

# ARMY TM 9-2330-275-14&P AIR FORCE TO 36A4-24-1

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## TECHNICAL MANUAL

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

FOR

DOLLY SET, LIFT, TRANSPORTABLE SHELTER:  
M689 (NSN 2330-00-226-6076)  
EIC: CPC

DOLLY SET, LIFT, TRANSPORTABLE SHELTER:  
M832 (NSN 2330-00-221 -4939)  
EIC: CPB

DOLLY SET, LIFT, TRANSPORTABLE SHELTER:  
M840 (NSN 2330-00-937-1175)  
EIC: CMF

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This manual supersedes TM 9-2330-275-14&P, dated 10 June 1980

Approved for public release; distribution is unlimited.

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HEADQUARTERS DEPARTMENT OF THE ARMY AND THE AIR FORCE

## MARCH 1994

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Current as of 25 March 1994

**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 Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 48397-5000. A reply will be furnished to you.

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# CHAPTER 1 INTRODUCTION

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### 1-1. SCOPE.

a. Type of Manual. Operator's, Organizational, Direct Support, and General Support Maintenance Manual (Including Repair Parts and Special Tools List).

b. Equipment Name and Model Numbers. Dolly Set, Lift, Transportable Shelter, M689, M832, and M840.

c. Purpose of Equipment. Used to carry a shelter with maximum weight of 9500-10,500 lb (431 3-4767 kg).

### 1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, *The Army Maintenance Management System (TAMMS)*.

### 1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

For destruction of Army materiel to prevent enemy use, refer to TM 750-244-6.

### 1-4. PREPARATION FOR STORAGE OR SHIPMENT.

For information on preparing the dolly set for storage or shipment, refer to Chapter 4, Section XV.

### 1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs).

If your dolly set needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF Form 368 (Product Quality Deficiency Report). Mail it to us at: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MP, Warren, MI 48397-5000. We'll send you a reply.

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### 1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

#### a. Characteristics.

- (1) Consists of front and rear dolly.
- (2) Mechanical or hydraulic lifting-leveling jacks (depending on model),
- (3) Air spring suspension with automotive-type shock absorbers.
- (4) Four wheel air-hydraulic brakes.
- (5) Military tires for highway and cross-country travel.
- (6) Taillights, stoplights, and blackout lights (24-volt).
- (7) Manually operated handbrakes.
- (8) Towed by 5-ton cargo truck.

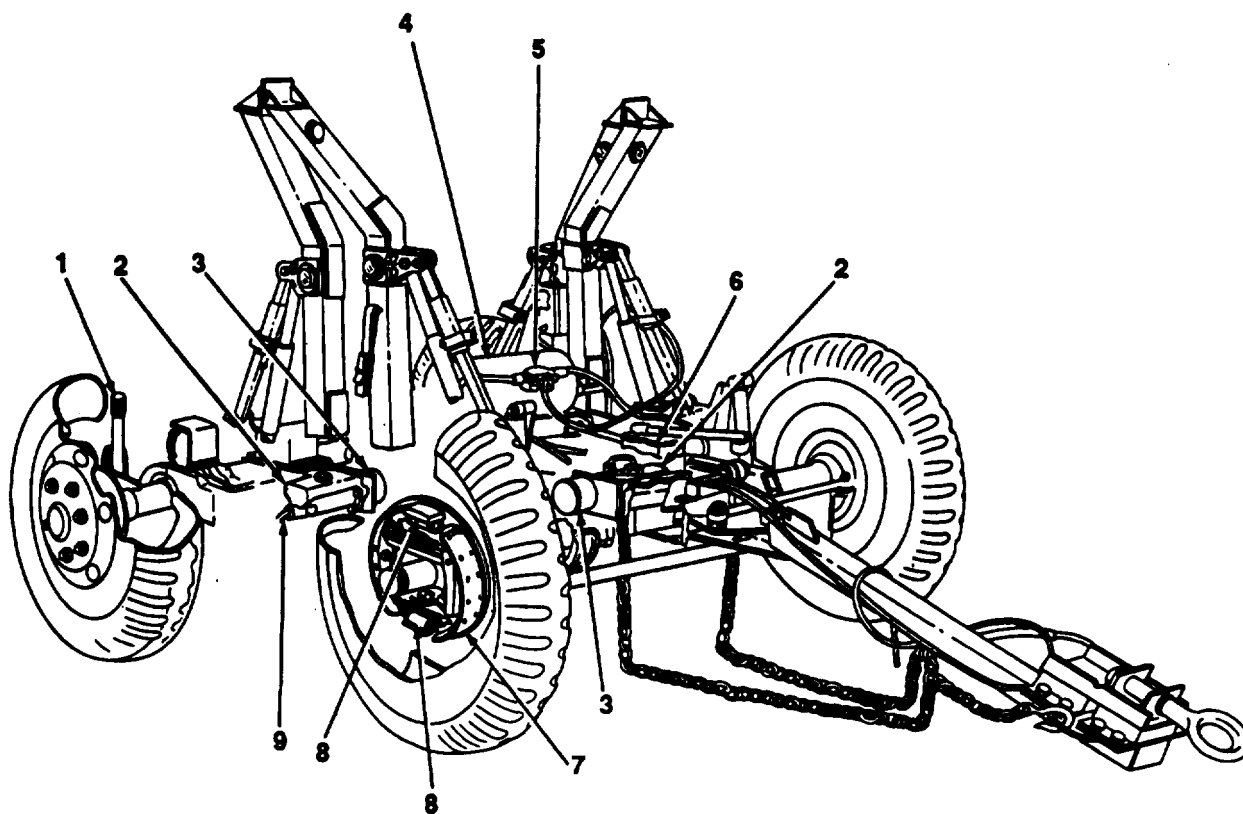
#### b. Capabilities.

- (1) Maximum payload: 9,00010,500 lb (4,086-4,767 kg).
- (2) Maximum speed: Highway, 50 mi/h (80 km/h); Cross-country, 25 mi/h (40 km/h).

#### c. Features.

- (1) Ground clearance: 15-17 in. (38-43 cm).
- (2) Angle of departure: 90°.

## 1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.



M840

| Key | Component                      | Description                                                                               |
|-----|--------------------------------|-------------------------------------------------------------------------------------------|
| 1   | Handbrake Lever                | Applies mechanical pressure to brakeshoes, preventing movement of dolly set while parked. |
| 2   | Master Cylinders               | Convert mechanical motion of hydraulic piston to hydraulic pressure in brake lines.       |
| 3   | Air Cylinders                  | Apply air pressure to hydraulic piston in master cylinders.                               |
| 4   | Air Reservoir                  | Furnishes compressed air through relay valve to air cylinder when brakes are applied.     |
| 5   | Relay Valve                    | Applies and releases compressed air to air cylinder.                                      |
| 6   | Hydraulic Pump (M832 and M840) | Provides hydraulic pressure to raise shelter.                                             |
| 7   | Brakeshoe                      | Applies pressure to brakedrums, slowing and stopping the dolly set.                       |
| 8   | Wheel Cylinders                | Convert hydraulic pressure to mechanical motion, activating brake shoes.                  |
| 9   | Hydraulic Brake Line           | Provides hydraulic pressure from master cylinder to wheel cylinders.                      |