

TECHNICAL MANUAL

**OPERATION'S, ORGANIZATIONAL DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE**

FOR

**TELEGRAPH DATA ANALYZER TS-3378/G
(STELMA MODEL DMS 303A)
(NSN 6625-00-214-8400)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

MAY 1978

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TECHNICAL MANUAL)
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DEPARTMENT OF THE ARMY
Washington, D.C., 30 May 1978

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(STELMA MODEL DMS 303A)
(NSN 6625-00-214-8420)

REPORTING OF ERRORS

You can improve this manual by recommending improvements using DA Form 2028-2 (Test) located in the back of the manual. Simply tear out the self-addressed form, fill it out as shown on the sample, fold it where shown, and drop it in the mail.

If there are no blank DA Forms 2028-2 (Test) in the back of your manual, use the standard DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forward to the Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-1, Fort Monmouth, NJ 07703.

In either case a reply will be furnished direct to you.

This manual is an authentication of the manufacturer's commercial literature which, through usage, has been found to cover the data required to operate and maintain this equipment. Since the manual was not prepared in accordance with military specifications and AR 310-3, the format has not been structured to consider levels of maintenance.

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0. INTRODUCTION

0.01 Scope. This manual describes Telegraph Data Analyzer TS-3378/G and provides instructions for operation and maintenance. Throughout this manual, the TS-3378/G is referred to as the Analyzer.

0.02 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.

0.03 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 Deficiencies. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 700-58/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DSAR 4145.8.

(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/NAVSUPINST 4610.33A/AFR 75-18/MCO P4610.198B and DSAR 4500.15.

0.04 Reporting Equipment Improvement Recommendations (EIR). EIR's will be prepared using DA Form 2407, Maintenance Request. Instructions for preparing EIR's are provided in TM 38-750, The Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

0.05 Administrative Storage. Refer to paragraph 1.22 for administrative storage checkout procedures.

0.06 Destruction of Army Materiel. Destruction of Army materiel to prevent enemy use shall be as prescribed in TM 750-244-2.

1. GENERAL

1.01 This manual describes installation, operation, theory, and maintenance of the DMS-303A Analyzer (Fig. 1).

(A) Electrical Description

1.02 The Analyzer measures bias and end distortion and detects and counts parity and bit errors present in data signals, of any standard signal level, with bit rates up to 9600 bauds.

Distortion

1.03 For start-stop signals, with code levels of 5, 6, 7, or 8, the Analyzer measures peak distortion, bias, and end distortion. Direct read-out is provided by a front-panel meter, calibrated in per-cent-of-unit interval, and two lamps that indicate whether the distortion is Marking or Spacing. Read-out may be obtained on either all transitions or on selected transitions (first or second or third, etc.).

1.04 For synchronous signals, the Analyzer measures bias and peak distortion.

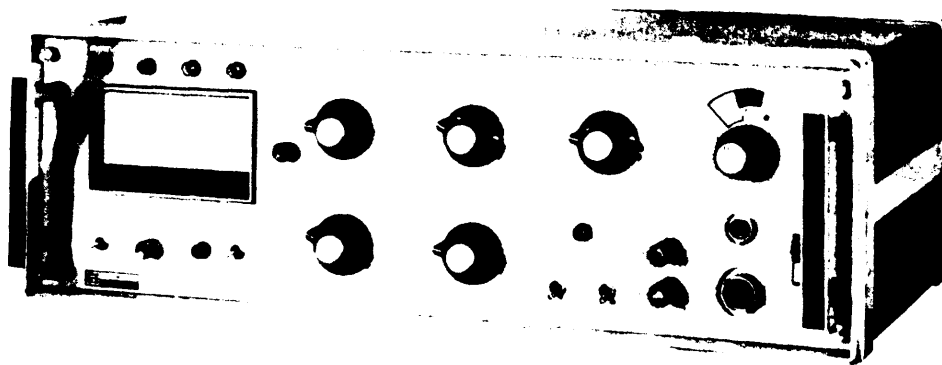


Fig. 1 - Front View - DMS-303A Analyzer