

TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT,
AND DEPOT MAINTENANCE MANUAL**

**TEST SET, STABILIZATION SYSTEM, FLIGHT LINE
TS-1893/ASM
(NSN 6615-00-133-7836)**

**This copy is a reprint which includes current pages from
Changes 1 through 4. The title was changed by C 4 to read
as shown above.**

HEADQUARTERS , DEPARTMENT OF THE ARMY

FEBRUARY 1966

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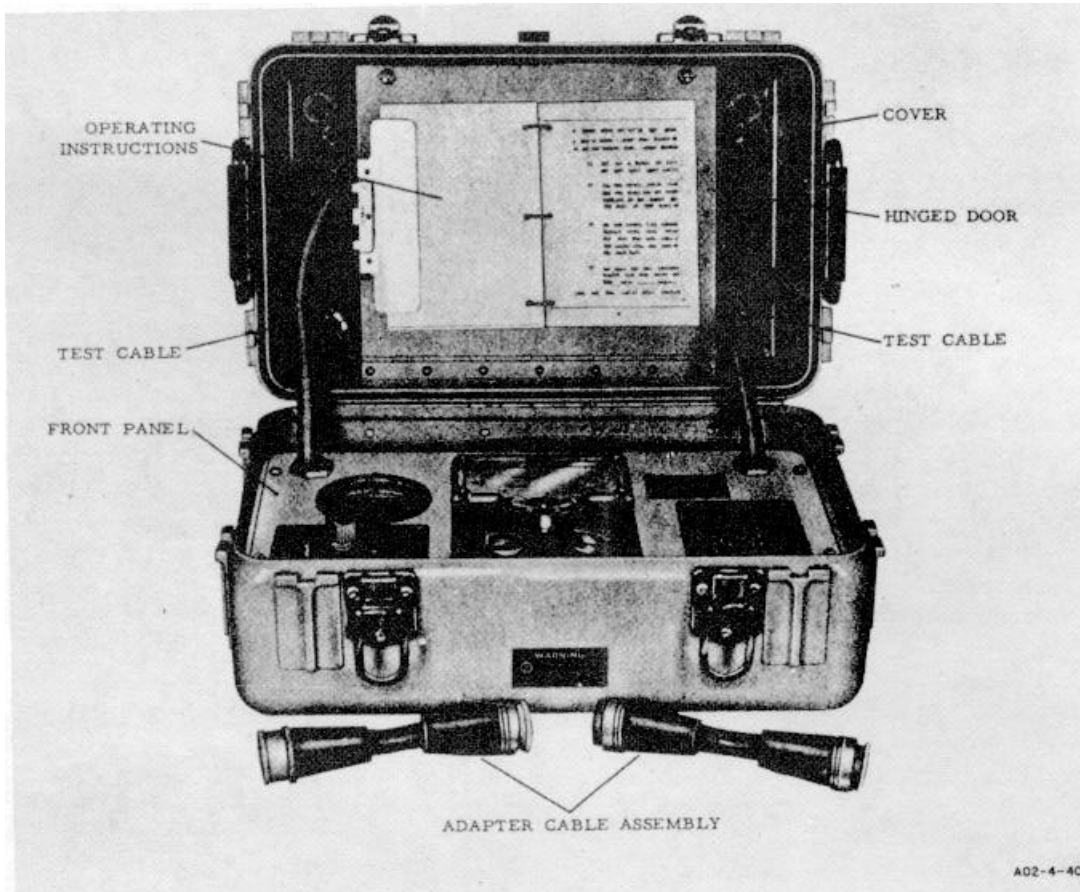


Figure 1-1. ASE-Speed Trim-SAS Line Test Set

SECTION I INTRODUCTION AND DESCRIPTION

1-1. General

1-2. Scope

This manual describes Test Set, Stabilization System, Flight Line TS-1893/ASM (fig. 1-1) and provides instruction for operation, maintenance, and functioning of the equipment. Appendixes include the maintenance allocation chart and illustrated parts breakdown.

a. All references to ASE-Speed Trim-SAS Line Test Set in this manual, apply to Test Set, Stabilization System Flight Line TS-1893/ASM.

b. Other technical manuals pertaining to this equipment include (TM 11-6625-645-24P and TM 11-6625-816-15 (Authenticated NAVSHIPS 92051) which covers the ME-418/U (part of the TS-1893/ ASM).

c. Information for the ASE testing feature is not applicable to CH-47 helicopters. Refer to NAVAIR 17-15C-93 for ASE testing procedures.

1-2.1. 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.

1-2.2. 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/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 5538/NAVSUPINST 4610.33A/AFR 75-18/ MCO P4610.19B and DSAR 4500.15.

1-2.3. Reporting of Errors.

You can help improve this manual by calling attention to errors and by recommending improvements and stating your reasons for the recommendations. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSELMA-Q, Fort Monmouth, NJ 07703 A reply will be furnished direct to you.

1-2.4. Destruction of Army Electronics Materiel.

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

1-2.5. Administrative Storage.

Administrative storage of equipment issued to and used by Army activities shall be in accordance with TM 740-90-1.

1-2.6. 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 Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, NJ 07703. A reply will be furnished direct to you.

1-3. Purpose of Equipment

The TS-1893/ASM (test set) provides line testing facilities for the Automatic Speed Trim System and Stability Augmentation System (SAS) in CH-47 helicopters. The test set also provides line testing facilities for the Automatic Stabilization Equipment (ASE) in other helicopters. This information is not included in this manual.

1-4.

The test set is series-connected between the amplifier or circuit box for the automatic flight control system under test and its cable connector.