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TECHNICAL MANUAL

OPERATION AND SERVICE/ORGANIZATIONAL, GS AND DEPOT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS BREAKDOWN

TEST SET, TRANSPONDER SET AN/APM-239A

Hazeltine Corporation
F33657-67-C-1319

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INTRODUCTION AND DESCRIPTION

1-1. SCOPE.

1-2. This technical manual contains descriptive and preparation-for-use information, operating instructions, maintenance instructions, depot overhaul standards, and a parts list for Test Set, Transponder Set AN/APM-239A (figure 1-1). The equipment is manufactured by Hazeltine Corporation, Little Neck, New York.

1-3. PURPOSE OF EQUIPMENT.

1-4. Test Set, Transponder Set AN/APM-239A, herein referred to as the over-all test set, is a portable test set designed for the maintenance support of the following equipments:

Receiver-Transmitter RT-727/APX-64
Receiver-Transmitter RT-728/APX-64
Receiver-Transmitter RT-731/APX-64
Receiver-Transmitter RT-774/APX-68
Receiver-Transmitter RT-859/APX-72
Receiver-Transmitter RT-494/APX-44
Transponder Test Set TS-1843/APX
Transponder Computer KIT-1A/TSEC
Altitude Encoder TRU-73/A
Altitude Encoder CPU-66/A
Altitude Encoder CPU-46/A
Transponder Set Control C-2714/APX-44

NOTE

Transponder Set Control C-6280(P)/APX or C-6280A(P)/APX, supplied as part of the over-all test set, is supplied as GFP (Government Furnished Property).

The over-all test set provides power to the equipment under test and provides the means for interconnecting the various units of a transponder set for the purpose of bench testing and adjusting. The over-all test set essentially simulates the wiring harness in the aircraft.

1-5. GENERAL DESCRIPTION.

1-6. The test set and associated accesories are contained in a transit case (figure 1-1) which is a lightweight, portable, aluminum case. The test set is removed from the transit case and is suitable to permit use of the set when placed on a work bench along with associated test equipment and units to be tested. All controls, switches, connectors, and indicators are located on the front panel of the test set. In addition to the test set itself, the transit case has provision for the fault isolation meter, 15 extender boards, accessory and power cables, coaxial adaptors, special tools and the technical manual.

1-7. ELECTRICAL AND MECHANICAL CHARACTERISTICS.

1-8. A list of the electrical and mechanical characteristics is given in figure 1-2.

1-9. EQUIPMENT SUPPLIED.

1-10. A list of the equipment supplied as the over-all test set (excluding accessories) is given in figure 1-3 and illustrated in figure 1-1.