TM 55-1730-202-14

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DS AND GS MAINTENANCE MANUAL

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

JACK, HYDRAULIC, TRIPOD, TYPE B-5

PART NUMBER 50K25177

(FSN 1730-516-2018)

This copy is a reprint which includes current pages from Changes 1 through 6.

HEADQUARTERS, DEPARTMENT OF THE ARMY

22 JUNE 1972

WARNING

PRECAUTIONARY DATA

Personnel performing instructions involving operations, procedures, and practices which are included or implied in this technical manual shall observe the following instructions. Disregard of these warnings and precautionary infomation can cause serious injury, death, or an aborted mission.

ASSEMBLING JACK

Tighten all attaching hardware when assembling the jack to prevent failure of structural members under load.

OPERATING JACK

When positioning the jack, do not extend the extension screw more than the allowable 12 inches or the jack may fail under load. Make sure the ram locknut is lowered as the ram is extended.

CHANGE NO. 6

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 4 January 1991

Technical Manual
Operator's, Organizational, DS and GS Maintenance Manual
Including Repair Parts and Special Tools List

Jack, Hydraulic, Tripod, Type B-5

Part Number 50K25177
NSN 1730-00-516-2018

TM 55-1730-202-14, 22 June 1972, is changed as follows:

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1 and 2	1 and 2
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CHANGE NO. 5

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 5 July 1988

Technical Manual

Operator's Organizational, DS and GS Maintenanc Manual
Including Repair Parts and Special Tools List
Jack, Hydraulic, Tripod, Type B-5
Part Number 50K25177
(NSN 1730-00-516-2018)

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Remove pages	Insert pages
1 and 2	1 and 2
19 through 24	19 through 24
-----	24.1 through 24.4
25 through 30	25 through I-4

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TM 55-1730-202-14
C4

CHANGE NO. 4

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 10 September 1985

OPERATOR'S ORGANIZATIONAL, DS AND GS MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
JACK, HYDRAULIC, TRIPOD, TYPE B-5
PART NUMBER 50K25177
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1 and 2	1 and 2
5 and 6	5 and 6

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CHANGE
NO. 3

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OPERATOR'S, ORGANIZATIONAL, DS AND GS MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
JACK, HYDRAULIC, TRIPOD, TYPE B-5
PART NUMBER 50K25177
(NSN 1730-00-516-2018)

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	Remove pages	Insert pages
Chapter 1	1 and 2	1 and 2
Chapter 2	5 and 6	5 and 6
Chapter 3	9 and 10	9 and 10
Chapter 4	13 and 14	13 and 14
	17 and 18	17 and 18
Appendix A	19 and 20	19 and 20

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No. 2

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OPERATOR'S, ORGANIZATIONAL, DS AND GS MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
JACK, HYDRAULIC, TRIPOD, TYPE B-5
PART NUMBER 50K25177
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	Remove pages	Insert pages
Chapter 1	1 and 2	1 and 2
Appendix A	19 and 20	19 and 20

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TM 55-1730-202-14
C 1

CHANGE
No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., *25 February 1974*

Operator's, Organizational, DS, and GS Maintenance Manual
Including Repair Parts and Special Tools List

JACK, HYDRAULIC, TRIPOD, TYPE B-5

PART NUMBER 50K25177 (FSN 1730-516-2018)

TM 55-1730-202-14, 22 June 1972, is changed as follows:

1. Remove and insert pages as indicated below.

	Remove pages	Insert pages
Appendix B - C	21 thru 32	21 thru 31

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TECHNICAL MANUAL
No. 55-1730-202-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 22 June 1972

Operator's, Organizational, DS, and GS Maintenance Manual

Including Repair Parts and Special Tools list

JACK, HYDRAULIC, TRIPOD, TYPE B-5

PART NUMBER 50K25177 (FSN 1730-516-2018)

TABLE OF CONTENTS

CHAPTER 1
INTRODUCTION

Section I. GENERAL

1. SCOPE.

a. These instructions are published for the use of operating and maintenance personnel to whom the tripod hydraulic jack is assigned They contain information on operation, lubrication, detailed preventive maintenance, servicing, and maintenance of the equipment, its accessories and auxiliaries. Perservation, packing, shipping, and storing procedures are also provided. No special tools or equipment are required to perform organizational, direct support, and general support maintenance of this tripod hydraulic jack. Also included is the applicable repair parts and special tools list (Appendix C).

b. Appendix A provides a standard list of all publications applicable to this manual. Appendix B consists of the Maintenance Allocation Chart.

c. Reporting of Improvements. Report 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 forward directly to Commander, US Army Aviation Systems Command, ATTN: AMSAV-MC, 4300 Goodfellow Blvd., St. Louis, Missouri 63120-1798.

2. EQUIPMENT RECORDS.

The Army equipment record system and procedures established in DA PAM 738-751 apply to this equipment. The applicable forms as required by DA PAM 738-751 shall be used.

Section II. DESCRIPTION AND DATA

3. DESCRIPTION.

The tripod hydraulic jack consists of a pump assembly (13, figure 1), a cylinder and ram assembly (5), and the supporting tripod assembly. The foot assemblies (12 are fitted with spring loaded casters. When under load, the casters are depressed and the jack rests firmly on three feet. The purpose of the jack is to provide up to 5 tons of lifting effort through a range of $23^{9}/_{16}$ inches collapsed to approximately $75^{9}/_{16}$ inches fully extended.

4. IDENTIFICATION.

The tripod hydraulic jack has a nameplate mounted on the upper end of the cylinder and ram assembly (5, figure 1). A rise indicator decalcomania is located on the side of the cylinder and ram assembly. It indicates the amount of rise in inches. Air vent and capacity decalcomanias are located on the top side of the pump assembly (13).

5. TABULATED DATA.

Load capacity	5 tons
Collapsed height	$23^{9}/_{16}$ in. (inch)
Maximum extended height	$75^{9}/_{16}$ in.
Hydraulic ram travel	16 in.
Ram screw extension	12 in.
Leg extension lengths	12 in.
Working pressure	1750 psi (pounds per square inch)
Pump reservoir capacity	0.8 gal. (gallon)
Total weight	188 lb. (pound)

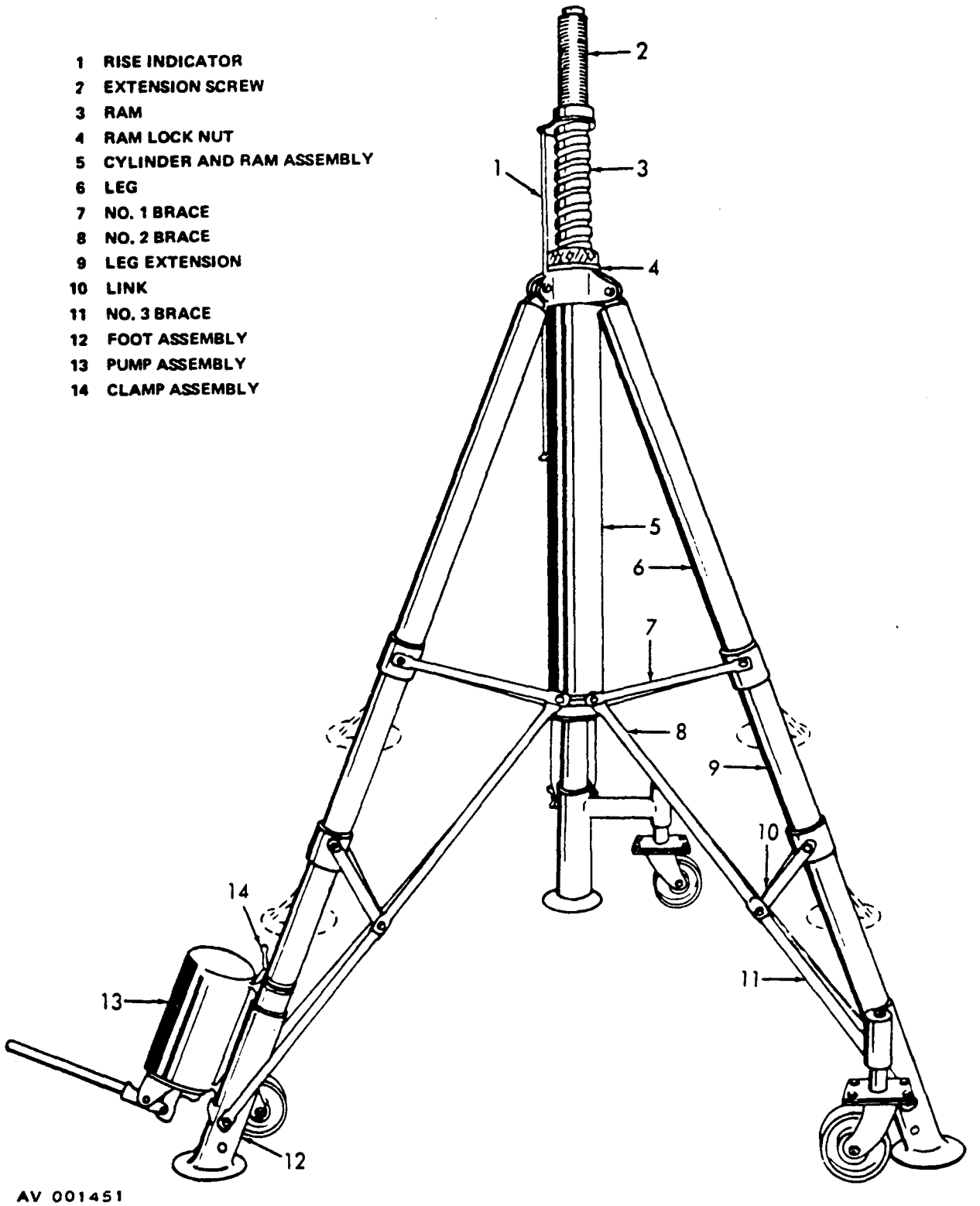


Figure 1. Tripod Hydraulic Jack, Overall View.

CHAPTER 2

INSTALLATION AND OPERATING INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF EQUIPMENT

6. UNCRATING EQUIPMENT.

CAUTION

Exercise care in removal of the crate top to prevent damaging the equipment with the prying tool.

a. Pry the top from the sides of the crate and remove the jack and its allied parts from the crate.

b. Remove the pressure-sensitive tape from all sealed openings. Clean preservatives from all unpainted metal surfaces with cleaning solvent (Federal Specification P-D-680).

7. INSPECTION OF NEW EQUIPMENT.

a. Peferom the before-operating services described in paragraph 26.

b. Make a thorough visual inspection of the equipment for cracks, breaks, distortion, and loose or missing parts.

c. Inspect all parts and assemblies for correct and secure mountings.

d. Correct all deficiencies or report them to the proper authority.

8. SERVICING NEW EQUIPMENT.

a. Pump Assembly.

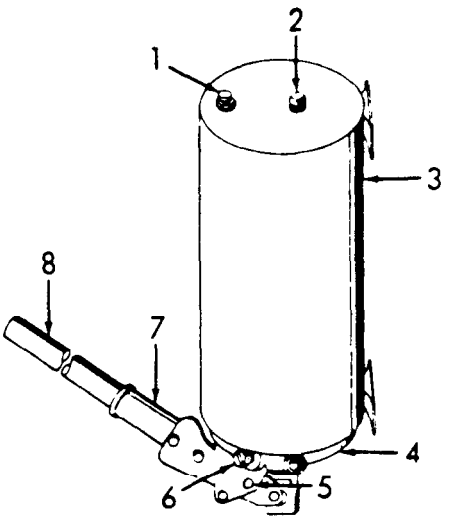
(1) Install the pump assembly (13, figure 1) on the foot assembly, (12) and secure with the clamp assembly (14).

(2) Remove the plug (2, figure 2) from the top of the pump assembly. Fill with hydraulic oil (OH) within one inch of the filler hole.

b. Cylinder and Ram Assembly.

(1) Lay the jack on its side so the inlet opening at the bottom of the cylinder and ram assembly (5, figure 1) is up. Pour hydraulic oil into the opening, expelling all air from the cylinder.

(2) Attach the hose assembly (6, figure 5) to the pump assembly. With the free end of the hose held above the attached end, actuate the pump to fill the hose with oil. Attach the hose to the cylinder and ram assembly.



1	AIR VENT ASSEMBLY	5	PIN ASSEMBLY
2	PLUG	6	RELEASE VALVE
3	RESERVOIR	7	SOCKET
4	PUMP BODY	8	HANDLE

Figure 2. Controls.

9. INSPECTION OF USED EQUIPMENT.

Inspect a used tripod hydraulic jack, following instructions in paragraph 7. Pay particular attention to the components which may be worr: through use, such as the extension screw (2, figure 1), foot assemblies (12), or hose (6, figure 5). Correct or report all deficiencies to proper authority.

10. SERVICING USED EQUIPMENT.

Service a used tripod hydraulic jack in accordance with instructions contained in paragraph 8. Pay particular attention to filling the cylinder and ram assembly with oil.

Section II. CONTROLS

11. GENERAL

This section describes, locates, illustrates, and furnishes the operator, or crew sufficient information pertaining to the various controls provided for proper operation of the tripod hydraulic jack.

12. AIR VENT ASSEMBLY.

The air vent assembly (1, figure 2) located in the top of the reservoir (3) is provided to establish a zero pressure condition in the reservoir during operation of the pump assembly, permitting a free flow of oil. The air vent must be closed when the jack is not in use to prevent oil leakage and contamination of the oil by dirt and moisture.

13. RELEASE VALVE.

The release (6, figure 2), located at the lower right side of the pump body (4) controls the return flow of oil from the cylinder and ram assembly. The release valve must be closed to raise the ram. Opening the release valve allows oil to flow from the cylinder to the reservoir, causing the ram to lower.

14. RAM LOCK NUT.

The ram lock nut (4, figure 1) is located on the ram (3) at the top end of the cylinder and ram assembly (5). It provides a means of securing the ram in its raised position.

15. RISE INDICATOR.

The rise indicator (1, figure 1) is secure to the top end of the ram with a collar and wingnut. When used in conjunction with the rise indicator decalcomania on the side of the cylinder, the rise indicator shows the distances, in inches, the ram travels when the pump is actuated.

16. HANDLE.

The handle (8, figure 2), which is inserted in the socket (7), is actuated to give the pump piston the necessary reciprocating action required to force oil into the cylinder and raise the ram.

Section III. OPERATION UNDER USUAL CONDITIONS

17. GENERAL.

Instructions in this section are published for the use of personnel responsible for the operation of this equipment, It is essential the operator know how to perform every operation of which the tripod hydraulic jack is capable.

18. SETTING UP INSTRUCTIONS.

a. General. The jack may be assembled in any of three basic closed heights by the use of the leg extensions. Figure 1 shows the jack with all extensions installed. The broken lines indicate the three possible foot assembly positions.

b. Minimum Closed Height. For this height the cylinder and ram assembly (5, figure 1), is mounted on the three legs (6) and the three foot assemblies (12) are installed directy on the bottom of the legs. Six no. 1 braces (7) are used.

c. Intermediate Closed Height. Refer to paragraph 18b, with the addition of one leg extensions. Six each of the no. 1 braces (7) and no. 2 braces (8) are used.

d. Maximum Closed Height. For this height both sets of three leg extensions (9) are used. The no. 2 braces (8) are swung down from their previous position and attached to the leg extensions with the links (10) and to the feet with no. 3 braces (11).

19. OPERATING DETAILS.

a. Positioning. The ground surface under the jack should be level. If the ground is soft, a board or plank should be placed under each foot. The jack should be placed so a Line drawn through the center of two of the feet will be parallel to the fuselage of the airplane or load to be lifted.

b. Raising.

CAUTION

Do not extend the extension screw more than 12 inches

(1) Turn the extension screw (2, figure 1) out until the socket in the screw contacts the load to be lifted.

(2) Position the rise indicator (1) on zero of the rise indicator decalcomania.

(3) Loosen the retaining screw on the ram locknut (4) to allow the locknut to lower by its own weight as the ram is extended.

(4) Loosen the air vent (1, figure 2) and tighten the release valve (6).

(5) Actuate the handle (8) to raise the load. If the resistance from the handle is excessive, relocate the pin assembly (5) to shorten the stroke of the socket (7).

(6) Secure the retaining screw in the ram locknut (4, figure 1) when the desired height is attained.

c. Lowering.

(1) Loosen the retaining screw in the ram locknut (4), turn the locknut to the top of the ram (3), and secure the retaining screw.

(2) Slowly open the release valve (6, figure 2) until the desired lowering rate of speed is obtained.

(3) After the ram is completely lowered, close the air vent assembly screw (2, figure 1).

Section IV. OPERATION UNDER UNUSUAL CONDITIONS

20. OPERATION IN DUSTY OR SANDY AREAS.

a. Lubricate the jack in accordance with lubrication instructions contained in paragraph 24. Keep lubricant containers clean and covered to prevent contamination.

b. Protect the jack from dust and sand as much as possible. Clean jack frequently and cover jack with tarpaulin when not in use.

21. OPERATION UNDER HUMID CONDITIONS

a. Clean all exposed areas frequently and apply a thin film of oil to all exposed metal surfaces.

b. Open the air vent only when required for operation, use.

minimizing moisture contamination of the hydraulic oil.

c. Keep the hose dry to prevent rot and deterioration.

22. OPERATION IN SALT WATER AREAS.

a. Protect all exposed metal surfaces from the corrosive action of salt air with a thin film of oil.

b. Retouch or repaint the jack as required to protect painted areas from corrosion (Federal Specification TT-E-489G, color 13538, Federal Standard 595A).

c. Keep the jack covered with a tarpaulin when not in

Section V. NUMERICAL PARTS LISTING

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CHAPTER 3

OPERATOR'S AND ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

Section I. LUBRICATION

23. GENERAL.

This section contains a lubrication chart (table 1) which is supplemented by the detailed lubrication information contained in paragraph 24.

24. DETAILED LUBRICATION INFORMATION.

a. Care of Lubricants. Replace covers on lubricant containers after use and store in a clean, dry place. Keep all containers used for handling oil clean and ready for use.

b. Cleaning. Clean all lubrication fittings or points of application with a cloth dampened in cleaning solvent (Federal Specification P-D-680) before applying lubricant.

c. Points of Application.

(1) Clean the extension screw (2, figure 1) and the ram (3) thoroughly and apply lubricating oil as directed in the lubrication chart (table 1).

(2) Apply lubricating oil to the caster mount stem of the foot assemblies (12) and grease the caster wheels in accordance with the lubrication chart (table 1).

(3) Increase the interval of steps (1) and (2) above when operating under unusual conditions, paying particular attention to thorough cleaning prior to lubrication.

Table 1. Lubrication Chart

Lubricants	Expected temperature			Intervals
	Above +32°F	+32°F to -10°F	-10° to -65°F	
OH-LUBRICATING OIL, Hydraulic Cylinder and Ram Pump	2135H	2110H	2075H	500 hrs 500 hrs
OE-OIL, Engine Heavy Duty Extension Screw Caster Mount Stem	All Temperatures			Monthly Monthly
GAA-GREASE, Automotive and Artillery Caster Wheels	All Temperatures			Monthly

Section II. PREVENTIVE MAINTENANCE SERVICES

25. GENERAL.

To ensure the equipment is ready for operation at all times, it must be inspected systematically before operation, during operation, and after operation, so defects may be discovered and corrected before they result in serious damage or failure. The necessary preventive maintenance services must be performed before operation. Defects discovered during operation of the unit will he noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noticed during operation which would damage the equipment if operation was continued. After-operation services will be performed at intervals based on the normal operation of the equipment. Reduce interval to compensate for abnormal conditions. Defects or unsatisfactory operating characteristics beyond the scope of the operator to correct must be reported at the earliest opportunity organizational maintenance. Responsibility for performance of preventive maintenance services rests not only with the operator, but with the entire chain of command from section chief to commanding officer (AR 750-5).

26. OPERATOR'S DAILY SERVICES.

Intervals			Procedure
Before operation	During operation	After operation	
X	X		Visual inspection. Make general inspection of the entire jack for obvious deficiencies, such as oil leaks, loose or missing bolts, nuts, loose hose connections and any damage that may have occurred since the equipment was last operated. Correct or report any deficiencies to proper authority.

Intervals			Procedure
Before operation	During operation	After operation	
X			Oil level. Check the oil level in the reservoir and add oil (paragraph 8) as required.
X	X	X	Leaks. Check the hose connections, pump assembly, and the cylinder and ram assembly for signs of leaks. Correct or report any deficiencies to proper authority.
X		X	Foot assemblies. Check the casters of the foot assemblies for free movement and rotation of the wheels. Lubricate as required.

Section III. TROUBLESHOOTING

27. GENERAL.

This section provides information useful in diagnosis and correction of deficiency revealed upon inspection, operation, or failure of the tripod hydraulic jack or any of its components. Each trouble symptom stated is followed by a list of probable causes of the trouble. The possible remedy recommended is described opposite the probable cause.

28. RAM WILL NOT RISE.

Probable cause	Possible remedy
Release valve open	Close release valve (paragraph 19).
Oil level low	Refill with oil (paragraph 8) and check for leaks (paragraph 26).
Air under the ram	Bleed the system (paragraph 38).
Hose assembly leaks	Replace a defective hose assembly (paragraph 40).
Pump assembly screen clogged	Report the malfunction to field maintenance.
Intake valve ball defective	Replace pump assembly (paragraph 39) or report to field maintenance.
Discharge valve ball defective	Replace pump assembly (paragraph 39) or report to field maintenance.

29. JACK WILL NOT RAISE CAPACITY LOAD.

Probable cause	Possible remedy
Hose assembly or connections leak under high pressure	Replace hose assembly (paragraph 40).
Pump assembly defective	Replace pump assembly (Paragraph 39).
Cylinder and ram assembly defective	Replace cylinder and ram assembly (paragraph 40).

30. JACK WILL NOT RAISE CAPACITY HEIGHT.

Probable cause	Possible remedy
Oil level low	Refill with oil (paragraph 8) and check for leaks (paragraph 26).
Closed air vent assembly	Open air vent assembly (paragraph 19).
Sticking intake valve in pump assembly	Pump rapid to dislodge. Report to field maintenance if malfunction persists.

31. RAM RISES AND FALLS DURING EACH STROKE

Probable cause	Possible remedy
Release valve open slightly	Close release valve (paragraph 19).
Pump assembly defective	Replace pump assembly (paragraph 39).

32. JACK WILL NOT HOLDUP LOAD.

Probable cause	Possible remedy
Release valve leaking	Tighten release valve (paragraph 19).
Hose assembly defective	Replace hose assembly (paragraph 40).
Cylinder and ram assembly defective	Replace cylinder and ram assembly (paragraph 40).
Pump assembly defective	Replace pump assembly (paragraph 39).

33. JACK WILL NOT LOWER THE LOAD.

Probable cause	Possible remedy
Ram locknut not released	Release ram locknut (paragraph 19).
Ram distorted	Replace cylinder and ram assembly (paragraph 40).
Release valve defective	Replace pump assembly (paragraph 39) or report to field maintenance.

34. JACK WILL NOT COMPLETELY CLOSE.

Probable cause	Possible remedy
Ram locknut not properly positioned	Reposition ram locknut (paragraph 19).
Air under the ram	Bleed the system (paragraph 38).
Ram distorted	Replace cylinder and ram assembly (paragraph 40).

35. HANDLE STROKE PARTIALLY INEFFECTIVE.

Probable cause	Possible remedy
Air in pump chamber	Open release valve (paragraph 19)
Air vent assembly closed	Open air vent assembly (paragraph 19).
Pump assembly screen clogged	Report to field maintenance.

36. HANDLE MOVES BACK TOWARD RESERVOIR.

Probable cause	Possible remedy
Air in pump chamber	Open release val (paragraph 19) and pump rapidly.
Pump assembly defective	Replace pump assembly (paragraph 39).

Section IV. HYDRAULIC SYSTEM

37. GENERAL.

The hydraulic system of the tripod hydraulic jack consists of the pump assembly, cylinder and ram assembly, and the connecting hose assembly, The pump is a reciprocating piston type unit, incorporating ball inlet and discharge valves. Two adjustable relief valves are included to maintain an operating pressure of 1750 psi. The cylinder and ram assembly transforms the hydraulic oil pressure of the pump into a vertical lifting force. This is effected by the ram, which is caused to rise by the incoming oil at the bottom of the cylinder. An O-ring packing is used for an oil seal between the ram and the cylinder wall.

38. BLEEDING AIR FROM THE SYSTEM.

Air under the ram, indicated by springiness of the ram or slowness in starting to rise, can usually be removes by loosening the hose connection at the cylinder and ram assembly and actuating the pump. Tighten the hose connection when the air bubbles no longer appear. If the condition persists, refill the cylinder and ram assembly with oil (paragraph 8).

39. PUMP ASSEMBLY.

a. Removal.

(1) Uncouple the quick disconnect fitting of the hose at the pump assembly (13, figure 1).

(2) Release the clamp assembly (14) and remove the pump from the foot assembly (12).

b. Installation.

(1) Install the pump assembly (13) on the foot assembly (12) and secure with the clamp assembly (14).

(2) Couple the hose assembly to the pump.

(3) Fill the reservoir with oil (paragraph 8) and check the hydraulic system for leaks (paragraph 26).

40. CYLINDER AND RAM ASSEMBLY.

a. Removal

(1) Uncouple the quick disconnect fitting of the nose at the pump assembly.

(2) Remove the nine nuts and bolts that secure the cylinder and ram assembly (5, figure 1) ill the tripod assembly and remove the cylinder and ram assembly.

(3) Remove the hose assembly from the bet. tom of the cylinder and drain the oil.

b. Installation.

(1) Place the cylinder and ram assembly (5) in the tripod assembly and secure with the 9 bolts and nuts.

(2) Fill the cylinder with oil (paragraph 8) and install the hose assembly.

Section V. STRUCTURAL MEMBERS

41. GENERAL.

The tripod assembly and the three foot assemblies, along with the necessary braces and links, make up the structural members of the tripod hydraulic jack. These members provide the firm foundation required to support the cylinder and ram assembly during the lifting operation.

42. FOOT ASSEMBLIES.

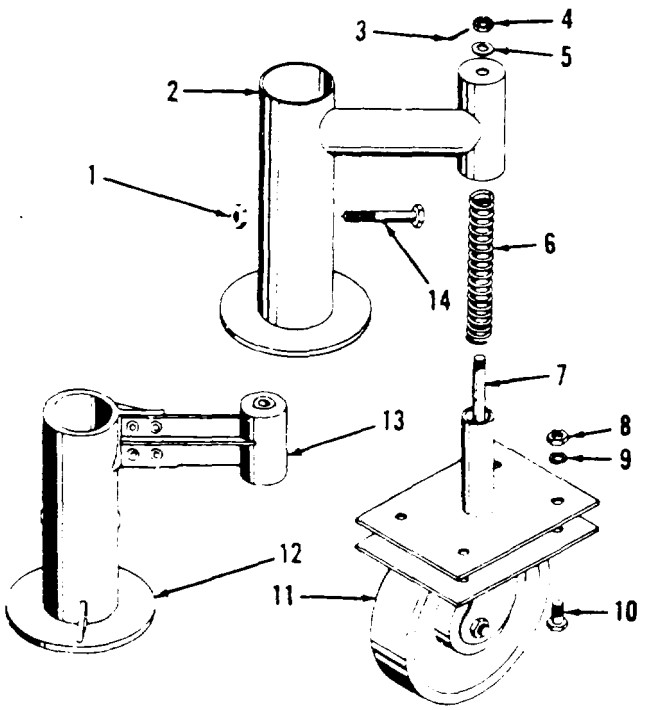
a. Removal. Lay the jack on its side. Remove the nuts (1, figure 3) and bolts (14) and pull the foot assemblies off the leg extensions.

b. Disassembly.

(1) Remove the cotter pin (3), nuts (4), and washer (5) that secure the caster mount (7) to the welded foot assembly (2) and remove the mount with attached caster (11) and spring (6) from the foot assembly.

(2) Remove the four nuts (8), four washers (9), and four bolts (10) that secure the caster to the mount and remove the caster.

(3) Disassemble the cast foot assembly by removing the four nuts, lockwashers, and bolts that secure the foot (12) to the housing.



1 NUT
2 WELDED FOOT ASSEMBLY
3 COTTER PIN
4 NUT
5 WASHER
6 SPRING
7 CASTER MOUNT
8 NUT
9 WASHER
10 BOLT
11 CASTER
12 FOOT
13 HOUSING
14 BOLT

***Figure 3. Foot* Assembly, *Exploded* View.**

c. Cleaning and Inspection.

(1) Clean all parts with cleaning solvent (Federal Specification P-D-680) and dry thoroughly.

(2) Inspect all parts for damage and corrosion. Check the casters to determine they rotate and swivel freely. Replace all defective parts Retouch or repaint damaged painted surfaces as required (Federal Specification TT-E-489G, color 13538, Federal Standard 595A).

d. Reassembly.

(1) Position the housing (13) on the foot (12) and secure with the four bolts, lockwasher, and nuts.

(2) Secure the caster (11) to the caster mount (7) with the four bolts (10), four washers (9), and four nuts (8).

(3) Lubricate the caster and stem of the caster mount (paragraph 24). Place the spring (6) and the caster mount with attached caster in the welded foot assembly (2) and install the washer (5), nut (4), and cotter pin (3).

e. Installation. Push the foot assemblies on the leg extensions and secure with the bolts (14) and nuts (1).

43. TRIPOD ASSEMBLY.

a. *Removal.*

(1) Remove the pump assembly (paragraph 39)

(2) Remove the cylinder and ram assembly (paragraph 40).

(3) Remove the foot assemblies (paragraph 42).

b. Cleaning and Inspection.

(1) Clean the tripod assembly with cleaning solvent (Federal Specification P-D-680) and dry thoroughly,

(2) Inspect the tripod assembly for cracks, breaks, and distortion. Replace a defective or damaged part.

(3) Retouch or repaint damaged painted surfaces as required.

c. Installation.

(1) Install the foot assemblies (paragraph 42).

(2) Install the cylinder and ram assembly (paragraph 40).

(3) Install the pump assembly (paragraph 39) .

CHAPTER 4

DS AND GS MAINTENANCE INSTRUCTIONS

Section I. TROUBLESHOOTING

44. RAM WILL NOT RISE.

Probable cause	Possible remedy
Screen clogged	Remove and clean the screen (paragraph 49).
Intake valve ball defective	Replace intake valve ball (paragraph 49).
Discharge valve ball defective	Replace discharge valve ball (paragraph 49).
Release valve assembly defective	Replace release valve assembly (paragraph 49).
Safety valve assembly set too low or leaks	Adjust or replace the safety valve assembly as required (paragraph 49).
Relief valve assembly set too low or leaks	Adjust or replace the relief valve (paragraph 49).

45. JACK WILL NOT RAISE CAPACITY LOAD.

Probable cause	Possible remedy
Safety valve assembly defective	Replace safety valve assembly (paragraph 49).
Relief valve assembly defective	Replace relief valve assembly (paragraph 49).
Discharge valve ball defective	Replace discharge valve ball (paragraph 49).
Ram O-ring packing defective	Replace packing (paragraph 50) .
Pump O-ring packing defective	Replace packing (paragraph 49).

46. RAM RISES AND FALLS DURING EACH STROKE.

Probable cause	Possible remedy
Discharge valve defective	Replace valve ball or pump body as required (paragraph 49).

47. JACK WILL NOT HOLD UP LOAD.

Probable cause	Possible remedy
Release valve assembly defective	Replace release valve (paragraph 49).
Discharge valve defective	Replace valve ball or pump body as required (paragraph 50).
Ram O-ring packing defective	Replace packing (paragraph 50).

48. JACK WILL NOT LOWER THE LOAD.

Probable cause	Possible remedy
Release valve assembly defective	Replace release valve assembly (Paragraph 49).
Ram bent or distorted	Replace ram (paragraph 50).

Section II. HYDRAULIC SYSTEM

49. PUMP ASSEMBLY.

a. Removal. Remove the pump assembly (paragraph 39).

b. Disassembly.

(1) Slip the pump handle (1, figure 4) out of the pump handle socket (2). Pull the pin assembly (15) and remove the pump handle socket (2) from the pump body (18). Remove the pump piston pin (4) and the piston pin roller (39) from the socket. Remove the two screws (14) that secure the chain (16) to the pin assembly (15).

(2) Remove the 90-degree elbow (34) from the pump body. Remove the vent assembly (29) and the plug (27) and invert the pump assembly to drain the oil.

(3) Remove the two screws (5), four screws (17), and six lockwashers (3) that secure the pump reservoir (26) and pump body gasket (25) to the pump body (18) and remove the reservoir and gasket.

(4) Remove the two screws (10) and chain (11) from the pump pistor (9) and the pump body (18) and pull the piston out of the pump body.

(5) Remove the pump snap ring (8), pump wiper (7), pump packing wiper nut (6), backup ring (12), and O-ring (13) from the pump body.

(6) Remove the safety valve assembly (32) and the relief valve assembly (33) from the pump body.

(7) Remove the plug (31) releasing the discharge valve spring (24), intake vaile spring (22), and two balls (21 and 23).

(8) Remove the two plugs (20) and the screen (19) from the pump body (18).

(9) Remove the release assembly (38), ball (37), release stem packing nut (36), and the release stem packing (35) from the pump body.

c. Cleaning, Inspection, and Repair.

(1) Clean all parts and flush out all oil passages with cleaning solvent (Federal Specification P-D-680). Dry thoroughly with compressed air and a lint-free cloth.

(2) Inspect the steel balls, pump piston pin, and the piston pin roller for pits and corrosion. Replace if defective.

(3) Inpect the wiper nut, pump piston, and pump body for cracks, breaks, and distortion. Check the clearance between the wiper nut and the piston. Replace the wiper nut if the clearance exceeds 0.008 inch. Check the clearance between the piston and the pump body. Replace both parts if the clearance exceeds 0.011 inch.

(4) Inspect all other parts for distortion and damaged threads. Replace if defective.

(5) Replace the O-ring, backup ring, and gasket.

(6) Replace a damaged screen.

d. Reassembly.

(1) Install the ball (37), release stem packing (35), release stem packing nut (36), and the release assembly (38) in the pump body (18).

(2) Install the screen (19) and two plugs (20), in the pump body (18)

(3) Install the ball (21), intake valve spring (22), ball (23), and discharge valve spring (24) in the pump body and retain by installing the plug (31).

Note

Tap each steel ball lightly with a brass drift as they are installed to ensure proper seating.

(4) Install the safaty valve assembly (32) and the relief valve assembly (33) in the pump body.

(5) Install the O-ring (13), backup ring (12), pump-packing wiper nut (6), pump wiper (7), and pump snap ring (8) in the pump body. Lubricate the pump piston lightly with hydraulic oil. slide the piston into the pump body. and tighten the wiper nut until a slight drag is felt on the piston.

(6) Install the chain (11) and two screws (10) on the pump body and the installed piston.

(7) Instill the elbow (34) in the pump body.

(8) Install the piston pin roller (39) and the pump piston pin (4) in the pump handle socket (2) and stake the pin in place. Position the handle socket in the pump body and install the pin assembly (15). Secure the chain (16) to the pin assembly and the pump body with the two screws (14).

(9) Secure the pump reservoir (26) and the pump body gasket (25) to the pump body (18) with the six screws (5 and 17) and six lockwashers (3).

(10) Install the vent assembly (29) and the plug (27) in the reservoir. Insert the pump handle (1) in the socket.

e. Adjustment.

(1) Screw the safety valve assembly down until the spring bottoms in the valve.

(2) Install the reservoir as described in *d* above and fill with oil (paragraph 8).

(3) Place the pump in a holding fixture or secure to a bench and attach a 5,000 psi pressure gage to the outlet at the bottom of the pump.

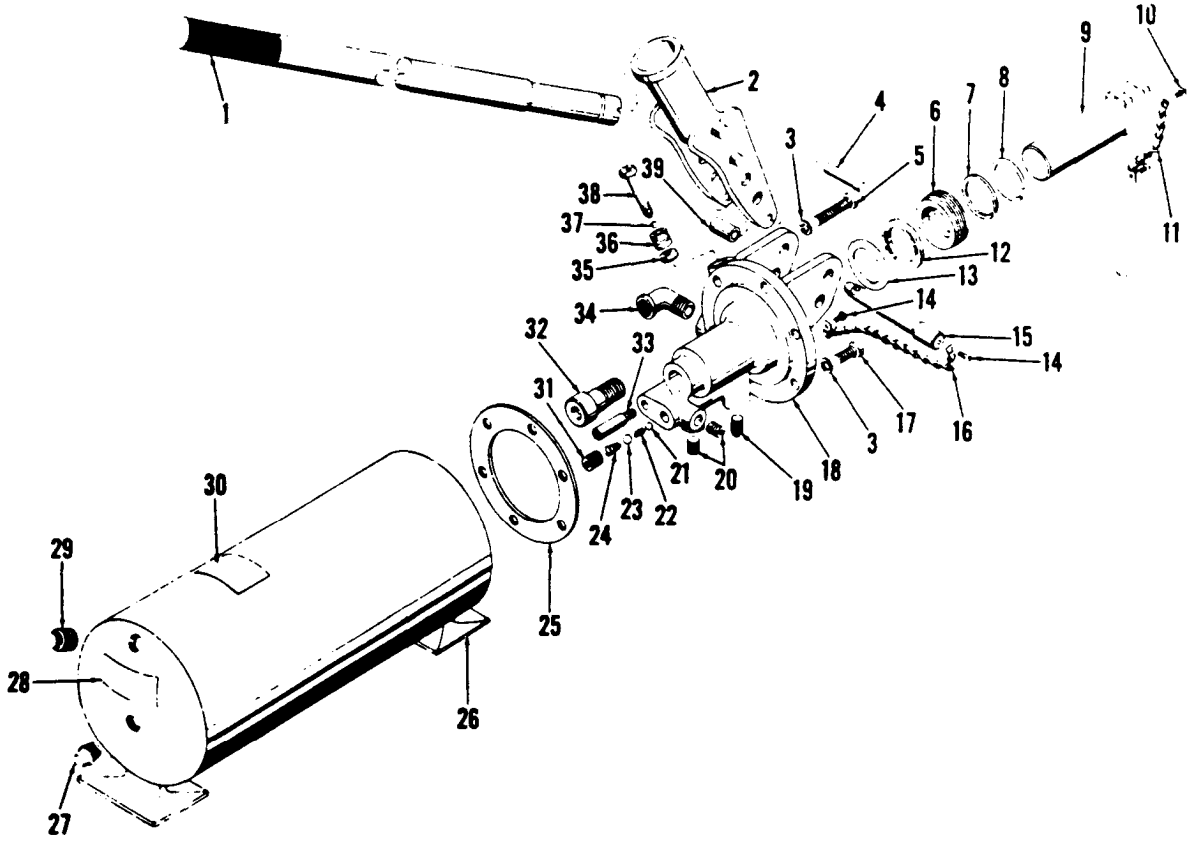
(4) Tightly close the release valve and open the air vent at the top of the reservoir. Actuate the handle to force fluid against pressure gage to check setting of relief valve. Relief valve should actuate between 2,200 and 2,400 psi.

(5) Remove the pump from the reservoir and set the safety valve to operate in a similar manner at 1,950 to 2,150 psi.

f. Installation. Install the pump assembly (paragraph 39).

g. Testing.

(1) Set the jack up under a 5-ton load as directed in paragraphs 18 and 19.



1. PUMP HANDLE
2. PUMP HANDLE SOCKET
3. LOCKWASHER
4. PUMP PISTON PIN
5. SCREW
6. PUMP PACKING WIPER NUT
7. PUMP WIPER
8. PUMP SNAP RING
9. PUMP PISTON
10. SCREW
11. CHAIN
12. BACKUP RING
13. O-RING
14. SCREW
15. PIN ASSEMBLY
16. CHAIN
17. SCREW
18. PUMP BODY
19. SCREEN
20. PLUG
21. BALL
22. INTAKE VALVE SPRING
23. BALL
24. DISCHARGE VALVE SPRING
25. PUMP BODY GASKET
26. PUMP RESERVOIR
27. PLUG
28. AIR VENT INSTRUCTION DECALCOMANIA
29. VENT ASSEMBLY
30. CAPACITY DECALCOMANIA
31. PLUG
32. SAFETY VALVE ASSEMBLY
33. RELIEF VALVE ASSEMBLY
34. ELBOW, 90°
35. RELEASE STEM PACKING
36. RELEASE STEM PACKING NUT
37. BALL
38. RELEASE ASSEMBLY
39. PISTON PIN ROLLER

Figure 4. Pump Assembly, Exploded View.

(2) Operate the pump, filly extending the ram until pump bypass pressure is reached. Hold pressure against the load not less than fifteen minutes. There should be no apparent settling.

50. CYLINDER AND RAM ASSEMBLY.

a. Removal. Remove the cylinder and ram assembly (paragraph 40).

b. Disassembly.

(1) Remove the socket (16, figure 5), pin (15), chain (14), and the screw (13) from from cylinder assembly (12).

(2) Remove the rise indicator rod (32) from the rise indicator tube assembly (18). Remove the wingnut (26) that secures the tube to the indicator collar (27).

(3) Remove the pad socket (19) and the ram extension screw nut (23) from the extension screw (20). Remove the extension screw from the ram and nut assembly (17), releasing the extension screw retaining plunger (22) and the extension screw spring(21).

(4) Remove the four screws (24) that secure the indicator collar retainer (25) to the ram and nut assembly and remove the retainer, indication collar (27), and the indicator collar support (28) from the ram. Loosen the retaining screw in the ram locknut (29) and turn the locknut off the ram.

(5) Remove the upper bearing (31) from the cylinder assembly (12) and take the key assembly (30) out of the bearing.

(6) Pull the ram with attached parts out of the cylinder. Loosen the screw (33) and remove the ram pin (7) from the ram lower bearing (8). Remove the lower bearing, O-ring packing (9), backup ring (10), and the ram upper bearing (11) from the ram and nut assembly (17).

(7) Remove the 45-degree elbow (35) from the cylinder.

c. Cleaning, Inspection, and Repair.

(1) Clean all parts in cleaning solvent (Federal Specification P-D-680) and dry thoroughly with compressed air and a lint-free cloth.

(2) Inspect the bearings, ram and nut assembly, and cylinder assembly for nicks, burrs, minor abrasions, and for damaged threads. Check the clearance between the ram and the upper bearing. If the clearance exceeds 0.015 inch, replace the bearing. Check the clearance between the ram bearings and the cylinder bore. If the clearance exceeds 0.020 inch, replace the ram bearings. Remove nicks and burrs from all wearing surfaces and threads.

(3) Inspect all remaining parts for distortion and damaged threads. Replace if defective.

(4) Replace the O-ring and the backup ring.

(5) Retouch or repaint all painted surfaces as required (Federal Specification TT-E-489G, color 13538, Federal Standard 595A).

d. Reassembly.

(1) Install the 45-degree elbow (35) in the cylinder assembly (12).

(2) Install the ram upper bearing (11), backup ring (10), O-ring packing (9) and the ram lower bearing (8) on the ram and nut assembly (17) and secure with the ram pin (7) and the screw (33). Lubricate the installed bearings and O-ring with hydraulic oil and slide the ram with attached parts into the cylinder.

(3) Install the key assembly (30) in the upper bearing (31) and install the bearing in the cylinder, engaging the key with the key way in the ram.

(4) Install the ram locknut (29) on the ram and tighten the retaining screw in the locknut to secure. Place the indicator collar support (28), indicator collar (27) and the indicator collar retainer (25) on the ram and secure with the four screws (24).

(5) Insert the extension screw spring (21) and the extension screw retaining plunger (22) in the extension screw (20) and install the extension screw in the ram. Install the ram extension screw nut (23) and the pad socket (19) in the extension screw.

(6) Secure the rise indicator tube assembly (18) to the indicator collar (27) with the wingnut (26). Install the rise indicator rod (32) in the tub.

(7) Install the socket (16), pin (15), chain (14), and the screw (13) on the cylinder.

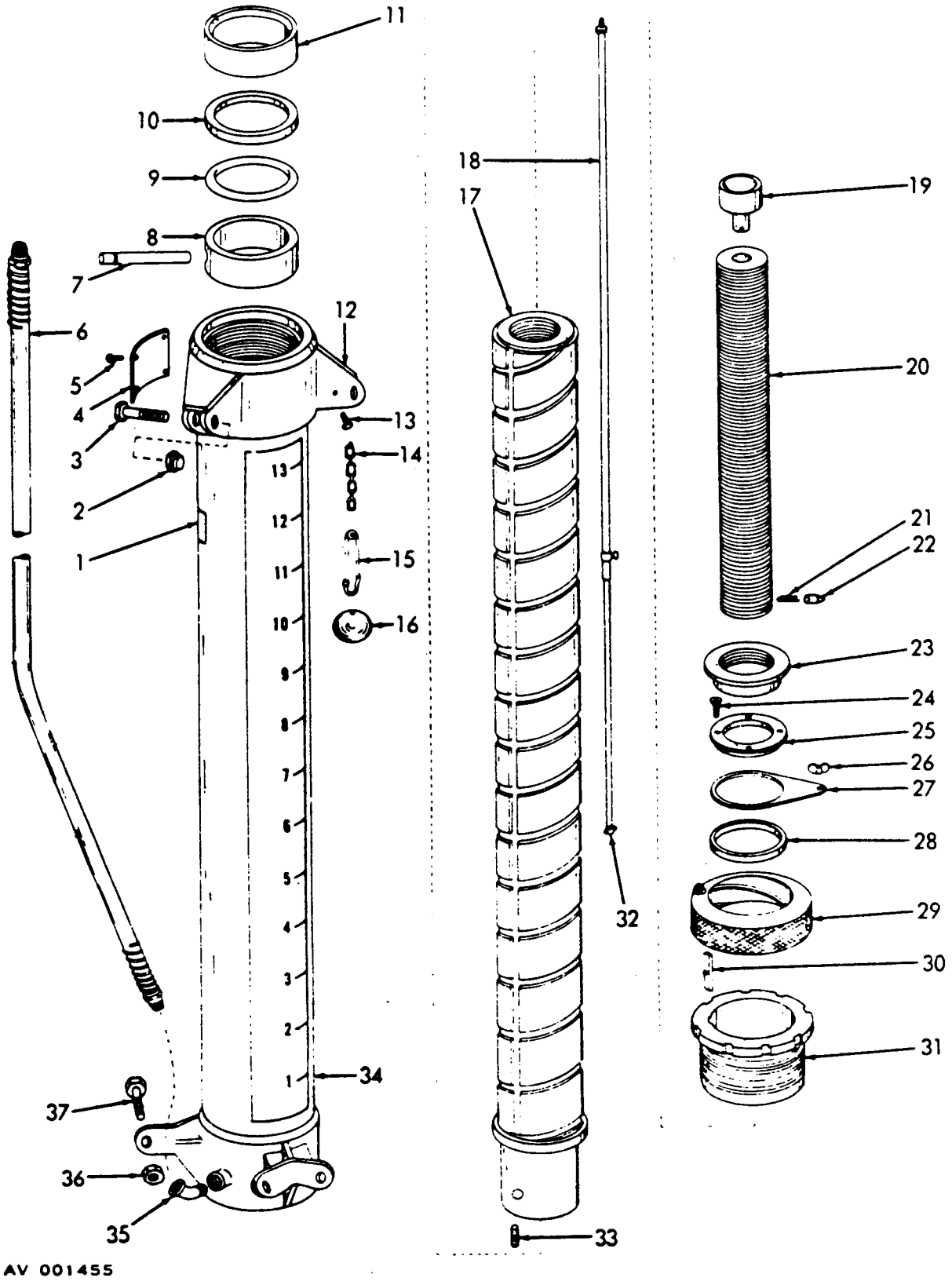
e. Installation. Install the cylinder assembly (paragraph 40).

f. Testing.

(1) Apply a five-ton load to the assembled jack as described in paragraph 49.

(2) There should be no leakage around the top of the cylinder.

(3) During the raising operation, check the ram locknut for free rotation on the ram.



1. Capacity decalcomania
2. Nut
3. Bolt
4. Nameplate
5. Drive screw (4 rqr)
6. Hose assembly
7. Ram pin
8. Ram lower bearing
9. O-ring packing

Figure 6. Cylinder and Ram Assembly, Exploded View.

10. Backup ring
11. Ram upper bearing
12. Cylinder assembly
13. Screw
14. Chain
15. Pin
16. Socket
17. Ram and nut assembly
18. Rise indicator tube assembly
19. Pad socket
20. Extension screw
21. Extension screw spring
22. Extension screw retaining plunger
23. Ram extension screw nut
24. Screw
25. Indicator collar retainer
26. Wing nut
27. Indicator collar
28. Indicator collar support
29. Ram locknut
30. Key assembly
31. Upper bearing
32. Rise indicator rod
33. Screw
34. Rise indicator decalcomania
35. Elbow, 45°
36. Nut
37. Bolt

Figure 5-Continued.

Section III. STRUCTURAL MEMBERS

51. CLAMP ASSEMBLY.

a. *Removal.* Remove the clamp assembly and the pump assembly (paragraph 39).

b. Disassembly.

(1) Remove the cam stud (1, figure 6), two washers (2 and 3), and the clamp cam (9) from the front half clamp (8).

(2) Remove the wingnut (4) from the clamp eyebolt (5). Remove the two rivets (6) only if necessary to replace defective rear half clamp (7), front half clamp (8), or clamp eyebolt (5).

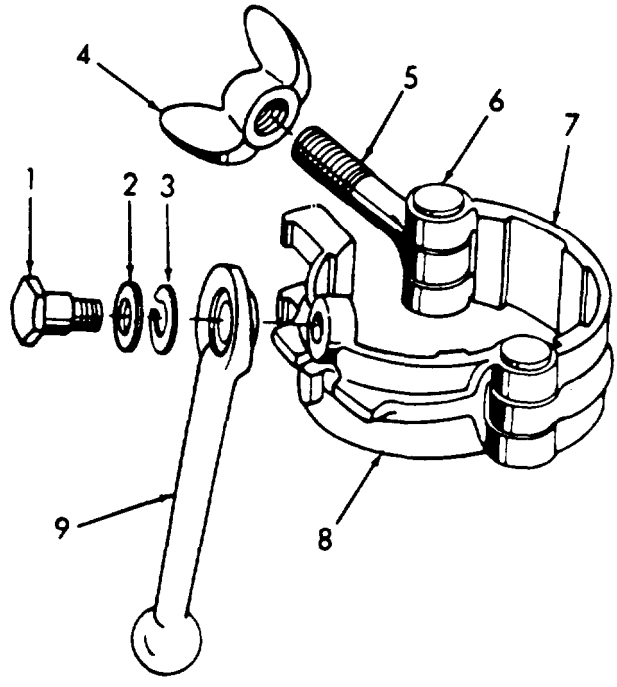


Figure 6. Clamp Assembly, Exploded View.

c. Cleaning, Inspection, and Repair.

(1) Clean all parts in cleaning solvent (Federal Specification P-D-680) and dry thoroughly.

(2) Inspect all part for cracks, breaks, distortion, and damaged threads. Remove nicks and burrs from threads and straighten distorted parts. Replace any part damaged beyond repair.

d. Reassembly.

(1) Install two new rivets (6) if removed during disassembly. Install the wingnut (4) on the clamp eyebolt (5).

(2) Install the clamp cam (9), two washers (2 and 3), and the cam stud (1) on tie front half clamp (8).

e. Installation. Install the pump assembly and the clamp assembly (paragraph 39).

52. TRIPOD ASSEMBLY.

a. Removal

(1) Remove the pump assembly (paragraph 39).

(2) Remove the cylinder and ram assembly (paragraph 40).

(3) Remove the foot assemblies (paragraph 42).

b. Disassembly.

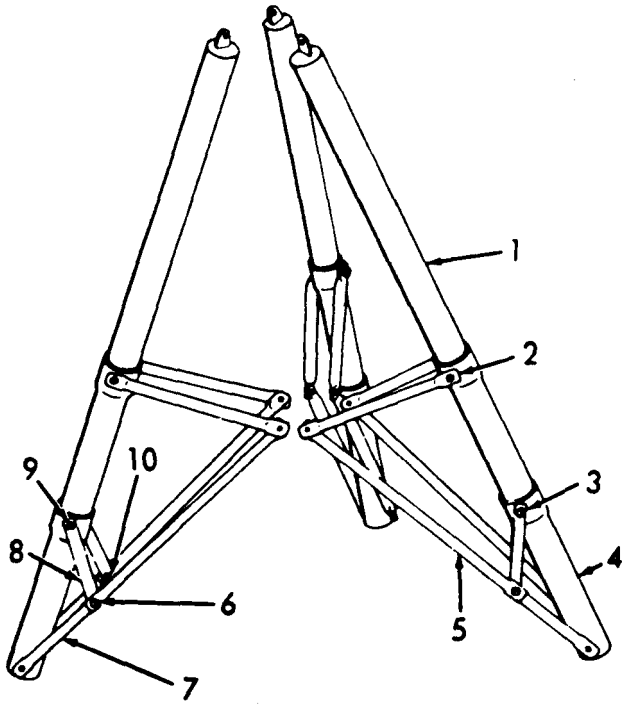
(1) Remove the nine nuts (6 and 9, figure 7), six bolts (3), and three studs (10) that secure the six no. 1 braces (2), six no. 2 braces (5), six no. 3 braces (7), and six links (8) to the leg extension (4) and remove the braces and links.

(2) Pull the six leg extensions off the three legs (1).

c. Cleaning, Inspection, and Repair.

(1) Clean all parts with cleaning solvent (Federal Specification P-D-680) and dry thoroughly.

(2) Inspect the legs, leg extensions, braces, and links for cracks, breaks, and distortion. Straighten bent or distorted items and repair



1	LEG	6	NUT
2	NO. 1 BRACE	7	NO. 3 BRACE
3	BOLT	8	LINK
4	LEG EXTENSION	9	NUT
5	NO. 2 BRACE	10	STUD

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Figure 7. Tripod Assembly, Exploded View.

cracks and breaks by welding. Replace all parts damaged beyond repair. Retouch or repaint as required (Federal Specification TT-E-489G, color 13538, Federal Standard 595A).

(3) Inspect all attaching hardware for distortion and damaged threads. Replace all defective parts.

d. Reassembly.

(1) Install the six leg extensions (4) on the three legs (1).

(2) Place the six no. 3 braces (7), six no. 2 braces (5), six no. 1 braces (2), and the six links (8) on the six leg extensions and secure with the three studs (10), six bolts (3), and nine nuts (6 and 9).

e. Installation.

(1) Install the foot assemblies (paragraph 42).

(2) Install the cylinder and ram assembly (paragraph 40).

(3) Install the pump assembly (paragraph 39).

CHAPTER 5

SHIPMENT AND LIMITED STORAGE AND DEMOLITION TO PREVENT ENEMY USE

Section I. SHIPMENT AND LIMITED STORAGE

53. PREPARATION OF EQUIPMENT FOR SHIPMENT.

a. Drain the oil from the pump assembly and the cylinder and ram assembly and refill with a suitable preservative oil.

b. Apply suitable preservatives to all exposed metal parts of the tripod hydraulic jack.

c. Reduce the overall dimensions of the jack with a minimum of disassembly. Wrap the jack and all loose parts in barrier material and seal with pressure-sensitive tape.

d. Pack the jack in a suitable wooden crate.

54. LIMITED STORAGE.

a. Inspection. Make a complete inspection of the jack as outlined in paragraph 7.

b. Cleaning and Painting. Clean the jack thoroughly, removing all rust and other forms of corrosion. After cleaning, paint all surfaces where the paint film has been damaged.

c. Lubrication and Preservation.

(1) Drain the oil from the pump assembly and the cylinder and ram assembly (paragraph 8) and fill with a suitable preservative oil.

(2) Lubricate the jack as directed an paragraph 24.

d. Protection. Cover the jack with a tarpaulin or provide other suitable protection when storing outdoors.

Section II. DEMOLITION OF MATERIAL TO PREVENT ENEMY USE

For demolition instructions, refer to TM 750-244-1-3.

APPENDIX A
REFERENCES

A-1. Dictionaries of Terms and Abbreviations.

AR 310-25 . . . . . Dictionary of United States Army Terms
AR 310-50 . . . . . Authorized Abbreviations and Brevity Codes

A-2. Publication Indexes.

DA Pam 25-30 . . . . . Consolidated Index of Army Publications and Blank Forms

A-3. Logistics and Storage.

TM 55-1500-204-25/1 . . . . . General Aircraft Maintenance Manual
TM 743-200 -1 . . . . . Storage and Materials Handling

A-4. Maintenance of Supplies and Equipment.

AR 750-1 . . . . . Army Material Maintenance Concepts and Policies
TM 43-0139 . . . . . Painting Operations Instructions for Field Use
DA Pam 738-751 . . . . . Functional User's Manual for the Army Maintenance Management System - Aviation (TAM MS-A)

A-5. Other Publications.

AR 420-90 . . . . . Fire Prevention and Protection
AR 55-38 . . . . . Reporting of Transportation Discrepancies in Shipments
AR 700-58 . . . . . Packaging Improvement Report
AR 750-5 . . . . . Maintenance Responsibilities and Shop Operation
DA PAM 310-13 . . . . . Military Publications Posting and Filing
FM-21-11 . . . . . First Aid for Soldiers
TB 43-180 . . . . . Calibration Requirements for the Maintenance of Army Materiel
TM 750-244 -1-3 . . . . . Procedures for the Destruction of Aviation Ground Support Equipment (FSC 1730) to Prevent Enemy Use

APPENDIX B

MAINTENANCE ALLOCATION CHART

1. PURPOSE.

The purpose of the maintenance allocation chart is to provide all activities with maintenance functions to be performed at each level of maintenance.

2. DEFINITIONS.

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. Maintenance functions will be limited to and defined as follows:

(1) *Inspect.* To determine serviceability of an item by comparing its Physical, mechanical, and electrical characteristics with estblished standards.

(2) *Test.* To verify serviceability and to detect electrical or mechanical failure by use of test equipment.

(3) *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.

(4) *Adjust.* To rectify to the extent necessary to bring into proper operating range.

(5) *Align.* To adjust specified variable elements of an item to bring to optimum performance.

(6) *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.

(7) *Install.* To set up for use in an operational environment such as an emplacement, site, or vehicle.

(8) *Replace.* To replace unserviceable items with serviceable assemblies, subassemblies, or parts.

(9) *Repair.* To restore an item to serviceable condition. This includes, but is not limited to, inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.

(10) *Overhaul.* To restore an item to a completely serviceable condition as prescribed by maintenance serviceabilty standards prepared and published for the specific item to be overhauled.

(11) *Rebuild.* To restore an item to a standard as nearly as possible to original or new condition in appearance, performance, and life expectancy. This is accomplish through complete disassembly of the item, inspection of all parts or components, repair or replacement of worn or unserviceable elements (items) using original manufacturing tolerances and specifications, and subsequent reassembly of the item.

(12) *Symbols.* The symbol O, F, H, or D placed in the appropriate column indicates the level responsible for performing that particular maintenance function. The symbol “%%” which applies to organizational maintenance indicates the level responsible for performing that particular maintenance function may be performed provided it ‘s specifically authorized by the direct support maintenance officer. Use of the symbol will apply only to replacement of major assemblies and time-consuming operations which are within the capabilities of organization, but over which control by the commodity commands is considered essential. In no case will the direct support maintenance officer require the accomplishment of a "%%" maintenance function by an organization or unit, and in no case will a "%%" function authorize stockage of parts at organizational level.

d. Column 4, Tools and Equipment. This column will be used to specify, by rode, those tools and test equipment required to perform the designated function.

e. Column 5, Remarks. Self-explanatory.

3. GENERAL.

a. A maintenance function assigned to a maintenance level, which for any reason is beyond its capability, becomes the responsibility of the next higher maintenance level.

b. The authority to perform a maintenance function does not constitute authority to requisition or otherwise secure necessary repair parts specified in current supply directives.

4. DEVIATIONS.

a. Normally, there will be no deviations from the assigned maintenance level. In cases of operational necessity, a maintenance function assigned to a maintenance level may, on a one-time basis and at the request of the lower maintenance level, be authorized to the lower maintenance level by the maintenance officer of the level to which the function assigned. The higher level of maintenance has the authority to determine:

(1) If the lower level is capable of performing the work.

(2) If the lower level will require assistance or technical supervision and on-site inspection.

(3) If the authorization will be granted.

b. The furnishing of special tools, equipment, and the like, required by the lower maintenance level to perform this function, will be the responsibility of the level to which the function is assigned.

5. ADDITIONAL INFORMATION.

a. Changes in the maintenance allocation chart will be based on continuing evaluation and analysis by responsible technical personnel and on Maintenance Request Forms DA 2407 received from field activities.

b. All maintenance prescribed herein will be performed in accordance with applicable publications.

c. In any instance of conflict with current tool and equipment lists or current supply manuals, this maintenance allocation chart will be the final authority. Each such instance should be promptly reported by Maintenance Request Form DA 2407.

MAINTENANCE ALLOCATION CHART FOR JACK, HYDRAULIC, TRIPOD

(AR 310-3)

(1) Group No.	(2) Functional group	(3) Maintenance function										(4) Tools and equipment	(5) Remarks
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild	
00	Jack, Hydraulic, Tripod Type B-5, 5-ton capacity	O		O	O	—	—	—			D	—	
	Controls												
01	Foot and Caster Assembly												
	Foot Asembly	O	—	—	—	—	—	—		O	—	—	
	Caster Assembly	O	—	—	—	—	—	—		O	—	—	
02	Pump Assembly	O	F	—	F	—	—	—	O	F	—	—	
03	Cylinder and Ram Assembly	O	F	—	—	—	—	—	O	F	—	—	
04	Clamp Assembly	O	—	—	—	—	—	—	O	F	—	—	
05	Tripod Assembly	O	—	—	—	—	—	—	—	O	—	—	

APPENDIX C

REPAIR PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

C-1. Scope. This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of Operator, Aviation Unit and Aviation Intermediate maintenance of the Tripod Hydraulic Jack. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

C-2. General. In addition to Section I, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair parts kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in this section. Items listed are shown on the associated illustration (s)/figure (s).

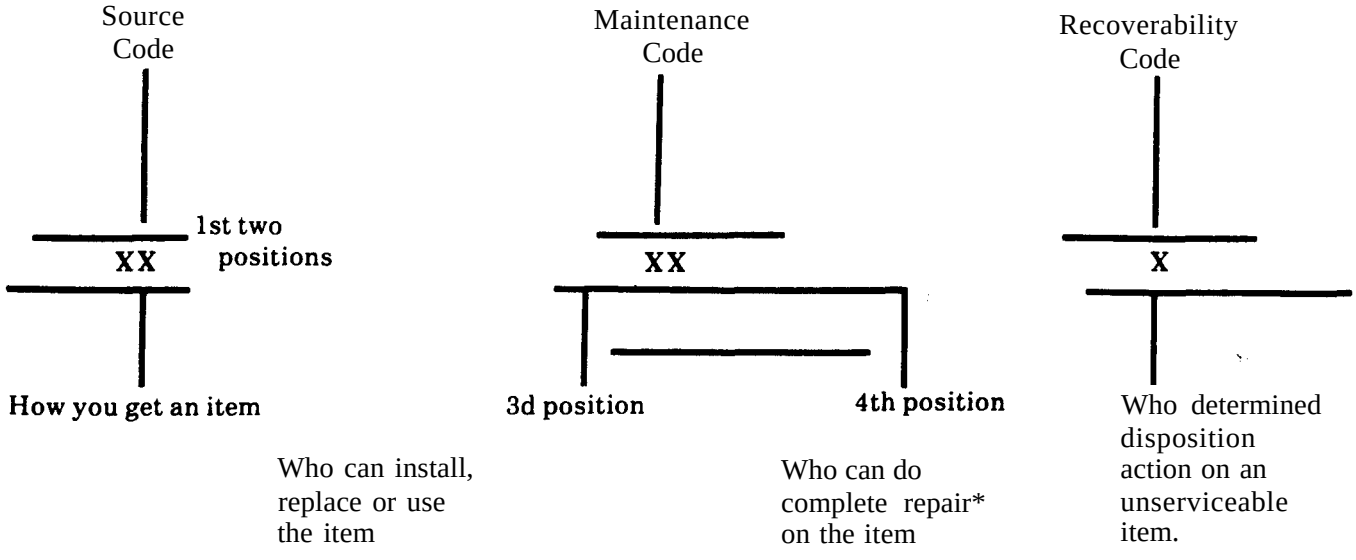
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USUABLE ON CODE column) for the performance of maintenance. (Not applicable).

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

C-3. Explanation of Columns (Sections II and III.

a. Item No. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR Code (Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:



*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code	Explanation
PA PB PC** PD PE PF PG	Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3d position of the SMR code. **NOTE: Items coded PC are subject to deterioration.
KD KF KB	Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.

CODE

MO- (Made at org/AVUM Level)
MF- (Made at DS/AVUM Level)
MH- (Made at GS Level)
ML- (Made at Specialized Repair Act (SRA))
MD. (Made at Depot)

tified by-the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the Bulk Material group of the repair parts list in this RPSTL. If the item is authorized to you by the 3d position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.

AO- (Assembled by org/AVUM Level)
AF- (Assembled by DS/AVIM Level)
AH- (Assembled by GS Category)
AL- (Assembled by SRA)
AD- (Assembled by Depot)

Items with these codes are not to be requested/requisitioned individually. The parts that make up these assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3d position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.

XA- Do not requisition an “XA’’-coded item. Order its next higher assembly. (Also, refer to the NOTE, below.)

XB- If an “XB” item is not availabe from salvage, order it using the FSCM and part number given.

XC- Installation drawing, diagram, instruction sheet, held service drawing, that is identified by manufacturer’s part number.

XD- Item is not stocked. Order an "XD" -coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

NOTE: Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 700-42.

(2) Maintenance Code. Maintenance codes tells you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR Code as follows:

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

Code	Application/Explanation
C	-Crew or operator maintenance done within organizational or aviation unit maintenance.
O	-Organizational or aviation unit category can remove, replace, and use the item.
F	-Direct support or aviation intermediate level can remove, replace, and use the item.
H	-General support level can remove, replace, and use the item.
L	-Specialized repair activity can remove, replace, and use the item.
D	-Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions). (NOTE: Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes.

CODE	Application/Explanation
O	-Organizational or (aviation unit) is the lowest level that can do complete repair of the item.
F	-Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
H	-General support is the lowest level that can do complete repair of the item.
L	-Specialized repair activity (designate the specialized repair activity) is the lowest level that can do complete repair of the item.
D	-Depot is the lowest level that can do complete repair of the item.
Z	-Nonreparable. No repair is authorized.
B	-No repair is authorized. (No parts or special tools are authorized for the maintenance of a “B” coded item). However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

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

Recoverability Codes	Application/Explanation
Z	-Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code.
O	-Reparable item. When uneconomically reparable, condemn and dispose of the item at organizational or aviation unit level.
F	-Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support or aviation intermediate level.
H	-Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
D	-Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L	-Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A	-Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. FSCM (Column (3)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. PART NUMBER (Column (4)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE: When you use a NSN to requisition an Item, the item you receive may have a different part number from the part ordered.

e. DESCRIPTION AND USABLE ON CODE (UOC) (Column (5)). This column includes the **following** information:

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) The physical security classification of the item is indicated by the parenthetical entry (insert applicable physical security classification abbreviation, e.g., Phy Sec C1 (C) -Confidential, Phy Sec C1 (S) -Secret, Phy Sec C1-Top Secret).

(3) Items that are included in kits and sets are listed below the name of the kit or set.

(4) Spare repair parts that make up an assembled item are listed immediately following the assembled item line entry.

(5) Part numbers for bulk materials are referenced in this column in the line item entry for the item to be manufactured fabricated.

(6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).

(7) The usable on code, when applicable (see paragraph 5, Special information).

(8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

(9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.

f. QTY (Column (6). The QTY (quantity per figure column) indicates the quantity of the item used in the breakdown shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

C-4. Explanation of Columns (Sect. IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) STOCK NUMBER Column. This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN (i.e., 5305-01-674-1467). When using this column to locate an item, ignore the first 4 digits of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) FIG. column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section III.

(3) ITEM column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. PART NUMBER INDEX. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers O through 9 and each following letter or digit in like order).

(1) FSCM column. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics Of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

(3) STOCK NUMBER column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left.

(4) FIG. column. This column lists the number of figure where the item is identified/located in Section II and III.

(5) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

C-5. Special Information. Use the following subparagraphs as applicable.

a. USABLE ON CODE. The usable on code appears in the lower left corner of the Description column heading. Usable codes are shown as "UOC: . . . . . " in the Description Column (justified left) on the first line applicable item description/nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes used in the RPSTL are:

Code	Used On
NOT APPLICABLE	

b. Fabrication Instructions. Bulk materials required to manufacture items are listed in the Bulk Material Functional Group of this RPSTL. Part numbers for bulk materials are also referenced in the description column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source codes to be manufactured or fabricated are not applicable.

c. Assembly Instructions. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are not applicable. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

d. Kits. Line item entries for repair parts kits appear in a group Section II. (Not Applicable).

e. INDEX NUMBERS. Items which have the word BULK in the figure column will have an index number shown in the item number column. This index number is a cross-reference between the National Stock Number/Part Number Index and the bulk material list in Section II.

f. Associated Publications. The publication(s) listed below pertain to (insert applicable equipment nomenclature) and its components:

Publication	Short Title
NOT APPLICABLE	

NOTE: Associated publications shall not be listed herein combined narrative and RPSTL manuals.

C-6. How to locate Repair Parts.

a. When National Stock Number or Part Number is Not Known.

(1) First. Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same group.

(2) Second. Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) Third. Identify the item on the figure and note the item number.

(4) Fourth. Refer to the Repair Parts Lists for the figure to find the part number for the item number noted on the figure.

(5) Fifth. Refer to the Part Number Index to find the NSN, if assigned

b. When National Stock Number or Part Number is Known:

(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see C-4.1(1). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see 4.b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

Pages 26 through 30 have been deleted.

INDEX

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 00. JACK,HYDRAULIC,TRIPOD, TYPE B-5	
				FIGURE 1. TRIPOD HYDRAULIC JACK	
1	PAFZZ	98750	49 B6450-2	TUBE ASSEMBLY,RISE.....	1
2	PBOZZ	98750	50 C25200	SCREW EXTENSION,HYD.....	1
3	PBFZZ	98750	50B25204	RAM,JACK,HYDRAULIC.....	1
4	XCFZZ	80049	43 A12190-2	RAM LOCKNUT.....	1
5	XCFZZ	98750	50 D25183	CYLINDER,RAM,TRIPOD (SEE FIGURE 5 FOR BREAKDOWN).....	1
6	PBOZZ	98750	50B25196	LEG,JACK,TRIPOD.....	1
7	PBOZZ	98750	50B25212	BRACE,JACK,TRIPOD.....	6
8	PBOZZ	98750	50C25210	BRACE,TRIPOD,HYDRAU.....	6
9	PBOZZ	98750	50B25234	LEG,EXTENSION,TRIPO.....	6
10	XDOZZ	98750	5025189	CONNECTING LINK,RIG.....	6
11	XDOZZ	98750	50B25215	BRACE JACK TRIPOD.....	6
12	PBOZZ	98750	53D6830	FOOT,HYDRAULIC JACK (SEE FIGURE 3 FOR BREAKDOWN).....	3
13	PAFZZ	98750	51D7139	PUMP,HYDRAULIC,HAND (SEE FIGURE 4 FOR BREAKDOWN).....	1
14	PBOZZ	98750	53B7307	CLAMP ASSEMBLY,HYDR (SEE FIGURE 6 FOR BREAKDOWN).....	1
				END OF FIGURE	

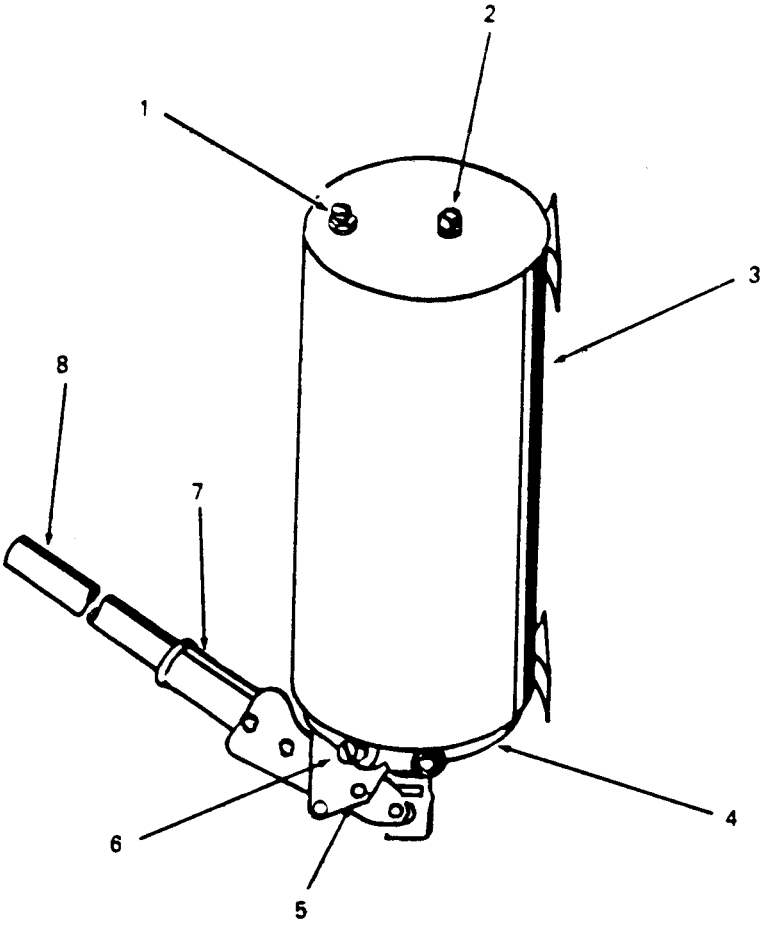


Figure 2. Controls

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 00. JACK, HYDRAULIC, TRIPOD TYPE B-5	
				FIGURE 2. CONTROLS	
1	PBFZZ	98750	50B7763	VENT ASSEMBLY,AIR J	1
2	PBOZZ	96906	MS20913-3S	PLUG,PIPE	1
3	XCFZZ	98750	50C25220-1	PUMP RESERVIOR	1
4	XCFZZ	89750	52D6861	BODY PUMP TRIPOD	1
5	XDFZZ	80049	42A13016	ROLLER TRIPOD JACK	1
6	PAOZZ	98750	42A12998	RELEASE ASSEMBLY,TR	1
7	PBOZZ	80049	48C7860	SOCKET,JACK HANDLE	1
8	PBFZZ	98750	48B7861	HANDLE,PUMP,HYDRAUL	1
				END OF FIGURE	

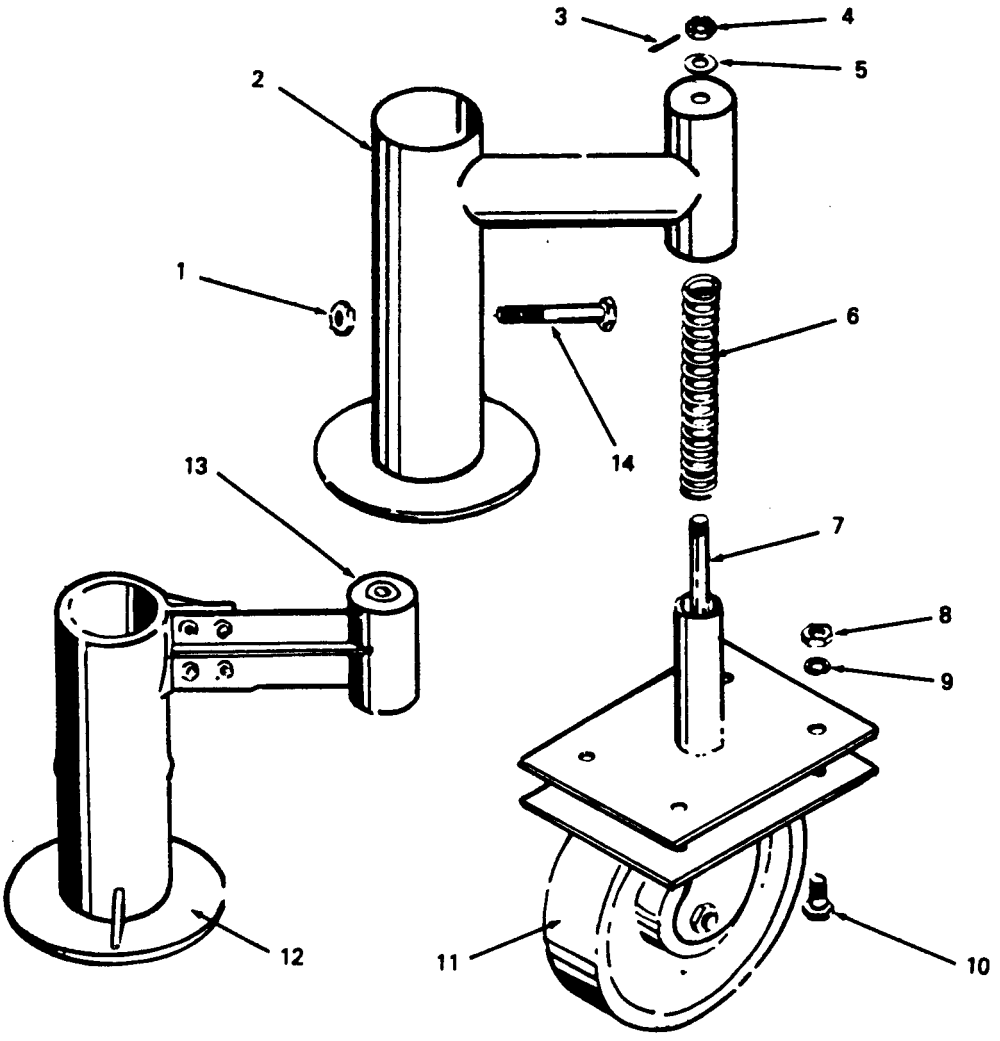


Figure 3. Foot Assembly, Exploded View

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 01. FOOT AND CASTER ASSEMBLY	
				FIGURE 3. FOOT ASSEMBLY	
1	PBFZZ	96906	MS21044N7	NUT,SELF-LOCKING,HE.....	1
2	PBOZZ	98750	53 D6830	FOOT,HYDRAULIC JACK.....	3
3	XCFZZ	96906	MS24665-300	.PIN,COTTER.....	1
4	PAFZZ	88044	AN320-6	.NUT,PLAIN,SLOTTED,H.....	1
5	PBFZZ	88044	AN960-616	.WASHER,FLAT.....	1
6	PBFZZ	77535	1X8MHD	.SPRING.....	3
7	PBFZZ	98750	53C6832	.MOUNT,JACK CASTER.....	1
8	PBFZZ	96906	MS51967-14	.NUT,PLAIN,HEXAGON.....	4
9	PAFZZ	96906	MS35338-48	.WASHER,LOCK.....	4
10	XCFZZ	80049	65-8-14	.BOLT.....	4
11	PBFZZ	96906	MS24380-6SU	.CASTER,SWIVEL.....	1
12	XCFZZ	98750	53C7258	.FOOT.....	1
13	XCFZZ	98750	53C7259	..HOUSING.....	1
14	XCFZZ	99938	60-7-34	..BOLT.....	1
				END OF FIGURE	

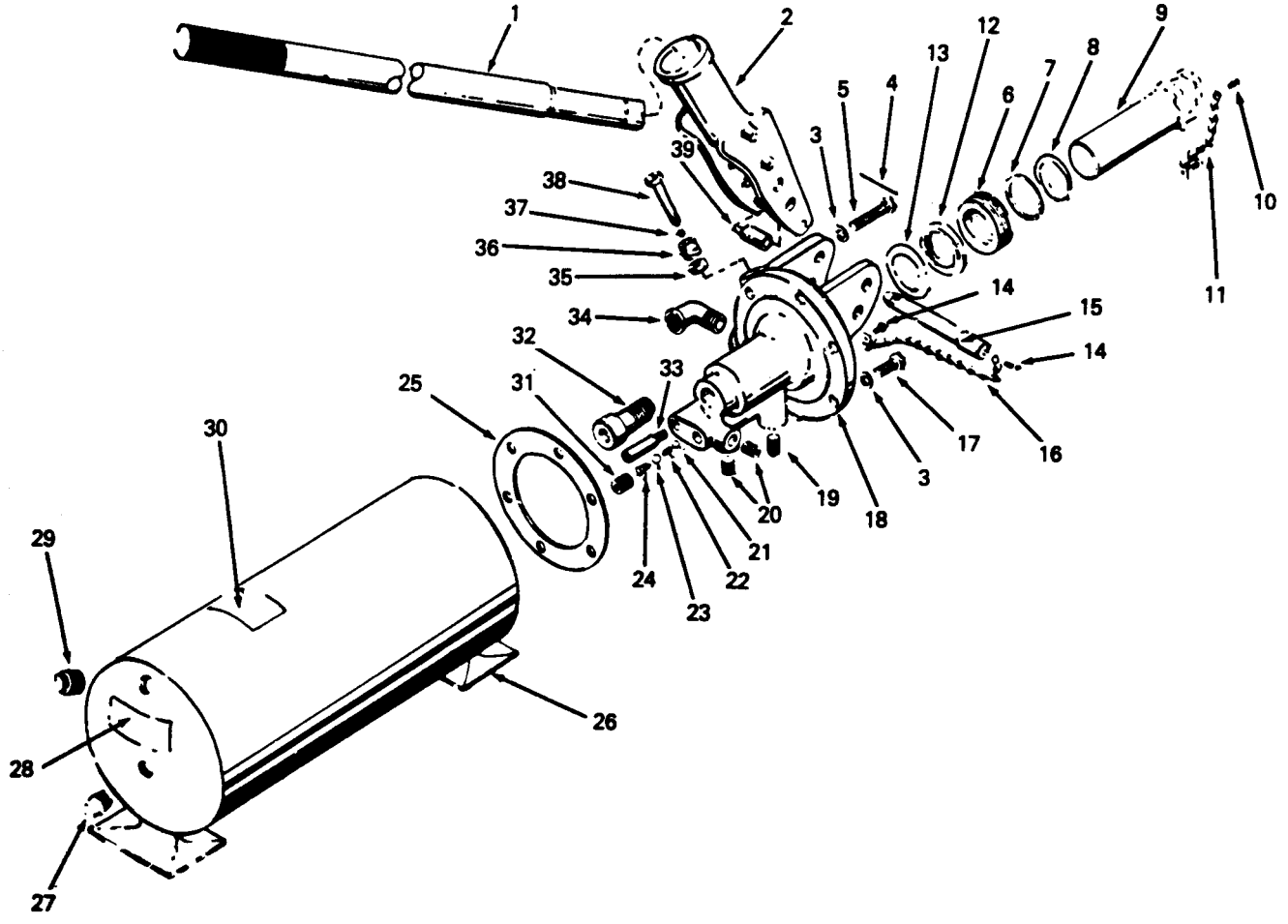


Figure 4. Pump Assembly, Exploded View

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 02. PUMP ASSEMBLY	
				FIGURE 4. PUMP ASSWMBLY	
	PAFZZ	98750	51D7139	PUMP,HYDRAULIC,HAND	1
1	PBFZZ	98750	48B7861	.HANDLE,PUMP,HYDRAUL	1
2	XBFZZ	80049	48C7860	.SOCKET,JACK HANDLE	1
3	XCFZZ	80049	48A7858	.LOCKWASHER	6
4	PBFZZ	80049	42A13017	.PIN,STRAIGHT,HEADLE	1
5	XCFZZ	80049	MS16998-76	.SCREW	2
6	XDFZZ	98750	52B6864	.NUT,PACKING	1
7	PBFZZ	98750	48A7880	.FELT,MECHANICAL,PRE	1
8	XCFZZ	98750	48A7866	.PUMP SNAP RING	1
9	PBFZZ	80049	52B6863	.PISTON,PUMP	1
10	PAFZZ	96906	MS21318-41	.SCREW,DRIVE	1
11	XCFZZ	80205	NAS1455B00-6	.CHAIN	1
12	XCFZZ	98750	48B7863-2	.RETAINER,PACKING	1
13	PBFZZ	96906	MS28775-218	.PACKING,PREFORMED	1
14	PAFZZ	96906	MS21318-41	.SCREW,DRIVE	2
15	PBFZZ	98750	43A12196	.PIN,TRIPOD JACK	1
16	XCFZZ	80205	NAS1455B00-6	.CHAIN	1
17	XCFZZ	96906	MS16988-72	.SCREW	4
18	XDFZZ	98750	52D6861	.BODY,PUMP,TRIPOD	1
19	XCFZZ	57771	D2421	.SCREEN	1
20	PBFZZ	96906	MS27769U2	.PLUG,PIPE	2
21	XCFZZ	96906	MS19059-49	.BALL	1
22	PBFZZ	80049	42A13003	.SPRING,HELICAL,COMP	1
23	XCFZZ	96906	MS19059-52	.BALL	1
24	XCFZZ	98750	42A13004	.DISCHARGE VALVE	1
25	XCFZZ	98750	42A13025	.GASKET	1
26	XCFZZ	98750	50C25220-1	.PUMP RESERVIOR	1
27	PBFZZ	96906	MS20913-3S	.COUPLING HALF,QUICK	1
28	XCFZZ	98750	43A12145	.AIR VENT INSTRUCTIO	1
29	PBFZZ	98750	50B7763	.VENT ASSEMBLY,AIR J	1
30	XCFZZ	98750	42A13047-2	.CAPACITY DECAL	1
31	XDFZZ	96906	MS27769U3	.PLUG,PIPE	1
32	XCFZZ	80049	43A12192-2	.SAFETY VALVE ASSEMB	1
33	XCFZZ	80049	43A12191-2	.RELIEF VALVE ASSEMB	1
34	PBFZZ	96906	MS20822-8	.ELBOW,PIPE TO TUBE	1
35	PBFZZ	80049	42A13021	.PACKING,PREFORME	1
36	PBFZZ	80049	42A13022	.NUT-PACKING RELEASE	1
37	XCFZZ	96906	MS19059-49	.BALL	1
38	PAFZZ	98750	42A12998	.RELEASE ASSEMBLY,TR	1
39	XDFZZ	80049	42A13016	.ROLLER,TRIPOD JACK	1

END OF FIGURE

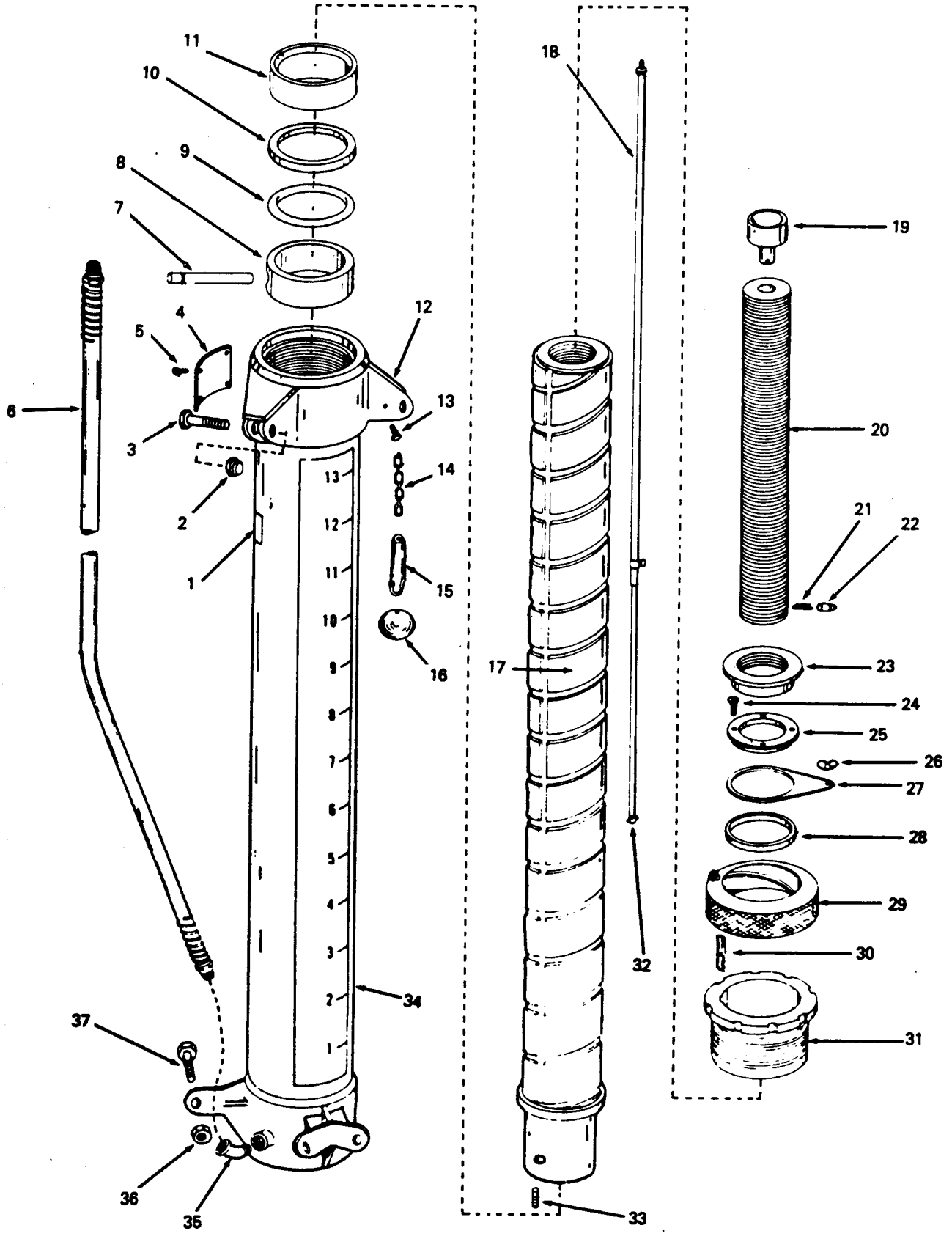


Figure 5. Cylinder end Ram Assembly, Exploded View

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 03. CYLINDER & RAM ASSEMBLY	
				FIGURE 5. CYLINDER AND RAM ASSEMBLY	
1	XCFZZ	80049	42 A13047-2	CAPACITY DECAL COMAN.....	1
2	PAFZZ	96906	MS21044N8	NUT,SELF-LOCKING,HE.....	3
3	PBFZZ	88044	AN8-16A	BOLT,MACHINE.....	3
4	XCFZZ	80049	50A25155	NAMEPLATE.....	1
5	PBFZZ	96906	MS21318-7	SCREW,DRIVE.....	4
6	XCFZZ	80049	6C-8FJSR-36	HOSE ASSEMBLY.....	1
7	XCFZZ	80049	50A25186	RAMPIN.....	1
8	XCFZZ	98750	50A25151	BEARING,SLEEVE.....	1
9	XCFZZ	88044	AN6227-34	O-RING PACKING.....	1
10	PBFZZ	80049	50B25175-3	RETAINER,PACKIN.....	1
11	PAFZZ	80049	50A25232	BEARING,SLEEVE.....	1
12	XCFZZ	98750	50D25183	CYLINDER,RAM,TRIPOD.....	1
13	PBFZZ	96906	MS21318-41	.SCREW,DRIVE.....	1
14	XCFZZ	80205	NAS1455B00-6	.CHAIN.....	1
15	PAFZZ	12936	JC-11636	.PIN,RETAINING.....	1
16	PBOZZ	98750	42A7529	.SOCKET,JACK PAD.....	1
17	PBFZZ	98750	50B25204	.RAM,JACK,HYDRAULIC.....	1
18	PAFZZ	98750	49B6450-2	.TUBE ASSEMBLY,RISE.....	1
19	XBOZZ	98750	50B25164	.SOCKET,JACK PAD.....	1
20	PBOZZ	98750	50C25200	.SCREW EXTENSION,HYD.....	1
21	PBFZZ	98750	42A12989	.SPRING,HELICAL,COMP.....	1
22	PBFZZ	98750	42A12988	.PLUNGER,JACK EXTENS.....	1
23	PBFZZ	80049	50B25231	.NUT PLAIN KNURL.....	1
24	XDOZZ	88044	AN505-3R5	.SCREW,MACHINE.....	4
25	XBOZZ	98750	50A25170	.RETAINER,JACK,INDIC.....	1
26	XCFZZ	96906	MS35426-6	.WING NUT.....	1
27	XBOZZ	98750	50A25171	.COLLAR,JACK,INDICAT.....	1
28	XCFZZ	98750	50A25237	.INDICATOR COLLAR SU.....	1
29	XCFZZ	80049	43A12190-2	.RAM LOCKNUT.....	1
30	XCFZZ	98750	43A12189-2	.KEY ASSEMBLY,JACK.....	1
31	XBOZZ	80049	42B15083	.BEARING,RAM.....	1
32	PBOZZ	98750	48A7878-2	.ROD,INDICATOR,JACK.....	1
33	XCFZZ	88044	AN565A2-3	.SCREW.....	1
34	XCFZZ	80049	42A13047-2	.CAPACITY DECAL COMA.....	1
35	XCFZZ	80049	6MAX-8JMS	.ELBOW 45 DEGREE.....	1
36	PBFZZ	96906	MS21044N7	.NUT,SELF-LOCKING,HE.....	6
37	XCFZZ	99938	60-7-4	.BOLT.....	6
	PAOZZ	12936	JC-11636	.PIN,RETAINING.....	1
				END OF FIGURE	

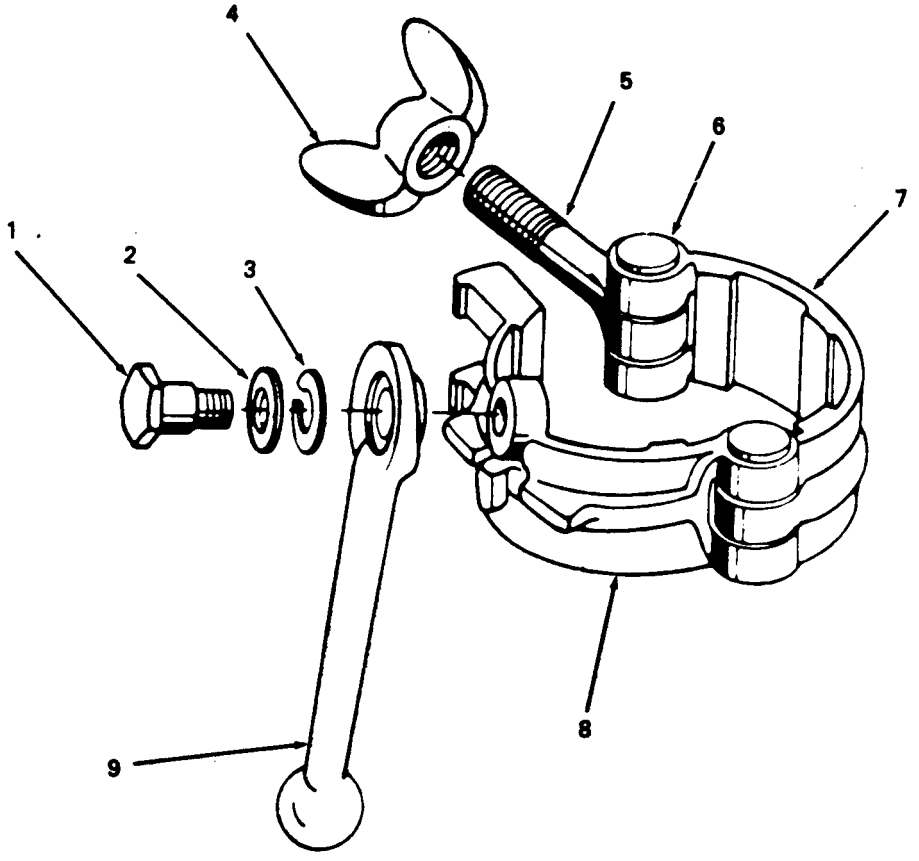


Figure 6. Clamp Assembly, Exploded View

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 04. CLAMP ASSEMBLY	
				FIGURE 6. CLAMP ASSEMBLY	
	PBOZZ	98750	53B7307	CLAMP ASSEMBLY, HYDR	1
1	XCFZZ	98750	42A13049	.STUD CAM	1
2	PBOZZ	88044	AN960-816	.WASHER, FLAT	1
3	XCFZZ	88044	AN935-816L	.WASHER LOCK	1
4	XCFZZ	98750	42A13046-3	.WING NUT	1
5	XCFZZ	98750	42A13052	.BOLT EYE	1
6	XCFZZ	88044	AN435-10-20P	.RIVET	2
7	XCFZZ	98750	53C7308	.REAR HALF CLAMP	1
8	XCFZZ	98750	53C7309	.FRONT HALF CLAMP	1
9	XDOZZ	98750	42B13048	.HANDLE, CAM	1
				END OF FIGURE	

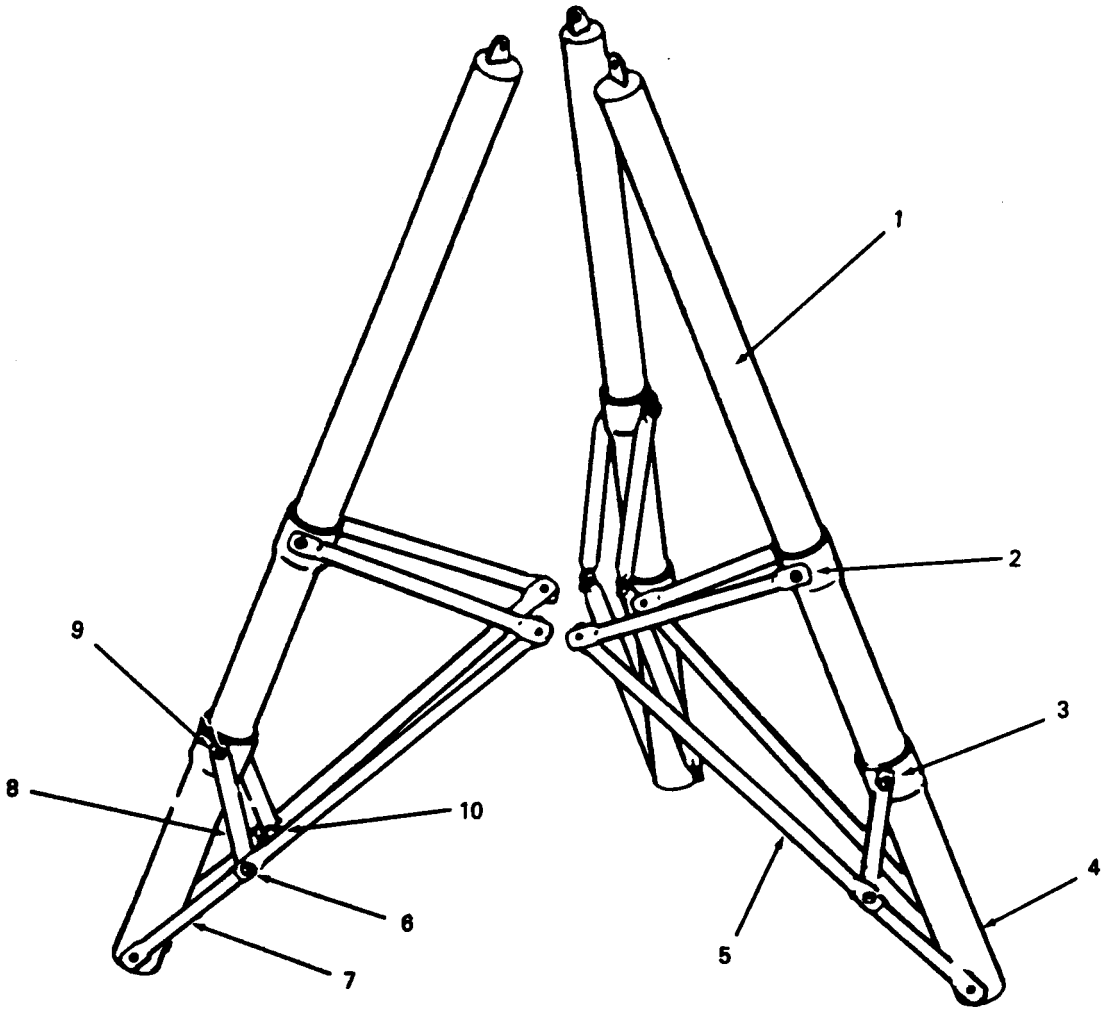


Figure 7. Tripod Assembly, Exploded View

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
				GROUP 05. TRIPOD ASSEMBLY	
				FIGURE 7. TRIPOD ASSEMBLY	
1	PBOZZ	98750	50B25196	LEG,JACK,TRIPOD	1
2	PBOZZ	98750	50B25212	BRACE,JACK,TRIPOD	6
3	XCFZZ	96906	MS35292-97	BOLT	9
4	PBOZZ	98750	50B25234	LEG,EXTENSION,TRIPO	6
5	PBOZZ	98750	50C25210	BRACE,TRIPOD,HYDRAU	6
6	XCFZZ	96906	MS21044N7	NUT,SELF-LOCKING,HE	6
7	XDOZZ	98750	50B25215	BRACE,JACK,TRIPOD	6
8	XDOZZ	98750	50A25189	CONNECTING LINK,RIG	6
9	XCFZZ	96906	MS21044N7	NUT,SELF-LOCKING,HE	6
10	XCFZZ	98750	50A25247	STUD	3
				END OF FIGURE	

CROSS-REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG.	ITEM
1730-00-030-8377	1	7
	7	2
1730-00-030-8379	1	9
	7	4
1730-00-030-8381	1	8
	7	5
1730-00-035-6626	1	6
	7	1
1730-00-035-6628	1	3
	5	17
1730-00-035-6638	1	2
	5	20
1730-00-035-6652	1	13
	4	
1730-00-035-6673	4	9
1730-00-035-6681	1	14
	6	
5310-00-088-0552	3	1
	5	36
5330-00-141-3588	5	10
5310-00-167-0821	3	5
5310-00-167-0823	6	2
5310-00-176-8110	3	4
5306-00-208-3671	5	3
1730-00-212-4500	2	1
	4	29
4730-00-231-3013	4	34
5305-00-253-5606	5	5
5305-00-253-5622	4	10
	4	14
	5	13
4730-00-278-2973	4	20
5315-00-297-3473	4	4
5360-00-331-6400	5	21
5315-00-347-5678	5	
	5	15
1730-00-394-5726	5	32
1730-00-492-3328	5	22
5330-00-492-3341	4	35
5310-00-492-3342	4	36
1730-00-492-3373	5	16
1730-00-492-3979	4	7
1730-00-492-4002	2	8
	4	1
1730-00-492-4024	2	7
1730-00-509-8182	2	6
	4	38
1730-00-511-1641	1	1
	5	18
3120-00-517-8302	5	11
4730-00-555-0592	2	2
	4	27
5360-00-568-0690	4	22
5330-00-584-0263	4	13
5310-00-584-5272	3	9
5310-00-596-6781	5	23
1730-00-670-9861	3	7
1730-00-670-9869	4	15
5310-00-768-0318	3	8
5340-00-804-2244	3	11
1730-00-861-3066	1	12
	3	2
5310-00-877-5795	5	2

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
88044	AN320-6	5310-00-176-8110	3	4
88044	AN435-10-20P		6	6
88044	AN505-3R5		5	24
88044	AN565A2-3		5	33
88044	AN6227-34		5	9
88044	AN8-16A	5306-00-208-3671	5	3
88044	AN935-816L		6	3
88044	AN960-616	5310-00-167-0821	3	5
88044	AN960-816	5310-00-167-0823	6	2
57771	D2421		4	19
12936	JC-11636	5315-00-347-5678	5	
			5	15
96906	MS16988-72		4	17
80049	MS16998-76		4	5
96906	MS19059-49		4	21
			4	37
96906	MS19059-52		4	23
96906	MS20822-8	4730-00-231-3013	4	34
96906	MS20913-3S	4730-00-555-0592	2	2
			4	27
96906	MS21044N7	5310-00-088-0552	3	1
			5	36
			7	1
			7	9
96906	MS21044N8	5310-00-877-5795	5	2
96906	MS21318-41	5305-00-253-5622	4	10
			4	14
			5	13
96906	MS21318-7	5305-00-253-5606	5	5
96906	MS24380-6SU	5340-00-804-2244	3	11
96906	MS24665-300		3	3
96906	MS27769U2	4730-00-278-2973	4	20
96906	MS27769U3		4	31
96906	MS28775-218	5330-00-584-0263	4	13
96906	MS35292-97		7	3
96906	MS35338-48	5310-00-584-5272	3	9
96906	MS35426-6		5	26
96906	MS51967-14	5310-00-768-0318	3	8
80205	NAS1455B00-6		5	14
80205	NAS1455B00-6		4	11
			4	16
77535	1X8MHD		3	6
98750	42A12988	1730-00-492-3328	5	22
98750	42A12989	5360-00-331-6400	5	21
98750	42A12998	1730-00-509-8182	2	6
			4	38
80049	42A13003	5360-00-568-0690	4	22
98750	42A13004		4	24
80049	42A13016		2	5
			4	39
80049	42A13017	5315-00-297-3473	4	4

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
80049	42A13021	5330-00-492-3341	4	35
80049	42A13022	5310-00-492-3342	4	36
98750	42A13025		4	25
98750	42A13046-3		6	4
98750	42A13047-2		4	30
			5	1
			5	34
98750	42A13049		6	1
98750	42A13052		6	5
98750	42A7529	1730-00-492-3373	5	16
98750	42B13048		6	9
80049	42B15083		5	31
98750	43A12145		4	28
98750	43A12189-2		5	30
80049	43A12190-2		1	4
			5	29
80049	43A12191-2		4	33
80049	43A12192-2		4	32
98750	43A12196	1730-00-670-9869	4	15
80049	48A7858		4	3
98750	48A7866		4	8
98750	48A7878-2	1730-00-394-5726	5	32
98750	48A7880	1730-00-492-3979	4	7
98750	48B7861	1730-00-492-4002	2	8
			4	1
98750	48B7863-2		4	12
80049	48C7860	1730-00-492-4024	2	7
			4	2
98750	49B6450-2	1730-00-511-1641	1	1
			5	18
98750	50A25151		5	8
80049	50A25155		5	4
98750	50A25170		5	25
98750	50A25171		5	27
80049	50A25186		5	7
98750	50A25189		7	8
80049	50A25232	3120-00-517-8302	5	11
98750	50A25237		5	28
98750	50A25247		7	10
98750	50B25164		5	19
80049	50B25175-3	5330-00-141-3588	5	10
98750	50B25196	1730-00-035-6626	1	6
			7	1
98750	50B25204	1730-00-035-6628	1	3
			5	17
98750	50B25212	1730-00-030-8377	1	7
			7	2
98750	50B25215		1	11
			7	7
80049	50B25231	5310-00-596-6781	5	23
98750	50B25234	1730-00-030-8379	1	9

CROSS-REFERENCE INDEXES

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
98750	50B25234	1730-00-030-8379	7	4
98750	50B7763	1730-00-212-4500	2	1
			4	29
98750	50C25200	1730-00-035-6638	1	2
			5	20
98750	50C25210	1730-00-030-8381	1	8
			7	5
98750	50C25220-1		2	3
			4	26
98750	50D25183		1	5
			5	12
98750	5025189		1	10
98750	51D7139	1730-00-035-6652	1	13
			4	
80049	52B6863	1730-00-035-6673	4	9
98750	52B6864		4	6
89750	52D6861		2	4
			4	18
98750	53B7307	1730-00-035-6681	1	14
			6	
98750	53C6832	1730-00-670-9861	3	7
98750	53C7258		3	12
98750	53C7259		3	13
98750	53C7308		6	7
98750	53C7309		6	8
98750	53D6830	1730-00-861-3066	1	12
			3	2
80049	6C-8FJSR-36		5	6
80049	6MAX-8JMS		5	35
99938	60-7-34		3	14
99938	60-7-4		5	37
80049	65-8-14		3	10

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B1		4-3		Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please Correct one or the Other.
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1 Kilometer = 1000 Meters = 0.621 Miles

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Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
1 Kilogram = 1000 Grams = 2.2 lb.
1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

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1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

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1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

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1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

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90° Fahrenheit is equivalent to 32.2° Celsius
32° Fahrenheit is equivalent to 0° Celsius
9/5C° + 32 =°F

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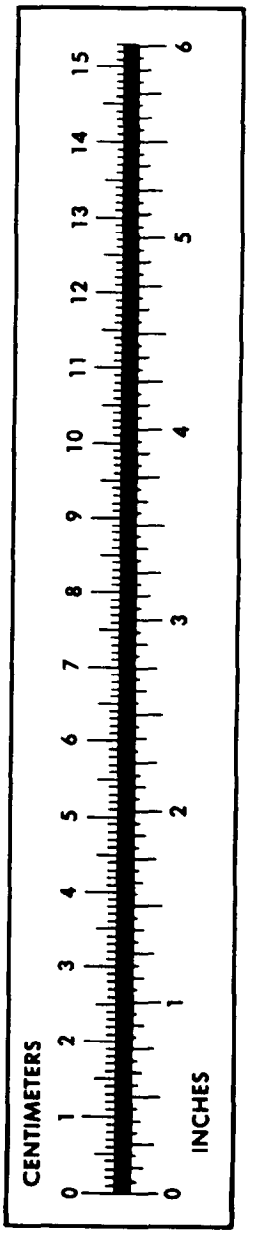
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
ıts	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
lometers per Liter	Miles per Gallon	2.354
meters per Hour	Miles per Hour	0.621



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