

TM 55-1730-215-13&P

TECHNICAL MANUAL

**OPERATOR'S, AVIATION UNIT,
AND INTERMEDIATE MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)**

MAINTENANCE PLATFORM

ADJUSTABLE, AIRCRAFT

PART NUMBER 54J6345

(TYPE B-4A)

NSN 1730-00-294-8883

THIS TECHNICAL MANUAL SUPERSEDES TM 55-1730-215-13, 26 JULY 1971, INCLUDING ALL CHANGES.

**This copy is a reprint which includes current
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19 AUGUST 1982

CHANGE

NO. 5

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Operator's, Aviation Unit, and Intermediate
Maintenance Manual
(Including Repair Parts and Special Tools List)

**MAINTENANCE PLATFORM ADJUSTABLE, AIRCRAFT
PART NUMBER 54J6345 (TYPE B-4A)
NSN 1730-00-294-8883**

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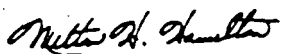
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Operator's, Aviation Unit, and Intermediate
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WARNING

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

WARNING

CLEANING SOLVENT. Cleaning solvent may be toxic. Use in a well ventilated area. Avoid prolonged inhalation of fumes or direct contact with skin. Do not use solvent near open flame or in area where very high temperatures prevail.

WARNING

SAFETY LOCK PINS. Always install lock pins when desired height is attained.

WARNING

STANDING ON LADDER. Do not raise or lower platform while standing on ladder.

WARNING

TOWING. Do not exceed 5 mph. Ensure caster brakes are released, front swivel casters unlocked, and rear swivel casters locked.

WARNING

CAPACITY. Do not exceed 500 lb. load limit.

WARNING

GUARD RAILS. Do not work from platform without side and end rails properly installed.

WARNING

INJURY. For first aid to injury, refer to FM 21-11.

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WASHINGTON, D.C., 19 August 1982

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Current As Of 23 April 1993

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished to you.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE

a. This technical manual includes Operator, Aviation Unit Maintenance (Avum), and Aviation **Intermediate** Maintenance (AVIM) Instructions for the Platform, Aircraft Maintenance Type B-4A, Figure 1-1.

b. *Equipment Name and Type Number.* Platform, Aircraft Maintenance, Type B-4A. An identification name-plate is located on the upper frame assembly at the rear cross member near the upper ladder mounting brackets. A warning plate and a service instruction plate are also located on this cross member.

c. *Purpose of Equipment.* The Platform is an adjustable height assembly to be used as an elevated work platform during aircraft maintenance.

d. *Special Limitations on Equipment.*

(1) Maximum Load Capacity: 500 Pounds.

(2) Maximum Towing Speed: 5 MPH.

1-2. MAINTENANCE FORM, RECORDS AND REPORTS. Department of the Army Forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-751 Functional User Manual for the Army Maintenance System-Aviation (TAMMS-A).

1-3. DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE. Refer to TM 750-244-1-3, procedure for Destruction of Aviation Support Equipment (FSC 1700) for instructions on destroying this equipment.

1-4. PREPARATION FOR STORAGE OR SHIPMENT. Refer to Chapter 3, Section VI.

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR). EIRs can and must be submitted by anyone who is aware of an unsatisfactory condition with the equipment design or use. It is not necessary to show a new design or list a better way to perform a procedure, just simply tell why the design is unfavorable or why a procedure is difficult. EIR may be submitted on SF 368 (Quality Deficiency Report). Mail directly to: Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MDO, 4300 Goodfellow Blvd, St. Louis, MO 63120-1798. A reply will be furnished to you. ■

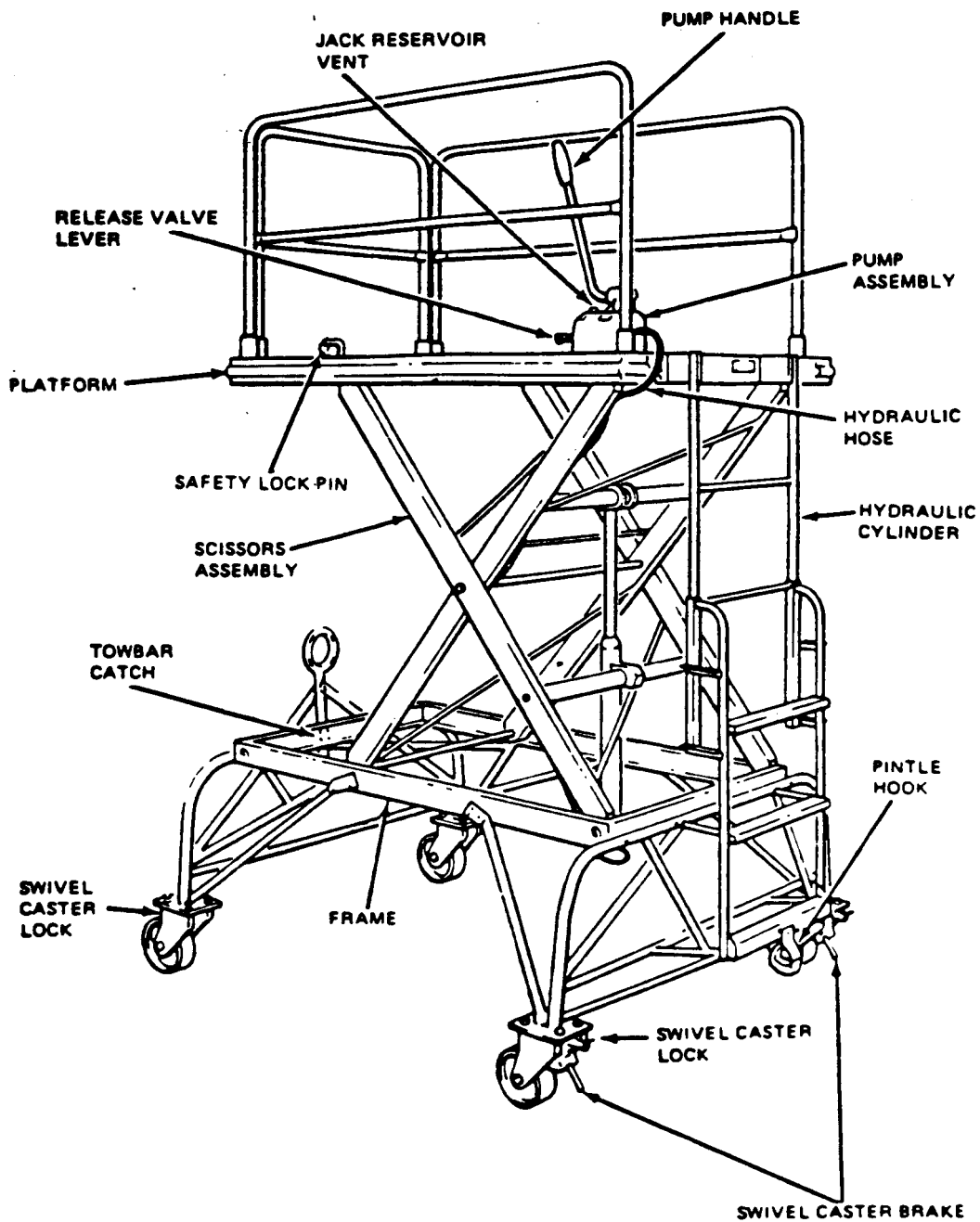


Figure 1-1. Platform, Aircraft Maintenance, Type B-4A.

Section II

EQUIPMENT DESCRIPTION AND DATA

1-6. CHARACTERISTICS.

The Platform, Aviation Maintenance, Type B-4A, is a hydraulically operated, adjustable platform and ladder assembly mounted on a caster-equipped base which can be moved to enable personnel to work safely at heights of approximately three to seven feet.

1-7. CAPABILITIES AND FEATURES.

a. The platform is mobile and has swivel casters. These can be locked for stability when the platform is in the desired location.

b. A tow bar is provided to permit towing by vehicle when movement over longer distances is required. Do not exceed 5 MPH when towing.

c. The platform is designed to support up to 500 pounds in its raised position.

d. The platform is raised and lowered by manual control of a hydraulic pump.

1-8. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS. Refer to figure 1-1 and table 1-1.

1-9. EQUIPMENT DATA. Refer to table 1-1.

Table 1-1. Physical Characteristics

Item		
1	Base Length	92.2 inches
2	Base Width	52.3 inches
3	Platform Length	77.6 inches
4	Platform Width	36.0 inches
5	Minimum Height (lowered)	3.0 feet
6	Maximum Height (raised)	7.0 feet
7	Maximum Rated Load Capacity	500.0 pounds
8	Weight (approximately)	550.0 Pounds
9	Servicing Fluid	Hydraulic fluid (MIL-H-83282)
10	Maximum Towing Speed	5.0 MPH

Section III

TECHNICAL PRINCIPLES OF OPERATION

1-10. Principles of Operation

a. The maintenance platform consists of a main base and a platform surface. The platform is located above and connected to the main base by a scissors assembly.

b. A hand operated hydraulic pump is used to transfer fluid from a reservoir to a piston assembly, causing the piston to extend.

c. The piston assembly is connected to the scissors and as it extends, causes the platform to raise.

d. When the platform is raised to the desired height, it is manually locked with lock pins.

e. The platform is lowered to the down position by manually opening a release valve on the pump, allowing the fluid to return to the reservoir and the piston to retract.

CHAPTER 2
OPERATING INSTRUCTIONS
Section I

DESCRIPTION AND USE OF OPERATOR CONTROLS

2-1. Moving the Platform.

a. The platform should be positioned in the desired location before raising.

NOTE

The swivel casters are equipped with spring loaded lock pins. When engaged, these lock the casters in 90 degree increments.

b. When preparing to position the platform, unlock the casters on all four wheels, and release the brakes on the two rear casters.

c. When in position lock the casters and set the brakes.

2-2. RAISING THE PLATFORM.

a. Remove both safety lock pins (1). Stow pins.

CAUTION

Failure to open and close the vent plug as prescribed will result in failure of the hydraulic pump, gasket and seals.

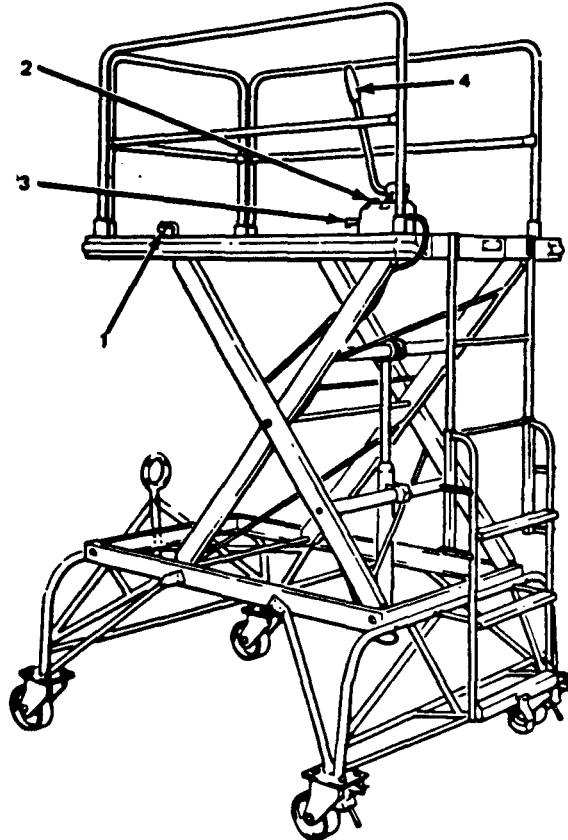
b. Open vent plug (2).

c. Close the release valve (3).

d. Operate pump handle (4) until platform reaches the desired height.

e. Reinstall safety lock pins (1).

f. Close vent plug (2).



WARNING

The platform is equipped with two safety lock pins which must be installed when the platform has attained the desired height. Do not raise or lower the platform while standing on the ladder.

2-3. LOWERING THE PLATFORM.

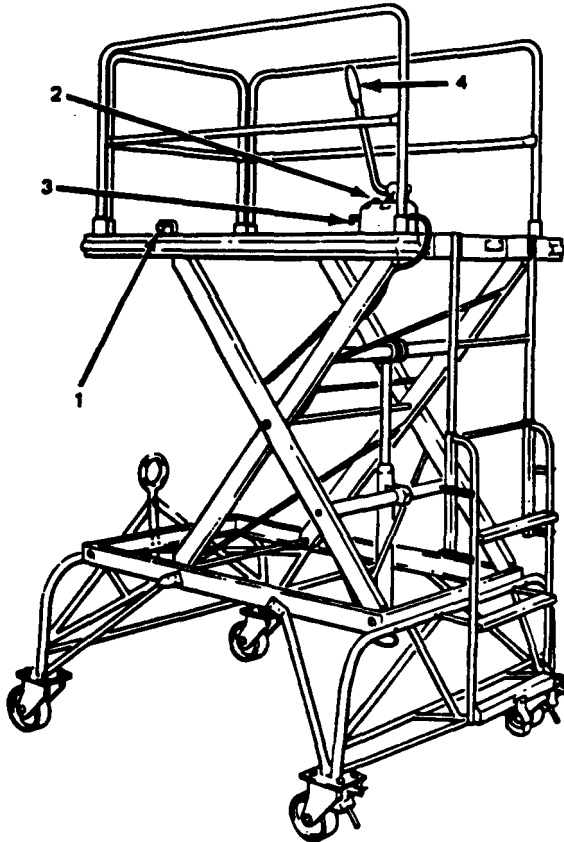
a. Open vent plug (2), and raise platform slightly to remove tension on safety lock pins.

b. Remove safety lock pins (1). Stow pins.

c. Slowly turn release valve lever (3) counterclockwise until the desired rate of decent is obtained.

d. When the platform has full lowered, close vent plug (2) and release valve (3) .

e. Reinstall safety lock pins.



Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

2-4. GENERAL.

- a Before operating, perform checks in column B, and keep in mind the cautions and warnings contained in this manual.
- b. If your equipment fails to operate properly, report the deficiency using the proper forma, see DA PAM 738-751.

WARNING

Ensure platform floor plate and ladder are clean. A greasy, slippery surface is a hazard to personnel safety.

2-5. **INSPECTIOPM REQUIREMENT.** A daily inspection to insure the Serviceability of the maintenance platform is required. Refer to table 2-1 column B for inspection requirements.

Table 2-1. Daily Preventive Maintenance Checks and Services

ITEM NO.	INTERVAL						ITEM TO BE INSPECTED	PROCEDURES: CHECK AND HAVE REPAIRED OR ADJUSTED AS NECESSARY	CHECK FOR EQUIPMENT WILL BE REPORTED NOT READY (RED) IF:
	B	D	A	W	M	C			
1	•						Pump Reservoir	Proper fluid level. Fill to within 1/2 inch of top.	After wiping, clean oil appears when pressure is applied. Broken caster wheel allows platform to tilt, and prevents safe movements. Caster brakes will not stop movement of platform.
2	•						Hydraulic hoses	Security, evidence of damage	
3	•						Actuating cylinder	Evidence of leaking	
4	•						Roller channels, ladder guides and scissors pivot points	Cleanliness and adequate lubrication	
5	•						Swivel casters	Proper operation, broken or chipped wheels, and adequate lubrication	
6	•						Caster brakes	Proper operation	

Section III

OPERATING UNDER USUAL CONDITIONS

2-6. BEFORE OPERATING. When operating the maintenance platform under usual conditions it is always necessary to open and close the vent plug located on the pump assembly. To disregard this instruction will result in early failure of pump gaskets and seals.

2-7. ASSEMBLY AND PREPARATION FOR USE.

a. Assembly. If the maintenance platform is received partially disassembled, assemble as prescribed in paragraph 3-7.

b. Daily Checks. When assembly is completed before equipment is put into use, complete the daily checks prescribed in table 2-1.

2-8. OPERATING PROCEDURE.

a. Operating the maintenance platform consists of raising the platform by operating a hydraulic pump, and lowering the platform by opening a release valve.

b. Before raising the platform to a required height, place the platform in the desired location. Raise and lower the platform as described in paragraph 2-2 and 2-3.

2-9. PREPARATION FOR MOVEMENT.

a. The platform assembly is equipped with casters to permit easy movement. These casters are equipped with locks to prevent swiveling, and two are provided with brakes to prevent movement when the platform is in use. When in a work position, all casters must be locked.

b. The platform is equipped with elevation lock pins to prevent accidental lowering. These pins must be installed before working from the platform. See warning in paragraph 2-2.

c. The platform can be moved by towing with a vehicle. The platform must be lowered before towing, and a speed of 5 MPH should never be exceeded.

Section IV

OPERATING UNDER UNUSUAL CONDITIONS

2-10. The platform is made for Use on level, paved areas. Operating the platform on rough, uneven ground is not recommended.

CHAPTER 3

AVIATION UNIT AND AVIATION INTERMEDIATE MAINTENANCE INSTRUCTIONS

Section I. REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

- 3-1. REPAIR PARTS. Repair parts are listed and illustrated in Appendix C of this manual.
- 3-2. SPECIAL TEST EQUIPMENT. No special test equipment is required.
- 3-3. SPECIAL TOOLS. Two special tools are required for refacing check ball seats of the hydraulic pump. These tools are locally manufactured per instructions contained in Appendix E.
- 3-4. COMMON TOOLS AND EQUIPMENT. For authorized common tools and equipment refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

Section II. SERVICE UPON RECEIPT

- 3-5. PREPARATION FOR USE. Preparation for use consists of uncrating, final assembly, inspection and depreservation procedures. For specific details, refer to table 3-1.
- 3-6. UNCRATING. The maintenance platform is shipped partially assembled, in 2 wooden crates 83 1/4 inches long, 43 1/4 inches wide, and 27 inches high. Using standard practices, remove platform and unassembled components from crate.

NOTE

When uncrating allow for 77 inches minimum headroom for assembled platform.

- a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on DD Form 6, Packing Improvement Report.
- b. Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with the instructions of DA PAM 738-751.
- e. Check to see if the equipment has been modified. If any item that affects the strength of the structure of the proper operation of hydraulic parts or the effectiveness of handrails has been changed or is missing, the platform will not be used as received.

Table 3-1. Service Upon Receipt - Maintenance Platform Type B-4A

LOCATION	ITEM	ACTION	REMARKS
Containers	Components	a. Inspect for paint damage or deformation b. Reject containers if damage will prevent proper operation	---- Para. 3-6a.
Platform Assembly	Components	a. Check equipment against packing list for completeness. b. Assemble parts into a complete unit	Para. 3-6b. Para 3-7
Platform Assembly	Hydraulic System	Depreserve the hydraulic system by removing preserving oil	Para 3-9
Platform Assembly	Complete Assembly	Perform daily checks before using maintenance platform	Table 3-2

3-7. ASSEMBLY. Inspect platform assembly and components to ensure all parts have been properly shipped. Complete final assembly of the platform as follows: (See figure 3-1).

a. Attach two swivel casters (25) to forward leg (23) with nuts bolts, and washers.

b. Attach forward leg (23) to main frame (26) with nuts, bolts and washers provided.

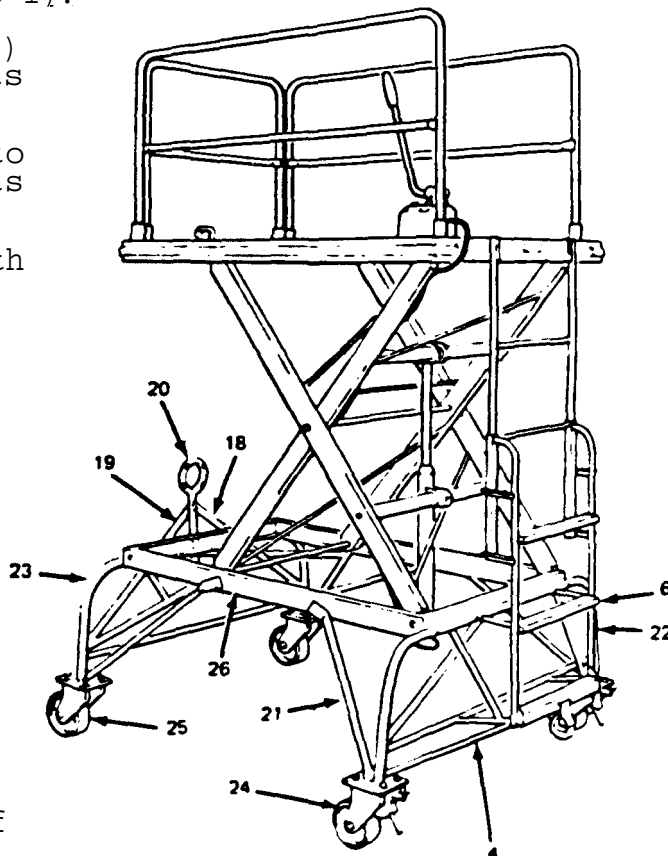
c. Attach two swivel casters with brakes (24) to rear leg (22) with nuts, bolts and washers.

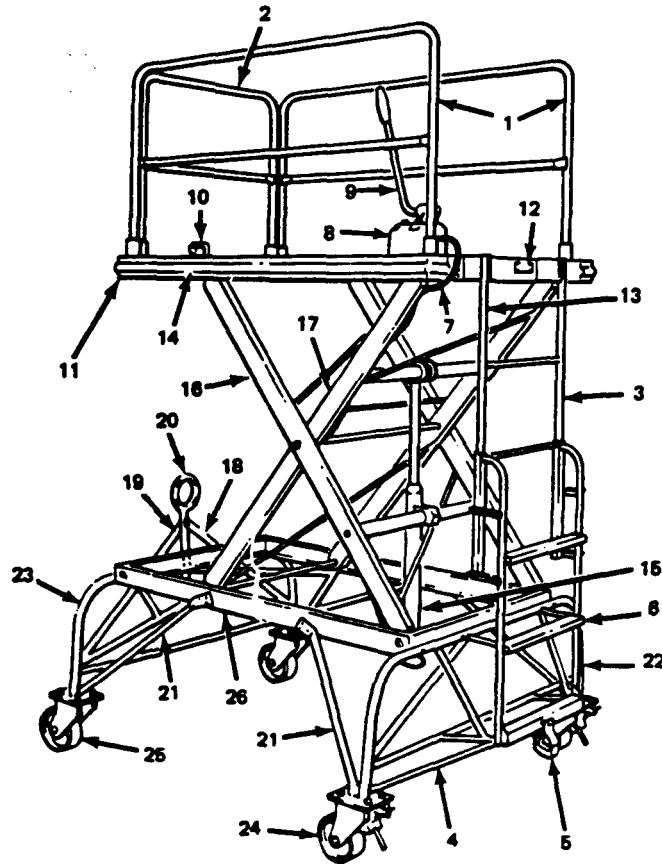
d. Attach rear leg (22) to main frame (26) with nuts, bolts and washers.

e. Attach leg braces (21), four required, to each leg and main frame, using nuts, bolts and washers.

f. Attach platform bar (20) to forward leg (23). Attach tow bars (18 and 19) to platform bar (20) and forward leg (23), using nuts, bolts and washers.

g. Position ladder (6) on rear leg (22). Attach with 4 bolts. Attach ladder brace (4) to side of ladder and rear leg using bolt at each end.





- | | | |
|--|--|--------------------------------|
| 1. RAIL, PLATFORM, SIDE | 9. HANDLE | 18. TOW BAR |
| 2. RAIL, P LATFORM, END | 10. PIN, SAFETY LOCK | 19. TOW BAR |
| 3. LADDER, PLATFORM | 11. BUMPER | 20. BAR, MAINTENANCE PLATFORM |
| 4. BRACE, LADDER | 12. PLATE, INSTRUCTION | 21. BRACE, LEG |
| 5. HOOK, PINTLE | 13. PLATE, WARNING | 22. LEG, REAR |
| 6. LADDER, MAINTENANCE PLATFORM, LOWER | 14. FLOOR PLATE, PLATFORM | 23. LEG, FORWARD |
| 7. HOSE ASSEMBLY, RUBBER | 15. CYLINDER ASSEMBLY, ACTUATING, LINEAR | 24. CASTER, SWIVEL, WITH BRAKE |
| 8. PUMP ASSEMBLY, HAND, HYDRAULIC | 16. SCISSORS, PLATFORM, OUTSIDE | 25. CASTER, SWIVEL |
| | 17. SCISSORS, PLATFORM, INSIDE | 26. FRAME, PLATFORM, MAIN |

Figure 3-1. Platform, Maintenance, Aircraft.

h. Position lower mount on cyclinder (15) to mounting bracket on outside scissor (16). Install bolt through mounts. Do not tighten. Swing cylinder (15) into position and attach cyclinder ram to inside scissor (27). Install second bolt. Tighten both bolts.

i. Slide upper ladder (3) down through ladder guides on lower ladder (6) and attach upper ladder to platform floor plate (14).

j. Install pump handle (9) on pump assembly (8).

k. Slide side rails (1) and end rail (2) into guides on platform floor plate (14).

3-8. PRESERVICE INSPECTION.
Inspect the assembled maintenance platform for the following:

a. General alignment and securing all components and attaching hardware.

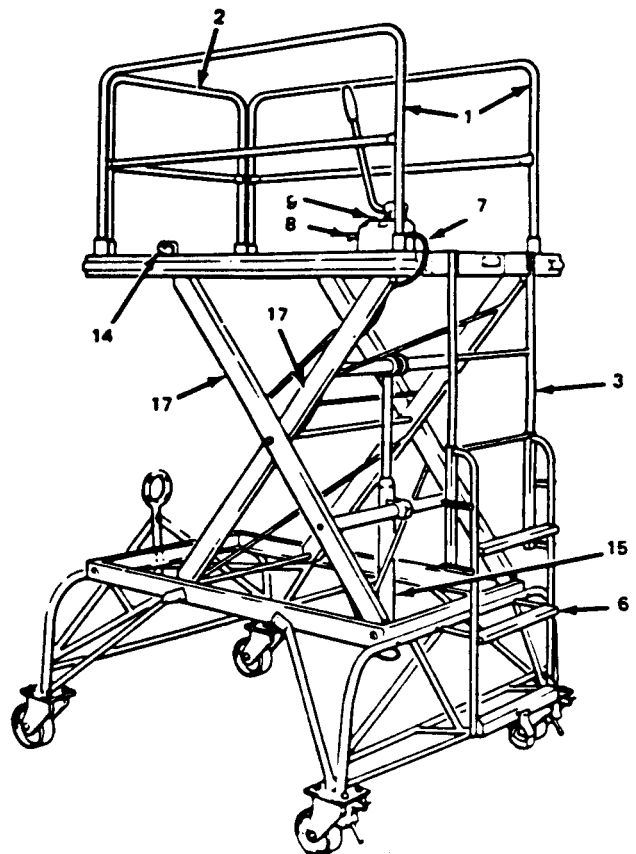
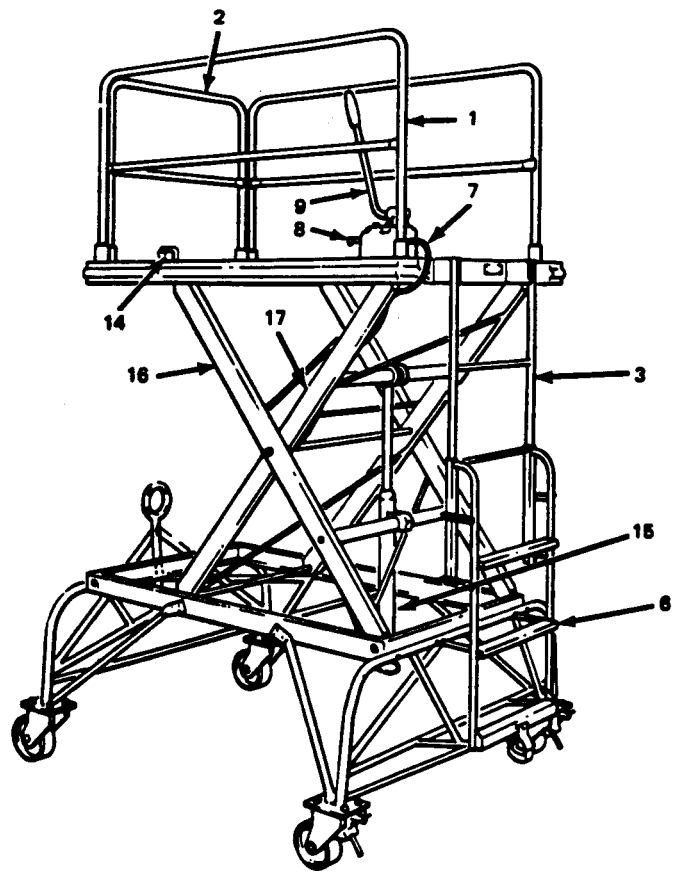
b. Hydraulic line and fittings secure and free of leaks.

c. Roller channels and ladder guides free of any foreign material.

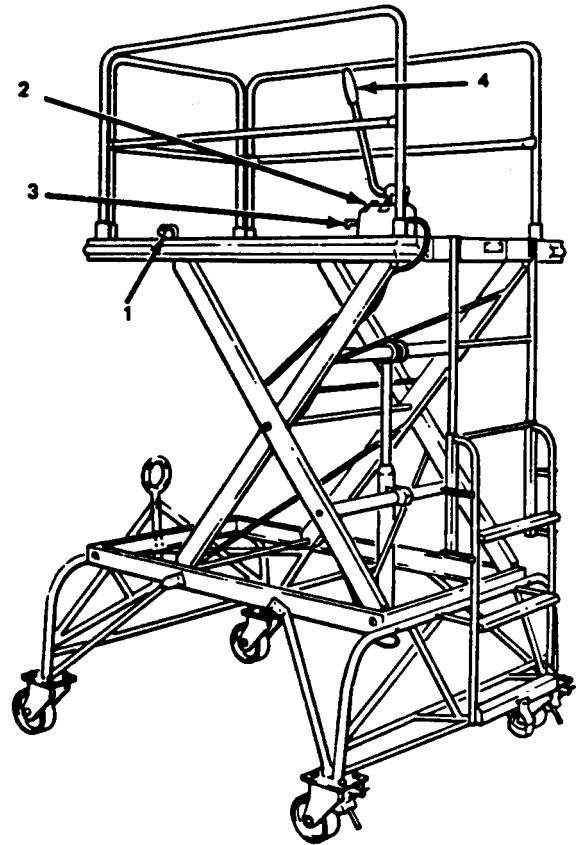
3-9. PRESERVATIVE OIL REMOVAL.
The hydraulic system is filled with hydraulic equipment preservative oil for shipment. Drain preservative oil and refill to within 1/2 inch of top of reservoir with hydraulic fluid, (item 3, Appendix D) before operating maintenance platform. Drain preservative oil as follows:

a. Place suitable container, one quart or larger, under cylinder assembly.

b. Disconnect hydraulic hose (7) at lower end of cylinder assembly (15).

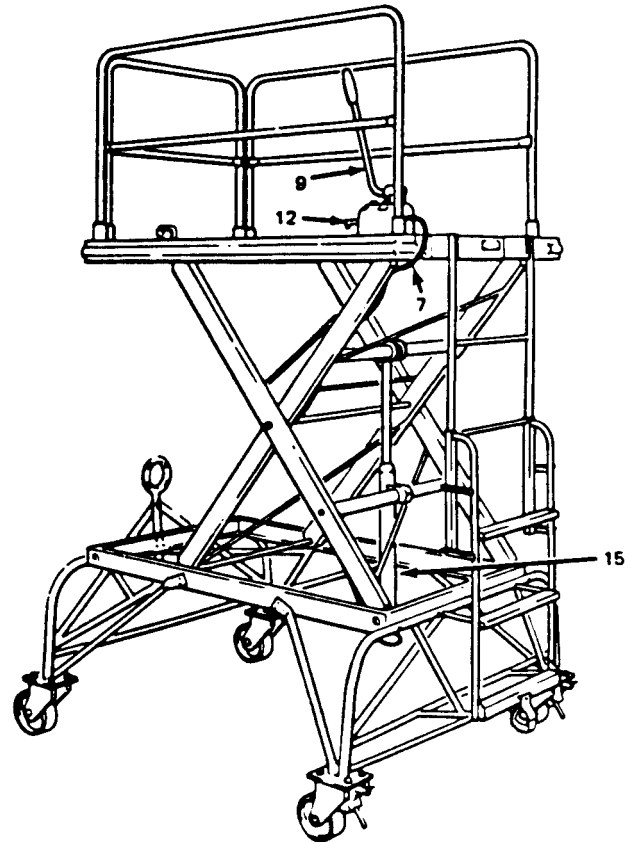


c. Close release valve lever (3).



d. Open pump reservoir vent (2).

e. Operate pump handle (9) to thoroughly purge system of preservative oil.



f. After all preservative oil is removed, connect hose (7) at lower end of cylinder assembly (15) 1 Fill to within 1/2 inch of top with hydraulic fluid MIL-H-83282.

g. Final Inspection. Prior to using the platform, perform the daily preventive maintenance checks listed in column "B" of table 2-1.

Section III

PREVENTIVE MAINTENANCE CHECKS AND SERVICES

3-10. DAILY INSPECTION. A daily inspection to insure the serviceability of the maintenance platform is required. If a problem is found during the inspection, the corrective action is shown in the procedure column of table 3-2.

Table 3-2. Preventive Maintenance Checks and Services

B - Before A - After M - Monthly
D - During W - Weekly C - Combat Operability Check

ITEM NO.	INTERVAL						ITEM TO BE INSPECTED	PROCEDURES
	B	D	A	W	M	C		
1	.						Pump Reservoir	Remove pump reservoir vent plug and check hydraulic fluid level. Fill to within 1/2 inch of top with hydraulic fluid MIL-H-83282.
2	.						Hydraulic hoses	Inspect hydraulic hose for leaking or evidence of damage. Secure or replace as required. Refer to paragraph 3-14a. (2) and c. (13).
3	.						Actuating cylinder	Inspect for leaking fluid. Replace if leaking. See paragraph 3-17.
4	.						Roller channels, ladder guides and scissors pivot points	Inspect for cleanliness and adequate lubrication. Clean and lubricate and oil as required using item 1 and 2, Appendix D.
5	.						Swivel casters	Check swivel casters for proper operation, broken or chipped wheels. Grease caster bearings using item 2 Appendix D, replace cracked or broken wheels.
6	.						Caster brakes	Check brakes for proper operation. Set brakes and ensure there is no platform movement.
NOTE								
Numbers shown in item number column shall be used as the source of numbers for the TM number column on DA Form 2404, Equipment Inspection and Maintenance worksheet.								

Section IV

TROUBLESHOOTING

Table 3-3. Troubleshooting Procedures

PLATFORM ASSEMBLY

MALFUNCTION	INSPECTION	CORRECTIVE ACTION
1. Platform will not raise.	Ensure lockpins are removed.	Remove lockpins (10, figure 3-1).
2. Platform raises or lowers irregularly.	Foreign matter binding channels in scissors assembly.	Clean channels and grease properly.
3. Platform will not raise or maintain desired height.	Check fluid level in pump. Check hose and cylinder for excessive leaking.	Fill pump reservoir if required, replace pump assembly (8), hose (7), or cylinder (15) as required. See figure 3-1.
4. Platform will not raise to desired height when pump is operated.	Check that release valve is closed. Check pump fluid level.	AVIM Function. Replace release valve in closed position. Fill pump reservoir if required. Replace pump (8) and/or cylinder (15), figure 3-1. See paragraphs 3-16 and 3-17.
5. Platform raises and settles back during each stroke of pump.	Check for defective pump.	Replace pump (8, fig 3-1). See paragraph 3-16.

Table 3-3. Troubleshooting Chart (cont)

PLATFORM ASSEMBLY

MALFUNCTION	INSPECTION	CORRECTIVE ACTION
6. Rate of descent too slow or exceeds 6 inches per second.	Release valve lever improperly installed.	Adjust release valve for a descent of 6 inches per second. To adjust rate of descent, turn lever clockwise 1/2 turn. Refer to paragraph 3-16d(6). Remove screw (9), washer (10) and handle (11). Note position of lever when removed. Reinstall lever in a counterclockwise direction (if too fast), or a clockwise direction (if too slow). Replace washer and screw to secure handle. Repeat the above procedure until the desired rate of descent is obtained.

Section V. MAINTENANCE PROCEDURES

3-11. GENERAL. Unless specifically noted in the text which follows, functions shall be accomplished by aviation unit maintenance (AVUM) personnel.

WARNING

Perform solvent cleaning operations in an approved cleaning cabinet or in a well-ventilated area. Keep dry cleaning solvent away from sparks or open flame. Avoid prolonged breathing of vapors. Avoid eye or skin contact. Use protective equipment (eye goggles/face shield and gloves) when using solvent or compressed air. Do not direct airstream toward self or other personnel.

- a. Cleaning. Remove all dirt and grease from structural members with dry cleaning solvent (item 4, Appendix D). Particular attention should be given to removal of any foreign matter in the scissors channels and ladder guides.
- b. Lubrication. Lubricate before reassembly of disassembled components after cleaning, lubricate the following parts according to Table 3-4.

Table 3-4. Lubrication Requirements

PART	LUBRICANT
Scissors rollers, roller guides hinge pins.	Oil, MIL-L-15016B (Item 1, Appendix D)
Ladder guides, caster bearings, and other less critical points of friction.	Grease, MIL-G-10924B (Item 2, Appendix D)
Pump and cylinder assemblies	Hydraulic fluid, MIL-H-83282 (Item 3, Appendix D)

NOTE

Lower maintenance platform fully before removing any component.

3-12 MAINTENANCE TASKS. Maintenance of the platform assembly consists of five tasks. Refer to table 3-5.

Table 3-5. Maintenance Tasks

Task No.	Task	Paragraph No.
1	Platform Assembly	3-13
2	Scissors Assembly	3-14
3	Main Frame Assembly	3-15
4	Hydraulic System (Pump Assembly)	3-16
5	Hydraulic System (Cylinder Assembly)	3-17

3-13. PLATFORM ASSEMBLY (Task 1). Reference table 3-6.

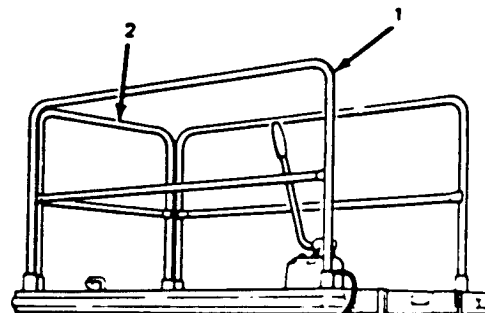
Table 3-6. Platform Assembly Task 1

TASK No. 1	ITEM	Paragraph
Removal	Handrails	3-13a. (1)
Inspection	Handrails	3-13a. (2)
Installation	Handrails	3-13a. (3)
Removal	Upper Platform Ladder	3-13b. (1)
Inspection	Upper Platform Ladder	3-13b. (2)
Installation	Upper Platform Ladder	3-13b. (3)
Removal	Lower Platform ladder	3-13c. (1)
Inspection	Lower Platform Ladder	3-13c. (2)
Installation	Lower Platform Ladder	3-13c. (3)

a. Handrails.

(1) Removal. Remove handrails (1 and 2), by raising until rails clear pipe sleeves.

(2) Inspection. Clean handrails and inspect for sharp bends or cracks. Replace or repair handrail found to be defective.



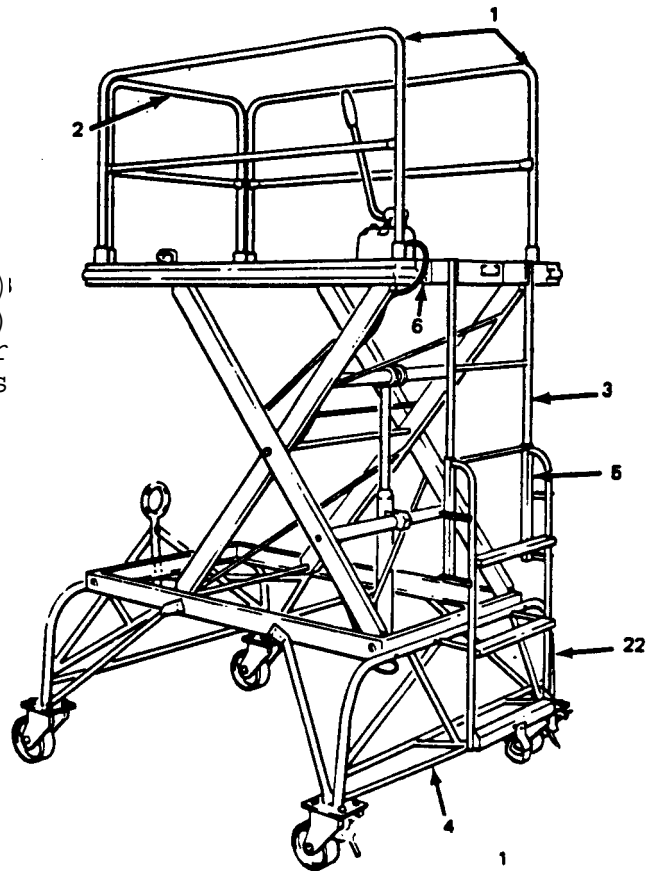
(3) Installation. Install handrails by inserting bottom ends into pipe sleeves on platform floor.

b. Upper Platform Ladder.

(1) Removal. Remove four bolts on each attaching ladder (3) to platform floor. Raise ladder up until clear of ladder guides (5).

(2) Inspection. Inspect ladder for cracks or bends that restrict free movement. Replace or repair ladder if defective.

(3) Installation. Grease ladder guides (5) using item 2, Appendix D. Insert lower end of ladder into ladder guides. Attach end of ladder to platform floor with 4 bolts on each side of ladder.

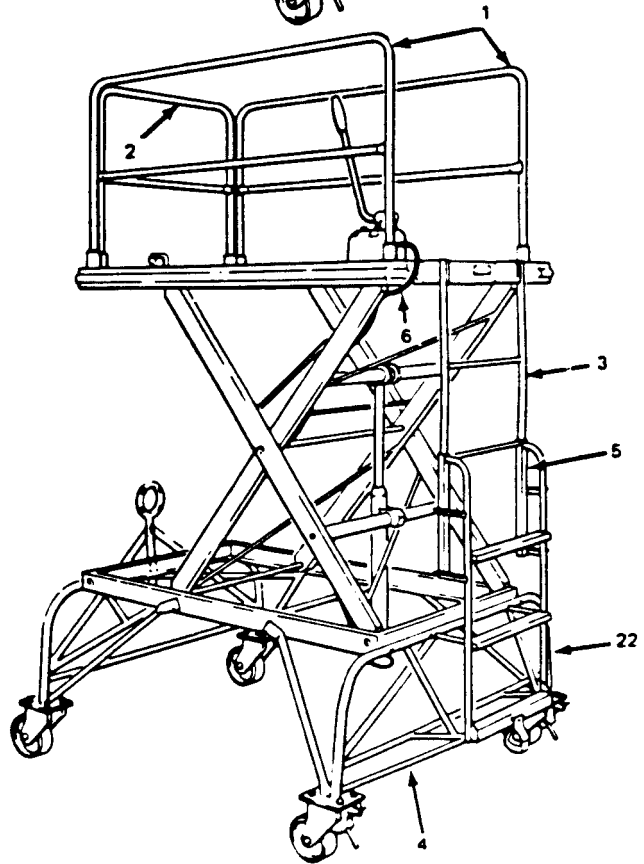


c. Lower Platform Ladder.

(1) Removal. Remove bolts at each end of ladder brace (4). Remove 4 bolts attaching ladder to rear legs (22).

(2) Inspection. Inspect ladder and brace for cracks, bends or other damage. If defective, replace the defective part.

(3). Installation. Attach lower ladder to rear legs (22) using 4 bolts. Attach ladder brace (4) using bolts at each end. Grease ladder guides using Item 2, Appendix D.



3-14. SCISSORS ASSEMBLY (TASK 2). Reference table 3-7.

Table 3-7. Scissors Assembly (Task 2)

TASK No. 2	ITEM	Paragraph
Removal	Scissors Assembly	3-14a.
Inspection	Scissors Assembly	3-14b.
Installation	Scissors Assembly	3-14c.

NOTE

See figure 3-2 for exploded view.

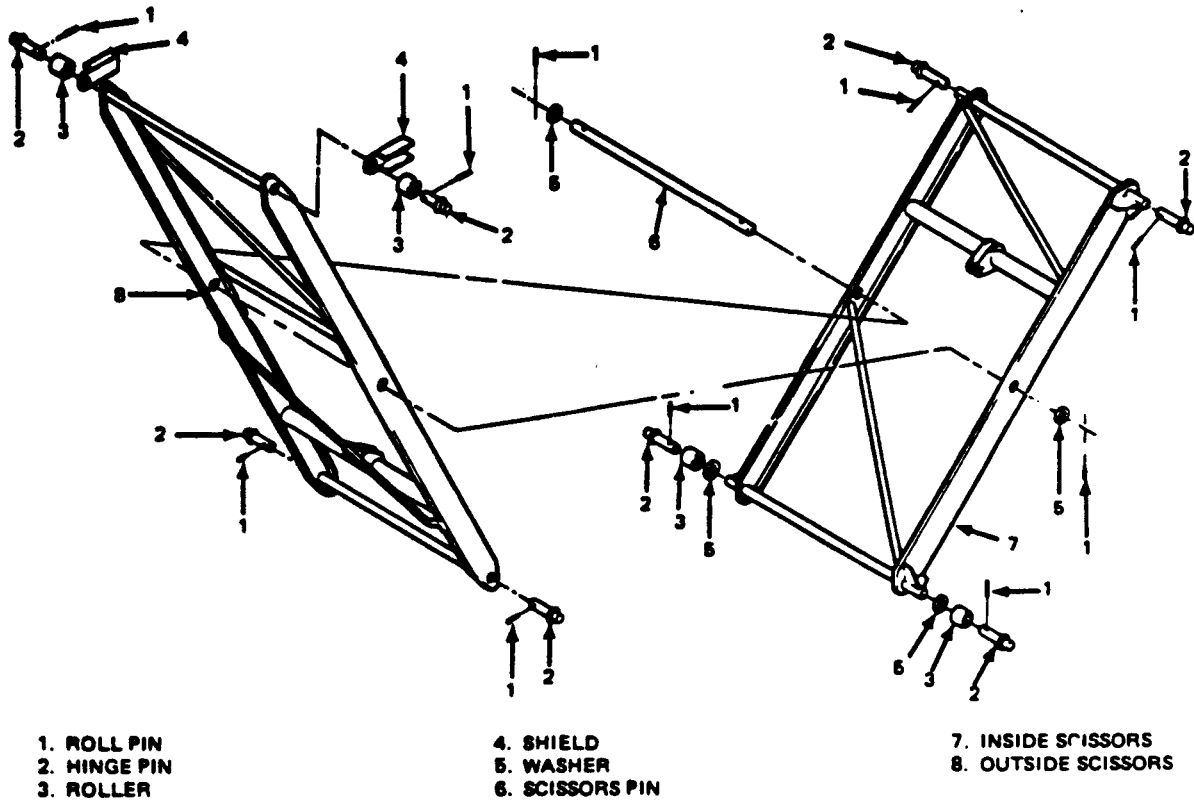
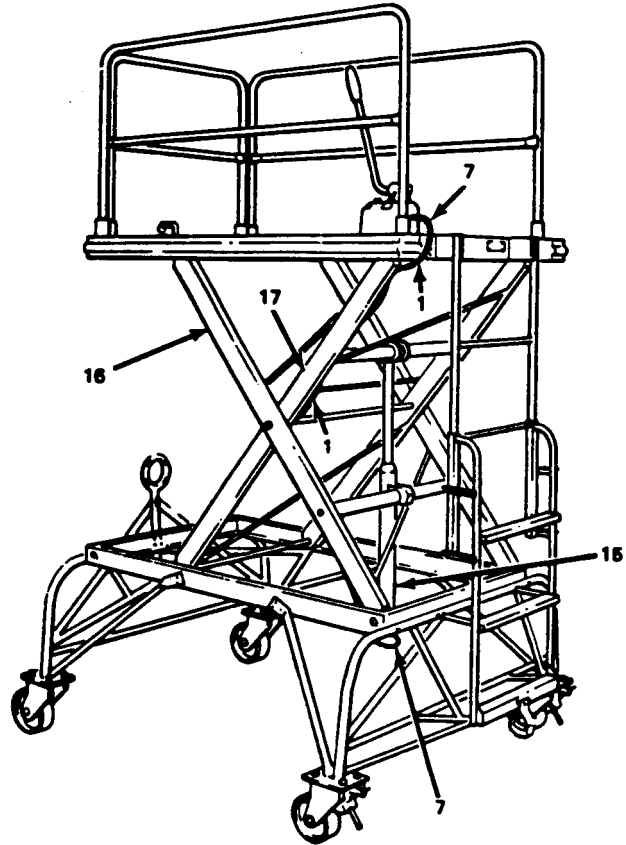


Figure 3-2. Scissors Assembly, Exploded View

a. Removal.

(1) Remove handrails and upper ladder as described in paragraph 3-13a and b.

(2) Remove five clamps securing hydraulic hose (7) to scissors assembly (16 and 17), and remove hose from cylinder (15).



(3) Remove bolts attaching cylinder assembly to scissors and remove hose from cylinder (15).

(4) Remove bolts attaching cylinder assembly to scissors and remove cylinder.

CAUTION

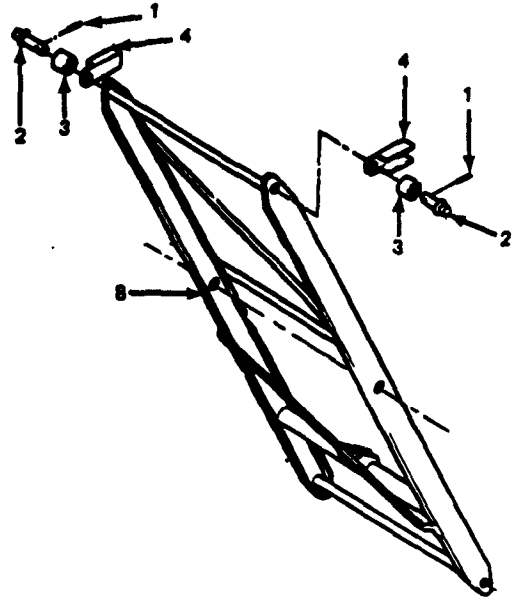
Ensure that platform floor plate is adequately supported before removing hinge pins. Align hinge pins with access holes in frame.

(5) Remove upper outside roll pin (1) from either side of scissors.

(6) Using suitable pulling tool, remove hinge pin (2), roller (3), and pin shield (4).

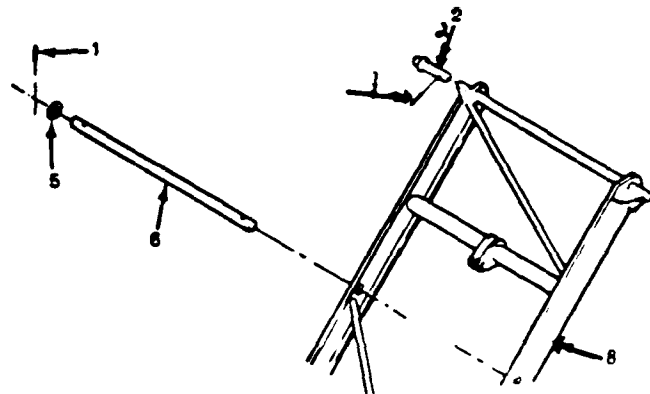
(7) Repeat this procedure for other side.

(8) Remove roll pins and hinge pins (1 and 2) from upper inside scissors.

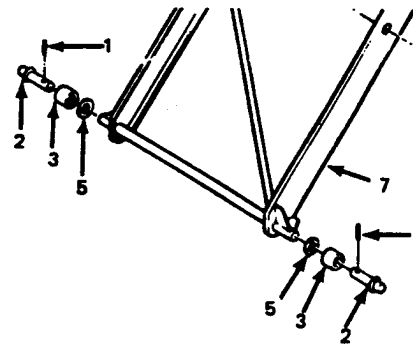


(9) Carefully lift floor plate off scissors assembly.

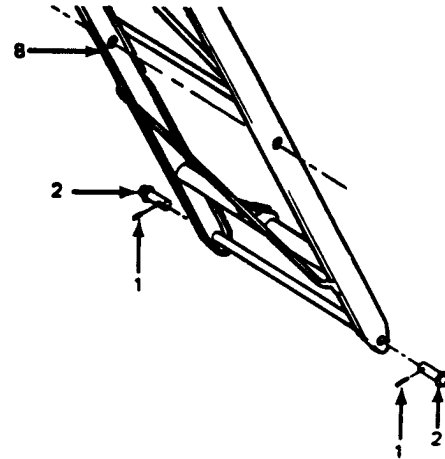
(10) Remove pins (1) and washer (5) from scissors pin, and remove scissors pin (6).



(11). Remove roll pins (1), hinge pins (2) rollers (3), and washers (5) from lower inside scissors (7) and lift scissors from main frame.



(12) Remove roll pins (1) and hinge pins (2) from lower outside scissors (8) and lift scissors from main frame.



b. Inspection. Thoroughly clean all parts using dry cleaning solvent, item 4, Appendix D, and dry with a clean lint-free cloth. Inspect scissors frame for cracks or other damage. If damaged, replace. Inspect and replace any rollers and hinge pins that do not meet the tolerances given in table 3-8.

Table 3-8. Roller and Hinge Pin Tolerances

ITEM	INSPECT FOR	DISPOSITION
Roller	Outside diameter	Replace if less than 1.90 inches
	Inside diameter	Replace if greater than 0.64 inch.
Hinge pins	Outside diameter	Replace if less than 0.615 inch.

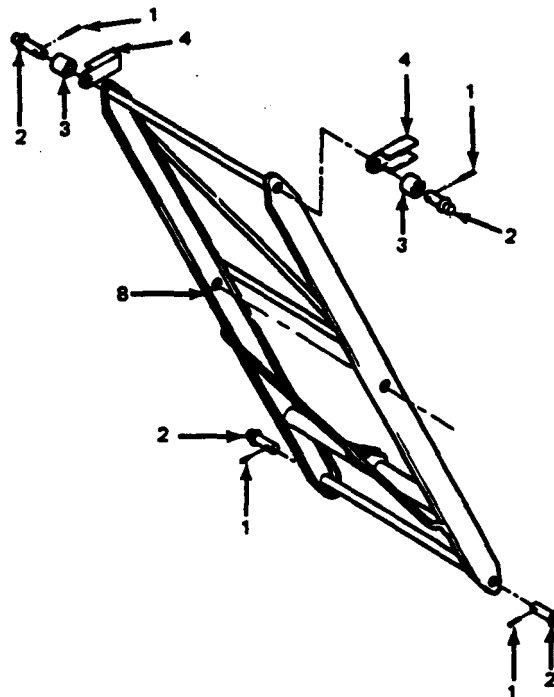
c. Installation.

(1) Position outside scissors (8), into the platform main frame.

(2) Install hinge pins (2) and roll pins (1) on both sides of scissors assembly and through main frame.

(3) Position inside scissors assembly (7) into outside scissors assembly (8) and install scissors pin (6) using washers (5) and pins (1).

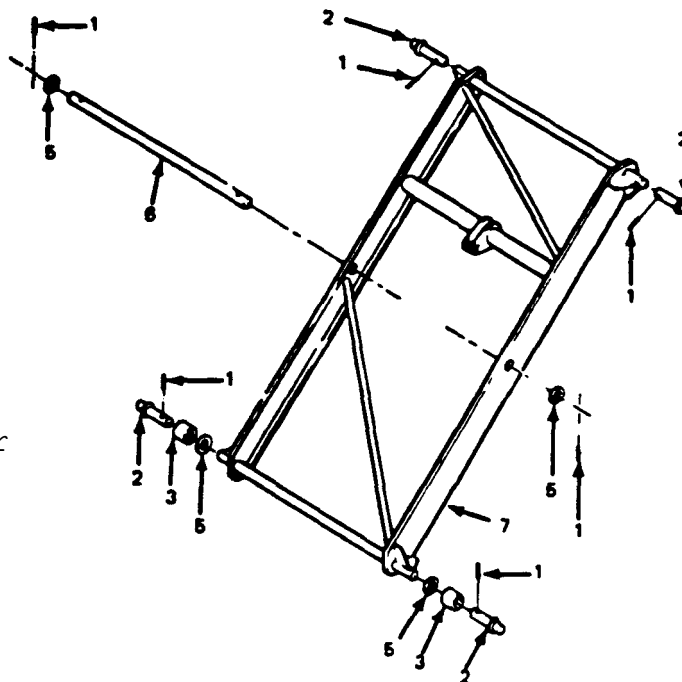
(4) Install washers (5), rollers (3), hinge pins (2) and roll pins (1) attaching lower end of inside scissors (7) to main frame.



(5) Position floor plate above scissors assembly

(6) Install pin shields (4) rollers (3), hinge pins (1) and roll pins on both sides of upper end of outside scissors assembly.

(7) Install hinge pins (2) and roll pins (1) on both sides of upper end of inside scissors assembly.



(8) Install cylinder assembly by positioning lower mount on cylinder (15) to mounting bracket on outside scissors (16)

(9) Install bolt through lower mount. Do not tighten bolt at this time.

(10) Swing cylinder (15) into position and attach cylinder ram (upper end) to inside scissors (17).

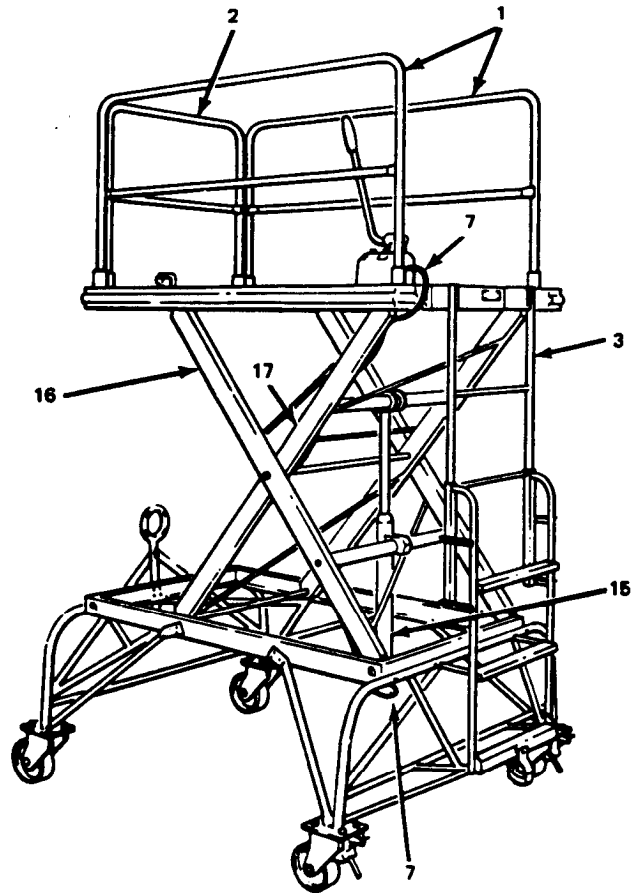
(11) Install bolt in upper end and tighten both bolts as required.

(12) Connect one end of hydraulic hose (7) to cylinder assembly (15).

(13) Attach hose to scissors assembly (17 and 16) using five clamps removed in paragraph 3-14a. (2).

(14) Connect hose to hydraulic pump fitting.

(15) Install upper ladder (3) and guard rails (1 and 2) as described in paragraph 3-13a. (3) and b.(3).



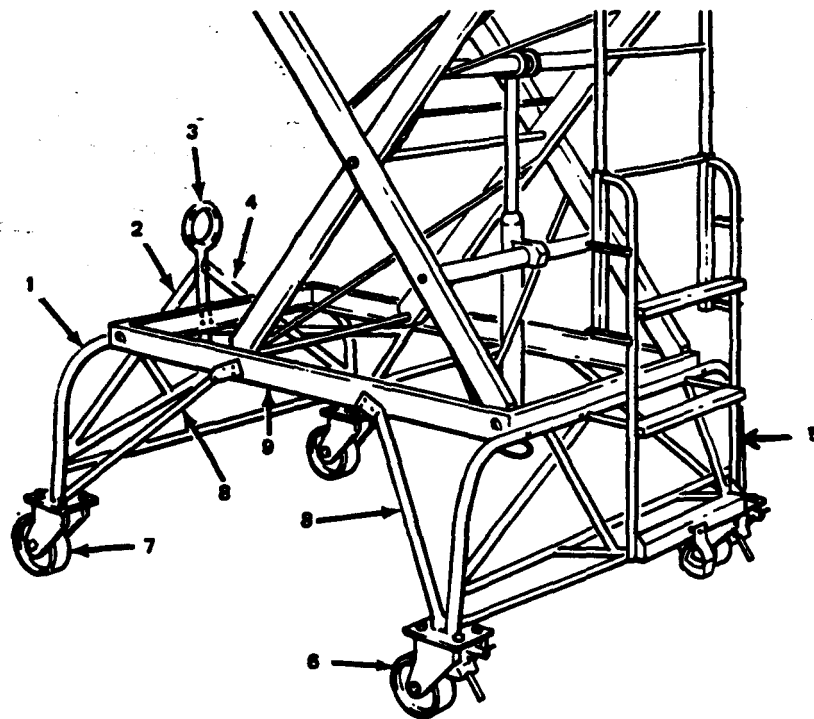
3-15. MAIN FRAME ASSEMBLY (TASK 3). Reference table 3-9.

Table 3-9. Main Frame Assembly (Task 3)

TASK No.3	ITEM	Paragraph
Removal	Main Frame Assembly	3-15b.
Inspection	Main Frame Assembly	3-15C.
Installation	Main Frame Assembly	3-15d.

a. General. The main frame assembly consists of the main frame plus a considerable number of attached parts. To remove the main frame for repair or replacement, almost complete disassembly of the maintenance platform is required.

b. Removal. To remove the main frame, lower platform and remove the floor plate and scissors assembly as described in paragraph 3-13 and 3-14. Store floor plate, scissors assembly and hydraulic cylinder assembly in a safe place.



1. FRONT LEGS
2. TOW BAR
3. PLATFORM BAR

4. TOW BAR
5. REAR LEGS
6. REAR CASTERS

7. FRONT CABLES
8. LEG BRACES
9. MAIN FRAME

Figure 3-3. Main Frame Assembly

(1) After removal of upper assemblies, turn lower assembly top side down.

(2) Remove bolts securing the four leg braces (8, figure 3-3) to main frame (9).

(3) Remove bolts attaching front legs (1) to main frame and remove front legs (1), tow bars (2 and 4), platform bar (3) and front casters (7).

(4) Remove bolts attaching rear legs (5) to main frame and remove legs (5) and rear casters (6).

c. Inspection. Inspect the main frame for cracks or other damage and repair or replace as necessary.

d. Installation.

(1) Attach rear legs (5) and casters (6) to rear of main frame (9) using bolts removed in step (4) paragraph b. above.

(2) Attach rear leg braces (8) to sides of main frame using bolts removed in step (2) paragraph b. above.

(3) Attach front legs (1), front casters (7) and tow bars (2, 3 and 4) to the front end, of the main frame.

(4) Rotate the main frame to place in an upright position.

(5) Refer to paragraphs 3-13 and 3-14 and reassemble the scissors assembly, floorplate, ladders and guardrails as directed.

3-16. HYDRAULIC SYSTEM (PUMP ASSEMBLY) (TASK 4). Reference table 3-10.

Table 3-10. Hydraulic System (Pump Assembly) (Task 4)

TASK No. 4	ITEM	Paragraph
Removal	Pump Assembly	3-16b.
Inspection	Pump Assembly	3-16c.
Disassembly (AVIM)	Pump Assembly	3-16d.
Cleaning (AVIM)	Pump Assembly	3-16e.
Inspection and Repair (AVIM)	Pump Assembly	3-16f.
Reassembly (AVIM)	Pump Assembly	3-16g.
Installation	Pump Assembly	3-16h.

a. General. Disassembly or major repair of the hydraulic pump assembly should not be attempted by AVUM. Repair of the pump assembly will normally be accomplished by the supporting AVIM unit. Refer to figure 3-4 for exploded view.

b. Removal.

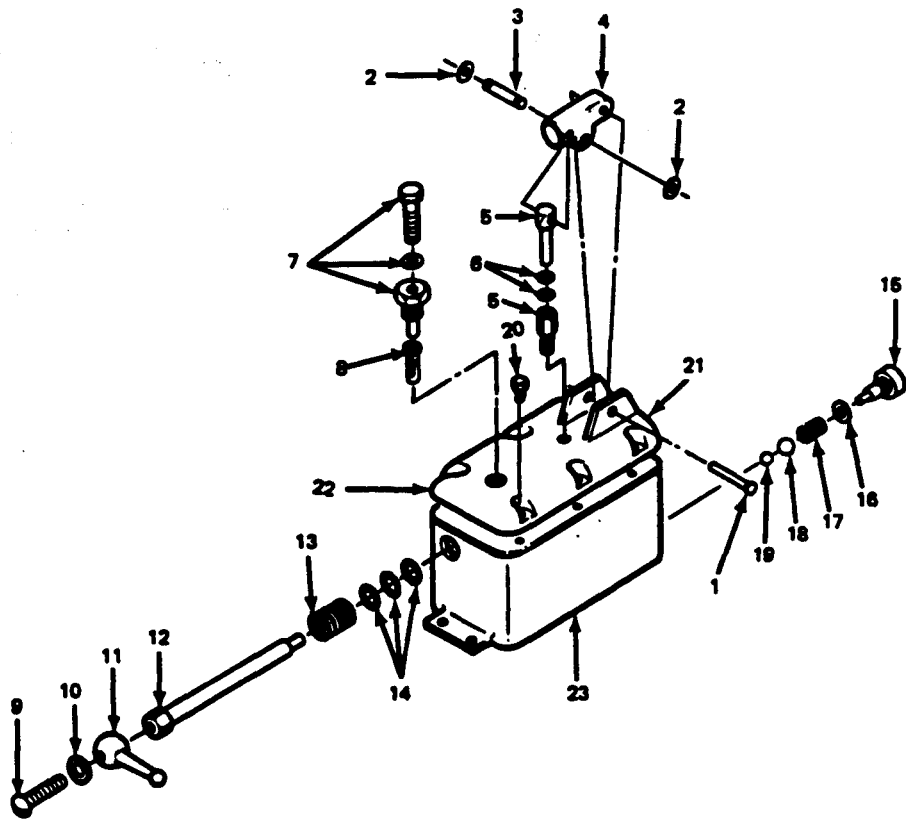
(1) Disconnect the hydraulic hose from the pump.

(2) Remove the four bolts attaching the pump to the platform floor plate.

c. Inspection.

(1) Inspection of the removed pump is not applicable for AVUM personnel. Install new pump as described in paragraph 3-16h.

(2) Package unserviceable pump for return to repair activity.



- 1 P IN. CROSS. PLUNGER
- 2 RING, RETAINING
- 3 P IN. GROOVED, HEADLESS
- 4 ADAPTER, PUMP HANDLE
- 5. CYLINDER ASSEMBLY
- 6. SEAL, PUMP PLUNGER (07506)
- 7. VENT. JACK RESERVOIR
- 8. SCREEN, STAND PUMP

- 9. SCREW (07506)
- 10. WASHER (07506)
- 11. LEVER, RELEASE VALVE
- 12. SPINDLE, RELEASE VALVE
- 13. NUT, PACKING, RELEASE VALVE
- 14. WASHER, NONMETALLIC
- 15. PLUG, VALVE
- 16. GASKET, VALVE PLUG (07506)

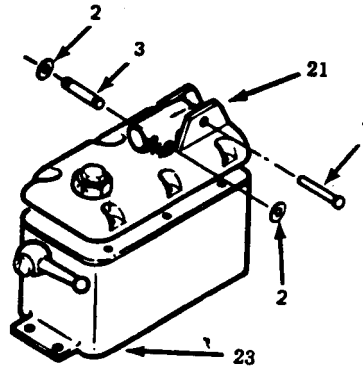
- 17. SPRING, HELICAL COMPRESSION
- 18. BALL, BEARING, 3/8-INCH
- 19. BALL, BEARING, 9/32-INCH
- 20. BOLT (07506)
- 21. COVER, BASE WITH SEAL
- 22. GASKET
- 23. HOUSING, HYDRAULIC RESERVOIR

Figure 3-4. Hand Hydraulic Pump Assembly, Exploded View.

d. Disassembly (AVIM).

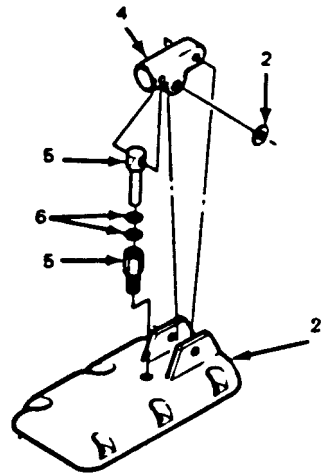
(1) Remove pump plunger cross pin (1).

(2) Remove retaining rings (2) and beam pin (3).



(3) Remove pump handle adapter (4).

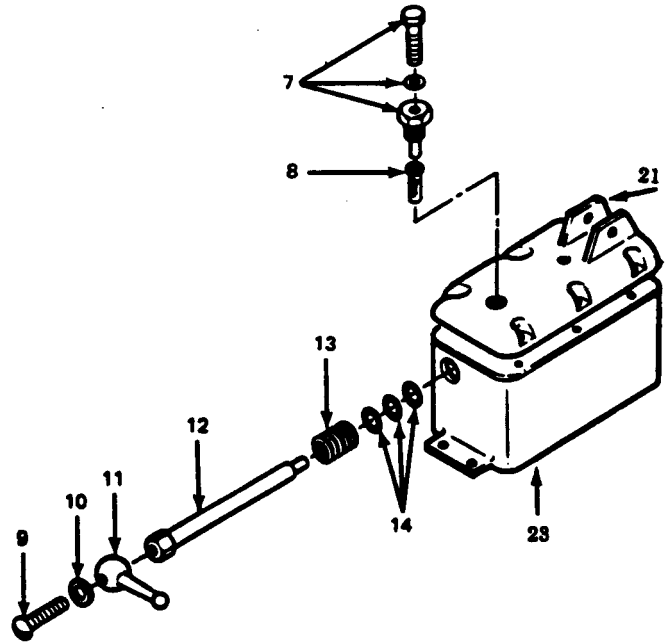
(4) Remove cylinder and piston assembly (5).



(5) Remove reservoir vent (7) and pump screen (8).

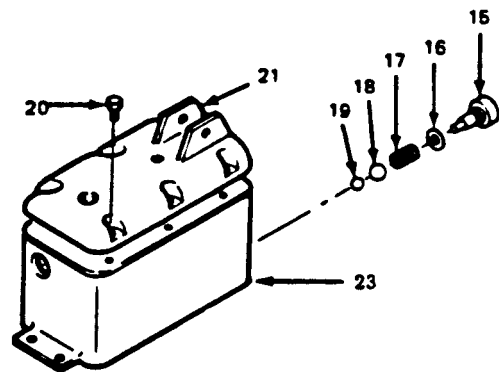
(6) Remove screw (9) and remove release valve lever (11).

(7) Remove release valve spindle (12), packing nut (13) and sealing washers (14).



(8) Remove valve plug (15), helical compression spring (17), and ball bearings (18 and 19).

(9) Remove six bolts (20) securing cover and seal (21) to housing (23).



e. Cleaning (AVIM)WARNING

Perform solvent cleaning operations in an approved cleaning cabinet or in a well-ventilated area. Keep dry cleaning solvent away from sparks and flames. Avoid prolonged breathing of vapors. Avoid eye and repeated skin contact. Use approved personnel protective equipment (eye goggles/face shield/gloves) when handling solvents.

(1) Clean disassembled parts with dry cleaning solvent (item 4, Appendix D), and dry with lint-free cloth.

f. Inspection and Repair. (AVIM)

(1) Inspect all seals, gaskets, and packings for evidence of swelling, tearing, and pitting. Replace any parts found defective.

(2) Inspect valve spindle, pump plunger, and cylinder assembly for nicks, pitting, and scoring of surfaces. Replace any parts found defective.

(3) Inspect check ball seats for pitting and roughness. Resurface these seats if required by applying lapping compound to the ball end of the appropriate special reseating tool, Appendix E, and rotating back and forth 90 degrees, occasionally lifting the tool off the seat. Repeat this process until a smooth seat surface is obtained.

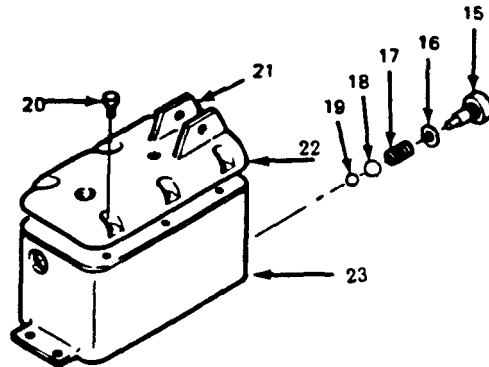
NOTE

After resurfacing of the check ball seats, ensure that all abrasive compound is removed prior to reassembling pump.

g. Reassembly (AVIM)

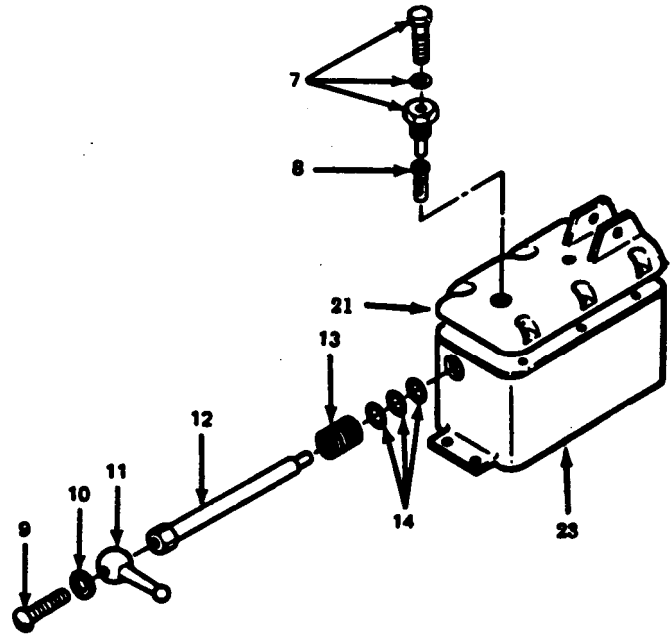
(1) Install cover gasket (22) and pump cover (21), and secure with six bolts (20).

(2) Install two check ball bearings (18 and 19), check ball spring (17), plug gasket (16) and valve plug (15).

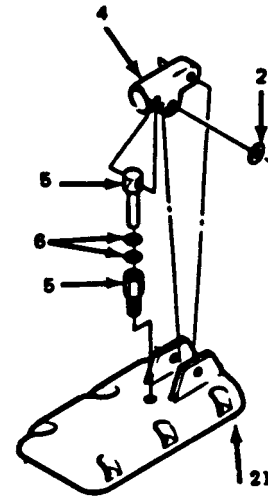


(3) Install valve spindle (12), valve packing (14), packing nut (13), release valve lever (11), washer (10) and screw (9) into pump housing (23).

(4) Install pump screen (8), adaptor plug gasket and reservoir vent plug (7).

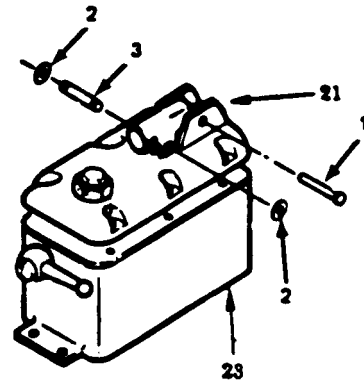


(5) Install pump plunger, packing and cylinder (5 and 6), as an assembly into pump housing.



(6) Align pump handle adaptor (4) with mounting boss on pump cover and pump plunger and install grooved pin (3) and cross pin (1).

(7) Install two retaining rings (2) on ends of grooved pin (3).



h. Installation.

(1) Position pump assembly on the platform floor and install four retaining bolts.

(2) Connect hydraulic hose to pump assembly.

(3) Fill hydraulic pump assembly to within 1/2 inch of the top of reservoir with hydraulic fluid (item 3, Appendix D).

NOTE

Readjustment of the valve release lever after pump is installed on the platform will be necessary after removal or repair of release valve. Refer to table 3-3, item 6, adjust lever to obtain proper rate of descent.

3-17. HYDRAULIC SYSTEM (CYLINDER ASSEMBLY) (TASK 5). Reference table 3-11.

Table 3-11. Hydraulic System (Cylinder Assembly) (Group 0402) Task 5

TASK No. 5	ITEM	Paragraph
Removal	Cylinder Assembly	3-17b.
Inspection	Cylinder Assembly	3-17c.
Disassembly (AVIM)	Cylinder Assembly	3-17d.
Cleaning (AVIM)	Cylinder Assembly	3-17e.
Inspection and Repair (AVIM)	Cylinder Assembly	3-17f.
Reassembly (AVIM)	Cylinder Assembly	3-17g.
Installation	Cylinder Assembly	3-17h.

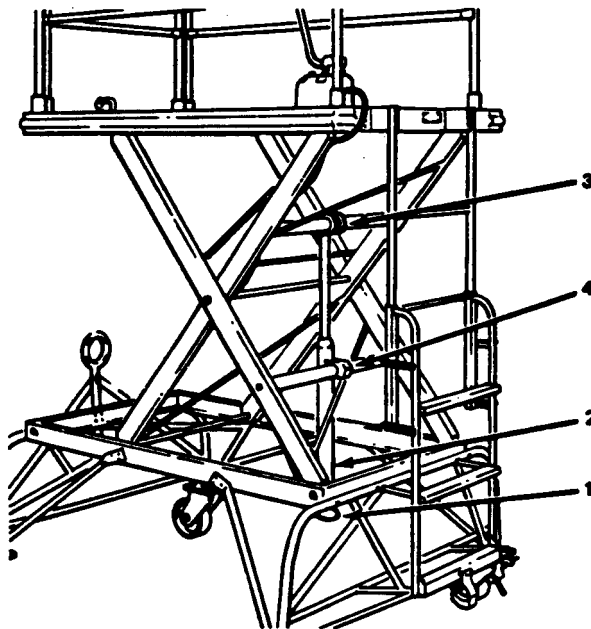
a. General. Disassembly or major repair of the hydraulic cylinder assembly should not be attempted by AVUM. Repair of the cylinder assembly will normally be accomplished by the supporting AVIM unit. Refer to figure 3-5 for exploded view.

b. Removal.

(1) Remove hydraulic hose
(1) from cylinder assembly (2) .

(2) Remove bolt attaching
cylinder ram to inside scissors
(3).

(3) Remove bolt attaching
cylinder to outside scissors (4).



c. Inspection.

(1) Inspection of the removed cylinder assembly is not applicable. Install new cylinder assembly as described in paragraph 3-17.h.

- 1. NUT, STOP
- 2. WIPER, PLUNGER
- 3. PLUNGER
- 4. SPACER
- 6. NUT, STOP
- 6. SPREADER
- 7. GROMMET
- 8. CUP, PLUNGER
- 9. DISK
- 10. D-RING
- 11. CYLINDER

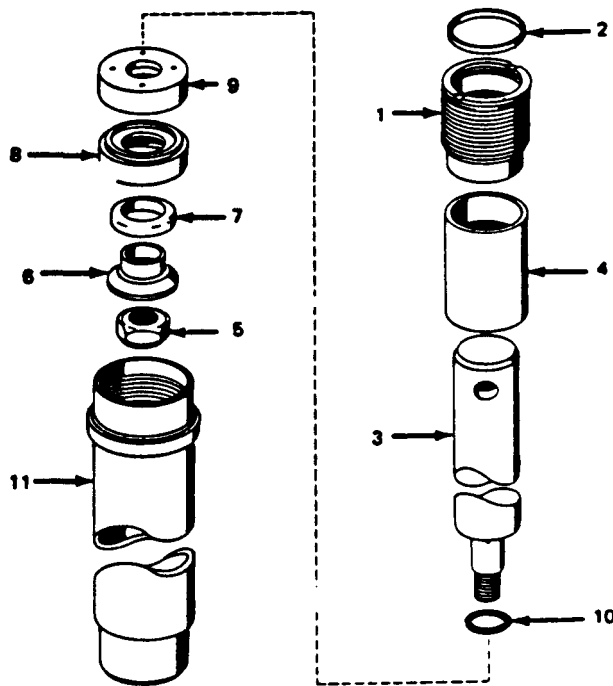


Figure 3-5. Actuating Cylinder Assembly, Exploded View

d. Disassembly. (AVIM)

(1) Remove stop nut (1, figure 3-5) and plunger wiper (2).

(2) Remove plunger (3) and spacer (4) from cylinder (11).

(3) Dissassemble plunger assembly by removing stop nut (5), spreader (6), grommet (7), plunger cap (8), disk (9), and O-Ring (10).

e. Cleaning. (AVIM)**WARNING**

Perform solvent cleaning operations in an approved cleaning cabinet or in a well-ventilated area. Keep dry cleaning solvent away from sparks and flames. Avoid prolonged breathing of vapors. Avoid eye and repeated skin contact. Use approved personnel protective equipment (eye goggles/face shield/gloves) when handling solvents or using compressed air. Provide protection from flying particles when using compressed air. Do not direct airstream towards self or other personnel.

Clean disassembled parts with dry cleaning solvent (item 4, Appendix D), and dry with clean, lint-free cloth.

f. Inspection and Repair (AVIM).

(1) Inspect O-ring (10, figure 3-5) plunger disk (9), plunger cup (8), grommet (7) and spreader (6) for evidence of tearing, swelling, nicks or other defects which may cause leaking. Replace all defective parts.

(2) Inspect cylinder (11) for pitting, scoring, roughness.

(3) Lightly hone cylinder to recondition if possible. If pitting or scoring is too deep to hone out, replace cylinder.

g. Reassembly. (AVIM)

(1) Install O-Ring (10), plunger disk (9) plunger cup (8), grommet (7) , spreader (6) and stop nut (5) on plunger (3) .

(2) Lightly lubricate plunger assembly (3) and cylinder (11) wall with clean hydraulic fluid (item 3, Appendix D).

(3) Slide plunger assembly into cylinder, taking care not to damage plunger cup.

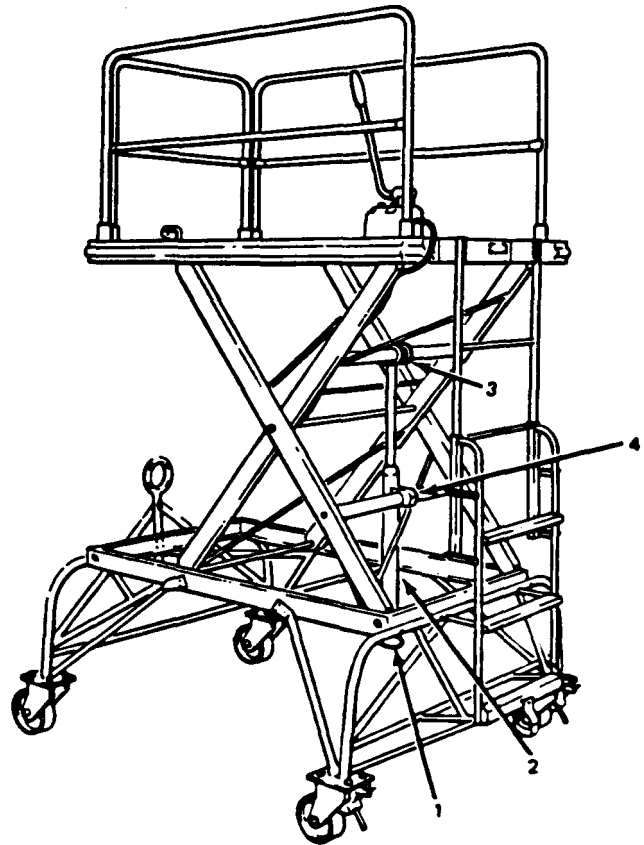
(4) Install spacer (4), plunger wiper (2), and stop nut (1).

h. Installation.

(1) Position cylinder assembly lower mounting (4) and attach to outside scissors with bolt. Do not tighten bolt at this time.

(2) Swing cylinder assembly into position and attach cylinder ram (upper end) (3) to inside scissors.

(3) Connect hydraulic hose (1) to fitting on bottom end of cylinder assembly (2).



Section VI. PREPARATION FOR STORAGE OR SHIPMENT

**For general technical information on preparation for storage and shipment refer to TM 1-1500-204-23 (Series).
For regulatory requirements pertaining to equipment placed in administrative storage refer to AR 750-1.**



Figure 3-6. DELETED.

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 Index

DA PAM 25-30	Consolidated Index of Army Publication and Blank Forms
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A-3. Logistics and Storage

TM 55-1500-204-23 (Series)	General Aircraft Maintenance Manual
TM 743-200-1	Storage and Materials Handling

A-4. Maintenance of Supplies and Equipment

AR 750-1	Army Materiel Maintenance Concepts and Policies
TM 9-213	Painting Instructions for Field Use
DA PAM 738-751	Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS-A)

A-5. Other Publications

TM 750-244-1-3	Procedures for the Destruction of Aviation Ground Support Equipment (FSC 1700) to Prevent Enemy Use
AR 420-90	Fire Prevention and Protection

APPENDIX B

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. MAINTENANCE ALLOCATION CHART.

This Maintenance Allocation Chart (MAC) assigns maintenance functions in accordance with the Three Levels of Maintenance concept for Army aircraft. These maintenance levels, Aviation Unit Maintenance (AVUM), Aviation Intermediate Maintenance (AVIM) and Depot Maintenance, are depicted on the MAC as:

AVUM which corresponds to the O code in the Repair Parts and Special Tools List (RPSTL).

AVIM which corresponds to the F code in the Repair Parts and Special Tools List (RPSTL).

Depot which corresponds to the D code in the Repair Parts and Special Tools List (RPSTL).

b. The maintenance to be performed below depot and in the field is described as follows:

(1) AVIATION UNIT MAINTENANCE (AVUM). AVUM activities will be staffed and equipped to perform high frequency "On-Equipment" maintenance tasks required to retain or return equipment to a serviceable condition. The maintenance capability of the AVUM will be governed by the MAC and limited by the amount and complexity of support equipment, facilities required, and number of spaces and critical skills available. The range and quantity of authorized spare modules/components will be consistent with the mobility requirements dictated by the air mobility concept. (Assignment of maintenance tasks to divisional company size aviation units will consider the overall maintenance capability of the division, the requirement to conserve personnel and equipment resources and air mobility requirements.)

(a) COMPANY SIZE AVIATION UNITS. Perform those tasks which consist primarily of preventive maintenance and maintenance repair and replacement functions associated with sustaining a high level of equipment operational readiness. Perform maintenance inspections and servicing to include daily, intermediate, periodic and special inspections as authorized by the MAC or higher headquarters. Identify the cause of equipment/system malfunctions using applicable technical manual troubleshooting instructions, Built-In Test Equipment (BITE), installed instruments, or easy to use Test Measurement and Diagnostic Equipment (TMDE). Replace worn or damaged modules/components which do not require complex adjustments or system alignment and which can be

removed installed with available skills, tools and equipment. Perform operational and continuity checks and make minor repairs. Perform servicing functional adjustments and minor repair/replacement. Evacuate unserviceable modules/components and end items beyond the repair capability of AVUM to the supporting AVIM.

(b) LESS THAN COMPANY SIZE AVIATION UNITS. Aviation elements organic to brigade, group, battalion headquarters and detachment size units are normally small and have less than ten aircraft assigned. Maintenance tasks performed by the aircraft crew chief or assigned aircraft repairman will normally be limited to preventive maintenance, inspections, servicing, spot painting, stop drilling, minor adjustments, module/component fault diagnosis and replacement of selected modules/components. Repair functions will normally be accomplished by the supporting AVIM unit.

(2) AVIATION INTERMEDIATE MAINTENANCE (AVIM). AVIM provides mobile, responsive "One Stop" maintenance support. (Maintenance functions which are not conducive to sustaining air mobility will be assigned to depot maintenance.) Performs all maintenance functions authorized to be done at AVUM. Repair of equipment for return to user will emphasize support or operational readiness requirements. Authorized maintenance includes replacement and repair of modules/components and end items which can be accomplished efficiently with available skills, tools, and equipment. Establishes the Direct Exchange (DX) program for AVUM units by repairing selected items for return to stock when such repairs cannot be accomplished at the AVUM level. Inspects, troubleshoots, tests, diagnoses, repairs, adjusts, calibrates, and aligns system modules/components. Module component disassembly and repair will support the DX program and will normally be limited to tasks requiring cleaning and the replacement of seals, fittings and items of common hardware. Unserviceable repairable modules/components and end items which are beyond the capability of AVIM to repair will be evacuated to Depot Maintenance. This level will perform special inspections which exceed AVUM capability. Provides quick response maintenance support, on-the-job training, and technical assistance through the use of mobile maintenance contact teams. Maintains authorized operational readiness float. Provides collections and classification services for serviceable/unserviceable material. Operates a cannibalization activity in accordance with AR 750-50.

(The aircraft maintenance company within the maintenance battalion of a division will perform AVUM functions consistent with air mobility requirements and conservation of personnel and equipment resources. Additional intermediate maintenance support will be provided by the supporting non-divisional AVIM unit.)

B-2. USE OF THE MAINTENANCE ALLOCATION CHART.

a. The MAC assigns maintenance functions to the lowest level of maintenance based on past experience and the following considerations:

- (1) Skills available.
- (2) Time required.
- (3) Tools and test equipment required and/or available.

b. Only the lowest level of maintenance authorized to perform a maintenance function is indicated. If the lowest level of maintenance cannot perform all tasks of any single maintenance function (e.g. , test, repair), then the higher maintenance level(s) that can accomplish additional tasks will also be indicated.

c. A maintenance function assigned to a maintenance level will automatically be authorized to be performed at any higher maintenance level.

d. A maintenance function that cannot be performed at the assigned level of maintenance for any reason may be evacuated to the next higher maintenance organization. Higher maintenance levels will perform the maintenance functions of lower maintenance levels when required or directed by the appropriate commander.

e. The assignment of a maintenance function will not be construed as authorization to carry the associated repair parts in stock. Authority to requisition, stock, or otherwise secure necessary repair parts will be as specified in the repair parts and special tools list appendix.

f. Normally there will be no deviation from the assigned level of maintenance. In cases of operational necessity, maintenance functions assigned to a maintenance level may, on a one-time basis and at the request of the lower maintenance level, be specifically authorized by the maintenance officer of the level of maintenance to which the function is assigned. The special tools, equipment, etc., required by the lower level of maintenance to perform this function will be furnished by the maintenance level to which the function is assigned. This transfer of a maintenance function to a lower maintenance level does not relieve the higher maintenance level of the responsibility of the function. 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.

g. Organizational through depot maintenance of the US Army Electronics Command equipment will be performed by designated US Army Electronics Command personnel.

h. Changes to the MAC will be based on continuing evaluation and analysis by responsible technical personnel and on reports received from field activities.

B-3. DEFINITIONS.

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 detect incipient failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. SERVICE. To clean, to preserve, to charge, and to add fuel, lubricants, cooling agents and air.

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

e. ALINE. To adjust specified variable elements of an item to bring to optimum performance.

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 or test equipment being compared with the certified standard.

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

h. REPLACE. To replace unserviceable items with serviceable assemblies, subassemblies or parts.

i. REPAIR. To restore an item to serviceable condition through correction of a specific failure or unserviceable condition. This includes, but is not limited to, inspection, cleaning, preserving, adjusting, replacing, welding, riveting, and strengthening.

j. OVERHAUL. To restore an item to a completely serviceable condition as prescribed by maintenance serviceability standards prepared and published for the specific item to be overhauled.

k. REBUILD. To restore an item to a standard as nearly as possible to the original or new condition in appearance, performance and life expectancy. This is accomplished through the maintenance technique of 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.

B-4. FUNCTIONAL GROUPS. Standard functional groupings are not considered feasible for aviation ground support equipment due to variation and complexity. Therefore, variations to functional groupings may occur.

B-5. MAINTENANCE CATEGORIES AND WORK TIMES. The maintenance categories (levels) AVUM, AVIM, and Depot are listed on the Maintenance Allocation Chart with individual columns that indicate the work times for maintenance functions at each maintenance level. Work time

presentations such as 0.1 indicate the average time it requires a maintenance level to perform a specified maintenance function. If a work time has not been established, the columnar presentation shall indicate "-.-". Maintenance levels higher than the level of maintenance indicated are authorized to perform the indicated function.

B-6. TOOLS AND TEST EQUIPMENT (Section III). Common tool sets (not individual tools), special tools, test and support equipment required to perform maintenance functions are listed alphabetically with a reference number to permit cross-referencing to column 5 in the MAC. In addition, the maintenance category authorized to use the device is listed along with the item National Stock Number (NSN) and, if applicable, the tool number to aid in identifying the tool/device.

Section II. MAINTENANCE ALLOCATION CHART							
NOMENCLATURE OF END ITEMS							
Maintenance Platform, Type B-4A							
(1) GROUP NUMBER	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE CATEGORY			(5) TOOLS AND EQUIPMENT	(6) REMARKS
			AVUM	AVIM	DEPOT		
00	Maintenance Platform						
01	Platform Assembly	Inspect Service Repair	0.2 0.5 1.0			102	
02	Scissors Assembly	Inspect Service Repair	0.2 0.5 1.0			102	
03	Frame Assembly, Main	Inspect Service Repair	0.2 0.5 1.0			102	
04	Hydraulic System						
0401	Pump Assembly	Inspect Test Service Replace Repair	0.3 0.2 0.3 0.8			102 111	
0402	Cylinder Assembly	Inspect Test Service Replace Repair	0.3 0.2 0.3 1.0		2.0 2.0	102 111	

SECTION III. TOOLS AND TEST EQUIPMENT

(1) TOOL OR TEST EQUIPMENT REFERENCE CODE	(2) MAINTENANCE CATEGORY	(3) NOMENCLATURE	(4) NSN
102	0	TOOL SET, AVUM, SET NO. 3	4920-00-567-0476
111	F	SHOP SET, AVIM, HYDRAULIC	4920-00-165-1454

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 Aviation Unit and Aviation Intermediate maintenance of the Type B-4A Adjustable Platform. 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).

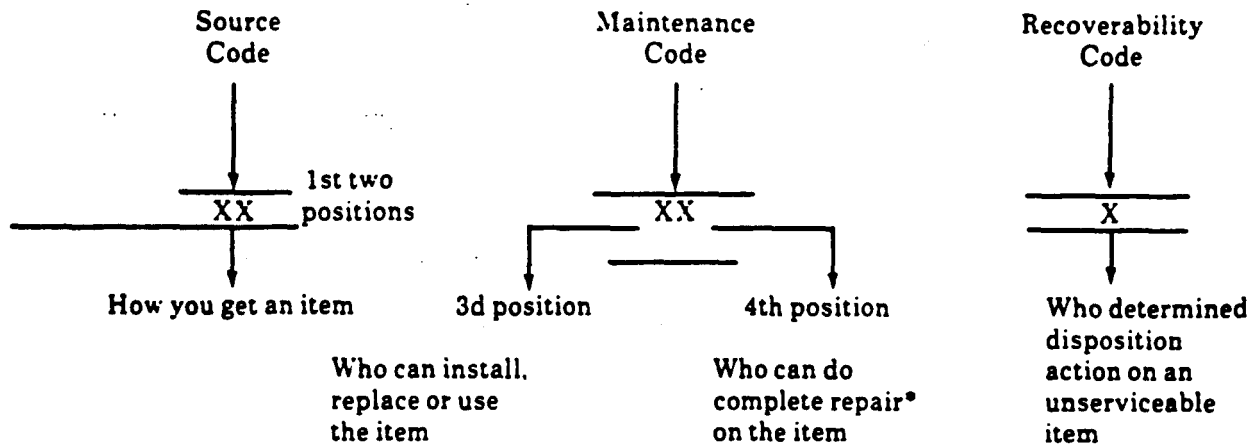
b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance. (Not applicable)

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.
KD KF KB	** NOTE Items coded PC are subject of deterioration. 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	Explanation
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)	Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified 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.

Code	Explanation
<p>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)</p>	<p>Items with these codes are not to be requested/requisitioned individually. The parts that make up the 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.</p>

- 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 available from salvage, order it using the FSCM and part number given.
- XC - Installation drawing, diagram, instruction sheet, field 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 tell 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
I	-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 repaired (ie. 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 repairable, condemn and dispose of the item at organizational or aviation unit level.
F	-Reparable item. When uneconomically repairable, condemn and dispose of the item at the direct support or aviation intermediate level.
H	-Reparable item. When uneconomically repairable, 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 ect. 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, specification 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 Cl (C) - Confidential, Phy Sec Cl (S)-Secret, Phy Sec Cl (T). 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 TM DE, and other special support equipment. When density 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, sub functional 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. $\frac{5305}{\text{NSN}} \cdot \frac{016741467}{\text{NIIN}}$). 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 0 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 the 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 on 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.

b. Index Numbers. Items which have the work 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.

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 groups.

(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 List 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-4a(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.

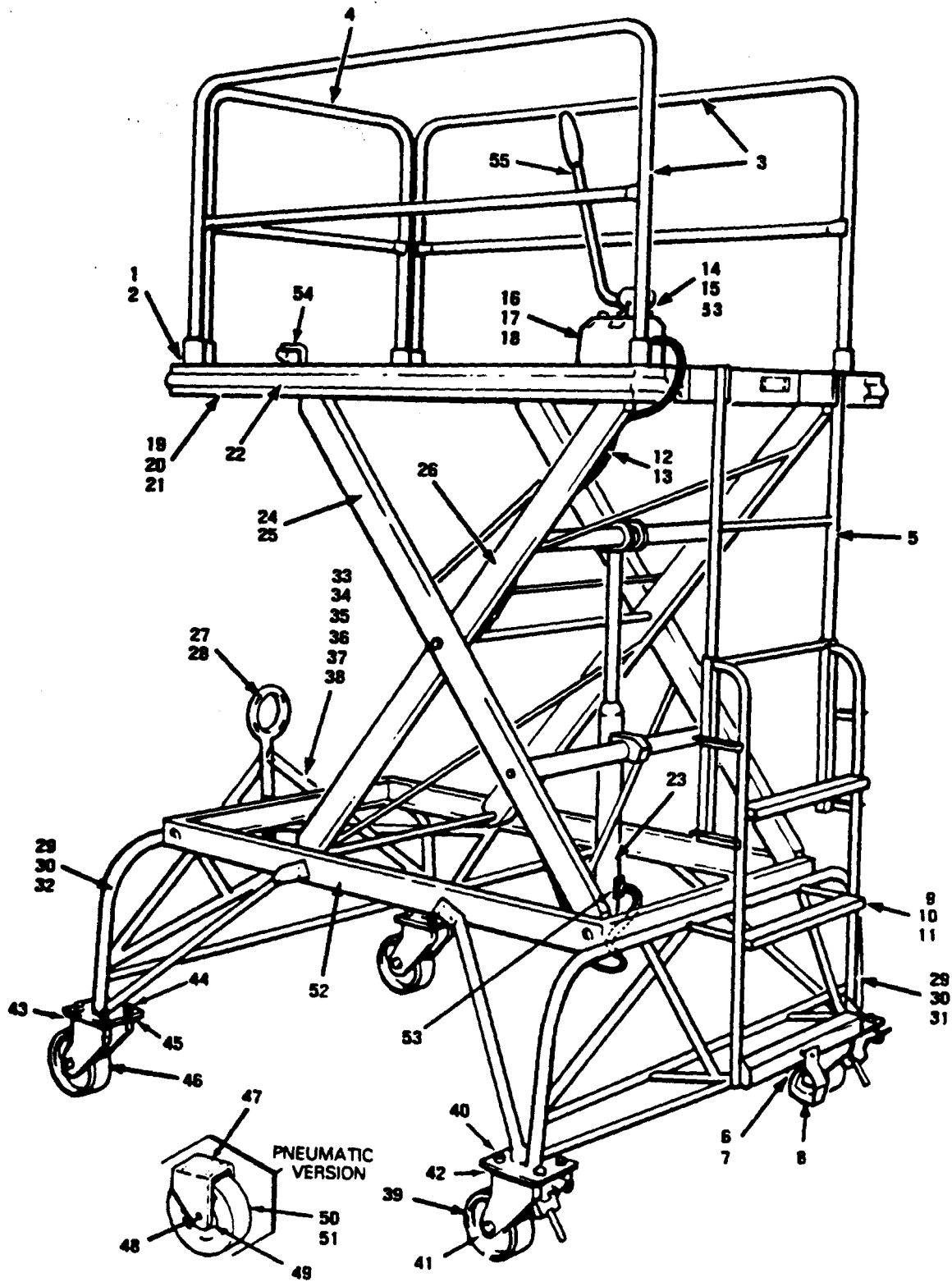


Figure C-1 Platform, Aircraft Maintenance, Type B-3-A

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
GROUP 01. PLATFORM ASSEMBLY					
FIGURE C1. PLATFORM, AIRCRAFT MAINTENANCE, TYPE B-4A					
1	PBFZZ	96906	MS21044N4	NUT,SELF-LOCKING ,HEXAGON	12
2	PAOZZ	88044	AN4-6A	BOLT,MACHINE	8
3	XDOZZ	98750	51D24864	RAIL,PLATFORM,SIDE	2
4	XDOZZ	98750	51D24863	RAIL,PLATFORM,END	1
5	XDOZZ	98750	51D24860	LADDER,PLATFORM,UPP	1
6	PAOZZ	88044	AN6-10A	BOLT,MACHINE	3
7	PAOZZ	96906	MS21044N6	NUT,SELF-LOCKING,HE ,HEXAGON	20
8	PAOZZ	96906	MS51335-2	PINTLE ASSEMBLY,TO ,TOW	1
9	PAOZZ	96906	MS24665-136	PIN,COTTER	4
10	PAOZZ	88044	AN6-7A	BOLT,MACHINE	2
11	XDOZZ	98750	54E6349	LADDER,PLATFORM,MAI	1
12	XDOZZ	96906	MS24621-15	SCREW,TAPPING,THREA ,THREAD FORMING	10
13	PAOZZ	96906	MS28741-5-1070	HOSE ASSEMBLY,NONME METALLIC	1
14	PAOZZ	88044	AN3-16A	BOLT,MACHINE -PUMP HANDLE MTG	1
15	PAOZZ	96906	MS21044N3	NUT,SELF-LOCKING ,HEXAGON-PUMP HANDLE MTG	1
16	PAOZZ	88044	AN4-7A	BOLT,MACHINE	4
17	PAOZZ	96906	MS21044N4	NUT,SELF-LOCKING,HE	4
18	PBOZZ	07505	P307-2	PUMP,HYDRAULIC RAM, -PLATFORM-HAND DRIVEN SEE FIGURE C3 FOR BREAKDOWN	1
19	XDOZZ	96906	MS24621-30	SCREW,TAPPING ,THREAD FORMING	34
20	PAOZZ	88044	AN960-8	WASHER,FLAT	34
21	PAOZZ	81349	MILB4792	BUMPER STRIP,RUBBER -100 FT LG	V
22	XDOZZ	98750	51E24855	PLATE,FLOOR -PLATFORM	1
23	PAOZZ	26953	RA598-1	CYLINDER ASSEMBLY,A ACTUATING LINEAR SEE FIG C4 FOR BREAKDOWN	1
24	PAOZZ	88044	AN6-14A	BOLT,MACHINE	4
25	XDOZZ	98750	51D24865	SCISSORS,OUTSIDE SEE FIG C2 FOR MTG	1
26	XDOZZ	98750	51D24866	SCISSORS,INSIDE SEE FIG C2 FOR MTG	1
27	PAOZZ	98750	51A24898	SPACER,SLEEVE -TOW BAR MTG	2
28	XDOZZ	98750	54D6282	BAR,LUNETTE	1
29	PAOZZ	88044	AN6-21A	BOLT,MACHINE	8
30	PAOZZ	98750	51A24897	BUSHING,SLEEVE	1
31	XDOZZ	98750	54E6348	LEG,REAR	1
32	XDOZZ	98750	54E6347	LEG,PLATFORM	1
33	PAOZZ	88044	AN6-7	BOLT,MACHINE	2
34	XDOZZ	98750	54B6290	CATCH,TOWBAR	1
35	PAOZZ	96906	MS24665-283	.PIN,COTTER	1
36	XDOZZ	98750	54C6291	.CATCH,SAFETY -TOWBAR	1
37	XDOZZ	98750	54A6298	.SPRING,HELICAL COMPRESSION	1
38	XDOZZ	98750	54C6289	.BRACKET ,SAFETY CATCH	1
39	PBOZZ	06004	7608	WHEEL,CASTER	4
40	PAOZZ	88044	AN8-11A	BOLT,MACHINE	4
41	PAOZZ	88044	AN8-13A	BOLT	1
42	PAOZZ	88044	AN365-820	NUT	4
43	PBOZZ	06004	B8HC3R2TSL4	CASTER,SWIVEL W/BRAKE	2

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
44	PAOZZ	88044	AN4-11A	BOLT, MACHINE	4
45	PAOZZ	88044	AN365-820	NUT	4
46	PAOZZ	06004	RLA-10529-3R-12	WHEEL, CASTER	1
47	XDOZZ	96906	MS24373-6WSF	CASTER, SWIVEL	2
48	XDOZZ	96906	MS24329-1	HUB, ASSEMBLY, FORK M	4
49	PBOZZ	96906	MS24323-1	WHEEL, PNEUMATIC TIR	4
50	PBOZF	81348	ZZ-T-410/G1/TA/4 .10-6/B/PLRB	TIRE, PNEUMATIC	4
51	PBOZZ	96906	MS35392-48	INNER TUBE, PNEUMATIC	4
52	XDOZZ	53327	51E24856	FRAME, PLATFORM	1
53	PAOZZ	13899	AN816-5-4B	ADAPTER	2
54	PAOZZ	80049	51C24894	PIN ASSEMBLY, LOCK M	1
55	PAOZZ	80049	51C24893	HANDLE	1

END OF FIGURE

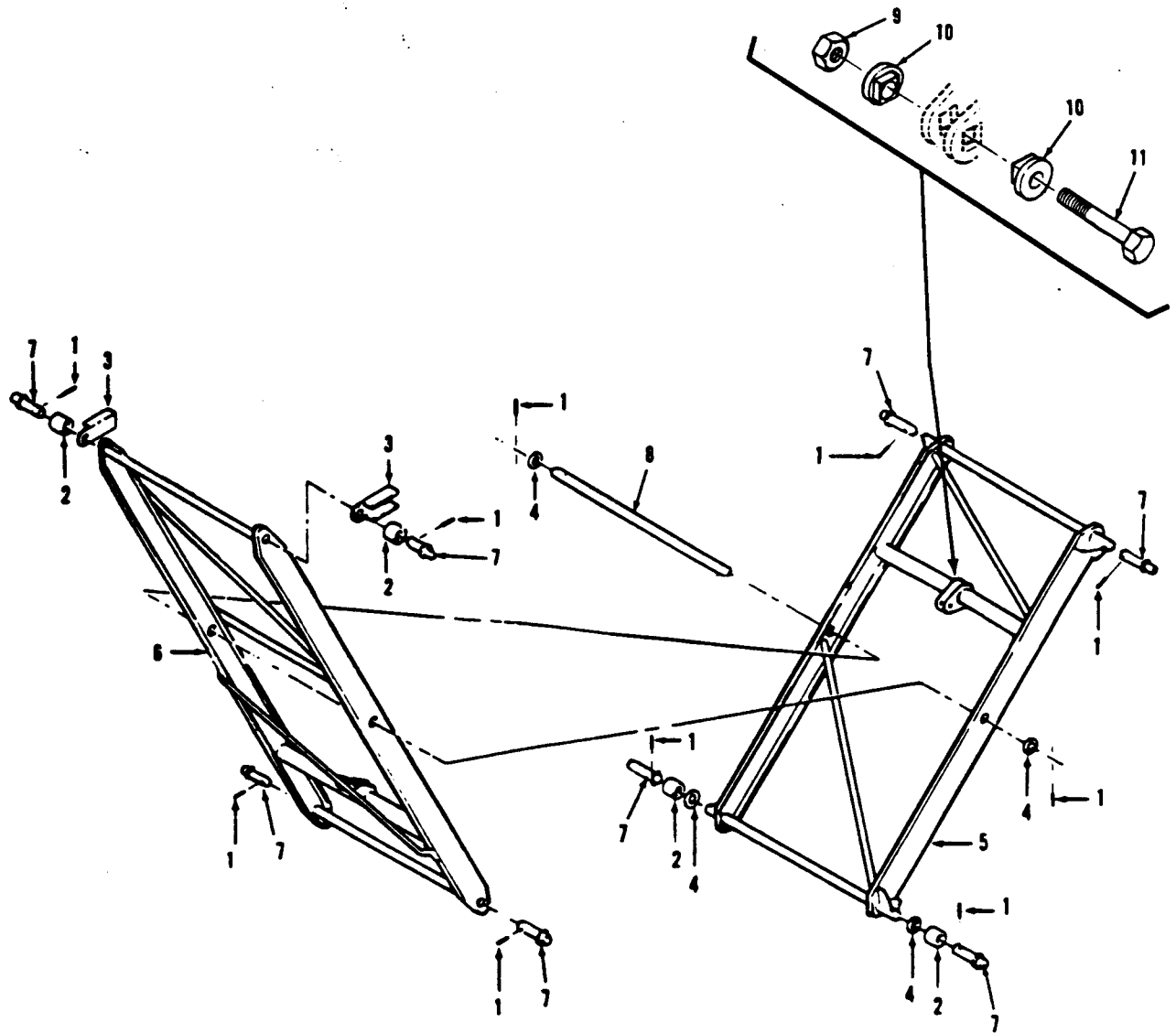


Figure C-2. Scissors Assembly, Exploded View

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
GROUP 02. SCISSORS ASSEMBLY					
FIGURE C2. SCISSORS ASSEMBLY, EXPLODED VIEW					
1	PBOZZ	96906	MS16562-50	PIN, SPRING	10
2	XDFZZ	98750	51B24891	ROLLER, LINEAR-ROTARY MOTION	4
3	XDFZZ	98750	52B6276	SHIELD, PIN, STEEL	2
4	PBFZZ	88044	AN960-1016	WASHER, FLAT	4
5	XDFZZ	98750	51D24866	SCISSORS, PLATFORM-OUTSIDE	1
6	XDOZZ	98750	51D24865	SCISSORS, PLATFORM-OUTSIDE	1
7	XDFZZ	98750	51B24889	HINGE, PIN	8
8	XDFZZ	98750	51C24875	PIN, SCISSORS	1
9	PBFZZ	88044	AN365-624	NUT, SELF-LOCKING, HEX	1
10	PBFZZ	80049	51B24890-1	BUSHING, SLEEVE	1
11	PBFZZ	88044	AN6-33A	BOLT, MACHINE	1

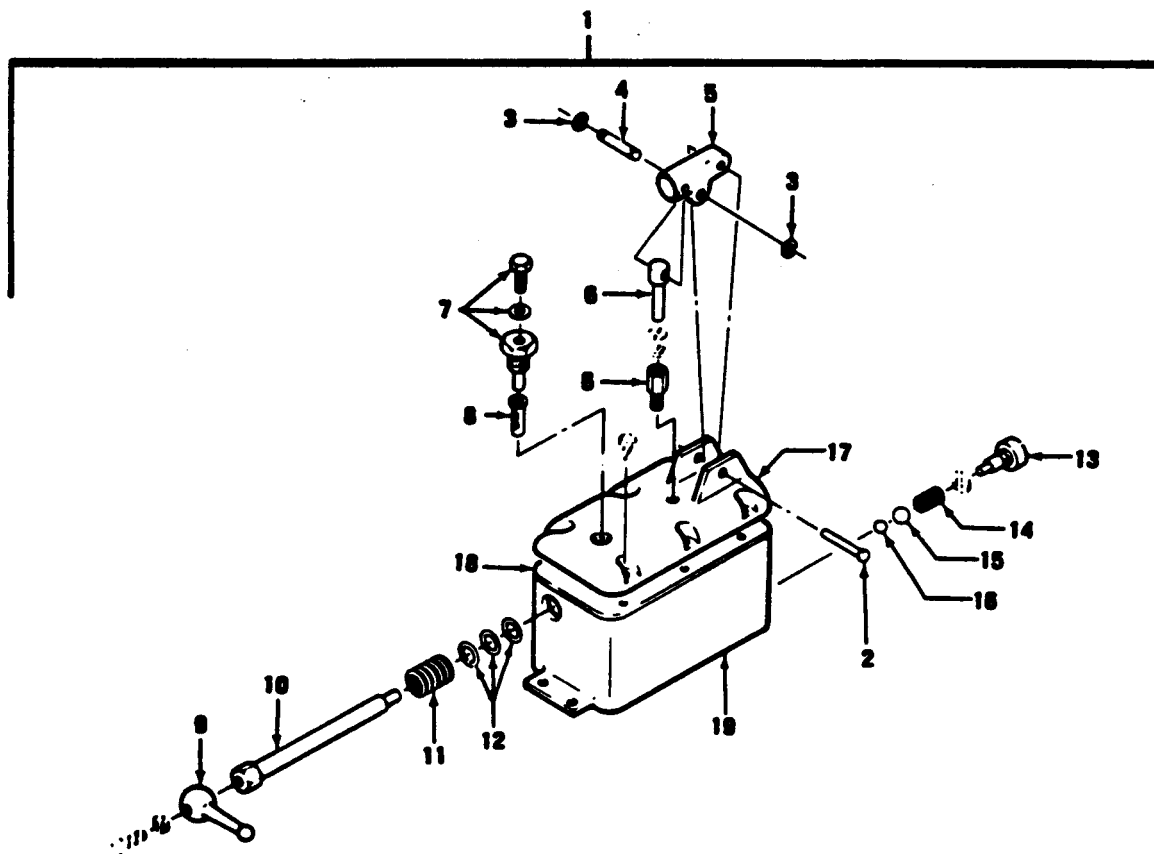


Figure C-3. Hand Hydraulic Pump Assembly, Exploded View

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
GROUP 03. HYDRAULIC SYSTEM					
FIGURE C3. HAND HYDRAULIC PUMP ASSEMBLY, EXPLODED VIEW					
1	PAOZZ	07505	P307-2	PUMP, HYDRAULIC RAM, -HAND DRIVEN	1
2	PBOZZ	07505	P146-57	.PIN, STRAIGHT, HEADLE	1
3	PBFZZ	07505	P146-545	.RING, RETAINING	2
4	PBOZZ	07505	P148-57	.PIN, GROOVED, HEADLESS	1
5	XDOZZ	26953	B8011060	.ADAPTER, PUMP HANDLE	1
6	XDFZZ	07505	H126-900	.CYLINDER ASSEMBLY W/PISTON	1
7	PBFZZ	98750	50B7763	.VENT, JACK RESERVOIR	1
8	XDFZZ	07505	P307-18	.SCREEN, STAND PUMP	1
9	PBFZZ	07505	P60-12	.LEVER, MANUAL CONTRO	1
10	PBFZZ	07505	H7-900	.SPINDLE, RELEASE VAL	1
11	PBOZZ	07505	P60-11	.INSERT, SCREW THREAD	1
12	PBFZZ	94404	995-262	.WASHER, FLAT	3
13	XDFZZ	07505	P307-186	.PLUG, VALVE	1
14	PBFZZ	07505	S1-183	.SPRING, HELICAL, C	1
15	PBOZZ	96906	MS19059-53	.BALL, BEARING -3/8 IN.DIA	1
16	PBFZZ	96906	MS19059-50	.BALL, BEARING -9/32 IN.DIA	1
17	XDOZZ	07505	H149-900	.COVER, BASE	1
18	PBFZZ	07505	P307-161	.GASKET--PUMP COVER	1
19	PBFZZ	07505	P307-05	.HOUSING, HYDRAULIC PUMP	1

END OF FIGURE

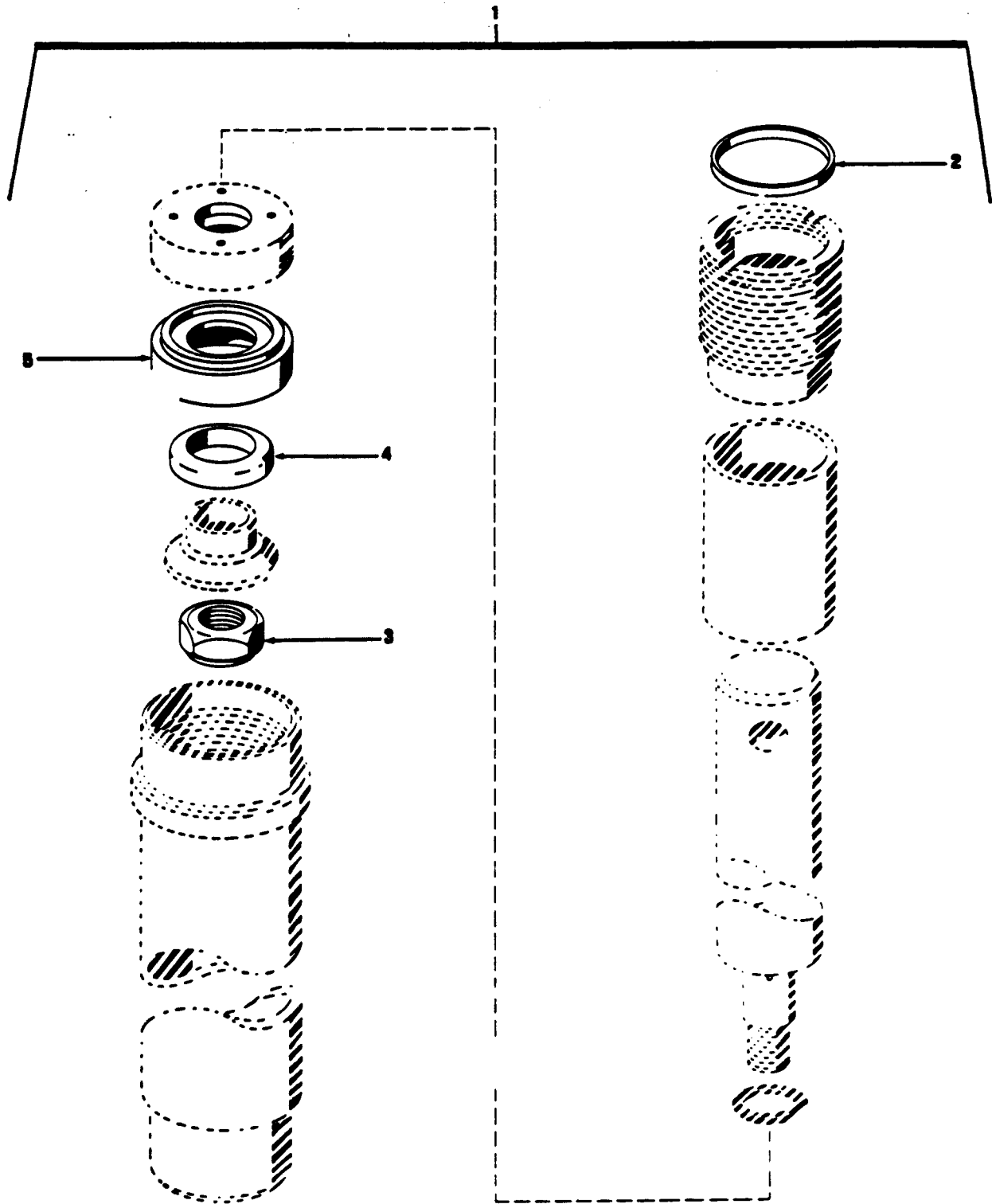


Figure C-4. Linear Actuating Cylinder Assembly, Exploded View

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
				FIGURE C4. LINEAR ACTUATING CYLINDER ASSEMBLY, EXPLODED VIEW	
1	PBFZZ	98750	RA598-1	CYLINDER ASSY ACTUA SEE FIG C1 FOR NHA	1
2	XDFZZ	07505	R801-75	.PACKING,PREFORMED	1
3	XDFZZ	07505	A5-035	.NUT,SELF-LOCKING,HE	1
4	XDFZZ	07505	A3-808	.GROMMET	1
5	XDFZZ	07505	A2-041	.CUP,COMPRESSION	1

END OF FIGURE

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG	ITEM	STOCK NUMBER	FIG	ITEM
5315-00-017-9252	C1	9			
1730-00-030-8387	C1	54			
2610-00-051-9114	C1	51			
3110-00-100-6152	C3	16			
3110-00-100-6155	C3	15			
5306-00-151-0778	C1	14			
5306-00-151-1423	C1	44			
5306-00-151-1426	C1	2			
5310-00-167-0825	C2	4			
5306-00-206-2865	C1	24			
5306-00-208-3636	C1	6			
5306-00-208-3646	C1	40			
1730-00-212-4500	C3	7			
5310-00-298-5502	C3	12			
4320-00-303-1088	C1	18			
	C3	1			
5340-00-371-6507	C3	11			
5330-00-377-5503	C3	18			
5315-00-393-7062	C3	2			
3120-00-439-0067	C1	30			
5310-00-515-8058	C1	20			
5306-00-515-8064	C1	16			
2530-00-529-2706	C1	49			
5306-00-531-8979	C1	10			
5360-00-584-1595	C3	14			
5365-00-598-1331	C3	3			
4720-00-640-0398	C1	13			
1730-00-640-5968	C1	23			
1730-00-651-8476	C3	10			
5340-00-692-0036	C1	21			
5340-00-724-2647	C1	39			
5315-00-759-7413	C3	4			
4210-00-797-8334	C3	19			
5315-00-814-3531	C2	1			
2540-00-835-9039	C1	8			
5315-00-842-3044	C1	35			
5310-00-877-5796	C1	1			
	C1	17			
5310-00-877-5797	C1	15			
5365-00-883-5417	C1	27			
5310-00-950-0039	C1	7			
3040-00-996-7209	C3	9			

SECTION IV TM55-1730-215-13&P C2
 NATIONAL STOCK NUMBER INDEX AND PART NUMBER INDEX

FSCM	PART NUMBER	PART NUMBER INDEX STOCK NUMBER	FIG	ITEM
88044	AN3-16A	5306-00-151-0778	C1	14
88044	AN365-820		C1	42
			C1	45
88044	AN4-11A	5306-00-151-1423	C1	44
88044	AN4-6A	5306-00-151-1426	C1	2
88044	AN4-7A	5306-00-515-8064	C1	16
88044	AN6-10A	5306-00-208-3636	C1	6
88044	AN6-14A	5306-00-206-2865	C1	24
88044	AN6-21A		C1	29
88044	AN6-7		C1	33
88044	AN6-7A	5306-00-531-8979	C1	10
88044	AN8-11A	5306-00-208-3646	C1	40
88044	AN8-13A		C1	41
13899	AN816-5-4B		C1	53
88044	AN960-1016	5310-00-167-0825	C2	4
88044	AN960-8	5310-00-515-8058	C1	20
07505	A2-041		C4	5
07505	A3-808		C4	4
07505	A5-035		C4	3
06004	B8HC3R2TSL4		C1	43
26953	B8011060		C3	5
07505	H126-900		C3	6
07505	H149-900		C3	17
07505	H7-900	1730-00-651-8476	C3	10
81349	MILB4792	5340-00-692-0036	C1	21
96906	MS16562-50	5315-00-814-3531	C2	1
96906	MS19059-50	3110-00-100-6152	C3	16
96906	MS19059-53	3110-00-100-6155	C3	15
96906	MS21044N3	5310-00-877-5797	C1	15
96906	MS21044N4	5310-00-877-5796	C1	1
			C1	17
96906	MS21044N6	5310-00-950-0039	C1	7
96906	MS24323-1	2530-00-529-2706	C1	49
96906	MS24329-1		C1	48
96906	MS24373-6WSF		C1	47
96906	MS24621-15		C1	12
96906	MS24621-30		C1	19
96906	MS24665-136	5315-00-017-9252	C1	9
96906	MS24665-283	5315-00-842-3044	C1	35
96906	MS28741-5-1070	4720-00-640-0398	C1	13
96906	MS35392-48	2610-00-051-9114	C1	51
96906	MS51335-2	2540-00-835-9039	C1	8
07505	P146-545	5365-00-598-1331	C3	3
07505	P146-57	5315-00-393-7062	C3	2
07505	P148-57	5315-00-759-7413	C3	4
07505	P307-05	4210-00-797-8334	C3	19
07505	P307-161	5330-00-377-5503	C3	18
07505	P307-18		C3	8
07505	P307-186		C3	13
07505	P307-2	4320-00-303-1088	C1	18
			C3	1

SECTION IV TM55-1730-215-13&P C2
 NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG	ITEM
07505	P60-11	5340-00-371-6507	C3	11
07505	P60-12	3040-00-996-7209	C3	9
26953	RA598-1	1730-00-640-5968	C1	23
			C4	1
06004	RLA-10529-3R-12		C1	46
07505	R801-75		C4	2
07505	S1-183	5360-00-584-1595	C3	14
81348	ZZ-T-410/G1/TA/4 .10-6/B/PLRB		C1	50
98750	50B7763	1730-00-212-4500	C3	7
98750	51A24897	3120-00-439-0067	C1	30
98750	51A24898	5365-00-883-5417	C1	27
98750	51B24891		C2	2
80049	51C24893		C1	55
80049	51C24894	1730-00-030-8387	C1	54
98750	51D24860		C1	5
98750	51D24863		C1	4
98750	51D24864		C1	3
98750	51D24865		C1	25
			C2	6
98750	51D24866		C1	26
			C2	5
98750	51E24855		C1	22
53327	51E24856		C1	52
98750	52B6276		C2	3
98750	54A6298		C1	37
98750	54B6290		C1	34
98750	54C6289		C1	38
98750	54C6291		C1	36
98750	54D6282		C1	28
98750	54E6347		C1	32
98750	54E6348		C1	31
98750	54E6349		C1	11
06004	7608	5340-00-724-2647	C1	39
94404	995-262	5310-00-298-5502	C3	12

APPENDIX D

EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

D-1. SCOPE. This appendix lists expendable supplies and materials will need to operate and maintain the Maintenance Platform.

These items are authorized to you by CTA 50-970, Expendable Items (except Medical, Class V, Repair Parts, and Heraldic Items).

D-2. EXPLANATION OF COLUMNS.

a. Column 1 Item Number. This number is assigned to the entry in the listing.

b. Column 2 Level. This column identified the lowest level of maintenance that requires the listed item.

C Operator/Crew

0 Aviation Unit Maintenance

F . . . Aviation Intermediate Maintenance

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

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

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

Expendable Supplies and Materials List

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
1	0	9150-00-689-4138	Lubricating Oil, General Purpose, MIL-L-15016B	qt.
2	0	9150-00-190-0904	Grease, Automotive and Artillery, MIL-G-10924B	lb.

EXPENDABLE SUPPLIES AND MATERIALS LIST (CONT)

(1)	(2)	(3)	(4)	(5)
ITEM NUMBER	LEVEL	NATIONAL STOCK NUMBER	DESCRIPTION	U/M
3	0	9150-00-149-7431	HYDRAULIC FLUID PETROLEUM BASE, MIL-H-5606b OR MIL-H-83282	QT.
4	0	6810-00-274-5421	DRY CLEANING SOLVENT P-D-680, TYPE II	GAL.

APPENDIX E

ILLUSTRATED LIST OF MANUFACTURED ITEMS

E-1. INTRODUCTION.

a. This appendix includes complete instructions for making items authorized to be manufactured or fabricated at AVUM. See figure E-1.

b. A part number index in alphameric order is provided for cross-referencing the part number of the item to be manufactured to the figure which covers fabrication criteria.

c. All bulk materials needed for an item are listed by part number or specification number in a tabular list on the illustration.

E-2. MANUFACTURED ITEMS PART NUMBER INDEX

MS19059-90	Figure E-1
MS19059-53	Figure E-1

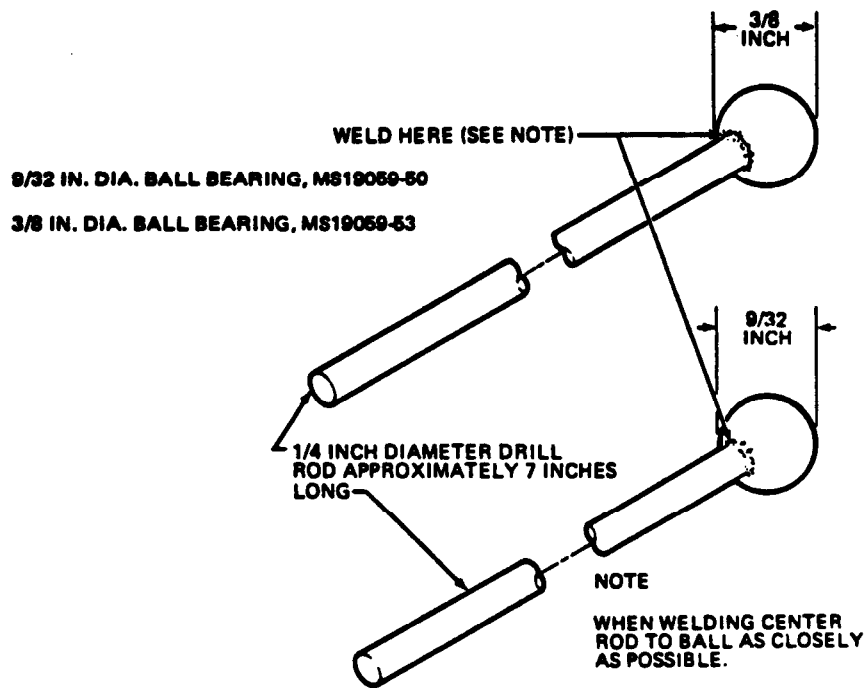


Figure E-1. Seat Grinding Tools

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RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN... JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT. FOLD IT AND DROP IT IN THE MAIL!

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)
PFC JOHN DOE
COA, 3d ENGINEER BN
FT. LEANBARROW, MD 63108
 DATE SENT

PUBLICATION NUMBER
TM 55-1730-215-13 & P

PUBLICATION DATE
19 Aug 82

PUBLICATION TITLE **Maint Platform**
Adjust Acft P7N 5456345
 (Type B-4A)

BE EXACT... PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO
6	2-1 a		
B1		4-3	
125	line 20		

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

In line 6 of paragraph 2-1a the manual states the engine has 6 cylinders. The engine on my set only has 4 cylinders. Change the manual to show 4 cylinders.

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.

I ordered a gasket, item 19 on figure B-16 by NSN 2910-08-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

JOHN DOE, PFC (268) 317.7111

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JOHN DOE

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Chief of Staff

Official:

ROBERT M. JOYCE
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The Adjutant General

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To be distributed in accordance with DA Form 12-31, All Fixed and Rotor Winged Aircraft, Organizational Maintenance

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 dekagram = 10 grams = .35 ounce
 1 hectogram = 10 dekagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.406	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit	5/9 (after	Celsius	°C
	temperature	subtracting 32)	temperature	

