

**TECHNICAL MANUAL**

**ORGANIZATIONAL, DIRECT AND  
GENERAL SUPPORT REPAIR PARTS AND  
SPECIAL TOOLS LIST  
FOR  
AIR CONDITIONER, VERTICAL COMPACT,  
9,000 BTU/HR, 208 VOLTS, 3-PHASE, 50/60 HZ  
(TIERNAY MODEL TM-9KV-208-3-60)  
NSN 4120-01-091-9672**

**HEADQUARTERS, DEPARTMENT OF THE ARMY  
18 DECEMBER 1981**

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TECHNICAL

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DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 18 December 1981

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**TIERNAY MODEL TM-9KV-208-3-60 NSN 4120-01-091-9672  
KECO MODEL F9000T3-2 NSN 4120-01-264-6295**

**Current as of 25 August 1981**

**REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

You can help improve this manual. If you find any mistake 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: Commander, U.S. Army Troop Support Command, ATTN: AMSTR-MCT S, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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**Change 1 i/ii (blank)**

**SECTION I. INTRODUCTION**

**1. Scope.**

This manual lists repair parts, special tools, test, measurement, and diagnostic equipment (TMDE), and other support equipment required for operation and performance of organizational, Direct and General Support maintenance of Air Conditioner, Vertical Compact, 9,000 BTU/HR, 208 volts, 3-phase, 5-/60 Hz.

**2. General**

**a. Section II-Repairs Parts List.** A list of repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numerical sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in NSN sequence, as the last group in Section 11.

**b. Section III - Special Tools List.** Not applicable.

**c. Section IV National Stock Number and Part Number Index.** A list, in National item identification number (NIIN) sequence of all National Stock Numbers (NSN) appearing in the listings, followed by a list, in alphanumeric sequence, of all part numbers appearing in the listings. National Stock Number and part numbers are cross-referenced to each illustration figure and item number appearance.

**3. Explanation of Columns.**

The following provides an explanation of columns found in the tabular listings.

**a. Illustration.** This column is divided as follows:

**(1) Figure Number.** Indicates the figure number of the illustration in which the item is shown.

**(2) Item Number.** The number used to identify each item called out in the illustration.

**b. Source, Maintenance and Recoverability Codes (SMR).**

**(1) Source Code.** Source codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
PB	Item procured and stocked for insurance purpose because essentially dictates that a minimum quantity be available in the supply systems.
PC	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfitting. Not subject to automatic replenishment.
PE	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
PF	Support equipment which will not be stocked but which will be centrally procured on demand.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of the probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.
KD	An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.
KF	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.

- KB Item included in both a depot overhaul/repair kit and a maintenance kit.
- MO Item to be manufactured or fabricated at organizational level.
- MF Item to be manufactured or fabricated at the direct support maintenance level.
- MB Item to be manufactured or fabricated at the general support maintenance level.
- MD Item to be manufactured or fabricated at the depot maintenance level.
- AO Item to be assembled at organizational level.
- AF Item to be assembled at direct support maintenance level.
- AH Item to be assembled at general support maintenance level.
- AD Item to be assembled at depot maintenance level.
- XA Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
- XB Item is not procured or stocked. If not available through salvage, requisition.
- XD A support item that is not stocked. When required, item will be procured through normal supply channels.

**NOTE**

***Cannibalization or salvage may be used as a source of supply for any Items source coded above except those coded XA or XD.***

**(2) Maintenance Code.** Maintenance codes are assigned to indicate the levels of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

**(a)** The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance.

<b>Code</b>	<b>Application/Explanation</b>
C	Crew or operator maintenance performed within organizational maintenance.
O	Support item is removed, replaced, used at the organizational level.
I	Support item is removed, replaced, used by the direct support element of integrated direct support element of integrated direct support maintenance.
F	Support item is removed, replaced, used at the direct support level.
H	Support item is removed, replaced, used at the general support level.
D	Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.

**NOTE**

***Codes "I" and "F" will be considered the same by direct support units.***

**(b)** The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes.

<b>Code</b>	<b>Application/Explanation</b>
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.

- H The lowest maintenance level capable of complete repair of the support Item is the general support level.
- D The lowest maintenance level capable of complete repair of the support item is the depot level.
- L Repair restricted to designated specialized repair activity.
- Z Nonreparable. No repair is authorized.
- B No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the maintenance of this item.

- L Repairable item. Repair, condemnation, and disposal not authorized below depot specialized repair activity level.
- A Item requires special handling or condemnation procedures because of specific reasons (I.E., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific Instructions.

**c. National Stock Number.** Indicates the National Stock Number assigned to the item and will be used for requisitioning purposes.

**d. Part Number.** Indicates the primary number used by the manufacturer which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

**Note**

**When a stock number is requisitioned the repair part received may have a different part number than the part being replaced.**

**e. Federal Supply Code for Manufacturer (FSCM).** The FSCM is a 5-digit numeric code listed in SB 708-42 each is used to identify the manufacturer, distributor, or Government agency etc.

**f. Description.** Indicates the Federal item name and if required, a minimum description to identify the item. Items that are included in kits with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description. In the Special Tools List, the initial basis of issue (BOI) appears as the last line in the entry for each special tool, TMDE, and support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased accordingly.

**(3) Recoverability Code.** Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

<b>Recoverability Codes</b>	<b>Definition</b>
Z	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in Position 3.
O	Repairable item. When uneconomically repairable, condemn and dispose at organizational level.
F	Repairable item. When uneconomically repairable, condemn and dispose at the direct support level.
H	Repairable item. When uneconomically repairable, condemn and dispose at the general support level.
D	Repairable item. when beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.

**g. Unit of Measure (U/M).** Indicates the standard of the basic quantity of the listed items as used in performing the actual maintenance function. This measure is expressed by a two character alphabetical abbreviation (e.g., ea, in, pr, etc.). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

**h. Quantity incorporated in Unit.** Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, (e.g., shims, spacers, etc.).

**4. Special Information.**

a. Usable on codes are shown in the description column. Uncoded items are applicable to all models. Identification of the usable on codes used in this publication are:

<b>Code</b>	<b>Used on</b>
DGE	Tiernay Model TM-9KV-208-3-60
EKQ	Keco Model F9000T3-2

b. Repair kits and gasket sets appear as the last entries in the repair parts listing for the figure in which its parts are listed as repair parts or are listed at the end of the repair parts listing for the last figure containing parts of the kit.

c. The following publications pertain to the Air Conditioner and its components.

TM 5-4120-339-14	Operator, Organizational, Direct and General Support Maintenance Manual.
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**5. How to Locate Repair Parts.**

**a. When National Stock Number or Part Number Is Unknown:**

**(1) First.** Using the table of contents, determine the functional group within which the repair part belongs. This is necessary since illustrations are prepared for functional groups, and listings are divided into the same groups.

**(2) Second.** Find the illustration covering the functional group to which the repair part belongs.

**(3) Third.** Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

**(4) Fourth.** Using the Repair Parts Listing, find the figure and item number noted on the illustration.

**b. When the National Stock Number or Part Number Is Known.**

**(1) First.** Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in ascending NSN sequence followed by a list of part numbers in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item number.

**(2) Second.** After finding the figure and item number, locate the figure and item number in the repair parts list.

**6. Abbreviations:**

<b>Abbreviations</b>	<b>Explanation</b>
<i>deg.</i>	<i>degree(s)</i>
<i>ea.</i>	<i>each</i>
<i>ft.</i>	<i>feet (foot)</i>
<i>grp.</i>	<i>group</i>
<i>ld.</i>	<i>inside diameter</i>
<i>ln.</i>	<i>inch(es)</i>
<i>lg.</i>	<i>long (length)</i>
<i>mtg.</i>	<i>mounting(s)</i>
<i>No.</i>	<i>Number(s)</i>
<i>od.</i>	<i>outside diameter</i>
<i>u/w</i>	<i>used with</i>

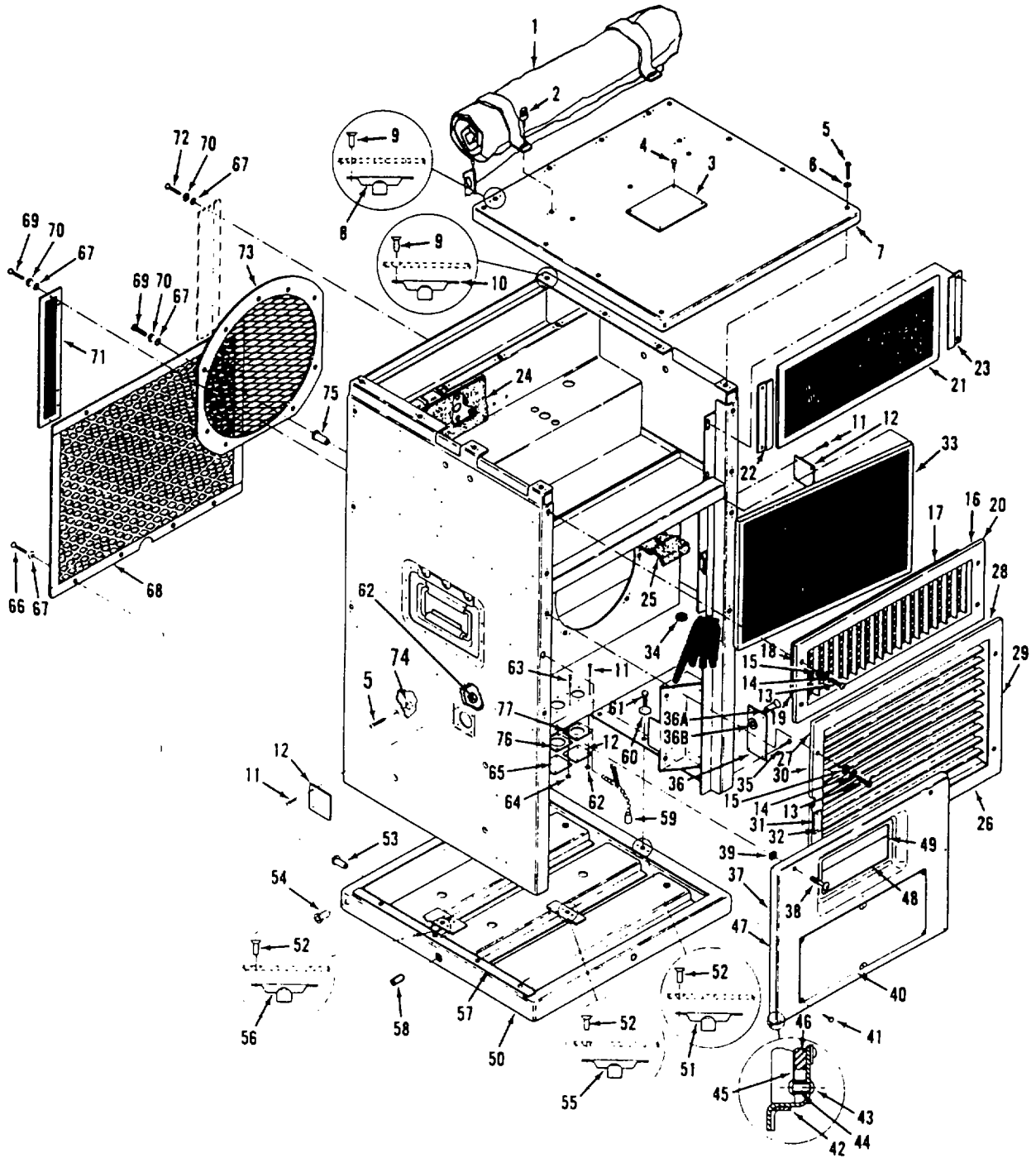


Figure 1. Panels, Cover and Grilles