

TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

FOR
CARRIER, PERSONNEL, FULL TRACKED, ARMORED M113A3
2350-01-219-7577 (EIC AEY)

CARRIER, COMMAND POST, LIGHT TRACKED M577A3
2350-01-369-6085 (EIC AE7)

CARRIER, ANTI-TANK (TOW), FULL TRACKED, ARMORED M901A3
2350-01-369-7253 (EIC AFD)

CARRIER, FIRE SUPPORT PERSONNEL, FULL TRACKED, ARMORED
M981A3
2350-01-369-6079 (EIC AFB)

CARRIER, SMOKE GENERATOR, FULL TRACKED M1059A3
2350-01-369-6083 (EIC AFA)

CARRIER, MORTAR, 120-MM M121, SELF-PROPELLED M1064A3
2350-01-369-6082 (EIC AE8)

CARRIER, STANDARDIZED INTEGRATED COMMAND POST SYSTEM
(SICPS) M1068A3
2350-01-369-6086 (EIC AFC)

CARRIER, MECHANIZED SMOKE OBSCURANT M58
2350-01-418-6654 (EIC 5CG)

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2 January 2001

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 05 SEPTEMBER 2003

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CHAPTER 13

UNIT MAINTENANCE INSTRUCTIONS
FOR WHEELS AND TRACKS

WORK PACKAGE INDEX

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REPLACE ROAD WHEEL.....	0426 00

REPLACE TORSION BAR**0413 00****THIS WORK PACKAGE COVERS:**

Removal (page 0413 00-1).
 Installation (page 0413 00-4).

INITIAL SETUP:Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)
 Carrier on level surface
 Carrier blocked (see your -10)
 Track shroud and covers removed (WP 0438 00)
 Road wheel removed (WP 0426 00)
 Shock absorber removed from second or fifth road wheel (WP 0435 00)
 Power plant removed for first torsion bar, right side only (WP 0156 00)
 Driver's front floor plate removed for first torsion bar, left side only (WP 0453 00)
 Power plant rear access panel removed for second torsion bar, right side only (see your -10)
 Driver's rear floor plate removed for second torsion bar, left side only (WP 0453 00)
 Floor plates removed for third and fourth torsion bar (WP 0539 00), (WP 0540 00), (WP 0541 00), (WP 0542 00), (WP 0543 00), (WP 0544 00), or (WP 0545 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Adapter (WP 0926 00, Item 6)
 Road Wheel Lifter (WP 0926 00, Item 28)
 Socket Head Cap Screw (WP 0926 00, Item 45)
 Puller (WP 0926 00, Item 38)
 Socket Wrench Attachment (WP 0926 00, Item 53)
 Torque Wrench (WP 0926 00, Item 85)

Materials/Parts

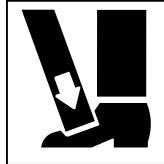
Grease (WP 0928 00, Item 12)

Personnel Required

Unit Mechanic
 Helper (H)

References

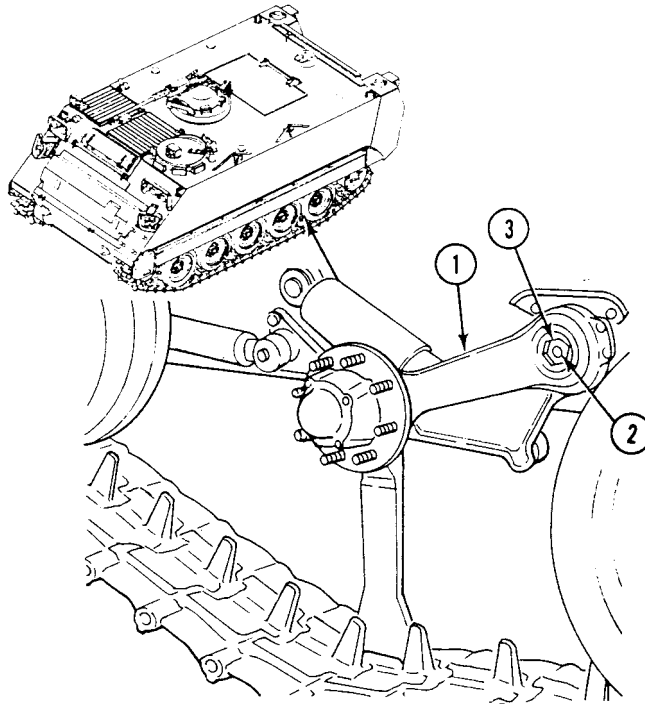
See your -10

REMOVAL**WARNING**

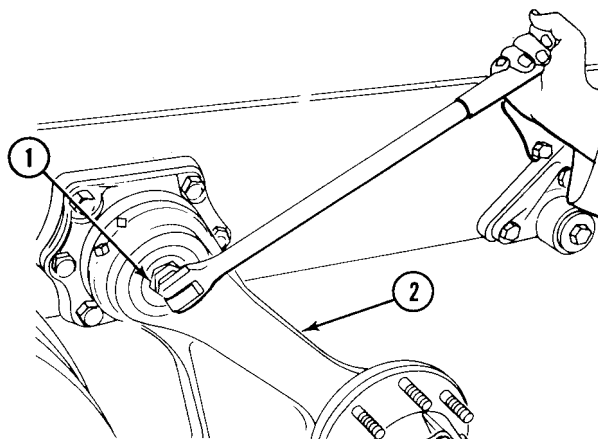
If road wheel lifter slips while lowering road arm, it could injure you. Stand clear before you lower road arm.

REPLACE TORSION BAR — Continued**0413 00**

1. With road wheel removed and road arm raised on lifter, start engine (see your -10). Place range selector in 1. Slowly drive carrier forward off lifter so that road wheel support arm (1) hangs freely.
2. Remove screw (2) from plug (3).



3. Remove plug (1) from road wheel support arm (2). Use socket wrench attachment.

**NOTE**

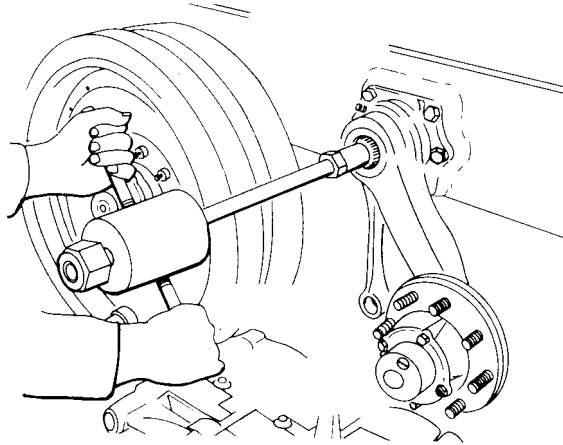
Special socket head cap screw is used with adapter.

4. Thread special screw through adapter.

NOTE

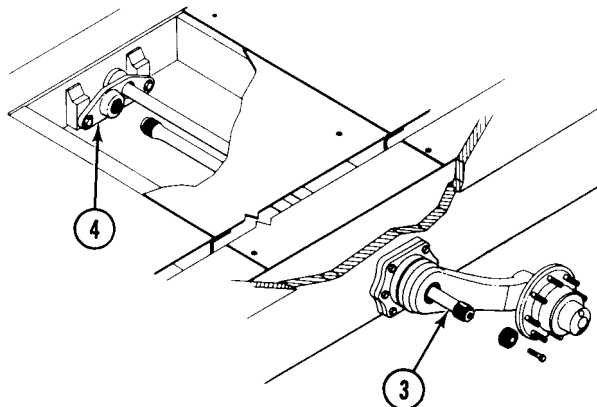
Screw is installed with head inside adapter.

5. Thread adapter on puller, then thread adapter with screw into torsion bar.

**CAUTION**

When removing or installing torsion bars, the index or missing tooth on the anchor end of torsion bar must align with index on spline in road wheel arm, to allow bar to pass through.

6. Pull torsion bar (3) from torsion bar anchor (4). Use slide hammer on puller.
7. Remove puller and adapter from torsion bar.
8. If torsion bar (3) is broken, remove as follows:
 - a. Remove road wheel end of torsion bar in the same way as unbroken torsion bar.
 - b. Pull or drive end of broken bar from its splined seat in torsion bar anchor (4).



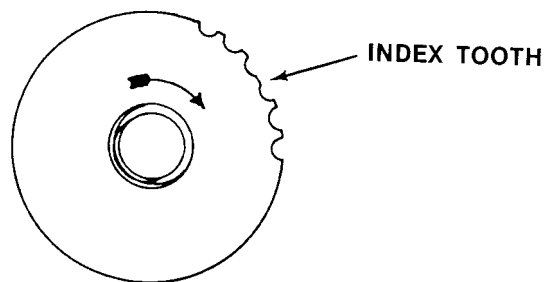
INSTALLATION

CAUTION

When removing or installing torsion bars, the index or missing tooth on the anchor end of torsion bar must align with index on spline in road wheel arm, to allow bar to pass through.

CAUTION

Align index or missing tooth on end of torsion bar with index on road wheel arm and torsion bar anchor before installing.

**CAUTION**

Handle torsion bar with care. Do not tear or cut wrapping.

NOTE

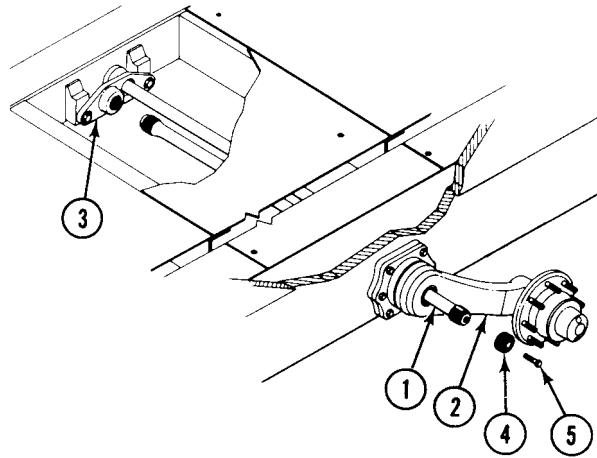
Left and right torsion bars are not interchangeable. To determine correct bar, place arrow on end of torsion bar outboard, with arrow at top. Arrow must point toward front of carrier.

1. Thread puller with adapter and screw into torsion bar.
2. Install torsion bar (1) through road wheel arm (2) and anchor (3). (H) Guide torsion bar into anchor to ensure proper alignment. Use slide hammer on puller to seat torsion bar.
3. Remove puller and adapter from torsion bar.
4. Put a light coat of grease on threads of plug (4). Install plug in road wheel arm (2).
5. TIGHTEN PLUG (4) TO 50-75 LB-FT (68-102 N·m) TORQUE. Use socket wrench attachment.

REPLACE TORSION BAR — Continued

0413 00

6. Install screw (5) in plug (4).

**NOTE**

You may need to jack carrier to raise road arm, before positioning road wheel lifter.

7. Position road wheel lifter (WP 0426 00).

FOLLOW-THROUGH STEPS

1. Install floor plates for third and fourth torsion bars (WP 0539 00), (WP 0540 00), (WP 0541 00), (WP 0542 00), (WP 0543 00), (WP 0544 00), or (WP 0545 00).
2. Install driver's rear floor plate for second torsion bar, left side only (WP 0453 00).
3. Install power plant rear access panel for second torsion bar, right side only (see your -10).
4. Install driver's front floor plate for first torsion bar, left side only (WP 0453 00).
5. Install power plant for first torsion bar, right side only (WP 0156 00).
6. If removed, install shock absorber (WP 0435 00).
7. Install road wheel (WP 0426 00).
8. Install track shroud and covers (WP 0438 00).
9. Unblock carrier (see your -10).
10. Road test carrier to check that torsion bar is installed right (WP 0155 00).

END OF TASK

REPLACE TORSION BAR ANCHOR

0414 00

THIS WORK PACKAGE COVERS:

Removal (page 0414 00-1).
Installation (page 0414 00-3).

INITIAL SETUP:

<u>Maintenance Level</u>	<u>References</u>
Unit	See your -10
<u>Tools and Special Tools</u>	<u>Equipment Condition</u>
General Mechanic’s Tool Kit (WP 0926 00, Item 65)	Carrier on level surface
Socket Wrench Set (Required for M1064A3 5th anchor only) (WP 0926 00, Item 73)	Engine stopped (see your -10)
Torque Wrench (Required for M1064A3 5th anchor only) (WP 0926 00, Item 86)	Carrier blocked (see your -10)
<u>Materials/Parts</u>	Track shroud and covers removed (WP 0438 00)
Cotter pin (2)	Road wheel removed (WP 0426 00)
Preformed packing (Required for 3rd, 4th, & 5th anchors only)	Torsion bar removed (WP 0413 00)
<u>Personnel Required</u>	Power plant removed (Required for 2nd right anchor only) (WP 0156 00)
Unit Mechanic	

REMOVAL

NOTE

The 5th anchor on the M1064A3 carrier is secured with screws instead of pins because it is located under the welded floor plates next to the mortar turntable.

NOTE

On all carriers, preformed packings are located behind the 3rd, 4th, and 5th anchors only.

REPLACE TORSION BAR ANCHOR — Continued

0414 00

1. Remove two cotter pins (1), pins (2), anchor (3), and preformed packing (4) (3rd, 4th, and 5th anchors only) from lugs on hull floor. Discard cotter pins and preformed packing.

NOTE**Do Step 2 for M1064A3 5th anchor only.**

2. Raise mortar turntable tread plate and remove two screws (5), anchor (3), and preformed packing (4) from bosses under floorplate next to turntable. Discard preformed packing.

