

OPERATING INSTRUCTIONS

GAS DISCHARGE TUBE POWER SUPPLY

CENCO NO. 87207

1. INTRODUCTION

The Gas Discharge Tube Power Supply is a high voltage, low current power supply specifically designed to energize gas filled spectrum tubes, such as Balmer Gas Discharge Tubes, High Intensity Discharge Tubes, and Quartz Discharge Tubes. See Section 6, for a selection of Spectrum Tubes.

2. SPECIFICATIONS

Input Data

Voltage, Volts	115
Current, Amperes	2.6
Current Frequency, cps	60
Power Consumption, Watts	150

Output Data

Voltage, Volts	5000
Current, Amperes	0.06
Current Frequency, cps	60

Dimensions, Inches

Length	13
Width	10-7/116
Depth	5

3. DESCRIPTION

The Cenco Gas Discharge Tube Power Supply consists of a special transformer enclosed within a metal cabinet on which are mounted two high-voltage connectors, an ON-OFF power switch, a pilot light, a fuse holder and fuse. The high-potential winding of the transformer, see Fig. 1, terminates at the connectors mounted on the cabinet. The power supply is provided with a 3-wire line cord and plug.

Two high-voltage cord assemblies are supplied with each unit. The assemblies are equipped with special connectors which mate with the high-voltage connectors of the power supply and serves as leads to energize mounted or unmounted discharge tubes.

4. OPERATION

Because of the high potential, 5000 volts, developed across the output terminals of the power supply, it is recommended that the Gas Discharge Tubes be energized only when held by a properly designed tube holder, such as Cenco No. 87201.

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5. MAINTENANCE

The Cenco Gas Discharge Tube Power Supply requires little or no maintenance. With normal care and proper usage, each will give long and dependable service. Should trouble develop which cannot be immediately corrected contact the nearest Cenco Service Department or the nearest Branch Office for further instructions. Do not return the units or any of its components without written permission from Cenco.

6. ACCESSORIES

<u>Description</u>	<u>Cenco No.</u>
Balmer Gas Discharge Tubes	
Hydrogen-Deuterium	87204
Hydrogen	87206
High Intensity Discharge Tubes	
Argon	87261-1
Neon	87261-2
Krypton	87261-3
Xenon	87261-4
Quartz Discharge Tubes	
Argon	87262-1
Neon	87262-2
Krypton	87262-3
Xenon	87262-4
Mercury	87262-5
Helium	87262-6
Tube Holder	087201

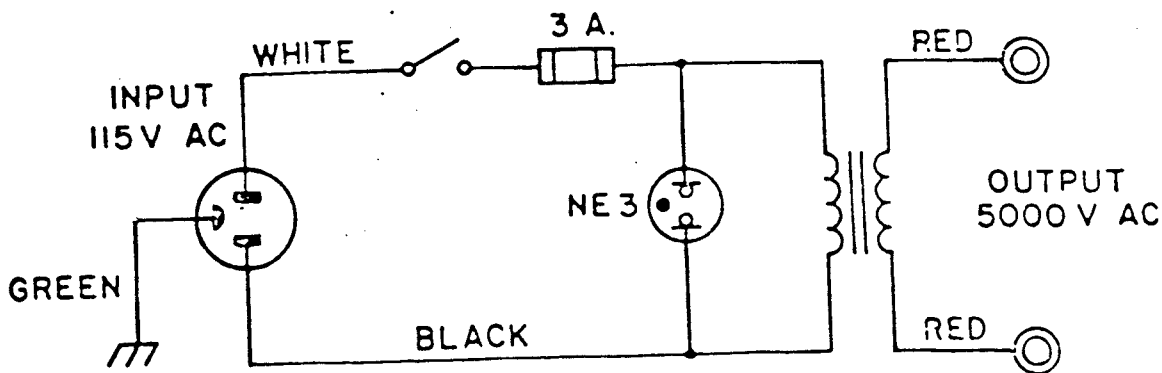


FIG. 1 - SCHEMATIC WIRING DIAGRAM OF THE GAS DISCHARGE TUBE POWER SUPPLY, CENCO NO. 087208