TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL,
DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

ANTENNA
AS-2823/TRC

HEADQUARTERS, DEPARTMENT OF THE ARMY
JUNE 1973

WARNING

Because of weight and structural shape, certain components require more than one crew member for handling. When more than one crew member is required the instruction will so state.

WARNING

It is hazardous to attempt erection of the antenna in winds exceeding 30 MPH.

WARNING

Insure that the swing bolts for the winch cable bar latches are in the down position.

WARNING

Before beginning disassembly, disconnect power cable and deicing circuit.

WARNING

The dismantling procedures must be performed in the sequence given to prevent damage to the equipment and to insure the safety of the crew.

TECHNICAL MANUAL
No. **11-5985-343-14**

HEADQUARTERS
DEPARTMENT OF THE ARMY
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OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST ANTENNA AS-2823/TRC

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This technical manual provides information necessary to install, operate, transport and maintain Antenna AS-2823/TRC (Figures 1-1 and 1-2).

b. The manual contains siting, installation and maintenance instructions for the operator. In addition organizational, direct and general support maintenance are provided.

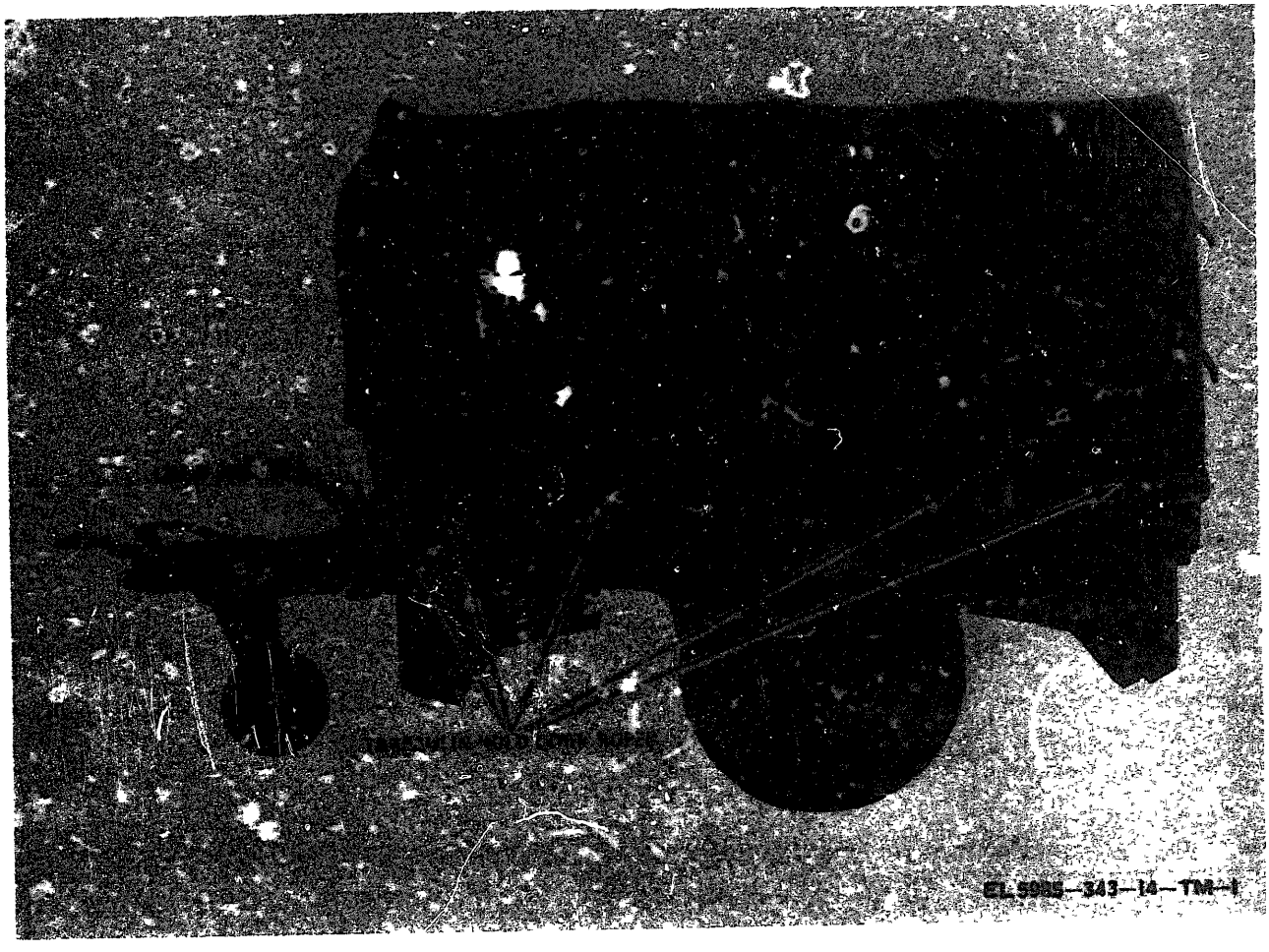

Figure *1-1. Antenna AS-2823/TRC, Stowed Configuration.*

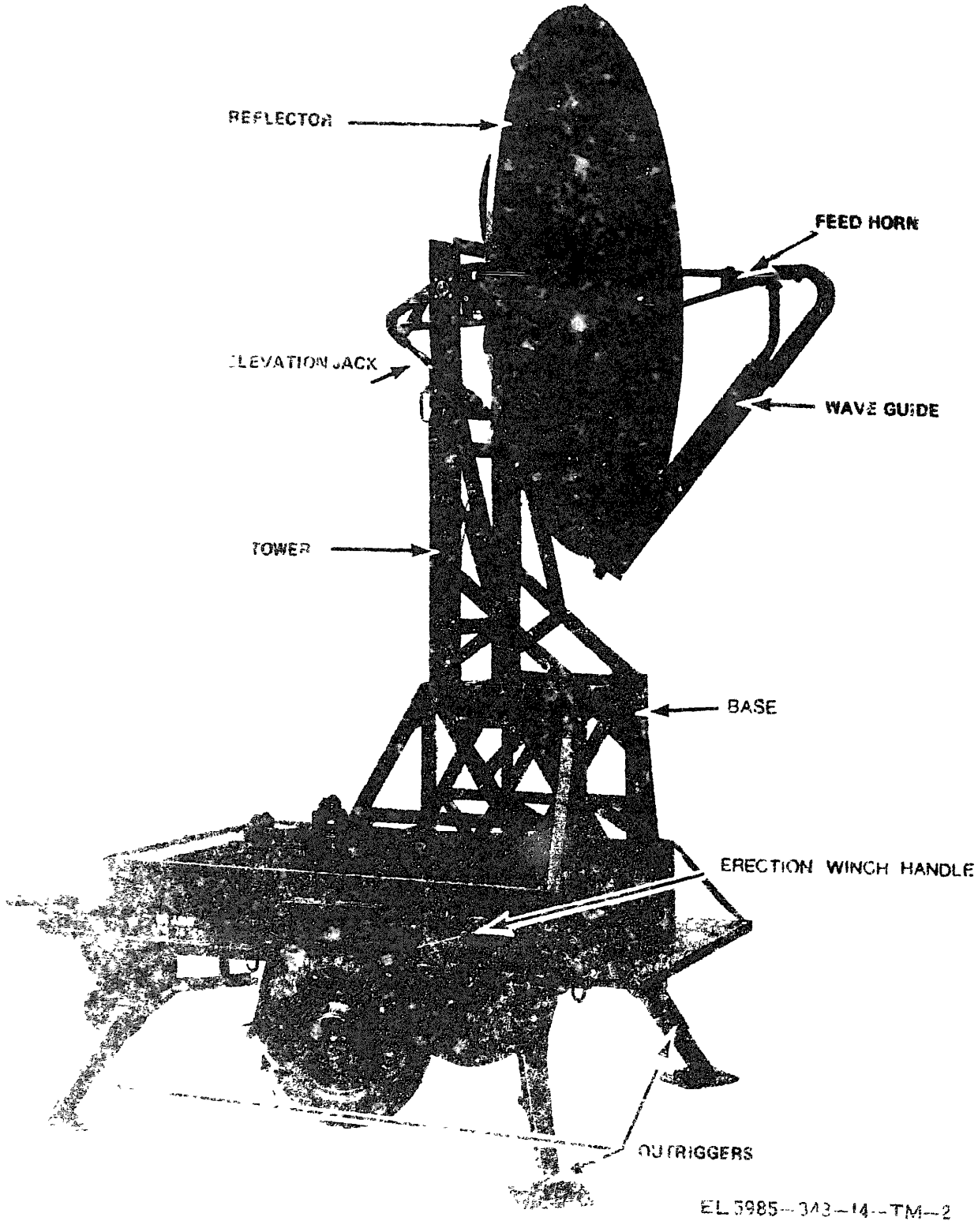
REFLECTOR
FEED HORN
ELEVATION JACK
WAVE GUIDE
TOWER
BASE
ERECTION WINCH HANDLE
OUTRIGGERS
EL 5985-343-14-TM-2

Figure 1-2.

1-2. Maintenance Forms and Records
Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750.

1-3. Reporting **of Equipment Publication Errors**
The reporting of errors, omissions and recommendations for improving this publication by the individual user is encouraged Reports should be submitted on DA Form 2028 (Recommended Changes to Publications) and forwarded direct to: Commander, U.S. Army Electronics Command, Attn: AMSEL-MR-NMP-CR, Fort Monmouth, NJ 07703.

1-4. Administrative Storage
Administrative storage will be accomplished in accordance with the requirements outlined in TM 740-90-1.

Section II. DESCRIPTION AND DATA

1-5. Equipment Description
a. Antenna AS-2823/TRC is a lightweight, parabolic antenna designed for operation in the 4.4 to 5.0 GHz frequency range.

b. The antenna is mounted in a Trailer Cargo 1 1/2 ton, 2 wheel, M105A2 and consists of the following (Figure 1-2) :

	Official Nomenclature	Common Name	*Purpose and Description*
1	Horn Waveguide SMD-627304	Feed Horn and Waveguide Assembly	Provide the primary radiation patterns to be reflected by the antenna reflector. Receives reflected RF energy from antenna reflector. Circular waveguide horn with vertical and horizontal polarization, equipped with radome and thermostatically controlled deicing equipment. Transmission line for radiated and received RF energy.
2		Antenna	Reflects radiated RF energy from, and received energy to, the waveguide horn. The antenna is a ten (10) foot diameter parabolic reflector consisting of four (4) identical panels.
3		Tower, Base and Erection Winch	To support antenna reflector, feed system and waveguide horn. The structure consists of a base, erection winch and support structure. The base structure is affixed to the bed of a trailer and provides the support and pivot point for the reflector support (tower). The erection winch is a manually operated, automatic locking winch which is used to raise the tower and reflector to the vertical position. The tower is a movable beam mast section which supports the reflector in the operational mode. The tower also provides the means for adjusting the reflector in the azimuth and elevation planes.
4		Outriggers and Jacks	The M105A2 is modified by the addition of four (4) movable outrigger stabilizer legs. These legs are locked in place to support the antenna when erected. One (1) hydraulic lifting jack is provided to be used when setting the stabilizing outriggers.

c. When dismantled and packed for transportation (Figure l-l), the antenna is designed to provide mobility over open highway or rough terrain.

d. The antenna is constructed completely of aluminum for the purpose of minimizing weight, while at the same time providing sufficient strength to maintain operation in wind and temperature extremes. All hardware and fasteners are designed to assure speed during assembly.

1-6. Equipment Purpose
The AS-2823/TRC provides a means of radiating and receiving microwave radio energy in the 4.4 to 5.0 Higahertz (GHz) range. The antenna is used primarily with tropospheric scatter radio equipments that require minimum site selection to on the air operation.

1-7. Technical Characteristics Including Transportation Methods
Tables 1-1 and 1-2 contain information necessary for orientation of service personnel on the features and characteristics of the equipment.

Table 1-1. Technical Characteristics, General

Weight:	Each antenna and trailer weighs approximately 4300 pounds.
Erected Dimensions:	
Height	20 feet from ground line to top of reflector.
Width	17½ feet from outermost point of waveguide to mounting trailer pintle hook.
	8½ feet between centers of stabilizer base pads (approximate).
Transportability:	
Ground Transportation	Towable by standard military vehicle. Retains all mobility characteristics of the M105A2. Brakes are air-over-hydraulic type.
Air Transportation	Transportable in C-130 aircraft or other standard cargo planes without disassembly or special stowage operations.
Shock Test:	Velocity of impact approximately 8 MPH.
Power:	
(Deicing System)	120 volts, 165 watts; single phase, 50 to 60 Hz; 1.5 amperes. Regulation—±10 volts.
Grounding: (Lightning Protection)	Ground Rod and Anchors.

Table 1-2. Technical Characteristics, Capabilities and Limitations

Frequency Range:	4.4 to 5.0 GHz
Feed System:	Vertical and horizontal polarization with twin waveguard run, dual polarized junction and feed horn. Cross coupling isolation is 30 db minimum. The feed aperture is equipped with a radome and thermostatically controlled deicing equipment RG49/U waveguide (1" x 2").
Gain:	41 db minimum above isotropic at 4.4 GHz
Beamwidth:	1.8 degrees
Sidelobe Suppression:	First sidelobe 20 db minimum below main beam. All other sidelobes within 5 degrees of main beam at least 22 db below main lobe. All sidelobes beyond 10 degrees of main beam at least 30 db below main beam.
VSWR:	1.2:1 over 4.4 to 5.0 GHz
Pressurization:	0.5 psig
Power Rating:	10 KW continuously
Azimuth Adjustment:	±10 degrees on each side of centerline
Elevation Adjustment:	+15 degrees, −10 degrees
Maximum Wind Load Without Ground Anchors:	50 MPH
Maximum Wind Load with Ground Anchors (Stowed):	120 MPH
Maximum Ice Load:	2 inches thick, covering wetted area
Temperature Range:	
Operating	−45° F to +135° F
Storage	−65° F to +160° F
Minimum Operating	+20° F
Minimum Operating Temperature under Icing Conditions with 30 MPH Maximum Wind	
Reflector Size	10-ft. Diameter

CHAPTER 2

INSTALLATION PLANNING

Section I. INTRODUCTION

2-1. General

This chapter contains the information necessary to facilitate the installation of Antenna AS-2823/TRC. Section I provides general information and crew briefing notes. Section II deals with site selection, installation planning and sighting procedures.

2-2. Preliminary Instructions

The installation crews (2 men for each equipment) should be briefed by the communications officer prior to departure for the installation site The information conveyed should Include.

(1) Organization and erection plan

(2) Topographic map view of the desired site for installation and alternate site locations,

(3) Information briefing on the organization and use of this manual.

(4) Instructions for reaching and identifying the site area.

(5) Establishment of a time schedule for each crew to follow until voice contact is established

(6) Emergency procedures in the event contact, is not made after the normal alignment schedule has been completed.

(7) Destruction of equipment to prevent enemy use

Section II. PLANNING

2-3. General

This section contains the information necessary for the selection of the installation site, antenna installation sequence and sighting of the erected antenna. Actual erection and installation procedures will be described in chapter 4.

2-4. Site Selection

a. Before unloading the antenna from the trailer, careful consideration must be given to the terrain and general area accessibility. The site must be unobstructed, isolated from noise sources (e.g., power lines, generators, transmitters, aircraft) and suitable for proper tropospheric scatter communications performance. The ideal site is the center above 0 degrees in relation to the horizon for at least one mile.

b. The ground must be firm and level so that proper orientation and stabilizing may be accomplished.

2-5. **rounding**

The installation of the ground rods and anchors will provide the necessary ground and lightning protection. A single rod and anchor will suffice when permanent anchoring is not required.

2-6. Power Requirements

Since the antenna's feedhorn de-icing system requires primary power, power availability must be considered during site selection

2-7. Installation Sequence

a. During unloading and assembly, the procedures outlined in this manual must be carefully followed to minimize the danger of damaging the equipment or injury of personnel.

b. Actual installation procedures for erection of the antenna are described in chapter 4. The sequence for Installation on the antenna is:

(1) Trailer unloading procedures.

(2) Placement of parts for assembly

(3) Assembly of the antenna.

(4) Erection of the antenna.

(5) Installation of cables and ground anchors

2-8. Sighting

a. The required azimuth alignment of the antenna is established at the crew briefing and must be followed closely to insure contact with the remote antenna The desired azimuth reference can best be established using a military compass

NOTE

Any metal material should be located at least G-feet from the compass when **sighting.**

b. After determining the desired sighting direction for the antenna, face the year of the trailer in the sighting direction

c. The erected antenna has ± 10 degrees of azimuth adjustment on each side of the centerline. Similarly, it has a capability of + 15 degrees and - 10 degrees in elevation adjustment. Thus, upon arrival at site, it is necessary to only roughly align the trailer in the general direction of the line-of-sight of the desired communication link.

2-9. Material Handling

When in the stowed configuration, all components are stacked on and packed within the trailer. No special lifting equipment is required for handling the components.

CHAPTER 3

TRANSPORTATION PROCEDURES

Section I. GENERAL

The Antenna AS-2823/TRC is designed and constructed to provide complete mobility. Sturdy construction and the design of the antenna allows for transportation oven the road in the trailer configuration or by cargo plane.

This chapter will discuss in detail the necessary precautions and procedures for transportation through each of these means.

Section II. AIR TRANSPORTATION

3-1. Fixed Wing

a. When a C-124 or comparable cargo plane is available, two antennas of a system may be loaded and transported without unstowing or stacking.

(1) Loading of the antenna into the aircraft may be accomplished without the use of special handling equipment.

(2) Prepare the aircraft in accordance with Air Force T.O. IC-130A-9 Cargo Loading Technical Manual.

(3) Install the portable electric winch (part of C-130 equipment) as far forward as possible in accordance with T.O. IC-130A-9 (Paragraphs 2.93 and 2.94) using the 16,000 pound 22 F.P.M. configuration.

CAUTION

Constantly check clearance of the trailer as it enters the aircraft.

(4) Back trailer Number 1 to the rear of the aircraft and chock the wheels and secure

(5) Trailer Number 2 is loaded forward and is moved in place with its tow bar overlapping the tow bar of trailer Number 1. Lash the two trailers together at the tow bars and secure and chock trailer Number 2.

b. Secure the aircraft as outlined per T.O. IC-130A-9.

c. To unload the aircraft, simply reverse the preceding loading procedures.

Section III. GROUND TRANSPORTATION

3-2. General

The non-self-propelled trailer with two-wheel running gear possesses mobility over highways and normal cross-country terrain. The equipment may be towed with any standard military vehicle which has the following equipment:

(1) Remote air supply for air-over-hydraulic brakes.

(2) Air brake hose couplers.

(3) Standard ordnance receptacle for light system.

(4) Standarc! pintle hooks (30 to 48 inches from the ground).

(5) Twenty-four volt electrical system.

(6) After loading the trailer to the towing vehicle proceed as follows.

NOTE

Before towing the trailer, the following physical Inspection should be made.

3-3. Physical Inspection
(Fig. 3-1)

a Check pintle—tow bar connection Be sure that safety chains are CROSSED under the tow bar to give added upward support

b Check all hold-down ropes to assure stowage (Figure 1–1).

c Check air hose to assure that it is connected properly.

d. Check electrical connections between trailer and towing vehicle.

e Check wheel lugs to assure 90 ft-lbs torque

f Before starting actual towing of the trailer, test to assure proper functioning of brakes.

3-4. Towing Procedures

During towing, the following precautions must constantly be kept in mind:

a Maximum speed on improved highway should not exceed 50 miles per hour

b. Maximum speed on normal cross-country terrain should not exceed 15 miles per hour.

c. Trailer rod clearance is Z&inches, and care must be taken to avoid moving the trailer over any object exceeding this height.

d. When fording streams or running in wet conditions, the trailer must not be submerged below axle level.

CAUTION

In the event the trailer is Inadvertently submerged below axle level, the braking system must be carefully checked to assure functioning before further towing.

e. In turning or braking the trailer, the maximum ramping angle is 30 degrees which is the

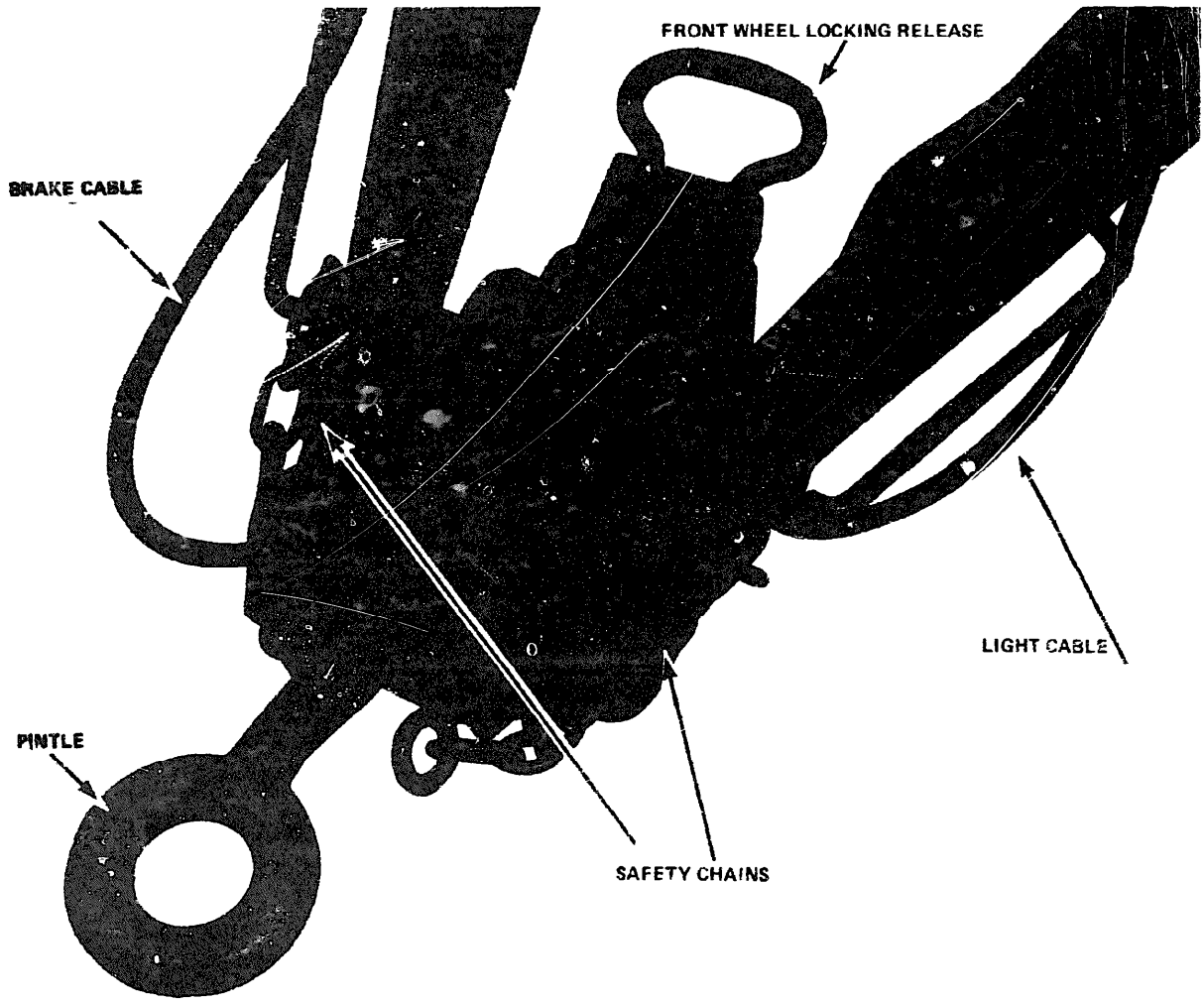

Figure 3-1. Trailer Pintle Section

angle between the rear of the towing vehicle and the tow bar of the trailer. Care must be taken to avoid reduction of this angle. A lesser degree may cause serious damage to the tow bar and/ or trailer.

f. Except in emergency stop situations, always apply brakes slowly and gradually.

g. Avoid towing trailer across sharp-backed ridges where the ramping angle is above 12-degrees.

CHAPTER 4

ERECTION PROCEDURE

Section I. GENERAL

4-1. Scope

a. This chapter contains complete instructions for installation of the Antenna AS-2823/TRC.

b. Instructions for unloading, assembly, erection, and disassembly are found in the following paragraphs. These instructions are presented in the form of sequential procedural steps to ensure optimum efficiency during installation.

(1) Set the trailer brakes.

(2) Set the outriggers.

(3) Assemble the dish to the tower.

(4) Assemble and install the feed horn and waveguide assembly.

(5) Raise the tower and reflector.

(6) Install cables and ground anchors.

4-2. Personnel Requirements

a. Two men are required to install an antenna.

b. An experienced crew should be able to assemble and erect the antenna in thirty (30) minutes. Prior to installation and erection, coordinated planning and a detailed crew briefing is essential.

c. The briefing should follow the format as defined in chapter 2.

4-3. Material Handling

When in the stowed configuration, all components are stacked on and packed within the folded antenna assembly. No special lifting equipment is required for handling the components

4-4. Tools and Test Equipment

A complete list of tools required to Implement installation of an antenna is found in Appendix B.

4-5. Hardware

All hardware required to assemble and install the antenna is either captivated to the components on which it is used or attached to the component with a wire lanyard

Section II. DISASSEMBLY AND UNLOADING

4-6. Disassembly Planning

a.' After the initial installation planning is accomplished (chapter 2), the following sequential steps must be followed for proper placement and unloading of the trailer:

(1) Determine the location of the dish and azimuth angle of reference.

(2) Position the antenna trailer so that the aft end is pointing in the desired line-of-sight direction.

b. Allow at least 20-feet of clear area directly in front of the reflector

WARNING

Because of weight and structural shape, certain components require more than one crew member for handling. When more than one crew member is required the instruction will so state.

WARNING

It is hazardous to attempt erection of the antenna in wings exceeding 30 MPH.

NOTE

When disassembling the antenna from the trailer configuration, place all items on the ground sufficient distance from the trailer so as not to obstruct the erection crew Recommended distance is 25-feet

4-7. Disassembly Procedure

a. Release the front wheel to the down position by pulling the front wheel **locking** release (Figure 3-1) and rotating the wheel to the down on set position (Figure l-l)

CAUTION

Insure that the front wheel is locked in the set position before uncoupling the trailer from towing vehicle

b Lock both trailer brakes and chock the front

wheels of the trailer (Figures l-l and 4-1)

c Remove the tarpaulin from the trailer by releasing the holding ropes (11 places) **(Figure** l-1)

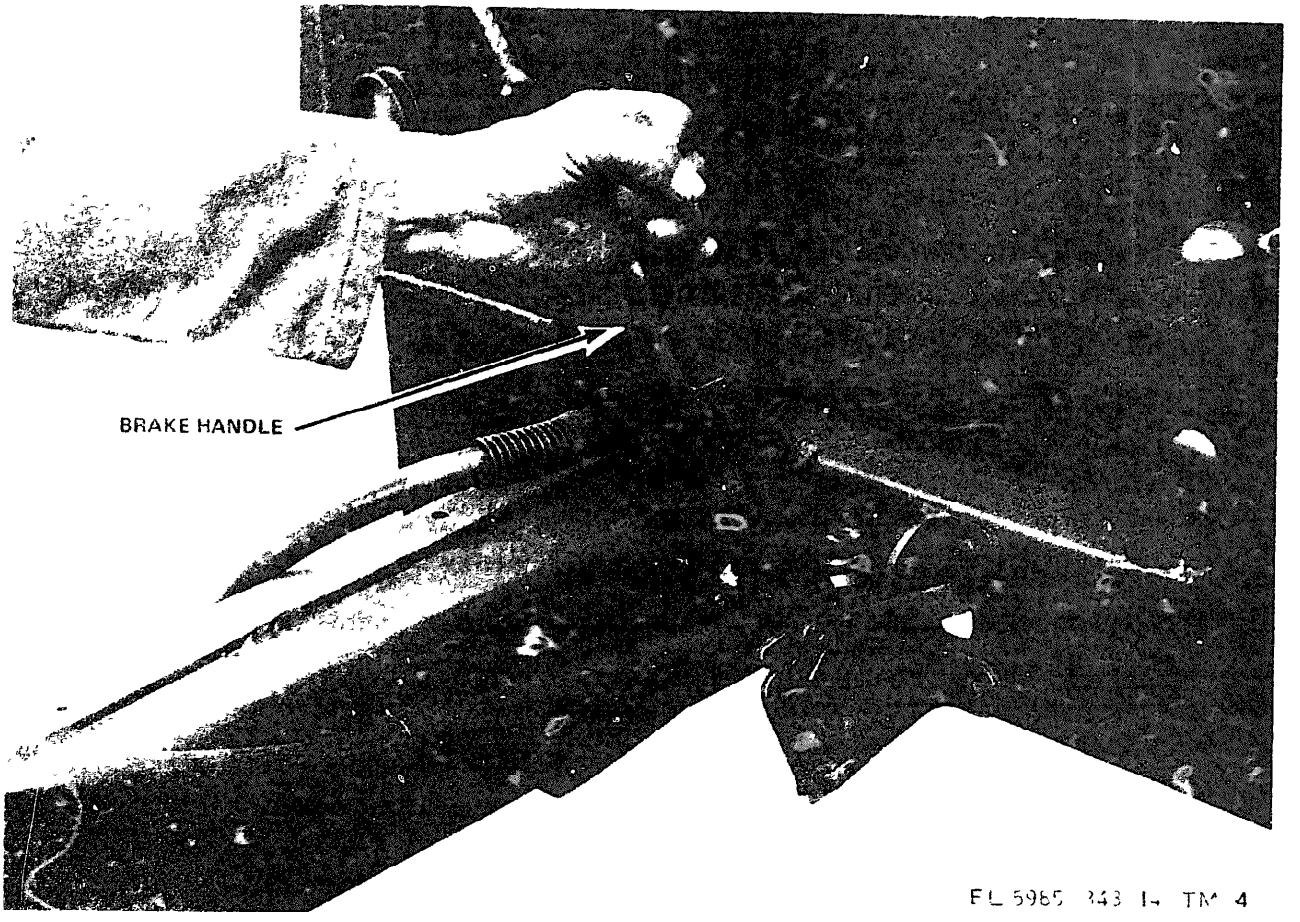

Figure 4-1. Locking Trailer Brakes

d. Remove the panel tie-down straps (4) which secure the panel quadrants to the support side rails on the trailer. These straps are removed by releasing the grip clamp (Figure 4-2) and pulling the strap through the side rails

e. Remove the tarpaulin support braces (Figure 4-3) from the trailer assembly as follows:

(1) One man should stand on each side flange of the trailer adjacent to where the brace mates with the side rails

(2) Working in unison (one man on each side) the braces are then lifted clear of the holding wells (Figure 4-3) and remove the trailer Removal of thesebraces do not require the removal of any hardware

f. Using two (2) **men on** each rail, remove the two (2) side rails from the trailer. These rails are **secured** with mating holding wells

g **Remove the** antenna panel holding device by pulling the four (4) detent pins which secure the holding device to the panels (Figure 4-4).

CAUTION

Handle the antenna panels carefully to prevent denting or bending

h Release the holding bracket at the base of the antenna panel

i Lift the four (4) antenna panels from the trailer (Figure 4-5)

j Stack each panel with the concave side down at least ten feet from the trailer Panels should be placed **on** the **same side** of the trailer **from** which they are removed.

k Unload the **tool box on** the front of the trailer (Figure 4-6) Place the tools approximately ten feet from the trailer as show in Figure 4-7.

NOTE

Check to insure that all items identi-

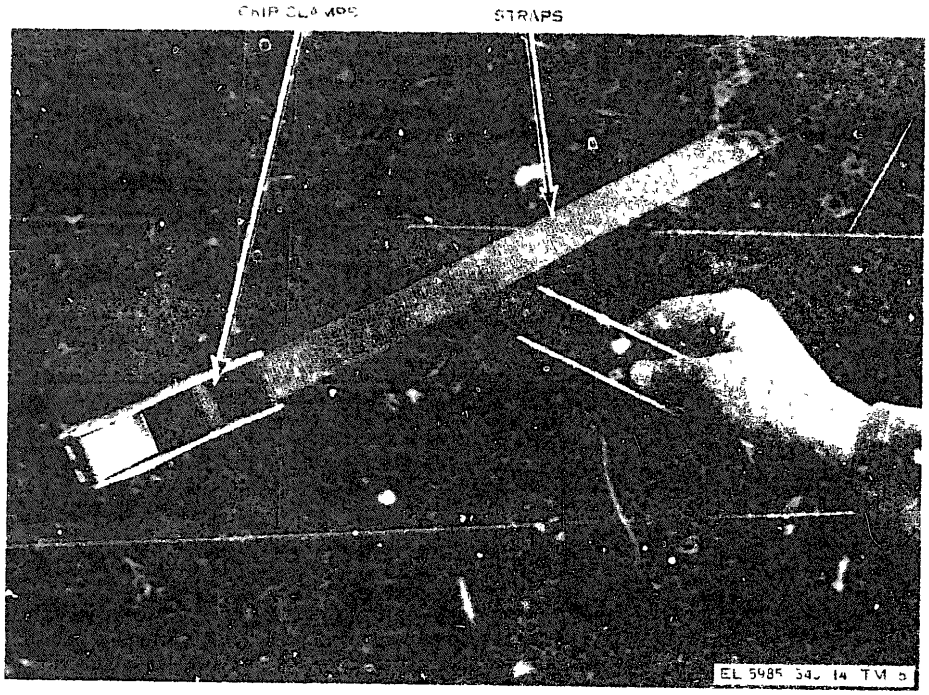

Figure 4-2. Removal of Panel Tie-Down Straps.

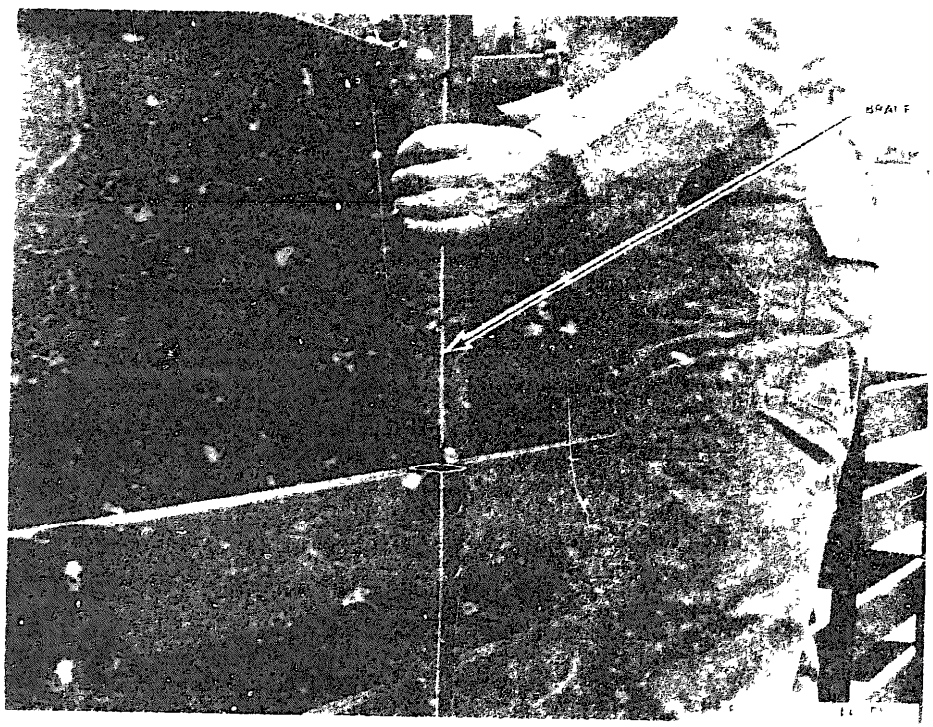

Figure 4-3. Removal of Tarpaulin Braces

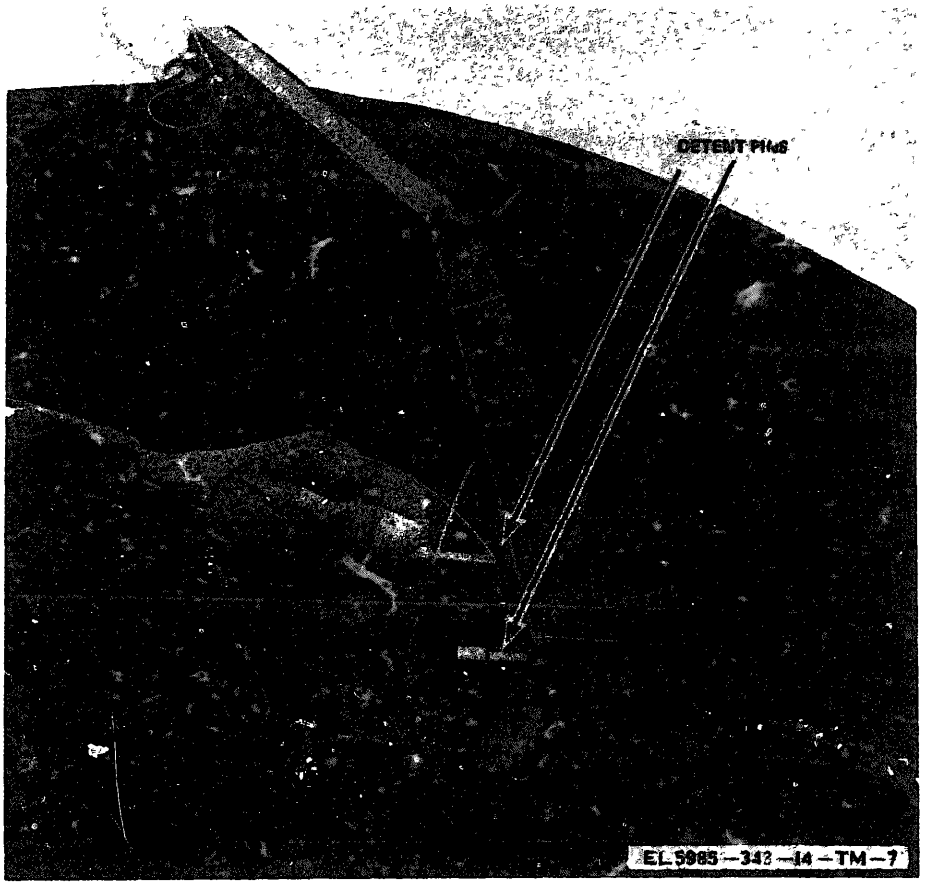

Figure 4-4. Removal of Antenna Panel Holding Device

fied in Figure 4-7 are in fact supplied with the trailer

l. Extend the four outrigger legs (one at each corner) of the trailer as follows:

(1) Remove the safety clip from the outrigger holding pins (Figure 4-8) and remove the outrigger holding pins (Figure 4-9)

(2) Extend the four outriggers (Figure 4-10).

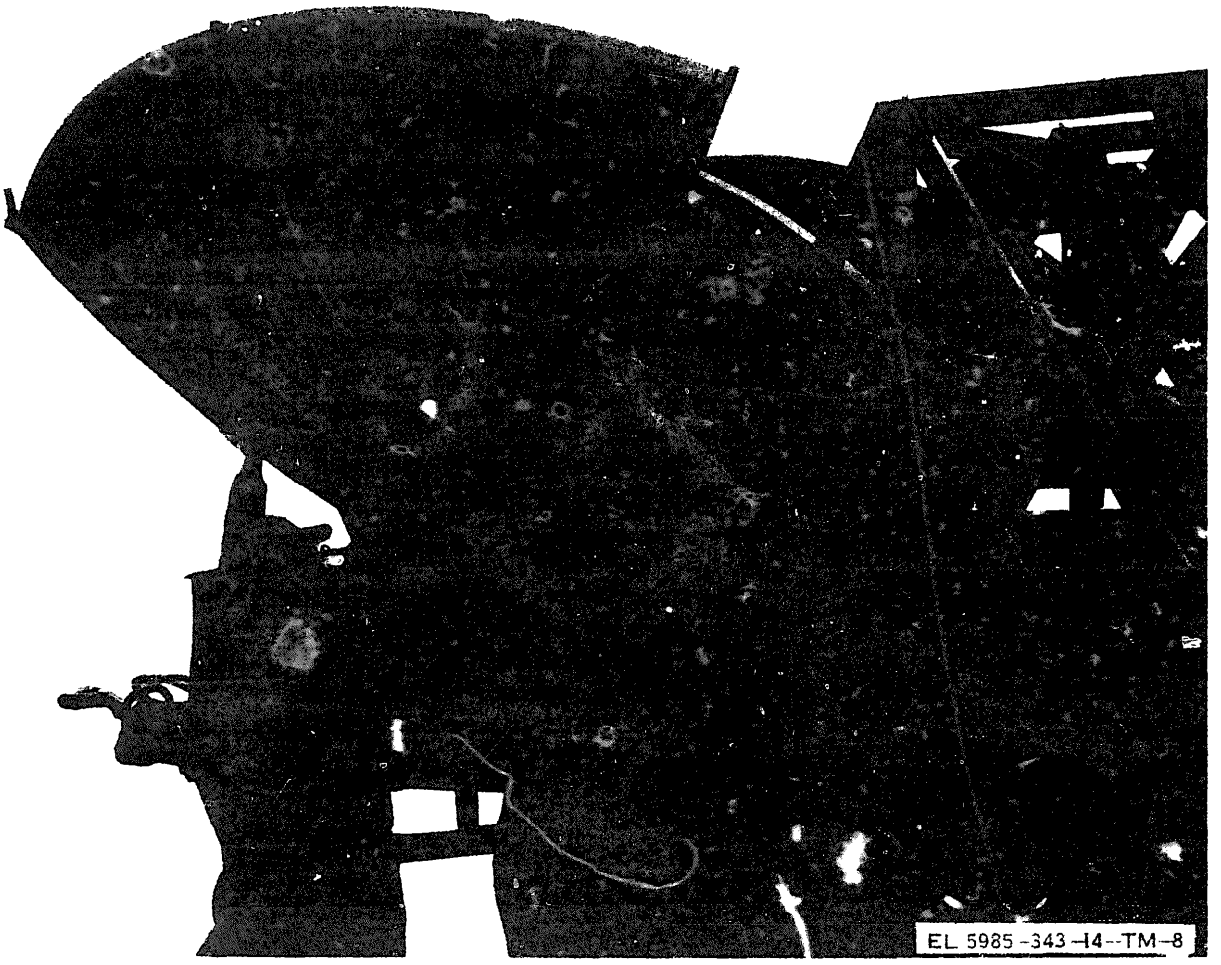

Figure 4-5. Removal** of **Antenna** Panels from **the Trader

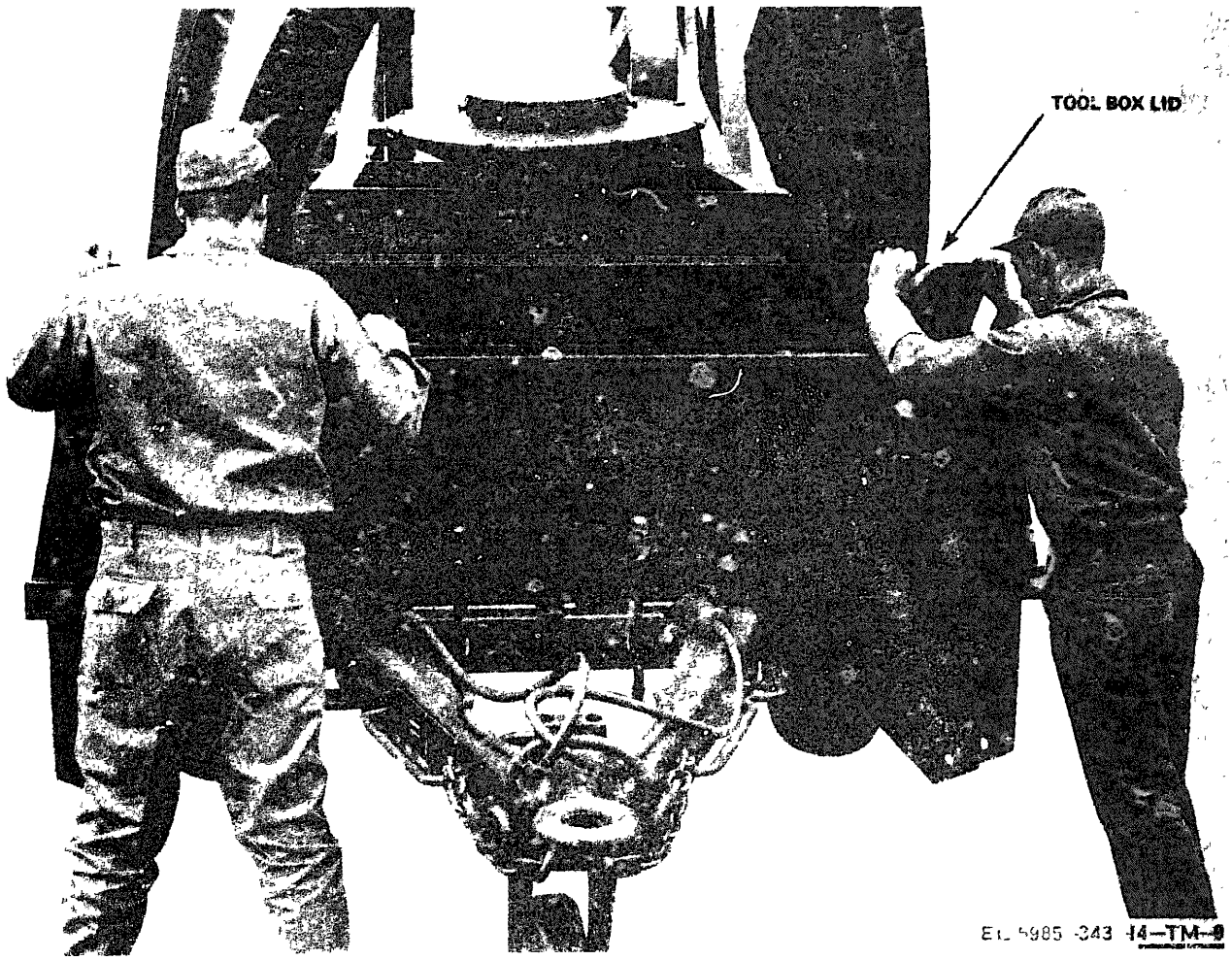

Figure ***4-6. Tool Box Location***

(3) Attach a foot pad to each outrigger using the foot pad detent pins (Figure 4-11)

NOTE

Insure that safety clips are replaced in the end of the foot pad detent pins.

Item No	Item Description	Quantity Required
1	Sledge Hammer	1
2	Driving Rod	1
3	Driving Rod Cap	1
4	Foot Pads with Pins	4 ea.
5	Winch Extension Bar	1
6	Winch Extension Crank Handle	1
7	Grounding Rod	1
8	Feed Waveguide Support	1
9	Feed Support Structures	2
10	Shovel	1
11	Ground Anchors	4
12	Guy and Anchor Cable Assemblies	4
13	Outrigger Pins	4
14	Hydraulic Jack and Handle	1 ea.
15	Ground Stakes	4
16	Ground Stakes Holding Rod	1

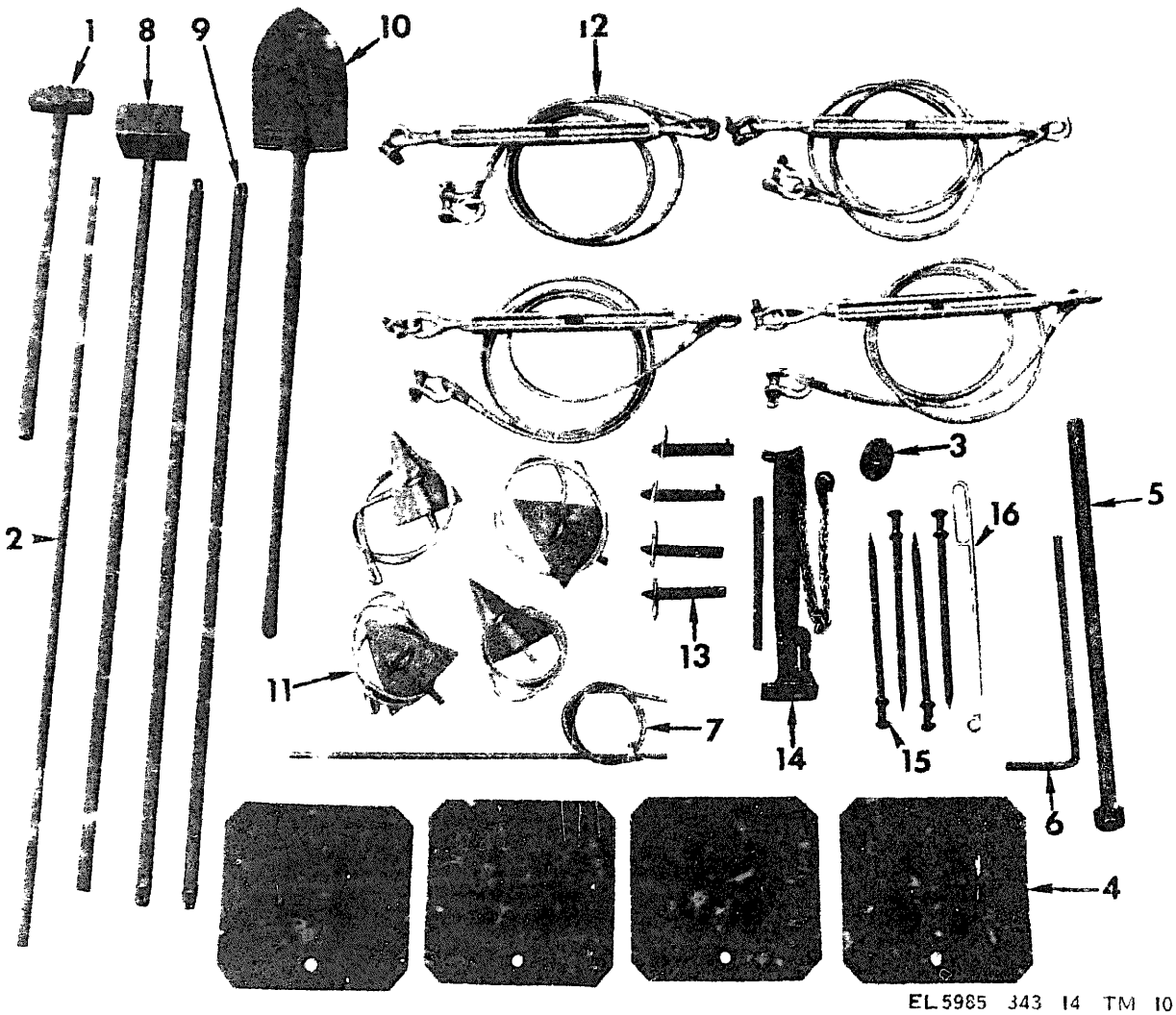

Figure 4-7. Tool Box Contents.

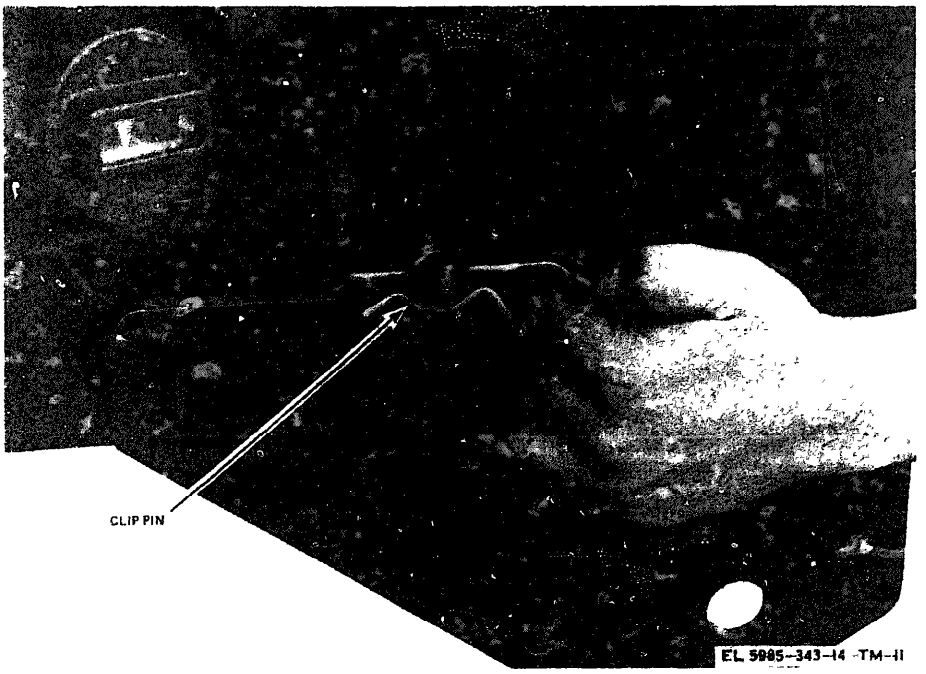

Figure 4-8. Removal of Outrigger Holding Pin Safety ***Clip.***

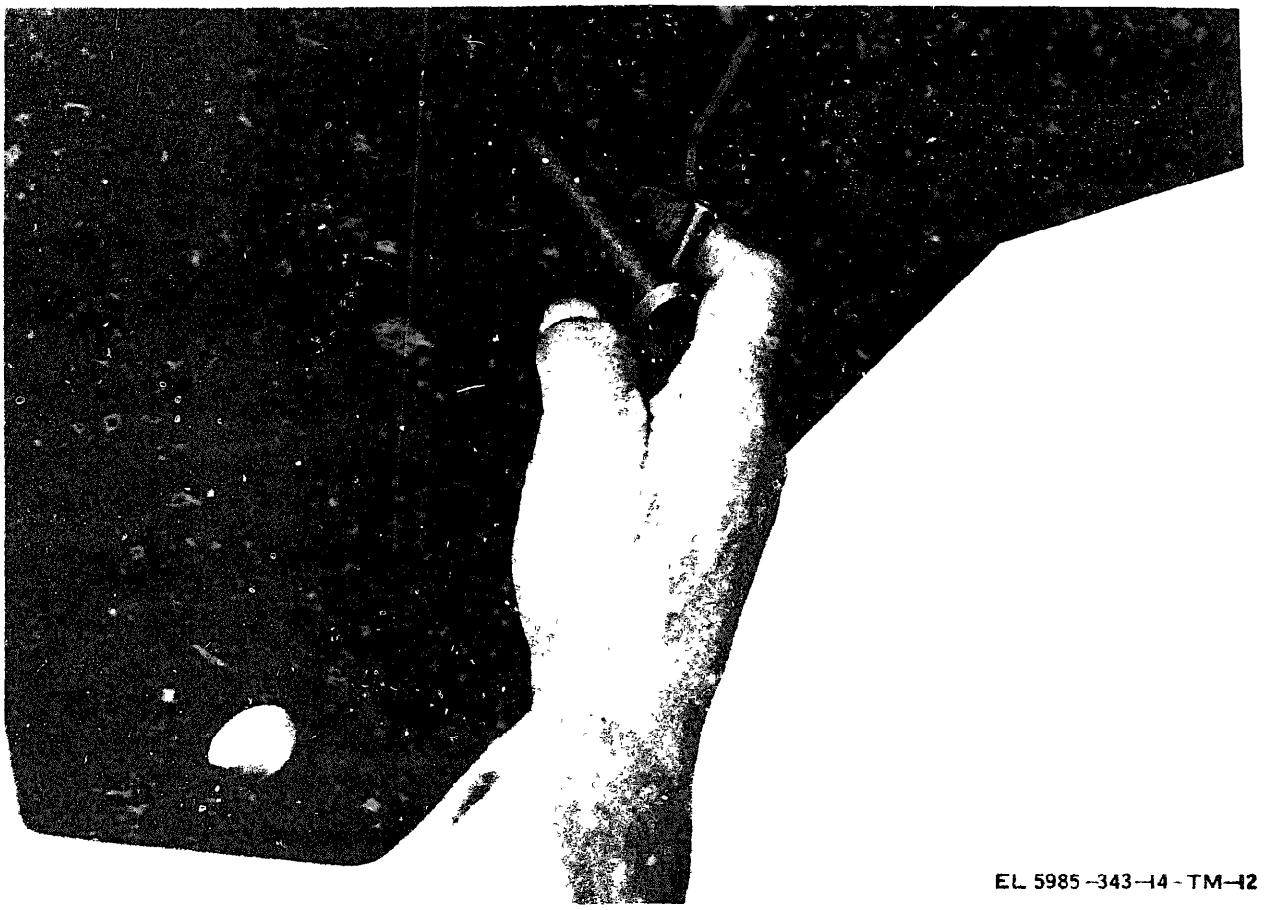

Figure 4-9. Removal of Outrigger Holding Pin.

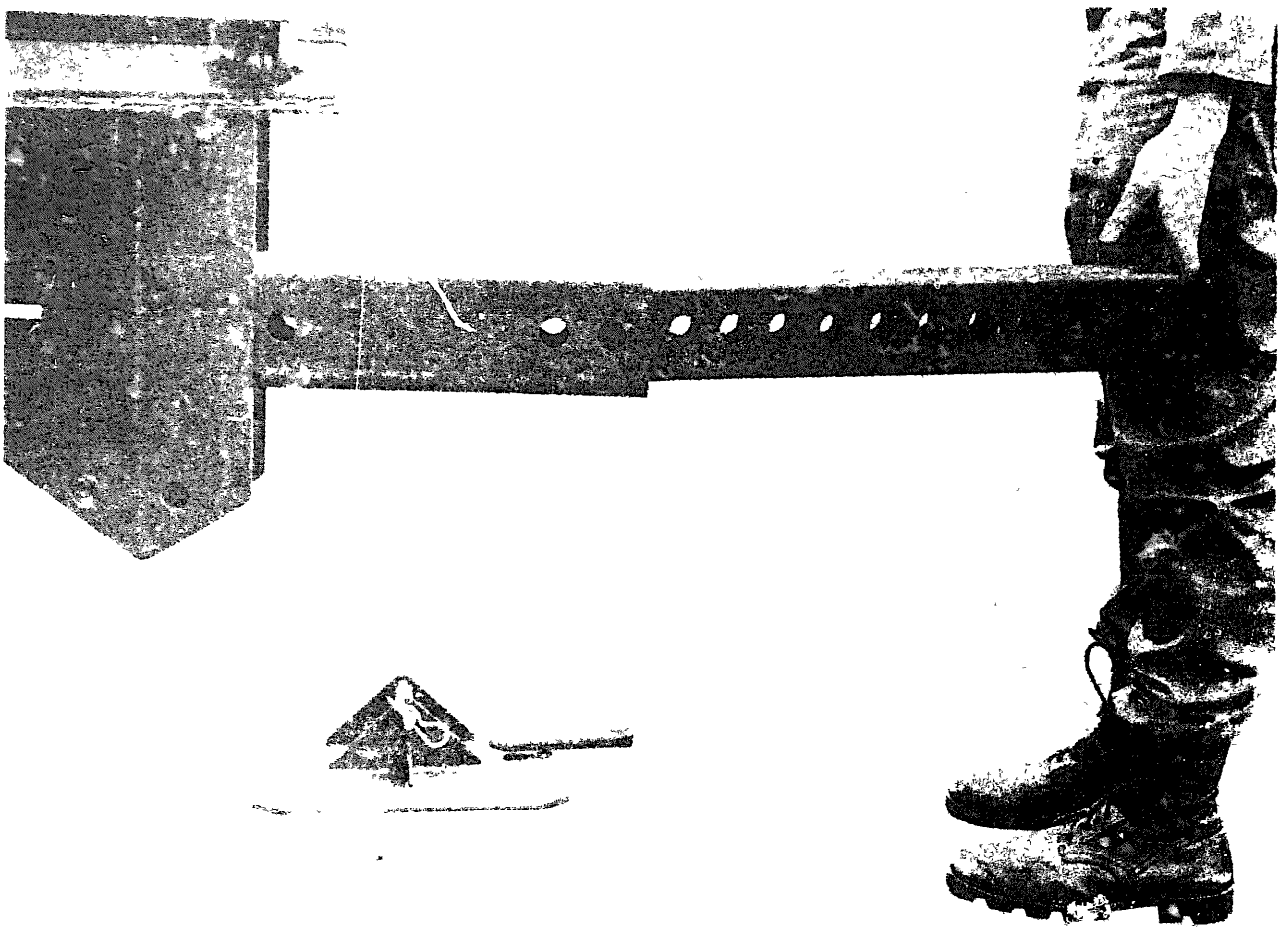

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Figure 4-10. Extension of Outrigger Leg.

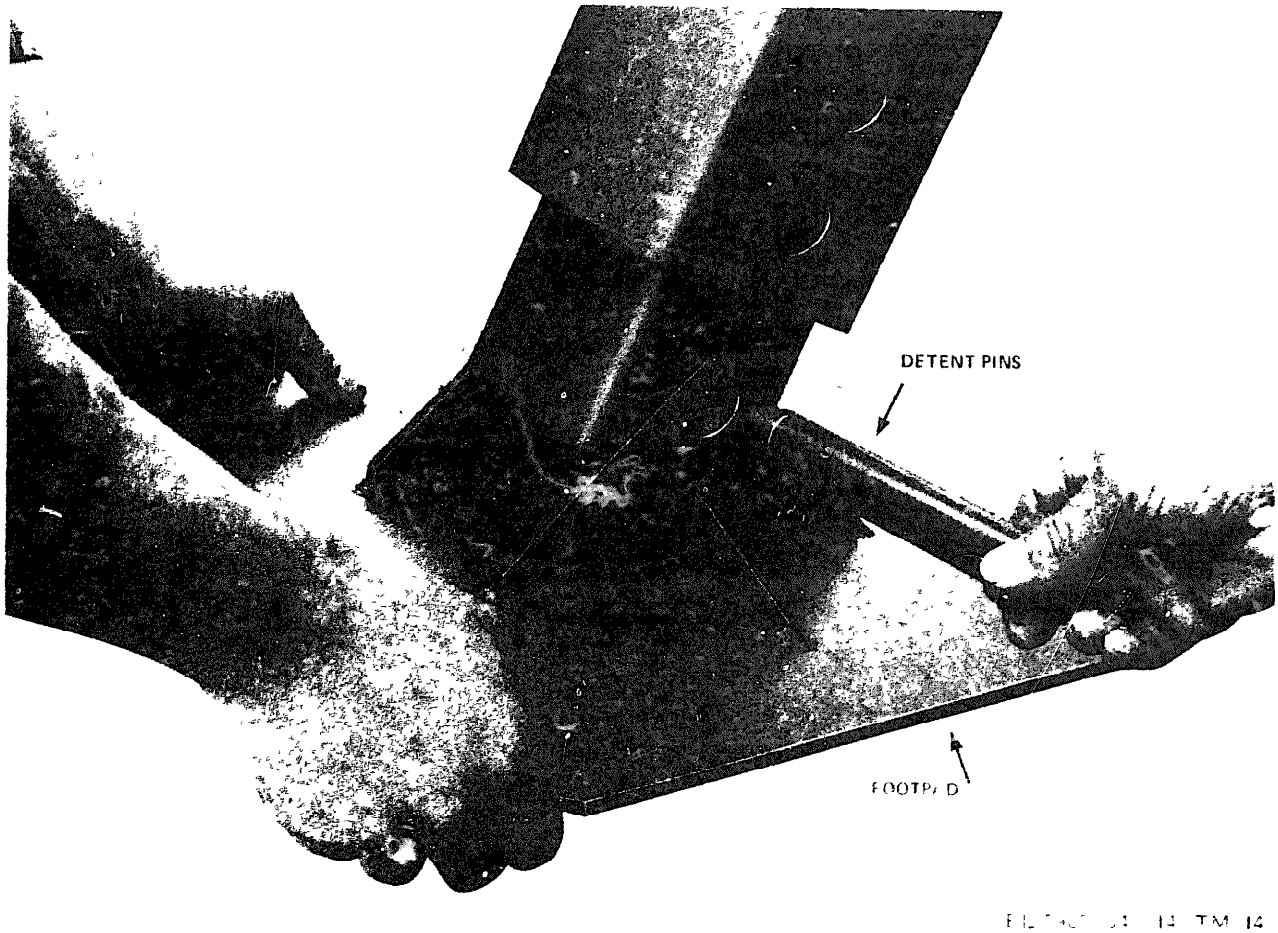

Figure 4-11. Attachment of Foot Pad to the Outrigger

4-8. Leveling Procedure

Using the hydraulic Jack located in the tool box, level the trailer as follows:

a. Attach the Jack to the rear of the trailer, directly centered (Figure 4-12).

b Raise the rear of the trailer and adjust the two rear outriggers to assume the load of the trailer.

CAUTION

When antenna installation is on sloping terrain, the earth where the Jack pads make contact must be leveled. This may be accomplished with the shovel provided.

NOTE

Circular level vials are provided on the sides and front of the trailer to aid in leveling (Figures 4-13 and 4-14)

CAUTION

Care should be exercised to insure that both sections of the outrigger telescoping members are securely pinned

c Pin the outriggers to assume the load of the trailer, ensure that the pin is seated and install the safety clip

d Repeat the same process for the front of the trailer

e Monitor the leveling vials on the trailer and adjust the height of the outriggers until the bubbles in the vials are centered between the two reference lines

f When the trailer is level, be sure that all load IS borne by the outriggers and that the trailer wheels are free of load (Figure 4-15)

4-9. Removal of Feed Horn and Waveguide

CAUTION

Extreme caution should be exercised at all times in the handling of the waveguide and feed horn Do not scuff or bump

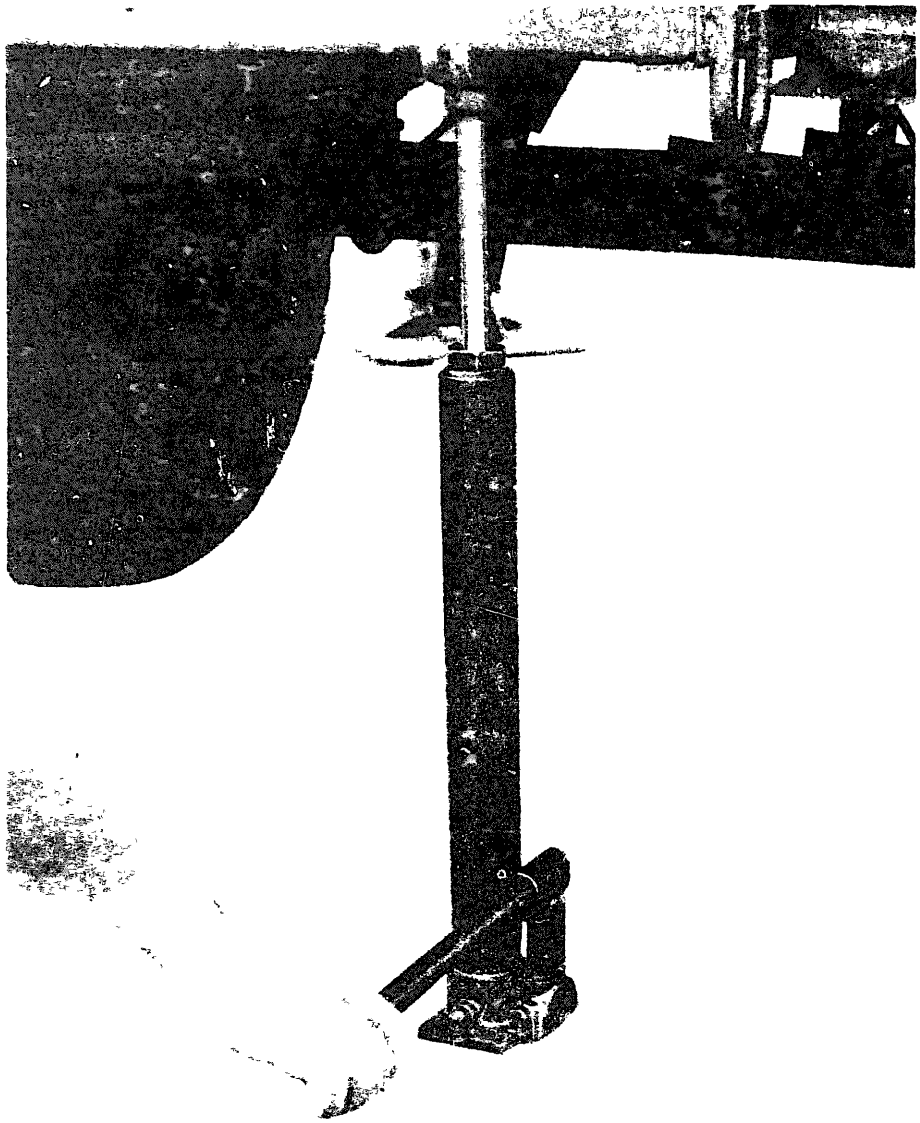

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Figure 4-12. Attachment of Jack to the rear of the *trader.*

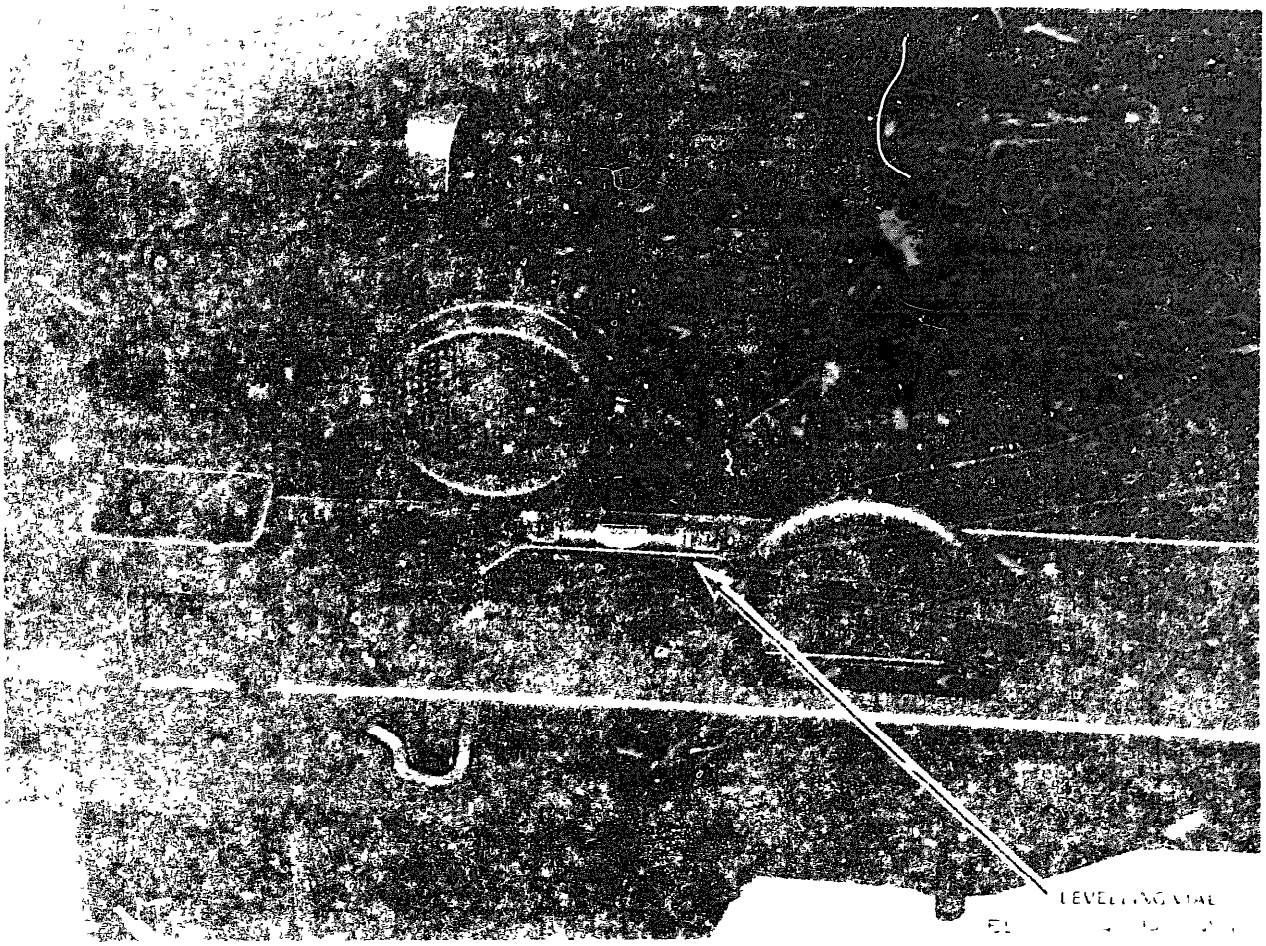

Figure 4-13. Side Leveling Vial

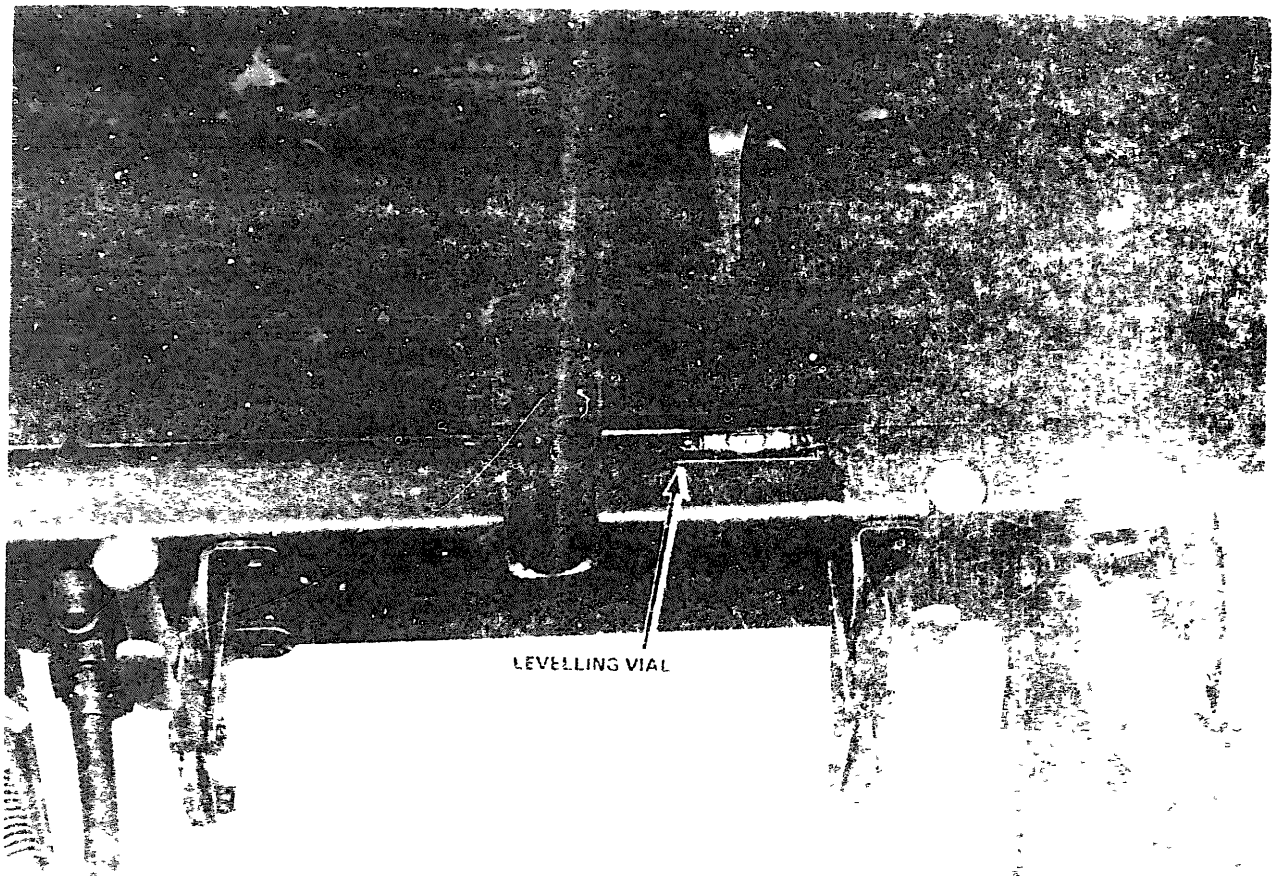

Figure 4-14. Front Leveling Vial

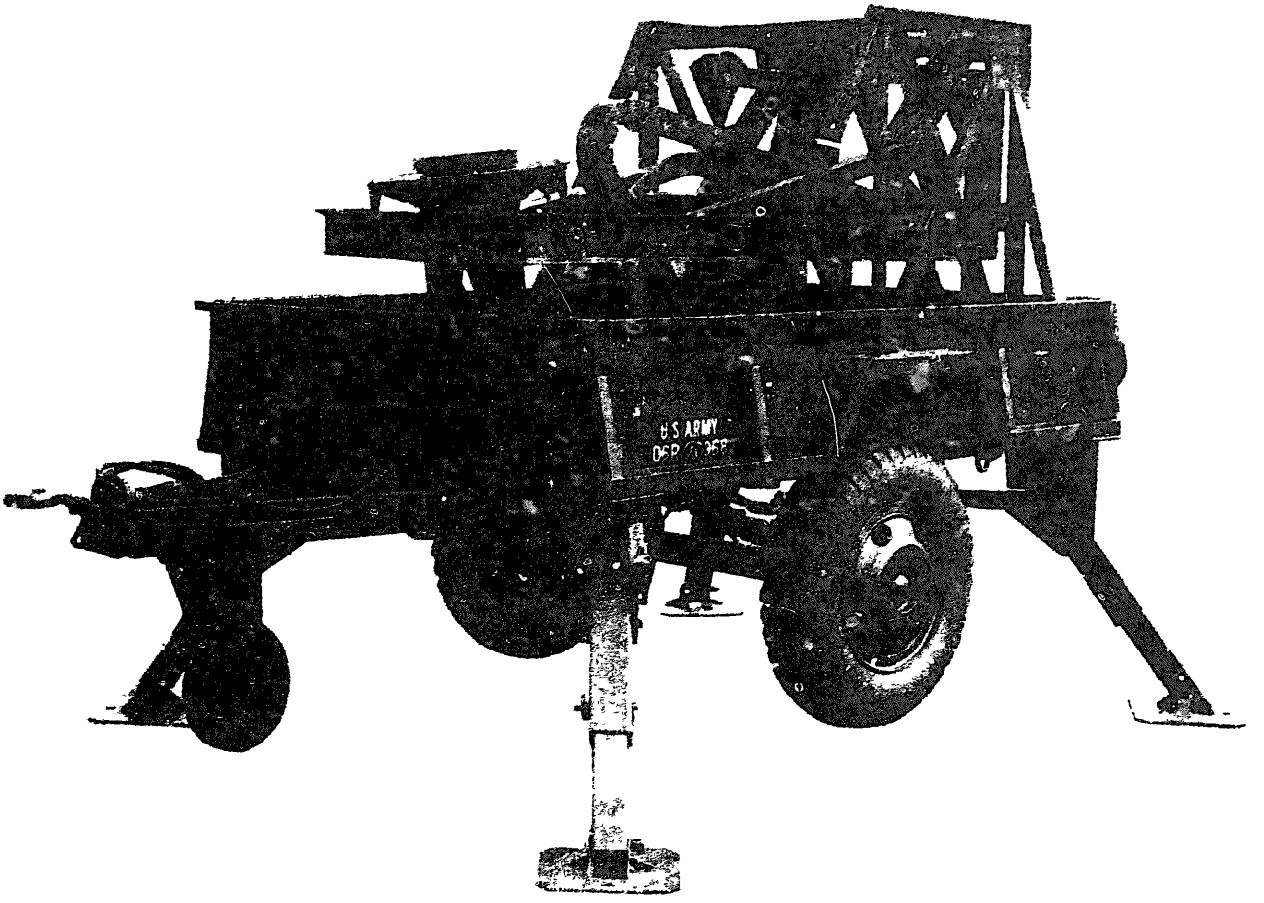

Figure 4-15. Trader Leveled with Outrigger In Place.

a. Remove the detent pin holding the feed section to the reflector tower (Figure 4-16).

b. Release the straps securing the waveguide (Figure 4-17).

c. Remove the feed horn and waveguide assembly from the trailer a, d carefully replace on the ground at least 10-feet away from the working area (Figure 4-18)

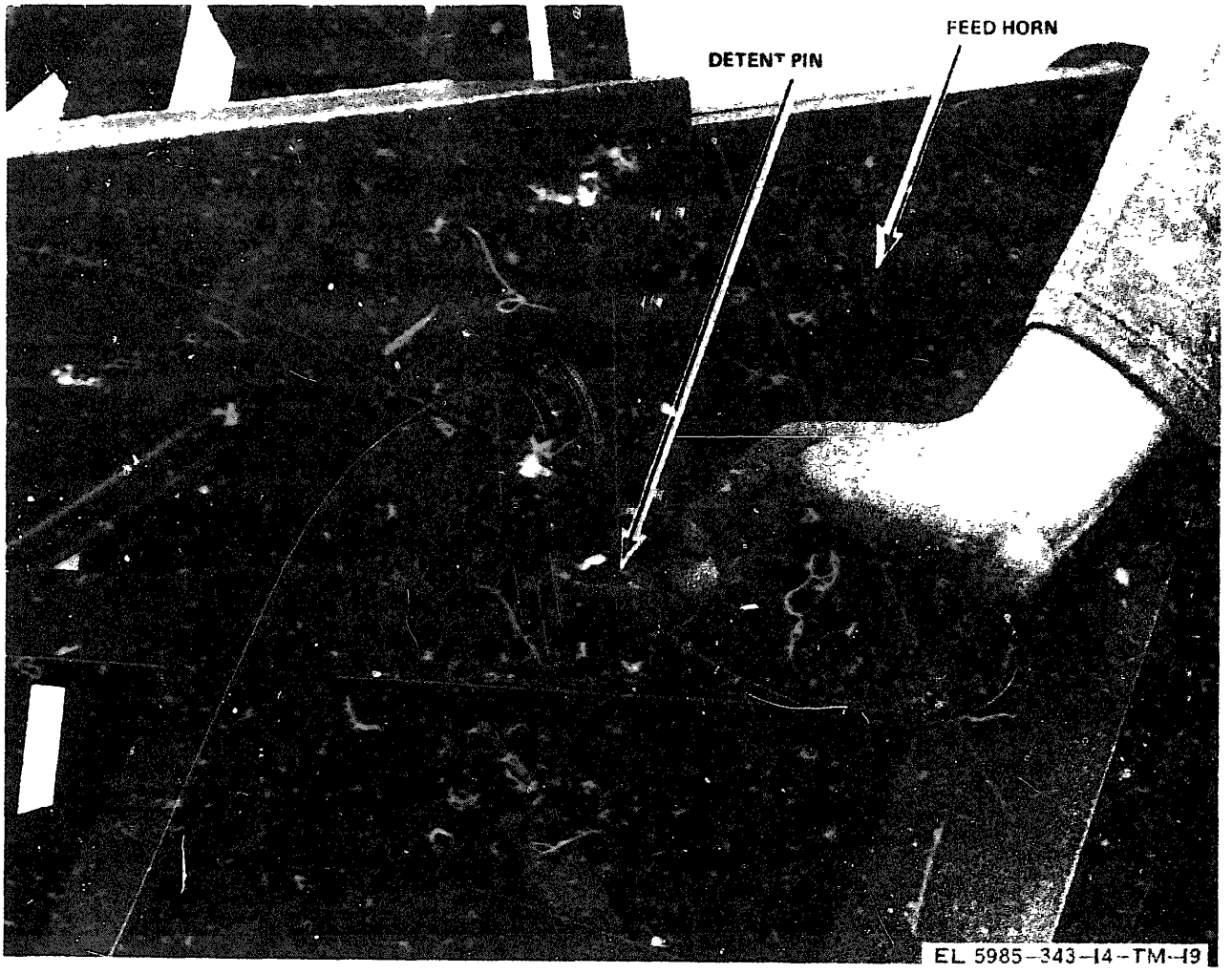

Figure 4-16. ***Removal of Feed Holding*** Detent ***Pm.***

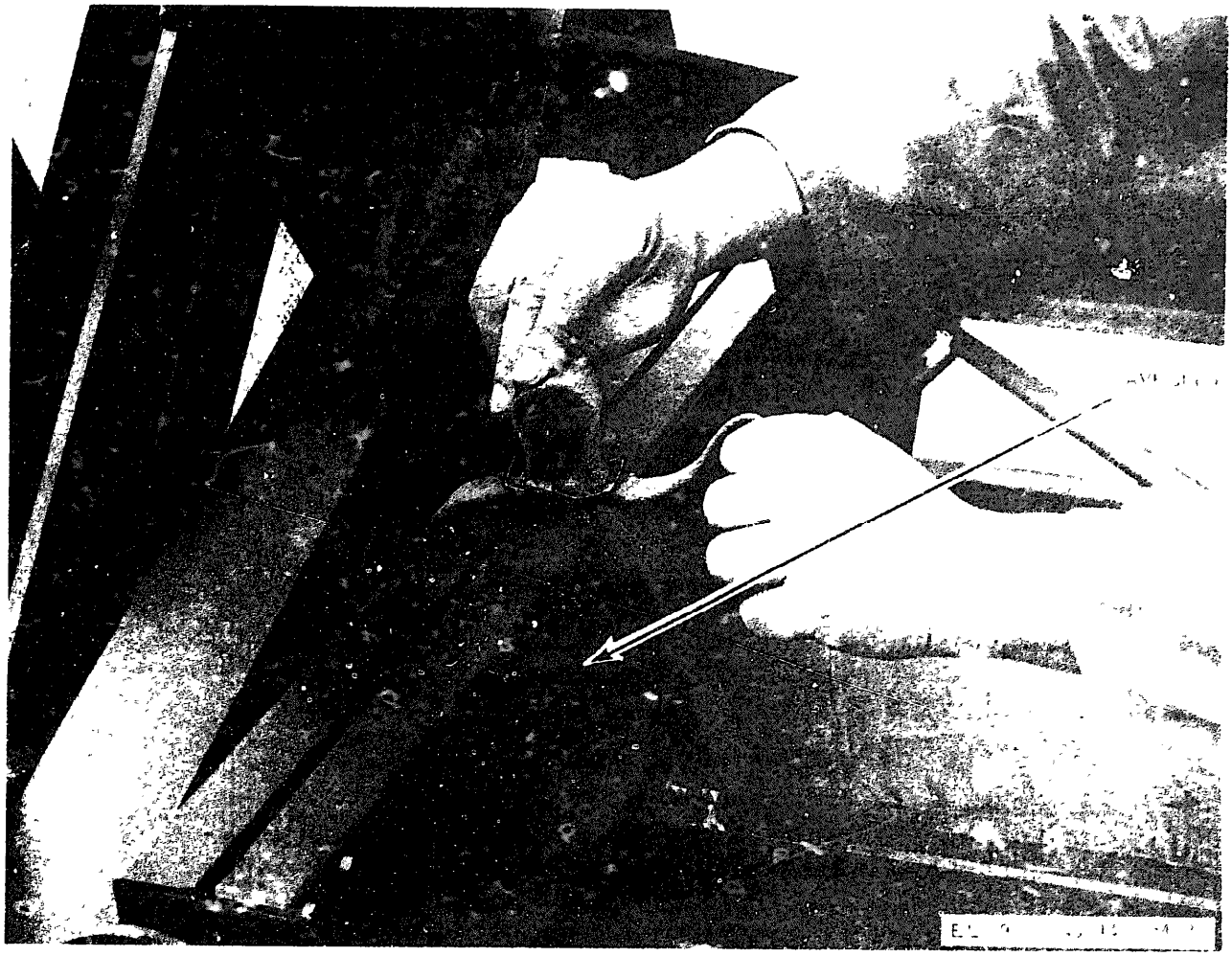

Figure 4-17. *Removal of Waveguide Holding Strap.*

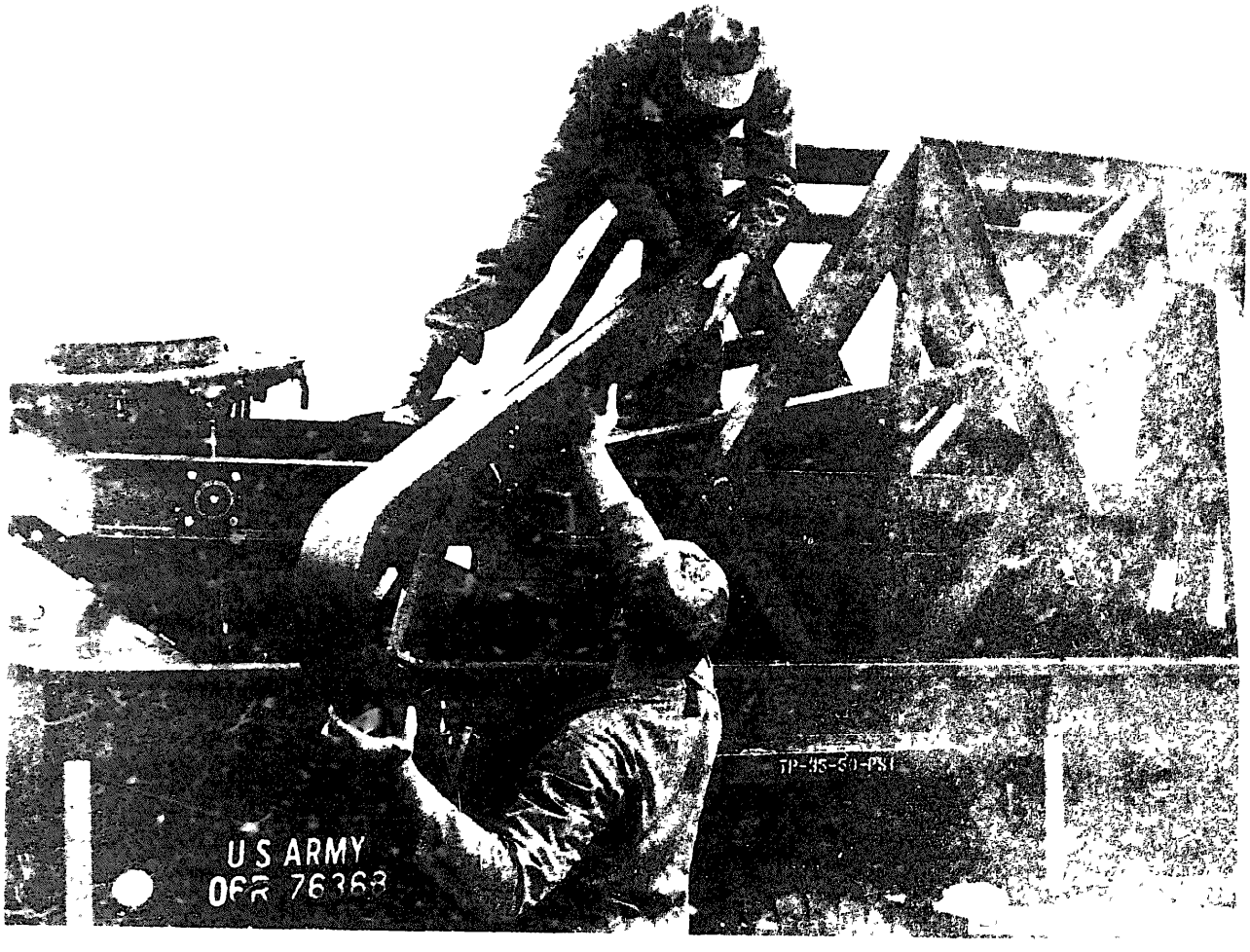

Figure 4-18. Removal of Feed Horn and Waveguide Assembly from the Trailer

Section III. ASSEMBLING THE ANTENNA

4-10. Assembly

a Lower the trailer tailgate to horizontal position and chain in place

b Release the two mast tie bar clamps on the mast tie bar to allow the mast to swing up These clamps are located on the rear floor of the trailer just inside the tail gate (Figure 4–19)

c Remove the two cotter pins from the mast tie bar and remove the tie bar by sliding the mast swing arms to the outside (Figure 4–20)

d Remove the holding pin from the winch assembly shaft (Figure 4–21)

e Slide the crank shaft into place (Figure 4–22) and align the detent pin hole, on the shaft, with the mating hole on the winch

f Pin the crank shaft in place into the winch (Figure 4-23) and tighten keeper bolt

g Install the winch crank handle into the shaft and tighten the keeper bolt to secure (Figure 4–24)

h Place the winch brake selector pin in the up or extracted position (Figure 4–25)

i Turn the winch counterclockwise approximately four turns of the cable to pay out the winch drum

WARNING

Insure that the swing bolts for the winch cable bar latches are in the down position

j Raise each swing arm separately until they can be locked in place with the mast tie bar in horizontal position (Figure 4-26) and install tie bar into place (Figure 4-27)

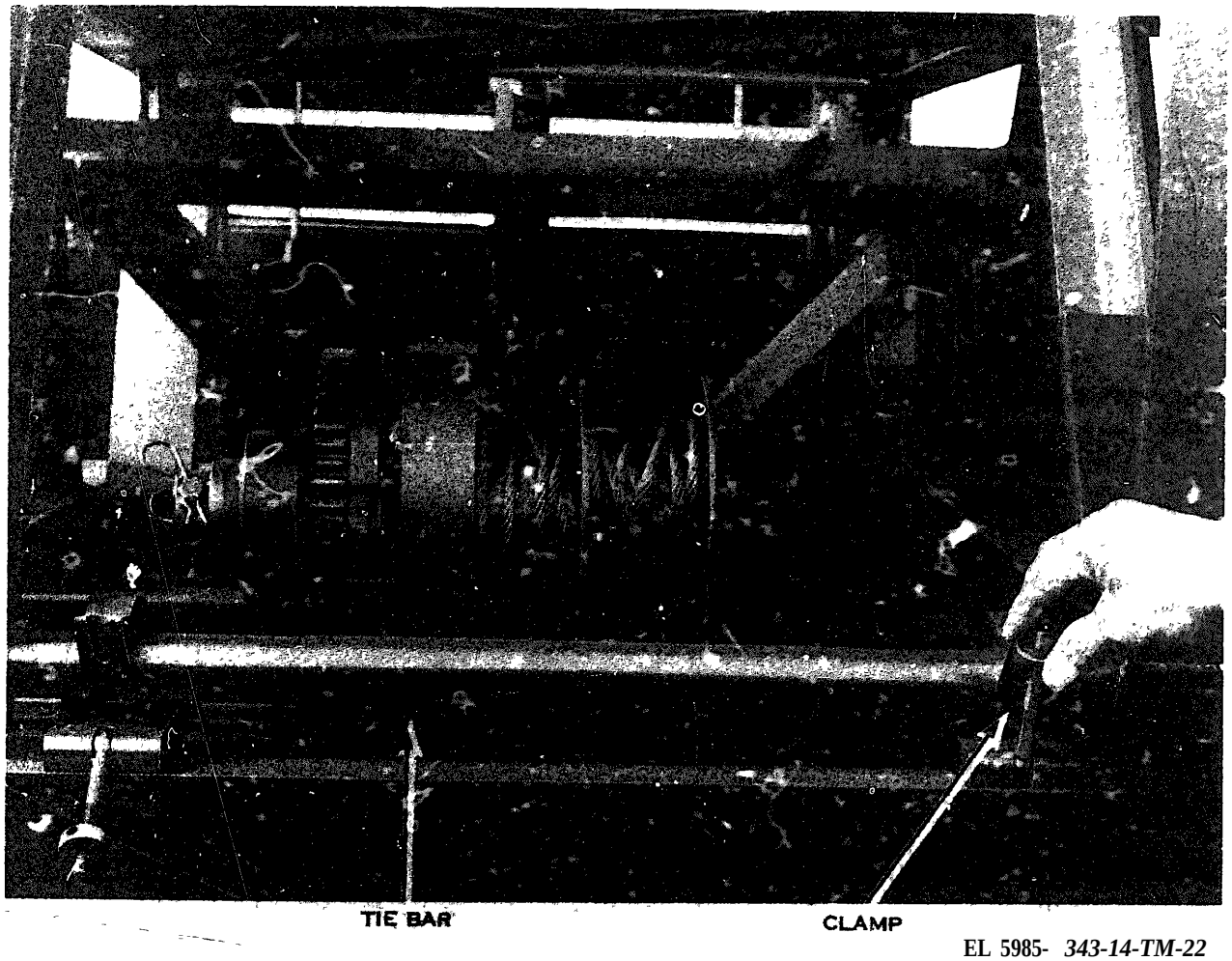

Figure 4-19. Release the **Mast** *Tie Bar Clamps.*

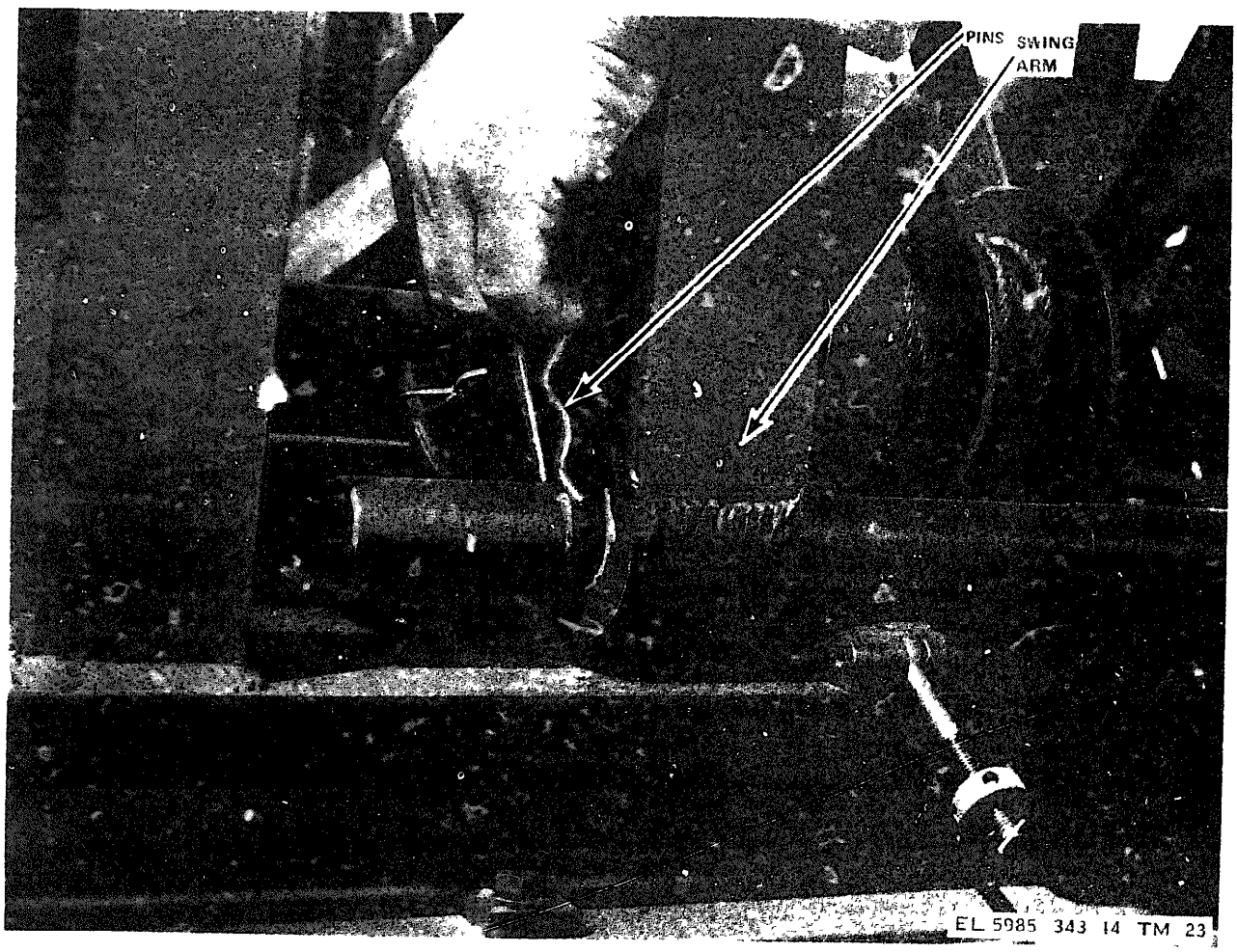

Figure 4-20. Removal of Tie Bar Pins.

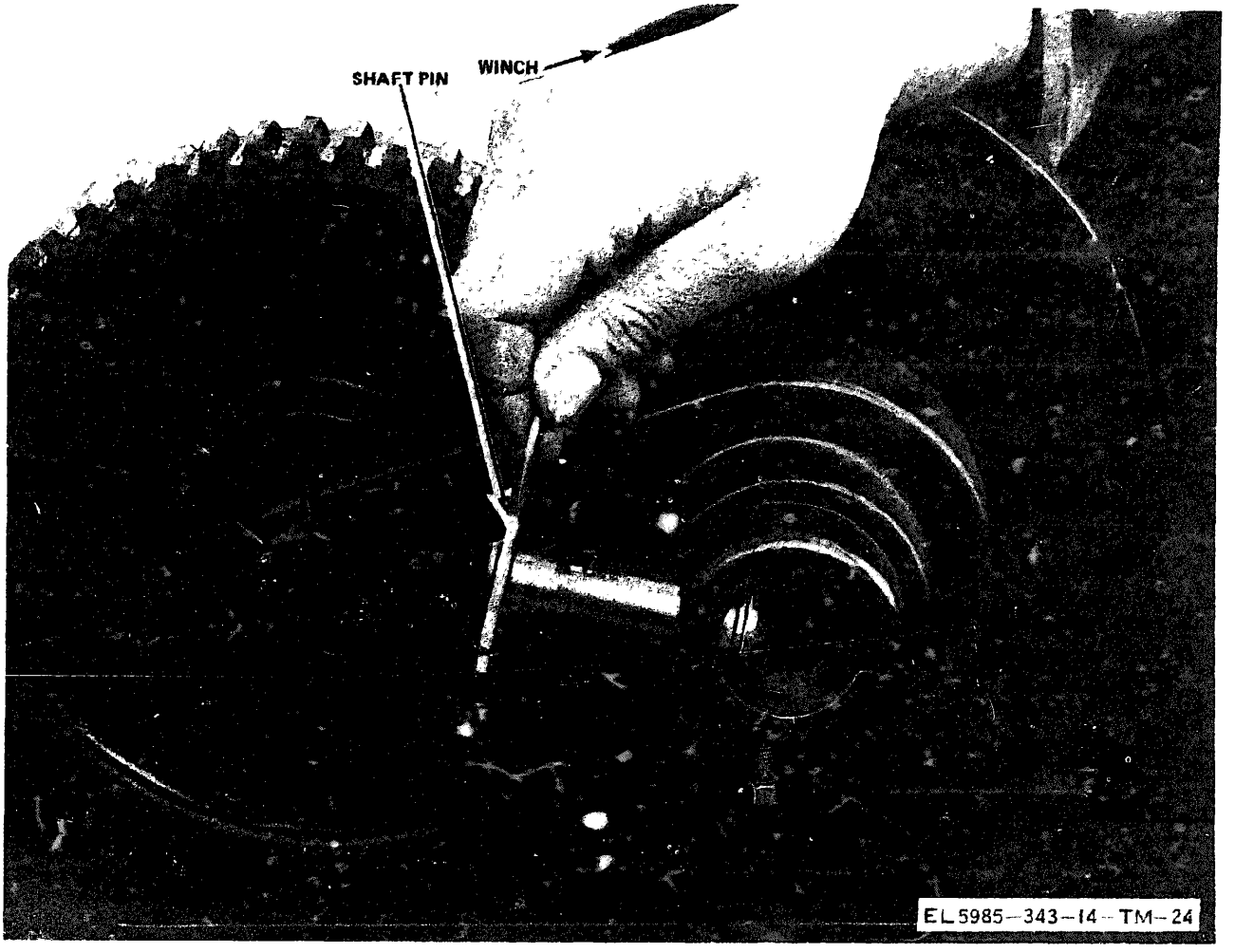

Figure 4-21. Removal of Shaft Holding Pin.

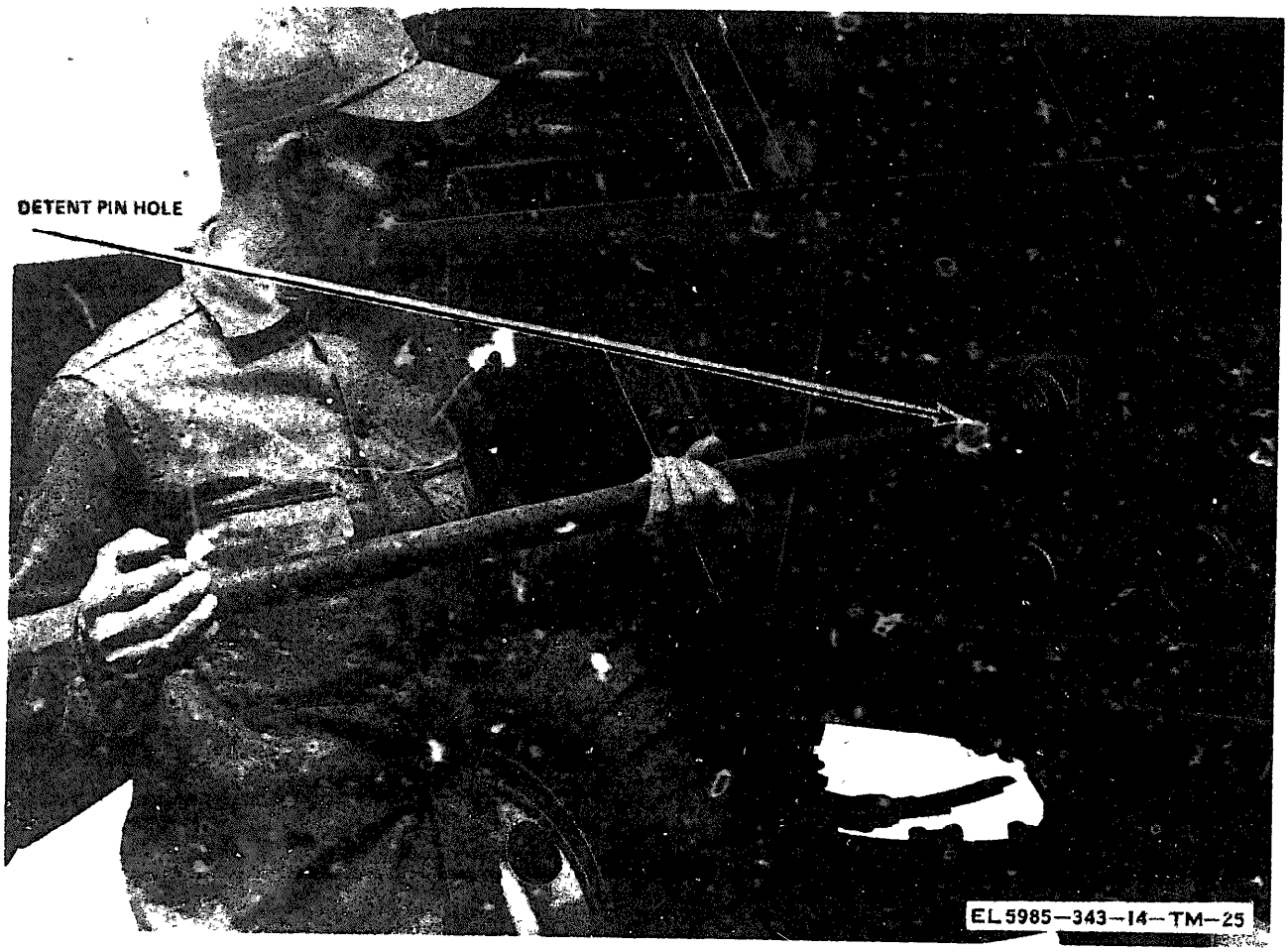

Figure 4-22. Installation of Winch Crank Shaft.

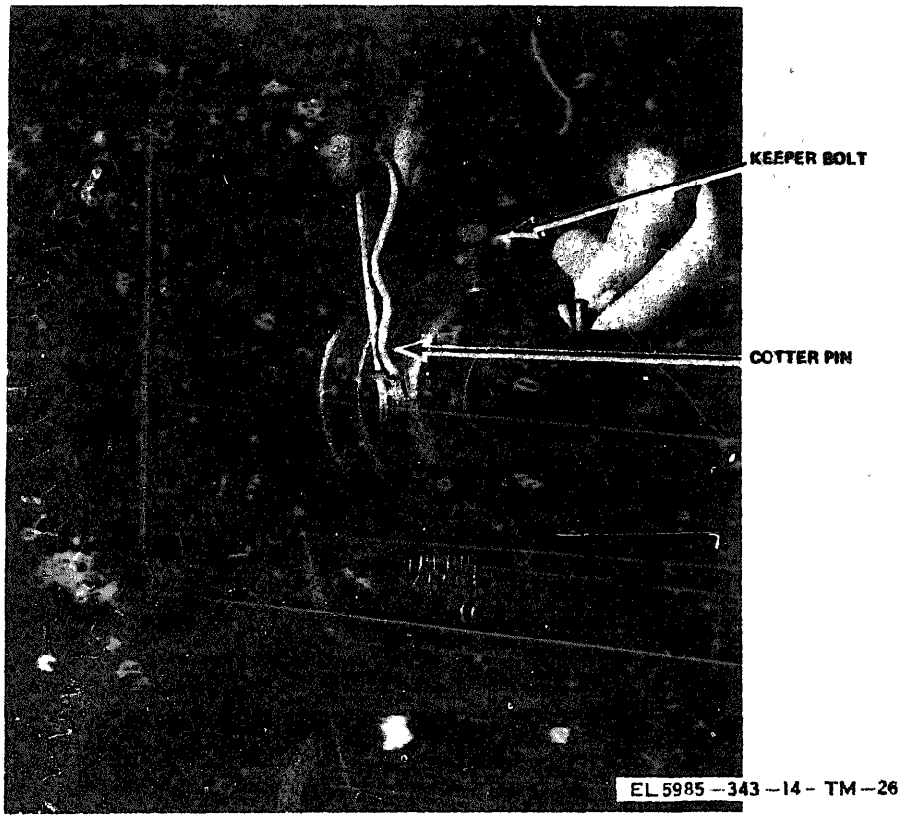

Figure 4-23. Installation** of Detent Pins with **Crank Shaft.

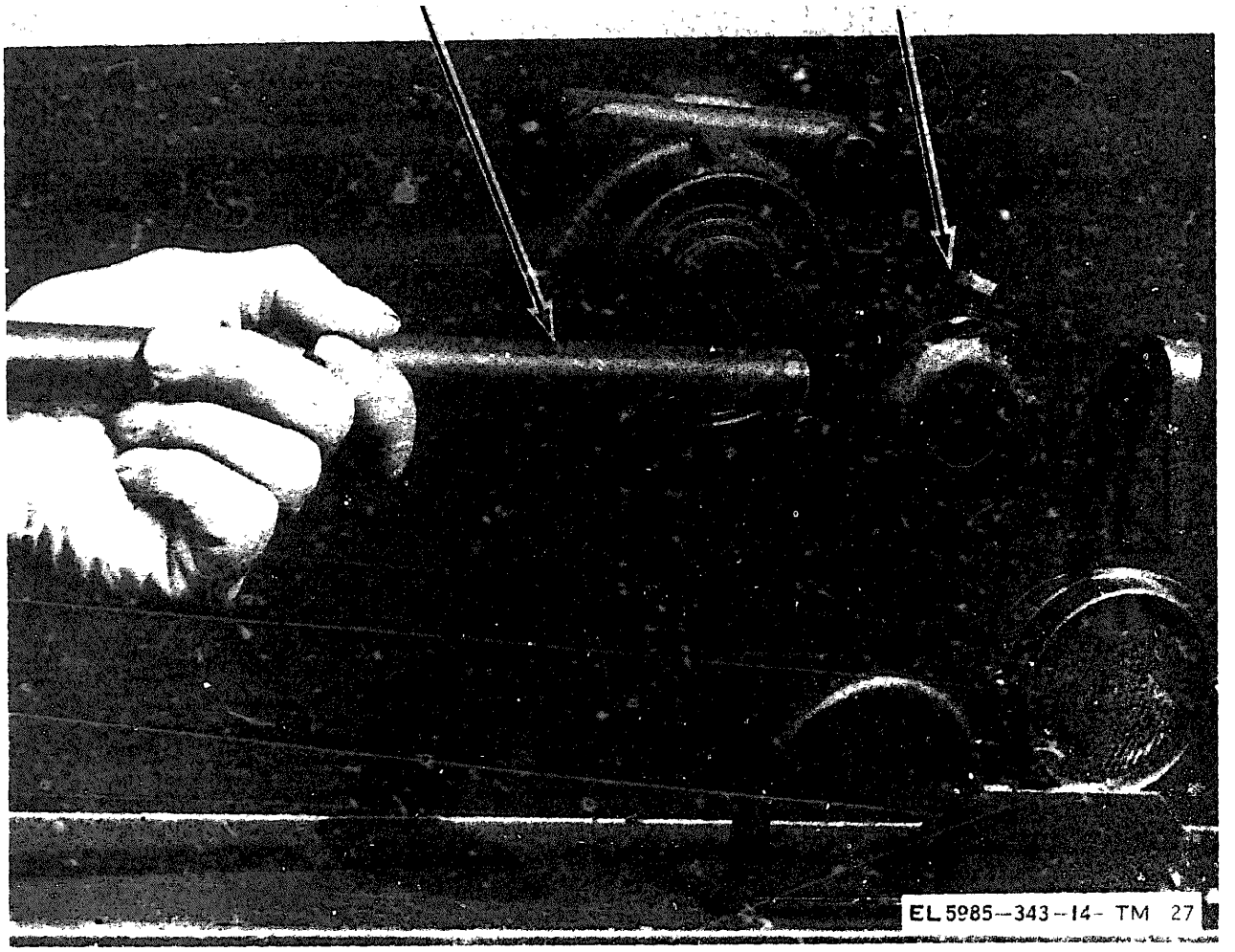

Figure 4-24. Installation of Crank Shaft Handle.

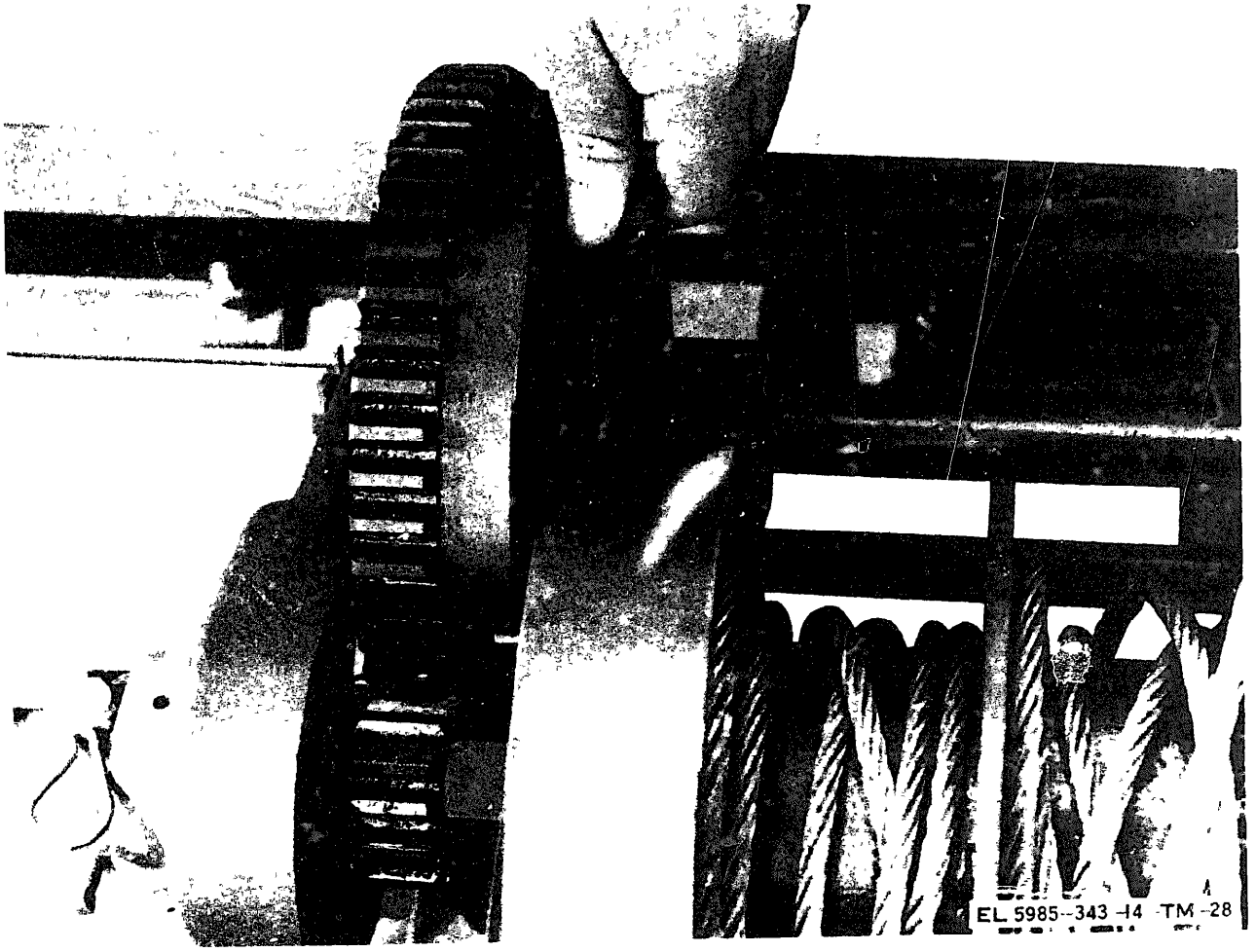

Figure 4-25 Winch Brake Selector Pm.

Figure 4-26. Raising Swing Arms and Installing Cable Bar

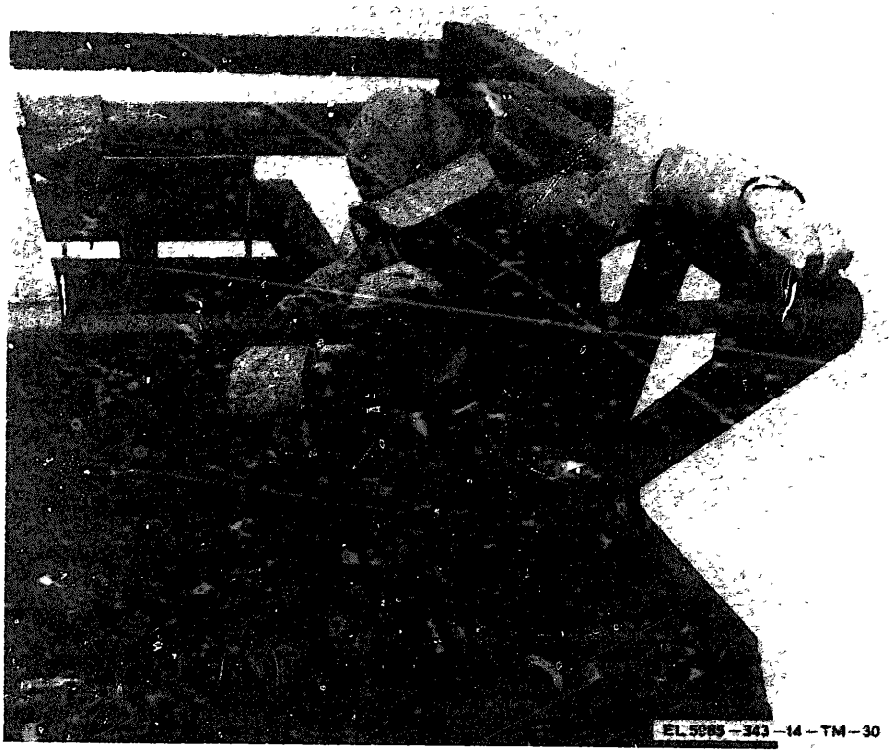

Figure 4-27. Pinning of Cable Bar to the Swing Arms.

k Pin the swing arms to the upper mast assembly (clevises) with the attached detent pins (Figure 4-28)

l Remove the vertex plate from its stowed position at the center of the reflector mounting pad by releasing the two detent pins on each side. (Figures 4-29, 4-30, 4-31). Place the vertex plate where it will not be damaged during subsequent operations.

NOTES

1 Reference locations of reflector panels ***are*** called out **as** clock positions. The trailer tow bar is considered twelve o'clock and other positions are referenced to that point.

2 Before beginning the installation of the reflector panels, adjust the elevation of the reflector mounting pad with the elevation jack to provide clearance of the antenna structure when installing the six o'clock reflector panel.

3. All reflector panels are interchangeable and may assume any clock position in the dish

m Install the 6 o'clock reflector panel by inserting the inner radius of the reflector panel into the groove provided on the reflector mounting pad (Figure 4-32) Using the quick acting fastener on the reflector panel radius, lock the inner radius of the reflector panel to the mounting pad (Figure 4-33). Then lock the reflector panel to the outer edge of the mounting pad with the quick acting fastener which is attached to the mounting pad (Figure 4-34).

n. Install the 3 o'clock and 9 o'clock reflector panels in the same manner as described in Step m.

CAUTION

Do not attach intermediate fasteners on reflector panel longitudinals at this point. Loosely fasten the three reflector panels together at perimeter only.

NOTE

The following step is performed on the ground.

CAUTION

Use extreme care in handling the waveguide feed horn assembly. Do not drop, bump or scuff.

o. Attach feed support spar to the mounting tabs provided on the feed horn mounting flange (Figure 4-35). Use detent pins for attachment. Install the waveguide feed horn assembly in the following manner:

(1) One man stands on the trailer in the 12 o'clock reflector panel gap, and a second man

Figure 4-28. Pinning of Swing Arms to the Upper Mast Assembly.

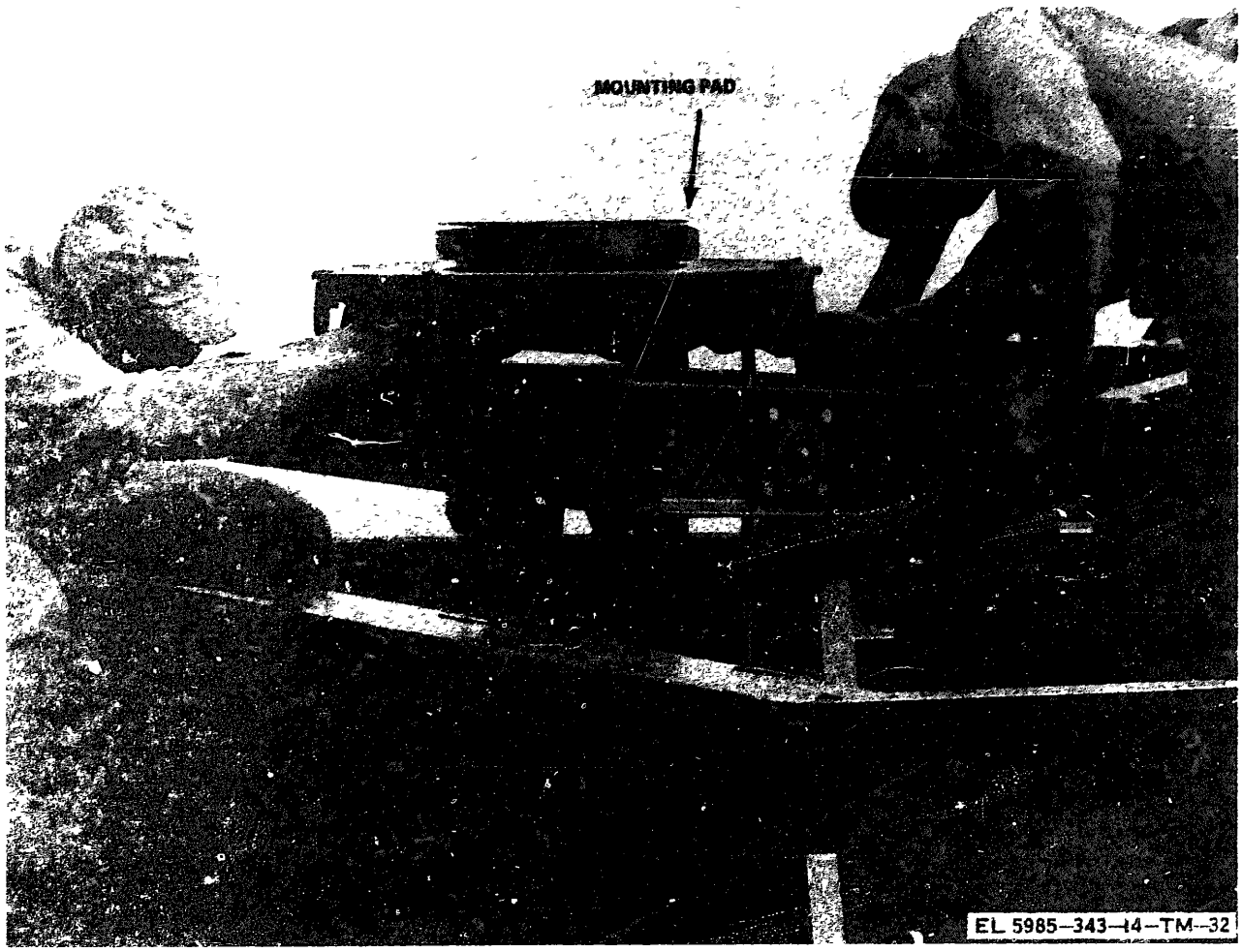

Figure 4-29. Removal of Vertex Plate Holding Pans.

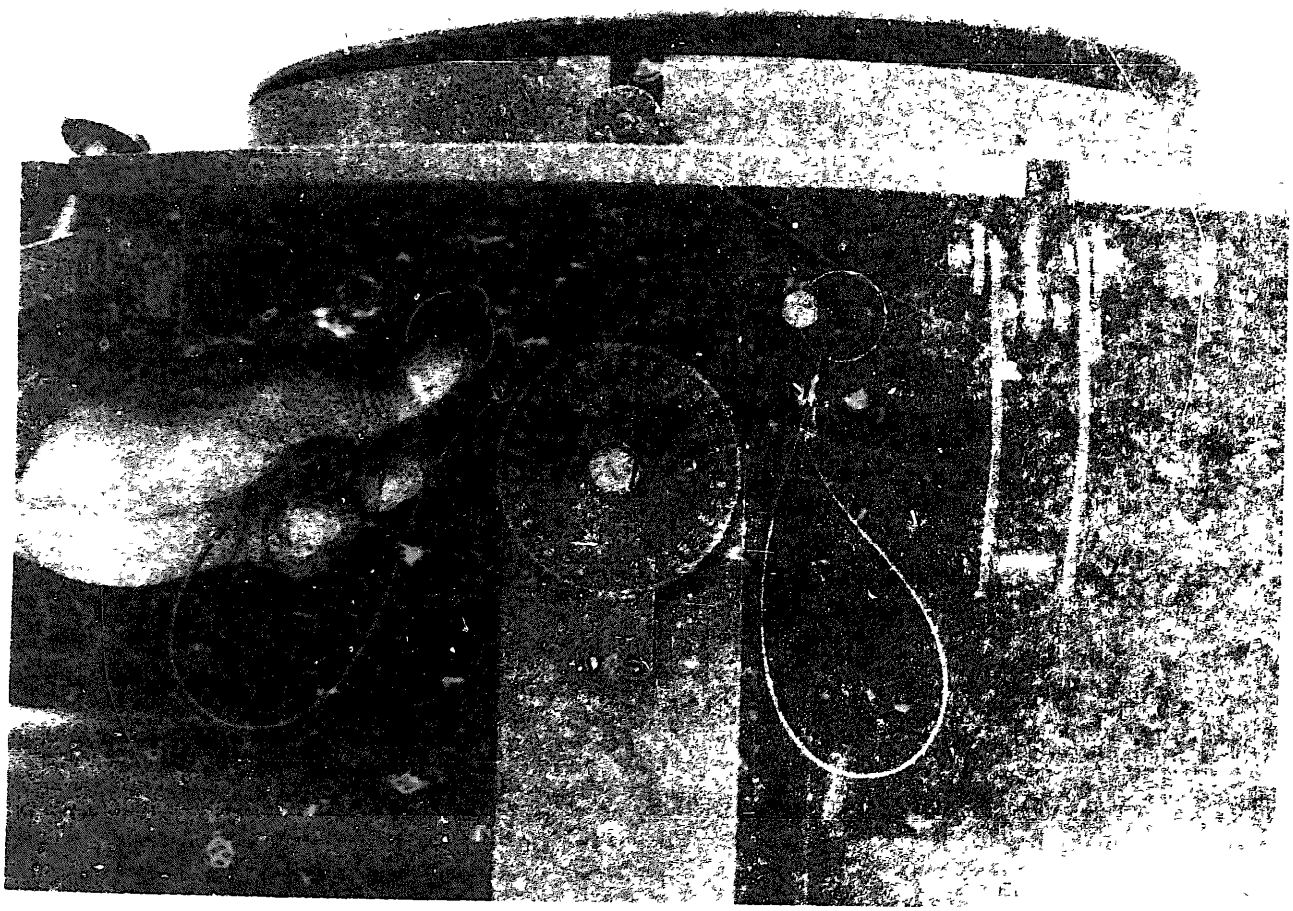

Figure 4-30. Vertex Plate Holding Pin Location.

Figure 4-31. Removal of the Vertex Plate.

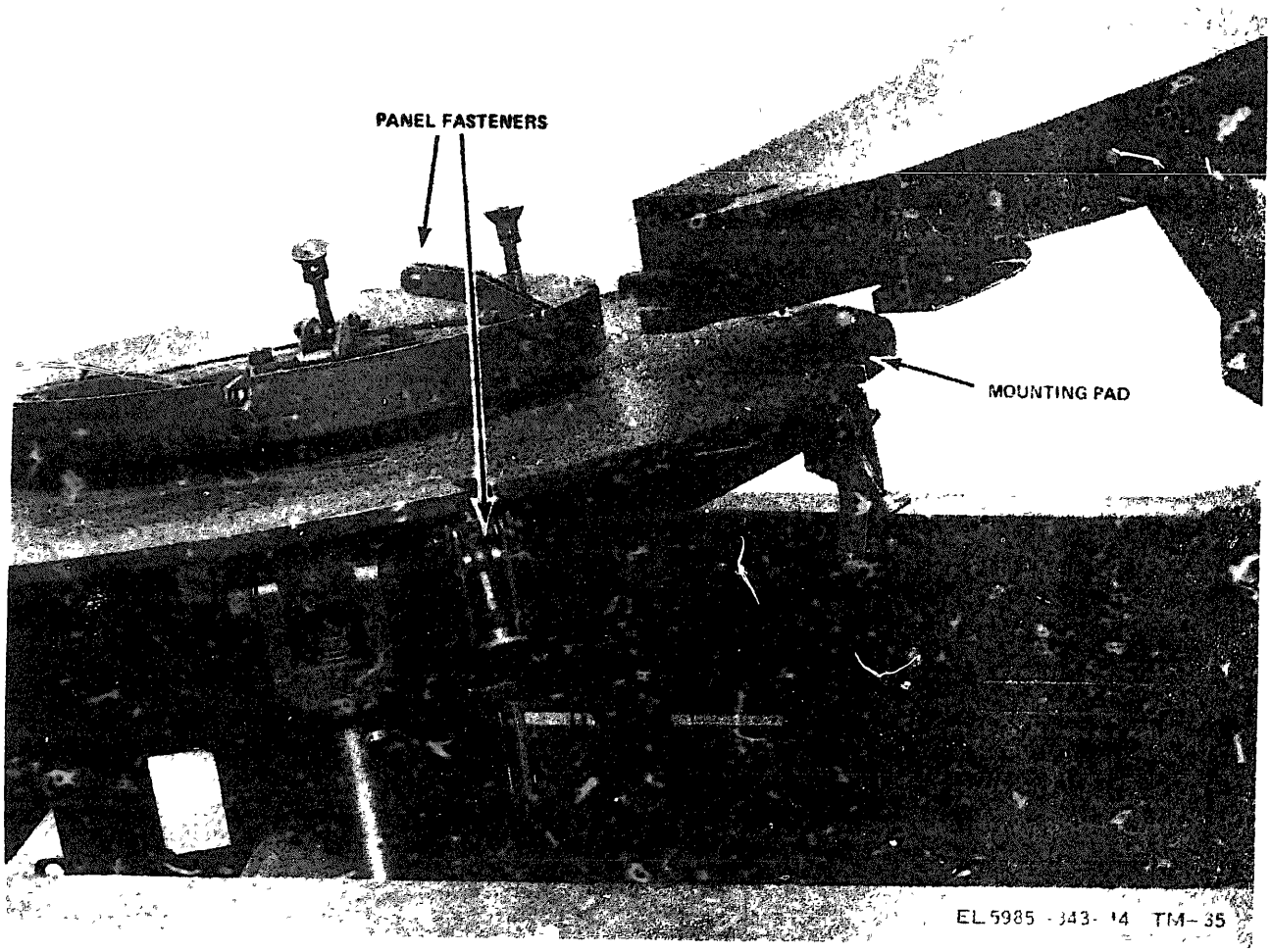

Figure 4-32. Installation of Reflector Panel.

Figure 4-33. Locking of Reflector Panel to the Mounting Pad.

Figure 4-34. Locking of Reflector Panel to the Mounting Pad.

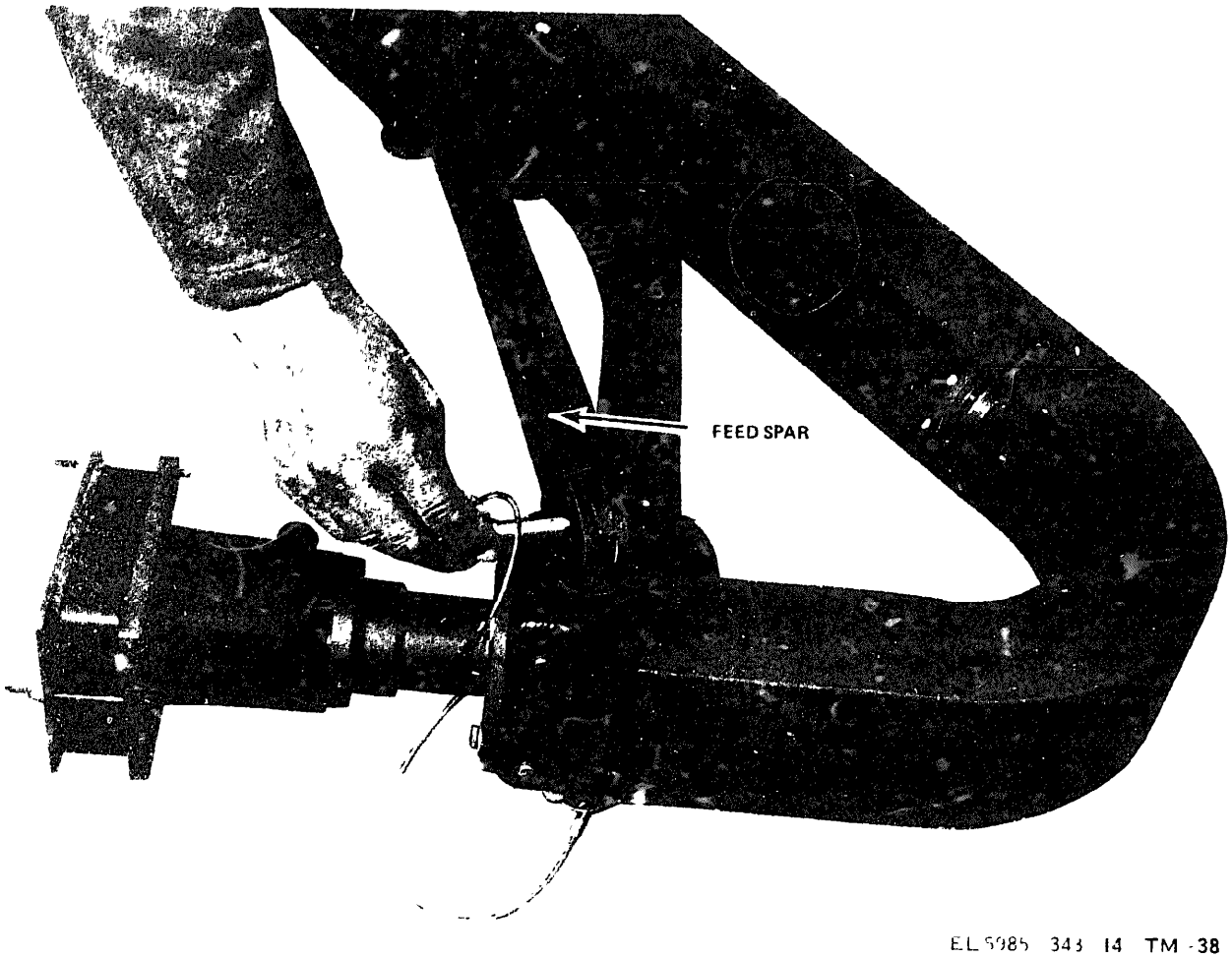

Figure 4-35. Attachment of Feed Support Spars to the Feed Assembly

hands the feed assembly up to him. The waveguide end of the feed should be pointed toward 6 o'clock with the feed aperture facing the ground.

(2) The second man mounts the trailer and positions himself at the 6 o'clock position at the outer edge of the 6 o'clock reflector panel.

(3) Pass the waveguide end of the feed assembly to the man at the 6 o'clock position.

(4) Mate the waveguide clevis with the slip provided on the outer edge of the 6 o'clock reflector panel (Figure 4-36).

CAUTION

During the placement of feed support arms, both men must support the feed assembly to prevent it from being dropped.

(5) The man at the 12 o'clock reflector panel gap will slip the base end of the feed support spars into the fittings provided at the outer edge of the 3 o'clock and 9 o'clock reflector panels. Tighten the wing nut provided (Figure 4-37).

(6) Tighten all fasteners on the feed horn assembly and its supports.

(7) Remove feed horn aperture cover and waveguide covers. Place these in the tool box for storage.

p. Place the vertex plate on the 6 o'clock reflector panel immediately adjacent to the vertex opening (Figure 4-37).

q. Install the 12 o'clock reflector panel in the same manner as described in Step *m*.

r. Tighten all fasteners which attach reflector panels to each other.

s. Install vertex plate from underside of the dish, using the four latches provided (Figure 4-38).

t. Remove the two mast stowage pins on the side of the mast (Figure 4-39).

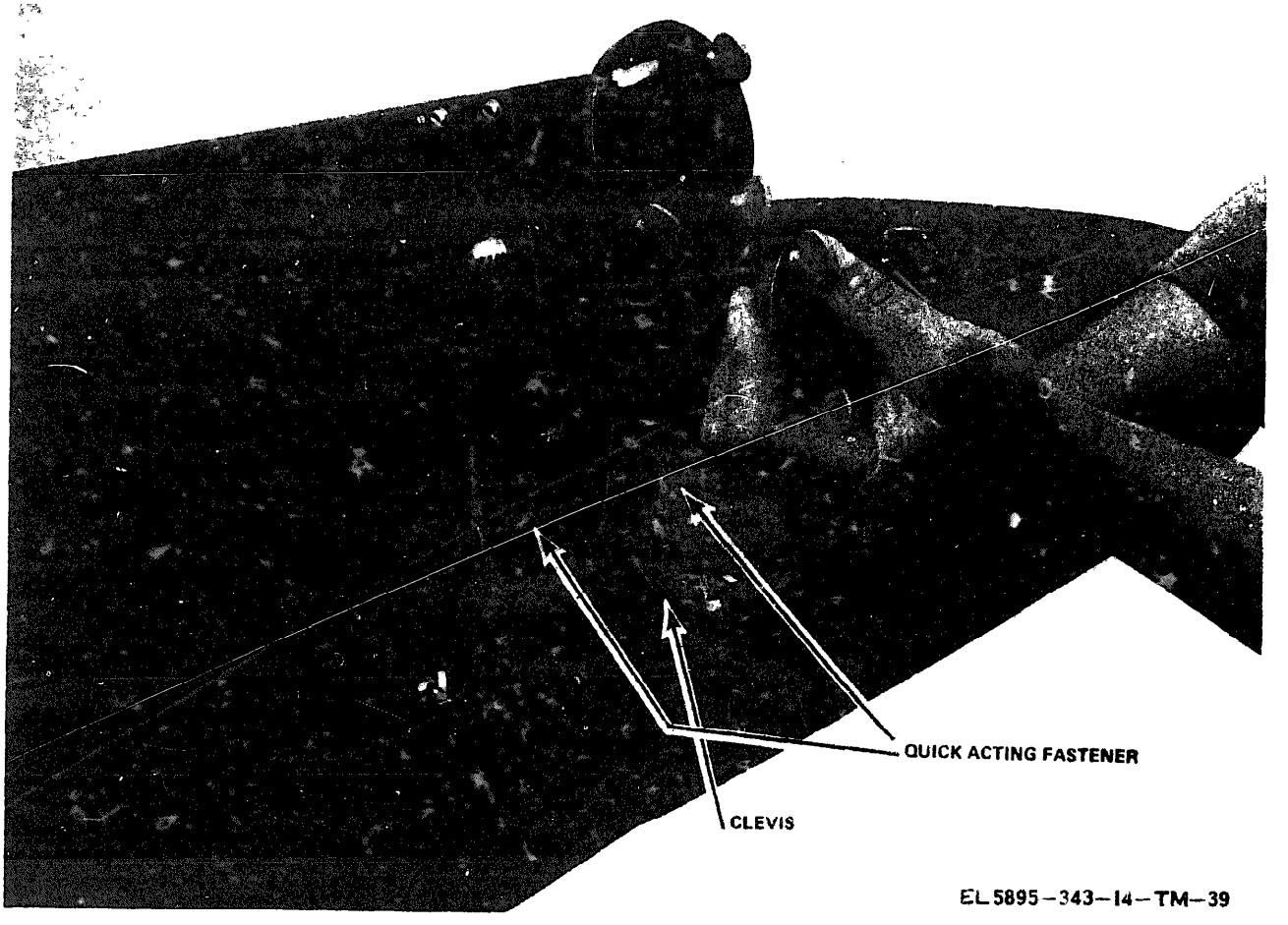

Figure 4-36. Attachment of Feed Assembly to the Reflector Panel

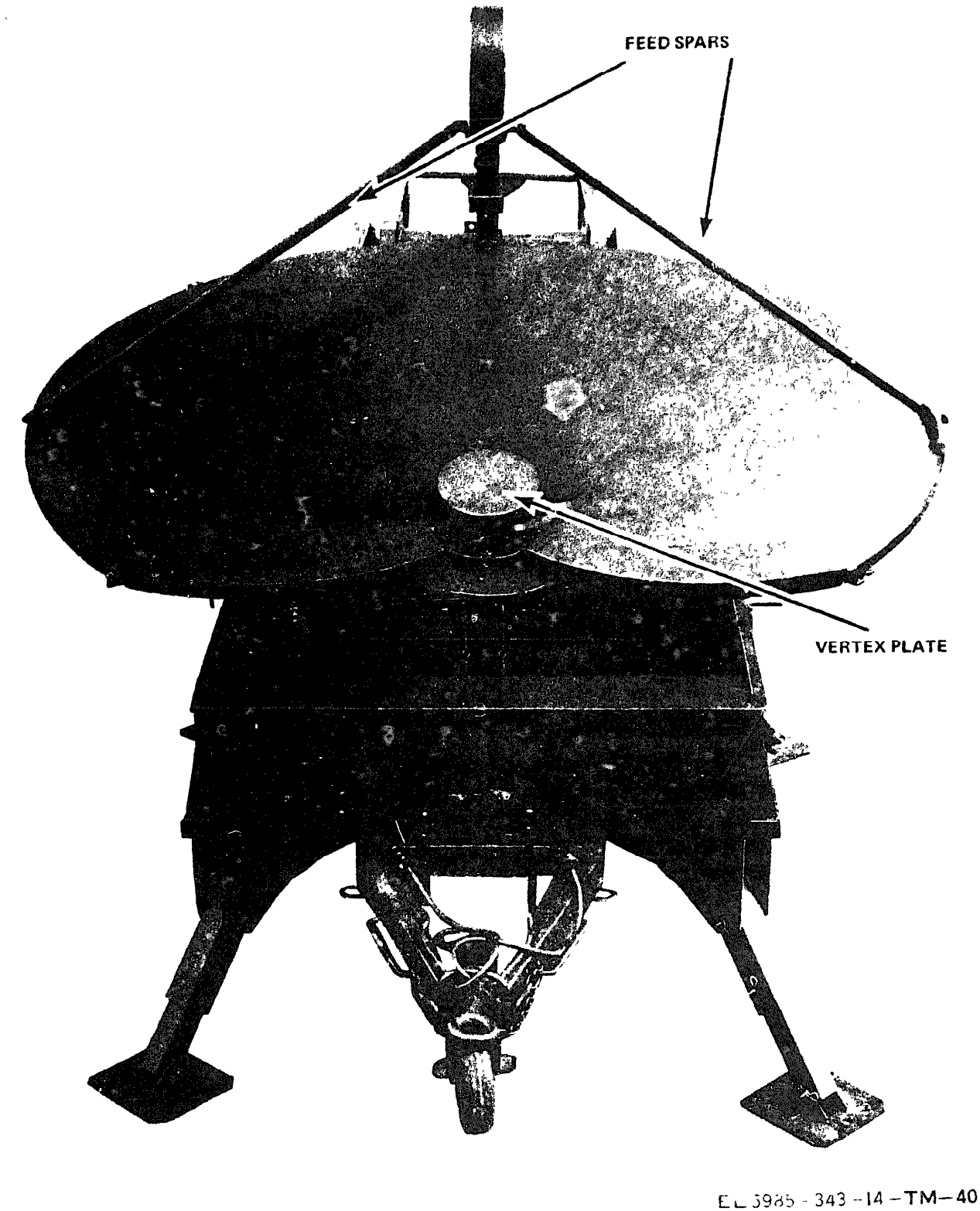

Figure 4-37. Placement of Vertex Plate Prior to Installation

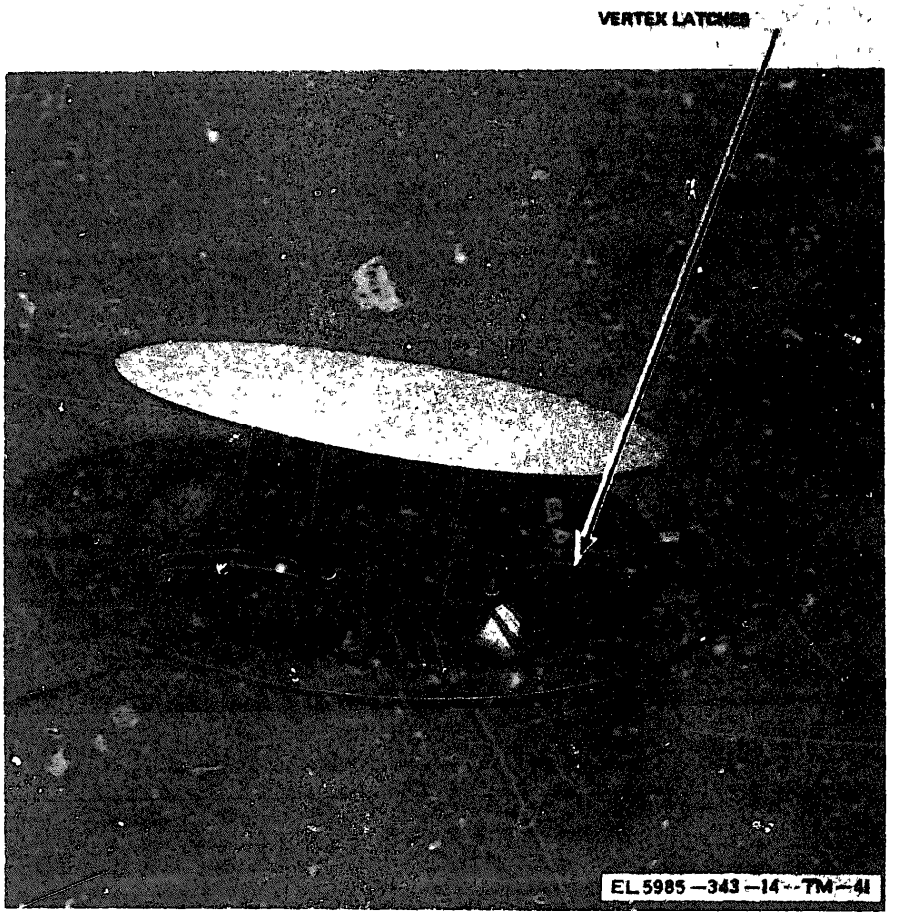

Figure 4-38. *Installation of Vertex Plate.*

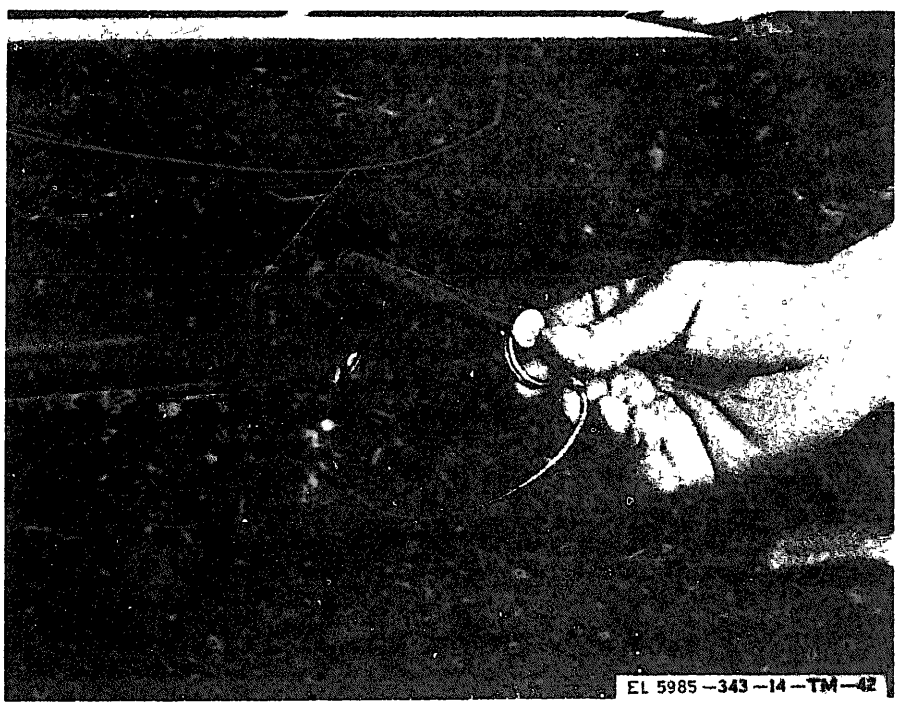

Figure 4-39 ***Removal** of **Mast Stowage Pins.***

Section IV. RAISING THE ANTENNA

4-11. Erection

a. Place the winch brake selector pin in the down position (Figure 4-25)

CAUTION

During the erection operation, be sure the winch cable is wound evenly on the drum without overlapping.

CAUTION

At the start of erection of the mast, carefully observe the manner in which the mast releases from its stowed position. If the mast appears to jump when leaving the stowed position, rather than with an even motion, this indicates the trailer is racked In such event, the mast should be returned to its stowed position and the trailer leveled.

b. By turning the winch crank clockwise, take up the cables and raise the reflector structure and mast to the vertical position.

c. Continue cranking the antenna structure into the vertical position until such time as the winch cable contacts the latches at the base of the mast. Close latches on the winch cable bar, position the swing bolts and fasten loosely (Figure 4-40).

NOTE

If, during the next step, the mast tie bar does not readily slip into position, the winch cable bar latches should be loosened. Using the winch, then adjust the mast until the tie bar is positioned.

d. Install the mast tie bar, spanning the frame and the mast, and pin in two places with the detent pins provided (Figure 4-41).

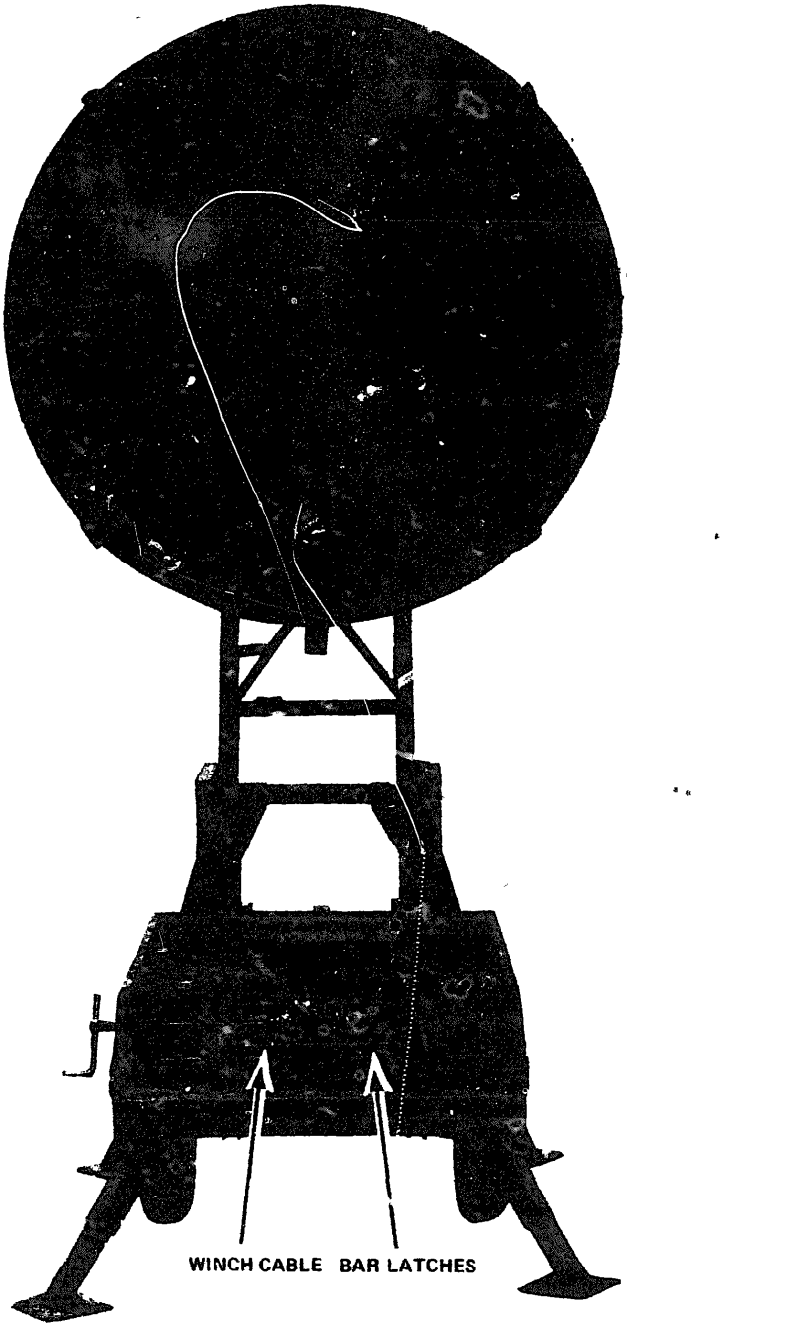

Figure 4-40. Antenna Erected.

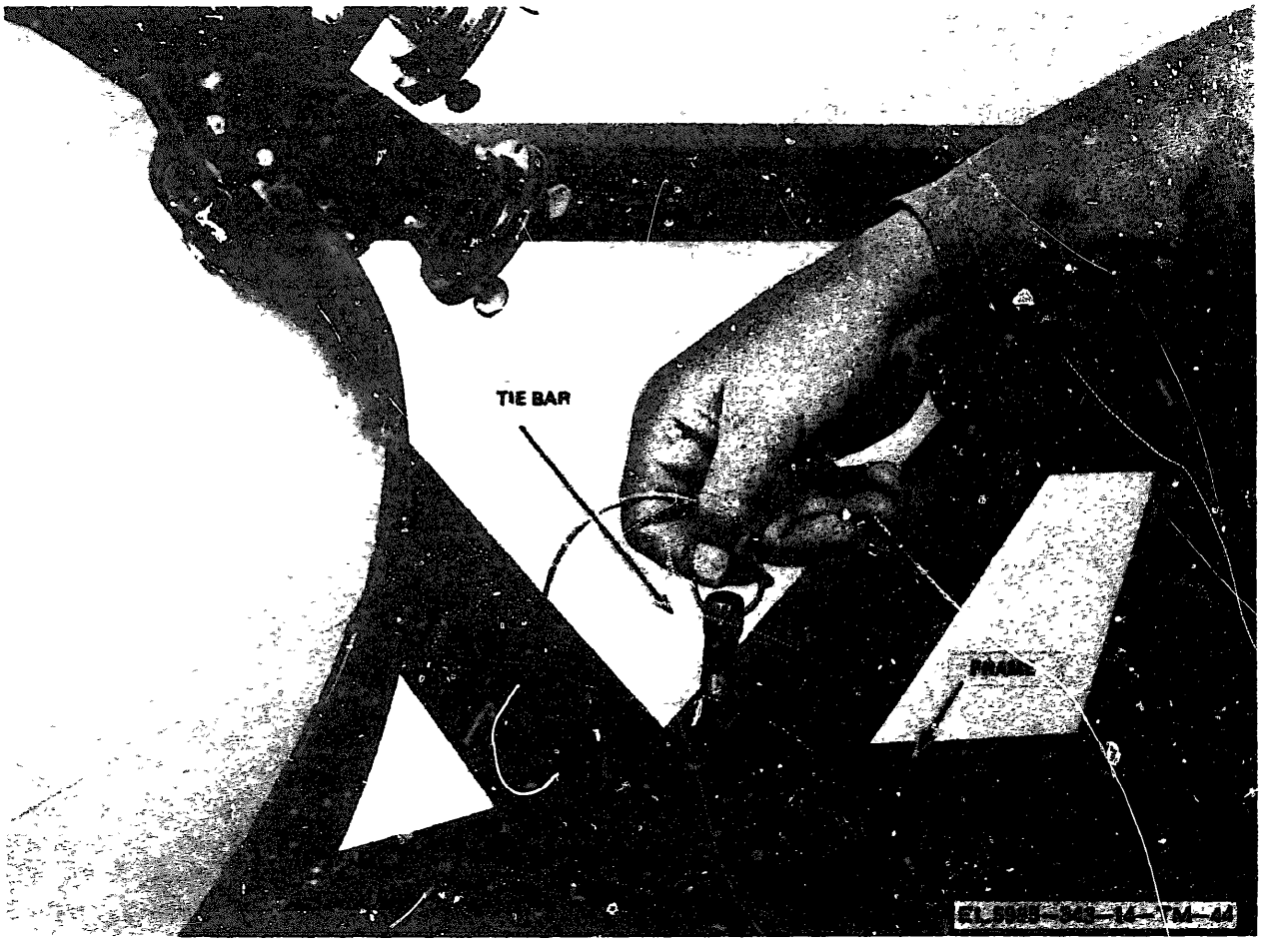

Figure 4-41. Installation of the ***Mast Tie Bar.***

Section V. STABILIZATION

4-12. Anchoring

The following steps need not be performed prior to on-the-air operation if operating winds are under 30 MPH. However, as a safety factor, they should be performed as soon as possible to protect the antenna in case of sudden gusts. At no time should the antenna, in its erected state, be left unattended without guy cables in place and firmly anchored.

a. Attach two guy cables in each of the eyebolts provided on both sides of the mast. Extend the two cables at each side of the mast in opposite directions at approximately 45° angles in both the vertical and horizontal planes. Thus, at each side of the mast, the included angle of the two cables will be 90° (Figure 4-42).

b. Install the ground anchors at the extended reaches of the guy cables and attach to the cables.

c. Tighten the turnbuckle on the cable tensioning devices to remove Jack.

NOTE

Tension all four cables equally. Final tensioning should be performed sequentially and incrementally for all of the cables.

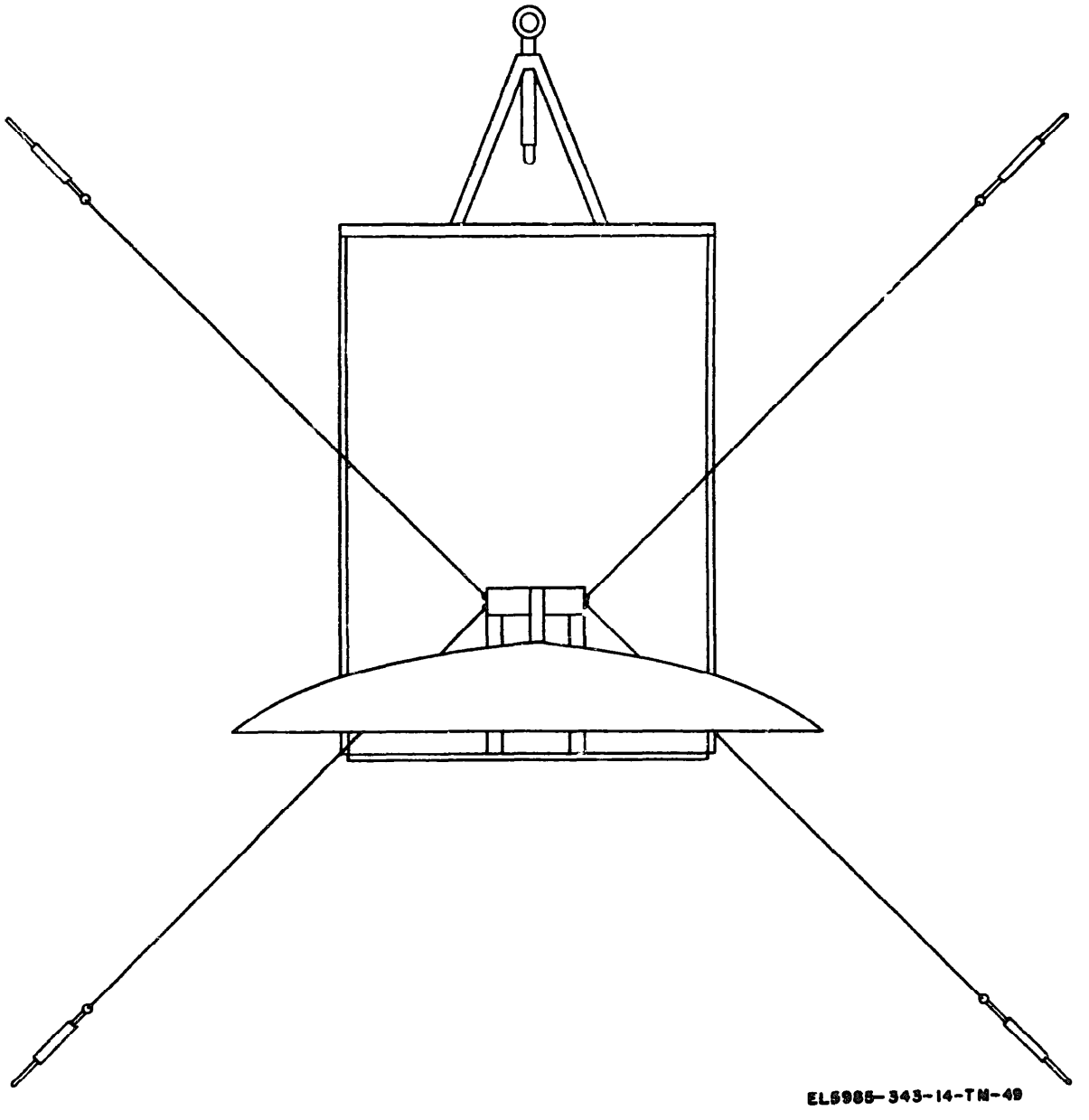

Figure 4-42. Guy Cable Layout.

Section VI. ALIGNMENT

4-13. Establishing Communications

a. The operating procedure commences with the attempt to establish communications contact with the remote site.

b. The time to begin operations, setting sighting direction and alignment of the reflector is established during the crew briefing.

c. In the event that contact is not made when the equipment is activated. the following steps should be followed to establish contact:

(1) All electronic equipment at the site must be operational and properly connected to the system.

(2) The search and adjustment procedure will be conducted.

(3) The site designated as the command site will transmit in the assigned angle and azimuth position. The search site will function as a receive location and will be adjusted until contact is made, If contact is not established after a complete search operation, the command site will be readjusted as assigned and the search procedure will be initiated again.

(4) Beginning with the first assigned time period, the command site will begin communications and the search location will scan, as directed, through the established range and angles until beam intersection is indicated.

(5) If contact is not accomplished, the second time frame search is initiated and the search antenna's horizontal angle is raised one (1) degree. This procedure is repeated until contact *IS* accomplished.

(6) After contact is established, further adjustment of the antenna angle is usually required to increase received power. Azimuth angle positions should now be read from the azimuth indication and transmitted to the remote site.

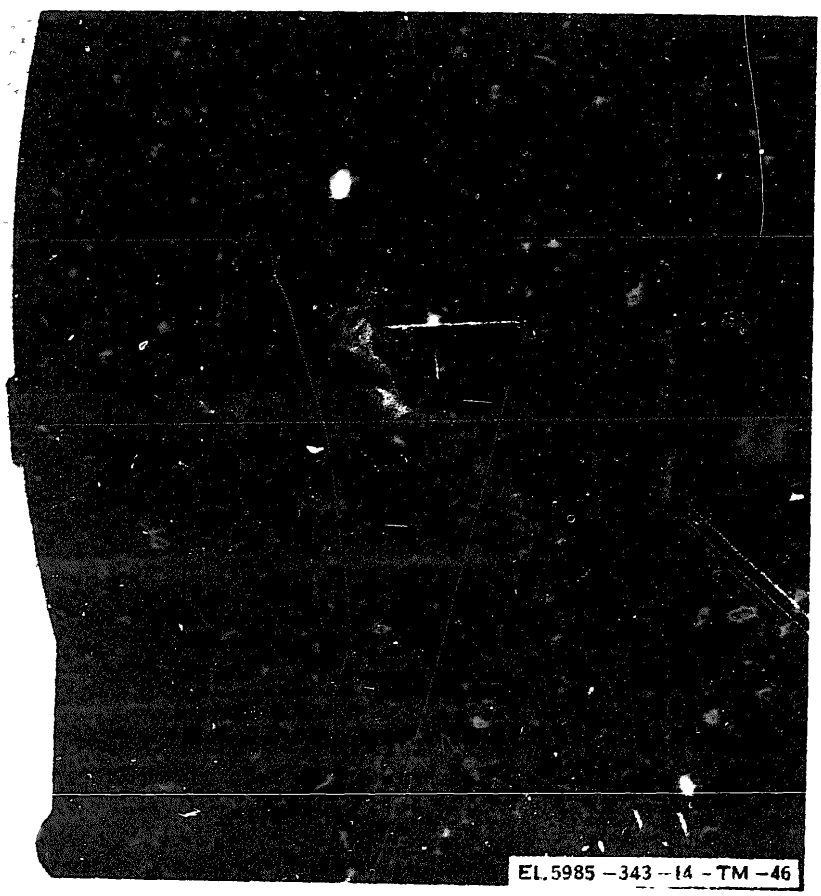

Figure 4-43. Azimuth Alignment.

(7) If contact is lost, each antenna is returned to the last reference position where contact was established. If contact is still not restored, the search antenna will scan the horizontal angle until contact is made.

NOTE

LOSS of contact could also mean failure of electronics equipment.

4-14. Find Adjustments

a. Azimuth Alignment-After the antenna is erected and operating, final azimuth adjustment is made in the following manner:

- Loosen the handle on the sliding rod on one side of azimuth pivot shaft.
- Adjust threaded bar on opposite side of azimuth pivot shaft, observing the azimuth angle scale at the bottom end of the azimuth shaft.
- When desired azimuth angle is obtained, tighten the sliding rod to maintain angle (Figure 4-43),

b. Elevation Alignment-Elevation adjustment is made by means of a jack on the reflector as follows:

- Turn the elevation jack to move the reflector in the proper direction, observing the elevation angle scale provided at the elevation pivot (Figure 4-44).

Figure 4-44. Elevation Alignment.

CHAPTER 5

OPERATOR/CREW AND ORGANIZATIONAL MAINTENANCE PROCEDURES

Section I. OPERATOR/CREW MAINTENANCE

5-1. General

a. This section defines the inspection procedures and service instructions which must be performed by the crew to ensure early detection of defects and initiate effective preventative maintenance.

b. The areas of responsibility for crew maintenance are defined in the maintenance allocation chart found in appendix B.

5-2. Tools and Equipment

Refer to the Organizational Repair Parts and Special Tools List found in appendix C of this manual.

5-3. General Procedures for All Service and Inspections

a. The following general procedures apply to preventative-maintenance services and to all inspections and are just as important as the specific procedures.

b. Inspections to see if items are in good condition, correctly assembled or stored, secure, not excessively worn, not leaking, and adequately lubricated apply to most items in the preventive-maintenance and inspection procedures. Any *or* all of these checks that are pertinent to any item (including supporting, attaching, or connecting members) will be performed automatically, as general procedures, in addition to any specific procedures given.

(1) Inspection for "good condition" is usually an external visual inspection to determine whether the unit is damaged beyond safe or serviceable limits. Good condition is explained further, meaning; not bent or twisted, not chafed or burred, not broken or cracked, not bare or frayed, not dented or collapsed, not torn or cut, not deteriorated.

(2) Inspection of a unit to see that it is correctly assembled or stowed is usually a visual inspection to see if the unit is in its normal position in the material and if all its parts are present and in their correct relative position

(3) Inspection of a unit to determine if it is secure is usually an external visual examination or a check by hand, wrench or pry-bar for looseness. Such an inspection must include any brackets, lockwashers, locknuts, locking wires, or cotter pins as well as any connecting tubes, hoses, or wires.

(4) By "exclusively worn" is meant worn beyond serviceable limits or to a point likely to result in failure if the unit is not replaced before the next scheduled inspection. Excessive wear of mating parts or linkage connections is usually evidenced by too much play (lash or lost motion). It includes illegibility as applied to marking, data, and caution plates, and printed matter.

(5) When the instruction "tighten" appears in the procedure, it means tighten with a wrench, even if the items appear to be secure.

(6) Such expressions as "adjust if necessary" or "replace if necessary" *are* not used in the specific procedures It is understood that whenever inspection reveals the need of adjustment, repair or replacement, the necessary action will be taken.

c. Any special cleaning instructions required for mechanisms or parts are contained in the pertinent section. General Cleaning instructions are as follows:

(1) Use drycleaning solvent or mineral spirits paint thinner to clean or wash grease or oil from all metal parts that do not require lubrication.

(2) A solution of one part grease-cleaning compound to four parts of drycleaning solvent or mineral spirits paint thinner may be used for dissolving grease and oil from chassis and other parts. After cleaning, use cold water to rinse off any solution which remains.

(3) After the parts are cleaned, rinse and dry thoroughly. Apply a light grade of oil to all polished metal surfaces (other than optical instruments) to prevent rusting.

(4) The use of diesel fuel oil, gasoline, or

benzene (bensol) for cleaning is prohibited.

5-4. Preventive Maintenance Checks and Services

To insure that Antenna AS-2823/TRC is always ready for operation, it must be inspected systematically so that defects may be discovered and corrected before they result in serious damage of failure. The necessary preventive maintenance checks and services to be performed are listed and described in table 5-1. The item numbers indicate the sequence of minimum inspection requirements. Defects discovered during operation of the **unit** will be noted for future correction to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noted during operation which would damage the equipment. Record all deficiencies together with the corrective action taken on DA form 2404.

5-5. Physical Inspection

a. A daily physical inspection of the equipment will be performed in accordance with the steps outlined in table 5-1. Strict adherence to this inspection procedure will ensure the discovery of defects before they result in serious damage or failure.

b. Any defects noted during this inspection must be reported to the designated individual authority for service or repair. (See the Maintenance Allocation Chart-Appendix B of this manual and Appendix I of TM 9-2330-213-14 for service and repair responsibility level).

Table 5-1. Physical Inspection

Part Identification	Inspect For	Remarks	Antenna Erected	Config Trailer
ANTENNA, AS2823-TRC				
Structural Members	Cracks and Deformed	Replace damaged parts and straighten bent parts	X	X
	Broken Welds	Weld or replace necessary parts		
	Tears, missing or broken parts	Replace and repair	X	
Guy Wires and Cables	Check end fittings, anchors and turnbuckles	Replace as necessary	X	
	Check the erection cable for frayed spots	Replace as necessary	X	
Data Nameplates	Missing plates	Install needed plates		X
	Illegible or damaged plates	Replace plates as necessary		
Nuts, Screws, etc.	Worn, stripped or battered threads Other damage or deformed parts	Replace	X	X
Reflector	Torn surface or excessive corrosion	Replace panels as required	X	X
Electrical Wiring	Broken leads, frayed or damaged insulation	Repair or replace as necessary wiring	X	X
	Damaged Connectors			
FEED HORN and WAVE-GUIDE ASSEMBLY				
Feed and Waveguide	Cracks, bent members and a break in the feed radome	Replace	X	

NOTE

Preventive-maintenance check and service instructions for the trailer are found in TM 9-2330-213-14.

5-6. Lubrication Instructions

a. For lubrication under usual conditions, refer to TM 9-2330-213-14.

b. For lubrication instructions in weather below 0°F, refer to TM 9-2330-213-14

c. After fording operations, in water U-inches or more in depth, perform a complete lubrication

d. After operating under dusty or sandy conditions, clean or inspect all lubrication points and check for fouled lubricants. Lubricate as necessary.

e. Lubrication is only performed on the trailer configuration. No lubrication is required while the antenna IS in the erected configuration.

5-7. Painting and Stenciling

a. General instructions are included in TM 9-2123, Painting Instructions for Field Use.

NOTE

Spot painting and marking (stenciling) or tactical vehicles will be performed under the control of organizational maintenance personnel. Drivers are not authorized to perform this function except in cases where the driver is also a mechanic or mechanic's helper. Painting of a complete tactical vehicle can be authorized and performed only by direct support maintenance or higher support elements.

5-8. Troubleshooting During Operation

a.* These checks consist of detecting unsatisfactory performance during operation. While in motion, the driver should be alert for any unusual noises, steering irregularities, or other indications of malfunction.

b. The steps outlined in chapter 3, of TM 9-2330-213 define malfunctions and causes which may be detected during transportation of the trailer.

c. Any defects noted during this inspection must be reported to the designated authority for service or repair

5-9. **Cleaning**

When the antenna is used in the mud, or heavy dust, it should be washed periodically to prevent rust and residue build-up on the parts and components.

5-10. Trail Lamp Repair and Replacement

Replace broken lens by removing attaching hardware. Be sure that the correct size bulbs are inserted in their respective places. For 24-volt systems, use MS35478-1683, two places and MS-15770-1251, five places. For 12-volt systems use MS35478-1141, two places and MS15570-89, five places.

Table 5-2. Troubleshooting

Part Identification and Malfunction	*Possible Cause*	*Corrective Action Required*
BRAKES		
Brakes Grab	**Grease or oil on brake linings and drums**	**Clean drums, reline brakes.**
	Brake drums out of round	**Replace brake drums.**
	Brake linkage binding	**Free-up linkage, replace damaged parts and lubricate.**
	Defective wheel cylinders and master cylinder	**Replace defective parts.**
WHEELS		
Wheel Hubs	**Cracks and damage work or defective bearings. Torn or deteriorated seals**	**Refer to appropriate authority for: Replace hubs.**
Wheel Bearing Overheats	**Wheel bearing too tight**	**Adjust.**
	Excessive amount of lubricant	**Remove excessive amount.**
	Lack of Lubricant	**Lubricate.**
Wheel Drags	**Wheel bearing too tight**	**Adjust.**
	Dirt lodged between brake drum and linings	**Clean brakes.**
FEEDHORN and WAVEGUIDE		
Inoperative Heaters	**External electrical supply not connected**	**Connect electrical supply.**
	Heater is disconnected	**Plug in heater more securely or refer to appropriate authority for:**
	Heater is burned out	**Replace heater.**
	Defective relay	**Replace relay.**
	Defective switch	**Replace switch.**
	Defective cable	**Replace cable.**
Air Pressure will not rise to Normal Operating	**Arcing**	**Check for damage or obstruction.**
	Air leaks	**Check seals and inspect for cracked welds.**
	Air leakage in lines, fittings and air-operated components	**Replace defective parts.**
	Drain cock on air reservoir in open position	**Close drain cock.**

Part Identification and Malfunction	*Possible Cows*	Corrective Action Required
	Shut-off valves in air system in open	Close **shut-off valves** position
Air Pressure will not Rise to normal operating	**Inadequate external air supply**	**Provide an adequate *external* air supply.**

Section II. ORGANIZATIONAL MAINTENANCE

5-11. General

a. This section details the maintenance requirements and procedures for the organization level maintenance. The following paragraphs describe inspections, corrections or adjustments which may be necessary to maintain the antenna group.

b. Organizational maintenance will be limited to cleaning the antenna reflector and structural members.

5-12. Cleaning

Periodically, depending upon the amount and type of service, the antenna and trailer should be thoroughly steam-cleaned. After the antenna and trailer have been steam-cleaned, the condition of the painted surface must be checked and repainted. Also, the trailer must be thoroughly and completely lubricated. Apply a lubricant to the winch assembly.

5-13. Structural Members

All damaged, weight-bearing structural members **on** the antenna must be replaced by new parts.

CHAPTER 6

EQUIPMENT FUNCTION

Section I. GENERAL

6-1. Introduction

The' information contained in the chapter describes the function of the antenna and the feed horn de-icing circuit.

6-2. Overall Functional Operation

The AS-2823/TRC provides a means to radiate and receive microwave energy (continuous duplex) in the ***4.4*** to ***5.0*** MHz frequency range. Due to the height of the antenna, the antenna is used primarily with tropospheric scatter equipments.

Section II. DEICING SYSTEM

6-3. General Description

a. The antenna is equipped with a thermostatically controlled heating system to prevent damaging ice from forming on the feed horn radome.

b. The thermostatically controlled electric heater is capable of maintaining the feed radome surface above 40 degrees Fahrenheit when the ambient temperature is above 20 degrees Fahrenheit and the wind velocity is less than 30 knots per hour.

6-4. Functional Description

The feed de-icing system contains a one-hundred and sixty-five watt electric heater which operates from the available power source. The heater is thermostatically controlled (Figure 6-1). Closing the switch completes the heater control circuit when the temperature at the feed radome drops to 37 degrees Fahrenheit. Then the thermostat closes and applies one-hundred and fifteen volts to the heater. When the feed radome warms to 40 degrees Fahrenheit, the thermostat opens and the relay disconnects thus removing the heater from the circuit.

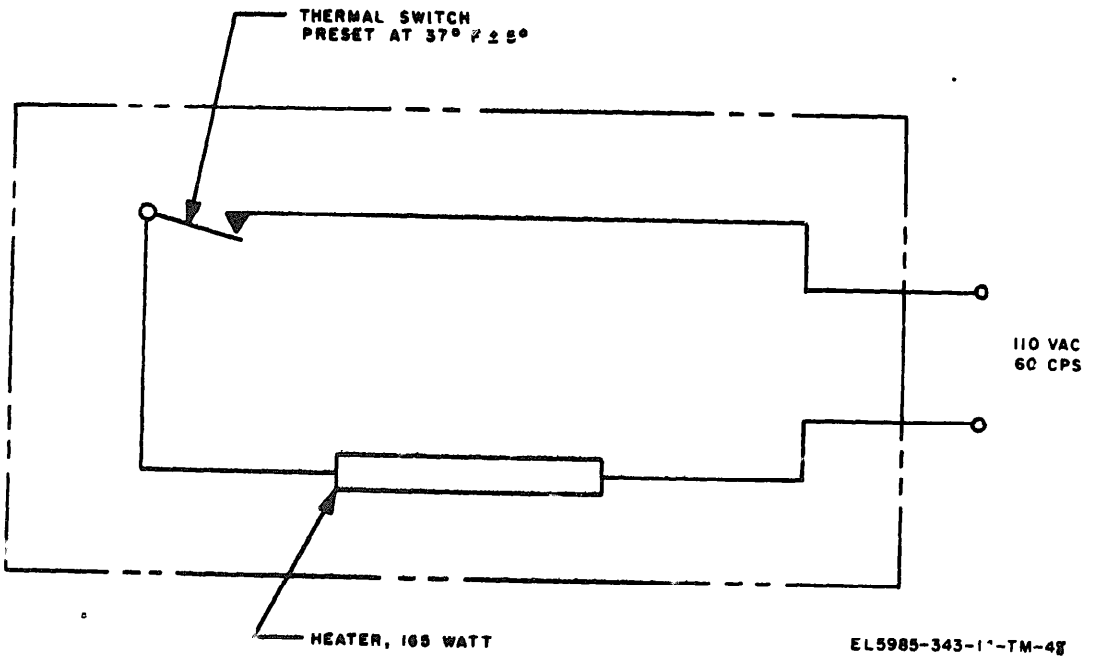

Figure 6-1. Feed Horn Heater Schematic.

CHAPTER 7

DIRECT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS

Section I. GENERAL

7-1. General

Tools and equipment and maintenance parts over and above those available to the using organization are supplied to direct and general support maintenance units for maintaining and repairing the material. All major repair operations performed on the antenna will be performed at the direct and genera1 support level. Direct Support and General Support maintenance for the antenna is limited to feed horn repair and replacement. Direct and General support repair parts are listed in Appendix E.

NOTE

For all maintenance procedures on the trailer, see TM 9-2330-213-14.

Section II. FEED SYSTEM

7-2. Feed Horn and Waveguide Repair and Replacement

a. ***Waveguide section.*** Waveguide sections are connected together with four screws at each section, To replace a damaged section, simply remove the four screws and install the rear section in place (figure 1-2).

b. Connector cable assembly. The connector cable to the feed assembly mates with the waveguide at the base of the assembly with a quick-release connector. If the connector cable is damaged, replace with a new cable.

NOTE

When replacement of waveguide bolts is necessary, replace only with 300 series stainless-steel bolts. The 3/4-inch diameter assembly bolts are 400 series stainleas-steel heat-treated to 140,000 to 150,000 psi yield strength, Equivalent strength replacements are required.

c. Feed horn heater element and thermostatic switch. If the heater element contained in the face of the feed horn (Figure 2-1) fails, replace the heater element and switch as follows:

(1) Remove the four screws holding the feed horn radome in place.

(2) The heater element is on the right inside wall of the horn. This element is held in place by means of a spring clip and can be removed by simply pulling the element from the clip.

(3) Unsolder the two wires from either end of the element.

(4) Remove the thermostatic switch from the top inside of the feed horn. This switch is held in place with set screws at either end.

(5) Replace the switch and solder the wire from the switch and the wire from the connector to opposite ends of the new heater element, and replace the element in the spring clip.

(6) Replace the radome on the feed horn.

d. Feed horn wiring. Figure 6-1 illustrates the schematic diagram of the de-icing circuit in the feed horn assembly. Condition of the components of the junction box and heater assemblies should be checked periodically for deterioration. Check wiring connections for tightness and for frayed or damaged insulation.

e. Pressurization Inspection. When an antenna malfunction occurs, a physical inspection should be made of the entire antenna. One indication of proper pressurization of the feed system is a slight outward bulge of the feed horn window shown in figure 2-1. Operation of the pressurization system can be checked by observing the air pressure gauge on the pressurizer/dehydrator.

CHAPTER 8

PREPARATION OF EQUIPMENT FOR SHIPMENT

Section I. GENERAL

8-1. Scope

This chapter contains the procedures for disassembling Antenna AS-2823/TRC from the operational configuration and placing the Antenna in the stowed configuration ready for transporting.

NOTE

Take every precaution against losing small parts when repacking for reshipment.

WARNING

Before beginning disassembly, disconnect power cable and deicing circuit.

WARNING

Because of weight and structural shape, certain components require more than one crew member for handling. Steps where more than one crew member is involved will be so indicated.

Section II. PREPARATION FOR LOWERING THE ANTENNA

8-2. Preparation for Dismantling

a. **Relieve the tension from** the guy cables by successively loosening each turnbuckle starting at the right side of the antenna and proceeding clockwise. Remove the cables from the attaching eyebolts and remove the ground anchors.

WARNING

The dismantling procedures which follow must be performed in the sequence given to prevent damage to the equipment and to insure the safety of the crew.

b. Carefully police the area where the antenna will be lowered and dismantle to ensure that no foreign objects are in the area that could damage the equipment.

Section III. LOWERING THE ANTENNA

8-3. Initial Procedures

a.' After removing the cables and guys from the antenna, remove the mast tie bar (Figure 4-41).

b. Loosen the swing bolts holding the winch cable bar.

8-4. Lowering Procedures

a. **Place the winch brake** selector pin in the **down position (Figure 4–25).**

b. **Begi**n to crank the antenna structure in the reverse (counterclockwise) direction, lowering the dish toward the trailer.

c. Continue to crank until the dish support structure comes to rest on it's trailer mounts.

CAUTION

During the winching operation, be sure the cable is wound evenly on the drum without overlapping.

d. Replace the two mast stowage pins (detent pins on the sides) (Figure 4-39).

Section IV. DISASSEMBLY OF THE ANTENNA

8-5. Removal and Disassembly of the Vertex Plate and Feed System

CAUTION

Use extreme care **in handling the waveguide feed horn assembly. Do not drop, bump or scuff.**

CAUTION

During the removal of feed support spars, both men must support the feed assembly to prevent its being dropped.

a. Removal of the feed and support assembly is accomplished in the following manner:

(1) Remove the vertex plate from the underside of the dish, by removing the four, holding, detent pins (Figure 4-38).

(2) Remove the 12 o'clock reflector panel from the antenna by releasing the quick-release fasteners which are holding this reflector panel to the adjoining reflector panels and the mounting pad (Figures 4--32, 4-33 and 4-34).

(3) Place the vertex plate on the 6 o'clock reflector panel immediately adjacent to the vertex opening (Figure 4-37) for safety and ease of removal.

NOTE

Place the vertex plate where it will not be damaged during subsequent operations.

(4) Place one man on the trailer in the 12 o'clock reflector panel gap.

(5) The second man mounts the trailer and positions himself at the 6 o'clock position at the outer edge of the 6 o'clock reflector panel.

NOTE

Replace the feed horn aperture cover and waveguide covers.

(6) The man at the 12 o'clock reflector panel gap will loosen wing nuts at the base end of the feed support spars and the fittings provided at the outer edge of the 3 o'clock and 9 o'clock reflector panels (Figure 4-36).

(7) The man at the 6 o'clock position will remove the quick-release connector holding the waveguide to the 6 o'clock reflector panel (Figure ***4-36).***

(8) Pass the feed horn assembly to the man at the 12 o'clock position and remove the entire assembly from the trailer.

NOTE

The following step is performed on the ground.

(9) Remove the feed support spars from the mounting tabs provided on the feed horn mounting flange (Figure 4-35) by releasing the detent pins.

8-6. Disassembly of the Reflector

a. Remove the 6 o'clock reflector panel by removing the quick-acting fasteners on the reflector panel radius, and the mounting pad (Figure 4-***33).***

b. Remove the 3 o'clock and 9 o'clock reflector panels in the same manner as described in Step 1.

8-7. Disassembly of the Antenna Support Structure

a. Remove the pin holding the swing arms to the upper mast assembly (Figure 4-28).

b. Remove the cotter pins holding the cable tie bar to the swing arms (Figure 4-27)

c. Lower each swing arm separately until it can be returned to the stowed position.

CAUTION

Insure that the swing bolts for the winch cable bar latches are in the down position.

d. Remove the winch crank assembly by releasing the keeper (Figure ***4-24)***

e. Raise the trailer tailgate to the horizontal position and chain in place.

8-8. Assembly to Trailer Configuration

a. Return the waveguide feed assembly to the trailer (Figure 4-18) and secure as follows:

(1) Secure the straps holding the waveguide (Figure 4-17).

(2) Replace the detent pin holding the feed section to the reflector tower (Figure 4-16).

b. Using the hydraulic jack, return the trailer to its wheels as follows:

(1) Attach the jack to the rear of the trailer, directly centered, and raise the trailer off of the outriggers (Figure 4-12).

(2) Remove the foot pads from the rear outriggers (Figure 4-11).

(3) Remove the outrigger holding pins and return the outriggers to the stowed position (Figures 4-8 and 4-9).

c. Repeat the steps in Procedure ***b*** for the front outriggers and lower the jack.

d. Return all items to the tool box on the front of the trailer (Figure 4-6).

CAUTION

Handle the reflector panels carefully to prevent denting or bending.

e. Replace the reflector panels on the trailer as follows:

(1) Replace the reflector panels in the appropriate positions on the trailer (Figure 4-5).

(2) Attach the holding bracket at the base of each reflector panel.

(3) Replace the antenna panel holding device using the four detent pins which secure the holding device to the reflector panels (Figure ***4-4).***

f. Using two men on each rail, lift the two side rails onto the trailer. These rails are secured with mating holding wells. There is no hardware securing these rails (Figure 4-3).

g. Replace the tarpaulin support braces on the trailer assembly as follows (Figure 4-3).

(1) One man should stand on each side flange of the trailer adjacent to where the brace mates with the side rails.

(2) Working in unison (one man on each side), the braces are lifted onto the trailer and set in the holding wells (Figure 4-3). Replacement of these braced does not require the replacement of any hardware.

h. Replace the panel tie-down straps (4) which, secure the panel quadrants to the support side rails on the trailer. These straps are tightened by engaging the grip clamp (Figure 4-2); pull the straps through the side rails to ensure that the reflector panels are secure.

i. Replace the tarpaulin on the trailer. Ensure that all of the holding ropes (11 places) (Figure l-l) are securely tightened.

j. Release the trailer brakes and remove front wheel chocks.

k. Release the front wheel lock and rotate the wheel (Figure 3-1) to the raised position. Lock the front wheel in the up position and the trailer is ready for over-the-road operation.

CHAPTER 9

DESTRUCTION OF ARMY MATERIEL

Section I. GENERAL

9-1. Introduction

a. Destruction of the Antenna AS-2823/TRC when subject to capture or abandonment in the combat zone, will be undertaken by the using army only, when in the judgment of the unit commander, such action is necessary in accordance with organization orders.

b. If the equipment is in storage or in the hands of field or ordnance maintenance personnel, destruction will be in accordance with the procedure outlined in section II.

c. The information which follows is for guidance only. Certain portions of the procedure require the use of explosives and incendiary *gre-* nades which normally may not be authorized items of issue to the using organization. The issue of these materials and the conditions under which destruction will normally be effected are command decisions in each case, according to the tactical situation. Of the several means of destruction, those most generally applicable are:

Mechanical : Requires axe, mattock, sledge or similar **tools.**
Burning : Requires gasoline, oil incendiary grenades or other flammables.
Demolition : Requires applicable explosives.
Gunfire : Includes artillery, automatic weapons, rockets and small arms.
Disposal : Requires burying, sinking or scattering parts as to preclude recovery of essential parts.

d. In general, destruction of essential parts followed by burning will usually be sufficient to render the trailer chassis useless. However, the method of destruction will require imagination, resourcefulness, and care related to the safety of the participating personnel.

NOTE

Time is critical. If destruction is required, the material must be sufficiently damaged so that it cannot be restored to usable condition or cannibalized of parts.

Section II. DESTRUCTION PLAN

9-2. General

a. Adequate destruction requires that all parts essential to the operation of the equipment: including spare parts, be destroyed or damaged beyond repair. However, when lack of time and personnel prevent destruction of all parts, priority must be directed to the parts which are most difficult to replace. Equally important the same essential parts must be destroyed on all similar equipment to prevent the cannibalization of one complete unit.

b. If the destruction plan is not provided by higher authority, the using organization should formulate one during the initial crew briefing.

9-3. Destruction Plan

a. Personnel should be assigned specific tasks, but all personnel should be familiar with all aspects of the complete destruction plan.

b. The plan must be feasible in relation to available material and personnel. The plan must establish priorities for destruction and several different procedures based on time available for destruction. These procedures should range from quick-react to several hours.

c. The selection of a location for destruction must also be established. Considerations for establishing this location are:

(1) Obstruction to enemy movement.
(2) Safety of friendly personnel in the area.

9-4. Method of Destruction

a. The following methods of destruction are the most effective in field situations. Time availability and location will be the major determining factor for the method used.

b. Demolition.

(1) Planning for simultaneous detonation, prepare three 2 pound demolition charges, using two 1 pound TNT blocks or equivalent per charge

together with the necessary detonating cord to make up each charge. Place two charges on the axle, the **first** charge as close as possible to the right wheel and the second charge as close' as possible to the left wheel of the trailer. Place the third charge on the V-frame adjacent to the lunette Connect the three charges for simultaneous detonation with detonating cord.

(2) Provide for dual priming to minimize the possibility of a misfire

(3) Destroy the tires by placing an incendiary grenade under each tire. Fire the grenades. The detonation of the demolition charges should be delayed until the incendiary fires are well started. This will prevent the in-es from being extinguished by the blash when the charges are detonated.

(4) Detonate the charges. For complete details on the use of demolition materials and methods of priming and detonating demolition charges, refer to FM 5-25. Training and careful planning are essential.

WARNING

Cover must be taken without delay, since an early explosion of the charges may be caused by the incendiary fires.

c. Burning.

(1) Using an axe, pick mattock, sledge, or other heavy implement, smash all vital elements such as lights, reflectors, plug and cable assemblies, landing gear, handbrake assembly, body and equipment.

(2) Slash tires.

WARNING

If tires are inflated, exercise care to prevent injury should tires blow out while being slashed. When practicable, it is usually preferable to deflate tires before slashing.

(3) Place combustible on and about the trailer. Pour gasoline or oil over the combustible and the trailer chassis; ignite by means of an incendiary grenade fired from a safe distance, a combustible train of suitable length, or other appropriate means. Take cover immediately. A hot fire is required to render the material useless.

WARNING

Cover must be taken without delay since an early explosion may be caused by the fire. When igniting gasoline, due consideration should be given to the highly flammable nature of gasoline and its vapor. Carelessness in its use may result in painful burns. The danger zone is approximately 500 yards. Elapsed time: about 6 minutes.

d. ***Gunfire.***

(1) Ordinarily, destruction of the tires is affected incidental to, and in conjunction with, the destruction of the trailer chassis by gunfire.

(2) Destroy the trailer chassis by gunfire, using artillery, machine guns, rifles, using rifle grenades, or launchers using antitank rockets. Fire on the trailer chassis, aiming at the wheels, V-frame, and chassis. Although one well-placed direct hit may render the trailer chassis temporarily useless, several hits are usually required for complete destruction.

WARNING

Firing artillery at ranges of 500 yards or less should be from cover. Firing rifle grenades or anti-tank rockets should be from cover. Elapsed time: about 5 minutes.

APPENDIX A

REFERENCES

DA Pam 310-4	Index of 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.
SB 38-100	Preservation, packaging, packing and marking materials, supplies and equipment used by the Army.
TB Sig 291	Safety measures to be observed when installing and using whip antennas, field type masts, towers, antennas, and metal poles that are used with communication, radar, and direction finder equipment.
TM 9-2330-213-14	Operator, organizational and field maintenance instructions, including repair parts and special tool lists for Chassis, trailer: 1½-ton, 2, wheel M103A1, M103A2, M103A3, M103A4, and M103A4C; trailer, cargo: 1½-ton, 2-wheel, M104, M104A1, M105A1, M105A2; and M105A2C; trailer, tank, water: 1½-ton, Z-wheel M106, M106A1, M107A1, M107A2, and M107A2C; trailer, van, shop folding sides, 1½-ton, Z-wheel, M448.
TM 11-5820-727-12	Operator and organizational maintenance manual: Radio Terminal set AN/TRC-132A.
TM 38-750	The Army Maintenance Management System (TAMMS).
TM 740-90-1	Administrative storage of equipment.

APPENDIX B

MAINTENANCE ALLOCATION

Section I. INTRODUCTION

B-1. General

This appendix provides a summary of the maintenance operations covered in the equipment literature. 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 Functions

Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.

b. Test. To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc. This is accomplished with external test equipment and does not include operation of the equipment and operator type tests using internal meters or indicating devices.

c. Service. To clean, to preserve, to charge, and to add fuel, lubricants, cooling agents, and air. If it is desired that elements, such as painting and lubricating, be defined separately, they may be so listed.

d. ***Adjust.*** To rectify to the extent necessary to bring into proper operating range.

e. ***Align.*** To adjust two or more components or assemblies of an electrical or mechanical sys***tem*** so that their functions are properly synchronized. This does not include setting the frequency control knob of radio receivers or transmitters to the desired frequency.

f. Calibrate. To determine the corrections to be made in the readings of instruments or test equipment used in precise measurement Consists of the comparison 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 with the certified standard.

g. Install. To set up for use in an operational environment such as an encampment, site, or vehicle.

h. Replace. To replace unserviceable items with serviceable like items.

i. Repair. To restore an item to serviceable condition through correction of a specific failure or unserviceable condition. This function includes, but is not limited to welding, grinding, riveting, straightening, and replacement of parts other than the trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.

j. Overhaul. Normally, the highest degree of maintenance performed by the Army in order to minimize timework in process is consistent with quality and economy of operation. It consists of that maintenance necessary to restore an item to completely serviceable condition as prescribed by maintenance standards in technical publications for each item of equipment. Overhaul normally does not return an item to like new, zero mileage, or zero hour condition.

k. Rebuild. The highest degree of materiel maintenance. It consists of restoring equipment as nearly as possible to new condition in accordance with original manufacturing standards. Rebuild is performed only when required by operational considerations or other paramount factors and then only at the depot maintenance category. Rebuild reduces to zero the hours or miles the equipment, or component thereof, has been in use.

l. Symbols. The uppercase letter placed in the appropriate column indicates the lowest level at

which that particular maintenance function is to be performed.

B-3. Explanation of Format

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, Functional Group. Column 2 lists the noun names of components, assemblies, subassemblies, and modules on which maintenance is authorized.

c. Column 3, Maintenance Functions. Column 3 lists the maintenance category at which performance of the specific maintenance function is authorized. Authorization to perform a function at any category also includes authorization to perform that function at higher categories. The codes used represent the various maintenance categories as follows :

Code		*Maintenance category*
c	-	Operator/crew
O		Organizational maintenance
F		Direct support maintenance
H		General support maintenance
D		Depot maintenance

d. Column 4, Tools and Test Equipment. Column 4 specifies, by code, those tools and test equipments required to perform the designated function. The numbers appearing in this column refer to specific tools and test equipment which are identified in table I.

e. Column 5, Remarks. Self-explanatory

B-4 Explanation of Format of Table I, Tool and Test Equipment Requirements

The columns in table I, Tool and Test Equipment Requirements, are as follows :

a. Tools and Equipment. The numbers in this column coincide with the numbers used in the tools and equipment column of the Maintenance Allocation Chart. The numbers indicate the applicable tool for the maintenance function.

b. Maintenance Category. The codes in this column indicate the maintenance category normally allocated the facility.

c. Nomenclature. This column lists tools, test, and maintenance equipment required to perform the maintenance functions.

d. Federal Stock Number. This column lists the Federal stock number of the specific tool or test equipment.

e. Tool Number. Not used.

(Next page is B-3.)

MAINTENANCE ALLOCATION CHART

GROUP NUMBER	COMPONENT ASSEMBLY NOMENCLATURE	MAINTENANCE FUNCTIONS											TOOLS AND EQUIPMENT	REMARKS
		INSPECT	TEST	SERVICE	ADJUST	ALIGN	CALIBRATE	INSTALL	REPLACE	REPAIR	OVERHAUL	REBUILD		
	Antenna Group - AS-2823/TRC	C												Visual inspection for damaged members
				C										Touch-up to prevent corrosion
										O				Repair damaged structural members by replacement
	Tower and Base	C												Visual inspection for damaged members
				C										Touch-up to prevent corrosion
										O				Repair by replacement, unserviceable reflectors
	Outriggers	C												Visual inspection for damaged members
		C												Touch-up to prevent corrosion
										O				Repair by replacement; unserviceable reflectors and cable assys
	Horn Waveguide SMD-62-7304	C												Visual inspection for damaged members
										F			2	Repair by replacement; thermostatic switch, heater element, connector cable assembly, waveguide sections
	Winch	C												Visual inspection for damaged members
					O									Lubrication if required
										H				Repair by replacing winch

TOOL AND TEST EQUIPMENT REQUIREMENTS

TOOLS AND EQUIPMENT	MAINTENANCE CATEGORY	NOMENCLATURE	FEDERAL STOCK NUMBER	TOOL NUMBER
1	O	Tool Kit, Electronic Equipment TK-101/G	5180-064-5178	
2	F	Tool Kit, Electronic Equipment TK-100/G	5180-605-0097	

APPENDIX C
BASIC ISSUE ITEMS LIST
Section I. INTRODUCTION

C-1 Scope.

This appendix lists items which accompany the Parabolic Antenna, ore are required for installation, operation, or operator's maintenance.

C-2. General.

The Basic Issue Items List is divided into the following sections:

a. Basic Issue Items - Section II. Not Applicable.

b. Maintenance and Operating Supplies - Section III. Not Applicable.

C-3 Explanation of Columns.

The following provider an explanation of columns in the tabular list of Basic Issue Items, Section II.

a Source, Maintenance, and Recoverability Codes (SMR), Column 1:

(1) Source Codes: Coder entered in the first and second digit of column 1 are:

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
PB	Item procured and stocked for insurance purposes becaure essentiality dictates that a minimum quantity be available in supply system because procurement lead time prevents rapid acquisition of the item.
PC	Item procured and stocked and which would otherwise be coded PA except that it is deteriorative in nature (processing a shelf life code other than O.)
PD	Support Item, excluding support equipment, procurwd for initial issue or outfitting and stocked only for subsequent or additional or outfittings. Not subject to automatic replenishment. This code should be used on maintenance float items.
PE	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities. This code will be applied to tools and test equipment.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item pecular to the equipment which because of probable discontinuance or shut down of production facilities would prove uneconomical to reproduce at a later time. This code will not be used for items that am procured with rights and data, since this would indicate a potential re-buy of the item.
KD	An item of depot overhaul/kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul or repair.
KF	An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be repaired at organirational or intermediate levels of maintenance.
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO	Item to be manufactured or fabricated at organisational level.
MF	Item to be manufactured or fabricated at the direct support level.
MH	Item to be manufactured or fabricated at the general support level.
MD	Item to be manufactured or fabricated at depot maintenance level.
AO	Item to be assembled at organizational level.
AF	Item ot be assembled at the direct support level.
An	Item to be assembled at general support level.
AD	Item to be assembled at depot maintenance.
XA	Item la not procured or stocked because the requirements for the Item will result in the replacement of the next higher assembly
XB	Item is not procured or stocked If not available through salvage, requisition
xc	Installation drawing diagram, instruction sheet, field service drawing, that is identified by manufacturer part number
XD	A low mortality support item that is not stocked When required, Items will be requested and provided through normal channels Item differs from an XB source in that there generally is no reasonable chance of obtaining the item from cannibalization sources.

(2) Maintenance Codes: Indicates the lowest category or maintenance authorized to Install the listed item. The maintenance level code is entered in the third and fourth positions of column 1

Code	Definition
O	Support item is removed, replaced, and used at the organizational level.
F	Support item is removed, replaced, used at the direct support level.
H	Support item is removed, replaced, used at the general support level.
D	Support items that are removed, replace, used at depot only

Fourth Position: The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair

Code	Definition
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H	The lowest maintenance level capable of complete repair of the support item is the general support level
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
L	Repair restricted to designated Specialized Repair Activity.
Z	Non-repairable. No repair is authorized
B	No repair is authorized. The Item may be reconditioned by adjusting. lubricating, etc , at the user level. No parts or special tools

(3) Recoverability Codes: Code entered in the fifth position of column 1 Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items.

Code	Definition
Z	Non-repairable item When unserviceable condemn and dispose at the level indicated in column three
0	Repairable item When uneconomically repairable, condemn and dispose at organizational level.
F	Repairable item When uneconomically repairable, condemn and dispose at the direct support level
H	Repairable item When uneconomically repairable condemn and dispose at the general support level
D	Repairable item When beyond lower level repair capability return to depot Condemnation and disposal not authorized below depot level
L	Repairable item, Repair, condemnation and disposal not authorized below depot/Specialized Repair Activity level.
A	Item requires special handling or condemnation procedures because of specific reasons (i e, precious metal content, high dollar value, critical material or hazardous matedal). Refer to appropriate manuals/directives for specific instructions.

b Federal Stock Number, Column 2. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

C Description, Column 3 This column indicates the Federal item name and any additional description of the item required 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), Column 4 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, Column 5. This column indicates the quantity of the item used in the assembly group A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g , shims, spacers, etc.)

f Quantity Furnished With Equipment, Column 6. This column indicates the quantity of an item furnished with the equipment

g. Illustration, Column 7 This column is divided as follows:

(1) Figure Number, Column 7a. Indicates the figure number of the illustration in which the item is shown

(2) Reference Designation, Column 7b. Indicates the reference designation used to reference the item in the illustration

C-4 Explanation of Columns in the Tabular **List of Maintenance** and Operating Supplies Section III.

Not applicable.

C-5 Special Information.

No usable on code is used in this publication.

C-6 Abbreviations.

Abbreviations	Explanation
Ref Des.	Reference Designation

C-7 Federal Supply Code far Manufacturers

Code	Manufacturer
00141	PIC Design Corp.
21335	Fafnir Bearing Co. Div. of Textron, Inc.
26592	Key Tool and Die Co.
39428	McMaster Carr Supply Co.
57068	Stanley Works
70742	Associated Spring Corp.
71041	Boston Gear Works Div. of NOrth American Rockwell Corp
73569	A. B. Chance Co.
77820	Bendix Cap.
78189	Illinois Tool Works Shakeproof Div.
80063	Army Electronics Command Procurement and Production Directorate
81349	Military Specifications.
88044	Aeronautical Standards
96906	Military Standards

Section II BASIC ISSUE ITEMS

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY IN UNIT	QTY WITH EQUIP	ILLUSTRATION FIG NO.	ILLUSTRATION REF DES
	5985-153-7917	TRANSPORTABLE PARABOLIC ANTENNA AS-2823/TRC TM 11-5985-343 OPERATOR/CREW REPAIR PARTS, ACCESSORIES, TOOLS AND TEST EQUIPMENT NO PARTS AUTHORIZED OPERATOR/CREW					

APPENDIX D

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

D-l Scope.

This appendix lists repair parts, special tools, and test equipment required for the performance of organizational maintenance of the Parabolic Antenna.

D-2 General.

This Repair Parts and Special Tools List is divided into the following sections:

a. Prescribed Load Allowances (PLA). Not applicable.

b. Repair Parts - Section II. A list of repair parts authorized for the performance of maintenance at the organizational level in illustration figure number and alphabetical nomenclature sequence.

c. Special Tools, Test and Support Equipment. Not applicable.

d Federal Stock Number Index - Section III. A list of Federal stock numbers in ascending numeric sequence, cross referenced to the illustration figure number and reference designation

e. Reference Number Index - Section IV. A list of reference number& with manufacturer@ codes, in ascending alpha-numerical sequence cross referenced to the illustration figure number and reference designation.

f Reference Designation Index - Section V. A list of reference designation in ascending alpha-numerical sequency cross referenced to the illustration figure number.

D-3 Explanation of Columns

The following provides an explanation of columns in the tabular list in Section II

a. Source, Maintenance, and Recoverability Codes (SMR), Column 1.

(1) Source Codes: Codes entered in the first and second digit of column I are:

Code	Definition
PA	Item procured and stocked for anticipated or known usage.
PB	Item procured and stocked for insurance purposes.
PC	Item procured and stocked and which are deteriorative in nature.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings.
PE	Support equipment procured and stocked for initial issue.
PG	Item procured and stocked to provide for sustained support for the life of the equipment.
KD	An item of depot overhaul/kit and not purchased separately.
KF	An item of a maintenance kit and not purchased separately
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.
MO	Item to be manufactured or fabricated at organizational level
MF	Item to be manufactured or fabricated at the direct support level.
MH	Item to be manufactured or fabricated at the general support level.
MD	Item to be manufactured or fabricated at depot maintenance level
AO	Item to be assembled at organizational level
AF	Item to be assembled at direct support level
AH	Item to be assembled at general support level.
AD	Item to be assembled at depot maintenance level
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly
XB	Item **is not procured or stocked It** not available **through salvage, requisition**
xc	Installation drawing diagram, instruction sheet, field service drawing, that is identified by manufacture part number
XD	A low mortality support item that is not stocked When required items will be requested and provided through normal supply channel.

(2) Maintenance Codes: **Codes** entered in the third and fourth positions of column 1 are:

Third Position: The maintenance code entered in the third position will indicate the lowest level authorized to remove/replace, and use the item

Code	Definition
O	Support item is removed, replaced, and used at the organizational level of maintenance

Fourth Position: The maintenance code entered in the fourth position indicates wheter the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair.

Code	Definition
O	**The lowest maintenance level capable of complete repair of the support item is the organizational level**
F	The lowest maintenance level capable of complete repair of the support item is the direct support level
H	The lowest maintenance level capable of complete repair of the support item is the general support level.
D	The lowest maintenance level capable of complete repair of the support item is the depot level
L	Repair restricted to designated Specialized Repair Activity
Z	Non-repairable No repair is authorized.
B	**No repair is authorized The item may be reconditioned by lubricating, adjusting, etc., at the user level.**

(3) Recoverability Code: Code entered in the fifth position. Recoverability codes are assigned to support items to indicate the dispostion action on unserviceable items.

Code	Definition
Z	**Non-repairable item When unservicable condemn and dispose at the level indicated in column three.**
O	**Repairable item. When uneconomically repairable, condemn and dispose at organizational level.**

F Repairable item When uneconomically repairable, condemn and dispose at the direct support level

H Repairable item When uneconomically repairable condemn and dispose at the general support level

D Repairable item When beyond lower level repair capability return to depot Condemnation and disposal not authorized below depot.

L Repairable item Repair, condemnation, and disposal not authorized below depot/Specialized Repair Activity level

A Item requires special handling or condemnation procedures because of specific reasons (i e , precious metal content, high dollar value, critical material, or hazardous material) Refer to appropriate manuals/directives for specific instructions

b Federal Stock Number - Column 2 This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes

c Description - Column 3 This column indicates the Federal item name and a part number or other reference number followed by the applicable five-digit Federal supply code for manufacturers in parentheses

d Unit of Measure (U/M) - Column 4 A two character alphabetic abbreviation indicating the amount or quantity of the item upon which allowances are based, (e g , ea, etc)

e Quantity Incorporated in Unit - Column 5 This column indicates the quantity of the item used in the assembly group A 'V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e g , shims, spacers, etc)

f 15 Day Organizational Maintenance Allowance - Column 6 Not applicable

g Illustration - Column 7 This column is divided as follows

(1) Figure Number - Column 7a Indicates the figure number of the illustration on which the item is shown

(2) Reference Designation - Column 7b Indicates the reference designation used to reference the item in the illustration

D-4 Special Information

Not applicable

D-5 How to Locate a Repair Part

d When the Federal stock number, reference number, or reference designation is unknown:

(1) First Use the table of contents to determine the assembly or subassembly within which the repair part belongs This is necessary since illustrations are prepared by assembly and subassembly and listings are divided accordingly

(2) Second Find the illustration covering the assembly or subassembly to which the repair part belongs

(3) Third Identify the repair part on the illustration and note the reference designation of the repair part

(4) Fourth Use the Repair Parts List to find the assembly or subassembly to which the repair part belongs and locate the reference designation on the illustration

b When the Federal stock number or reference number is known

(1) First Use the Index-Federal Stock Number or the Index-Reference Number to find the pertinent Federal stock number or reference number and note the reference designation and figure number

(2) Second Use the Repair Parts List and Illustration and match the reference designation and figure number

C. When the reference designation is known

(1) First Locate the reference designation in the Index-Reference Designation Cross reference to figure illustration number

(2) Second Note the figure illustration number, then locate the item in the list by the figure illustration number

D-6 Abbreviations

Abbreviations	Explanation
Ref Des	Reference Designation
WG	Waveguide

D-7 Federal Supply Codes for Manufacturers

Code	Manufacturer
00141	PIC Design Corp
21335	Fafnir Bearing Co Div of Textron, Inc
26592	Key Tool and Die Co
39428	McMaster Carr Supply Co
57068	Stanley Works
70472	Associated Spring Corp
71041	Boston Gear Works Div of North American Rockwell Corp
73569	A B Chance Co
77820	Bendix Corp
78189	Illinois Tool Works Shakeproof Div
80063	Army Electronics Command Procurement and Production Directorate
81349	Military Specifications
88044	Aeronautical Standards
96906	Military Standards

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	15 DAY ORGANIZATIONAL MAINTENANCE ALLOWANCE				ILLUSTRATION	
					1-5	6-20	21-50	51-100	FIG NO	REF DES
AF0FF		BAR, PANEL STOWAGE SMD627384 (80063)	EA	1					D-1	A44
PA0ZZ		BRACKET, PANEL STOWAGE SMC627386 (80063)	EA	2	*	*	*	*	D-1	A9
PA0ZZ		INSERT, HELICAL COIL MS122123 (96906)	EA	2	*	*	*	*	D-1	A9MP1
PA0ZZ		BRACKET, PANEL STOWAGE SMC627387 (80063)	EA	2	*	*	*	*	D-1	MP92
PA0ZZ		CLAMP, GROUND 8405H (73569)	EA	1	*	*	*	*	D-1	MP95
AD0DL		HORN, WAVEGUIDE SMD627304 (80063)	EA	1					D-1	A1
PA0ZZ	5340-811-0951	KNOB CL44SBH (99862)	EA	1	*	*	*	*	D-1	MP53
PA0ZZ	5315-044-5864	PIN, COTTER MS9745-28 (96906)	EA	1	*	*	*	*	D-1	MP53H1
PA0ZZ	5340-811-0951	KNOB CL44SBH (99862)	EA	1	*	*	*	*	D-1	A50MP1
PA0ZZ		OUTRIGGER SECTION SMD627397 (80063)	EA	4	*	*	*	*	D-1	MP69
PA0ZZ		OUTRIGGER SECTION SMD627395 (80063)	EA	4	*	*	*	*	D-1	A51
XB0ZZ		HAIRPIN, COTTER		1					D-1	A51MP2
MD0ZZ		ROD, STOP SMC627420 (80063)	EA	1					D-1	A51MP1
PA0ZZ	5985-930-1246	PIN, OUTRIGGER SMC627399-1 (80063)	EA	4	*	*	*	*	D-1	A23
XB0ZZ		HAIRPIN, COTTER		4					D-1	A23H1
PA0ZZ	5315-984-7446	PIN, SPRING MS9048-240 (96906)	EA	1	*	*	*	*	D-1	A23MP2
XB0ZZ		HAIRPIN, COTTER		8					D-1	A27H1
PA0ZZ	5340-003-9491	PIN, QUICK RELEASE CL6DEP1-0S (99862)	EA	1	*	*	*	*	D-1	MP61
PA0ZZ	5340-003-4044	PIN, QUICK RELEASE CL8DEP4-8S (99862)	EA	2	*	*	*	*	D-1	MP65
PA0ZZ	5340-922-2207	PIN, QUICK RELEASE CL8DEP6-3S (99862)	EA	2	*	*	*	*	D-1	MP63
PA0ZZ	5340-922-2346	PIN, QUICK RELEASE CL6DEP4-08	EA	2	*	*	*	*	D-1	MP67
MD0ZZ		PIN, STRAIGHT HEADLESS SMD627330 (80063)	EA	1					D-1	MP8
XB0ZZ		HAIRPIN, COTTER		2					D-1	MP8H2
PA0DL	5985-764-1083	REFLECTOR SECTION, ANTENNA SMD627306 (80063)	EA	4	*	*	*	*	D-1	A11
PA0ZZ		SHAFT, EXTENSION SMD627338 (80063)	EA	1	*	*	*	*	D-1	MP16

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	15 DAY ORGANIZATIONAL MAINTENANCE ALLOWANCE				ILLUSTRATION	
					1-5	6-20	21-50	51-100	FIG NO.	REF DES
PA0ZZ		STRAP, WEBBING SMC627425 (80063)	EA	4	*	*	*	*	D-1	MP120
PA0ZZ		STRAP, WEBBING PCS1X24 (70007)	EA	1	*	*	*	*	D-1	MP116
PA0ZZ		SUPPORT ASSEMBLY SMC627309 (80063)	EA	1	*	*	*	*	D-1	A4
MD0HH		TARPAULIN, MODIFIED SMC627422 (80063)	EA	1					D-1	MP119

SECTION II. *REPAIR* PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	15 DAY ORGANIZATIONAL MAINTENANCE ALLOWANCE				ILLUSTRATION	
					1-5	6-20	21-50	51-100	FIG NO.	REF DES
PA0ZZ	4030-004-1596	ANCHOR, GROUND ARROWHEAD SMC627423 (80063)	EA	8	*	*	*	*	D-2	A35
XA0ZZ		ANCHOR, ARROWHEAD		1					D-2	A35MP1
XA0ZZ		SPLICING SLEEVE		2					D-2	A35MP2
XA0ZZ		THIMBLE, ROPE		1					D-2	A35MP4
XA0ZZ		WIRE ROPE		1					D-2	A36MP6
PA0ZZ		GUY ASSEMBLY, GROUND ANCHOR SMC627421 (80063)	FA	4	*	*	*	*	D-2	A15
PA0ZZ		SHACKLE 1-2TY4CL1RRC271 (81349)	EA	1	*	*	*	*	D-2	MP9
PA0ZZ		SHACKLE 5-8TY4CL1RRC271 (81349)	EA	1	*	*	*	*	D-2	MP6
XA0ZZ		SPLICING SLEEVE		2					D-2	A15MP2
XA0ZZ		THIMBLE, ROPE		2					D-2	A15MP4
XA0ZZ		TURNBUCKLE		1					D-2	A15MP8
XA0ZZ		WIRE ROPE		1					D-2	A15MP5
PA0ZZ	5120-243-2957	HAMMER, HAND TYPEXGGGH86 (81349)	EA	1	*	*	*	*	D-2	MP106
XA0ZZ		HANDLE, HOLDING		1					D-2	MP107
XA0ZZ		HEAD, DRIVING		1					D-2	MP108
PA0ZF		JACK, HYDRAULIC JHL1-5 (26592)	EA	1	*	*	*	*	D-2	A20
PA0ZZ		ROD, DRIVING SMC627463 (80063)	EA	1	*	*	*	*	D-2	MP115
PA0ZZ		ROD, GROUND SMC627429 (80063)	EA	1	*	*	*	*	D-2	A22
PA0ZZ		CLAMP, GROUND 8405H (73569)	EA	1	*	*	*	*	D-2	A22MP1
XA0ZZ		WIRE ROPE, PHOSPHOROUS BRONZE		1					D-2	A22MP3
PA0ZZ	5120-188-8450	SHOVEL SIZE2 (81349)	EA	1	*	*	*	*	D-2	MP13
PA0ZZ		STAKE, FOOTPAD SMC627431 (80063)	EA	4	*	*	*	*	D-2	MP39
MD0ZZ		SUPPORT, WAVEGUIDE SMC627430 (80063)	EA	1					D-2	MP21

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	15 DAY ORGANIZATIONAL MAINTENANCE ALLOWANCE				ILLUSTRATION	
					1-5	6-20	21-50	51-100	FIG NO.	REF DES
AF0FF	6150-768-9433	CABLE ASSEMBLY, POWER SMC627406 (80063)	EA	1					--	W1

SECTION II. REPAIR *PARTS* LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	15 DAY ORGANIZATIONAL MAINTENANCE ALLOWANCE				ILLUSTRATION	
					1-5	6-20	21-50	51-100	FIG NO.	REF DES
AF0FF	6150-764-9255	CABLE ASSEMBLY, POWER SMC627378 (80063)	EA	1					D-4	A1W1
MD0ZZ		COVER ASSEMBLY, WG FLANGE SMC627376 (80063)	EA	2					D-4	A1A3
XB0ZZ		THUMB SCREW, SHOULDER		4					D-4	A1A3H4
MD0ZZ		DISK, RUBBER SMC627442 (80063)	EA	1					D-4	A1A3MP1
MD0ZZ		PLATE, COVER WAVEGUIDE SMC627443 (80063)	EA	1					D-4	A1A3MP2
MD0ZZ		GUARD, WAVEGUIDE SMC627368 (80063)	EA	1					D-4	A1MP2
MD0ZZ		PROTECTIVE COVER, HORN ASSEMBLY SMC627372 (80063)	EA	1					D-4	A1A2

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	15 DAY ORGANIZATIONAL MAINTENANCE ALLOWANCE				ILLUSTRATION	
					1-5	6-20	21-50	51-100	FIG NO.	REF DES
MD0ZZ		COVER PLATE, HORN SMC627374 (80063)	EA	1					D-5	A1A2 MP1
XB0ZZ		SCREW, THUMB SHOULDER		3					D-5	A1A2MP1 H3
MD0ZZ		PLATE, MOUNTING SMC627375 (80063)	EA	1					D-5	A1A2A1
PA0ZZ	5340-597-3302	INSERT, HELICAL COIL MS124695 (96906)	EA	3	*	*	*	*	D-5	A1A2A1 MP1
MD0ZZ		PLATE SMC627375-1 (80063)	EA	1					D-5	A1A2A1 MP4
MD0ZZ		RUBBER STRIP, HORN COVER SMC627373 (80063)	EA	1					D-5	A1A2MP2

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	15 DAY ORGANIZATIONAL MAINTENANCE ALLOWANCE				ILLUSTRATION	
					1-5	6-20	21-50	51-100	FIG NO.	REF DES
PA0ZZ	5305-021-3740	BOLT, HEXAGON HEAD MS35307-364 (96906)	EA	1	*	*	*	*	D-6	A4MP2
PA0ZZ		CORD ASSEMBLY, WIRE CL73KA6-0 (99862)	EA	1	*	*	*	*	D-6	A4MP5
PA0ZZ	5305-050-9229	SCREW, MACHINE MS51957-63 (96906)	EA	1	*	*	*	*	D-6	A4MP5H1
PA0ZZ	5310-595-6772	WASHER, FLAT MS15795-808 (96906)	EA	1	*	*	*	*	D-6	A4MP5H1
PA0ZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	1	*	*	*	*	D-6	A4MP5H1
XB0ZZ		NUT, PLAIN WING		1					D-6	A4MP1
PA0ZZ	5340-003-9491	PIN, QUICK RELEASE CL6DEP1-05 (99862)	EA	1	*	*	*	*	D-6	A4MP4
XA0ZZ		SUPPORT, ANTENNA		1					D-6	A4MP6
PA0ZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	1	*	*	*	*	D-6	A4MP3

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY IN UNIT	15 DAY ORGANIZATIONAL MAINTENANCE ALLOWANCE				ILLUSTRATION	
					1-5	6-20	21-50	51-100	FIG NO	REF DES
XB02Z		RUBBER, SPECIAL		1					--	A3MP1

Section III. INDEX FEDERAL STOCK NUMBER, CROSS REFERENCE TO FIGURE AND REFERENCE DESIGNATION

Stock Number	Figure No.	Ref. Des.	Stock Number	Figure No.	Ref. Des.
4030-004-1596	D- 2	A35			
5120-188-8450	D- 2	MP13			
5120-243-2957	D- 2	MP106			
5305-021-3740	D- 6	A4MP2			
5305-050-9229	D- 6	A4MP5H1			
5310-595-6772	D- 6	A4MP5H1			
5310-773-7618	D- 6	A4MP3			
5310-933-8120	D- 6	A4MP5H1			
5315-044-5864	D- 1	MP53H1			
5315-984-7446	D- 1	A23MP2			
5340-003-4044	D- 1	MP65			
5340-003-9491	D- 5	A4MP4			
	D- 1	MP61			
5340-597-3302	D- 5	A1A2A1MP1			
5340-811-0951	D- 1	A50MP1			
	D- 1	MP53			
5340-922-2207	D- 1	MP63			
5340-922-2346	D- 1	MP67			
5985-764-1083	D- 1	A11			
5985-960-1246	D- 1	A23			
6150-764-9225	D- 4	A1W1			
6150-768-9433	D- 3	W1			

Section IV. INDEX - REFERENCE NUMBER, CROSS REFERENCE TO FIGURE AND REFERENCE DESIGNATION

Reference No.	Mfg. Code	Figure No.	Ref. Des.
CL44SBH	99862	D- 1	A50MP1
		D- 1	MP53
CL6DEP1-08	99862	D- 6	A4MP4
		D- 1	MP61
CL5DEP4-08	99862	D- 1	MP67
CL73KA6-0	99862	D- 6	A4MP5
CL8DEP48S	99862	D- 1	MP65
CL8DEP6-3S	99862	D- 1	MP63
JHL1-5	26292	D- 2	A20
MS122123	96906	D- 1	A9MP1
MS124695	96906	D- 5	A1A2A1MP1
MS15795-808	96906	D- 6	A4MP5H1
MS15795-814	96906	D- 6	A4MP3
MS35307-364	96906	D- 6	A4MP2
MS35338-138	96906	D- 6	A4MP5H1
MS51957-63	96906	D- 6	A4MP5H1
MS9048-240	96906	D- 1	A23MP2
MS9245-28	96906	D- 1	MP53H1
PCS1X24	70007	D- 1	MP116
SIZE2	81349	D- 1	MP13
SMD627304	80063	D- 1	A1
SMD627306	80063	D- 1	A11
SMC627309	80063	D- 1	A4
SMC627330	80063	D- 1	MP8
SMD627338	80063	D- 1	MP16
SMD627368	80063	D- 4	A1MP2
SMC627372	80063	D- 4	A1A2
SMC627373	80063	D- 5	A1A2MP2
SMC627374	80063	D- 5	A1A2MP1
SMC627375	80063	D- 5	A1A2A1
SMC627375-1	80063	D- 5	A1A2A1MP4
SMC627376	80063	D- 4	A1A3
SMC627378	80063	D- 4	A1W1
SMD627384	80063	D- 1	A44
SMC627386	80063	D- 1	A9
SMC627387	80063	D- 1	MP92
SMC627395	80063	D- 1	A51
SMD627397	80063	D- 1	MP69
SMC627399-1	80063	D- 1	A23
SMC627406	80063	D- 3	W1
SMD627420	80063	D- 1	A51MP1
SMC627421	80063	D- 2	A15
SMC627422	80063	D- 1	MP119
SMC627423	80063	D- 1	A35
SMC627425	80063	D- 1	MP120
SMC627429	80063	D- 2	A22
SMC627430	80063	D- 2	MP21
SMC627431	80063	D- 2	MP39
SMC627442	80063	D- 4	A1A3MP1
SMC627443	80063	D- 4	A1A3MP2
SMC627463	80063	D- 2	MP115
TYPEXGGGH86	81349	D- 2	MP106
1-2TY4CL1RRC271	81349	D- 2	MP9
5-8TY4CL1RRC271	81349	D- 2	MP6
8405H	73569	D- 2	A22MP1

Section V. INDEX - REFERENCE DESIGNATION, CROSS REFERENCE TO FIGURE NUMBER

Reference Designation	Figure No.
A1	D- 1
A1A2	D- 4
A1A2A1	D- 5
A1A2A1MP1	D- 5
A1A2A1MP4	D- 5
A1A2MP1	D- 5
A1A2MP1H3	D- 5
A1A2MP2	D- 5
A1A3	D- 4
A1A3H4	D- 4
A1A3MP1	D- 4
A1A3MP2	D- 4
A1MP2	D- 4
A1W1	D- 4
A3MP1	D- 7
A4	D- 1
A4MP1	D- 6
A4MP2	D- 6
A4MP3	D- 6
A4MP4	D- 6
A4MP5	D- 6
A4MP5H1	D- 6
A4MP6	D- 6
A9	D- 1
A9MP1	D- 1
A11	D- 1
A15	D- 2
A15MP2	D- 2
A15MP4	D- 2
A15MP5	D- 2
A15MP8	D- 2
A20	D- 2
A22	D- 2
A22MP1	D- 2
A22MP3	D- 2
A23	D- 1
A23H1	D- 1
A23MP2	D- 1
A27H1	D- 1
A35	D- 2
A35MP1	D- 2
A35MP2	D- 2
A35MP4	D- 2
A35MP6	D- 2
A44	D- 1
A50MP1	D- 1
A51	D- 1
A51MP1	D- 1
A51MP2	D- 1
MP6	D- 2
MP8	D- 1
MP0HZ	D- 1
MP0	D- 2
MP13	D- 2
MP16	D- 1
MP21	D- 2
MP39	D- 2
MP53	D- 1
MP53H1	D- 1
MP61	D- 1
MP63	D- 1
MP65	D- 1
MP67	D- 1
MP69	D- 1
MP92	D- 1
MP95	D- 1
MP106	D- 2
MP107	D- 2
MP108	D- 2
MP115	D- 2
MP116	D- 1
MP119	D- 1
MP120	D- 1
W1	D- 3
W1J1	D- 3
W1J2	D- 3
W1MP1	D- 3
W1MP3	D- 3

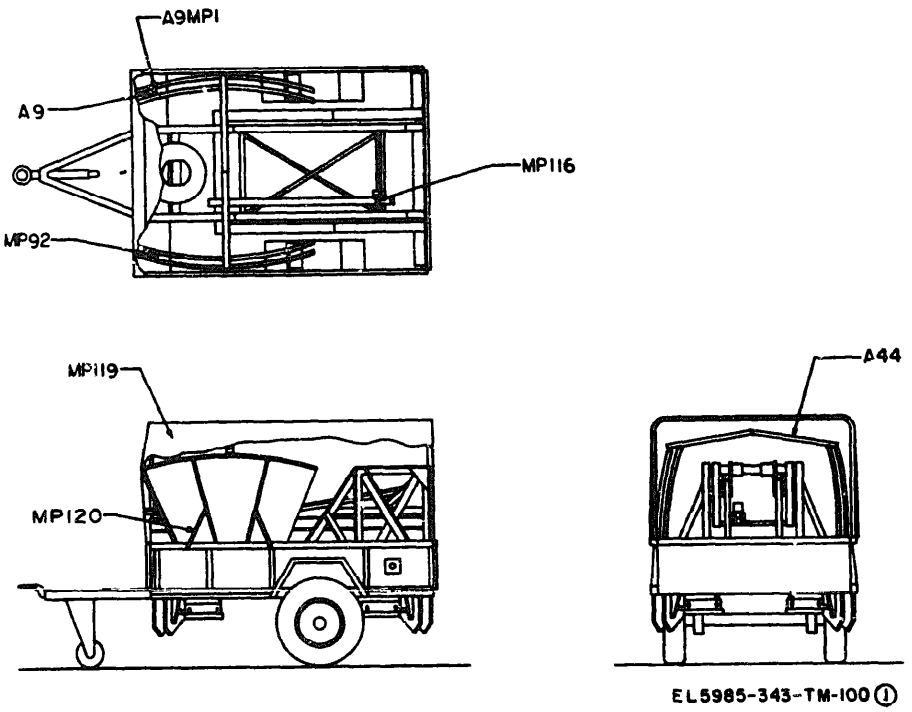

Figure *D-1.* ①. ***Antenna AS-2823/TRC (Sheet 1 of 5).***

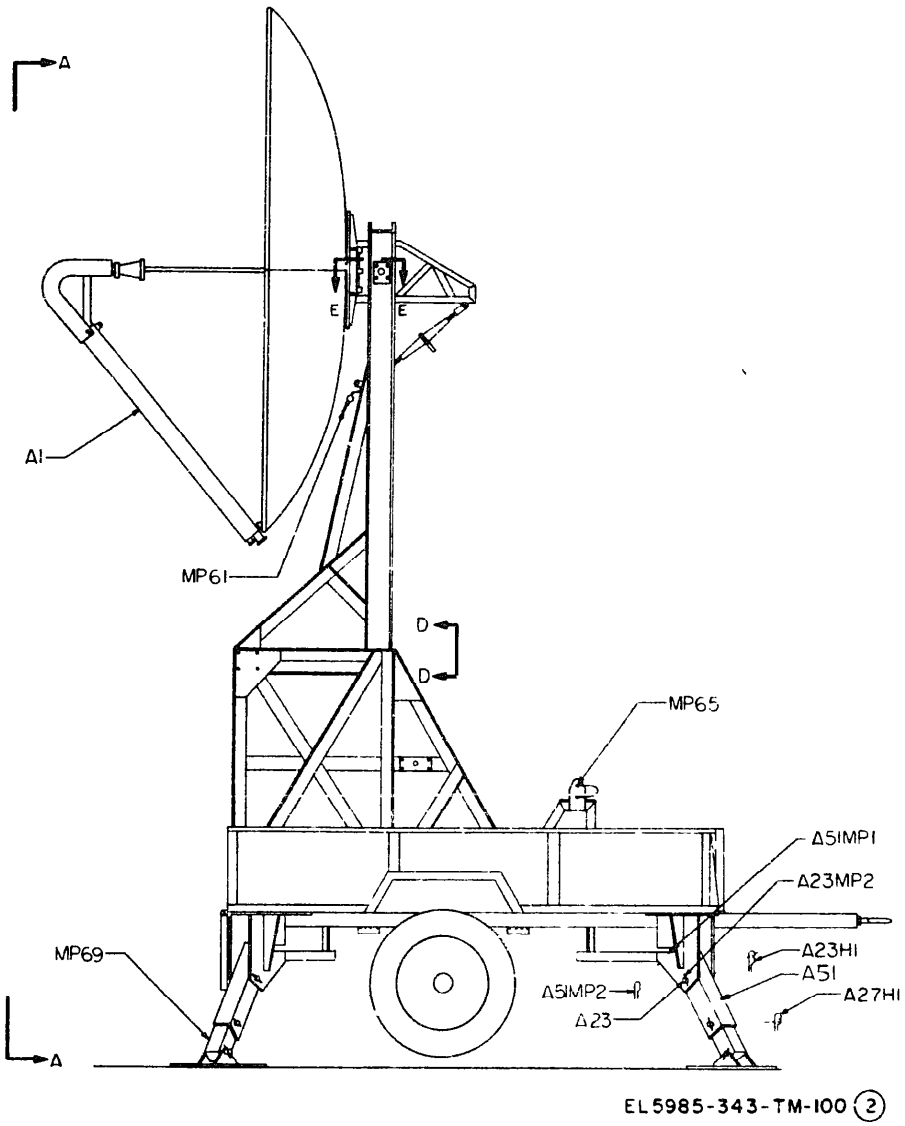

***Figure D-1②. Antenna AS-2823/TRC (Sheet 2** of 5).*

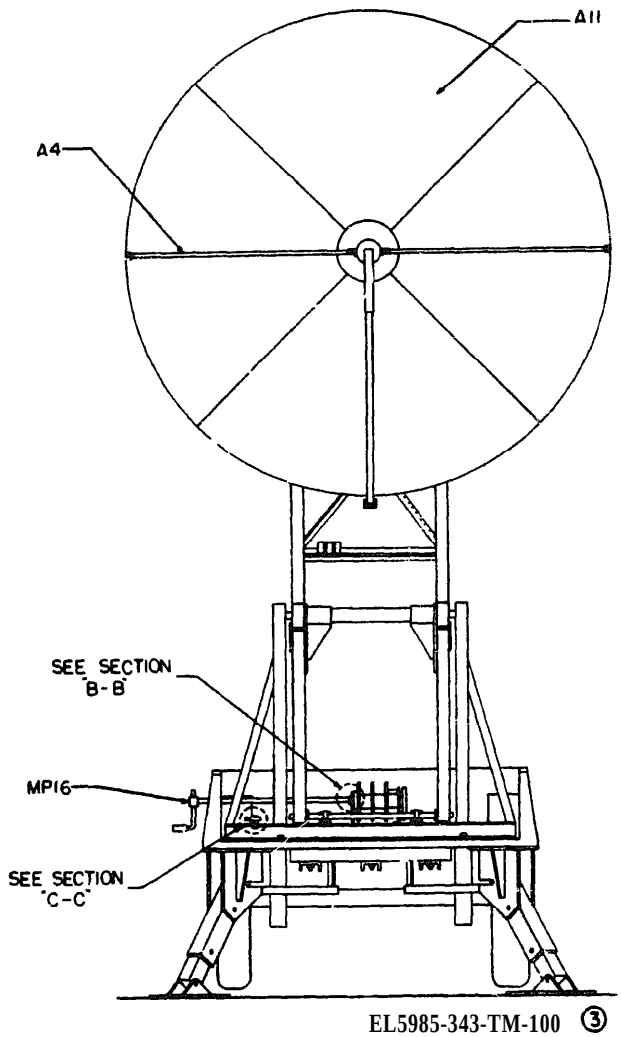

Figure *D-1③. Antenna AS-2823/TRC (Sheet 3 of 5).*

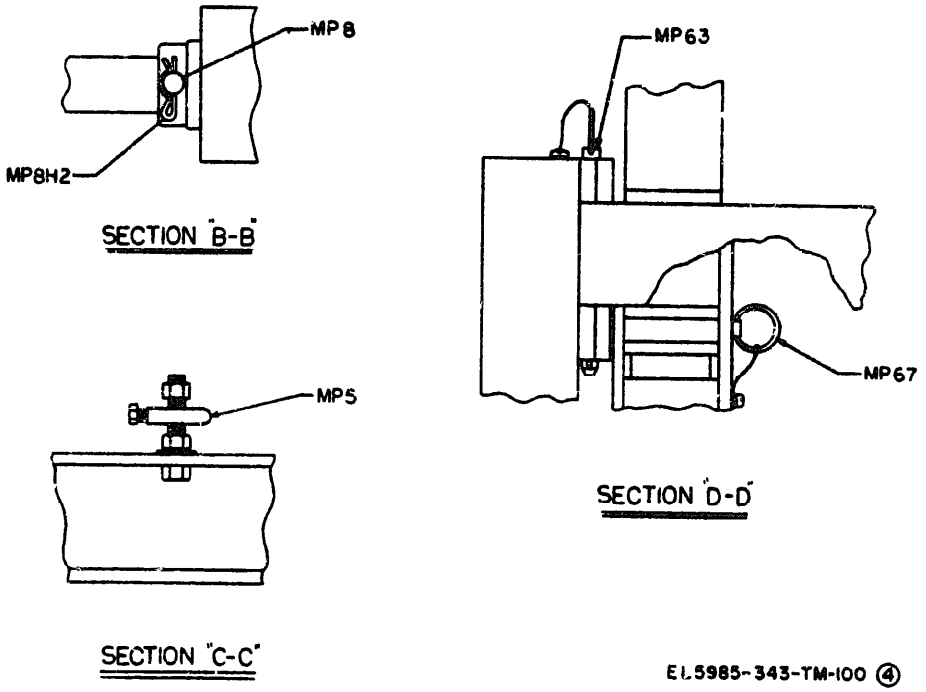

Figure D-1④. Antenna AS-2823/TRC (Sheet 4 of 5).

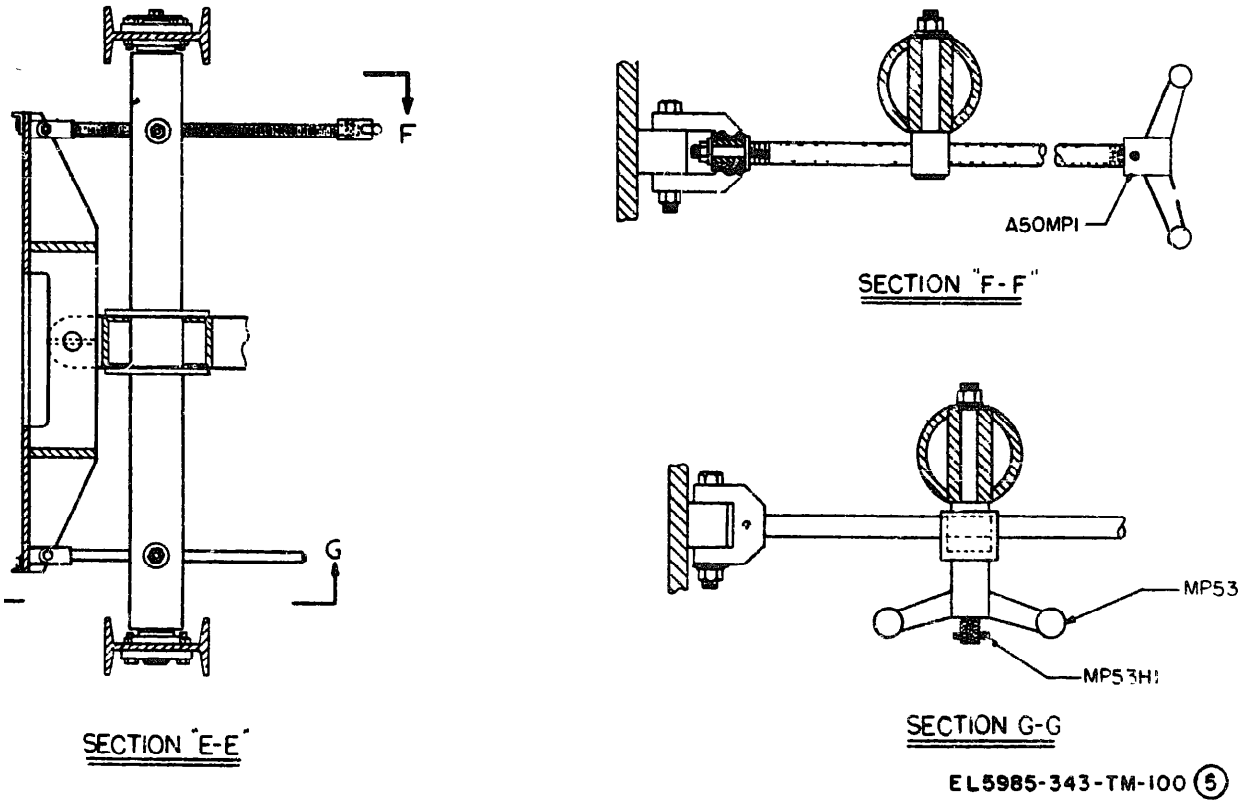

Figure D-1⑤. Antenna *AS-2823/TRC* (Sheet 5 of 5).

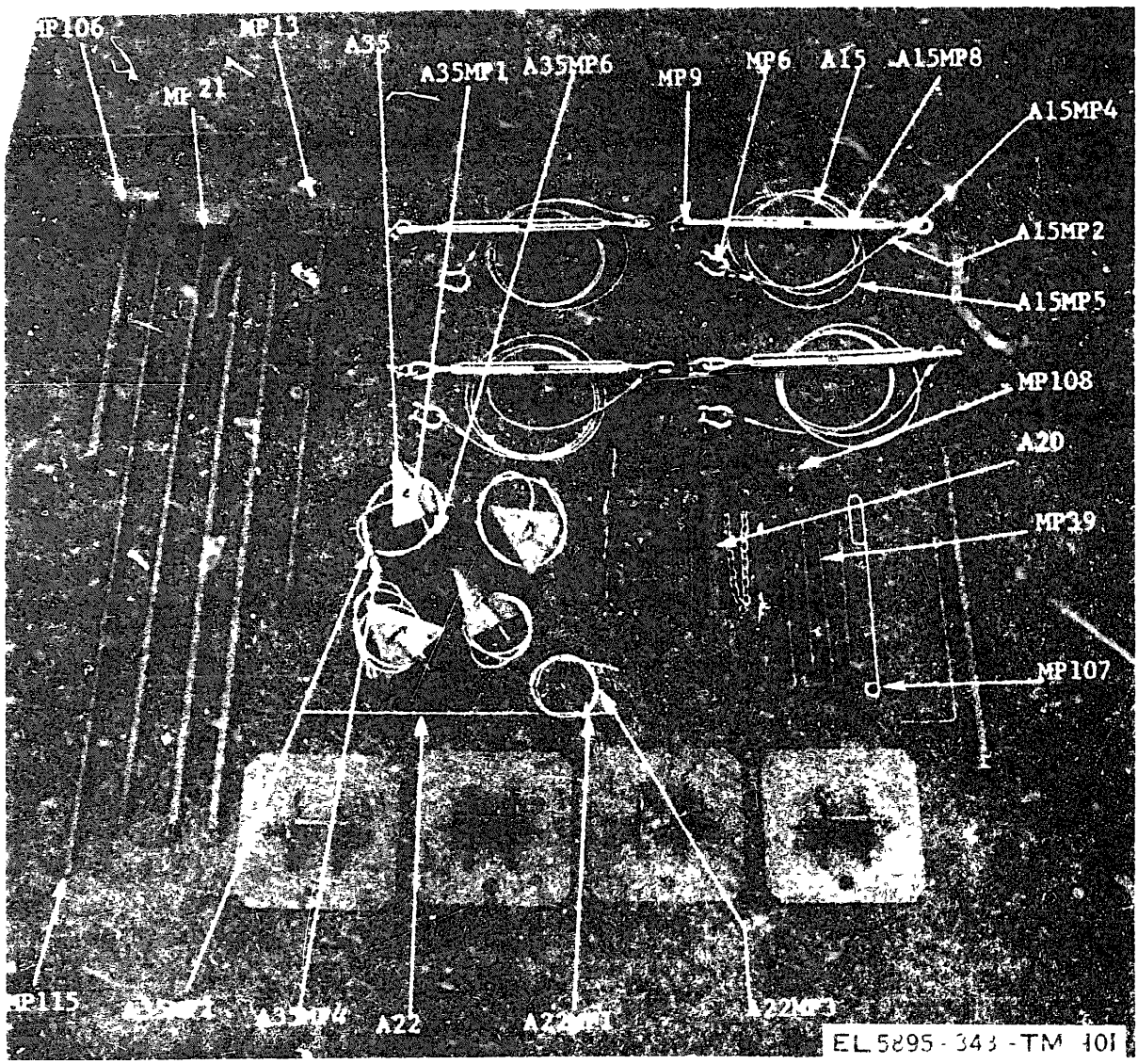

Figure D-2. Anchoring Equipment.

Figure D-3. Power Cable Assembly.

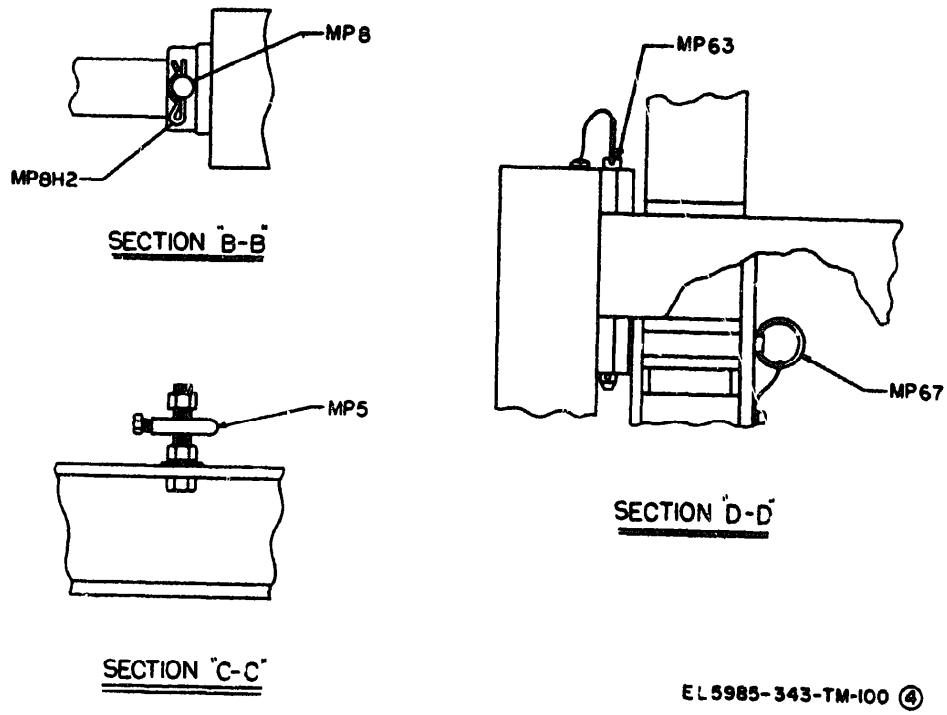

Figure ***D-1*** ④. ***Antenna AS-2823/TRC*** (sheet ***4*** **of 5**).

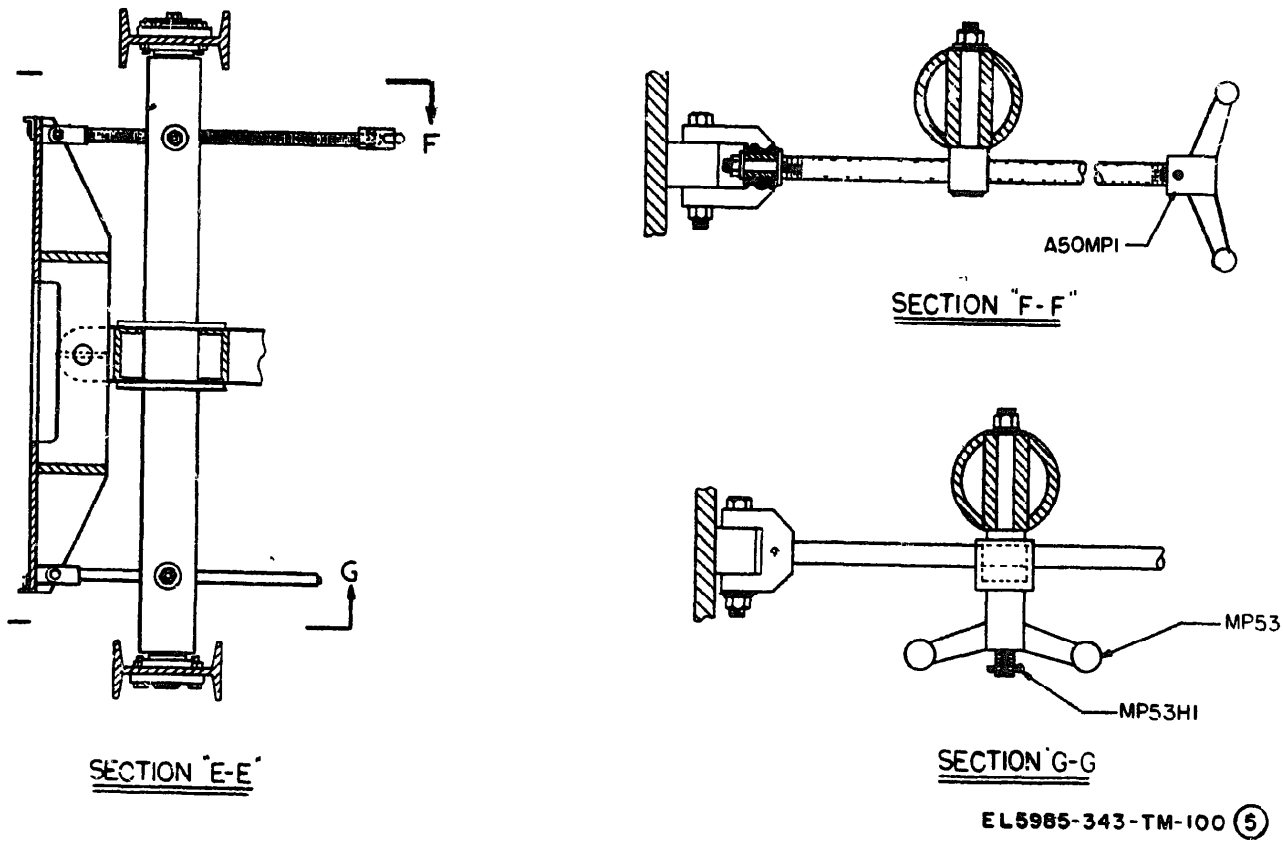

Figure ***D-1*** ⑤. ***Antenna AS-2823/TRC*** **(Sheet** ***5 of 5*****).**

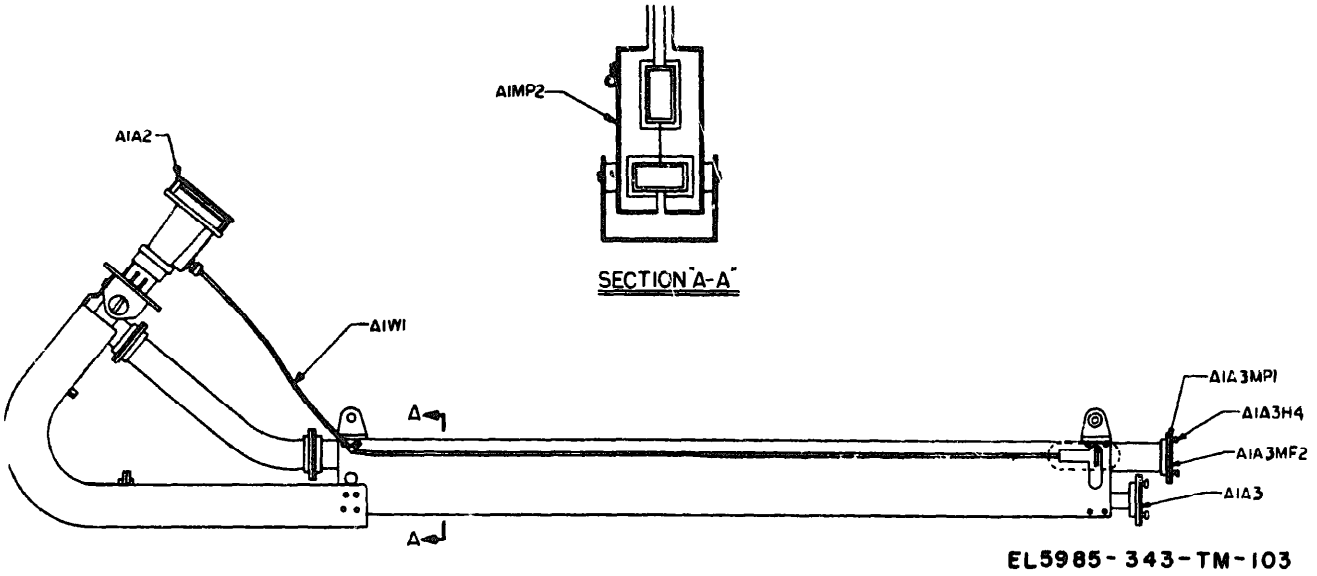

Figure D-4. Waveguide Horn.

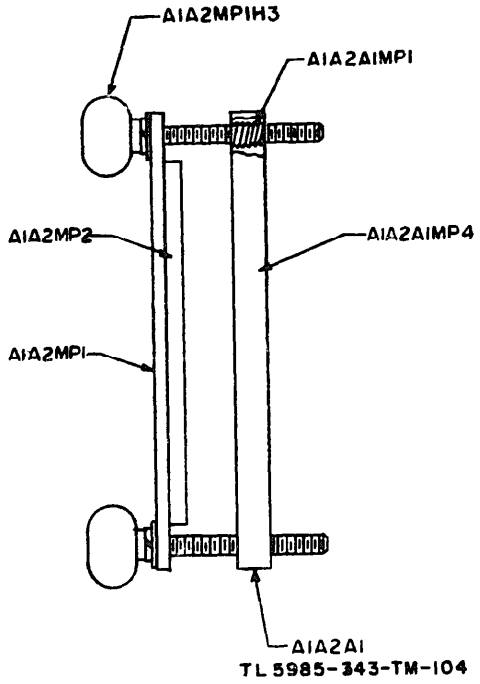

Figure D-5. Horn Assembly Protective Cover.

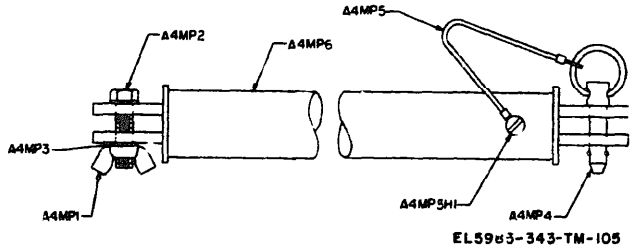

Figure D-6. Support Assembly.

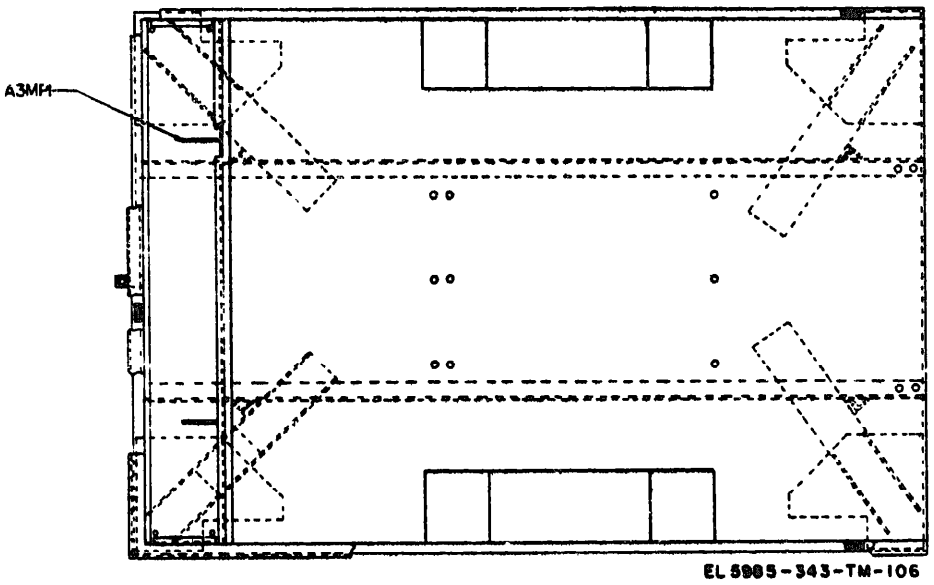

Figure D-7. Trailer, Cargo Modified.

APPENDIX E

DIRECT SUPPORT, GENERAL SUPPORT AND DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I INTRODUCTION

E-1 Scope

This Appendix lists repair parts required for the performance of direct support, genera: support, **and depot** maintenance of the Parabolic Antenna

E-2 General

This **Repair Parts and Special** Tools List is divided into the following sections:

a Repair Parts - section II **A** list of repair parts authorized for **the** performance of maintenance the dir**ect support, general support, and** depot level quire and **reference designation** sequence

b Special Tools, Test and Support Equipment Not Applicable

C Federal Stock Number Index - Section III A list of Federal stock numbers in **ascending** numerical sequence cross-referenced to the illustration figure number and **ref**erence designation

d Reference Number Index - Section IV. **A** list **of** reference numbers in ascending alpha-numerical sequence cross-referenced to the illustration figure number and reference designation

e Reference Designation Index - Section V **A** list of reference **designations** in ascending alpha-numerical sequence cross-referenced to the illustration **figure** number

E-3 Explanation of Columns

The following provides an explanation of columns in the tabular lists **in** Section II

a Source, Maintenance. and Recoverability Codes (SMR), Column 1.

(I) The following provides **the explanation** for the Source, Maintenance, and Recoverability Codes:

a Source Codes: Codes entered **in** the first **and** second digit of column 1.

Code	Definition
PA	Item procured and stocked **for anticipated** or known usage
PB	Item procured and stocked **for** insurance **purposes**
PC	Item procured and stocked **and which are** deteriorative in nature
PD	Support item, excluding **support** equipment, procured for initial issue or outfitting and stocked only for subsequent or additional **initial issues** or outfittings
PE	Support equipment procured and stocked for initial issue
PG	Item procured and stocked to provide for sustained support for the life of the equip&t
KD	An item of depot overhaul/kit and not purchased **separately**
KF	**An** item of a maintenance kit and not purchased **separately**
KB	Item included **in** both a depot overhaul/repair kit and **a** maintenance kit
MO	Item to be manufactured **or** fabricated **at** organizational level
MF	Item to be manufactured **or** fabricated **at** the direct **support level**
MH	**Item to be manufactured** or **fabricated at the** general **support level**
MD	**Item to be manufactured or fabricated at depot maintenance level**
AO	Item **to** be assembled at **organizational level**
AF	**Item to be assembled at direct support level**
AH	Item to be assembled **at general support level**
AD	Item **to be assembled at** depot **maintenance level**
XA	**Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly**
XB	Item is not procured or stocked If not **available** through **salvage, requisition**
XC	**Installation drawing diagram,** instruction sheet, **field service drawing, that is identified** by manufacturer **part** number
XD	**A low mortality** support item that is not stocked When required, **items will be requested and provided through normal supply channel**

b **Maintenance Codes:** Codes **entered in the** third **and fourth positions of column 1:**

(1) Third Position: The **maintenance code entered** in the **third position will indicate the lowest maintenance level authorized to remove/replace, and use** the item

Code	Definition
O	**Support item is removed, replaced,** and used at the **organizational level**
F	**Support item is removed, replaced,** used at **the direct support level.**
H	**Support item is removed, replaced, used** at **the general support level**
D	**Support items that are removed, replaced, used at** depot only

(2) Fourth Position: The maintenance code entered in the fourth position indicates whether the **item is to be repaired and identifies** the lowest **maintenance level with the capability to perform complete repair.**

Code	Definition
O	**The lowest maintenance level capable of complete repair of the support** item is the organ**izational level**
F	**The** lowest **maintenance level capable of complete repair** of the **support item** is the direct **support level**
H	The lowest **maintenance level capable** of **complete repair** of the support item **is the depot level**
D	The lowest **maintenance level capable of complete repair of the support** item **is the depot** level
L	**Repair restricted** to **designated Specialized Repair Activity**
Z	**Non-repairable No repair is authorized**
B	**NO repair is authorized. The item may be reconditioned by adjusting, lubricating, etc.,** at **the user level. No parts or special tools.**

C **Recoverability Codes; Code entered in the fifth position of column 1.**

Code	Definition
Z	Non-repairable item When unserviceable condemn and dispose at the level indicated in column three
0	Repairable item When uneconomically repairable, condemn and dispose at organizational level
	Repairable item When uneconomically repairable, condemn and dispose at the direct support level.
H	Repairable item When uneconomically repairable condemn and dispose at the general support level
D	Repairable item When beyond lower level repair capability return to depot. Condemnation and disposal not authorized below depot
L	Repairable item Repair, condemnation and disposal not authorized below depot/ Specialized Repair Activity level.
A	Item requires special handling or condemnation procedures because of specific reasons (i e , precious metal content, high dollar value, critical material. or hazardous material) Refer to appropriate manuals/ directives for specific instructions

b Federal Stock Number, Column 2 This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

C Description, Column 3 This column indicates the Federal item name, and any additional description of the item required 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), Column 4. A 2 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, Column 5. This column indicates the quantity of the item used in the assembly group A "W" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e. g , shims, spacers, etc).

f 30-Day DS/GS Maintenance Allowances, Columns 6 and 7 The allowance columns are divided into three subcolumns but allowance quantities are not listed Requisition as required and authorized

g l-Year Allowances per 100 Equipments/Contingency Planning Purposes, Column 8 Allowance quantities are not listed Requisition as required and authorized

h. Depot Maintenance Allowance per 100 Equipments, Column 9 Allowance quantities are not listed Requisition as required and authorized.

i Illustration, Column 10. This column IS divided as follows:

(1) Figure Number, Column 10a Indicates the figure number of the illustration in which the item is shown

(2) Reference Designation, Column 10b indicates the reference designation used to reference the item in the illustration.

E-4 Special Information Not Applicable.

E-5 How to Locate Repair Parts

a When Federal stock number, reference number is known;

(1) First Using the Index *of* Federal Stock Numbers and Reference Numbers find the pertinent Federal stock number or reference number This index is in ascending FSN sequence followed by by a list of reference numbers in ascending alpha-numeric sequence, cross-referenced to the illustration figure number and reference designation

(2) Second. Using the Repair Fart Listing, find the assembly group of the repair part and the illustration *figure* number and the Index of Federal Stock Numbers and the Index *of* Reference Numbers.

b. When the Reference Designation is known:

(1) Locate the reference designation in the Index--Reference Designation Cross reference to figure illustration number.

(2) Note the figure illustration number: then locate the item in the list by the figure illustration number.

c. When the Federal stock number, reference number, or reference designation is unknown:

(1) First Using the table of contents, determine the assembly group to which the repair part belongs Thin is necessary since illustrations are prepared for assembly groups and listings are divided into the same groups

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

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

(4) Fourth Using the Repair Parts Listing, find the assembly group to which the repair part belongs and locate the illustration figure and reference designation noted on the illustration.

E-6 Abbreviations

No abbreviations are used in this appendix

E-7 Federal Supply Codes for Manufacturers.

Code	Manufacturer
00141	PIC Design Corp.
21335	Fafnir Bearing Co Div. of Textron, Inc.
26592	Key Tool and Die Co
39428	McMaster Carr Supply Co
57068	Stanley Works
70472	Associated Spring Corp.
71041	Boston Gear Wake Div of North American Rockwell Corp.
73596	A. B. Chance Co.
77820	Bendix Corp.
78189	Illinois Tool Works Shakeproof Div.
80063	Army Electronics Command Procurement and Production Directorate
81349	Military Specifications
88044	Aeronautical Standards
96906	Military Standards

SECTION II REPAIR PARTS LIST

SMR CD	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	RFF DES
	5985-153-7917	ANTENNA, AS-2843/TRC ASSEMBLY												
MDDDL		ARM AND SHAFT ASSEMBLY SMD627317 (80063)	EA	1									E-1	A43
AF0FF		BAR, PANEL STOWAGE ASSEMBLY SMD627364 (80063)	EA	1									E-1	A44
MDDZZ		BAR, TIE SMD627307 (80063)	EA	1									E-1	MP2
MDDDL		BASE, TOWER SMD627307 (80063)	EA	1									E-1	MP1
PADZZ	5305-021-3836	BOLT, HEXAGON HEAD MS35307-421 (96906)	EA	4							*	*	E-1	MP1H4
XBDZZ		BOLT, HEXAGON HEAD		9									E-1	MP1H9
PADZZ	5310-768-0321	NUT, PLAIN HEXAGON MS51971-5 (96906)	EA	9							*	*	E-1	MP1H13
XBDZZ		WASHER, BEVEL		13									E-1	MP1H13
PADZZ	5310-543-2862	WASHER, FLAT MS15795-818 (96906)	EA	13							*	*	E-1	MP1H13
PADZZ	5310-933-8778	WASHER, LOCK MS35338-143 (96906)	EA	9							*	*	E-1	MP1H9
MDDZZ		BEARING BLOCK SMC627437 (80063)	EA	2									E-1	MP77
PADZZ	5305-021-3806	BOLT, HEXAGON HEAD MS35307-413 (96906)	EA	8							*	*	E-1	MP77H8
PADZZ	5310-768-0321	NUT, PLAIN HEXAGON MS51971-5 (96906)	EA	8							*	*	E-1	MP77H8
PADZZ	5310-543-2862	WASHER, FLAT MS15795-818 (96906)	EA	8							*	*	E-1	MP77H8
PADZZ	5310-933-8778	WASHER, LOCK MS35338-143 (96906)	EA	8							*	*	E-1	MP77H8
MDDZZ		BEARING, ELEVATION JACK SMC627469 (80063)	EA	2									E-1	MP79
MDDZZ		BEARING, FLANGED RCJ1-1-2 (21335)	EA	3									E-1	MP50
PADZZ	5305-021-3806	BOLT, HEXAGON HEAD MS35307-413 (96906)	EA	4							*	*	E-1	MP50H4
PADZZ	5305-816-6375	BOLT, HEXAGON HEAD MS35307-417 (96906)	EA	8							*	*	E-1	MP50H8
PADZZ	5310-768-032	NUT, PLAIN HEXAGON MS51971-5 (96906)	EA	12							*	*	E-1	MP50 H12
PADZZ	5310-543-2862	WASHER, FLAT MS15795-818 (96906)	EA	12							*	*	E-1	MP50 H12
PADZZ	5310-933-8778	WASHER, LOCK MS35338-143 (96906)	EA	12							*	*	E-1	MP50 H12
XBDZZ		BEARING, FLANGED		2									E-1	A45

SECTION II REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
PADZZ	5123-733-441	BEARING, FLANGED FB810-4 (71041)	EA	1							*	*	E-1	A45MP1
MDDZZ		BEARING, FLANGED SMC627471-1 (80063)	EA	2									E-1	MP81
MDDZZ		BEARING, FLANGED SMC627471-2 (80063)	EA	2									E-1	MP83
MDDZZ		BEARING, FLANGED SMC627471-3 (80063)	EA	2									E-1	MP85
PAHZZ		BOLT, EYE MS51937-10 (96906)	EA	4				*	*	*	*	*	E-1	MP87
PAHZZ	5310-763-8927	NUT, PLAIN HEXAGON MS51971-10 (96906)	EA	4				*	*	*	*	*	E-1	MP87H4
PAHZZ	5310-543-2500	WASHER, FLAT MS15795-826 (96906)	EA	4				*	*	*	*	*	E-1	MP87H4
PAHZZ	5310-974-6642	WASHER, LOCK MS35338-148 (96906)	EA	4				*	*	*	*	*	E-1	MP87H4
PAHZZ	5305-943-2092	BOLT, HEXAGON HEAD MS35307-468 (96906)	EA	1				*	*	*	*	*	E-1	MP91
PAHZZ	5310-764-6609	NUT, PLAIN HEXAGON MS51971-7 (96906)	EA	2				*	*	*	*	*	E-1	MP91H2
PAHZZ	5310-614-3505	WASHER, FLAT MS15795-820 (96906)	EA	1				*	*	*	*	*	E-1	MP91H2
PAHZZ	5310-937-0453	WASHER, LOCK MS35338-145 (96906)	EA	1				*	*	*	*	*	E-1	MP91H2
MDDZZ		BOLT, SHOULDER SMC627339 (80063)	EA	1									E-1	MP17
PADZZ	5310-913-8881	NUT, PLAIN HEXAGON MS51971-3 (96906)	EA	1							*	*	E-1	MP17 H1
PADZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	1							*	*	E-1	MP17H1
PADZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	1							*	*	E-1	MP17H1
MDDZZ		BOLT, SHOULDER SMC627340 (80063)	EA	1									E-1	MP18
PADZZ	5310-913-8881	NUT, PLAIN HEXAGON MS51971-3 (96906)	EA	1							*	*	E-1	MP18H1
PADZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	1							*	*	E-1	MP18H1
PADZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	1							*	*	E-1	MP18H1
PAOZZ		BRACKET, PANEL STOWAGE SMC627386 (80063)	EA	2	*	*	*	*	*	*	*	*	E-1	A9
PAOZZ		INSERT, HELICAL COIL MS122123 (96906)	EA	2	*	*	*	*	*	*	*	*	E-1	A9MP1
PAOZZ		BRACKET, PANEL STOWAGE SMC627387 (80063)	EA	2	*	*	*	*	*	*	*	*	E-1	MP92
MDDDL		BRACKET, PANEL STOWAGE SMC627438 (80063)	EA	1	*	*	*	*	*	*	*	*	E-1	MP94

SECTION II REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100		FIG NO	REF DES
PADZZ	5305-207-8253	BOLT, HEXAGON HEAD MS35307-308 (96906)	EA	4							*	*	MP94 H4
PADZZ	5310-903-5966	NUT, PLAIN HEXAGON MS51971-1 (96906)	EA	4							*	*	MP94 H4
PADZZ	5310-582-5677	WASHER, FLAT MS15795-810 (96906)	EA	4							*	*	MP94 H4
PADZZ	5310-933-8121	WASHER, LOCK MS35338-139 (96906)	EA	4							*	*	MP94 H4
MDDDL		BRACKET, PANEL STOWAGE SMD627474 (80063)	EA	1									A47
PADZZ	5305-207-8253	BOLT, HEXAGON HEAD MS35307-308 (96906)	EA	4							*	*	A47H4
PADZZ	5310-903-5966	NUT, PLAIN HEXAGON MS51971-1 (96906)	EA	4							*	*	A47H4
PADZZ	5310-582-5677	WASHER, FLAT MS15795-810 (96906)	EA	4							*	*	A47H4
PADZZ	5310-933-8121	WASHER, LOCK MS35338-139 (96906)	EA	4							*	*	A47H4
PADZZ		INSERT, HELICAL COIL MS122123 (96906)	EA	4							*	*	A47H4
MDDDL		CATCH ASSEMBLY, ERECTING SHAFT SMD627310 (80063)	EA	2									A6
PADZZ	5305-021-3740	BOLT, HEXAGON HEAD MS35307-364 (96906)	EA	8							*	*	A6H4
PADZZ	5315-200-3183	PIN, SPRING MS171598 (96906)	EA	4							*	*	A6H2
XBDZZ		WASHER, BEVEL SLOTTED		8									A6H4
PADZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	8								*	A6H4
PADZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	8							*	*	A6H4
MDDZZ		CHANNEL, MOUNTING AFT SMC627382 (80063)	EA	3									MP25
PADZZ	5305-021-3740	BOLT, HEXAGON HEAD MS35307-364 (96906)	EA	6							*	*	MP25H6
PADZZ	5310-913-8881	NUT, HEXAGON MS51971-3 (96906)	EA	6							*	*	MP25H6
PADZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	6							*	*	MP25H6
PADZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	6							*	*	MP25H6
MDDDZ		CHANNEL, MOUNTING FORWARD SMC627381 (80063)	EA	3								E-1	MP22
PADZZ	5305-021-3740	BOLT, HEXAGON HEAD MS35307-364 (96906)	EA	6							*	*	E-1 MP22H6
PADZZ	5310-913-8881	NUT, HEXAGON MS51971-3 (96906)	EA	6							*	*	MP22H6

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP QNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
PADZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	6							*	*	E-1	MP22 H6
PADZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	6							*	*	E-1	MP22 H6
MDDZZ		CLAMP, ADJUSTING SMC627401 (80063)	EA	1									E-1	MP30
PAOZZ		CLAMP, GROUND 8405H (73569)	EA	1	*	*	*	*	*	*	*	*	E-1	MP95
MDDZZ		CLEVIS, ROD END SMC627314 (80063)	EA	1									E-1	MP124
PADZZ	5305-139-7071	BOLT, HEXAGON HEAD MS35307-420 (96906)	EA	1							*	*	E-1	MP124 H1
PADZZ	5310-768-0321	NUT, HEXAGON MS51971-5 (96906)	EA	1							*	*	E-1	MP124 H1
PADZZ	5310-543-2862	WASHER, FLAT MS15795-818 (96906)	EA	1							*	*	E-1	MP124 H1
PADZZ	5310-933-8778	WASHER, LOCK MS35338-143 (96906)	EA	1							*	*	E-1	MP124 H1
MDDZZ		CLEVIS, ROD END SMC627321 (80063)	EA	1									E-1	MP3
PADZZ	5305-139-707	BOLT, HEXAGON HEAD MS35307-420 (96906)	EA	1							*	*	E-1	MP3H1
PADZZ	5310-768-0321	NUT, HEXAGON MS51971-5 (96906)	EA	1							*	*	E-1	MP3H1
PADZZ	5310-543-2862	WASHER, FLAT MS15795-818 (96906)	EA	1							*	*	E-1	MP3H1
PADZZ	5310-933-8778	WASHER, LOCK MS35338-143 (96906)	EA	1							*	*	E-1	MP3H1
PAFZZ	5340-823-9563	CLEVIS, WIRE ROPE 3T480-5-16 (39428)	EA	2	*	*	*	*	*	*	*	*	E-1	MP57
PAFZZ		CORD ASSEMBLY, WIRE CL73KA12-0 (99862)	EA	4	*	*	*	*	*	*	*	*	E-1	MP96
PAFZZ	5305-050-9229	SCREW, MACHINE MS51957-63 (96906)	EA	4	*	*	*	*	*	*	*	*	E-1	MP96H4
PAFZZ	5310-883-9384	WASHER, FLAT MS15795-842 (96906)	EA	4	*	*	*	*	*	*	*	*	E-1	MP96H4
PAFZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	4	*	*	*	*	*	*	*	*	E-1	MP96H4
PAFZZ		CORD ASSEMBLY, WIRE CL73KA6-0 (99862)	EA	1	*	*	*	*	*	*	*	*	E-1	MP100
PAFZZ	5305-050-922	SCREW, MACHINE MS51957-63 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	MP100H1
PAFZZ	5310-883-9384	WASHER, FLAT MS15795-842 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	MP100H1
PAFZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	MP100H1
PAFZZ		CORD ASSEMBLY, WIRE CL73KA8-0 (99862)	EA	2	*	*	*	*	*	*	*	*	E-1	MP101

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
PAFZZ	5305-050-9229	SCREW, MACHINE MS51957-63 (96906)	EA	2	*	*	*	*	*	*	*	*	E-1	MP101 H2
PAFZZ	5310-833-9384	WASHER, FLAT MS15795-842 (96906)	EA	2	*	*	*	*	*	*	*	*	E-1	MP101 H2
PAFZZ	5310-933-8210	WASHER, LOCK MS35338-138 (96906)	EA	2	*	*	*	*	*	*	*	*	E-1	MP101 H2
PAFZZ	4920-713-5981	DISC DIAL AND VERNIER AW3 (00141)	EA	1	*	*	*	*	*	*	*	*	E-1	MP55
PAFZZ	5305-576-5417	BOLT, HEXAGON HEAD MS35307-360 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	MP55H1
PAFZZ	5305-054-5651	SCREW, MACHINE MS51957-17 (96906)	EA	2	*	*	*	*	*	*	*	*	E-1	MP55H2
PAFZZ	5310-782-1349	WASHER, FLAT MS15795-804 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	MP55H1
PAFZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	MP55H1
PAFZZ	5310-933-8118	WASHER, LOCK MS35338-135 (96906)	EA	2	*	*	*	*	*	*	*	*	E-1	MP55H2
PAFZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	MP55H1
MDFZZ		DISC DIAL AND VERNIER MODIFIED SMC627459 (80063)	EA	1									E-1	A48
PAFZZ	5305-576-5417	BOLT, HEXAGON HEAD MS35307-360 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	A48H1
PAFZZ	5305-054-5647	SCREW, MACHINE MS51957-13 (96906)	EA	3	*	*	*	*	*	*	*	*	E-1	A48H3
PAFZZ	5305-054-5651	SCREW, MACHINE MS51957-17 (96906)	EA	2	*	*	*	*	*	*	*	*	E-1	A48H2
PAFZZ	5310-782-1349	WASHER, FLAT MS15795-804 (96906)	EA	5	*	*	*	*	*	*	*	*	E-1	A48H5
PAFZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	A48H1
PAFZZ	5310-933-8118	WASHER, LOCK MS35338-135 (96906)	EA	5	*	*	*	*	*	*	*	*	E-1	A48H5
PAFZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	A48H1
PAFZZ	4920-713-5981	DISC DIAL AND VERNIER AW3 (00141)	EA	1	*	*	*	*	*	*	*	*	E-1	A48MP1
MDFZZ		FOOT, OUTRIGGER SMD627398 (80063)	EA	4									E-1	MP73
MFFZZ		GASKET, WAVEGUIDE BRACKET SMD627365-6 (80063)	EA	1									E-1	MP105
MFFZZ		GASKET, WAVEGUIDE BRACKET SMD627365-7 (80063)	EA	2									C-1	MP103
ADODL		HORN, WAVEGUIDE SMD627304 (80063)	EA	1									E-1	A1
MDDZZ		INSULATOR SMC627436-1 (80063)	EA	1									E-1	MP109

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
MDDZZ		INSULATOR SMC627436-2 (80063)	EA	1									E-1	MP110
MDDZZ		INSULATOR SMC627441-1 (80063)	EA	1									E-1	MP111
MDDZZ		INSULATOR SMC627441-2 (80063)	EA	2									E-1	MP112
PADZZ		JACK, MECHANICAL RATCHETING SMC627455 (80063)	EA	1							*	*	E-1	A49
PAOZZ	5340-811-0951	KNOB CL44SBH (99862)	EA	1	*	*	*	*	*	*	*	*	E-1	MP53
PAOZZ	5315-044-5864	PIN, COTTER MS9245-28 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	MP53H1
XBHZZ		KNOB		1									E-1	A50
PAHZZ	5315-209-6910	PIN, SPRING MS171504 (96906)	EA	1				*	*	*	*	*	E-1	A50H1
PAOZZ	5340-811-0951	KNOB CL44SBH (99862)	EA	1	*	*	*	*	*	*	*	*	E-1	A50MP1
MDDZZ		MOUNTING PLATE ASSEMBLY, REFLECTOR. SMD627347 (80063)	EA	1									E-1	A8
PAOZZ		OUTRIGGER SECTION SMD627397 (80063)	EA	4	*	*	*	*	*	*	*	*	E-1	MP69
PAOZZ		OUTRIGGER SECTION SMD627395 (80063)	EA	4	*	*	*	*	*	*	*	*	E-1	A51
XBOZZ		HAIRPIN, COTTER		1									E-1	A51MP2
MDOZZ		ROD, STOP SMC627420 (80063)	EA	1									E-1	A51MP1
PAOZZ	5985-930-1246	PIN, OUTRIGGER SMC627399-1 (80063)	EA	4	*	*	*	*	*	*	*	*	E-1	A23
XBOZZ		HAIRPIN, COTTER		4									E-1	A23H1
PAOZZ	5315-984-7446	PIN, SPRING MS9048-240 (96906)	EA	1	*	*	*	*	*	*	*	*	E-1	A23MP2
PAOZZ	5985-764-1051	PIN, OUTRIGGER SMC627399-2 (80063)	EA	8	*	*	*	*	*	*	*	*	E-1	A27
PAOZZ	5315-984-7446	PIN, SPRING MS9048-240	EA	1	*	*	*	*	*	*	*	*	E-1	A27MP2
XBOZZ		HAIRPIN, COTTER		8									E-1	A27H1
PAOZZ	5340-003-9491	PIN, QUICK RELEASE CL6DEP1-0S (99862)	EA	1	*	*	*	*	*	*	*	*	E-1	MP61
PAOZZ	5340-003-4044	PIN, QUICK RELEASE CL8DEP4-8S (99862)	EA	2	*	*	*	*	*	*	*	*	E-1	MP65
PAOZZ	5340-922-2207	PIN, QUICK RELEASE CL8DEP6-3S (99862)	EA	2	*	*	*	*	*	*	*	*	E-1	MP63
PAOZZ	5340-922-2346	PIN, QUICK RELEASE CL6DEP4-0S (99862)	EA	2	*	*	*	*	*	*	*	*	E-1	MP67

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT Alw Per 100 EQUIP	ILLUSTRATION FIG NO	ILLUSTRATION REF DES
					1-20	21-50	51-100	1-20	21-50	51-100				
MDOZZ		PIN, STRAIGHT HEADLESS SMC627330 (80063)	EA	1									-	MP8
XBOZZ		HAIRPIN, COTTER	EA	2									-	MP8H2
MDDZZ		PLATE, IDENTIFICATION SMC627383 (80063)	EA	1									-	MP28
PADZZ	5305-050-9229	SCREW, MACHINE MS51957-63 (96906)	EA	4									-	MP28H4
PADZZ	5310-883-9384	WASHER, FLAT MS15795-842 (96906)	EA	4							*	*		MP28H4
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	4							*	*	-	MP28H4
MDDZZ		PLATE, INSTRUCTION SMC627355 (80063)	EA	1									-	MP114
PADZZ	5305-050-9229	SCREW, MACHINE MS51957-63 (96906)	EA	4							*	*	-	MP114 H4
PADZZ	5310-883-9334	WASHER, FLAT MS15795-842 (96906)	EA	4							*	*	-	MP114 H4
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	4							*	*	-	MP114 H4
MDDZZ		PLATE, MOUNTING DIAL SMC627337 (80063)	EA	1									-	MP15
MDDZZ		PLATE, SPACER SMC627325 (80063)	EA	2									-	MP4
MDDZZ		PLATE, VERTEX SUBASSEMBLY SMD627342 (80063)	EA	1									-	MP20
PAODL	5985-764-1083	REFLECTOR SECTION, ANTENNA SMD627306 (80063)	EA	4	*	*	*	*	*	*	*	*		A11
MDDZZ		ROD, THREADED BRAZED SMC627328 (80063)	EA	1									-	MP6
PADZZ	5310-903-1524	NUT, HEXAGON MS51972-3 (96906)	EA	1							*	*	-	MP6H1
PADZZ	5315-044-5864	PIN, COTTER MS9245-2 (96906)	EA	1							*	*	-	MP6H1
XBDZZ		WASHER, FLAT	EA	1									-	MP6H1
MDDZZ		ROD, THREADED END SMC627329 (80063)	EA	1									-	MP7
PADZZ	5315-209-6910	PIN, SPRING MS171504 (96906)	EA	1							*	*	-	MP7H1
MDDZZ		SHAFT, CABLE SMD627341 (80063)	EA	1									E-1	MP19
XBBZZ		HAIRPIN, COTTER		2									E-1	MP19H2
PAOZZ		SHAFT, EXTENSION SMD627338 (80063)	EA	1	*	*	*	*	*	*	*	*	E-1	MP16
MDDZZ		SHAFT, STRAIGHT SMD627336 (80063)	EA	1									E-1	MP14

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATIO	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
PADZZ	5315-843-6971	PIN, SPRING MS171668 (96906)	EA	1							*	*	E-1	MP14 H1
MDDZZ		SPACER SET SMC627331-1 (80063)	EA	V									E-1	MP10
MDDZZ		SPACER SET SMC627331-2 (80063)	EA	V									E-1	MP11
PAOZZ		STRAP, WEBBING SMC627425 (80063)	EA	4	*	*	*	*	*	*	*	*	E-1	MP120
PAOZZ		STRAP, WEBBING PCS1X24 (70007)	EA	1	*	*	*	*	*	*	*	*	E-1	MP115
XBDZZ		STRIP, RUBBER		2									E-1	MP117
PAOZZ		SUPPORT ASSEMBLY SMC627309 (80063)	EA	1	*	*	*	*	*	*	*	*	E-1	A4
MDOHH		TARPAULIN, MODIFIED SMC627422 (80063)	EA	1									E-1	MP119
MDDDL		TOWER SMD627303 (80063)	EA	1									E-1	A2
PADZZ	5305-052-7495	BOLT, SOCKET HEAD MS16995-87 (96906)	EA	8							*	*	E-1	A2MP1
PADZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	8							*	*	E-1	A2MP6
PADZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	8							*	*	E-1	A2MP17
MDDDL		TRAILER, CAR M105A2 1 1/2 TON MOD SMD627305 (80063)	EA	1									E-1	A3
PADDL		WINCH, MODIFIED SMD627333 (80063)	EA	1							*	*	E-1	A19
PADZZ	5305-021-3806	BOLT, HEXAGON HEAD MS35307-413 (96906)	EA	4							*	*	E-1	A19H4
PADZZ	5310-768-0321	NUT, HEXAGON MS51971-5 (96906)	EA	4							*	*	E-1	A19H4
PADZZ	5310-543-2862	WASHER, FLAT MS15795-818 (96906)	EA	4							*	*	E-1	A19H4
PADZZ	5310-933-8778	WASHER, LOCK MS35338-143 (96906)	EA	4							*	*	E-1	A19H4
XBDZZ		WIRE ROPE	EA	2									E-1	MP59

SECTION II REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr. Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
PAOZZ	4030-0041596	ANCHOR, GROUND ARROWHEAD SMC627423 (80063)	EA	8	*	*	*	*	*	*	*	*	E-2	A35
XAOZZ		ANCHOR, ARROWHEAD		1									E-2	A35MP1
XAOZZ		SPLICING SLEEVE		2									E-2	A35MP2
XAOZZ		THIMBLE, ROPE		1									E-2	A35MP4
XAOZZ		WIRE ROPE		1									E-2	A35MP6
PAOZZ		GUY ASSEMBLY, GROUND ANCHOR SMC627421 (80063)	EA	4	*	*	*	*	*	*	*	*	E-2	A15
PAOZZ		SHACKLE 1-2TY4CL1RRC271 (81349)	EA	1	*	*	*	*	*	*	*	*	E-2	MP9
PAOZZ		SHACKLE 5-8TY4CL1RRC271 (81349)	EA	1	*	*	*	*	*	*	*	*	E-2	MP6
XAOZZ		SPLICING SLEEVE		2									E-2	A15MP2
XAOZZ		THIMBLE, ROPE		2									E-2	A15MP4
XAOZZ		TURNBUCKLE		1									E-2	A15MP8
XAOZZ		WIRE ROPE		1									E-2	A15MP5
PAOZZ	5120-243-2957	HAMMER, HAND TYPEXGGGH86 (81349)	EA	1	*	*	*	*	*	*	*	*	E-2	MP106
XAOZZ		HANDLE, HOLDING		1									E-2	MP107
XAOZZ		HEAD, DRIVING		1									E-2	MP108
PAOZF		JACK, HYDRAULIC JHL1-5 (26592)	EA	1	*	*	*	*	*	*	*	*	E-2	A20
PAOZZ		ROD, DRIVING SMC627463 (80063)	EA	1	*	*	*	*	*	*	*	*	E-2	MP115
PAOZZ		ROD, GROUND SMC627429 (80063)	EA	1	*	*	*	*	*	*	*	*	E-2	A22
PAOZZ		CLAMP, GROUND 8405H (73569)	EA	1	*	*	*	*	*	*	*	*	E-2	A22MP1
XAOZZ		WIRE ROPE, PHOS BRONZE		1									E-2	A22MP3
PAOZZ	5120-188-8450	SHOVEL SIZE 2 (81349)	EA	1	*	*	*	*	*	*	*	*	E-2	MP13
PAOZZ		STAKE, FOOTPAD SMC627431 (80063)	EA	4	*	*	*	*	*	*	*	*	E-2	MP39
MDOZZ		SUPPORT, WAVEGUIDE SMC627430 (80063)	EA	1									E-2	MP21

SECTION II REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
AFOFF	6150-768-9433	CABLE ASSEMBLY, POWER SMC627406 (80063)	EA	1									E-3	W1
PAFZZ	5935-832-7324	ADAPTER, CABLE SEALING 10-101333-141 (77820)	EA	2	*	*	*	*	*	*	*	*	E-3	W1MP1
XAFZZ		CABLE, 600V		1									E-3	W1MP3
PAFZZ	5935-801-5158	CONNECTOR, PLUG STRAIGHT 10-107614-9S (77820)	EA	1	*	*	*	*	*	*	*	*	E-3	W1J2
PAFZZ	5935-774-4485	CONNECTOR, PLUG STRAIGHT 10-107614-10S (77820)	EA	1	*	*	*	*	*	*	*	*	E-3	W1J1

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
MDFZZ		BAR, PANEL STOWAGE SMD627385 (80003)	EA	1									-	A44 MP1
PAFZZ		CORD ASSEMBLY, WIRE CL73KA6-0 (99862)	EA	4	*	*	*	*	*	*	*	*	-	A44 MP2
PAFZZ	5310-934-9765	NUT, PLAIN HEXAGON MS35650-304 (96906)	EA	2	*	*	*	*	*	*	*	*	-	A44 MP2H2
PAFZZ		SCREW, MACHINE MS51958-71 (96906)	EA	2	*	*	*	*	*	*	*	*	-	A44 MP2H2
PAFZZ	5310-595-6772	WASHER, FLAT MS15795-808 (96906)	EA	2	*	*	*	*	*	*	*	*	-	A44 MP2H2
PAFZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	2	*	*	*	*	*	*	*	*	-	A44MP 2H2
PAFZZ	5340-922-2220	PIN, QUICK RELEASE CL6DEP1-3S (99862)	EA	4	*	*	*	*	*	*	*	*	-	A44MP6

SECTION II REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-yr. Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
MDDZZ		BASE, CATCH SMD627311 (80063)	EA	1									F-5	A6A1
PADZZ	3120-182-8073	BEARING, PLAIN CYLINDRICAL B1012-5 (71041)	EA	2							*	*	E-5	A6MP3
MDDZZ		EYE BOLT SMC627452 (80063)	EA	1									E-5	A6A2
PADZZ		NUT, KNURLED CLIKN (99862)	EA	1							*	*	E-5	A6A2H1
PADZZ	5315-234-1856	PIN, COTTER MS24665-155 (96906)	EA	1							*	*	E-5	A6A2H1
PADZZ	5313-687-5042	PIN, SPRING MS171724 (96906)	EA	1							*	*	E-5	A6A2H1
PADZZ	5306-003-1751	EYE BOLT CL37EB (99862)	EA	1							*	*	E-5	A6A2 MP1
MDDZZ		CATCH, SWING SMD627312 (80063)	EA	1									E-5	A6MP1
PADZZ	5315-058-9816	PIN, SPRING MS171664 (96906)	EA	1							*	*	E-5	A6MP5
MDDZZ		PIN, STRAIGHT HEADLESS SMD627313 (80063)	EA	1									E-5	A6MP2
PADZZ		SETSCREW MS51021-72 (96906)	EA	1							*	*	E-5	A6MP4

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
MDDZZ		BRACKET, EYE WAVEGUIDE HORN SMC627379 (80063)	EA	2									E-6	A1MP9
PADZZ	5310-050-6646	NUT, SELF LOCKING MS17830-6C (96906)	EA	2							*	*	E-6	A1MP9 H1
PADZZ	5310-595-8057	WASHER, FLAT MS15795-815 (96906)	EA	2							*	*	E-6	A1MP9 H1
PADZZ	5310-824-1101	WASHER, NONMETALLIC SMC627380 (80063)	EA	2							*	*	E-6	A1MP9 H1
MDDZZ		BRACKET, HORN MOUNTING SMD627371 (80063)	EA	1									E-6	A1MP4
PADZZ	5305-207-8253	BOLT, HEXAGON HEAD MS35307-308 (96906)	EA	4							*	*	E-6	A1MP4 H4
PADZZ	5310-241-6604	NUT, SELFLOCKING MS17830-4C (96906)	EA	4							*	*	E-6	A1MP4 H4
PADZZ	5310-582-5677	WASHER, FLAT MS15795-810 (96906)	EA	8							*	*	E-6	A1MP 4H4
AFOFF	6150-764-9255	CABLE ASSEMBLY, POWER SMC627378 (80063)	EA	1									E-6	A1W1
PAFZZ	5310-934-9761	NUT, PLAIN HEXAGON MS35649-264 (96906)	EA	2	*	*	*	*	*	*	*	*	E-6	A1W1H2
PAFZZ	5305-068-6534	SCREW, MACHINE MS35233-31 (96906)	EA	2	*	*	*	*	*	*	*	*	E-6	A1W1H2
PAFZZ	5310-722-5998	WASHER, FLAT MS15795-805 (96906)	EA	4	*	*	*	*	*	*	*	*	E-6	A1W1H4
PAFZZ	5310-929-6395	WASHER, LOCK MS35338-136 (96906)	EA	2	*	*	*	*	*	*	*	*	E-6	A1W1H2
PAFZZ	5340-205-6302	CLAMP, LOOP MS21219DG5 (96906)	EA	1	*	*	*	*	*	*	*	*	E-6	A1MP11
PAFZZ	5305-021-3620	SCREW, MACHINE MS35234-63 (96906)	EA	1	*	*	*	*	*	*	*	*	E-6	A1MP11 H1
PAFZZ	5310-595-6772	WASHER, FLAT MS15795-808 (96906)	EA	1	*	*	*	*	*	*	*	*	E-6	A1MP11 H1
PAFZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	1	*	*	*	*	*	*	*	*	E-6	A1MP11 H1
MDOZZ		COVER ASSEMBLY, WG FLANGE SMC627376 (80063)	EA	2									E-6	A1A3
XBOZZ		THUMB SCREW, SHOULDER		4									E-6	A1A3H4
MDOZZ		DISK, RUBBER SMC627442 (80063)	EA	1									E-6	A1A3MP1
MDOZZ		PLATE, COVER WAVEGUIDE SMC627443 (80063)	EA	1									E-6	A1A3MP2
MDOZZ		GUARD, WAVEGUIDE SMC627368 (80063)	EA	1									E-6	A1MP2
PADZZ	5305-021-3620	SCREW, MACHINE MS35234-63 (96906)	EA	7							*	*	E-6	A1MP2 H7
PADZZ	5310-595-6772	WASHER, FLAT MS15795-808 (96906)	EA	7							*	*	E-6	A1MP2H7

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr. Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	7							*	*	E-6	A1MP2 H7
MDDDZ		GUARD, WAVEGUIDE SMD627369 (80063)	EA	1									E-6	A1MP1
PADZZ	5305-021-3620	SCREW, MACHINE MS35234-63 (96906)	EA	8							*	*	E-6	A1MP1 H8
PADZZ	5310-595-6772	WASHER, FLAT MS15795-808 (96906)	EA	8							*	*	E-6	A1MP1 H8
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	8							*	*	E-6	A1MP1 H8
MDDZZ		GUARD, WAVEGUIDE SMD627370 (80063)	EA	1									E-6	A1MP3
PADZZ	5305-021-3620	SCREW, MACHINE MS35234-63 (96906)	EA	6							*	*	E-6	A1MP3 H6
PADZZ	5310-595-6772	WASHER, FLAT MS15795-808 (96906)	EA	6							*	*	E-6	A1MP3 H6
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	6							*	*	E-6	A1MP3 H6
ADDDL		HORN AND WAVEGUIDE ASSEMBLY SMD627359 (80063)	EA	1									E-6	A1A1
MDOZZ		PROTECTIVE COVER, HORN ASSEMBLY SMC627372 (80063)	EA	1									E-6	A1A2

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr. Alw Per 100 EQUIP	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-up	1-20	21-50	51-up			FIG NO	REF DES
PAFZZ	5935-532-7324	ADAPTER, CABLE SEALING 10-101333-141 (77820)	EA	1	*	*	*	*	*	*	*	*	E-7	A1W1 MP2
XBFZZ		CABLE, 300V		1									E-7	A1W1 MP4
PAFZZ	5935-280-2200	CLAMP, CABLE MS3057-4B (96906)	EA	1	*	*	*	*	*	*	*	*	E-7	A1W1 MP3
PAFZZ	5935-539-2651	CONNECTOR, PLUG MS3106A10SL 4S (96906)	EA	1	*	*	*	*	*	*	*	*	E-7	A1W1P1
PAFZZ	5935-884-7581	CONNECTOR, RECEPTACLE JAM NUT 10-107314-9P (77820)	EA	1	*	*	*	*	*	*	*	*	E-7	A1W1J1
PAFZZ	5935-802-9459	COVER, PROTECTIVE RECEPTACLE 10-101048-14 (77820)	EA	1	*	*	*	*	*	*	*	*	E-7	A1W1 MP1

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr. Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
MDDZZ		BRACKET ASSEMBLY, WG SUPPORT SMD627364 (80063)	EA	3									E-8	A1A1A1
PADZZ	5305-879-2730	BOLT, HEXAGON HEAD MS35307-372 (96906)	EA	2							*	*	E-8	A1A1A1 H2
PADZZ	5310-050-6646	NUT, SELFLOCKING MS17830-6C (96906)	EA	2							*	*	E-8	A1A1A1 H2
PADZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	4							*	*	E-8	A1A1A1 H2
MDDZZ		BRACKET, WG SUPPORT SMD627367 (80063)	EA	1									E-8	A1A1A1 A1
MDDZZ		BRACKET, WG SUPPORT SMC627366 (80063)	EA	1									E-8	A1A1A1 A1MP1
MDDZZ		GASKET, WG BRACKET SMC627365-1 (80063)	EA	2									E-8	A1A1A1 MP1
MDDZZ		GASKET, WG BRACKET SMC627365-2 (80063)	EA	1									E-8	A1A1A1 MP3
MDDZZ		GASKET, WG BRACKET SMC627365-3 (80063)	EA	1									E-8	A1A1A1 MP4
MDDZZ		GASKET, WG BRACKET SMC627365-4 (80063)	EA	1									E-8	A1A1A1 MP5
MDDZZ		GASKET, WG BRACKET SMC627365-5 (80063)	EA	1									E-8	A1A1A1 MP6
MDDZZ		BRACKET ASSEMBLY, WG SUPPORT SMD627478 (80063)	EA	1									E-8	A1A1A4
MDDZZ		BRACKET, WAVEGUIDE SMD627465 (80063)	EA	1									E-8	A1A1A4 A1
PADZZ		INSERT, HELICAL COIL MS122163 (96906)	EA	1							*	*	E-8	A1A1A4 A1MP1
MDDZZ		GASKET, WG BRACKET SMC627365-1 (80063)	EA	2									E-8	A1A1A4 MP1
MDDZZ		GASKET, WG BRACKET SMC627365-2 (80063)	EA	1									E-8	A1A1A4 MP3
MDDZZ		GASKET, WAVEGUIDE BRACKET SMC627365-3 (80063)	EA	1									E-8	A1A1A4 MP4
MDDZZ		GASKET, WAVEGUIDE BRACKET SMC627365-4 (80063)	EA	1									E-8	A1A1A4 MP5
MDDZZ		GASKET, WAVEGUIDE BRACKET SMC627365-5 (80063)	EA	1									E-8	A1A1A4 MP6
MDDZZ		CLAMP, WAVEGUIDE SMC627377 (80063)	EA	1									E-8	A1A1MP6
MDDZZ		HANDLE, CLAMP SMC627403-2 (80063)	EA	1									E-8	A1A1MP7
PADZZ	5315-285-2731	PIN, SPRING MS171530 (96906)	EA	1							*	*	E-8	A1A1MP 7H1
PADZZ	5310-770-1958	WASHER, SPRING 3502-05-07-0554B (78189)	EA	1							*	*	E-8	A1A1MP 7H1
PADDL	5985-764-1050	HORN, WG DUAL POLARIZED SMD627360 (80063)	EA	1							*	*	E-8	A1A1E1

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr. Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
PADZZ	5330-809-3816	PACKING, PREFORMED MS90064-..o (96906)	EA	4							*	*	E-8	A1A1 MP5
PADZZ	5985-767-1757	WAVEGUIDE ASSEMBLY SMD627361 (80063)	EA	1							*	*	E-8	A1A1E2
PADZZ	5305-959-1909	SCREW, SOCKET HEAD CAP MS16996-11 (96906)	EA	8							*	*	E-8	A1A1E2 H8
ADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	8							*	*	E-8	A1A1E2 H8
PADDL	5985-764-1081	WAVEGUIDE ASSEMBLY SMD627362 (80063)	EA	1							*	*	E-8	A1A1E3
PADZZ	5305-959-1909	SCREW, SOCKET HEAD CAP MS16996-11 (96906)	EA	8							*	*	E-8	A1A1E3 H8
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	8							*	*	E-8	A1A1E3 H8
PADDL	5985-764-1075	WAVEGUIDE ASSEMBLY SMD627363-1 (80063)	EA	1							*	*	E-8	A1A1E4
PADZZ	5305-959-1909	SCREW, SOCKET HEAD CAP MS16996-11 (96906)	EA	8							*	*	E-8	A1A1E4 H8
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	8							*	*	E-8	A1A1E4 H8
PADDL	5995-764-1076	WAVEGUIDE ASSEMBLY SMD627363-2 (80063)	EA	1							*	*	E-8	A1A1E5
PADZZ	5305-959-1909	SCREW, SOCKET HEAD CAP MS16996-11 (96906)	EA	8							*	*	E-8	A1A1E5 H8
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	8							*	*	E-8	A1A1E5 H8

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr. Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
MDOZZ		COVER PLATE, HORN SMC627374 (80063)	EA	1									E-9	A1A2 MP1
XBOZZ		SCREW, THUMB SHOULDER		3									E-9	A1A2M P1H3
PADZZ	5310-883-9384	WASHER, FLAT MS15795-842 (96906)	EA	3							*	*	E-9	A1A2 MP1H3
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	3							*	*	E-9	A1A2 MP1H3
MDOZZ		PLATE, MOUNTING SMC627375 (80063)	EA	1									E-9	A1A2A1
PAOZZ	5340-597-3302	INSERT, HELICAL COIL MS124695 (96906)	EA	3	*	*	*	*	*	*	*	*	E-9	A1A2A1 MP1
MDOZZ		PLATE SMC627375-1 (80063)	EA	1									E-9	A1A2A1 MP4
MDOZZ		RUBBER STRIP, HORN COVER SMC627373 (80063)	EA	1									E-9	A1A2 MP2

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UN..	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
MDDZZ		BRACKET, MOUNTING REFLECTOR SMD627350 (80063)	EA	2									E-10	A8MP3
PADZZ	5305-988-7845	SCREW, MACHINE SOCKET HEAD MS16995-82 (96906)	EA	8							*	*	E-10	A8MP3 H8
PADZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	8							*	*	E-10	A8MP3 H5
PAFZZ		CORD ASSEMBLY, WIRE CL73KA8-0 (99862)	EA	4	*	*	*	*	*	*	*	*	E-10	A8MP26
PAFZZ	5305-059-3661	SCREW, MACHINE MS51958-65 (96906)	EA	4	*	*	*	*	*	*	*	*	E-10	A8MP26 H1
PAFZZ	5310-595-6772	WASHER, FLAT MS15795-808 (96906)	EA	4	*	*	*	*	*	*	*	*	E-10	A8MP26 H1
PAFZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	4	*	*	*	*	*	*	*	*	E-10	A8MP26 H1
PADZZ		LATCH, MODIFIED SMC627356 (80063)	EA	4							*	*	E-10	A8A2
PADZZ	5315-039-5563	PIN, SPRING MS171494 (96906)	EA	4							*	*	E-10	A8A2H1
PADZZ	5305-958-6517	SCREW, MACHINE MS16996-12 (96906)	EA	8							*	*	E-10	A8A2H2
PADZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	8							*	*	E-10	A8A2H2
XADZZ		LATCH		1									E-10	A8A2MP1
PADZZ	5315-209-6910	PIN, SPRING MS171504 (96906)	EA	1							*	*	E-10	A8A2MP2
PADZZ		LATCH, MODIFIED SMC627357 (80063)	EA	8							*	*	E-10	A8MP16
PADZZ	5310-245-3615	NUT, PLAIN HEXAGON MS35649-2314 (96906)	EA	16							*	*	E-10	A8MP16 H2
PADZZ	5305-763-7830	SCREW, MACHINE MS51959-98 (96906)	EA	16							*	*	E-10	A8MP16 H2
PADZZ	5310-974-6623	WASHER, LOCK MS35338-140 (96906)	EA	16							*	*	E-10	A8MP16 H2
MDDZZ		NUT, CONE SEAT ROUND SMC627354 (80063)	EA	4									E-10	A8MP30
PADZZ	5310-989-5953	NUT, HEXAGON JAM MS35691-11 (96906)	EA	4							*	*	E-10	A8MP30 H1
MDDZZ		NUT, FLAT SEAT ROUND SMC627358 (80063)	EA	8									E-10	A8MP34
PAFZZ	5340-922-2220	PIN, QUICK RELEASE CL6DEP1-58 (99362)	EA	4	*	*	*	*	*	*	*	*	E-10	A8MP42
MDDDL		PLATE AND GUSSET ASSEMBLY SMD627353 (80063)	EA	1									E-10	A8A1
MDDDL		RING, MOUNTING REFLECTOR SMD627348 (80063)	EA	1									E-10	A8MP1
PADZZ	5310-477-6768	NUT, HEXAGON MS35649-2384 (96906)	EA	4							*	*	E-10	A8MP4 H4

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100	CNTGY		FIG NO	REF DES
PADZZ	5305-988-7845	SCREW, MACHINE MS16995-82 (96906)	EA	4							*	*	E-1	A8MP1 H4
PADZZ	5305-226-7238	SCREW, MACHINE MS16995-84 (96906)	EA	4							*	*	E-1	A8MP1 H4
PADZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	4							*	*	E-1	A8MP1 H4
PADZZ	5310-984-7042	WASHER, LOCK MS35338-141 (96906)	EA	8							*	*	E-1	A8MP1 H4
PADZZ	5305-928-2367	SETSCREW MS51021-86 (96906)	EA	2							*	*	E-1	A8MP14

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100	CNTGY		FIG NO	REF DES
MDDZZ		GUSSET NO 1 REFLECTOR SMC627351 (80063)	EA	4									E-11	A8A1 MP1
PADZZ	5305-763-7830	SCREW, MACHINE MS51959-98 (96906)	EA	12							*	*	E-11	A8A1 MP1H3
MDDZZ		GUSSET NO 2 REFLECTOR SMD627352 (80063)	EA	1									E-11	A8A1 MP5
PADZZ	5305-763-7830	SCREW, MACHINE MS51959-98 (96906)	EA	6							*	*	E-11	A8A1 MP5H6
MDDDL		PLATE, MOUNTING REFLECTOR SMD627349 (80063)	EA	1									E-11	A8A1 MP6

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr Alw Per 100 EQUIP	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION FIG NO	ILLUSTRATION REF DES
					1-20	21-50	51-100	1-20	21-50	51-100	CNTGY			
PAHZZ		BRACKET, EYE REFLECTOR SECTION SMC627315 (80063)	EA	1				*	*	*	*	*	E-12	A11MP11
PAHZZ	5305-021-3620	BOLT, HEXAGON HEAD MS35307-307 (96906)	EA	2				*	*	*	*	*	E-12	A11MP11H2
PAHZZ	5310-241-6604	NUT, SELFLOCKING MS17830-4C (96906)	EA	2				*	*	*	*	*	E-12	A11MP11H2
PAHZZ	5310-531-9515	WASHER, FLAT AN960C416 (88044)	EA	2				*	*	*	*	*	E-12	A11MP11H2
MDDZZ		CLAMP SMC627440 (80063)	EA	1									E-12	A11MP23
MDDZZ		CLAMP, HANDLE SMC627403-1 (80063)	EA	3									E-12	A11MP1
PADZZ	5315-285-2731	PIN, SPRING MS171530 (96906)	EA	3							*	*	E-12	A11MP1H1
PADZZ	5310-770-1956	WASHER, SPRING 3502-05-07-0554B (78189)	EA	3							*	*	E-12	A11MP1H1
MDDZZ		CLAMP, HANDLE SMC627403-2 (80063)	EA	1									E-12	A11MP22
PADZZ	5315-285-2731	PIN, SPRING MS171530 (96906)	EA	1							*	*	E-12	A11MP22H1
PADZZ	5310-770-1956	WASHER, SPRING 3505-05-07-0554B (78189)	EA	1							*	*	E-12	A11MP22H1
MDDZZ		HANDLE, REFLECTOR SEGMENT SMC627416 (80063)	EA	2									E-12	A11MP18
PADZZ	5320-117-6829	RIVET, SOLID UNIVERSAL HEAD MS20470AD4-7 (96906)	EA	6							*	*	E-12	A11MP18H3
MDDZZ		HUB, HANDLE SMC627404 (80063)	EA	3									E-12	A11MP4
PADZZ	5315-285-2731	PIN, SPRING MS171530 (96906)	EA	3							*	*	E-12	A11MP1H1
MDDZZ		LATCH, CLAMP SMC627408 (80063)	EA	3									E-12	A11MP12
MDDZZ		RIVET CLAMP SMC627411 (80063)	EA	3									E-12	A11MP12H1
PADZZ	5310-582-5677	WASHER, FLAT MS15795-810 (96906)	EA	3							*	*	E-12	A11MP12H1
PADZZ	5315-980-2840	PIN, SPRING MS171744 (96906)	EA	1							*	*	E-12	A11MP15
MDDZZ		PLUNGER SMC627419 (80063)	EA	1									E-12	A11MP21
MDDZZ		SCREW, CLAMP SMC627405 (80063)	EA	3									E-12	A11MP7
PADZZ		SPRING C0360-026-0500S (70472)	EA	1							*	*	E-12	A11MP16
MDDZZ		SWIVEL BLOCK SMC627412 (80063)	EA	1									E-12	A11MP17

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr. Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
PAOZZ	5305-021-3740	BOLT, HEXAGON HEAD MS35307-364 (96906)	EA	1	*	*	*	*	*	*	*	*	E-13	A4MP2
PAOZZ		CORD ASSEMBLY, WIRE CL73KA6-0 (99864)	EA	1	*	*	*	*	*	*	*	*	E-13	A4MP5
PAOZZ	5305-050-9229	SCREW, MACHINE MS51957-63 (96906)	EA	1	*	*	*	*	*	*	*	*	E-13	A4MP5 H1
PAOZZ	5310-595-6772	WASHER, FLAT MS15795-808 (96906)	EA	1	*	*	*	*	*	*	*	*	E-13	A4MP5 H1
PAOZZ	5310-933-8120	WASHER, LOCK MS35338-138 (96906)	EA	1	*	*	*	*	*	*	*	*	E-13	A4MP5 H1
XBOZZ		NUT, PLAIN WING		1									E-13	A4MP1
PAOZZ	5340-003-9491	PIN, QUICK RELEASE CL6DEP1-0S (99862)	EA	1	*	*	*	*	*	*	*	*	E-13	A4MP4
XAOZZ		SUPPORT, ANTENNA		1									E-13	A4MP6
PAOZZ	5310-773-7618	WASHER, FLAT MS15795-814 (96906)	EA	1	*	*	*	*	*	*	*	*	E-13	A4MP3

*

SECTION II REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr. Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
XBOZZ		RUBBER, SPECIAL		1									E-14	A3MP1
		TRAILER, CARGO M105A2 1 1/2 TON MS500013 (81349)	EA	1									E-14	A3MP2
PAHZZ	5210-900-8672	VIAL, LEVEL LW34V4 (57068)	EA	4	*	*	*	*	*	*	*	*	E-14	A3MP3
PAHZZ	5305-054-6671	SCREW, MACHINE MS51957-46 (96906)	EA	8	*	*	*	*	*	*	*	*	E-14	A3MP3 H2

SECTION II. REPAIR PARTS LIST

SMR CODE	FEDERAL STOCK NUMBER	DESCRIPTION	UNIT OF MEAS	QTY INC IN UNIT	30-DAY DS MAIN ALLOWANCE			30-DAY GS MAIN ALLOWANCE			1-Yr. Alw Per 100 EQUIP CNTGY	DEPOT MAIN Alw Per 100 EQUIP	ILLUSTRATION	
					1-20	21-50	51-100	1-20	21-50	51-100			FIG NO	REF DES
PADDL		BRAKE, MODIFIED SMC627346 (80063)	EA	1							*	*	E-15	A19A1
XADDL		BRAKE ASSEMBLY		1									E-15	A19A1 MP2
MDDZZ		FIN, DOWEL SMD627345 (80063)	EA	1									E-15	A19A1 MP1

Section III. INDEX - FEDERAL STOCK NUMBER, CROSS REFERENCE TO FIGURE AND REFERENCE DESIGNATION

Stock Number	Figure No.	Ref. Des.
3120-182-8073	E- 5	A6MP3
4030-004-1596	E- 2	A35
4920-713-5981	E- 1	A48MP1
	E- 1	MP55
5120-188-8450	E- 1	A45MP1
5120-243-2957	E- 2	MP106
5210-900-8672	E- 14	A3MP*
5305-021-3620	E- 6	A1MP1H8
	E- 6	A1MP2H7
	E- 6	A1MP3H6
	E- 6	A1MP11H1
	E- 12	A11MP11H2
5305-021-3740	E 13	A4MP2
	E- 1	A6H4
	E- 1	MP22H6
	E- 5	MP25H6
5305-021-3806	E- 1	A19H4
	E- 1	MP50H4
	E- 1	MP77H8
5305-021-3836	E- 1	MP1H4
5305-050-9229	E- 13	A4MP5H1
	E- 1	MP28H4
	E- 1	MP96H4
	E- 1	MP100H1
	E- 1	MP101H2
	E- 1	MP114H4
5305-052-7495	E- 1	A2MP1
5305-054-5647	E- 1	A48H3
	E- 1	A48H2
5305-054-5651	E- 1	MP55H1
5305-054-6671	E- 14	A3MP3H2
5305-059-3361	E- 10	A8MP26H1
5305-068-6534	E- 6	A1W1H2
5305-139-7071	E- 1	MP124H1
	E- 1	MP3H1
5305-207-8253	E- 6	A1MP4H4
	E- 1	A47H4
	E- 1	MP94H4
5305-226-7238	E- 10	A8MP1H4
5305-576-5417	E- 1	A48H1
	E- 1	MP55H1
5305-616-6375	E- 1	MP50H8
5305-682-5973	E- 5	A6MP4
5305-763-7830	E- 11	A8A1MP1H3
	E- 11	A8A1MP5H6
	E- 10	A8MP16H2
5305-879-2736	E- 8	A1A1A1H2
5305-928-2367	E- 10	A8MP14
5305-943-2092	E- 1	MP91
5303-958-6517	E- 10	A8A2H2
5305-959-1909	E- 8	A1A1E2H8
	E- 8	A1A1E3H8
	E- 8	A1A1E4H8
	E- 8	A1A1E5H8
5305-988-7845	E- 10	A8MP1H4
	E- 10	A8MP3H8
5306-003-1751	E- 5	A6A2MP1
5310-050-6646	E- 8	A1A1A1H2
	E- 6	A1MP9H1
5310-241-6604	E- 6	A1MP4H4
	E- 12	A11MP11H2
5310-245-3615	E- 10	A8MP16H2
5310-477-6768	E- 10	A8MP1H4
5310-531-9515	E- 12	A11MP11H2
5310-543-2500	E- 1	MP87H4
5310-543-2862	E- 1	A19H4
	E- 1	MP1H13
	E- 1	MP3H1
	E- 1	MP50H12
	E- 1	MP77H8
	E-	MP124H1
5310-582-5677	E- 6	A1MP4H4
	E- 12	A11MP12H1
	E- 1	A47H4
	E-	MP94H4
5310-959-6057	E- 6	A1MP3H1
5310-595-6772	E-	A1MP1H8
	E- 6	A1MP2H7
	E- 6	A1MP3H6
	E- 6	A1MP11H1
	E- 13	A4MP5H1
	E- 10	A8MP26H1
	E- 4	A44MP2H2
5310-614-3505	E- 1	MP91H2
5310-722-5998	E- 6	A1W1H4
5310-763-8927	E- 1	MP87H4
5310-764-6609	E- 1	MP91H2
5310-768-0321	E- 1	A19H4
	E- 1	MP1H13
	E- 1	MP3H1
	E- 1	MP50H12
	E- 1	MP77H8
	E- 1	MP124H1

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Stock Number	Figure No.	Ref. Des.
5310-770-1956	E- 8	A1A1MP7H1
	E- 12	A11MP1H1
	E- 12	A11MP22H1
5310-773-7618	E- 8	A1A1A1H2
	E- 1	A2MP9
	E- 13	A4MP3
	E- 1	A6H4
	E- 10	A8MP1H4
	E- 1	A48H1
	E- 1	MP17H1
	E- 1	MP18H1
	E- 1	MP22H6
	E- 1	MP25H6
	E- 1	MP55H1
5310-782-1349	E- 1	A4A8H1
	E- 1	MP55H1
5310-824-1101	E- 6	A1MP9H1
5310-883-9384	E- 9	A1A2MP1H3
	E- 1	MP28H4
	E- 1	MP96H4
	E- 1	MP100H1
	E- 1	MP101H2
	E- 1	MP114H4
5310-903-1524	E- 1	MP6H1
5310-903-5966	E- 1	A47H4
	E- 1	MP94H4
5310-913-8881	E- 1	MP17H1
	E- 1	MP18H1
	E- 1	MP22H6
	E- 1	MP25H6
5310-929-6395	E- 6	A1W1H2
5310-933-8118	E- 1	A48H5
	E- 1	MP55H2
5310-933-8120	E- 8	A1A1E2H8
	E- 8	A1A1E3H8
	E- 8	A1A1E4H8
	E- 8	A1A1E5H8
	E- 9	A1A2MP1H3
	E- 6	A1MP1H6
	E- 6	A1MP2H7
	E- 6	A1MP3H6
	E- 6	A1MP11H1
	E- 13	A4MP5H1
	E- 10	A8A2H2
	E- 10	A8MP26H1
	E- 4	A44MP2H2
	E- 1	MP28H4
	E- 1	MP96H2
5310-933-8121	E- 1	A47H4
	E- 1	MP94H4
5310-933-8778	E- 1	A19H4
	E- 1	MP1H9
	E- 1	MP3H1
	E- 1	MP50H12
	E- 1	MP77H8
	E- 1	MP124H1
5310-934-9761	E- 6	A1W1H2
5310-934-9765	E- 4	A44MP2H2
5310-937-0453	E- 1	MP91H2
5310-974-6623	E- 10	A8MP16H2
5310-974-6642	E- 1	MP87H4
5310-977-0078	E- 5	A6A2H1
5310-984-7042	E- 1	A2MP17
	E- 1	A6H4
	E- 10	A8MP1H4
	E- 10	A8MP3H8
	E- 1	A48H1
	E- 1	MP17H1
	E- 1	MP18H1
	E- 1	MP22H6
	E- 1	MP25H6
	E- 1	MP55H1
5310-989-5953	E- 10	A8MP30H1
5315-039-5563	E- 10	A8A2H1
5315-044-5864	E- 1	MP6H1
	E- 1	MP53H1
5315-058-9816	E- 5	A6MP5
5315-200-3183	E- 1	A6H2
5315-209-6910	E- 10	A8A2MP2
	E- 12	A11MP1H1
	E- 1	A50H1
	E- 1	MP7H1
5315-234-1856	E- 5	A6A2H1
5315-285-2731	E- 8	A1A1MP7H1
	E- 12	A11MP1H1
	E- 12	A11MP4H1
	E- 12	A1122H1
5315-687-5042	E- 5	A6A2H1
5315-813-6971	E- 1	MP14H1
5315-980-2840	E- 12	A11MP15
5315-984-7446	E- 1	A23MP2
	E- 1	A27MP2
	E- 1	MP100H1
	E- 1	MP101H2
	E- 1	MP114H4

Section III. INDEX - FEDERAL STOCK NUMBER, CROSS REFERENCE TO FIGURE AND REFERENCE DESIGNATION

Stock Number	Figure No.	Ref. Des.	Stock Number	Figure No.	Ref. Des.
5320-117-6829	E-12	A11MP18H3			
5330-809-3816	E- 8	A1A1MP5			
5340-003-4044	E- 1	MP65			
5340-003-9491	E-13	A4MP4			
	E- 1	MP61			
5340-205-6302	E- 6	A1MP11			
5340-597-3302	E- 9	A1A2A1MP1			
5340-811-0951	E- 1	A50MP1			
	E- 1	MP53			
5340-823-9563	E- 1	MP57			
5340-922-2207	E- 1	MP63			
5340-922-2220	E-10	A8MP42			
	E- 4	A44MP6			
5340-922-2346	E- 1	MP67			
5935-280-2200	E- 7	A1W1MP3			
5935-539-2651	E- 7	A1W1P1			
5935-774-4485	E- 3	W1J1			
5935-801-5158	E- 3	W1J2			
5935-802-9459	E- 7	A1W1MP1			
5935-832-7324	E- 7	A1W1MP2			
	E- 3	W1MP1			
5935-884-7581	E- 7	A1W1J1			
5985-153-7917	E- 1	1			
5985-764-1050	E- 8	A1A1E1			
5985-764-1051	E- 1	A27			
5985-764-1075	E- 8	A1A1E4			
5985-764-1076	E- 8	A1A1E5			
5985-764-1081	E- 8	A1A1E3			
5985-764-1083	E- 1	A11			
5985-767-1757	E- 8	A1A1E2			
5985-930-1246	E- 1	A23			
6150-764-9255	E- 6	A1W1			
6150-768-9433	E- 3	W1			

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Reference No.	Mfg. Code	Figure No.	Ref. Des.
AN960C416	88044	E-12	A11MP11H2
AW3	00141	E- 1	A48MP1
		E- 1	MP55
B1012-5	71041	E- 5	A6MP3
CL1KN	99862	E- 5	A6A2H1
CL37EB	99862	E- 5	A6A2MP1
CL44SBH	99862	E- 1	A50MP1
		E- 1	MP53
CL6DEP1-0S	99862	E-13	A4MP4
		E- 1	MP61
CL6DEP1-5S	99862	E-10	A8MP42
		E- 4	A44MP6
CL6DEP4-0S	99862	E- 1	MP67
CL73KA12-0	99862	E- 1	MP96
CL73KA6-0	99862	E-13	A4MP5
		E- 4	A44MP2
		E- 1	MP100
CL73KA8-0	99862	E-10	A8MP26
		E- 1	MP101
CL8DEP4-8S	99862	E- 1	MP65
CL8DEP6-3S	99862	E- 1	MP63
C0360-026-0500S	70472	E-12	A11MP16
FB810-4	71041	E- 1	A45MP1
JHL1-5	26592	E- 2	A20
LW34V4	57068	E-14	A3MP3
MS122123	96906	E- 1	A9MP1
		E- 1	A47H4
MS122163	96906	E- 8	A1A1A4A1MP1
MS124695	96906	E- 9	A1A2A1MP1
MS15795-804	96906	E- 1	A48H5
		E- 1	MP55H1
MS15795-805	96906	E- 6	A1W1H4
MS15795-808	96906	E- 6	A1MP1H8
		E- 6	A1MP2H7
		E- 6	A1MP3H6
		E- 6	A1MP11H1
		E-13	A4MP5H1
		E-10	A8MP26H1
		E- 4	A44MP2H2
MS15795-810	96906	E- 6	A1MP4H4
		E-12	A11MP12H1
		E- 1	A47H4
		E- 1	MP9H4
MS15795-814	96906	E- 8	A1A1A1H2
		E- 1	A2MP9
		E-13	A4MP3
		E- 1	A6H4
		E-10	A8MP1H4
MS15795-815	96906	E- 6	A1MP9H1
MS15795-818	96906	E- 1	A19H4
		E- 1	MP1H13
		E- 1	MP3H1
		E- 1	MP30H12
		E- 1	MP77H8
		E- 1	MP14H1
MS15795-820	96906	E- 1	MP91H2
MP15795-826	96906	E- 1	MP87H4
MS15795-842	96906	E- 9	A1A2MP1H3
		E- 1	MP28H4
		E- 1	MP96H2
		E- 1	MP100H1
		E- 1	MP101H2
		E- 1	MP114H4
MS16995-82	96906	E-10	A8MP1H4
		E-10	A8MP3H8
MS16995-84	96906	E-10	A8MP1H4
MS16995-87	96906	E- 1	A2MP1
MS16996-11	96906	E- 8	A1A1E2H8
		E- 8	A1A1E3H8
		E- 8	A1A1E4H8
		E- 8	A1A1E5H8
MS16996-12	96906	E-10	A8A2H2
MS171494	96906	E-10	A8A2H1
MS171504	96906	E-10	A8A2MP2
		E- 1	A50H1
		E- 1	MP7H1
MS171530	96906	E- 8	A1A1MP7H1
		E-12	A11MP1H1
		E-12	A11MP22H1
		E-12	A11MP4H1
MS171598	96906	E- 1	A6H2
MS171664	96906	E- 5	A6MP5
MS171668	96906	E- 1	MP14H1
MS171724	96906	E- 5	A6A2H1
MS171744	96906	E-12	A11MP15
MS17830-4C	96906	E- 6	A1MP4H4
		E-12	A11MP11H2
MS17830-6C	96906	E- 8	A1A1A1H2
		E- 6	A1MP9H1
MS20470AD4-7	96906	E-12	A11MP18H3

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Reference No.	Mfr. Code	Figure No.	Ref. Des.
MS21919DG5	96906	E- 6	A1MP11
MS24665-155	96906	E- 5	A6A2H1
MS3057-4B	96906	E- 7	A1W1MP3
MS3106A10SL4S	96906	E- 7	A1W1P1
MS35233-31	96906	E- 6	A1W1H2
MS35234-63	96906	E- 6	A1MP1H8
		E- 6	A1MP2H7
		E- 6	A1MP3H6
		E- 6	A1MP11H1
MS35307-307	96906	E-12	A1IMP11H2
MS35307-308	96906	E- 6	A3MP6H4
		E- 1	A47H4
		E- 1	MP94H4
MS35307-360	96906	E- 1	A48H1
		E- 1	MP55H1
MS35307-364	96906	E-13	A4MP2
		E- 1	A6H4
		E- 1	MP22H6
		E- 1	MP25H6
MS35307-372	96906	E- 8	A1A1A1H2
MS35307-413	96906	E- 1	A19H4
		E- 1	MP50H4
		E- 1	MP77H8
MS35307-417	96906	E- 1	MP50H8
MS35307-420	96906	E- 1	MP3H1
		E- 1	MP124H1
MS35307-421	96906	E- 1	MP1H4
MS35307-468	96906	E- 1	MP9[illegible]
MS35338-135	96906	E- 1	A48H5
		E- 1	MP55H2
MS35338-136	96906	E- 6	A1W1H2
MS35338-138	96906	E- 8	A1A1[illegible]H8
		E- 8	A1A1E3H8
		E- 8	A1A1E4H8
		E- 8	A1A1E5H8
		E- 9	A1A2MP1H3
		E- 6	A1MP1H8
		E- 6	A1MP2H7
		E- 6	A1MP3H6
		E- 6	A1MP11H1
		E-13	A4MP5H1
		E-10	A8A2H2
		E-10	A8MP26H1
		E- 4	A44MP2H2
		E- 1	MP28H4
		E- 1	MP96H4
		E- 1	MP100H1
		E- 1	MP101H2
MS35338-139	96906	E- 1	A47H4
		E- 1	MP94H4
MS35338-140	96906	E-10	A8MP16H2
MS35338-141	96906	E- 1	A2MP17
		E- 1	A6H4
		E-10	A8MP1H4
		E-10	A8MP3H8
		E- 1	A48H1
		E- 1	MP17H1
		E- 1	MP18H1
		E- 1	MP22H6
		E- 1	MP25H6
		E- 1	MP55H1
MS35338-143	96906	E- 1	A19H4
		E- 1	MP1H9
		E- 1	MP3H1
		E- 1	MP50H12
		E- 1	MP77H8
		E- 1	MP124H1
MS35338-145	96906	E- 1	MP91H2
MS35338-148	96906	E- 1	MP87H4
MS35649-2314	96906	E-10	A8MP16H2
MS35649-2384	96906	E-10	A8MP1H4
MS35649-264	96906	E- 6	A1W1H2
MS35650-304	96906	E- 6	A44MP2H2
MS35649-11	96906	E-10	A8MP30H1
MS500013	96906	E-14	A3MP2
MS51021-72	96906	E- 5	A6MP4
MS51021-86	96906	E-10	A8MP14
MS51937-10	96906	E- 1	MP87
MS51957-13	96906	E- 1	A48H3
MS51957-17	96906	E- 1	MP55H2
		E- 1	A48H2
MS51957-46	96906	E-14	A3MP3H2
MS51957-63	96906	E-13	A4MP5H1
		E- 1	MP28H4
		E- 1	MP96H4
		E- 1	MP100H1
		E- 1	MP101H2
		E- 1	MP114H4
MS51958-65	96906	E-10	A8MP26H1
MS51958-71	96906	E- 4	A44MP2H2
MS51959-98	96906	E-11	A8A1MP1H3
		E-11	A8A1MP5H6
		E-10	A8MP16H2
MS51971-1	96906	E- 1	A47H4
		E- 1	MP94H4
		E- 1	MP114H4
		E- 1	A47H4
		E- 1	MP94H4
		E-10	A8MP26H1
		E- 4	A44MP2H2
		E-11	A8A1MP1H3
		E-11	A8A1MP5H6
		E-10	A8MP16H2
		E- 1	A47H4
		E- 1	MP94H4

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Reference No.	Mfg. Code	Figure No.	Ref. Des.
MS51971-10	96906	E- 1	MP87H4
MS51971-3	96906	E- 1	MP17H1
		E- 1	MP18H1
		E- 1	MP22H6
		E- 1	MP25H6
MS51971-5	96906	E- 1	A19H4
		E- 1	MP1H13
		E- 1	MP3H1
		E- 1	MP50H12
		E- 1	MP77H8
		E- 1	MP124H1
MS51971-7	96906	E- 1	MP91H2
MS51972-3	96906	E- 1	MP6H1
MS90064-16	96906	E-	A1A1MP5
MS9048-240	96906	E- 1	A23MP2
		E- 1	A27MP2
MS9245-28	96906	E- 1	MP6H1
		E- 1	MP53H1
PCS1X24	70007	E- 1	MP116
RCJ1-1-2	21335	E- 1	MP50
SIZE2	81349	E- 1	MP13
SMD627301	80063	E 1	1
SMD627302	80063	E- 1	MP1
SMD627303	80063	E- 1	A2
SMD627304	80063	E- 1	A1
SMD627305	80063	E- 1	A3
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SMD627312	80063	E- 5	A6MP1
SMC627313	80063	E- 5	A6MP2
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MSC627315	80063	E-12	A11MP11
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SMC627325	80063	E- 1	MP4
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SMC627329	80063	E- 1	MP7
SMC627330	80063	E- 1	MP8
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AMD627369	80063	E- 6	A1MP1
SMD627370	80063	E- 6	A1MP3
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SMC627373	80063	E- 9	A1A2MP2
SMC627374	80063	E- 9	A1A2MP1
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10-107614-9S	77820	E- 3	W1J2
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		E-12	A11MP22H1
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8405H	73569	E- 2	A22MP1

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A11MP22H1	E-12	A51	E- 1
A11MP23	E-12	A51MP1	E- 1
A15	E- 2	A51MP2	E- 1
A15MP2	E- 2	MP1	E- 1

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MP16	E-1	MP94H4	E-1
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MP21	E-2	MP101H2	E-1
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MP39	E-2	MP111	E-1
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MP50H8	E-1	MP114H4	E-1
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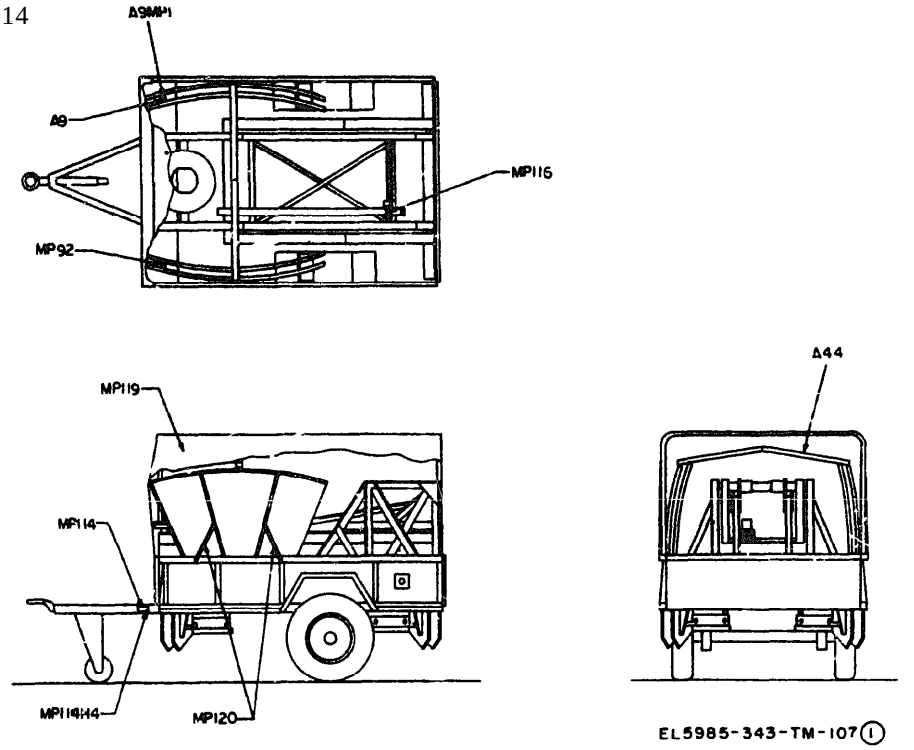

Figure E-1①. Antenna AS-2823/TRC (Sheet 1 of 7).

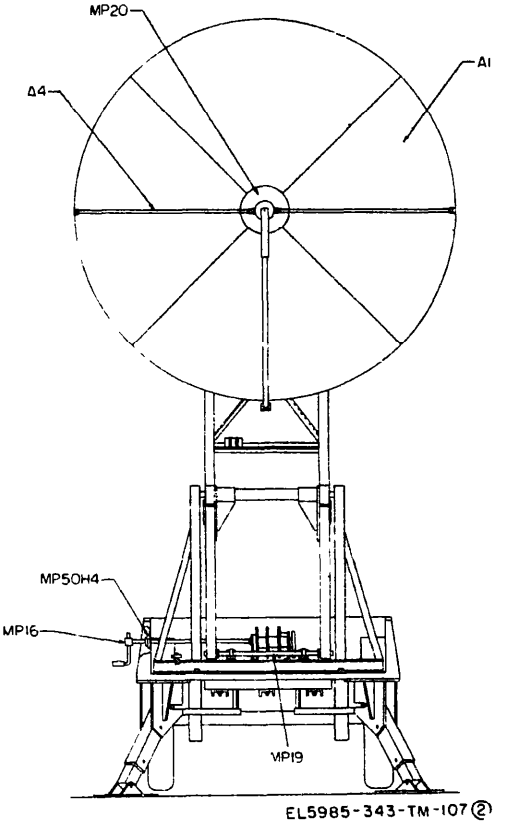

Figure E-1②. Antenna AS-2823/TRC (Sheet 2 of 7).

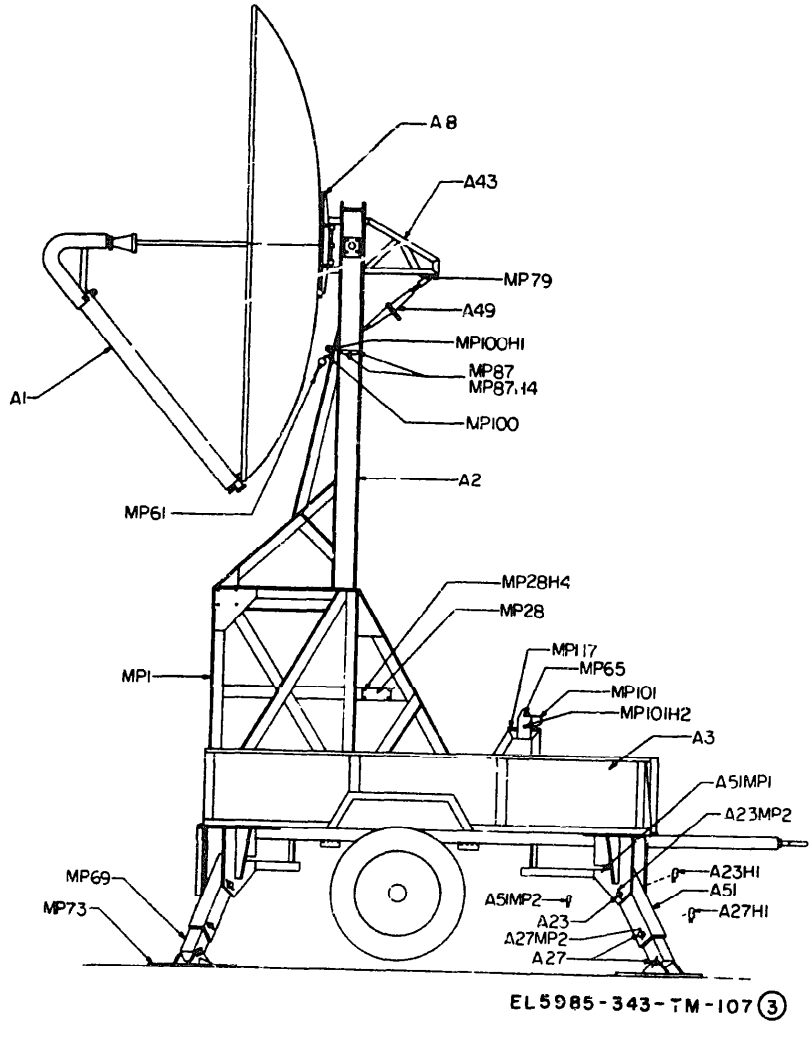

Figure E-1③. Antenna AS-2823/TRC (Sheet 3 of 7).

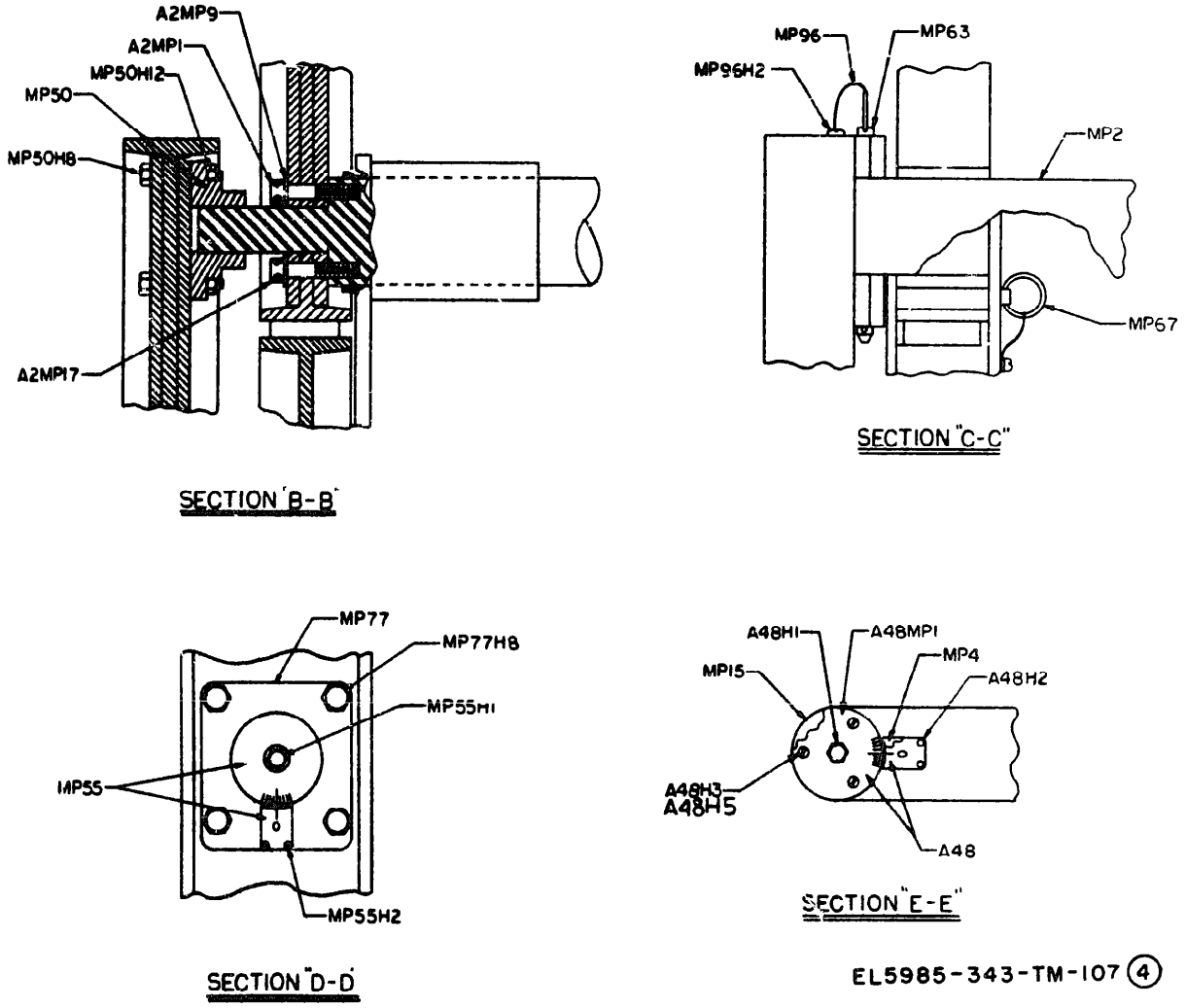

Figure E-1 (4). Antenna AS-2823/TRC (Sheet 4 of 7).

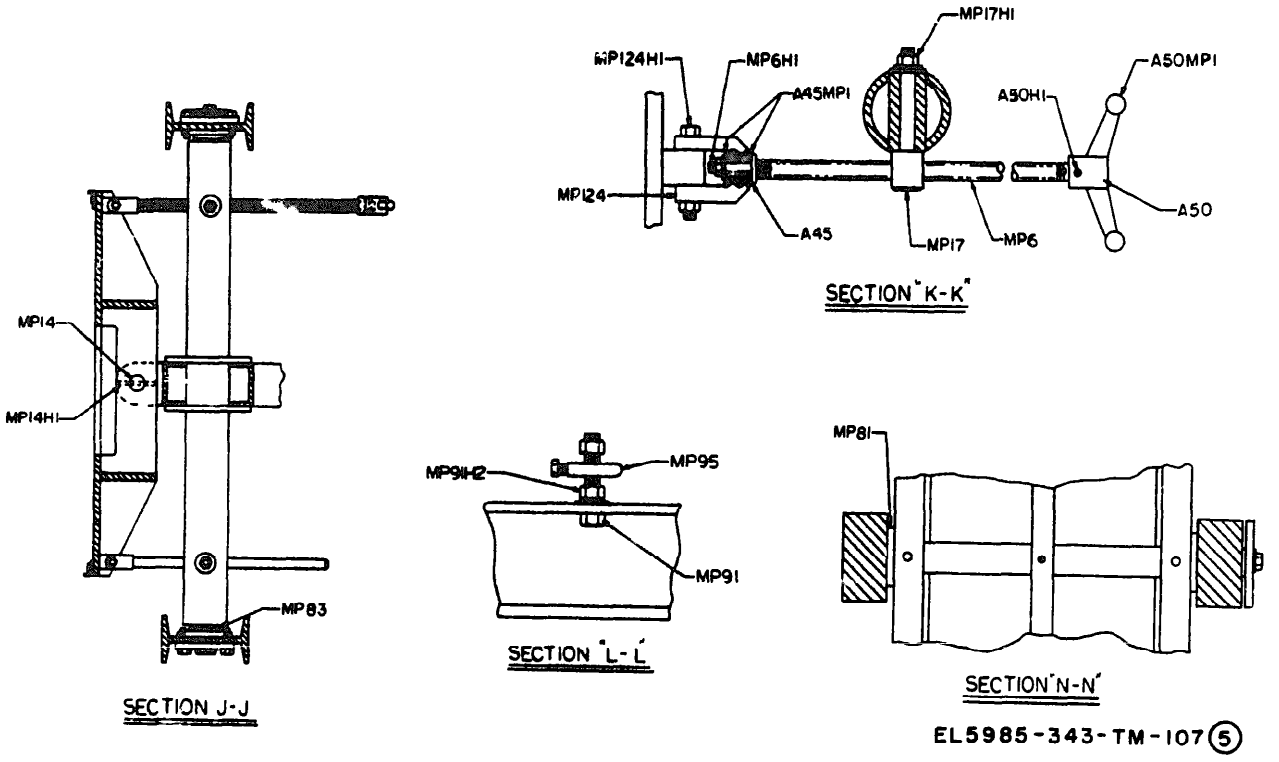

Figure E-1(5). Antenna AS-2823/TRC (Sheet 5 of 7).

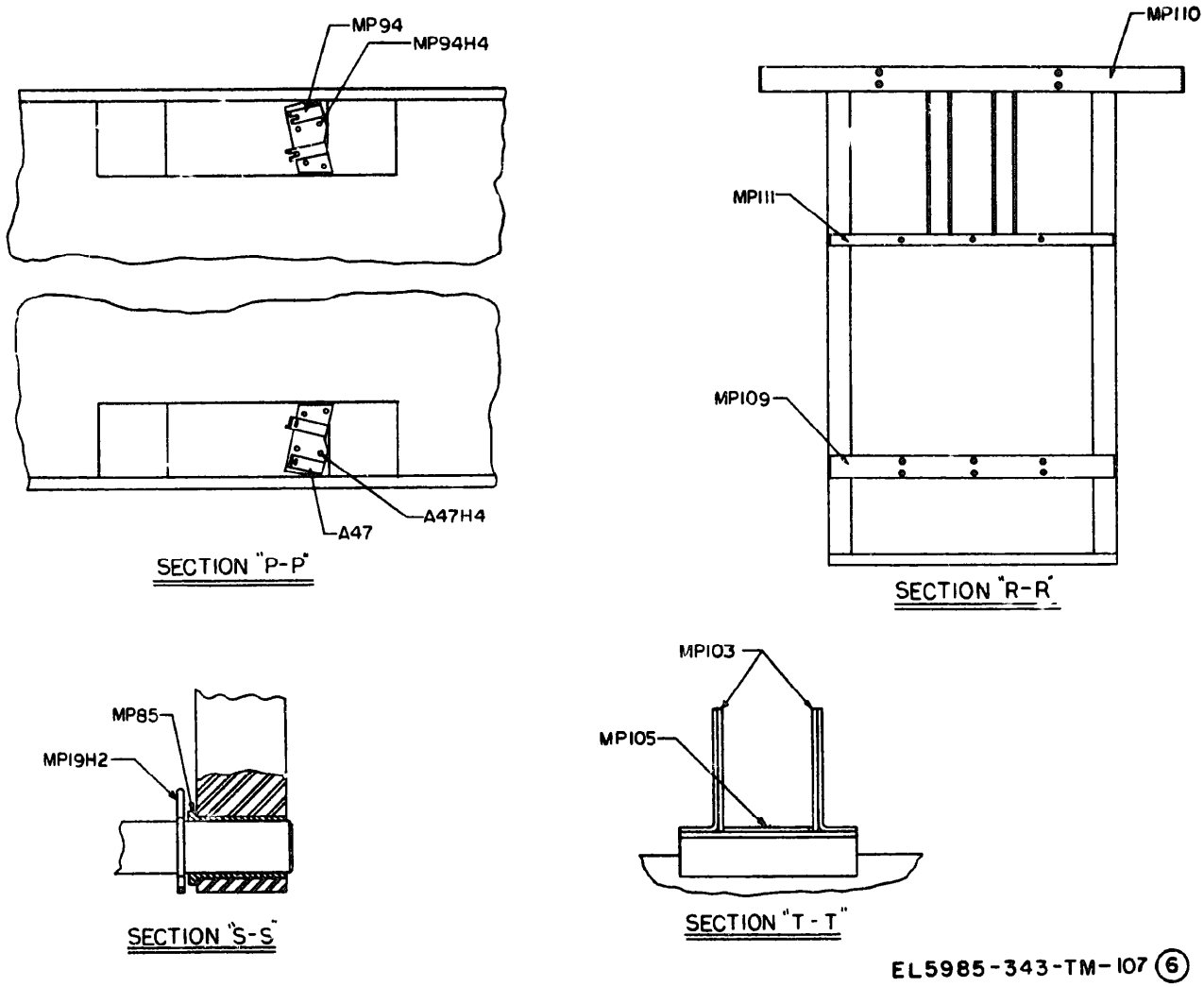

Figure E-1⑥Antenna AS-2823/TRC (Sheet 6 of 7).

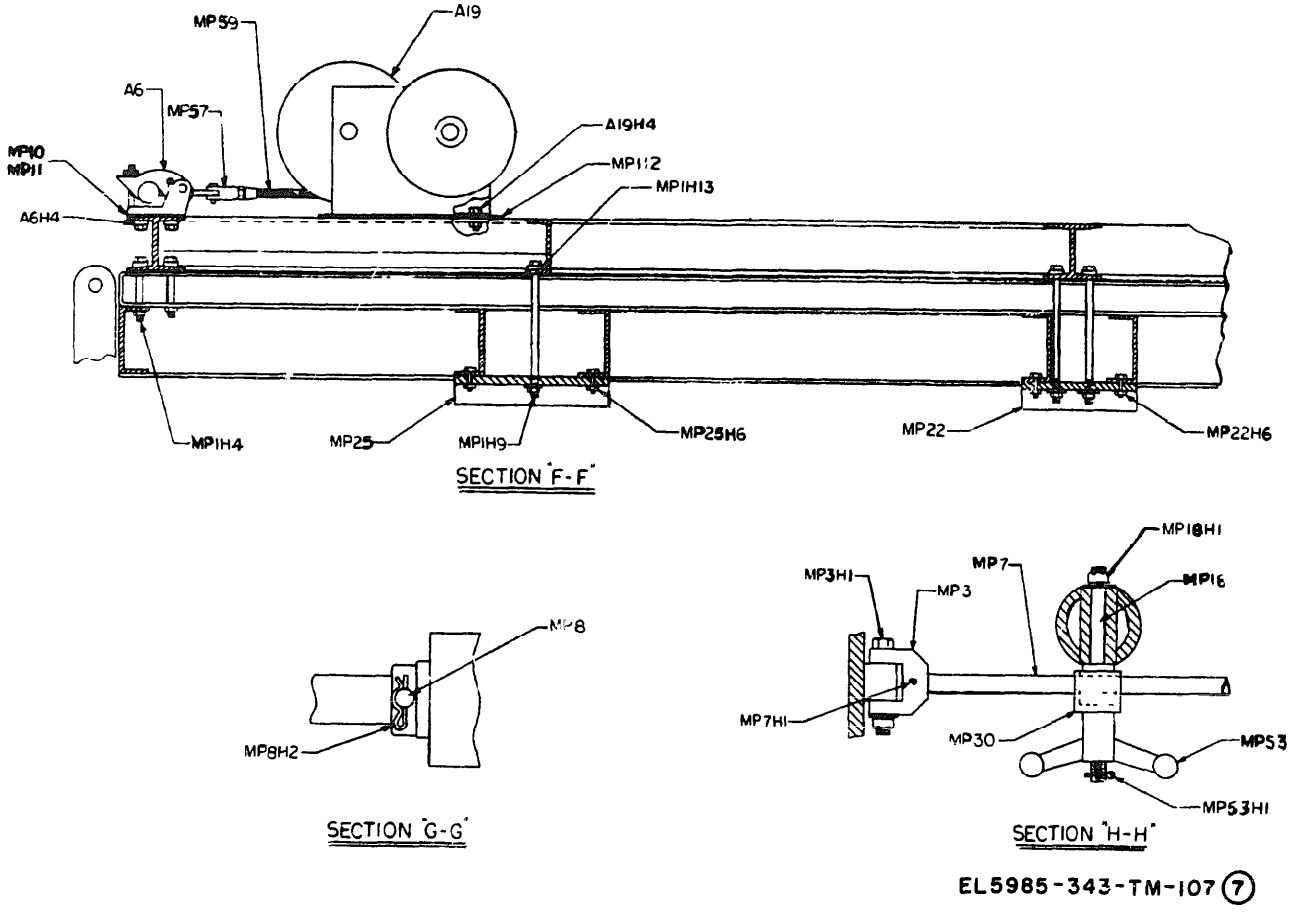

Figure E-1(7). Antenna AS-2823/TRC (Sheet 7 of 7).

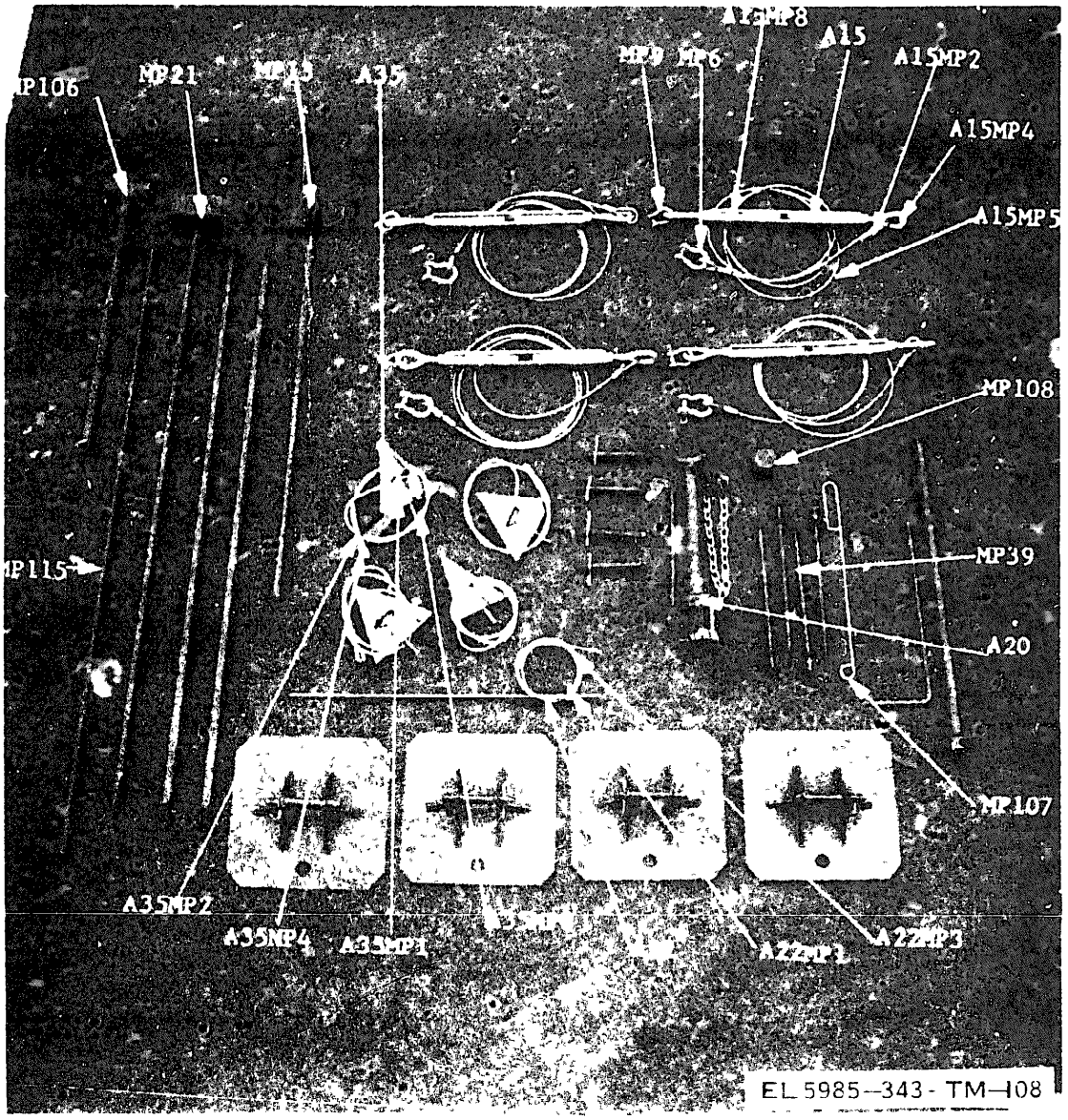

Figure E-2. Anchoring Equipment.

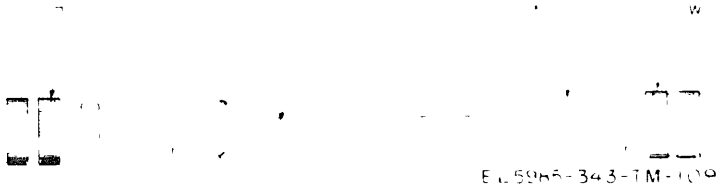

Figure E-3. Power Cable Assembly.

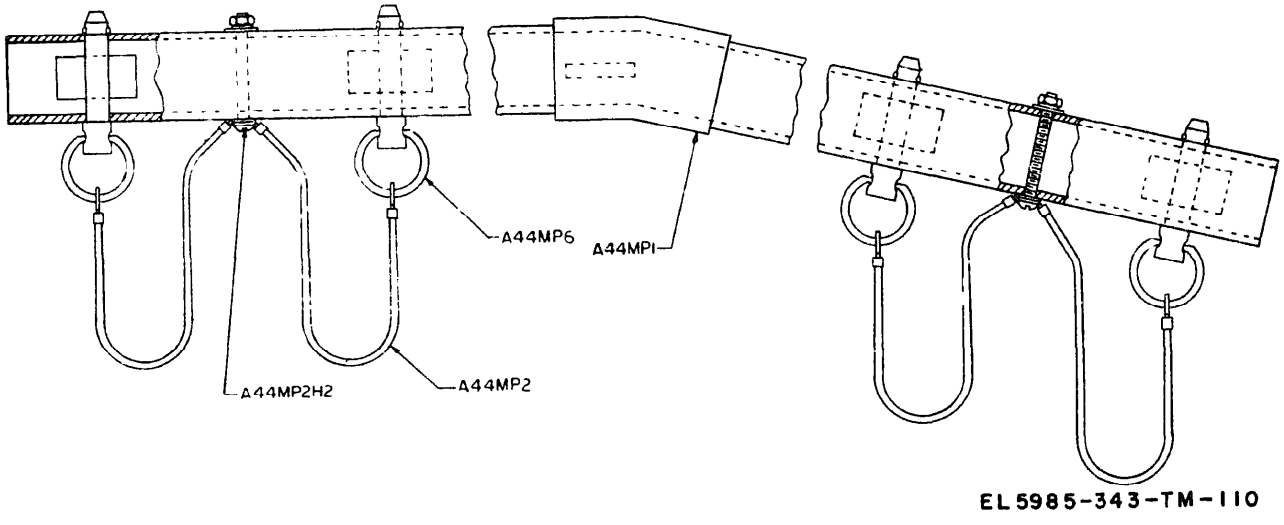

Figure E-4. Bar Assembly, Panel Stowage.

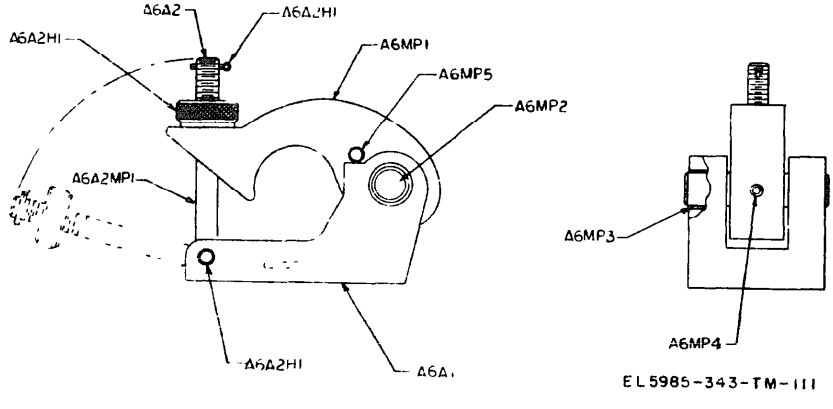

Figure E-5. Catch Assembly, Erecting Shaft.

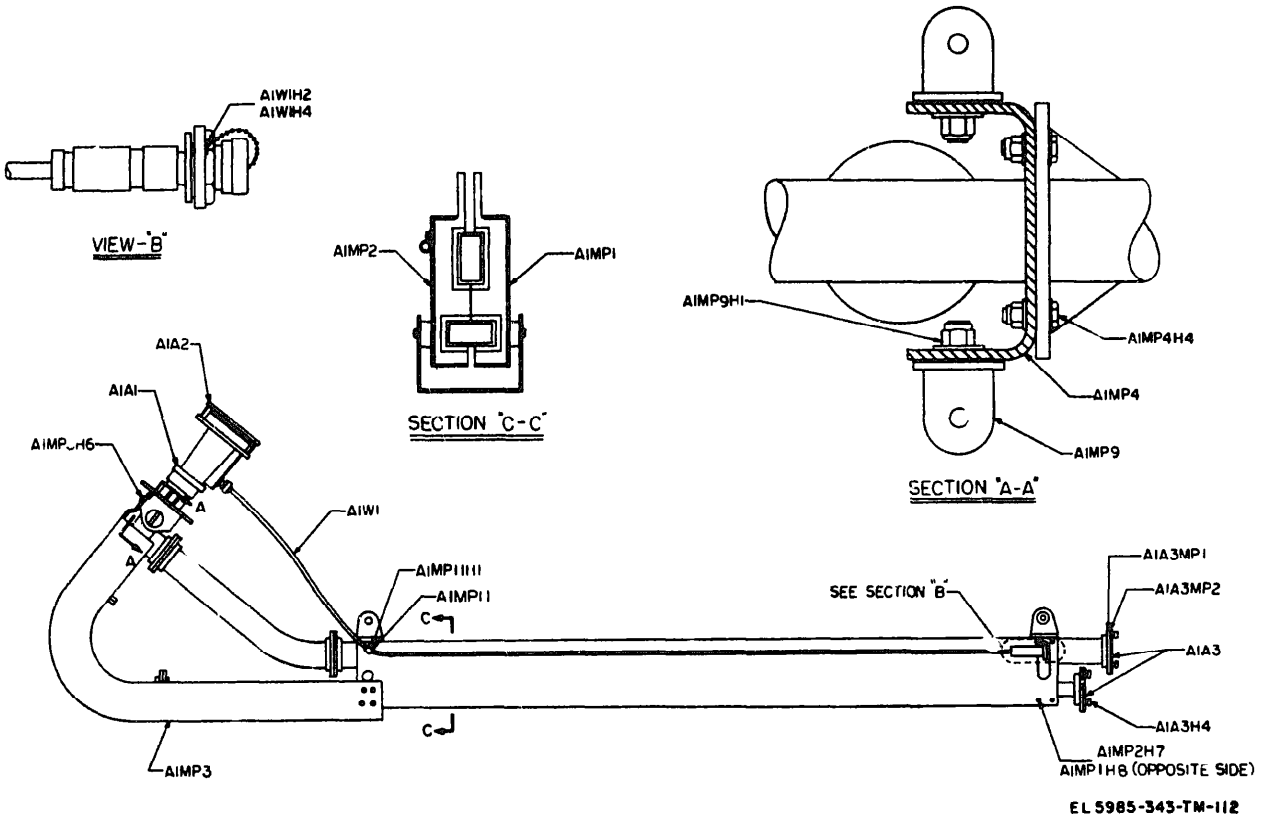

Figure E-6. Waveguide Horn.

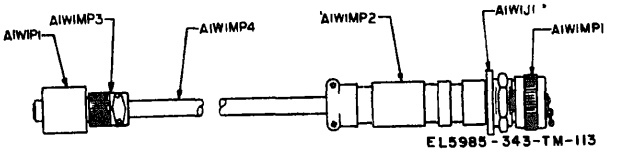

Figure E-7. Power Cable Assembly.

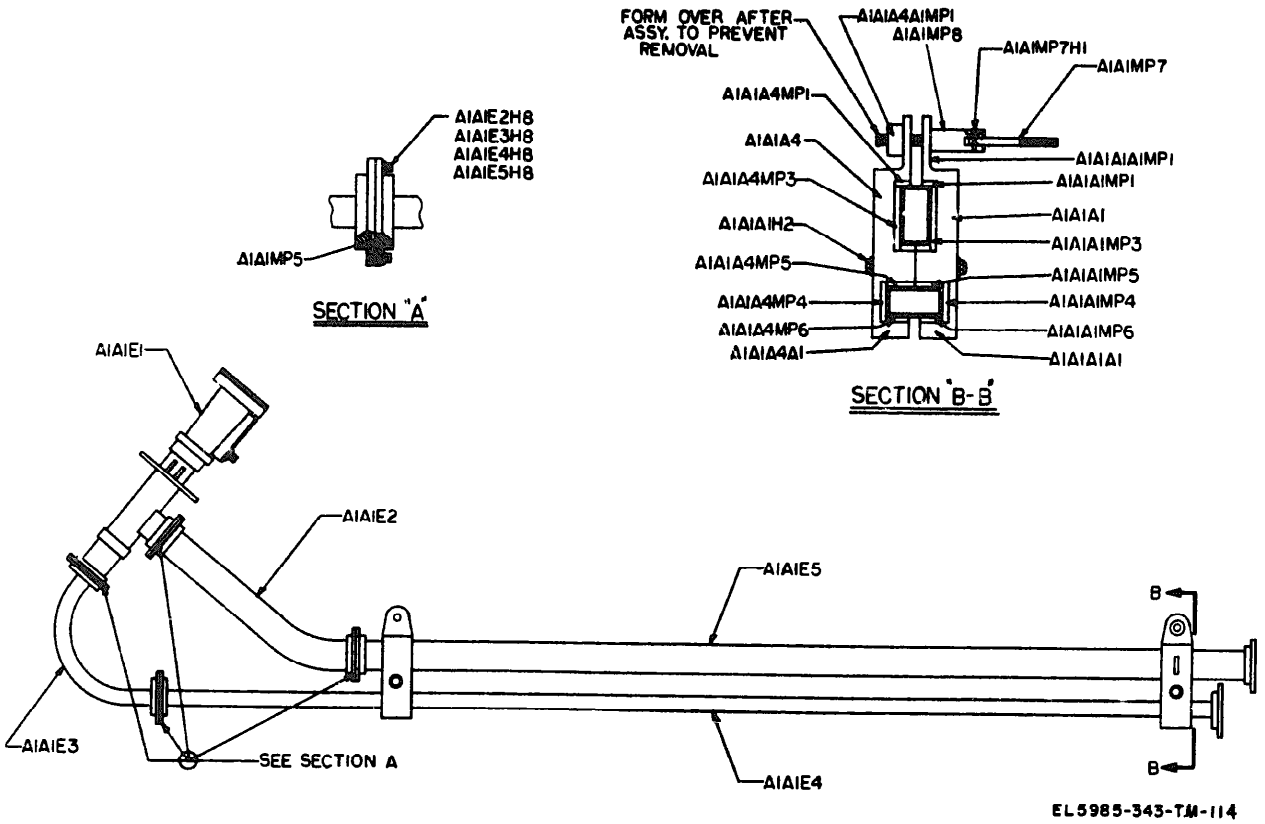

Figure E-8. Waveguide Horn.

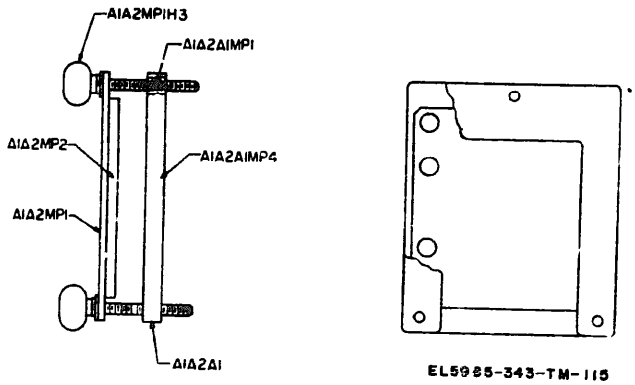

Figure E-9. Horn Assembly Protective Cover.

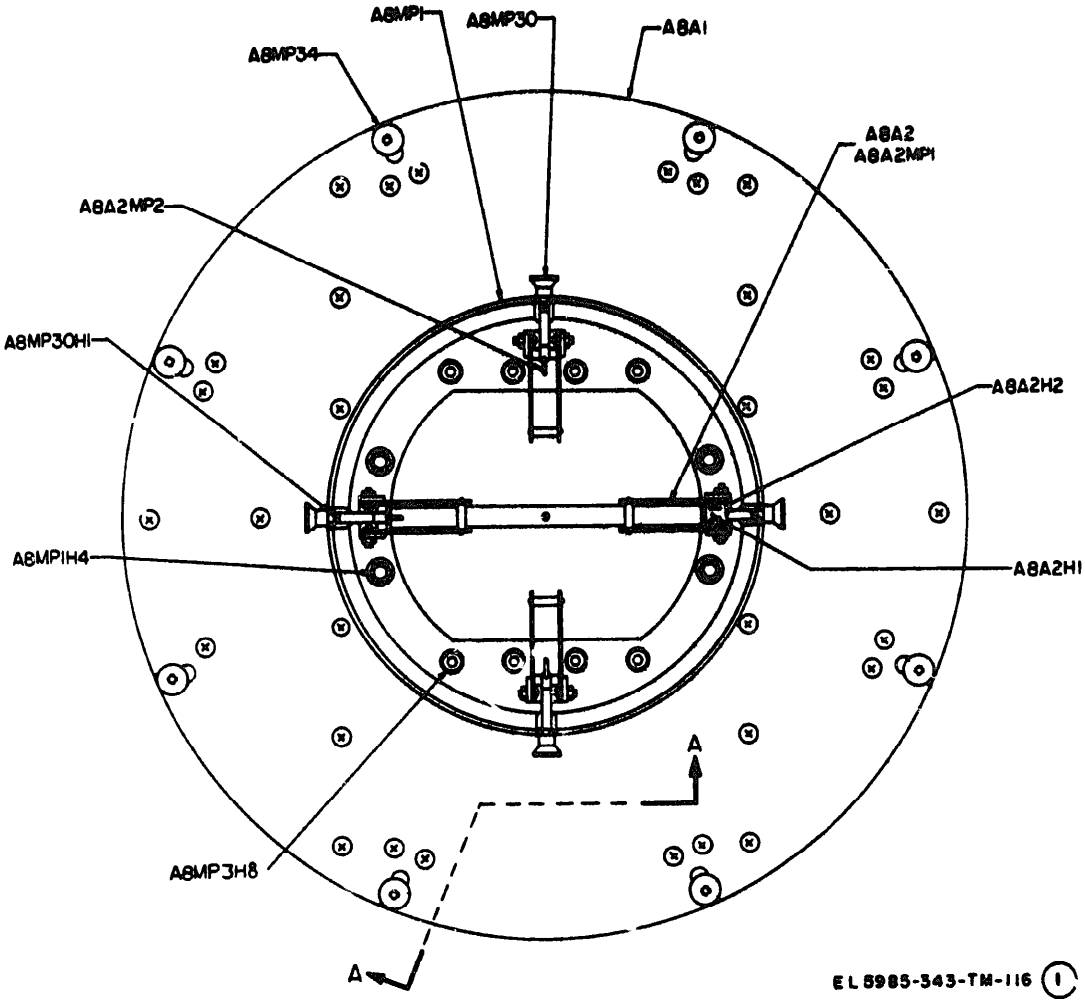

Figure E-10①. Mounting Plate Assembly, Reflector
(Sheet 1 of 2).

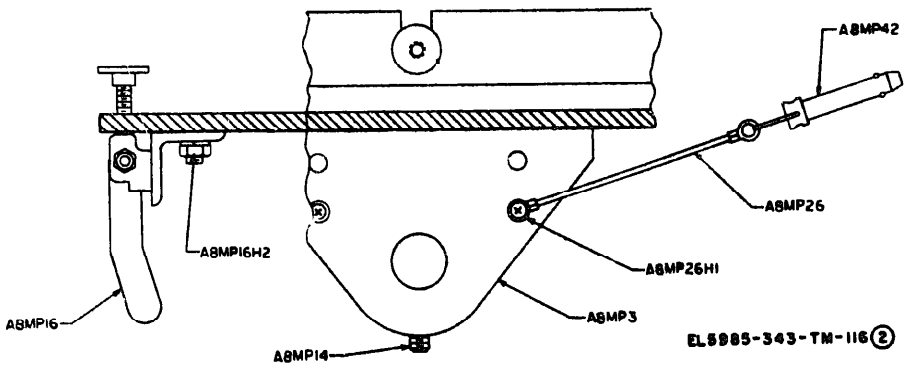

Figure E-10 ②. Mounting Plate Assembly, Reflector
(Sheet 2 of 2).

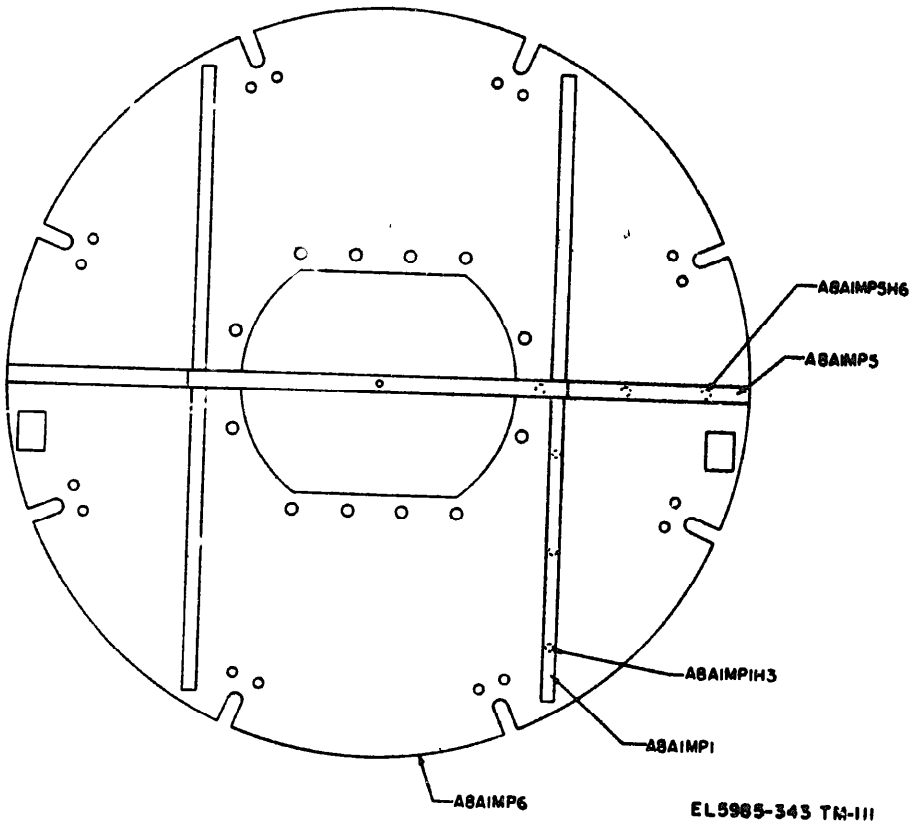

Figure E-11. Mounting Plate.

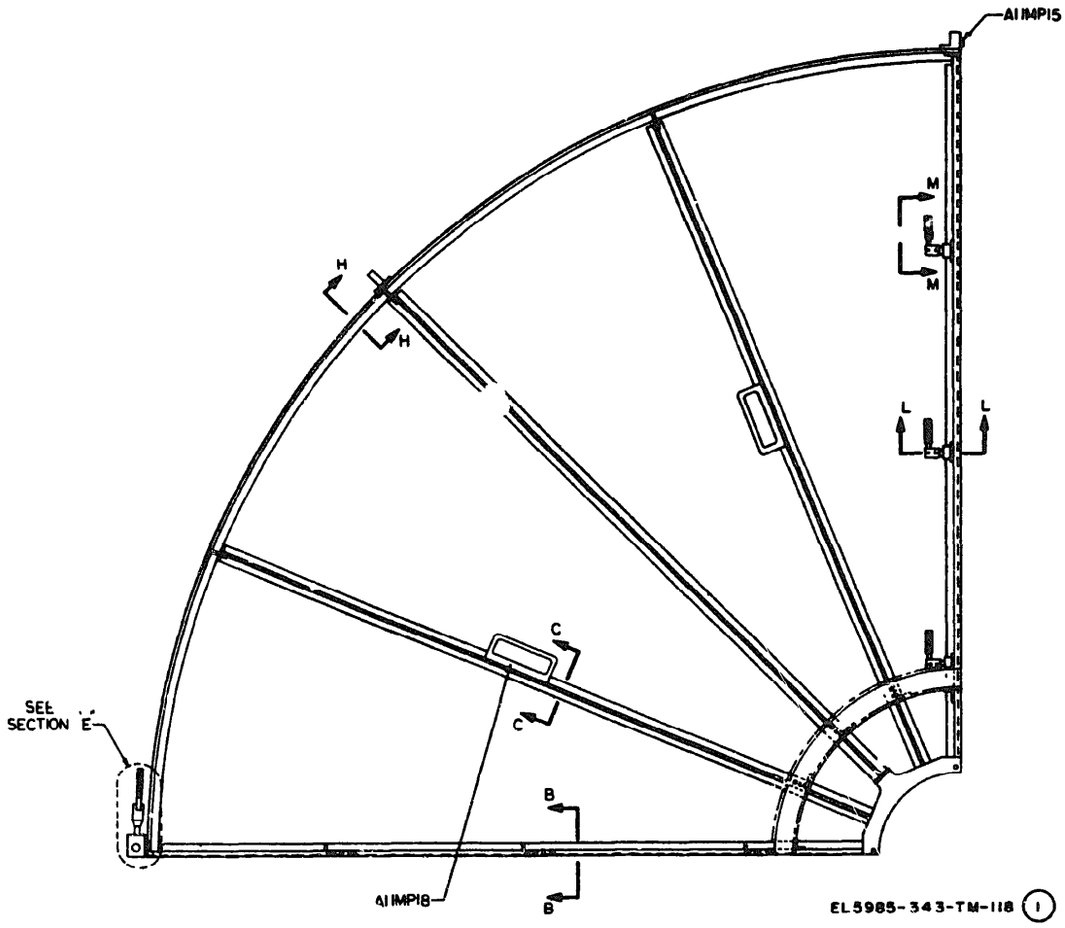

Figure E-12.(1). Reflector Section, Antenna (Sheet 1 of 2).

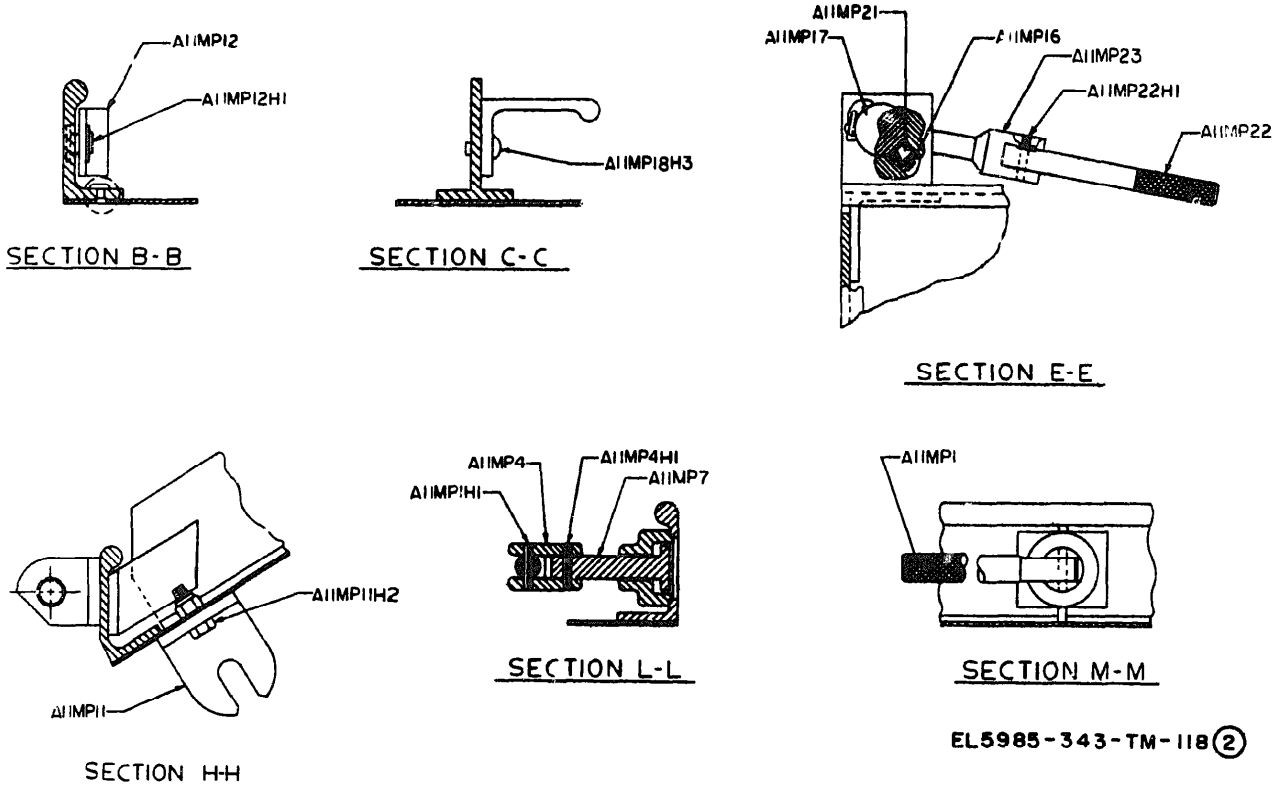

Figure E-12 (2). Reflector Section, Antenna (Sheet 2 of 2).

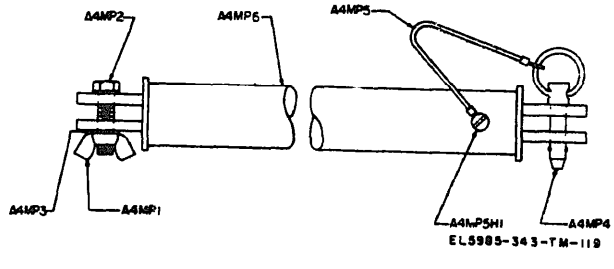

Figure E-13. Support Assembly.

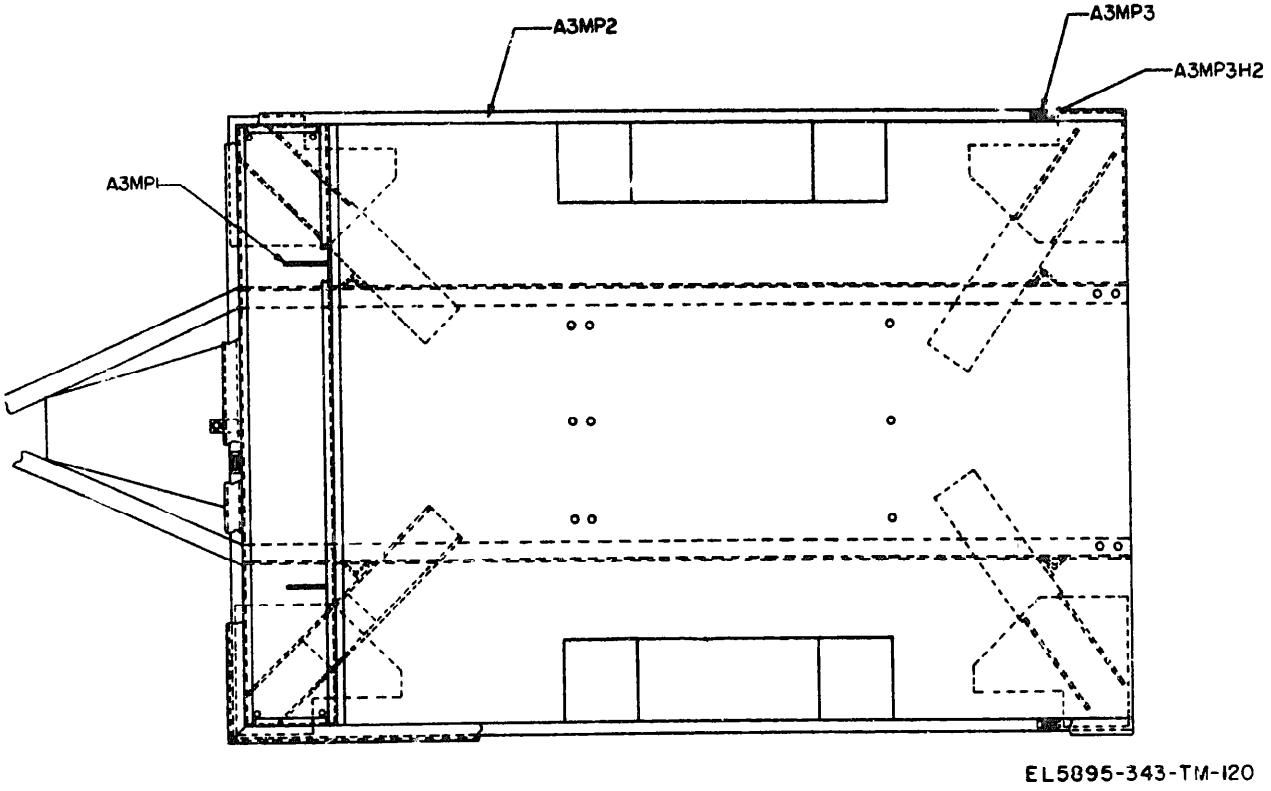

Figure E-14. Trailer, Cargo Modified.

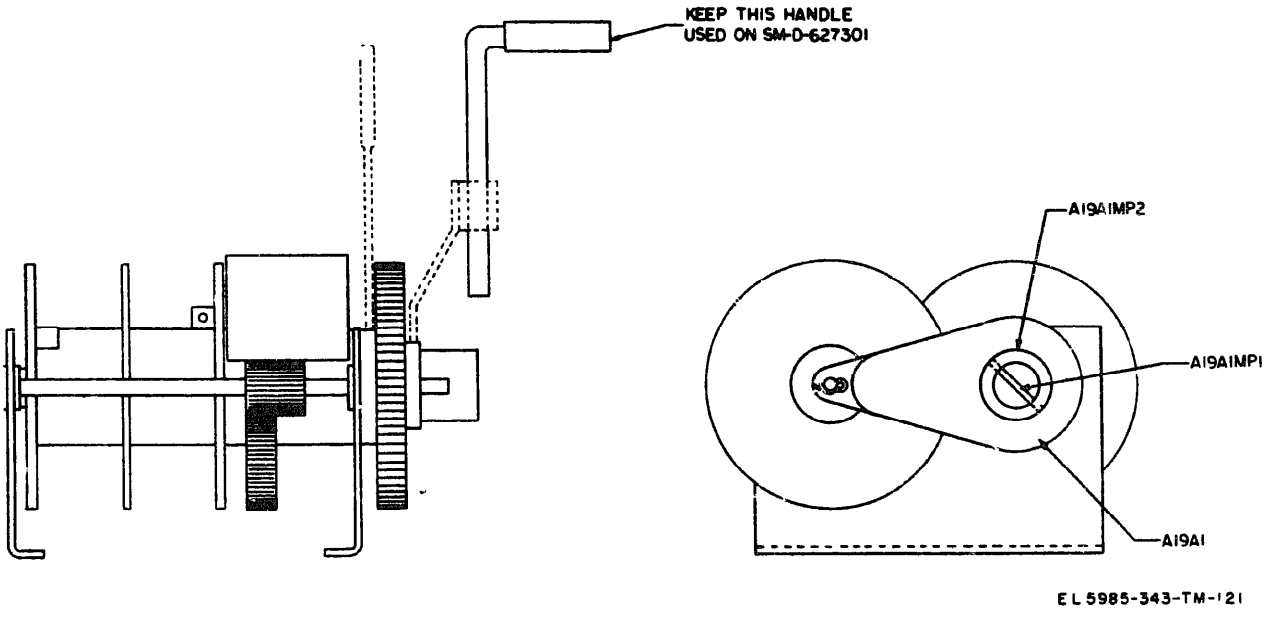

*Figure E-15. Winch, **Modified.***

ALPHABETICAL INDEX

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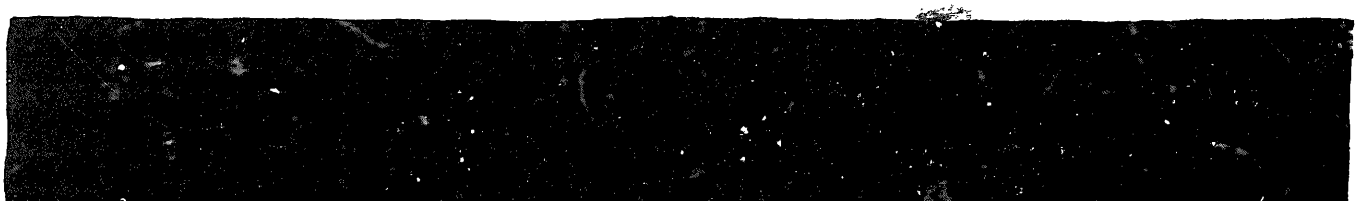

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