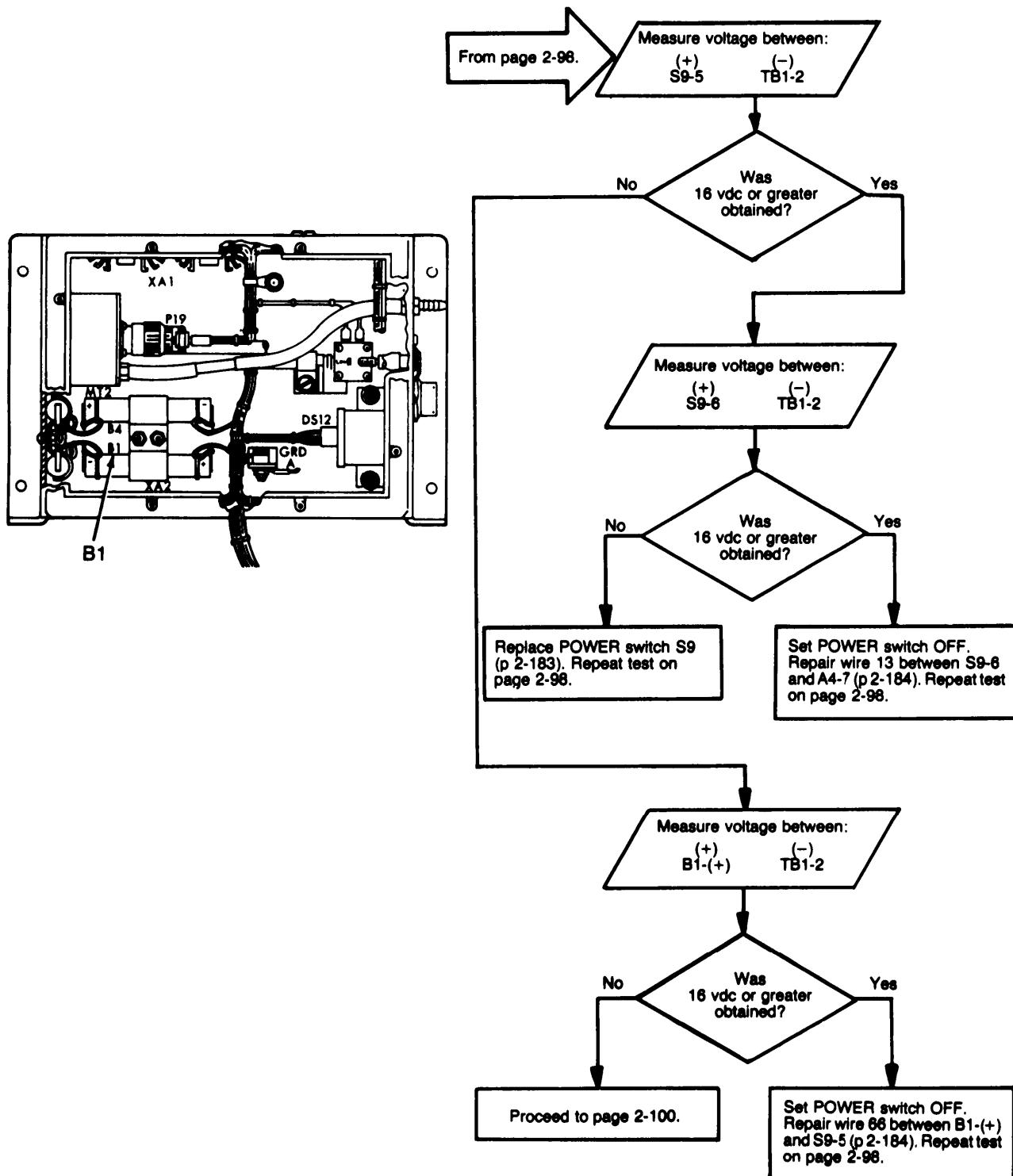
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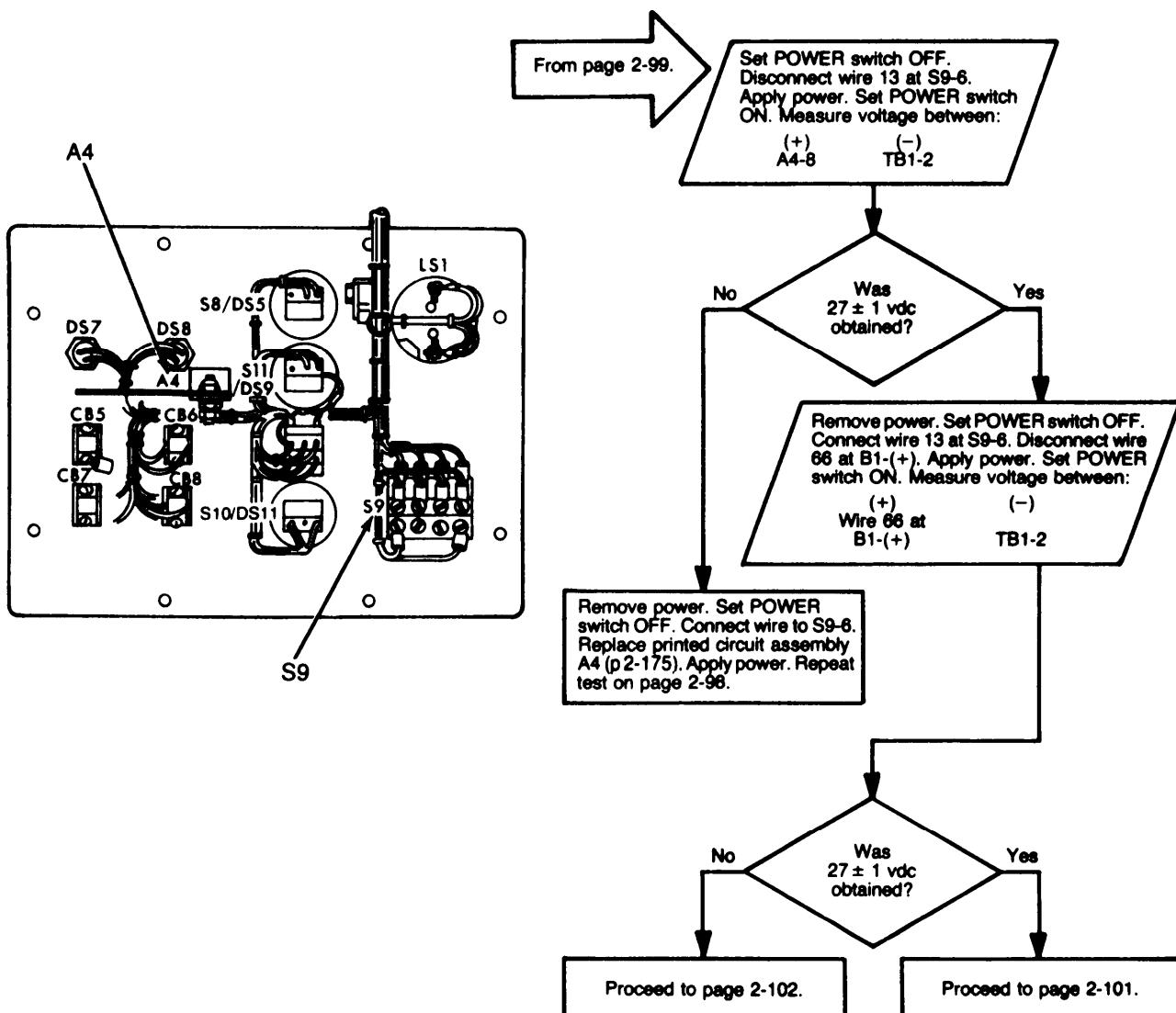
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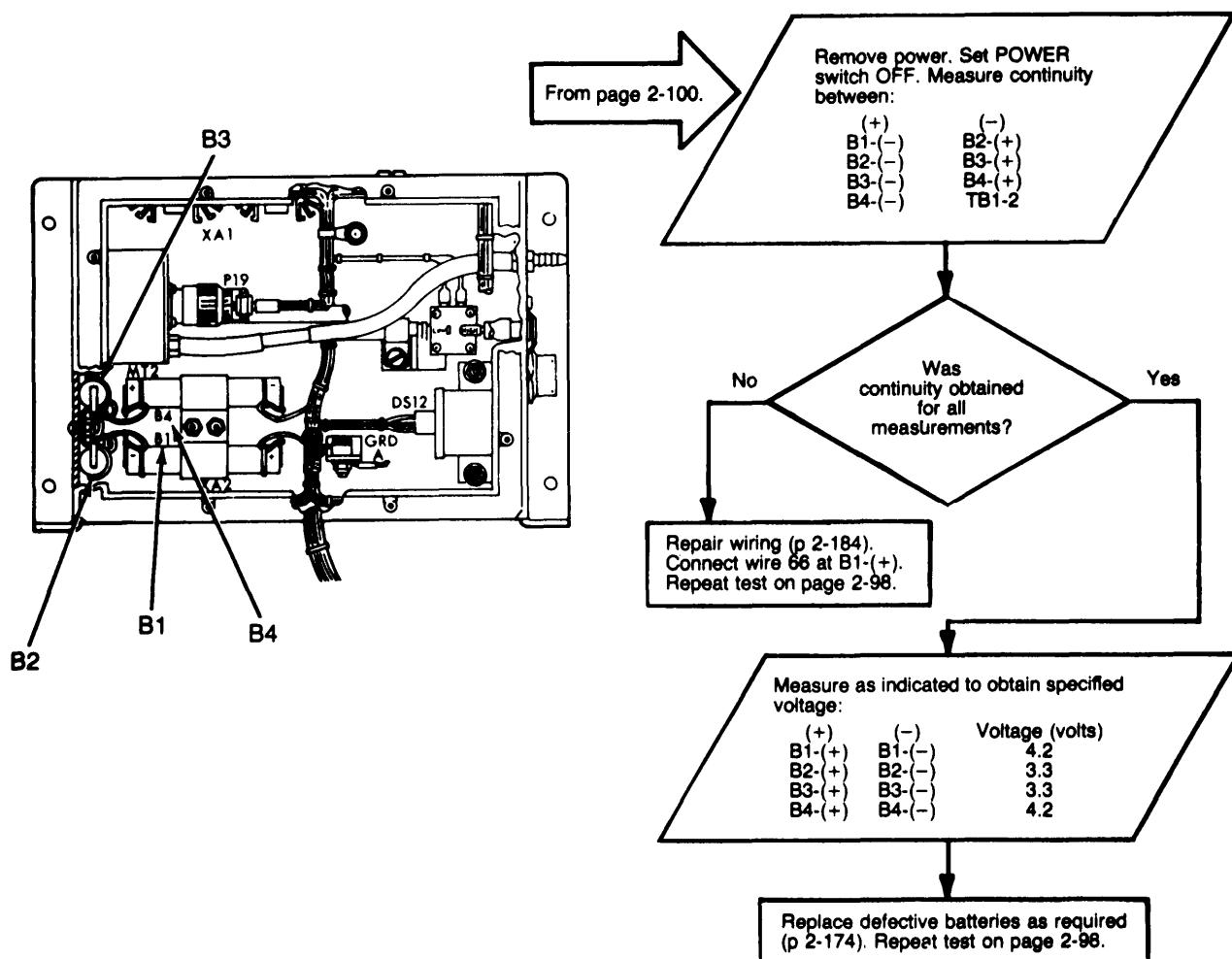
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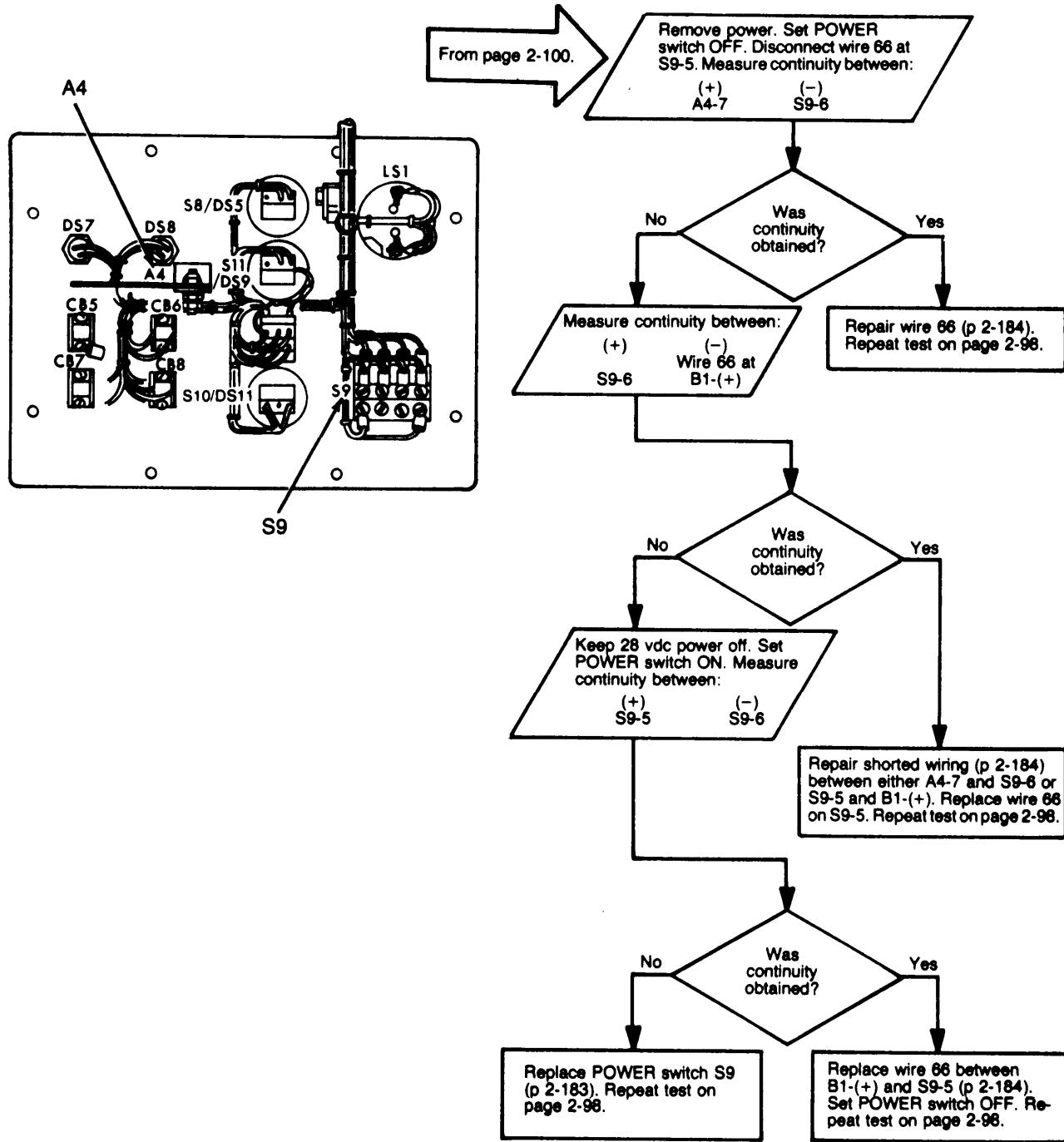
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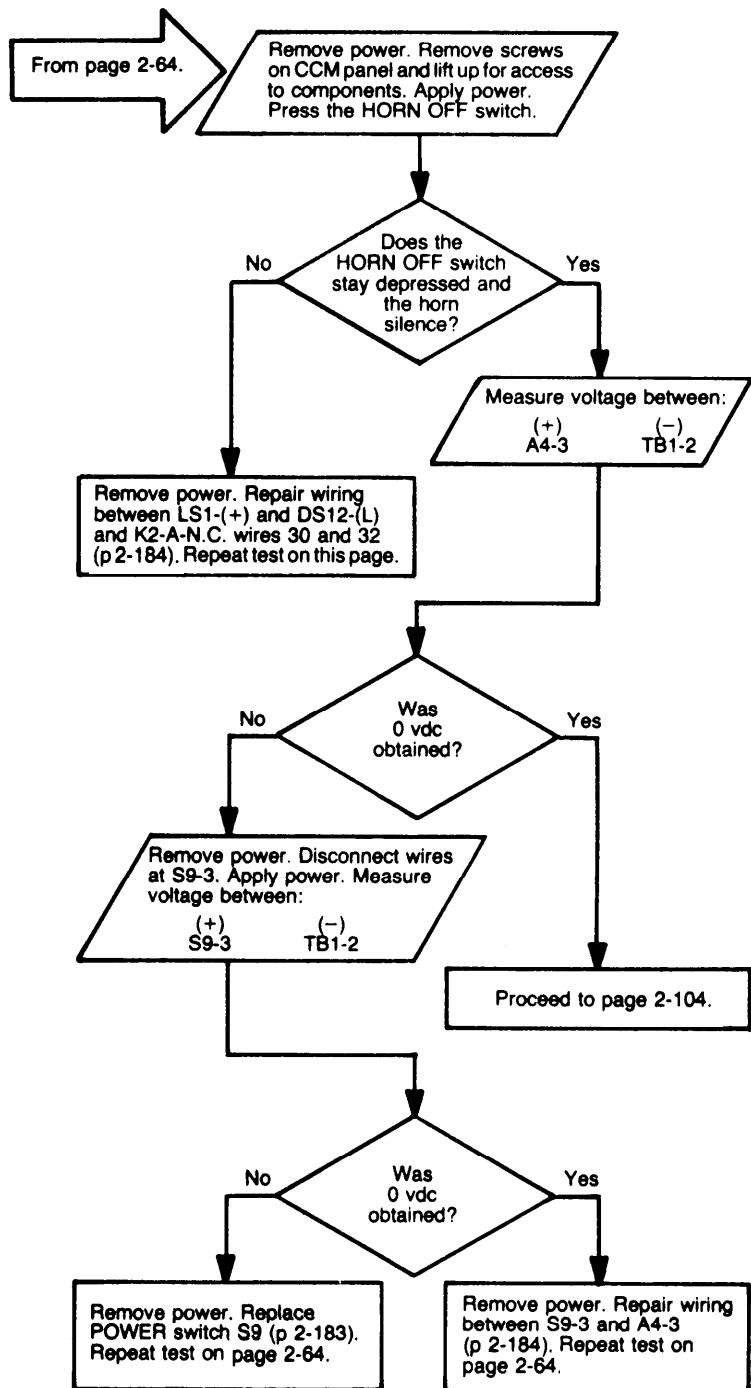
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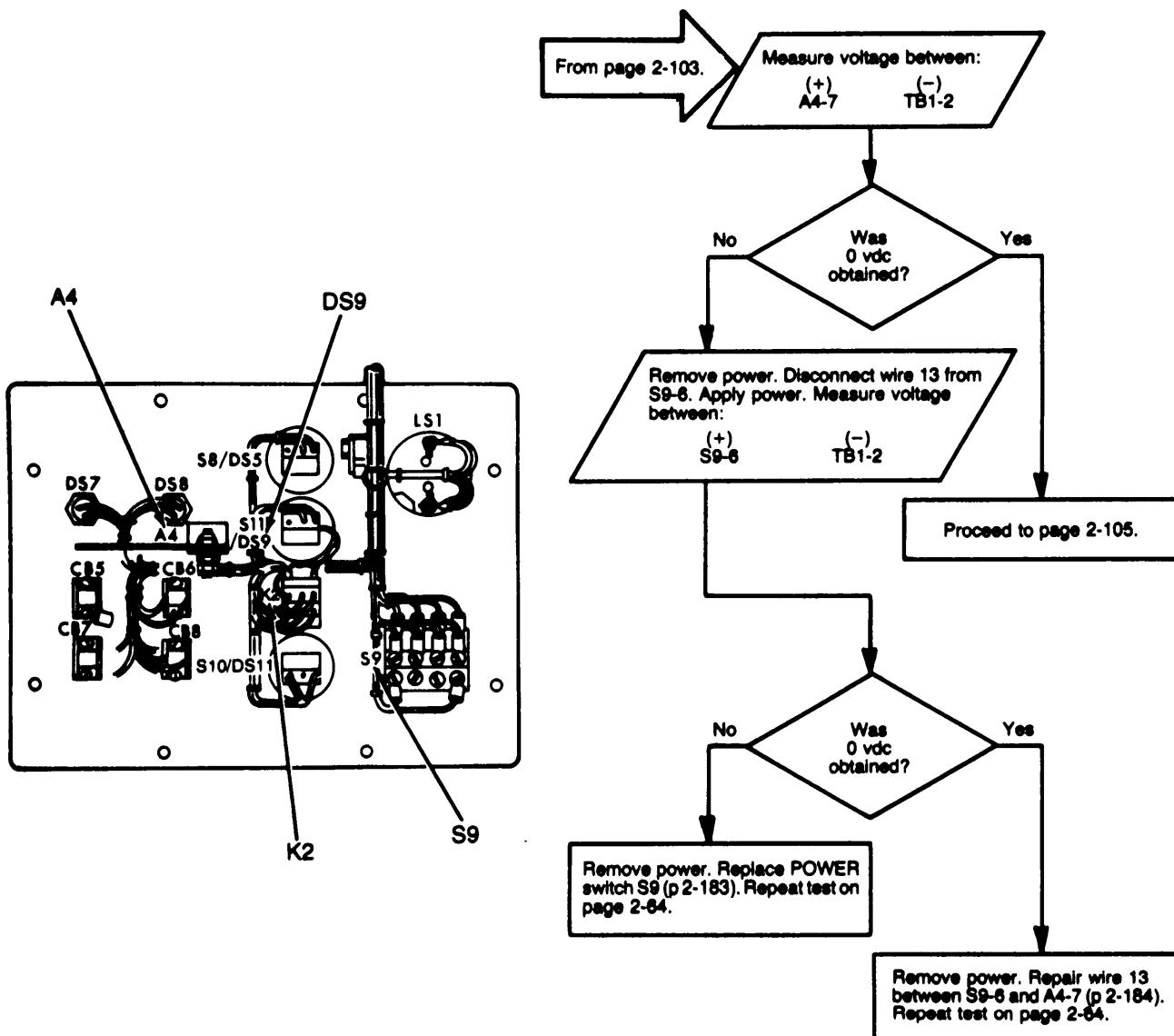
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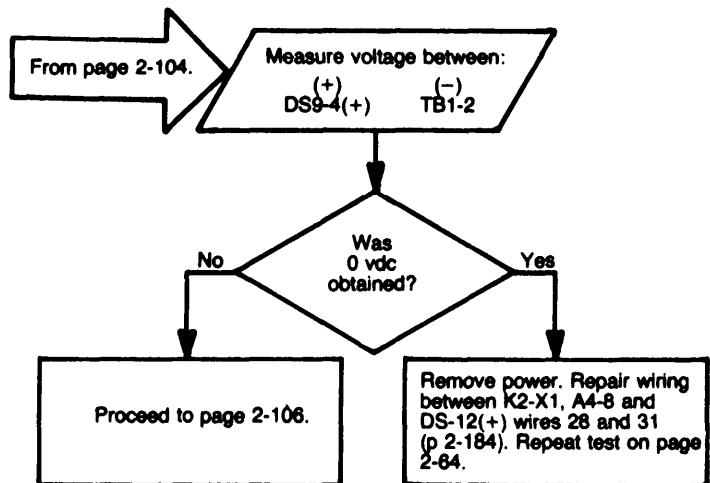
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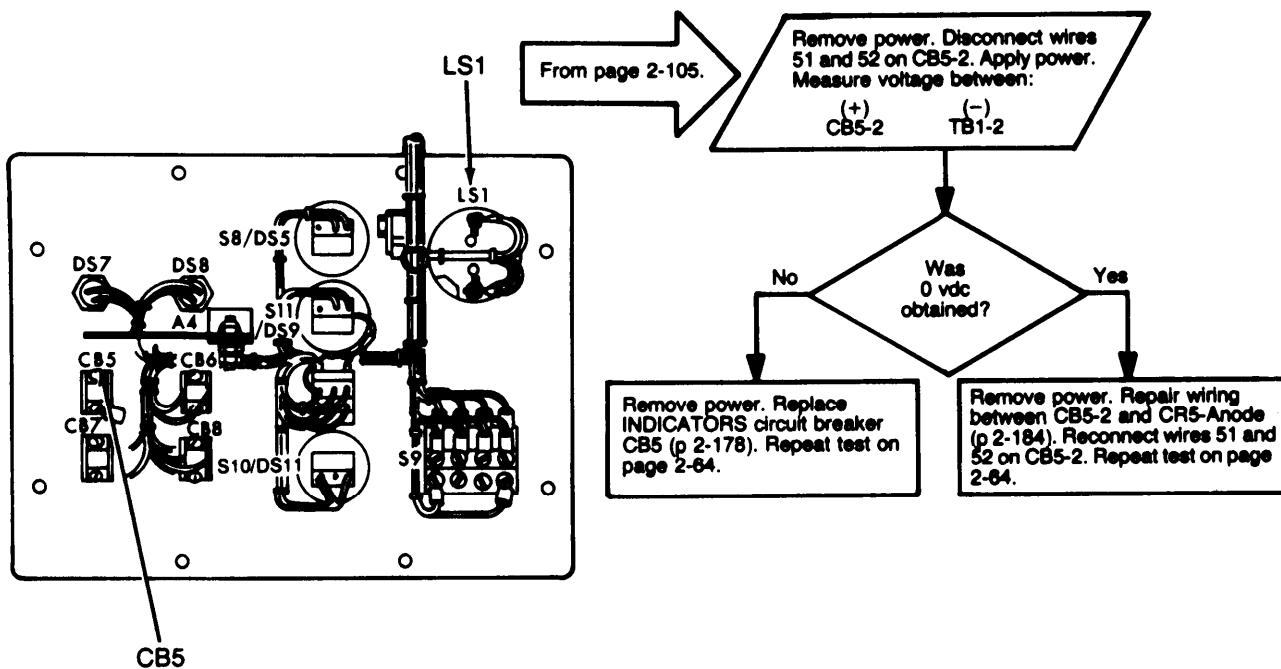
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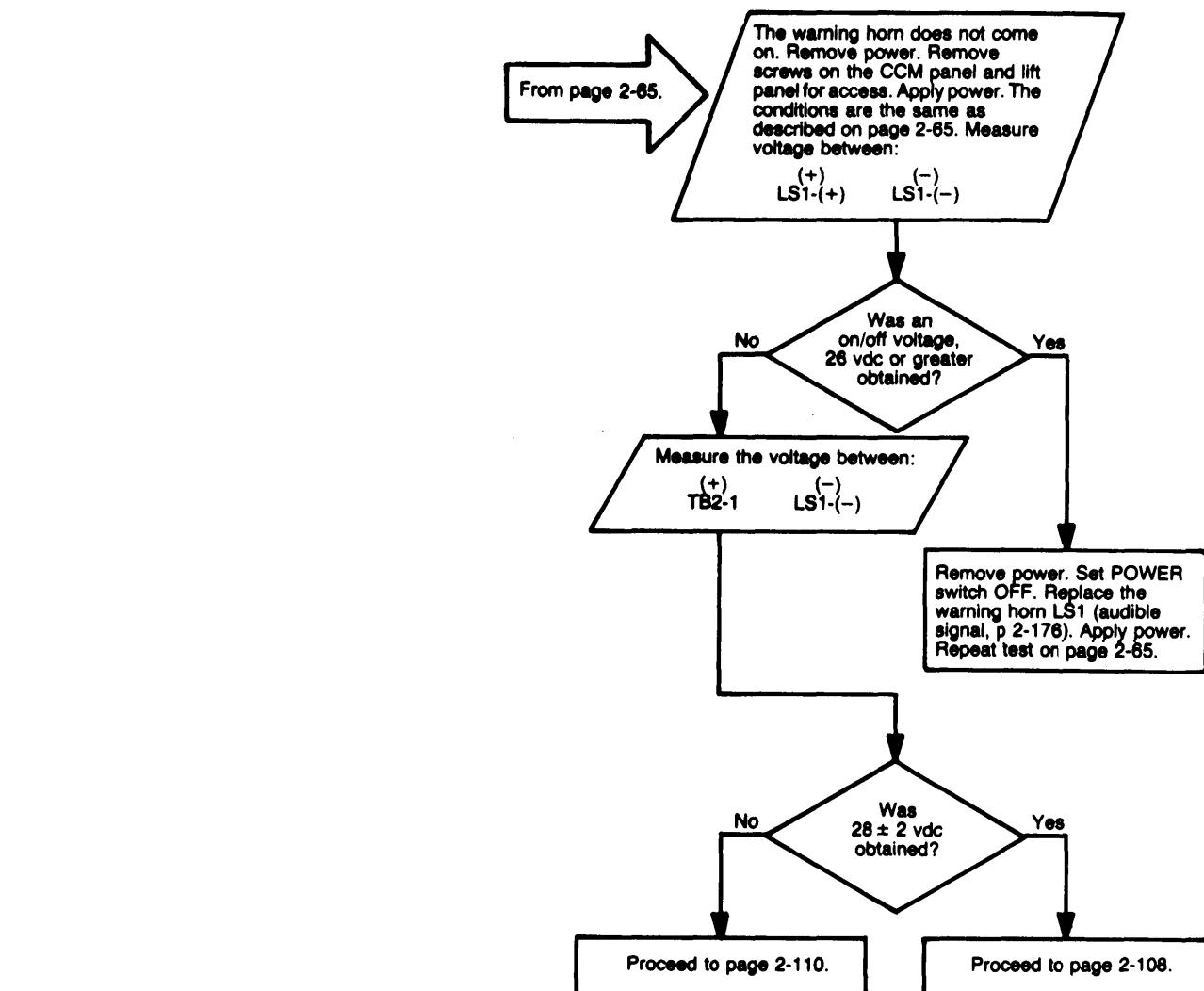
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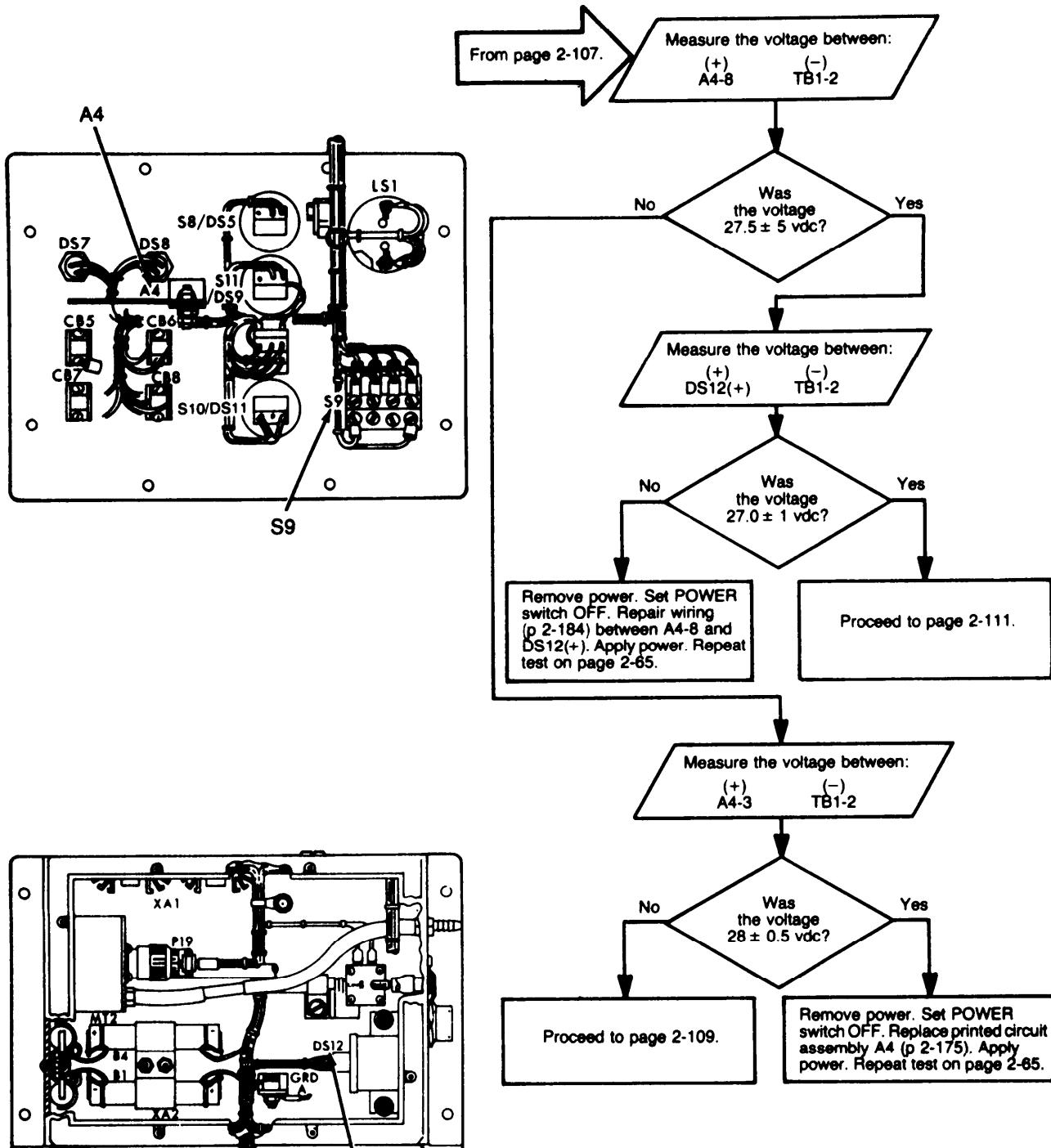
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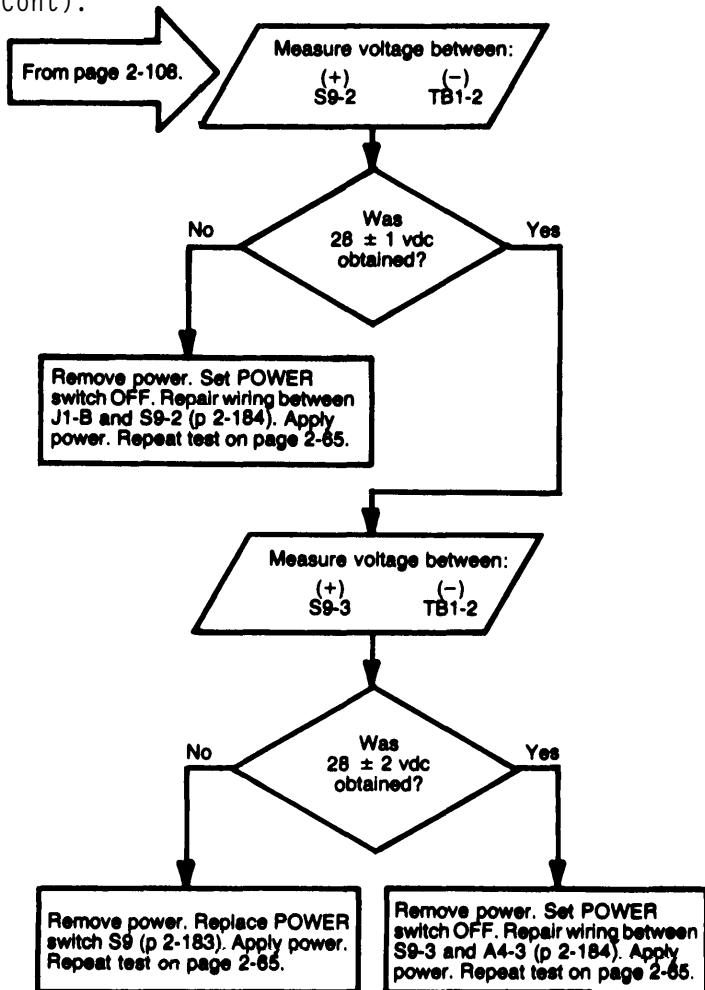
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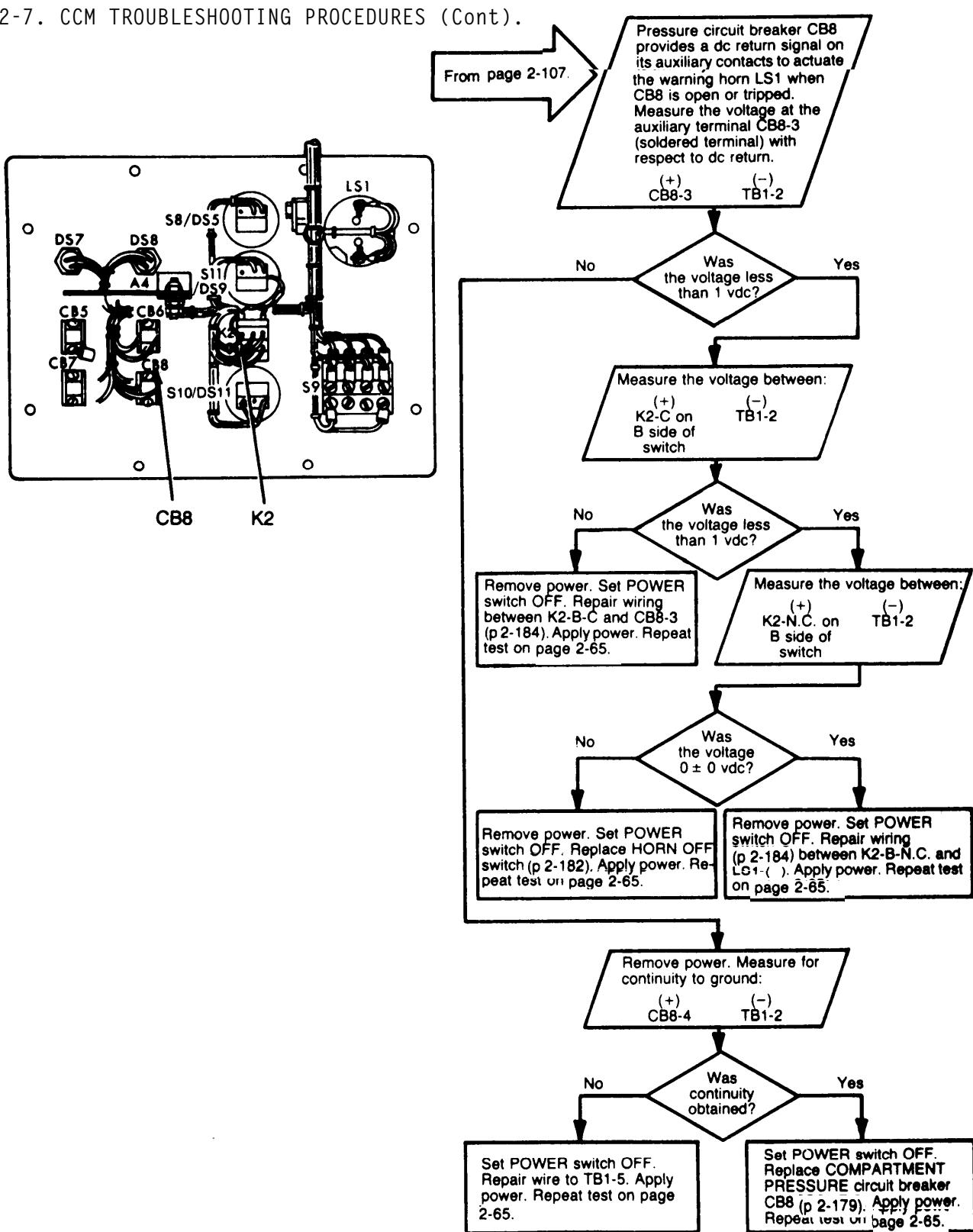
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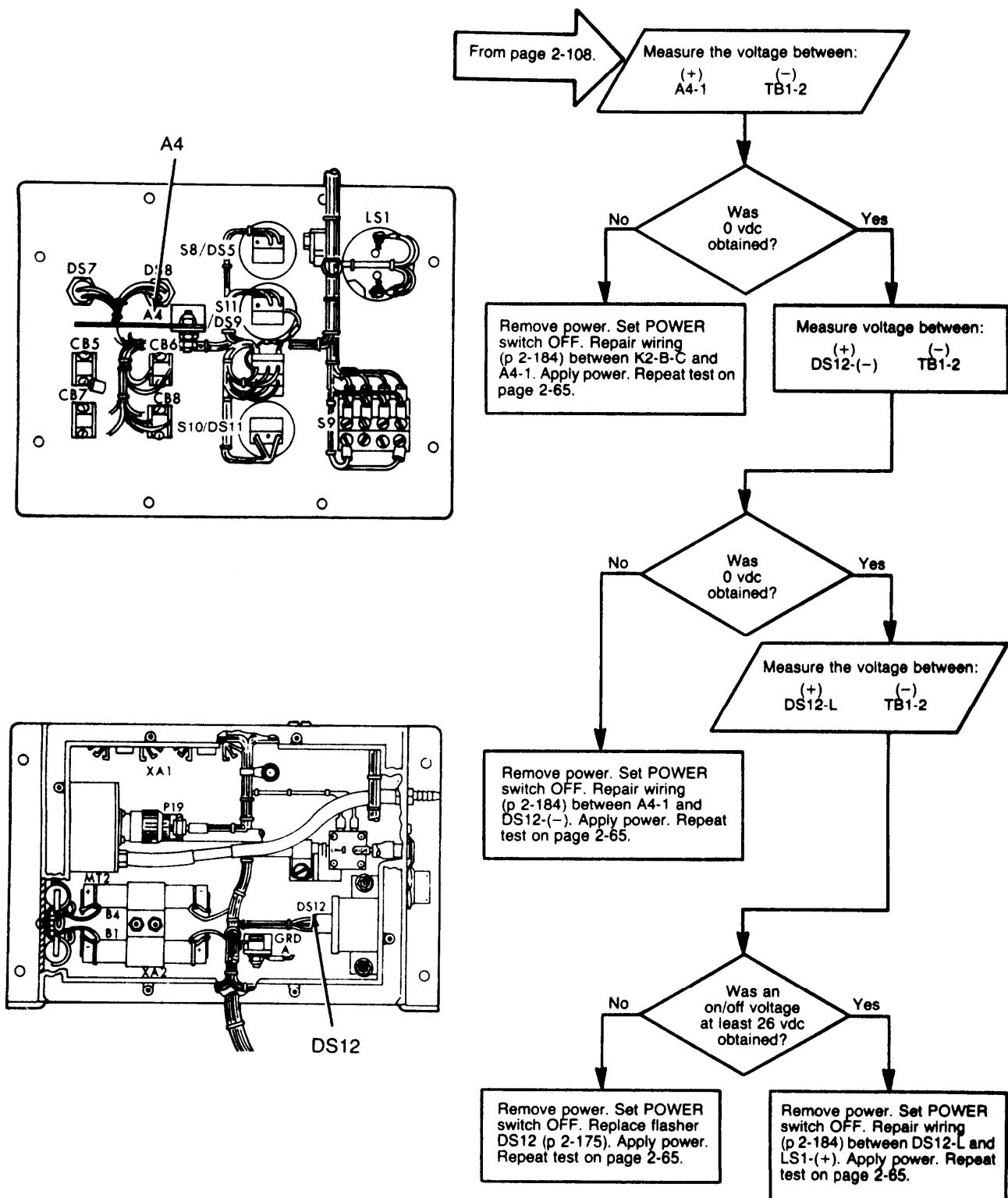
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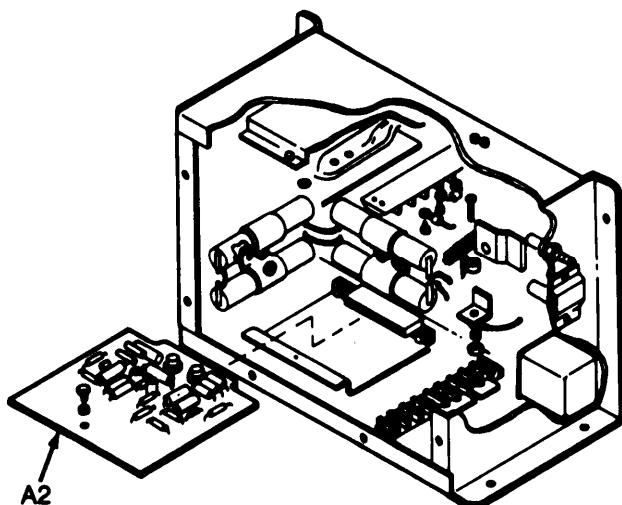
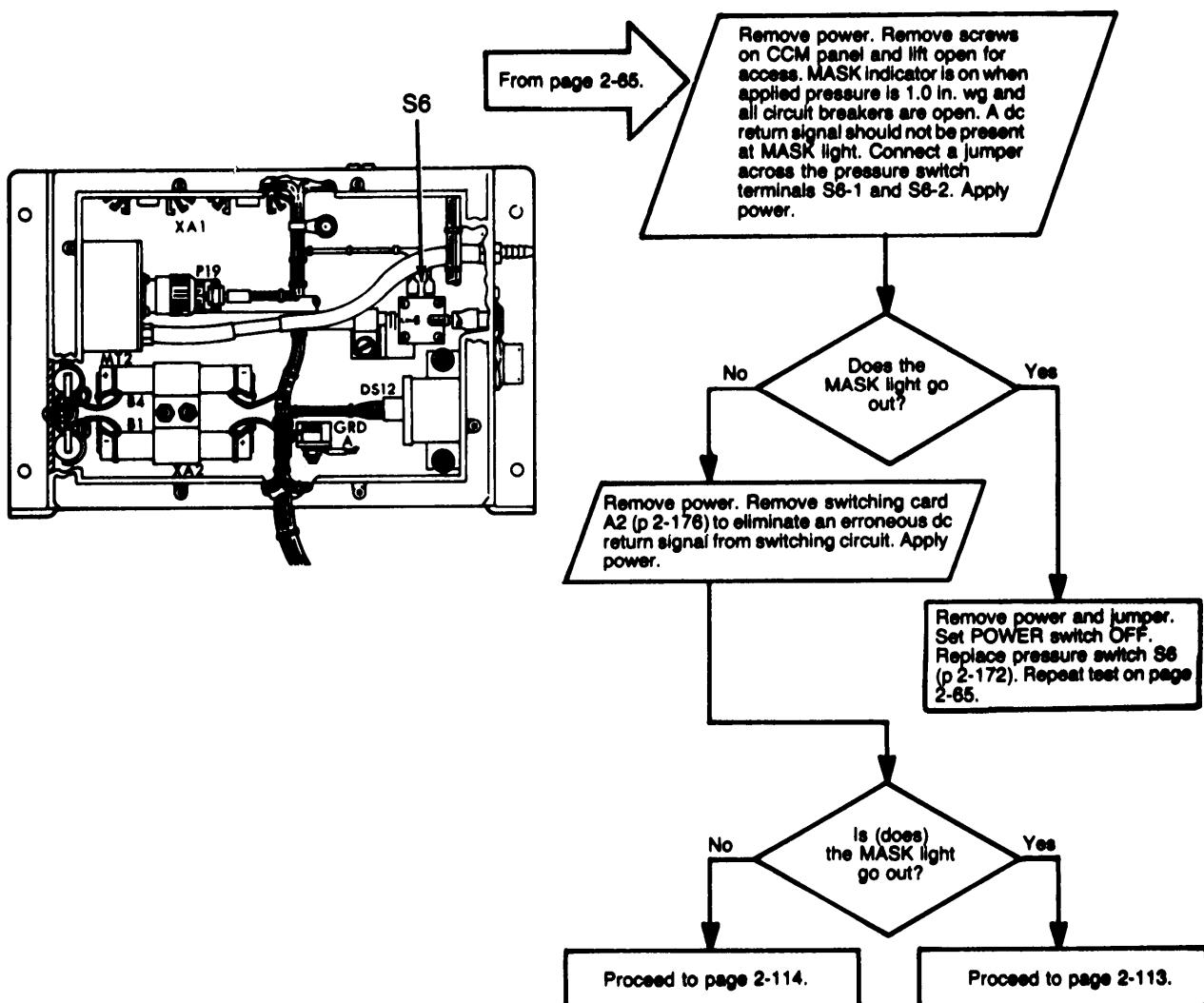
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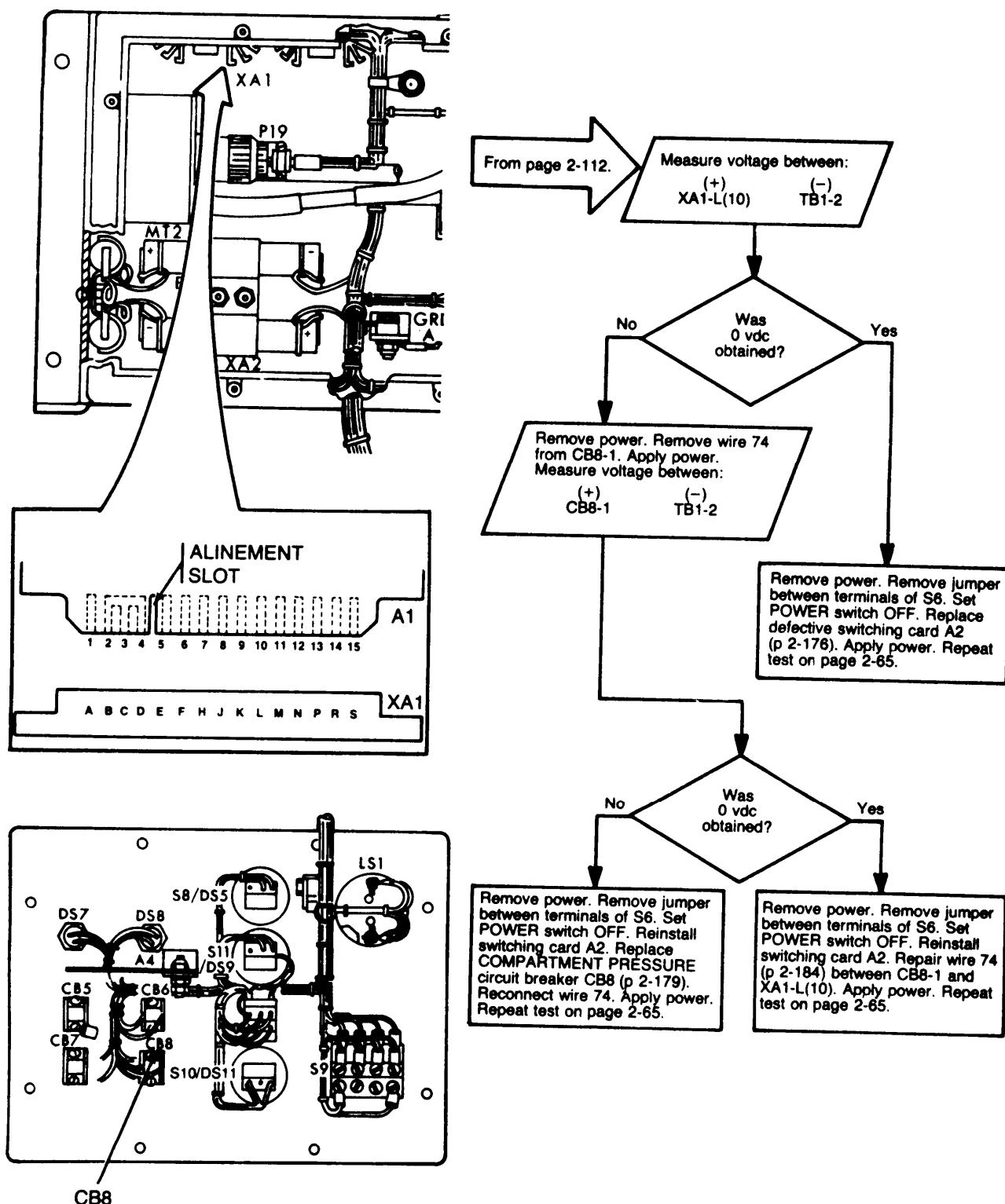
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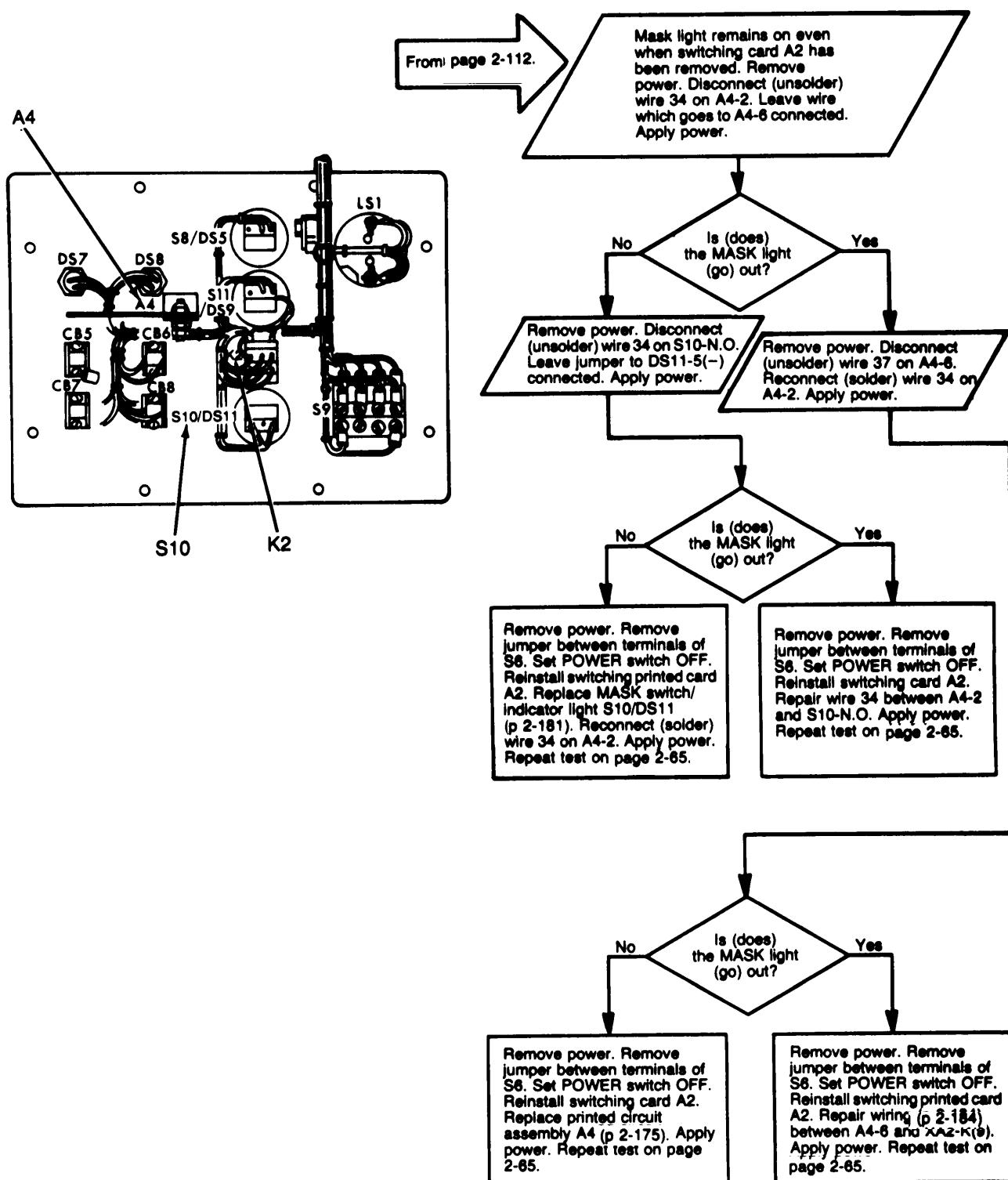
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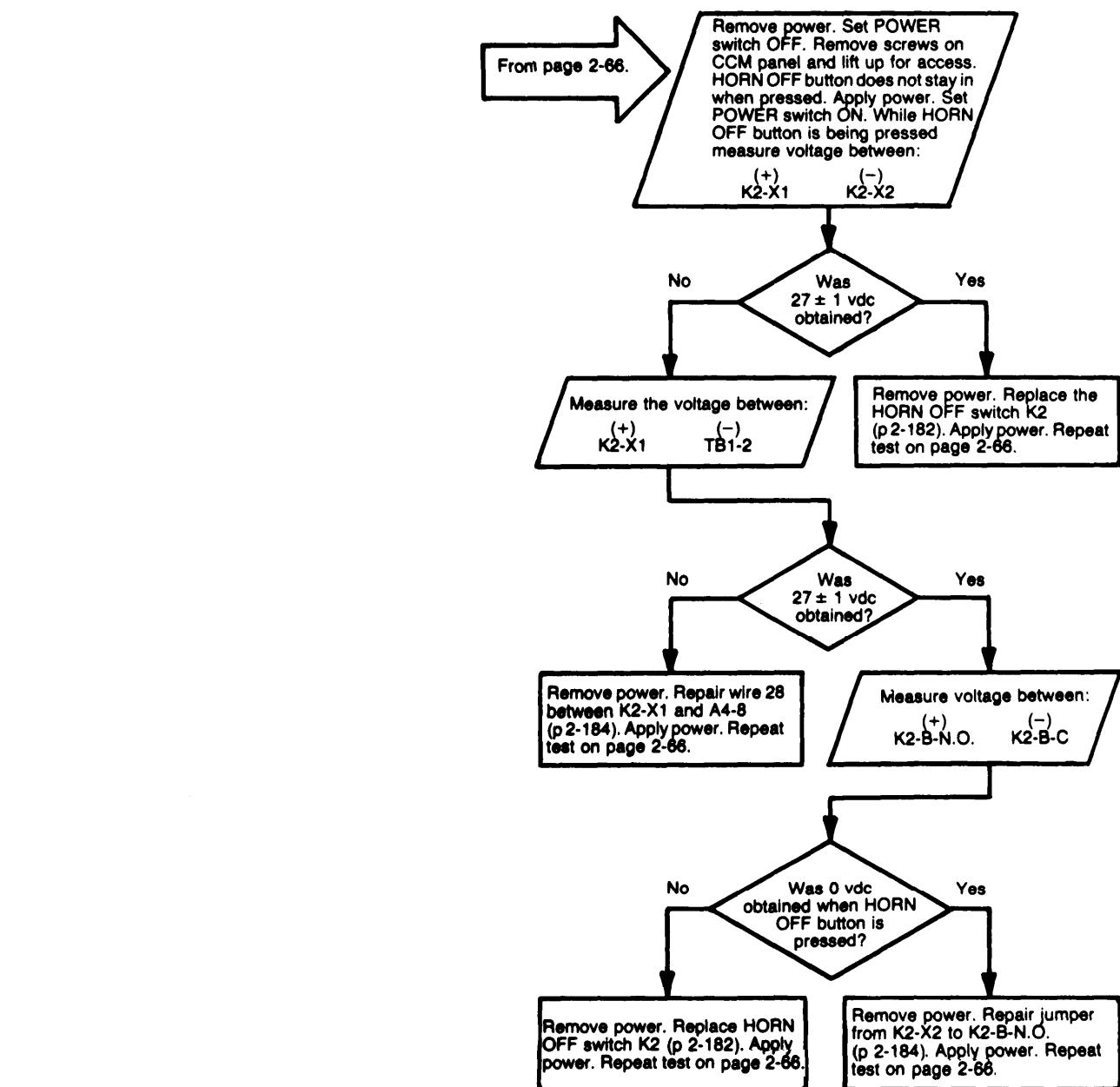
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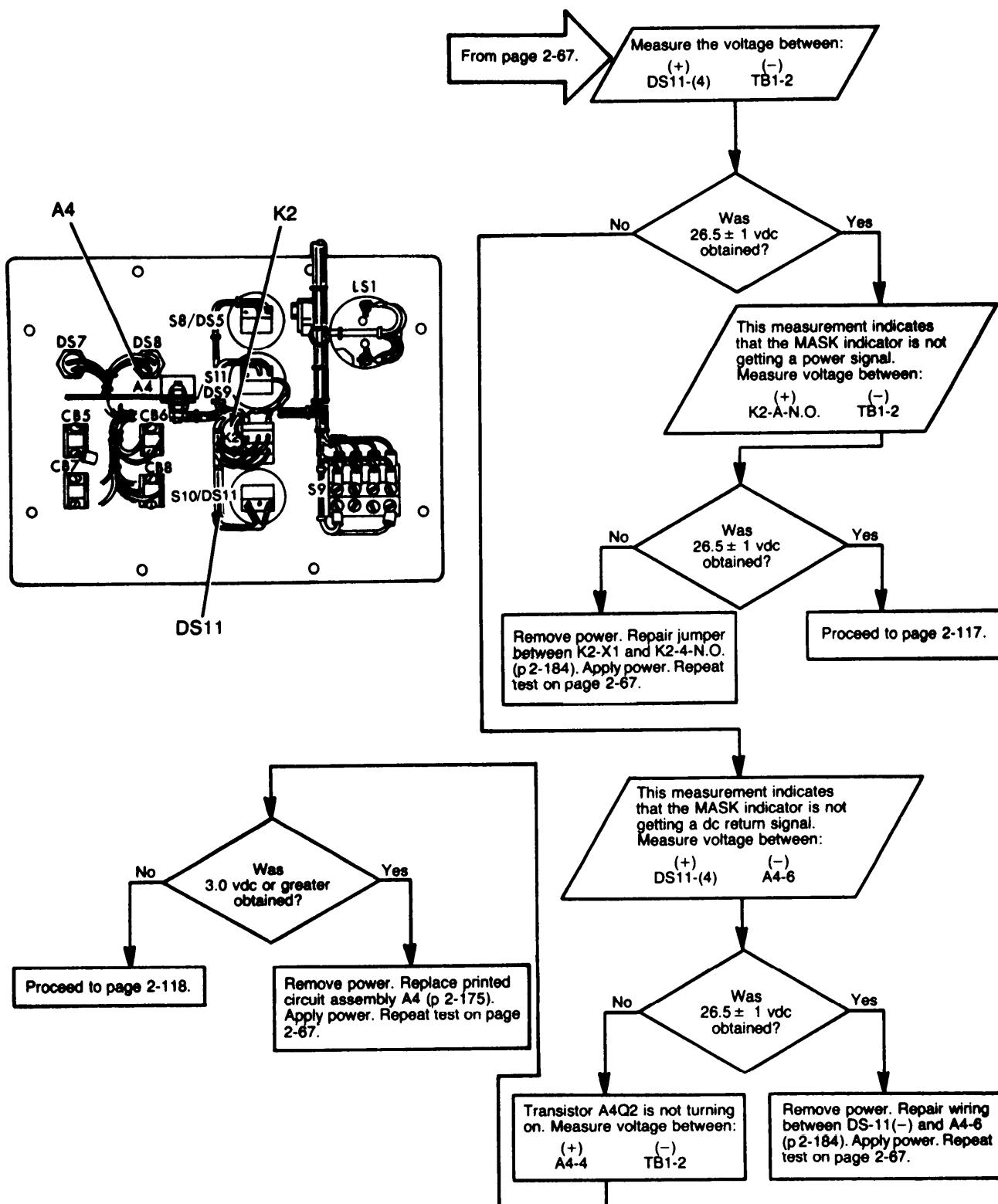
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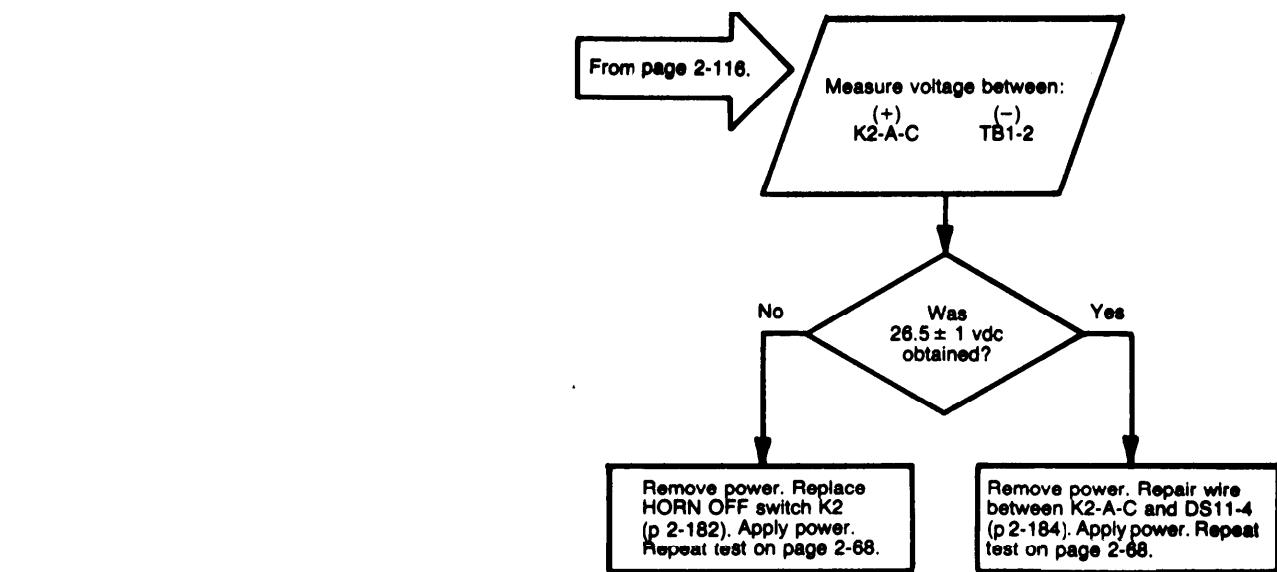
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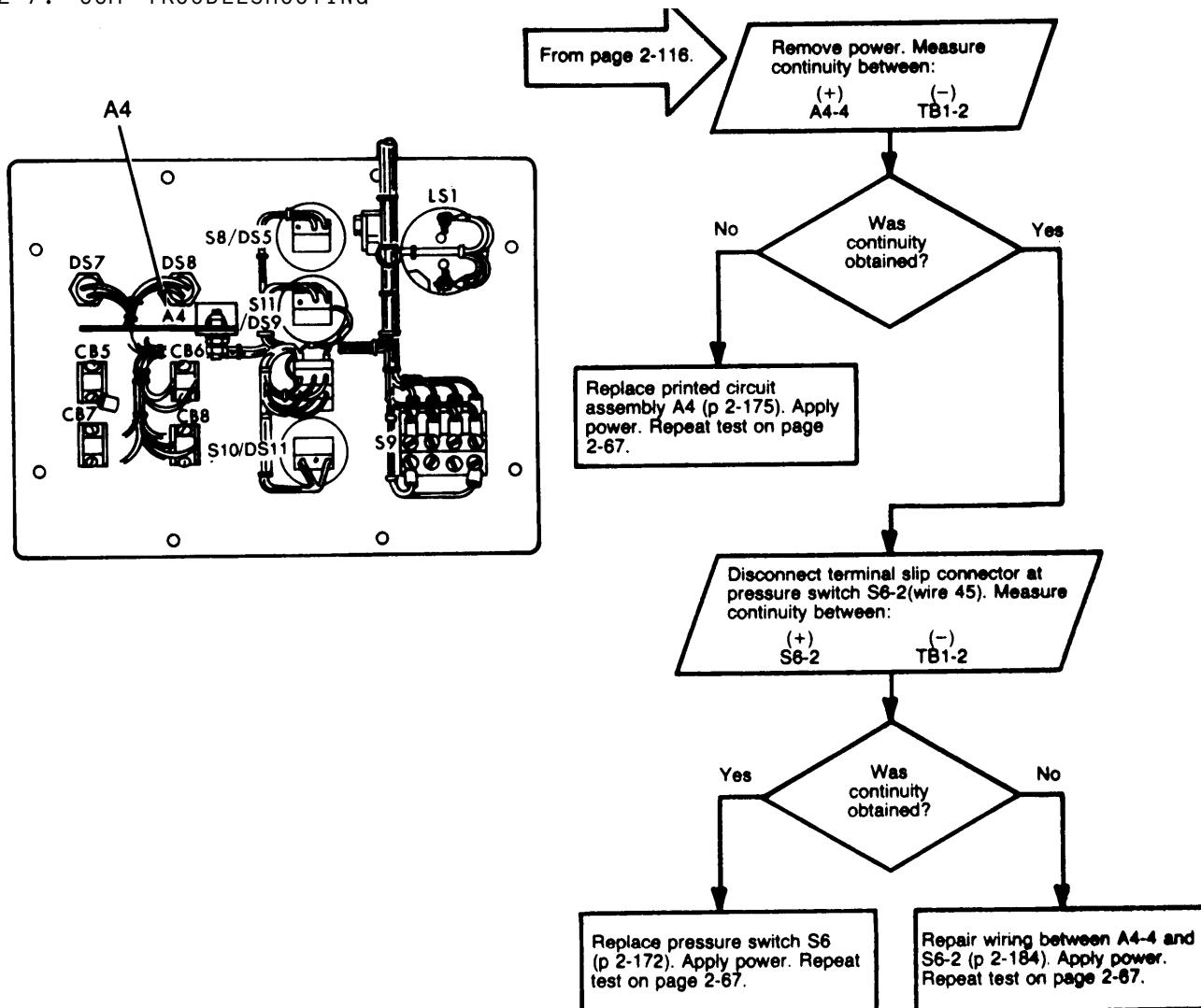
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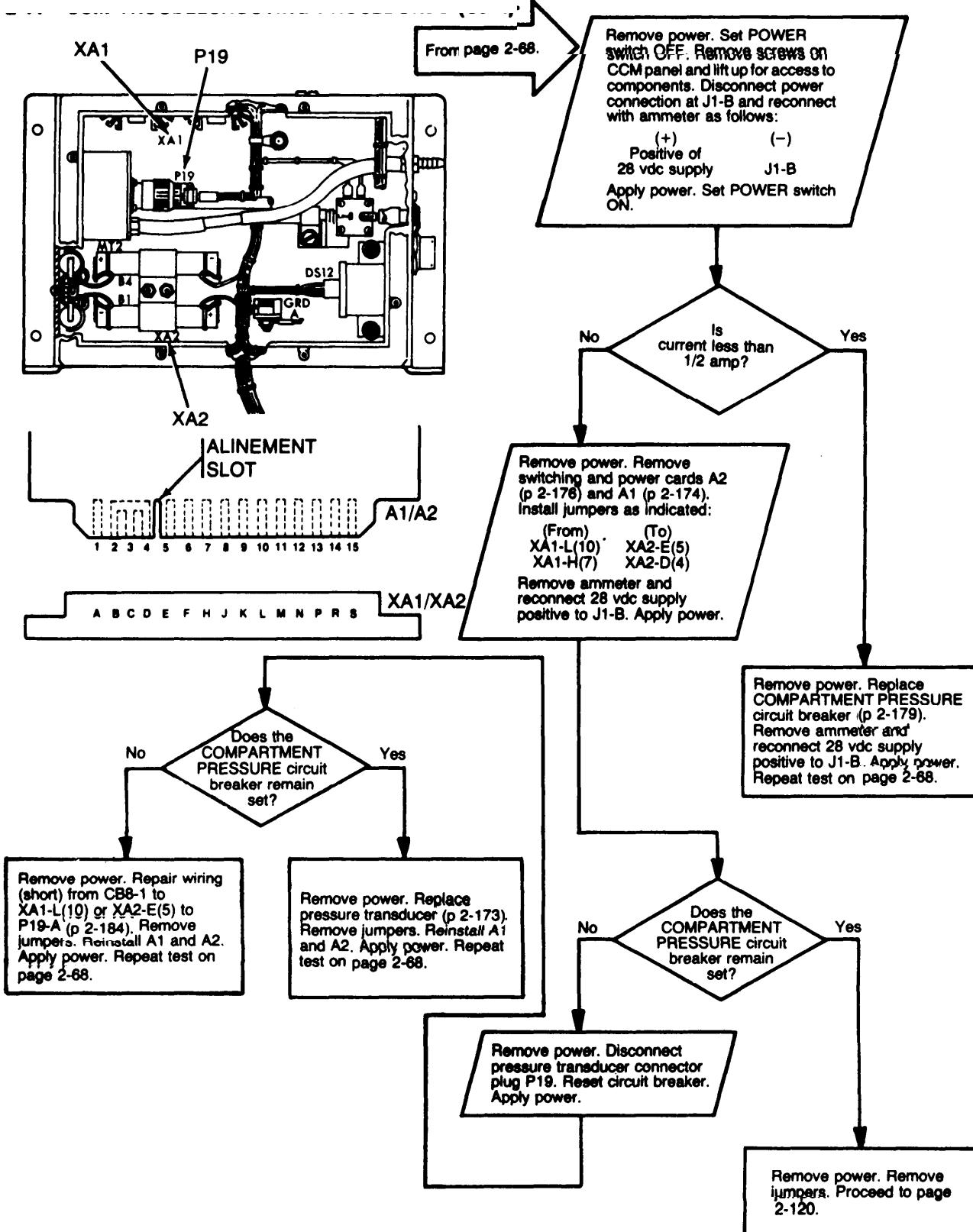
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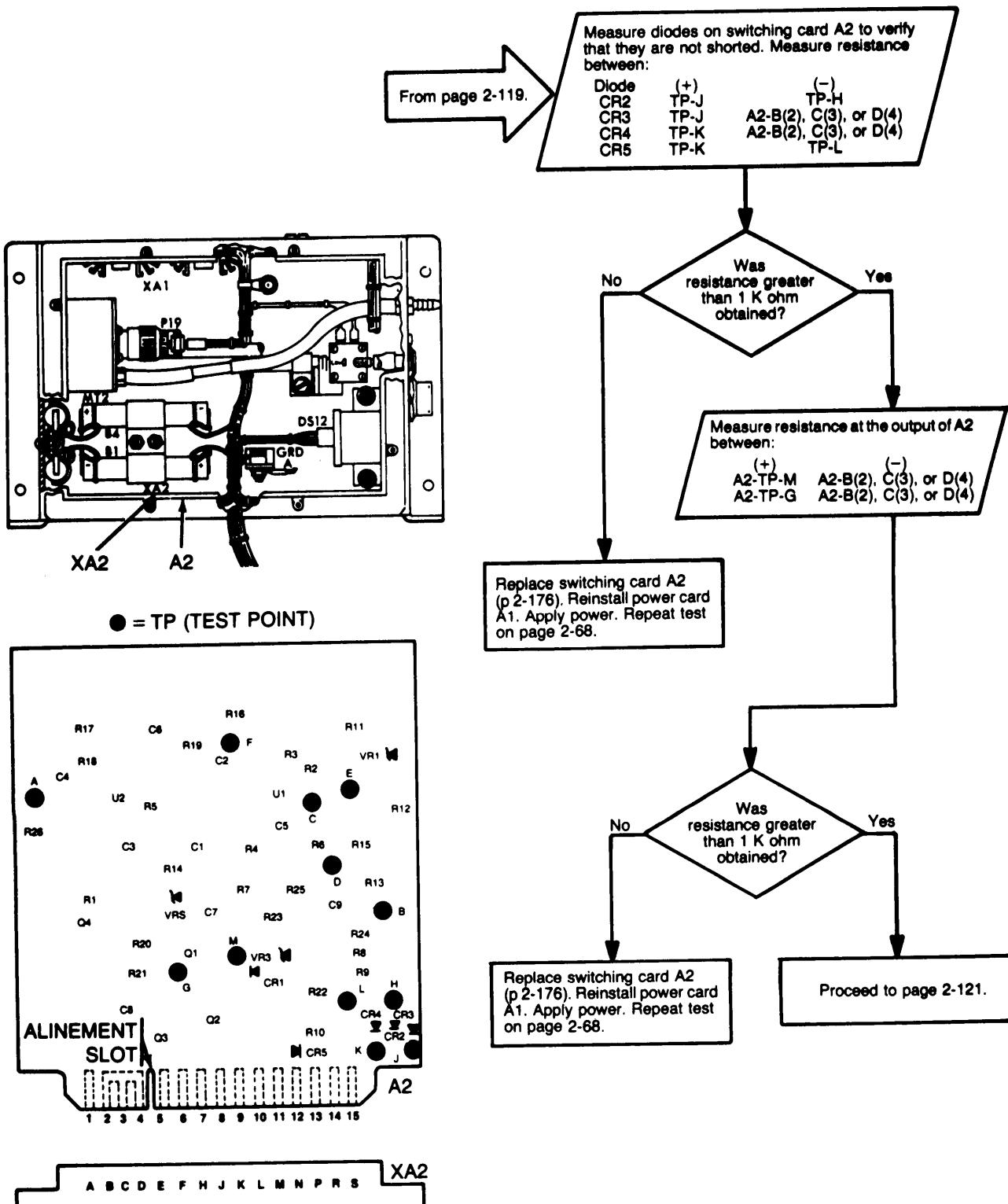
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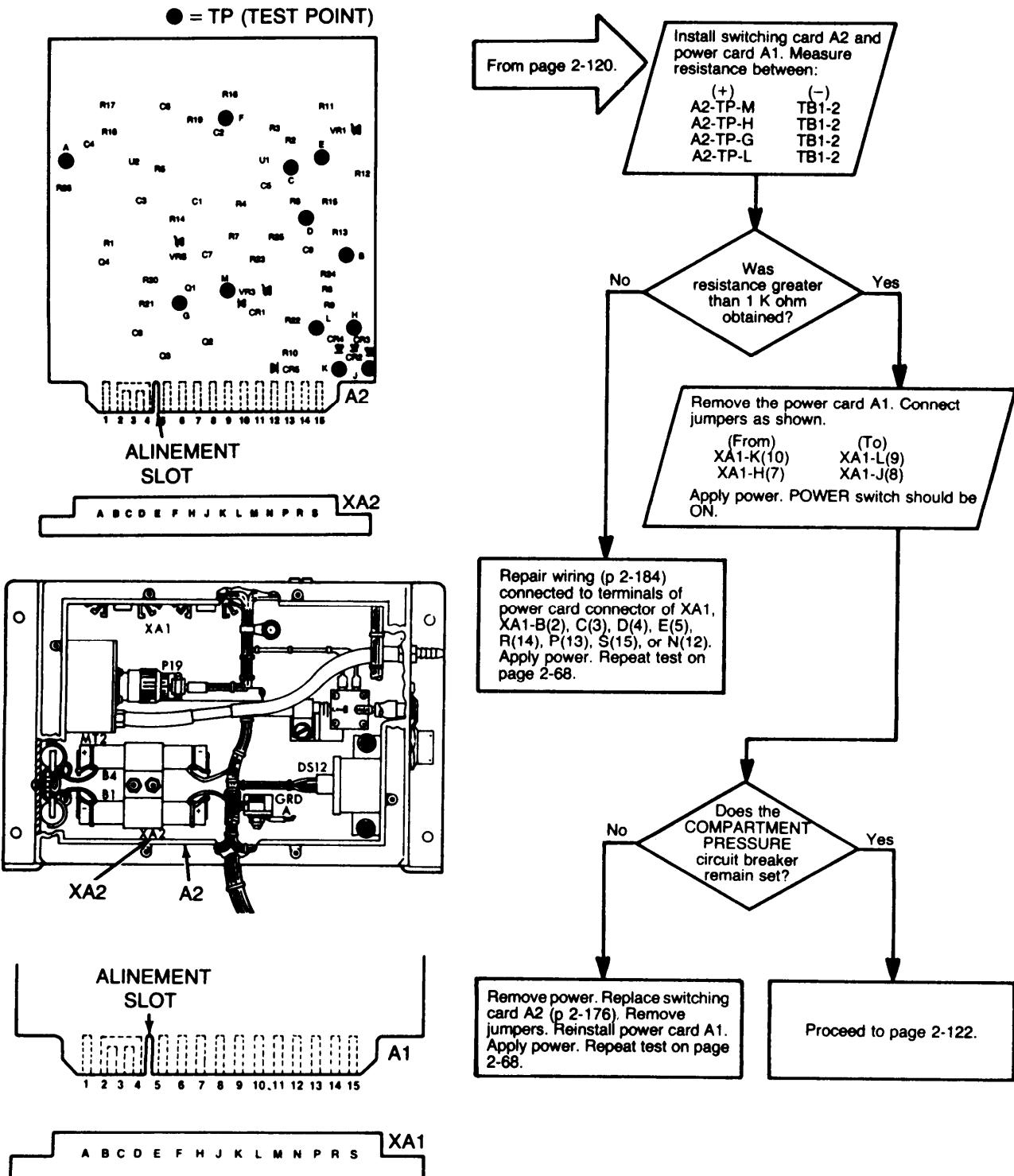
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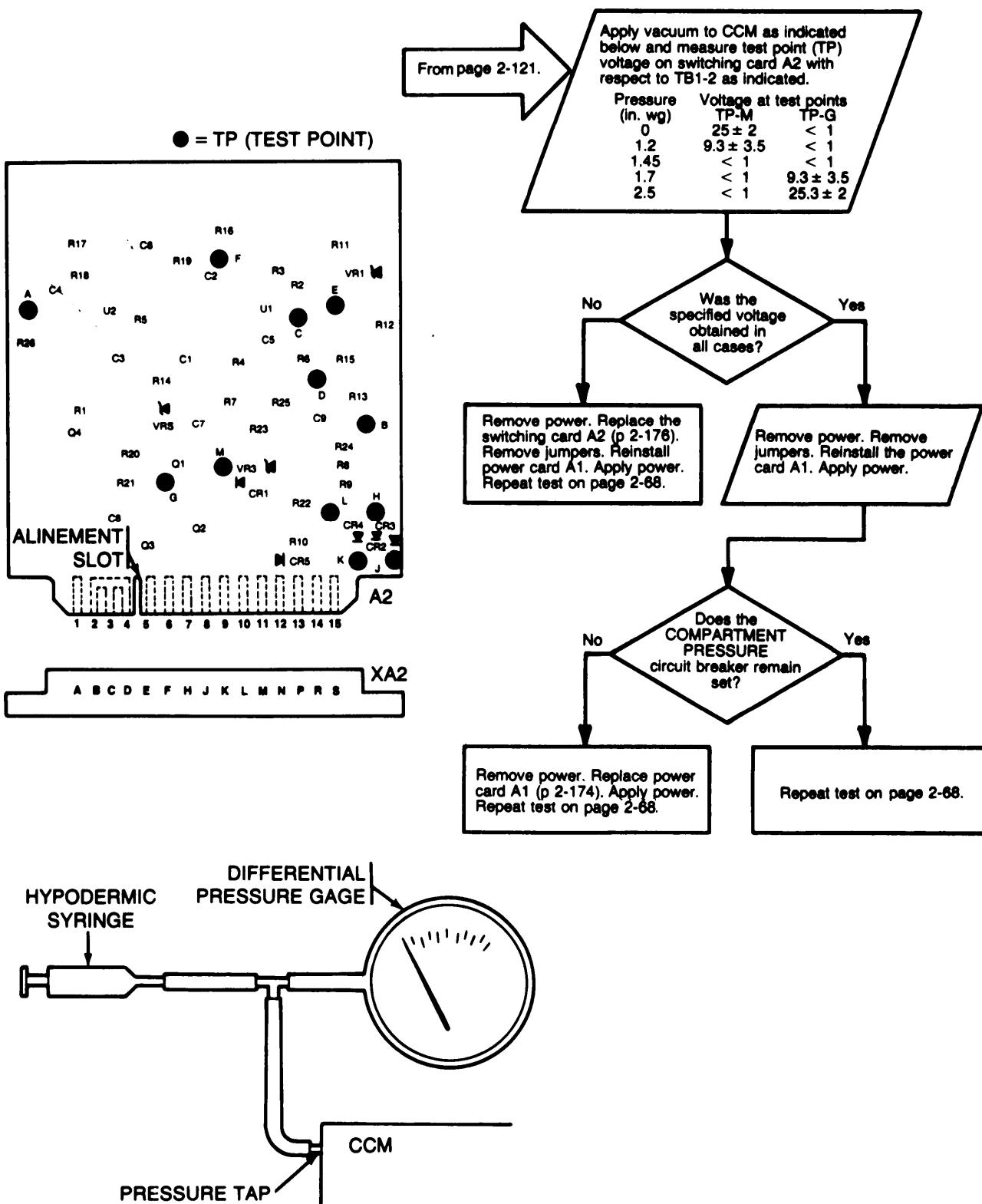
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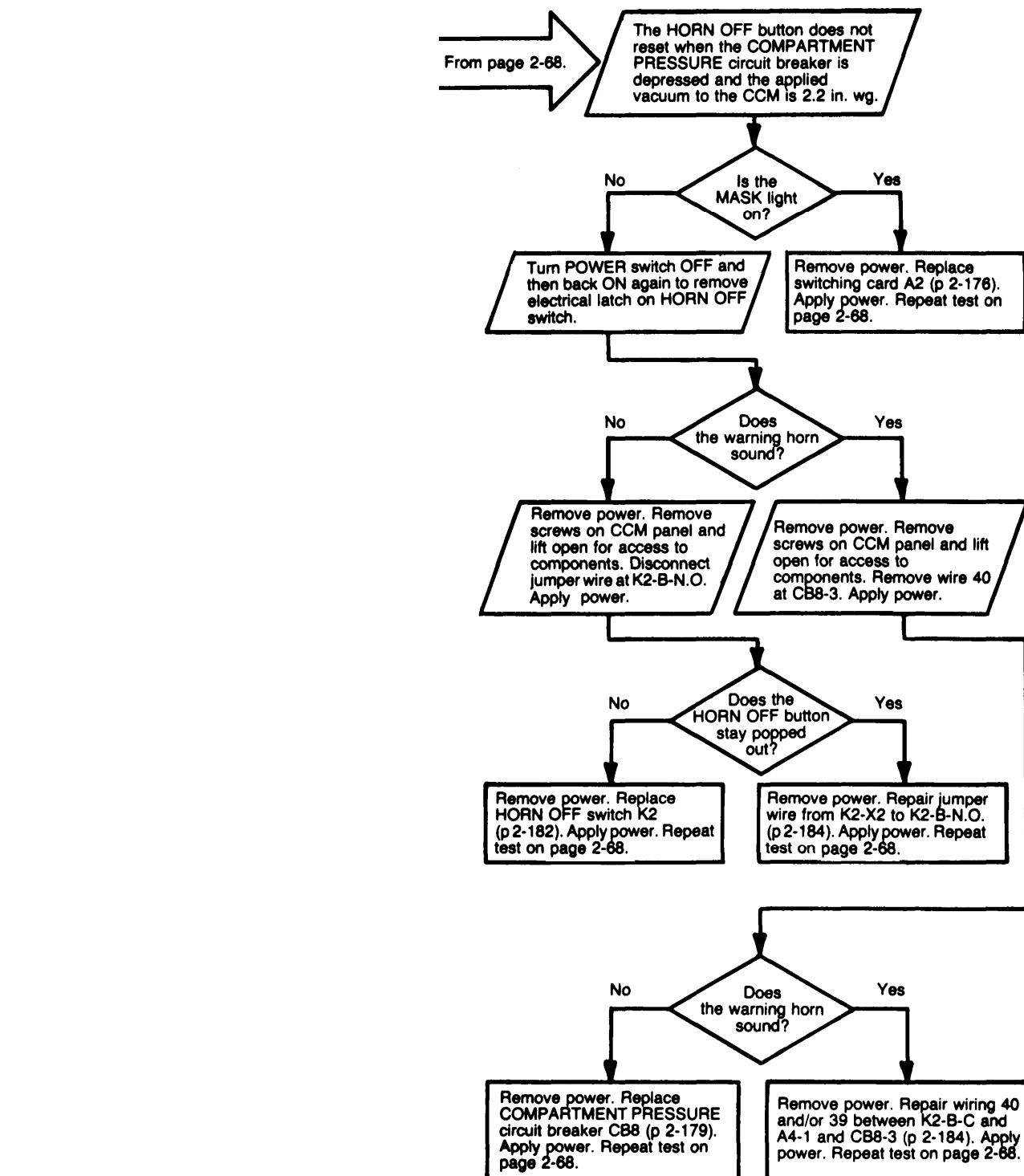
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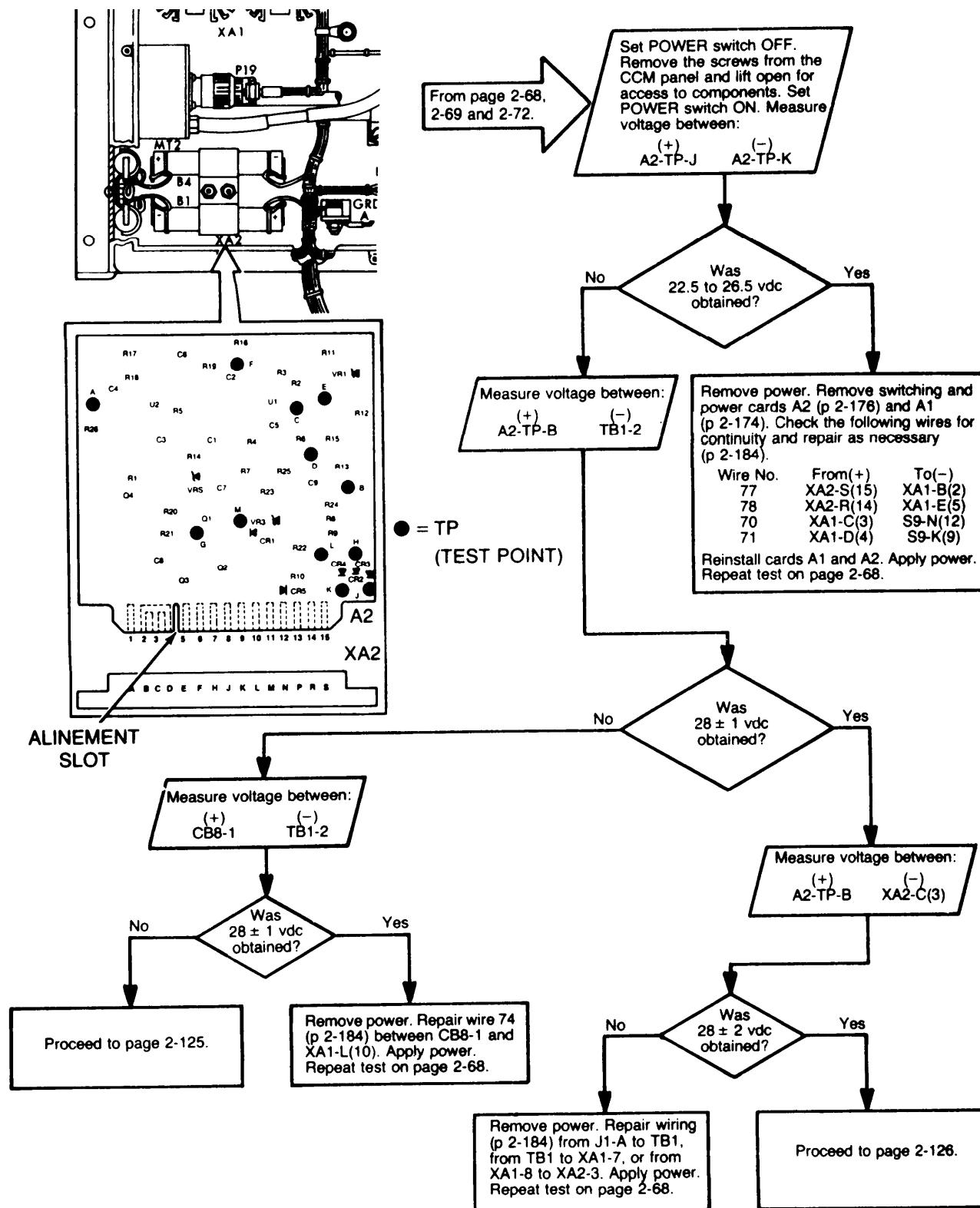
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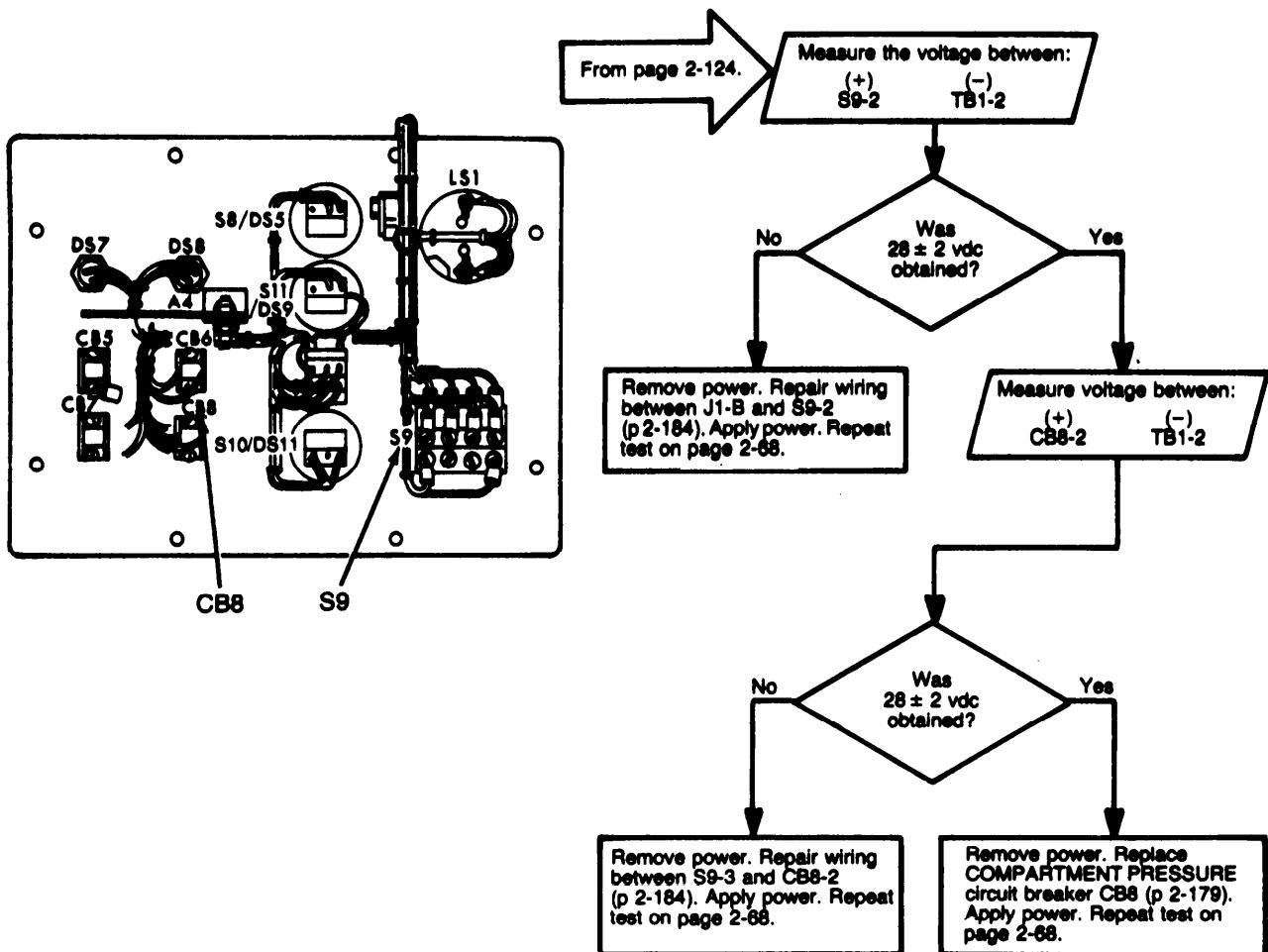
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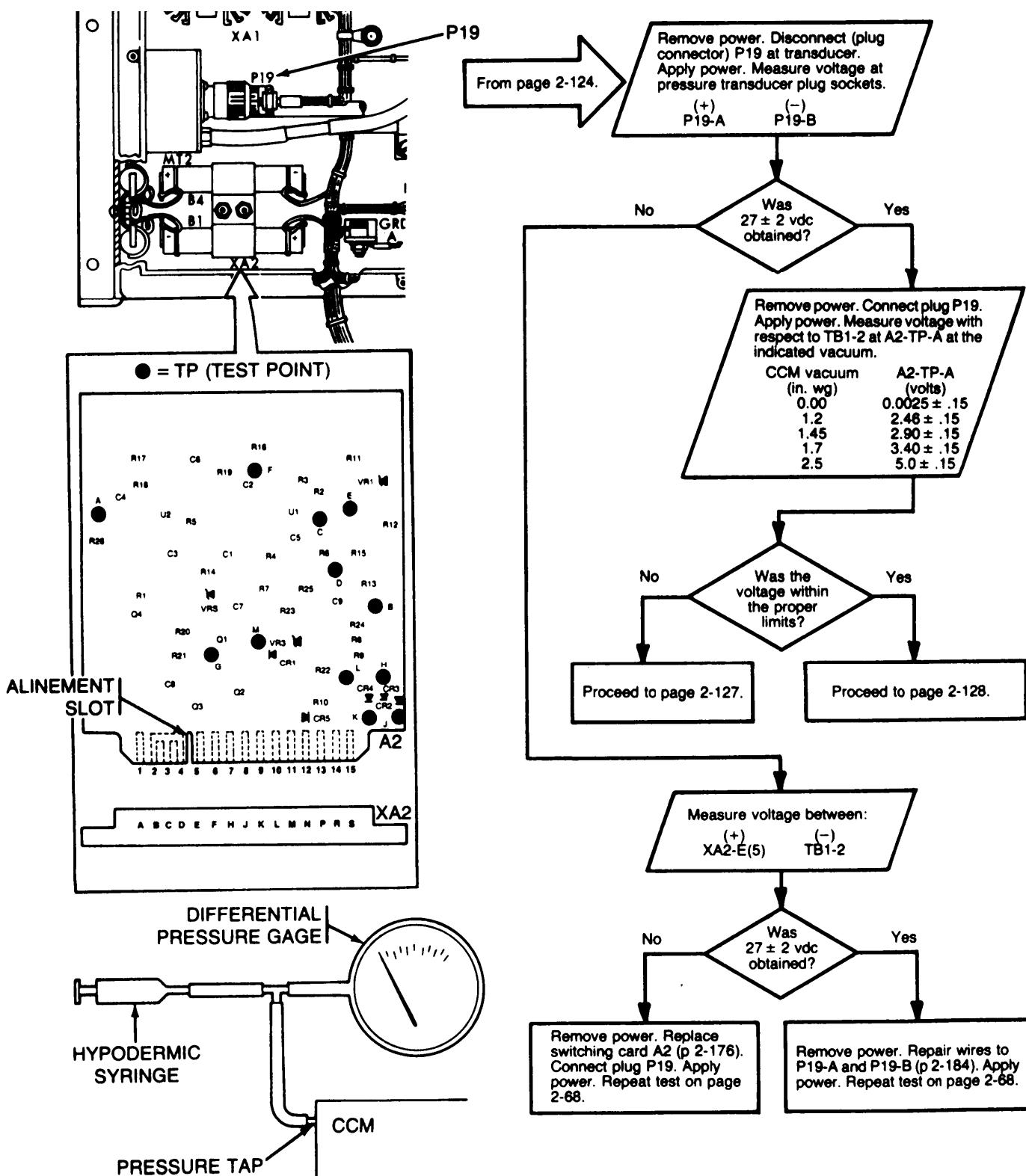
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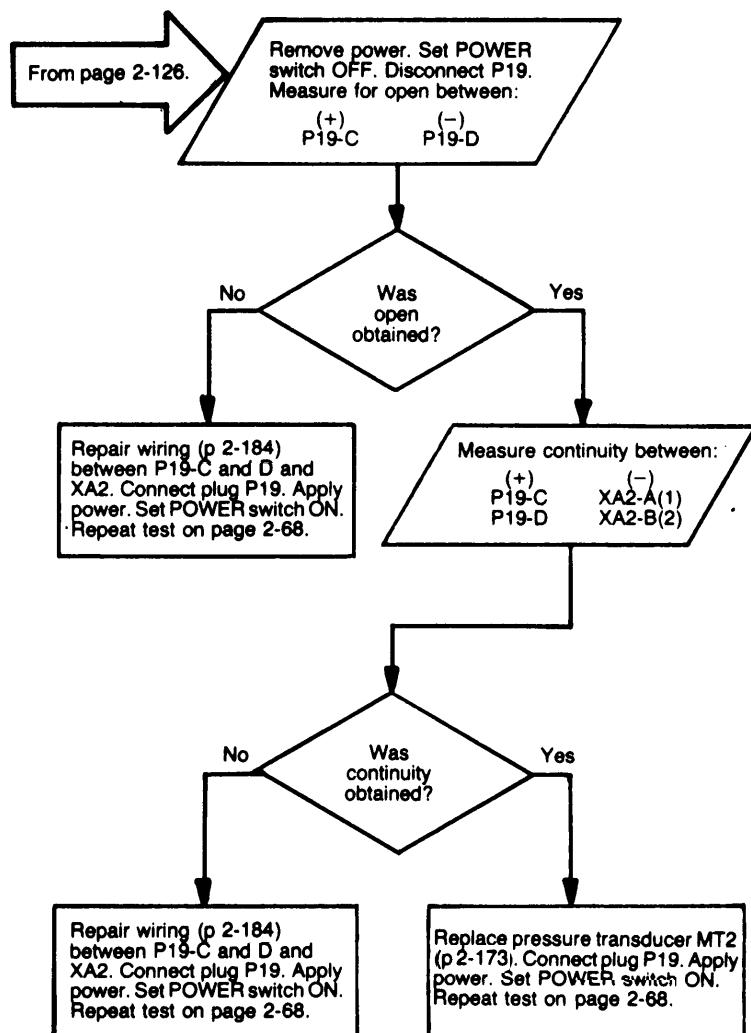
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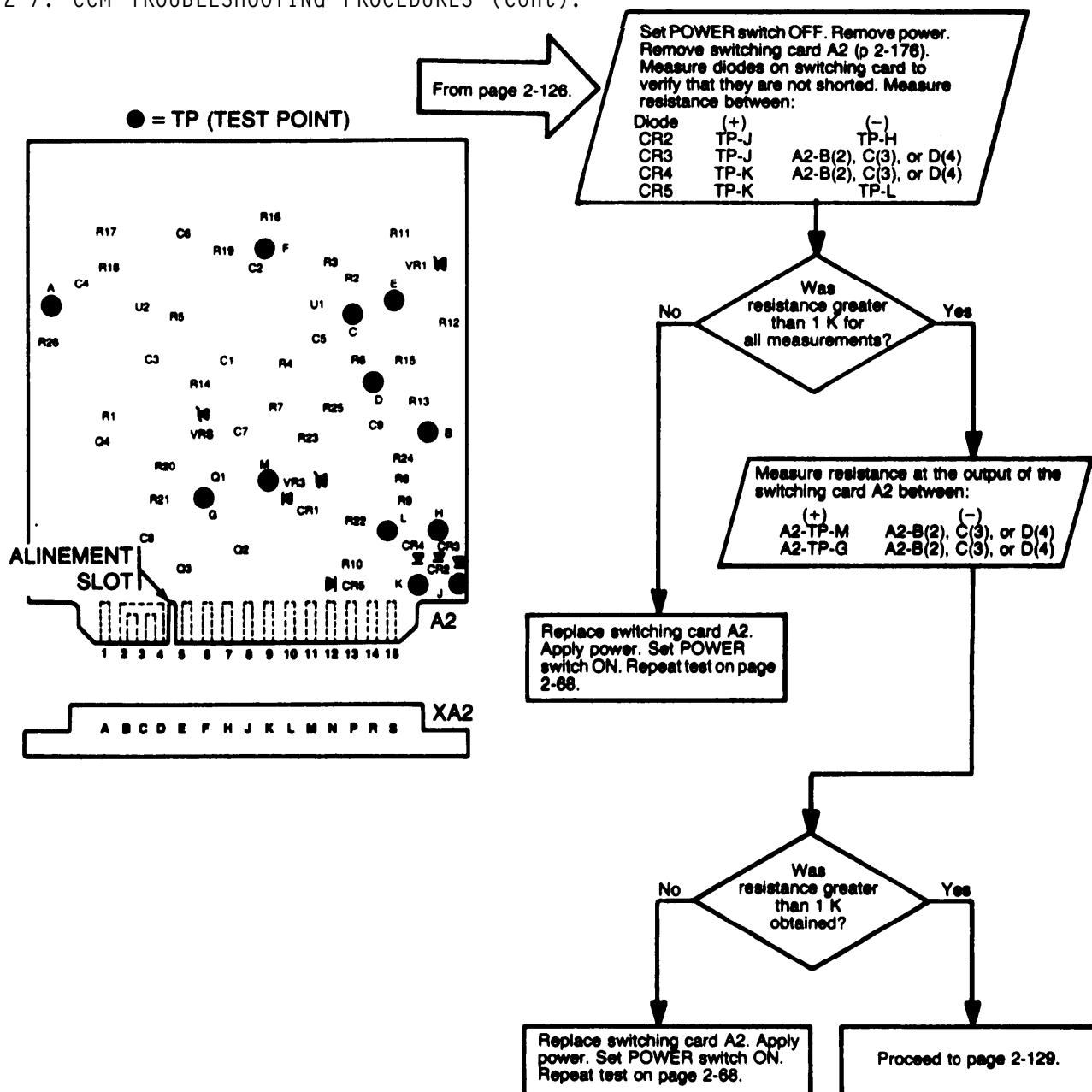
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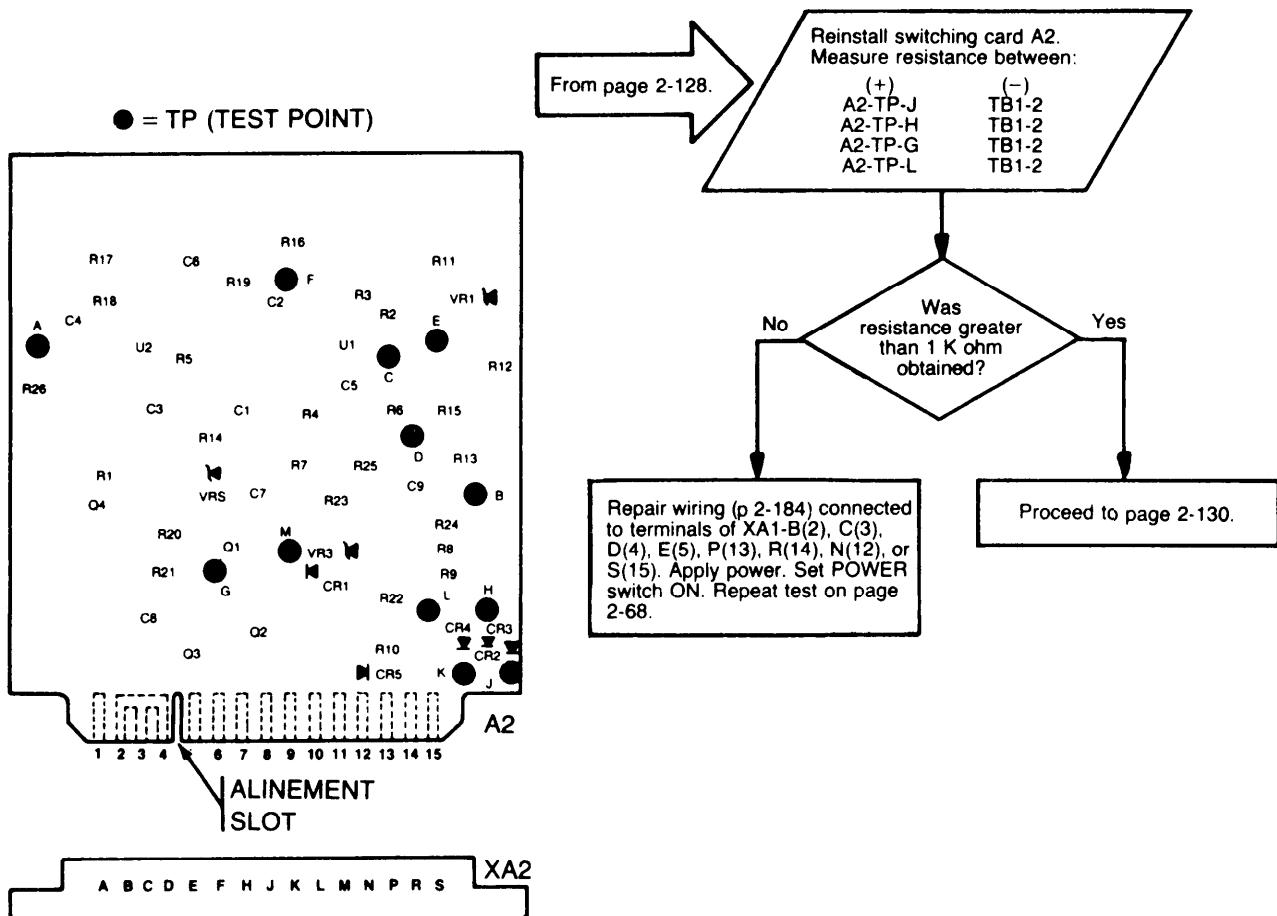
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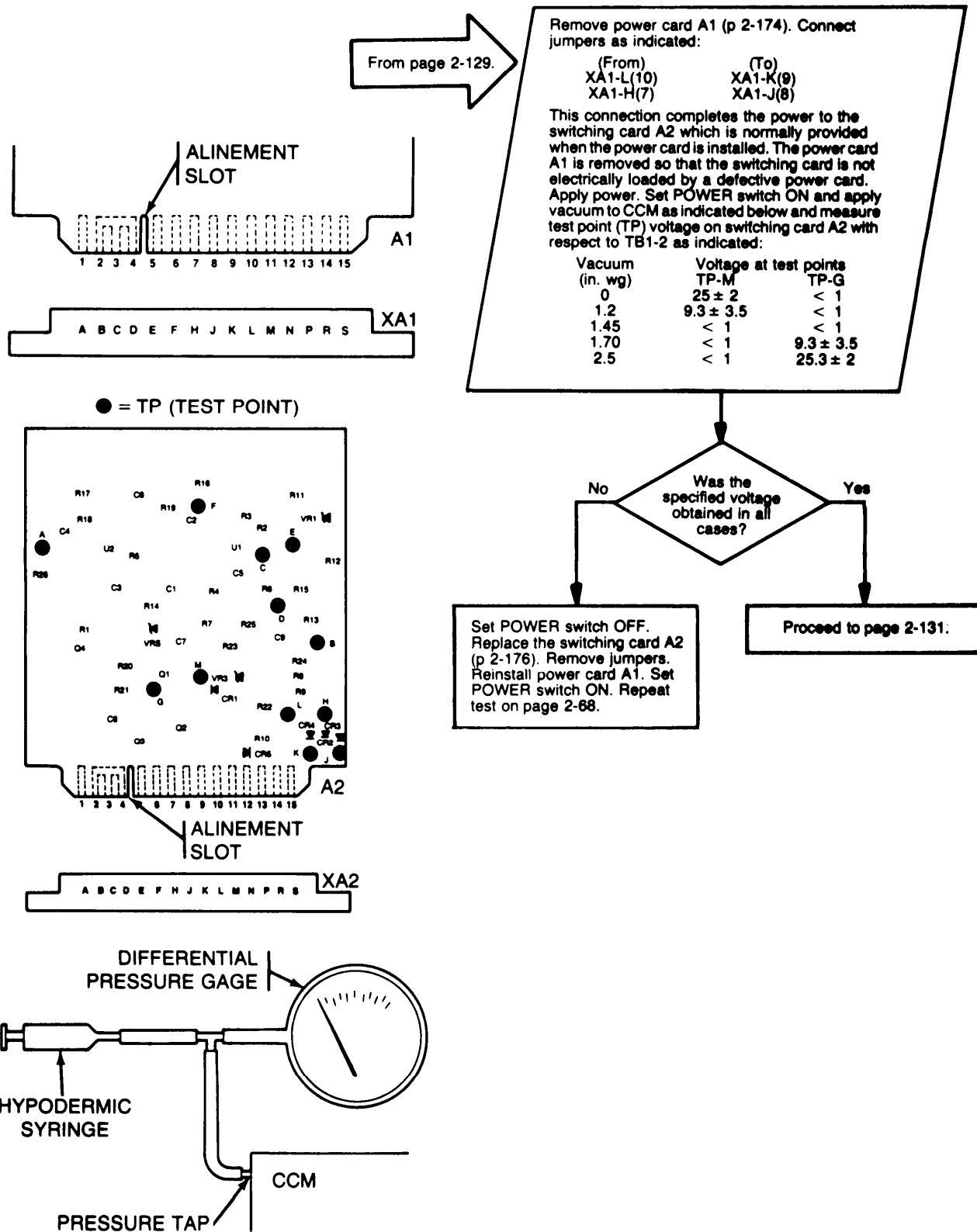
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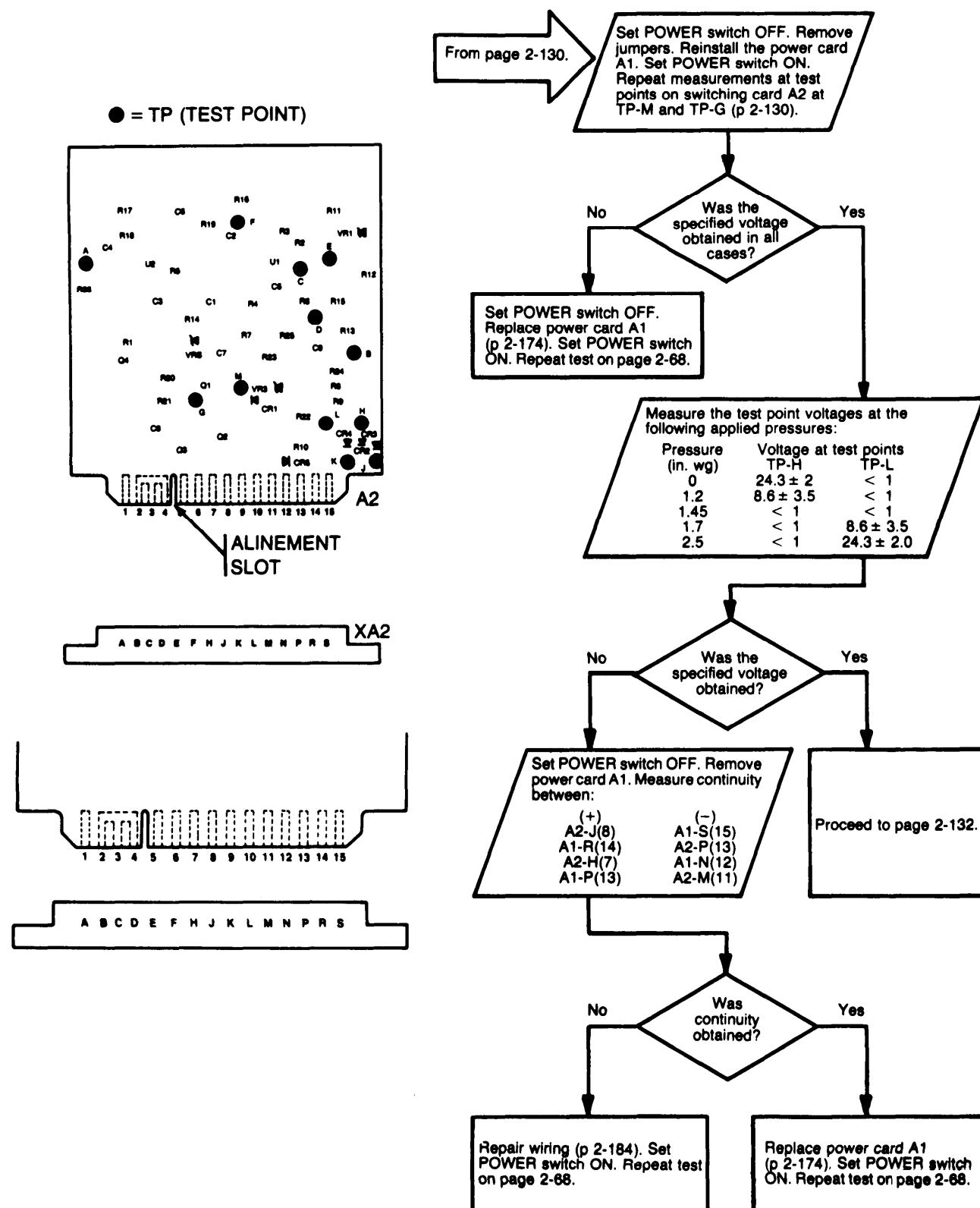
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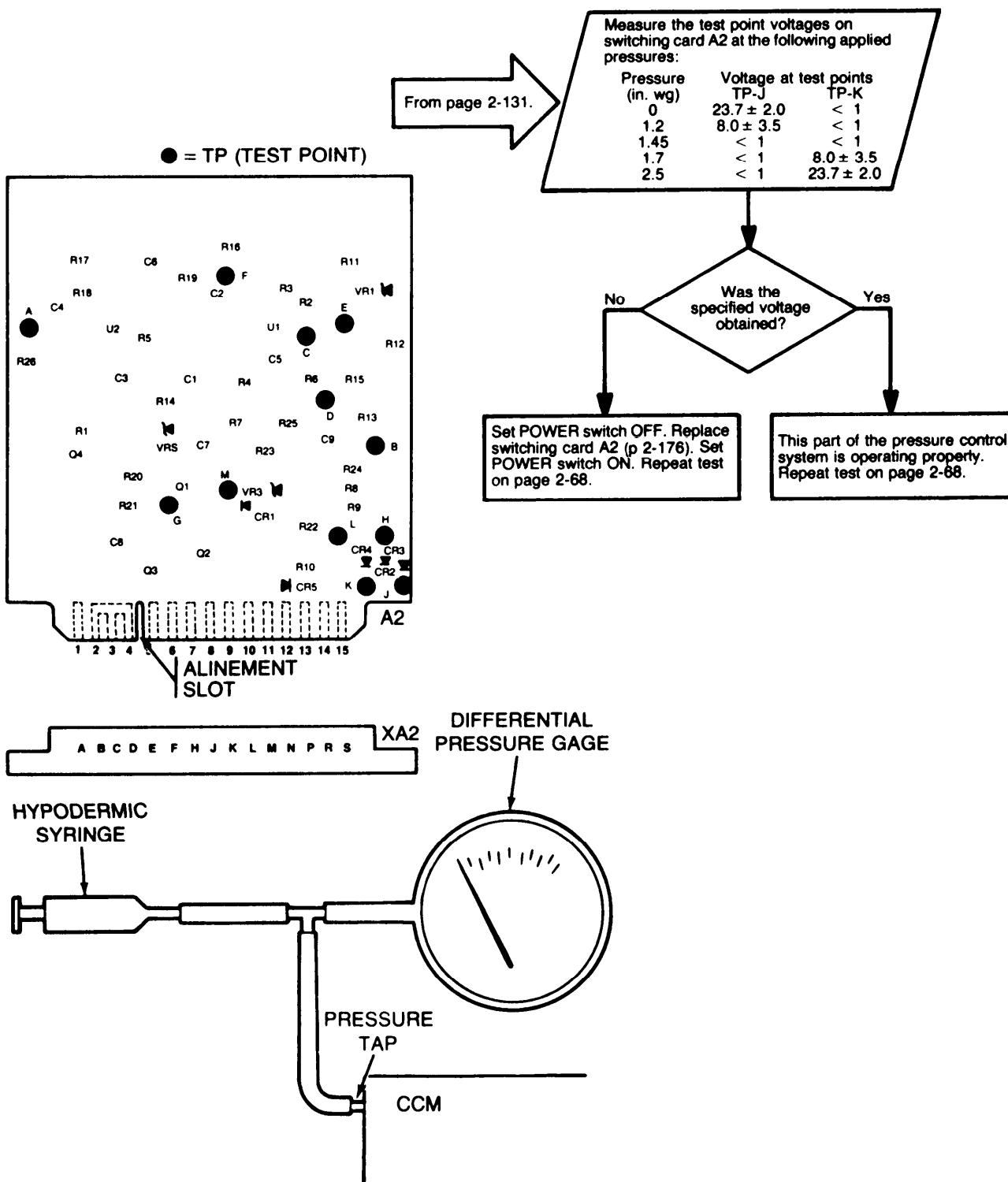
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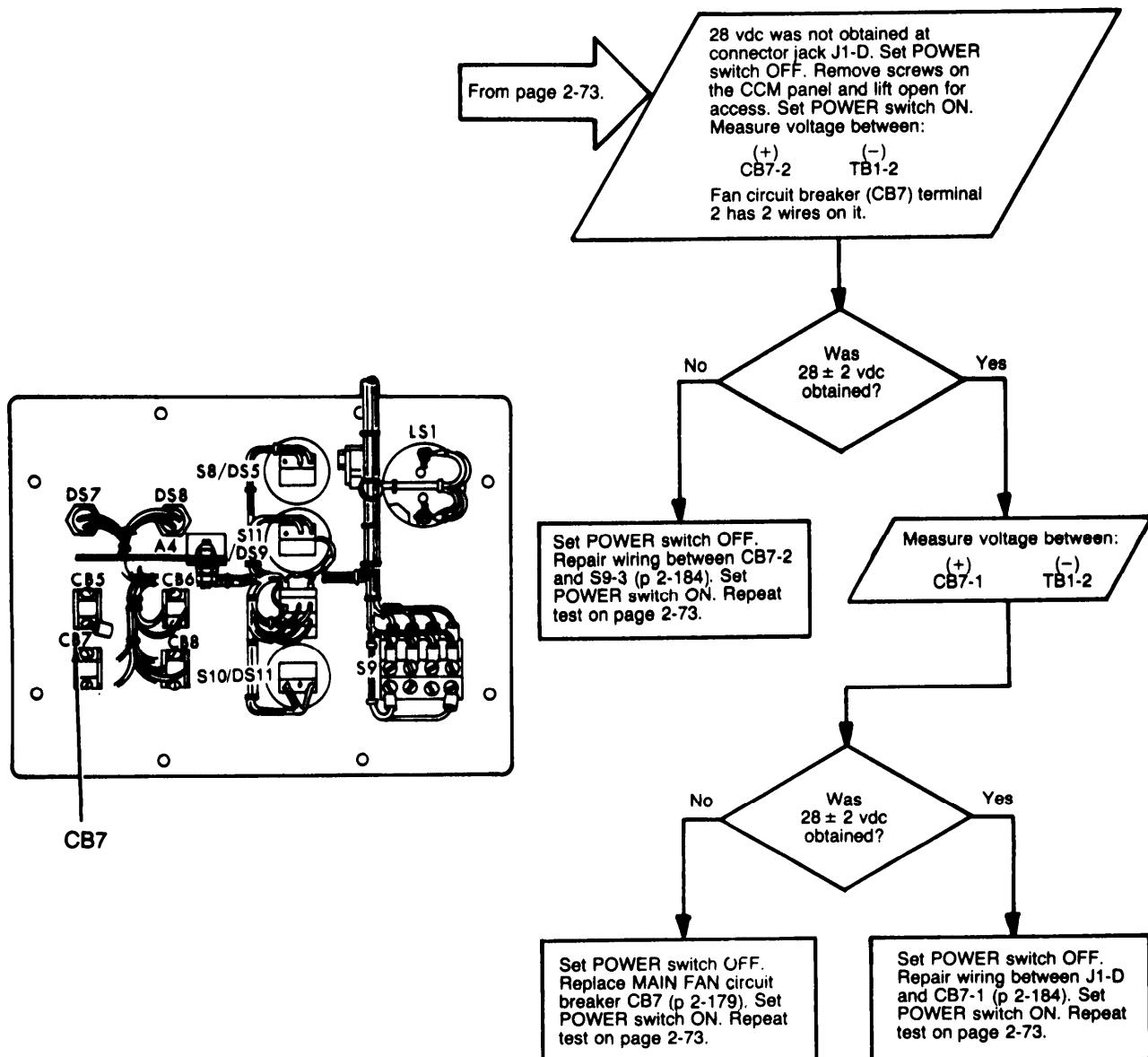
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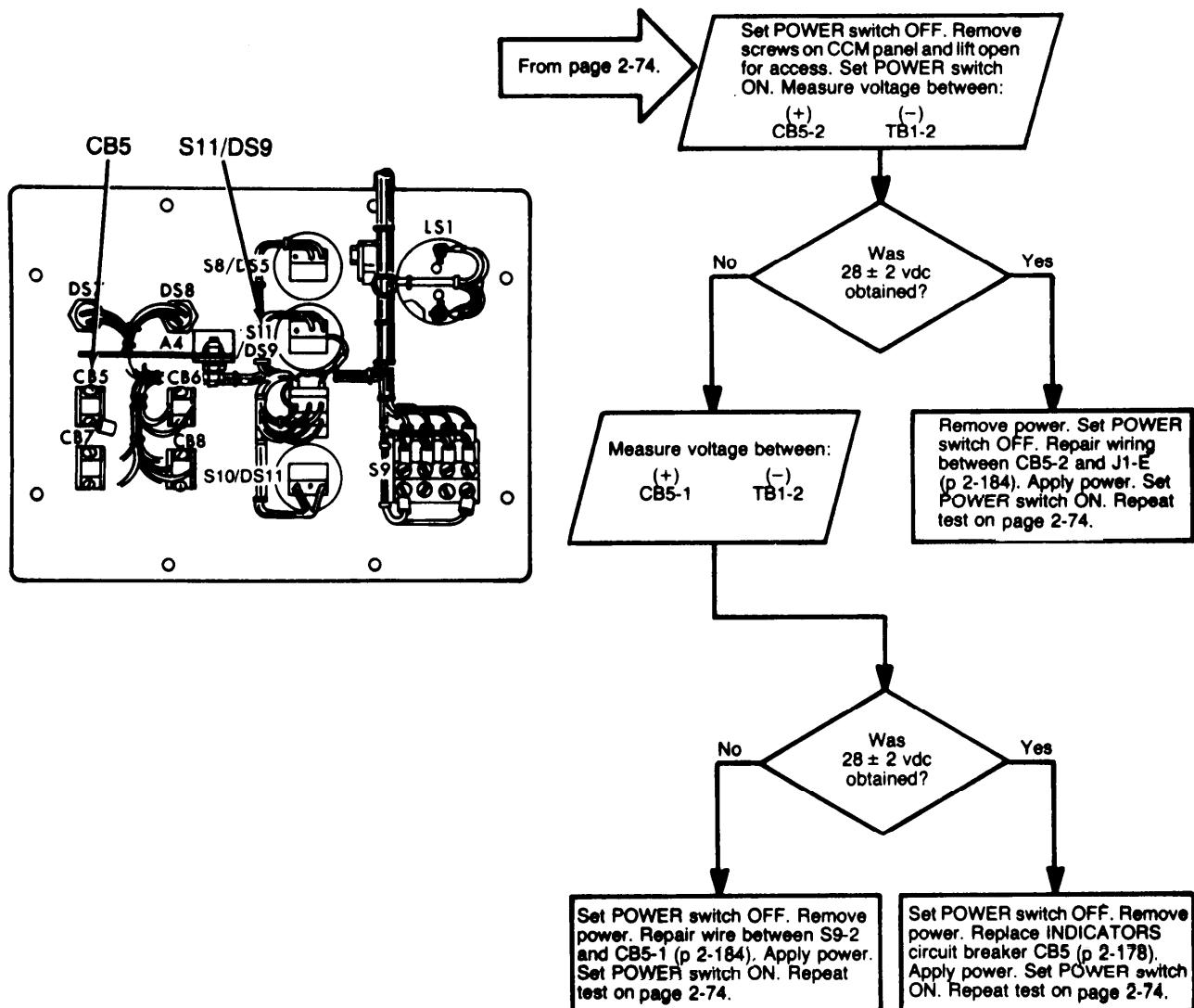
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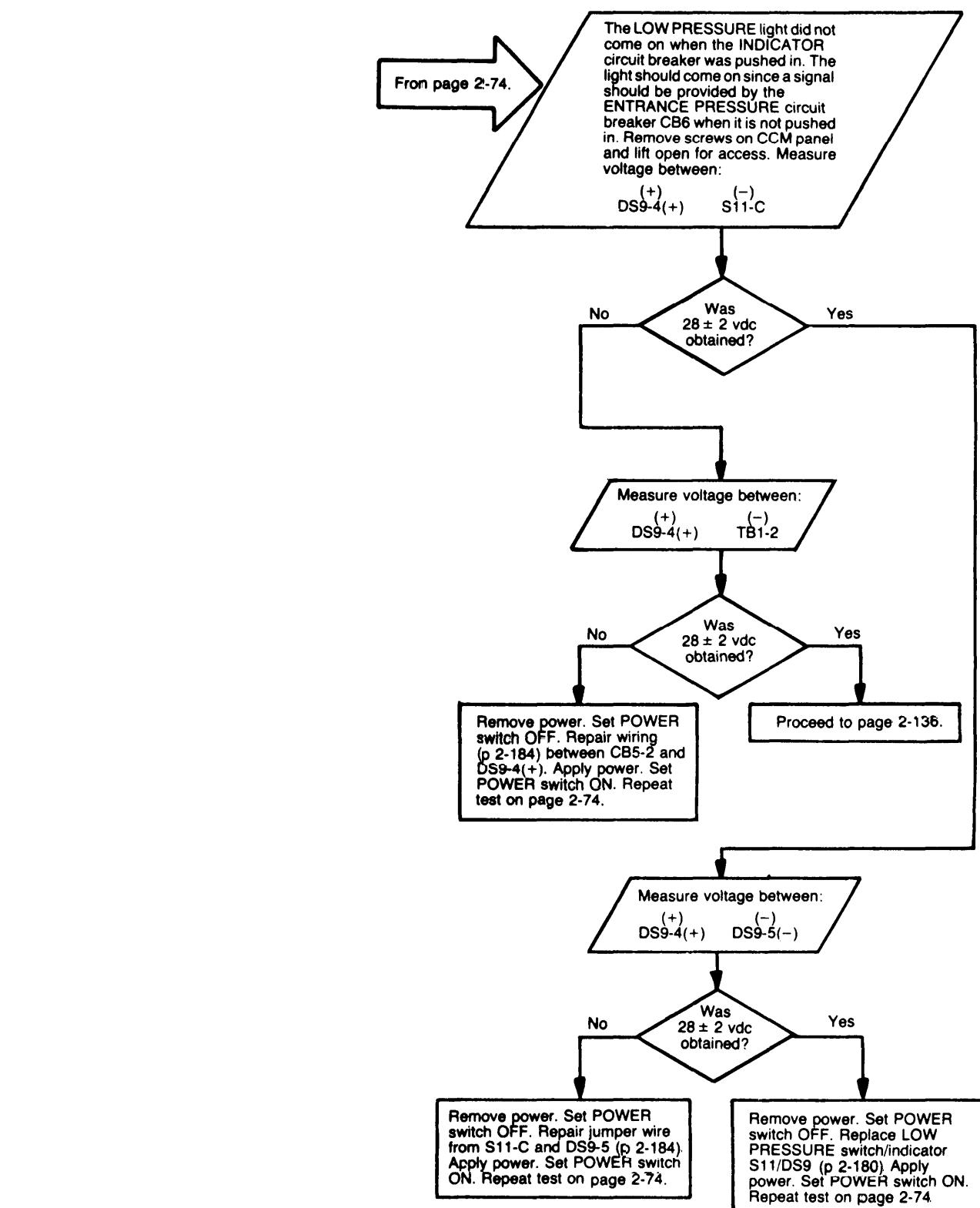
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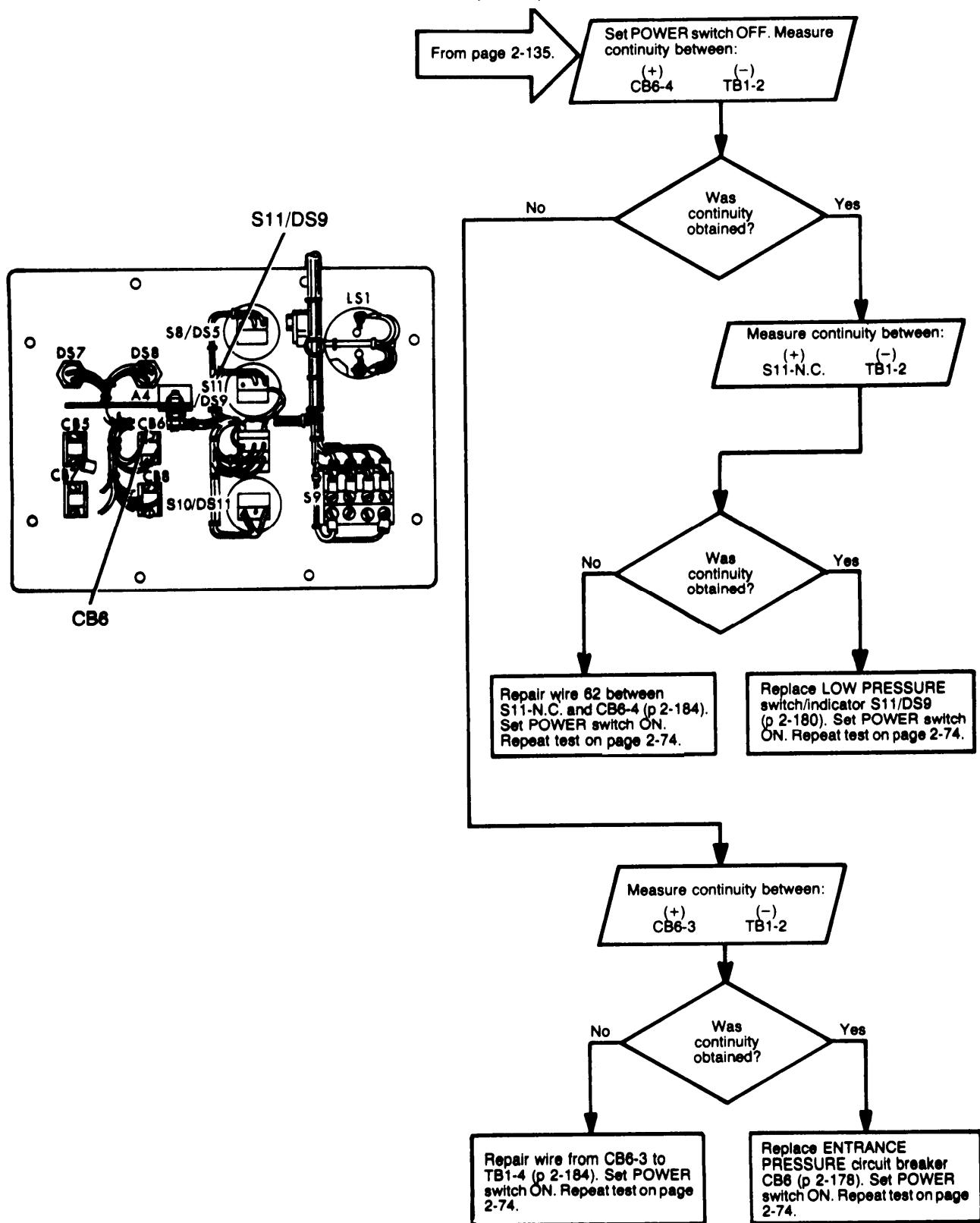
2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



2-7. CCM TROUBLESHOOTING PROCEDURES (Cont.).



Section II. MAINTENANCE PROCEDURES FOR M12 PROTECTIVE ENTRANCE

2-8. Scope.

- a. This section contains repair procedures for component parts of the M 12 protective entrance.
- b. Disassemble only as necessary to gain access to desired components.

c. Illustrations are configured to show access to the specific components being addressed and may not show the true position of the item or items being maintained or disassembled.

d. Identify wiring prior to unsoldering connection to simplify reassembly.

2-9. PROTECTIVE ENTRANCE CONTROL MODULE - MAINTENANCE INSTRUCTIONS.

This task covers:

- a. Disassembly
- b. Repair
- c. Reassembly
- d. Removal
- e. Installation

Tools

Electronic Equipment Tool
Kit TK-105/G (SC 5180-91-CL-R07)

Troubleshooting References

Refer to page 2-2.

References

TB SIG 222

Equipment Condition

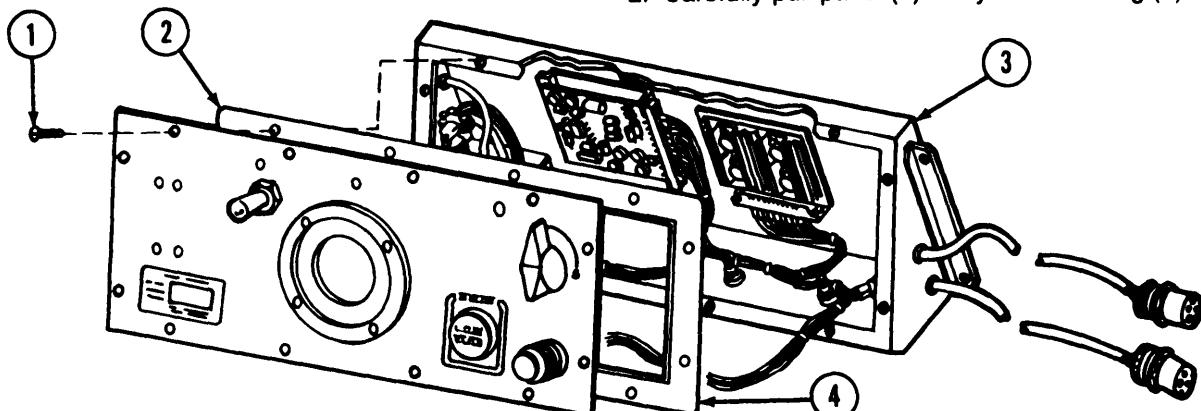
PECM removed from the protective entrance.

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

DISASSEMBLY

Protective entrance control module

1. Remove twelve screws (1) from panel (2).
2. Carefully pull panel (2) away from housing (3).



REPAIR

Gasket

Replace gasket (4) if defective.

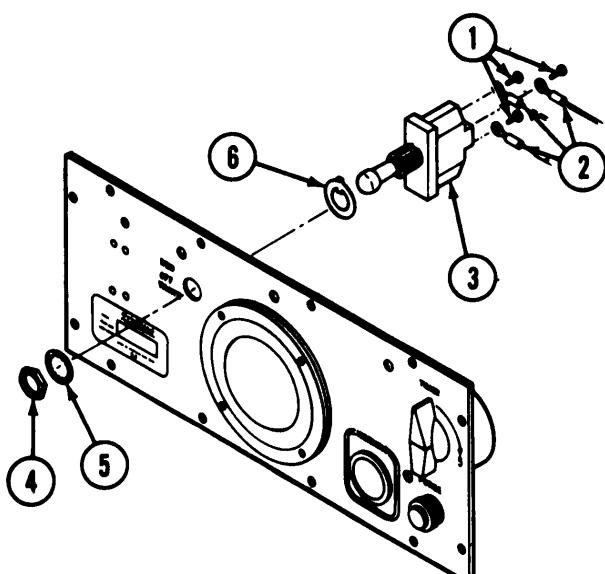
REASSEMBLY

Protective entrance control module

1. Place panel (2) on housing (3) and secure with twelve screws (1).

2-9. PROTECTIVE ENTRANCE CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont).

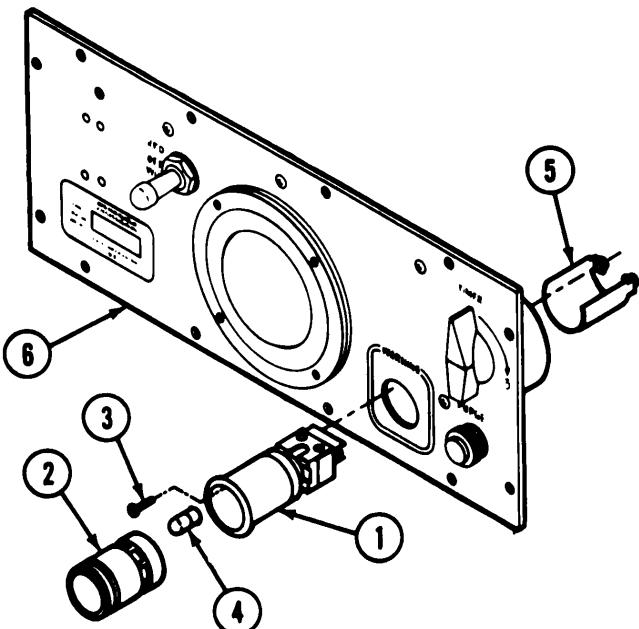
| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**Panel****Toggle switch****REMOVAL**

1. Disassemble PECM (page 2-137).
2. Remove three screws (1) and wires (2) from toggle switch (3).
3. Remove nut (4) and washer (5).
4. Remove toggle switch (3) and keying washer (6).

INSTALLATION

1. Install keying washer (6) on toggle switch (3).
2. Insert toggle switch in panel and secure with washer (5) and nut (4).
3. Attach wires (2) to toggle switch using three screws (1). Refer to page 2-142.
4. Reassemble PECM (page 2-137).

REMOVAL/INSTALLATION**Panel****LOW PRESSURE
switch/indicator****REMOVAL**

1. Disassemble PECM (page 2-137).
2. Unsolder wires from LOW PRESSURE switch/indicator light (1).
3. Pry out lamp module (2).
4. Remove two screws (3) and two lamps (4).
5. Remove sleeve (5) from back of panel (6) and pull LOW PRESSURE switch/indicator light (1) from front of panel (6).

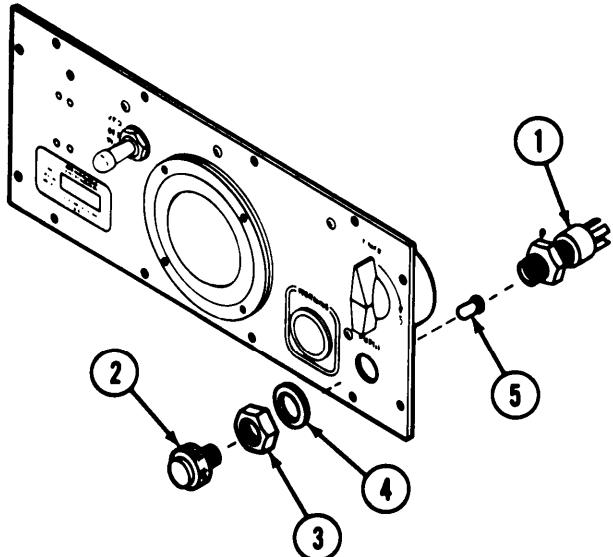
INSTALLATION

1. Insert LOW PRESSURE switch/indicator light (1) in panel.
2. Place sleeve (5) over LOW PRESSURE switch/indicator light and secure with screws (3). Install lamps (4).
3. Press lamp module (2) into LOW PRESSURE switch/indicator light.
4. Connect and solder wires to LOW PRESSURE switch/indicator light. Refer to page 2-142.
5. Reassemble PECM (page 2-137).

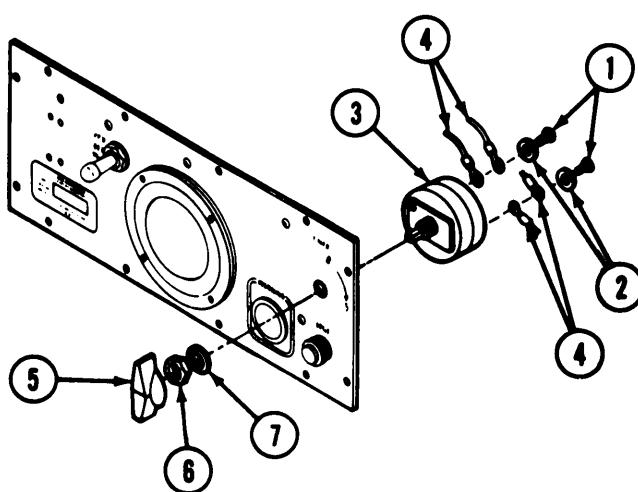
2-9. PROTECTIVE ENTRANCE CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Panel**PURGE indicator light**

REMOVAL/INSTALLATION

Panel**TIMER switch**

REMOVAL

1. Disassemble PECM (page 2-137).
2. Remove insulating tubing and unsolder wires from PURGE indicator light (1).
3. Unscrew knurled lens (2) and nut (3).
4. Remove washer (4) and PURGE indicator light (1).
5. Remove lamp (5) from PURGE indicator light.

INSTALLATION

1. Install lamp (5) in PURGE indicator light (1).
2. Insert PURGE indicator light in panel and install washer (4) and nut (3).
3. Install knurled lens (2).
4. Place insulating tubing over wires.
5. Connect and solder wires to PURGE indicator light. Refer to page 2-142.
6. Reassemble PECM (page 2-137).

REMOVAL

1. Disassemble PECM (page 2-137).
2. Remove two screws (1) and two washers (2) from TIMER switch (3). Remove wires (4).
3. Loosen setscrew and remove knob (5).
4. Remove nut (6) and washer (7) from TIMER switch (3).
5. Remove TIMER switch (3).

INSTALLATION

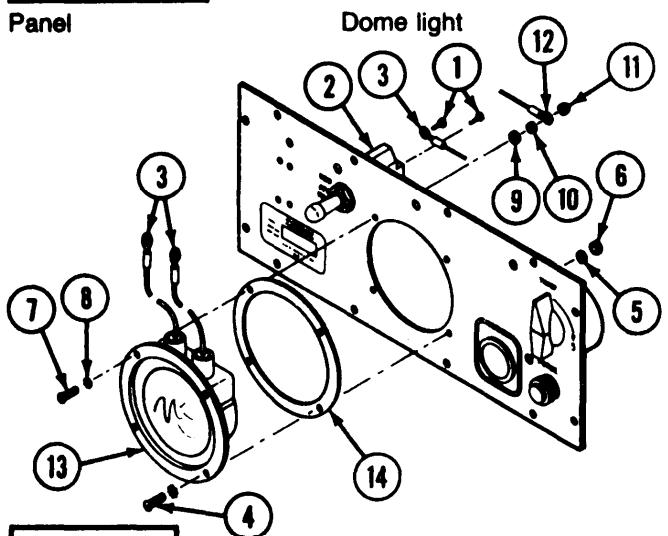
1. Install TIMER switch (3) in panel using washer (7) and nut (6).
2. Position knob (5) on shaft of TIMER switch with pointer at the zero mark on panel.
3. Tighten setscrew in knob.
4. Install wire leads (4) on TIMER switch using washers (2) and screws (1). Refer to page 2-142.
5. Reassemble PECM (page 2-137).

2-9. Protective ENTRANCE CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL

Panel



REPAIR

Gasket

1. Disassemble PECM (page 2-137).
2. Remove two screws (1) from toggle switch (2) and release wires (3).
3. Remove three screws (4), nonmetallic washers (5), and nuts (6).
4. Remove one screw (7), washers (8 and 9), nuts (10 and 11), and wire (12).
5. Remove dome light (13) and gasket (14).

INSTALLATION

Dome
light

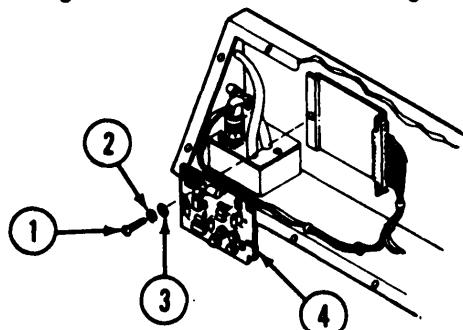
Fabricate gasket (fig D-1, app D).

1. Install gasket (14) and dome light (13) in panel using three screws (4), washers (5) and nuts (6).
2. Install wire lead (12) on one screw (7) and secure with washers (8 and 9) and nuts (10 and 11). Install wire leads (3) on toggle switch (2) using two screws (1). Refer to page 2-142.
3. Reassemble PECM (page 2-137).

REMOVAL/INSTALLATION

Housing

Switching card



REMOVAL

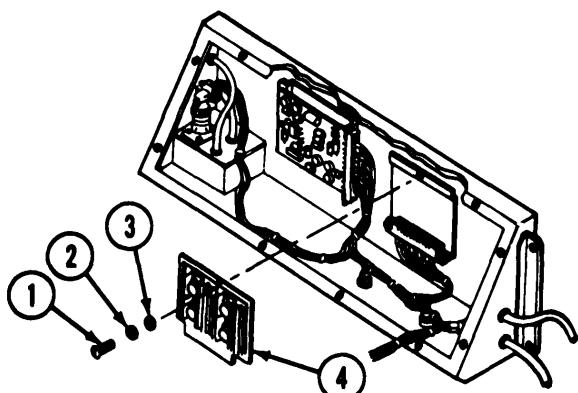
1. Disassemble PECM (page 2-137).
2. Remove screw (1) and washers (2 and 3).
3. Lift switching card (4) slightly and pull from socket.

INSTALLATION

1. Insert switching card (4) into socket in housing.
2. Secure switching card with screw (1) and washers (2 and 3).
3. Reassemble PECM (page 2-137).

2-9. PROTECTIVE ENTRANCE CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cent).

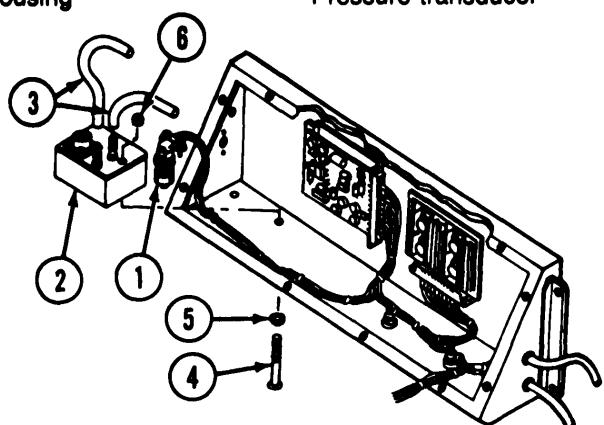
| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**Housing****Power card****REMOVAL**

1. Disassemble PECM (page 2-137).
2. Remove screw (1) and washers (2 and 3).
3. Lift power card (4) slightly and pull from socket.

INSTALLATION

1. Insert power card (4) into socket in housing.
2. Secure power card (4) with screw (1) and washers (2 and 3).
3. Reassemble PECM (page 2-137).

REMOVAL**Housing****Pressure transducer****REPAIR****Nonmetallic tubing**

1. Disassemble PECM (page 2-137).
2. Remove connector plug (1) from pressure transducer (2).
3. Remove tubing (3).
4. Remove two screws (4), washers (5), and nuts (6).
5. Remove pressure transducer (2).

Fabricate replacement tubing (3) from NSN 9330-01-073-1011 stock. Cut to same length as tubing being replaced.

INSTALLATION**Pressure transducer**

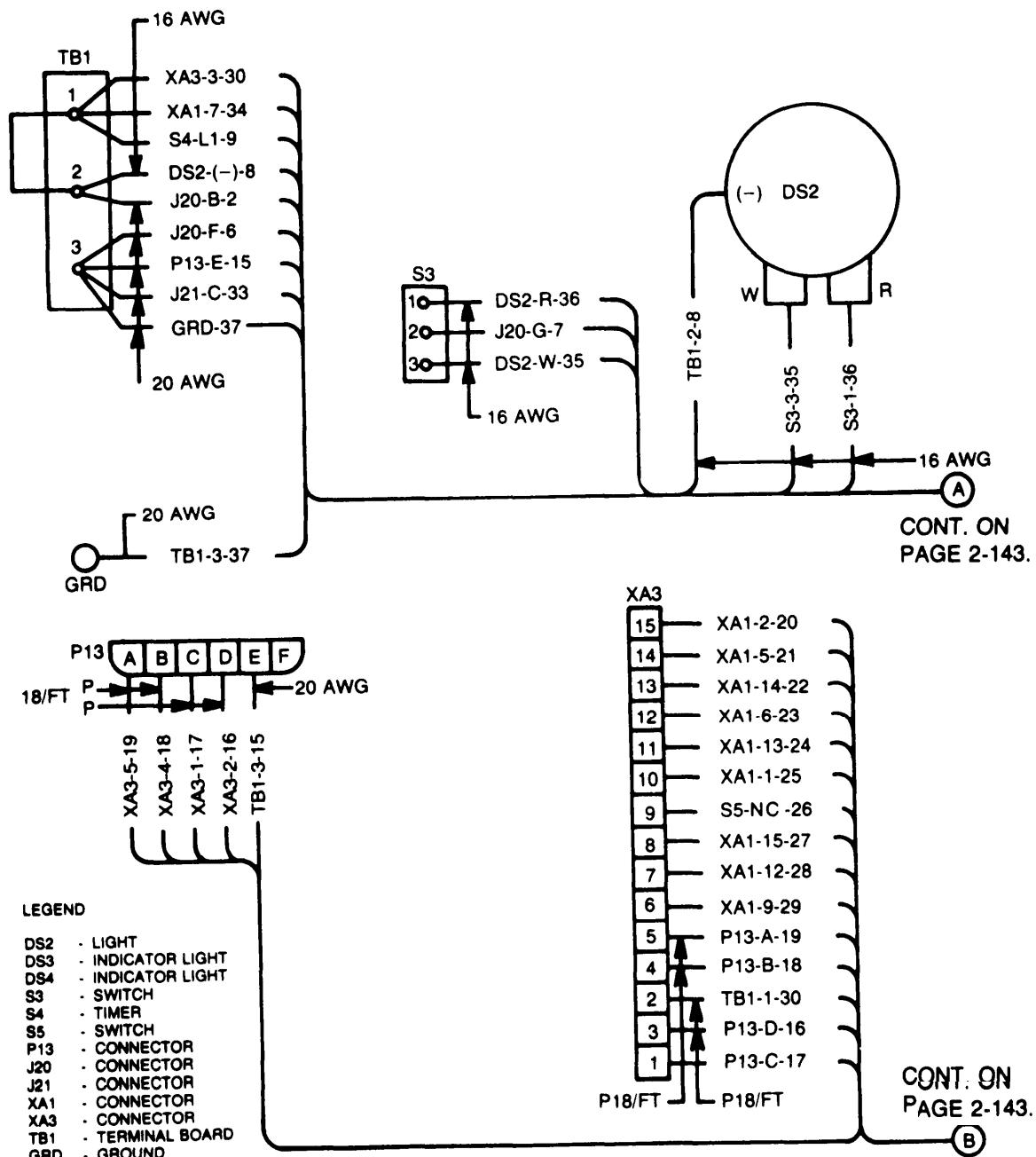
1. Place transducer (2) in housing and secure with two screws (4), washers (5), and nuts (6).
2. Install tubing (3).
3. Connect plug (1) to transducer.
4. Reassemble PECM (page 2-137).

2-9. PROTECTIVE ENTRANCE CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REPAIR

Protective entrance control Wiring
module



2-9. PROTECTIVE ENTRANCE CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont).

| LOCATION | ITEM | ACTION |
|------------------------------------|--------|--------|
| REPAIR (Cont) | | |
| Protective entrance control module | Wiring | |
| <p>CONT. ON PAGE 2-142.</p> | | |
| <p>CONT. FROM PAGE 2-142.</p> | | |
| | | |

Section III. MAINTENANCE PROCEDURE FOR M56 GAS-PARTICULATE FILTER UNIT

2-10. General.

- a. This section contains repair procedures for component parts of the M56 Gas-particulate Filter Unit,
- b. Disassemble only as necessary to gain access to desired components.

c. Illustrations are configured to show access to the specific components being addressed and may not show the true position of the item or items being maintained or disassembled.

2-11. MAIN FAN - MAINTENANCE INSTRUCTIONS.

This task covers:

- a. Removal
 - b. Disassembly
 - c. Installation
 - d. Reassembly
-

INITIAL SETUP

Troubleshooting References

Refer to page 2-32.

Equipment Condition

Main fan removed from filter unit.

Tools

General mechanics tool kit SC 5180-90-CL-N26
Puller kit 5120-00-289-9597

Torque wrench 5120-00-247-2536

Micrometer depth gage 5210-00-619-4045

Arbor press 3444-00-243-2655

(or equivalent)

Materials

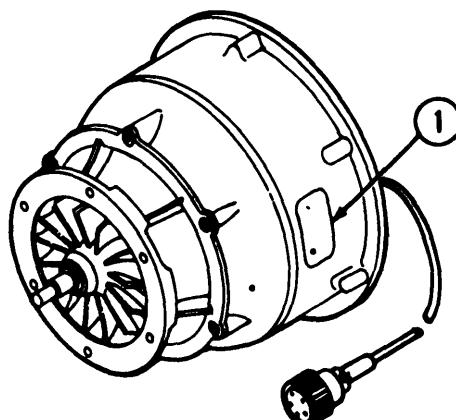
Coating, aliphatic polyurethane (item 3, app C)
Dry cleaning solvent (item 4, app C)
Grease (item 5, app C)

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Main Fan

Identification plate



REMOVAL

1. Lift edge of plate (1) with a sharp tool.
2. Pull plate completely off the mounting surface.

INSTALLATION

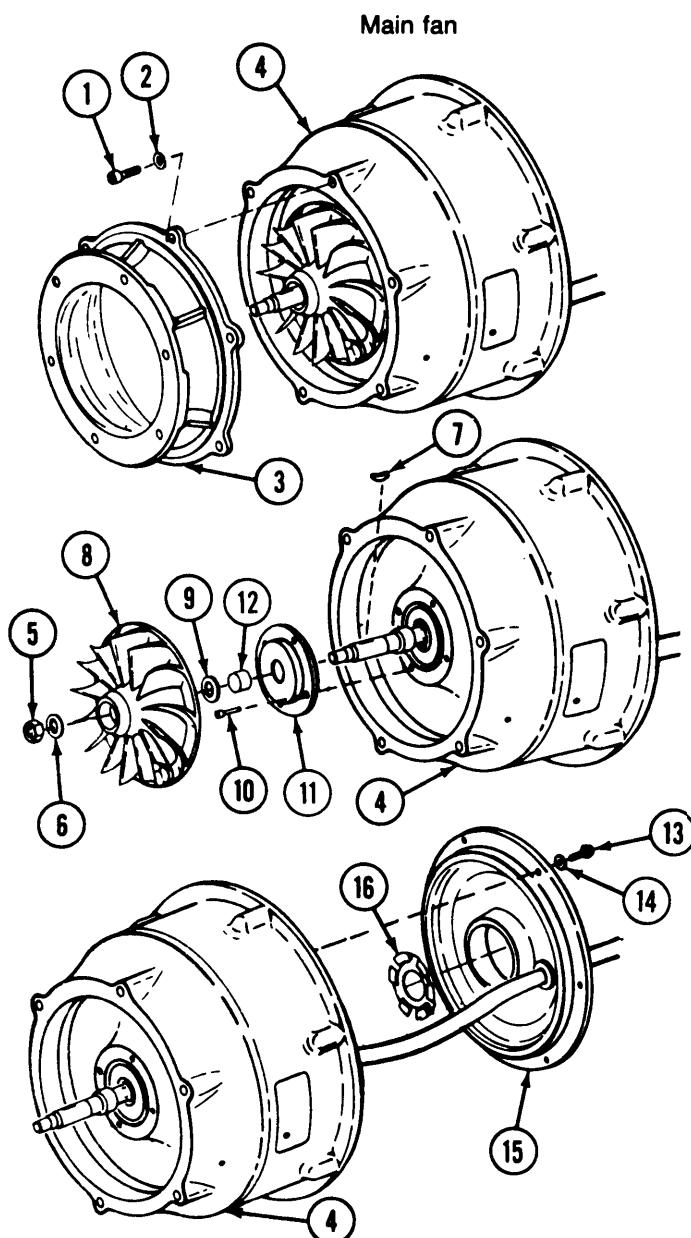
1. Thoroughly clean mounting surface with dry cleaning solvent (item 4, app C). Mounting surface must be free of all contamination such as oil, grease, dirt, or any foreign matter.
2. Activate the back of the plate with dry cleaning solvent (item 4, app C).
3. Mount plate (1) and apply pressure to the plate surface.
4. Spray or brush plate with aliphatic polyurethane coating (item 3, app C).

2-11. MAIN FAN - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL

Main Fan Bearings | Disassemble main fan.

DISASSEMBLY

1. Remove six screws (1) and washers (2).
2. Remove impeller cover (3) from fan housing (4).

3. Remove impeller nut (5) and washer (6).
4. Remove impeller (8).
5. Remove woodruff key (7).
6. Remove shim (9).
7. Remove four screws (10), bearing retainer plate (11), and bushing (12).

CAUTION

When removing the motor cover (15) from the fan housing (4), use care not to pull the stator electrical wires from ground.

8. Remove six screws (13) and washers (14).
9. Carefully remove motor cover (15) from fan housing (4). Slide the motor cover (15) back onto the electrical cable.

NOTE

Use care not to lose loading spring washer (16), as it will fall free when the motor cover is removed from the fan housing.

2-11. MAIN FAN - MAINTENANCE INSTRUCTIONS (Cont).

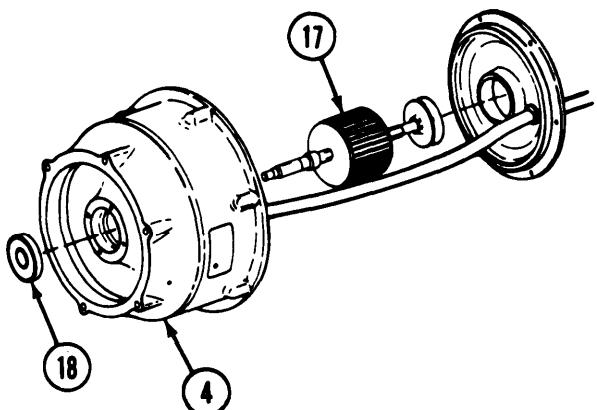
| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

DISASSEMBLY (Cont)

Main fan

CAUTION

Use care not to damage the rotor or nick rotor shaft journals when pressing rotor from bearing.



10. Using an arbor press, press rotor (17) from bearing (18) and out of fan housing (4).
11. Press bearing (18) from fan housing (4).

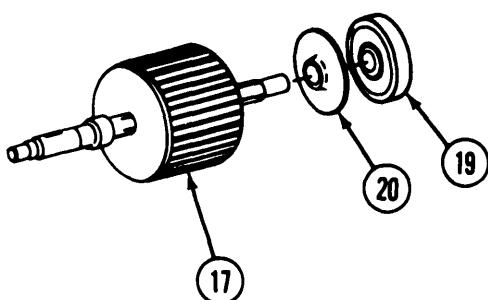
CAUTION

Use care not to damage the rotor or nick shaft journals when removing the bearing.

12. Remove bearing (19) from rotor (17) shaft using a standard bearing puller.

NOTE

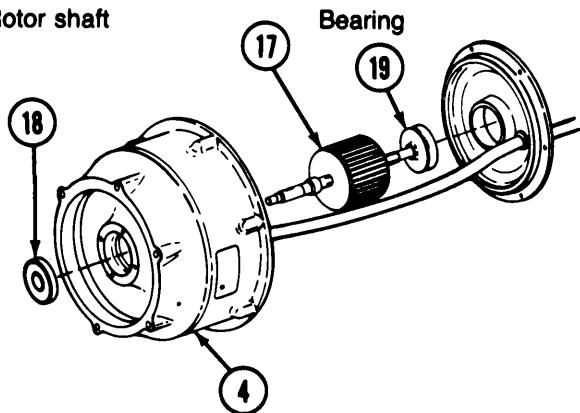
Use care not to lose deflector (20). It will fall free when bearing is removed.

INSTALLATION**Rotor shaft****Bearing**

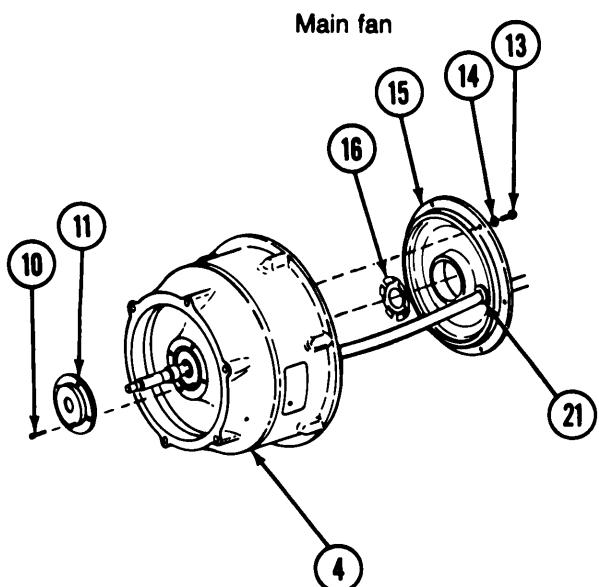
1. Install deflector (20) on rotor shaft. Press a new bearing (19) on the rotor (17) shaft (use an arbor press). Make sure the bearing is flush against the deflector and shaft shoulder.

2-11. MAIN FAN - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

INSTALLATION (Cont)**Rotor shaft****Bearing**

2. Install the rotor (17) in the fan housing (4).
3. Stand the fan housing on end with rotor shaft supported, and press a new bearing (18) on the input end of the rotor shaft, flush against the shaft shoulder.
4. Fill cavity of bearings (18 and 19) half full of grease (item 5, app C).

REASSEMBLY**Main fan**

1. Install loading spring washer (16) on the end of rotor shaft and press against the bearing with the fingers.
2. Position the motor cover in place on the fan housing (4). Work stator cable through rubber grommet (21) to remove slack while positioning. Seat bearing and loading spring washer in motor cover,

CAUTION

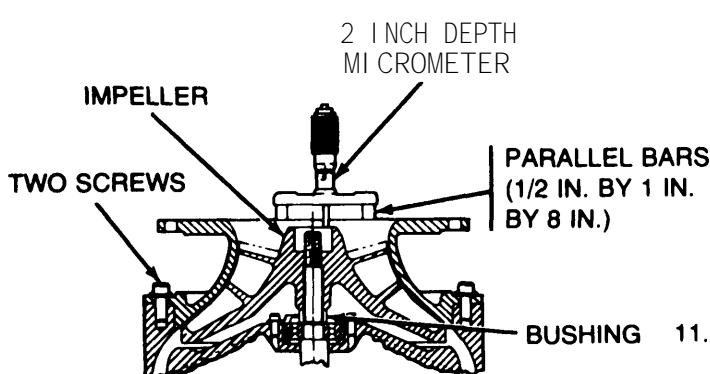
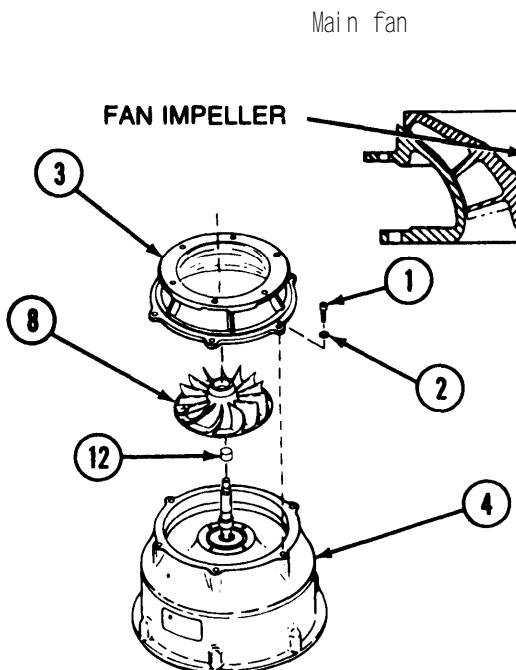
Make sure loading spring washer remains in place on the rotor shaft and bearing is fully seated before tightening screws.

3. Install six screws (13) and washers (14) in motor cover.
4. Install bearing retainer plate (11) with four screws (10) and torque to 20-23 inch-pounds,

2-11. MAIN FAN - MAINTENANCE INSTRUCTIONS (Cont.).

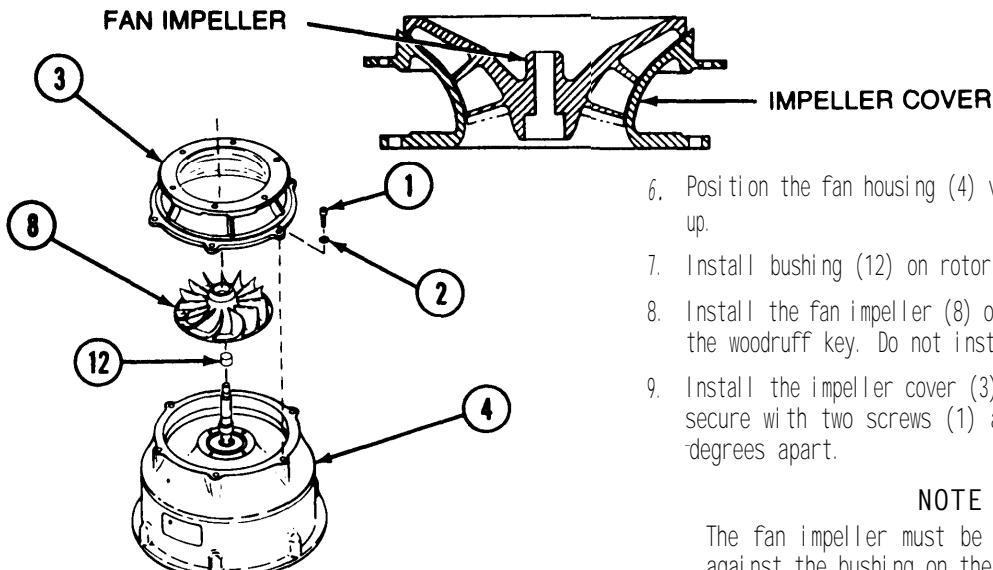
| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REASSEMBLY (Cont)



Main fan

5. Check the contour fit between the fan impeller and the impeller cover.



6. Position the fan housing (4) vertically with input end up.
7. Install bushing (12) on rotor shaft.
8. Install the fan impeller (8) on the rotor shaft without the woodruff key. Do not install self locking nut.
9. Install the impeller cover (3) on the fan housing and secure with two screws (1) and two washers (2) 180 degrees apart.

NOTE

The fan impeller must be firmly seated against the bushing on the rotor shaft in order to obtain an accurate reading for dimension "A".

10. With the fan impeller against bushing, use a 2 inch depth micrometer with two parallel bars (1/2 inch by 1 inch by 8 inches). Measure the distance from the top of the parallel bars to the machined surface on the fan impeller as shown. Record as dimension "A".

NOTE

The fan impeller must be firmly seated against the impeller cover to obtain an accurate reading for dimension "B".

11. Pull up on the fan impeller to seat against the impeller cover and take a second measurement using the same technique as in step 10 and record as dimension "B".

2-11. MAIN FAN - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

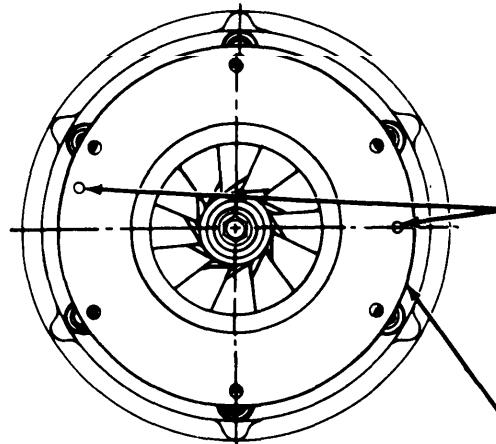
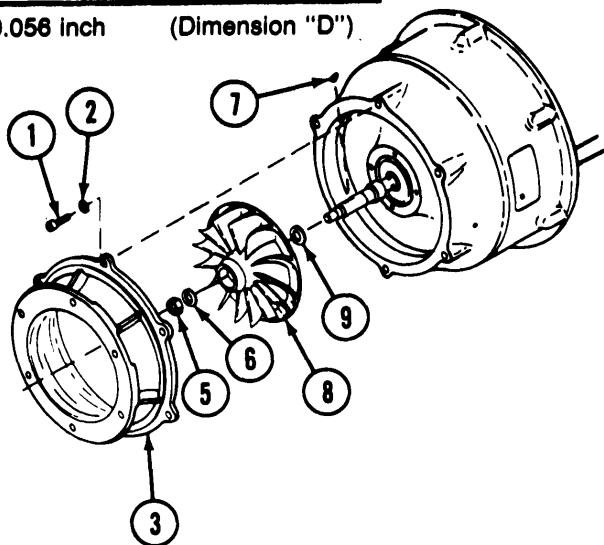
REASSEMBLY (Cont)

Example
Main Fan

1.152 inches (Dimension "A")
-1.086 inches (Dimension "B")

0.066 inch (Dimension "C")
-0.010 inch (Nominal)

0.056 inch (Dimension "D")



LOCATION OF
INSTALLATION
HOLES (WITH
STATOR CABLE
ON OUTPUT END
AT 6 O'CLOCK
POSITION)

IMPELLER COVER
VIEWED FROM
INPUT END

12. Subtract dimension "B" from dimension "A" as recorded in steps 10 and 11, the difference being dimension "C". (See example below.)
13. Subtract a nominal 0.010 inch from dimension "C" and record as dimension "D". Dimension "D" is the required shim thickness for shim to obtain 0.007 to 0.012 inch axial clearance between the fan impeller and the impeller cover.
14. Remove impeller cover and impeller.
15. Peel laminated shims (9) to required thickness determined by dimension "D" to obtain the proper spacing.
16. Install shims (9) on rotor shaft.
17. Install woodruff key (7) in rotor shaft and install fan impeller (8).
18. Install washer (6) and lock nut (5).
19. Torque lock nut (5) to 95 to 110 inch-pounds.
20. Turn rotor counterclockwise to check that bearings are free.
21. With the stator electric cable positioned in the 6 o'clock position, install the impeller cover (3) with the installation locating holes located in the 3 o'clock and 9:30 positions.
22. Install six washers (2) and screws (1).

2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS.

This task covers:

- Removal
- Installation

INITIAL SETUP*Tools*

Electronic Equipment Tool
Kit TK-105/G (SC 5180-91-CL-R07)

Equipment Condition

Airflow valve removed from filter unit or airflow valve removed from airflow valve and silencer.

References

TB SIG 222

NOTE

Perform all electrical connections in accordance with wiring diagram on page 2-160.

Troubleshooting References

Refer to page 2-33.

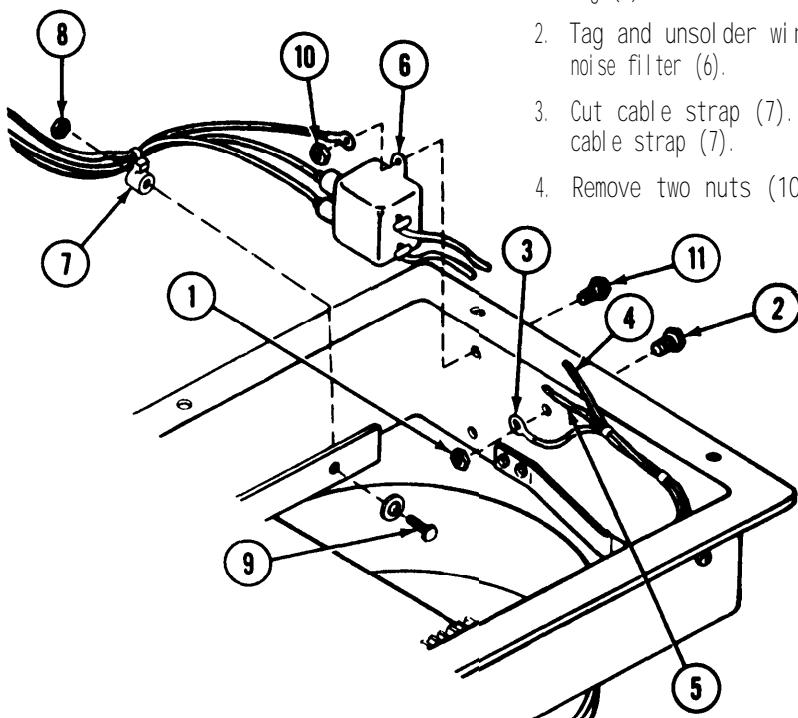
| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**REMOVAL**

Airflow Valve

Motor with radio noise filter

- Remove nut (1) and screw (2) from GRD 4 terminal lug (3).
- Tag and unsolder wires (4 and 5) from FL2 radio noise filter (6).
- Cut cable strap (7). Remove nut (8), screw (9) and cable strap (7).
- Remove two nuts (10) and screws (11).



2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION (Cont)**Airflow Valve**

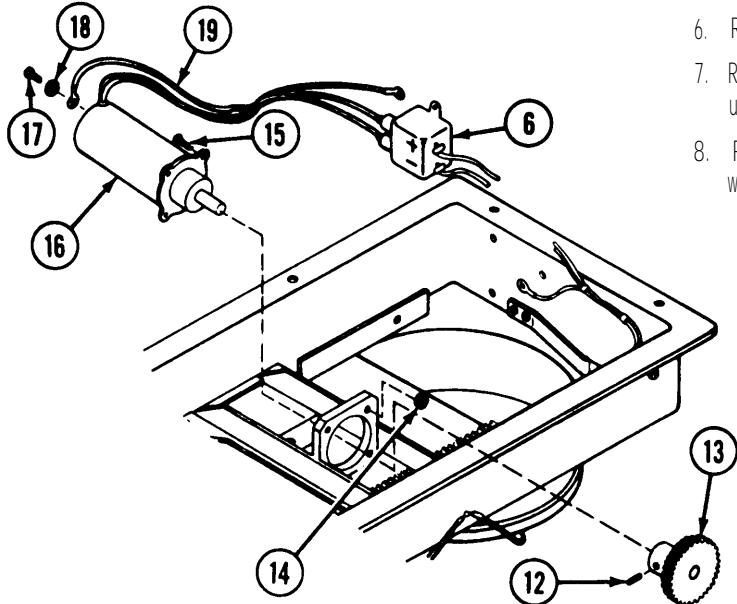
Motor with radio noise filter

5. Loosen setscrew (12) and remove gear (13).

6. Remove four nuts (14) and screws (15).

7. Remove motor (16) and FL2 radio noise filter (6) as a unit.

8. Remove screw (17), washer (18), and grounding wire (19).

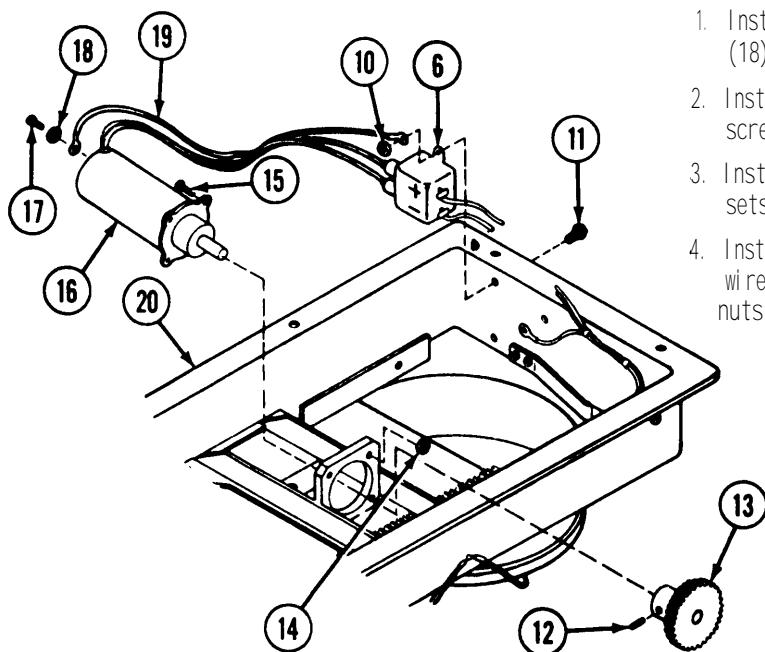
**INSTALLATION**

1. Install grounding wire (19) on motor (16) with washer (18) and screw (17).

2. Install motor (16) in airflow valve (20) using four screws (15) and nuts (14).

3. Install gear (13) on shaft of motor (16). Tighten setscrew (12).

4. Install FL2 radio noise filter (6) and grounding wire (19) in airflow valve (20) using screws (11) and nuts (10).



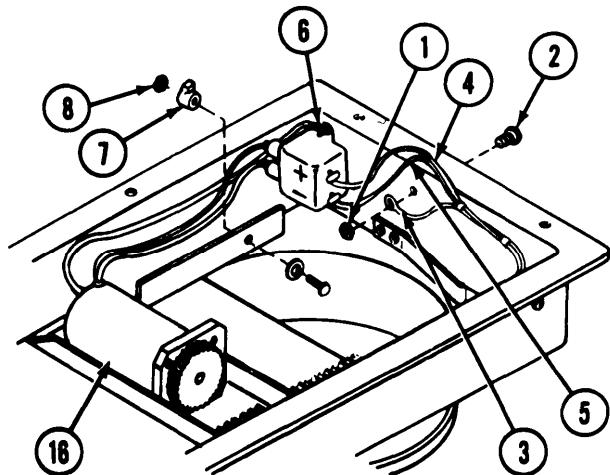
2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

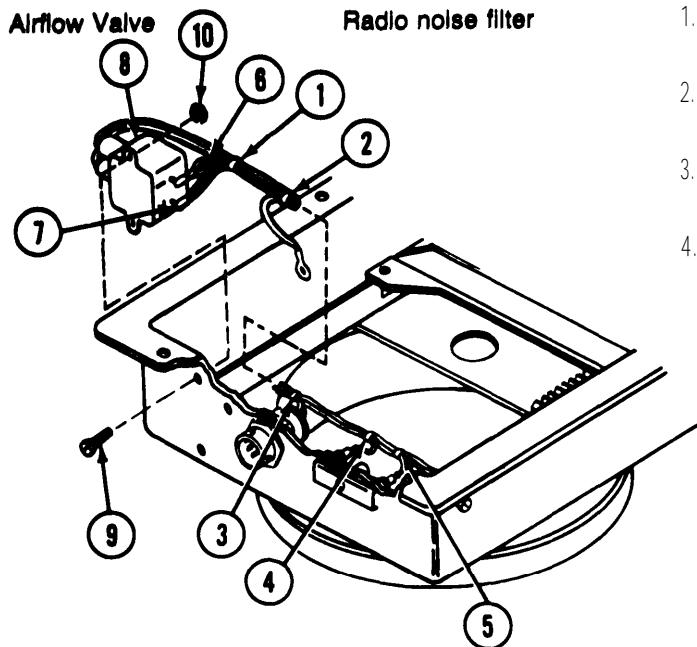
REMOVAL/INSTALLATION (Cont)

Airflow Valve

Motor with radio noise filter



5. Install screw (2), GRD 4 terminal lug (3), and nut (1).
6. Observing the wiring diagram on page 2-160, solder the tagged wires (4 and 5) to lugs on FL2 radio noise filter (6).
7. Bring cabling between motor (16) and FL2 radio noise filter (6) together and install cable strap (7), screw (9), and nut (8).

REMOVAL/INSTALLATION**REMOVAL**

1. Cut and remove cable ties (1 thru 5) and separate the wires.
2. Tag and unsolder one pair of wires (6) from FL1 radio noise filter (8) negative (-) terminal.
3. Tag and unsolder one pair of wires (7) from FL1 radio noise filter (8) positive (+) terminal.
4. Remove two screws (9) and nuts (10). Place FL1 radio noise filter (8) inside the airflow valve.

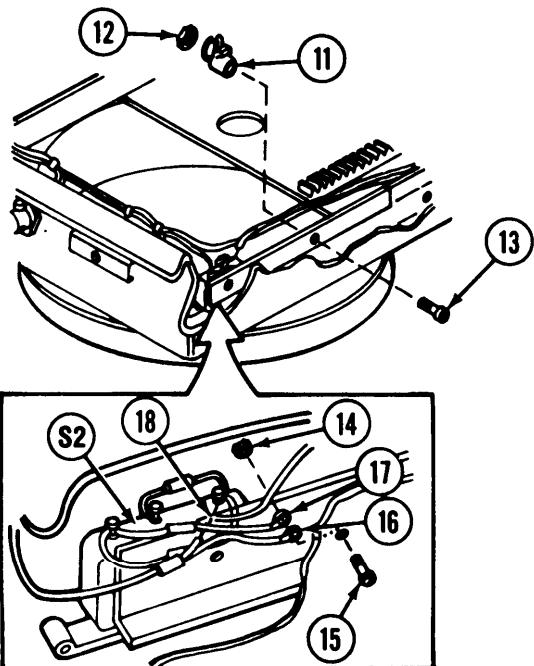
2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

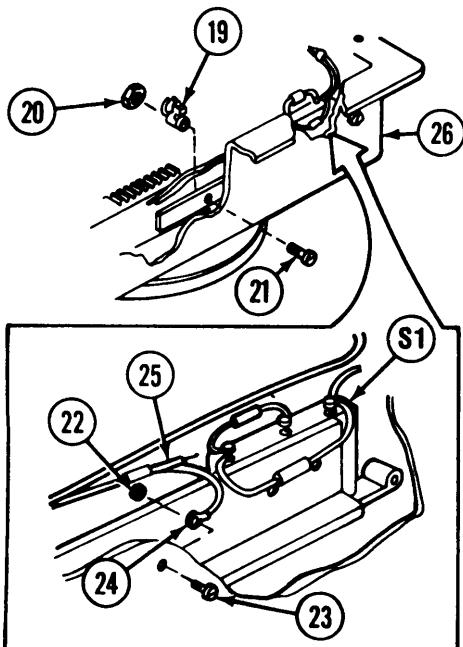
REMOVAL/INSTALLATION (Cont)

Airflow Valve

Radio noise filter



5. Cut cable strap (11). Remove nut (12), screw (13), and cable strap (11).
6. Remove nut (14), screw (15), and two grounding terminal lugs (16 and 17) from GRD 2.
7. Tag and unsolder wire (18) from normally closed (NC) terminal on switch (S2).



8. Cut cable strap (19). Remove nut (20), screw (21), and cable strap (19).
9. Remove nut (22), screw (23), and grounding lug (24) from GRD 3.
10. Tag and unsolder wire (25) from normally closed (NC) terminal on switch (S1).
11. Remove FL1 radio noise filter (8) from airflow valve (26).

NOTE

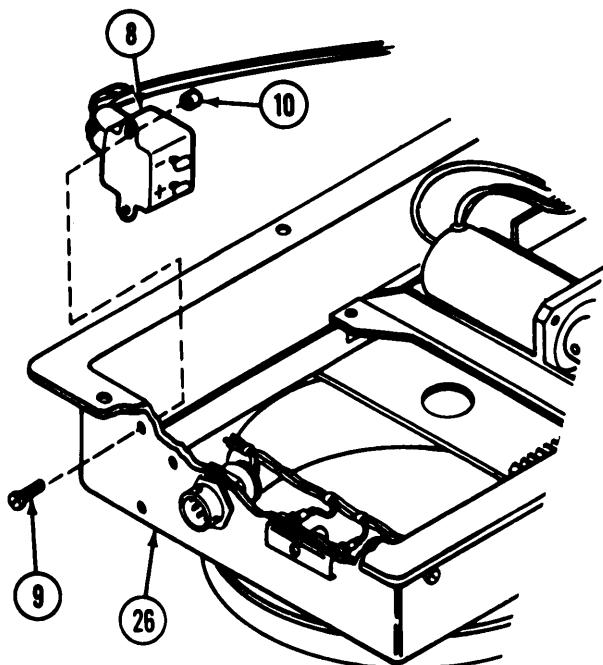
Be sure to keep the old filter. It will be used as a pattern for installing a new filter.

2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

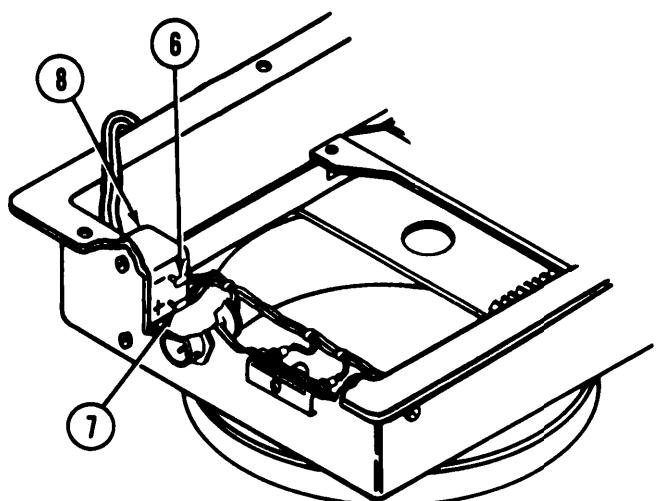
REMOVAL/INSTALLATION (Cont)

Airflow Valve Radio noise filter



INSTALLATION

1. Using the old radio noise filter as a pattern, cut and tag wires on new filter and install ground terminal lugs on the shielding of both wires.
2. Mount radio noise filter (8) in airflow valve (26) using two screws (9) and nuts (10).



NOTE

Place FL1 radio noise filter wires over the flange of the airflow valve.

3. Observing the wiring diagram on page 2-160 solder the tagged wires (6 and 7) to lugs on FL1 radio noise filter (8).

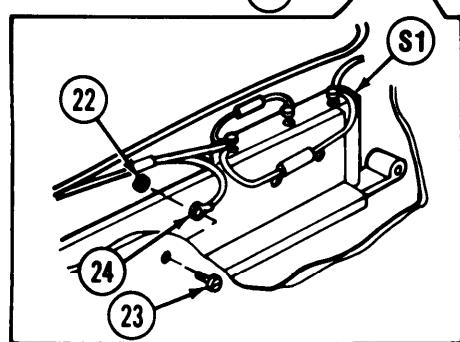
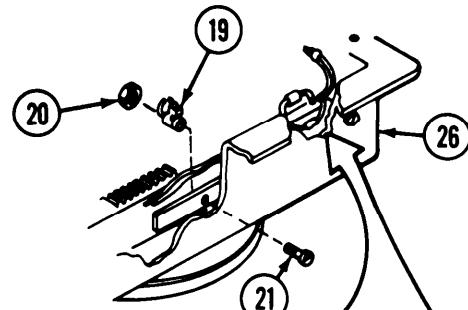
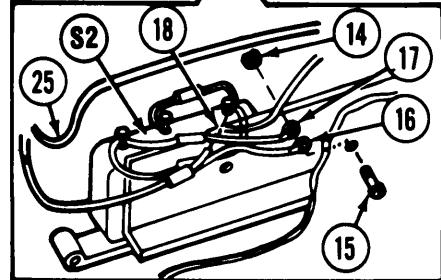
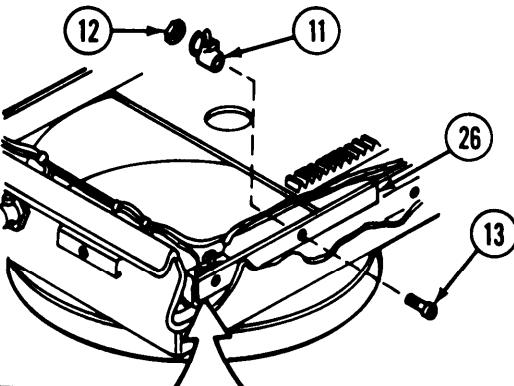
2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION (Cont)

Airflow Valve

Radio noise filter



4. Place wires (18 and 25) in position in the airflow valve (26).
5. Solder wire (18) to normally closed (NC) terminal on switch (S2).
6. Install grounding lugs (16 and 17), using screw (15) and nut (14).
7. Install cable strap (11) using screw (13) and nut (12). Secure the wires within the cable strap.

8. Solder wire (25) to normally closed (NC) terminal on switch (S1).
9. Install grounding lug (24) using screw (23) and nut (22).
10. Install cable strap (19) using screw (21) and nut (20). Secure the wires within the cable strap.

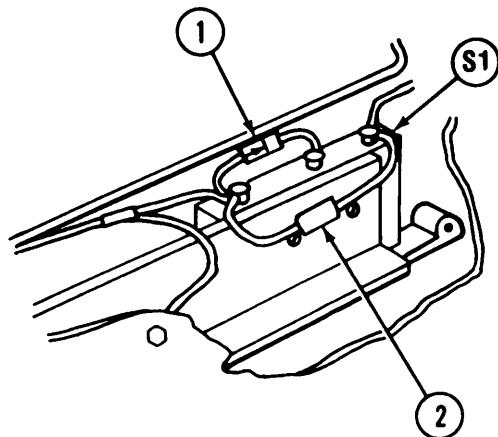
2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Airflow Valve

Diode and capacitor on switch (S1)

**REMOVAL**

1. Unsolder diode (1) from normally closed (NC) and from normally open (NO) terminals on switch (S1).
2. Unsolder capacitor (2) from normally closed (NC) and from common (C) terminals on switch (S1).

INSTALLATION

1. Cut and bend leads of diode (1) and capacitor (2) using the old parts as a pattern.
2. Solder diode (1) leads to normally closed (NC) and to normally open (NO) terminals on switch (S1).
3. Solder capacitor (2) leads to normally closed (NC) and common (C) terminals on switch (S1).

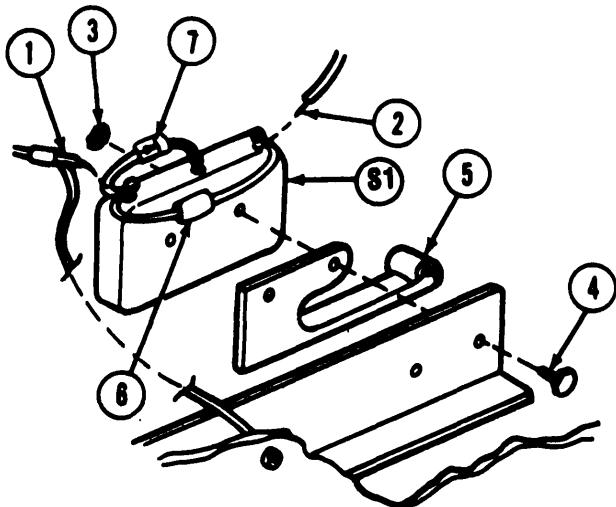
2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Airflow Valve

Switch (S1) and adapter

**REMOVAL**

1. Tag and unsolder wire (1) from normally closed (NC) terminal on switch (S1).
2. Tag and unsolder wire (2) from common (C) terminal on switch (S1).
3. Remove two nuts (3) and screws (4).
4. Remove switch (S1) and adapter (5).

INSTALLATION

1. Install switch (S1) and adapter (5) using two screws (4) and nuts (3).
2. Cut and bend leads of capacitor (6) to fit between normally closed (NC) and common (C) terminals of switch (S1).
3. Cut and bend leads of diode (7) to fit between normally closed (NC) and normally open (NO) terminals of switch (S1).
4. Solder wire (1), one end of capacitor (6), and one end of diode (7) to normally closed (NC) terminal of switch (S1).
5. Solder wire (2) and one end of capacitor (6) to common (C) terminal of switch (S1).
6. Solder one end of diode (7) to normally open (NO) terminal of switch (S1).

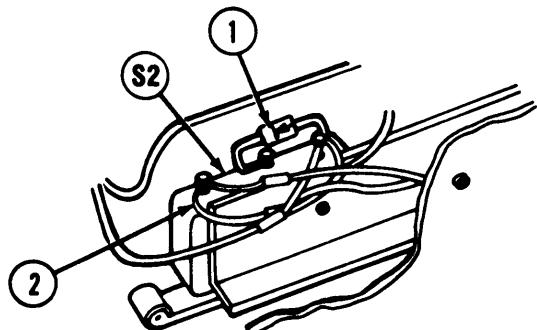
2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Airflow Valve

Diode and capacitor on switch (S2)



REMOVAL

1. Unsolder diode (1) from normally closed (NC) and from normally open (NO) terminals on switch (S2).
2. Unsolder capacitor (2) from normally closed (NC) and from common (C) terminals on switch (S2).

INSTALLATION

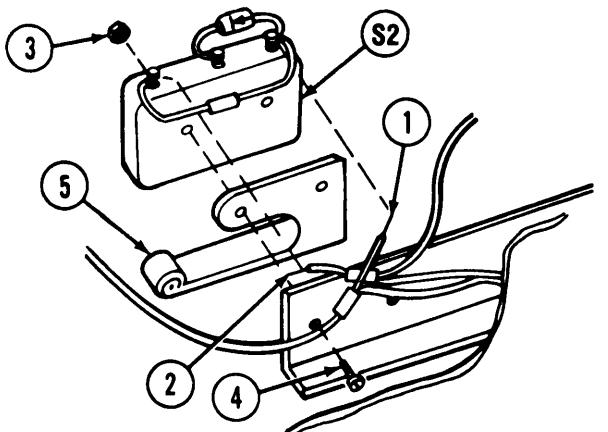
1. Cut and bend leads of diode (1) and capacitor (2) using the old parts as a pattern.
2. Solder diode (1) leads to normally closed (NC) and to normally open (NO) terminals on switch (S2).
3. Solder capacitor (2) leads to normally closed (NC) and to common (C) terminals on switch (S2).

2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

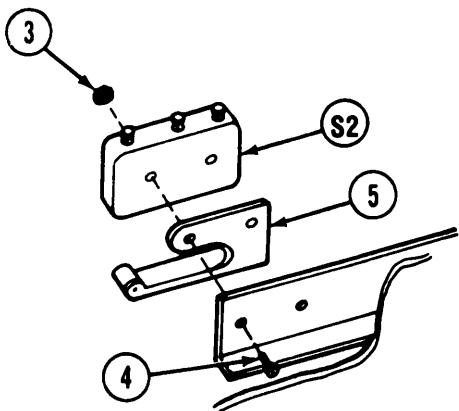
REMOVAL/INSTALLATION

Airflow Valve



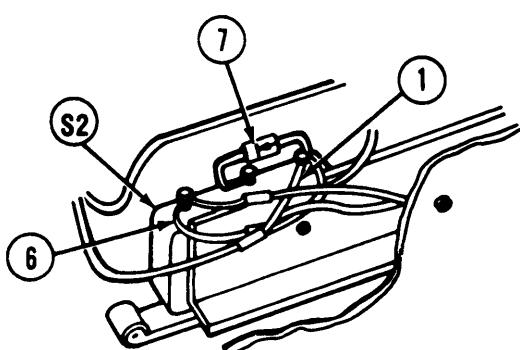
REMOVAL

1. Tag and unsolder wire (1) from normally closed (NC) terminal on switch (S2).
2. Tag and unsolder wire (2) from common (C) terminal on switch (S2).
3. Remove two nuts (3) and screws (4).
4. Remove switch (S2) and adapter (5).



INSTALLATION

1. Install switch (S2) and adapter (5) using two screws (4) and nuts (3).
2. Cut and bend leads of capacitor (6) to fit between normally closed (NC) and common (C) terminals of switch (S2).
3. Cut and bend leads of diode (7) to fit between normally closed (NC) and normally open (NO) terminals of switch (S2).
4. Solder wire (1), one end of capacitor (6), and one end of diode (7) to normally closed (NC) terminal of switch (S2).
5. Solder wire (2) and one end of capacitor (6) to common (C) terminal of switch (S2).
6. Solder one end of diode (7) to normally open (NO) terminal of switch (S2).

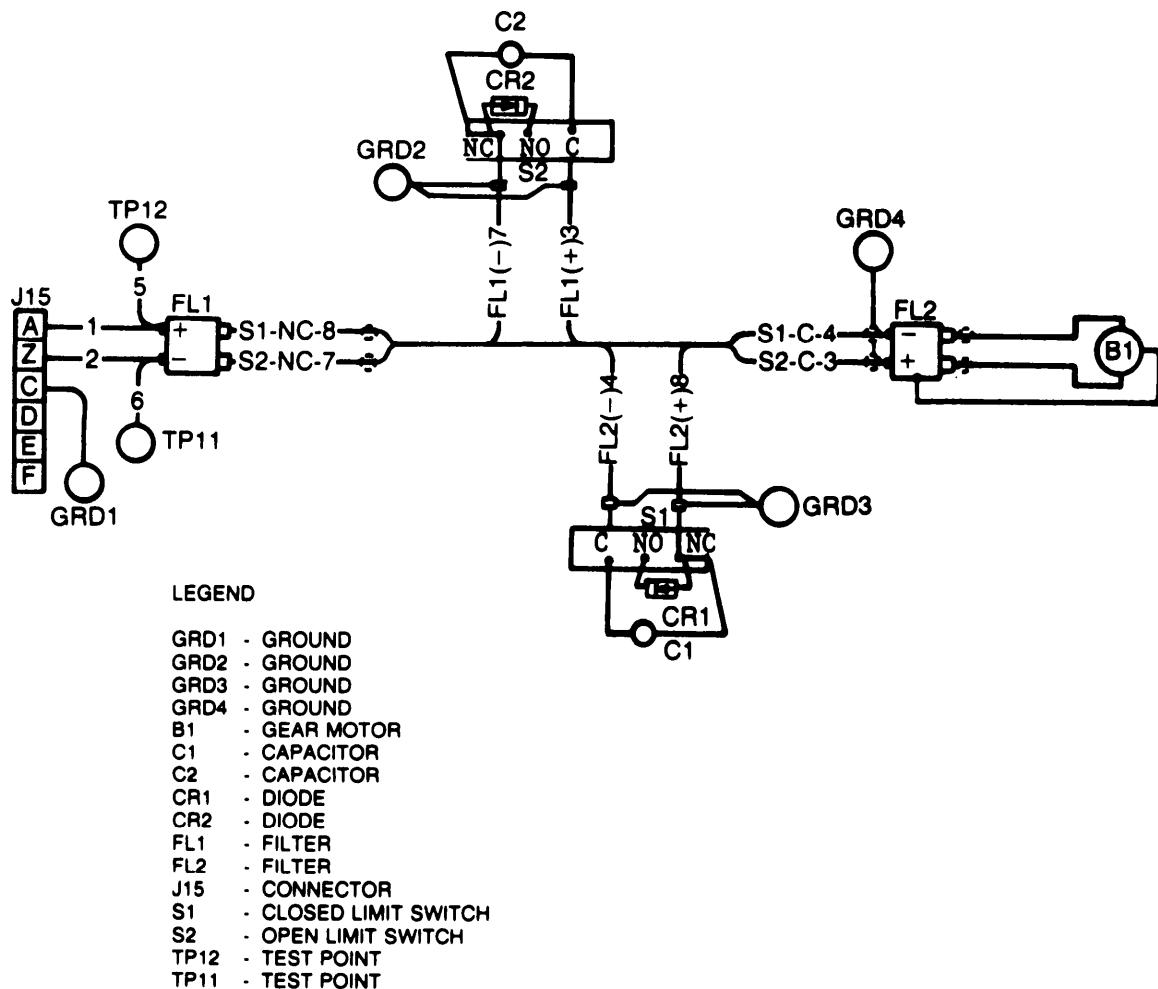


2-12. AIRFLOW VALVE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REPAIR

Airflow Valve Wiring



2-13. POWER DISTRIBUTION UNIT - MAINTENANCE INSTRUCTIONS.

This task covers:

- Removal
- Installation

INITIAL SETUP

Troubleshooting References
Refer to page 2-39.

Equipment Condition
Power distribution unit removed from the filter unit.

Tools

Electronic Equipment Tool
Kit TK-105/G (SC 5180-91-CL-R07)

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

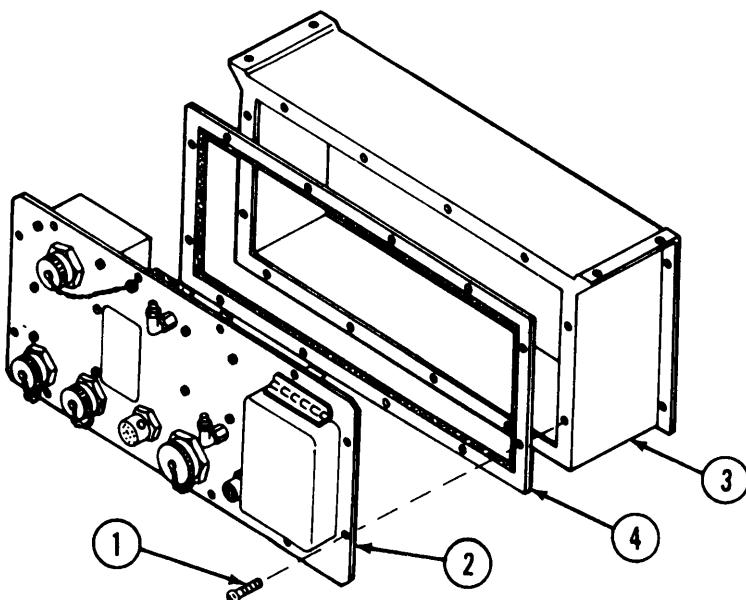
REMOVAL/INSTALLATION**REMOVAL**

Power Distribution Unit Panel

- Remove twelve screws (1) and separate panel (2) from housing (3).
- Remove gasket (4) from housing (3).

INSTALLATION

- Install gasket (4) on housing (3) with screw holes aligned.
- Install panel (2) on housing using twelve screws (4).



2-14. POWER DISTRIBUTION PANEL - MAINTENANCE INSTRUCTIONS.

This task covers:

- a. Removal b. Repair c. Installation

INITIAL SETUP**Materials**

Insulation sleeving item 6, app C)

Troubleshooting References

Refer to page 2-39,

ToolsElectrostatic Equipment Tool
Kit TK-105/G (SC 5180-91-CL-R07)**Equipment Condition**

Power distribution panel removed from distribution unit. Refer to page 2-161.

References

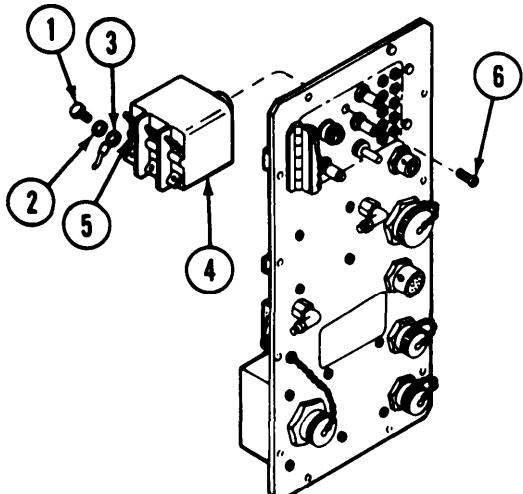
TB SIG 222

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Power Distribution Panel

FAN circuit breaker

**REMOVAL**

1. Remove six screws (1), washers (2), and wires (3) from circuit breaker (4).
2. Unsolder wires from C and NO contacts (5) on circuit breaker.
3. Remove four screws (6) and remove fan circuit breaker (5).

INSTALLATION

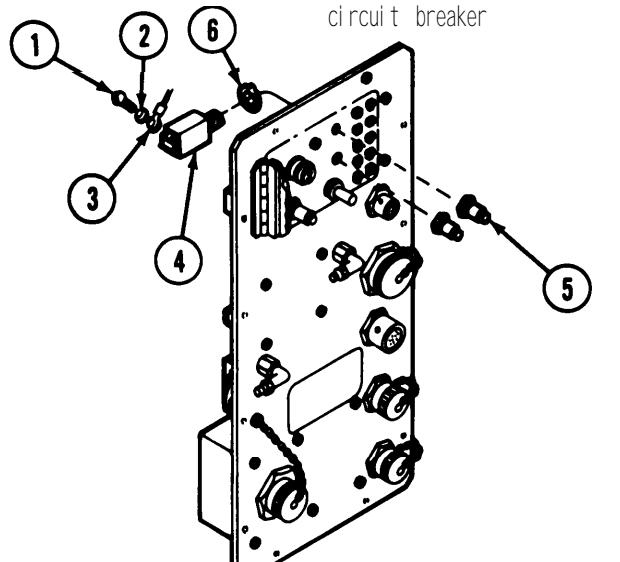
Observe the orientation of the numbers on the push button.

1. Insert fan circuit breaker (4) in panel and secure with four screws (6).
2. Solder wires to C and NO contacts of circuit breaker. Refer to page 2-169.
3. Install wires on six electrical terminal using six screws (1) and washers (2).

2-14. POWER DISTRIBUTION PANEL - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|-----------------------------|------|--------|
| REMOVAL/INSTALLATION | | |

Power Distribution Panel



PE LIGHT or DC POWER circuit breaker

REMOVAL

1. Remove two screws (1), washers (2), and wires (3) from circuit breaker (4).
2. Unscrew waterproof boot (5).
3. Remove circuit breaker and keying washer (6).

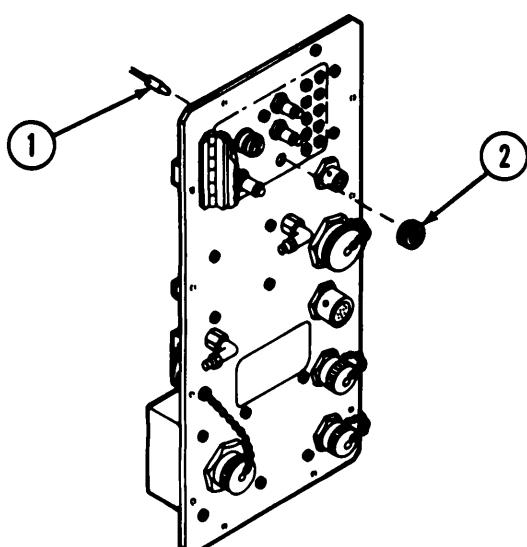
INSTALLATION

1. Place keying washer (6) on circuit breaker (4).
2. Insert circuit breaker in panel and secure with waterproof boot (5).
3. Connect wires using screws (1) and washers (2). Refer to page 2-169.

REMOVAL/INSTALLATION

Power Distribution Panel

208 v indicator light

**REMOVAL**

1. Remove insulation and unsolder connections from indicator light (1).
2. Unscrew knurled ring (2) and remove indicator light.

INSTALLATION

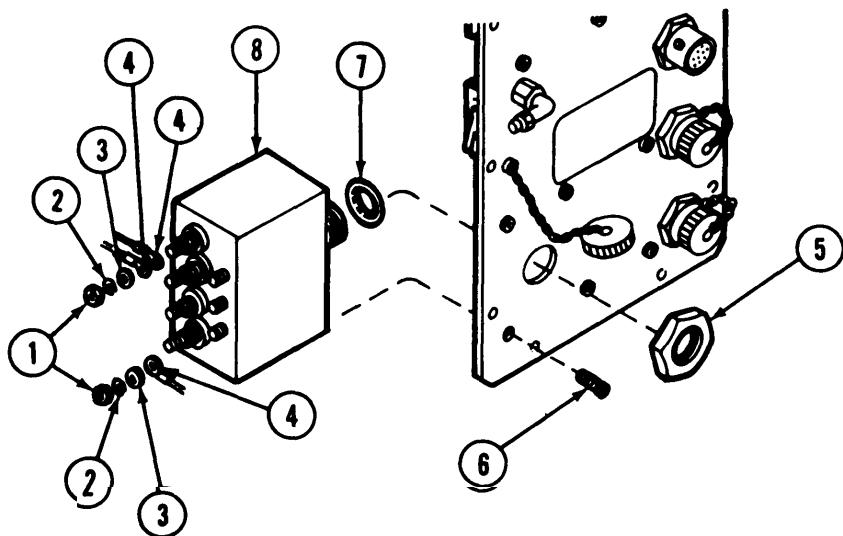
1. Insert 208 v indicator light (1) in panel and secure with knurled nut (2).
2. Place insulation sleeving (item 6, app C) over wire leads.
3. Solder wire leads to 208 v indicator light. Refer to page 2-169.
4. Place insulation sleeving (item 6, app C) over connection and shrink.

2-14. POWER DISTRIBUTION PANEL - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL

- Power Distribution Panel RFI filter
1. Remove five nuts (1), lockwashers (2), and washers (3) from filter terminals and release wiring (4).
 2. Unscrew nut (5).
 3. Unscrew four screws (6) and remove radio noise filter.
 4. Remove preformed packing (7) from radio noise filter (8).



REPAIR

- Preformed packing Replace preformed packing (7) if unserviceable.

INSTALLATION

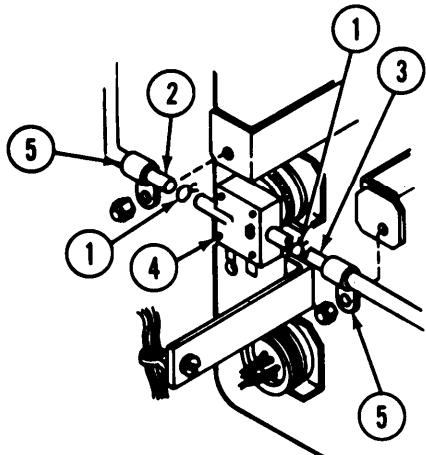
- Power Distribution Panel RFI filter
1. Place preformed packing (7) on radio noise filter (8).
 2. Install radio noise filter in panel using four screws (6) and nut (5).
 3. Connect electrical wiring to the seven connectors. Refer to page 2-169.

2-14. POWER DISTRIBUTION PANEL - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

Power Distribution Panel

Pressure switch



1. Pinch ears of hose clamps (1) and remove tubing (2 and 3) from pressure switch (4).
2. Loosen clamps (5) if necessary to remove tubes.
3. Disconnect electrical connector from pressure switch and remove switch.

REPAIR

Nonmetallic tubing

Fabricate replacement tubing (2 or 3) from NSN 9330-01-073-1011 stock. Cut to same length as tubing being replaced.

INSTALLATION

Pressure switch

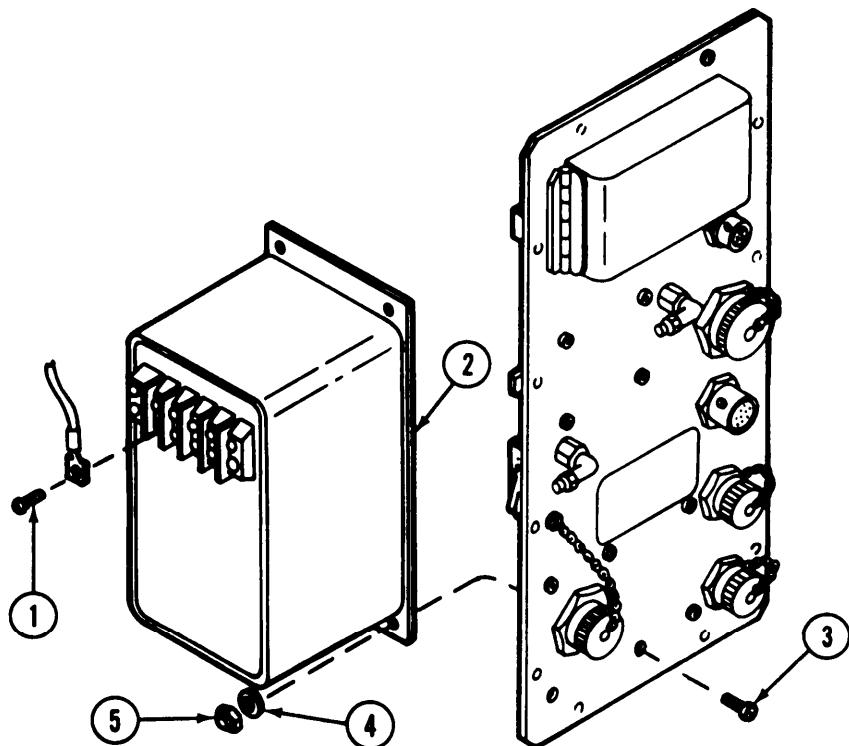
1. Connect wire connector to pressure switch (4).
2. Position pressure switch between tubing (2 and 3) with switch terminals pointing toward transformer/rectifier and "LOW" and "HIGH" marking away from panel.
3. Install tube (3) on the "LOW" side of the switch and tube (2) on the "HIGH" side.
4. Position clamps (1) within 1/4 inch of switch body.

2-14. POWER DISTRIBUTION PANEL - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**REMOVAL**

- Power Distribution Panel Transformer/rectifier
1. Remove four screws (1) from transformer/rectifier (2) and remove wires.
 2. Remove four screws (3), washers (4), and nuts (5) and remove transformer/rectifier.

**INSTALLATION**

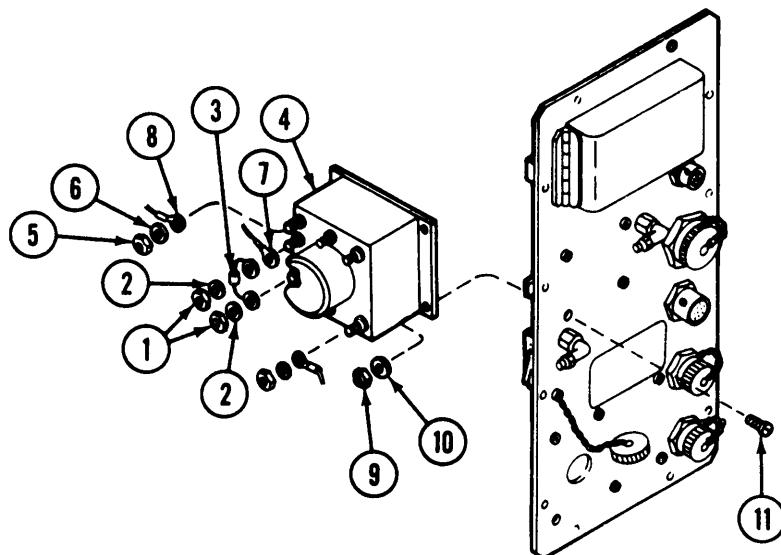
1. Position transformer/rectifier (2) on panel.
2. Secure to panel using four screws (3), washers (4), and nuts (5).
3. Install wires using four screws (1). Refer to page 2-169.

2-14. POWER DISTRIBUTION PANEL - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**REMOVAL**

- | | | |
|--------------------------|-------------|---|
| Power Relay | Diode (CR5) | 1. Remove nuts (1) and washers (2). |
| Power Distribution Panel | Power relay | 2. Remove diode (3) from power relay (4), |
| | | 3. Remove six nuts (5) and washers (6) from power relay and remove wires (7 and 8). |
| | | 4. Remove four nuts (9), washers (10), and screws (11). |
| | | 5. Remove power relay. |

**INSTALLATION**

- | | | |
|--------------------------|-------------|--|
| Power Distribution Panel | Power relay | 1. Position power relay (4) on panel, |
| | | 2. Attach with four screws (11), washers (10), and nuts (9). |
| | | 3. Install wires (7) on terminals X1 and X2 of power relay. Refer to page 2-169. |
| Power Relay | Diode (CR5) | 4. Install diode (3) between terminal X1 and X2 of the power relay. Ensure that the end is installed on terminal X2. Secure with washers (2) and nuts (1). |
| | | 5. Install wires (8) and secure with washers (6) and nuts (5). Refer to page 2-169. |

2-14. POWER DISTRIBUTION PANEL - MAINTENANCE INSTRUCTIONS (Cont.).

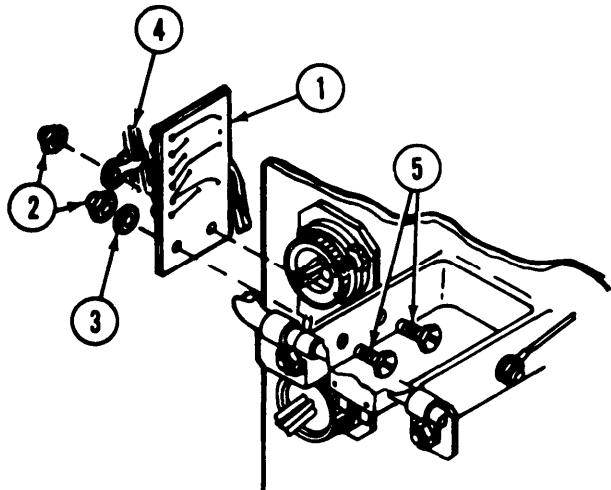
| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**REMOVAL**

Power Distribution Panel

Printed circuit assembly

1. Unsolder wires from auxiliary switching printed circuit assembly (1).
2. Remove two nuts (2), washer (3), cable strap (4), and two screws (5).
3. Remove auxiliary switching printed circuit assembly.

**INSTALLATION**

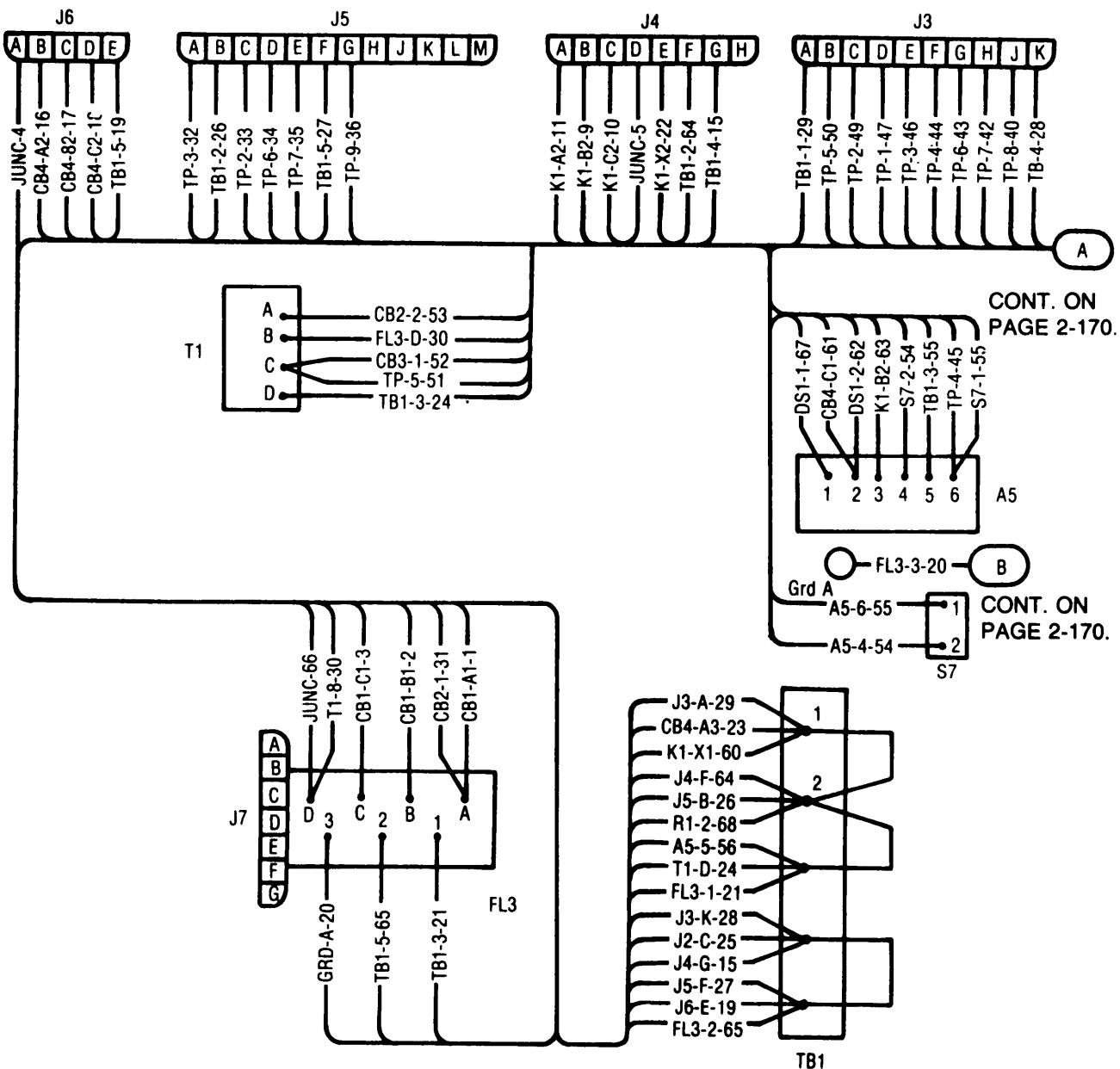
1. Position printed circuit board (1) on bracket and install screws (5).
2. Install cable strap (4) and nut (2) on one screw. Install washer (3) and nut (2) on the other.
3. Connect and solder wires to printed circuit assembly. Refer to wiring diagram on page 2-169.

2-14. POWER DISTRIBUTION PANEL - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REPAIR

Power Distribution Panel Wiring



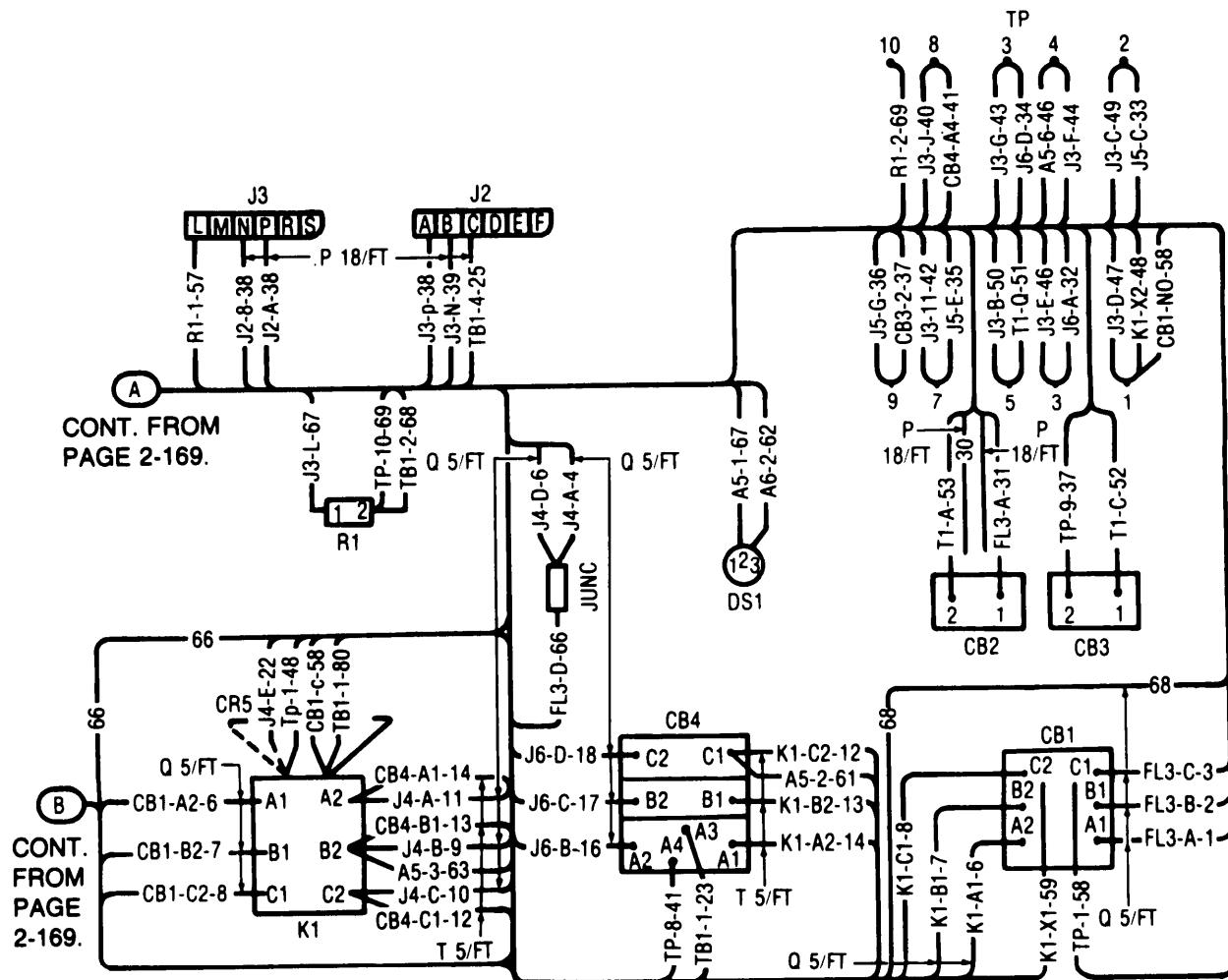
2-14. POWER DISTRIBUTION PANEL - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REPAIR (Cont.)

Power Distribution Panel

Wiring



LEGEND

| | | | |
|-----|------------------------|------|----------------------|
| A5 | - PRINTED CIRCUIT CARD | J4 | - CONNECTOR |
| CB1 | - CIRCUIT BREAKER | J5 | - CONNECTOR |
| CB2 | - CIRCUIT BREAKER | J6 | - CONNECTOR |
| CB3 | - CIRCUIT BREAKER | J7 | - CONNECTOR |
| CB4 | - CIRCUIT BREAKER | JUNC | - INSULATED JUNCTION |
| CB5 | - DIODE | K1 | - FAN RELAY |
| DS1 | - INDICATOR | R1 | - RESISTOR |
| FL3 | - FILTER | S7 | - PRESSURE SWITCH |
| GRD | - GROUND | T1 | - TRANSFORMER |
| J2 | - CONNECTOR | TB1 | - TERMINAL BOARD |
| J3 | - CONNECTOR | TP | - TEST POINT |

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS.

This task covers:

- a. Disassembly
 - b. Repair
 - c. Reassembly
 - d. Removal
 - e. Installation
-

INITIAL SETUP*Troubleshooting Reference*

Refer to page 2-63.

*Tools*Electronic Equipment Tool
Kit TK-105/G (SC 5180-91-CL-R07)*Equipment Condition*

Compartment control module removed from shelter

References

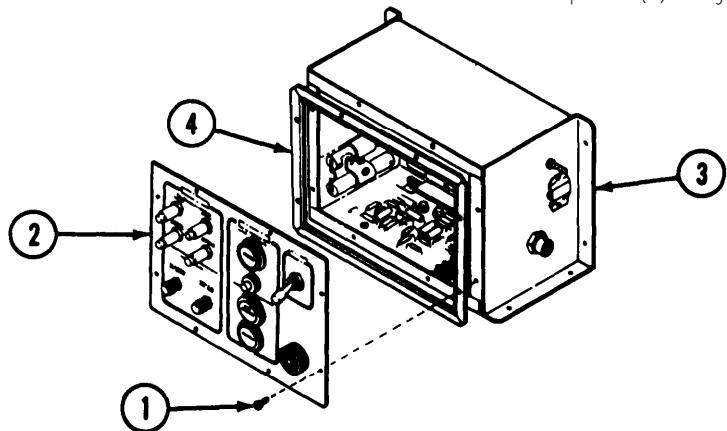
TB SIG 222

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

DISASSEMBLY

Compartment control module

1. Remove eight screws (1).
2. Pull panel (2) away from housing (3).

**REPAIR**

Gasket

Replace gasket (4) if defective.

REASSEMBLY

Compartment control module

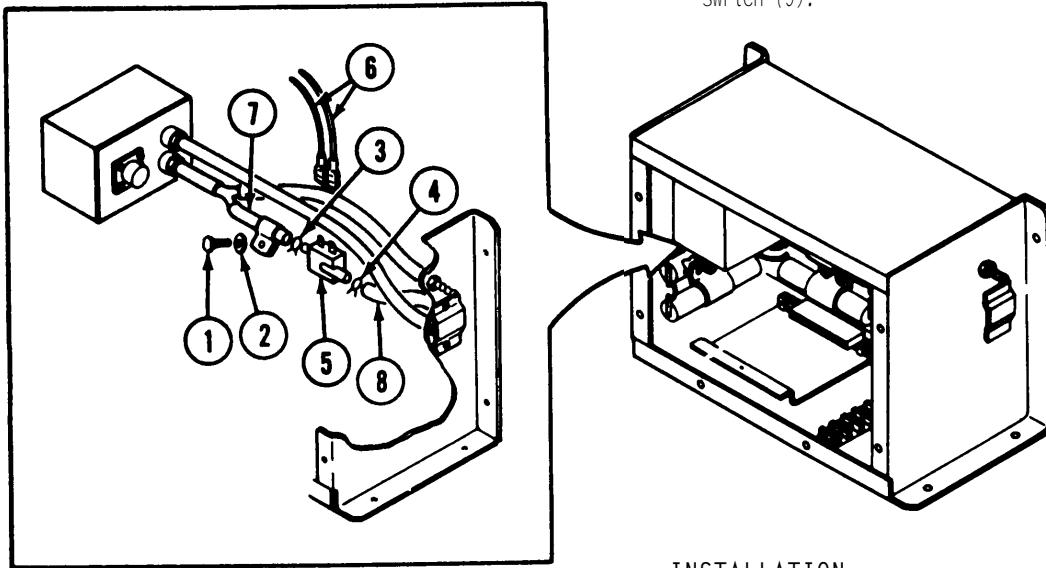
Position panel (2) on housing (3) and secure with eight screws (1).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**R E M O V A L**

- | | | |
|---------|-----------------|--|
| Housing | Pressure switch | <ol style="list-style-type: none"> 1. Disassemble CCM (p 2-171). 2. Remove screw (1) and washer (2). 3. Pinch ears of clamps (3 and 4) and pull tubes from pressure switch (5). 4. Carefully remove connectors (6) from pressure switch (5). |
|---------|-----------------|--|

**INSTALLATION**

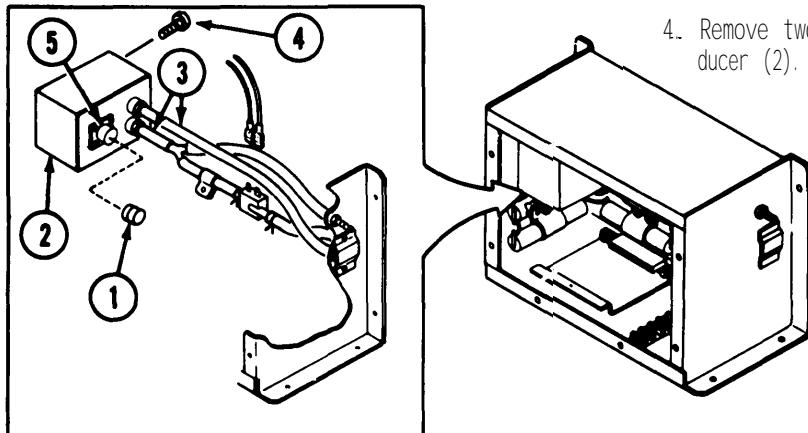
1. connect pressure switch (5) (tap marked LOW) to tube (7).
2. connect pressure switch (5) (tap marked HIGH) to tube (8).
3. Install hose clamps (3 and 4) and electrical connectors (6).
4. Reassemble CCM (p 2-171).

 2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL

- Housing Pressure transducer
1. Disassemble CCM (p 2-171).
 2. Remove connector (1) from pressure transducer (2).
 3. Pull tubing (3) from pressure transducer (2).
 4. Remove two screws (4) and remove pressure transducer (2).



REPAIR

- Nonmetallic tubing
- Fabricate replacement tubing (3) from NSN 9330-01-073-1011 stock. Cut to same length as tubing being replaced.

INSTALLATION

Pressure transducer

1. Install pressure transducer (2) using two screws (4).

CAUTION

When installing rubber tubes, be sure that the tube from the pressure switch is connected to the hose connector marked PR on the pressure transducer and that the other tube is connected to the hose connector marked Px on the pressure transducer.

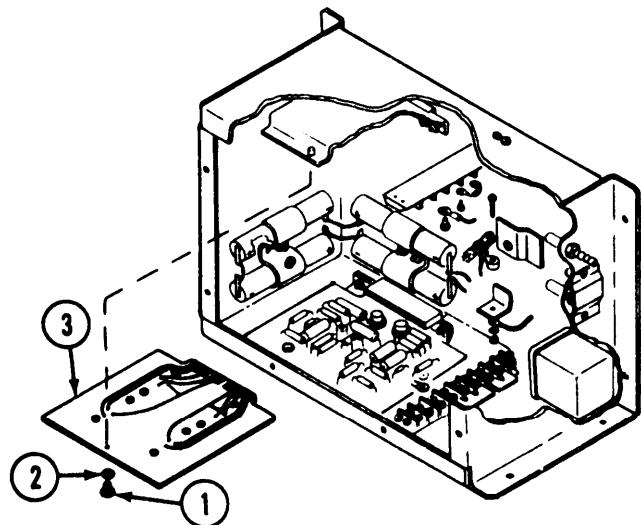
2. Connect tubing (3) to pressure transducer (2).
3. Connect connector (1) to connector (5).
4. Reassemble CCM (p 2-171).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Housing Power card

**REMOVAL**

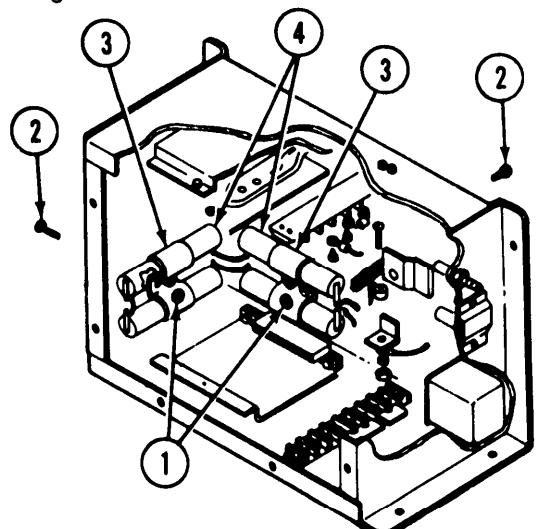
1. Disassemble CCM (p 2-171).
2. Remove screws (1) and washer (2).
3. Pull power card (3) from its socket.

INSTALLATION

1. Insert power card (3) into connector.
2. Secure power card (3) with screw (1) and washer (2).
3. Reassemble CCM (p 2-171).

REMOVAL/INSTALLATION

Housing Batteries (warning system)

**REMOVAL**

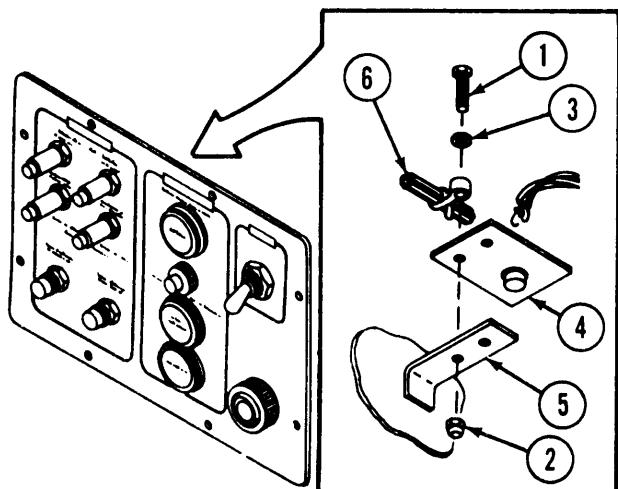
1. Disassemble CCM (p 2-171).
2. Remove four nuts (1) and screws (2).
3. Remove two battery retainers (3).
4. Unsolder and remove four batteries (4).

INSTALLATION

1. Solder connections on four warning system batteries (4). Refer to page 2-184.
2. Install and secure the four batteries (4) using two retainers (3), four screws (2), and four nuts (1).
3. Reassemble CCM (p 2-171).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont).

| LOCATION | ITEM | ACTION |
|-----------------------------|------|--------|
| REMOVAL/INSTALLATION | | |

Panel**Printed circuit assembly
(auxiliary switching)****REMOVAL**

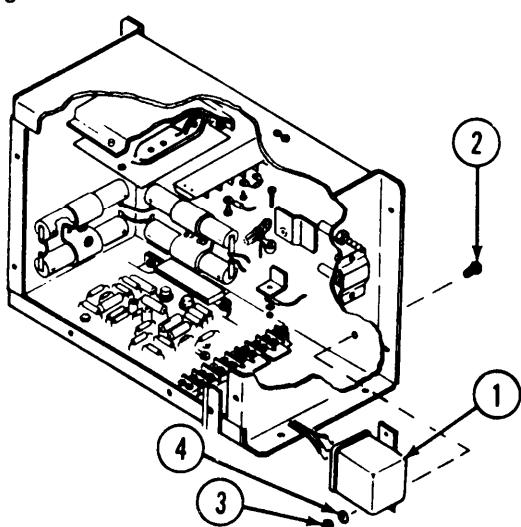
1. Disassemble CCM (p 2-171).
2. Remove two screws (1), nuts (2), and washers (3).
3. Unsolder wires and remove auxiliary switching printed circuit assembly (4).

CAUTION

Apply needl e-nose pliers to the leads of the diodes connected between terminals 1 and 2, 3 and 8, and 7 and 8 to form a heat sink during soldering of these terminals. This is done to prevent heat damage to the diodes. Use care to apply only enough heat as necessary to form a good solder joint. This applies to all terminals.

INSTALLATION

1. Connect and solder wires to auxiliary switching printed circuit assembly (4). Refer to page 2-184.
2. Place auxiliary switching printed circuit assembly (4) on bracket (5) and attach using screws (1), washers (3), cable bracket (6), and nuts (2).
3. Reassemble CCM (p 2-171).

REMOVAL/INSTALLATION**Housing****Flasher****REMOVAL**

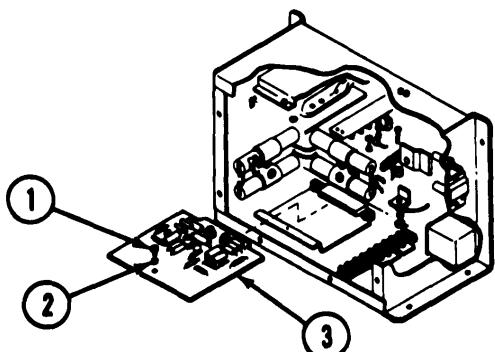
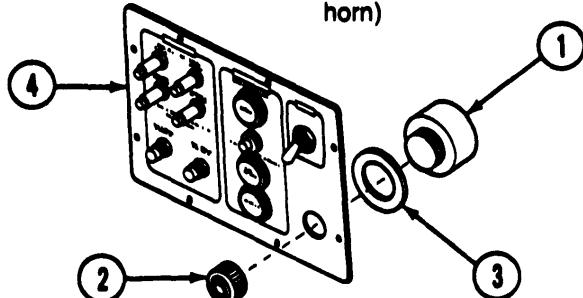
1. Disassemble CCM (p 2-171).
2. Unsolder wires from flasher (1).
3. Remove two screws (2), nuts (3), and washers (4).
4. Remove flasher (1).

INSTALLATION

1. Install flasher (1) using two screws (2), washers (4), and nuts (3).
2. Connect and solder wires. Refer to page 2-184.
3. Reassemble CCM (p 2-171).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**Housing****Switching card****REMOVAL****Panel****Audible signal (warning horn)****REPAIR****Gasket**

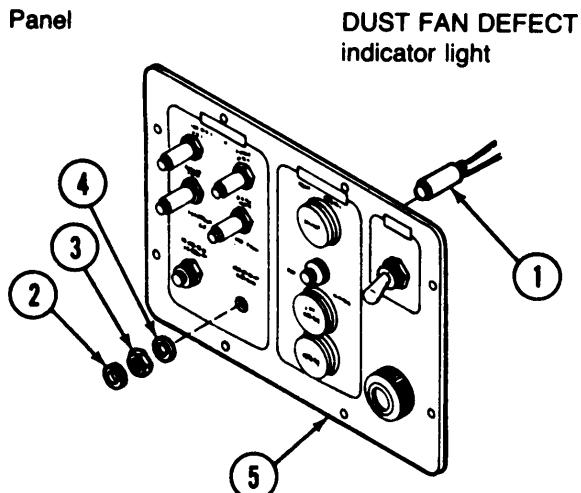
Fabricate gasket (fig D-2, app D).

INSTALLATION**Audible signal (warning horn)**

1. Insert warning horn (1) with gasket (3) in panel (4) and secure with bezel (2).
2. Connect wire leads. Refer to page 2-184.
3. Reassemble CCM (p 2-171).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

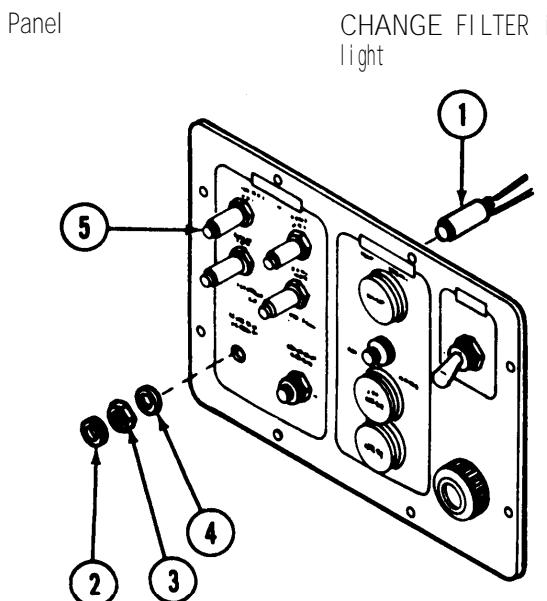
| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**REMOVAL**

1. Disassemble CCM (p 2-171).
2. Remove insulation and solder wires from terminal on DUST FAN DEFECT indicator light (1).
3. Remove knurled ring (2), nuts (3), and washer (4) from light (1).

INSTALLATION

1. Insert DUST FAN DEFECT indicator light (1) in panel (5) and secure with washer (4) and nut (3).
2. Install knurled ring (2).
3. Connect and solder wire leads. Refer to page 2-184.
4. Reassemble CCM (p 2-171).

REMOVAL/INSTALLATION**REMOVAL**

1. Disassemble CCM (p 2-171).
2. Remove insulation and solder wires from terminals on CHANGE FILTER indicator light (1).
3. Remove knurled ring (2), nut (3), and washer (4) from light (1).

INSTALLATION

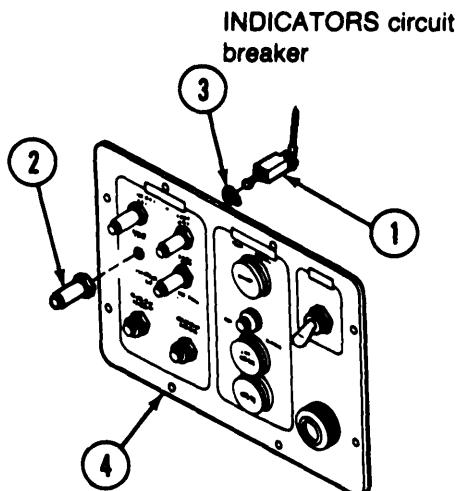
1. Insert CHANGE FILTER indicator light (1) in panel (5) and secure with washer (4) and nut (3).
2. Install knurled ring (2).
3. Connect and solder wire leads. Refer to page 2-184.
4. Reassemble CCM (p 2-171).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Panel



REMOVAL

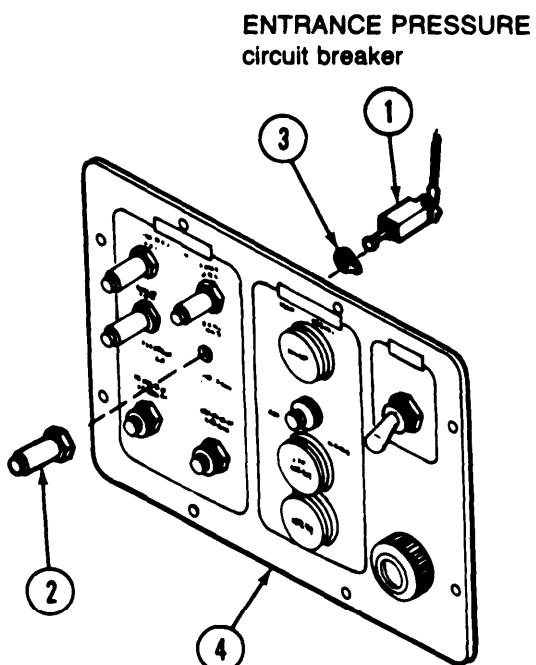
1. Disassemble CCM (p 2-171).
2. Remove wire leads from INDICATORS circuit breaker (1).
3. Unscrew and remove waterproof boot (2).
4. Remove circuit breaker (1) and keying washer (3).

INSTALLATION

1. Insert INDICATORS circuit breaker (1) with keying washer (3) in panel (4) and secure with waterproof boot (2).
2. Connect wire leads. Refer to page 2-184.
3. Reassemble CCM (p 2-171).

REMOVAL/INSTALLATION

Panel



REMOVAL

1. Disassemble CCM (p 2-171).
2. Remove wire leads from ENTRANCE PRESSURE circuit breaker (1).
3. Unscrew and remove waterproof boot (2).
4. Remove circuit breaker (1) and keying washer (3).

INSTALLATION

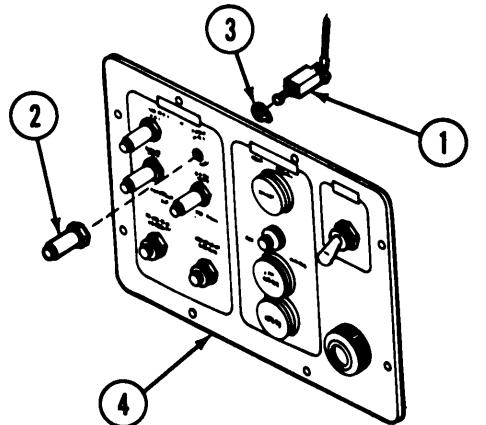
1. Insert ENTRANCE PRESSURE circuit breaker (1) with keying washer (3) in panel (4) and secure with waterproof boot (2).
2. Connect wire leads. Refer to page 2-184.
3. Reassemble CCM (p 2-171).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Panel

COMPARTMENT PRESSURE circuit breaker

REMOVAL

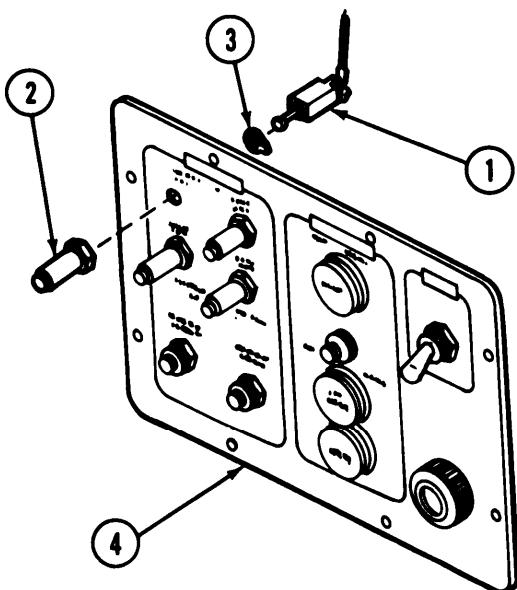
1. Disassemble CCM (p 2-171).
2. Remove wire leads from COMPARTMENT PRESSURE circuit breaker (1).
3. Unscrew and remove waterproof boot (2).
4. Remove circuit breaker (1) and keying washer (3).

INSTALLATION

1. Insert COMPARTMENT PRESSURE circuit breaker (1) with keying washer (3) in panel (4) and secure with waterproof boot (2).
2. Connect wire leads. Refer to page 2-184.
3. Reassemble CCM (p 2-171).

REMOVAL/INSTALLATION

REMOVAL

MAIN FAN circuit breaker

1. Disassemble CCM (p 2-171).

2. Remove wire leads from MAIN FAN circuit breaker (1).

3. Unscrew and remove waterproof boot (2).

4. Remove circuit breaker (1) and keying washer (3).

INSTALLATION

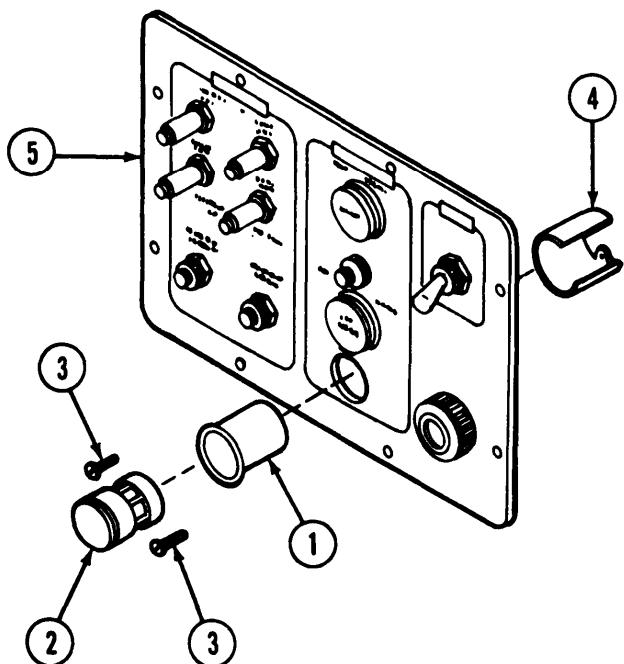
1. Insert MAIN FAN circuit breaker (1) with keying washer (3) in panel (4) and secure with waterproof boot (2).
2. Connect wire leads. Refer to page 2-184.
3. Reassemble CCM (p 2-171).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION

Panel

OCCUPIED switch/
indicator light**REMOVAL**

1. Disassemble CCM (p 2-171).
2. Unsolder wire leads from OCCUPIED switch/indicator light (1).
3. Pry out and remove the lamp module (2).
4. Remove two screws (3).
5. Remove sleeve (4) and switch/indicator light (1).

INSTALLATION**NOTE**

Lamp module is keyed to fit into light body at only one rotational position. It may be necessary to turn the lamp module within the light body to find the keyway.

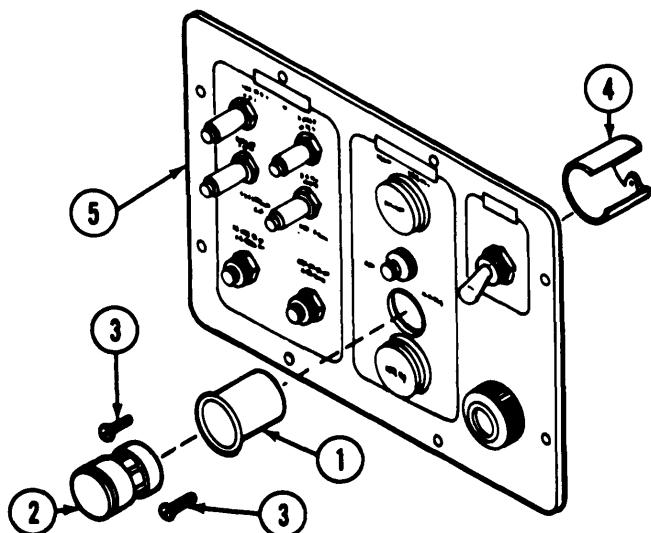
1. Place module (2) in OCCUPIED switch/indicator light (1) and position in panel (5) with the word OCCUPIED right side up and level.
2. Remove module (2). Place sleeve (4) over switch/indicator light (1) and secure with screws (3).
3. Replace module (2) in switch/indicator light (1).
4. Connect and solder wires. Refer to page 2-184.
5. Reassemble CCM (p 2-171).

REMOVAL/INSTALLATIONLOW PRESSURE switch/
indicator light**REMOVAL**

1. Disassemble CCM (p 2-171).
2. Unsolder wire leads from LOW PRESSURE switch/indicator light (1).
3. Pry out and remove the lamp module (2).
4. Remove two screws (3).
5. Remove sleeve (4) and switch/indicator light (1).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont).

| LOCATION | ITEM | ACTION |
|-----------------------------|------|--------------|
| REMOVAL/INSTALLATION (Cont) | | INSTALLATION |



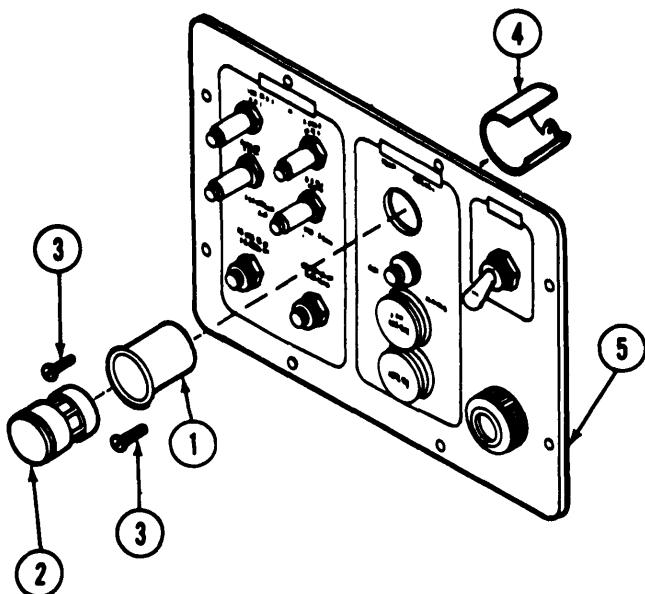
INSTALLATION

NOTE

Lamp module is keyed to fit into light body at only one rotational position. It maybe necessary to turn the lamp module within the light body to find the keyway.

1. Place module (2) in LOW PRESSURE switch/indicator light (1) and position in panel (5) with the words LOW PRESSURE right side up and level.
2. Remove module (2). Place sleeve (4) over switch/indicator light (1) and secure with screws (3).
3. Replace module (2) in switch/indicator light (1).
4. Connect and solder wires. Refer to page 2-184.
5. Reassemble CCM (p 2-171).

REMOVAL/INSTALLATION

Panel**MASK switch/indicator light**

REMOVAL

1. Disassemble CCM (p 2-171).
2. Unsolder wire leads from MASK switch/indicator light (1).
3. Pry out and remove lamp module (2).
4. Remove two screws (3).
5. Remove sleeve (4) and switch/indicator light (1).

INSTALLATION

NOTE

Lamp module is keyed to fit into light body at only one rotational position. It maybe necessary to turn the lamp module within the light body to find the keyway.

1. Place module (2) in MASK switch/indicator light (1) and position in panel (5) with the word MASK right side up and level.
2. Remove module (2). Place sleeve (4) over switch/indicator light (1) and secure with screws (3).
3. Replace module (2) in switch/indicator light (1).
4. Connect and solder wires. Refer to page 2-184.
5. Reassemble CCM (p 2-171).

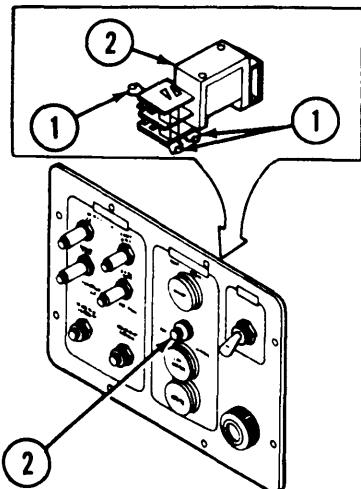
2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**REMOVAL****CAUTION**

When unsoldering diodes (1) from the switch solenoid terminals, apply needle-nose pliers to the leads of the diode to form a heat sink. Excessive heat will damage the diode.

HORN OFF Switch on Panel



1. Disassemble CCM (p 2-171),

2. Unsolder diodes (1) from HORN OFF switch (2).

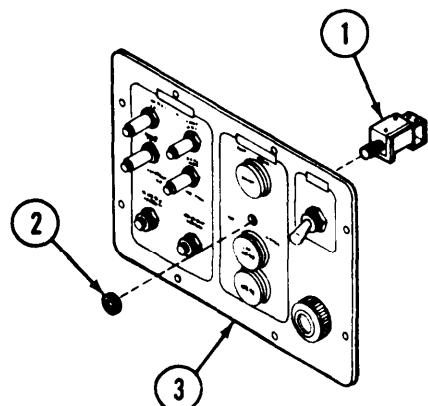
INSTALLATION**CAUTION**

Diodes must be connected properly or damage will result. Observe the banded end of the diodes. Apply needle-nose pliers to leads of diodes to form a heat sink when soldering. Excessive heat will damage the diodes.

1. Solder diodes (1) to HORN OFF switch (2) in accordance with wiring diagram (p 2-184).
2. Reassemble CCM (p 2-171).

REMOVAL/INSTALLATION**REMOVAL**

Panel **HORN OFF switch**



1. Disassemble CCM (p 2-171).

2. Unsolder wire leads and diodes from HORN OFF switch (1).

3. Remove nut (2) and switch (1).

INSTALLATION

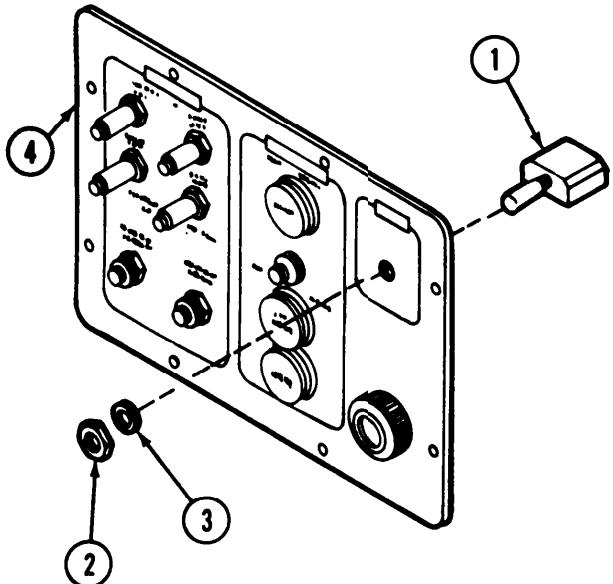
1. Insert HORN OFF switch (1) in panel (3) and secure with nut (2).
2. Connect and solder wires and diodes to HORN OFF switch. Refer to page 2-184,
3. Reassemble CCM (p 2-171).

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REMOVAL/INSTALLATION**REMOVAL****POWER toggle switch.**

1. Disassemble CCM (p 2-171).
2. Remove wire leads from POWER toggle switch (1).
3. Remove nut (2), washer (3), and POWER toggle switch.

**INSTALLATION**

1. Insert POWER toggle switch (1) in panel (4) and secure with washer (3) and nut (2).
2. Connect electrical wires. Refer to page 2-184.
3. Reassemble CCM (p 2-171).

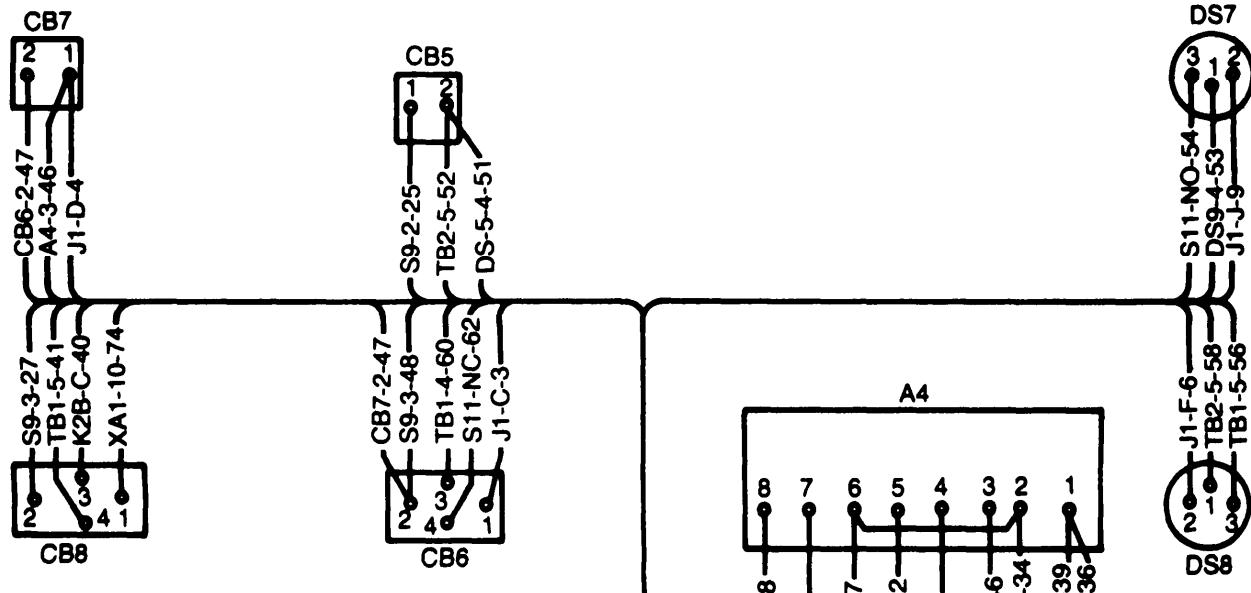
2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REPAIR

Compartment Control Module

Wiring



LEGEND

| | | | |
|------|-------------------|-----|------------------|
| CB5 | - CIRCUIT BREAKER | CR6 | - DIODE |
| CB6 | - CIRCUIT BREAKER | CR4 | - DIODE |
| CB7 | - CIRCUIT BREAKER | A4 | - CIRCUIT BOARD |
| CB8 | - CIRCUIT BREAKER | LS1 | - HORN |
| DS5 | - INDICATOR | J1 | - CONNECTOR |
| . | . | P19 | - CONNECTOR |
| DS7 | - INDICATOR | XА1 | - CONNECTOR |
| DS8 | - INDICATOR | XА2 | - CONNECTOR |
| DS9 | - INDICATOR | TB1 | - TERMINAL BOARD |
| CR5 | - DIODE | TB2 | - TERMINAL BOARD |
| DS11 | - INDICATOR | K2 | - RELAY |
| DS12 | - INDICATOR | GRD | - GROUND |
| S6 | - SWITCH | B1 | - BATTERY |
| S8 | - SWITCH | B2 | - BATTERY |
| S9 | - SWITCH | B3 | - BATTERY |
| S10 | - SWITCH | B4 | - BATTERY |
| S11 | - SWITCH | | |

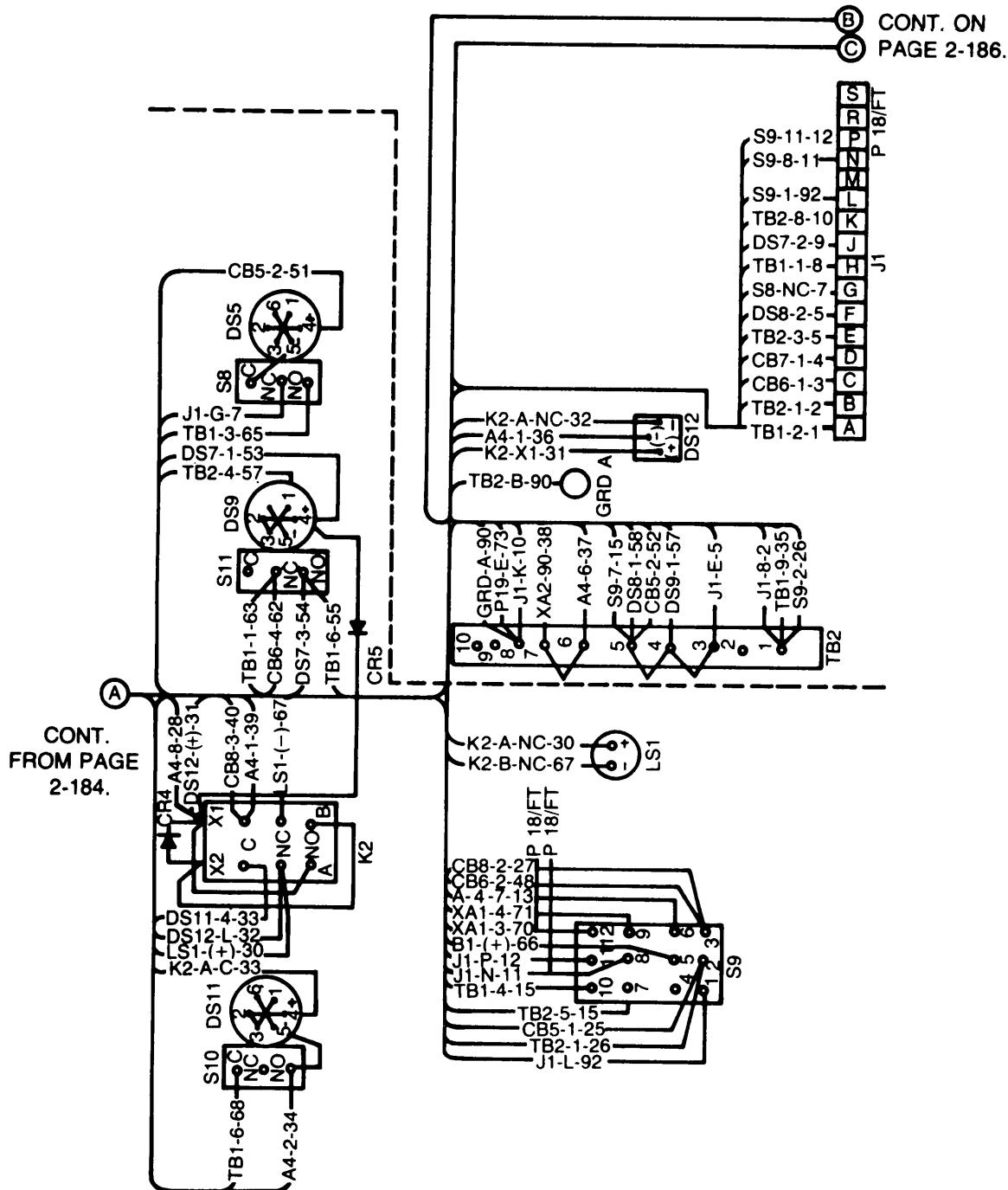
(A) CONT. ON
PAGE 2-185.

2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------------------|------|--------|
| REPAIR (Cont) | | |

Compartment Control
Module

Wiring

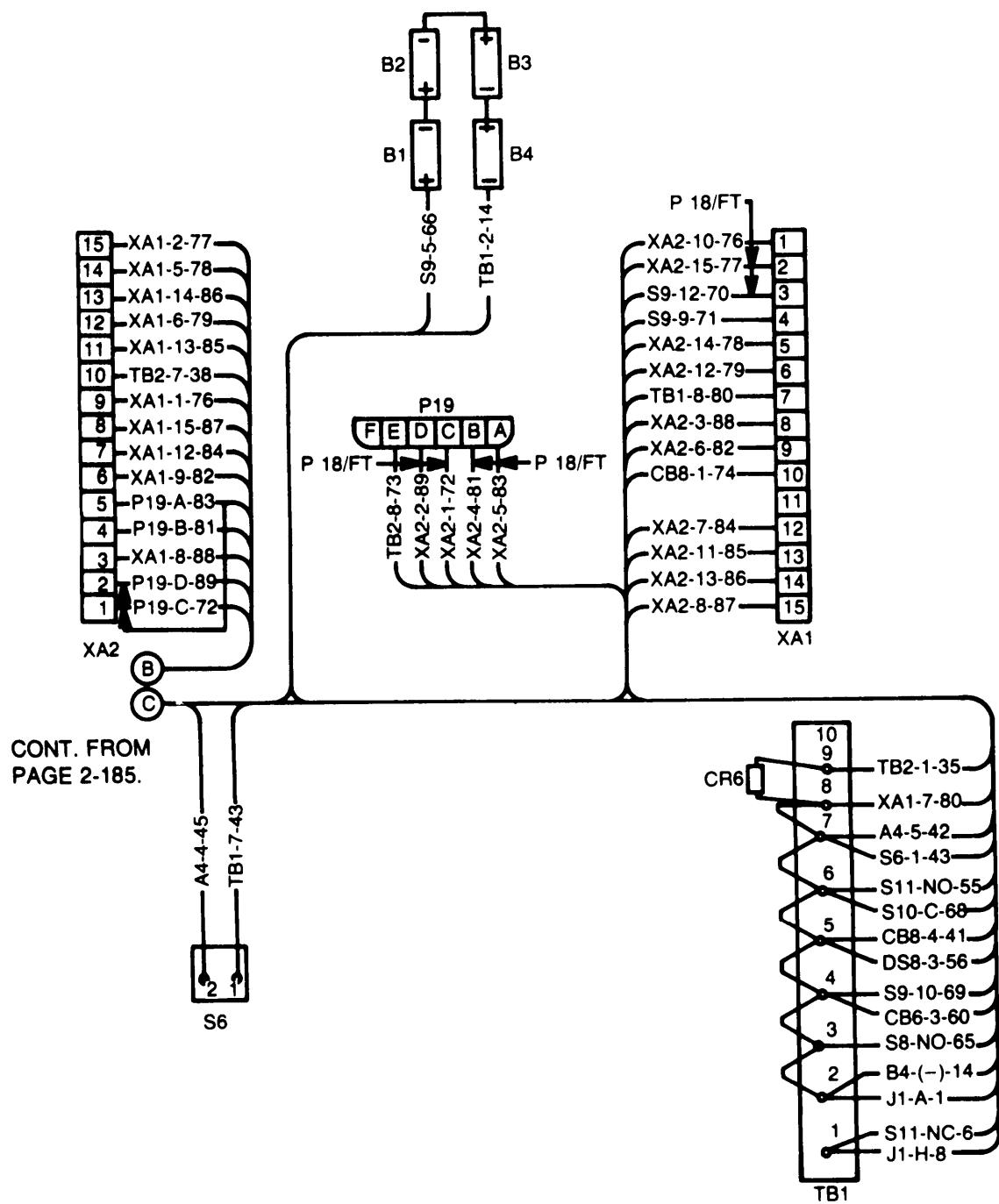


2-15. COMPARTMENT CONTROL MODULE - MAINTENANCE INSTRUCTIONS (Cont.).

| LOCATION | ITEM | ACTION |
|----------|------|--------|
|----------|------|--------|

REPAIR (Cont)Compartment Control
Module

Wiring

CONT. FROM
PAGE 2-185.

APPENDIX A REFERENCES

The following publications are related to information contained in this manual.

A-1. TECHNICAL MANUALS

| | |
|------------------------------|--|
| TM 3-4240-286-20&P | Organizational Maintenance Manual (Including Repair Parts and Special Tools List) for Collective Protection Equipment, Guided Missile Air Defense System, AN/TSQ-73; Consisting of Entrance, Protective, Pressurized, Collapsible, MIL 2 (NSN 4240-01-048-2923); Filter Unit, Gas-Particulate, 200 CFM, 208 V, 400 HZ, M56 (NSN 4240-00-237-0227); and Installation Kit, CBR, Protective Equipment, AN/TSQ-73, M263 (NSN 4240-01-063-7679) |
| TM 9-1430-651-12 | Operator's and Organizational Maintenance Manual, Employment and Preparation for Travel, Guided Missile Air Defense System, AN/TSQ-73 |
| TM 38-750 | The Army Maintenance Management System (TAMMS) |
| TM 43-0002-31 | Destruction of Chemical Weapons and Defense Equipment to Prevent Enemy Use |

A-2. COMMON TABLE OF ALLOWANCES

| | |
|----------------------|---|
| CTA 50-970 | Expendable Items (Except Medical, Class V, Repair Parts and Heraldic Items) |
|----------------------|---|

A-3. SUPPLY BULLETIN

| | |
|---------------------|---|
| SB 708-42 | Federal Supply Code for Manufacturers; United States and Canada-Code to Name (Cataloging Handbook H4-2) |
|---------------------|---|

A-4. SUPPLY CATALOGS

| | |
|-----------------------------|---|
| SC 5180-91-CL-R07 | Tool Kit, Electronic Equipment TK-105/G |
| SC 5180-90-CL-N26 | Tool Kit, General Mechanics |

A-5. TECHNICAL BULLETIN

| | |
|----------------------|----------------------|
| TB SIG 222 | Solder and Soldering |
|----------------------|----------------------|

APPENDIX B

REPAIR PARTS AND SPECIAL TOOLS LIST

Section 1. INTRODUCTION

B-1. Scope. This appendix lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for the performance of direct support maintenance of the Collective Protection Equipment for the AN/TSQ-73. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

B-2. General. This Repair Parts and Special Tools List is divided into the following sections:

a. *Section II. Repair Parts List.* A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in National stock number (NSN) sequence.

b. *Section III. Special Tools List.* Not applicable.

c. *Section IV. National Stock Number and Part Number Index.* A list in National item identification number (NIIN, the last nine figures of the NSN) sequence, of all National stock numbers (NSNs) appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

B-3. Explanation of Columns.

a. *Illustration.* This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. *Source, Maintenance, and Recoverability (SMR) Codes.*

(1) Source code. Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

| Code | Definition |
|------|---|
| PA | Item procured and stocked for anticipated or known usage. |
| PB | Item procured and stocked for insurance purposes because essentiality dictates that a minimum quantity be available in the supply system. |
| PC | Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature. |
| PD | Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment. |
| PE | Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities. |
| PF | Support equipment which will not be stocked but which will be centrally procured on demand. |
| PG | Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time. |
| KF | An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance. |
| KB | Item included in both a depot overhaul/repair kit and a maintenance kit. |

| Code | Definition |
|------|---|
| MO | Item to be manufactured or fabricated at organizational level. |
| MF | Item to be manufactured or fabricated at the direct support maintenance level. |
| AO | Item to be assembled at organizational level. |
| AF | Item to be assembled at direct support maintenance level. |
| XA | Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly. |
| XB | Item is not procured or stocked. If not available through salvage, requisition. |
| XD | A support item that is not stocked. When required, item will be procured through normal supply channels. |

NOTE

Cannibalization or salvage may be used as a source of supply for any items coded above, except those coded XA.

(2) Maintenance code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance.

| Code | Application/explanation |
|------|---|
| c | Crew or operator maintenance performed within organizational maintenance. |
| o | Support item is removed, replaced, used at the organizational level. |
| F | Support item is removed, replaced, used at the direct support level. |

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

| Code | Application/explanation |
|------|---|
| O | The lowest maintenance level capable of complete repair of the support item is the organizational level. |
| F | The lowest maintenance level capable of complete repair of the support item is the direct support level. |
| L | Repair restricted to specialized repair activity. Not applicable. |
| Z | Nonrepairable. No repair is authorized. |
| B | No repair is authorized. The item maybe reconditioned by adjusting, lubricating, etc, at the user level. No parts or special tools are procured for the maintenance of this item. |

(3) Recoverability code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

| Recoverability Code | Definition |
|---------------------|--|
| Z | Nonrepairable item. When unserviceable, condemn and dispose at the level indicated in position 3. |
| O | Repairable item. When uneconomically repairable, condemn and dispose at organizational level. |
| F | Repairable item. When uneconomically repairable, condemn and dispose at the direct support level. |
| L | Repairable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level. |
| A | Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/ directives for specific instructions. |

c. National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning purposes.

d. *Federal Supply Code for Manufacturer (FSCM)*. The FSCM is a five-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

e. *Part Number*. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is required, the item received may have a different part number than the part being replaced.

f. *Description*. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. *Unit of Measure (U/M)*. Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be required.

h. *Quantity Incorporated in Unit*. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc).

B-4. Special Information.

a. Useable On Codes are shown in the description column. Uncoded items are applicable to all models.

b. Detailed manufacturing instructions for items source coded to be manufactured or fabricated are found in maintenance portions of this manual. Bulk materials required to manufacturer items are listed in the Bulk Material Group of this appendix.

c. Detailed assembly instructions for items source coded to be assembled are found in the maintenance portions of this manual. Assembly components are listed immediately following the item to be assembled.

B-5. How to Locate Repair Parts.

a. When National Stock Number or Part Number is Unknown:

(1) *First*. Using the table of contents, determine the functional group with which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second*. Find the illustration covering the functional group to which the item belongs.

(3) *Third*. Identify the item on the illustration and note the illustration figure and item number of the item.

(4) *Fourth*. Using the repair parts listing, find the figure and item number noted on the illustration.

b. When National Stock Number or Part Number is Known:

(1) *First*. Using the index of National stock numbers and part numbers, find the pertinent NSN or part number. This index is in NIIN sequence followed by a list of part numbers in alphanumeric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second*. After finding the figure and item number, locate the figure and item number in the repair parts list.

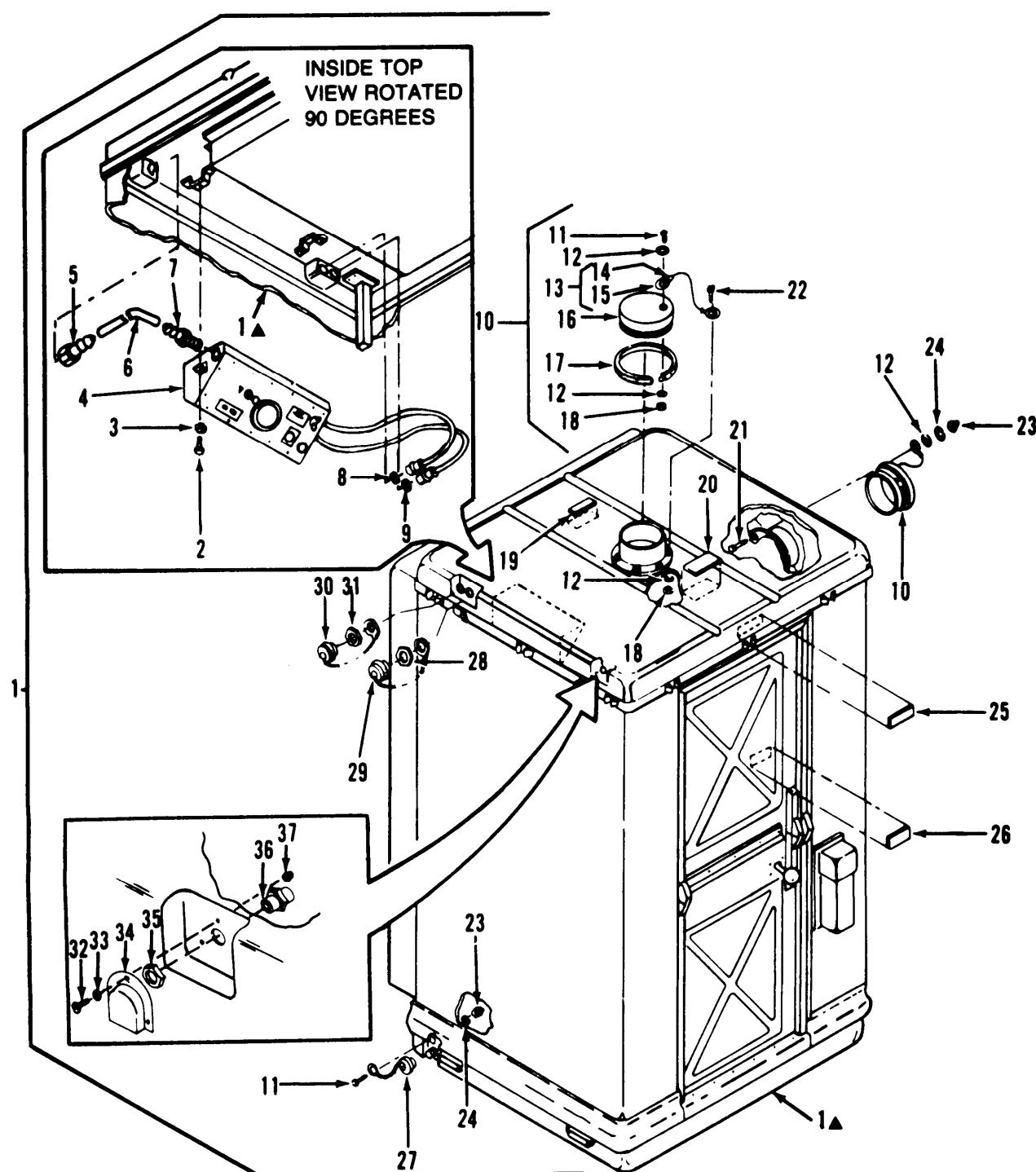
B-6. ABBREVIATIONS.

| Abbreviation | Explanation |
|--------------|--|
| amp | amperage |
| CBR | chemical, biological, radiological (warfare) |
| cfm | cubic feet per minute |
| cl | class |
| cres | corrosion-resistant steel |
| deg | degree |
| dia | diameter |
| elec | electrical |
| ext | external |
| fil | fillister |

| <i>Abbreviation</i> | <i>Explanation</i> | <i>Abbreviation</i> | <i>Explanation</i> |
|---------------------|--------------------|---------------------|------------------------------|
| ft | foot, feet | nom | nominal |
| gr | grade | oa | overall |
| h | high | od | outside diameter |
| hex | hexagonal | por m | plus or minus |
| hd | head | psi | pounds per square inch |
| hz | hertz | pst | paste |
| id | inside diameter | RFI | radio frequency interference |
| in | inch | spst | single-pole single-throw |
| intl | internal | thd | thread |
| lg | length, long | thk | thick |
| med | medium | v | volt |
| mfd | manufactured | w/ | with |
| min | minimum | w/o | without |
| mtg | mounting | | |

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Section II. REPAIR PARTS LIST

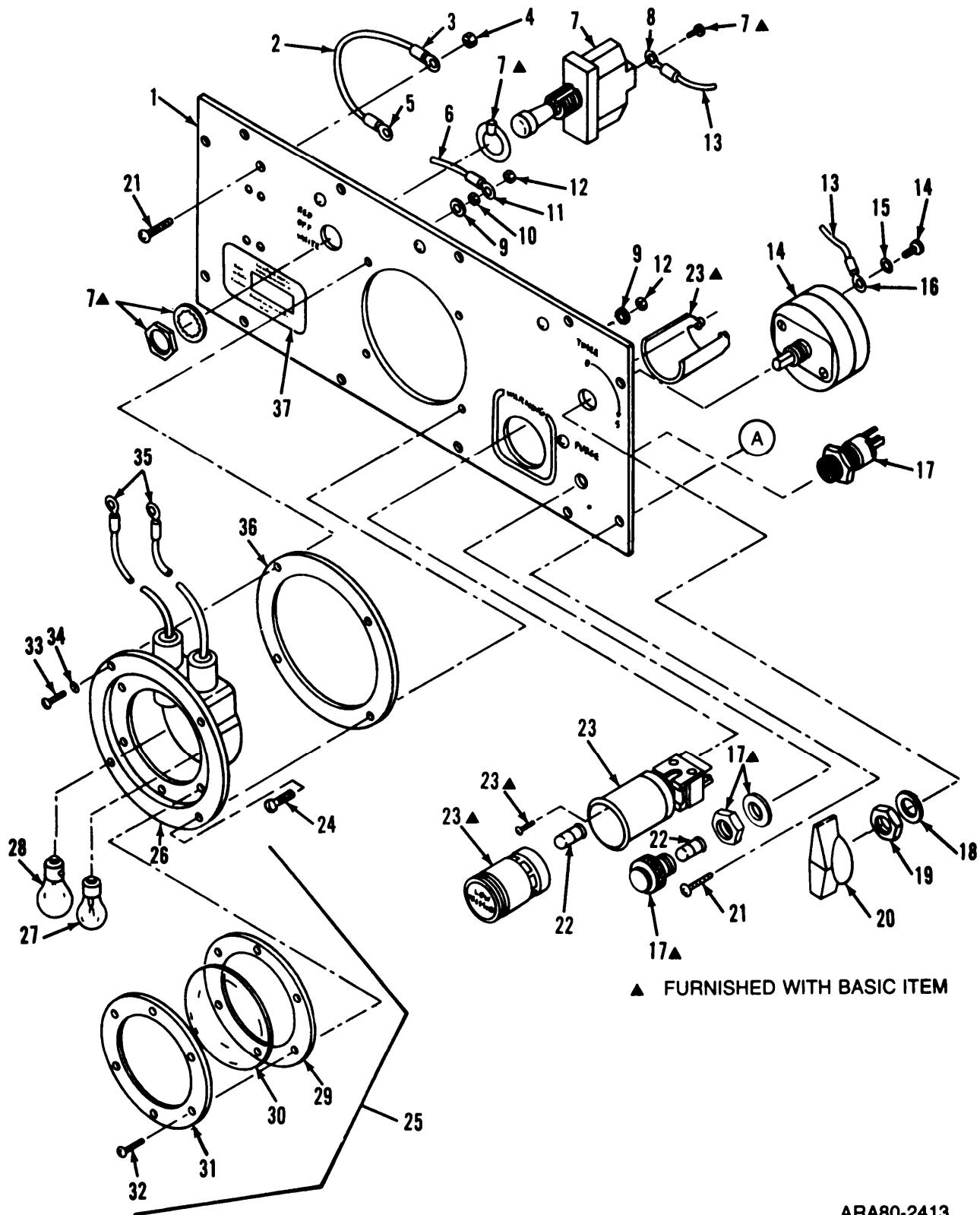


▲ FURNISHED WITH BASIC ITEM

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Figure B-1. M12 protective entrance

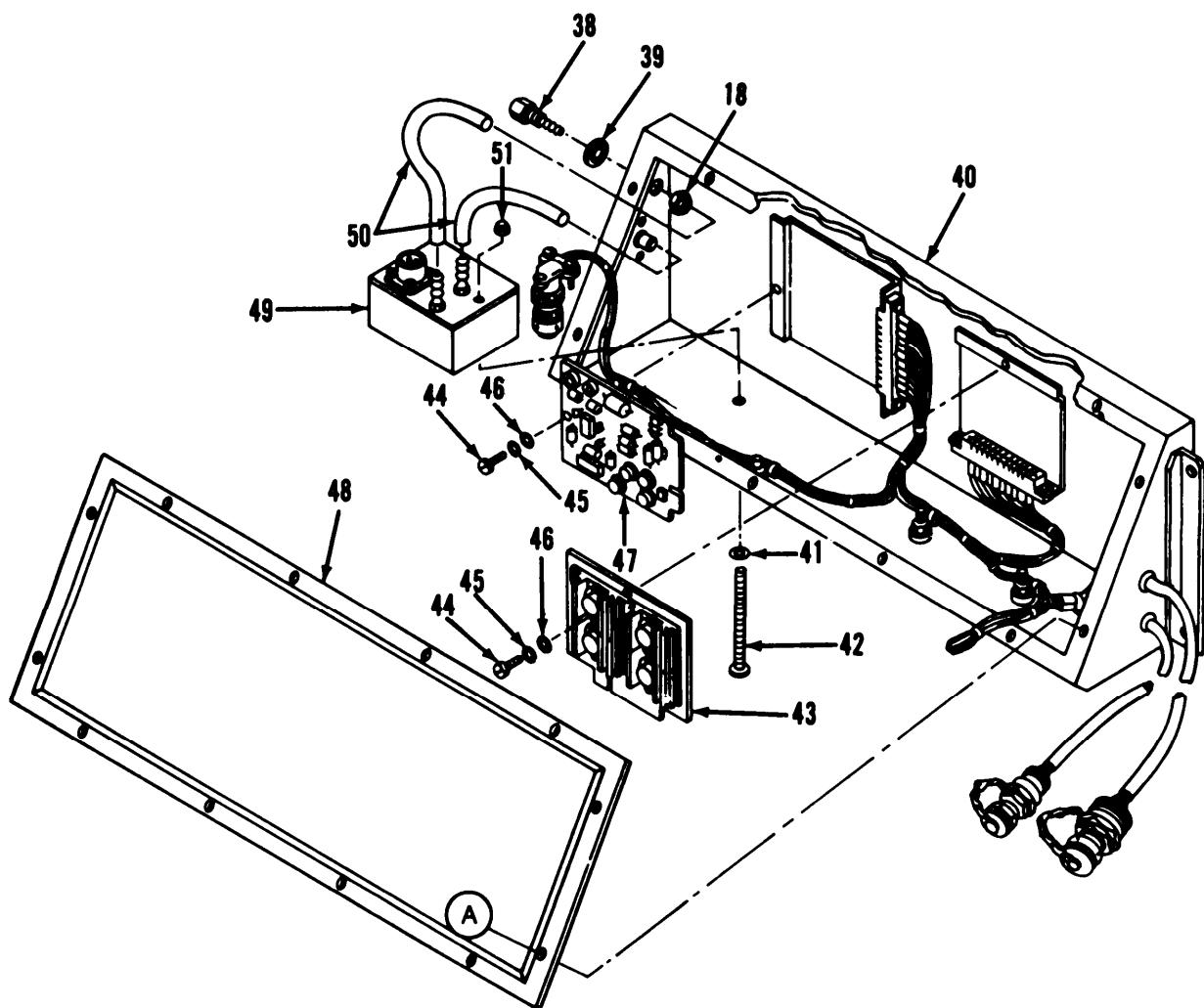
| TM3-4240-286-30&P ILLUSTRATION | | | | | | (7) | (8) |
|------------------------------------|--------------------|-------------|-----------------------------|-------|---------------------|---|------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | QTY INC IN |
| | | | | | | USABLE ON CODE | U/M UNIT |
| GROUP 0100 M12 PROTECTIVE ENTRANCE | | | | | | | |
| ES-19-6201-20 | | | | | | | |
| B-1 | 1 | PA000 | 4240-01-048-2923 | 81361 | ES-19-6201-20 | ENTRANCE,PROTECTIVE,PRESSURIZED: M12 | EA 1 |
| B-1 | 2 | PAOZZ | 5305-00-179-8946 | 96906 | MS51849-66 | SCREW,MACHINE HEX HD,NO.10-32UNF-2A,.3/4 IN LG | EA 3 |
| B-1 | 3 | PAOZZ | 5310-00-045-3296 | 96906 | MS35338-43 | WASHER,LOCK SPRING,NO.10 NOM SIZE | EA 3 |
| B-1 | 4 | PAOZZ | 4240-01-048-2803 | 81361 | E5-19-6357 | CONTROL MODULE,PROTECTIVE ENTRANCE | EA 1 |
| B-1 | 5 | PAOZZ | 4730-01-050-7540 | 30327 | KF03-04RV | ADAPTER,STRAIGHT | EA 1 |
| B-1 | 6 | MOOZZ | | 81361 | E5-19-6357-111 | HOSE,NONMETALLIC LOW PRESSURE: MFD FROM 4720-00-065-8682 | EA 1 |
| B-1 | 7 | PAOZZ | 4730-01-017-5119 | 30327 | KF03-02PS | ADAPTER,STRAIGHT | EA 1 |
| B-1 | 8 | PAOZZ | 5330-00-250-0236 | 96906 | MS29513-024 | PACKING,PREFORMED | EA 1 |
| B-1 | 9 | PAOZZ | 5330-00-248-3849 | 96906 | MS29513-019 | PACKING,PREFORMED | EA 1 |
| B-1 | 10 | PA000 | 5340-01-048-6327 | 81361 | C5-19-6145 | CAP,PROTECTIVE,DUST AND MOISTURE SEAL | EA 2 |
| B-1 | 11 | PAOZZ | 5305-00-115-9934 | 96906 | MS51849-55 | SCREW,MACHINE HEX HD,NO.8-32UNC-2A,.5/8 IN LG | EA 3 |
| B-1 | 12 | PAOZZ | 5310-00-765-3197 | 96906 | MS27183-41 | WASHER,FLAT .188 IU ID,.438 IN OD, .049 IN THK | EA 5 |
| B-1 | 13 | A0000 | | 99862 | CL-2-FANDCL-2-C-8.0 | CABLE | EA 2 |
| B-1 | 14 | PAOZZ | 4030-00-878-8693 | 99862 | CL2F | FERRULE,WIRE ROPE | EA 4 |
| B-1 | 15 | MOOZZ | | 99862 | CL-2-C-8.0 | CABLE,NYLON: 8IN. LG MFD FROM 4010-00-069-5180 | EA 2 |
| B-1 | 16 | XAOZZ | | 81361 | C5-19-6309 | CAP,RUBBER | EA 2 |
| B-1 | 17 | PAOZZ | 4730-00-908-6294 | 96906 | MS35842-16 | CLAMP,HOSE 4-1/8 TO 7 IN DIA RANGE | EA 2 |
| B-1 | 18 | PAOZZ | 5310-00-811-3494 | 96906 | MS21044N08 | NUT,SELF-LOCKING,HEXAGON: 8-32 UNJC-3B | EA 3 |
| B-1 | 19 | PAOZZ | 9905-01-068-2368 | 81361 | 5-19-6657 | PLATE,INSTRUCTION NO STEP | EA 1 |
| B-1 | 20 | PAOZZ | 9905-01-049-1385 | 81361 | C5-19-6175 | PLATE,INSTRUCTION | EA 1 |
| B-1 | 21 | PAOZZ | 5305-00-211-8193 | 96906 | MS51849-54 | SCREW,MACHINE HEX HD,NO.8-32UNC-2A,1/2 IN LG | EA 1 |
| B-1 | 22 | PAOZZ | 5305-00-157-5621 | 96906 | MS51849-56 | SCREW,MACHINE HEX HD, NO.8-32UNC-2A,.3/4 IN LG | EA 1 |
| B-1 | 23 | PAOZZ | 5310-00-928-9821 | 96906 | MS24679-2 | NUT,PLAIN,CAP NO. 8-32UNC-2B | EA 2 |
| B-1 | 24 | PAOZZ | 5310-00-045-3299 | 96906 | MS35338-42 | WASHER,LOCK SPRING,NO.8 NOM SIZE | EA 2 |
| B-1 | 25 | PAOZZ | 9905-01-061-7139 | 81361 | C5-19-6316-10 | PLATE, IDENTIFICATION: ENTRANCE,PROTECTIVE,PRESSURIZED | EA 1 |
| M12 | | | | | | | |
| B-1 | 26 | PAOZZ | 9905-01-048-2790 | 81361 | B5-19-6238 | PLATE,INSTRUCTION CAUTION,DO NOT ENTER WHEN PROTECTIVE ENTRANCE IS OCCUPIED | EA 1 |
| B-1 | 27 | PAOZZ | 5410-00-981-8701 | 01943 | 8173 | CAP,FILLER OPENING W/CHAIN | EA 1 |
| B-1 | 28 | PAOZZ | 5310-01-054-4643 | 96906 | MS3186-34 | NUT,PLAIN,HEXAGON 11/16-24UNEF-2B | EA 1 |
| B-1 | 29 | PAOZZ | 5935-00-912-9599 | 96906 | MS3181-10N | COVER,ELECTRICAL CONNECTOR | EA 1 |
| B-1 | 30 | PAOZZ | 5935-00-990-5580 | 96906 | MS3181-14N | COVER,ELECTRICAL CONNECTOR | EA 1 |
| B-1 | 31 | PAOZZ | 5310-00-435-8983 | 96906 | MS3186-43 | NUT,PLAIN,HEXAGON 1-2OUNEF-2B | EA 1 |
| B-1 | 32 | PAOZZ | 5305-00-115-9406 | 96906 | MS51849-53 | SCREW,MACHINE HEX HD,NO.6-32UNC-2A,.38IN LG | EA 3 |
| B-1 | 33 | PAOZZ | 5310-00-045-3299 | 96906 | MS35338-42 | WASHER,LOCK SPRING NO.8 NOM SIZE | EA 3 |
| B-1 | 34 | PAOZZ | 4240-01-049-0804 | 81361 | C5-19-6236 | COVER,PROTECTIVE | EA 1 |
| B-1 | 35 | PAOZZ | 5310-00-897-6081 | 96906 | MS35691-32 | NUT,PLAIN,HEXAGON JAM,7/16-20 UNF-2B | EA 1 |
| B-1 | 36 | PAOZZ | 4730-01-067-9232 | 81361 | C5-19-6654 | ADAPTER,PIPE TO TUBE 1/4NDS,7/16-20UNF-2A | EA 1 |
| B-1 | 37 | PAOZZ | 5310-00-928-9821 | 96906 | MS24679-2 | NUT,PLAIN,CAP NO. 8-32UNC-2B | EA 3 |



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Figure B-2. Protective entrance control module (sheet 1 of 2)

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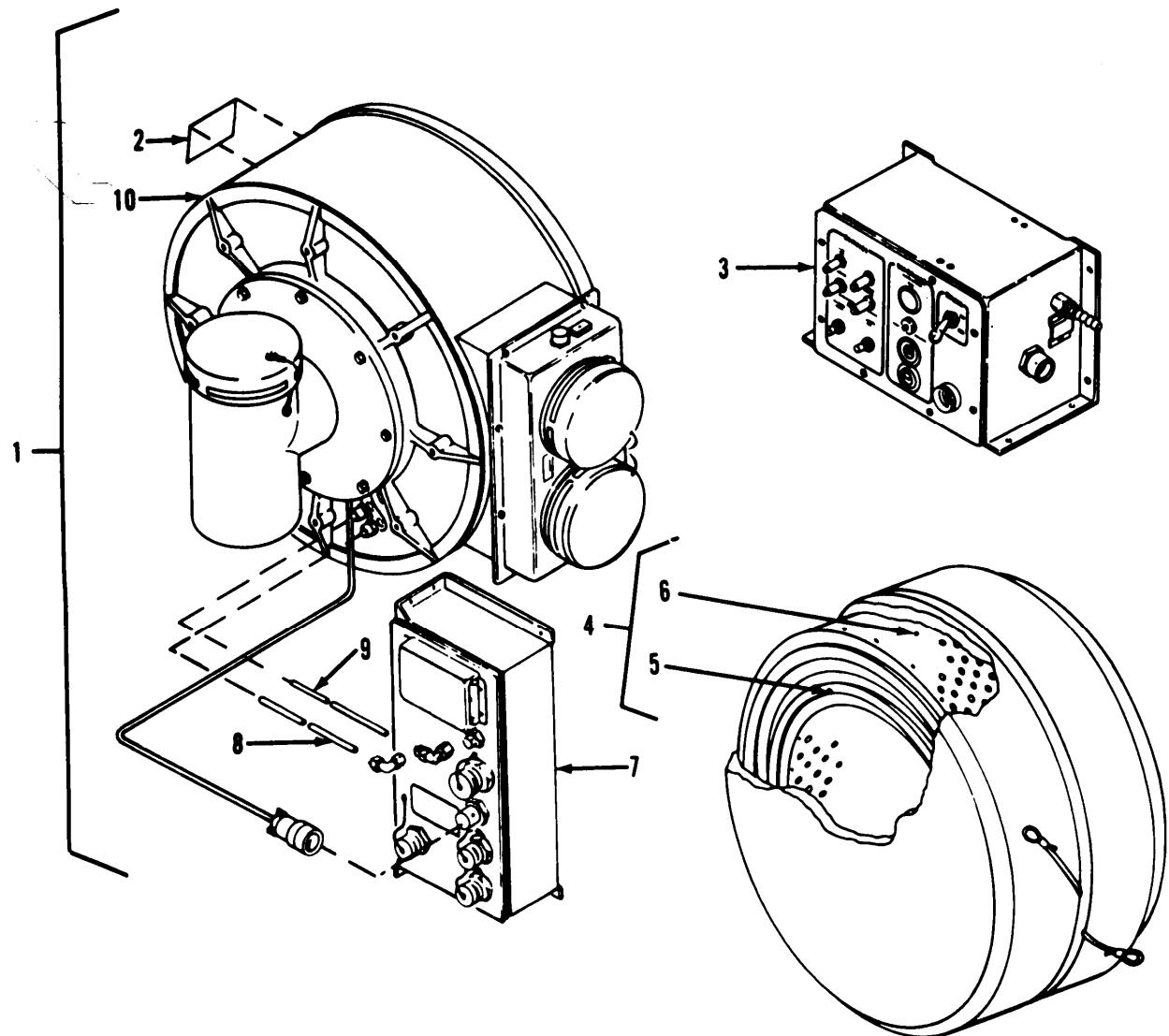
Figure B-2. Protective entrance control module (sheet 2 of 2)

| TM3-4240-286-30&P | | | | | | (7) | (8) |
|--------------------------------|--------------------|------------------|-----------------------------|----------------|---|----------------|------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | QTY INC IN |
| | | | | | | USABLE ON CODE | U/M UNIT |
| GROUP 0110 PROTECTIVE ENTRANCE | | | | | | | |
| CONTROL MODULE | | | | | | | |
| ES-19-6357 | | | | | | | |
| B-2 1 | XAFZZ | | 81361 | E5-19-6360 | PLATE, LETTERED | | EA 1 |
| B-2 2 | MFFZZ | | 81349 | M5086/1-20-9 | WIRE, ELECTRICAL MFD FROM 6145-00-578-7519 | | FT V |
| B-2 3 | PAFZZ | 5940-00-143-4771 | 96906 | MS25036-103 | TERMINAL, LUG CRIMP STYLE, 22-18 AWG WIRE SIZE, NO. 10 STUD SIZE | | EA 1 |
| B-2 4 | PAFZZ | 5310-00-877-5797 | 96906 | MS21044N3 | NUT, SELF-LOCKING, HEXAGON: NO. 10-32UNJF-38 | | EA 1 |
| B-2 5 | PAFZZ | 5940-00-825-3699 | 96906 | MS17143-10 | TERMINAL, LUG CRIMP STYLE, 22-18 AWG WIRE SIZE, NO. 5 STUD SIZE | | EA 9 |
| B-2 6 | MFFZZ | | 81349 | M5086/1-16-9 | WIRE, ELECTRICAL MFD FROM 6145-00-578-7517 | | FT V |
| B-2 7 | PAFZZ | 5930-00-057-5848 | 96906 | MS24658-21M | SWITCH, TOGGLE | | EA 1 |
| B-2 8 | PAFZZ | 5940-00-204-8966 | 96906 | MS25036-102 | TERMINAL, LUG CRIMP STYLE, 22-18 AWG WIRE SIZE, NO. 6 STUD SIZE | | EA 1 |
| B-2 9 | PAFZZ | 5310-00-575-5292 | 83330 | 2660 | WASHER, SHOULDERED PLASTIC, .031 IN. SHOULDER H, .140 IN ID, .375 | | EA 4 |
| B-2 10 | PAFZZ | 5310-00-934-9748 | 96906 | MS35649-244 | NUT, PLAIN, HEXAGON 4-40-UNC-2B | | EA 1 |
| B-2 11 | PAFZZ | 5940-00-615-6073 | 96906 | MS25036-152 | TERMINAL, LUG CRIMP STYLE, 16-14 AWG WIRE SIZE, NO. 4 STUD SIZE | | EA 1 |
| B-2 12 | PAFZZ | 5310-00-088-0551 | 96906 | MS21044N04 | NUT, SELF-LOCKING, HEXAGON: NO. 4-4OUNJC-3B | | EA 4 |
| B-2 13 | MFFZZ | | 81349 | M5086/1-22-9 | WIRE, ELECTRICAL MFD FROM 6145-00-578-7520 | | FT V |
| B-2 14 | PAFZZ | 6645-01-113-2525 | 79919 | 71015 | TIMER, INTERVAL TIME OFF TYPE, SPST, CENTER MTQ, SPLASHPROOF, 5 MIN AT 90DEG STOP, KNOB NO. K35B1 | | EA 1 |
| B-2 15 | PAFZZ | 5310-00-559-0070 | 96906 | MS35333-38 | WASHER, LOCK INTL TOOTH, NO. 8 NOM SIZE | | EA 2 |
| B-2 16 | PAFZZ | 5940-00-557-1629 | 96906 | MS25036-149 | TERMINAL, LUG CRIMP STYLE, 22-18 AWG WIRE SIZE, NO. 8 STUD SIZE | | EA 4 |
| B-2 17 | PAFZZ | 6210-00-635-4700 | 76854 | VM911M8 | LIGHT, INDICATOR | | EA 1 |
| B-2 18 | PAFZZ | 5330-00-954-6684 | 80205 | NAS1598-6Y | PACKING WITH RETAINER: 3/8 IN. BOLT SIZE | | EA 2 |
| B-2 19 | PAFZZ | 5310-00-199-1056 | 96906 | MS35650-3385 | NUT, PLAIN, HEXAGON 3/8-24UNF-2B | | EA 2 |
| B-2 20 | PAOZZ | 5355-00-821-5225 | 79919 | K35B1 | KNOB | | EA 1 |
| B-2 21 | PAFZZ | 5305-00-148-1286 | 96906 | MS3213-36 | SCREW, MACHINE PAN HD, SELF-SEALING, NO. 10-32UNF-2A, 3/4 IN. LG | | EA 13 |
| B-2 22 | PAOZZ | 6240-00-763-7744 | 81348 | W-L-00111/7 | LAMP, INCANDESCENT | | EA 3 |
| B-2 23 | PAFZZ | 5930-01-052-7684 | 81361 | E5-19-6376-155 | SWITCH, PUSH HOUSING AND SWITCH: ENGRAVED "LOW PRESSURE" | | EA 1 |
| B-2 24 | PAFZZ | 5305-01-057-7206 | 96906 | MS3213-5 | SCREW, MACHINE PAN HD, SELF-SEALING, NO. 4-40UNC-2A, 1/2 IN LG | | EA 3 |
| B-2 25 | PAFFF | 6220-00-891-1491 | 96906 | MS25358-7 | LIGHT, DOME | | EA 1 |
| B-2 26 | XAFZZ | | 96906 | MS25358-3 | HOUSING, DOME LIGHT | | EA 1 |
| B-2 27 | PAOZZ | 6240-00-155-7784 | 96906 | MS35478-307 | LAMP, INCANDESCENT | | EA 1 |
| B-2 28 | PAOZZ | 6240-00-155-7932 | 96906 | MS25235R311 | LAMP, INCANDESCENT RED | | EA 1 |
| B-2 29 | PAOZZ | 5330-00-143-8571 | 96906 | MS25358-6 | GASKET DOME LIGHT | | EA 1 |
| B-2 30 | PAOZZ | 6220-00-283-9732 | 96906 | MS25358-4 | LENS, LIGHT | | EA 1 |
| B-2 31 | XAOZZ | | 96906 | MS25358-5 | RETAINER, LIGHT | | EA 1 |
| B-2 32 | PAOZZ | 5305-00-889-2999 | 96906 | MS35206-217 | SCREW, MACHINE PAN HD, NO. 4-40UNC-2A, 1/2 IN LG | | EA 6 |

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| TM3-4240-286-30&P | | | | | | (7) | (8) |
|-------------------|--------------------|-------------|-----------------------------|----------------|----------------|---|-------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | DESCRIPTION | QTY INC IN | |
| | | | | | USABLE ON CODE | U/M UNIT | |
| B-2 | 33 | PAFZZ | 5305-00-984-4976 | 96906 | MS35206-219 | SCREW,MACHINE PAN HD,NO.4-40UNC-2A,.3/4IN LG | EA 1 |
| B-2 | 34 | PAFZZ | 5310-00-058-3599 | 96906 | MS35335-57 | WASHER,LOCK EXT TOOTH,NO 4 NOM SIZE | EA 1 |
| B-2 | 35 | PAFZZ | 5940-00-113-8179 | 96906 | MS25036-107 | TERMINAL,LUG CRIMP STYLE,16-14 AWG WIRE SIZE,NO.6 STUD SIZE | EA 2 |
| B-2 | 34 | MFFZZ | | 81361 | C5-19-5676 | GASKET MFD FROM 9320007858171 | EA 1 |
| B-2 | 37 | PAOZZ | 9905-01-053-3006 | 81361 | C5-19-6316-4 | PLATE,IDENTIFICATION: CONTROL MODULE,PROTECTIVE ENTRANCE | EA 1 |
| B-2 | 38 | PAFZZ | 4730-01-053-5923 | 81361 | B5-19-6362 | ADAPTER,STRAIGHT,HOSE | EA 1 |
| B-2 | 39 | PAFZZ | 5330-00-954-6684 | 80205 | NAS1598-6Y | PACKING WITH RETAINER: 3/8 IN BOLT SIZE | EA 1 |
| B-2 | 40 | XAFZZ | | 81361 | E5-19-6358 | HOUSING | EA 1 |
| B-2 | 41 | PAFZZ | 5330-00-928-0290 | 80205 | NAS1598-06Y | PACKING WITH RETAINER: NO 6 SCREW SIZE | EA 2 |
| B-2 | 42 | PAFZZ | 5305-00-920-0327 | 12909 | 500881 | SCREW,MACHINE PAN HD,SLOTTED,CRES,NO.6-32UNC-2A,2-1/2 IN LG | EA 2 |
| B-2 | 43 | PAFZZ | 5999-01-050-4635 | 81361 | C5-19-6197 | PRINTED CIRCUIT BOARD: POWER | EA 1 |
| B-2 | 44 | PAFZZ | 5305-00-227-1543 | 96906 | MS51849-33 | SCREW,MACHINE HEX HD,NO.6-32UNC-2A,.38 IN LG | EA 2 |
| B-2 | 45 | PAFZZ | 5310-00-045-4007 | 96906 | MS35338-41 | WASHER,LOCK SPRING,NO 6 NOM SIZE | EA 2 |
| B-2 | 46 | PAFZZ | 5310-00-983-8483 | 96906 | MS27183-5 | WASHER,FLAT .156 IN ID,.312 IN OD, .035 IN THK | EA 2 |
| B-2 | 47 | PAFZZ | 5999-01-050-4636 | 81361 | D5-19-6193-20 | PRINTED CIRCUIT BOARD: SWITCHING | EA 1 |
| B-2 | 48 | PAFZZ | 5330-01-085-3267 | 81361 | 5-19-6361 | GASKET CONTROL MODULE | EA 1 |
| B-2 | 49 | PAFZZ | 6685-01-056-5283 | 33107 | P92-1020 | TRANSMITTER,PRESSURE | EA 1 |
| B-2 | 50 | MFFZZ | | 81361 | E5-19-6357-47 | TUBING NONMETALLIC: 3/16 IN NOM ID, GREEN, MFD FROM 9330010731011 | IN 13 |
| B-2 | 51 | PAFZZ | 5310-00-081-8087 | 96906 | MS21044N06 | NUT,SELF-LOCKING,HEXAGON: NO 6-32UNJC-3B | EA 2 |

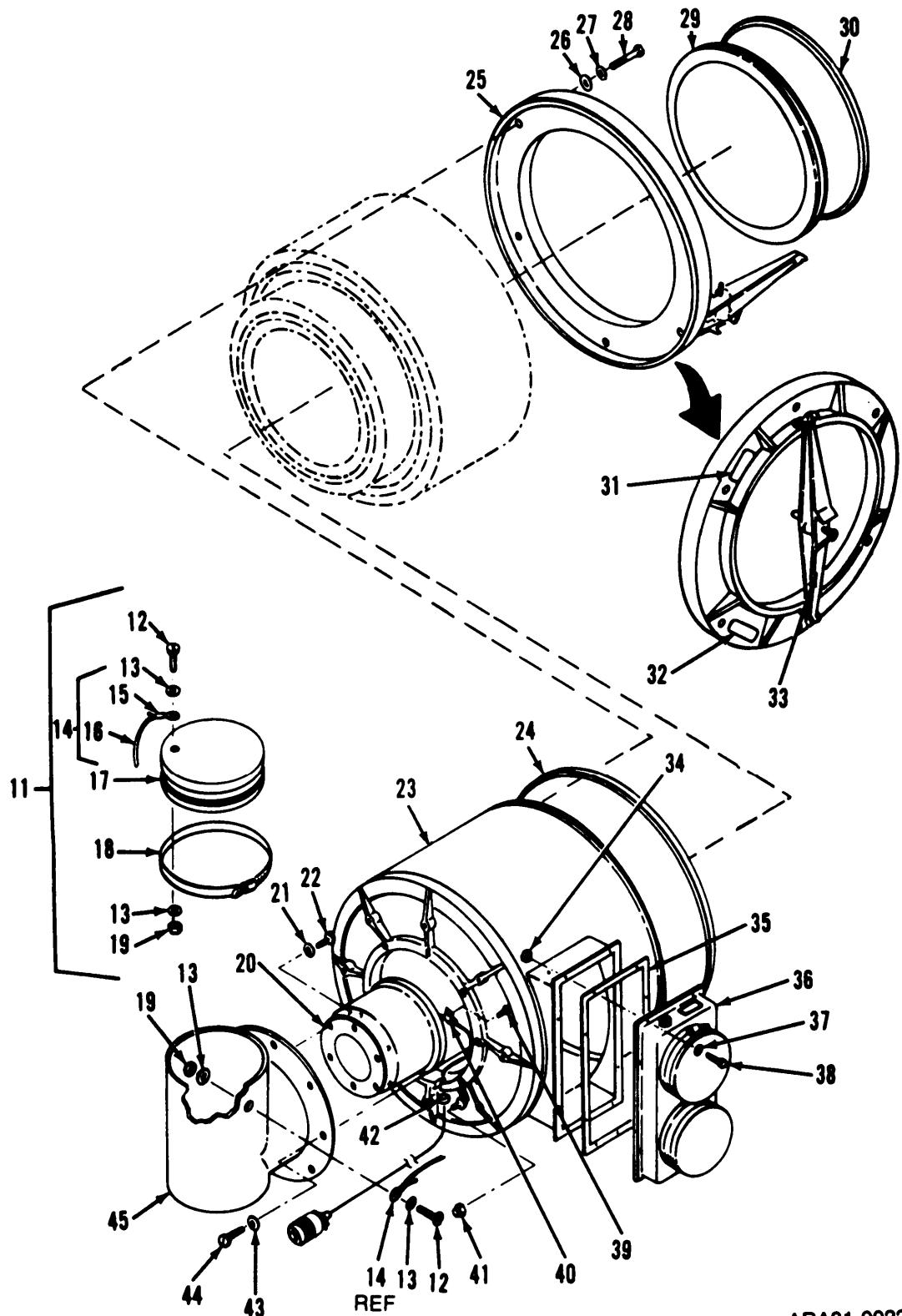
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Figure B-3. M56 gas-particulate filter unit (sheet 1 of 2)

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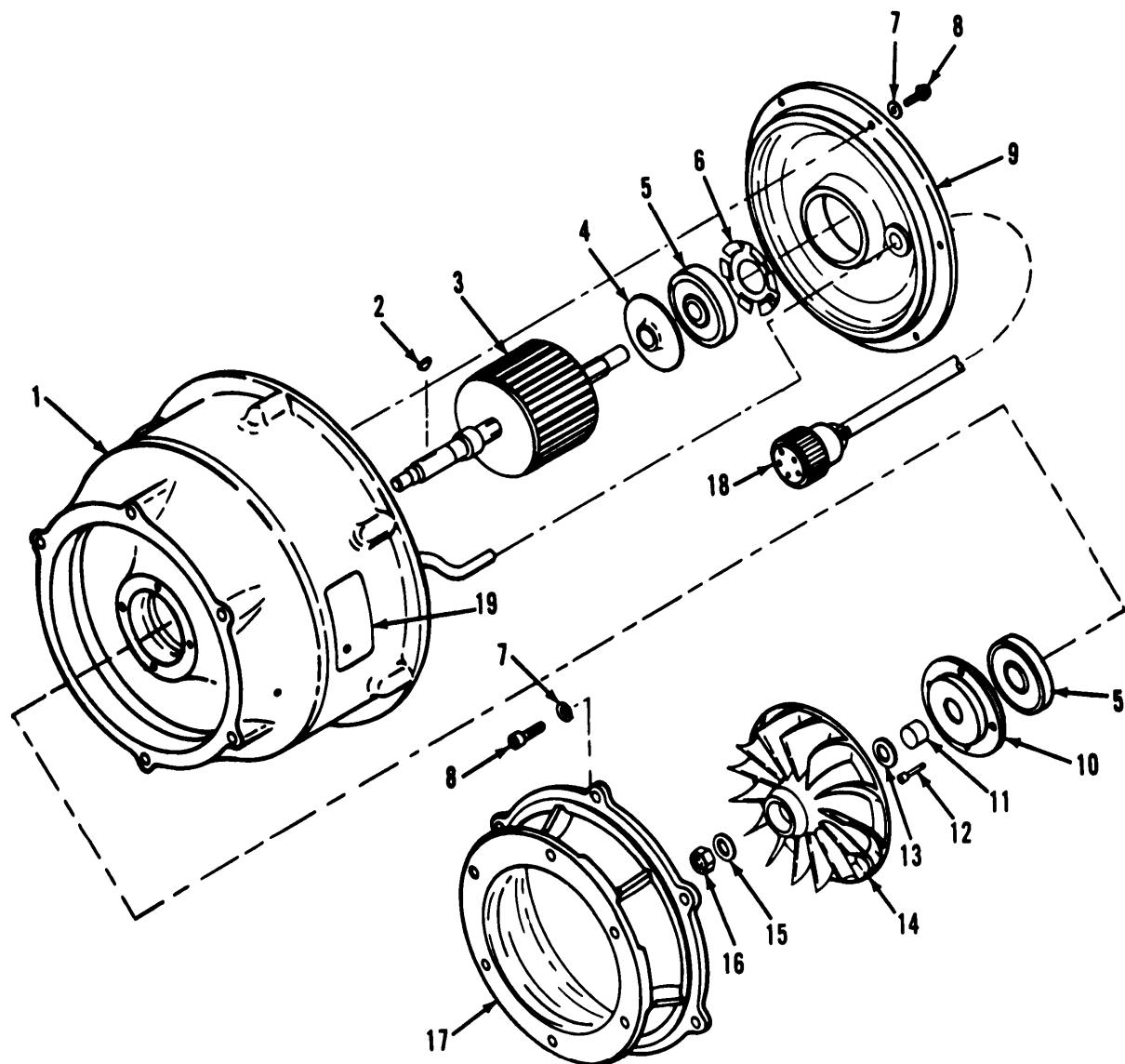
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Figure B-3. M56 gas-particulate filter unit (sheet 2 of 2)

| TM3-4240-286-30&P | | CHANGE 1 | | (4) | (5) | (6) | (7) | (8) |
|--|--------------------|-------------|-----------------------------|------------------|---------------------|--|--|----------|
| (A) FIG. NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | QTY INC IN | |
| USABLE ON CODE | | | | | | | | U/M UNIT |
| GROUP 0200 M56 GAS PARTICULATE FILTER UNIT | | | | | | | | |
| | | | | | | E5-19-6402 | | |
| * | B-3 | 1 | PAOFA | 4240-00-237-0227 | 81361 | E5-19-6402 | FILTER UNIT, GAS-PARTICULATE: 1 FILTER,M56 | EA 1 |
| B-3 | 2 | PAOZZ | 9905-01-071-5711 | 81361 | 5-19-6316-9 | PLATE, IDENTIFICATION: FILTER UNIT,GAS-PARTICULATE,1 FILTER,M56 | EA 1 | |
| B-3 | 3 | PAOFF | 4240-01-057-3378 | 81361 | E5-19-6376 | CONTROL MODULE COMPARTMENT | EA 1 | |
| B-3 | 4 | PAOZA | 4240-01-067-5605 | 81361 | 5-19-6718 | FILTER SET,GAS AND PARTICULATE | SE 1 | |
| B-3 | 5 | PAOZA | 4240-01-066-3266 | 81361 | D5-19-6262 | FILTER,PARTICULATE | EA 1 | |
| B-3 | 6 | XAOZA | | 81361 | D5-19-6368 | FILTER,GAS | EA 1 | |
| B-3 | | PAOFF | 4240-01-068-8645 | 81361 | E5-19-6387 | POWER DISTRIBUTION UNIT | EA 1 | |
| B-3 | 8 | MOOZZ | | 81361 | E5-19-6402-8 | TUBING,NONMETALLIC MFD FROM 4720-01-053-0316 | EA 1 | |
| B-3 | 9 | MOOZZ | | 81361 | E5-19-6402-7 | TUBING,NONMETALLIC 1/4 IN OD,RED,MFD FROM 4720-00-996-0381 | EA 1 | |
| B-3 | 10 | XBOFF | 4240-01-054-7020 | 81361 | E5-19-6314-20 | HOUSING UNIT, FAN AND AIRFLOW VALVE | EA 1 | |
| B-3 | 11 | PAOOO | 5340-01-048-6327 | 81361 | C5-19-6145 | CAP,PROTECTIVE,DUST AND MOISTURE SEAL | EA 1 | |
| B-3 | 12 | PAOZZ | 5305-00-115-9934 | 96906 | MS51849-55 | SCREW,MACHINE HEX HD,NO 8-32UNC-2A,5/8 IN LG | EA 2 | |
| B-3 | 13 | PAOZZ | 5310-00-765-3197 | 96906 | MS27183-41 | WASHER,FLAT .188 IN ID, .438 IN OD, .049 IN THK | EA 4 | |
| B-3 | 14 | AOOOO | | 99862 | CL-2-FANDCL-2-C-8.0 | CABLE | EA 1 | |
| B-3 | 15 | PAOZZ | 4030-00-878-8693 | 99862 | CL2F | FERRULE,WIRE ROPE | EA 2 | |
| B-3 | 16 | MOOZZ | | 99862 | CL-2-C-8.0 | CABLE,NYLON: 8 IN LG,MFD FROM 4010-00-069-5180 | EA 1 | |
| B-3 | 17 | XAOZZ | | 81361 | C5-19-6309 | CAP,RUBBER | EA 1 | |
| B-3 | 18 | PAOZZ | 4730-00-908-6294 | 96906 | MS35842-16 | CLAMP,HOSE 4-1/8 TO 7 IN DIA RANGE | EA 1 | |
| B-3 | 19 | PAOZZ | 5310-00-811-3494 | 96906 | MS21044N08 | NUT,SELF-LOCKING,HEXAGON: NO 8-32UNJC-3B | EA 2 | |
| B-3 | 20 | PAOFF | 4140-01-059-2095 | 81361 | E5-19-6240 | FAN,TUBEAXIAL MAIN: 200 CFM | EA 1 | |
| B-3 | 21 | PAOZZ | 5310-00-809-4058 | 96906 | MS27183-10 | WASHER,FLAT .281 IN ID, .625 IN OD, .065 IN THK | EA 6 | |
| B-3 | 22 | PAOZZ | 5305-00-068-0513 | 96906 | MS90727-6 | SCREW,CAP,HEXAGON HEAD: 1/4-28UNF-2A,3/4 IN LG | EA 6 | |
| B-3 | 23 | XBOZZ | 4240-01-107-2433 | 81361 | E5-19-6120 | HOUSING,GAS-PARTICU 1 FILTER | EA 1 | |
| B-3 | 24 | PAOZZ | 5330-01-069-9824 | 81361 | C5-19-5687-2 | SEAL,RUBBER | EA 1 | |
| B-3 | 25 | XBOZZ | | 81361 | E5-19-6128 | COVER,ACCESS | EA 1 | |
| B-3 | 26 | PAOZZ | 5310-00-080-6004 | 96906 | MS27183-14 | WASHER,FLAT .406 IN ID,.812 IN OD, .065 IN THK | EA 6 | |
| B-3 | 27 | PAOZZ | 5310-00-187-2400 | 88044 | AN960PD616 | WASHER,FLAT 0.390 IN ID, 0.625 IN OD, 0.063 IN THK | EA 6 | |
| B-3 | 28 | PAOZZ | 5305-00-269-3240 | 96906 | MS90727-64 | SCREW,CAP,HEXAGON HEAD: 3/8-24UNF-2A,1-1/2 IN LG | EA 6 | |
| B-3 | 29 | XBOZZ | | 81361 | D5-19-6260 | COVER,INNER | EA 1 | |
| B-3 | 30 | PAOZZ | 5330-01-068-0515 | 81361 | C5-19-5687-1 | SEAL,RUBBER | EA 1 | |
| B-3 | 31 | PAOZZ | 9905-01-067-8634 | 81361 | B5-19-6134 | PLATE,INSTRUCTION WARNING TORQUE OUTER COVER BOLTS 180 TO 200INCH POUNDS | EA 1 | |
| B-3 | 32 | PAOZZ | 9905-01-066-3084 | 81361 | 5-19-6135 | PLATE,INSTRUCTION WARNING-DO NOT REMOVE COVERS TO SERVICE COMPONENTS AFTER TOXIC EXPOSURE,WITHOUT OBSERVING PROPER HANDLING PROCEDURES | EA 1 | |
| B-3 | 33 | PAOZZ | 9905-01-050-7557 | 81361 | B5-19-6133 | PLATE,INSTRUCTION WARNING-TIGHTEN UNTIL SLEEVE IS FLUSH WITH TOP SURFACE | EA 1 | |
| B-3 | 34 | PAOZZ | 5310-00-877-5797 | 96906 | MS21044N3 | NUT,SELF-LOCKING,HEXAGON: NO 10-32UNJF-3B | EA 8 | |

| TM3-4240-286-30&P | | | | | | (7) | (8) | |
|-------------------|--------------|----------|-----------------------|-------------|----------------|---|------|---|
| (1) | (2) | (3) | (4) | (5) | (6) | QTY | | |
| FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | DESCRIPTION | INC IN | | |
| | | | | | USABLE ON CODE | U/M | UNIT | |
| B-3 | 35 | PAOZZ | 5330-01-088-4442 | 81361 | 5-19-6348 | GASKET AIRFLOW VALVE | EA | 1 |
| B-3 | 36 | PAOFF | 4240-01-055-1493 | 81361 | E5-19-6136 | VALVE,AIRFLOW | EA | 1 |
| B-3 | 37 | PAOZZ | 5310-00-014-5850 | 96906 | MS27183-42 | WASHER,FLAT .219 IN ID, .500 IN OD,.049 IN THK | EA | 8 |
| B-3 | 38 | PAOZZ | 5305-00-824-7363 | 80205 | NAS1096-3-12 | SCREW,MACHINE HEX HD,NO.10-32NF-3A,3/4 IN LG | EA | 8 |
| B-3 | 39 | PAOZZ | 5305-00-180-4966 | 96906 | MS51849-64 | SCREW,MACHINE HEX HD,NO 10-32UNF-2A,1/2 IN LG | EA | 1 |
| B-3 | 40 | PAOZZ | 5340-00-119-4705 | 96906 | MS9352-05 | CLAMP,LOOP CUSHIONED,3/8 IN NOM TUBE OD | EA | 1 |
| B-3 | 41 | PAOZZ | 4730-00-817-1891 | 30327 | 261P1-4 | NUT,TUBE COUPLING 1/4 IN TUBE OD,3/8-24 THD SIZE,W/SLEEVE | EA | 2 |
| B-3 | 42 | PAOZZ | 5365-01-057-7379 | 81361 | B5-19-6347 | BUSHING,RUBBER | EA | 1 |
| B-3 | 43 | PAOZZ | 5310-00-081-4219 | 96906 | MS27183-12 | WASHER,FLAT .344 IN ID, .688 IN OD, .065 IN THK | EA | 8 |
| B-3 | 44 | PAOZZ | 5305-00-051-4075 | 96906 | MS90727-33 | SCREW,CAP,HEXAGON HEAD: 5/16-24UNF-2A,7/8 IN LG | EA | 8 |
| B-3 | 45 | PAOZZ | 4520-01-057-7010 | 81361 | D5-19-6401 | TEE,AIR CONDITIONIN INLET | EA | 1 |

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Figure B-4. Main fan

| (1) FIG NO. | (2) ITEM NO. | (3) SMR CODE | (4) NATIONAL STOCK NUMBER | (5) FSCM | (6) PART NUMBER | DESCRIPTION | (7) QTY IN U/M | (8) QTY IN UNIT |
|---------------------|--------------------|--------------------|------------------------------------|--------------|-----------------------|---|-------------------------|--------------------------|
| GROUP 0210 MAIN FAN | | | | | | | | |
| E5-19-6240 | | | | | | | | |
| B-4 1 | XAFZZ | | 81361 | E5-19-6241 | | HOUSING,FAN | EA 1 | |
| B-4 2 | PAFZZ | 5315-00-616-5526 | 96906 | MS35756-8 | | KEY,WOODRUFF | EA 1 | |
| B-4 3 | XAFZZ | | 81361 | C5-19-6247 | | ROTOR | EA 1 | |
| B-4 4 | PAFZZ | 4320-01-052-7999 | 81361 | B5-19-6081 | | DEFLECTOR,DIRT AND SHAFT | EA 1 | |
| B-4 5 | PAFZZ | 3110-00-144-8882 | 38443 | 201SFP | | BEARING,BALL,ANNULAR | EA 2 | |
| B-4 6 | PAFZZ | 5310-00-227-4882 | 92830 | F1240-008 | | WASHER,SPRING LOADING | EA 1 | |
| B-4 7 | PAFZZ | 5310-00-167-0835 | 88044 | AN960-416L | | WASHER,FLAT .265 IN ID, .500 IN OD, .032 IN THK | EA 12 | |
| B-4 8 | PAFZZ | 5305-00-477-2713 | 80205 | NAS1351-4-12 | | SCREW,CAP,SOCKET HEAD: 1/4-28UNF-3A,3/4 IN LG | EA 12 | |
| B-4 9 | XAFZZ | | 81361 | D5-19-6242 | | COVER,MOTOR | EA 1 | |
| B-4 10 | PAFZZ | 3110-01-057-4653 | 81361 | C5-19-6255 | | PLATE,RETAINING,BEARING | EA 1 | |
| B-4 11 | PAFZZ | 3120-01-053-5848 | 81361 | B5-19-6254 | | BUSHING,SLEEVE IMPELLER | EA 1 | |
| B-4 12 | PAFZZ | 5305-00-978-9369 | 96906 | MS16997-31 | | SCREW,CAP,SOCKET HEAD: NO 8-32UNC-3A,3/8 IN LG | EA 4 | |
| B-4 13 | PAFZZ | 5365-01-053-2593 | 81361 | B5-19-6030-1 | | SHIM LAMINATED | EA 1 | |
| B-4 14 | XAFZZ | | 81361 | D5-19-6252 | | IMPELLER,FAN | EA 1 | |
| B-4 15 | PAFZZ | 5310-00-167-0821 | 88044 | AN960-616 | | WASHER,FLAT .390 IN ID,.625 IN OD, .063 IN THK | EA 1 | |
| B-4 16 | PAFZZ | 5310-00-810-1786 | 96906 | MS21042-6 | | NUT,SELF-LOCKING,EXTENDED WASHER,HEXAGON: 3/8-24UNJF-3B | EA 1 | |
| B-4 17 | XAFZZ | | 81361 | E5-19-6251 | | COVER,IMPELLER | EA 1 | |
| B-4 18 | XAFZZ | | 96906 | MS3116P16-8P | | CONNECTOR,PLUG,ELECTRIC | EA 1 | |
| B-4 19 | PAFZZ | 9905-01-054-4263 | 81361 | C5-19-6258-1 | | PLATE,IDENTIFICATION: MAIN FAN,200 CFM | EA 1 | |

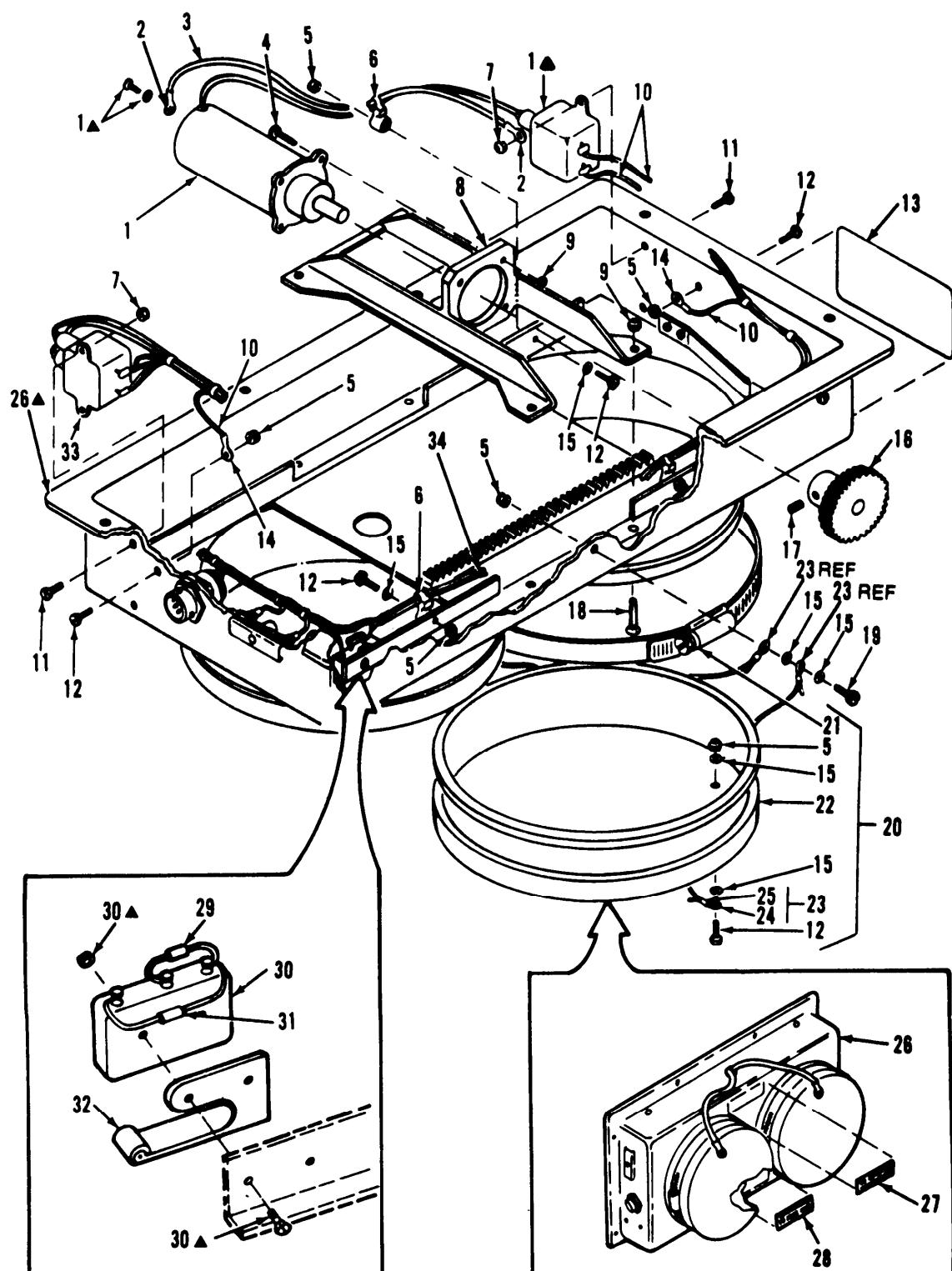


Figure B-5. Air flow valve

| TM3-4240-286-30&P | | | | | | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|-------------------------|--|------------------|
| (A) FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | QTY INC IN |
| | | | | | | USABLE ON CODE | U/M UNIT |
| GROUP 0220 AIRFLOW VALVE | | | | | | | |
| E9-19-6136 | | | | | | | |
| B-5 | 1 | PAFZZ | 6105-01-056-9045 | 25140 | 5A3128 | GEARCASE-MOTOR PLANETARY, GEAR REDUCED | EA 1 |
| B-5 | 2 | PAFZZ | 5940-00-113-9828 | 96906 | MS25036-148 | TERMINAL,LUG CRIMP STYLE, 22-18 AWG WIRE SIZE, NO. 4 STUD SIZE | EA 2 |
| B-5 | 3 | MFFZZ | | 81349 | M5086/1-20-9 | WIRE,ELECTRICAL MFD FROM 6145-00-578-7519 | FT V |
| B-5 | 4 | PAFZZ | 5305-00-582-5808 | 96906 | MS35265-31 | SCREW,MACHINE FIL HCAD, NO 6-32UNC-2A, 5/8 IN LG | EA 4 |
| B-5 | 5 | PAOZZ | 5310-00-811-3494 | 96906 | MS21044N08 | NUT,SELF-LOCKING,HEXAGON: NO. 8-32UNJC-3B | EA 3 |
| B-5 | 6 | PAFZZ | 5975-01-053-6294 | 09922 | TF-5H | STRAP,TIEDOWN,CABLE | EA 3 |
| B-5 | 7 | PAFZZ | 5310-00-088-0551 | 96906 | MS21044N04 | NUT,SELF-LOCKING,HEXAGON: NO 4-4OUNJC-3B | EA 8 |
| B-5 | 8 | XAFZZ | | 81361 | D5-19-6138 | MOUNT,MOTOR | EA 1 |
| B-5 | 9 | PAFZZ | 5310-00-081-8087 | 96906 | MS21044N06 | NUT,SELF-LOCKING,HEXAGON | EA 12 |
| B-5 | 10 | MFFZZ | | 81349 | M5086/1-22-9 | WIRE,ELECTRICAL MFD FROM 6145-00-578-7520 | FT V |
| B-5 | 11 | PAFZZ | 5305-00-242-1264 | 96906 | MS51849-13 | SCREW,MACHINE HEXAGON HEAD, NO 4-4OUNC-2A, .38 IN LG | EA 8 |
| B-5 | 12 | PAOZZ | 5305-00-115-9934 | 96906 | MS51849-55 | SCREW,MACHINE HEX HD, NO 8-32UNC-2A, 5/8 IN LG | EA 2 |
| B-5 | 13 | PAOZZ | 9905-01-065-9382 | 81361 | C5-19-6149 | PLATE, IDENTIFICATION: AIRFLOW VALVE | EA 1 |
| B-5 | 14 | PAFZZ | 5940-00-557-1629 | 96906 | MS25036-149 | TERMINAL,LUG CRIMP STYLE, 22-18 AWG WIRE SIZE, NO 8 STUD SIZE | EA 6 |
| B-5 | 15 | PAOZZ | 5310-00-765-3197 | 96906 | MS27183-41 | WASHER,FLAT .188 IN ID, .438 IN OD, .049 IN THK | EA 6 |
| B-5 | 16 | XAFZZ | | 81361 | C5-19-6144 | GEAR | EA 1 |
| B-5 | 17 | PAFZZ | 5305-00-058-9362 | 96906 | MS51977-19 | SETSCREW HEX SOCKET, NO 6-32UNC-3A, 3/16 IN LG | EA 1 |
| B-5 | 18 | PAFZZ | 5305-00-984-6221 | 96906 | MS35206-234 | SCREW,MACHINE PAN HD, NO. 6-32UNC-2A, 1 IN LG | EA 8 |
| B-5 | 19 | PAOZZ | 5305-00-157-5621 | 96906 | MS51849-56 | SCREW,MACHINE HEX HD, NO 8-32UNC-2A, 3/4 IN LG | EA 1 |
| B-5 | 20 | PAOOO | 5340-01-048-6327 | 81361 | C5-19-6145 | CAP, PROTECTIVE,DUST AND MOISTURE SEAL | EA 2 |
| B-5 | 21 | PAOZZ | 4730-00-908-6294 | 96906 | MS35842-16 | CLAMP,HOSE 4-1/8 TO 7 IN DIA RANGE | EA 2 |
| B-5 | 22 | XAOZZ | | 81361 | C5-19-6309 | CAP,RUBBER | EA 2 |
| B-5 | 23 | AOOOO | | 99862 | CL-2-FANDCL-2-C- 8.0 | CABLE | EA 2 |
| B-5 | 24 | MOOZZ | | 99862 | CL-2-C-8.0 | CABLE, NYLON: 8 IN LG, MFD FROM 4010-00-069-5180 | EA 2 |
| B-5 | 25 | PAOZZ | 4030-00-878-8693 | 99862 | CL2F | FERRULE,WIRE ROPE | EA 4 |
| B-5 | 26 | XAFZZ | | 81361 | E9-19-6137 | HOUSING,VALVE | EA 1 |
| B-5 | 27 | PAOZZ | 9905-01-051-0186 | 81361 | B5-19-6147 | PLATE,INSTRUCTION TO SHELTER | EA 1 |
| B-5 | 28 | PAOZZ | 9905-01-050-7556 | 81361 | B5-19-6148 | PLATE,INSTRUCTION TO PROT ENT | EA 1 |
| B-5 | 29 | PAFZZ | 5961-00-924-6981 | 81349 | JAN1N4245 | SEMICONDUCTOR DEVICE, DIODE | EA 2 |
| B-5 | 30 | PAFZZ | 5930-00-913-7960 | 81349 | MS25085-2 | SWITCH, SENSITIVE | EA 2 |
| B-5 | 31 | PAFZZ | 5910-00-114-0510 | 81349 | M39014/01-1581 | CAPACITOR, FIXED CERAMIC | EA 2 |
| B-5 | 32 | PAFZZ | 5930-00-296-9610 | 94135 | 12Z7903-178 | ADAPTER, SWITCH ACTU | EA 2 |
| B-5 | 33 | PAFZZ | 5915-01-075-7240 | 81361 | C5-19-6152 | FILTER, RADIO FREQUENCY INTERFERENCE | EA 1 |
| B-5 | 34 | MFFZZ | | 81349 | M7078-3-22-1 | CABLE,SPECIAL PURPOSE,ELECTRICAL: MFD FROM 6145-00-608-5484 | FT V |

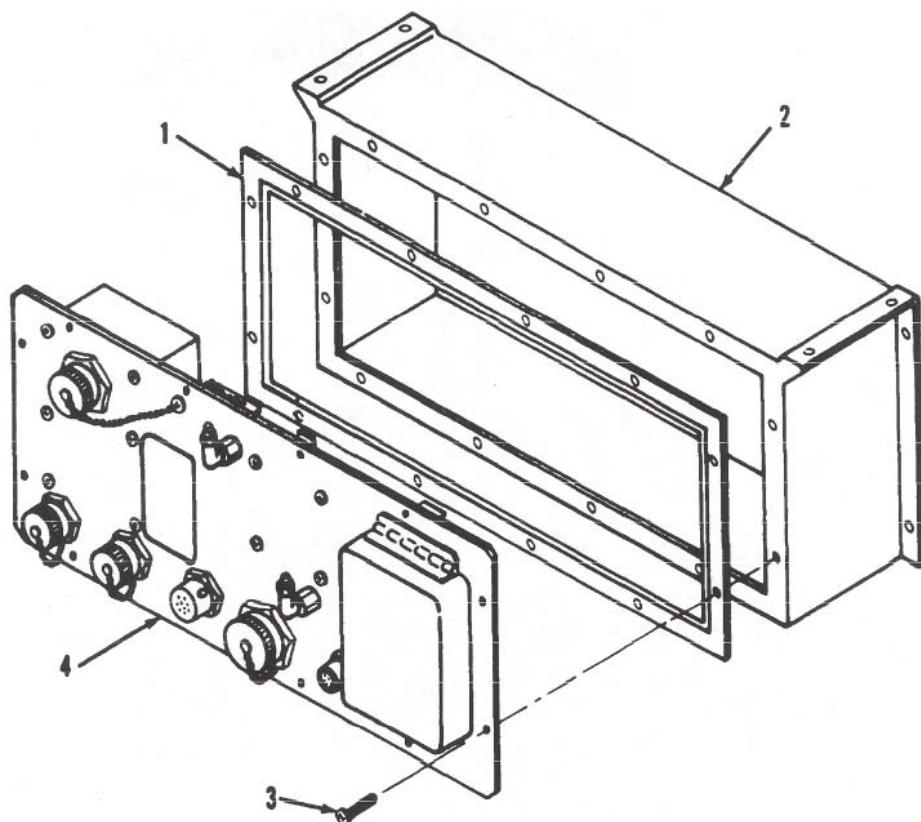
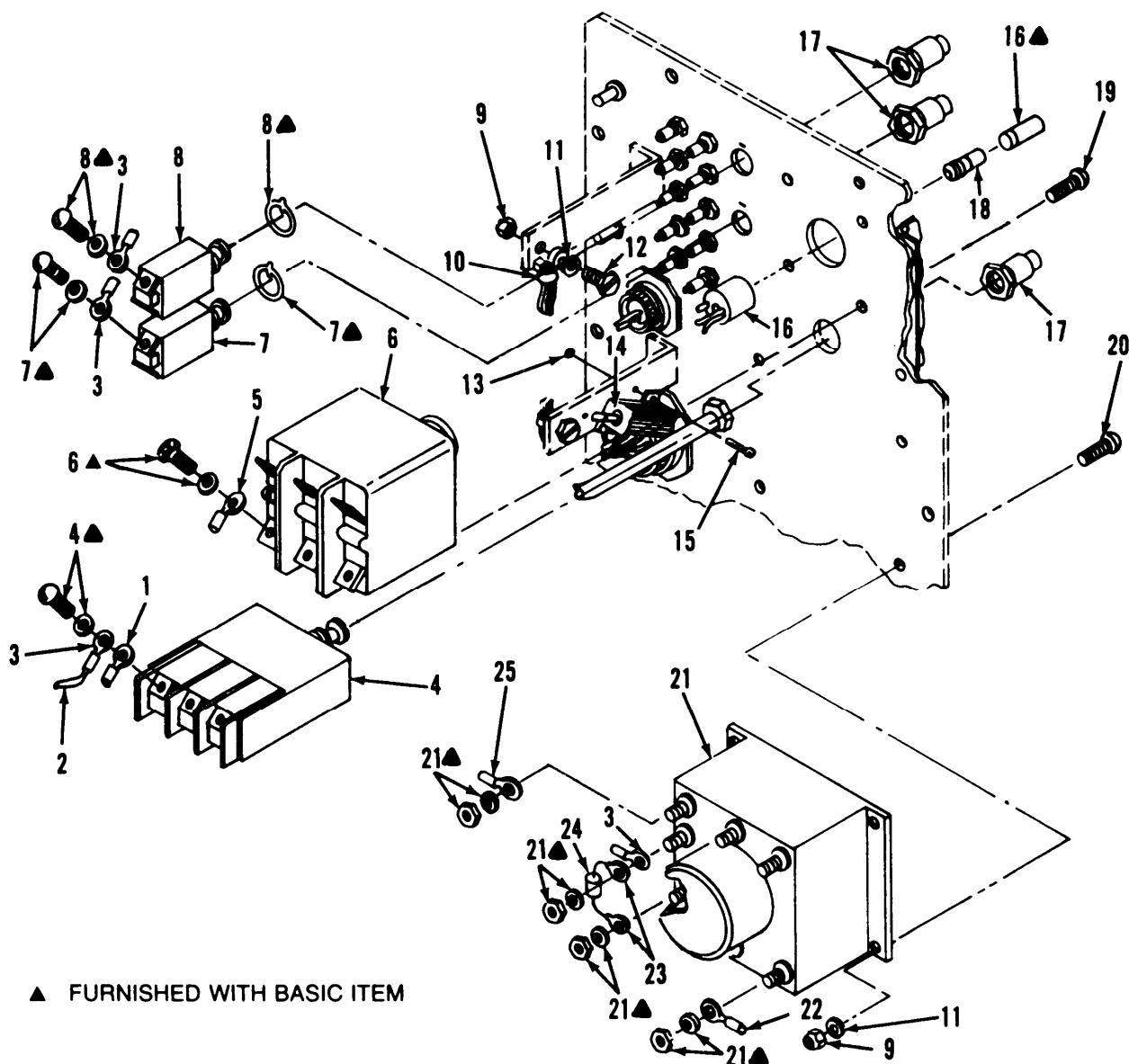


Figure B-6. Power distribution unit.

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| (1) ITEM NO | (2) SMR CODE | (3) NATIONAL STOCK NUMBER | (4) FSCM | (5) PART NUMBER | (6) DESCRIPTION | (7) U/M | (8) QTY INC IN UNIT |
|-------------------|--------------------|------------------------------------|-------------|-----------------------|---|------------|---------------------------------|
| | | | | | USABLE ON CODE | | |
| | | | | | GROUP 0230 POWER DISTRIBUTION UNIT E9-19-6387 | | |
| B-6 | 1 PAFZ | 5999-01-074-8880 | 8136 | D5-19-6392 | SHIELDING GASKET, POWER DISTRIBUTION UNIT..... | EA | 1 |
| B-6 | 2 XAFZ | | 81361 | E5-19-6390 | HOUSING | EA | 1 |
| B-6 | 3 PAFZ | 5305-01-031-5092 | 9690 | MS3213-33 | SCREW, MACHINE PAN HD, SELF-SEALING, NO. 10-32UNF-2A, 1/2 IN LG..... | EA | 12 |
| B-6 | 4 PAFFF | 4240-01-057-3474 | 8136 | E5-19-6391 | PANEL, POWER DISTRIBUTION UNIT | EA | 1 |

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Figure B-7. Power distribution panel (sheet 1 of 2)

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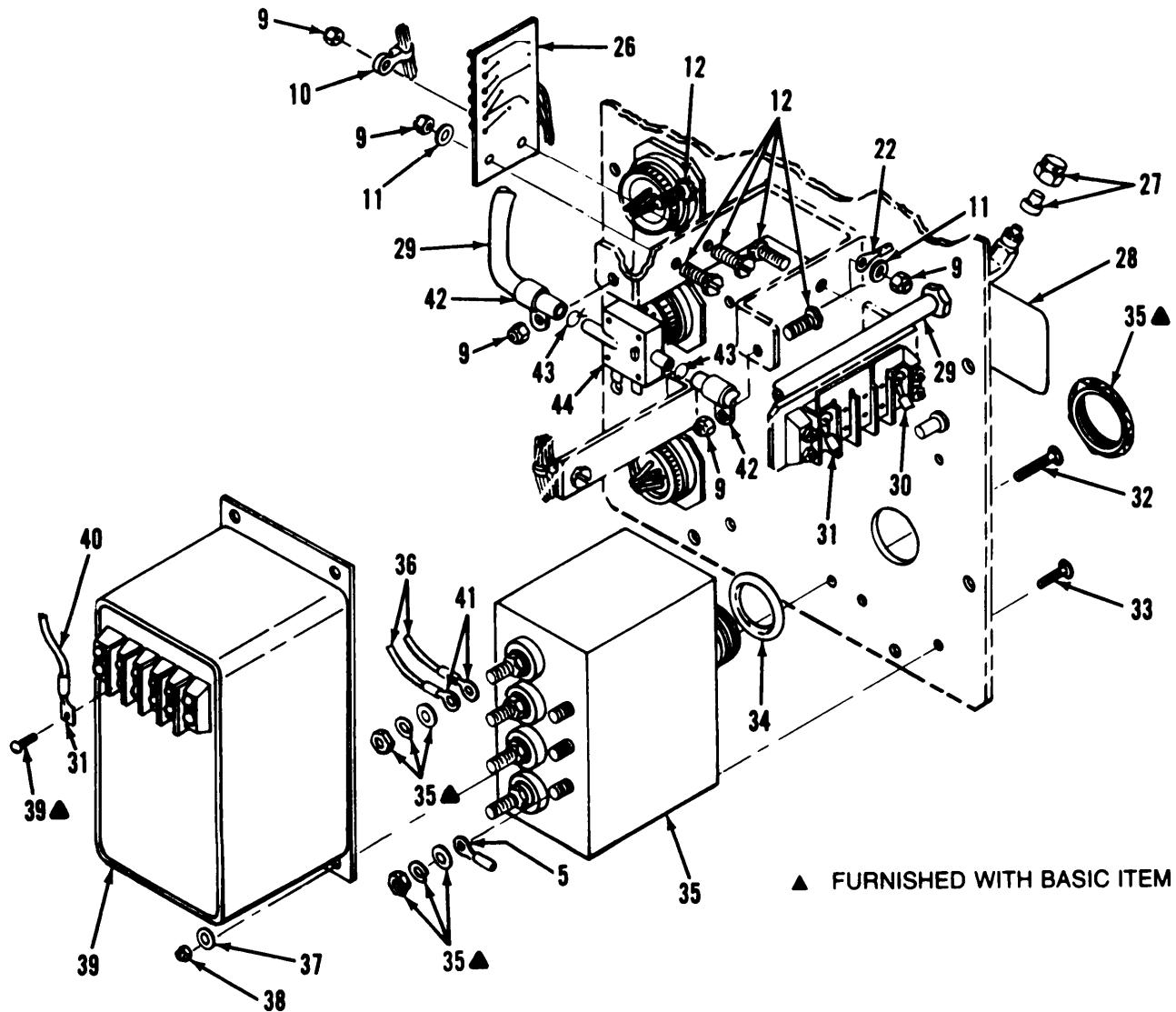
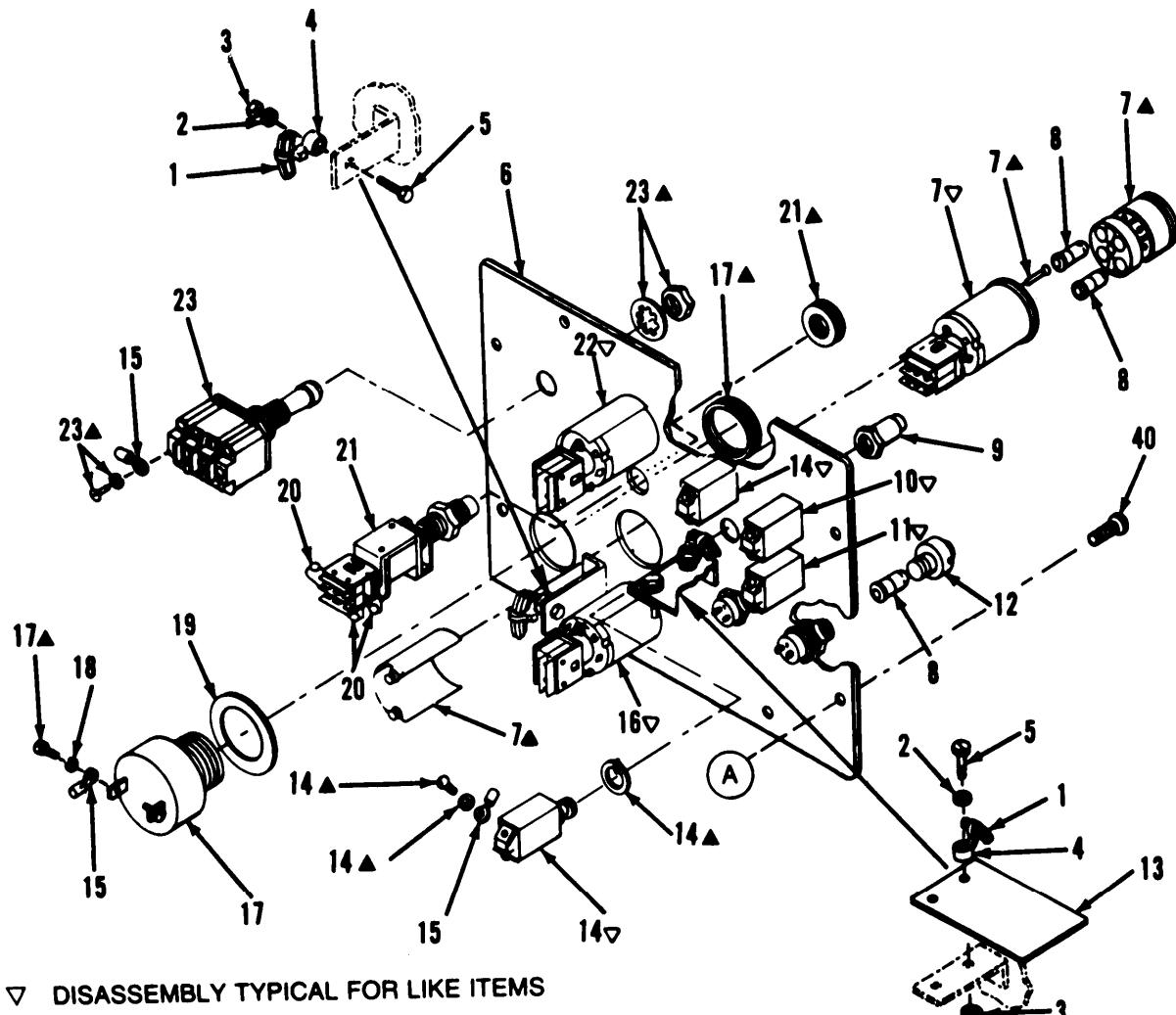


Figure B-7. Power distribution panel (sheet 2 of 2)

| (1) FIG NO. | (2) ITEM NO. | (3) SMR CODE | NATIONAL STOCK NUMBER | (4) FSCM | (5) PART NUMBER | (6) DESCRIPTION | (7) QTY IN U/M | (8) QTY INC UNIT |
|-------------------------------------|--------------------|--------------------|-----------------------------|---------------|-----------------------|---|-------------------------|---------------------------|
| GROUP 0231 POWER DISTRIBUTION PANEL | | | | | | | | |
| E5-19-6391 | | | | | | | | |
| B-7 1 | PAFZZ | 5940-00-113-8179 | 96906 | MS25036-107 | | TERMINAL,LUG CRIMP STYLE, 16-14 AWG WIRE SIZE, NO 6 STUD SIZE | EA 6 | |
| B-7 2 | MFFZZ | | 81349 | M5086-1/20-9 | | WIRE,ELECTRICAL MFD FROM 6145-00-578-7519 | FT V | |
| B-7 3 | PAFZZ | 5940-00-204-8966 | 96906 | MS25036-102 | | TERMINAL,LUG CRIMP STYLE,22-18 AWG WIRE SIZE,NO 6 STUD SIZE | EA 9 | |
| B-7 4 | PAFZZ | 5925-00-814-8428 | 18876 | 10231240 | | CIRCUIT BREAKER | EA 1 | |
| B-7 5 | PAFZZ | 5940-00-143-4774 | 96906 | MS25036-153 | | TERMINAL,LUG CRIMP STYLE, 16-14 AWG WIRE SIZE, NO 8 STUD SIZE | EA 13 | |
| B-7 6 | PAFZZ | 5925-01-067-5437 | 82647 | 6752-320-20 | | CIRCUIT BREAKER | EA 1 | |
| B-7 7 | PAFZZ | 5925-00-045-1704 | 82647 | 7274-12-1 | | CIRCUIT BREAKER | EA 1 | |
| B-7 8 | PAFZZ | 5925-00-768-2035 | 82647 | 7274-12-1-1-2 | | CIRCUIT BREAKER | EA 1 | |
| B-7 9 | PAFZZ | 5310-00-877-5797 | 96906 | MS21044N3 | | NUT,SELF-LOCKING,HEXAGON: NO 10-32UNJF-3B | EA 12 | |
| B-7 10 | PAFZZ | 5975-01-053-6294 | 09922 | TF-5H | | STRAP,TIEDOWN,CABLE | EA 4 | |
| B-7 11 | PAFZZ | 5310-00-809-8546 | 96906 | MS27183-8 | | WASHER,FLAT .219 IN ID, .438 IN OD, .049 IN THK | EA 9 | |
| B-7 12 | PAFZZ | 5305-00-179-8946 | 96906 | MS51849-66 | | SCREW,MACHINE HEX HD,NO. 10-32UNF-2A,3/4 IN LG | EA 8 | |
| B-7 13 | PAFZZ | 5310-00-088-0551 | 96906 | MS21044N04 | | NUT,SELF-LOCKING,HEXAGON: NO 4-4OUNJC-3B | EA 2 | |
| B-7 14 | PAFZZ | 5905-00-553-8100 | 81349 | RER70F1100R | | RESISTOR,FIXED,WIRE WOUND | EA 1 | |
| B-7 15 | PAFZZ | 5305-01-053-0958 | 96906 | MS51849-14 | | SCREW,MACHINE HEX HD,NO 4-4OUNC-2A, 1/2 IN LG | EA 2 | |
| B-7 16 | XBFZZ | | 07137 | PTL-A1(3-C7A) | | LIGHT,INDICATOR | EA 1 | |
| B-7 17 | PAFZZ | 5975-00-958-6451 | 82647 | 14500-1 | | BOOT,DUST AND MOISTURE SEAL | EA 3 | |
| B-7 18 | PAOZZ | 6240-00-892-4420 | 81349 | M15098/11-001 | | LAMP,GLOW | EA 1 | |
| B-7 19 | PAFZZ | 5305-01-053-0959 | 96906 | MS3213-14 | | SCREW,MACHINE PAN HD,SELF-SEALING,NO 6-32UNC-2A,7/16 IN LG | EA 4 | |
| B-7 20 | PAFZZ | 5305-00-148-1286 | 96906 | MS3213-36 | | SCREW,MACHINE PAN HD,SELF-SEALING,NO 10-32UNF-2A,3/4 IN LG | EA 4 | |
| B-7 21 | PAFZZ | 5945-00-201-9456 | 96906 | MS24143D1 | | RELAY,ELECTROMAGNETIC 25 AMP,3PST, N O | EA 1 | |
| B-7 22 | PAFZZ | 5940-00-143-4780 | 96906 | MS25036-108 | | TERMINAL,LUG CRIMP STYLE,16-14 AWG WIRE SIZE,NO 10 STUD SIZE | EA 10 | |
| B-7 23 | PAFZZ | 5940-00-681-8185 | 96906 | MS35430-4 | | TERMINAL,LUG SOLDER TYPE,14-20 AWG WIRE SIZE,NO 6 STUD SIZE | EA 2 | |
| B-7 24 | PAFZZ | 5961-00-139-9812 | 81349 | JAN1N5557 | | SEMICONDUCTOR DEVICE,DIODE | EA 1 | |
| B-7 25 | PAFZZ | 5940-00-143-4771 | 96906 | MS25036-103 | | TERMINAL,LUG CRIMP STYLE,22-18 AWG WIRE SIZE, NO 10 STUD SIZE | EA 1 | |
| B-7 26 | PAFZZ | 5999-01-048-9865 | 81361 | C5-19-6415 | | PRINTED CIRCUIT ASSEMBLY | EA 1 | |
| B-7 27 | PAOZZ | 4730-00-817-1891 | 30327 | 261P1-4 | | NUT,TUBE COUPLING 1/4 IN TUBE OD,3/8-24 THD SIZE, W/SLEEVE | EA 2 | |
| B-7 28 | PAOZZ | 9905-01-065-3065 | 81361 | C5-19-6316-6 | | PLATE,IDENTIFICATION: POWER DISTRIBUTION UNIT | EA 1 | |
| B-7 29 | MFFZZ | | 81361 | E5-19-6391-52 | | TUBING,NONMETALLIC: 3/16 IN NOM ID, GREEN,MFD FROM 9330-01-073-1011 | IN 14 | |
| B-7 30 | PAFZZ | 5940-00-825-3697 | 96906 | MS17143-11 | | TERMINAL,LUG CRIMP STYLE, 16-14 AWG WIRE SIZE,NO 5 STUD SIZE | EA 4 | |
| B-7 31 | PAFZZ | 5940-00-825-3699 | 96906 | MS17143-10 | | TERMINAL,LUG CRIMP STYLE,22-18 AWG WIRE SIZE,NO 5 STUD SIZE 1.8 | EA 16 | |

| TM3-4240-286-30&P | | | | | | (7) | (8) | |
|-------------------|--------------------|-------------|-----------------------------|----------------|----------------|--|------|---|
| (1) | (2) | (3) | (4) | (5) | (6) | QTY | | |
| FIG NO. | (A) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | DESCRIPTION | INC IN | | |
| | | | | | USABLE ON CODE | U/M | UNIT | |
| B-7 | 32 | PAFZZ | 5305-01-006-8953 | 96906 | MS3213-27 | SCREW,MACHINE PAN HD,SELF-SEALING,NO 8-32UNC-2A,5/8 IN LG | EA | 4 |
| B-7 | 33 | PAFZZ | 5305-01-053-0960 | 96906 | MS3213-24 | SCREW,MACHINE PAN HD,SELF-SEALING,NO 8-32UNC-2A,7/16 IN LG | EA | 4 |
| B-7 | 34 | PAFZZ | 5330-00-542-1329 | 96906 | MS28775-120 | PACKING,PREFORMED | EA | 1 |
| B-7 | 35 | PAFZZ | 5915-01-096-8853 | 81361 | D5-19-6353 | FILTER,RADIO FREQUENCY INTERFERENCE | EA | 1 |
| B-7 | 36 | MFFZZ | | 81349 | M5086/1-16-9 | WIRE,ELECTRICAL MFD FROM 6145-00-578-7517 | FT | V |
| B-7 | 37 | PAFZZ | 5310-00-809-8544 | 96906 | MS27183-7 | WASHER,FLAT .188 IN ID, .375 IN OD .049 IN THK | EA | 4 |
| B-7 | 38 | PAFZZ | 5310-00-811-3494 | 96906 | MS21044N08 | NUT,SELF-LOCKING, HEXAGON: NO 8-32UNJC-3B | EA | 4 |
| B-7 | 39 | PAFZZ | 5950-01-091-8626 | 81361 | D5-19-6397 | TRANSFORMER,POWER RECTIFIER MODULE, 400 HZ | EA | 1 |
| B-7 | 40 | MFFZZ | | 81349 | M5086/1-22-9 | WIRE,ELECTRICAL MFD FROM 6145-00-578-7520 | FT | V |
| B-7 | 41 | PAFZZ | 5940-00-557-1629 | 96906 | MS25036-149 | TERMINAL,LUG CRIMP STYLE, 22-18 AWG WIRE SIZE, NO 8 STUD SIZE | EA | 2 |
| B-7 | 42 | PAFZZ | 5340-00-989-9224 | 96906 | MS25281R6 | CLAMP,LOOP PLASTIC WIRE SUPPORT,RIBBED INNER DIA, 3/8 IN BUNDLE DIADIA | EA | 2 |
| B-7 | 43 | PAFZZ | 4730-00-116-2969 | 70494 | A5S | CLAMP,HOSE | EA | 2 |
| B-7 | 44 | PAFZZ | 5930-01-055-9249 | 81361 | B5-19-6261-1 | SWITCH,PRESSURE | EA | 1 |

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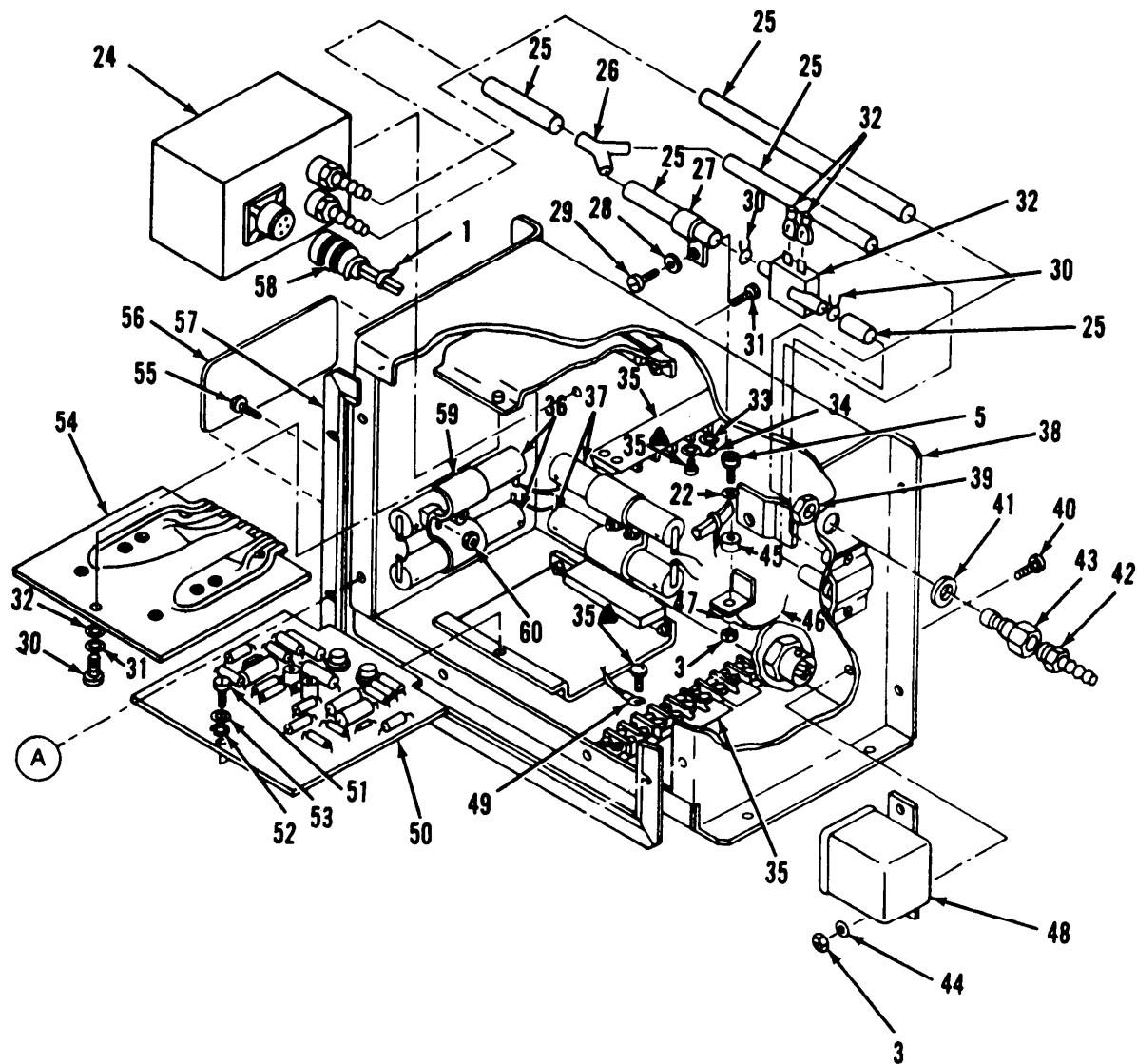
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▲ FURNISHED WITH BASIC ITEM

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Figure B-8. Compartment control module (sheet 1 of 2)

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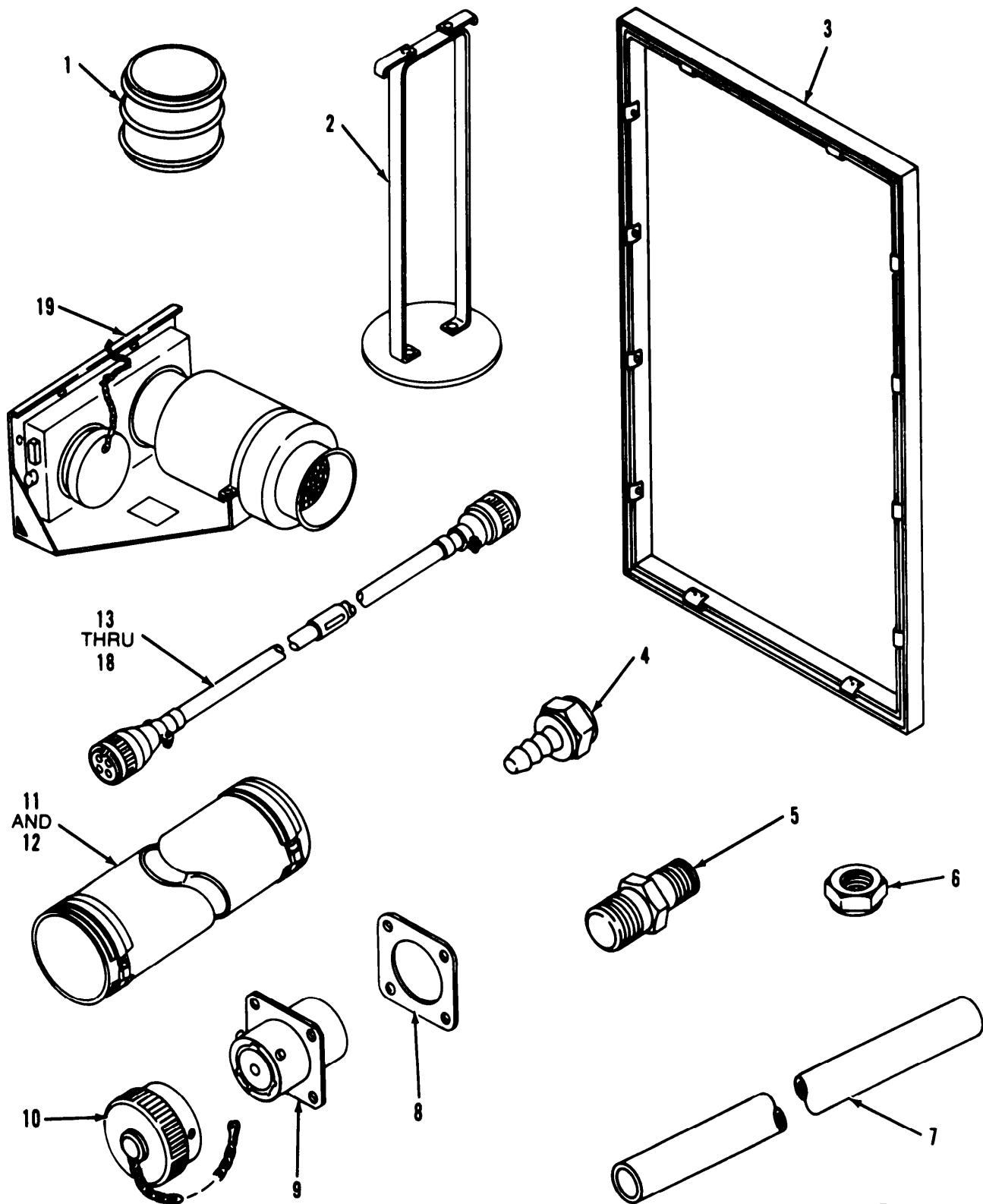
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Figure B-8. Compartment control module (sheet 2 of 2)

| TM3-4240-286-30&P | | | | | | | (7) | (8) |
|---------------------------------------|-------------|-------------|-----------------------------|----------------|----------------|---|-----------|-----|
| (1) | (2) | (3) | (4) | (5) | (6) | | QTY | |
| FIG NO. | ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | DESCRIPTION | | INC IN | |
| USABLE ON CODE | | | | | | | | |
| U/M UNIT | | | | | | | | |
| GROUP 0240 COMPARTMENT CONTROL MODULE | | | | | | | | |
| E5-19-6376 | | | | | | | | |
| B-8 | 1 | MFFZZ | | 81349 | M5086/1-22-9 | WIRE,ELECTRICAL MFD FROM 6145-00-578-7520 | FT | V |
| B-8 | 2 | PAFZZ | 5310-00-014-5850 | 96906 | MS27183-42 | WASHER,FLAT .219 IN ID, .500 IN OD,.049 IN THK | EA | 7 |
| B-8 | 3 | PAFZZ | 5310-00-877-5797 | 96906 | MS21044N3 | NUT,SELF-LOCKING,HEXAGON:NO 10-32UNJP-38 | EA | 7 |
| B-8 | 4 | PAFZZ | 5975-01-053-6294 | 09922 | TF-5H | STRAP,TIEDOWN,CABLE | EA | 4 |
| B-8 | 5 | PAFZZ | 5305-00-179-8946 | 96906 | MS51849-66 | SCREW,MACHINE HEX HD,NO 10-32UNF-2A,3/4 IN LG | EA | 4 |
| B-8 | 6 | XAFZZ | | 81361 | D5-19-6378 | PANEL,LETTERED | EA | 1 |
| B-8 | 7 | PAFZZ | 5930-01-052-7684 | 81361 | E5-19-6376-155 | SWITCH,PUSH HOUSING AND SWITCH: ENGRAVED "LOW PRESSURE" | EA | 1 |
| B-8 | 8 | PAOZZ | 6240-00-763-7744 | 81348 | W-L-00111/7 | LAMP,INCANDESCENT | EA | 8 |
| B-8 | 9 | PAFZZ | 5975-00-958-6451 | 82647 | 14500-1 | BOOT,DUST AND AND MOISTURE SEAL | EA | 4 |
| B-8 | 10 | PAFZZ | 5925-01-054-3453 | 82647 | 7274-34-3/4 | CIRCUIT BREAKER | EA | 1 |
| B-8 | 11 | PAFZZ | 5925-00-045-1704 | 82647 | 7274-12-1 | CIRCUIT BREAKER | EA | 1 |
| B-8 | 12 | PAFZZ | 6210-00-635-4700 | 76854 | VM911MS | LIGHT,INDICATOR | EA | 2 |
| B-8 | 13 | PAFZZ | 5999-01-048-9866 | 81361 | C5-19-6688 | PRINTED CIRCUIT ASSEMBLY,SWITCHING,AUXILIARY | EA | 1 |
| B-8 | 14 | PAFZZ | 5925-01-054-3452 | 82647 | 7274-34-1 | CIRCUIT BREAKER | EA | 2 |
| B-8 | 15 | PAFZZ | 5940-00-813-0698 | 96906 | MS25036-101 | TERMINAL,LUG CRIMP STYLE, 22-18 AWG WIRE SIZE NO 6 STUD SIZE | EA | 29 |
| B-8 | 16 | PAFZZ | 5930-01-050-4362 | 04426 | 44-580151AAAA | SWITCH,PUSH ENGRAVED "OCCUPIED" | EA | 1 |
| B-8 | 17 | PAFZZ | 6350-00-267-0442 | 37942 | SC628M | SIGNAL,ELECTRONIC, AUDIBLE | EA | 1 |
| B-8 | 18 | PAFZZ | 5310-00-579-0079 | 96906 | MS35333-37 | WASHER,LOCK INT TOOTH, NO 6 NOM SIZE | EA | 2 |
| B-8 | 19 | MFFZZ | | 81361 | B5-19-5710 | GASKET MFD FROM 9320-00-785-8171 | EA | 1 |
| B-8 | 20 | PAFZZ | 5961-00-924-6981 | 81349 | JAN1N4245 | SEMICONDUCTOR DEVICE,DIODE | EA | 3 |
| B-8 | 21 | PAFZZ | 5930-00-854-7864 | 18876 | 9745533 | SWITCH,PUSH | EA | 1 |
| B-8 | 22 | PAFZZ | 5930-01-108-2588 | 81361 | E5-19-6376-159 | SWITCH,PUSH HOUSING AND SWITCH: ENGRAVED "MASK" | EA | 1 |
| B-8 | 23 | PAFZZ | 5930-00-847-2599 | 96906 | MS24660-23D | SWITCH,TOGGLE | EA | 1 |
| B-8 | 24 | PAFZZ | 6685-01-056-5283 | 33107 | P92-1020 | TRANSMITTER,PRESSURE | EA | 1 |
| B-8 | 25 | MFFZZ | | 81361 | E5-19-6376-46 | TUBING,NONMETALLIC: 3/16 IN NOM ID, GREEN,MFD FROM 9330-01-073-1011 | IN | 18 |
| B-8 | 26 | PAFZZ | 6640-00-494-0527 | 05178 | 6152 | CONNECTOR,ELASTIC TUBING,BRANCHED: Y SHAPE, .25 IN OD | EA | 1 |
| B-8 | 27 | PAFZZ | 5340-00-989-9224 | 96906 | MS25281R6 | CLAMP,LOOP PLASTIC SIRE SUPPORT,RIBBED INNER DIA, 3/8 IN BUNDLE DIA | EA | 1 |
| B-8 | 28 | PAFZZ | 5310-00-765-3197 | 96906 | MS27183-41 | WASHER,FLAT .188 IN ID, .438 IN OD, .049 IN THK | EA | 1 |
| B-8 | 29 | PAFZZ | 5305-00-211-8193 | 96906 | MS51849-54 | SCREW,MACHINE HEX HD, NO 8-32UNC-2A,1/2 IN LG | EA | 1 |
| B-8 | 30 | PAFZZ | 4730-00-116-2969 | 70494 | A58 | CLAMP,HOSE | EA | 2 |
| B-8 | 31 | PAFZZ | 5305-01-054-2488 | 96906 | MS3213-11 | SCREW,MACHINE PAN HD,SELF-SEALING, NO 6-32UNC-2A,1/4 IN LG | EA | 2 |
| B-8 | 32 | PAFZZ | 5930-01-068-8812 | 81361 | 5-19-6261-2 | SWITCH,PRESSURE | EA | 1 |
| B-8 | 33 | PAFZZ | 5940-00-681-8185 | 96906 | MS35430-4 | TERMINAL,LUG SOLDER TYPE,14-20 AWG WIRE,NO 6 STUD SIZE | EA | 2 |
| B-8 | 34 | PAFZZ | 5961-00-139-9812 | 81349 | JAN1N5557 | SEMICONDUCTOR DEVICE,DIODE | EA | 1 |

| TM3-4240-286-30&P | | | | | | (7) | (8) |
|-------------------|-----------------|----------|-----------------------|-------------|----------------|---|-------|
| (1) | (2) | (3) | (4) | (5) | (6) | QTY | |
| FIG NO. | (B) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | DESCRIPTION | INC IN U/M UNIT | |
| | | | | | USABLE ON CODE | | |
| B-8 | 35 | XAFZZ | | 81349 | 37TB10 | TERMINAL BOARD | EA 2 |
| B-8 | 36 | PAFZZ | 6135-01-053-0564 | 09823 | CS1004 | BATTERY, DRY CELL TYPE 225SC | EA 2 |
| B-8 | 37 | PAFZZ | 6135-01-055-9627 | 09823 | CS1005 | BATTERY, DRY CELL TYPE 225SC | EA 2 |
| B-8 | 38 | XAFZZ | | 81361 | E5-19-6377 | HOUSING, COMPARTMENT CONTROL | EA 1 |
| B-8 | 39 | PAFZZ | 5310-00-199-1056 | 96906 | MS35650-3385 | NUT, PLAIN, HEXAGON 3/8-24UNF-2B | EA 1 |
| B-8 | 40 | PAFZZ | 5305-01-031-5092 | 96906 | MS3213-33 | SCREW, MACHINE PAN HD, SELF-SEALING, NO 10-32UNF-2A, 1/2 IN LG | EA 10 |
| B-8 | 41 | PAFZZ | 5330-00-954-6684 | 80205 | NAS1598-6Y | PACKING WITH RETAINER: 3/8 IN BOLT SIZE | EA 1 |
| B-8 | 42 | PAFZZ | 4730-01-053-5923 | 81361 | B5-19-6362 | ADAPTER, STRAIGHT, HOSE | EA 1 |
| B-8 | 43 | PAFZZ | 4730-01-017-5119 | 30327 | KF03-02PS | ADAPTER, STRAIGHT, PIPE TO HOSE | EA 1 |
| B-8 | 44 | PAFZZ | 5310-00-014-5850 | 96906 | MS27183-42 | WASHER, FLAT .219 IN ID, .500 IN. OD, .049 IN THK | EA 1 |
| B-8 | 45 | PAFZZ | 5975-01-053-6294 | 09922 | TF-5H | STRAP, TIEDOWN, CABLE | EA 1 |
| B-8 | 46 | MFFZZ | | 81349 | M50861-1-20-9 | WIRE, ELECTRICAL MFD FROM 6145-00-578-7519 | FT V |
| B-8 | 47 | PAFZZ | 5940-00-143-4771 | 96906 | MS25036-103 | TERMINAL, LUG CRIMP STYLE, 22-18 AWG WIRE SIZE, NO 10 STUD SIZE | EA 1 |
| B-8 | 48 | PAFZZ | 5945-01-059-7074 | 81361 | C5-19-6383 | FLASHER, THERMAL E11 | EA 1 |
| B-8 | 49 | PAFZZ | 5940-00-825-3699 | 96906 | MS17143-10 | TERMINAL, LUG CRIMP STYLE, 22-18 AWG WIRE SIZE, NO 5 STUD SIZE | EA 43 |
| B-8 | 50 | PAFZZ | 5999-01-048-9867 | 81361 | D5-19-6193-10 | PRINTED CIRCUIT BOARD, SWITCHING | EA 1 |
| B-8 | 51 | PAFZZ | 5305-00-227-1543 | 96906 | MS51849-33 | SCREW, MACHINE HEX HD, NO 6-32UNC-2A, .38 IN LG | EA 2 |
| B-8 | 52 | PAFZZ | 5310-00-045-4007 | 96906 | MS35338-41 | WASHER, LOCK SPRING, NO 6 NOM SIZE | EA 2 |
| B-8 | 53 | PAFZZ | 5310-00-983-8483 | 96906 | MS27183-5 | WASHER, FLAT .156 IN ID, .312 IN OD, .035 IN THK | EA 2 |
| B-8 | 54 | PAFZZ | 5999-01-050-4635 | 81361 | C5-19-6197 | PRINTED CIRCUIT BOARD: POWER | EA 1 |
| B-8 | 55 | PAFZZ | 5305-01-033-2636 | 96906 | MS3213-13 | SCREW, MACHINE PAN HD, SELF-SEALING, NO 6-32UNC-2A, 3/8 IN LG | EA 4 |
| B-8 | 56 | PAFZZ | 9905-01-052-3766 | 81361 | C5-19-6316-7 | PLATE, IDENTIFICATION: CONTROL MODULE COMPARTMENT | EA 1 |
| B-8 | 57 | PAFZZ | 5999-01-070-8434 | 81361 | C5-19-6382 | SHIELDING GASKET, RFI | EA 1 |
| B-8 | 58 | XBFZZ | 5935-00-715-2756 | 96906 | MS3126F10-68 | CONNECTOR, PLUG, ELECTRICAL | EA 1 |
| B-8 | 59 | PAFZZ | 6135-01-052-3744 | 81361 | B5-19-6659 | RETAINER, BATTERY | EA 2 |
| B-8 | 60 | PAFZZ | 5310-00-081-8087 | 96906 | MS21044N06 | NUT, SELF-LOCKING, HEXAGON: NO 6-32UNJC-3B | EA 4 |

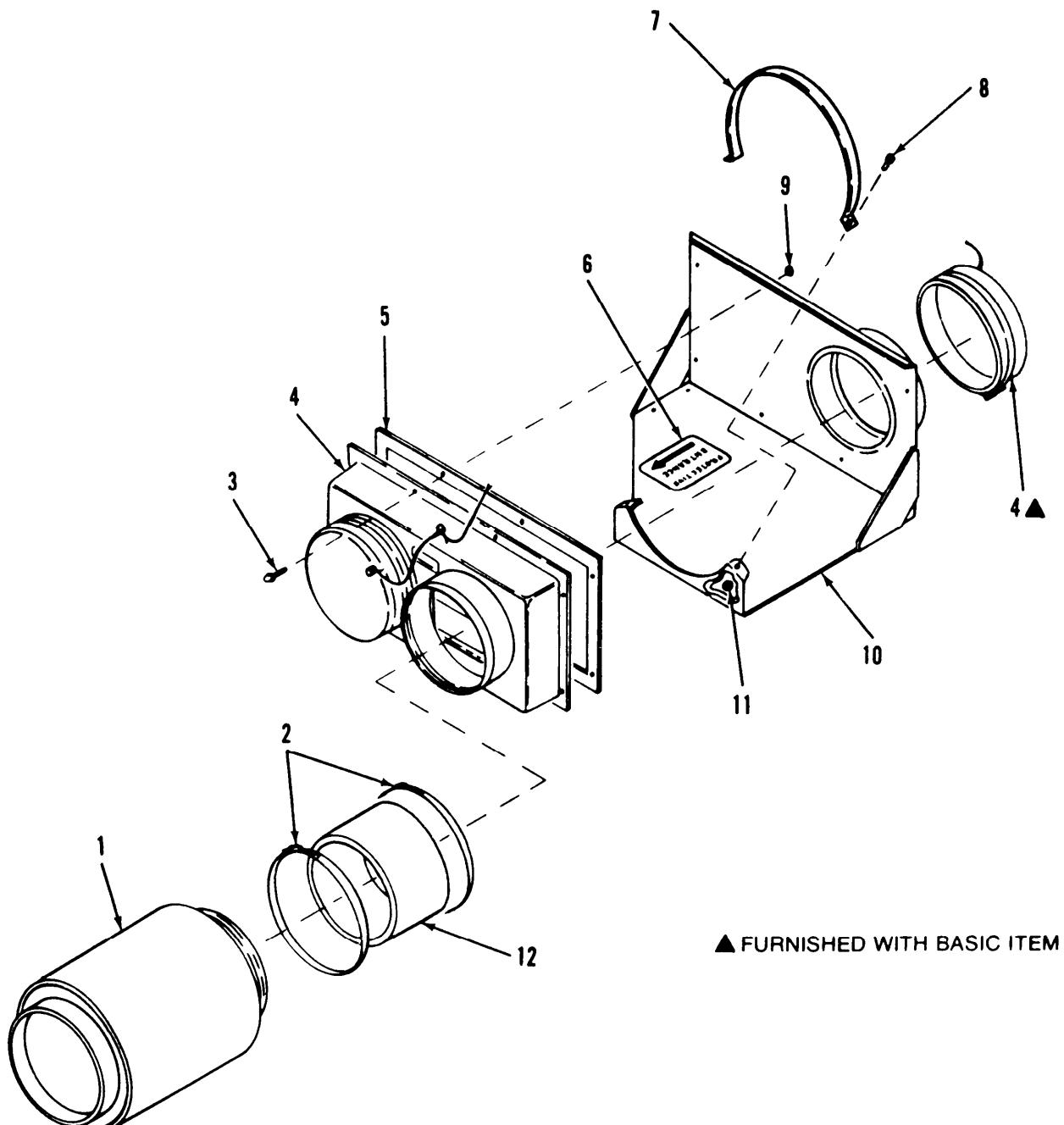
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Figure B-9. M263 installation kit

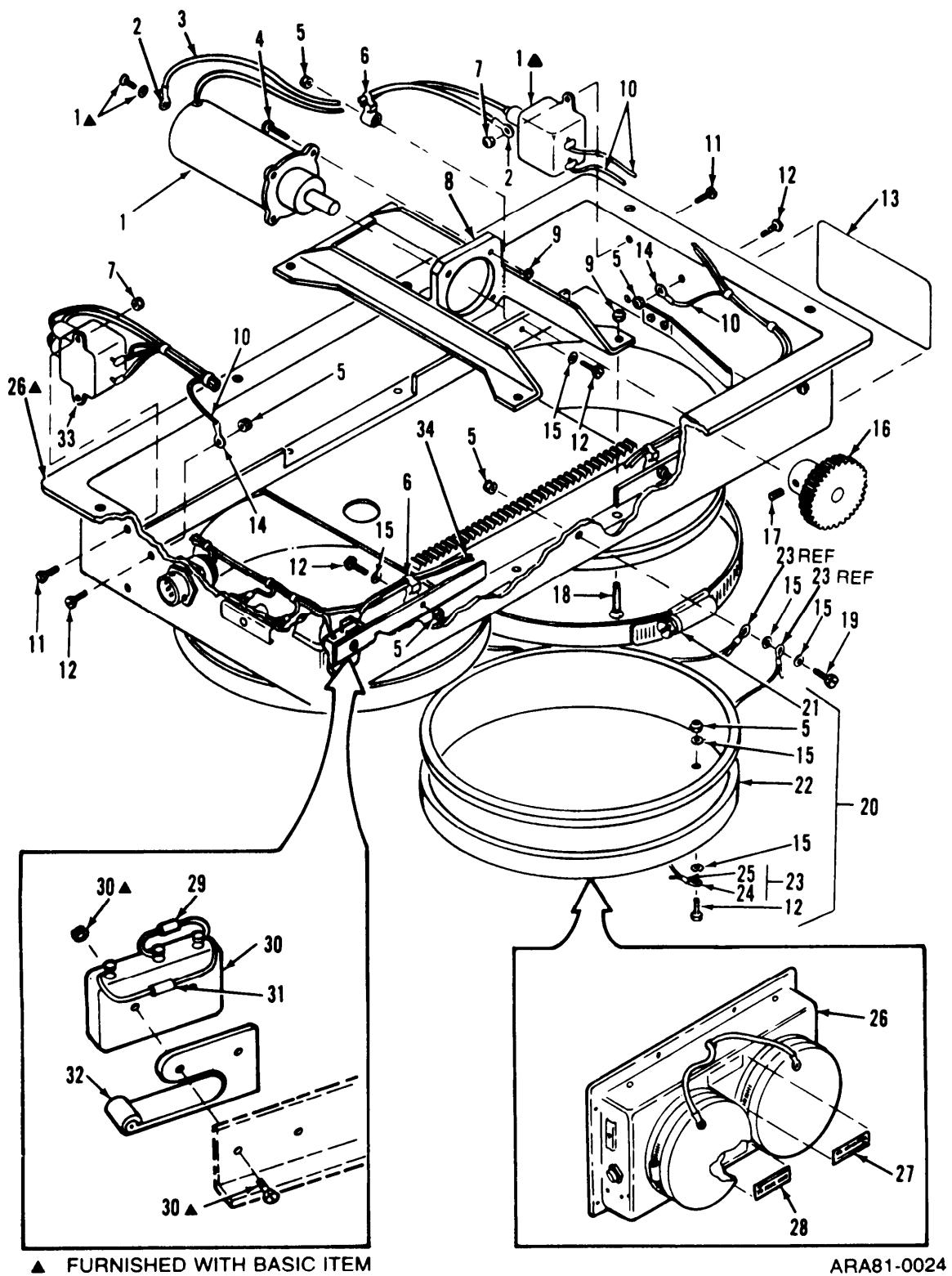
| TM3-4240-286-30&P | | | | | | (7) | (8) |
|----------------------------------|------------|------------------|-----------------------------|----------------|---|----------------|-----------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | DESCRIPTION | QTY |
| FIG NO | ITEM NO | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | USABLE ON CODE | INC IN U/M UNIT |
| GROUP 0300 M263 INSTALLATION KIT | | | | | | | |
| PL5-19-6705 | | | | | | | |
| B-9 1 | PAOZZ | 4730-01-049-0805 | 81361 | C5-19-6182 | COUPLING,AIR DUCT | EA | 5 |
| B-9 2 | PAOZZ | 4240-01-052-3783 | 81361 | C5-19-6180 | HOLDER, STORAGE, AIR DUCT | EA | 9 |
| B-9 3 | PAOZZ | 4240-01-061-7233 | 81361 | E5-19-5908 | FRAME, INTERFACE | EA | 1 |
| B-9 4 | PAOZZ | 4730-01-050-7540 | 30327 | KF03-04RV | ADAPTER, STRAIGHT, TUBE TO HOSE | EA | 1 |
| B-9 5 | PAOZZ | 4730-01-067-9232 | 81361 | C5-19-6654 | ADAPTER, PIPE TO 1/4 NPS, 7/16-20UNF-2A | EA | 1 |
| B-9 6 | PAOZZ | 5310-00-897-6081 | 96906 | MS35691-32 | NUT, PLAIN, HEXAGON JAM, 7/16-20UNF-2B | EA | 1 |
| B-9 7 | MOOZZ | | 81361 | PL5-19-6705-20 | HOSE, NONMETALLIC RUBBER, 3/16 IN NOM ID MFD FROM 4720-00-065-8682 | EA | 1 |
| B-9 8 | PAOZZ | 5330-01-054-0857 | 96906 | MS90484-20-1 | GASKET FLANGE MOUNT, ELECTRICAL CONNECTOR | EA | 1 |
| B-9 9 | PAOZZ | 5935-00-994-0294 | 96906 | MS3119E20-16 | ADAPTER, CONNECTOR RECEPTACLE, ELECTRICAL: THRU-BULKHEAD MTG. | EA | 1 |
| B-9 10 | PAOZZ | 5935-00-762-1392 | 96906 | MS3181-20C | COVER, ELECTRICAL | EA | 1 |
| B-9 11 | PAOOO | 4720-01-074-9220 | 30299 | 0120-0600-0109 | HOSE, AIR DUCT 6 IN ID, 72 IN LG O/A | EA | 8 |
| B-9 12 | PAOOO | 4720-01-063-4567 | 30299 | 0120-0600-0106 | HOSE, AIR DUCT 6 IN ID, 36 IN LG O/A | EA | 1 |
| B-9 13 | PAOZZ | 4240-01-069-3494 | 81361 | 5-19-6160-40 | CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 72 IN NOM, LG EXCLUDING TERMINATIONS | EA | 1 |
| B-9 14 | PAOZZ | 4240-01-068-2356 | 81361 | 5-19-6160-50 | CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 144 IN NOM LG EXCLUDING TERMINATIONS | EA | 1 |
| B-9 15 | PAOZZ | 4240-01-073-3439 | 81361 | 5-19-6162-10 | CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 240 IN NOM LG EXCLUDING TERMINATIONS | EA | 1 |
| B-9 14 | PAOZZ | 4240-01-067-9826 | 81361 | 5-19-6684 | CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 72 IN NOM LG EXCLUDING TERMINATIONS | EA | 1 |
| B-9 17 | PAOZZ | 4240-01-067-8376 | 81361 | 5-19-6170-10 | CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL: 54 IN NOM LG EXCLUDING TERMINATIONS | EA | 1 |
| B-9 18 | PAOZZ | 4240-01-068-2355 | 81361 | 5-19-6170-40 | CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL 76 IN NOM LG | EA | 1 |
| B-9 19 | XBOOO | | 81361 | D5-19-6628 | AIRFLOW VALVE AND SILENCER | EA | 1 |



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Figure B-10. Airflow valve and silencer

| TM3-4240-286-30&P | | | | | | (7) | (8) |
|---------------------------------------|------------|------------------|-----------------------------|---------------|---|----------------|-----------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | DESCRIPTION | QTY |
| FIG NO | ITEM NO | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | USABLE ON CODE | INC IN U/M UNIT |
| GROUP 0310 AIRFLOW VALVE AND SILENCER | | | | | | | |
| D5-19-6628 | | | | | | | |
| B-10 1 | PAOZZ | 2990-01-057-3475 | 81361 | C5-19-6627 | MUFFLER, INTAKE | EA | 1 |
| B-10 2 | PAOZZ | 4730-00-908-6294 | 96906 | MS35842-16 | CLAMP, HOSE 4-1/8 TO 7 IN DIA RANGE | EA | 2 |
| B-10 3 | PAOZZ | 5305-00-179-8946 | 96906 | MS51849-66 | SCREW, MACHINE HEX HD, NO 10-32UNF-2A, 3/4 IN LG | EA | 8 |
| B-10 4 | PAOPF | 4240-01-055-1493 | 81361 | E5-19-6136 | VALVE, AIRFLOW | EA | 1 |
| B-10 5 | PAOZZ | 5330-01-088-4442 | 81361 | 5-19-6348 | GASKET AIRFLOW VALVE | EA | 1 |
| B-10 6 | PAOZZ | 9905-01-051-0187 | 81361 | B5-19-6656 | PLATE, INSTRUCTION PROTECTIVE ENTRANCE | EA | 1 |
| B-10 7 | XBOZZ | | 81361 | C5-19-6626 | STRAP, RETAINING | EA | 1 |
| B-10 8 | PAOZZ | 5305-00-157-5621 | 96906 | MS51849-56 | SCREW, MACHINE HEX HD, NO 8-32UNC-2A, 3/4 IN LG | EA | 2 |
| B-10 9 | PAOZZ | 5310-00-877-5797 | 96906 | MS21044N3 | NUT, SELF-LOCKING, HEXAGON: NO 10-32UNJF-3B | EA | 8 |
| B-10 10 | XBOZZ | | 81361 | D5-19-6625 | BRACKET, MOUNTING | EA | 1 |
| B-10 11 | PAOZZ | 5310-00-811-3494 | 96906 | MS21044N08 | NUT, SELF-LOCKING, HEXAGON: NO 8-32UNJC-3B | EA | 2 |
| B-10 12 | MOOZZ | | 81361 | D5-19-6628-14 | HOSE, NONMETALLIC 3.50 IN LG, MFD FROM 4720-01-106-4602 | EA | 1 |



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Figure B-11, Airflow valve.

| TM3-4240-286-30&P | | | | | | | | | | | | | |
|--------------------------|------------|-------------|-----------------------------|----------------|---------------------|---|------------------|-----|--|--|--|--|--|
| (1) | (2) | (3) | (4) | (5) | (6) | DESCRIPTION | (7) | (8) | | | | | |
| FIG NO | ITEM NO | SMR CODE | NATIONAL STOCK NUMBER | PART NUMBER | FSCM | USABLE ON CODE | QTY INC IN | | | | | | |
| GROUP 0311 AIRFLOW VALVE | | | | | | | | | | | | | |
| E5-19-6136 | | | | | | | | | | | | | |
| B-11 | 1 | PAFZZ | 6105-01-056-9045 | 25140 | 5A3128 | GEARCASE-MOTOR PLANETARY, GEAR REDUCED | EA | 1 | | | | | |
| B-11 | 2 | PAFZZ | 5940-00-113-9828 | 96906 | MS25036-148 | TERMINAL,LUG CRIMP STYLE,22-18 AWG WIRE SIZE,NO 4 STUD SIZE | EA | 2 | | | | | |
| B-11 | 3 | MFFZZ | | 81349 | M5086/1-20-9 | WIRE,ELECTRICAL MFD FROM 6145-00-578-7519 | FT | V | | | | | |
| B-11 | 4 | PAFZZ | 5305-00-582-5808 | 96906 | MS35265-31 | SCREW,MACHINE FIL HD,NO 6-32UNC-2A,5/8IN LG | EA | 4 | | | | | |
| B-11 | 5 | PAOZZ | 5310-00-811-3494 | 96906 | MS21044N08 | NUT,SELF-LOCKING,HEXAGON: NO 8-32UNJC-3B | EA | 3 | | | | | |
| B-11 | 6 | PAFZZ | 5975-01-053-6294 | 09922 | TF-5H | STRAP,TIEDOWN,CABLE | EA | 3 | | | | | |
| B-11 | 7 | PAFZZ | 5310-00-088-0551 | 96906 | MS21044N04 | NUT,SELF-LOCKING,HEXAGON: NO 4-4OUNJC-3B | EA | 8 | | | | | |
| B-11 | 8 | XAFZZ | | 81361 | D5-19-6138 | MOUNT,MOTOR | EA | 1 | | | | | |
| B-11 | 9 | PAFZZ | 5310-00-081-8087 | 96906 | MS21044N06 | NUT,SELF-LOCKING,HEXAGON | EA | 12 | | | | | |
| B-11 | 10 | MFFZZ | | 81349 | M5086/1-22-9 | WIRE,ELECTRICAL MFD FROM 6145-00-578-7520 | FT | V | | | | | |
| B-11 | 11 | PAFZZ | 5305-00-242-1264 | 96906 | MS51849-13 | SCREW,MACHINE HEX HD,NO 4-40UNC-2A,.38 IN LG | EA | 8 | | | | | |
| B-11 | 12 | PAOZZ | 5305-00-115-9934 | 96906 | MS51849-55 | SCREW,MACHINE HEX HD,NO 8-32UNC-2A,5/8 IN LG | EA | 2 | | | | | |
| B-11 | 13 | PAOZZ | 9905-01-065-9382 | 81361 | C5-19-6149 | PLATE,IDENTIFICATION: AIRFLOW VALVE | EA | 1 | | | | | |
| B-11 | 14 | PAFZZ | 5940-00-557-1629 | 96906 | MS25036-149 | TERMINAL,LUG CRIMP STYLE,22-1B AWG WIRE SIZE,NO S STUD SIZE | EA | 6 | | | | | |
| B-11 | 15 | PAOZZ | 5310-00-765-3197 | 96906 | MS27183-41 | WASHER,FLAT .188 IN ID, .438 OD, .049 IN THK | EA | 6 | | | | | |
| B-11 | 16 | XAFZZ | | 81361 | C5-19-6144 | GEAR | EA | 1 | | | | | |
| B-11 | 17 | PAFZZ | 5305-00-058-9362 | 96906 | MS51977-19 | SETSCREW HEX SOCKET,NO 6-32UNC-3A,3/16 IN LG | EA | 1 | | | | | |
| B-11 | 18 | PAFZZ | 5305-00-984-6221 | 96906 | MS35206-234 | SCREW,MACHINE PAN HD,NO 6-32UNC-2A,1 IN LG | EA | 8 | | | | | |
| B-11 | 19 | PAOZZ | 5305-00-157-5621 | 96906 | MS51849-56 | SCREW,MACHINE HEX HD,NO 8-32UNC-2A,3/4 IN LG | EA | 1 | | | | | |
| B-11 | 20 | PAOOO | 5340-01-048-6327 | 81361 | C5-19-6145 | CAP,PROTECTIVE,DUST AND MOISTURE SEAL | EA | 2 | | | | | |
| B-11 | 21 | PAOZZ | 4730-00-908-6294 | 96906 | MS35842-16 | CLAMP,HOSE 4-1/8 TO 7 IN DIA RANGE | EA | 2 | | | | | |
| B-11 | 22 | XAOZZ | | 81361 | C5-19-6309 | CAP,RUBBER | EA | 2 | | | | | |
| B-11 | 23 | AOOOO | | 99862 | CL-2-FANDCL-2-C-8.0 | CABLE | EA | 2 | | | | | |
| B-11 | 24 | MOOZZ | | 99862 | CL-2-C-8.0 | CABLE,NYLON: 8 IN LG MFD FROM 4010-00-069-5180 | EA | 2 | | | | | |
| B-11 | 25 | PAOZZ | 4030-00-878-8693 | 99862 | CL2F | FERRULE,WIRE ROPE | EA | 4 | | | | | |
| B-11 | 26 | XAFZZ | | 81361 | E9-19-6137 | HOUSING,VALVE | EA | 1 | | | | | |
| B-11 | 27 | PAOZZ | 9905-01-051-0186 | 81361 | B5-19-6147 | PLATE,INSTRUCTION TO SHELTER | EA | 1 | | | | | |
| B-11 | 28 | PAOZZ | 9905-01-050-7556 | 81361 | B5-19-6148 | PLATE,INSTRUCTION TO PROT | EA | 1 | | | | | |
| B-11 | 29 | PAFZZ | 5961-00-924-6981 | 81349 | JAN1N4245 | SEMICONDUCTOR DEVICE,DIODE | EA | 2 | | | | | |
| B-11 | 30 | PAFZZ | 5930-00-913-7960 | 81349 | MS25085-2 | SWITCH,SENSITIVE | EA | 2 | | | | | |
| B-11 | 31 | PAFZZ | 5910-00-114-0510 | 81349 | M39014/01-1581 | CAPACITOR,FIXED,CERAMIC | EA | 2 | | | | | |
| B-11 | 32 | PAFZZ | 5930-00-296-9610 | 94135 | 12Z7903-178 | ADAPTER,SWITCH ACTU | EA | 2 | | | | | |
| B-11 | 33 | PAFZZ | 5915-01-075-7240 | 81361 | C5-19-6152 | FILTER,RADIO FREQUENCY INTERFERENCE | EA | 1 | | | | | |
| B-11 | 34 | MFFZZ | | 81349 | M7078-3-22-1 | CABLE,SPECIAL PURPOSE,ELECTRICAL: MFD FROM 6145-00-608-5484 | FT | V | | | | | |

| (1) FIG NO | (2) (b) ITEM NO | (3) SMR CODE | (4) NATIONAL STOCK NUMBER | (5) FSCM | (6) DESCRIPTION | (7) U/M | (8) QTY INC IN UNIT |
|--------------------------|--------------------------|--------------------|------------------------------------|--------------|---|------------|---------------------------------|
| GROUP 0500 BULK MATERIAL | | | | | | | |
| BULK 1 | PAOZZ | 4010-00-069-5180 | 99862 | CL2C | CABLE, NYLON COVERED | FT | 7 |
| BULK 2 | PAOZZ | 4720-00-065-8682 | 30327 | C403 | HOSE, NONMETALLIC RUBBER 3/16 IN NOM ID | FT | 13 |
| BULK 3 | PAOZZ | 4720-00-996-0381 | 30327 | 44PRED | TUBING, NONMETALLIC 1/4 IN OD, .040 IN WALL THK RED | FT | 5 |
| BULK 4 | PAFZZ | 6145-00-578-7517 | 81349 | M5086/1-16-9 | WIRE, ELECTRICAL 600 V, 16AWG, STRANDED SINGLE CONDUCTOR, WHITE | FT | 47 |
| BULK 5 | PAFZZ | 6145-00-578-7519 | 81349 | M5086/1-20-9 | WIRE, ELECTRICAL 600 V, 20 AWG, STRANDED SINGLE CONDUCTOR, WHITE | FT | 35 |
| BULK 6 | PAFZZ | 6145-00-578-7520 | 81349 | M5086/1-22-9 | WIRE, ELECTRICAL 600 V, 22 AWG, STRANDED SINGLE CONDUCTOR, WHITE | FT | 278 |
| BULK 7 | PAFZZ | 6145-00-608-5484 | 81349 | M7078-3-22-1 | CABLE, SPECIAL PURPOSE, ELECTRICAL: 600 V, 22 AWG, STRANDED SINGLECONDUCTOR, SHIE DED | FT | 5 |
| BULK 8 | PAFZZ | 9320-00-785-8171 | 81349 | MIL-R-3065 | RUBBER STRIP 1/16 IN NOM THK, 2FT X 2FT, GR SC4158F2G | SH | 1 |
| BULK 9 | PAOZZ | 4720-01-053-0316 | 30327 | 44PGREEN | TUBING, NONMETALLIC 1/4 IN OD, .040 IN WAL THK GREEN | FT | 5 |
| BULK 10 | PAFZZ | 9330-01-073-1011 | 81348 | ZZ-R-765 | TUBING NONMETALLIC: SILICONE RUBBER, GREEN, .188 IN ID, .375 IN OD, CL2B, OR 50 | FT | 4 |
| BULK 11 | PAOZZ | 4720-01-106-4602 | 81361 | B5-19-6716 | HOSE, NONMETALLIC 6.000 IN ID, 4.000 IN LG, 50 PSI BURST PRESSURE | EA | 1 |

SECTION III. SPECIAL TOOLS LIST

(NOT APPLICABLE)

SECTION IV NATIONAL STOCK NUMBER AND PART NUMBER INDEX

| STOCK NUMBER | FIG. NO. | ITEM NO. | STOCK NUMBER | FIG. NO. | ITEM NO. |
|------------------|-------------|-------------|---------------------|-------------|-------------|
| 5310-00-014-5850 | B-3 | 37 | 5330-00-248-3849 | B-1 | 9 |
| 5310-00-014-5850 | B-8 | 2 | 5330-00-250-0236 | B-1 | 8 |
| 5310-00-014-5850 | B-8 | 44 | 6350-00-267-0442 | B-8 | 17 |
| 5925-00-045-1704 | B-7 | 7 | 5305-00-269-3240 | B-3 | 28 |
| 5925-00-045-1704 | B-8 | 11 | 6220-00-283-9732 | B-2 | 30 |
| 5310-00-045-3296 | B-1 | 3 | 4720-00-288-9757 | BULK | |
| 5310-00-045-3299 | B-1 | 24 | 5930-00-296-9610 | B-11 | 32 |
| 5310-00-045-3299 | B-1 | 33 | 5930-00-296-9610 | B-5 | 32 |
| 5310-00-045-4007 | B-2 | 45 | 5310-00-435-8983 | B-1 | 31 |
| 5310-00-045-4007 | B-8 | 52 | 5305-00-477-2713 | B-4 | 8 |
| 5305-00-051-4075 | B-3 | 44 | 6640-00-494-0527 | B-8 | 26 |
| 5930-00-057-5848 | B-2 | 7 | 5330-00-542-1329 | B-7 | 34 |
| 5310-00-058-3599 | B-2 | 34 | 5905-00-553-8100 | B-7 | 14 |
| 5305-00-058-9362 | B-11 | 17 | 5940-00-557-1629 | B-11 | 14 |
| 5305-00-058-9362 | B-5 | 17 | 5940-00-557-1629 | B-2 | 16 |
| 4720-00-065-8682 | BULK | | 5940-00-557-1629 | B-5 | 14 |
| 5305-00-068-0513 | B-3 | 22 | 5940-00-557-1629 | B-7 | 41 |
| 4010-00-069-5180 | BULK | | 5310-00-559-0070 | B-2 | 15 |
| 5310-00-080-6004 | B-3 | 26 | 5310-00-575-5292 | B-2 | 9 |
| 5310-00-081-4219 | B-3 | 43 | 6145-00-578-7517 | BULK | |
| 5310-00-081-8087 | B-11 | 9 | 6145-00-578-7519 | BULK | |
| 5310-00-081-8087 | B-2 | 51 | 6145-00-578-7520 | BULK | |
| 5310-00-081-8087 | B-5 | 9 | 5310-00-579-0079 | B-8 | 18 |
| 5310-00-081-8087 | B-8 | 60 | 5305-00-582-5808 | B-11 | 4 |
| 5310-00-088-0551 | B-11 | 7 | 5305-00-582-5808 | B-5 | 4 |
| 5310-00-088-0551 | B-2 | 12 | 6145-00-608-5484 | BULK | |
| 5310-00-088-0551 | B-5 | 7 | 5940-00-615-6073 | B-2 | 11 |
| 5310-00-088-0551 | B-7 | 13 | 5315-00-616-5526 | B-4 | 2 |
| 5940-00-113-8179 | B-2 | 35 | 6210-00-635-4700 | B-2 | 17 |
| 5940-00-113-8179 | B-7 | 1 | 6210-00-635-4700 | B-8 | 12 |
| 5940-00-113-9828 | B-11 | 2 | 5940-00-681-8185 | B-7 | 23 |
| 5940-00-113-9828 | B-5 | 2 | 5940-00-681-8185 | B-8 | 33 |
| 5910-00-114-0510 | B-11 | 31 | 5935-00-715-2756 | B-8 | 58 |
| 5910-00-114-0510 | B-5 | 31 | 5935-00-762-1392 | B-9 | 10 |
| 5305-00-115-9406 | B-1 | 32 | 6240-00-763-7744 | B-2 | 22 |
| 5305-00-115-9934 | B-1 | 11 | 6240-00-763-7744 | B-8 | 8 |
| 5305-00-115-9934 | B-11 | 12 | 5310-00-765-3197 | B-1 | 12 |
| 5305-00-115-9934 | B-3 | 12 | 5310-00-765-3197 | B-11 | 15 |
| 5305-00-115-9934 | B-5 | 12 | 5310-00-765-3197 | B-3 | 13 |
| 4730-00-116-2969 | B-7 | 43 | 5310-00-765-3197 | B-5 | 15 |
| 4730-00-116-2969 | B-8 | 30 | 5310-00-765-3197 | B-8 | 28 |
| 5340-00-119-4705 | B-3 | 40 | 5925-00-00-768-2035 | B-7 | 8 |
| 5961-00-139-9812 | B-7 | 24 | 9320-00-785-8171 | BULK | |
| 5961-00-139-9812 | B-8 | 34 | 5310-00-809-4058 | B-3 | 21 |
| 5940-00-143-4771 | B-2 | 3 | 5310-00-809-8544 | B-7 | 37 |
| 5940-00-143-4771 | B-7 | 25 | 5310-00-809-8546 | B-7 | 11 |
| 5940-00-143-4771 | B-8 | 47 | 5310-00-810-1786 | B-4 | 16 |
| 5940-00-143-4774 | B-7 | 5 | 5310-00-811-3494 | B-1 | 18 |
| 5940-00-143-4780 | B-7 | 22 | 5310-00-811-3494 | B-10 | 11 |
| 5330-00-143-8571 | B-2 | 29 | 5310-00-811-3494 | B-11 | 5 |
| 3110-00-144-8882 | B-4 | 5 | 5310-00-811-3494 | B-3 | 19 |
| 5305-00-148-1286 | B-2 | 21 | 5310-00-811-3494 | B-5 | 5 |
| 5305-00-148-1286 | B-7 | 20 | 5310-00-811-3494 | B-7 | 38 |
| 6240-00-155-7784 | B-2 | 27 | 5940-00-813-0698 | B-8 | 15 |
| 6240-00-155-7932 | B-2 | 28 | 5925-00-814-8428 | B-7 | 4 |
| 5305-00-157-5621 | B-1 | 22 | 4730-00-817-1891 | B-3 | 41 |
| 5305-00-157-5621 | B-10 | 8 | 4730-00-817-1891 | B-7 | 27 |
| 5305-00-157-5621 | B-11 | 19 | 5355-00-821-5225 | B-2 | 20 |
| 5305-00-157-5621 | B-5 | 19 | 5305-00-824-7363 | B-3 | 38 |
| 5310-00-167-0821 | B-4 | 15 | 5940-00-825-3697 | B-7 | 30 |
| 5310-00-167-0835 | B-4 | 7 | 5940-00-825-3699 | 2 | 5 |
| 5305-00-179-8946 | B-1 | 2 | 5940-00-825-3699 | B-7 | 31 |
| 5305-00-179-8946 | B-10 | 3 | 5940-00-825-3699 | B-8 | 49 |
| 5305-00-179-8946 | B-7 | 12 | 5930-00-847-2599 | B-8 | 23 |
| 5305-00-179-8946 | B-8 | 5 | 5930-00-854-7864 | B-8 | 21 |
| 5305-00-180-4966 | B-3 | 39 | 5310-00-877-5797 | B-10 | 9 |
| 5310-00-187-2400 | B-3 | 27 | 5310-00-877-5797 | B-2 | 4 |
| 5310-00-199-1056 | B-2 | 19 | 5310-00-877-5797 | B-3 | 34 |
| 5310-00-199-1056 | B-8 | 39 | 5310-00-877-5797 | B-7 | 9 |
| 5945-00-201-9456 | B-7 | 21 | 5310-00-877-5797 | B-8 | 3 |
| 5940-00-204-8966 | B-2 | 8 | 4030-00-878-8693 | B-1 | 14 |
| 5940-00-204-8966 | B-7 | 3 | 4030-00-878-8693 | B-11 | 25 |
| 5305-00-211-8193 | B-1 | 21 | 4030-00-878-8693 | B-3 | 15 |
| 5305-00-211-8193 | B-8 | 29 | 4030-00-878-8693 | B-5 | 25 |
| 5305-00-227-1543 | B-2 | 44 | 5305-00-889-2999 | B-2 | 32 |
| 5305-00-227-1543 | B-8 | 51 | 6220-00-891-1491 | B-2 | 25 |
| 5310-00-227-4882 | B-4 | 6 | 6240-00-892-4420 | B-7 | 18 |
| 4240-00-237-0227 | B-3 | 1 | 5310-00-897-6081 | B-1 | 35 |
| 5305-00-242-1264 | B-11 | 11 | 5310-00-897-6081 | B-9 | 6 |
| 5305-00-242-1264 | B-5 | 11 | 4730-00-908-6294 | B-1 | 17 |

| FIGURE NO. | ITEM NO. | STOCK NUMBER | FIGURE NO. | ITEM NO. | | | |
|------------------|-------------|---------------|------------------|-------------|-------------|---------------|-------------|
| STOCK NUMBER | | | | | | | |
| 4730-00-908-6294 | B-10 | 2 | 5365-01-053-2593 | B-4 | 13 | | |
| 4730-00-908-6294 | B-113 | 21 | 9905-01-053-3006 | B-2 | 37 | | |
| 4730-00-908-6294 | B-3 | 18 | 3120-01-053-5848 | B-4 | 11 | | |
| 4730-00-908-6294 | B-5 | 21 | 4730-01-053-5923 | B-2 | 38 | | |
| 5935-00-912-9599 | B-1 | 29 | 4730-01-053-5923 | B-8 | 42 | | |
| 5930-00-913-7960 | B-11 | 30 | 5975-01-053-6294 | B-11 | 6 | | |
| 5930-00-913-7960 | B-5 | 30 | 5975-01-053-6294 | B-5 | 6 | | |
| 5961-00-924-6981 | B-11 | 29 | 5975-01-053-6294 | B-7 | 10 | | |
| 5961-00-924-6981 | B-5 | 29 | 5975-01-053-6294 | B-8 | 4 | | |
| 5961-00-924-6981 | B-8 | 20 | 5975-01-053-6294 | B-8 | 45 | | |
| 5330-00-928-0290 | B-2 | 41 | 5330-01-054-0857 | B-9 | 8 | | |
| 5310-00-928-9821 | B-1 | 23 | 5305-01-054-2488 | B-8 | 31 | | |
| 5310-00-928-9821 | B-1 | 37 | 5925-01-054-3452 | B-8 | 14 | | |
| 5310-00-934-9748 | B-2 | 10 | 5925-01-054-3453 | B-8 | 10 | | |
| 5330-00-954-6684 | B-2 | 18 | 9905-01-054-4263 | B-4 | 19 | | |
| 5330-00-954-6684 | B-2 | 39 | 5310-01-054-4643 | B-1 | 28 | | |
| 5330-00-954-6684 | B-8 | 41 | 4240-01-054-7020 | B-3 | 10 | | |
| 5975-00-958-6451 | B-7 | 17 | 4240-01-055-1493 | B-10 | 4 | | |
| 5975-00-958-6451 | B-8 | 9 | 4240-01-055-1493 | B-3 | 36 | | |
| 5305-00-978-9369 | B-4 | 12 | 5930-01-055-9249 | B-7 | 44 | | |
| 5410-00-981-8701 | B-1 | 27 | 6135-01-055-9627 | B-8 | 37 | | |
| 5310-00-983-8483 | B-2 | 46 | 6685-01-056-5283 | B-2 | 49 | | |
| 5310-00-983-8483 | B-8 | 53 | 6685-01-056-5283 | B-8 | 24 | | |
| 5305-00-984-4976 | B-2 | 33 | 6105-01-056-9045 | B-11 | 1 | | |
| 5305-00-984-6221 | B-11 | 18 | 6105-01-056-9045 | B-5 | 1 | | |
| 5305-00-984-6221 | B-5 | 18 | 4240-01-057-3378 | B-3 | 3 | | |
| 5340-00-989-9224 | B-7 | 42 | 4240-01-057-3474 | B-6 | 4 | | |
| 5340-00-989-9224 | B-8 | 27 | 2990-01-057-3475 | B-10 | 1 | | |
| 5935-00-990-5580 | B-1 | 30 | 3110-01-057-4653 | B-4 | 10 | | |
| 5935-00-994-0294 | B-9 | 9 | 4520-01-057-7010 | B-3 | 45 | | |
| 4720-00-996-0381 | BULK | | 5305-01-057-7206 | B-2 | 24 | | |
| 5305-01-006-8953 | B-7 | 32 | 5365-01-057-7379 | B-3 | 42 | | |
| 4730-01-017-5119 | B-1 | 7 | 4140-01-059-2095 | B-3 | 20 | | |
| 4730-01-017-5119 | B-8 | 43 | 5945-01-059-7074 | B-8 | 48 | | |
| 5305-01-031-5092 | B-6 | 3 | 9905-01-061-7139 | B-1 | 25 | | |
| 5305-01-031-5092 | B-8 | 40 | 4240-01-061-7233 | B-9 | 3 | | |
| 5305-01-033-2636 | B-8 | 55 | 4720-01-063-4567 | B-9 | 12 | | |
| 9905-01-048-2790 | B-1 | 26 | 9905-01-065-3065 | B-7 | 28 | | |
| 4240-01-048-2803 | B-1 | 4 | 9905-01-065-9382 | B-11 | 13 | | |
| 4240-01-048-2923 | B-1 | 1 | 9905-01-065-9382 | B-5 | 13 | | |
| 5340-01-048-6327 | B-1 | 10 | 9905-01-066-3084 | B-3 | 32 | | |
| 5340-01-048-6327 | B-11 | 20 | 4240-01-066-3266 | B-3 | 5 | | |
| 5340-01-048-6327 | B-3 | 11 | 5925-01-067-5437 | B-7 | 6 | | |
| 5340-01-048-6327 | B-5 | 20 | 4240-01-067-5605 | B-3 | 4 | | |
| 5999-01-048-9865 | B-7 | 26 | 4240-01-067-8376 | B-9 | 17 | | |
| 5999-01-048-9866 | B-8 | 13 | 9905-01-067-8634 | B-3 | 31 | | |
| 5999-01-048-9867 | B-8 | 50 | 4730-01-067-9232 | B-1 | 36 | | |
| 4240-01-049-0804 | B-1 | 34 | 4730-01-067-9232 | B-9 | 5 | | |
| 4730-01-049-0805 | B-9 | 1 | 5330-01-068-0515 | B-3 | 30 | | |
| 9905-01-049-1385 | B-1 | 20 | 4240-01-068-2355 | B-9 | 18 | | |
| 5930-01-050-4362 | B-8 | 16 | 4240-01-068-2356 | B-9 | 14 | | |
| 5999-01-050-4635 | B-2 | 43 | 9905-01-068-2368 | B-1 | 19 | | |
| 5999-01-050-4635 | B-8 | 54 | 4240-01-068-8645 | B-3 | 7 | | |
| 5999-01-050-4636 | B-2 | 47 | 5930-01-068-8812 | B-8 | 32 | | |
| 4730-01-050-7540 | B-1 | 5 | 4240-01-069-3494 | B-9 | 13 | | |
| 4730-01-050-7540 | B-9 | 4 | 5330-01-069-9824 | B-3 | 24 | | |
| 9905-01-050-7556 | B-11 | 28 | 4240-01-069-9826 | B-9 | 16 | | |
| 9905-01-050-7556 | B-5 | 28 | 5999-01-070-8434 | B-8 | 57 | | |
| 9905-01-050-7557 | B-3 | 33 | 9905-01-071-5711 | B-3 | 2 | | |
| 9905-01-051-0186 | B-11 | 27 | 9330-01-073-1011 | BULK | | | |
| 9905-01-051-0186 | B-5 | 27 | 4240-01-073-3439 | B-9 | 15 | | |
| 9905-01-051-0187 | B-10 | 6 | 5999-01-074-8880 | B-6 | 1 | | |
| 6135-01-052-3744 | B-8 | 59 | 4720-01-074-9220 | B-9 | 11 | | |
| 9905-01-052-3766 | B-8 | 56 | 5915-01-075-7240 | B-11 | 33 | | |
| 4240-01-052-3783 | B-9 | 2 | 5915-01-075-7240 | B-5 | 33 | | |
| 5930-01-052-7684 | B-2 | 23 | 5330-01-085-3267 | B-2 | 48 | | |
| 5930-01-052-7684 | B-8 | 7 | 5330-01-088-4442 | B-10 | 5 | | |
| 4320-01-052-7999 | B-4 | 4 | 5330-01-088-4442 | B-3 | 35 | | |
| 4720-01-053-0316 | BULK | | 5950-01-091-8626 | B-7 | 39 | | |
| 6135-01-053-0564 | B-8 | 36 | 5915-01-096-8853 | B-7 | 35 | | |
| 5305-01-053-0958 | B-7 | 15 | 4240-01-107-2433 | B-3 | 23 | | |
| 5305-01-053-0959 | B-7 | 19 | 5930-01-108-2588 | B-8 | 22 | | |
| 5305-01-053-0960 | B-7 | 33 | 6645-01-113-2525 | B-2 | 14 | | |
| FSCM | PART NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | FIGURE NO. | ITEM NO. |
| 88044 | AN960-416L | B-4 | 7 | 88044 | AN960PD616 | B-3 | 27 |
| 88044 | AN960-616 | B-4 | 15 | 70494 | A5S | B-7 | 43 |

| FSCM | PART NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | FIGURE NO. | ITEM NO. |
|-------|----------------------|------------|----------|-------|----------------|------------|----------|
| 70494 | A5S | B-8 | 30 | 81361 | D5-19-6262 | B-3 | 5 |
| 81361 | B5-19-5710 | B-8 | 19 | 81361 | D5-19-6353 | B-7 | 35 |
| 81361 | B5-19-6030-1 | B-4 | 13 | 81361 | D5-19-6368 | B-3 | 6 |
| 81361 | B5-19-6081 | B-4 | 4 | 81361 | D5-19-6378 | B-8 | 6 |
| 81361 | B5-19-6133 | B-3 | 33 | 81361 | D5-19-6392 | B-6 | 1 |
| 81361 | B5-19-6134 | B-3 | 31 | 81361 | D5-19-6397 | B-7 | 39 |
| 81361 | B5-19-6147 | B-11 | 27 | 81361 | D5-19-6401 | B-3 | 45 |
| 81361 | B5-19-6147 | B-5 | 27 | 81361 | D5-19-6625 | B-10 | 10 |
| 81361 | B5-19-6148 | B-11 | 28 | 81361 | D5-19-6628 | B-9 | 19 |
| 81361 | B5-19-6148 | B-5 | 28 | 81361 | D5-19-6628-14 | B-10 | 12 |
| 81361 | B5-19-6238 | B-1 | 26 | 81361 | E5-19-5908 | B-9 | 3 |
| 81361 | B5-19-6254 | B-4 | 11 | 81361 | E5-19-6120 | B-3 | 23 |
| 81361 | B5-19-6261-1 | B-7 | 44 | 81361 | E5-19-6128 | B-3 | 25 |
| 81361 | B5-19-6347 | B-3 | 42 | 81361 | E5-19-6136 | B-10 | 4 |
| 81361 | B5-19-6362 | B-2 | 38 | 81361 | E5-19-6136 | B-3 | 36 |
| 81361 | B5-19-6362 | B-8 | 42 | 81361 | E5-19-6201-20 | B-1 | 1 |
| 81361 | B5-19-6656 | B-10 | 6 | 81361 | E5-19-6240 | B-3 | 20 |
| 81361 | B5-19-6659 | B-8 | 59 | 81361 | E5-19-6241 | B-4 | 1 |
| 99862 | CL-2-C-8 .0 | B-11 | 24 | 81361 | E5-19-6251 | B-4 | 17 |
| 99862 | CL-2-C-8 .0 | B-1 | 15 | 81361 | E5-19-6314-20 | B-3 | 10 |
| 99862 | CL-2-C-8 .0 | B-3 | 16 | 81361 | E5-19-6357 | B-1 | 4 |
| 99862 | CL-2-C-8 .0 | B-5 | 24 | 81361 | E5-19-6357-47 | B-2 | 50 |
| 99862 | CL-2-FANDCL-2-C-8 .0 | B-11 | 23 | 81361 | E5-19-6358 | B-2 | 40 |
| 99862 | CL-2-FANDCL-2-C-8 .0 | B-1 | 13 | 81361 | E5-19-6360 | B-2 | 1 |
| 99862 | CL-2-FANDCL-2-C-8 .0 | B-3 | 14 | 81361 | E5-19-6376 | B-3 | 3 |
| 99862 | CL-2-FANDCL-2-C-8 .0 | B-5 | 23 | 81361 | E5-19-6376-155 | B-2 | 23 |
| 99862 | CL2C | BULK | | 81361 | E5-19-6376-155 | B-8 | 7 |
| 99862 | CL2F | B-11 | 25 | 81361 | E5-19-6376-159 | B-8 | 22 |
| 99862 | CL2F | B-1 | 14 | 81361 | E5-19-6376-46 | B-8 | 25 |
| 99862 | CL2F | B-3 | 15 | 81361 | E5-19-6377 | B-8 | 38 |
| 99862 | CL2F | B-5 | 25 | 81361 | E5-19-6387 | B-3 | 7 |
| 9823 | CS1004 | B-8 | 36 | 81361 | E5-19-6390 | B-6 | 2 |
| 9823 | CS1005 | B-8 | 37 | 81361 | E5-19-6391 | B-6 | 4 |
| 30327 | C403 | B-1 | 6 | 81361 | E5-19-6391-52 | B-7 | 29 |
| 30327 | C403 | BULK | | 81361 | E5-19-6402 | B-3 | 1 |
| 81361 | C5-19-5676 | B-2 | 36 | 81361 | E5-19-6402-7 | B-3 | 9 |
| 81361 | C5-19-5687-1 | B-3 | 30 | 81361 | E5-19-6402-8 | B-3 | 8 |
| 81361 | C5-19-5687-2 | B-3 | 24 | 81361 | E9-19-6137 | B-11 | 26 |
| 81361 | C5-19-6144 | B-11 | 16 | 81361 | E9-19-6137 | B-5 | 26 |
| 81361 | C5-19-6144 | B-5 | 16 | 92830 | F1240-008 | B-4 | 6 |
| 81361 | C5-19-6145 | B-11 | 20 | 81349 | JAN1N4245 | B-11 | 29 |
| 81361 | C5-19-6145 | B-1 | 10 | 81349 | JAN1N4245 | B-5 | 29 |
| 81361 | C5-19-6145 | B-3 | 11 | 81349 | JAN1N4245 | B-8 | 20 |
| 81361 | C5-19-6145 | B-5 | 20 | 81349 | JAN1N5557 | B-7 | 24 |
| 81361 | C5-19-6149 | B-11 | 13 | 81349 | JAN1N5557 | B-8 | 34 |
| 81361 | C5-19-6149 | B-5 | 13 | 30327 | KF03-02PS | B-1 | 7 |
| 81361 | C5-19-6152 | B-11 | 33 | 30327 | KF03-02PS | B-8 | 43 |
| 81361 | C5-19-6152 | B-5 | 33 | 30327 | KF03-04RV | B-1 | 5 |
| 81361 | C5-19-6175 | B-1 | 20 | 30327 | KF03-04RV | B-9 | 4 |
| 81361 | C5-19-6180 | B-9 | 2 | 79919 | K35B1 | B-2 | 20 |
| 81361 | C5-19-6182 | B-9 | 1 | 81349 | MIL-R-3065 | BULK | |
| 81361 | C5-19-6197 | B-2 | 43 | 96906 | MS16997-31 | B-4 | 12 |
| 81361 | C5-19-6197 | B-8 | 54 | 96906 | MS17143-10 | B-2 | 5 |
| 81361 | C5-19-6236 | B-1 | 34 | 96906 | MS17143-10 | B-7 | 31 |
| 81361 | C5-19-6247 | B-4 | 3 | 96906 | MS17143-10 | B-8 | 49 |
| 81361 | C5-19-6255 | B-4 | 10 | 96906 | MS17143-11 | B-7 | 30 |
| 81361 | C5-19-6258-1 | B-4 | 19 | 96906 | MS21042-6 | B-4 | 16 |
| 81361 | C5-19-6309 | B-11 | 22 | 96906 | MS21044N04 | B-11 | 7 |
| 81361 | C5-19-6309 | B-1 | 16 | 96906 | MS21044N04 | B-2 | 12 |
| 81361 | C5-19-6309 | B-3 | 17 | 96906 | MS21044N04 | B-5 | 7 |
| 81361 | C5-19-6309 | B-5 | 22 | 96906 | MS21044N04 | B-7 | 13 |
| 81361 | C5-19-6316-10 | B-1 | 25 | 96906 | MS21044N06 | B-11 | 9 |
| 81361 | C5-19-6316-4 | B-2 | 37 | 96906 | MS21044N06 | B-2 | 51 |
| 81361 | C5-19-6316-6 | B-7 | 28 | 96906 | MS21044N06 | B-5 | 9 |
| 81361 | C5-19-6316-7 | B-8 | 56 | 96906 | MS21044N06 | B-8 | 60 |
| 81361 | C5-19-6382 | B-8 | 57 | 96906 | MS21044N08 | B-10 | 11 |
| 81361 | C5-19-6383 | B-8 | 48 | 96906 | MS21044N08 | B-11 | 5 |
| 81361 | C5-19-6415 | B-7 | 26 | 96906 | MS21044N08 | B-1 | 18 |
| 81361 | C5-19-6626 | B-10 | 7 | 96906 | MS21044N08 | B-3 | 19 |
| 81361 | C5-19-6627 | B-10 | 1 | 96906 | MS21044N08 | B-5 | 5 |
| 81361 | C5-19-6654 | B-1 | 36 | 96906 | MS21044N08 | B-7 | 38 |
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| 81361 | D5-19-6138 | B-5 | 8 | 96906 | MS21044N3 | B-7 | 9 |
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| FSCM | PART NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | FIGURE NO. | ITEM NO. |
|-------|--------------|------------|----------|-------|-----------------|------------|----------|
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| 96906 | MS25036-101 | B-8 | 15 | 96906 | MS35649-244 | B-2 | 10 |
| 96906 | MS25036-102 | B-2 | 8 | 96906 | MS35650-3385 | B-2 | 19 |
| 96906 | MS25036-102 | B-7 | 3 | 96906 | MS35650-3385 | B-8 | 39 |
| 96906 | MS25036-103 | B-2 | 3 | 96906 | MS35691-32 | B-1 | 35 |
| 96906 | MS25036-103 | B-7 | 25 | 96906 | MS35691-32 | B-9 | 6 |
| 96906 | MS25036-103 | B-8 | 47 | 96906 | MS35756-8 | B-4 | 2 |
| 96906 | MS25036-107 | B-2 | 35 | 96906 | MS35842-16 | B-10 | 2 |
| 96906 | MS25036-107 | B-7 | 1 | 96906 | MS35842-16 | B-11 | 21 |
| 96906 | MS25036-108 | B-7 | 22 | 96906 | MS35842-16 | B-1 | 17 |
| 96906 | MS25036-148 | B-11 | 2 | 96906 | MS35842-16 | B-3 | 18 |
| 96906 | MS25036-148 | B-5 | 2 | 96906 | MS35842-16 | B-5 | 21 |
| 96906 | MS25036-149 | B-11 | 14 | 96906 | MS51849-13 | B-11 | 11 |
| 96906 | MS25036-149 | B-2 | 16 | 96906 | MS51849-13 | B-5 | 11 |
| 96906 | MS25036-149 | B-5 | 14 | 96906 | MS51849-14 | B-7 | 15 |
| 96906 | MS25036-149 | B-7 | 41 | 96906 | MS51849-33 | B-2 | 44 |
| 96906 | MS25036-152 | B-2 | 11 | 96906 | MS51849-33 | B-8 | 51 |
| 96906 | MS25036-153 | B-7 | 5 | 96906 | MS51849-53 | B-1 | 32 |
| 81349 | MS25085-2 | B-11 | 30 | 96906 | MS51849-54 | B-1 | 21 |
| 81349 | MS25085-2 | B-5 | 30 | 96906 | MS51849-54 | B-8 | 29 |
| 96906 | MS25235R311 | B-2 | 28 | 96906 | MS51849-55 | B-11 | 12 |
| 96906 | MS25281R6 | B-7 | 42 | 96906 | MS51849-55 | B-1 | 11 |
| 96906 | MS25281R6 | B-8 | 27 | 96906 | MS51849-55 | B-3 | 12 |
| 96906 | MS25358-3 | B-2 | 26 | 96906 | MS51849-55 | B-5 | 12 |
| 96906 | MS25358-4 | B-2 | 30 | 96906 | MS51849-56 | B-10 | 8 |
| 96906 | MS25358-5 | B-2 | 31 | 96906 | MS51849-56 | B-11 | 19 |
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| 96906 | MS25358-7 | B-2 | 25 | 96906 | MS51849-56 | B-5 | 19 |
| 96906 | MS27183-10 | B-3 | 21 | 96906 | MS51849-64 | B-3 | 39 |
| 96906 | MS27183-12 | B-3 | 43 | 96906 | MS51849-66 | B-10 | 3 |
| 96906 | MS27183-14 | B-3 | 26 | 96906 | MS51849-66 | B-1 | 2 |
| 96906 | MS27183-41 | B-11 | 15 | 96906 | MS51849-66 | B-7 | 12 |
| 96906 | MS27183-41 | B-1 | 12 | 96906 | MS51849-66 | B-8 | 5 |
| 96906 | MS27183-41 | B-3 | 13 | 96906 | MS51977-19 | B-11 | 17 |
| 96906 | MS27183-41 | B-5 | 15 | 96906 | MS51977-19 | B-5 | 17 |
| 96906 | MS27183-41 | B-8 | 28 | 96906 | MS521301B225360 | BULK | |
| 96906 | MS27183-42 | B-3 | 37 | | MS90484-20-1 | B-9 | 8 |
| 96906 | MS27183-42 | B-8 | 2 | 96906 | MS90727-33 | B-3 | 44 |
| 96906 | MS27183-42 | B-8 | 44 | 96906 | MS90727-6 | B-3 | 22 |
| 96906 | MS27183-5 | B-2 | 46 | 96906 | MS90727-64 | B-3 | 28 |
| 96906 | MS27183-5 | B-8 | 53 | 96906 | MS9352-05 | B-3 | 40 |
| 96906 | MS27183-7 | B-7 | 37 | 81349 | M15098/11-001 | B-7 | 18 |
| 96906 | MS27183-8 | B-7 | 11 | 81349 | M39014/01-1581 | B-11 | 31 |
| 96906 | MS28775-120 | B-7 | 34 | 81349 | M39014/01-1581 | B-5 | 31 |
| 96906 | MS29513-019 | B-1 | 9 | 81349 | M5086/1-16-9 | B-2 | 6 |
| 96906 | MS29513-024 | B-1 | 8 | 81349 | M5086/1-16-9 | B-7 | 36 |
| 96906 | MS3116P16-8P | B-4 | 18 | 81349 | M5086/1-16-9 | BULK | |
| 96906 | MS3119E20-16 | B-9 | 9 | 81349 | M5086/1-20-9 | B-11 | 3 |
| 96906 | MS3126F10-6S | B-8 | 58 | 81349 | M5086/1-20-9 | B-2 | 2 |
| 96906 | MS3181-10N | B-1 | 29 | 81349 | M5086/1-20-9 | B-5 | 3 |
| 96906 | MS3181-14N | B-1 | 30 | 81349 | M5086/1-20-9 | B-7 | 2 |
| 96906 | MS3181-20C | B-9 | 10 | 81349 | M5086/1-20-9 | B-8 | 46 |
| 96906 | MS3186-34 | B-1 | 28 | 81349 | M5086/1-20-9 | BULK | |
| 96906 | MS3186-43 | B-1 | 31 | 81349 | M5086/1-22-9 | B-11 | 10 |
| 96906 | MS3213-11 | B-8 | 31 | 81349 | M5086/1-22-9 | B-2 | 13 |
| 96906 | MS3213-13 | B-8 | 55 | 81349 | M5086/1-22-9 | B-5 | 10 |
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| 96906 | MS3213-24 | B-7 | 33 | 81349 | M5086/1-22-9 | B-8 | 1 |
| 96906 | MS3213-27 | B-7 | 32 | 81349 | M5086/1-22-9 | BULK | |
| 96906 | MS3213-33 | B-6 | 3 | 81349 | M7078-3-22-1 | B-11 | 34 |
| 96906 | MS3213-33 | B-8 | 40 | 81349 | M7078-3-22-1 | B-5 | 34 |
| 96906 | MS3213-36 | B-2 | 21 | 81349 | M7078-3-22-1 | BULK | |
| 96906 | MS3213-36 | B-7 | 20 | 80205 | NAS1096-3-12 | B-3 | 38 |
| 96906 | MS3213-5 | B-2 | 24 | 80205 | NAS1351-4-12 | B-4 | 8 |
| 96906 | MS3213-5 | B-2 | 24 | 80205 | NAS1351-4-12 | B-4 | 8 |
| 96906 | MS35206-217 | B-2 | 32 | 80205 | NAS1598-06Y | B-2 | 41 |
| 96906 | MS35206-219 | B-2 | 33 | 80205 | NAS1598-6Y | B-2 | 18 |
| 96906 | MS35206-234 | B-11 | 18 | 80205 | NAS1598-6Y | B-2 | 39 |
| 96906 | MS35206-234 | B-5 | 18 | 80205 | NAS1598-6Y | B-8 | 41 |
| 96906 | MS35265-31 | B-11 | 4 | 81361 | PL5-19-6705-20 | B-9 | 7 |
| 96906 | MS35265-31 | B-5 | 4 | 87137 | PTL-A1(3-C7A) | B-7 | 16 |
| 96906 | MS35333-37 | B-8 | 18 | 33107 | P92-1020 | B-2 | 49 |
| 96906 | MS35333-38 | B-2 | 15 | 33107 | P92-1020 | B-8 | 24 |
| 96906 | MS35335-57 | B-2 | 34 | 81349 | RER70F1100R | B-7 | 14 |
| 96906 | MS35338-41 | B-2 | 45 | 37942 | SC628M | B-8 | 17 |
| 96906 | MS35338-41 | B-8 | 52 | 9922 | TF-5H | B-11 | 6 |
| 96906 | MS35338-42 | B-1 | 24 | 9922 | TF-5H | B-5 | 6 |
| 96906 | MS35338-42 | B-1 | 33 | 9922 | TF-SH | B-7 | 10 |
| 96906 | MS35338-43 | B-1 | 3 | 9922 | TF-5H | B-8 | 45 |
| 96906 | MS35430-4 | B-7 | 23 | 76854 | VM911MB | B-2 | 17 |
| 96906 | MS35430-4 | B-8 | 33 | 76854 | VM911M8 | B-8 | 12 |

| FSCM | PART NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | FIGURE NO. | ITEM NO. |
|-------|----------------|---------------|-------------|-------|---------------|---------------|-------------|
| 81348 | W-L-00111/7 | B-2 | 22 | 81361 | 5-19-6170-40 | B-9 | 18 |
| 81348 | W-L-00111/7 | B-8 | 8 | 81361 | 5-19-6261-2 | B-8 | 32 |
| 81348 | ZZ-R-765 | BULK | | 81361 | 5-19-6316-9 | B-3 | 2 |
| 30299 | 0120-0600-0106 | B-9 | 12 | 81361 | 5-19-6348 | B-10 | 5 |
| 30299 | 0120-0600-0109 | B-9 | 11 | 81361 | 5-19-6348 | B-3 | 35 |
| 18876 | 10231240 | B-7 | 4 | 81361 | 5-19-6361 | B-2 | 48 |
| 94135 | 12Z7903-178 | B-11 | 32 | 81361 | 5-19-6657 | B-1 | 19 |
| 94135 | 12Z7903-178 | B-5 | 32 | 81361 | 5-19-6684 | B-9 | 16 |
| 82647 | 14500-1 | B-7 | 17 | 81361 | 5-19-6718 | B-3 | 4 |
| 82647 | 14500-1 | B-8 | 9 | 25140 | 5A3128 | B-11 | 1 |
| 38443 | 201SFP | B-4 | 5 | 25140 | 5A3128 | B-5 | 1 |
| 30327 | 261P1-4 | B-3 | 41 | 12909 | 500881 | B-2 | 42 |
| 30327 | 261P1-4 | B-7 | 27 | 5178 | 6152 | B-8 | 26 |
| 83330 | 2660 | B-2 | 9 | 82647 | 6752-320-20 | B-7 | 6 |
| 81349 | 37TB10 | B-8 | 35 | 79919 | 71015 | B-2 | 14 |
| 4426 | 44-580151AAAA | B-8 | 16 | 82647 | 7274-12-1 | B-7 | 7 |
| 30327 | 44PGREEN | BULK | | 82647 | 7274-12-1 | B-8 | 11 |
| 30327 | 44PRED | BULK | | 82647 | 7274-12-1-1-2 | B-7 | 8 |
| 81361 | 5-19-6135 | B-3 | 32 | 82647 | 7274-34-1 | B-8 | 14 |
| 81361 | 5-19-6160-40 | B-9 | 13 | 82647 | 7274-34-3/4 | B-8 | 10 |
| 81361 | 5-19-6160-50 | B-9 | 14 | | 8173 | B-1 | 27 |
| 81361 | 5-19-6162-10 | B-9 | 15 | | 9745533 | B-8 | 21 |
| 81361 | 5-19-6170-10 | B-9 | 17 | | | | |

APPENDIX C
EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

C-1. SCOPE. This appendix lists expendable supplies and materials you will need to operate and maintain the collective protection equipment. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

C-2. EXPLANATION OF COLUMNS.

a. *Column 1, Item Number.* This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., "Use dry-cleaning solvent, item 4, app C").

b. *Column 2, Level.* This column identifies the lowest level of maintenance that requires the listed item.

- O - Organizational Maintenance
- F - Direct Support Maintenance

c. *Column 3, National Stock Number.* This is the National stock number assigned to the item; use it to request or requisition the item.

d. *Column 4, Description.* Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Federal Supply Code for Manufacturer (FSCM) in parentheses followed by the part number.

e. *Column 5, Unit of Measure (U/M).* Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in., pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II. EXPENDABLE SUPPLIES AND MATERIALS LIST

| (1) ITEM NUMBER | (2) LEVEL | (3) NATIONAL STOCK NUMBER | (4) DESCRIPTION | (5) U/M |
|-----------------------|--------------|------------------------------------|--|------------|
| 1 | O | 8040-00-165-8614 | ADHESIVE, BONDING VULCANIZED: (81348) MMM-A-121 1 qt can | QT |
| 2 | O | 7920-00-543-7728 | BRUSH, ACID SWABBING: bristle (81348) HB643 | EA |
| 3 | O | 8010-01-055-2319 | COATING, ALIPHATIC POLYURETHANE: two part kit, 1 gal pigment and polyester, 1 qt catalyst (81349) MIL-C-46168 | KT |
| 4 | O | 6850-00-281-1985 | DRY CLEANING SOLVENT: 1 gal can (81348) P-D-680 | GL |
| 5 | F | 9150-00-944-8953 | GREASE, AIRCRAFT, GENERAL PURPOSE: wide temperature range (81349) MIL-G-81322 1 lb can | CN |

| (1) | (2) | (3) | (4) | (5) |
|----------------|-------|-----------------------------|--|-----|
| Item Number | Level | National Stock Number | Description | U/M |
| 6 | F | 5970-00-812-2969 | INSULATION SLEEVING:BLACK, MF 100,1/8 X 1 FT LG (06090) | FT |
| 7 | O | 8010-00-142-9279 | PRIMER COATING: 1 QT, TWO PART KIT, CLASS 2 (81349)MIL-P-23377 | KT |
| 8 | O | 7920-00-205-1711 | RAG,WIPING: COTTON DESIGNED FOR GENERAL PURPOSE USE (81348) DDD-R-30 5- LB BALE | EA |
| 9 | F | 8030-00-889-3535 | TAPE,ANTISEIZING: 1/2 IN WIDE, 260 IN LG (81349)MIL-T-27730 | EA |
| 10 | O | 7510-00-663-3738 | TAPE: OLIVE DRAB,3 WIDE TYPE 3,CLASS 1 (80244)PPP-T-60 ROLL | EA |

APPENDIX D
ILLUSTRATED LIST OF MANUFACTURED ITEMS

D-1. INTRODUCTION.

a. This appendix includes complete instruction for making items authorized to be manufactured or fabricated at direct support maintenance level.

b. All bulk materials needed for manufacture of an item are listed by National Stock Number in a tabular list on the illustration.

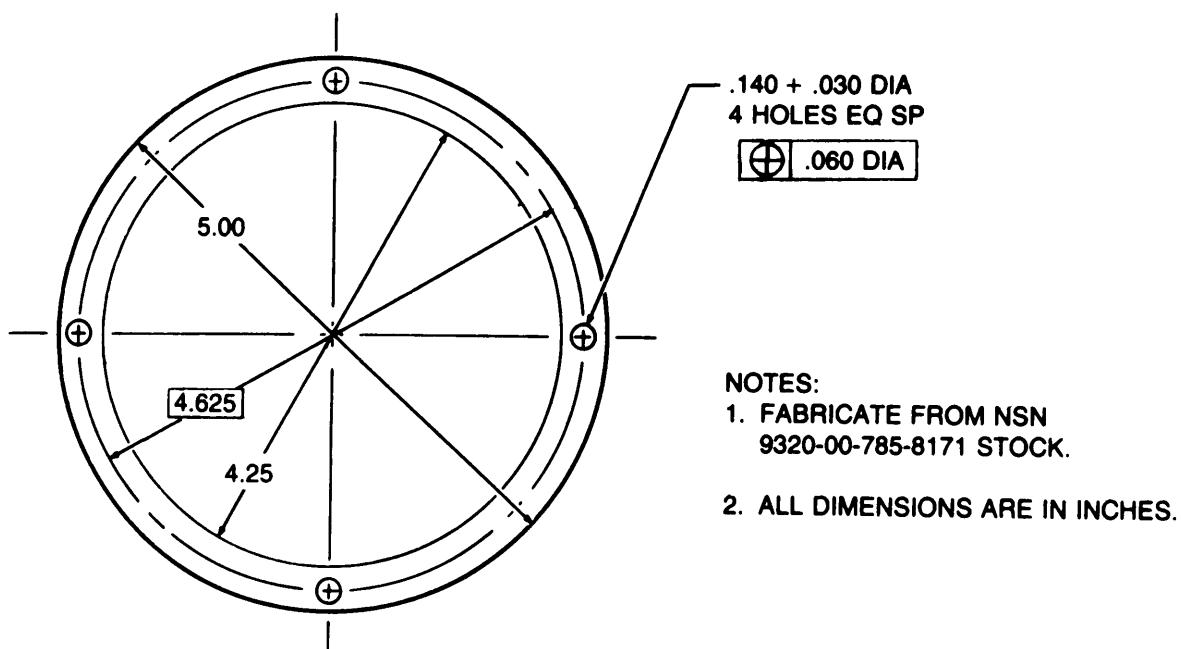


Figure D-1. Gasket

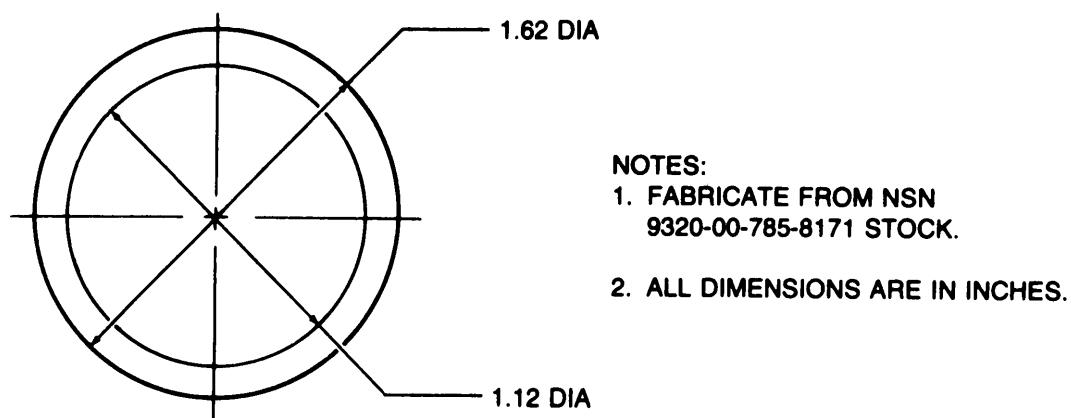


Figure D-2. Gasket

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— TEAR ALONG DOTTED LINE —

- | PAGE NO. | PARA-GRAPH | FIGURE NO. | TABLE NO. | |
|----------|------------|------------|-----------|---|
| 1-1 | 1-4 | | | ITEM 1. LINE 12. Change "Rock Island, IL 61201" to read, "Aberdeen Proving Ground, MD 21010." REASON: Wrong address. |
| 2-28 | 2-12 | | | ITEM 2. Test equipment. Add, "28V dc power supply capable of delivery 2 amps" REASON: Incomplete information. |
| 2-43 | 2-14 | | | ITEM 3. Add callout "20" to the shaft slinger in the illustration. REASON: Callout missing from illustration. |

SAMPLE

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

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GRAPH

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Aberdeen Proving Ground, MD 21010

THE METRIC SYSTEM AND EQUIVALENTS

NEAR MEASURE

Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

$5/9(F - 32) = ^\circ C$
 212° Fahrenheit is equivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius

$9/5C + 32 = ^\circ F$

APPROXIMATE CONVERSION FACTORS

TO CHANGE

Inches.....
 Feet.....
 Yards.....
 Miles.....
 Square Inches.....
 Square Feet.....
 Square Yards.....
 Square Miles.....
 Acres.....
 Cubic Feet.....
 Cubic Yards.....
 Fluid Ounces.....
 nts.....
 arts.....
 allons.....
 Ounces.....
 Pounds.....
 Short Tons.....
 Pound-Feet.....
 Pounds per Square Inch.....
 Miles per Gallon.....
 Miles per Hour.....

TO

Centimeters.....
 Meters.....
 Meters.....
 Kilometers.....
 Square Centimeters.....
 Square Meters.....
 Square Meters.....
 Square Kilometers.....
 Square Hectometers.....
 Cubic Meters.....
 Cubic Meters.....
 Milliliters.....
 Liters.....
 Liters.....
 Liters.....
 Grams.....
 Kilograms.....
 Metric Tons.....
 Newton-Meters.....
 Kilopascals.....
 Kilometers per Liter.....
 Kilometers per Hour.....

MULTIPLY BY

2.540
 0.305
 0.914
 1.609
 6.451
 0.093
 0.836
 2.590
 0.405
 0.028
 0.765
 29.573
 0.473
 0.946
 3.785
 28.349
 0.454
 0.907
 1.356
 6.895
 0.425
 1.609

TO CHANGE

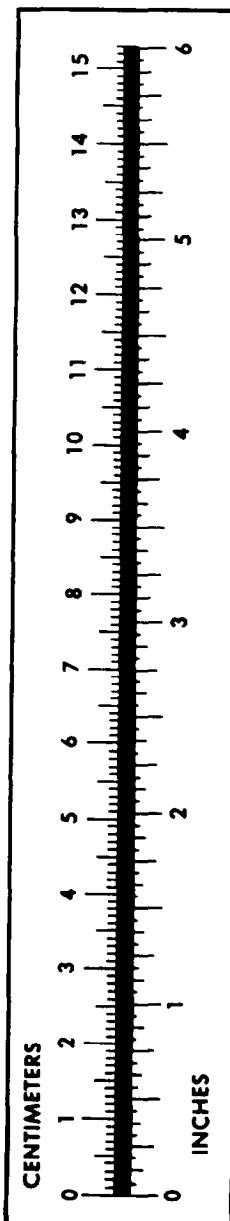
Centimeters.....
 Meters.....
 Meters.....
 Kilometers.....
 Square Centimeters.....
 Square Meters.....
 Square Meters.....
 Square Kilometers.....
 Square Hectometers.....
 Cubic Meters.....
 Cubic Meters.....
 Milliliters.....
 Liters.....
 Liters.....
 ers.....
 ms.....
 ograms.....
 Metric Tons.....
 Newton-Meters.....
 Kilopascals.....
 Miles per Liter.....
 Miles per Hour.....

TO

Inches.....
 Feet.....
 Yards.....
 Miles.....
 Square Inches.....
 Square Feet.....
 Square Yards.....
 Square Miles.....
 Acres.....
 Cubic Feet.....
 Cubic Yards.....
 Fluid Ounces.....
 Pints.....
 Quarts.....
 Gallons.....
 Ounces.....
 Pounds.....
 Short Tons.....
 Pounds-Feet.....
 Pounds per Square Inch.....
 Miles per Gallon.....
 Miles per Hour.....

MULTIPLY BY

0.394
 3.280
 1.094
 0.621
 0.155
 10.764
 1.196
 0.386
 2.471
 35.315
 1.308
 0.034
 2.113
 1.057
 0.264
 0.035
 2.205
 1.102
 0.738
 0.145
 2.354
 0.621



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