TM 9-4940-403-14&P

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS LIST

FOR

TEST STAND, ROTARY ACTUATOR, MODEL NO. BDL-812121

NATIONAL STOCK NUMBER 4940-00-152-2107

(BARKLEY & DEXTER LABORATORIES, INC.)

HEADQUARTERS, DEPARTMENT OF THE ARMY

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Technical Manual

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REPORTING OF ERRORS

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 Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished directly to you.

Manufactured by: Barkley & Dexter Laboratories, Inc.
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This technical manual is an authentication of the manufacturers' commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

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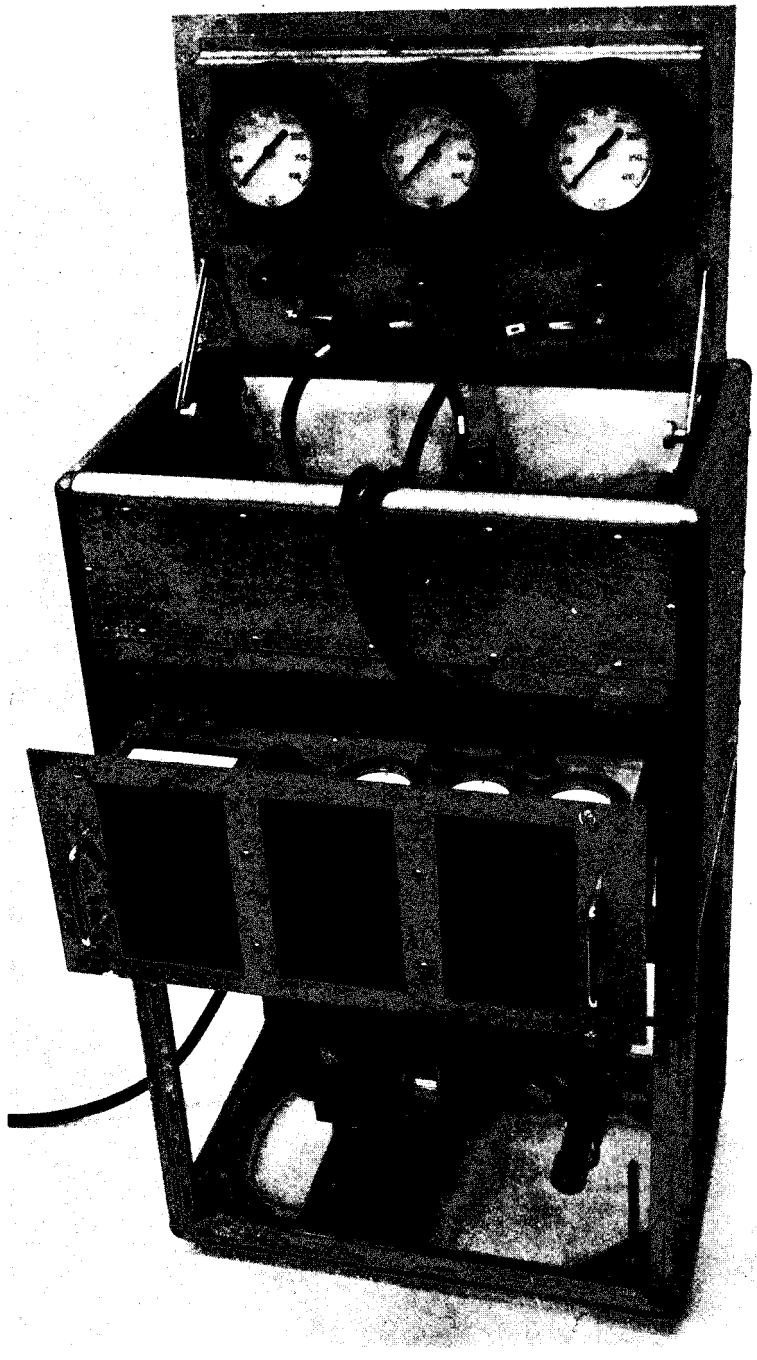

FIGURE 1

SECTION I

GENERAL INFORMATION

1-1 INTRODUCTION

This manual contains general instructions for the operation and maintenance of the Hydraulic Actuator Test Stand.

1-2 PURPOSE OF EQUIPMENT

The Hydraulic Actuator Test Stand is a "GO" - "NO-GO" test device. The Test Stand may be used for testing Military Standard Hydraulic Actuators of Styles DOD #69-600-1, 69-600-2,69-600-3, and 69-600-4, and other applicable style numbers listed in Table 2-2. The tests provided by this stand determine the operational condition of the actuator hydraulic and electronic components.

1-3 TECHNICAL CAPABILITIES

Actuator Tests:

The Test Stand allows the following "GO" - "NO-GO" tests to be performed on the actuator:

(A) Mechanical Bias

A check to determine whether the actuator is properly biased to open or close with no current in the actuator coils.

(B) Balanced Coil Current

A check that when balanced current is applied to the coils equal hydraulic pressure is applied to the piston causing it to remain stationary.