

TM 11-6625-2981-14

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT

AND GENERAL SUPPORT MAINTENANCE MANUAL

OHMMETER

AN/PSM-43

INCLUDING

ZM-21C/U

This copy is a reprint which includes current
pages from Change 1.

HEADQUARTERS, DEPARTMENT OF THE ARMY
25 JUNE 1980

TECHNICAL MANUAL }
 No. 11-66252981-14 }

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON D.C., 25 June 1980

OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT, AND
 GENERAL SUPPORT MAINTENANCE MANUAL
 OHMMETER AN/PSM-43
 (NSN 6625-01-102-0052)
 Including ZM-21C/U

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 back of this manual direct to: Commander, US Army Communications — Electronics Command, ATTN: DRSEL-ME-MO, Fort Monmouth, NJ 07703. In either case, a reply will be furnished to you.

		Paragraph	Page
Chapter 0	INTRODUCTION		
	Scope	0-1	0-1
	Index of technical publications	0-2	0-1
	Maintenance forms, records, and reports	0-3	0-1
	Administrative storage	0-4	0-1
	Destruction of army electronics materiel	0-5	0-1
	Reporting equipment improvement recommendations (EIR)	0-6	0-1
Chapter 1	GENERAL INFORMATION AND SAFETY PRECAUTIONS		
	Safety precautions	1-1	1-1
	Introduction	1-2	1-1
	Equipment description	1-3	1-1
	Relationship of units	1-4	1-1
	Reference data	1-5	1-1
	Equipment, accessories and documents supplied	1-6	1-1
Chapter 2	OPERATION		
	Introduction	2-1	2-1
	Service upon receipt	2-2	2-1
	Controls and indicators	2-3	2-1
	Operating procedures	2-4	2-2
	Procedures for setting controls prior to turn-on	2-5	2-2
	Procedures for determining operational readiness and acceptable indication	2-6	2-2
	Operator's checks and adjustments	2-7	2-2
	Operator's maintenance actions and schedules	2-8	2-2
Chapter 3	FUNCTIONAL DESCRIPTION		
	Overall description	3-1	3-1
	Major functional and circuit description	3-2	3-1

This manual is an authentication of the manufacturer's commercial literature. The manual was not prepared in accordance with military specifications; therefore, the format has not been structured to consider categories of maintenance.

	<i>Paragraph</i>	<i>Page</i>
Chapter 4	SCHEDULED MAINTENANCE	
	Introduction	4-1 4-1
	Scheduled maintenance	4-2 4-1
	Cleaning	4-3 4-1
	Lubrication	4-4 4-2
	Performance test	4-5 4-3
Appendix A.	REFERENCES	A-1
Appendix B.	COMPONENTS OF END ITEM LIST	
Section I.	Introduction	B-1
II.	Integral Components of End Item	B-2
III.	Basic Issue Items (Not Applicable)	
Appendix D.	MAINTENANCE ALLOCATION	
Section I.	Introduction	D-1
II.	Maintenance Allocation Chart for Ohmmeter	
	AN/PSM-43	D-4
III.	Tool and Test Equipment Requirements for	
	Ohmmeter AN/PSM-43	D-5

LIST OF ILLUSTRATIONS

<i>Number</i>	<i>Title</i>	<i>Page</i>
1-1.	Ohmmeter AN/PSM-43	1-0
2-1.	Packaging Diagram	2-1
2-2.	Controls and Indicators	2-2
3-1.	Functional Block Diagram	3-1
3-2.	Schematic Diagram	3-1
4-1.	Lubrication Points	4-2

LIST OF TABLES

<i>Number</i>	<i>Title</i>	<i>Page</i>
1-1.	Reference Data	1-1
1-2.	Equipment and Documents Supplied	1-2
2-1	Controls and Indicators	2-1
4-1.	Scheduled Maintenance Action Index	4-1
4-2.	Test Equipment	4-1

CHAPTER 0 INTRODUCTION

0-1. Scope.

This manual contains instructions for the operation, organizational maintenance, and general support maintenance of Ohmmeter AN/PSM-43 hereinafter referred to as the ohmmeter.

0-2. Index of Technical Publications.

Refer to latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

0-3. Maintenance Forms, Records, and Reports.

a. *Reports of Maintenance and Unsatisfactory Equipment.* Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System.

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 4355.73/AFR 400-54/MCO 4430.3E.

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

0-4. ADMINISTRATIVE STORAGE.

Before placing the ohmmeter in temporary (90 days) storage, determine the serviceability of the equipment by performing the operational check procedures described in paragraph 2-2c.

0-5. Destruction of Army Electronics Materiel.

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

0-6. Reporting Equipment Improvement Recommendations (EIR).

If your ohmmeter 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. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications-Electronics Command, ATTN: DRSEL-ME-MQ, Form Monmouth, NJ 07703. We'll send you a reply.

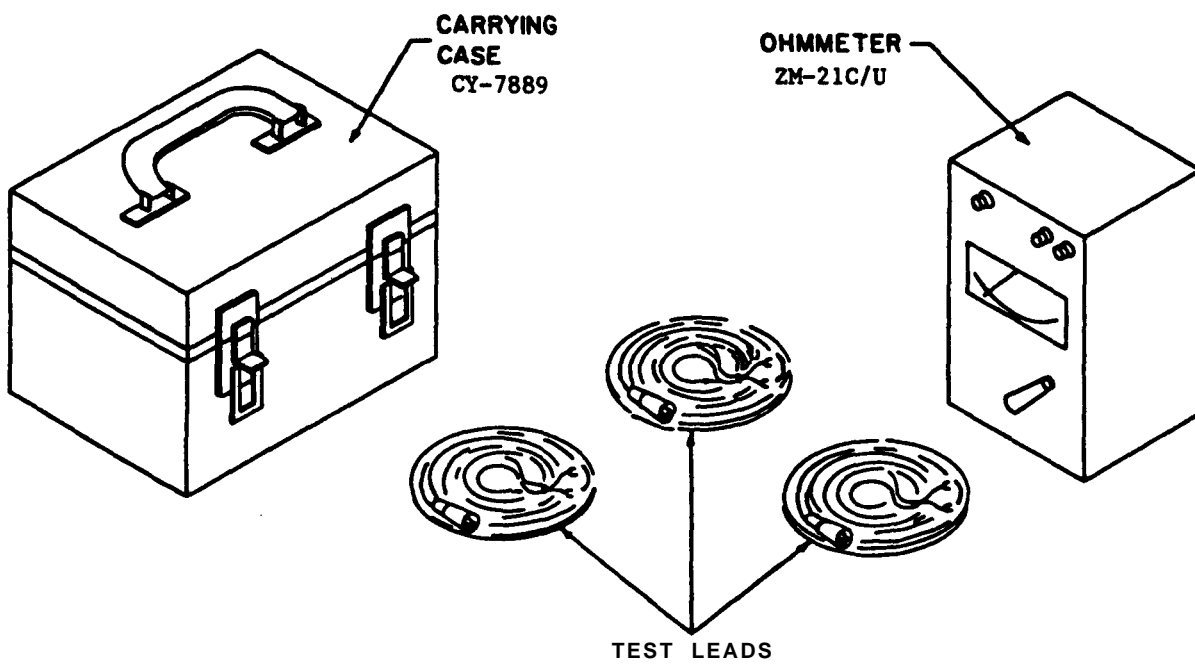


Figure 1-1. Ohmmeter AN/PSM-43

EL6TW001