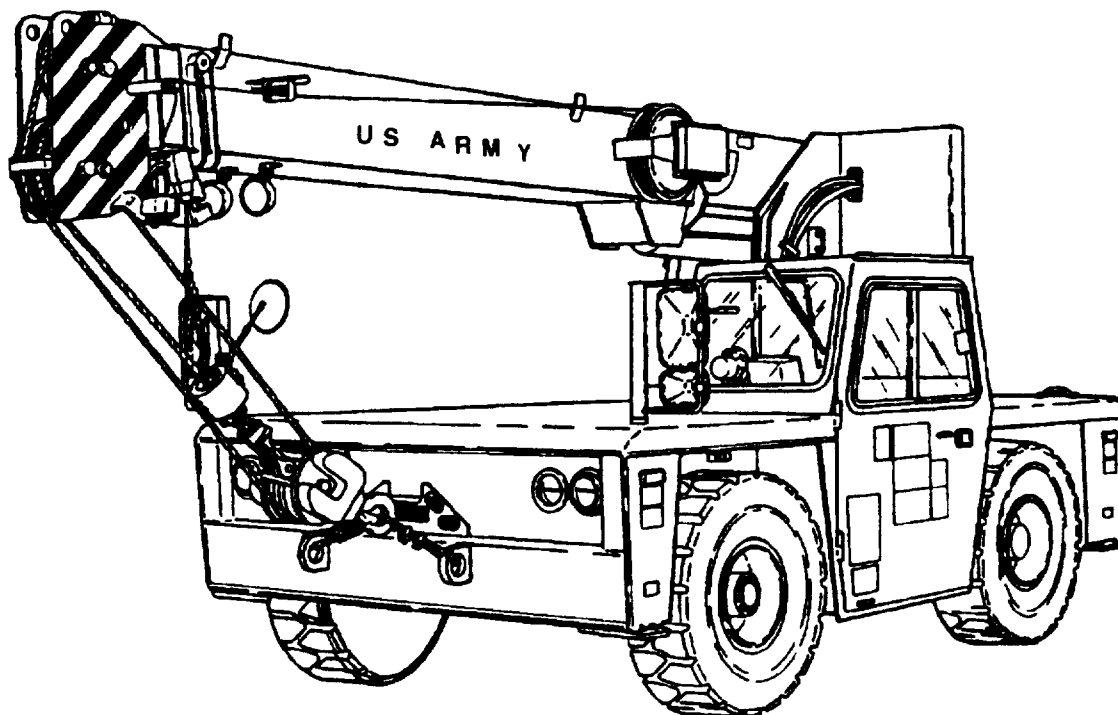

TECHNICAL MANUAL

Operator's Manual
for
WAREHOUSE CRANE
10,000 LB. CAPACITY, M469
WHEELED, DIESEL POWERED
NSN 3950-01-412-5345
(Grove Model AP 308T)



Approved for public release: Distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

JUNE 1997

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**HEADQUARTERS,
DEPARTMENT OF THE ARMY
Washington, DC, 15 June 1997**

REPORTING OF ERRORS

You can 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 Tank-automotive and Armaments Command, ATTN: AMSTA-IMOPIT, Warren MI 48397-5000. A reply will be furnished to you. You may also provide DA Form 2028-2 information to TACOM via datafax or e.mail.

TACOM's datafax number for AMSTA-IM-OPIT is: (810) 574-6323 e.mail address is: tacom-tech-pubs@cc.tacom.army.mil

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TABLE OF CONTENTS

	Page
HOW TO USE THIS MANUAL	iii
SECTION 1 GENERAL	1-1
Introduction	1-1
List of Specifications	1-1
SECTION 2 SAFETY PRECAUTIONS	2-1
General	2-1
Travel Operation.....	2-7
Craning Operation.....	2-8
Wire Rope and Sheaves.....	2-13
Controlled Free-Fall Hoist	2-17
Electrical Hazards	2-18
Personnel Platforms	2-23
Cold Weather Operation	2-23
Don't Forget	2-24
SECTION 3 PREPARATION FOR USE	3-1
Summary	3-1
Unpacking.....	3-1
Checking Unpacked Equipment	3-1
Deprocessing Unpacked Equipment	3-1
Preliminary Servicing and Adjustment	3-1

TABLE OF CONTENTS - Continued

SECTION 4	PRINCIPLES OF OPERATION	4-1
	General	4-1
	Major Components and Systems	4-1
SECTION 5	OPERATING INSTRUCTIONS	5-1
	Controls and Indicators	5-1
	Preventive Maintenance Checks and Services (PMCS)	5-8
	Operating Procedures	5-23
SECTION 6	MAINTENANCE INSTRUCTIONS	6-1
	Lubrication Instructions	6-1
	Troubleshooting	6-12
	Installing Cable on the Hoist	6-29
	Cable Reeving	6-30
	Installing Wedge and Socket	6-31
APPENDIX A	REFERENCES	A-1
APPENDIX B	COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LIST	B-1
APPENDIX C	ADDITIONAL AUTHORIZATION LIST	C-1
APPENDIX D	EXPENDABLE/DURABLE SUPPLIES AND MATERIALS LIST	D-1
APPENDIX E	LOAD CHART	F-1
INDEX	ALPHABETICAL INDEX	INDEX-1

HOW TO USE THIS MANUAL

This manual is designed to help you operate and maintain the equipment. All task descriptions will take you step-by-step through the procedure. Don't take shortcuts. Before you begin any task, you should read through the complete procedure, make sure you know what needs to be done, then go back and follow the steps as written.

Pay particular attention to WARNINGS and CAUTIONS, as they contain information that will prevent injury to personnel or damage to equipment.

Use the alphabetical index at the back of the manual to find a topic not listed in the table of contents.

The definitions of WARNING, CAUTION, and NOTE as used in this manual apply as follows:

WARNING

A WARNING IS USED TO EMPHASIZE THAT IF AN OPERATION, PROCEDURE, OR PRACTICE IS NOT FOLLOWED EXACTLY, DEATH OR INJURY TO PERSONNEL MAY RESULT.

CAUTION

A CAUTION IS USED TO EMPHASIZE THAT IF AN OPERATION, PROCEDURE, OR PRACTICE IS NOT FOLLOWED EXACTLY, EQUIPMENT DAMAGE MAY RESULT.

NOTE

A note is used to emphasize an important procedure or condition.

DO NOT OVERLOAD

Weight of load should always be known before any attempt is made to lift it.

WARNING

DO NOT OPERATE THIS CRANE WITH A JIB (SWINGAWAY OR EXTENSION) TAKEN FROM ANOTHER CRANE OR WITH ONE ORDERED AND FIELD INSTALLED UNLESS THE PROPER JIB LOAD CHART HAS BEEN INSTALLED IN THE CRANE CAB.

WARRANTY

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MADE BY EITHER THE DISTRIBUTOR OR THE MANUFACTURER ON NEW GROVE EQUIPMENT, EXCEPT THE MANUFACTURER'S WARRANTY AGAINST DEFECTS, MATERIAL AND WORKMANSHIP SET OUT BELOW:

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NOTE

**The Cummins diesel engine is covered
by a separate warranty as described in
TM 10-3950-672-24.**

SECTION 1**GENERAL****1-1. INTRODUCTION.**

This handbook provides information for the operator of the AP308T Grove 10K Warehouse Crane, M469.

The lift capacities are listed on the Load Chart in the cab.

The crane incorporates an all welded steel frame using a single reduction drive axle to provide front wheel drive. Rear axle steering is accomplished utilizing a hydraulic steer cylinder attached to the Grove fabricated rear axle. The engine is mounted at the rear of the crane and provides motive power through a three speed automatic transmission. The outriggers are oblique telescoping on both the front and rear of the crane.

The superstructure is capable of 360 degrees rotation in either direction. The boom is a 14 to 24 ft (4.2 to 7.3 m) two section full power boom and is trapezoidal in design.

NOTE

Throughout this manual, reference is made to left, right, front, and rear when describing locations. These reference locations are to be considered as those viewed from the operator's seat with the superstructure facing forward over the front of the carrier frame.

1-2. LIST OF SPECIFICATIONS.**GENERAL.**

Model AP308T
 Rated Capacity See Load Chart in cab
 Drive 2 wheel front
 Gross Weight See Lifting and Transportation decal in cab

DIMENSIONS.**NOTE**

Dimensions listed are with all components fully retracted.

Overall Crane Length 221.0 in. (561.3 cm)
 Overall Crane Width 84.0 in. (213.3 cm)
 Overall Crane Height 92.90 in (235.9 cm)
 Track Width 72.0 in. (182.8 cm)
 Tailswing..... 42.0 in. (106.6 cm)
 Tail Sweep..... 205.60 in. (522.2 cm)