

TM 9-4120-425-14&P

TECHNICAL MANUAL

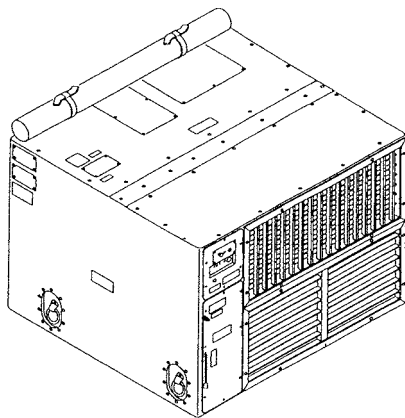
**OPERATOR'S, UNIT,
DIRECT SUPPORT AND
GENERAL SUPPORT
MAINTENANCE MANUAL**

**INCLUDING REPAIR PARTS
AND SPECIAL TOOLS LIST**

FOR

**AIR CONDITIONER,
HORIZONTAL, COMPACT,
36,000 BTU/HR,
208 VOLT,
THREE PHASE,
50/60 HERTZ**

**PART NO. S9500-36KH-1
NSN 4120-01-467-2638**



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**HEADQUARTERS, DEPARTMENT OF THE ARMY
1 OCTOBER 2002**

**OPERATOR'S, UNIT, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE MANUAL
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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 back of this manual direct to: Commander, U.S. Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-LC-LEO-D-CS-CFO, Fort Monmouth, New Jersey 07703-5006. The fax number is 732-532-1413, DSN 992-1413. You may also e-mail your recommendations to AMSEL-LC-LEO-PUBS-CHG@mail1.monmouth.army.mil. In any case we will send you a reply.

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CHAPTER 1

**INTRODUCTION INFORMATION WITH
THEORY OF OPERATION**

**AIR CONDITIONER, COMPACT, HORIZONTAL,
GENERAL INFORMATION**

0001-00

SCOPE

a. Type of Manual: Operator, Unit, Direct and General Support Maintenance Including Repair Parts and Special Tools List.

b. Part Number and Equipment Names: S9500-36KH-1
Air Conditioner, Compact, Horizontal, 36,000 BTU/HR, 208 Volt, Three Phase, 50/60 Hertz.

c. Purpose of Equipment: The air conditioner is used primarily in van type enclosures to provide filtered, cooled or heated air, as required to maintain the service conditions necessary for the efficient operation of electronic equipment in the vans. The air conditioner also provides for the comfort of operating personnel housed within the vans.

CONSOLIDATED INDEX OF ARMY PUBLICATIONS AND BLANK FORMS

Refer to the latest issue of DA PAM 25-30 to determine whether there are new additions, changes, or additional publications pertaining to the equipment.

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 DA PAM 738-750, as contained in Maintenance Management Update.

b. Reporting of Item and Packaging Discrepancies. Fill out and forward SF 364 (Supply Discrepancy Report (SDR)) as prescribed in AR 735-11-2/DLAR 4140.55/SECNAVINST 4355.18/AFR 400-54/MCO 4430.3J.

c. Transportation Discrepancy Report (TDR) (SF 361). Fill out and forward Transportation Discrepancy Report (TDR) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

DESTRUCTION OF ARMY ELECTRONICS MATERIAL

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

ADMINISTRATIVE STORAGE

Administrative storage of equipment issued to and used by Army activities will have Preventive Maintenance Checks and Services (PMCS) performed before storing. When removing the equipment from administrative storage, the PMCS checks should be performed to assure operational readiness.

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your 36K air conditioner 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 (Product Quality Deficiency Report). Mail it to: Commander, US Army Communications-Electronics Command, Fort Monmouth, New Jersey 07703-5006, ATTN: AMSEL-LC-LEO-D-CS-CFO. We'll send you a reply.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

**AIR CONDITIONER, COMPACT, HORIZONTAL,
GENERAL INFORMATION - Continued**

0001-00

CORROSION PREVENTION AND CONTROL (CPC) - Continued

If a corrosion problem is identified, it can be reported using SF 368, Product Quality Deficiency Report. Use of key words such as "corrosion," "rust," "deterioration," or "cracking" will ensure that the information is identified as a CPC problem.

The form should be submitted to the address specified in DA PAM 738-750, Functional Users Manual for the Army Maintenance Management System (TAMMS).

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Refer to TM 750-244-3, Procedures for Destruction of Equipment to Prevent Enemy Use, for information about destruction.

PREPARATION FOR STORAGE AND SHIPMENT**Short Term Storage**

1. Disconnect power supply and remove from shelter.
2. Make sure unit is clean and dry.
3. Close all louvers and grilles.
4. Unroll canvas cover and snap into place.
5. Store in the operating (upright) position.

Long Term Storage

1. Disconnect power supply and remove from shelter.
2. Make sure unit is clean and dry. Blow-out condensate drains.
3. Close all louvers and grilles.
4. Unroll canvas cover and snap into place.
5. Package all hardware, cable connectors, technical manuals, etc. in a cushioned protective sack. Staple shut and secure to unit.

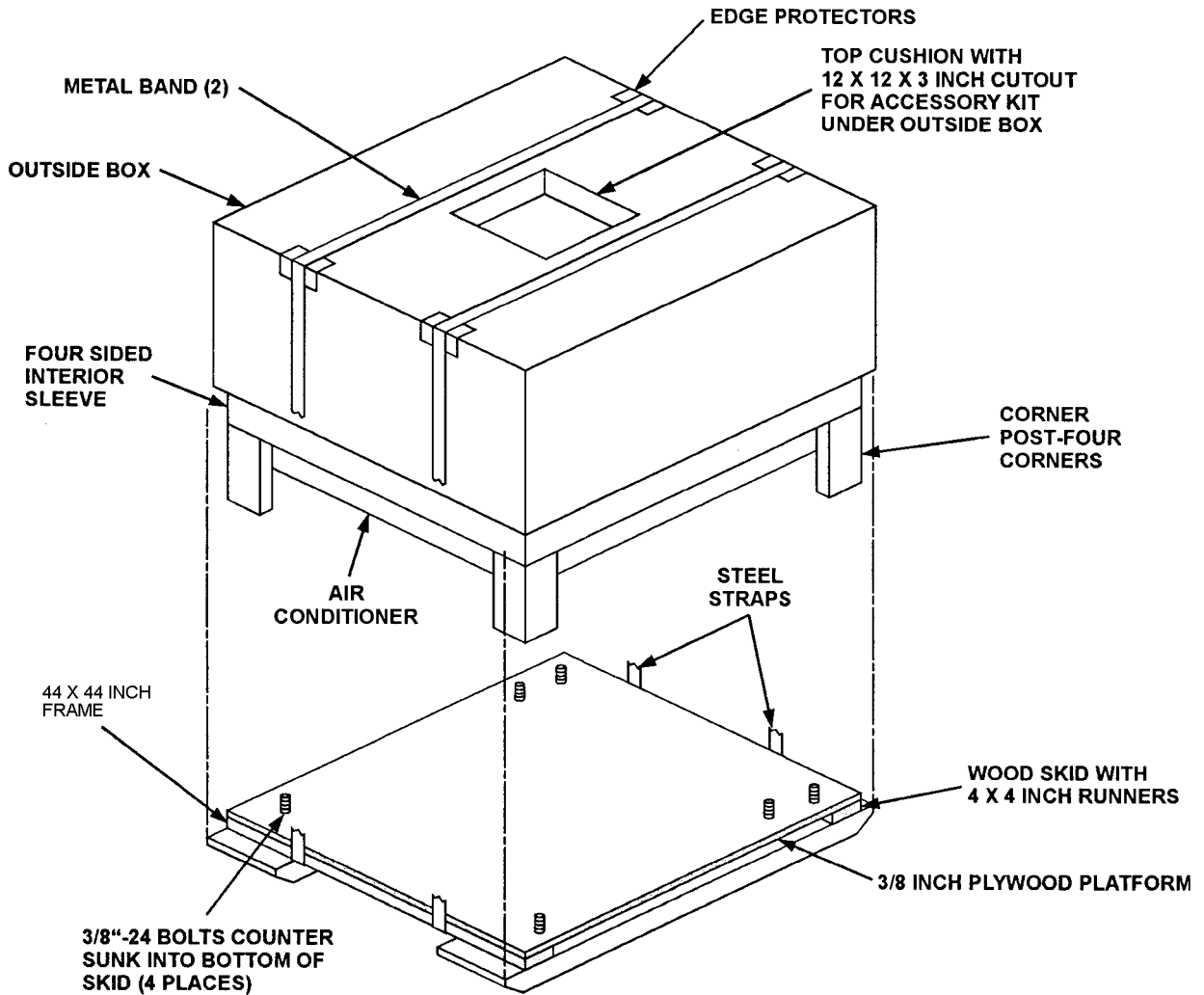
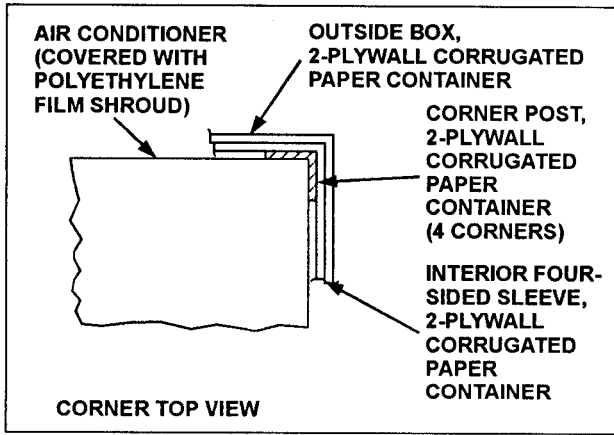
NOTE

Wrap cable connectors in cushioning material before packaging.

6. Seal all openings with polyethylene film and 1/2 inch pressure sensitive tape.
7. Cover the entire unit with a polyethylene film shroud and secure with 1/2 inch pressure sensitive tape.
8. Store air conditioner in a dry, dust-free space and in the operating (upright) position.
9. Storage of the air conditioner will be in accordance with TM 740-90-1, Administrative Storage of Equipment.

**AIR CONDITIONER, COMPACT, HORIZONTAL,
GENERAL INFORMATION - Continued**

0001-00



PACKING MATERIAL: 2 PLYWALL CORRUGATED PAPER
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