TECHNI CAL MANUAL

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT AND DEPOT MAINTENANCE MANUAL

MOTOR-GENERATOR PU-724/G (NSN 6125-00-617-1435)

This copy is a reprint which includes current pages from Changes 1 and 2. Title was changed by Change 1 as shown above.

WARNING

DANGEROUS VOLTAGES EXIST IN THIS EQUIPMENT

Do not remove covers or expose live parts until dc input is disconnected.

CHANGE NO. 2

HEADQUARTERS DEPARTMENT OF THE ARMY Washington, DC, 12 December 1983

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL MOTOR GENERATOR PU-724/G (NSN 6125-00-617-1435)

TM 11-6125-2125, 7 July 1971, is changed as follows:

- 1. New or added material is indicated by a vertical bar in the margin of the page.
- 2. Added or revised illustrations are indicated by a vertical bar adjacent to the illustration identification number.
- 3. Remove old pages and insert new pages as indicated below.

Remove Pages	Insert Pages	
i	i/(ii blank)	
1-1	1-1 and 1-2	
3-1 and 3-2	3-1 and 3-2	
4-1 through 4-3	4-1 through 4-4	
7-1 and 7-2	7-1 /(7-2 blank)	
A-1	A-1/(A-2 blank)	

4. File this change sheet in front of the publication for reference purposes.

By Order of the Secretary of the Army:

JOHN A. WICKHAM JR. General, United States Army Chief of Staff

Official:

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Major General, United States Army
The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-51, Operators Maintenance requirements for $PU\mbox{-}724/G.$

TECHNICAL MANUAL

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WASHINGTON, D. C., 7 July 1971

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE MANUAL

MOTOR GENERATOR PU-724/G (NSN 6125-00-617-1435)

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CHAPTER 1 INTRODUCTION

Section 1. GENERAL

1-1. Scope

This manual describes Motor Generator PU-724G (fig. l-l), and contains procedures for installing and operating it. The manual also contains operator, organizational, direct support, general support, and depot maintenance procedures. These include inspection, testing, and parts replacement authorized for operator maintenance level and higher.

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 prescribed 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 .73A/AFR 400-54/MCO 4430.3F.
- c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361)as preescribed in AR 55-38/NAVSUPINST 4610.33C/AFR 75-18/MCO P4610.19D/DLAR 4500.15.

1-3.1. 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 or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703. In either case, a reply will be furnished direct to you.

1-3.2. Reporting Equipment Improvement Recommendations (EIR)

If your Motor-Generator PU-724/G 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. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications-Electronics Command and Fort Monmouth. ATTN: DRSEL-ME-MP, Fort Monmouth, New Jersey 07703. We'll send you a reply.

1-3.3 Administrative Storage

Administrative Storage of Equipment issued to and used by Army activities will have preventive maintenance performed in accordance with the PMCS charts before storing. When removing the equipment from administrative storage the PMCS should be performed to assure operational readiness. Disassembly and repacking of equipment for shipment or limited storage are covered in paragraphs 7-1 and 7-2, and TM 740-90-1, Administrative Storage of Equipment.

1-3.4. Destruction of Army Electronics Materiel

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

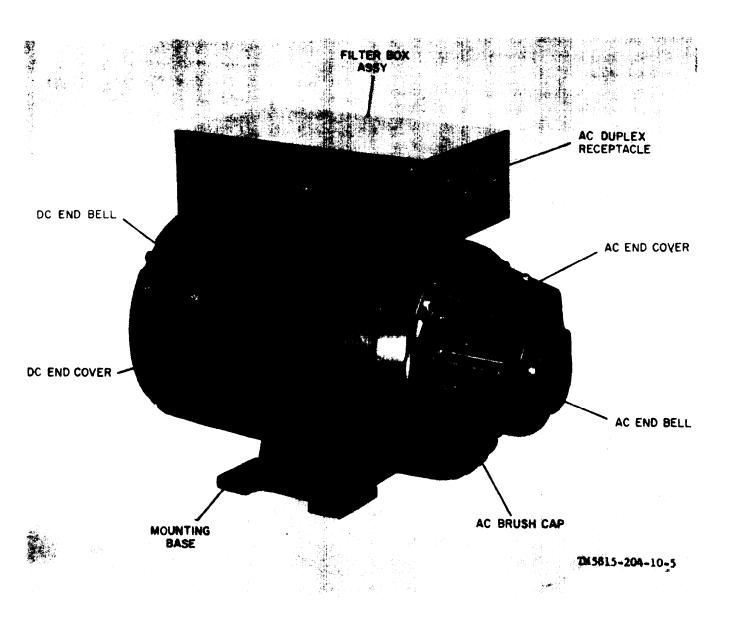


Figure 1-1. Motor generator PU-724/G.

INSTALLATION AND OPERATION

Section I. INSTALLATION

2-1. General

The motor generator is designed for easy installation. It requires only placement and connection of the input and output cables in order to be ready for **service**.

2-2. Unpacking

- a. The motor generator is mounted on a 3/8-inch piece of plywood 7 1/2 inches by 15 inches and shipped in a sealed, corrugated paper container 11 inches high, 17 inches wide, and 8 inches deep, having a volume of 0.86 cubic feet and a gross weight of 48 pounds (fig. 2-1).
- b. Unpack carefully and remove the unit from the mounting board. Retain the two copies of the instruction book packed in the carton.

2-3. Checking Unpacked Equipment

a. Inspect the equipment for damage that may have occurred during shipment. If the equipment

has been damaged, fill out and forward DD Form C (para 1-2 b).

- b. The motor generator comes packed as a single unit without additional components or accessories and is complete within itself.
- c. Check to see whether the equipment has been modified. If the equipment has been modified, the MWO number will appear near the nomenclature plate. Check also to see whether all MWOs current at the time the equipment is placed in use have been applied.

NOTE

Current MWOs applicable to the equipment are listed in DA PAM 310-7.

d. Check the latest issue of DA Pam 310-4 (never more than 1 year old) and its latest changes (never more than 6 months old) to see whether you have the latest editions of all applicable maintenance literature. (Equipment issued by depots may have been in stock for some time and may contain superseded manuals.)

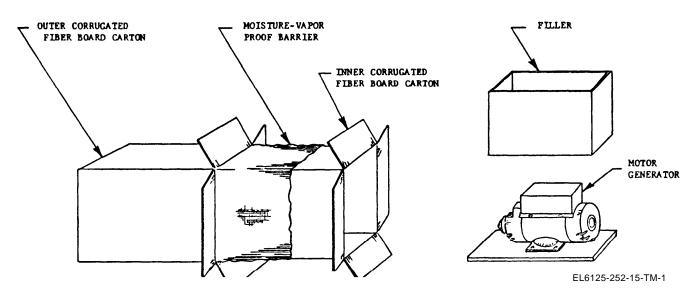


Figure 2-1. Packaging motor generator.

2-4. Installation

- a. Mounting. The motor generator can be mounted by means of four hexagon head 5/16 bolts with a flat washer under the heads. Use the four slots in the stamped steel base. The unit should be mounted on a level surface with the axis of the armature horizontal.
- b. Moisture. All electrical equipment should be protected against excessive moisture. Failure to do so can result in deterioration of the insulation and could result in short circuits and grounds.
- c. *Dirt.* Foreign materials such as dust, sand, lint, and abrasives can cause excessive bearing and brush wear. It is therefore important that the unit be installed in a reasonably clean location for best results.
- d. Connection. Remove the filter box cover (fig. 5-1). Insert the dc input cable through the cable clamp in the cover and connect the leads to the proper polarity terminals on the input terminal strip. Replace the cover and tighten the cable clamp. Plug the load cable into the ac receptacle in the filter box cover.

Section II. OPERATION

2-5. Stop

This section covers the operation of the motor generator and the operators maintenance instructions.

2-6. Operation

a. Starting. Turn on the dc power supply to the motor generator. Ac power is available at the duplex receptacle.

- b. Running. Air circulation through the ventilating openings must not be blocked. Avoid the circulation of dirt and foreign materials in the ventilating air.
 - c. Stopping. Turn off the dc power supply.
- d. Adjustments. No adjustments need be made on the motor generator.

OPERATOR'S MAINTENANCE INSTRUCTIONS

3-1. Scope of Maintenance

The following is a list of maintenance duties normally performed by the operator of the motor generator. These procedures do not require special tools or test equipment.

- a. Preventive maintenance (para 3–2).
- b. Cleaning (para 3-3).
- c. Deleted.
- d. Operational checks (para 3-4).

3-2. Preventive Maintenance

NOTE

Refer to TM 750-244-2 for proper procedures for destruction of this equipment to prevent enemy use.

- a. Operator/crew preventive maintenance is the systematic care, servicing and inspection of equipment to prevent the occurrence of trouble, to reduce downtime, and to maintain equipment in serviceable condition. To be sure that your motor generator is always ready for your mission, you must do scheduled preventive maintenance checks and services (PMCS).
- (1) BEFORE OPERATION, perform your B PMCS to be sure that your equipment is ready to go.
- (2) When an item of equipment is reinstalled after removal, for any reason, perform the necessary B PMCS (para 3-2.1) to be sure the item meets the readiness reporting criteria.
- (3) Use the ITEM NO. column in the PMCS table to get the number to be used in the TM ITEM NO. column on DA Form 2404 (Equip ment Inspection and Maintenance Worksheet) when you fill out the form.
- b. Routine checks like CLEANING, DUSTING, WASHING, CHECKING FOR FRAYED CABLES, STOWING ITEMS NOT IN USE, COVERING UNUSED RECEPTACLES, CHECKING FOR

LOOSE NUTS AND BOLTS, AND CHECKING FOR COMPLETENESS are not listed as PMCS checks. They are things that you should do any time you see they must be done. If you find a routine check like one of those listed in your PMCS, it is because other operators reported problems with this item.

NOTE

When you are doing any PMCS or routine checks, keep in mind the warnings and cautions.

WARNINGS

- Adequate ventilation should be provided while using TRICHLOROTRIFLUOROE-THANE. Prolonged breathing of vapor should be avoided. The solvent should not be used near heat or open flame; the products of decomposition are toxic and irritating. Since TRICHLOROTRIFLUO-ROETHANE dissolves natural oils, prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediate y.
- Compressed air is dangerous and can cause serious bodily harm if protective means or methods are not observed to prevent a chip or particle (of whatever size) from being blown into the eyes or unbroken skin of the operator or other Goggles must be worn at all personnel. times while cleaning with compressed air. Compressed air shall be not be used for cleaning purposes except where reduced to less than 29 pounds per square inch gage (psig) and then only with effective chip guarding and personnel protective equipment. Do not use compressed air to dry parts when trichlorotrifluoroethane has been used.

NOTES

The PROCEDURES column in your PMCS charts instruct how to perform the required checks and services. Carefully follow these instructions and, if tools are needed or the chart so instructs, get organizational maintenance to do the necessary work.

If your equipment must be in operation all the time, check those items that can be checked and serviced without disturbing operation. Make the complete checks and services when the equipment can be shut down.

c. Deficiencies that cannot be corrected must be reported to higher category maintenance personnel. Records and reports of preventive maintenance must be made in accordance with procedures given in TM 38-750.

NOTE

The checks in the interval column are to be performed in the order listed.

3-2.1. Operator/Crew Preventive Maintenance Checks and Services Chart

B — Before

Item No.	Interval B	Items to be Inspected	Procedures - Check for and have repaired or adjusted as necessary	Equipment is not Ready/Available If:
1 2	*	Motor Generator PU-724/G Mission	Perform operational check as described in paragraph 3-4. Check for completeness and	Unit does not run or produce ac. Available equipment is
		Essential Equipment	satisfactory condition of the equipment. Report missing items.	insufficient to support the combat mission.

*Do this check before each deployment to a mission location. This will permit any existing problems to be corrected before the mission starts. The check does not need to be done again until redeployment.

3-3. Cleaning

Inspect the motor generator for cleanliness. It should be free of dirt, dust, grease, and fungus. Ventilating openings should be clean so that the internal fan can circulate cooling air while operating.

- a. Remove dust and loose dirt with a clean, soft cloth.
- b. Remove dust and dirt from plugs, receptacles, and ventilating openings with a brush.

3-4. Operational Checks

a. The motor generator should run freely when the dc power is turned-on. The receptacle should

have 110 volts, 60 Hz available. If unit does not run, first check dc power supply and then the dc brushes. If unit runs but does not produce ac, check ac brushes. If severe arcing is observed on dc commutator, the motor generator should be sent to higher level of maintenance for commutator service.

b. There are no adjustments for the motor generator. If it does not operate after performing a above, remove and replace (para 4-9).

ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

4-1. Scope of Organizational Maintenance

- a. Paragraphs 4-2 through 4-10 cover organizational maintenance of the motor generator. Refer to paragraphs 2-1 through 2-4 for installation of this equipment; and to paragraphs 2-6 and 2-6 for its operation.
- b. Organizational maintenance for the motor generator PU-724/G consists of the following:
 - (1) Preventive maintenance (para 4-3). paragraph 4-1 <u>b</u> 2) deleted.
- (3) Preventive maintenance checks and services chart (para 4-4).

Paragraph 4-1 b (4) deleted.

Paragraph 4-1 b (5) deleted.

- (6) Checking brushes (para 4-7).
- (7) Removal and replacement of brushes (para 4-8).
- (8) Removal and replacement of motor generator (para 4-9).
 - (9) Troubleshooting (para 4-10).

4-2. Tools, Materials, and Test Equipment Required

- a. The only tools required to perform maintenance at this level are included in TE-50B, NSN 5180-00-356-4602.
 - b. Materials.
- (1) Trichlorotrifluoroethane (NSN 6850-00-105-3084).

WARNING

Adequate ventilation should be provided TRICHLOROTRIFLUOROwhile using Prolonged breathing of vapor ETHANE. The solvent should should be avoided. not be used near heat or open flame; the products of decomposition are toxic and Since TRICHLOROTRIirritating. FLUOROETHANE dissolves natural oils. prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediately.

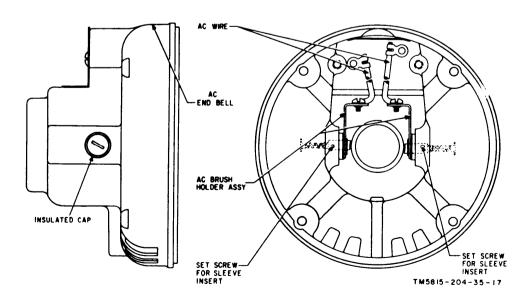


Figure 4-1. Motor generator, ac endbell.

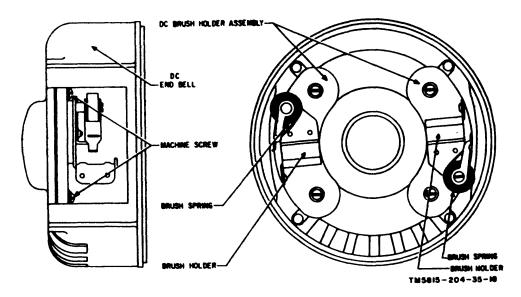


Figure 4-2. Motor generator, dc endbell.

(2) Cleaning cloths.

4-3. Preventive Maintenance

NOTE

Refer to TM 750-244-2 for proper procedures for destruction of this equipment to prevent enemy use.

- a. Organizational preventive maintenance procedures are designed to help maintain equipment in serviceable condition. They include items to be checked and how to check them. These checks and services, described in paragraph 4-4, outline inspections that are to be made at specific quarterly (Q) intervals.
- (1) Quarterly PMCS are important checks to keep serious problems from suddenly happening.
- (2) Use the ITEM NO. column in the PMCS table to get the number to be used in the TM ITEM NO. column on DA Form 2404 (Equipment Inspection and Maintenance Worksheet) when you fill out the form.

b. Routine checks like CLEANING, DUSTING, WASHING, CHECKING FOR FRAYED CABLES, STOWING ITEMS NOT IN USE, COVERING UNUSED RECEPTACLES, CHECKING FOR LOOSE NUTS AND BOLTS, AND CHECKING FOR COMPLETENESS are not listed as PMCS checks. They are things that you should do any time you see they must be done. If you find a routine check like one of those listed in your PMCS, it is because other operators reported problems with this item.

NOTE

When you are doing any PMCS or routine checks, keep in mind the warnings and cautions.

WARNINGS

- Adequate ventilation should be provided while using TRICHLOROTRIFLUORO-ETHANE. Prolonged breathing of vapor should be avoided. The solvent should not be used near heat or open flame; the products of decomposition are toxic and irritating. Since TRICHLOROTRIFLUORO-ETHANE dissolves natural oils, prolonged contact with skin should be avoided. When necessary, use gloves which the solvent cannot penetrate. If the solvent is taken internally, consult a physician immediately.
- Compressed air is dangerous and can cause serious bodily harm if protective means or methods are not observed to prevent a chip or particle (of whatever size) from being blown into the eyes or unbroken skin of the operator or other personnel. Goggles must be worn at all times while cleaning with compressed air. Compressed air shall not be used for cleaning purposes except where reduced to less than 29 pounds per square inch gage (psig) and then only with effective chip guarding and personnel protective equipment. Do not use compressed air to dry parts when trichlorotrifluoroethane has been used.

NOTES

The PROCEDURES column in your PMCS charts instruct how to perform the required checks and services. Carefully follow these instructions and, if tools are needed or the chart so instructs, get higher category maintenance to do the necessary work.

If your equipment must be in operation all the time, check those items that can be checked and serviced without disturbing operation. Make the complete checks and services when the equipment can be shut down.

c. Deficiencies that cannot be corrected must be reported to higher category maintenance personnel. Records and reports of preventive maintenance must be made in accordance with procedures given in TM 38-750.

NOTE

The checks in the interval column are to be performed in the order listed.

4-4. Organizational Preventive Maintenance Checks and Services Chart

Q - Quarterly

Item No.	Interval Q	Item to be Inspected	Procedures
1	•	Motor Generator PU-724/G	Perform operational check as described in paragraph 3-5.

Paragraph 4-5 deleted.

Paragraph 4-6 deleted.

4-7. Checking Brushes

a. After initial installation or after new brushes are installed, check the ac brushes after 1000 hours of operation and every 200 hours thereafter. Remove the cap of each ac brush (fig. 4-1) and lift out the brush. If the working face is worn down to the end of the wear line, it should be replaced (para 4-8). Replace the brush exactly as it was removed until a new brush is installed. Do not interchange brushes.

CAUTION

When removing the dc brushes, mark the brushes in a manner which will insure your replacing them in exactly the same position they were in the brush holders before you removed them. Incorrect replacement of dc brushes will cause arcing on commutator segments and thus create noise interference to equipment and excessive commutator wear due to the arcing.

b. After initial installation or after new dc brushes are installed, check the brushes after 1000 hours of operation and every 200 hours thereafter. Remove the cover plates over the dc brushes (figs. 4-2 and 5-1). Lift the finger over the brush and lift out the brush. If the working face is worn down to the end of the wear line, it should be replaced (para 4-8). Replace the brush exactly as it was removed until a new brush is installed.

4-8. Removal and Replacement of Brushes

Replacement of brushes is required when inspection (para 4-7) shows that they are worn down to the wear line. A full set of spare brushes is shipped with the motor generator.

a. Ac Brushes. See paragraph 4-7 *a* for brush checking procedure. When replacing with new brushes, the curvature must be observed to insure proper seating and contact with the sliprings.

b. Dc Brushes. See paragraph 4-7 b for brush checking procedure. Remove the machine screws that secure the brush leads to the brush holders. Place the new brush in the holder, observing the curvature and polarity marking. Place the terminal under the machine screw in the holder and tighten. See that spring and finger move freely and press down on top of brush in holder.

c. Brushes will reseat to the curvature of the sliprings and commutator after several hours of operation.

4-9. Removal and Replacement of Motor Generator

- a. Removal.
- (1) Remove the dc power cable plug from its termination point.
 - (2) Remove any plugs that may have been

plugged into the output receptacle on the motor generator.

- (3) Remove the four capscrews, lockwashers, and plain washers that secure the motor generator to the shelter frames, and remove the motor generator.
- *b. Replacement. Refer to* paragraphs 2-1 through 2-4 for installation.

4-10. Troubleshooting

a. General. Troubleshooting the motor generator consists of isolation of the trouble. If the defect is within the scope of operator or organizational maintenance, the repair will be accom-

plished by that category of maintenance. Defects beyond the scope of organisational maintenance will be referred to higher category of maintenance. However, troubleshooting performed at the organizational maintenance category can determine which part of the generator is defective.

b. Procedure. Perform the preventive maintenance checks and services (para 4-4) to determine if there is any cause for failure to operate. If no cause for failure to operate can be found and corrected, remove faulty unit and replace (pars 4-9) with a motor generator which is in good operating condition.

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

5-1. General

- a. The direct support maintenance procedures in this paragraph and paragraphs 5-2 through 5-7 supplement the procedures described in chapters 3 and 4. The systematic troubleshooting procedures, which began at the operator's and organizational maintenance level, are carried to a higher level in this chapter.
- b. A thorough visual check of the equipment should be made when trouble occurs. Check for broken or disconnected cables. Check for damaged or broken enclosures on the motor generator or filter box.

5-2. Troubleshooting Procedures

The first procedures of troubleshooting are done at the operator's and organizational maintenance categories (paras 3–4 and 4–10). The troubleshooting procedures given in this chapter further isolate the trouble and give repair information as applicable at this category of maintenance.

5-3. Test Equipment, Tools, and Other Equipment Required

All test equipment, tools, and other equipment required to perform the testing procedures given in this section are listed in the following charts:

a. Test Equipment.

Nomenclature	Federal stock no.	Technical reference
Multimeter TS-352B/U	6625–553–0142	TM 11-6625-366-15
Electrical Power Test Set TS-914/U	6625-542-1289	TM 11-6625-303-12

b. Tools.

Nomenclature	Federal stock no.	Technical reference
Toolkit, Electronic Equipment TK-105/G Bearing Puller, Owatonna Tool Company No. 950 or equal.	5180-610-8177	SC 5180-91-CL-R07

c. Other Equipment.

Nomenclature	Pederal stock no.	Technical reference
Cable, power, electrical (or any 2 conductor #10 AWG cable).	6145-161-0798	fig. 6-1
Cord, power CX-237(*)/U. b		fig. 6-1

^{*} Five feet long.

5-4. Troubleshooting Motor Generator

Whenever difficulty is experienced with a motor generator, a visual inspection (a below) may locate the fault. If visual inspection does not locate the fault, proceed with the electrical tests (b below). The troubleshooting chart (para 5-5) provides additional assistance in locating trouble.

- *a.* Make a visual inspection of the unit. This will frequently disclose a loose or broken wire or other obvious cause for faulty operation or failure.
- b. Make the following electrical tests in order to locate electrical faults. Before making any tests on the motor generator (except operational

Indicates CX-237/U and CX-237A/U.

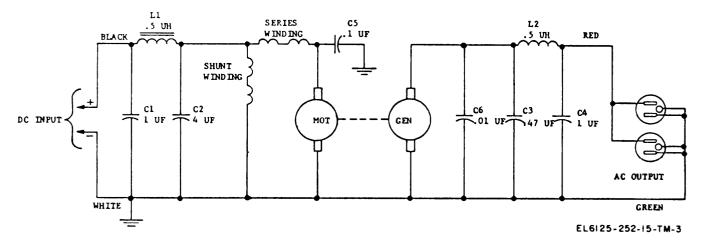


Figure 5-2. Motor generator, schematic diagram.

tests), disconnect the dc power supply. Multimeter TS-352B/U may be used for making continuity tests and checking dc voltage and current.

(1) Armature Test.

- (a) Test for ground. First lift the brushes from both the commutator and sliprings and block them in the raised position. With Multimeter TS-352B/U, test between the armature shaft and each slipring. Test between the armature shaft and each segment of the commutator. A closed circuit reading indicates that the part under test is shorted to ground. Check for worn or dirty insulation or foreign metallic materials.
- (b) Test for open circuit. Place one of the test prods of the multimeter on one of the segments of the commutator. Place the other test prod on the adjoining segment. Keep the first prod in contact with the one segment and move the second prod from segment to segment, completely around the commutator, until a check of all commutator segments has been made. No reading indicates an open circuit. If an open circuit is indicated, inspect the soldered connection on the end of the segment. To test the ac circuit, place one test prod on each of the sliprings. No reading indicates that the circuit is open.
- (2) Capacitor tests. Before testing a capacitor, disconnect one end. Make a continuity test between the two terminals of the capacitor. If continuity is indicated, the capacitor is short

circuited and must be replaced. The best test for a capacitor is to substitute a good capacitor for the one suspected of being faulty. To be safe, replace any capacitor suspected of causing trouble.

(3) Field test.

- (a) Lift the brushes from the armature commutator and block them in the raised position. With Multimeter TS-352B/U, test the shunt field coil circuit for continuity. If circuit is complete, check resistance of the total field circuit. The resistance should be from 17 to 19 ohms at 20° C. If circuit is open or resistance is incorrect, field shell assembly must be replaced unless broken wire is located.
- (b) Check series field for continuity between A+ terminal, located on the dc input terminal strip in the filter box, and positive brush holder.

5-5. Troubleshooting Charts for Motor Generator

The troubleshooting charts that follow list various troubles and trouble symptoms that may be readily detected. When the type of trouble has been determined, check the various points listed under possible causes and then correct the difficulty in accordance with instructions listed under remedy. Where disassembly is required, refer to paragraph 5-6 for procedures.

a. Unit Fails to Start.

Possible causes	What to check	Remedy
No dc input; open in dc circuit	Inspect dc wiring inside of filter box. Test dc components in filter box. See figures 5-1 and 5-2.	Correct faulty wiring inside filter box. Replace faulty dc filter components. See figures 5-1 and 5-2.
Dc brush not making contact	Check for weak or broken brush spring. Measure brush length for worn brushes. Check brushes for free movement in holders.	Replace faulty brush spring. Replace any brush worn below 1/2 inch, Refer to paragraph 4-8 <i>b.</i>
Armature jammed	Remove inspection cover and try to turn it by hand. Check the bearings. Check for foreign material or broken brush causing jamming.	Refer to paragraph 5-6. Replace broken brush causing jamming. Remove for- eign material around armature. Check bearing alignment. Refer to depot cate- gory for replacement of bearings.
b. Unit Runs but Does not De	eliver Current.	
Possible causes	What to check	Remedy
Open ac circuit	Inspect ac wiring and connections. Test filter coils.	Repair or replace faulty part.
Ac brushes not making good contact.	Inspect for weak or broken brush spring (fig. 4-1). See that brushes move freely in holders. Check brush length against wear line.	Replace broken spring. Clean brushes and brush holders. Replace worn brushes.
Partial short in ac circuit	Test wiring. Test filter capacitors under load.	Repair or replace faulty wiring. Replace capacitors.
c. Low Ac Output Voltage.		
Possible causes	Wkat to check	Remedy
Low dc input voltagePartial short in ac circuit	Test dc input voltage See b above	Correct cause of low dc input voltage. See b above.
d. Speed or Frequency Above	e or Below Normal.	
Possible causes	What to check	Remedy
High or low dc input voltage	Test dc input voltage	Correct cause of high or low input voltage.
e. Excessive Sparking at Br	ushes.	
Probable cause	What to check	Remedy
Brushes out of position	Check position of brush holderCheck for broken brush spring	Adjust brush holder. Replace broken spring.
Brush sticking in holder Overload on unit	Check for broken or cracked brushes. Check for free brush movement Check load for shorts	Clean brush and brush holder. Reduce load.
f. Unit Overheats.		
Possible Causes	What to check	Remedy
Unit overloaded	See e above	See e above.
Poor ventilation	Inspect ventilating air intake and outlet.	Clean ventilating air screens.
g. Bearings Overheated.		
Possible cause	What to check	Remedy
Bearings misaligned	Check fit of endbells	Adjust seating of endbells.
h. Noisy Operation.		
Possible cause	What to cheek	Remedy
Unit is loose	Inspect mounting bolts	Tighten mounting bolts.

i. Unit Causes Radio Interference.

Possible cause What to check Remedy

Faulty capacitor. Defective coil Sparking at commutator or sliprings.

Test capacitors -----Test coils for continuity and to ground
Inspect commutator, sliprings, and
brushes.

--- Replace faulty capacitor.

nd Repair or replace faulty part.

and Clean commutator or sliprings; replace

5-6. Repair

When the troubleshooting procedure locates a fault in the motor generator requiring disassembly and reassembly in order to make the repair, follow the procedures below, Refer to figure 5-1 for an exploded view of the motor generator and to figure 5-2 for the schematic wiring diagram.

- a. Disassembly is accomplished by proceeding with the following steps:
 - (1) Remove the ac brushes (A128).
 - (2) Remove the dc brushes (A111).
- (3) Remove the inspection plate (A120) above the ac brushes.
- (4) Remove the .01 μ f mica capacitor (A163) (fig. 5-1) and the ac wires (fig. 4-1) from the ac brush holder assemblies.
- (5) Remove the four hexagonal nuts and split lockwashers from the thru bolts of the frame. Remove the thru bolts.
- (6) Remove the ac endbell (A193) from the field frame.
- (7) Carefully remove the armature (A195) while holding the baffle plate (A198). Armature shaft bearings (A196 and A197) will remain on the shaft. After the armature is removed, the baffle plate (A198) will fall free; remove.

NOTE

If the armature shaft bearings have to be removed for replacement, proceed with (8) below. If not, omit this Step.

- (8) Remove the armature shaft bearings from the shaft, using a bearing puller.
- (9) Remove the two dc leads to the dc brush holders (fig. 4-2).
- (10) Remove the dc endbell (A161) from the field frame.
- (11) Loosen the machine screws on the cable clamp (A008) that holds the input power cable to the filter box cover. Remove the four machine screws that hold the filter box cover (A017) to the filter box base (A095); lift the cover.
 - (12) Remove the two machine screws, hex-

agonal nuts, and lockwashers that hold the ac output receptacle (A010) in the filter box cover; remove the receptacle from the cover.

- (13) Remove the dc input power wires from the dc input terminal block (A082), noting the terminals from which they were removed; remove the input cable and filter box cover from the rotary converter.
- (14) Remove the heavy black and white field coil wires from the terminal block, noting the terminals from which they were removed. Remove the ac wires from the ground lug and choke coil L2 (A041). Remove the field coil wire from the terminal post connected to choke coil L1 (A036).
- (15) Remove the four machine screws and lockwashers that secure the filter base assembly to the rotary converter; carefully remove the filter base assembly from the rotary converter frame, noting where the respective field coil wires come through the rubber grommets on the base.

NOTE

If the ac or dc brush holder assemblies have to be removed for replacement, proceed with (16) and (17) below. If not, omit these steps.

- (16) Remove the setscrews that secure the ac brush holder assemblies in the ac endbell; remove the ac brush assemblies.
- (17) Remove the four machine screws and lockwashers that secure the dc brush holder assemblies to the dc endbell; remove the two brush holder assemblies (A146).
- b. Reassembly is accomplished by proceeding with the following steps. Replace worn or damaged parts with new parts.
- (1) Guide the field coil wires through their respective grommets in the filter base assembly and position the filter base assembly on the rotary converter; secure the filter base to the converter with the four lockwashers and machine screws.
- (2) Connect one ac wire to the ground lug and the other to choke coil L2 (A041).
 - (3) Connect the heavy black and white field

coil wires to the proper terminals on the terminal block from which they were removed.

(4) Connect field coil wire to the terminal post connected to choke coil L1.

NOTE

If the ac or dc brush holder assemblies were removed, proceed with (5) and (6) below. If not, omit these steps.

- (5) Position the dc brush holder assemblies into the dc endbell, and secure the assemblies with the four machine screws and lockwashers which were removed.
- **(6)** Position the ac brush holder assemblies into the ac endbell and secure the assemblies with the setscrews which were removed.
- (7) Position the dc endbell onto the field frame and connect the two dc leads, which were removed, to the dc brush holders.
- **(8)** Place the armature shaft bearings on each end of the shaft, if these were removed or replaced and carefully press them onto the shaft.
- **(9)** Place the baffle plate into position and, while holding the plate, carefully insert the armature through the plate and field frame to the dc endbell. Be sure the armature shaft bearing (A197) seats properly in the dc endbell.
- (10) Place the four thru bolts into the dc endbell through the field frame (A210) and baffle plate (A198).
- (11) Position the ac endbell into place; use the four through bolts as guides, while carefully seating the armature shaft bearing in the ac endbell.

- (12) Place the four hexagonal nuts and split lockwashers onto the through bolts. Carefully tighten them and, at the same time, turn the armature by hand to check for freedom of rotation.
- (13) Connect the ac wires and mica capacitor (A163) to the ac brush holder assemblies.
 - (14) Replace the ac brushes (para 4-8 a).
 - (15) Replace the dc brushes (para 4-8 b).
- (16) Connect the input power wires to the terminal block.
- (17) Assemble the output receptacle in the filter box cover with two machine screws, lockwashers, and hexagonal nuts.
- (18) Attach the cover to the filter box with four lockwashers and machine screws.
- (19) Tighten the machine screws on the input power cable clamp.
- (20) After testing (para 5-7), position the inspection plate above the ac brushes and secure. Position the metal inspection and filter covers on the dc endbell and secure.

5-7. Testing Motor Generator

a. After repair (para 5–6), plug the power cable into a 27.5-volt dc source. If test cables are needed, provide as shown in figure 6-1. Check both the ac and dc brushes for nonarcing operation, which indicates proper seating. If brushes are not seated, run unit for several hours and check for a minimum of three fourths of the face to be seated.

b. Measure the ac voltage and frequency, using Electrical Power Test Set TS-914/U.

GENERAL SUPPORT AND DEPOT MAINTENANCE

6-1. General

General support and depot maintenance procedures in this paragraph and 6–2 through 6–5 supplement the procedures described in paragraphs 5–1 through 5–6. Tools and test equipment required to test and repair the motor generator are also listed. Applicable tests must be performed after the unit has been repaired,

6-2. Troubleshooting Procedures

The troubleshooting procedures for this category

of maintenance are identical to those given in paragraphs 3–4, 4–10 and 5–4. Use the trouble-shooting chart in paragraph 5–5.

6-3. Test Equipment, Tools, and Materials Required

The following chart lists the test equipment cables, connectors, and special tools required for general support and depot maintenance of the motor generator.

a. Test Equipment.

Nomenclature	Federal stock no.	Technical reference
Multimeter ME-26A/U		TM 11-6625-200-12 TM 11-6625-366-15 TM-11-5126 TM 11-6625-303-12

b. Tools.

Nomenclature	Federal stock no.	Technical reference
Toolkit, Electronic Equipment TK-105/G Bearing Puller, Owatonna Tool Company No. 950 or equal.	5180-610-8177	SC 5180-91-CL-R07

c. Other Equipment.

Nomenclature	Federal stock no.	Technical reference
Cable, power, electrical* (or any two conductor #10AWG cable).	6145-161-0768	Fig. 6-1
Cord, power CX-237(*)/U. Besistor, 120 ohms 140 watts fixed, wirewound	5905-263-4099	Fig. 6-1 None.
(3 ea). Clip, electrical: alligator style (3 ea)	5940-186-9833	None.

^{*} Five feet long.

6-4. Repair of Motor Generator

Follow the procedures for repair of the motor generator given in paragraph 5-6.

6-5. Testing Procedures

a. General. Testing procedures are prepared

for use by Signal field maintenance shops and Signal service Organizations responsible for general support maintenance to determine the acceptability of repaired signal equipment. These procedures set forth specific requirements that repaired signal equipment must meet before it

^bIndicates CX-237/U and CX-237A/U.

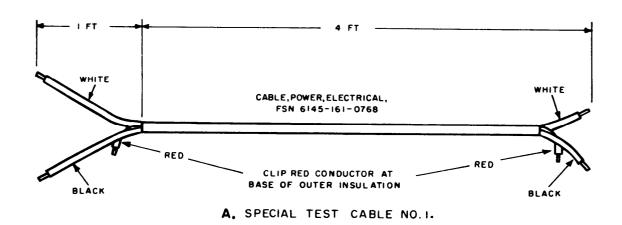
TM 11-6125-252-15

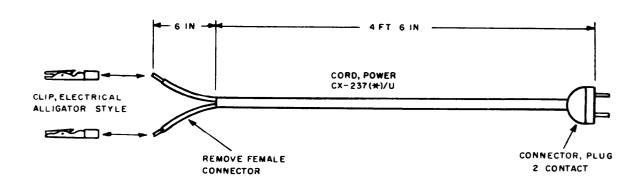
is returned to the using organization. The testing procedures may also be used as a guide for testing equipment repaired at direct support maintenance if the proper tools and test equipment are available. See paragraph 1–5 *a* and *b* for performance standards.

b. Each test depends on the preceding one for certain operating procedures and, where applicable, for test equipment calibrations. Comply with the instructions preceding the body of each chart before proceeding to the chart. Perform each test in sequence. Do not vary the sequence. For each step, perform all the actions required in the Test equipment control setting and Equip-

ment under test control setting columns; then perform each specific test procedure and verify it against its performance standard.

- c. Special requirements. The following must be performed in preparation for the motor generator test (para 6-7).
- (1) Loosen the motor generator filter box cover as much as necessary to remove Cable Assembly, Power CX-4541/U. Note the location of the black and white conductors.
- (2) Fabricate special test cable No. 1 (fig. 6-1) and connect it in place of the CX-4541/U. Connect the black and white conductors at their proper terminals.





B. SPECIAL TEST CABLE NO.2.

EL6125-252-15-TM-4

Figure 6-1. Special test cables.

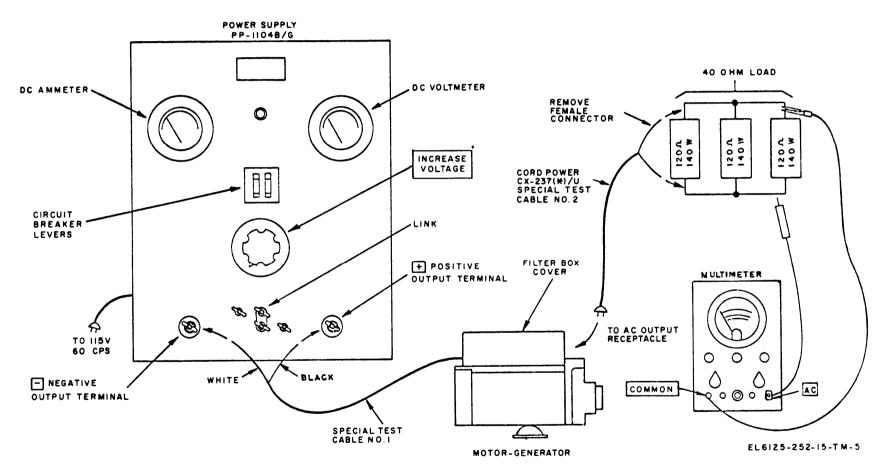


Figure 6-2. Motor generator, electrical tests.

6-6. Motor Generator, physical Tests and Inspection

- a. Test Equipment and Materials. None.
- b. Test Connections and/or Conditions. None.
- c. Test Procedure.

Step No.	Test equipment control settings	Equipment under teat control settings	Test procedure	Performance standard
1	None	None	 a. Check the rotary converter power cable insulation. b. Check air vents for accumulation of dirt or dust. c. Check ac output receptacles and brush caps for physical damage. d. Check unit for condition of finish Note. Touchup painting is recommended whenever practical. Screw heads and receptacles will not be painted or polished with brasives. 	 a. Cable insulation should not be cracked or worn. b. Air vents should be clean and free from matter which could impair ventilation. c. Items mentioned should not be damaged. d. Only surfaces intended to be painted should be painted. Name plate should be clearly marked.

6-7. Motor Generator, Electrical Tests

a. Test Equipment and Materials.

Multimeter ME-26 (*) /U.

Special test cable No. 1 (fig. 6-1)

Power Supply PP-1104 (*) /G.

Cord, Power CX-237 (*) /U. Test cable No. 2 (fig. 6-1).

Resistor, fixed, wirewound (3 each) 120 ohms, 140 watts.

- b. Test Connections and/or Conditions. Connect equipment as illustrated in figure 6-2. Connect special test cable No. 1 as instructed in paragraph 6-5 c.
 - c. Test Procedure.

Step No.	Teat equipment control settings	Equipment under test control settings	Test procedure	Performance standard
1	PP-1104(*)/G INCREASE VOLTAGE: fully counterclockwise. Link: arranged as shown in figure. Circuit breaker lever: ON ME-26(*)/U FUNCTION switch: AC. RANGE switch: 300V.		 a. Rotate PP-1104(*)/G INCREASE VOLTAGE clockwise, until dc voltmeter indicates 27.5 volts. b. Observe PP-1104(*)/G dc ammeter indication. c. Observe ME-26 (•)/U meter indication. 	 a. None. b. Indication should not be greater than 24 amperes. c. Should indicate 115 ± 5 volts.

PREPARATION OF EQUIPMENT FOR RESHIPMENT

Section I. PREPARATION OF EQUIPMENT FOR RESHIPMENT

7-1. General

The motor generator is normally shipped in a lined, corrugated paper carton. The preparations for local shipment and for limited storage are the same.

7-2. Repackaging for Shipment or Limited Storage

The exact procedure for repackaging depends on the material available and the conditions under which the equipment is to be shipped or stored. Secure all loose items and cables. Adapt the procedures outlined below whenever possible. The information contained in the original packaging (para 2-1) will also be helpful.

a. Material Requirements. The following materials are required for packing Motor Generator

PU-724/G. For stock numbers of materials, consult SB 38-100.

Material	Quantity
Waterproof paper	- 10 Sq ft
Waterproof tape	15 ft
Corrugated cardboard	30 sq ft
Gummed paper tape	30 ft
Plywood, 3/8 in 7	1/2 in. x 15in.

- b. Packaging. The motor generator is to be packaged as follows:
 - (1) Mount unit on plywood base.
 - (2) Make inside carton to accept unit.
- (3) Make filler and place filler and motor generator in inside carton.
 - (4) Wrap with waterproof paper and seal.
- (5) Make outside carton to accept package in (4) above.
 - (6) Secure the wrap with gummed tape.

Section II deleted.

APPENDIX A

REFERENCES

Following is a list of applical PU-724/G.	ble references available to the personnel concerned with Motor Generator
DA Pam 310-1	Consolidated Index of Army publications and Blank Forms.
SB 38-100	Preservation, Packaging and Packing Materials, Supplies and Equipment Used by the Army.
TM 11-5815-204-10	Operator Manual: Radio Teletypewriter Sets AN/GRC-46, AN/GRC-46A (NSN 5815-00-543-1760), AN/GRC-46B (5815-00-570-5488), AN/GRC-46C (5815-00-082-4205) and AN/VRC-29 (5815-00-543-1758).
TM 11-5815-204-20	Organizational Maintenance Manual: Radio Teletypewriter Sets, and AN/GRC-46, AN/GRC-46A (NSN 5815-00-543-1760, AN/GRC-46B (5815-00-570-5488), AN/GRC-46C (5815-00-082-4205) and AN/VRC-29 (5815-00-543-1758).
TM 11-5815-204-35	Field and Depot Maintenance Manual Radio Teletypewriter Sets, AN/GRC-46, AN/GRC-46A and AN/GRC-46B and AN/VRC-29t
TM 38-750	The Army Maintenance Management Systems (TAMMS),
TM 740-90-1	Administrative Storage of Equipment.
TM 750-244-2	Procedures for Destruction of Electronics Materiel to Prevent Enemy Use.

APPENDIX B MAINTENANCE ALLOCATION

Section I. INTRODUCTION

B-1. General

This appendix provides a summary of the maintenance operations for Motor-Generator PU-724/G. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

B-2. Maintenance Function

Maintenance functions will be limited to and defined as follows:

- a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.
- b. Test. To verify serviceability and to detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.
- c. Service. Operations required periodically to keep an item in proper operating condition; i.e., to clean (decontaminate), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or compressed air supplies.
- d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.
- e. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.
- f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test measuring and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- g. Install. The act of emplacing, seating, or fixing into position an item, part, module (component or assembly) in a manner to allow the proper functioning of the equipment or system.
- h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.
- i. Replace. The application of maintenance services (inspect, test, service, adjust, align, calibrate, replace) or other maintenance actions (welding,

- grinding, riveting, straightening, facing, remachining, or resurfacing) to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.
- j. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards (i. e., DMWR) in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours, miles, etc.) considered in classifying Army equipments/components.

B-3. Column Entries

- a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.
- b. Column 2, Component/Assembly. Column 2 contains the noun names of components, assemblies, subassemblies, and modules for which maintenance is authorized.
- c. Column 3, Maintenance Functions. Column 3 lists the functions to be performed on the item listed in column 2. When items are listed without maintenance functions, it is solely for purpose of having the group numbers in the MAC and RPSTL coincide.
- d. Column 4, Maintenance Category. Column 4 specifies, by the listing of a "work time" figure in the appropriate subcolumn(s), the lowest level of maintenance authorized to perform the function listed in column 3. This figure represents the active time required to perform that maintenance function at the indicated category of maintenance. If the number or complexity of the tasks within the listed maintenance function vary at different maintenance categories, appropriate "work time" figures will be shown for each category. The

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number of task hours specified by the "work time" figure represents the average time required to restore an item (assembly, subassembly, component, module, end item or system) to a servicable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart. Subcolumns of column 4 are as follows:

C — Operator/Crew

O - Organizational

F — Direct Support

H — General Support

D — Depot

- e. Column 5, Tools and Equipment. Column 5 specifies by code, those common tool sets (not individual tools) and special tools, test, and support equipment required to perform the designated function.
- f. Column 6, Remarks. Column 6 contains an alphabetic code which leads to the remark in section IV, Remarks, which is pertinent to the item opposite the particular code.

B-4. Tool and Test Equipment Requirements (Sec III).

- a. Tool or Test Equipment Reference Code. The numbers in this column coincide with the numbers used in the tools and equipment column of the MAC. The numbers indicate the applicable tool or test equipment for the maintenance functions.
- b. Maintenance Category. The codes in this column indicate the maintenance category allocated the tool or test equipment.
- c. Nomenclature. This column lists the noun name and nomenclature of the tools and test equipment required to perform the maintenance functions.
- d. National/NATO Stock Number. This column lists the National/NATO stock number of the specific tool or test equipment.
- c. Tool Number. This column lists the manufacturer's part number of the tool followed by the Federal Supply Code for manufacturers (5-digit) in parentheses.

B-5. Remarks (Sec IV).

- a. Reference Code. This code refers to the appropriate item in section II, column 6.
- b. Remarks. This column provides the required explanatory information necessary to clarify items appearing in section II.

MOTOR GENERATOR

PU-724/G

(1)	(2)	(3) MAINTENANCE	м	AINTEN/	(4) ANCE CA	TEGOR	Y	(5) TOOLS	(6) REMARKS
GROUP (NUMBER	COMPONENT/ASSEMBLY	FUNCTION	С	0	F	н	D	AND EQPT.	
00	Motor Generator	Inspect	0.2						A
00	PU-724/G	Test		0.2				1	
	FU-724/G	Test			0.3			2, 3	
		Test		i i		0.3		2, 3, 4,5	
		Service			0.3			6	
		Adjust			0.3			6	
		Replace		0.3				1	
		Repair		0.3			İ	1	В
		Repair			1.0	i		6, 7	
		Rebuild		1			4.0	6, 7	
			ŀ						
			İ						
								1	
							ŀ		
					1				
									ĺ

SECTION III TOOL AND TEST EQUIPMENT REQUIREMENT>, FOR

TM 11-6125-252-15

MOTOR - GENERATOR

PU-724/G

TOOL OR TEST	MATHER ENVIROR	NOMENCLATURE	NATIONAL NATO	TOOL NUMBER
REF CODE	CATEGORY	TO MENSE AND THE	STOCK NUMBER	TOOL NUMBER
1	0	Tool Equipment TE-50B	5180-00-356-4602	
2	F, H, D	Multimeter TS - 352 B/U	6625-00-553-0142	
3	F, H, D	Electrical Power Tester AN/UPM - 100 (see note 1)	6625-00-542-1290	
4	н, D	Multimeter ME - 26 () /U	6625-00-646-9409	
5	н, р	Power Supply PP-1104B/G or equiv	6130-00-635-4900	
6	F, H, D	Tool Kit, Electronic equipment TK-105/G	5180-00-610-8177	
7	F, H, D	Bearing puller	*	
		* THE NATIONAL STOCK NUMBER THAT IS MISSING FROM THIS LIST HAS BEEN REQUESTED AND WILL BE ADDED BY A CHANGE TO THE LIST UPON RECEIPT.		
			1	
			-	
]	
			1	
Note 1: Contai	ins electrical power te	est set TS-914/U.		

B-4, Change 1

SECTION IV. REMARKS

REFERENCE CODE	REMARKS
A	Exterior and brushes
В	Repair by replacement of brushes
	·

APPENDIX C

ORGANIZATIONAL, DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL

TOOL LISTS

Section I. INTRODUCTION

C-1. Scope

This appendix lists repair parts and special tools required for the performance of organizational, direct support, general support, and depot maintenance of the PU-724/G.

C-2. General

This repair parts and special tools list is divided into the following sections:

- a. Prescribed Load Allowance (PLA) Section II. Not applicable.
- b. Repair Parts for Organizational Maintenance—Section III. A list of repair parts authorized for the performance of maintenance at the organizational level.
- c. Special Tools, Test, and Support Equipment for Organizational Maintenance Section IV. Not applicable.
- d. Repair Parts for Direct Support, General Support, and Depot Maintenance—Section V. A list of repair parts authorized for the performance of maintenance at the direct support, general support, and depot level.
- e. Special Tools, Test, and Support Equipment for Direct Support, General Support, and Depot Maintenance—Section VI. Not applicable.
- f. Index-Federal Stock Number or Reference Number Cross-Reference to Figure and Item Number or Reference Designation—Section VII. A list of Federal stock numbers in ascending numerical sequence (sec. VII.1), followed by a list of reference numbers appearing in ascending alphanumeric sequence (sec. VII.2), cross-referenced to the figure number and reference designation.
 - g. Index—Reference Designation Cross-Refer-

ence to Page Number—Section VIII. A list of reference designations cross-referenced to page numbers.

C-3. Explanation of Columns

The following provides an explanation of columns in the tabular lists:

- a. Source, Maintenance, and Recoverability Codes (SMR).
- (1) Source codes indicate the selection status and source for the list item. Source codes a r e -

ode Explanation

- P—Repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system and authorized for use at indicated maintenance categories.
- P2—Repair parts which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
- P9—Assigned to items which are NSA design controlled: unique repair parts, special tools, test, measuring and diagnostic equipment, which are stocked and supplied by the Army COMSEC logistic system, and which are not subject to the provisions of AR 380–41.
- P10—Assigned to items which are NSA design controlled: special tools, test, measuring and diagnostic equipment for COM-SEC support, which are accountable under the provisions of AR 380–41, and which are stocked and supplied by the Army COMSEC logistic system.
 - M-Repair parts which are not procured or

Code

Explanation

stocked, but are to be manufactured in indicated maintenance levels.

- A—Assemblies which are not procured or stocked as such, but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.
- X—Parts and assemblies which are not procured or stocked and the mortality of which normally is below that of the applicable end item or component. The failure of such part or assembly should result in retirement of the end item from the supply system,
- XI—Repair parts which are not procured or stocked. The requirement for such items will be filled by use of the next higher assembly or component.
- X2—Repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain same through cannibalization. Where such repair parts are not obtainable through cannibalization, requirements will be requisitioned, with accompanying justification, through normal supply channels.
- G—Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.
- (2) Maintenance codes indicate the lowest category of maintenance authorized to install the listed item. The maintenance level codes are—

Code

Explanation

- C --- Operator/crew
- 0 -- Organizational maintenance
- F--- Direct support maintenance
- H --- General support maintenance
- D --- Depot maintenance
- (3) Recoverability codes indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable. Recoverability codes are----

- R--Repair parts and assemblies that are economically repairable at DSU and GSU activities and are normally furnished by supply on an exchange basis.
- S—Repair parts and assemblies which are economically repairable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by GSU to be uneconomically repairable, they will be evacuated to a depot for evaluation and analysis before final disposition.
- T—High-dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis.

 Such repair parts normally are repaired or overhauled at depot maintenance activities.
- U—Repair parts specifically selected for **sal**-vage by reclamation units because of precious metal content, critical materials, or high-dollar value **reusable** casings or castings.
- b. Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.
- c. Description. Indicates the Federal item name and any additional description of the item required. The index number has been included as part of the description to aid in the location of "SAME AS" items. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses.
- d. Unit of Measure (U/M). A two-character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.
- e. Quantity Incorporated in Unit. Indicates the quantity of the item used in the PU-724/G. Subsequent appearances of the same item in the same assembly are indicated by the letters "REF".
- f. 15-Day Organizational Maintenance Allowances.
- (1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Subsequent appearantes of the same item will have the letters

"REF" in the allowance columns. Items authorized for use as required, but not for initial stockage, are identified with an asterisk in the allowance column.

- (2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.
- (3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51–100 allowance column. *Example*, authorized allowance for 51–100 equipments is 12; for 140 equipments multiply 12 by 1.40 or 16.80 rounded off to 17 parts required.
 - g. 30 Day DS/GS Maintenance Allowances.

NOTE

Allowances in GS column are for GS maintenance only.

- (1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the applicable allowance columns. Items authorized for use as required, but not for initial stockage, are identified with an asterisk in the allowance column.
- (2) The quantitative allowances for DS/GS levels of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.
- (3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51–100 allowance column. *Example*, authorized allowance for 51–100

equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

- h. One-Year Allowances per 100 Equipments/ Contingency Planning Purposes. Indicates opposite the first appearance of each item the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for 1 year.
- i. Depot Maintenance Allowance per 100 Equipments. Indicates opposite the first appearance of each item the total quantity authorized for depot maintenance of 100 equipments. Subsequent appearances of the same item will have the letters "REF" in the allowance column. Items authorized for use as required, but not for initial stockage, are identified with as asterisk in the allowance column.

j. Illustrations.

- (1) Figure number. Indicates the figure number in which the item is shown.
- (2) *Item number or reference designation*. Indicates the reference designation used to identify the item in the illustration.

C-4. Special Information

Repair parts mortality is computed from failure rates derived from experience factors with the individual parts in a variety of equipments. Variations in the specific application and periods of use of electronics equipment, the fragility of electronic piece parts, plus intangible material and quality factors intrinsic to the manufacture of electronic parts, do not permit mortality to be based on hours of end item use. However, long periods of continuous use under adverse conditions are likely to increase repair parts mortality.

C-5. Location of Repair Parts

- a. This appendix contains two cross-reference indexes (sees. VII and VIIX) to be used to locate a repair part when either the Federal stock number, reference number (manufacturer's part number), or reference designation is known. The first column in each index is prepared in numerical and or alphanumerical sequence in ascending order. Where a Federal stock number is listed, refer to section VII.1. Where a Federal stock number is not listed, refer to section VII.2.
 - b. When the Federal stock number is known,

follow the procedures given in (1) and (2) below.

- (1) Refer to section VII.1 (index of Federal stock numbers) or section VII.2 (index of reference numbers) and note the applicable figure and reference designation.
- (2) When the reference designation is determined, refer to the reference designation index (sec. VIII). The reference designations are listed in numericalpha ascending order and are cross-referenced to the page number on which they appear in the repair parts list (sees. III and Y). Refer to the page number noted in the index and locate the reference designation in the repair parts list (col. 7b, or col. 10b). If the description column indicates that it is a "Same as" item, locate the first appearance of the item by the index number (sequence number) referenced.
- c. When the reference designation is known, follow the procedures given in b (2) above.
- d. When neither the FSN, reference number, nor reference designation is known, identify the part in the illustration and follow directions given in c above, or scrutinize column 3 of the repair parts lists (secs. III and V).

C-6. Federal Supply Code for Manufacturers

Code Manufacturer

30887 ---- Dyna Technology, Inc.

43334 ---- New Departure-Hyatt Bearings Division, Genera] Motors Corp.

59730 ---- Thomas and Betts Co., The

70485 ---- Atlantic India Rubber Works, Inc.

75382 ---- Kulka Electric Corp.

76473 ---- Midwest Moulding and Mfg. Co.

96906 ---- Military Standards

(Next page is C-4)

SECTION **III.** REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE

(I) SMR c 008	(2) FEDERAL STOCK		DESCRI PTI ON		UNIT OF	(5) QTY INC	15-D/	(6) NY ORGA	NI ZATI	ONAL U	(a	ILLUSTRATIONS (b)
	STOCK Number	lefere	nce Number & Wfr Code	USABLE ON CODE	MEAS	INIT	a) 1-5_	(b) 3-20	(c) 1-5((d)	FIC	ITEM NO. Or reference DESTIGNATION
	6125-617-1435	A 00 1	MOTOR GENERATOR PU-724/G: (This item is nonexpendable)								1_	1A tMii
2-0	5977-617-1259	A109	BRUSH SET ELECTRICAL CONTACT : A27997 (30887		3 **	,	-	•			5	Ang. *
>-0	5975	A125	CAP ELECTRICAL: A25099 (76473)		ΞA	ž.	•	•		•	5.	45 M P4
2-0	5975	A126	CAPELECTRICAL: SAME AS A125			PEF	25.5	3513	442	SEF		1A5MPU
?-0	5977-617-1954	A127	BRUSH SET ELECTRICAL CONTACT: A27996 (30887		SET	1	٠	٠		٠	ς,	18556
							L					

AMSEL-ME For

4000 ---

FU-724/G

SECTION REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

(1) SMR	FEBERAL STOCK		U3 DESCRIPTION		14 UNIT	(51 QTY	ž0	(61 DAY DS	MAINT	3 0 _0	(7,	IA) NT	(8) 1 YR	(9) (EPOT		I LLuSTRATI ONS
CODS	NUMBE -		U:	SABLE ON	OF Mt AS	NC IN JM IT		ALLOWAN	MAINI ICE (c)	(a)	AY GS M LLOWANC L (b)	(c)	LW PE EQUIT NTGC1	LAINT _W PEI	(a, F1(NO	(b) ITEM NO. OR REFERENCE
		REFER	ENCENUMBER & MFR. CODE	3000			1-20	1-50	<u>L</u> -10	1-20	≟-5(<u>1-10</u>	#10C1	QUIP	_	DESIGNATION
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			(n. 5000 - 50 45)													*ACH4
Ki -r Ki-F		-1	SANTER TOOK: MOTOR:		7/A GA											1.4284
			i engr		×A											1.A 3M2° 1
X.1 F		4 / / / / / / / / / / / / / / / / / / /	CLAMP LIKP: 150. 00.5 CAUTO PLAT: A27410 .309011		57	1										14562
r - F	· *		COMMENTAL PROFESSION (L. P.L. 1)		5.7				-			-	4		r, .	1A331
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X2-F	x, yx,	A . 1.5	DAME AD AND TO AN A NOT DESCRIPTION OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND A NOT SERVICE OF THE SAME AND SERVICE OF THE SAME		FA											1 A 5H *
X2-F	. 504.	A. 4	2 YOM MACHINE: DIME AS AD 3		FLA	F										1A 5H4
XC -F		A215	WASSES LOCK: SAME AS AUST		EA	2										1 A 3H5
X2-F		Al G	WASHER LOCK: SAME AS ADDIT		FA	VE.										1.A 3HO
M-1)		A /1"	ONTER BOX PILITER: 027545 (50887)		EA	1										1.A SMP 5
A - F' - 1		Stria	FILTER ASSEMBLY: 727434 (30887)		EA	1										1,4471
P-F	.1 .,<	A119	CAPACITOR FIXED FARER DIFLECT: A27447 (30887)		;_A	1		•		•			4		5-	1A4C1
X2-F	551 - 013-453	ACC I	NOT PLAIN TOXAGON: MS \$1649=62 (96906)		EA	1										1A4H1
X2-F	/.∰.k.	ar 1	SCREW MACHINE: MS 35 45 /		5/A	-										
X2-F	*1	A C	WALSER LOCK: MC #5 45H (No you)		F.A											1 A 4H.*
P-F	py 10 = 171 = ,196	Atte *	CAPACITY + PIXED PAPER DISLUC:		FLA						•	•	5		r _{>} .	1,4402
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1'-1		A Silv	TARACITOR FIXED PARTE DIFLECT: APPARE (APERT)		EA	1		٠	•	•	•		5		E.	1A403
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χ.2 - F	2.14	A 11 1	CONTENT MACHINE: CAME ALL AD21		rsA:	F										1 A 4H4
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SECTION V. REPAIR PARTS FOR DIRECT SUPPORT GENERAL SUPPORT AND DEPOT MAINTENANCE (CONTINUED)

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5 15 500 500 500 500 500 500 500 500 500	0-656-2349 0-496 8548 0-496 8548 0-496-8548 0-496 8548	,7 034 035 036 037 038 039 040 0,041 ,042 1,044 1,044 1,045	NUT PLAIN HERAGON: SAME AS ACCC SCREW MACHINE: SAME AS ACCC COLL RADIO PRECIENCY: A72425 (30887) INSILATOR STANDOFF: J27340 (30887) MASHER LOCK: A5746 (30887) MASHER FLAT: A27724 (30887) MASHER FLAT: A27724 (30887) MASHER LOCK: A5746 (30887) MASHER LOCK: A5746 (30887) INSILATOR STANDOFF: SAME AS ACCCC INSULATOR STANDOFF: SAME AS ACCCC INSULATOR STANDOFF: SAME AS ACCCC INSULATOR WASHER: A27441 (30887) INSULATOR WASHER: A27441 (30887) INSULATOR WASHER: A27444 LEAD FLECTRICAL: A27424 (30887)	FA FA FA FA FA FA FA FA FA FA FA FA FA F	F F F 5 5 5 9 9 1 1 SIF CEP 4 EEP 1	•20	<u>-50</u>	•	•	-50		4	ч	5.1	DESIGNATION 1A4H112 1A4H13 1A4H13 1A4E1 1A4E1 1A4H14 1A4H15 1A4H16 1A4E2 1A4E2
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F 970 F 305 F 505 F 305 950 F 970 F 970 F 970 F 970 F 3310 F 5310	0-496 8548 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	037 038 039 040 0,041 ,042 1043 1044 1045	A72425 (308F) INSULATOR STANDOFF:27340 (308F) WASHER FLAT: A27724 (308F) WASHER LOCK: A5746 (308F) WASHER LOCK: A5746 (308F) WASHER LOCK: A5746 (308F) INSULATOR STANDOFF: SAME AS A037 INSULATOR STANDOFF: SAME AS A037 INSULATOR WASHER: A27441 (308F) INSULATOR WASHER: A27441 (308F) INSULATOR WASHER: A27441 (308F) INSULATOR WASHER: A27441 (308F) INSULATOR WASHER: A27424 (308F) INSULATOR WASHER: A27424 (308F) INTURATOR WASHER: A27424 (308F)	SA EA	5 9 9 1 EF 6F 4 EP										1A4E1 1A4H14 1A4H15 1A4H16 1A4L2 1A4E2
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-F 305 950 -F 970 -F 5310 -F 5310 -F 5310	5 0-496-2350 0-496-8548 0-496-8548 0	040 ,041 ,042 ,043 ,044 ,045	WASHER LOCK: A5746 (3087) COIL RADIO FREQUENCY: A27412 (3087) INSULATOR STANDOFF: SAME AS A037 INSULATOR STANDOFF: SAME AS A037 INSULATOR VASHER: A27441 (3087) INSULATOR WASHER: A274441 (30847) NUT PLAIN HEMAGON: A5483 (30887)	EA EA A EA EA EA	9 1 SF SF 4 EP 1	•	•	•	•	•	•	4	rt.	5-1	1A4H16 1A4L2 1A4S2 1A4S3
950 -F 970 -F 970 -F 970 -F 970 -F 970 -F 5310 	0-656-2350 0-496-8548 0-496-8548 0	,041 ,042 ,043 ,044 ,045 ,046	COIL RADIO PREQUENCY: A27412 (30687) INSULATOR STANDOFF: SAME AS A037 INSULATOR STANDOFF: SAME AS A037 INSULATOR VASHER: A27441 (30687) INSULATOR WASHER: A27441 (30687)	EA 'A EA EA EA EA	1 SF SF 4 EF	•	•	•	•	•	•	4	4	5-1	1 A4L2 1 A452 1 A4E3
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-F 970 -F 970 -F 970 -F 3310 -F 3310	0-496 8548 0	1043 1044 1045 1046	SAME AS A037 INSULATOR STANDOFF: SAME AS A037 INSULATOR VASHER: A27441 (30847) INSULATOR WASHER: A27441 (30847) INSULATOR WASHER: A27424 (30847) NUT PLAIN HEMAGON: A5483 (30887)	EA EA EA	2F 4 EF										1A4E3
-F 970 -F 970 F 3310 -F 3310	0	1044 1045 1046	SAME AS AC37 INSULATOR WASHER: A27441 (3087) INSULATOR WASHER: SAME AS AC44 LEAD FLECTRICAL: A27424 (30847) NUT PLAIN HEXAGON: A5483 (30887)	EA EA	4 EP										
-F 970 F 3310 -F 3310 -F 3310	0	1045 1046	(30847) INSULATOR WASHEP: SAME AS AC44 LEAD ELECTRICAL: A27424 (30847) NUT PLAIN HEXAGON: A5483 (30887)	EA EA	EP 1										1 A4E4
F 5310 2-F 5310 2-I 5310		1046	SAME AS AC44 LEAD ELECTRICAL: A27424 (308:7) NUT PLAIN HEXAGON: A5483 (30887)	EA	1										l .
5310 -F 5310 2-I 5310	o		(30847) NUT PLAIN HEXAGON: A5483 (30887)					1					l		1 A4E5
9-E 5310 9-E 5310	2	A047	(30887)	EA	8	1									1 <u>A4W</u> 1
9-1 5310					Ī										1A4H17
	0	A048	NUT PLAIN HEXAGON: SAME AS A047	EA	EF										1A4H18
2-1 5310	10	A049	NUT PLAIN HEXAGON: SAME AS A047	EA	EF										1A4H19
	10	A050	NUT FLAIN HEXAGON: SAME AS A047	EA	EF										1 A4H20
2-1 530	ys	A05 1	SCREW MACRINE: SAME AS A038	EA	ŒF										1A4H21
2-1 530	95	A052	SCREW MACHINE: SAME AS A038	EA	EF										1A4H22
530	05	A053	WASHER FLAT: SAME AS A039	EA	EF										1A4H23
- 530) 05	A054	WASHER PLAT: SAME AS A039	EA	Œ										1 A4H24
- 530	05	A055	WASHER FLAT: SAME AS A039	EA	ŒP										1 A4H25
2- 530	05	A056	WASHER FLAT : SAME As A039	EA	ŒP										1 A4H26
2- 530		A057	WASHER LOCK: SAME As AO40	EJ	ŒF										1A4H27
- 530		A058	WASHER LOCK : SAME AS A040	EJ	ŒF										1 A4H28
530		A059	WASHER LOCK : SAME AS A040	EJ	æp										1 A4H29
2- 530		A060	WASHER LOCK : SAME AS A040	EJ	ÆF										1 A4H30
	us 25-290-4344	A061	GROMMET RUBBER: 1787 (70485)	EJ	2										1 4426
532	25-290-4344	A062	GROMMET RUBBER: SAME AS AD61	E	REP										1 A4E7
2 - 597	70-496-8548	A063	INSULATOR STANDOFF: SAME AS A037	E	REF										1 A4E8
2- 597	70	A064	INSULATOR WASHER : SAME AS A044	Е	REF										1 A4E9
2 - 531	10	A065		E	REF										1 A4H31

SECTION V. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

SMF COD:	(?) Federal Stock Number		(3) DESCRI PTI ON		UNI OF	(5)) OTY INC I	30-	(6) DAY DE ALLOW	AINT E	30-	(7) Y GS LOWAN	MAINT	(8) 1 Yi LW Pi	(9) EPO IAN	<u>(a</u>	I LLUSTRATIONS
	NUMBER	REFE	RENCE NUMBER & MFR. CODE	USABLE ON CODE	ME A	UNIT	(a) 1-20	(b) 21-5	(c)	(a) 1-20	(b) 21-5	(c) 1-1(NTGC	.WP 100 QU11	ři MG	ITEM NO," OR REFERENCE SIGNATION
X 2-1	5410	AUOC	NUTFLA IN HEXAGON: SAME AS A047		EΑ	나타										1 A4H32
X2-I	5305	A >67	SCREW MACHINE: SANE AS AO36		EA	REF										1 A4H33
72- I	5,305	A068	WASHER FLAT: SAME AS A039		EA	REF										1 A4H34
X2- I	5305	A069	WASHER FLAT: SAME AS A039		E.A	HE F										1A4H35
1 2- I	5305	A070	WASHER LOCK : SAM AS A040		EA	REF										1 A4H36
X2-I	5305	A071	WASHER LOCK: SAME AS A040		EA	REF										1 A4H37
X 2-F	5970-496-8548	A072	INSULATOR STANDOFF : SAME AS A037		EA	REF										144610
12- F	5970	A073	INSULATOR WASHER : SAME AS A044		EA	REF										1A4E10
U-D		A074	LEADELECTRICAL: A27428 ,308871		EA	1										1 A4W2
1 2-F	5310	A075	NUT PLAIN HEXAGON: SAME AS A047		EA	REF										1 A4H38
(2-F	5310	A076	NUT PLAIN HEXAGON: SAME AS A047		EA	REF										1 A 4H39
(2-F	5305	A 077	SCREW MACHINE: SAME AS A038		EA	REF										1 A4H40
(2-F	5305	A078	WASHER FLAT : SAME AS A039		EA	REF										1A4H41
2-F	5305	1079	WASHER FLAT: SAME AS A039		EA	REF										1 A4H42
2-F	5305	1080	WASHERLOCK : SAM? AS A040		EA	REF										1A4H43
2-F	5305	1081	WASHER LOCK, SANE AS A040		E.A	REF										1 A 4H44
P-F	5940.983.6043	1082	TERMINAL BOARD: 602M2F (75382)		EA	1	•	•	•	•	•	•	5	7	5.	1 A4TB1
(2-F	5305	1083	SCREW MACHINE : MS35359-46 (96906)		LA	4										1A4H45
(2-F	5305	1084	SCREW MACHINE: SAME AS A083		E.A	REF										1 A4H46
(2-F	5305	4085	SCREW MACHINE : SAME AS A083		EA	REF										1 A4H47
2-F	5305	1086	SCREW MACHINE : SAME AS A083		E.A	REF										1 A 4H48
2-F	5310	1087	WASHER FLAT : A6631(30887)		EA	4										1A4H49
2-F	5310	1088	WASHER FLAT: SAME AS A087		EA	REF										1A4H50
2-F	5310	1089	WASHER FLAT : SAME AS A087		EA	REP										1A4H51
2-F	5310	1090	WASHER FLAT : SANE AS A087		EA	REP										1 A4H52
2-F		1091	WASHER LOCK: SAME AS A007		EA	4										1 A4H53
2-F		1092	WASHER LOCK : SANE AS A007		EA	REF										1 A4H54
(2-F		1093	WASHER LOCK : SANE AS A007		EA	REP										1A4H55
(2-F		1094	WASHER LOCK : SAME AS A007		EA	REF										1 A 4H56
I-D		1095	BRACKET MOUNTING FILTER: B27420 (30887)		EA	1										1A4MP1
-D-		1096	MOTOR GENERATOR LESS FILTER: C27386 (30887		EA	1										1 A5M G
1-D		1097	COVER ELEC CONT BRUSH ACCESS: A27375 (30887)		EA	2										1.85MP1
¶-D		1098	COVER ELEC CONT BRUSH ACCESS: SAME AS A097		EA	REF										1. 45MP 2
(2-F	5970	1099	insulation SHEET ELECTRICAL : A27376 (30887		EA	2										1A5E1
2 - F	597 C	1100	INSULATION SHEET ELECTRICAL: SANE AS A099		EA	REF										1A5E2

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SECTION V. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

		SECTION V. REPAIR PARTS FOR	DIKECI		UKI,	GEINI		JUFF	UKI,		DELLO				
(1) SHR COOE	(2) Federal Stock	(3) Description		UNIT OF	OTY INC IN UNIT	30-0	(6) AY DS M ALLOWANG	IAI NT	3 0 -0	(7) AYGS M/ LLOWANC	LINT	(8) JYR ALWPER	(9) DEPOT MAINT	(a)	(IO) ILL USTRATIONS (b)
	H LMB ER	REFERENCE NUMBER&NFR.CODE	USABLE 014 CODE	MEAS	ÜÑIT	(a) 1-20	(b) 21-50	(c)	(a)	(b) 21-50	(c) 51-1 0 0	ALWPER EQUIP CNTGCY	ALW PER 100 EQUIP	FIG NO.	I TEM NO. OR REFERENCE DESIGNATION
1 2-F	5305	ALCI, SCREW MACHINE: SAME AS A003		EA	4										145년1
12-F	5305	A102 SCREW MACHINE: SAME AS A003		EA	REF										1A5H2
12-F	5305	A103 SCREW MACHINE: SAME AS A003		F.A	REF										1 A5H 3
X2-F	5305	A104 SCREW MACHINE : SAME AS A003		£.A	HEF										1 A 5H4
12-F		A105 WASHER LOCK: SAME AS A004		E.A	4										1 A5H5
X2-F		A106 WASHERLOCK: SAME AS A004		E.A	REF										1 A5116
12-P		A 107 WASHER LOCK : SAME AS A 004		EA	REF										1 A5H7
12-F		A 108 WASHER LOCK: SAME AS A 004		EA	REF										1 A5H8
P-o	5977-617-1259	A109 BRUSH SET ELECTRICAL CONTACT: A27997 (30887)		SET	1	•	•	•	•	*	•	5	20	5-1	1A5E3
хI		A110 BRUSH ELECTRICAL CONTACT: A27243 (30887)		EA	1										1A5E4
хI		A111 BRUSH ELECTR ICAL CONTACT: A27243-1 (30887)		EA	1										1 A5E5
12-F	5305	A112 SCREW MACHINE: SAME AS A003		EA	4										1A5H9
12-F	5305	A113 SCREW MACHINE: SAME AS A003		EA	REP										1A5H10
12-F	5305	A114 SCREW MACHINE : SAME AS A003		EA	REP										1A5H11
12-F	5305	A115 SCREW MACHINE: SAME AS A003		EA	REP										1A5H12
12-F		AI 16 WASHER LOCK: SAME AS A007		EA	4										1A5H13
12-F		A117 WASHER LOCK: SAME AS A007		FA	REP										1A5H14
X2-F		A118 WASHER LOCK: SAME AS A007		EA	REP										1A5H15
12.P		A119 WASHER KICK: SAME AS A007		EA	REP										1A5H16
U-D		A120 COVER PLATE ACCESS: A27377 (30887)		EA	1										1 A5MP3
12-F	5305	A121 SCREW MACHINE ROUND HEAD: MS 35357-77 (96%%)		EA	2										1A5H17
X2-F	5305	AI 22 SCREW MACHINE HOUND HEAD: SAME AS A121		EA	rep										1A5H1B
12-F	5310-582-5965	A1 23 WASHER LOCK : MS35338-44 (96906)		EA	2										1 A5H 19
X≥-F	531 0 -582-596 5	A124 WASHER LOCK: SAME AS A123		EA	REP										1 A5H20
P-0	5915	A125 CAP ELECTRICAL: A25099 (76473)		EA	2	٠	•	1	•	•	1	10	7	5-1	1 A5MP4
P-0	5975	A126 CAP ELECTRICAL: SAME AS A125	•	EA	REP	REP	REP	REP	REP	REP	REP	REF	REP		1 A5MP5
P-o	5977-617-1954	A127 BRUSH SST ELECTRICAL CONTACT: A27936 (30887)		SET	1	٠	•	1	•	•	1	8	20	5-1	1A5E6
X 1		A128 BRUSH ELECTRICAL CONTACT: A27339 (30887)		EA	2										1 A5E6
K1		AI 29 BRUSH ELECTRICAL CONTACT: SAME AS A128		EA	REP										1 A5E7
A-P-B		A130 END BELL ASSEMBLY - INPUT: C27353 (30887)		EA	1										1.A6MP1
12-P		A131NOT PLAIN HEXAGON: MS35650=102 (96906)		EA	*										1 A5H 4
12-F	5305	A132 SCREW MACHINE: A26965 (30887)		EA	4										1 A5H4
12-F	5310-045-3296	A133 WASHER LOCK: MS35338-43 (96906)		EA	4										1 A5H4
12-P	6125	A134 STRIP CONNECTING ELECTRICAL: A40941-1 (30887)		EA	1										1 A6W1

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SECTION V. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

(i) SHR	FEDERAL STOCK		DESCRIPTION		UNIT OF	(5)	20	(6)			(7)		(8)) I YR	(9) DEPOT		(lo)
CODE	STOCK Number			USABLE ON	OF ME AS	OTY INC II UNIT		ALLOWAN	α		GS I		LW PER Equip	MAINT ALW PE	(a) F1((b) TEM NO. OR
		REFER	RENCE HUMBER & MFR. CODE	CODE			(a) I-20	11-2K	(c) <u>I-10</u>	(a) 1-20	1	(c) [-10	MTGCY	EQUIP	No —	REFERENCE DESIGNATION
P-F	:-10-577-9125	A135	APACITOR FIXED PAPER (1 ELEC : A40877 (30887)		EA	1"	•	•	*	•	٠	•	5	7	5-	1 A 6C1
12-F		A 1.5c	NUT F LA IN HEXAGON : SAME AS A131		FA	1										1 A6H1
X 2-F	305	A 1 37	SCREW MACRINE: MS35359-64 (96906)		EA	1										1 A6H2
X2-F	310	A 1 328	WASHER LOCK: MS35335-16 (96906)		EA	1										1 a 6H3
P-F	977-409-0908	A139	HOLDER ELECTH IC AL CONT BRUSH : A27357 (30887)		EA	1	•	•	٠	•	•	•	4	2	5	1 A6MP 2
X 2-F	305	A140	SCREW MACHINE: A27 390 (m)		EA	4										1 A6H4
X2-F	305	4141	SCREW MACHINE: SAME AS A140		EA	EF										1A6H5
X2-F	310	A142	WASHER PLAT : ~25551 (30887)		EA	4										1 A 6H6
X2-F	31.	A143	MASHER FLAT: SAME AS A142		E.A	EF										1A6H7
X 2-F	310-045-32%	A144	WASHER LOCK : SAME AS A133		EA	4										1а6н8
X2-F	310-045-3296	A145	WASHER LOCK : SANE AS A133		EA	EF										1 A6H 9
P - F	977-409-5109	A146	HOLDER ELECTRICAL CONT BRUSH: A27381 (30887)		EA	1	•		*		٠	•	4	2	5-	1 A6MP3
X2-F	305	A147	SCREW MACHINE : A27389 (30887)		EA	2										1 A 6H10
X2-F	305	A148	SCREW MACHINE: SAME AS A147		EA	EP										1A6H11
M-D		A149	PLATE MOUNTING: A8697 (30887)		EA											1 A6MP4
12-F	305	A150	SCREW MACHINE: SAME AS A140		EΑ	EF										1A6H12
1 2-F	305	A151	SCREW MACHINE : SAME AS A140		EA	EP										1A6H13
12-F	310	A152	WASHER FLAT: SAME AS A142		EA	EP										1A6H14
12-1		A153	WASHER FLAT: SAME AS A142		EA	EF										1A6H15
12-P	310-045-3296	6154	WASHER LOCK : SAME AS A133		EA	EF										1 A 6H16
х2-г	310-045-3296	A155	WASHER LOCK : SAME AS A133		EA	Z.P										1 A6 H17
M-D		A156	SCREEN PROTECT IVE: B27368 (30687)		EA	1										1 A6MP 5
X 2-F	305	A15?	SCREW MACHINE: MS 35 559-26 (96906)		EA	2										146н18
X 2-F	305	A158	SCRUW MACHINE: SAME AS A157		EA	EF										1 A6 H19
X2-F	310	A159	WASHER LOCK: MS35335-30 (96906)		EA	2										1 A6H20
X2-F	310	A160	WASHER KICK: SAME AS A159		ΞA	E?										1 46H21
M-D		A161	END BELL-INPUT: 027380 (30887)		EA	1										1 A6MP6
M-D		A162	END BELL ASS EMBLY-OUTPUT : B27352 (30887)		EA	1										1 A7M P1
P-F		A163	CAPACITOR PIXED MICA DIELECTRIC: A27395 (30887)		FA		•	•	4	•	٠	•	5	*	5-	1A7C1
X2-F	995	A164	LEAD SLECTRICAL: A27396 (30887)		EA	1										1 A7W 1
X 2-F	995	A165	LEAD ELECTRICAL : A27398 (30887)		EA	1										1 A7W2
12-F	305	A166	SCREW MACHINE: SAME AS A 2003		EA	2										1 A7H1
X2-F	305	A167	SCREW MACHINE: SAME AS A003		EA	EF								1		1 A7H2
								L _			L			<u> </u>		

SECTION v. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED

		SECTION v. REPAIR PARTS FOR DIRECT		. 	GLIVI		3011	UKI,	י שווח	JLI U			ANCL	•
(i) SMR CODE	(2) FEDERAL STOCK	(3) DESCRIPTION	(4) UNIT OF	(5) QTY	30-	(6) DAY DS MA	INT	30-[GS I CWAN(NT	(8) YR	(9) EPOT AINT	(a)	(IO ILLUSTRATIONS (b)
	MUMBER	USABIFON REFERENCE NUMBER & MFR. CODE CODE	HEAS	IC IN JNIT	(e)	ALLOWANCE (b)	(c)	(a) -20	(b)	(c)	W PEF OUTF NTGCY	W PL R 100 QU I P	FIG NO,	I Tem no, or Refere nce
X2-F			 	-	<u>1-20</u>	1-50	L=10(-20	<u>I</u> -50	-1 00	_	Ψυ,,	-	DESIGNATION
X2-F		1168 WASHER DOK: SAMP 42 1007	82A 82A	Ĭ										1A 14
X2-F	277	UTO HOLDE , 2200R, CALCONT	ĽΑ	1										'A '11.
		BRUSH: A2'35+ ,3089	l											
X2-7		1171 151 3205W: MS51017-34 (90906)	-44	'										**713
X 2- F	977	A172 HOLDER ELECTRICAL CONT BRUSH: A27373 (50887)	ÈÀ	1										1A7MP3
X2- F		1173 SET SCREW : SAME As A171	A.2											(A7 (t)
M-L		1174 SCREEN PROTECTIVE: A27 370 (30837)	±Α	2										1A7MP4
X2-F	305	A175 SCREW MACHINE: SAME As A157	£Α	4										18797
1 2-F	305	1176 SCREW MACH INE : M335359-25 (96906)	EA	4										1A H ^A
X2-F	310	4177 WASHER LOCK: SAME AS A159	EA	۴										1 A7 H9
12-F	3:0	1178 WASHEN LOCK: SAME AS A159	F.A	EF										1 A 7H10
M-D		1179 SCREEN PROTECTIVE : SAME AS A174	EA	EP										1A7MP5
12-F	305	A190 SCREW MACHINE: SAME As A157	£A	EF										187/111
X 2-F	305	A181 SCREW MACRINE: SAME AS A176	EA	£ F										1A7H12
X2-F	310	1182 WASHER LOCK: SAME As A159	EA	EF.										1A7H13
12-F	310	A183 WASHER LOCK : SAME As A159	EA	EF										1A7H14
M-D		A184 SCREEN PROTECTIVE: B27369 (30887)	£A.	1										1 A71/1 P 6
1 2-F	305	1185 SCREW MACHINE: SAME As A157	EA	EF										1A7H15
X 2-F	305	A186 SCREW MACHINE: SAME AS A157	EA	EF										1A7H16
12-P	30 5	1197 SCREW MACHINE: SAME A3 A176	EA	E.P										1A7H17
12-P	305	1188 SCREW MACHINE: SAME A3 A176	EA	EF										1A7H1B
12-F	310	A189 WASHERLOCK: SAME AS A159	EA	æF										1A7H19
12-P	310	A190 WASHER LOCK: SAME AS A159	EA	EP										1 A7H20
12-P	310	A191 WASHER LOCK: SAME AS A159	EA	E₽										1A7H21
X 2-P	310	A192 WASHER LOCK: SAME As .4159	EA	EF										:A7H22
M-D		A193 END BELL-OUTPUT: B27669 (30887)	EA	1										1 A7MP7
A-D-F		A194 ARMATURE ASSEMBLY: C26962 (30887)	EA	1										1A8E1
P-D	125-4 08-2615	A195 ARMATURE: C26962-1 (30887)	EA	1							4	2	5-1	1 A8E2
P-D	110-156-3471	A196 BEARING BALL ANNULAR: 88502 (43334)	EA	1							4	2	5-1	1A8MP1
P-D	110-156-3502	A197 BEARING BALL ANNULAR: 88503 (43334)	EA	1							4	2	5-1	1A3MP2
M-D		A198 BAPPLE FAN: B27363 (30887)	EA	1										1,88м1296
A-D-i		A199 HOUSING ASS-Y: C27387 (30887)	EA	1										1 A9MP
12-F	995	A200 LEAD ELECTRICAL: A27400 (30887)	ZA	1										1A9W1
12-P	125	201 HOLDER FIELD A27379 (30887)	EA	2										1A9MP1
M -D		1202 INSULATION SHFST ELECTRICAL: a27378 (30887)	EA	4										1 A9E2
	L			. –	·		. —	_	- '	- 1		_	. – –	ESC-621 0 534-65

SECTION V. REPAIR PARTS FOR DIRECT SUPPORT; GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

	· · · · · · · · · · · · · · · · · · ·	SECTION V. REPAIR PARTS FOR DIRECT	_											,
(1) SMR CODE	(2) FEDERAL STOCK	(3) DE SCRIFTON	UN I OF	(5) CTY	30	(6)	AINT E	30-	r GS N	AINT	(8) 1 YI .W PE	(9) DEPO MIN	(<u>a)</u>	(IO) ILLUSTRATIONS (b)
	NUMBER	REFERENCE HUMBER L MFR. CODE USABLE OF CODE	MEAS -	KĆ II UNIT	(a) 1-20	(b) 21-50	(c) 1-10	(a) <u>I</u> .20		(c) 1-10	NTGC	00 100 100	FIG MO.	ITEM NO. OR REFERENCE DESIGNATION
M -D		(203 INSULATI ONSHET ELECTROPAL SAME AS A202	LA	E.									- 1	1 A9E3
X2-F	125	1204 HOLLIER FIELD: SAME AS A201		a										1 A 9MP2
M-D		1205 INSULATION SHEET ELECTRICAL: SAME AS A202	£											1 A9E4
M-D		1206 INSULATION SHEET FALL: SA 19 AS A202	,	Ec										
X2-F	44 ـ 125-235	207 WINDING PIELD: 128001 (30681)	1.*	1										1A9L1
X2-F	340	.206 GROMMET RUBBER: 2533 (70485)	F7	2										1 A986
X2-F	340	.2.9 GACMMET PUBBER: SAME AS A208	ښ.	F N										1 A9E 7
M-D		.210 HOUSING: 526963 (36090)	A	1										1A9MP3
				_					_		_			

SECTION vii.1 INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION

FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF. DESIGNATION	FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF. DESIGNATION
3110-156-3471 3110-156-3502	5-1 5-1	1A8MP1 1A8MP2			
5310-013-4530 5310-013-4530		1A4H1 1A4H8			
5310-013-4530		1A4H11	ļ	'	
5310-045-3296		1A5H4 1A6H8		! '	
5310-045-3296 5310-045-3296		1A6H9		1.1	
5310-045-3296	1	1A6H16	ļ.	1	
5310-045-3296	i i	1A6H17	Ļ		
5310-582-5965 5310-582-5965		1A5H19 1A5H20	•		
5325-290-4344		1A4E6	•	,	I
5325-290-4344		1A4E7	•		
5910-171-2952 5910-577-9125	5-1 5-1	1A4C2 1A6C1	•		
5910-577-9293	5-1	1A4C1	•		
5935-660-3825	5-1	1A3J1	•		
5940-983-6043	5-1 5-1	1A4TB1 1A4L1	•		
5950-656-2349 5950-656-2350	5-1	1A411	•		
5970-496-8548	-	1A4E1	•		
5970-496-8548		1A4E2	•		
5970 -496-8548 5970 -496-8548		1 ^4 53 1 ^4 58	•		
5970-496-8548 I		1A4E10	•		
5975-152-1144	!	1A3MP1	1		
977-409-0908	5-1	1A6MP2			
5977-409-0909 5977-617-1259	5-1 5-1	1A6MF3 1A5E3			
5977-617-1954	5-1	1A5E6	į		
5125-235-4494		14911	i		
5125-408-2615 5125-617-1435	5-1 1-1	1A8E2 1A1MG	!		
1125-017-1455	1-1	TAING	į		
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material later on 909.	# FU-/44/G			1	ESC#M 4535-46

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SECTION VII. INDEX-REFERENCE NUMBER CROSS REFERENCE

TO FIGURE NUMBER AND REFERENCE DESIGNATION ITEM NUMBER

REFERENCE	MFGRS.	FIG.	REF. DESIGNATION		REFERENCE	MFGRS.	FIG.	REF. DESIGNATION
NO.	CODE	NO.	OR ITEM NO.	▃▏▐▍▔┻	NO.	CODE	NO.	OR ITEM NO
A25099	76473		1.A5MP4		A27724	* 30887		1A4H06
A25099	76473		LA5MP5			30887		
A25551	30887		1A6H6	i la la la la la la la la la la la la la	A27724			T₩H₽Ğ
	30887		la6H7		A27724	308ê7		1A-E54
A 2 5551					A27724	30887		1A4H3;
A25551	30887		1 A 6H14		A27724	3:487		14441
A25551	30887		1 46H 15	:	A27724	30887		1A4H40
A26965	30887		1A5H4		A40941-1			
A27243	30887		LA5E4	:		30887		1AGW1
	30887		1A5E5		A5483	30887		1.44151.7
A27243-1					A5483	3∩387		1A4H15
A27339	30887		1A5E6		A5483	30887		1 A ^L ID'+
A27339	30887	1 1	1.A5E7		A5483	30887		TA4H20
A27356	30887		1. A7MP 2		A5483	30887		
A27370	30887		1A7MP4					1A4F51
A27370	30887		LA7MP5	1	A5 483	30887		1 A 4H32
MC1710	30887			1	a 5483	30887	ı	1а4н58
A27373	20007		LA7MP3		a5483	30887	Į.	LA4H*9
A27375	30887		1.A.5MP1	1	A5746	30887		1A4:EL6
A27375	30887		1.A5MP2		A5746	30887		1A4H27
A27376	30887		1A5E1		A5746	30887		
A27376	30887		1A5E2					TV#H58
	30887	i i i			A5746	30887		1 A4H2O
A27377			1A5MP3	1	A5746	30387		1A4H750
A27378	30887	1 1	1A9E2		A5746	30887		LA4H3€
A27378	30887		1 A 9E3	i la la	A5746	30887	i	1A4H37
A27378	30887		1A9E4					
A27378	30887		1A9E5		A5746	30887		1A4H43
A27379	30887	i ! !	1A9MP1	1 1	a5746	30887	1	1A4H44
12/3/9	20007				a6631	30887		1A4H49
A27379	30887	1	LA9MP2	4	a6631	30887		1A4F50
A27389	30887		1 A6H1 0		A6631	30887		1.447/51
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127390	30887		1 . 6H4	: 	A8697			1A4H52
127390	30887	i [1A6H5	1 11 1		30887		1A6MP4
	30887	1 1	1A6H12		B26963	30887		17 4E3
A27390					B27352	30887		1ACMP1
\ 27390	30887	- 1	1 a 6H13		B27363	30887		148:46
127395	30887	5-1	la7Cl		B27368	30887	ĺ	1A6MP5
127396	30887		1A7W1	!	B27369	30887		1A7MP6
127398	30887	:	1A7W2		B27420	70007		
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127416	30887			į l	B27669	30887		la7MP7
			1A3H2		B27999	30887		1A2FL
127424	30887		la4wl	i	B28000	30887		LA 3MT
127428	30887		la4w2		c26962	30887		1AdE1
127438	30887	5-1	1 A 4C4	i	C27345	30887		
127441	30887		LA4E4				1	1.A3MP3
127441	30887	į į	1A4E5		C27353	30887		1 A 6MP1
127441	30887	i i	1A4E9	i	C27380	30887		lagmeg
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127441	30887	1	1A4E10	1	C27387	30887		1 A OMP
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127443	30887		1A4H21					1A6H3
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 1 +- 7	10001	: 1 1	TU-LITE A		MS35335-30	1 : 96906		1A6H21

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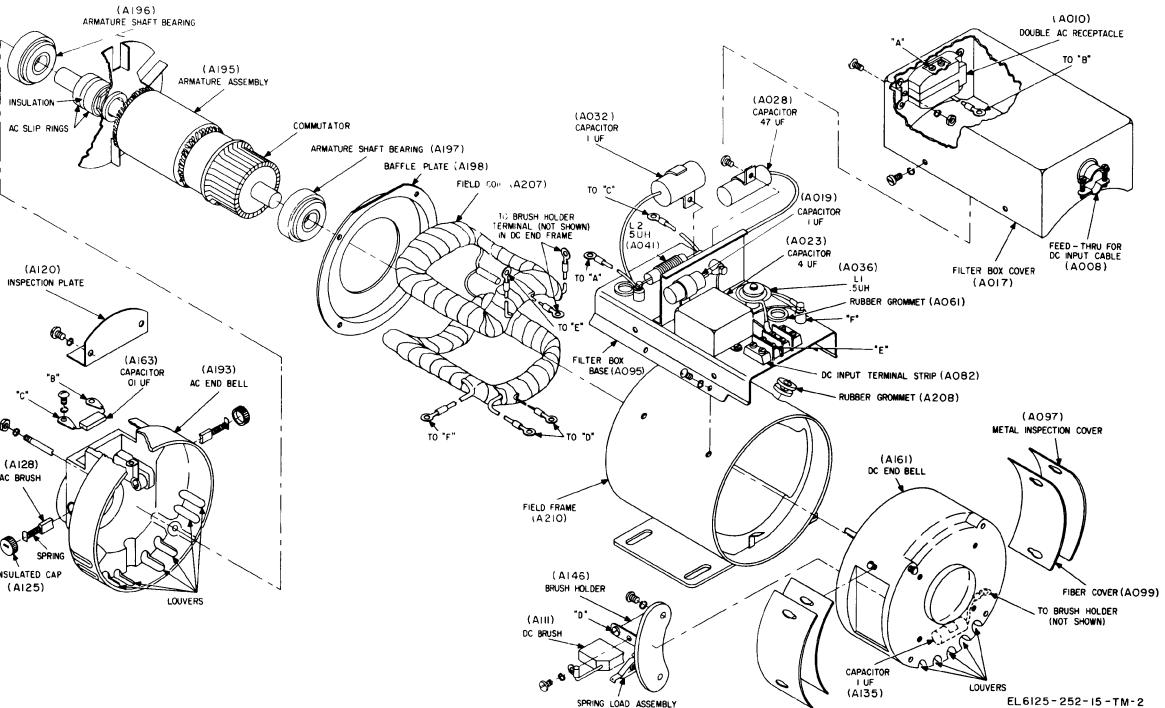


Figure 5-1. M. for generator, exploded view.

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