

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL
TEST FACILITY SETS

TS-2644 / ASN AND TS-2645 / ASN

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CHAPTER 1

INTRODUCTION

Section I . GENERAL

1-1. Scope

This technical manual contains operator, organizational, direct support, and general support maintenance instructions for Test Facility Set TS-2644 / ASN and Test Facility Set TS-2645 / ASN.

1-2. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Use equipment forms and records in accordance with instructions given in TM 38-750.

b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Report of Packaging and Handling Deficiencies) as prescribed in AR 700-58 (Army) / NAVSUP Pub 378 (Navy/AFR 71-4 (Air Force)/ and MCO P4030.29 (Marine Corps).

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38 (Army) / NAVSUP Pub 459 (Navy) / AFM 75-34 (Air Force)/ and MCO P4610.19 (Marine Corps).

1-3. Equipment Serviceability Criteria (ESC).

There are no EXC technical manuals for the equipments covered in this technical manual.

1-4. Destruction of Army Materiel to Prevent Enemy Use.

Demolition of the equipment will be accomplished only upon the order of the Commander. Refer to TM 750-244-2 for procedures to prevent enemy from using or salvaging this equipment.

1-5. Administrative Storage

For procedures, forms, records, and inspections required during administrative storage of this equipment, refer to TM 740-90-1.

1-6. Calibration

There are no calibration requirements for the equipment covered in this manual per TM 750-236.19 March 1973.

1-7. Reporting of Equipment Publication Improvements

The reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to Commander, US Army Electronics Command, ATTN: AMSEL-MA-AN, Fort Monmouth, NJ 07703.

Section II. DESCRIPTION AND DATA

1-8. Purpose and Use

a. The TS-2644 / ASN provides the necessary interconnections, controls, and test points to permit testing of Gyromagnetic Compass Set AN / ASN-43 with Radio-Magnetic Compass Indicator ID-998(*) / ASN as an operating system.

b. The TS-2645 / ASN provides the necessary interconnections, controls, cabling, and test points to permit testing of Gyromagnetic Compass Set AN / ASN-43 with Heading-Radio Bearing Indicator ID-1351 / A as an operating system.

c. The TS-2644 / ASN and TS-2645 / ASN incorporate the following methods of providing magnetic heading to the system under test:

(1) Self-contained magnetic heading simulator.

(2) Access cable and connector to mate with Induction Compass Transmitter T-611 / ASN.

(3) Access cable and connector to mate with external magnetic heading simulator.

1-9. Description (fig. 1-1)

The cover and case are constructed of deep-drawn aluminum alloy. The cover is hinged at the rear of the case with a separable-type hinge. Two latch-type fasteners cinch the cover against an extruded neoprene gasket that is secured on the mating surface of the case. A swivel-type carrying handle is attached to the top of the cover. The case and cover are finished with gray enamel.

a. Case and Cover Assembly. The case houses all controls, connectors, cabling, and electrical parts that comprise the test set. All test set controls are located on the panel which is recessed in the case. The connectors of cables W2, W3, and W4 are stowed in and secured by angle brackets mounted on the panel and in the cover. A schematic diagram of the test set is enclosed in laminated clear plastic and secured to the inside top surface of the cover with a bonding adhesive.