

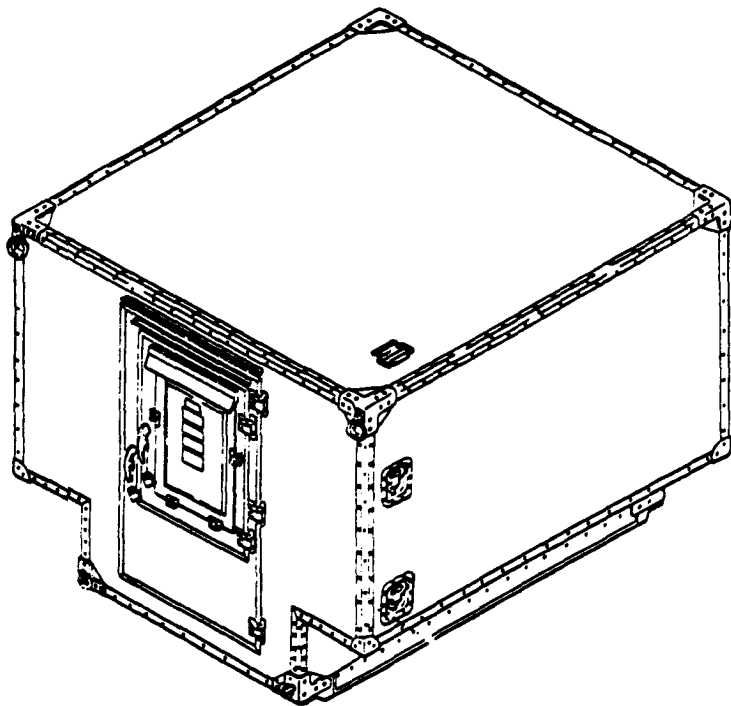
TECHNICAL MANUAL

**OPERATOR'S, UNIT,
AND DIRECT SUPPORT
MAINTENANCE MANUAL
FOR**

**SHELTER, ELECTRICAL
EQUIPMENT**

**S-250/G (UNSHIELDED)
(NSN 5411-00-999-4935)**

**S-250/G (SHIELDED)
(NSN 5411-00-489-6076)**



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

This Manual Supersedes TM 10-5411-205-14 dated 9 January 1989.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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DEPARTMENT OF THE ARMY
Washington, DC 5 May 1990

Operator's, Unit, and Direct Support Maintenance Manual
for
SHELTER, ELECTRICAL EQUIPMENT
S-250/G (Unshielded) (NSN 5411-00-999-4935)
S-250/G (Shielded) (NSN 5411-00-489-6076)

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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: US Army Troop Support coremand, ATTN: AMSTR-MCTS, 4300 Goodfellow Blvd., St. Louis, MO, 63120-1798. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

This manual was prepared to help keep your S-250/G Unshielded and S-250/G Shielded shelters in good operating condition. The front cover index is provided for quick reference to important information. There is also an alphabetical index at the back of the manual to locate specific items of information.

Warning pages are located at the front of this manual. You should read and completely understand all of the warnings before performing any maintenance on the equipment.

Paragraphs in this manual are numbered by chapter and order of appearance within a chapter. A subject index appears at the beginning of each chapter listing sections that are included in that chapter. A more specific subject index is located at the beginning of each section to help you find the exact paragraph you are looking for.

CHAPTER 1

INTRODUCTION

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Section I. GENERAL INFORMATION

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1-1. Scope.

a. Type of Manual. This technical manual includes operator, unit and direct support maintenance procedures for the S-250/G Unshielded and S-250/G Shielded shelters. Additional maintenance data relevant to a specifically configured shelter can be found in the applicable end item technical manual.

b. Equipment Name and Model Number. This technical manual covers Electrical Equipment Shelter S-250/G Unshielded and S-250/G Shielded. The S-250/G Shielded shelter is equipped with radio frequency/electromagnetic interference shielding.

c. Purpose of Equipment. The S-250/G Unshielded and S-250/G Shielded are light-weight transportable shelters designed to house a wide variety of military systems and components.

1-2. Maintenance Forms and Records. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, The Army Maintenance Management System (TAMMS).

1-3. Reporting Equipment Improvement Recommendations (EIR). If your shelter 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). Mail it to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MDO, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. We'll send you a reply.

1-4. Destruction of Army Materiel to Prevent Enemy Use. Destruction of Army equipment to prevent enemy use shall be in accordance with TM 750-244-3.

1-5. Preparation for Shipment and Storage. Refer to paragraph 3-37 for shipment and storage preparation data. Administrative storage requirements will be in accordance with the following:

- a. Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exists. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority. During the storage period appropriate maintenance records will be kept.
- b. Before placing equipment in administrative storage, current maintenance services and equipment serviceable criteria (ESC) evaluations should be completed, shortcomings and deficiencies should be corrected, and all modification work orders (MWO's) should be applied.
- c . Storage Site Selection. Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks, vans, conex containers and other containers may be used.

1-6. Warranty Information. The S-250/G Unshielded and S-250/G Shielded shelters are warranted by Gichner Shelter Systems or Ramim Engineering Works, Ltd. for 24 months. Warranty starts on the date found on DA Form 2408-9 (Equipment Control Record) in the logbook. Report all defects in material or workmanship to your supervisor who will take appropriate action. Refer to Warranty Technical Bulletin TB 10-5411-205-23 (Gichner) or TB 10-5411-205-23-1 (Ramim).

1-7. List of Abbreviations.

EMI	Electromagnetic Interference
R F I	Radio Frequency Interference
RTV	Room Temperature Vulcanizing
TMDE	Test, Measurement, and Diagnostic Equipment

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Equipment Data	1-10	1-3
Shelter Marking	1-11	1-4
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1-8. Equipment Characteristics, Capabilities, and Features. The S-250/G Unshielded and S-250/G Shielded shelters are lightweight, relocatable shelters used to transport and house various types of equipment. The foam and beam shelter construction consists of aluminum face sheets enclosing a polyurethane foam composition core. The shelters are designed for outdoor use in all weather conditions. The shielded shelters are equipped with radio frequency/electromagnetic interference (RFI/EMI) shielding to protect the electronic equipment contained inside. The shield is a continuous metallic surface which includes the shelter panel outer face sheets and conductive materials which maintain continuity around joints, door openings, and other possible sources of radiation leak. Shielded shelters also have a RFI/EMI filter inside the inner (emergency) door. Shielded shelters can be identified by the metallic door gasket which mates with another conductive surface on the door jamb.

1-9. Location and Description of Major Components. (Figure 1-1)

ITEM	DESCRIPTION
1. Door assembly	Provides personnel access to interior of shelter.
2. Inner (emergency) door assembly	Provides emergency personnel exit and allows fresh air to enter shelter through an air vent with filter. The shielded shelters are provided with an RFI/EMI filter.
3. Lifting bracket assembly	Provides hookup point for sling assembly when lifting shelter and when securing shelter onto truck.
4. Towing bracket assembly	Provides hookup point for guide rope when guiding sling-lifted shelter into position and when securing shelter onto truck.
5. Recessed step pan assembly	Allows access to roof.
6. Skid assemblies	Permit a fully equipped shelter to be seated on rough terrain. They also provide forklifting access.

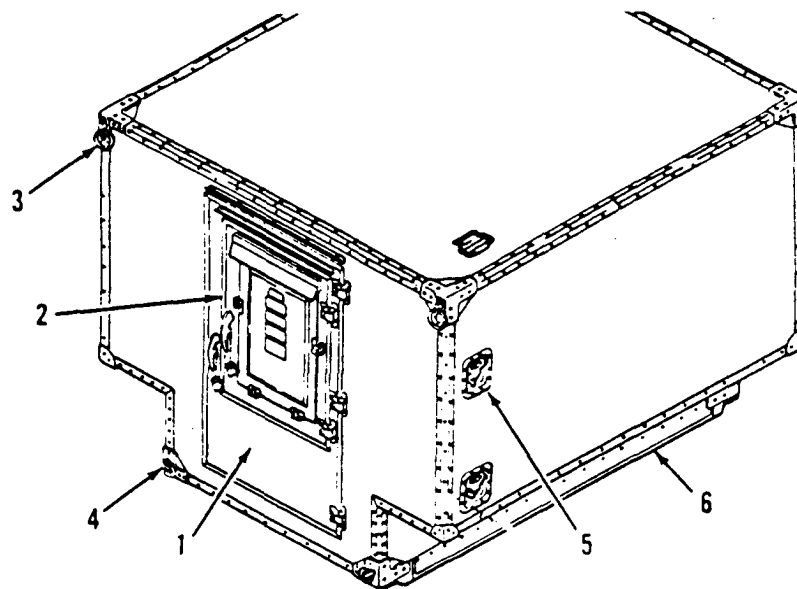


Figure 1-1. Major Shelter Components.

1-10. Equipment Data.

Height	70.125 in (178.11 cm)
Width	79.0625 in (200.82 cm)
Length	86.625 in (220.03 cm)
Gross weight	Shield 770 lb (349 kg) empty Unshielded 782 lb (355 kg) fully loaded
Cubage	273 ft ³ (6.93 m ³)
Load on skids	Empty 1.8 psi Fully loaded 6.2 psi