

# Revised Upper Radiator Hose and Steel Coolant Tube

M-261-006

(November 2008)

## Valid for

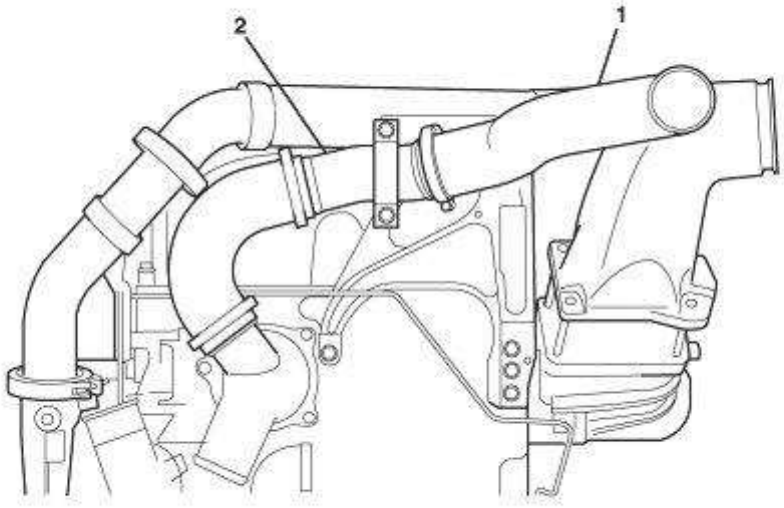
Mack CXU models with an MP-8, Built before October 2008.

## Case description

Effective October 14, 2008, a revised upper radiator hose and steel coolant tube were implemented into production on CXU model chassis equipped with a MACK MP8 engine. The revised hose is longer and the steel tube is shorter to provide flexibility to the hose and eliminate stress loading, which can lead to premature hose failure in certain applications. Should failure of the upper radiator hose be encountered, the existing upper radiator hose and steel coolant tube should be replaced with these revised components.

*Note: Does not apply to Mack Trucks Australia.*

## Parts

Upper Radiator Hose and Steel Coolant Tube				
				
Key	Qty.	Part number	Description	Replaces
1	1	21293044	Hose, upper radiator, EPDM rubber, 2.25-degree engine mounting angle	21000110
	1	21293046	Hose, upper radiator, EPDM rubber, 4.00-degree engine mounting angle	21000112

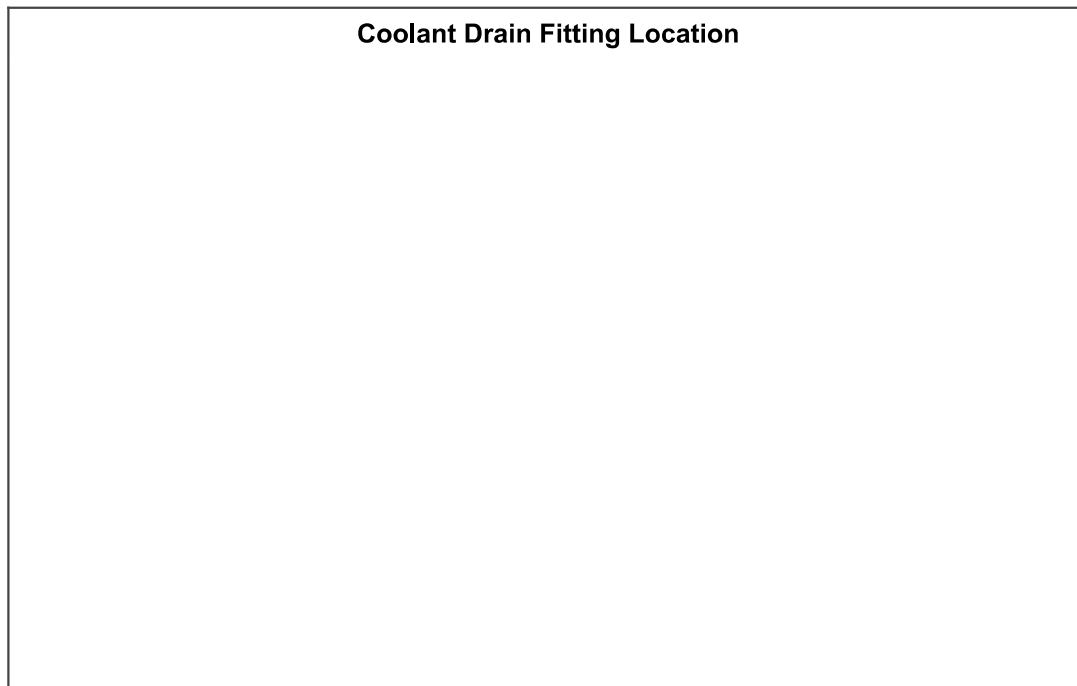
	1	21293048	Hose, upper radiator, silicone, 2.25-degree engine mounting angle	21000123
	1	21293050	Hose, upper radiator, silicone, 4.00-degree engine mounting angle	21000125
2	8	21293081	Tube, upper radiator	20943409

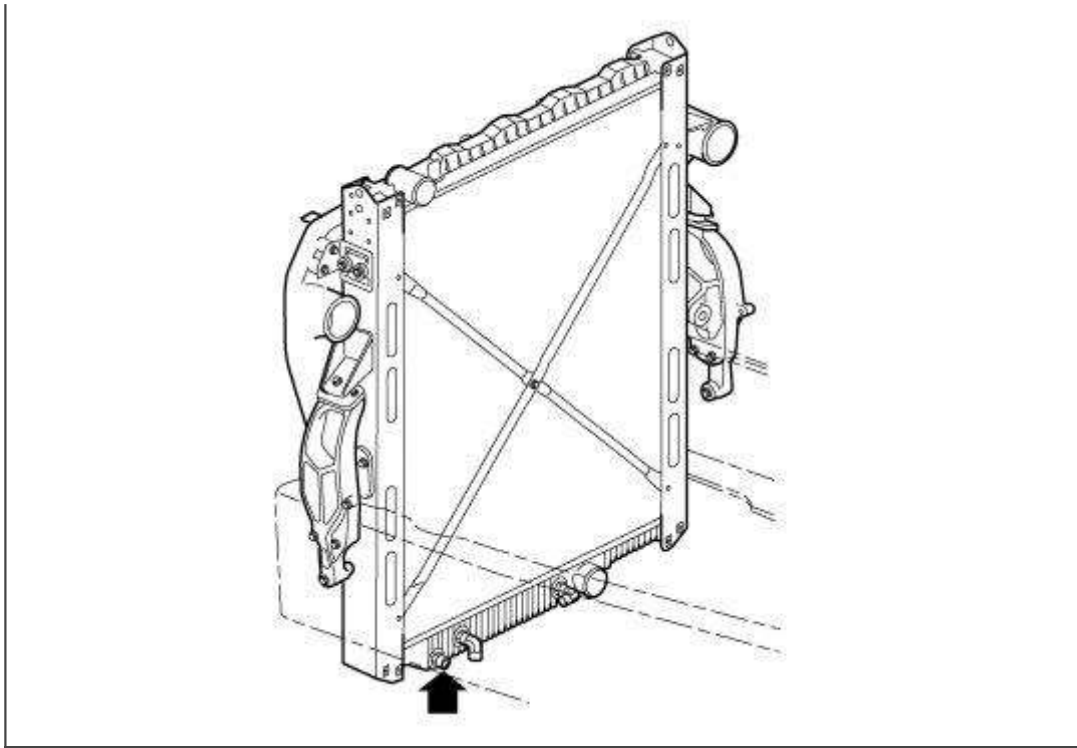
*Note: The part number for the correct upper radiator hose depends upon engine mounting angle. Refer to the chart below to determine engine mounting angle.*

Chassis Model	Condition	Engine Mounting Angle
CXU	All tandem rear axle models (both vendor and MACK carriers), and single rear axle models with MACK carriers	2.25 degrees
	Single rear axle models with vendor carriers	4.00 degrees

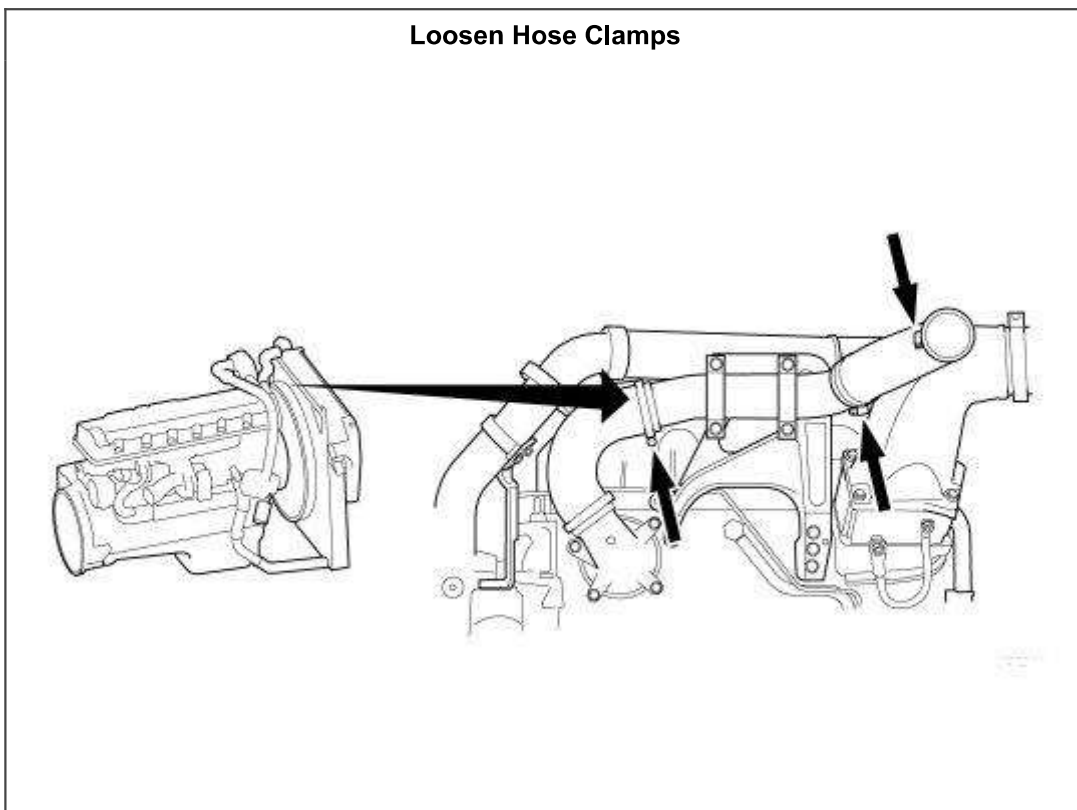
## Procedures for replacing the radiator hose and coolant tube are as follows:

1. Secure the chassis for service, apply the parking brakes and block the wheels to prevent the vehicle from moving.
2. Remove the filler cap from the coolant surge tank.
3. Using the coolant extractor (tool No. 2815-2V700), drain the coolant to a level low enough to allow removal of the upper radiator hose and steel coolant tube. On CXU model chassis, the coolant drain valve is located on the lower radiator tank (refer to the illustration below). If the coolant extractor is not available, the coolant can be drained by connecting the coolant drain hose (tool No. 9996049) to the quick-connect fitting located in the lower radiator tank and draining the coolant into a suitable container. If the coolant is drained in this manner, cover the container to prevent contaminant entry, as the same coolant will be used to refill the system after the repair has been completed.

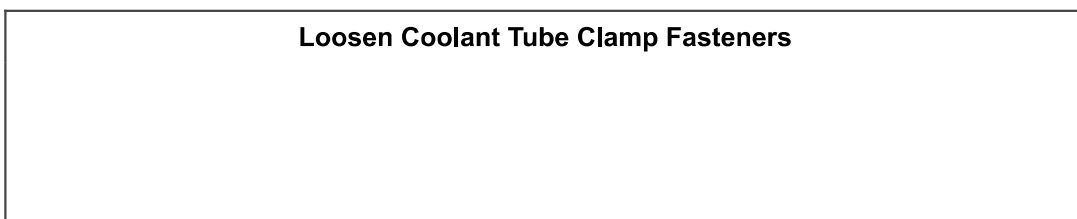


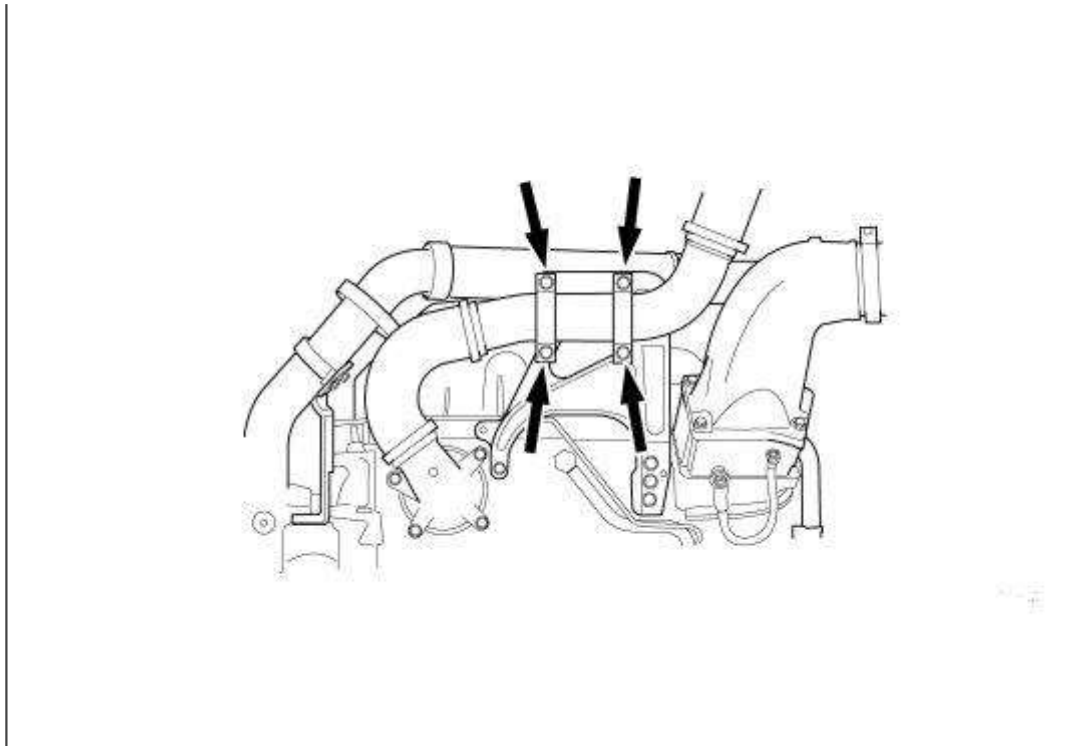


4. Loosen the hose clamps that secure the upper radiator hose to the upper radiator tank and the steel coolant tube, and also loosen the hose clamp that secures the elbow hose to the tube.



5. Loosen and remove the fasteners that secure the steel coolant tube clamps to the mounting bracket.





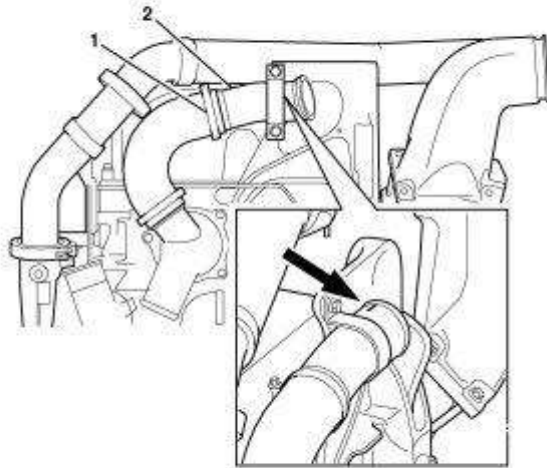
6. Remove the upper radiator hose and steel coolant tube.
7. Install the replacement steel coolant tube (part number 21293081) with the white alignment mark on the side of the tube that connects to the upper radiator hose facing UP, and with the alignment mark on the opposite end of the tube aligned with the mark on the elbow hose.

**Install Steel Coolant Tube**

1. Hose Clamp	2. Steel Coolant Tube (part number 21293801)
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8. Install the replacement upper radiator hose (hose part number depends upon hose material [silicone or EPDM rubber] and engine mounting angle, refer to chart below). Align the alignment mark on the radiator hose with the white mark on the top of the coolant steel tube.

### Install Upper Radiator Hose



1. Hose Clamp

Upper radiator hose — Part Nos. as follows:

21293044, EPDM rubber, 2.25-Degree Engine Angle

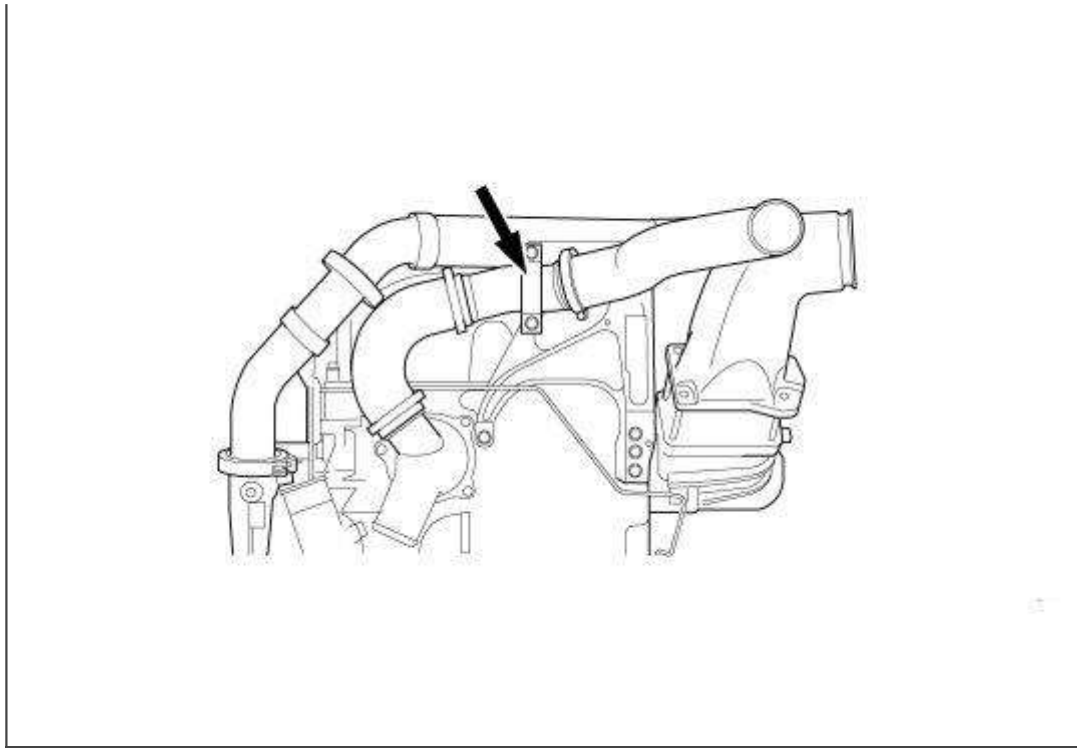
21293046, EPDM rubber, 4.00-Degree Engine Angle

21293048, Silicone, 2.25-Degree Engine Angle

21293050, Silicone, 4.00-Degree Engine Angle

9. Using one of the existing U-clamps and two cap screws, secure the coolant tube to the mounting bracket.

### Secure Coolant Tube to Mounting Bracket



10. After making sure that the upper radiator hose and coolant steel tube are properly aligned, tighten the U-clamp cap screws to 70 N•m ±12 (52 lb-ft ±9) and the three hose clamps to 3.1 N•m (27.5 lb-in).
11. Refill the cooling system and check for leaks.
12. Reinstall the filler cap on the surge tank, and then start the engine. Allow the engine to run at an idle until normal operating temperature is reached.
13. Stop the engine and recheck the coolant level. Replenish with the recommended coolant as necessary.

## Warranty Information

### Reimbursement

**This Repair may be eligible for reimbursement if a product failure was experienced within the time and mileage limits of the applicable warranty coverage. Reimbursement is obtained via normal claim handling process.**

<b>Claim Type (used only when uploading from the Dealer Bus. Sys.)</b>	01
<b>Labor Code</b>	
Primary Labor Code	232 3C 29 80 — 0,6 hrs., time allowed to replace upper radiator hose and steel coolant tube on CXU model chassis. Does not include "take-charge" time.
<b>Causal Part</b>	21000110, 21000112, 21000123 or 21000125

## Issued by

Technical Service

Mack Trucks, Inc. engages in a continuous program of testing and evaluating to provide the best possible product. Mack Trucks, Inc., however, is not committed to, or liable for updating existing chassis.

