



05V-112

VEHICLE RECALL

SC294

(Does not apply to Mack Trucks Australia)

Date: 05/03/05

To: All MACK Dealers

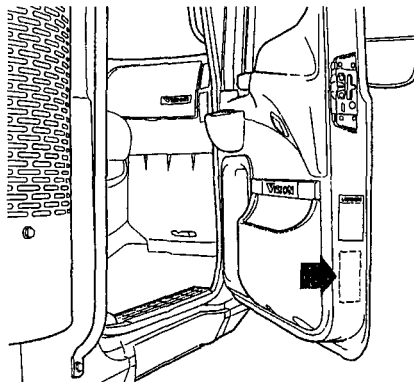
Subject: Interference Condition Between Adjustable-Length Torque Rod and Left-Side Brake Chamber — CXN and CHN Model Chassis Equipped with Air Suspension and MACK Rear Axles

On CXN and CHN model chassis (manufactured prior to September 19, 2004) equipped with air suspensions and MACK rear axles, adjustable-length longitudinal torque rods are used on the left-hand side of the chassis as a means of adjusting thrust angle of each drive axle. The possibility exists, however, for the torque rod to contact the left-side brake chamber during chassis articulation. To eliminate this interference condition, the adjustable-length longitudinal torque rods must be replaced with fixed-length torque rods. Approximately 291 CXN and CHN model chassis manufactured prior to September 19, 2004 are involved in this campaign. A list of affected chassis has been sent to all applicable dealers.

Procedures:

NOTE

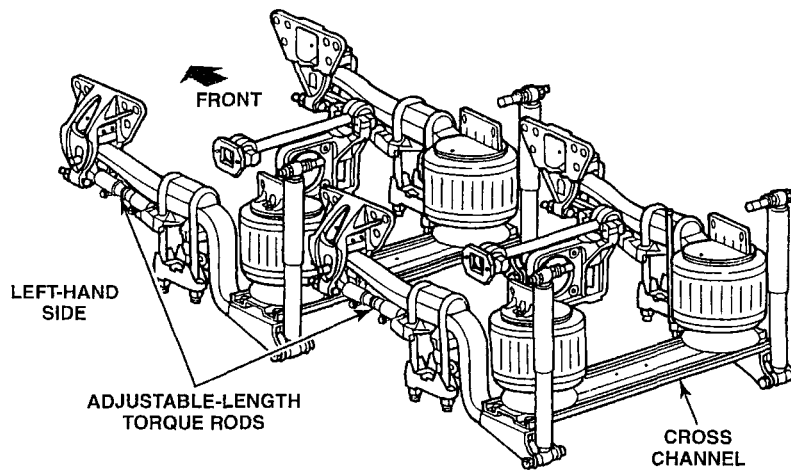
Before proceeding, check campaign status in the MACKnet system to see if the campaign has already been completed. Campaign status can also be checked by looking at the Campaign Completion Label located on the lower edge of the passenger-side door. If the campaign has been completed, the campaign number (SC294) and the completion date should be written on the label.



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Figure 1 — Campaign Label Location

The left-side longitudinal torque rods must be inspected on all affected chassis.



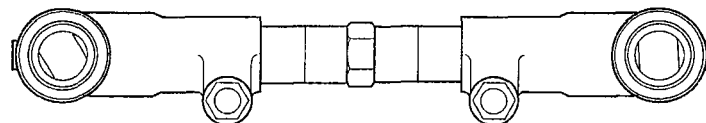
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Figure 2 — AL Suspension with Adjustable-Length Axle Alignment Torque Rods

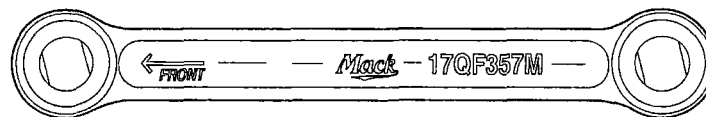
If equipped with adjustable-length torque rods, they must be replaced with fixed-length torque rods (part No. 17QF357M).

NOTE

If the chassis is already equipped with fixed-length torque rods on the left-hand side of the chassis, no further action is required.



17QF466M ADJUSTABLE-LENGTH TORQUE ROD



17QF357M FIXED-LENGTH TORQUE ROD

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Figure 3 — Adjustable-Length and Fixed-Length Torque Rods

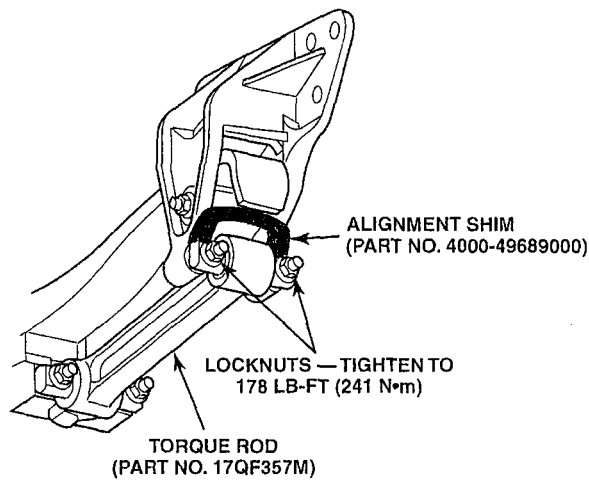
After installing the fixed-length longitudinal torque rods, a complete drive axle alignment must be performed. Rear drive axle alignment specifications are as follows:

- **Thrust Angle** — $0'' \pm 1/8''$ ($0'' \pm 0.125''$), $0^\circ \pm 0.08^\circ$, $0 \text{ mm/m} \pm 1.4 \text{ mm/m}$
- **Scrub (Parallelism)** — $0'' \pm 1/8''$ ($0'' \pm 0.125''$), $0^\circ \pm 0.08^\circ$, $0 \text{ mm/m} \pm 1.4 \text{ mm/m}$

NOTE

For axle alignment procedures, refer to the *MACK AL and AL II Air Suspension Service and Repair Manual*, 14-101.

Proper thrust angle is obtained by installing alignment shims (part No. 4000-49689000) between the torque rod bar pin and the front frame hanger bracket on both the left- and right-hand sides of the chassis as required. Once proper alignment has been obtained, tighten the torque rod fasteners to 178 lb-ft (241 N•m).

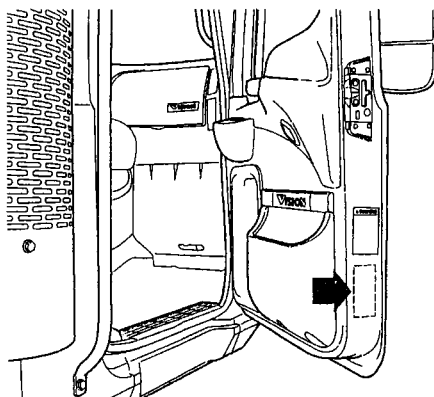


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Figure 4 — Longitudinal Torque Rod Mounting

NOTE

To indicate that the campaign has been completed, use a permanent-type marker (such as a Sharpie®) to write the campaign number (SC294) and completion date in the spaces provided on the Campaign Completion label located on the lower edge (below the door latch) of the passenger-side door. If a label is not already affixed to the door, apply a label (part No. TS897) and supply the information as required. Campaign Completion labels are available in packs of 50 and can be ordered by faxing a completed BR313 to Pacesetters Business Services at 610-264-9465.



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Figure 5 — Campaign Label Location

Parts Required:

Order vehicle recall parts on a separate stock order and process through the parts distribution center normally serving your area. Do not include parts on this requisition that are not required for this recall campaign.

International orders are to be prefixed — V.O.R.

Qty	Part No.	Description
2	17QF357M	Fixed-length torque rod
*	4000-49689000	Alignment shims

* Quantity as required to bring thrust angle into specification.

Removed Parts:

The removed adjustable-length torque rods may be scrapped locally.

REIMBURSEMENT:

Campaign expenses are to be recovered through normal warranty claim procedures. Enter the following information on the warranty claim:

UNDER	ENTER	
Failed Part No.....	SC0294	
Labor Code/Allowance	135 8D 1Q 96 — 0.2 hr.	Time allowed to take charge of vehicle and check campaign status and/or inspect vehicle for presence of adjustable-length longitudinal torque rods.
	135 8E 1Q 96 — 1.5 hr.	Time allowed to remove and replace both adjustable-length longitudinal torque rods and check drive axle alignment.
	135 8F 1Q 96 — 0.3 hr.	Additional time per axle for adjusting and rechecking axle alignment as required.

NOTE

As required by Federal Motor Vehicle Safety Standards 49 CFR 573.11, no vehicle subject to an open safety campaign shall be delivered to the customer until such time as the defect or noncompliance is remedied.