

TECHNICAL MANUAL

**OPERATION AND MAINTENANCE INSTRUCTIONS
WITH ILLUSTRATED PARTS BREAKDOWN**

**TESTER, OXYGEN MASK,
HEADSET, MICROPHONE AND FLASH GOGGLES**

**TYPE MQ.1A, PN 1854
NSN 6695-01-097-0441**

**THIS TECHNICAL MANUAL IS A REPRINT OF AIR FORCE T.O.
33D2-10-10-41, 1 NOVEMBER 1980, INCLUDING CHANGES 1
THROUGH 4.**

DEPARTMENT OF THE ARMY

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**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 or 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 Aviation Systems Command, ATTN: AMSAV-MPSD, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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SECTION I

INTRODUCTION AND GENERAL INFORMATION

1-1. INTRODUCTION. This technical manual contains operating and maintenance instructions and an illustrated parts breakdown for the Oxygen Mask, Headset, Microphone and Flash Goggles Tester, Type MQ-1A, National Stock Number 6695-01-0970441. The MQ-1A Tester is manufactured by Winding Specialists Co., Inc., Wichita, KS under part number 1854.

1-2. PURPOSE. The MQ-1A Tester (hereinafter referred to as tester) is a preflight tester for the MS22001 oxygen mask and similar oxygen masks and the P series helmet to discover evidence of leakage or other malfunctions. It duplicates the oxygen, flash goggles and communications system installed on aircraft, except that this unit can be made available in personnel areas. The tester performs "talk out" checks of headsets and mask microphones, and of headset

microphones used with the AN A1C-10 Intercommunication Set or similar systems. The tester also provides regulated power for the EEU-2P flash protection goggles.

1-3. DESCRIPTION. (See figure 1-1.) The tester is - contained in a portable case that requires only two external connections: 1) connection to a supply of breathing oxygen adjusted to 450 psi and 2) connection of the power cord to 115 volt, 60 Hz electrical power. All operating controls and instrumentation are located on the control panel and are accessible with the cover opened. Sufficient space is provided between the closed cover and the control panel to permit storage of connecting cables, power cord and oxygen hose when not in use. Additional physical characteristics and specifications are provided in subsequent paragraphs and Table 1-1.

Table 1-1. Leading Particulars.

Input voltage	115 VAC, 60 HZ
Oxygen supply	450 PSI
Dimensions	14 in. long x 8 3/4 in. wide x 10 in. high
Weight	15 pounds

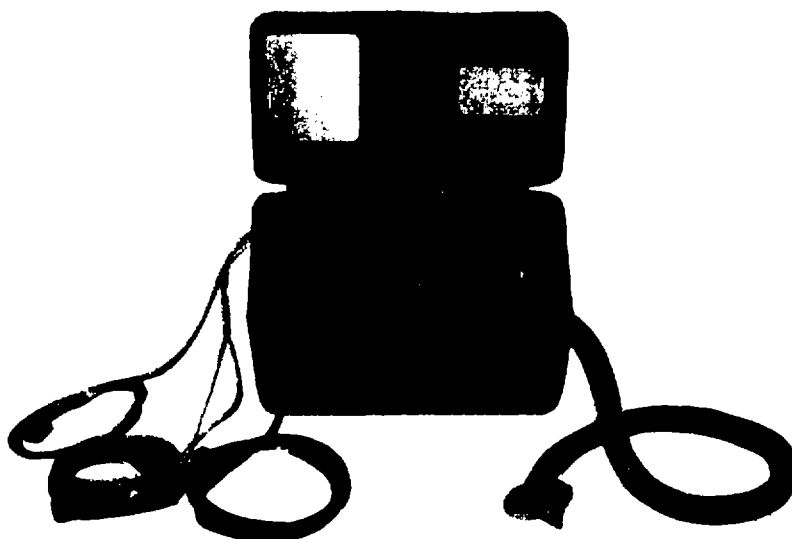


Figure 1-1. Oxygen Mask, Headset, Microphone and Flash Goggles Tester MQ-1A