

**TM 11-6625-3041-12
TO 33A1-8-908-1**

**OPERATOR'S AND
ORGANIZATIONAL MAINTENANCE
MANUAL**

**EQUIPMENT
DESCRIPTION**
Page 1-6

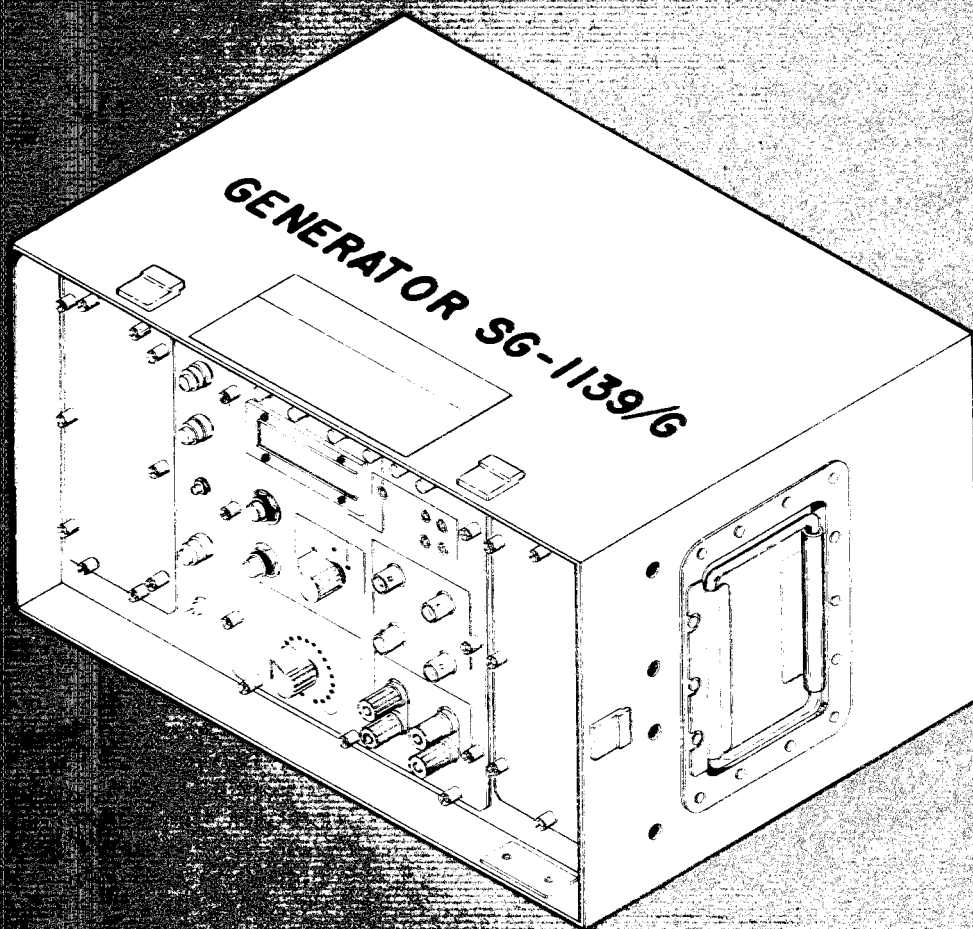
**CONTROLS
AND INDICATORS**
Page 2-2

SELF-TEST
Page 2-10

TESTING
Page 2-17

**PREVENTIVE
MAINTENANCE**
Page 3-10

TROUBLESHOOTING
Page 3-13



**DIGITAL DATA GENERATOR
SG-1139/G
(TM 11-6625-01-100-2040)**

**DEPARTMENTS OF THE ARMY AND THE AIR FORCE
7 FEBRUARY 1965**

TECHNICAL MANUAL
 TM 11-6625-3041-12
 Technical Order
 TO 33A1-8-908-1

DEPARTMENTS OF THE ARMY AND THE AIR FORCE
 Washington, DC, 7 February 1985

**OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL
 DIGITAL DATA GENERATOR SG-1139/G
 (NSN 6625-01-136-2046)**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENT

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 the manual direct to: Commander, US Army Communications - Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-MP, Fort Monmouth, New Jersey 07703-5007.

For Air Force submit AFTO Form 22 (Technical Order System Publication Improvement Report and Reply) in accordance with paragraph 6-5, Section VI, T.O. 00-5-1. Forward direct to prime ALC/MST.

In either case, a reply will be furnished direct to you.

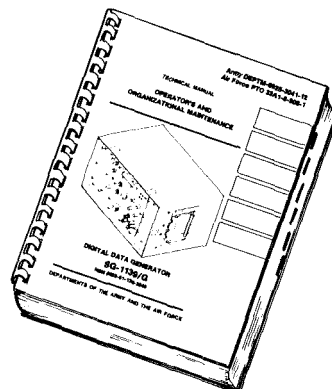
OVERALL CONTENTS	<u>Page</u>
How to Use This Manual	iii
Chapter 1 INTRODUCTION	
Section I General Information	1-2
II Equipment Description	1-6
III Technical Principles of Operation	1-13
Chapter 2 OPERATING INSTRUCTIONS	
Section I Description of Controls and Indicators	2-2
II Preventive Maintenance Checks and Services	2-7
III Operation Under Usual Conditions	2-7
Self-Test	2-10
Testing	2-17
IV Operation Under Unusual Conditions	2-35
Chapter 3 ORGANIZATIONAL MAINTENANCE	
Section I Repair Parts, Special Tools, TMDE, and Support Equipment ..	3-2
II Service Upon Receipt	3-3
III Preventive Maintenance Checks and Services	3-10
IV Troubleshooting	3-13
V Maintenance Procedures	3-42
VI Preparation for Storage or Shipment	3-48

Appendix A	References	A-1
B	Maintenance Allocation Chart	B-1
C	Components of End Item List	C-1
D	Additional Authorization List	D-1
E	Expendable Supplies and Materials List	E-1
Glossary		Gloss-1
Index		Index-1

HOW TO USE THIS MANUAL

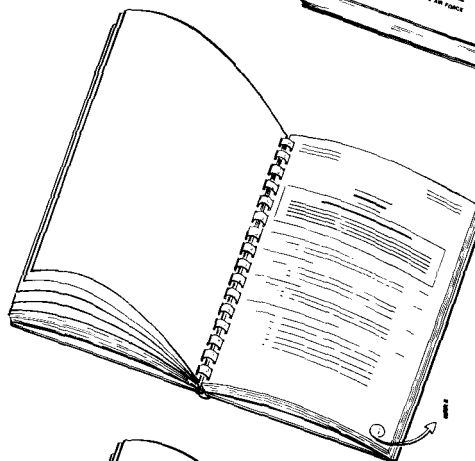
Major Subjects

Major subjects are listed on the right side of the front cover and by pages edgemarked in black.



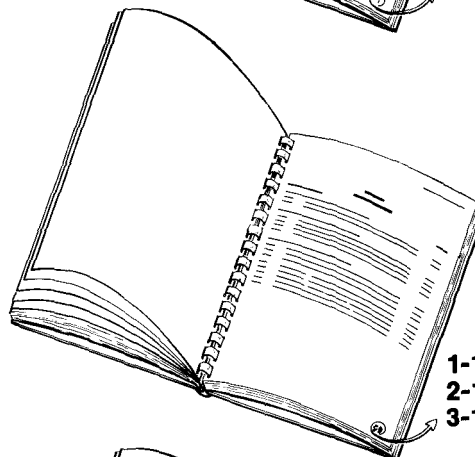
Chapters and Sections

Chapters and sections within the chapters are listed in the overall contents on page i.



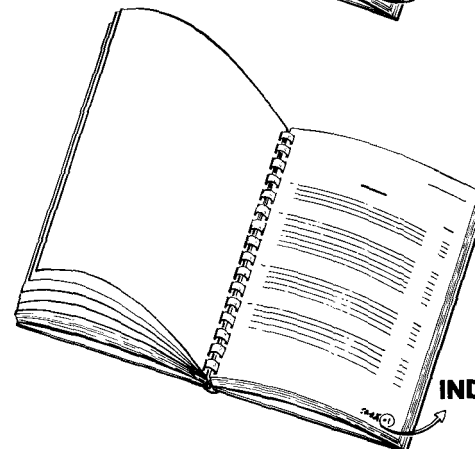
Primary Paragraphs

Primary paragraphs (bold-faced headings) for each chapter are listed in the chapter contents at the start of each chapter. Chapters always start on a right-hand page.



Index

An alphabetical index of all subjects starts on page INDEX-1 in the back of the manual.



Chapter 1

INTRODUCTION

CHAPTER CONTENTS

Page

Section I General Information

1-1	Scope	1-2
1-2	Maintenance Forms, Records, and Reports	1-3
1-3	Consolidated Index of Army Publications and Blank Forms	1-3
1-4	Destruction of Army Electronics Materiel to Prevent Enemy Use	1-3
1-5	Reporting Equipment Improvement Recommendations (E I R)	1-4
1-6	Administrative Storage	1-4
1-7	Preparation for Storage or Shipment	1-4
1-8	Nomenclature Cross-Reference List	1-4
1-9	List of Abbreviations	1-5

Section II Equipment Description

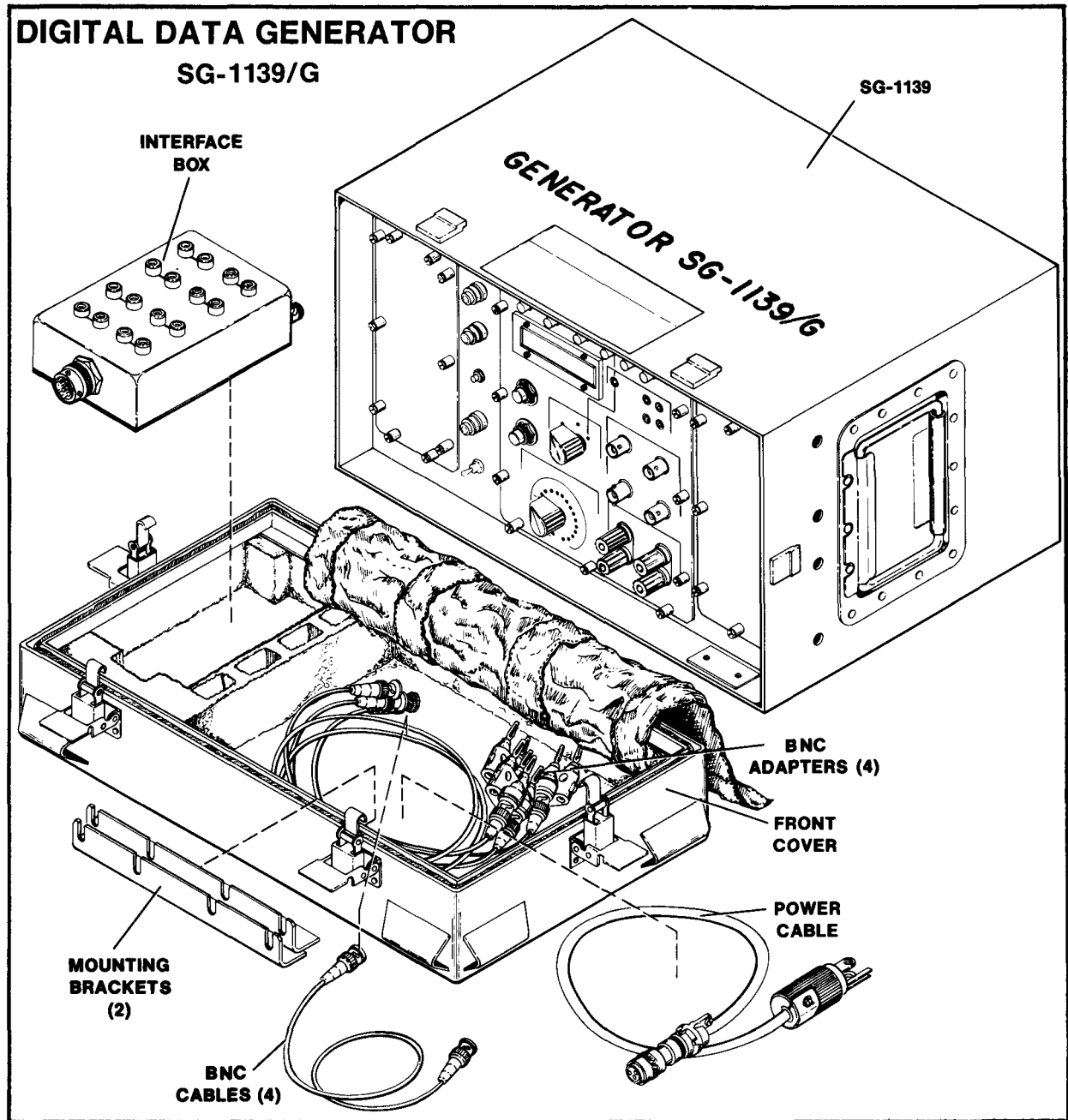
1-10	Equipment Characteristics, Capabilities, and Features	1-6
1-11	Location and Description of Major External Components	1-7
1-12	Location and Description of Major Internal Components	1-8
1-13	Difference Between Models	1-9
1-14	Equipment Data	1-9

Section III Technical Principles of Operation

1-15	Overview	1-13
1-16	Input/Output	1-14
1-17	Pattern Generation	1-18
1-18	Error Detection	1-18

Section I

GENERAL INFORMATION



1-1. SCOPE

This manual is for your use in operating and maintaining the Digital Data Generator SG-1139/G (common name SG-1139). It contains detailed descriptive, operation, application, and organizational maintenance information.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS

Army Reports 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.

Report of Packaging and Handling Deficiencies: Fill out and forward SF 364, Report of Discrepancy (ROD), as prescribed in AR 735-11-2.

Discrepancy in Shipment Report (DISREP): Fill out and forward SF 361, Discrepancy in Shipment Report (DISREP), as prescribed in AR 55-38.

Air Force Reports of Maintenance and Unsatisfactory Equipment: Air Force personnel will use AFR 66-1 for maintenance reporting and TO 00-35D54 for unsatisfactory equipment reporting.

Report of Packaging and Handling Deficiencies: Fill out and forward SF 364, Report of Discrepancy (ROD), as prescribed in AFR 400-54.

Discrepancy in Shipment Report (DISREP): Fill out and forward SF 361, Discrepancy in Shipment Report (DISREP), as prescribed in AFR 75-18.

1-3. 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, forms, or additional publications pertaining to the equipment.

1-4. DESTRUCTION OF ARMY ELECTRONICS MATERIEL TO PREVENT ENEMY USE

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2, Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command).