



Field Service Bulletin Trucks

Mack Trucks, Inc.
Greensboro, NC USA

Date	Group	No.	Release	Page
11.2012	293	017	01	1(12)

Exhaust Gas Recirculation (EGR) Valve Oil Supply Line

LEU, MRU
MP7

FSB 293-017, Exhaust Gas Recirculation (EGR) Valve, Oil Supply Line

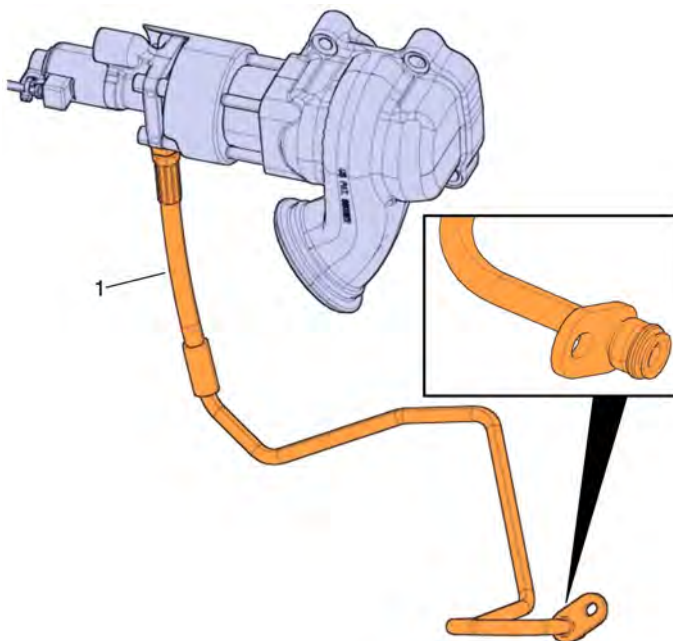
(November 2012)

MACK Truck chassis built prior to AUG 14 2012 with MP7 (US10 emissions) engines built prior to engine serial number 547262 were assembled with Exhaust Gas Recirculation (EGR) valve oil supply line (part number 21183591) with the formed tube fitting. The old EGR valve oil supply line with the formed tube fitting is now replaced by the new oil supply line (part number 21544061) with the machined fitting brazed onto the end of the tube to prevent oil leaks at the oil filter housing.

Note: The existing supply line has the retaining plate swedged onto the tube. The new supply line has a brazed fitting and a floating retaining plate.

Note: Do not replace the EGR valve oil supply line unless there is an oil leak in the oil supply line fitting at the oil filter.

Note: This bulletin does not apply to MACK Trucks Australia.



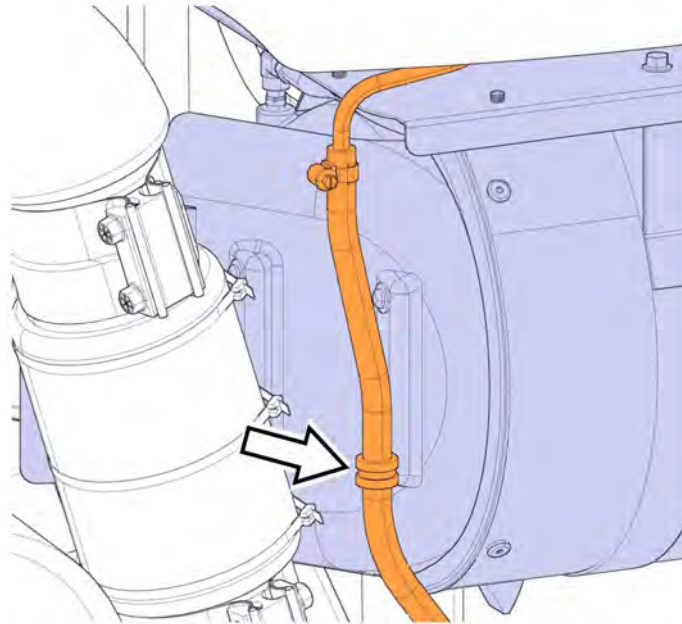
W2077816

EGR Valve Oil Supply Line			
Item #	Part Number	Description	QTY
1	21544061	Pressure Hose, EGR Valve Oil Supply	1

Procedure

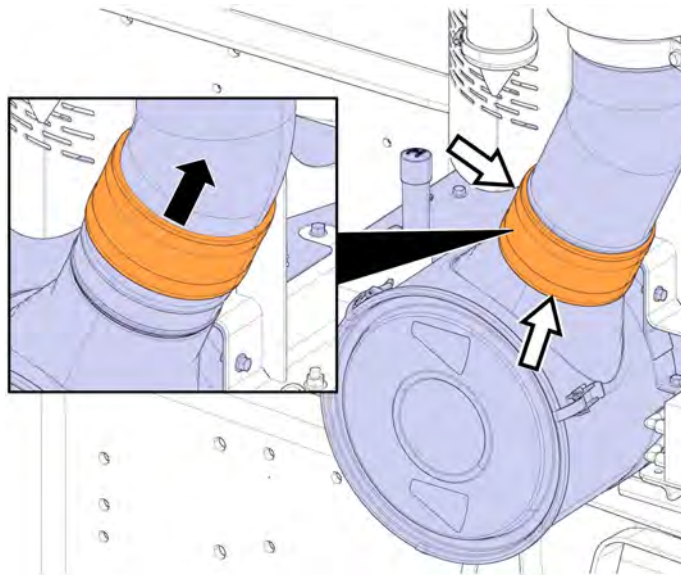
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engine" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

- 1 Secure the vehicle for service by parking it on a flat level surface, applying the parking brake, chocking the rear wheels, and placing the transmission in neutral or park.
- 2 Tilt cab.
- 3 Disconnect all cables from the negative (ground) battery terminals to prevent personal injury from electrical shock and prevent damage to electrical components.
- 4 Remove Selective Catalyst Reduction (SCR) drain hose from air filter housing.



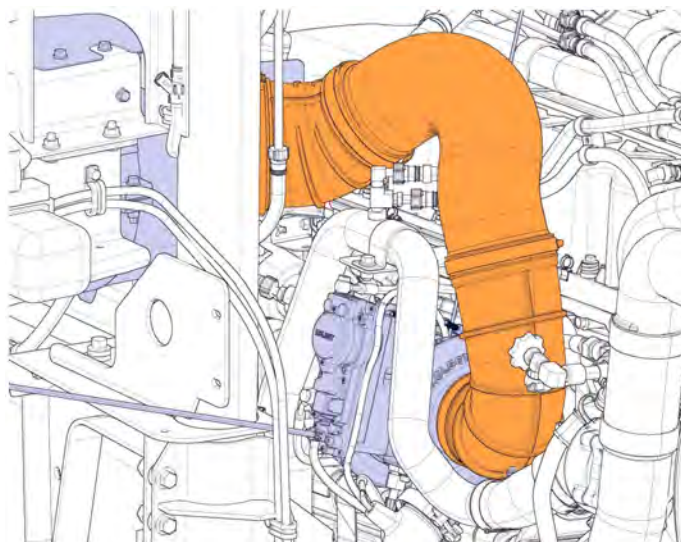
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- 5 Loosen inlet hose clamps on air cleaner, and slide hose off of air cleaner.



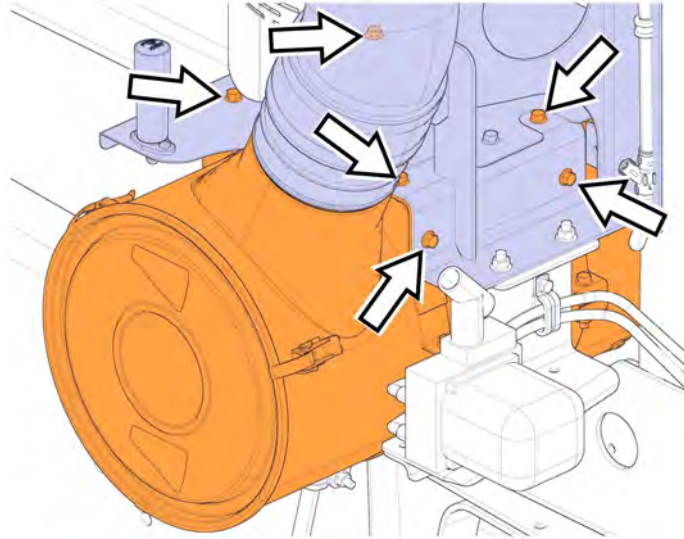
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- 6 Remove intake pipe between engine turbocharger and air cleaner.



W2077960

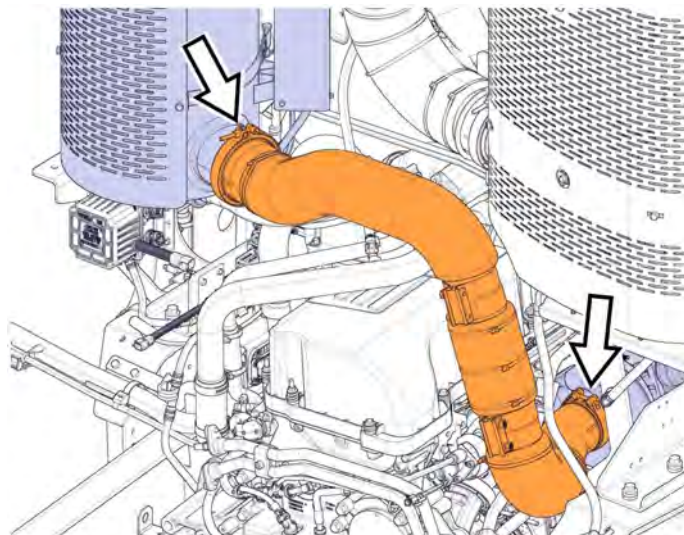
- 7 Remove air filter housing bracket assembly.



W2077961

- 8 Remove 1/4 fender right side.
9 Remove the exhaust pipe (engine turbocharger to Diesel Particulate Filter (DPF) pipe), and discard gaskets.

Note: Inspect v-band clamps for damage. If no damage is present, store clamps for reuse. Replace clamps if damage is present.



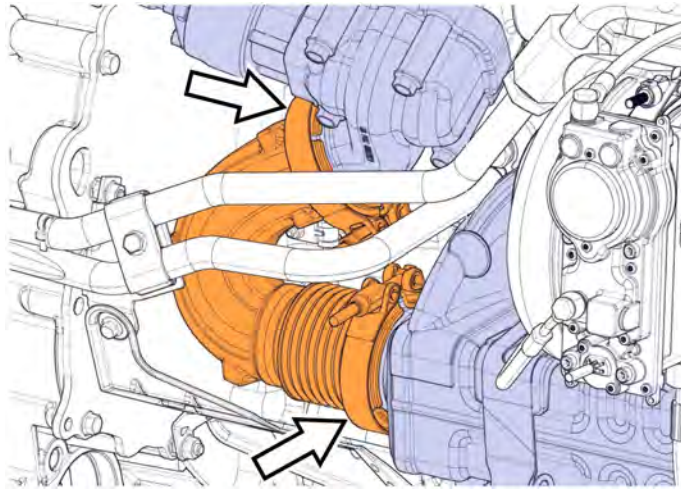
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10 Remove clamps securing the Exhaust Gas Recirculation (EGR) outlet pipe.

11 Remove EGR outlet pipe.

Note: Inspect v-band clamps for damage. If no damage is present, store clamps for reuse. Replace clamps if damage is present.

Note: Discard gaskets and replace with new ones.



W2077821

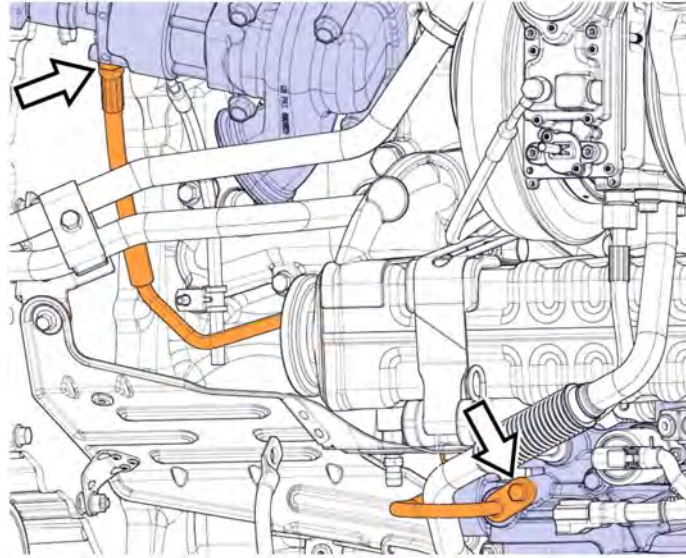
12 Remove P-clamps from oil supply line.



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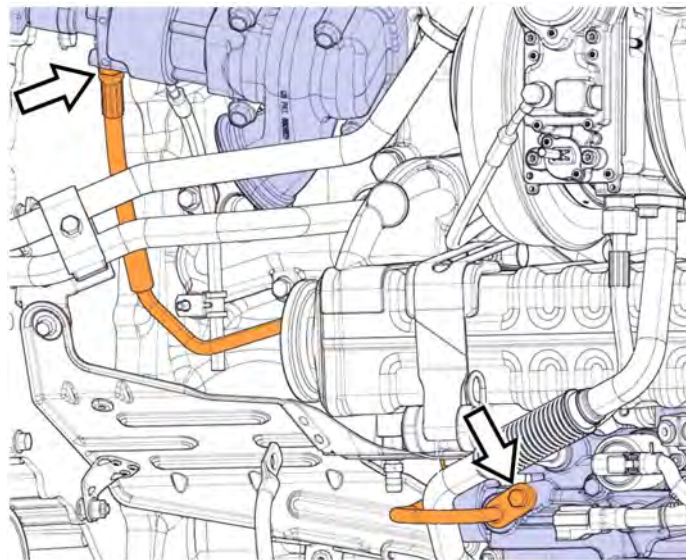
13 Disconnect oil supply line from EGR valve.

14 Disconnect the oil supply line at the oil filter housing and remove oil supply line.



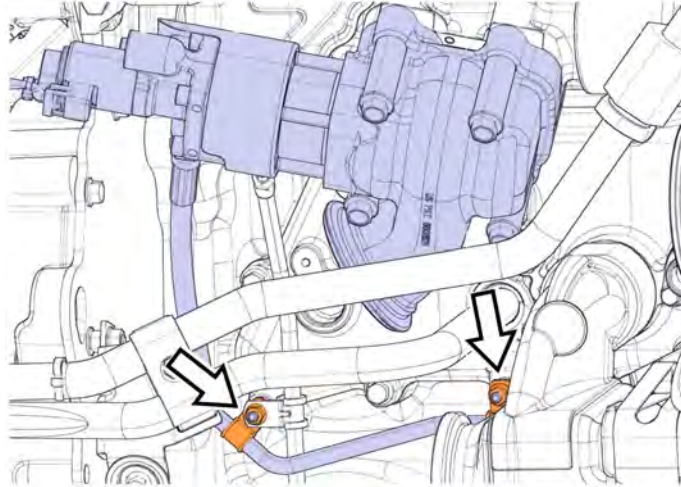
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15 Install the replacement oil supply line.



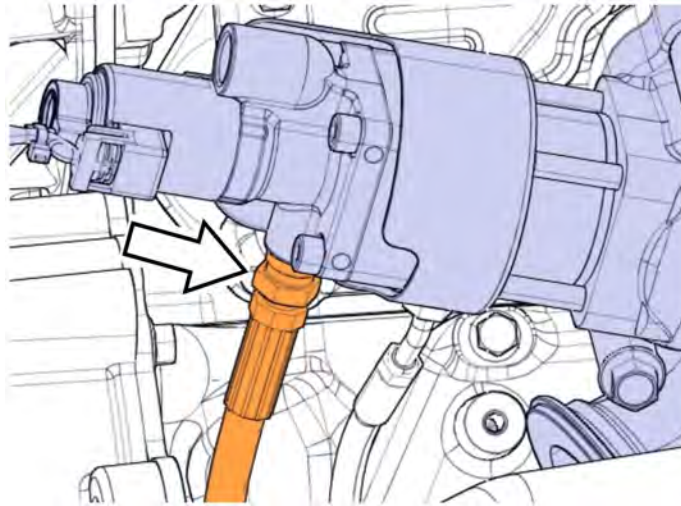
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16 Loosely install P-clamps on oil line and connect oil supply line fitting at EGR valve.



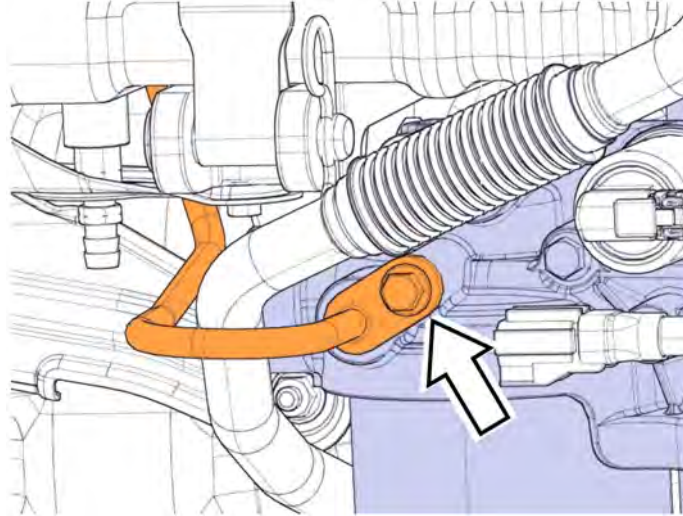
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17 Tighten fitting nut at EGR valve to 30 ± 5 Nm (22 ± 4 ft-lb).



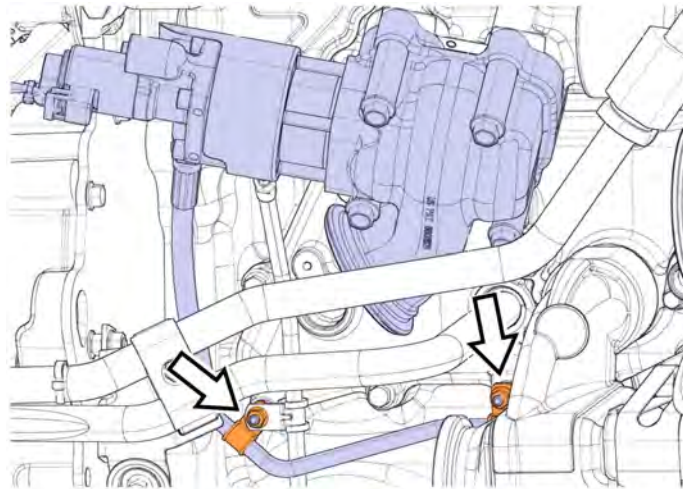
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18 Tighten mounting bolt at oil filter housing to 24 ± 5 Nm (18 ± 4 ft-lb).



W2077825

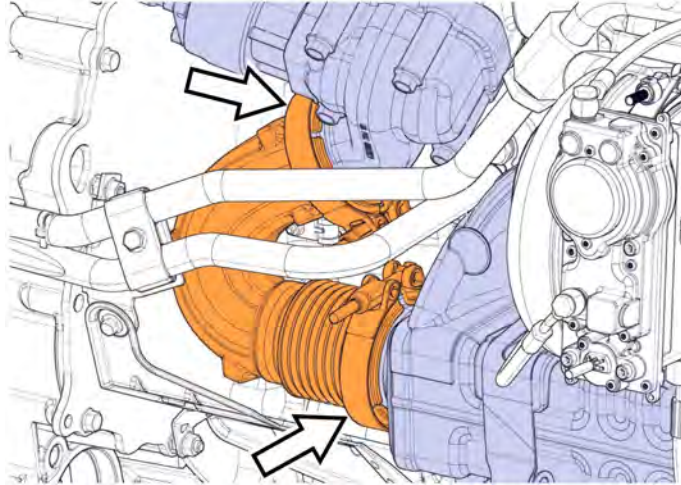
19 Tighten P-clamp fasteners securing oil supply line to 24 ± 4 Nm (18 ± 3 ft-lb).



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20 Install EGR cooler outlet pipe with v-band clamps and new gaskets.

21 Tighten v-band clamps to 6 Nm (53 in-lb).



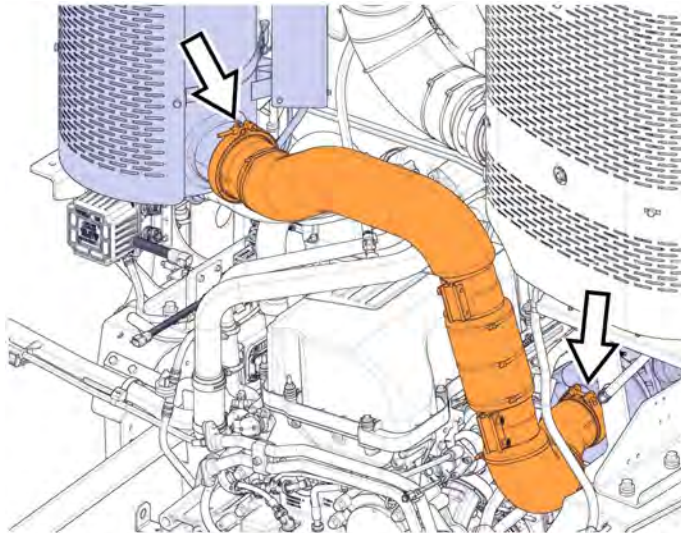
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22 Clean surfaces of the exhaust (engine turbocharger to DPF) pipe.

23 Using new gaskets, Install the exhaust pipe (engine turbocharger to DPF) pipe.

24 Tighten exhaust (DPF) pipe clamp to 7 ± 0.5 Nm (60 ± 5 in-lb).

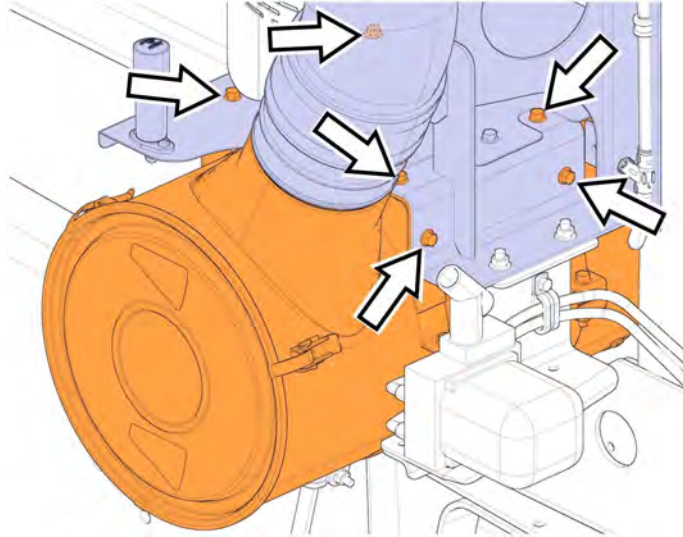
25 Tighten exhaust (engine turbocharger) pipe clamp to 12 ± 2 Nm (106 ± 18 in-lb).



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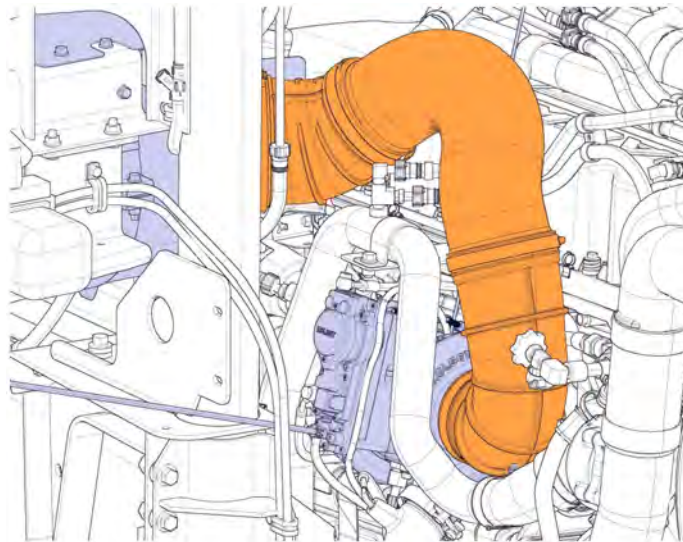
26 Install 1/4 fender, and tighten fasteners to 244 Nm (180 ft-lb).

27 Install air filter housing bracket and tighten fasteners to 24 ± 4 Nm (18 ± 3 ft-lb).



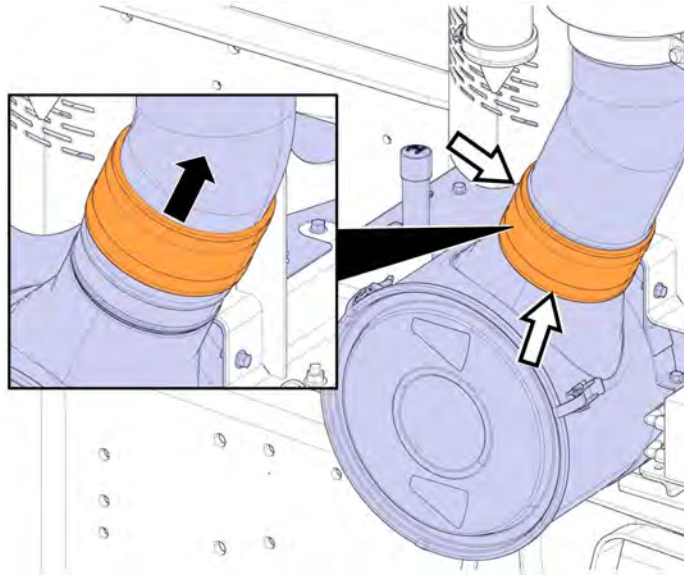
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28 Install intake pipe from engine turbocharger to air filter and tighten clamps to 4 ± 0.6 Nm (35 ± 5 in-lb).



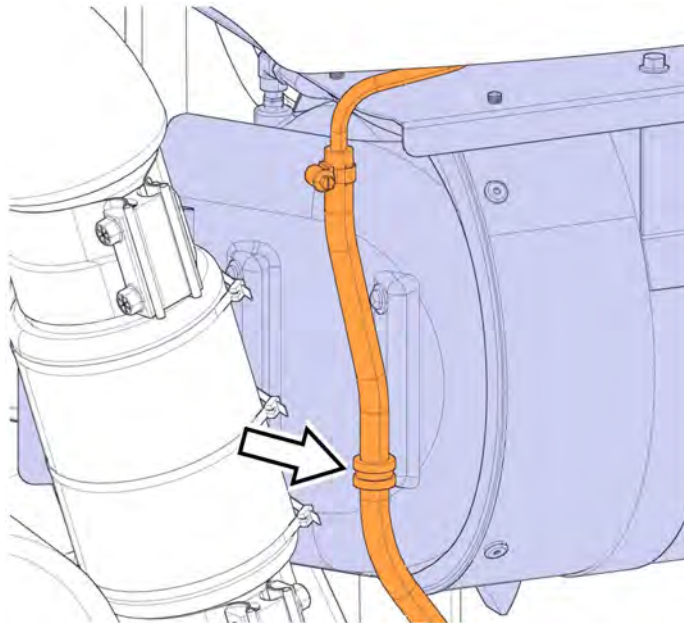
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29 Install inlet hose and clamps to air cleaner. Tighten hose clamps to 4 ± 0.6 Nm (35 ± 5 in-lb).



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30 Install SCR drain hose, and tighten clamp fastener.



W2077958

31 Lower cab.

32 Reconnect all previously removed cables to the negative (ground) battery terminals.

33 Start engine, check for leaks and proper operation. Clear any diagnostic trouble codes (DTC's).

Reimbursement

This repair may be eligible for reimbursement if a product failure was experienced within time and mileage limits of the applicable Warranty coverage. Reimbursement is obtained via the normal claim handling process.	
Claim Type (used only when uploading from the Dealer Bus. Sys.)	01
Labor Code	
Primary Labor Code	2141V-36-80 1.5 hrs.
Causal Part	21183591

MACK Trucks North America engages in a comprehensive program of testing and evaluating to provide the best possible product. MACK Trucks North America however, is not committed to, or liable for updating existing vehicles.