

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL
 MAINTENANCE MANUAL,
 POWER SUPPLY PP-3514/U

Headquarters, Department of the Army, Washington 25, D.C.

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WARNING

Be careful when working on the inside of the equipment. Disconnect the power cable from the power source. Serious injury or death may result from contact with the 115-volt terminals.

DON'T TAKE CHANCES!

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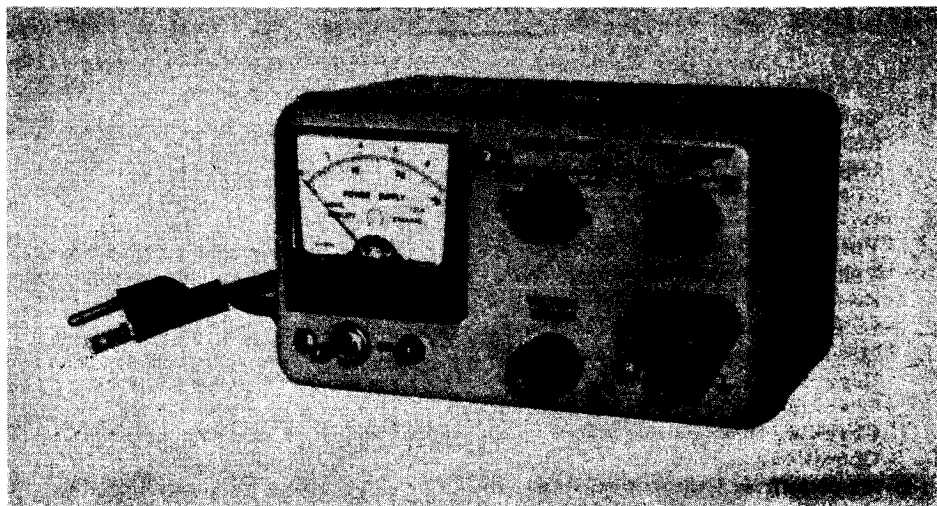


Figure 1. Power Supply PP-3514/U, less technical manuals.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1. Scope

This manual describes Power Supply PP-3514/U (fig. 1) and provides instructions for installation, operation, and operator and organizational maintenance. Also, it includes instructions for cleaning and inspection of the equipment. Throughout this manual, Power Supply PP-3514/U is referred to as the power supply.

2. Index of Equipment Publications

Refer to the latest issue of DA Pam 310-4 to determine whether there are new additions, changes, or additional publications pertaining to the equipment. Department of the Army Pamphlet No. 310-4 is an index of current technical manuals, technical bulletins, supply manuals, supply bulletins, lubrication orders, and modification work orders available through publications supply channels. The index lists the individual parts (-10, -20, -35P, etc) and the latest changes to and revisions of each equipment publication.

3. Forms and Records

a. Reports of Maintenance and Unsatis-

factory Equipment. Use equipment forms and records in accordance with instructions in TM 38-750.

b. Reports of Damaged or Improper Shipment. Fill out and forward DD Form 6 (Report of Damaged or Improper Shipment) as prescribed in AR 700-58 (Army), NAVSANDA Publication 378 (Navy), and AFR 71-4 (Air Force).

c. Reporting of Equipment Manual Improvements. The direct reporting, by the individual user, of errors, omissions, and recommendations for improving this equipment manual is authorized and encouraged. DA Form 2028 will be used for reporting these improvements. This form may be completed using pencil, pen, or typewriter. DA Form 2028 will be completed in triplicate and forwarded by the individual using the manual. The original and one copy will be forwarded direct to: Commanding General, U. S. Army Electronics Command, ATTN: AMSEL-MR-MP-P, Fort Monmouth, New Jersey 07703. One information copy will be provided to the individual's immediate supervisor (officer, noncommissioned officer, supervisor, etc).

Section II. DESCRIPTION AND DATA

4. Purpose and Use

Power Supply PP-3154/U is a compact, general purpose power supply for test bench use. It supplies a regulated output voltage which is continuously adjustable by a front panel control from 0 to 30 volts direct current (dc) with an output current up to 150 milliamperes. Overload protection is provided by automatically limiting the output current to 25, 50, 100, or 225 milliamperes as selected by a front panel switch. Output voltage and current moni-

toring is provided by a front panel meter and a meter range switch. The power supply output voltage is supplied at two binding post terminals, on the front panel, which are isolated from the instrument chassis. Either terminal may be connected to external circuits having potentials as high as 400 volts in reference to the powerline ground. The powerline ground is available at a third binding post terminal connected to the instrument chassis. Two or