



Date	Group	No.	Release	Page
5.2012	258	772	01	1(21)

Aftertreatment DPF Combustion Housing

SB-10044333-9095

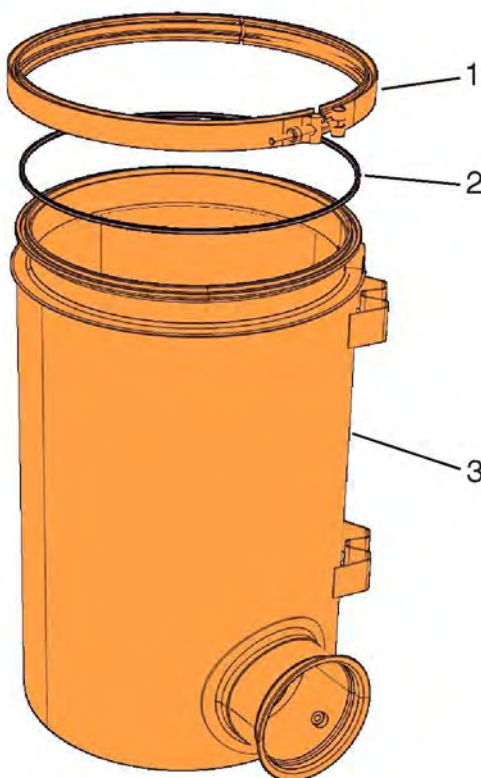
LEU, MRU
MP7

PI0772, Aftertreatment DPF Combustion Housing

(May 2012)

Campaign PI0772 is available for the replacement of the Aftertreatment DPF (Diesel Particulate Filter) combustion modules on certain Mack LEU and MRU chassis built between August 9, 2010 and September 29, 2010. The affected combustion modules have the potential of cracking from thermal expansion during the Regeneration process. The housing improvements includes an improved welding process, and new base material with a greater wall thickness which will prevent issues with fatigue of the base material and welds in the combustion housing.

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



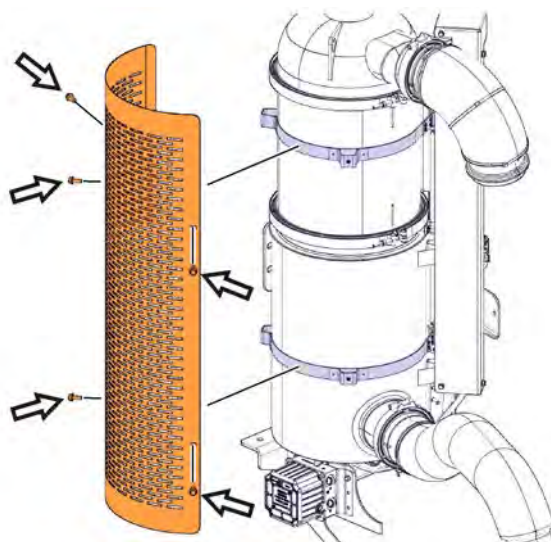
W2071581

Aftertreatment DPF Combustion Housing Kit 21797818			
Item	Qty	Part Number	Description
1	1	21048521	V-Band Clamp
2	1	21424458	DPF Body Gasket
3	1	21797816	Combustion Module

Procedure

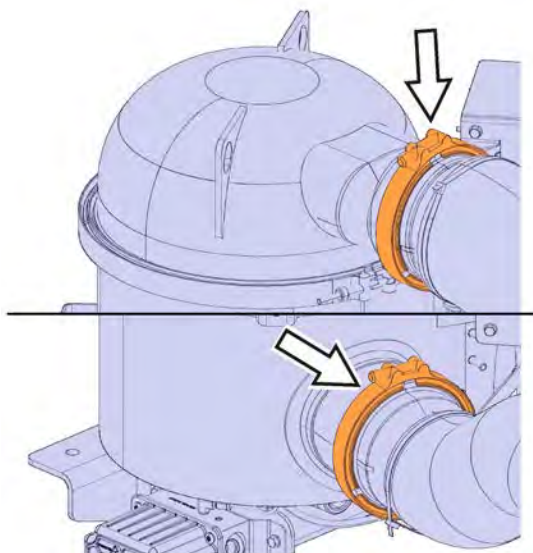
You must read and understand the precautions and guidelines in Service Information, group 20, "General Safety Practices, Engine" before performing this procedure. If you are not properly trained and certified in this procedure, ask your supervisor for training before you perform it.

- 1 Apply parking brake and place shift lever in neutral.
- 2 Disconnect all cables from the negative (ground) battery terminals to prevent personal injury from electrical shock and prevent damage to electrical components.
- 3 Remove Diesel Particulate Filter (DPF) heat shield.



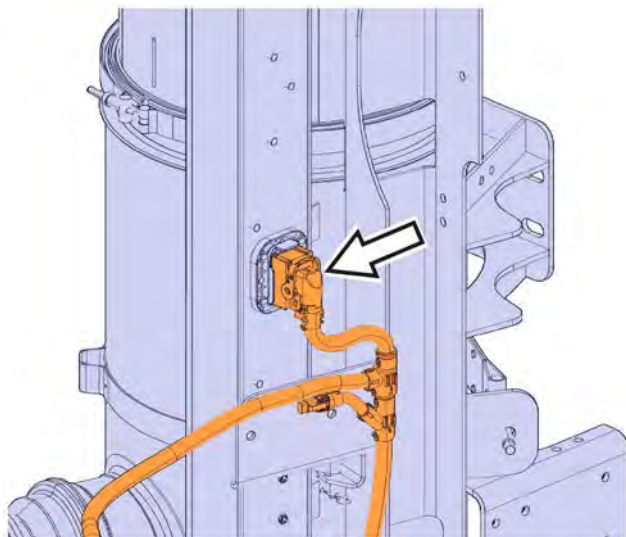
W2071582

- 4 Remove DPF inlet and DPF outlet V-band clamps. Discard old V-band clamps.



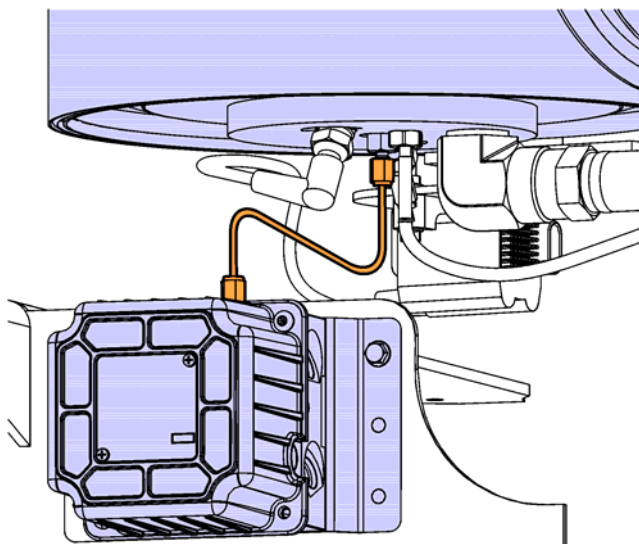
W2071583

- 5 Disconnect the main body harness connector from the DPF.



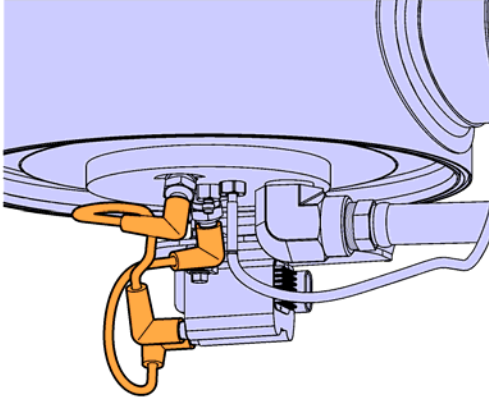
W2071584

- 6 Disconnect DPF burner fuel line from the atomization module and burner nozzle.



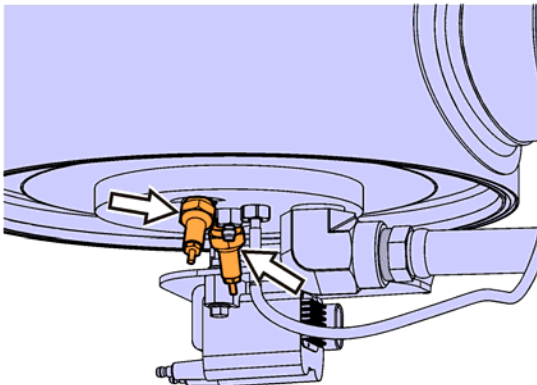
W2071585

- 7 Remove the igniter plug wires.



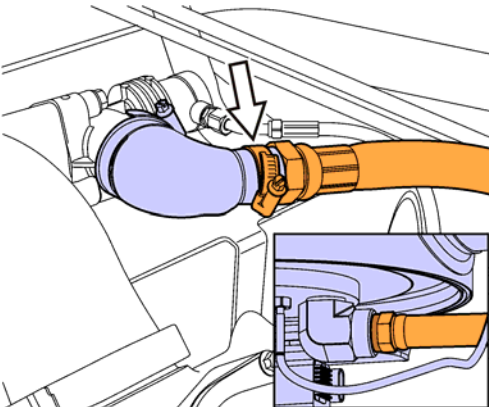
W2071586

- 8 Remove the DPF igniters.



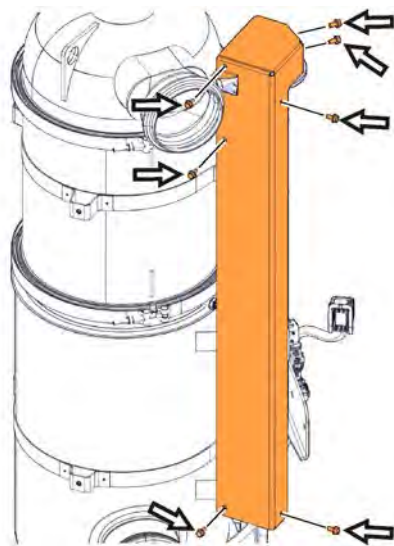
W2071587

- 9 Disconnect the DPF combustion air line from the combustion air valve and the combustion air inlet pipe elbow.



W2071588

- 10 Remove fasteners securing DPF wiring harness raceway cover and position cover out of the way.



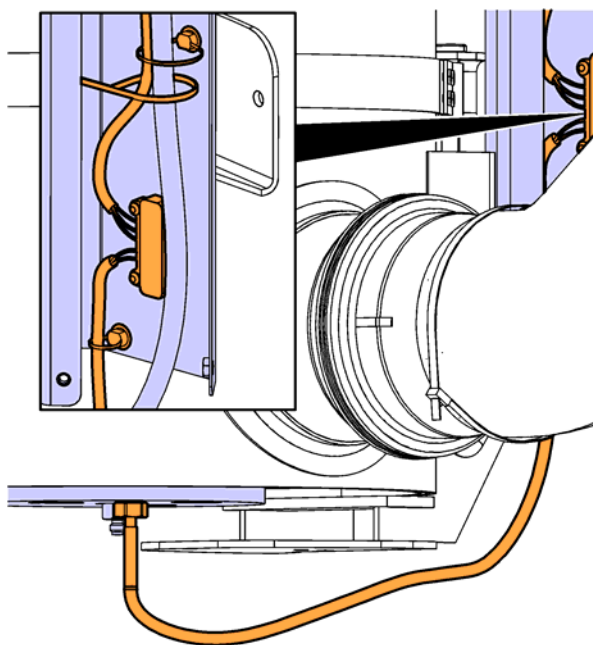
W2071589

- 11 Remove DPF burner temperature sensor and module from the bottom of the DPF and position out of the way.



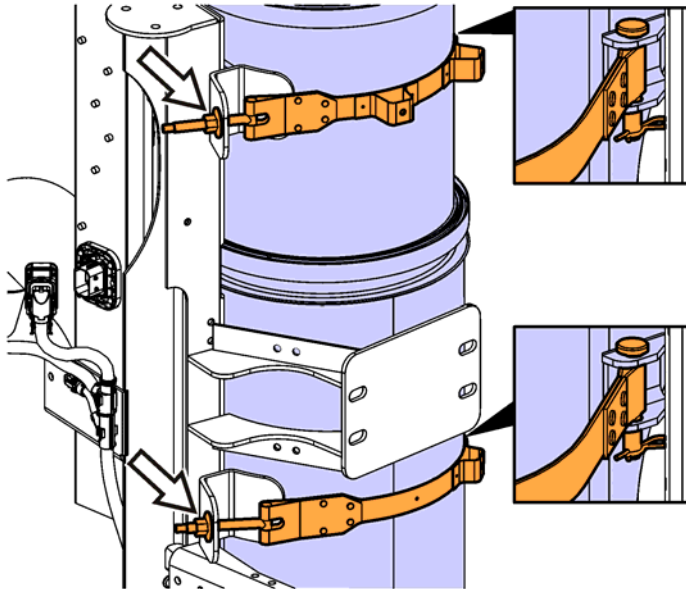
CAUTION

To prevent damage to the DPF temperature sensor, do not bend sensor element during removal.



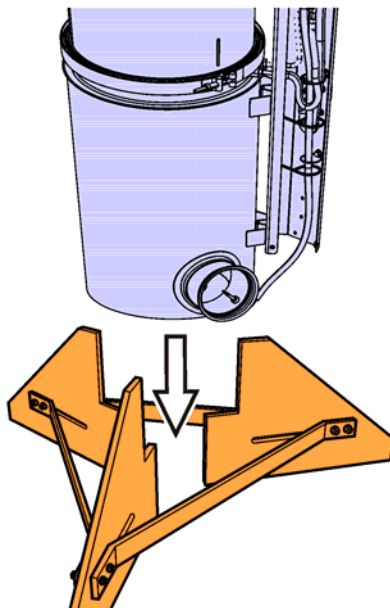
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- 12 Position hoist over DPF and secure.
- 13 Raise hoist to support the weight of the DPF.
- 14 Remove the DPF strap fasteners and clevis pins.
- 15 Remove DPF straps.



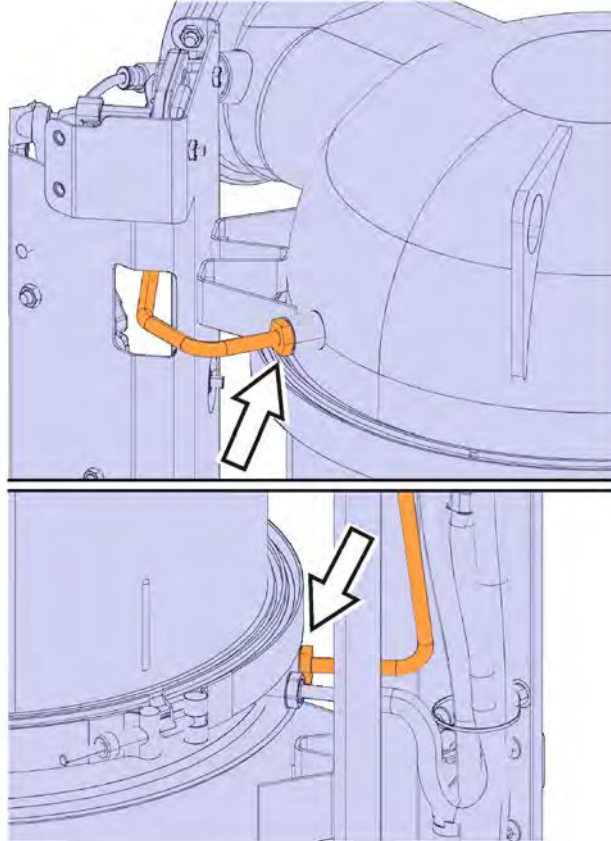
W2071591

- 16 Using help as needed lift DPF and swing away from the exhaust aftertreatment system rack. Place DPF in a secure location using support stand (85111327) prior to removing the hoist.



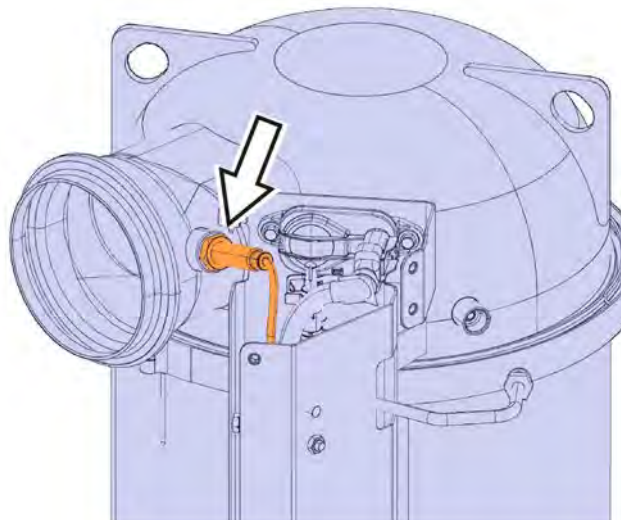
W2071592

17 Loosen the differential pressure sensor pipe fittings from the DPF.



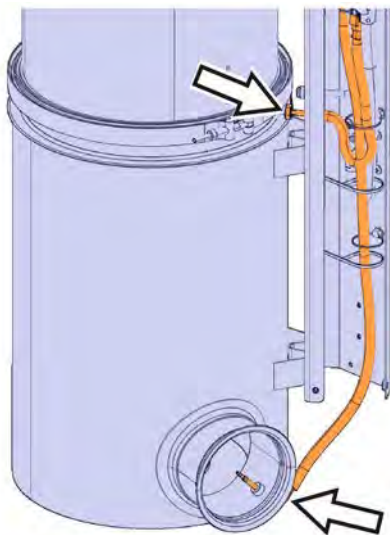
W2071593

18 Remove the NOX sensor from the DPF outlet and position out of the way.



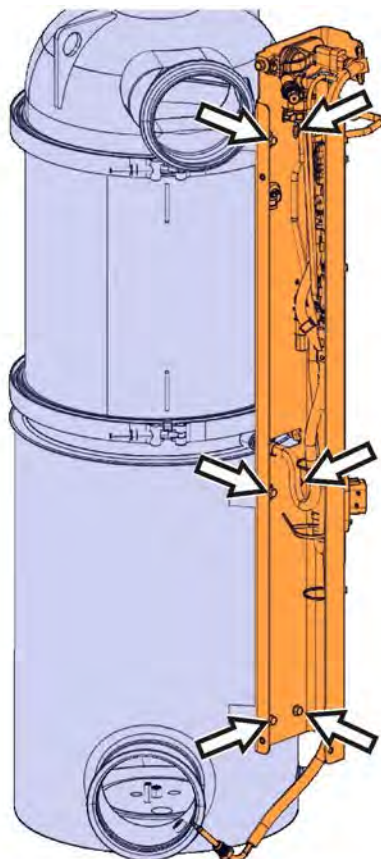
W2071594

19 Remove the DPF inlet and outlet temperature sensors and position out of the way.



W2071595

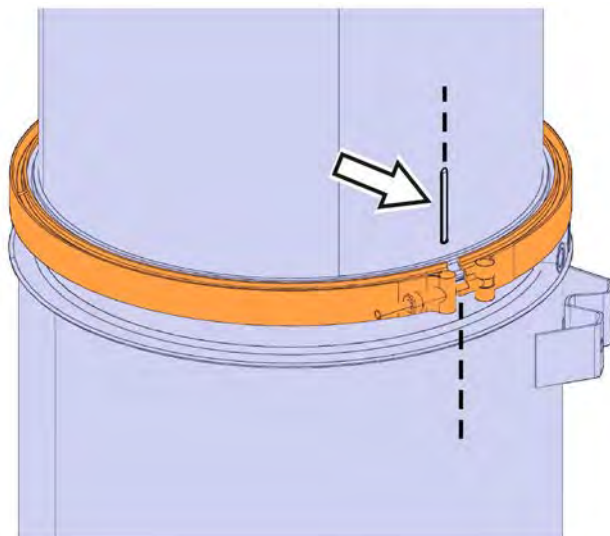
20 Remove the DPF wiring harness raceway bracket with the wiring and sensors attached.



W2071596

- 21 Remove the DPF V-band clamp between the DPF burner and DPF filter. Discard old V-band clamp.

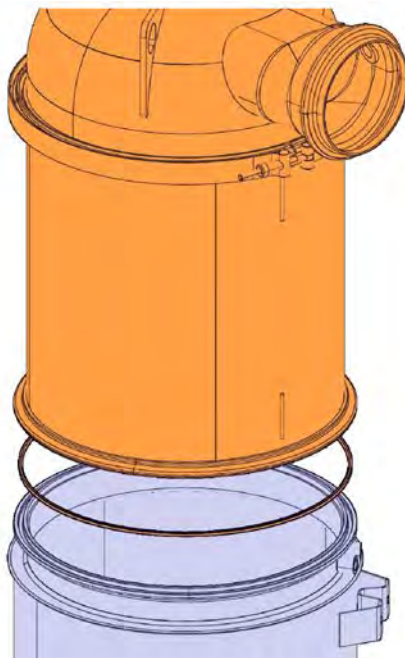
Note: Note the location of the alignment indicator on the DPF filter for proper V-band clamp orientation during installation.



W2071597

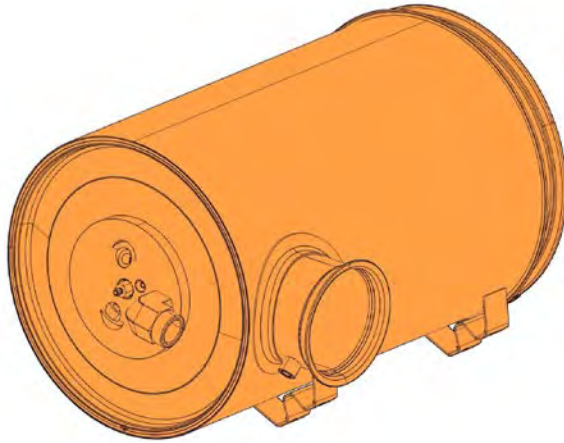
- 22 Separate the DPF filter from the DPF combustion module and place filter in a secure location.

Note: Discard old gasket.



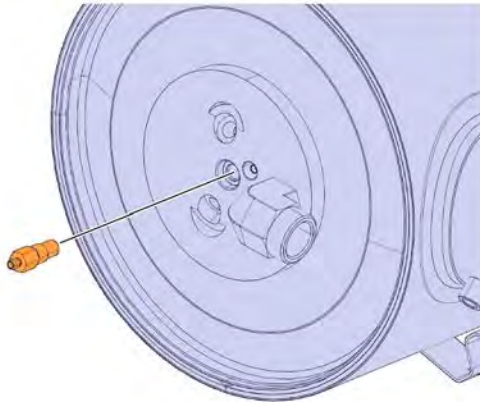
W2071598

- 23 Remove the old DPF combustion module from the DPF support stand (85111327) and position it on its side.



W2071599

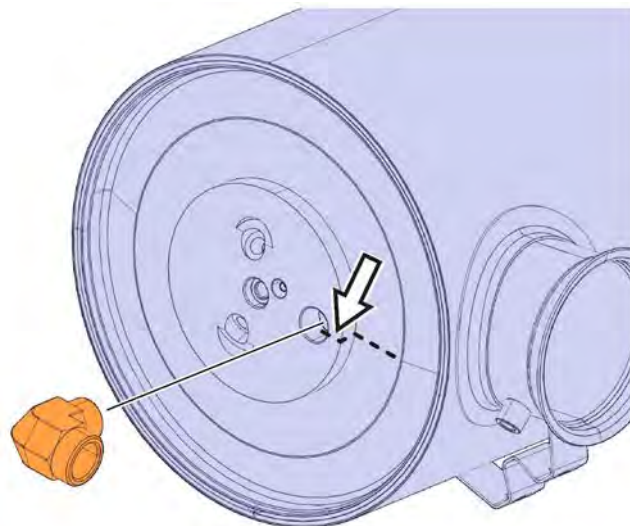
- 24 Remove the fuel nozzle from the old DPF combustion module.



W2071600

25 Remove the combustion air inlet pipe elbow fitting from the combustion module.

Note: Mark the position of the combustion air inlet pipe elbow for installation on the new combustion module.



W2071601

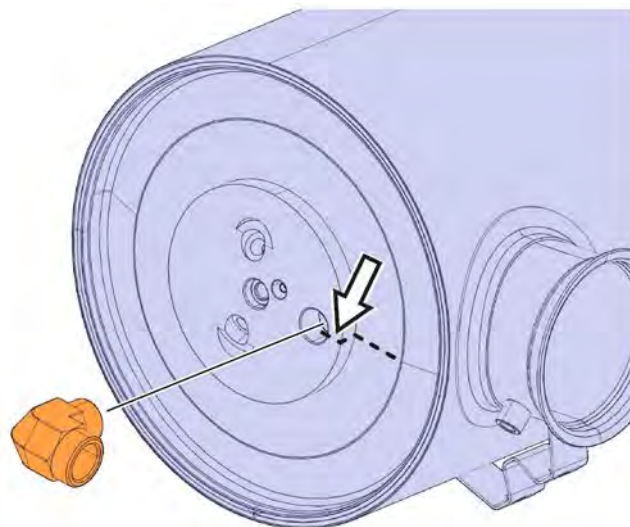
26 Unpack the replacement DPF combustion module (21797816).

27 Clean the exhaust pipe mounting surfaces and the DPF filter sealing surface.

28 Transfer the position markings from the old combustion module to the new combustion module.

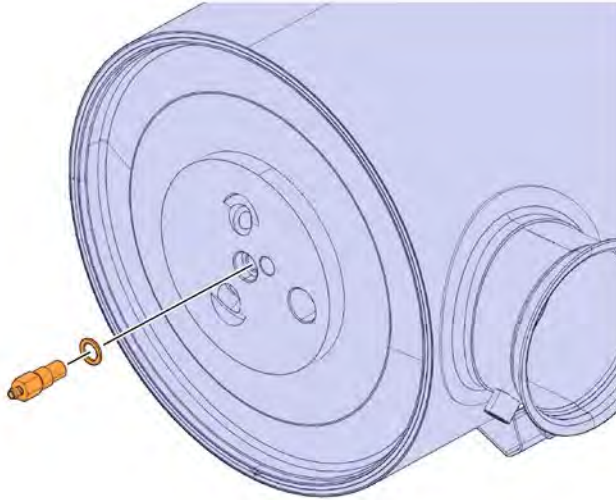
29 Apply thread sealant to the air inlet pipe elbow.

30 Install the combustion air inlet pipe elbow fitting in the same position.



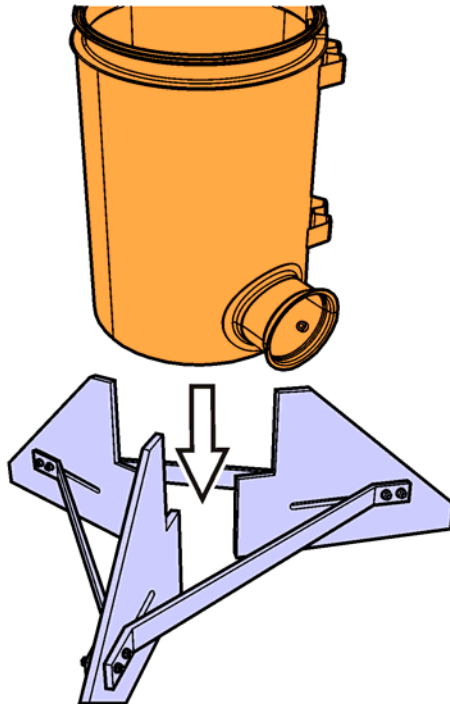
W2071601

- 31 Using a new sealing gasket (21048677), install the fuel nozzle into the replacement DPF combustion module.



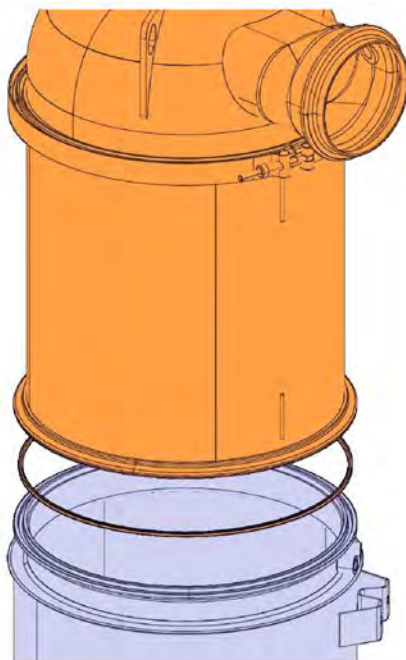
W2071602

- 32 Position the replacement DPF combustion module into DPF support stand (85111327).



W2071603

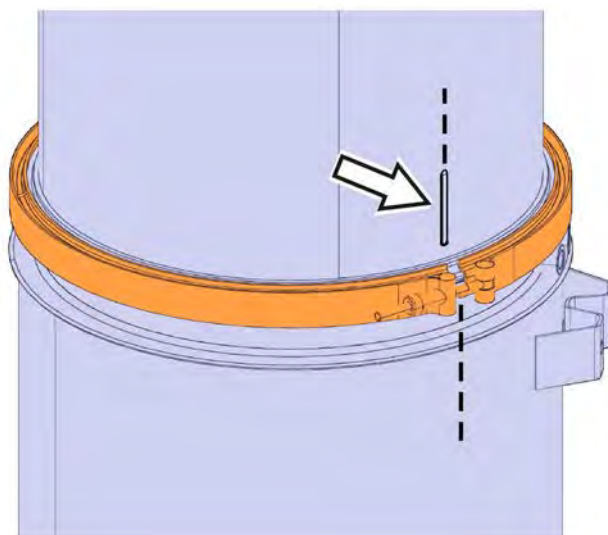
- 33 Using a new gasket (21424458), install the DPF filter on top of the DPF combustion module.



W2071598

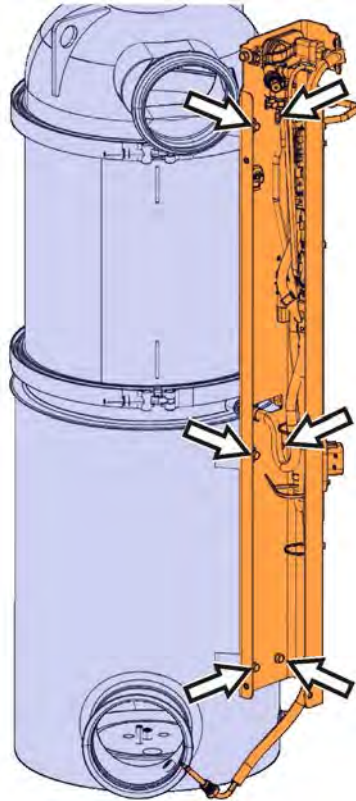
- 34 Install a new V-band clamp (21048521) and tighten to 20 ± 3 Nm (180 ± 24 in-lb).

Note: Use alignment indicator to aid in the proper alignment of the DPF modules and V-band clamp.



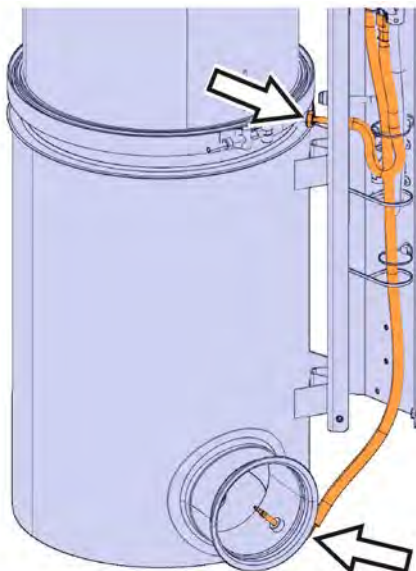
W2071597

35 Install the DPF wiring harness raceway bracket with the wiring and sensors attached.



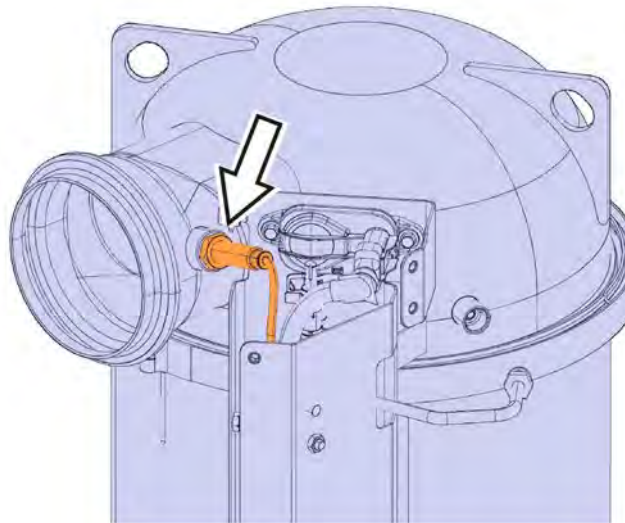
W2071596

36 Install the DPF temperature sensors.



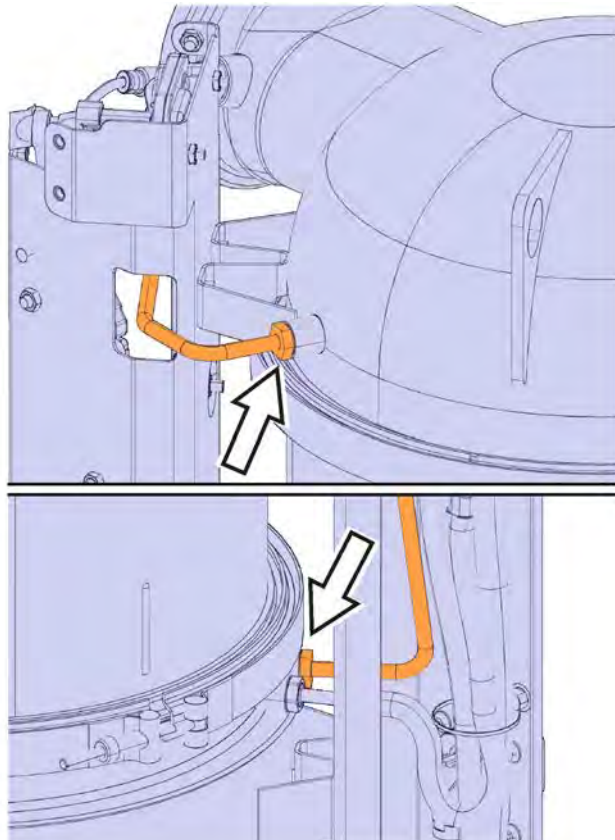
W2071595

37 Install the NOX sensor into the DPF outlet.



W2071594

38 Assemble and Tighten the differential pressure sensor pipe fittings to the DPF assembly.

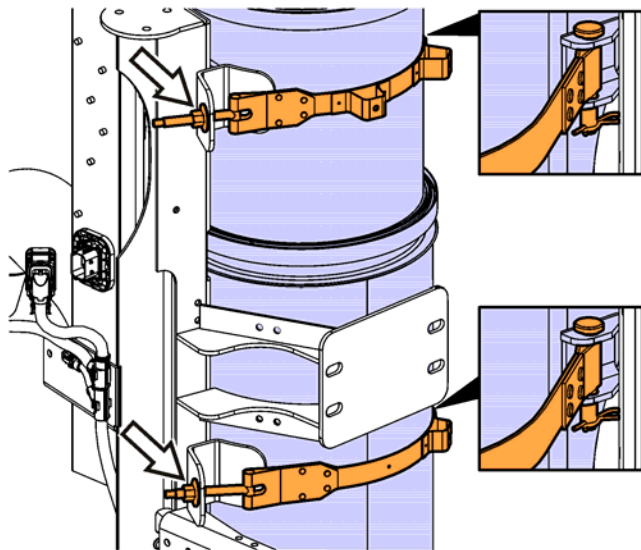


W2071593

39 Connect the hoist to the DPF assembly. Using help as needed, position the DPF assembly on the exhaust aftertreatment system rack. Install the DPF band clamps and clevis pins.

Note: Use the DPF heat shield as a guide for the alignment of the DPF and V-band clamps.

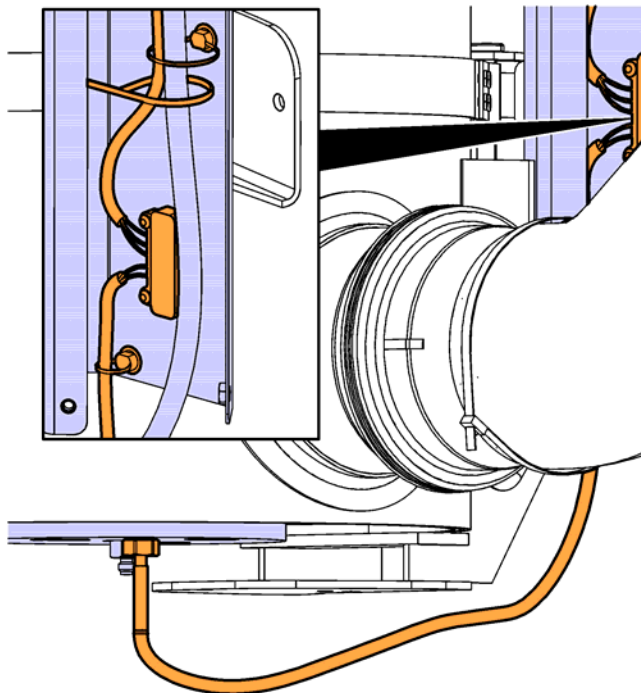
40 Tighten DPF mounting straps to 44 ± 4 Nm (33 ± 3 ft-lb).



W2071591

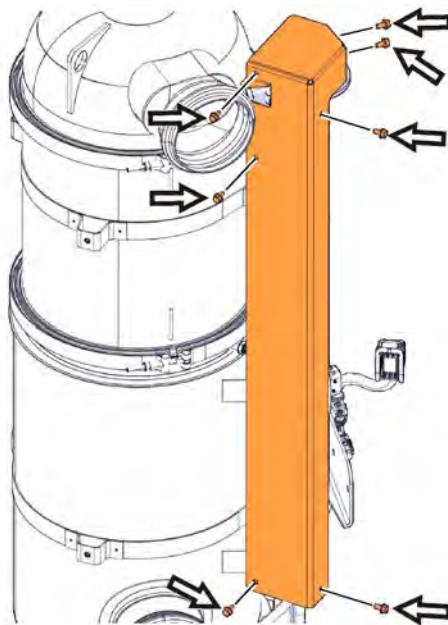
41 Remove hoist.

42 Install DPF burner temperature sensor and module.



W2071590

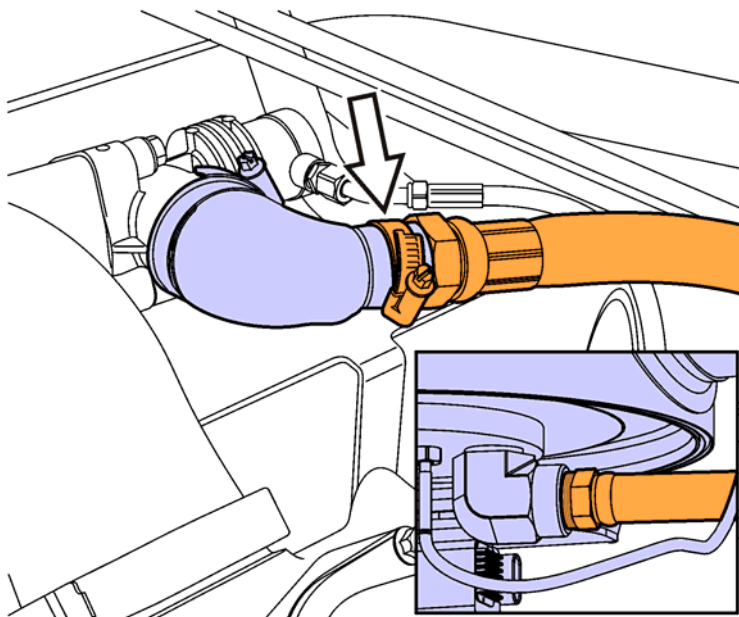
43 Install raceway cover and tighten fasteners to 10 ± 1.5 Nm (14 ± 2 in-lb).



W2071589

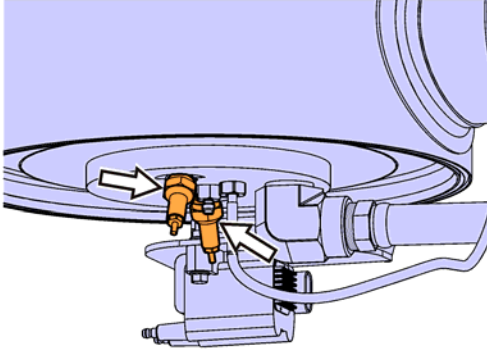
44 Connect the DPF combustion airline to the combustion air valve and combustion air inlet pipe elbow fitting

Note: Apply thread sealant to air line end connecting the air inlet pipe elbow fitting.



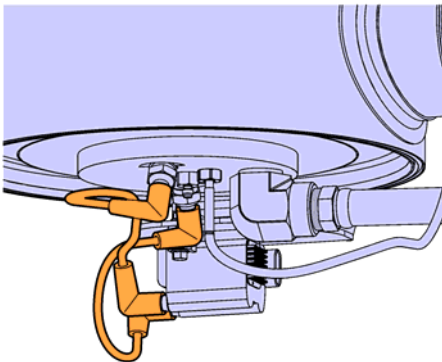
W2071588

45 Install the DPF igniters.



W2071587

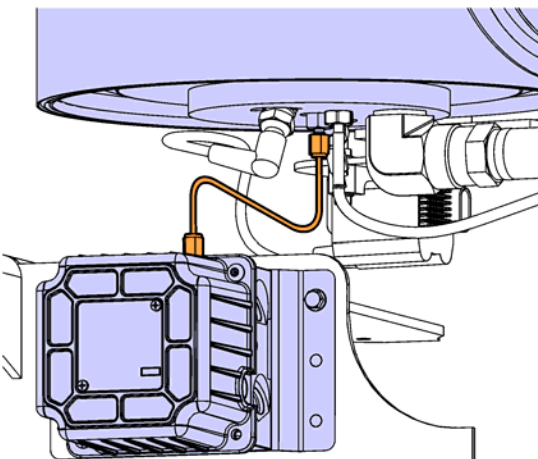
46 Install the igniter plug wires.



W2071586

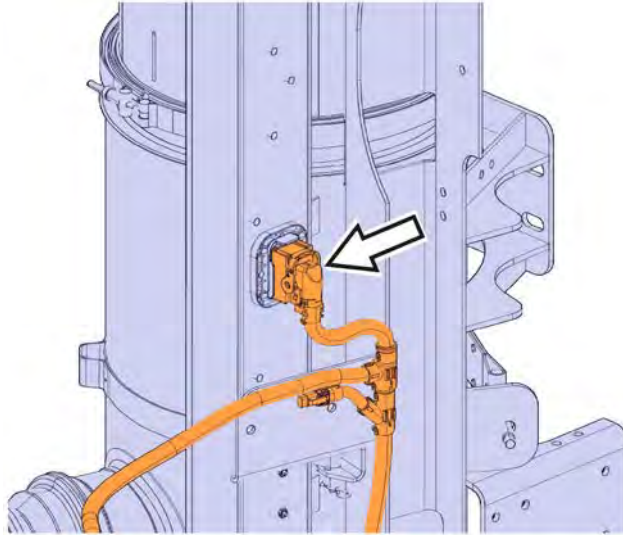
47 Connect and hand tighten the DPF fuel line to the atomization module and burner nozzle.

48 Using a wrench, tighten fuel line connections one 3/4 turn.



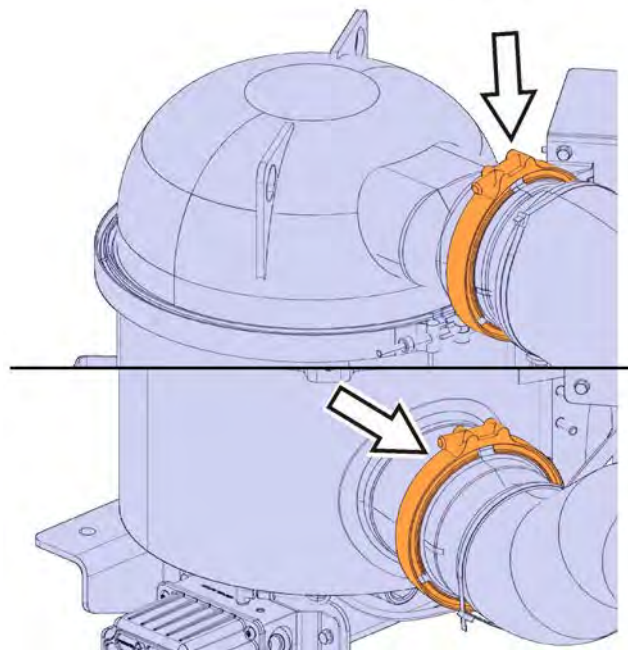
W2071585

49 Connect the main body harness connector to the DPF assembly.



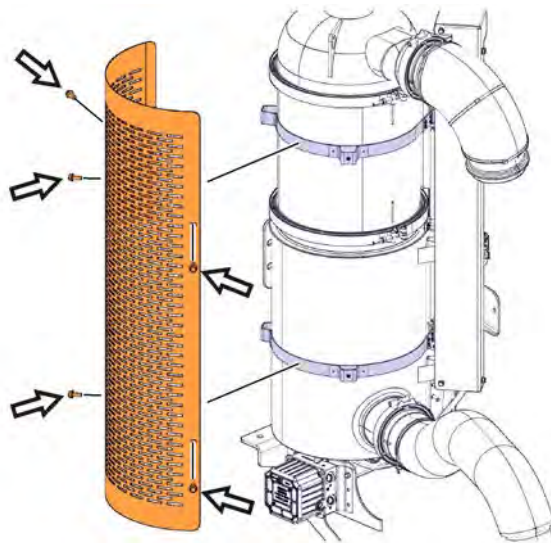
W2071584

50 Install new gaskets (21095726) on DPF inlet and outlets. Install new V-band clamps (21021850) and tighten to 81 ± 0.5 Nm (60 ± 5 in-lb).



W2071583

51 Install DPF heat shield and tighten fasteners to 24 ± 4 Nm (18 ± 3 ft-lb)



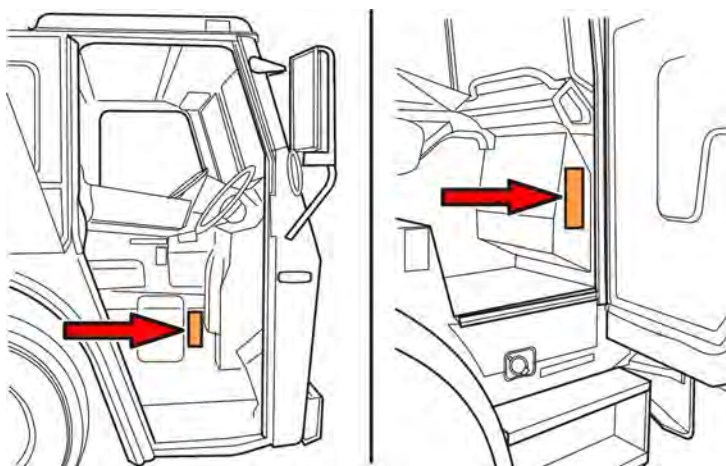
W2071582

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

53 Lower cab

54 Check for proper operation, Check for leaks, and Clear DTC's.

Note: To signify that the campaign has been completed, using a permanent-type marker (such as a Sharpie®) to write the campaign number (PI0772) and completion date in the spaces provided on the Campaign Completion label located inside the cab as shown in the illustration below. If a label is not already affixed inside the cab, 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.



W0037061

Reimbursement

This repair is covered by an authorized Service Program. Reimbursement is obtained via the normal claim handling process.	
Claim Type (used only when uploading from the Dealer Bus. Sys.)	B
Recall Status	
Vehicle inspected, repair not required	1- Inspected OK
Vehicle repaired per instruction	2- Modified per instruction
Labor Code	
Primary Labor Code	2351T-26-96 1.7 hrs.
Time to take charge and determine campaign status	101AA-0A-00 0.3 hrs.
Causal Part	21707560
Authorization Number	PI0772
Expiration Date	10 NOV 2012

Note: Take Charge Time is not included in the Labor Code for this operation. Take charge may be eligible but can only be used once per repair visit. If vehicle is having other warranty repairs performed, take charge should be charged to the warranty repair, otherwise take charge can be charged to this service program.