# INSTRUCTIONS FOR DRAKE MODEL CPS-1 POWER SUPPLY

## DESCRIPTION

The CPS-1 Power Supply is a completely solid-state power supply employing silicon diodes in a full-wave bridge rectifier circuit. Filtering is accomplished by a 1000 mfd electrolytic capacitor. The unit operates from a 120 V, 50/60 Hz source.

The CPS-1 is designed to power the DRAKE models SCC-1 and SC-2 together, or the SCC-1 and the SC-6 together. An On-Off switch is used in the primary of the transformer to turn the unit on and off. The power socket is a Cinch-Jones S-302-AB which mates with a Cinch-Jones P-302-AB plug.

Overload protection is provided by a 2/10 ampere fuse in the transformer primary. This fuse is soldered across two terminals on the back of the power supply printed circuit board.

## INSTALLATION

The CPS-1 is connected to either the SC-2 or SC-6 simply by plugging the units together. When used with the SCC-1 calibrator, the power supply is plugged into one side of the SCC-1 and either the SC-2 or SC-6 is plugged into the other side of the SCC-1. The CPS-1 On-Off switch supplies power to both the calibrator and the converter.

A short metal strap is provided to bond the CPS-1 and the converter together for mechanical rigidity and will help minimize I.F. feed thru if this is a problem in a particular location. The strap is mounted under one screw in each cover.

For installation in the converter console CC-1, consult the CC-1 instruction manual.

## SPECIFICATIONS

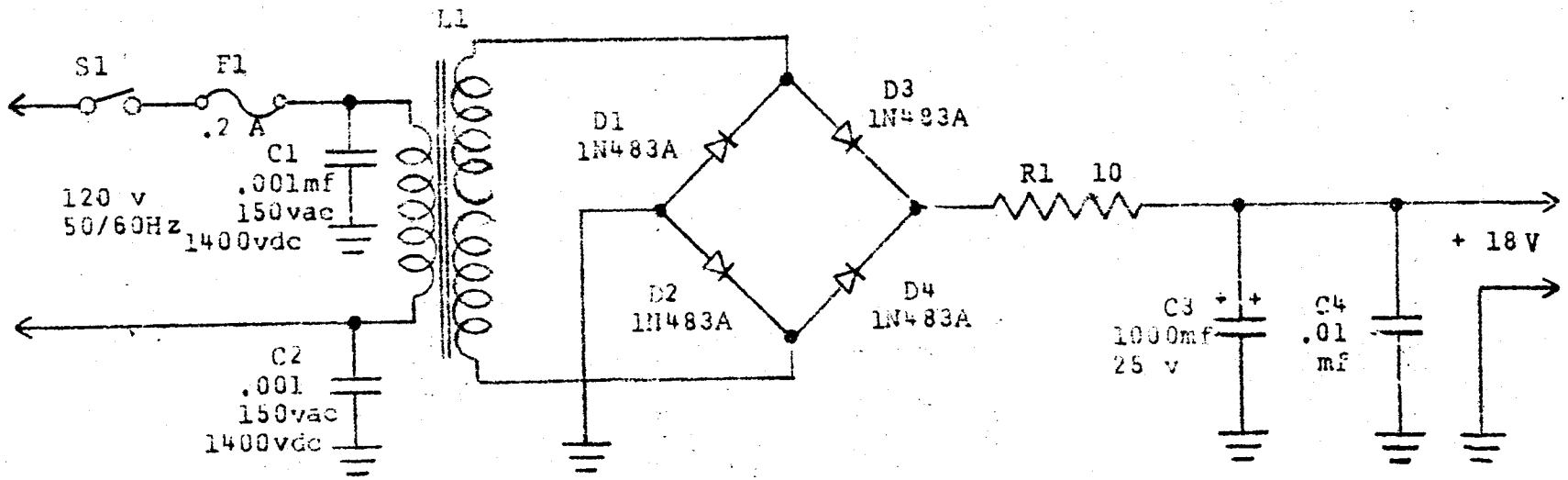
A. POWER OUTPUT

1. +21 volts DC open circuit
2. +17.5 volts DC at 50 ma
3. 100 ma maximum current

B. PHYSICAL

1. Size- 3-1/4" L. x 4-3/16" W. x 2-1/16" H.
2. Weight- 1 pound, 1 ounce

DW6/67.




CPS-1 POWER SUPPLY SCHEMATIC DIAGRAM