

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS LIST

FOR

LIFT, TRUCK
MODEL RMI-R3
(RUST MANUFACTURING COMPANY)
(NSN 4910-00-554-5983)

HEADQUARTERS, DEPARTMENT OF THE ARMY

APRIL 1981

TECHNICAL MANUAL

No. 9-4910-720-14&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 30 April 1981

Operator's, Organizational, Direct Support
And General Support Maintenance Manual
Including Repair Parts List
For

**LIFT, TRUCK
MODEL RMI-R3
(NSN 4910-00-554-5983)**

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, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS, Rock Island, IL 61299. A reply will be furnished directly to you.

NOTE

This manual is published for the purpose of identifying an authorized commercial manual for the use of the personnel to whom this truck lift is issued.

**Manufactured by: Rust Manufacturing, Inc.
1541 Paramount
Azusa, CA 91702**

Procured under Contract No. DAAA09-79-C-4605

This technical manual is an authentication of the manufacturer's commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

INSTRUCTIONS FOR REQUISITIONING PARTS NOT IDENTIFIED BY NSN

When requisitioning parts not identified by National Stock Number, it is mandatory that the following information be furnished the supply officer.

- 1 - Manufacturer's Federal Supply Code Number - 6L455
- 2 - Manufacturer's Part Number exactly as listed herein.
- 3 - Nomenclature exactly as listed herein, including dimensions, if necessary.
- 4 - Manufacturer's Model Number - Model RMI-R3
- 5 - Manufacturer's Serial Number (End Item)
- 6 - Any other information such as Type, Frame Number, and Electrical Characteristics, if applicable.
- 7 - If DD Form 1348 is used, fill in all blocks except 4, 5, 6, and Remarks field in accordance with AR 725-50.

Complete Form as Follows:

- (a) In blocks 4, 5, 6, list manufacturer's Federal Supply Code Number - 6L455 followed by a colon and manufacturer's Part Number for the repair part.
- (b) Complete Remarks field as follows:
Noun: (nomenclature of repair part)
For: NSN: 4910-00-554-5983
Manufacturer: Rust Manufacturing, Inc.

Model: RMI-R3
Serial: (of end item)

Any other pertinent information such as Frame Number, Type, Dimensions, etc.

RMI -R3

DESCRIPTION:

The RMI -R3 wheel dolly has been designed to remove, replace and convey automotive type wheels and tire assemblies. It has a load capacity of 1500 pounds (DO NOT OVERLOAD).

OPERATION:

The RMI -R3 wheel dolly has a hydraulic lifting unit operated by a removable handle. Lock the shut off valve, located on the right side of the base of the hydraulic cylinder, by turning the valve clockwise. Place the handle in the pump sleeve and pump handle until the lifting arms reach the desired height. To lower the lifting arm rotate shut off valve counter-clockwise. The speed of drop will be controlled by amount the shut off valve is opened.

The RMI -R3 is equipped with a safety chain. This chain is used for securing the wheel assembly to the dolly for the purpose of conveying from one work area to another.

SAFETY PRECAUTION:

Keep hands and fingers clear of the rollers between the lifting arms and the lifting arm standards. Keep feet clear of the lifting arms when lowering. Also stay clear of the wheels and casters when conveying from point to point.

TROUBLESHOOTING:

If the unit is not lifting, check the hydraulic cylinder for fluid. If the unit is low on fluid be sure to use only hydraulic jack fluid covered by MIL-F-17111. DO NOT USE HYDRAULIC BRAKE FLUID. When filling, lower the cylinder to the bottom of its stroke and fill in an upright position. Fill to the plug level only.

If the unit will not turn properly, first check for blockage around the wheels, then check for any dirt or grit in the swivel caster. Make sure all wheel hearings are clean and well lubricated. Each wheel has lube fitting. Use any good chassis lube as your lubricant.

REPAIRS:

For wheel repair simply remove the wheel and replace. The two rigid wheels are removed by removing the axle bolt and replaced by reinstalling the axle bolt. The swivel caster is removed by removing the four mounting bolts and is replaced by reinstalling the four mounting bolts. The hydraulic cylinder is removed from the jack mount and replaced. The lifting arm can be removed by removing four pins that hold the rollers.

NOTE : See illustration for clarity.

CLEANING & LUBRICATION:

Keep lifting arms and lifting arm standards clean from dirt and grit. Use a mild soap and water solution or mild solvent. Do not use caustic abrasive substances in this area. The wheels may be cleaned with a solvent; allow to dry and lubricate with a good grade of chassis lube. Each wheel has a grease fitting. There is very little service required on the RMI -R3 wheel dolly.

PARTS LIST:

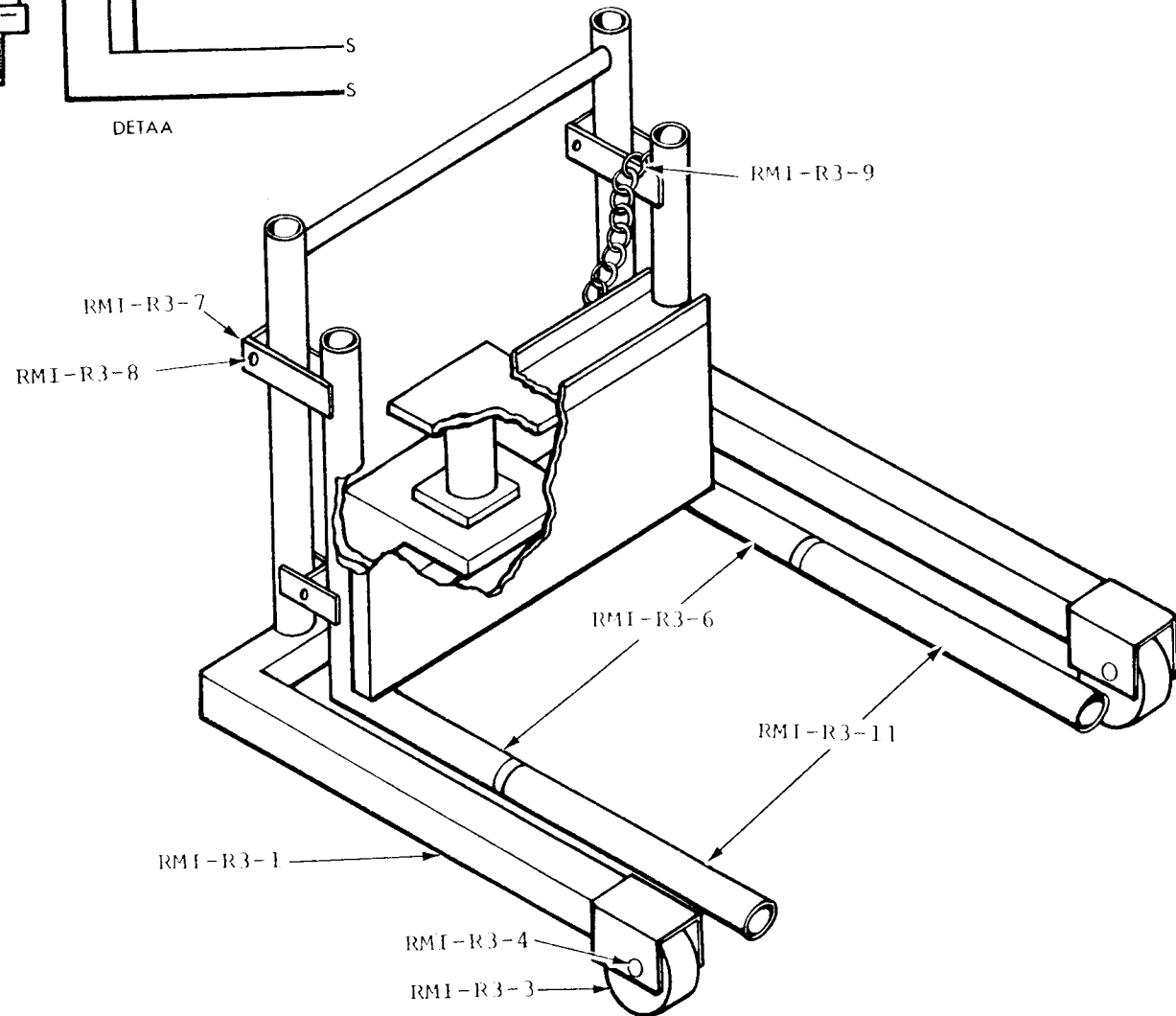
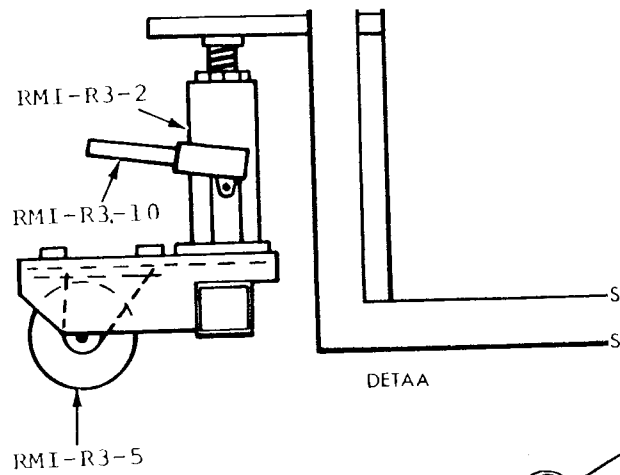
FRAME	PART NO.	RMI -R3-1
HYDRAULIC CYLINDER		RMI -R3-2
WHEEL		RMI -R3-3
WHEEL AXLE		RMI -R3-4
CASTER		RMI -R3-5
LIFTING ARM ASSEMBLY		RMI -R3-6
ROLLER		RMI -R3-7
ROLLER PINS		RMI -R3-8
CHAIN & CLIP		RMI -R3-9
HYDRAULIC HANDLE		RMI -R3-10
LIFTING ARM SLEEVE		RMI -R3-11

CAUTIONS & WARNING NOTES:

The RMI -R3 wheel dolly has been designed to handle loads to 1500 pounds. DO NOT OVERLOAD.

When filling hydraulic unit use only hydraulic jack fluid covered by MIL-F-17111. DO NOT USE HYDRAULIC BRAKE FLUID.

RMI-R3 Wheel Dolly



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NO.

18

PARA-
GRAPH

4

FIGURE
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AND WHAT SHOULD BE DONE ABOUT IT:

Shut off valve turns clockwise to lock, not
counterclockwise.

SAMPLE

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

JOHN DOE SP/4

XXX-XXXX

SIGN HERE:

John Doe

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11-85 (1)
11-97 (1)
11-302 (1)
11-500 (AA-AC) (1)
29-134 (1)
29-136 (1)
29-207 (2)
29-610 (2)

NG: State AG (O); Units - None

USAR: None

For explanation of abbreviations used, see AR 310-50

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