

# BODY BUILDER INSTRUCTIONS

Mack Trucks



Transmission  
MD  
Section 4

## Transmission

This information provides specifications for Transmissions on MACK vehicles.

**Note:** We have attempted to cover as much information as possible. However, this information does not cover all the unique variations that a vehicle chassis may present. Note that illustrations are typical but may not reflect all the variations of assembly.

All data provided is based on information that was current at time of release. However, **this information is subject to change without notice.**

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# Transmission

## Lubrication Capacity

| Transmission                          | Oil Type | Sump Type     |                             | Capacity Including Cooler |
|---------------------------------------|----------|---------------|-----------------------------|---------------------------|
| Allison 2500 HS /<br>Allison 2500 RDS | TES 295  | Standard Sump | Initial Refill <sup>1</sup> | 14 liters (14.8 quarts)   |
|                                       |          |               | Refill <sup>1</sup>         | 10 liters (10.6 quarts)   |

<sup>1</sup> Approximate quantities, do not include external lines, cooler, and hose.

**Note:** Approximate fluid loss for main filter (Spin- On) = 0.47 liters (1 pint).

## Transmission Cautions



### CAUTION

The drive shaft must be removed before towing the vehicle. Failure to remove the drive shaft may result in damage to the transmission.

**Note:** The final stage manufacturer has the responsibility to certify that the completed vehicle conforms to all applicable motor vehicle safety standards, as referenced in the Incomplete Vehicle Document. The following installation precautions must be followed to the extent that they apply to the intended design of the incomplete vehicle.

**Note: For additional Dangers, Warnings and Cautions refer to the “General Safety Practices, Transmission” bulletin. Failure to adhere to all safety practices can lead to the voiding of all applicable component warranties, component damage, personal injury or death.**

- 1 Adequate tool clearance and suitable access openings for transmission adjustments must be provided. Transmission removal provisions must also be considered.
- 2 Transmission cooler lines must not be kinked, bent, or restricted. All cooler lines must be properly retained with adequate clips.
- 3 Before using transmission bolts, e.g., rear cover bolts or mounting bolts, contact your local MACK dealer for specific bolt length requirements, torque values and other constraints.
- 4 Transmission service identification tags must not be removed or destroyed. If the transmission is reworked or replaced, tag should be attached to the new transmission.
- 5 When painting the transmission, careful consideration should be given to keeping paint away from the breather and transmission output seal.
- 6 Transmission filler plugs should not be obstructed. Easy access for checking of lube level or filling is necessary.

## Notes

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# Transmission Literature

Printed copies of Allison transmission literature are no longer available from Allison Transmission. Therefore, MACK Trucks is unable to supply this literature to its dealers.

However, service manuals and other literature for Allison transmissions can now be accessed directly from the official internet site of this supplier.

<http://www.allisontransmission.com>

## Notes

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# Transmission Gear Ratios

|         | Transmission Models                |
|---------|------------------------------------|
| Gear    | Allison 2500 HS / Allison 2500 RDS |
| 1st     | 3.51:1                             |
| 2nd     | 1.90:1                             |
| 3rd     | 1.44:1                             |
| 4th     | 1.00:1                             |
| 5th     | 0.74:1                             |
| 6th     | 0.64:1                             |
| Reverse | -5.09:1                            |

## Notes

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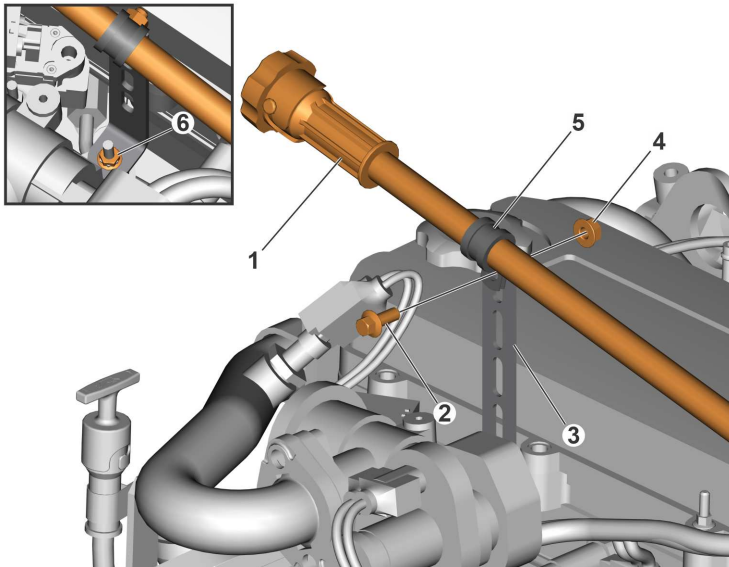
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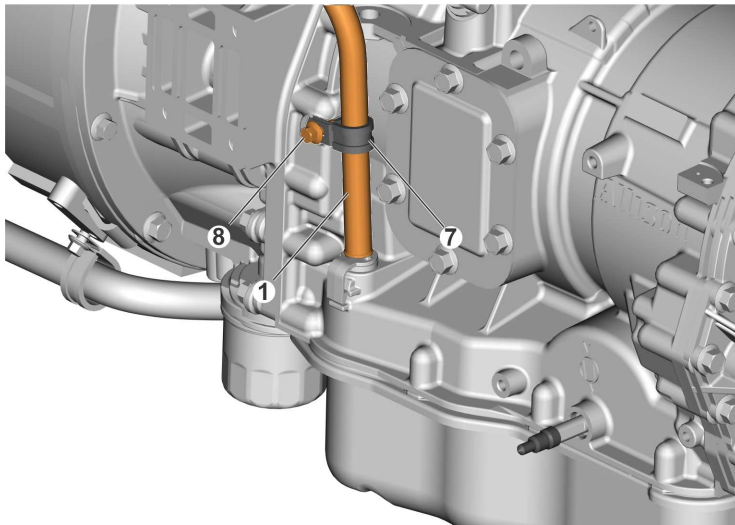
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# Allison Transmission Dipstick



T4162811



T4162812

| Item                            | Part Number | Description                        | Qty. |
|---------------------------------|-------------|------------------------------------|------|
| 1                               | 23726234    | Dipstick (tube+dipstick)           | 1    |
| <b>Dipstick to engine</b>       |             |                                    |      |
| 2                               | 984734      | Flange Screw                       | 1    |
| 3                               | 965564      | Bracket                            | 1    |
| 4                               | 990940      | Flange Nut                         | 1    |
| 5                               | 25089412    | Attaching clamp (P clamp + rubber) | 1    |
| 6                               | 990939      | Flange Nut                         | 1    |
| <b>Dipstick to transmission</b> |             |                                    |      |
| 7                               | 25089412    | Attaching clamp (P clamp + rubber) | 1    |
| 8                               | 984734      | Flange Screw                       | 1    |