

*This publication supersedes TM 9-2320-260-34-1, TM 9-2320-260-34-2-1, TM 9-2320-260-34-2-2, TM 9-2320-260-34-2-3, TM 9-2320-260-34-2-4, and TM 9-2320-260-34-2-5, 31 December 1980, for M809 series vehicles.

**TECHNICAL MANUAL
VOLUME 2 OF 2
DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE
FOR
5-TON, 6X6, M809 SERIES TRUCKS
(DIESEL)**

TRUCK, CARGO: 5-TON, 6X6,
M813 (2320-00-050-8902) (EIC:BSB);
(2320-00-050-8890) (EIC:BSA)
M813A1 (2320-00-050-8913) (EIC:BSD);
(2320-00-050-8905) (EIC:BSC)
M814 (2320-00-050-8988) (EIC:BSK);
(2320-00-050-8987) (EIC

* ARMY TM 9-2320 -260-34-2
AIR FORCE TO 36A12-1C-1122-2

TECHNICAL MANUAL
NO. 9-2320-260-34-2

DEPARTMENTS OF THE ARMY
AND THE AIR FORCE

TECHNICAL ORDER
NO. 36A12-1C-1122-2

WASHINGTON, D.C.

REPORTING OF ERRORS

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 back of this manual, direct to: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, Michigan 48397-5000. A reply will be furnished to you.

VOLUME 2 OF 2

CHAPTER 12

CHAPTER 12

STEERING SYSTEM MAINTENANCE

Section I. Mechanical and Power Steering System Maintenance (page 12-1)

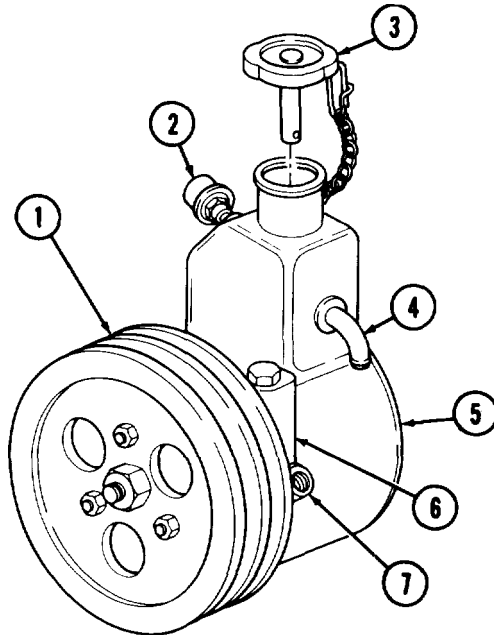
Section II. Tire Maintenance (page 12-18)

Section I. MECHANICAL AND POWER STEERING SYSTEM MAINTENANCE

12-1. MECHANICAL AND POWER STEERING SYSTEM MAINTENANCE INDEX

12-2. DESCRIPTION (Contd)

b. The power steering pump and reservoir are incorporated into a single assembly. The oil reservoir encloses the pump housing and provides a reserve supply of oil to assure complete filling of hydraulic system. Atmospheric pressure in the reservoir is maintained through a breather near filler neck of reservoir. A filter is installed near intake of pump to prevent dirt and other foreign matter from entering hydraulic system. Two V-belts transfer power from the engine accessory drive to a double pulley which drives the power steering pump.



12-5. POWER STEERING GEAR REPLACEMENT

THIS TASK COVERS:

a. Removal

b. Installation

INITIAL SETUP

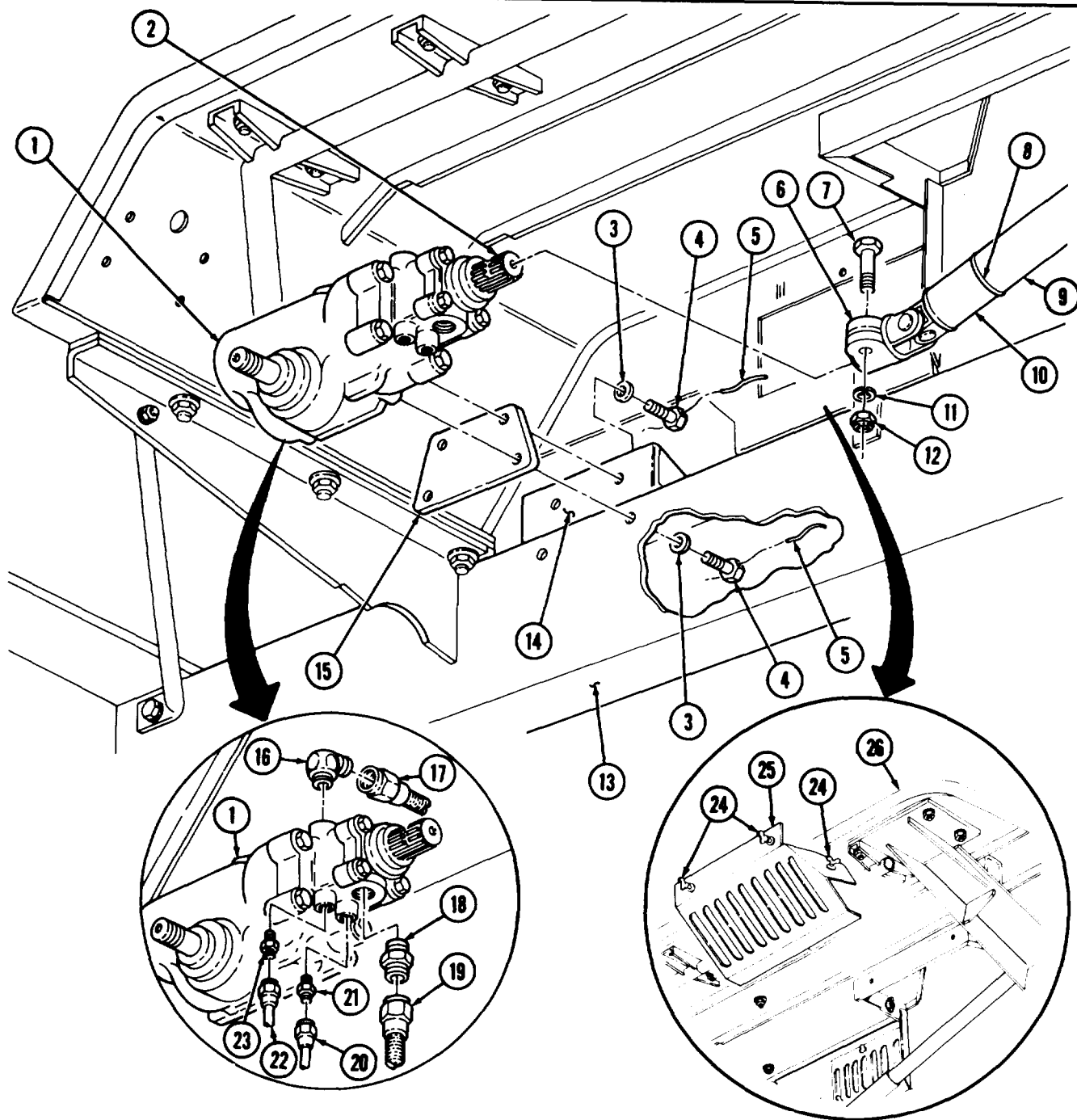
APPLICABLE MODELS

12-5. POWER STEERING GEAR REPLACEMENT (Contd)

2. Remove nut (12), lockwasher (11), and screw (7) from universal joint (6). Discard lockwasher (11).
3. Remove universal joint (6) from shaft (2) by pushing lower section (10) into upper section (9) of lower steering column (8).
4. Remove safety wire (5) from four screws (4). Discard safety wire (5).

CAUTION

12-5. POWER STEERING GEAR REPLACEMENT (Contd)



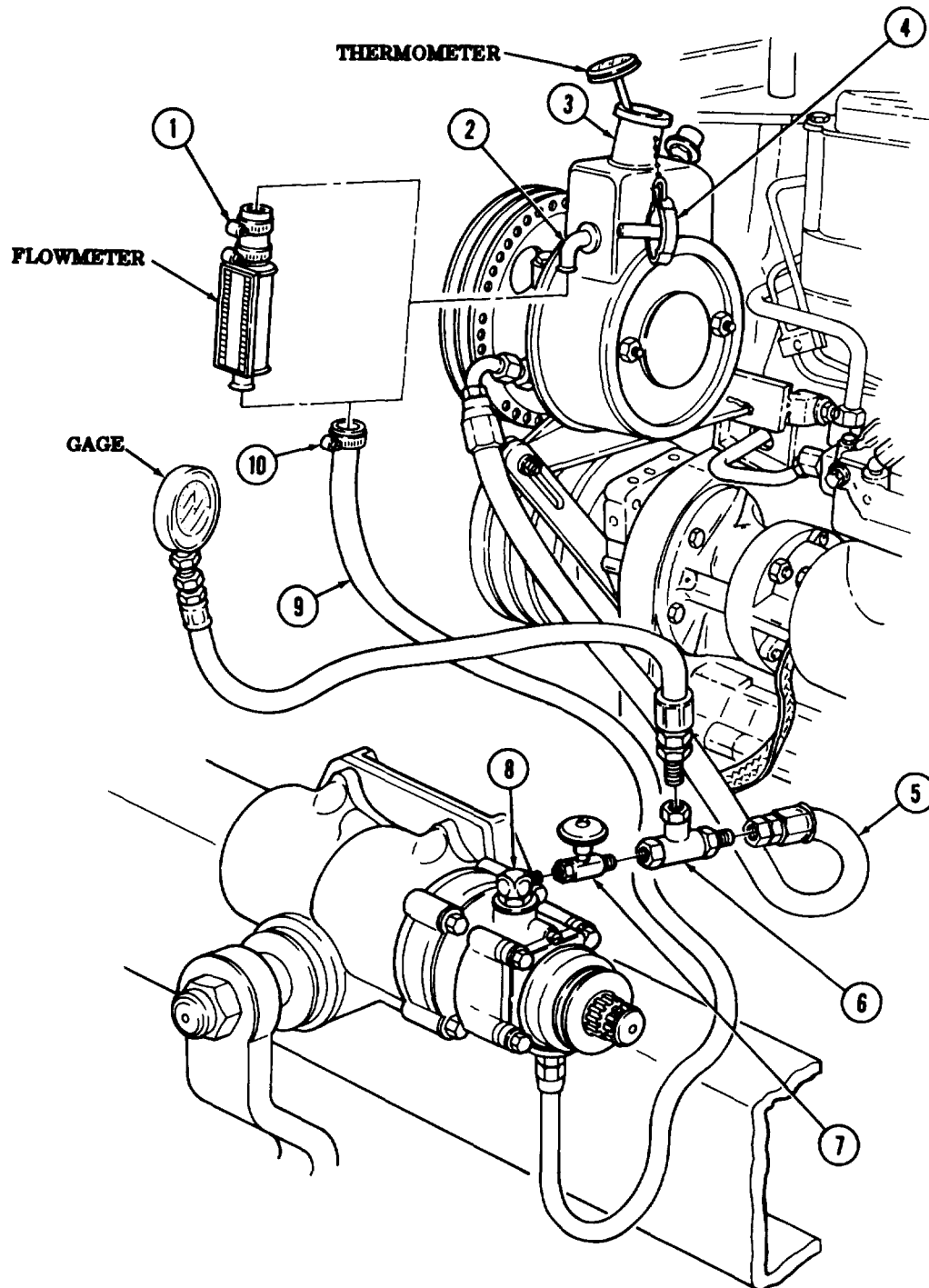
12-6. POWER STEERING TEST AND ADJUSTMENT

THIS TASK COVERS:

- | | |
|--|---|
| a. Steering Pump Test Equipment Installation | e. Poppet Adjustment |
| b. Steering Pump Pressure Test | f. Sector Shaft Adjustment |
| c. Steering Pump Flow Test | g. Steering Pump Test Equipment Removal |
| d. Steering Gear Internal Leakage Test | |

12-6. POWER STEERING TEST AND ADJUSTMENT (Contd)

5. Loosen clamp (10) and remove return hose (9) from return tube (2).
6. Install flowmeter on return tube (2) and tighten clamp (1).
7. Install return hose (9) on flowmeter and tighten clamp (10).
8. Remove filler cap (4) and place thermometer in filler neck (3).



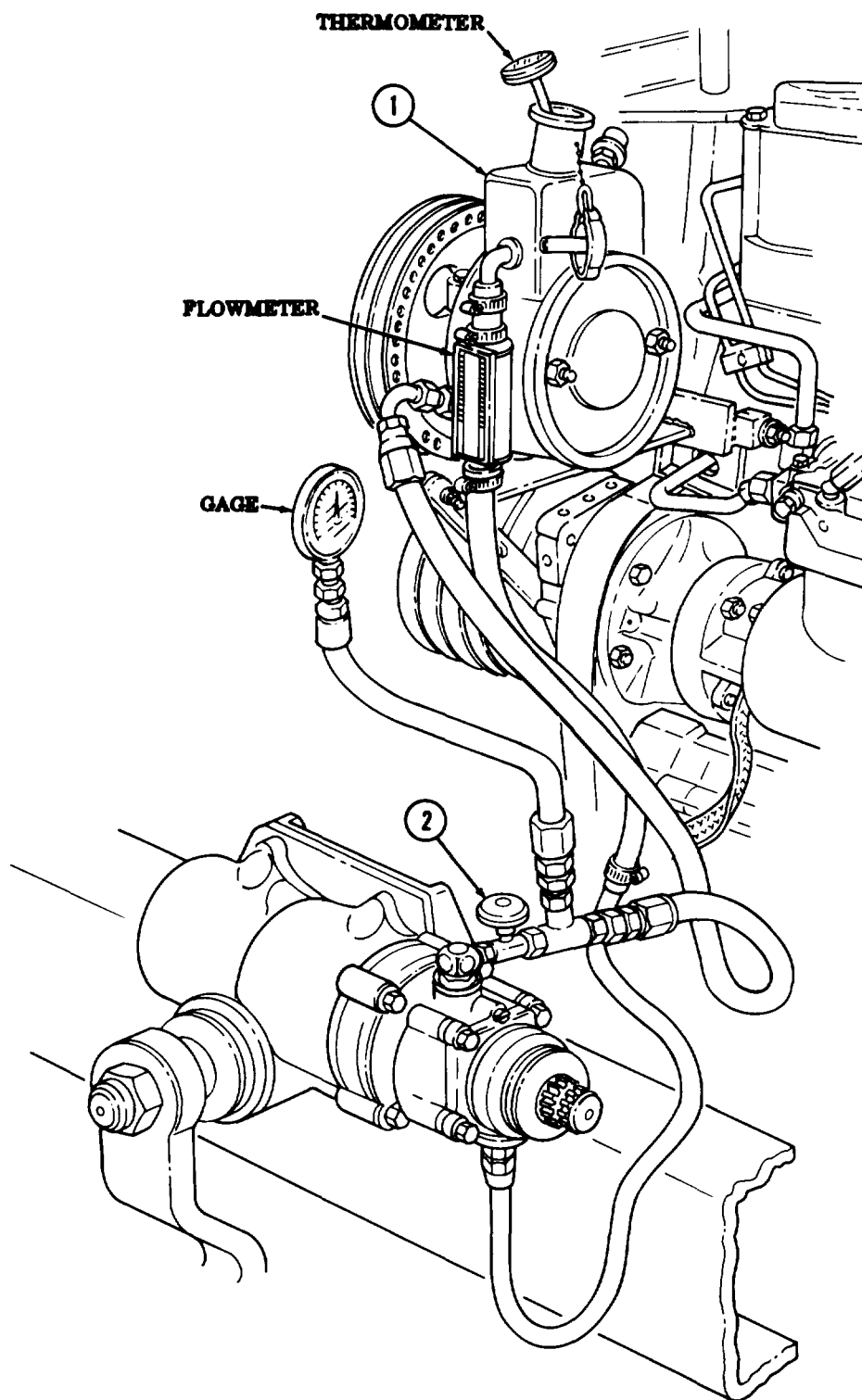
12-6. POWER STEERING TEST AND ADJUSTMENT (Contd)

b. Steering Pump Pressure Test

1. Start engine (TM 9-2320-260-10) and warm engine to operating temperature. Let engine run at idle until end of test.

CAUTION

Power steering oil temperature cannot exceed 20

12-6. POWER STEERING TEST AND ADJUSTMENT (Contd)

12-6. POWER STEERING TEST AND ADJUSTMENT (Contd)

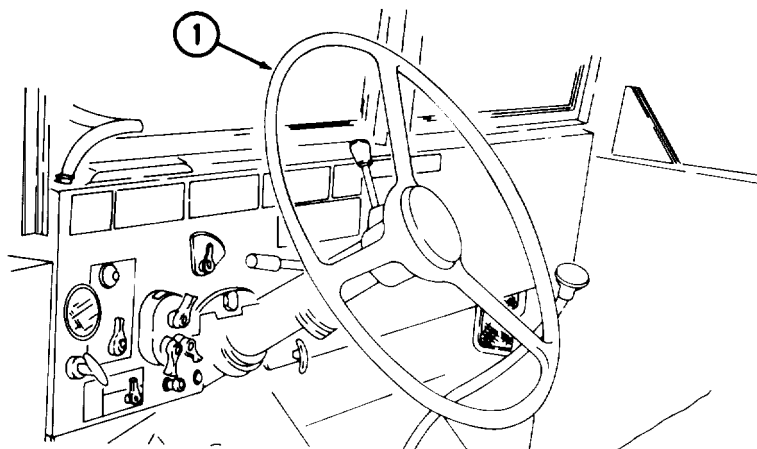
d. Steering Gear Internal Leakage Test

1. Start engine (TM 9-2320-260-10) and warm to operating temperature. Let engine idle to end of test.

CAUTION

Power steering oil temperature cannot exceed 200°F (93°C).

12-6. POWER STEERING TEST AND ADJUSTMENT (Contd)



12-6. POWER STEERING TEST AND ADJUSTMENT (Contd)

e. Poppet Adjustment

1. Start engine (TM 9-2320-260-10) and warm to operating temperature. Let engine idle until end of test.

CAUTION

Do not hold steering wheel in full turn position for more than 10 seconds. Pump damage may result.