

TECHNICAL MANUAL

**OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)**

**TEST SET, SIGNAL DATA CONVERTER
AN/AYM-8**

(NSN 6625-00-137-2289)

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 (FSN 6625-137-2289)

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope.

This manual describes Test Set, Signal Data Converter AN/AYM-8 (fig. 1-1) and covers its operation and organizational maintenance. It includes instructions for performing preventive and periodic maintenance and replacement of parts available to the organizational repairman.

1-2. Indexes of Publications.

a. DA Pam 310-4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1-3. Forms and Records.

a. Reports of Maintenance and Unsatisfactory Equipment.

Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR

70058/NAVSUPINST 4030.29/AFR 71-13/IMCO P4030.29A, and DLAR 4145.8.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 61) as prescribed in AR 55-38/NAV4610.33B/AFR 75-18/MCO P4610.19C and DLAR 4500.15.

1-3.1. Reporting of Errors

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 Blank Forms) and forwarded directly to Commander, US Army Communications and Electronics Material Readiness Command, ATTN: DRSEIL-ME-MQ, Fort Monmouth, NJ 07703.

1-3.2. Reporting Equipment Improvement Recommendations (EIR)

EIR's will be prepared using SF 368, Quality Deficiency Report. Instructions for preparing EIR's are provided in TM 38-750, The Army Maintenance Management System. EIR's should be mailed directly to Commander, US Army Communications and Electronics Material Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. Apply will be furnished directly to you.

1-4. Administrative Storage

Refer to paragraph 5-1 for administrative storage of the equipment.

Section II. DESCRIPTION AND DATA

1-5. Purpose and Use

a. Purpose. Test Set, Signal Data Converter AN/AYMI-8 (test set) provides operating voltages, simulate(digital data signals, and appropriate loads for testing and trouble-shooting Signal Data Converter CV-2647.(SDC), a unit of Airborne Data Annotation System AN/AYA-10 (ADAS).

b. Use. The test set is used for bench testing the SDC. The test set simulates normal inputs, as listed in table 1-1 and monitors outputs from the SDC.

(1) The test set can be used in a bench test of the SDC (during which the SDC remains connected

to the other units of the ADAS. In this mode of testing the operator can determine whether or not the SDC meets its system performance standards.

(2) The test set can also be used to bench test the SDC as an independent unit; that is, while it is removed from the rest of the ADAS. This mode of testing allows the operator to troubleshoot faulty operation to a circuit or circuit card(s) within the SDC.

(3) For all functional bench tests, the purpose of the test set is to supply power and signal stimuli to the SDC and to monitor its responses. The signals sent to the SDC simulate those the SDC normally receive when interfaced with the a-