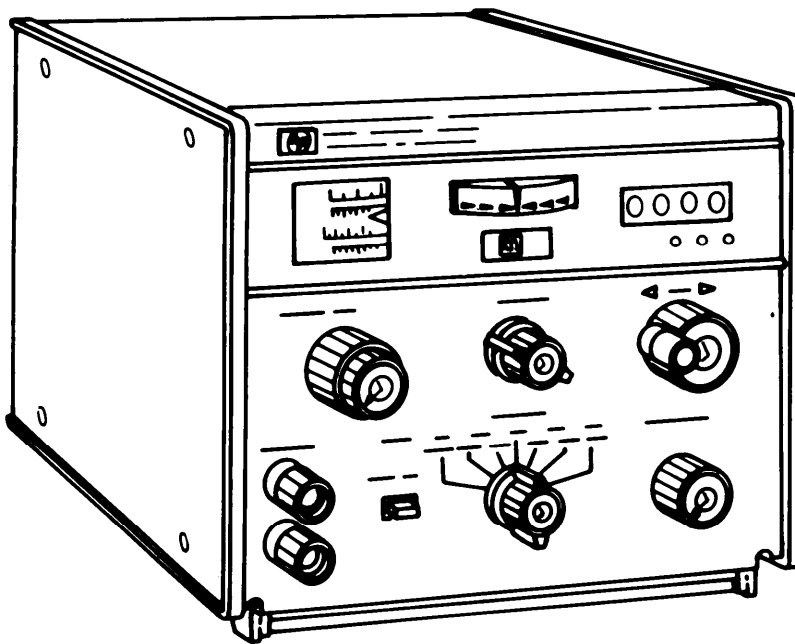


TM11-6625-3077-14

TECHNICAL MANUAL

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



**IMPEDANCE BRIDGE
ZM-71A/U
(NSN 6625-00-236-1536)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

JUNE 1984

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HOW TO USE THIS MANUAL

This manual tells you about your Impedance Bridge ZM-71A/U and contains instructions about how to use it during maintenance on other electronic equipment.

The technical manual for the electronic equipment you are maintaining will tell you where to make certain connections and when to use various accessories which are part of the ZM-71A/U.

When you first receive your ZM-71A/U, start at the front of the manual and go all the way through to the back. Become familiar with every part of the manual and the ZM-71A/U.

This manual has an edge index which will help you find specific information in a hurry. Simply spread the pages on the right edge of the manual until the printed blocks can be seen. Open the manual where the block on the edge of the page lines up with your selected topic printed on the front cover block.

Technical Manual

No. 11-6625-3077-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 8 June, 1984

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

FOR

IMPEDANCE BRIDGE

ZM-71A/U

(NSN 6625-00-236-1536)

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-PCF, Fort Monmouth, New Jersey 07703.

A reply will be furnished to you.

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CHAPTER 1

INTRODUCTION

SECTION I. GENERAL INFORMATION

1-1. SCOPE.

This manual describes Impedance Bridge ZM-71A/U (fig. 1-1) and provides operation and maintenance instructions. The ZM-71A/U is designed to make fast, easy measurements of resistance (R), capacitance (C), inductance (L), capacitor dissipation factor (D), or inductance quality factor (Q).

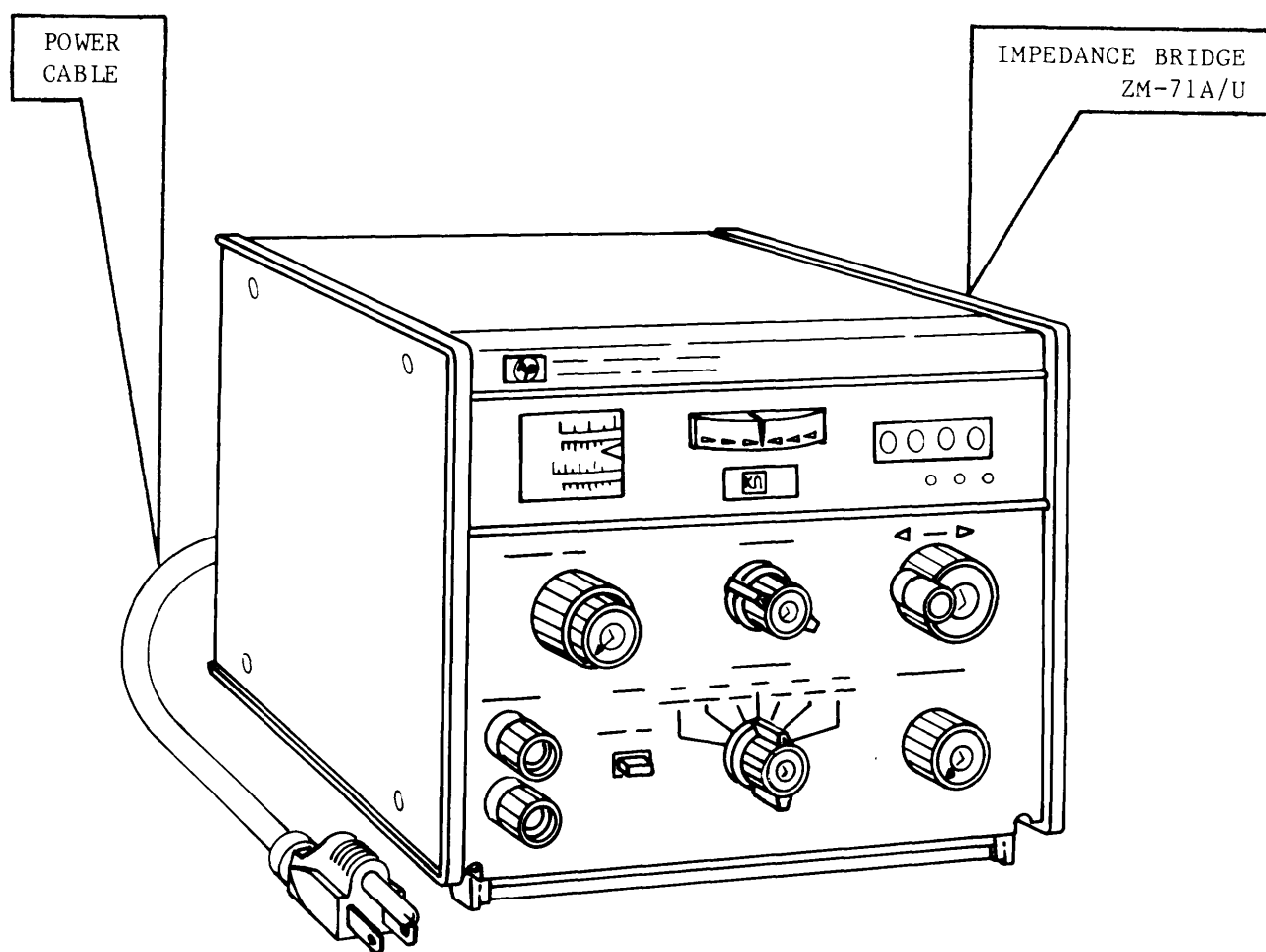


Figure 1-1. Impedance Bridge ZM-71A/U, front view.

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 editions, changes, or additional publications pertaining to the equipment.

1-3. MAINTENANCE FORMS, RECORDS AND REPORTS.

a. Report of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750 as contained in Maintenance Management Update.

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/NAVMATINST 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.

Refer to TM 740-90-1 for administrative storage procedures.

1-5. DESTRUCTION OF ARMY ELECTRONICS MATERIEL.

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

1-6. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).

If your ZM-71A/U needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Quality Deficiency Report (SF 368)). Mail it to us at Commander , US Army Communications-Electronics Command, and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth NJ 07703. We'll send you a reply.

1-7. WARRANTY INFORMATION.

The ZM-71A/U is warranted by Hewlett-Packard Company for one year. Report all defects in material or workmanship to your supervisor who will take appropriate action through your organizational maintenance shop. It starts on the date, found in block 23, DA form 2408-9, in the log book.

1-8. LIST OF ABBREVIATIONS.

AR is Army Regulation
C is capacitance
D is capacitor dissipation factor
DA is Department of the Army
F is farads
H is henrys
I is inductance
K is Kilo (+3)
mV is millivolts