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CA-316 UHF/VHF Radio Portable Test Set

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CA-316
UHF/VHF RADIO
PORTABLE TEST SET

PRESENTED TO
THE FACULTY OF THE

ELECTRICAL ENGINEERING TECHNOLOGY
DEPARTMENT

AT THE
INDIANA-PURDUE CAMPUS
FORT WAYNE, INDIANA

MAY 4, 1979

PRESENTED
BY
DAVID L. BRICKLEY

ABSTRACT

Our department felt there was a need for a portable intermediate level test set for UHF/VHF radios presently being manufactured at Magnavox for the military. This project was assigned to me, to be responsible for the electrical design and mechanical layout, the purchase of parts, drafting, technical publications, and final acceptance test specification.

The test set was to include the features of the USAF standard AN/ARM-173 test set, plus the following:

(1) Internal 120/240 vac to +28 vdc power supply for ten watt radios

(2) Serial data decoder with liquid crystal display of frequency

(3) Parallel data indicator using light emitting diodes

(4) A speaker for monitoring the receiver,and as a microphone in the transmit mode

(5) RF power meter

Possible options of a frequency counter, audio oscillator, and RF generator are to be considered.

This test set is to be built into a small molded fiberglass case with a small storage area for cables.

TABLE OF CONTENTS

ILLUSTRATIONS