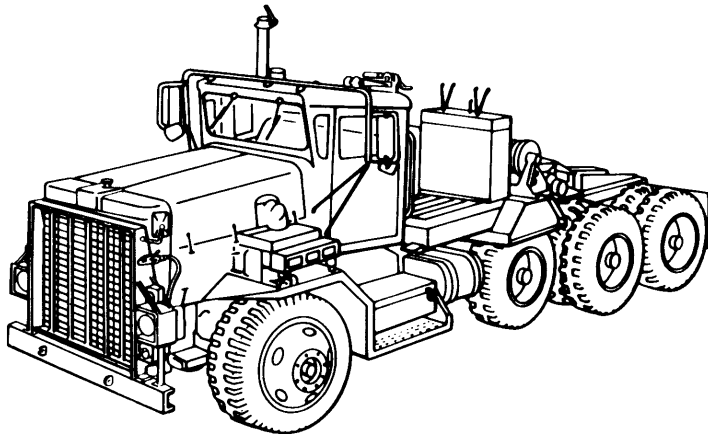


TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE

VOLUME 3 OF 3



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**TRUCK, TRACTOR, COMMERCIAL
HEAVY EQUIPMENT TRANSPORTER
(C-HET) 85,000 GVWR, 8 x 6, M911
(NSN 2320-01-025-3733)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

JUNE 1986

TECHNICAL MANUAL

NO. 9-2320-270-20-3

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC 10 JUNE 1986

ORGANIZATIONAL MAINTENANCE MANUAL

TRUCK, TRACTOR, COMMERCIAL
HEAVY EQUIPMENT TRANSPORTER (C-HET)
85,000 GVWR, 8 X 6, M911
(NSN 2320-01-025-3733)

CURRENT AS OF NOVEMBER 1985

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 Tank-Automotive Command, ATTN: AMSTA-MB, Warren, Mi 48397-5000. A reply will be sent to you.

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*This manual together with TM 9-2320-270-20-1 and TM 9-2320-270-20-2 supersedes TM 9-2320-270-20, dated 15 November 1977.

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STEERING WHEEL

This task covers:

- a. Removal (page 4-938)
 - b. Installation (page 4-938)
-

INITIAL SETUP

Tools

Bar, pry
 Handle, ratchet, 1/2-inch drive
 Puller, steering wheel
 Screwdriver, flat-tip, 3/16-inch
 Socket, 1 1/4-inch, 1/2-inch drive

Equipment Condition

Battery ground cable disconnected
 (page 4-444).
 Left side of hood open and left hood side
 panel removed (TM 9-2320-270-10).

Personnel Required

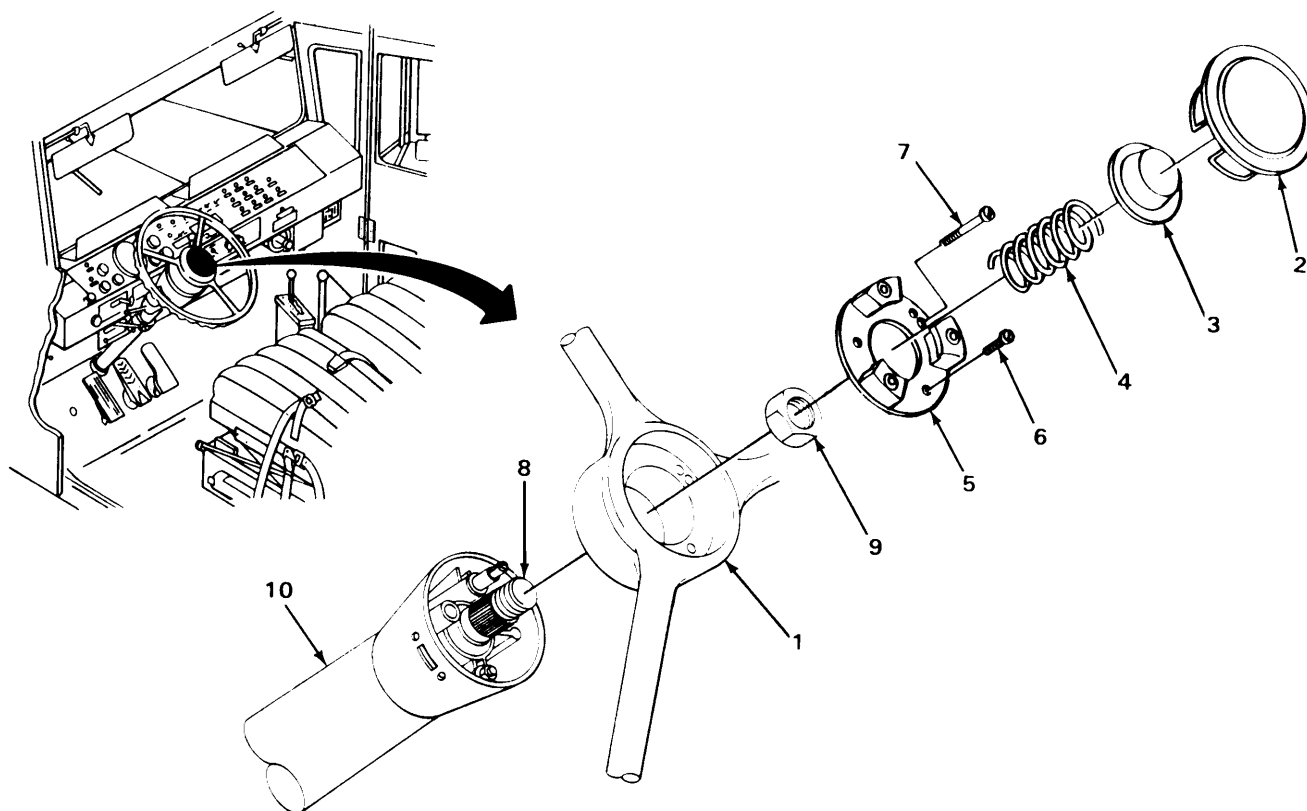
Two

STEERING WHEEL - CONTINUED

LOCATION	ITEM	ACTION REMARKS
REMOVAL		
1.	Truck	Park on level surface with front wheels positioned straight ahead (TM 9-2320-270-10).
2. Steering wheel (1)	Horn button (2), contact ring (3), and spring (4)	a. Push down and turn counterclockwise. b. Take out.
3. Base plate (5) to steering wheel (1)	Two screws (6) and screw (7)	Using screwdriver, unscrew and take out. Note location of longer screw.
4. Steering wheel (1)	Base plate (5)	Take out.
5. Steering wheel (1) to steering column shaft (8)	Nut (9)	Using 1 1/4-inch socket and handle, unscrew and take off.
6. Steering column shaft (8)	Steering wheel (1)	Using puller, pull off.
INSTALLATION		
7. Steering column (10)	Steering column shaft (8)	Have assistant push up until it is all the way up.
8. Steering column shaft (8)	Steering wheel (1)	Place in position.
9. Steering wheel (1) to steering column shaft (8)	Nut (9)	Screw on and tighten using 1 1/4-inch socket and handle.

STEERING WHEEL - CONTINUED

	LOCATION	ITEM	ACTION REMARKS
10.	Steering wheel (1)	Base plate (5)	Put in place.
11.		Screw (7)	a. Note location from removal. b. Screw in and tighten using screwdriver.
12.	Base plate (5) to steering wheel (1)	Two screws (6)	Screw in and tighten using screwdriver.
13.	Steering wheel (1)	Spring (4), contact ring (3), and horn button (2)	a. Put in place. b. Push down and turn clockwise.

**NOTE****FOLLOW-ON MAINTENANCE:**

1. Install left hood side panel and close left side of hood (TM 9-2720-270-10).
2. Connect battery ground cable (page 4-444).

TASK ENDS HERE

STEERING COLUMN BRACKET

This task covers:

- a. Removal (page 4-940)
- b. Installation (page 4-942)

INITIAL SETUP

Tools

- Extension, 12-inch, 3/8-inch drive
- Handle, ratchet, 3/8-inch drive
- Key, socket head screw, 5/16-inch
- Knife, pocket
- Socket, 1/2-inch, 3/8-inch drive
- Wrench, box, 1/2-inch
- Wrench, box, 9/16-inch

Materials/Parts

- Bushing, rubber
- Lockwasher, steering column bracket cap to steering column bracket brace (two required)

Materials/Parts – Continued

- Lockwasher, steering column bracket brace to dash brace (two required)
- Lockwasher, steering column mounting plate to floor (two required)

Personnel Required

Two

Equipment Condition

- Left hood side panel removed (TM 9-2320-270-10).

		ACTION
LOCATION		REMARKS
REMOVAL		
1. Steering column (1)	Rubber grommet (2)	Pull up.
2. Floor (3)	Floor mat (4)	Pull back.
3. Steering column mounting plate (5) to floor (3)	Two capscrews (6), nuts (7), and lockwasher (8)	a. With help from assistant and using 1/2-inch box wrench, 1/2-inch socket, handle, and extension, unscrew and take out. b. Get rid of lockwasher (8).
4. Steering column bracket cap (9) to steering column bracket brace (10)	Two socket head screws (11), nuts (12), lockwashers (13), and bracket cap (9)	a. Using 5/16-inch key and 9/16-inch box wrench, unscrew and take off. b. Get rid of lockwashers (13). c. Take out screws (11).
5.	Steering column (1)	Lower carefully and rest on front seat.

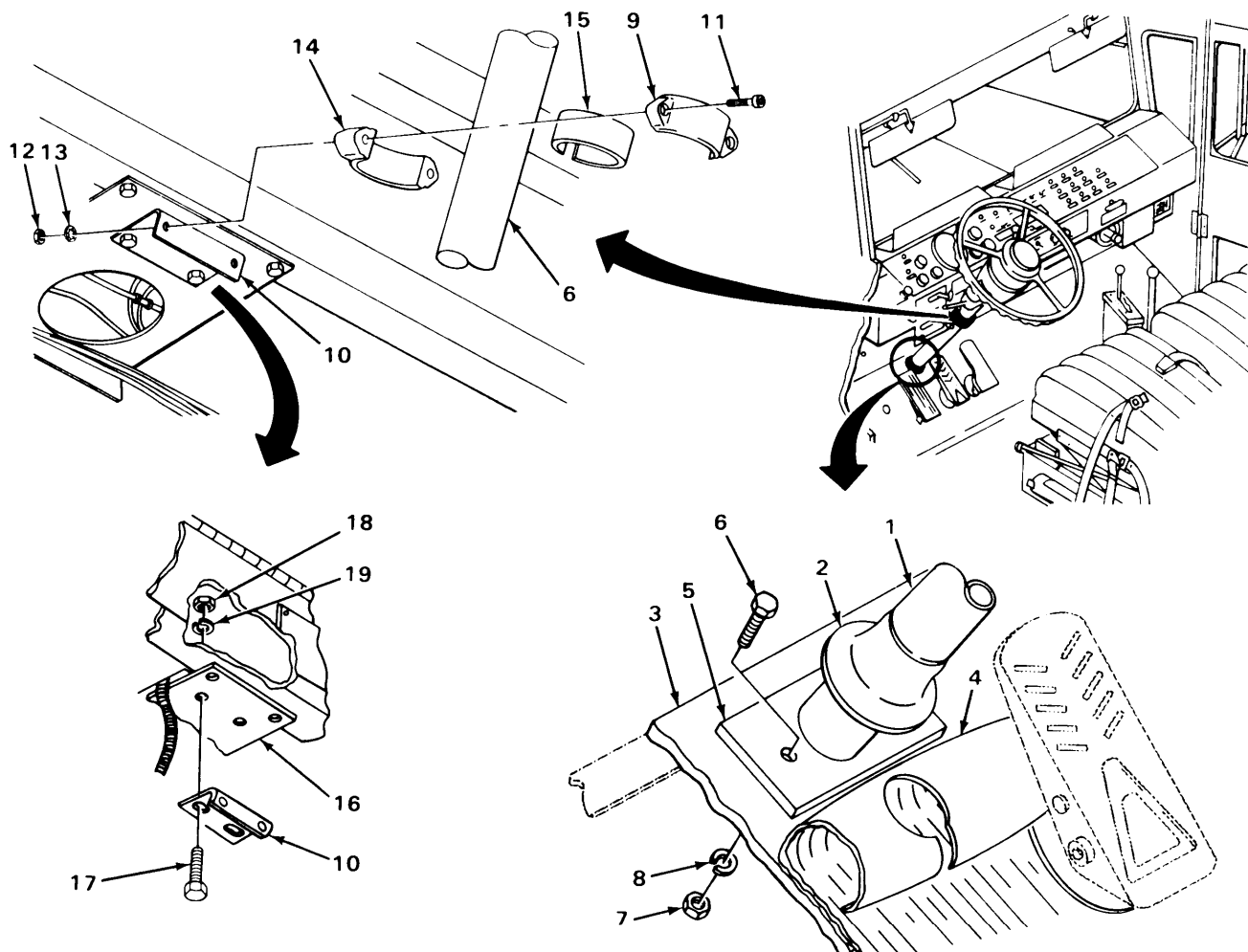
STEERING COLUMN BRACKET - CONTINUED

LOCATION	ITEM	ACTION	REMARKS
6. Steering column (1)	Bracket base (14)	Take off.	
7.	Rubber bushing (15)	a. Using knife, cut off. b. Get rid of.	

NOTE

If not removing steering column bracket brace, go to step 13.

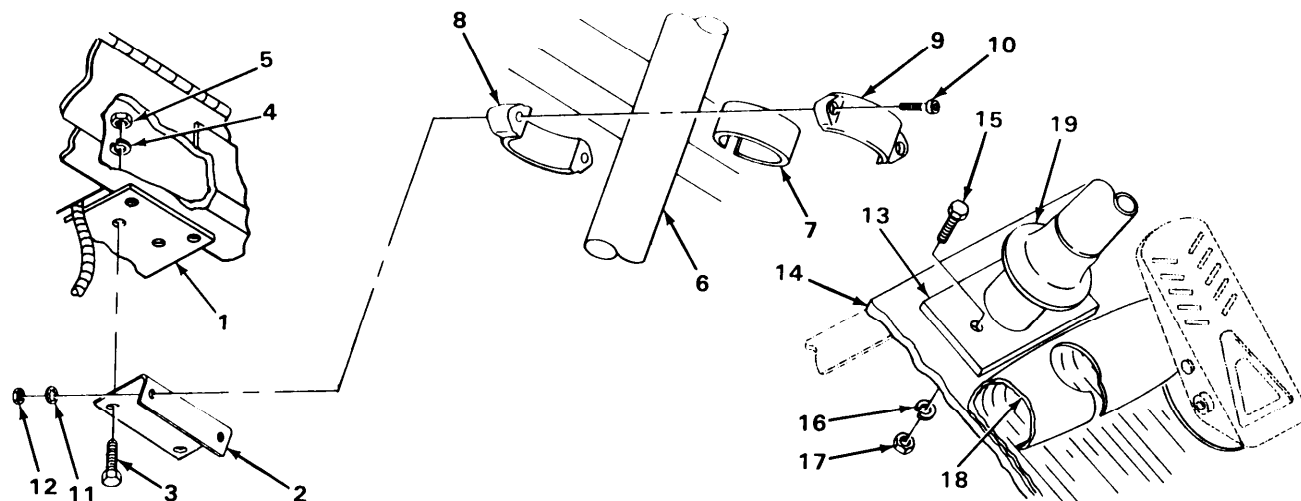
- | | | |
|--|---|---|
| 8. | Instrument panel | Open (page 4-244). |
| 9. Steering column bracket brace (10) to dash brace (16) | Two capscrews (17), nuts (18), lockwashers (19), and bracket brace (10) | a. Using 1/2-inch box wrench, 1/2-inch socket, extension, and handle, unscrew and take off with bracket brace.
b. Get rid of lockwashers (19). |



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STEERING COLUMN BRACKET - CONTINUED

LOCATION		ITEM	ACTION REMARKS
INSTALLATION			
NOTE			
If not installing steering column bracket brace, go to step 13.			
10.	Dash brace (1)	Bracket brace (2)	Put in place.
11.	Bracket brace (2) to dash brace (1)	Two capscrews (3), new lockwashers (4), and nuts (5)	Screw in and tighten using 1/2-inch box wrench, 1/2-inch socket, extension, and handle.
12.		Instrument panel	Close (page 4-244).
13.	Steering column (6)	New rubber bushing (7)	a. Using knife, cut. b. Put in place.
14.		Bracket base (8)	Put in.
15.		Steering column (6)	Have assistant raise into place and hold.
16.		Bracket cap (9) and bracket base (8)	Put in place.
17.	Bracket cap (9) and bracket brace (8) to dash brace (1)	Two screws (10), new lockwashers (11), and nuts (12)	Screw in but do not tighten using 5/16- inch key and 9/16-inch box wrench.
18.	Steering column mounting plate (13) to floor (14)	Two capscrews (15), new lockwashers (16), and nuts (17)	With help from assistant, screw on and tighten using 1/2-inch box wrench, 1/2- inch socket, handle, and extension.
19.	Bracket cap (9) to bracket brace (8)	Two screws (10) and nuts (12)	Using 5/16-inch key and 9/16-inch box wrench, tighten.
20.	Floor (14)	Floor mat (18)	Put in place.
21.	Steering column (6)	Grommet (19)	Push down.

STEERING COLUMN BRACKET - CONTINUED**NOTE**

FOLLOW-ON MAINTENANCE: Install left side hood panel (TM 9-2320-270-10).

TASK ENDS HERE

DASH BRACE

This task covers:

- | | |
|-----------------------------|------------------------------|
| a. Removal (page 4-944) | c. Assembly (page 4-948) |
| b. Disassembly (page 4-948) | d. Installation (page 4-948) |

INITIAL SETUP**Tools**

Hammer, plastic
 Handle, ratchet, 3/8-inch drive
 Pliers, diagonal-cutting
 Pliers, long-nose, round
 Screwdriver, cross-tip, number 2
 Screwdriver, flat-tip, 3/8-inch
 Socket, 3/8-inch, 3/8-inch drive
 Socket, 7/16-inch, 3/8-inch drive
 Socket, 1/2-inch, 3/8-inch drive
 Wrench, box, 1/2-inch
 Wrench, open-end, 7/16-inch
 Wrench, open-end, 1/2-inch
 Wrench, open-end, 9/16-inch
 Wrench, open-end, 5/8-inch

Materials/Parts

Lockwasher, air manifold to dash
 brace (two required)
 Lockwasher, turn signal flasher
 holder to dash brace
 Lockwasher, steering column bracket
 brace to dash brace (two required)
 Lockwasher, dash brace to firewall
 (two required)
 Lockwasher, dash brace to dashboard
 (two required)
 Lockwasher, steering column mounting
 plate to floor (two required)
 Soap, liquid (item 14, appendix C)
 Wrap, tie (item 24, appendix C)

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DASH BRACE - CONTINUED

INITIAL SETUP – CONTINUED

Personnel Required

Two

Equipment Condition

Battery ground cable disconnected
(page 4-444).

Equipment Condition – Continued

Air system drained (TM 9-2320-270-10).
Left hood side panel removed and left side
of hood open (TM 9-2320-270-10).

LOCATION	ITEM	ACTION REMARKS
----------	------	-------------------

REMOVAL

W A R N I N G

Make sure battery ground cable is disconnected to prevent possible injury and damage to the electrical system.

- | | | |
|-----------------------------------|---|--|
| 1. Dash brace (1) | Connector (2) and
horn button wire (3) | Unplug. |
| 2. Air hoses
(4), (5), and (6) | Tie wrap (7) | a. Using cutting pliers, cut and take off.
b. Get rid of. |

W A R N I N G

Make sure all pressure is drained from air system before disconnecting air lines. Parts under pressure can, when removed, fly off with great force causing injury to personnel.

- | | | |
|---|--|---|
| 3. Air line 27 (8) to
trailer brake
handle assembly (9) | Nut (10) | Using 5/8-inch and 9/16-inch open-end
wrenches, unscrew. |
| 4. Air line 663 (11)
to trailer brake
handle assembly (9) | Nut (12) | Using 5/8-inch and 9/16-inch open-end
wrenches, unscrew. |
| 5. Trailer brake
handle assembly (9) | Air line 27 (8) and
air line 663 (11) | Pull out and push up through hole in
dash brace. |
| 6. Adapters (13) or
air lines 27 (8)
and 663 (11) | Two inserts (14) | Using long-nose pliers, take out. |

DASH BRACE - CONTINUED

LOCATION	ITEM	ACTION	REMARKS
----------	------	--------	---------

- | | | | |
|------------------------------------|--------------------------|--------------------|--|
| 7. | Instrument panel | Open (page 4-244). | |
| 8. Turn signal flasher holder (15) | Turn signal flasher (16) | Pull out. | |

