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TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL,
DIRECT SUPPORT AND GENERAL SUPPORT**

MAINTENANCE MANUAL

**(INCLUDING REPAIR PARTS
AND SPECIAL TOOLS LIST)**

FOR

POWER SUPPLY PP-7545/U

(HEWLETT-PACKARD MODEL 6269B)

(NSN 6130-00-148-1796)

HEADQUARTERS, DEPARTMENT OF THE ARMY

21 AUGUST 1980

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TECHNICAL MANUAL

No. 11-6625-2958-14&P

**HEADQUARTERS
DEPARTMENT OF THE ARMY**

Washington DC, 21 August 1980

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GENERAL SUPPORT MAINTENANCE MANUAL
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FOR

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(HEWLETT-PACKARD MODEL 6269B)

(NSN 6130-00-148-1796)

FOR SERIALS 1027A00101 AND ABOVE*

REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 located in the back of the manual. Simply tear out the self-addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.

If there are no blank DA Forms 2028-2 in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703.

In either case a reply will be forwarded direct to you.

This manual is an authentication of the manufacturer's commercial literature which, through usage, has been found to cover the data required to operate and maintain this equipment. Since the manual was not prepared in accordance with military specifications and AR 310-3, the format has not been structured to consider levels of maintenance.

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MANUAL CHANGES

Check the serial number of your power supply. Then refer to the manual changes at the rear of this technical manual and make changes as required so that your power supply can be correctly serviced.

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SECTION O INTRODUCTION

0-1. SCOPE.

a. This manual describes DC Power Supply PP-7545/U (fig. 1-1) and provides maintenance instructions. Throughout this manual, PP-7545/U is referred to as the Hewlett-Packard (HP) Model 6269B DC Power supply.

0-2. INDEXES OF PUBLICATIONS.

a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, additional publications pertaining to the equipment.

b. DA Pam 310-7: Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

0-3. FORMS AND RECORDS.

a. *Reports of Maintenance and Unsatisfactory Equipment.* Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. *Report of Packaging and Handling Deficiencies.* Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 735-11-2/NAVUPINST4440.127E/AFR 400-54/MCO

4430.3E and DSAR 4140.55.

c. *Discrepancy in Shipment Report (DISREP) (SF 361).* Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33B/AFR 75-18\MCO P4610.19C and DLAR 4500.15.

0-4. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).

EIR's will be prepared using SF 368 (Quality Deficiency Report). Instructions for preparing EIR's are provided in TM 38-750, the Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Communication and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

0-5. ADMINISTRATIVE STORAGE.

Administrative storage of equipment issued to and used by Army activities shall be in accordance with TM 740-90-1 and paragraph 2-8.

0-6. DESTRUCTION OF ARMY ELECTRONICS MATERIEL.

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

SAFETY PRECAUTIONS.

A periodic review of safety precautions in TB 385-4 is recommended. When the equipment is operated with covers removed while performing maintenance, DO NOT TOUCH exposed connections or components. MAKE CERTAIN you are not grounded when making connections or adjusting components inside the power supply.

WARNING

HIGH VOLTAGE is used during the "performance of maintenance as instructed in this manual. DEATH ON CONTACT may result if personnel fail to observe safety precautions.

SECTION I GENERAL INFORMATION

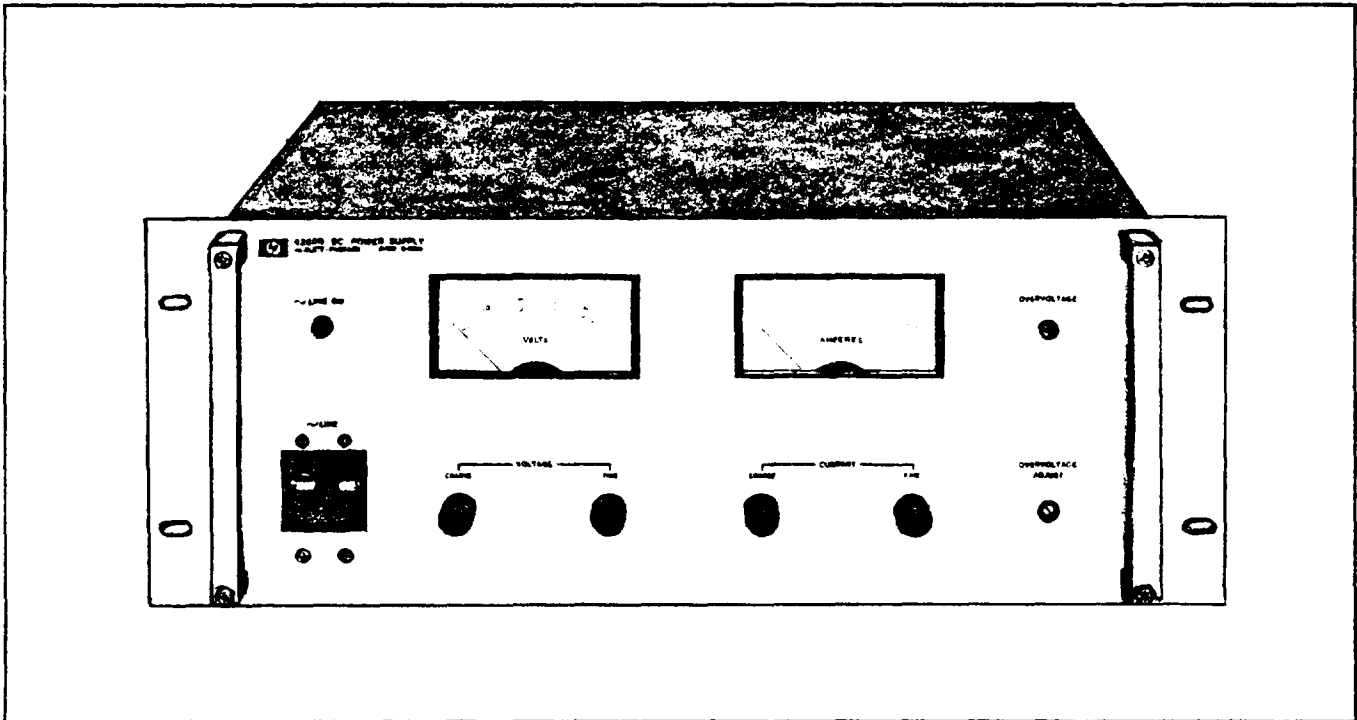


Figure 1-1. DC Power Supply, Model 6259B, 6260B, 6261B, 6268B, or 6269B

1-1 DESCRIPTION

1-2 This power supply, Figure 1-1, is completely transistorized and suitable for either bench or relay rack operation. It is a well-regulated, constant voltage/constant current supply that will furnish full rated output voltage at the maximum rated output current or can be continuously adjusted throughout the output range. The front panel CURRENT controls can be used to establish the output current limit (overload or short circuit) when the supply is used as a constant voltage source and the VOLTAGE controls can be used to establish the voltage limit (ceiling) when the supply is used as a constant current source. The supply will automatically cross over from constant voltage to constant current operation and vice versa if the output current or voltage exceeds these preset limits.

1-3 The power supply contains an added feature for protection of delicate loads. A limit can be set on the output voltage. If this limit is exceeded the output will automatically be shorted.

1-4 The power supply has rear output terminals. Either the positive or negative output terminal may be grounded or the power supply can be operated floating at up to a maximum of 300 volts above ground.

1-5 Output voltage and current are continuously monitored on two front panel meters.

1-6 Terminals located at the rear of the unit allow access to various control points within the unit to expand the operating capabilities of the power supply. A brief description of these capabilities is given below:

- a. Remote Programming. The power supply output voltage or current may be programmed (controlled) from a remote location by means of an external voltage source or resistor.
- b. Remote-Sensing. The degradation in regulation which occurs at the load due to voltage drop in the load leads can be reduced by using the power supply in the remote sensing mode of operation.
- c. Auto-Series Operation. Power supplies