

Exhaust Flex Pipe Cracks

M-252-001

(January 2009)

Valid for

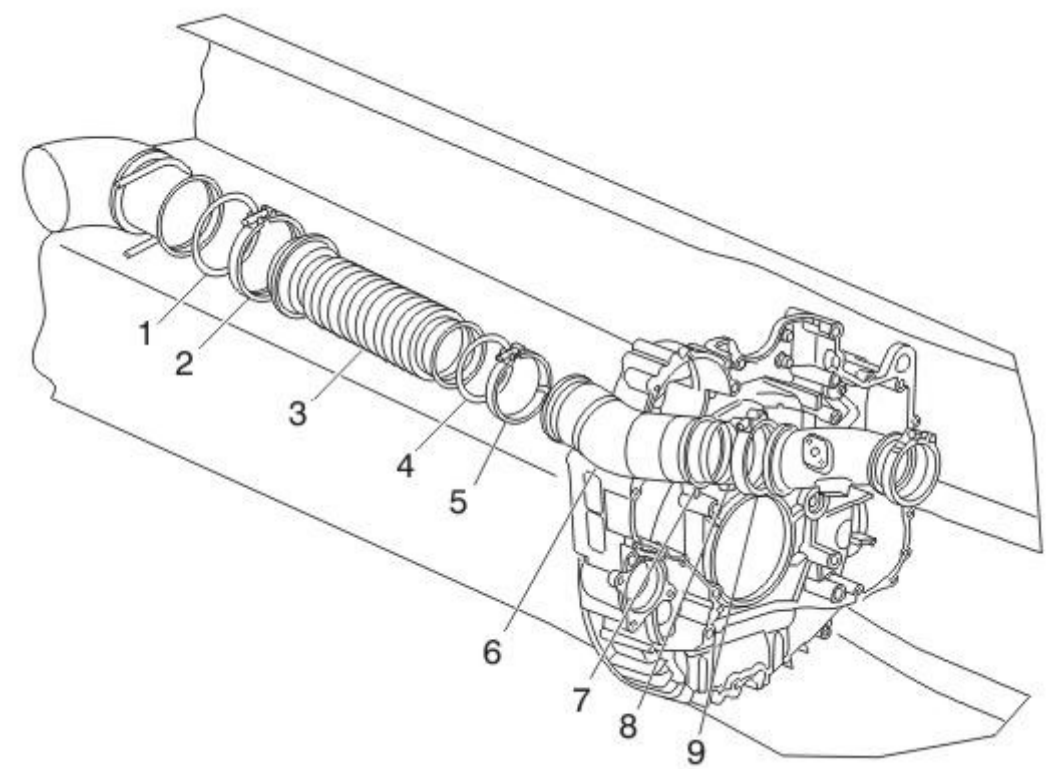
All CXU,CHU,GU,TD models with MP7, MP8 built before May 2008

Case description

Effective May 9, 2008, a redesigned exhaust flex pipe and turbocharger outlet pipe (located between the turbocharger cast diffuser and the exhaust flex pipe) were implemented into production on CXU, CHU and GU model chassis. Both the turbocharger outlet pipe and the exhaust flex pipe were redesigned to improve exhaust pipe alignment, and the diameter of the inside liner of the flex pipe was reduced by 6.35 mm (1/4") to prevent contact with the pipe bellows. These changes were made to prevent the exhaust flex pipe from cracking. Should a cracked exhaust flex pipe be encountered on a chassis manufactured prior to May 9, 2008, the existing flex pipe and turbocharger outlet pipe should be replaced with these revised components.

Note: Not applicable to Mack Trucks Australia.

Parts



Revised Exhaust Flex and Turbocharger Outlet Pipes

Key	Qty.	Part number	Description	Replaces
1	1	21095726	Gasket, flex pipe-to-intermediate	

			pipe	
2	1	21021850	Clamp, V-band, flex pipe-to-intermediate pipe	
3	1	21219442	Pipe, flex	4ME22043M
4	1	21095721	Gasket, flex pipe-to-turbocharger outlet pipe	
5	1	21021852	Clamp, V-band, flex pipe-to-turbocharger outlet pipe	
6*	1	21264530	Pipe, turbocharger outlet, MP7 with 2.25-degree engine mounting angle	4ME33177M 21202658
	1	21202644	Pipe, turbocharger outlet, MP7 with 4.00-degree engine mounting angle	4ME33176M
	1	21202646	Pipe, turbocharger outlet, MP8 with 2.25-degree engine mounting angle	4ME53230M
	1	21202648	Pipe, turbocharger outlet, MP8 with 4.00-degree engine mounting angle	4ME53231M
7	1	20978469	Ring, alignment, exhaust pipe (refer to NOTE below)	
8	1	21095721	Gasket, turbocharger outlet pipe-to-diffuser pipe	
9	1	21060426	Clamp, V-band, turbocharger pipe-to-diffuser pipe	

* Turbocharger outlet pipe part number 21264530 were implemented into production during the July 21 through August 1, 2008 timeframe. Outlet pipe part Nos. 21202644, 21202646 and 21202648 were implemented into production on May 9, 2008.

Note: An exhaust pipe alignment ring (part number 20978469, key item 7 in the table above) was implemented into production approximately mid-October 2006. The cast diffuser and turbocharger outlet pipe include a counterbore to accept this ring. This ring is NOT used if the cast diffuser does not include the counterbore.

Repair procedure

The correct turbocharger outlet pipe depends upon the engine model and engine mounting angle. Refer to the following chart to determine the engine mounting angle:

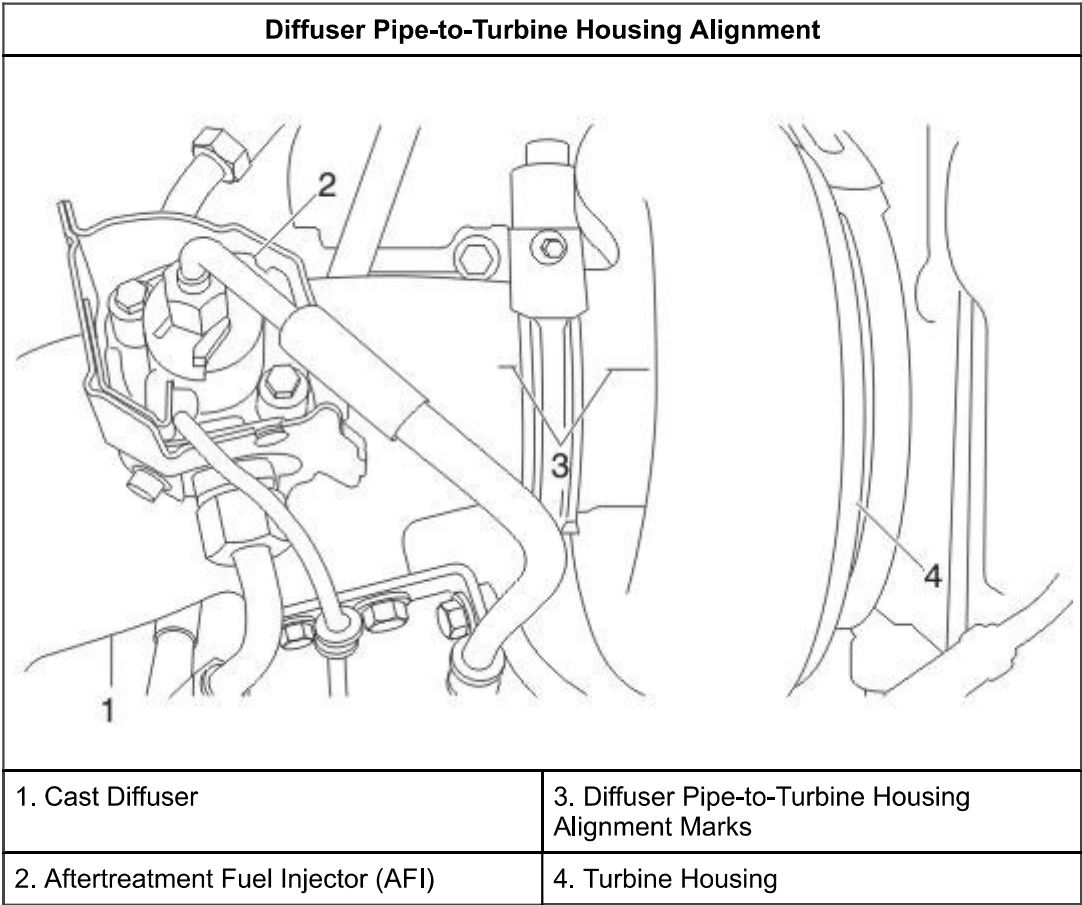
Chassis Model	Condition	Engine Mounting Angle
CXU	All tandem axles (both vendor and MACK carriers) and single rear axle with MACK carrier	2.25 degrees
	Single rear axle with vendor carrier	4.00 degrees
CHU	All tandem axles (both vendor and MACK carriers) and single rear axle with MACK carrier	2.25 degrees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

When installing the exhaust flex pipe and turbocharger outlet pipe, alignment of the exhaust system must be verified as outlined in the following steps.

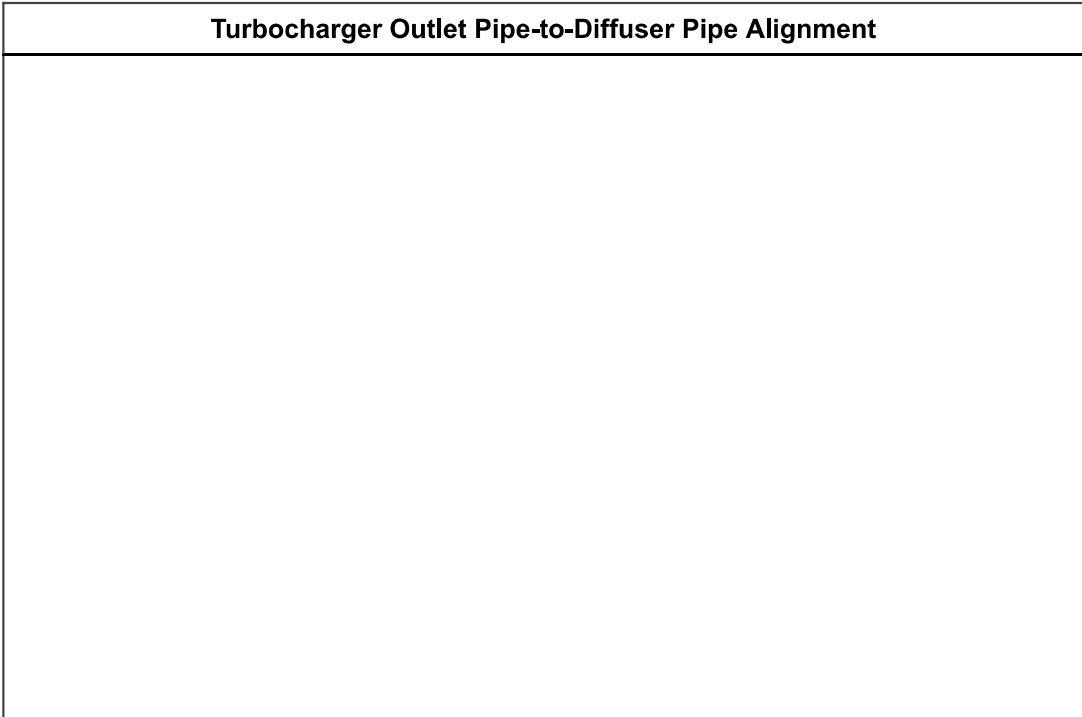
Note: Alignment of the turbocharger diffuser pipe to the turbine housing, as well as alignment of the turbocharger outlet pipe to the diffuser pipe is critical to prevent the exhaust flex pipe from cracking.

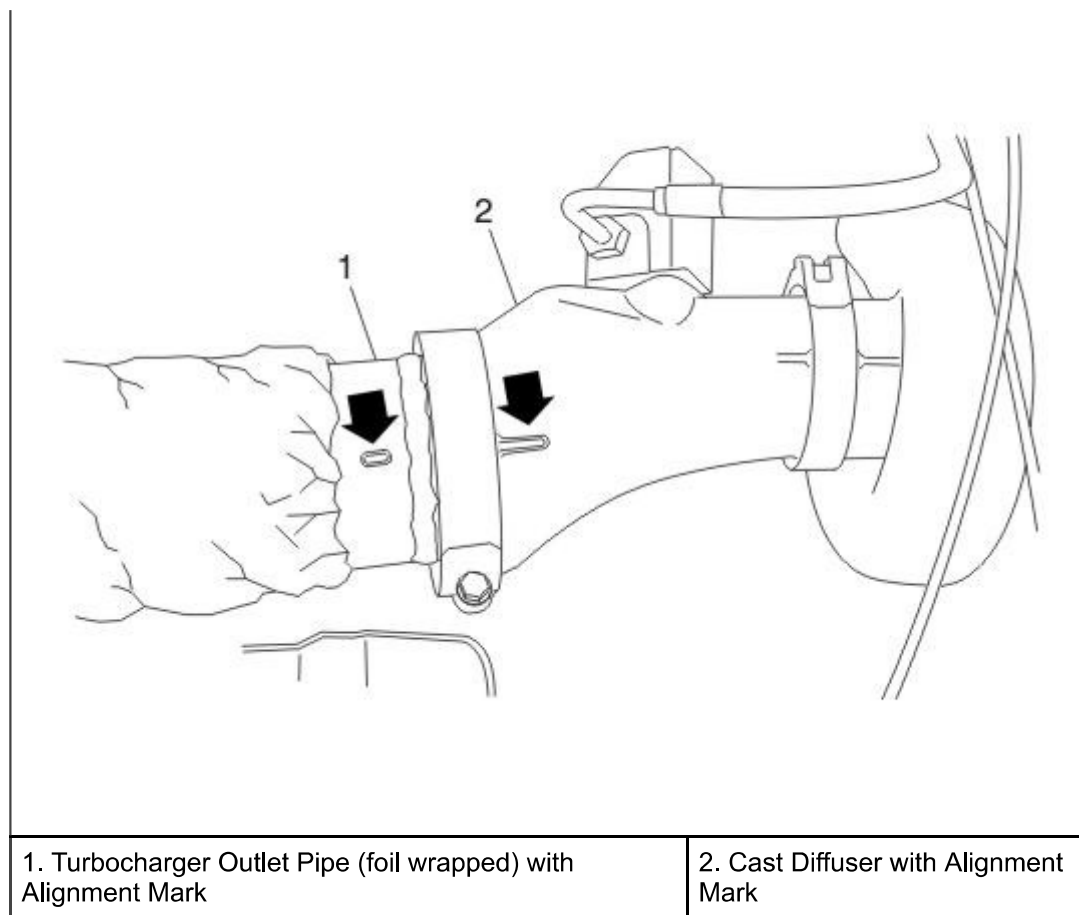
Torque specification for the V-band clamps is 6.8 N•m (60 lb-in).

- 1. Verify that the alignment marks on the cast diffuser and the turbocharger turbine housing are directly opposite each other as shown below.



- 2. Verify that the alignment marks on the front of the turbocharger outlet pipe and the rear of the cast diffuser are directly opposite each other as shown in the following illustration.





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.	
Claim Type (used only when uploading from the Dealer Bus. Sys.)	01
Labour Code	
Primary Labor Code	234 1G 00 80 — 0.9 hrs., time allowed to replace existing exhaust flex pipe and turbocharger outlet pipe. Does not include "take-charge" time.
Additional Labor Code	234 1H 00 80 — 1.3 hrs., additional time allowed to remove and reinstall fairings if equipped. Does not include "take-charge" time.
Causal Part	Use applicable flex pipe part number

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.