TM 11-4940-480-14

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT

AND

GENERAL SUPPORT MAINTENANCE MANUAL

ELECTRONIC SHOP, TRANSPORTABLE

AN/TSM-126A

HEADQUARTERS, DEPARTMENT OF THE ARMY
1 MAY 1981

WARNINGS

- **HIGH VOLTAGE**
  is used within the shelter.

- **DEATH ON CONTACT**
  may result if operating personnel fail to observe safety precautions.

- **EXTREMELY DANGEROUS VOLTAGES**

  EXIST IN THE AC DISTRIBUTION SYSTEM.
  Be careful when working on or near the power connections.

- **DON'T TAKE CHANCES!**
  Do not be misled by the term "low voltage." Potentials as low as 50 volts may cause

- **DEATH**
  under adverse conditions.

- **VENTILATION IS ESSENTIAL**
  To prevent asphyxiation, the shelter must be ventilated at all times when occupied.

  For Artificial Respiration, refer to FM 21-11.

WARNING

Adequate ventilation should be provided while using TRICHLOROTRIFLUOROETHANE. 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 TRICHLOROTRIFLUOROETHANE 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.

TCHNICAL MANUAL
No. 11-4940-480-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, *1 May 1981*

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL

ELECTRONIC SHOP, TRANSPORTABLE AN/TSM-126A

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to: Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL—ME—MQ, Fort Monmouth, NJ 07703.

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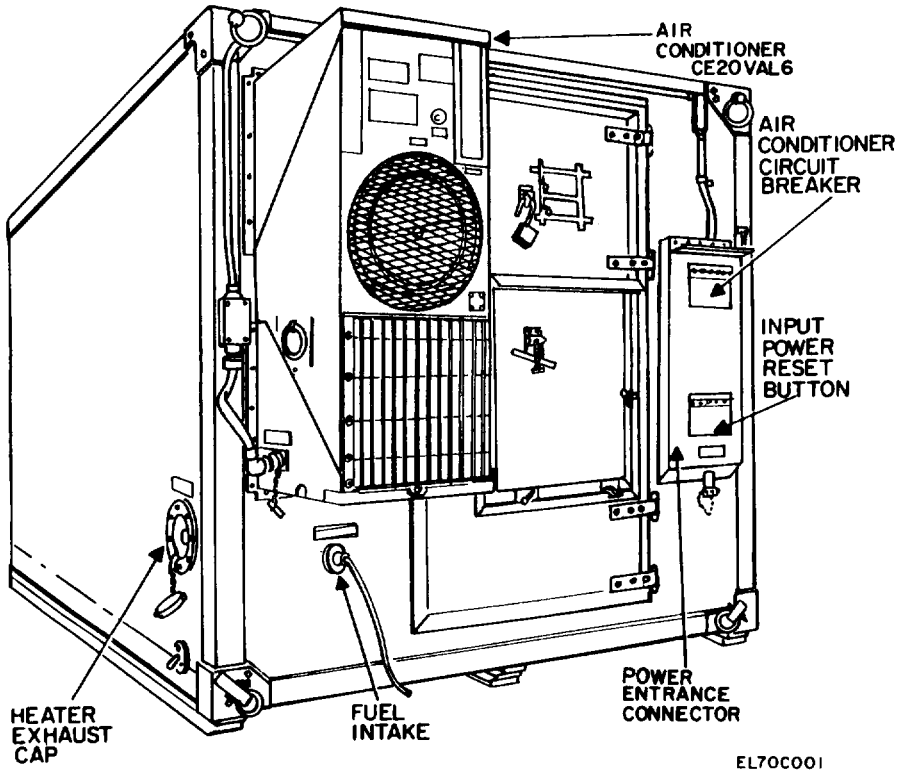

Figure 1-I. S-280B/G Shelter (modified), rear view.

CHAPTER 1
INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual describes Electronic Shop, Transportable AN/TSM-126A which accommodates special test equipment required to maintain Interrogator Set AN/TPX-50. It covers installation, operation, and maintenance of the AN/TSM-126A including interconnection of transportable power generators which provide operating power. It also identifies and locates special test equipment inside the shelter.

b. Existing technical manuals covering the equipment used with or contained in the AN/TSM-126A listed in appendix A. The maintenance allocation chart is contained in appendix D.

1-2. Indexes of Publications

a. DA Pam 310–4. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO'S) 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 Item and Packaging Discrepancies. Fill out and forward SF 364 (Report of Discrepancy (ROD)) as prescribed in AR 735-1l-2/DLAR 4140.55/NAVMATINST 4355.73/AFR 400-54/MCO 4430.3E.

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

1-4. Reporting Equipment Improvement Recommendation (EIR)

If your Electronic Shop, Transportable AN/TSM-126A 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. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to Commander, US Army Communications and Electronics Materiel Readiness Command, ATTN: DRSEL-ME-MQ, Fort Monmouth, NJ 07703. We'll

Section II. DESCRIPTION AND DATA

1-5. Purpose and Use

a. Purpose. The AN/TSM-126A provides a transportable direct support maintenance shop for interrogator Set AN/TPX-50.

b. Use. The AN/TSM-126A consists of a modified S-280B/G shelter, mounted on a 2 l/2-ton cargo truck towing a trailer-mounted PU-619/M gasoline-driven power generator. The shelter is equipped with special test equipments, tool kits, a hot-mockup AN/TPX-50, and a work area for use as a direct support maintenance facility. The shelter may also be removed from the cargo truck and serve as a temporary fixed field maintenance shop. The PU-619/M power generator provides a 3-phase ac power to the shelter to operate the lighting, air conditioner, fan, heater, service outlets, and test equipments.

1-6. Tabulated Data

a. Shelter, Electrical Equipment S-280B/G (Modified).

Length - 147 in.
Width - - - - - - - - - - - - - - - - - - - 83 in
Height - - - - - - - - - - - - - - - - - - - 82 in.
Weight (including test equipment) - - - - - 3,800 lb,
Number of openings - - - - - - - - - - - - - - - one
Louvers- - - - - - - - - - - - - - - - - - - one (exhaust fan)
Type of lighting - - - - - - - - - - incandescent (four 75-watt and two 60-watt bulbs).

b. Generator Set, Gasoline Engine Driven, Trailer Mounted PU-619/M (fig. 1-2). Refer to TM 5-6115-365-15.

1-7. Tools and Test Equipment for Support of AN/TPX-50

The shelter contains tools and test equipments that are used only for the support and maintenance of the AN/

TPX-50. Following is a list of items required. Refer to appendix A for their related technical manuals.

a. Tools.

(1) Tool Kit, Electronic Equipment TK-100/G (NSN 5180-00-605-0079).

(2) Tool Kit, Electronic Equipment TK-105/G (NSN 5180-00-610-8177).

(3) Repair Kit, Printed Wire Board MK-772/U (NSN 5999-00-757-7042).

(4) Head Set H-216/U (NSN 5965-00-892-3353).

(5) Heat Gun Master Appliances HG-501L (NSN 4940-00-561-1002) .

(6) Kit Tool: Master Deluxe; General Cement Company Type 8283, 25 Alignment Tools (NSN 5120-00-949-8368).

b. Test Equipment.

(1) Oscilloscope AN/USM-281A (NSN 6625-00-228-2201).

(2) Multimeter AN/PSM-6B (NSN 6625-00-957-4374).

(3) Voltmeter, Electronic ME-202B/U (NSN 6625-00-972-4046).

(4) Wattmeter AN/URM-98A (NSN 6625-00-566-4990) .

(5) Attenuator, Fixed, 10 DB CN-1024/U (NSN 5985-00-721-0255).

(6) Power Supply PP-2953A/U (NSN 6130-00-985-7899).

(7) Test Set, Transistor TS-1836C/U (NSN 6625-00-159-2263) .

(8) Test Facilities Set AN/TPM-24(V)3 (NSN 6625-00-133-7865).

(9) Interrogator Set AN/TPX-50(NSN 5859-00-782-5296).

(10) Adapter, Rf Pickup Probe. (Fabricated with Adapter UG-625B/U (NSN 5935-00-552-7660) and No. 16 AWG bar wire, for use with Generator, Sweep Signal AN/USM-203A. See figure 5-2, TM 11-6625-403-15-1 for additional details.)

(11) Radar Test Set AN/TPM-25A (NSN 6625-01-045-9988).

1-8. Description of Shelter

The shelter is an Electronic Equipment Shelter S-280B/G, modified for AN/TSM-126A application. Maintenance and repair procedures are covered in TB 750-240. The shelter is modified as described below.

a. Exterior. The front of the shelter contains an adjustable louvered panel. The louvers are adjustable by a handle which can be locked in place to prevent wind gusts from closing them. The door is located at the rear of the shelter. The air conditioner and heater fuel intake line are located at the left of the door (fig. l-l). The heater exhaust cap (deep fording cap) is located at the roadside, rear (fig. 1-1). The power entrance connector, input power reset button, and air conditioner circuit breaker are located at the rear, near the curbside (fig. 1-1).

b. Interior. The pullout drawers are secured in place during transportation by the lift-to-release mechanisms on the drawers. The swing-open doors are held in place by lock-type latches.

(1) *Front* (fig. 1-4). The forward working area, exhaust fan, schematic holder, and forward work area lamp are located at the front of the shelter. Test Facilities Set AN/TPM-24 (V) 3 is located under the forward area workbench.

(2) *Curbside* (fig. 1-5). The curbside contains various rack-mounted test equipments, a work area, toolkit, work area lamp, emergency light, and a first aid kit. It also contains storage cabinets and drawers, including a cable reel under the workbench.

(3) *Roadside* (fig. 1-3). The roadside contains the AN/TPX-50 hot-mockup, additional test equipments, and storage drawers. On the floor is a field safe, and Power Supply PP-2953 (*)/U, which provides the 28-vdc power source for the AN/TPX–50.

(4) *Rear* (fig. 1-6). The circuit breakers, filter panel, temperature and power controls, and fire extinguisher are located at the rear curbside of the shelter. The space heater and other minor components are located at the rear roadside of the shelter (fig. 1-7).

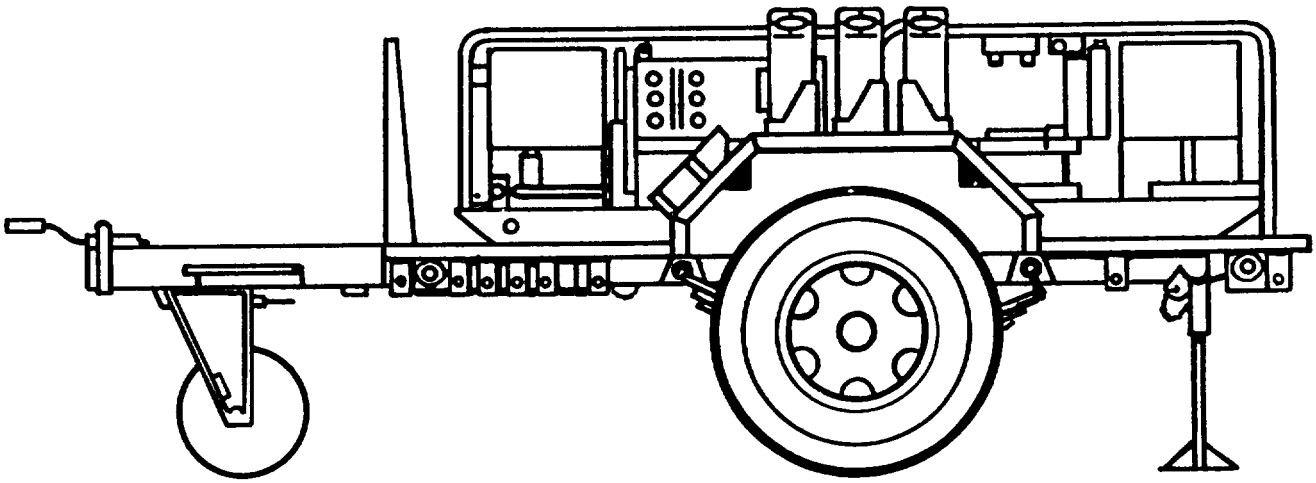

Figure 1-2. Trailer-mounted PU-619/M, generator set.

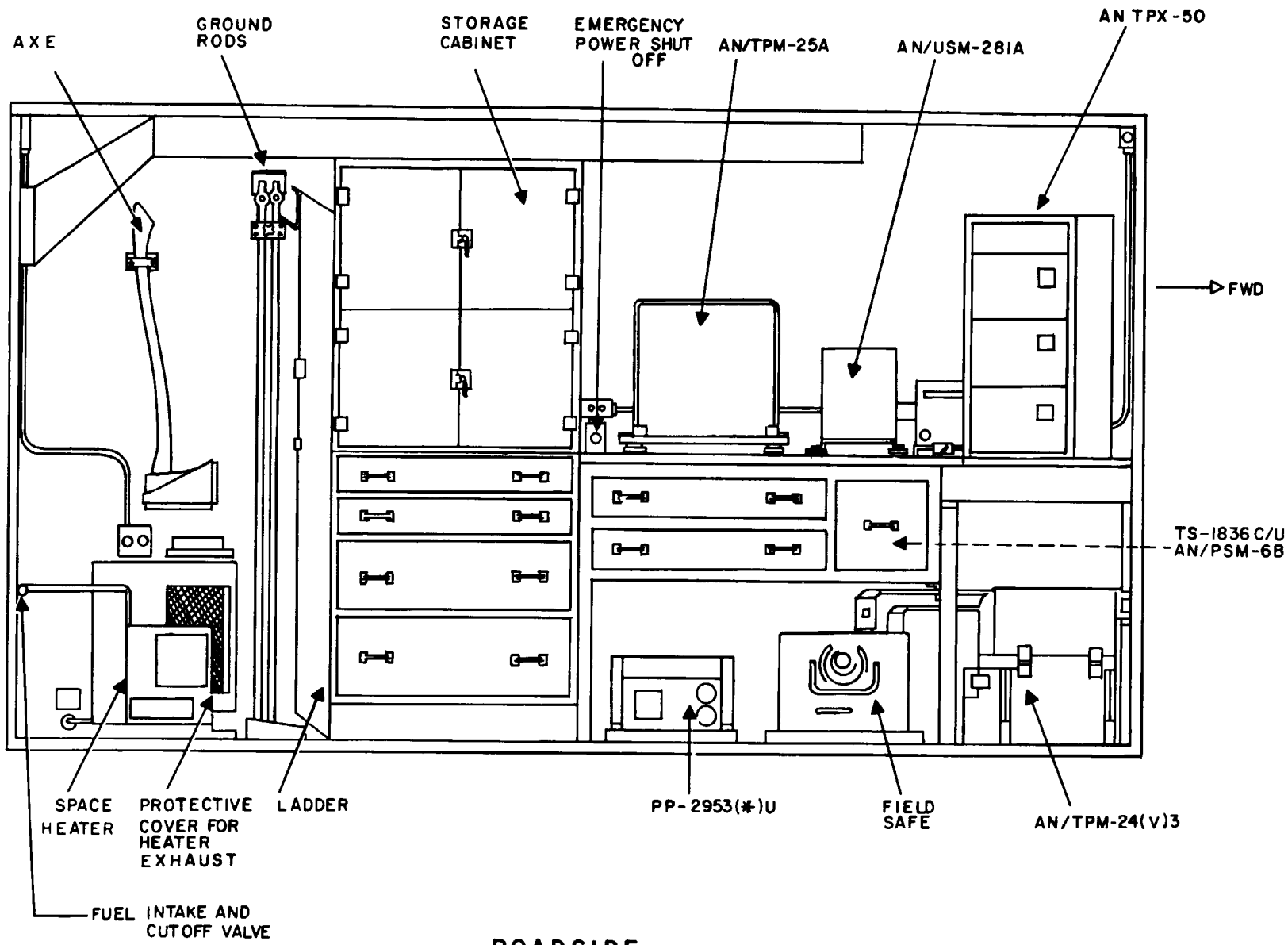

Figure 1-3. S-280B/G Shelter (modified), inner roadside view.

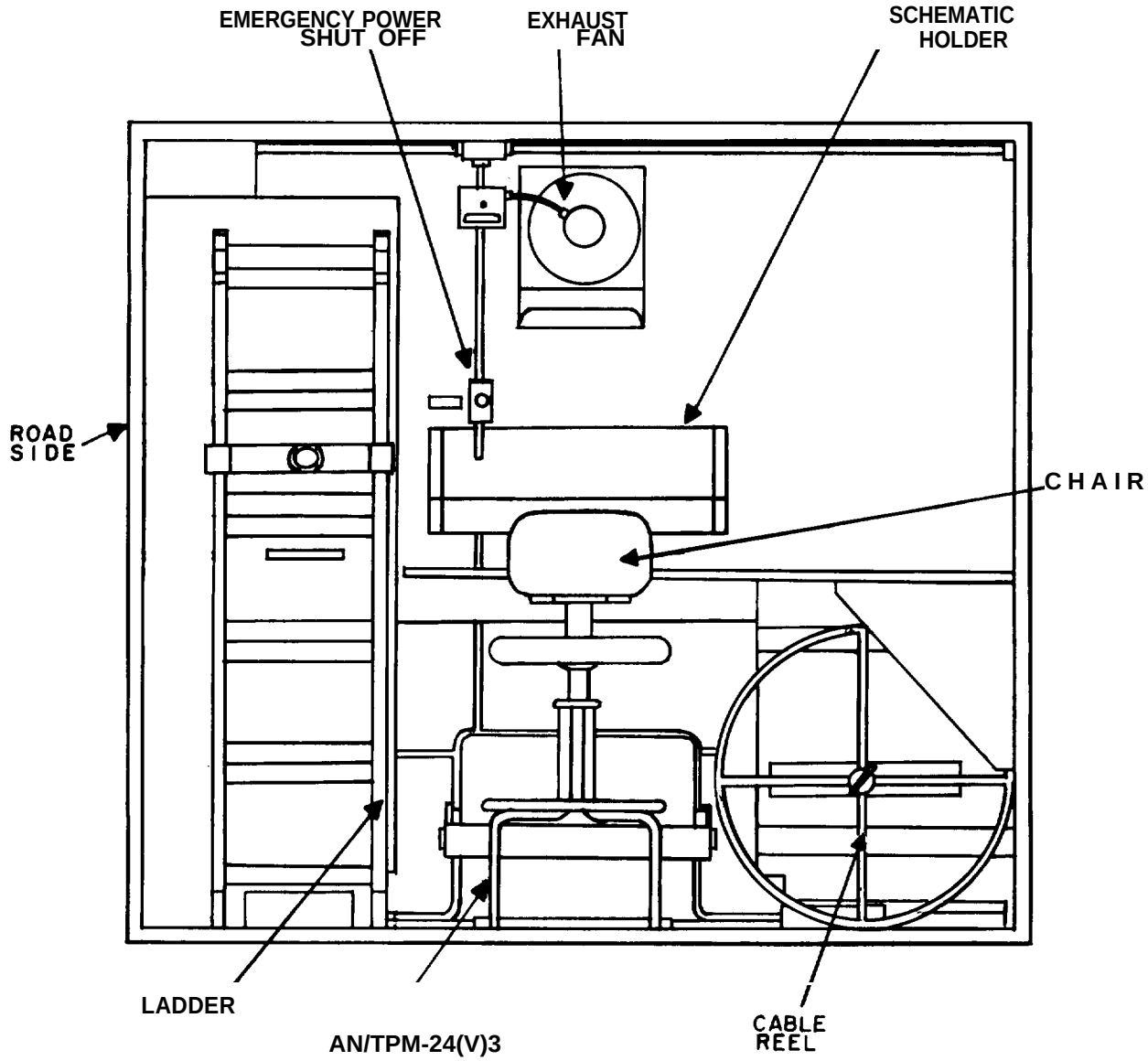

Figure 1-4. S-280B/G Shelter (modified), inner front view

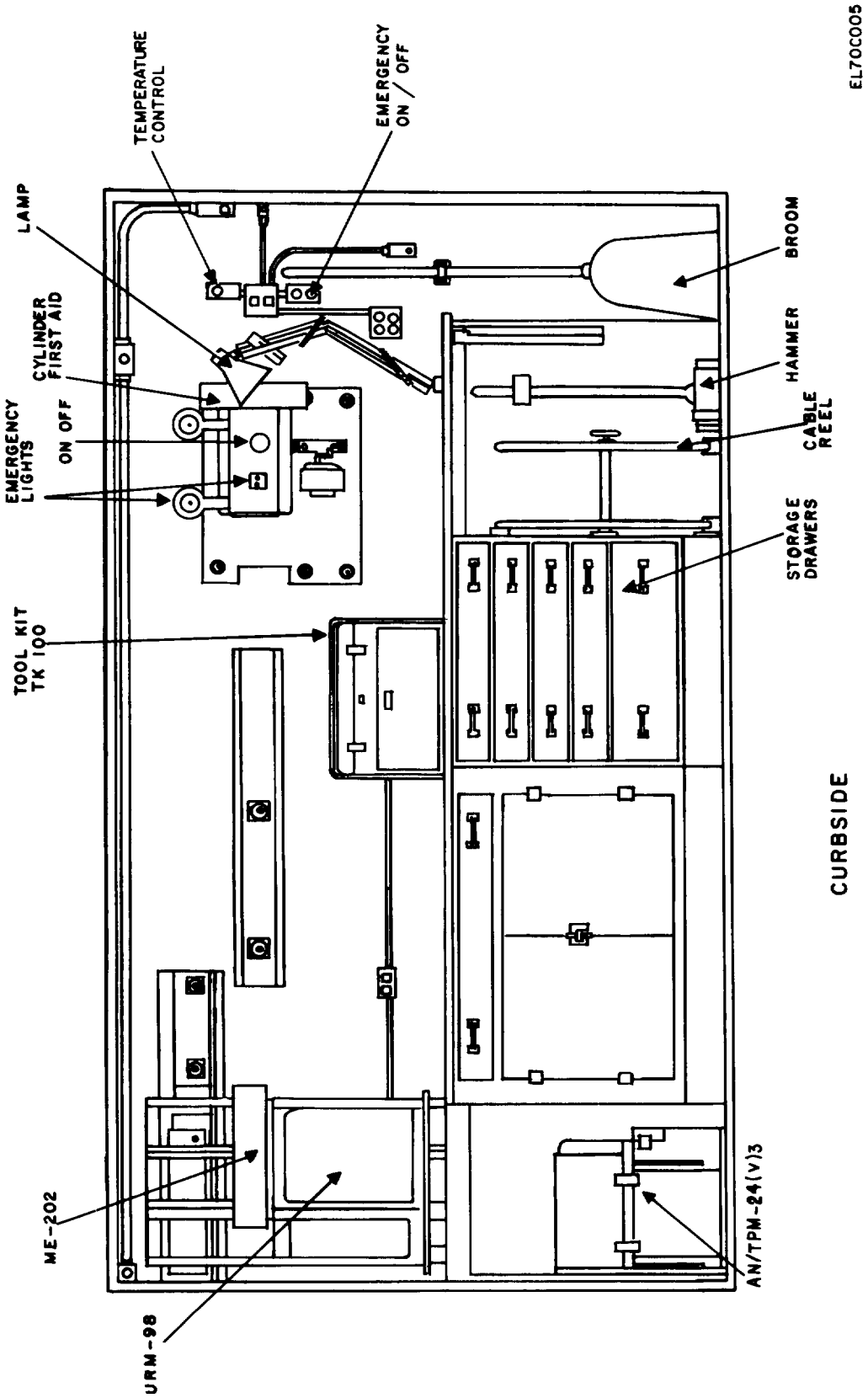

Figure 1-5. S-280B/G Shelter (modified), inner curbside view.

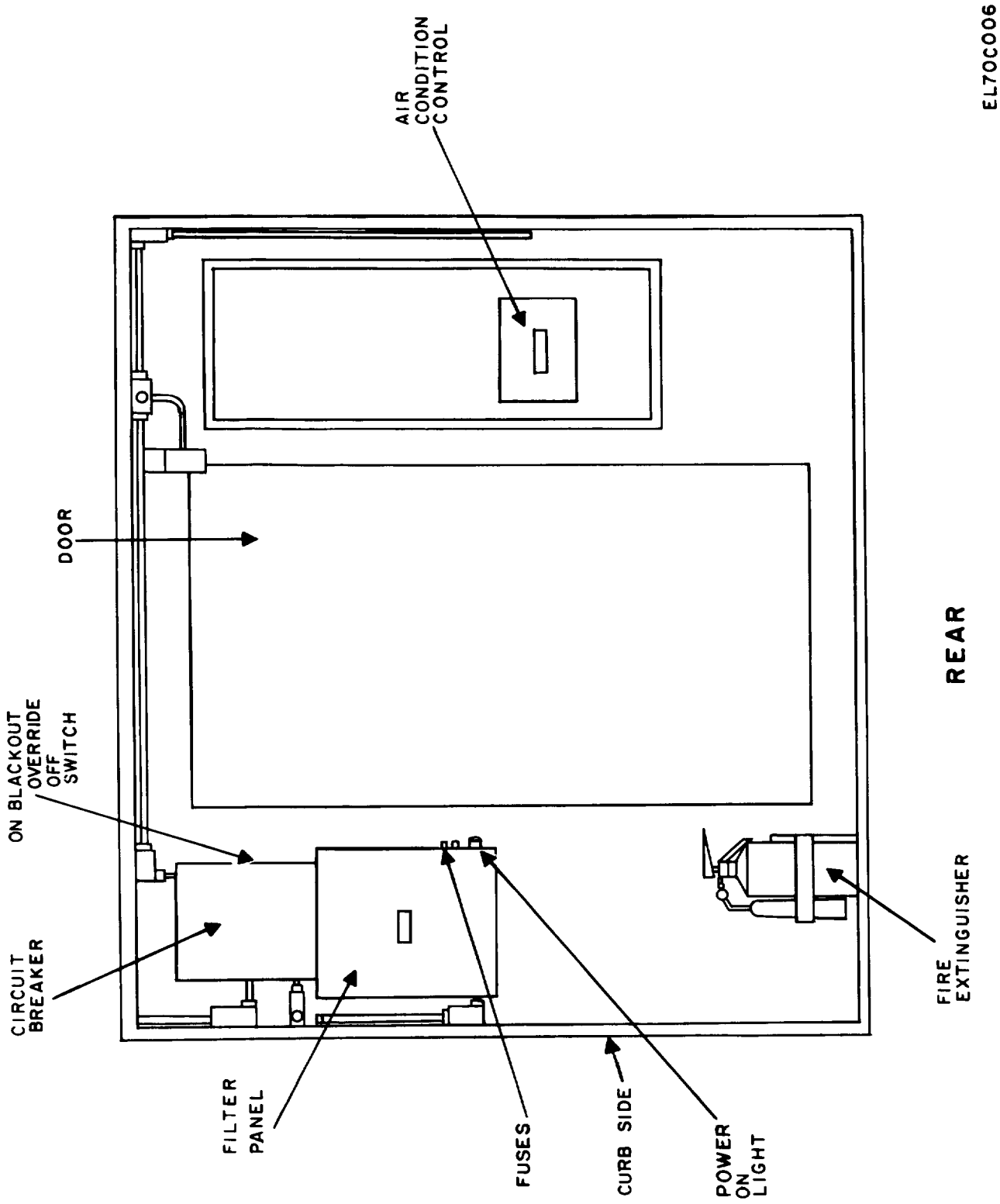

Figure 1-6. S-280B/G Shelter (modfied), inner rear view.

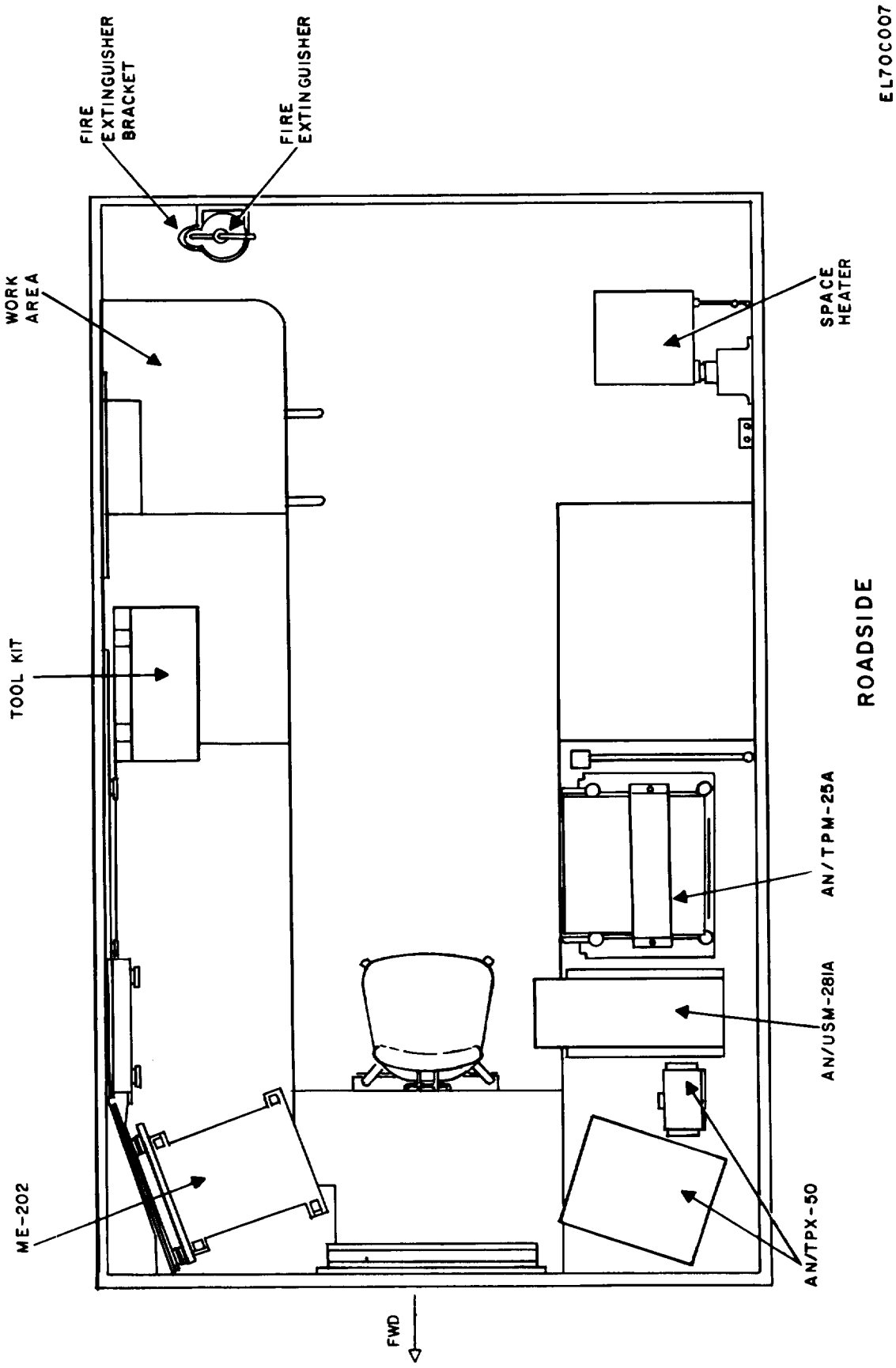

Figure 1-7. S-280B/G Shelter (modified), inner floor plan.

CHAPTER 2
INSTALLATION

2-1. Siting and Installation

There are no installation requirements inside the shelter. The test equipments and other components are stored or fastened in position and ready for use once power is applied.

A. The site selected for locating the shelter depends on the terrain. Whenever possible, locate the shelter on firm, dry, level ground.

b. The trailer-mounted power supply should be located within 100 feet of the shelter. The trailer should also be located on firm, dry, level ground.

2-2. Grounding Procedures

CAUTION

The shelter and power supply must be earth-grounded before power is applied. Use the ground stakes and ground straps provided.

Select a grounding site within 8 feet of the shelter power entrance panel. Ground the shelter as follows:

a. Scoop out a hole about 6 inches deep.

b. Drive a clean ground rod into the hole until the top of the ground rod is approximately 12 inches from the bottom of the hole. Saturate the ground around the rod with water.

c. Connect one end of a ground strap to the ground rod and the other end to the main ground (GND) terminal in the power entrance panel.

d. Ground the trailer-mounted power supply using similar procedures.

CHAPTER 3
OPERATION

3-1. Power Entrance Panel Connectors

Connectors	*Function*
POWE R IN	Connects 3-phase power from the PU-619/M to the shelter.
GND stud	Provides connection of shelter ground to ground rod.

3-2. Power Monitor Panel Controls and Indicators

Control or indicator	*Function*
POWER ON indicator lamp (green)	Lights when PU-619/M is operational and connected to the shelter.
3-phase circuit breaker (CB), input power panel	Provides 3-phase power to the air conditioner.
3-phase circuit breaker, main power box	Provides 3-phase power to 9 single phase circuit breakers.
PHASE indicator lamp (amber)	Lights when the 3-phase power from the PU-619/M is correctly phased with the shelter.

3-3. Power Distribution Controls

a. Circuit Breakers.

Circuit breaker No.	*Rating (amperes)*	*Circuit controlled*
CB6	15	Rack 1 (AN/TPM-25A)
CB4	15	Rack 2 (AN/USM-281)
CB1l	15	Rack 3 (PP-2953/U)
CBIO	15	Rack 4 (not used)
CB12	15	Rack 5 (AN/URM-98, ME-202A/U)
CB9	15	Rack 6 (not used)
CB2	15	Heater
CB7	15	Ceiling lights
CB8	15	Blower motor

b. START-STOP Buttons. When the START button is pressed, power is applied inside the shelter. Pressing the STOP button, removes power from inside the shelter.

3-4. Starting Procedure

a. Be sure that the power cable is properly connected and that the power supply and shelter are properly grounded.

b. Start the PU-619/M. Refer to TM 5-6115-365-15.

c. The shelter POWER ON green lamp (fig. 1-6) will light.

d. Press the shelter START button (fig. 1-5). The PHASE indicator lamp lights (amber), indicating the shelter and the PU-619/M are properly connected.

NOTE

If the PHASE indicator fails to light, either the shelter and the PU-619/M are not properly connected or the lamp is burned out. Do not proceed until it has been determined that the shelter and power unit are properly connected.

e. Set all circuit breakers located in the circuit breakers box (except circuit breaker 2) to ON (fig. 1-6).

f. If heat is required in the shelter, connect a fuel line to the fuel intake (fig. 1-1). Remove the heater exhaust cap (fig. l-l) and open the front wall exhaust louver slightly (refer to TM 5-4520-232-14). Place circuit breaker 2 (in the circuit breakers box) to ON.

g. If the air conditioner is required, close the 3-phase circuit breaker on the input power panel (fig. l-l). Operate the air conditioner controls as required (figs. 3-1 and 1-6), and refer to TM 5-4120-222-14.

CAUTION

Check to see that the air conditioner fan is rotating in the direction of the arrow. If not, the input power to the air conditioner is not properly phase connected and should be corrected to the air conditioner.

3-5. Operation of Emergency Light and Override Switch

a. After completing the starting procedures (para 3-4), insert the emergency light line cord into a convenient ac outlet. Place the EMERGENCY LIGHT ON-OFF switch to ON.

b. The READY light on the emergency light should light indicating it is operating properly.

c. If power from the PU–619//M fails, the emergency light should light automatically.

CAUTION

When shutting off power, before leaving the shelter to stop the PU-619/M, be sure that the EMERGENCY LIGHT ON-OFF switch is set to OFF and remove the emergency light line cord from the ac outlet. Failure to do so will cause the emergency light batteries to run down.

d. During blackout operation, the BLACK OUT OVERRIDE ON-OFF switch should be set to OFF. In this position, the shelter light will go out when the entrance door is opened.

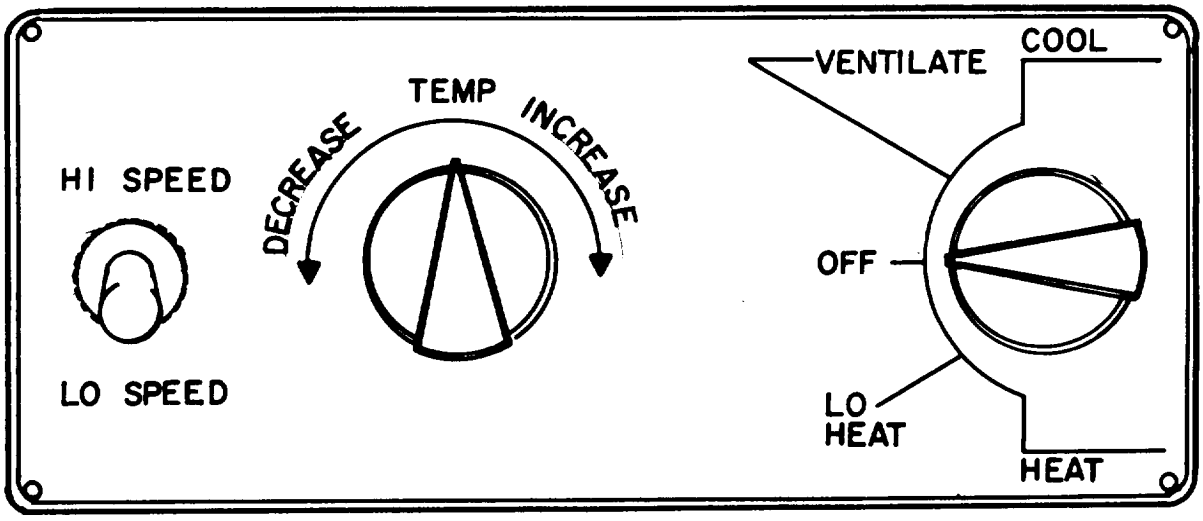

Figure 3-1, Air conditioner operating controls.

3-6. Stopping Procedure

NOTE

Two EMERGENCY STOP buttons are located in the shelter. Pressing either button will cut off all power to the shelter.

a. Set the single-phase circuit breakers to OFF.

b. Set the 3-phase circuit breakers in the main power distribution box to OFF.

c. If the air conditioner was in use and is no longer required, set the 3-phase circuit breaker on the input power panel to OFF.

CHAPTER 4
MAINTENANCE

4-1. Scope of Maintenance

a. General. Refer to technical literature listed in appendix A for maintenance of the shelter and other equipments. In addition to the periodic maintenance procedures described in the equipment manuals, perform the procedures given in *b* and *c* below.

b. Daily Preventive Maintenance.

(1) Check for completeness and the general condition of the shelter, equipment, and spare parts.

(2) Remove dirt, dust, grease, and moisture from storage cabinets, workbench, and power facilities (para 4-2).

(3) Remove rust, corrosion, fungus, dirt, and moisture from the power entrance panel and antenna entrance panel.

(4) Inspect the ground rod and ground strap connections for good contact.

(5) Inspect the power cable for kinks, strains, moisture, fungus, loose connections, and for frayed, cut, or damaged insulation. Tape any insulation damage.

(6) Tighten loose mounting hardware.

(7) Check power applied to the shelter (para 3-4).

c. *Weekly Preventive Maintenance.* Paint scarred or damaged metal finishes (para 4-3).

4-2. Cleaning

a. Remove dust and loose dirt from the exterior surfaces with a clean soft cloth.

b. To remove grease, fungus, and ground-in dirt from the equipment, use a cloth dampened (not wet) with trichlorotrifluoroethan.

WARNING

Adequate ventilation should be provided while using TRICHLOROTRIFLUOROETHANE. 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 TRICHLOROTRIFLUOROETHANE 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.

CAUTION

Do not apply undue pressure on the face (glass of the meters and indicators when cleaning, or damage may occur.

c. To clean the glass faces of the meters and indicators, use a soft, clean cloth. If needed, dampen the cloth with water or use a mild soap to make cleaning more effective.

4-3. Touchup Painting

a. When the finish on the exterior of the equipment has been scarred or damaged, rust or corrosion may be prevented by touching up the surfaces as outlined below.

(1) Use No. 000 sandpaper to clean the surface down to the bare metal and obtain a bright smooth finish.

(2) Sand the area back to solid paint and feather the paint edge that leads to the exposed metal.

(3) Wipe the area clean and apply to metal surfaces on coat of zinc chromate metal primer (NSN 8010-00-835-21 14), and two thin finish coats of enamel.

b. Apply touchup paint with a small brush. For proper care of brushes and painting equipment, refer to TB 43-0118.

4-4. Troubleshooting and Repair

Troubleshooting and repair of the shelter and equipments in the shelter is determined by the directions in the maintenance allocation chart (app D). The shelter power distribution function is described in paragraph 4-5 and may be used as an aid to troubleshooting. Repair of malfunctioning equipments in the shelter can be accomplished by referring to their related technical manuals listed in appendix A.

4-5. Shelter Power Distribution (fig. FO-1)

The trailer-mounted PU-619/M power generator provides 208/120 vat, 3-phase power through a 4-conductor cable and connector to the shelter entrance panel. Each of the input power phases is connected through a magnetic starter with an overload relay. A 20-ampere, 3-phase circuit breaker protects the air conditioner. The remaining shelter power passes through power-line filters and then through a 3-phase, 30-ampere circuit breaker in the main power distribution box. Nine single-

phase circuit breakers rated at 15 amperes protect the nine convenience outlets. The two EMERGENCY STOP and the START-STOP buttons activate or deactivate the magnetic starter, which controls the application of power to the shelter. A black-out switch (door interlock) cuts off power to the ceiling lights when the door is opened. A black-out bypass switch is provided for use to keep the ceiling lights on when the door is opened. A POWER ON indicator lights when the power generator is providing power to the shelter. The POWER PHASE indicator lights to indicate that the 3-phase power connected between the power generator and the shelter is correct.

CHAPTER 5
LIMITED STORAGE AND TRANSIT, AND DEMOLITION TO PREVENT ENEMY USE

Section I. LIMITED STORAGE AND TRANSIT

5-1. Preparation

Perform the procedures outlined below when the shelter is to be moved to another location or placed in limited storage.

a. Place all small items in their respective storage drawers.

b. Perform the stopping procedures.

c. Turn off the power source and disconnect the power cable.

d. Disconnect the ground strap and remove the ground rod from the earth.

e. Coil the cable on the reel and secure the reel inside the shelter.

f. Secure all common items in brackets at the rear of the shelter.

g. Recheck the area for any loose items. Be sure that all items are securely stored.

h. Close and lock the shelter door.

5-2. Transportation

The shelter is normally mounted on a 2 1/2-ton cargo truck. The truck provides the means for transporting the shelter and towing the trailer-mounted power supp-Iy. The shelter can also be transported by helicopter (refer to TM 11-4940-238-15).

Section II. DEMOLITION OF MATERIEL TO PREVENT ENEMY USE

5-3. Authority for Demolition

Demolition of the shelter and equipment will be accomplished only upon order of the commander. The destruction procedures outlined in paragraph 5-4 will be used to prevent further use of the equipment.

WARNING

Disconnect or remove all power before proceeding.

5-4. Methods of Destruction

Refer to technical manual (TM) 750-244-2 for destruction of electronic materiel.

APPENDIX A
REFERENCES

DA Pam 310-4	Index of Technical Publications: Technical Manuals, Technical Bulletins, Supply Manuals (Types 7, 8, and 9), Supply Bulletins and Lubrication Orders.
DA Pam 310-7	US Army Equipment Index of Modification Work Orders.
FM 21-11	First Aid for Soldiers.
SB 11-604	Replacement of Tool Kits, Radar and Radio Repairman TK-87/U and TK-88/U with Tool Kits, Electronic Equipment TK-105/G and TK-100/G.
TB 43-0118	Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters.
TM 750-240	Maintenance and Repair Procedures for S-141/G, S-144/G, S-250/G, S-280/G, and S-318/G Type Shelters.
TM 5-4120-222-14	Operator's, Organizational, DS and GS Maintenance Manual: Air Conditioner, Compact Vertical, 208V 3 Phase, 18,000 BTUH Coiling 12,000 BTUH Heating (Trane Models); 50/60 Hertz Model CE20VAL6, NSN 4120-00-973-4589, 400 Herts, Model CE20VAL4, NSN 4120-00-858-5795.
TM 5-4120-222-24P	Organizational, Direct and General Support Maintenance Repair Parts and Special Tool Lists: Air Conditioner: Compact Vertical, 208V, 3 Phase, 18,000 BTUH Cooling, 12,000 BTUH Heating (Trane Models); 50/60 Cycle Model CE20VAL6, NSN 4120-00-973-4589; 400 Cycle, Model CE20VAL4, NSN 4120-00-858-5795.
TM 5-4520-232-14	Operator's, Organizational, DS and GS Maintenance Manual (Including Repair Parts and Special Tools Lists): Heater Space, Multi fuel W/ blower; 15,000 BTU/hr, 120V 60 Hertz, 3.5 Amp (Hunter Model UH-48, Type 1) NSN 4520-00-709-9222.
TM 5-6115-365-15	Operator's, Organizational, Direct Support, General Support, and Depot Maintenance Manual, Including Repair Parts and Special Tools List: Generator Set, Gasoline and Diesel Engine Driven, Trailer Mounted, PU-236A/G, PU-236/G, NSN 6115-00-393-1709; PU-236B/G, NSN 6115-00-738-6334; PU-253A/U, NSN 6115-00-697-2402; PU-304C/ MPQ-4, NSN 6115-00-056-8421; PU-332/G, NSN 6115-00-577-8471; PU-332A/G, NSN 6115-00-738-6336; PU-375A/G, PU-375/G, NSN 6115-00-753-2231; PU-375B/G, NSN 6115-00-93 1-6789; PU-401/M, NSN 6115-00-823-2217; PU-402/M, NSN 6115-00-722-3760; PU-406/M, NSN 6115-00-738-6342; PU-409/M, NSN 6115-00-702-3343; PU-409A/M, NSN 6115-00-733-6338; PU-495/G, NSN 6115-00-823-2278; PU-551/G, NSN 6115-00-889-1307; PU-564A/G, NSN 6115-00-738-6341; PU-564B/G, NSN 6115-00-179-2789; PU-617/M, NSN 6115-00-738-6335; PU-618/M, NSN 6115-00-738-6337; PU-619/M, NSN 6115-00-738-6339; PU-620/M, NSN 6115-00-738-6340; PU-625/G, NSN 6115-00-837-3915; PU-628/G, NSN 6115-00-987-0873; PU-629/G, NSN 6115-00-937-5555; PU-631/G, NSN 6115-00-059-5172; PU-656/G, NSN 6115-00-989-3296; PU-650B/G, NSN 6115-00-258-1622,
TM 11-2691-15	Frequency Meter TS-186D/UP.
TM 11-5859-687-12	Operator's and Organizational Maintenance Manual: Interrogator Set AN/TPX-50.
TM 11-5859-687-20P	Organizational Maintenance Repair Parts and Special Tools Lists: Inter-

	rogator Set AN/TPX-50(NSN 5895-00-782-5296).
TM 11-5895-687-34P-1	Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools): Interrogator Set AN/TPX-50 (NSN5895-OO-782-5296).
TM 11-5895-687-34P-2	Direct Support and General Support Maintenance Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools) for Signal Processor CP-936/TPX-50 (NSN 5895-00-135-9106).
TM 11-5895-687-34P-3	Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools): Synchronizer, Electrical SN-421/TPX-50 (NSN 5895-00-130-5814).
TM 11-5895-687-34P-4	Direct Support and General Support Maintenance Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools): Receiver-Transmitter, Radio RT-903/TPX-50.
TM 11-5895-687-35-1	DS, GS and Depot Maintenance Manual: Interrogator Set AN/TPX-50.
TM 11-5895-687-35-2	DS, GS and Depot Maintenance Manual: Interrogator Set AN/TPX-50 (Signal Processor CP-936/TPX-50).
TM 11-5895-687-35-3	DS, GS and Depot Maintenance Manual: Interrogator Set AN/TPX-50 (Electrical Synchronizer SN-421/TPX-50).
TM 11-5895-687-35-4	DS, GS and Depot Maintenance Manual: Interrogator Set AN/TPX-50 (Receiver-Transmitter, Radio RT-903/TPX-50).
TM 11-6130-233-12	Operator and Organizational Maintenance Manual: Power Supplies PP-2953/U, PP-2953A/U, PP-2953B/U, and PP-2953C/U, (NSN 6130-00-985-7899).
TM 11-6130-233-35	Direct Support, General Support and Depot Maintenance Manual: Power Supplies PP-2953/U, PP-2953A/U, PP-2953B/U, and PP-2953C/U (NSN 6130-00-985-7899).
TM 11-6625-433-15	Organizational, DS, GS, and Depot Maintenance Manual: Wattmeters AN/URM-98 and AN/URM-98A (NSN 6625-00-566-4990).
TM 11-6625-475-10	Operator's Manual: Multimeters AN/PSM-6, AN/PSM-6A, and AN/PSM-6B.
TM 11-6625-475-24P	Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools) for Multimeters AN/PSM-6 (NSN 6625-00-643-1686) and AN/PSM-6A (NSN 6625-00-656-5871).
TM 11-6625-475-25	Organizational, DS, GS, and Depot Maintenance Manual: Multimeters AN/PSM-6, AN/PSM-6A, and AN/PSM-6B.
TM 11-6625-537-14-1	Operator's, Organizational, Direct Support and General Support Maintenance Manual: Electronic Voltmeters ME-202A/U, (NSN 6625-00-709-0288) and ME-202B/U (NSN 6625-00-972-4046).
TM 11-6625-537-24P-1	Organizational, DS, GS, and Maintenance Repair Parts and Special Tool Lists: Voltmeter, Electronic ME-202A/U.
TM 1l-6625-539-14-3	Operator's, Organizational, Direct Support and General Support Maintenance Manual; Test Set, Transistor TS-1836C/U (NSN 6625-00-159-2263).
TM 11-6625-1703-15	Operator's, Organizational, DS, GS, and Depot Maintenance Manual: Oscilloscope AN/USM-281A (NSN 6625-00-228-2201).
TM 11-6625-2398-15-3	Operator's, Organizational, DS, GS, and Depot Maintenance Manual (Including Repair Parts and Special Tools List: Test Facilities Set AN/TPM-24(V)3, NSN 6626-00-133-7865.
TM 750-244-2	Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command).

APPENDIX B
COMPONENTS OF END ITEM LIST

Section I INTRODUCTION

B-1. Scope

This appendix lists integral components of and basic issue items for the AN/TSM-126A to help you inventory items required for safe and efficient operation.

B-2. General

This Components of End Item List is divided into the following sections:

a. Section II. Integral Components of the End Item. These items, when assembled, comprise the AN/TSM-127A and must accompany it whenever it is transferred or turned in. The illustrations will help you identify these items.

b. Section III. Basic Issue Items. These are the minimum essential items required to place the AN/TSM-126A in operation, to operate it, and to perform emergency repairs. Although shipped separately packed they must accompany the AN/TSM-126A during operation and whenever it is transferred between accountable officers. The illustrations will assist you with hard-to-identify items. This manual is your authority to requisition replacement BII, based on TOE/MTOE authorization of the end item.

B-3. Explanation of Columns

a. Illustration. This column is divided as follows:

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

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

b. National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning.

c. *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. Following the part number, the Federal Supply Code for Manufacturers (FSCM) is shown in parentheses.

d. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

e. *Location.* The physical location of each item listed is given in this column. The lists are designed to inventory all items in one area of the major item before moving on to an adjacent area.

f. Usable on Code. Not applicable.

g. *Quantity Required (Qty Reqd).* This column lists the quantity of each item required for a complete major item.

h. Quantity. This column is left blank for use during an inventory. Under the Rcvd column, list the quantity you actually receive on your major item. The Date columns are for your use when you inventory the major item at a later date; such as for shipment to another site.

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SECTION II INTEGRAL COMPONENTS OF END ITEM

(1) ILLUSTRATION (A) FIG No.	(B) ITEM NO.	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION PART NUMBER	(FSCM)	(4) LOCATION	(5) USABLE ON CODE	(6) QTY REQD	(7) QUANTITY RCVD	
1		120-00-959-4453	(N) AIR CONDITIONER 18,000 BTU/HR CE 20VAL6 208	60532			1		
1-1		410-00-117-2868	(N) SHELTER, ELECTRICAL EQUIPMENT S-280B/G	80058			1		
1-4			(N) FAN, EXHAUST: MODEL HF(V), TYPE LS-802. FLOW L. SERIES 268AS A0-0893	82877			1		
1-5		135-00-178-9527	(N) BATTERY, EMERGENCY LIGHT BA-804/U	83740			1		
1-5		545-00-664-5313	(N) FIRST AID KIT GGK392	81348			1		
1-5			(N) LIGHT, EMERGENCY: MODEL B-302	02720			1		
1-7			(N) CABLE ASSEMBLY, POWER ELECTRICAL (100 FT) SC-D-883963 GROUP 5-4				1		
1-6		210-00-59-	(N) EXTINGUISHER, FIRE, CARBON DIOXIDE 5 LB 0-E-910	81348			1		
1-5		130-00-711-0537	(N) REEL, CABLE RC-4051TR	80058			1		
1-7		520-00-709-9222	(N) HEATER, SPACE UH-48 120VU, 60 HZ	92878			1		
1-3		975-00-224-5260	(N) ROD, GROUND MX-148G	80058			2		
1-4		540-00-892-6243	(N) LADDER, VEHICLE, BOARDING MX-3391/G	80058			1		
		240-00-691-5617	(N) AURAL PROTECTOR, SOUND MIL-P-3B268	81349			1		
		625-00-228-2201	(N) OSCILLOSCOPE AN/USM-281A				1		
		625-00-957-4374	(N) MULTIMETER AN/PSM-6B				1		
		625-00-972-4046	(N) ELECTRONIC VOLTMETER ME-202B/U				1		
		625-00-566-4990	(N) WATTMETER AN/URM-98A				1		
		130-00-985-7899	(N) POWER SUPPLY PP-2953A/U				1		
		625-00-159-2263	(N) TRANSISTOR TEST SET TS-1836C/U				1		
		625-00-133-7865	(N) TEST FACILITIES SET AN/TPM-24(V)3				1		
		895-00-782-5296	(N) INTERROGRATOR SET AN/TPX-50				1		
			(N) RADAR TEST SET, AN/TPM-25A				1		
		985-00-721-0255	(N) ATTENUATOR, FIXED 10 DB CN-1024/U				1		
		999-00-757-7042	(N) REPAIR KIT. PRINTED WIREBOARD MK-772/U				1		
		965-00-892-3353	(N) HEAO SET ELECT. H-216/U				1		
		4520-01-068-1134	(N) HEAT GUN HG-501L				1		
			KIT ALIGNMENT TOOL GC-82B3				1		

SECTION III BASIC ISSUE ITEMS

(1) ILLUSTRATION (A) FIG NO.	(B) ITEM NO.	(2) NATIONAL STOCK NUMBER	(3) DESCRIPTION PART NUMBER	(PSCM)	(4) LOCATION	(5) USABLE ON CODE	(6) QTY REQD	(7) QUAITY RCVD	DATE
1-4		6240-00-143-3118	LAMP, INCANDESCENT 4L101	81348			2		
1-7		4210-00-595-4085	BRACKET, FIRE EXTINGUISHER D737907	53711			1		
1-8		5110-00-293-2336	AxE, SINGLE BIT GGGA926	81348			1		
FO-1	17	6240-00-269-0958	LAMP, INCANDESCENT 330C766H04	97942			4		
FO-1	33	6240-00-143-3063	LAMP, INCANDESCENT MS15575-3	96906			1		
FO-1	35	920-00-857-9033	FUSE, CARTRIDGE: 6 AMP MTH6	71400			1		
FO-1	43	240-00-223-9100	LAMP, GLOW B1A	80204			1		
		910-00-066-1235	ADAPTER ASSEMBLY, FUEL SCC99549	80063			1		
1-4		110-00-281-4469	CHAIR, ROTARY AACO0295	81348			1		
		120-00-251-4489	HAMMER, HAND, TYPE X, CLASS 1; 8 LB GGGH86	81348			1		
		9920-00-682-6757	TRAY, ASH, ALUMINUM AAA71O	81348			2		
		120-00-724-3767	ALIGNMENT TOOL 024.0458-000	13499			1		
		120-00-228-9528	WRENCH, OPEN END GGGW636	81348			1		
			TECHNICAL MANUAL TM 11-4940-480-14				2		

APPENDIX C
ADDITIONAL AUTHORIZATION LIST

Section I. INTRODUCTION

C-1. Scope

This appendix lists additional items you are authorized for the support of the AN/TSM-126A.

C-2. General

This list identifies items that do not have to accompany the AN/TSM–126A and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

C-3. Explanation of Listing

National stock numbers, descriptions, and quantities are provided to help you identify and request the additional items you require to support this equipment. The items are listed in alphabetical sequence by item name under the type document (i.e., CTA, MTOE, TDA, or JTA) which authorizes the item(s) to you.

(Next printed page is C-3)

SECTION II ADDITIONAL AUTHORIZATION LIST

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION PART NUMBER AND FSCM	USABLE ON CODE	(3) UNIT OF MEAS	(4) QTY AUTH
115-00-738-6339	ENGINE GENERATOR SET, TRAILER MOUNTED PU-619/M	(80058)	EA	1
110-00-920-9341	FILE CABINET, FED AAF 358, CLASS 3, SIZE VII	(81348)	EA	1

APPENDIX D
MAINTENANCE ALLOCATION

Section I INTRODUCTION

D-1. General

This appendix provides a summary of the maintenance operations for the AN/TSM–126A. 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.

D-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 equipment 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. *Repair*. 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.

D-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 t i me 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 number of task-hours specified by the "work time" figure represents the average time required to restore an itme (assembly, subassembly, component, module, end item or system) to a serviceable 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.

D-4. Tool and Test Equipment Requirements (See 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. Natinal/NATO Stock Number. This column lists the National/NATO stock number of the specific tool or test equipment,

e. 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.

D-5. Remarks (See IV).

a. Reference Code. This code refers to the appropriate item in section 11, column 6.

b. Remarks. This column provides the required explanatory information necessary to clarify items appearing in section II.

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SECTION II MAINTENANCE ALLOCATION CHART FOR

ELECTRONIC SHOP, TRANSPORTABLE AN/TSM-126A

(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY C	O	F	H	D	(5) TOOLS AND EQPT.	(6) REMARKS
00	ELECTRONIC SHOP, TRANSPORTABLE AN/TSM-126A	Inspect		1.0					
		Service				0.3			
		Repair		0.3				2,3,6,7	A
		Repair				0.5	160	1 ,2,4,5,6,7	B & C
01	OSCILLOSCOPE AN/USM-281A	Repair							D
02	MULTI METER AN/PSM-6B	Repair							E
03	ELECTRONIC VOLTMETER ME-202B/U	Repair							F
04	WATTMETER AN/URM-98A	Repair							G
05	POWER SUPPLY PP-2953A/U	Repair							H
06	TRANSISTOR TEST SET TS-1836C/U	Repair							I
07	TEST FACILITIES SET AN/TPM-24(v)3	Repair							J
08	INTERROGATOR SET AN/TPX-50	Repair							K
09	RADAR TEST SET. AN/TPM-25A	Repair							L

SECTION III TOOL AND TEST EQUIPMENT REQUIREMENTS
FOR
ELECTRONIC SHOP, TRANSPORTABLE AN/TSM-126A

TOOL OR TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	NOMENCLATURE	NATIONAL, NATO STOCK NUMBER	TOOL NUMBER
1	H,D	MAINTENANCE KIT, ELECTRONIC MK-679/G	5410-00-973-2936	
2	O, F,H, D	MULTI METER TS-352B/U	6625-00-242-5032	
3	O,F	REPAIR KIT, ELECTRICAL MK-680/G	5410-00-783-6250	
4	F,H	REPAIR KIT, SHELTER MK-681/G	5410-00-771-3354	
5	H,D	TOOL KIT, ELECTRONIC EQUIPMENT TK-144/G	5180-00-973-4369	
6	O, F,H, D	TOOL KIT, ELECTRONIC EQuIPMENT TK-101/G	5180-00-610-8177	
7	O, F,H, D	TOOL KIT, ELECTRONIC EQuIPMENT TK-105/G	5180-00-064-5178	

SECTION IV. REMARKS

REFERENCE CODE	REMARKS
A	REPAIR BY REPLACEMENT OF FUSES AND LAMPS.
B	REPAIR BY REPLACEMENT OF JUNCTION BOX, UTILITY BOX, CABLE ASSEMBLY, CAPACITORS, CIRCUIT BREAKERS, CONNECTORS, FANS LINE FILTERS, FUSEHOLDER, JEWEL AND SCREW ASSEMBLY, EMERGENCY LIGHT, MOUNT CABLE, MAGNETIC STARTER, RESISTORS, AND SWITCHES.
C	REPAIR OF S-280B/G SHELTER, REFER TO TB 750-240.
D	REPAIR OF AN/USM-281A, REFER TO TM 11-6625-1703-15.
E	REPAIR OF AN/PSM-6B, REFER TO TM 11-6625-475-25.
F	REPAIR OF ME-202B/U, REFER TO TM 11-6625-537-14-1.
G	REPAIR OF AN/URM-9BA, REFER TO TM 11-6625-433-15.
H	REPAIR OF PP-2953A/U, REFER TO TM 11-6130-233-12, TM 11-6130-233-35.
I	REPAIR OF TS-1836C/U, REFER TO TM 11-6625-539-14-3.
J	REPAIR OF AN/TPM-24(V)3, REFER TO TM 11-6625-2398-15-3.
K	REPAIR OF AN/TPX-50, REFER TO TM 11-5895-687-12.
L	REPAIR OF AN/TPM-25A, REFER TO TM 11-6625-2610-12 AND TM 11-6625-2610-40.

APPENDIX E
EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

E-1. Scope

This appendix lists expandable supplies and materials you will need to operate and maintain the AN/TSM-126A. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

E-2. Explanation of Columns

a. Column 1—Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e. g., "Use cleaning compound, item 5, App. D").

b. Coiumn 2—Level. This column identifies the lowest level of maintenance that requires the listed item.

C—Operator/Crew
O—Organizational Maintenance
F—Direct Support Maintenance
H—General Support Maintenance

c. *Column 3—National Stock Number.* This is the National stock number assigned to the item; use it to request or requisition the item.

d. Column 4—Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parentheses, if applicable.

e. *Column 5— Unit of Measure (U/M).* Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e. g., ea, in, pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

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SECTION II EXPENDABLE SUPPLIES A AND MATERIALS LIST

(1) ITEM NO,	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION PART N0 AND FSCM	(5) UNIT OF MEAS
1	C	8020-00-721-9657	BRUSH, PAINT; FLAT, 1-1/2 IN. WD. FED-SPEC H-B-451 (81348)	EA
2	C	8305-00-205-3496	CLOTH, COTTON; CHEESECLOTH CCCC440 (81348)	YD
3	C	6850-00-597-9765	CLEANING COMPOUND, SOLVENT MILC18718 (81349)	GAL
4	C	8010-00-145-0147	ENAMEL, SEMIGLOSS: OLIVE DRAB (x24087) (81348)	GAL
5	C	5350-00-264-3485	PAPER, ABRASIVE; FLINT, CLOSED COATING, EXTRA FINE GRADE FED-SPEC-PP-105 (81348)	PG
6	C	6850-00-984-5853	TRICHLOROTRIFLUOROETHANE, TECHNICAL; CLEANING COMPOUND, FREON, PCA	GAL
7	C	8010-00-835-2114	PRIMER, COATING, ZINC CHROMATE, TTP 1757 (81348)	GAL

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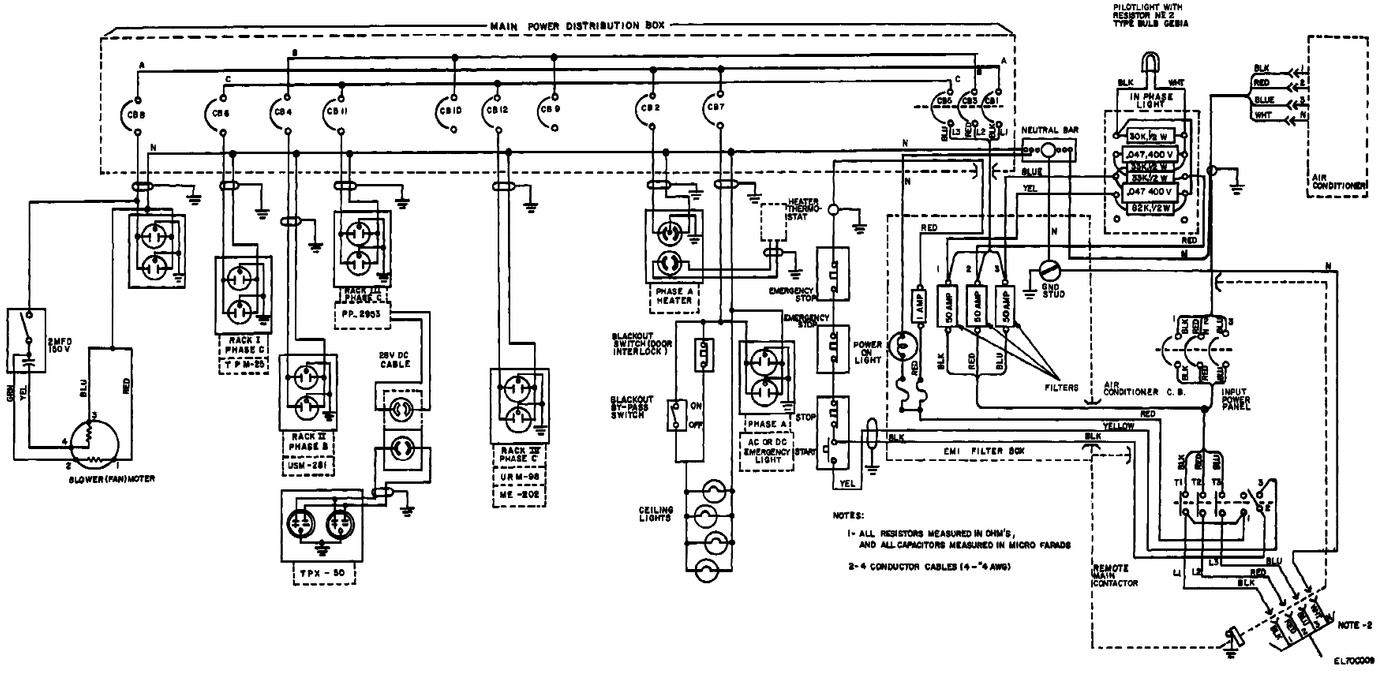

Figure FO-1. S-280B/G Shelter (modified), wiring diagram for AN/TSM-126A applicat

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2-25	2-28			Recommend that the installation antenna alignment procedure be changed throughout to specify a 2^{o} IFF antenna lag rather than 1^{o}. REASON: Experience has shown that with only a 1^{o} lag, the antenna servo system is too sensitive to wind gusting in excess of 25 knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2^{o} without degradation of operation.
3-10	3-3		3-1	Item 5, Function column. Change "2 db" to "3db." REASON: The adjustment procedure the the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.
5-6	5-8			Add new step f.1 to read, "Replace cover plate removed in step e.1, above." REASON: To replace the cover plate.
		F03		Zone C 3. On J1-2, change "+24 VDC to "+5 VDC." REASON: This is the output line of the 5 VDC power supply. +24 VDC is the input voltage.

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SSG I. M. DeSpiritof 999-1776

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