

TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL

**STROBOSCOPES TS-805B/U (NSN 6625-00-752-7992)
TS-805C/U (NSN 6625-00-752-7992),
AND TS-805D/U (NSN 6625-00-196-2858)**

**HEADQUARTERS, DEPARTMENT OF THE ARMY
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STROBOSCOPES TS-805B/U (NSN 6625-00-752-7992), TS-805C/U
(NSN 6625-00-752-7992), TS-805D/U (NSN 6625-00-196-2858),
AND TS-805E/U (NSN 6625-01-155-4538)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703.

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

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Figure 1-1. Stroboscope TS-805B/U.

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This technical manual describes Stroboscopes TS-805B/U, TS-805C/U, TS805D/U, and TS-805E/U and covers their installation, operation, and organizational maintenance.

b. Throughout this manual, the word stroboscope refers to all models of the equipment.

c. Appendix A contains references and appendix C contains the maintenance allocation chart.

1--2. Consolidated Index of Army Publications and Blank Forms.

Refer to the latest issue of DA Pam 310-1 to determine whether there are new additions, changes, or additional publications pertaining to the instrument.

1-3. Maintenance Forms, Records, and Reports

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 SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-11-2/DLAR 4140.55/NAV-MATINST 4355.73A/AFR 400-54/MCO 4430.3F.

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 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

1-4. Administrative Storage

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

1-5. Destruction of Army Electronics Materiel

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

Section II. DESCRIPTION AND DATA

1- 6. Purpose and Use

The stroboscope is a portable electronic tachometer which provides rapid and accurate means of directly measuring the speed of rotating or oscillating equipment without mechanical contact with the device being measured. Stroboscope TS-805B/U will directly measure speeds between 60 and 15,000 revolutions per minute (x-pm). Stroboscope TS-805C/U will directly measure speeds between 60 and 15,000 rpm. Stroboscope TS-805D/U measures speeds between

600 and 15,000 rpm. Stroboscope TS-805E/U measures speeds between 100 and 25,000 ppm. Each instrument, by indirect methods, has the capability of measuring speeds as high as 50,000 rpm.

1-7. Differences Between Models

Stroboscope TS-805B/U, TS-805C/U, TS-805D/U, and TS-805E/U are similar in purpose and operational features. Differences in tube complement and operating controls are listed below:

Item	TS-805B/U	TS-805C/U	TS-805D/U	TS-805E/U
Electron tube complement	6SN7GTA/GTB, 6X4 12AU7, and 555B2 (flash tube).	6X5GT/G, 6N7GT/G , and ID21/SN4 (flash tube).	6X4, 12AU7, and 631P1 (flash tube).	2UP/3.0 (flash tube).
Color of flash	White.	White.	Red.	White.
Front panel controls	u. Power switching accomplished with function switch. b. Six-position function switch designated STROBO-SCOPE EXT. PULSE.	a. Separate POWER ON toggle switch. b. Five-position function switch designated STROBO-SCOPE CONTACTOR	a. Power switching accomplished with function switch. b. Six-position function switch designated STROBO-SCOPE EXT. PULSE.	a. Separate POWER ON toggle switch. b. Six-position function switch designated RANGE/FPM.