

TECHNICAL MANUAL

**OPERATOR'S AND ORGANIZATIONAL
MAINTENANCE MANUAL**

**HOW TO USE
THIS MANUAL
PAGE iii**

**DESCRIPTION
AND DATA
PAGE 1-2**

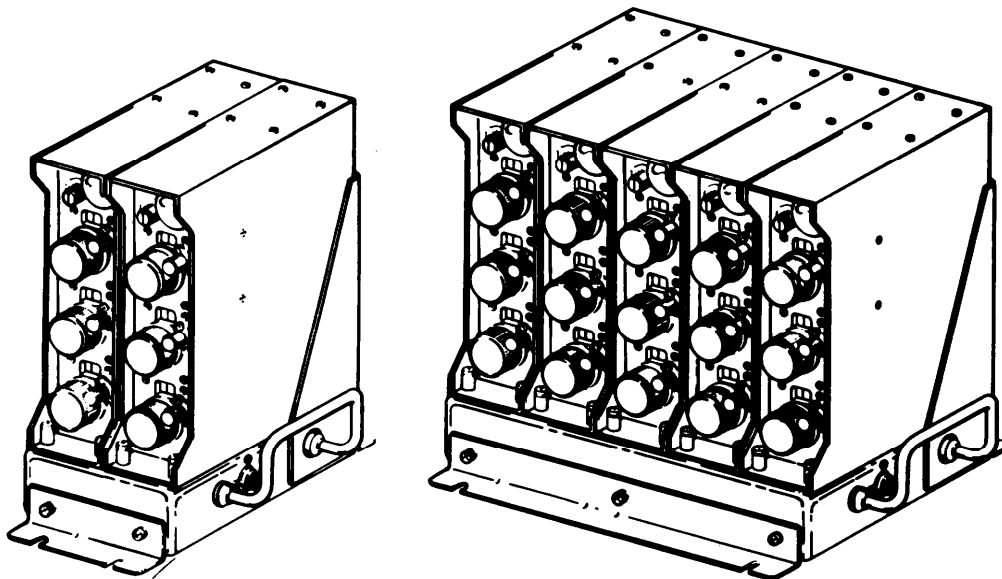
**OPERATOR'S
CONTROLS,
INDICATOR
AND CONNECTORS
PAGE 2-1**

**OPERATOR'S
PREVENTIVE
MAINTENANCE
PAGE 3-1**

**TROUBLESHOOTING
PAGE 4-9**

**ORGANIZATIONAL
MAINTENANCE
PROCEDURES
PAGE 4-10**

**MAINTENANCE
ALLOCATION
CHART
PAGE B-0**



**2-CHANNEL MULTIPLEXER TD-1288()/GRC
(NSN 5820-01-090-1414)**

AND

**5-CHANNEL MULTIPLEXER TD-1289()(V)/GRC
(NSN 5820-01-090-5407)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

24 AUGUST 1983

TECHNICAL MANUAL
No. 11-5820-880-12

HEADQUARTERS
DEPARTMENT OF THE ARMY

Washington, DC, 24 August 1983

OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL

2-CHANNEL MULTIPLEXER TD-1288()/GRC
(NSN 5820-01-090-1414)
AND
5-CHANNEL MULTIPLEXER TD-1289()/GRC
(NSN 5820-01-090-5407)

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 and Fort Monmouth, ATTN: DRSEL-ME-MP Fort Monmouth, New Jersey 07703. A reply will be furnished to you.

		Page
	HOW TO USE THIS MANUAL	ii
CHAPTER 1	INTRODUCTION	
Section I	General Information	1-1
	II Description and Data	1-2
	III Principles of Operation	1-9
CHAPTER 2	OPERATING INSTRUCTIONS	
Section I	Description and Use of Operator's Controls, Indicators, and Connectors	2-1
	II Operation Under Usual Conditions.	2-5
	III Operation Under Unusual Conditions	2-16

CHAPTER	3	OPERATOR'S MAINTENANCE INSTRUCTIONS	
Section	I	Introduction	3-1
	II	Lubrication	3-1
	III	Operator's Preventive Maintenance	3-1
	IV	Troubleshooting	3-5
CHAPTER	4	ORGANIZATIONAL MAINTENANCE INSTRUCTIONS	
Section	I	Introduction	4-1
	II	Repair Parts, Tools, and Test Equipment	4-1
	III	Service Upon Receipt	4-2
	IV	Installation Instructions	4-3
	V	Organizational Preventive Maintenance	4-7
	VI	Troubleshooting	4-9
	VII	Maintenance Procedures	4-10
APPENDIX	A.	REFERENCES	
	B.	MAINTENANCE ALLOCATION	
Section	I	Introduction	B-0
	II	Maintenance Allocation Chart for Multiplexer TD-1288()/GRC. .	B-3
	III	Maintenance Allocation Chart for Multiplexer TD-1289()	
		(V)/GRC	B-4
	IV	Tool and Test Equipment Requirements for Multiplexer TD-1288	
		()/GRC and TD-1289()(V)/GRC	B-5
	V	Remarks	B-8
APPENDIX	C.	COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LIST	
Section	I	Introduction	C-1
	II	Integral Components of End Item for TD-1288()/GRC	C-2
	III	integral Components of End Item for TD-1289()(V)/GRC	C-3
APPENDIX	D.	ADDITIONAL AUTHORIZATION LIST (Not applicable)	
	E.	EXPENDABLE SUPPLIES AND MATERIALS LIST	
Section	I	Introduction	E-1
	II	Expendable Supplies and Materials	E-2

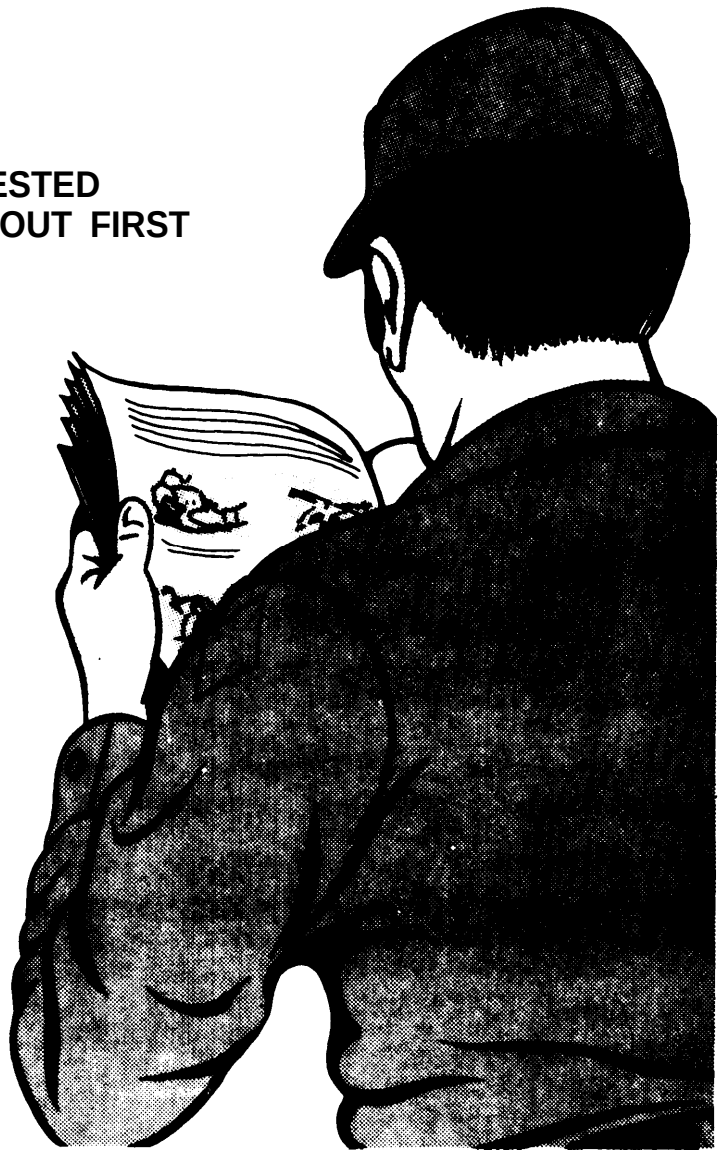
HOW TO USE THIS MANUAL

The front cover index will assist you in quickly locating information. It identifies information frequently used by the operator. Each item appearing on the front cover is boxed and identified by topic with the page number in the manual where the information is located. The page in the manual used in conjunction with the front cover has a black box on the edge of the page. Bend the manual in half and follow the margin index to the page with the black edge marker.

Entries within the table of contents which duplicate the entries on the front cover index are highlighted with a box.

**NO ONE EVER REPAIRED OR TESTED
ELECTRONIC EQUIPMENT WITHOUT FIRST
READING THE OPERATION AND
MAINTENANCE MANUAL.**

**IT IS THE MOST
IMPORTANT TOOL
YOU HAVE !!!**



CHAPTER 1

INTRODUCTION

SECTION I

GENERAL INFORMATION

1.1 SCOPE.

This manual provides operator's and organizational maintenance instructions for the 2-Channel Multiplexer TD-1288 ()/GRC and the 5-Channel Multiplexer TD-1289 ()(V)/GRC. The 2-channel and the 5-channel multiplexer are primarily used with the RT-524/VRC and the RT-246/VRC which are components of the AN/VRC-12 radio family.

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. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those described 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 4610.33 B/AFR 75-18/MCO P4610.19C/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 in accordance with TM 750-244-2.