



EMISSIONS RECALL

ID No. AB5R0*
Release Date 11-11-2025

AB5R0* EMISSIONS RECALL

SUBJECT VEHICLES

All 2018-2021 model year Hino Conventional trucks.

IMPORTANT NOTE

This Recall Repair Procedure applies to Campaigns **AB5R01**, **AB5R02**, **AB5R03**, **AB5R04**, **AB5R05** and **AB5R06**. This emissions recall repair involves kits applicable to six different vehicle specifications, each controlled by a campaign number. Also, campaign numbers are assigned based on the Vehicle Identification Number (VIN). To ensure the correct procedure is followed, please verify the correct campaign number using the Hinonet/Warranty Inquiry system and refer to the table on page 3 to confirm that the correct parts kit has been received.

Warranty Enquiry

VIN: JHHSDM2H8LK010899

Search

OUTSTANDING CAMPAIGNS

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Vehicle

Warranty Claims

HinoCare Claims

Campaigns

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HinoCare

WEP

Campaign #	Campaign Type Description	Multiple Claims Allowed	Campaign Status	Campaign Description
AB5S01	RECALL/EMISSIONS	No	Outstanding	EM.MOD J05 REG.CAB

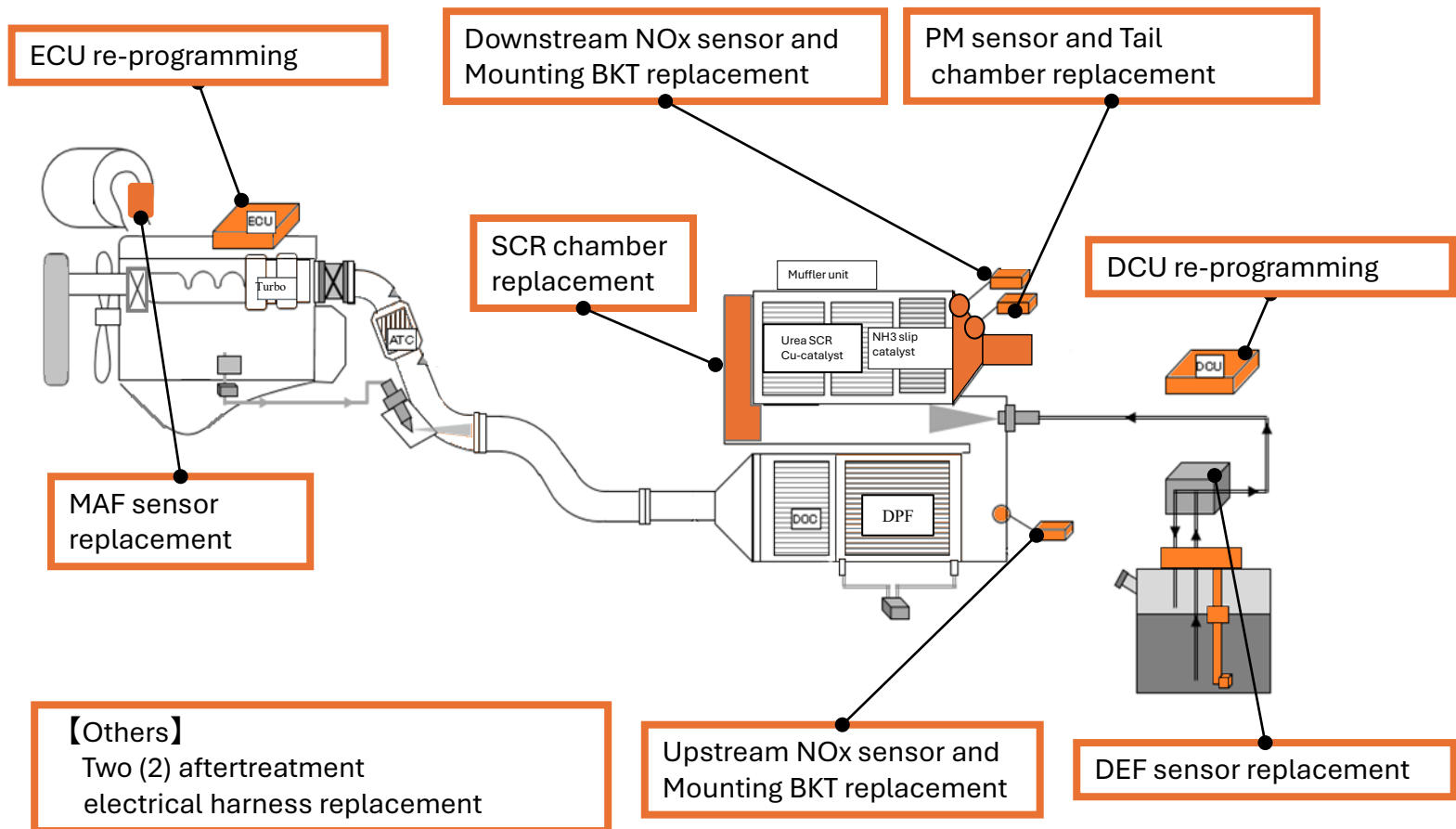
1 - 1 of 1 items

OVERVIEW

To improve the Emission Control System and On-Board Diagnostic (OBD) System, Hino will perform the modifications below:

- Re-programming software for Engine Control Unit (ECU) and Dosing Control Unit (DCU)
- Replacing NOx sensors, PM sensor, , Deisel Exhaust Fluid (DEF) sensor and Mass Air Flow (MAF) sensor
- Replacing Tail Chamber and SCR Chamber
- Replacing related harnesses

SYSTEM OVERVIEW





AB5R0* EMISSIONS RECALL

BEFORE YOU BEGIN

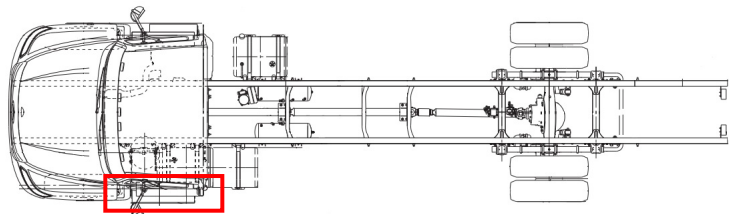
- Read and understand all instructions and procedures before you begin the work.
- Read and follow all **WARNINGS** and **NOTICES** set forth in this publication. These alerts help to avoid damage to components, serious personal injury, or both.
- Park the vehicle on a flat, level and solid surface.
- Place the gear shift lever in “Neutral” (Allision 3000 series) or “Park” position.
- Apply the parking brake firmly and confirm parking brake activation.
- Turn off the engine and remove the key from the ignition switch.
- Always wear safety glasses or goggles to protect your eyes.
- Place wheel chocks in front of and behind all the wheels to prevent the vehicle from moving.

PARTS

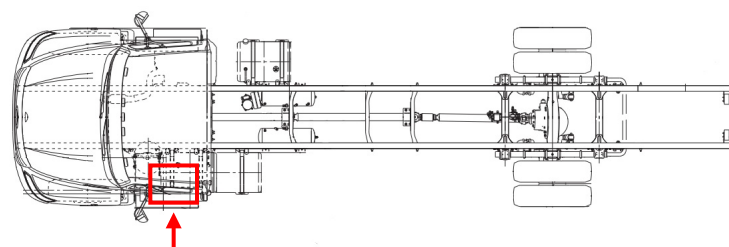
CAMPAIGN NUMBER	KIT PART NUMBER	APPLICATION
AB5R01	HN001234344	2018-2020 MY 230HP (without Spring Seat Replacement)
AB5R02	HN001234343	2018 -2020 MY 260HP
AB5R03	HN001234346	2018-2019 MY 230HP (with Spring Seat Replacement)
AB5R04	HN001234348	2021 MY 260HP
AB5R05	HN001234349	2021MY 230HP (without Spring Seat Replacement)
AB5R06	HN001234345	2018-2019 MY 230HP (Low Pro With Spring Seat and Brake Hose Replacement)

REPAIR PROCEDURE

1. Remove and retain the ten bolts securing the driver side upper step.
Remove and retain the upper step.



2. Disconnect the negative battery cables.



View photo 2



Photo 2

3. Remove and retain the five bolts securing the passenger side splash shield.
Remove and retain the splash shield.

View photo 3

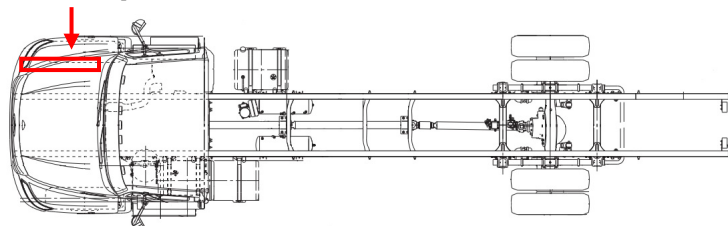
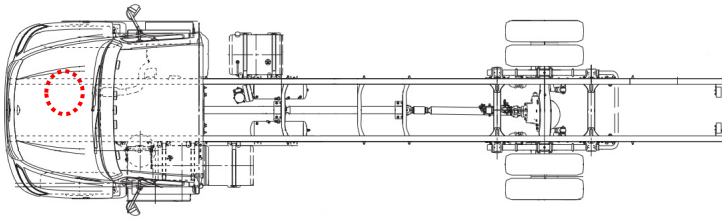


Photo 3

REPAIR PROCEDURE

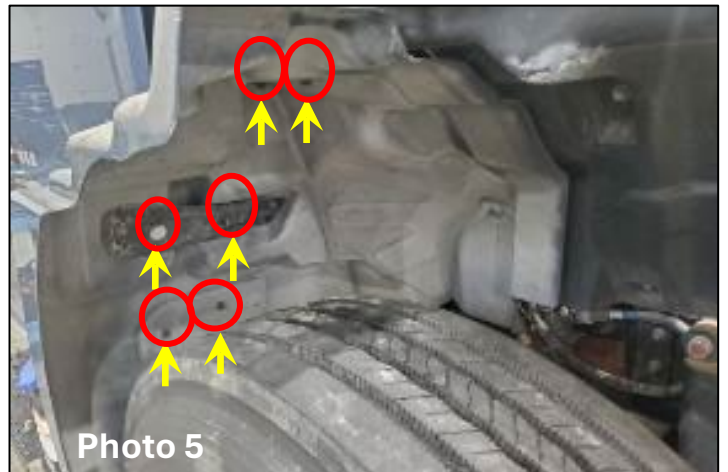
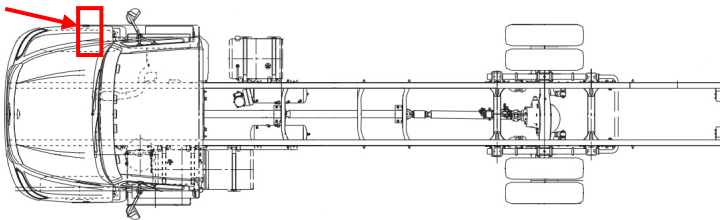
4. Locate the coolant drain plug on the passenger side of the engine. Loosen the plug and remove the radiator cap to drain the engine coolant into a suitable container from radiator drain valve.



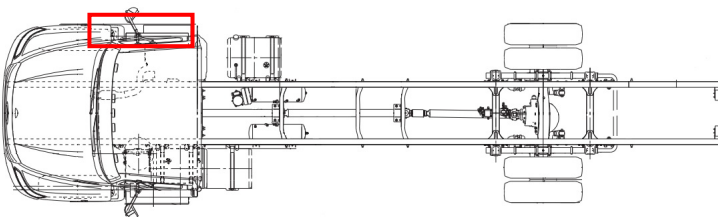
WARNING: Ensure the engine coolant has cooled to ambient temperature. Opening the cooling system when hot may cause severe personal injury due to scalding.

5. Remove and retain the six bolts and the nut securing the passenger side fender. Remove and retain the fender.

View photo 5



6. Remove and retain the four bolts securing the passenger side upper step. Remove and retain the step.

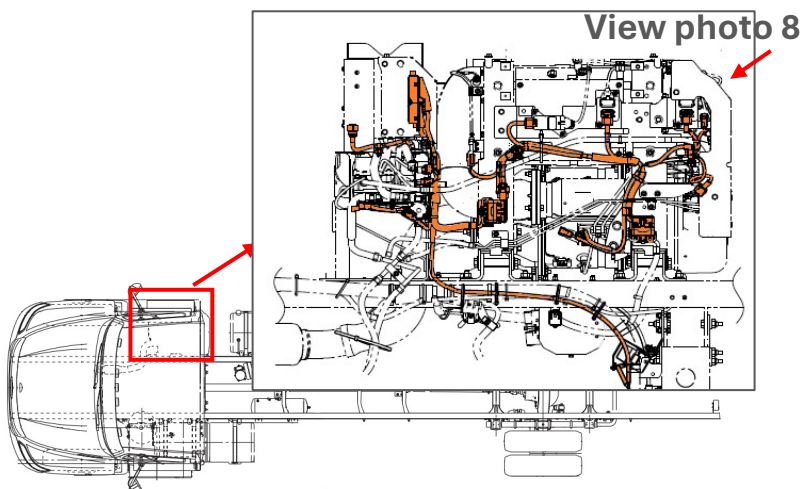
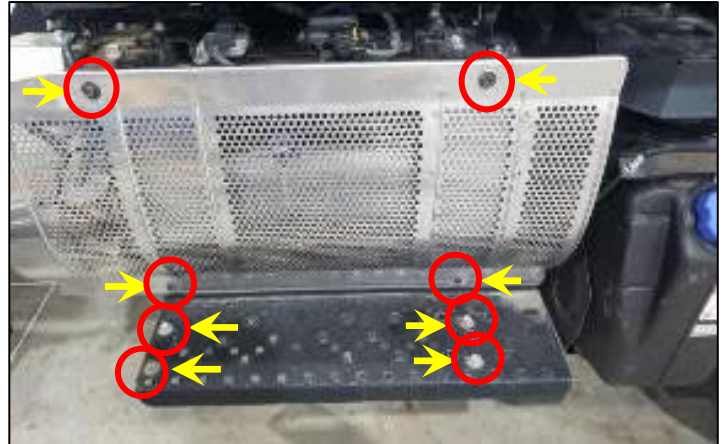


REPAIR PROCEDURE

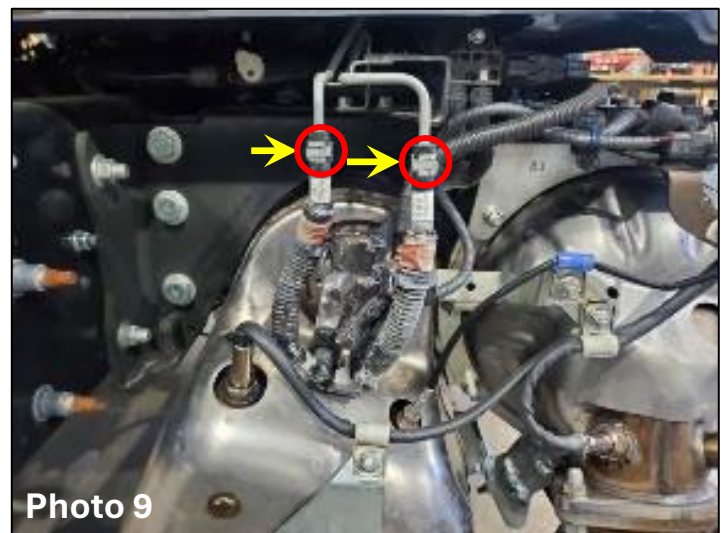
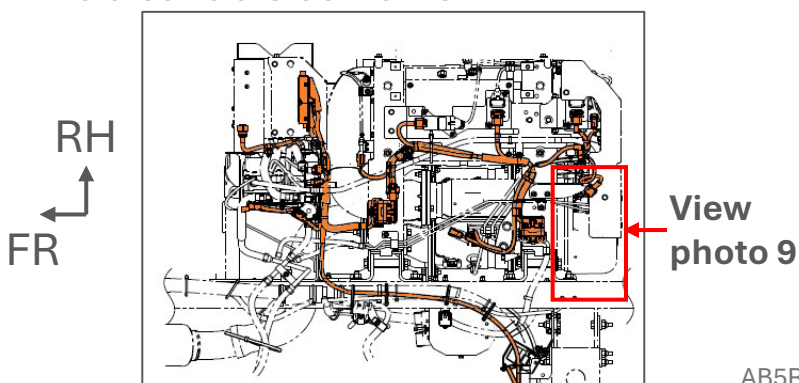
7. Remove and retain the four bolts securing the passenger side lower step and the four bolts securing the SCR cover. Remove and retain the step and SCR cover.

WARNING : Ensure the step is sufficiently cool and be careful not to burn yourself.

8. Remove and retain the two bolts and the nut securing the splash shield. Remove and retain the splash shield.



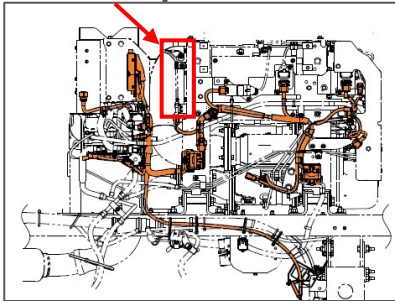
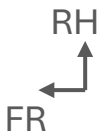
9. Release and retain the clamps and disconnect the two coolant hoses from the DEF injector. Drain remaining coolant into a suitable container.



REPAIR PROCEDURE

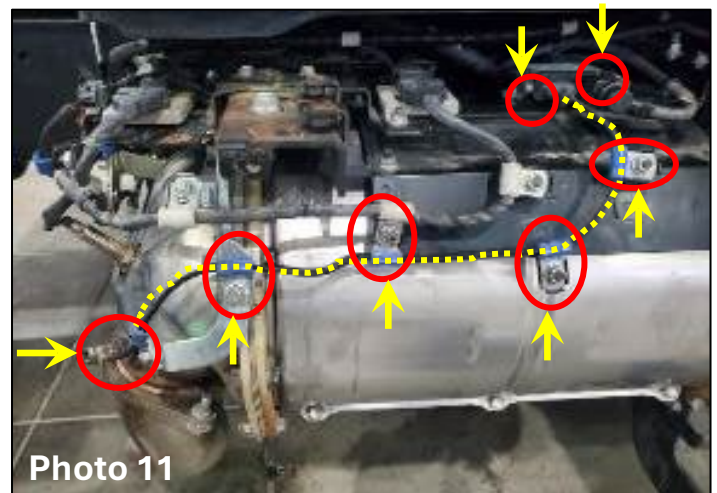
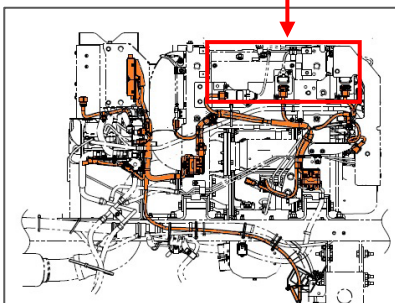
10. Disconnect the SCR inlet temperature sensor wiring harness connector. Remove and retain the nut securing the P-clip. Remove and retain the temperature sensor.

View photo 10

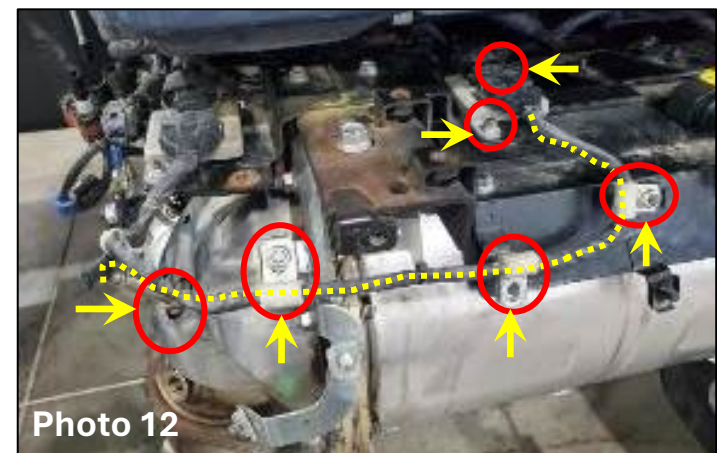


11. Remove and discard the two nuts securing the PM sensor. Remove and discard the five nuts securing the P-clips. Remove the sensor probe. Disconnect the wiring harness connector and remove and discard the PM sensor.

View photo 11 & 12



12. Remove and discard the two nuts securing the downstream NOx sensor. Remove and discard the three nuts securing the P-clips. Remove the sensor probe. Disconnect the wiring harness connector and remove and discard the NOx sensor.



REPAIR PROCEDURE

13. Remove and discard the two nuts securing the upstream NOx sensor. Remove and discard the two nuts securing the P-clips. Remove the sensor probe. Disconnect the wiring harness connector and remove and discard the NOx sensor.

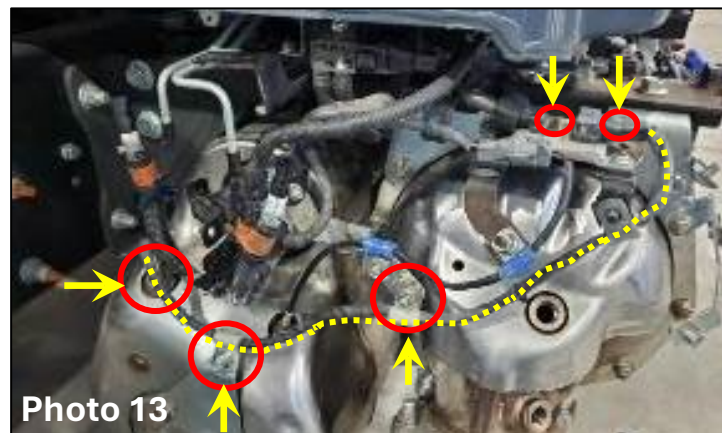
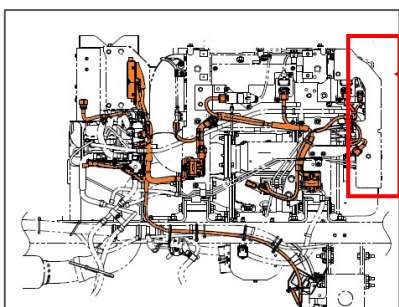


Photo 13

View
photo 13 & 14

RH
FR



14. To replace tail chamber, disconnect the DPF outlet temperature sensor wiring harness connector. Remove and retain the two nuts securing the P-clips.

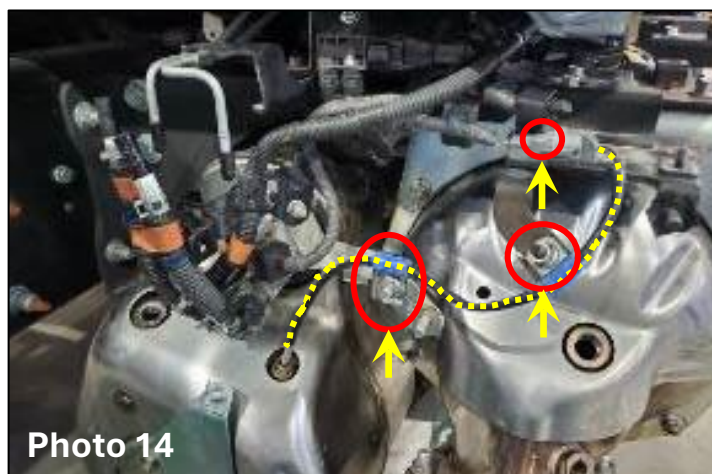


Photo 14

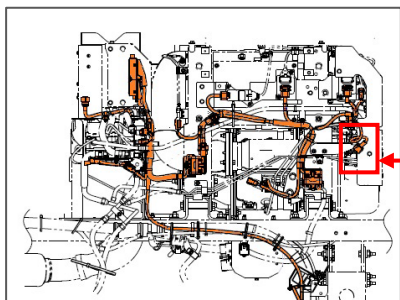
15. Release the two clamps and disconnect the differential pressure sensor hoses.



Photo 15

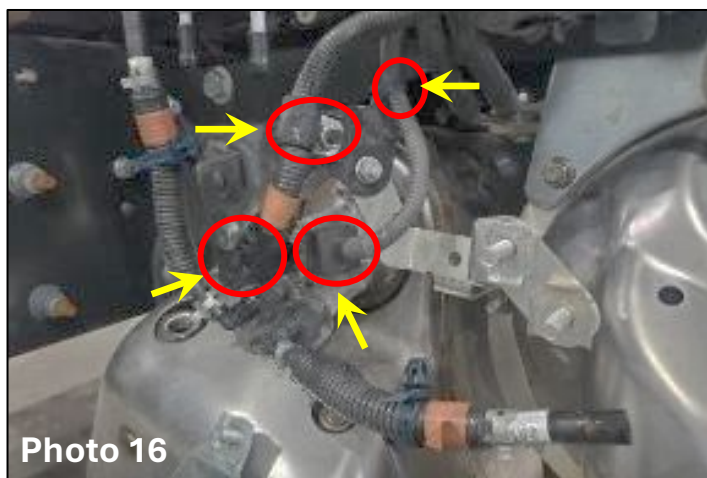
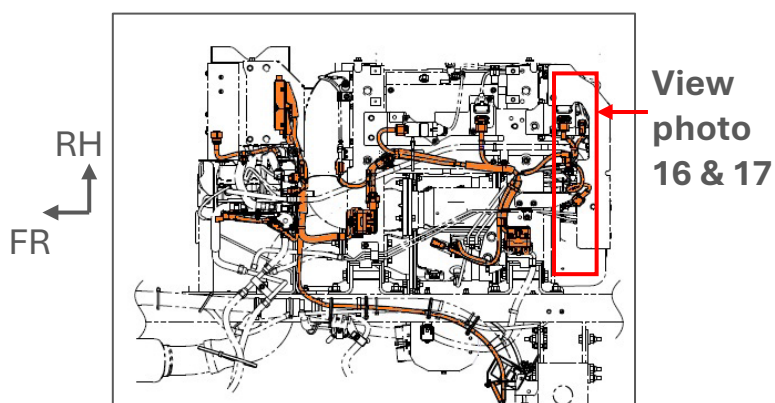
View
photo 15

RH
FR



REPAIR PROCEDURE

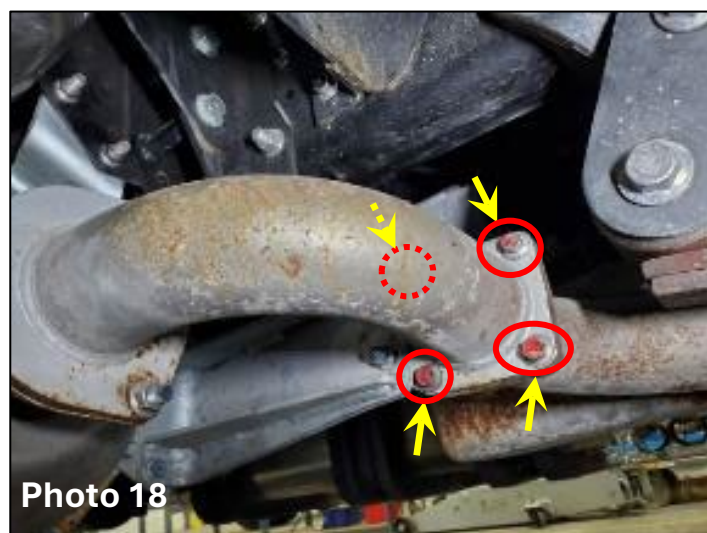
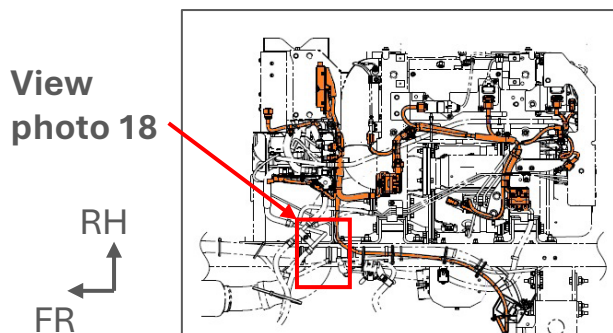
16. Disconnect the DEF injector wiring harness connector and remove the wiring harness clamp. Remove and retain the nut securing the P-clip. Disconnect the DEF supply line from the DEF injector.



17. Remove and discard the two bolts and nuts securing the tail pipe. Remove and retain the tail pipe and discard the gasket.

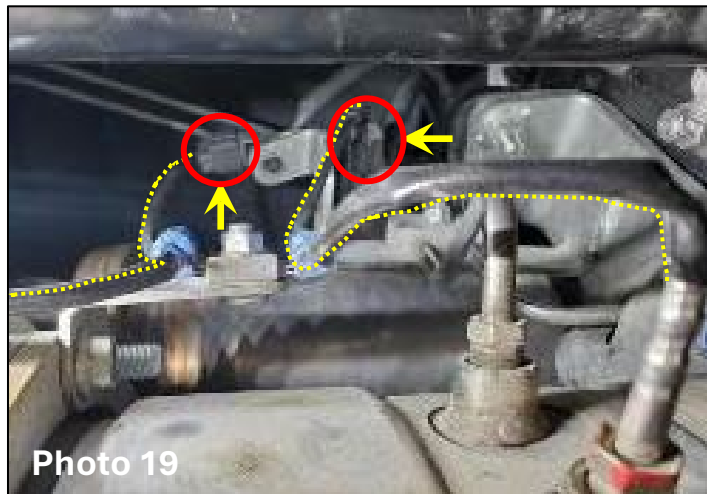
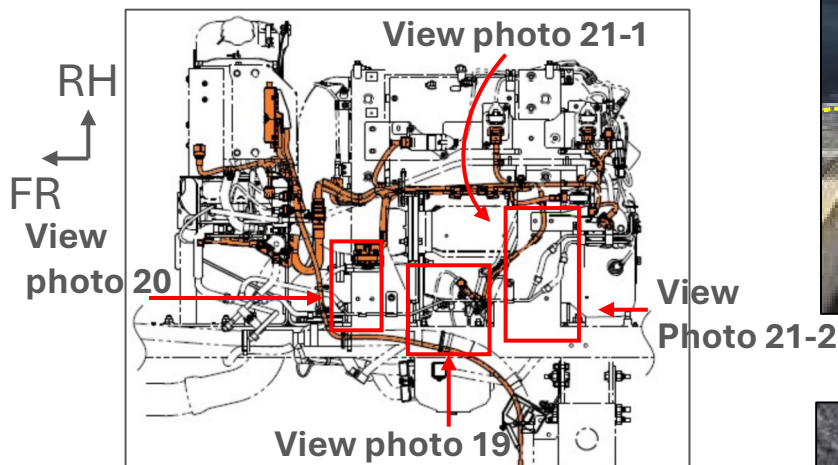


18. Remove and discard the four bolts and nuts securing the exhaust pipe just before DOC inlet. Discard the gasket.



REPAIR PROCEDURE

19. Disconnect the DOC inlet and the DPF inlet temperature sensor wiring harness connectors. Remove the wiring harness connectors from the bracket.

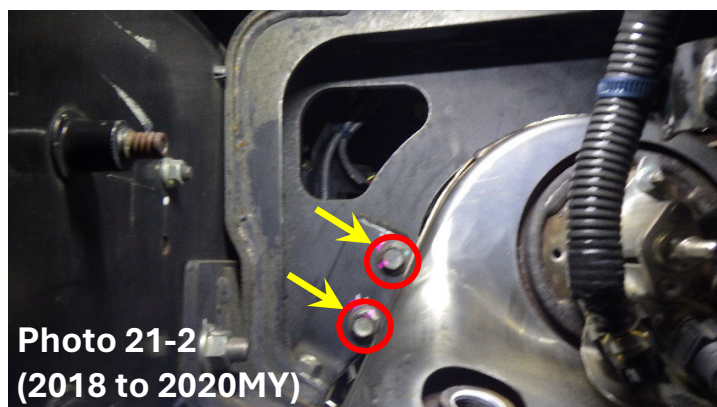
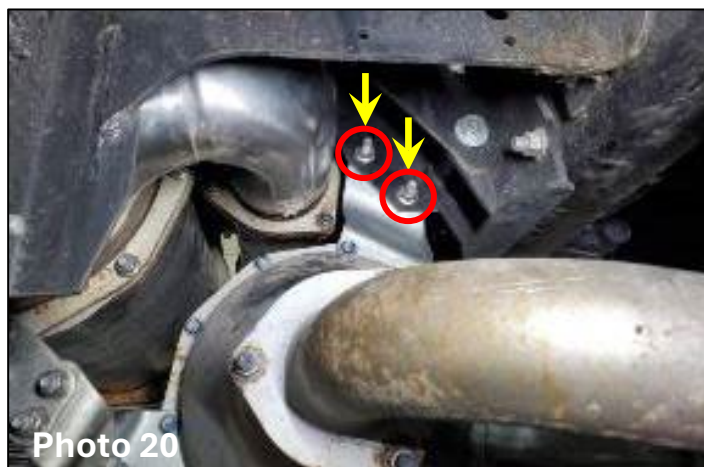


20. Remove and retain the two bolts and nuts securing the DOC to the frame bracket.

NOTICE: 2021 model year shown. 2018 to 2020 model year similar.

21. Remove and retain the two bolts securing the DPF to the frame bracket.

NOTICE: Location varies by model year. 2021 MY location is photo21-1, 2018 to 2020 MY location is photo21-2 near the DEF injector.



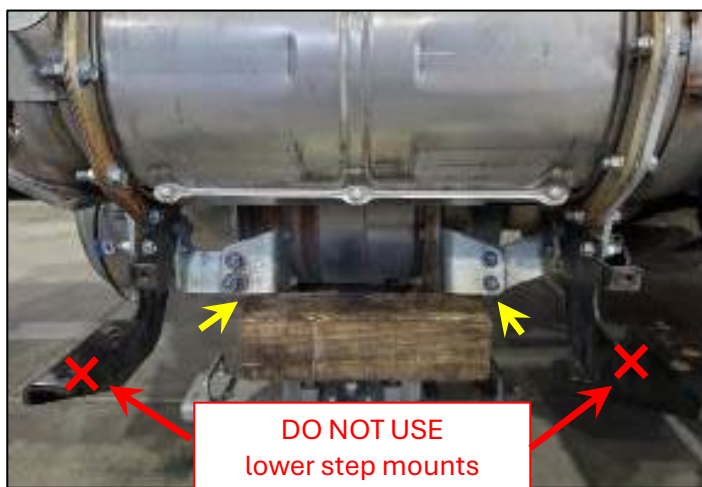
REPAIR PROCEDURE

22. Place a jack under the DPF / SCR assembly. Support the assembly with a block of wood and secure to the jack.

WARNING: Ensure the DPF / SCR assembly is stable on the jack.



NOTICE: Do not support the assembly by the lower step mounts.

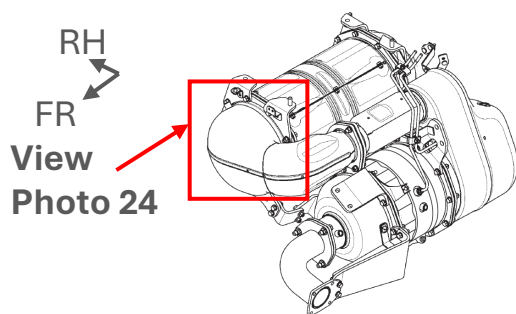


23. Remove the two bolts and the two nuts securing the DPF / SCR assembly to the frame brackets. Carefully lower and remove the assembly from the vehicle.

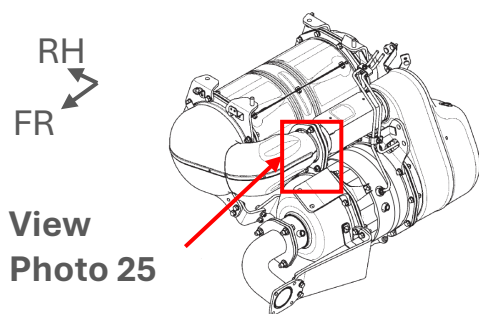


REPAIR PROCEDURE

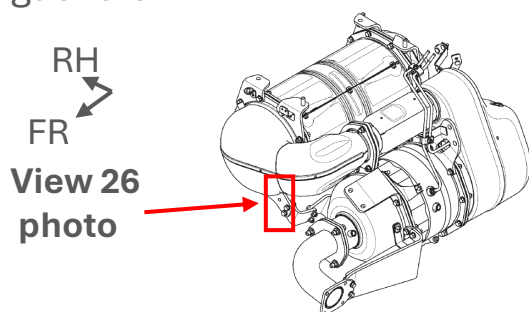
24. Remove and discard the ten bolts and nuts securing the SCR mixing chamber to the SCR. Remove and discard the SCR mounting brackets.



25. Remove and discard the three bolts and nuts securing the SCR mixing chamber to the pipe.

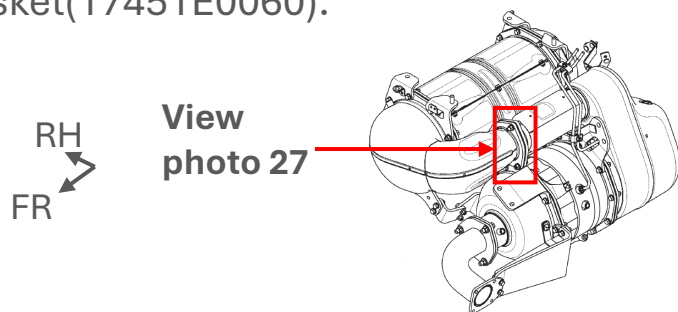


26. Loosen but do not remove the two bolts and nuts securing the SCR support bracket to the DOC. Remove and discard the SCR mixing chamber and the two gaskets.



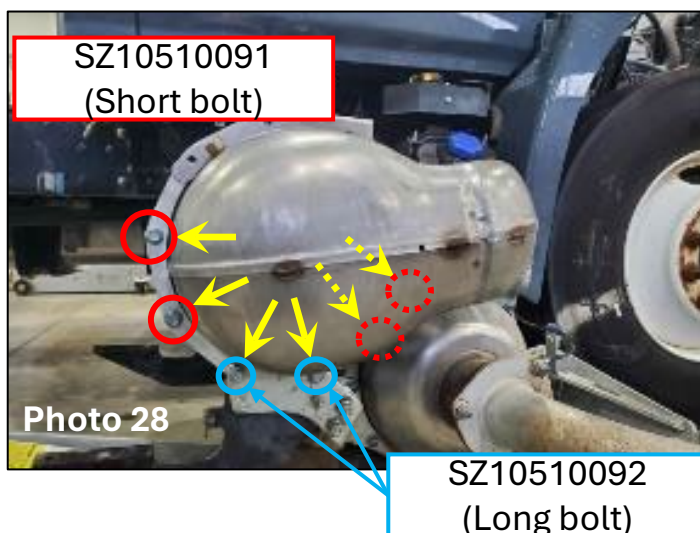
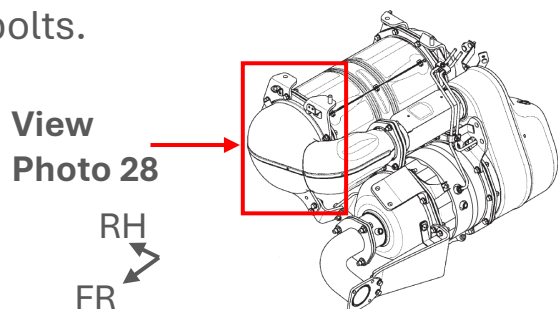
REPAIR PROCEDURE

27. Install the supplied bolt retainer plate (17537E0850) and the exhaust pipe gasket(17451E0060).

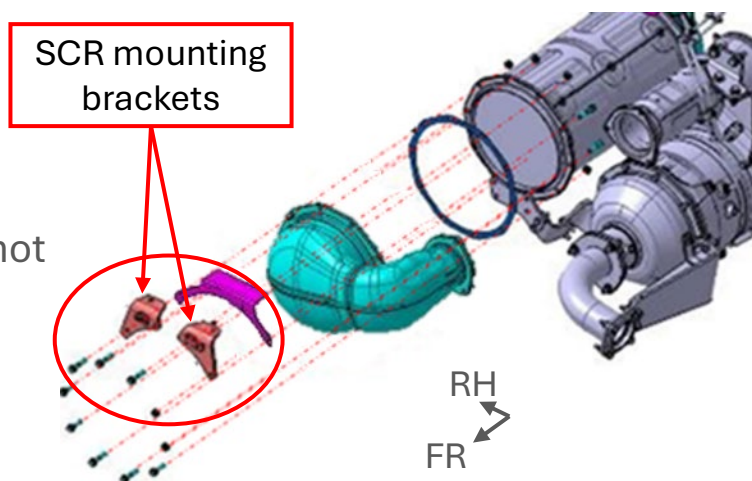


28. Install the supplied SCR mixing chamber (S1809E0031) and gasket(17451E0060). Install but do not tighten the six supplied bolts(SZ10510091,SZ10510092) and nuts (SZ17810007) in the locations shown.

NOTICE: There are two different length bolts.



29. Install the supplied SCR mounting brackets(17505E0N80,17505E0N90) and heat shield (17551E0F10). Install but do not tighten the four supplied bolts (SZ10510092) and nuts (SZ17810007).



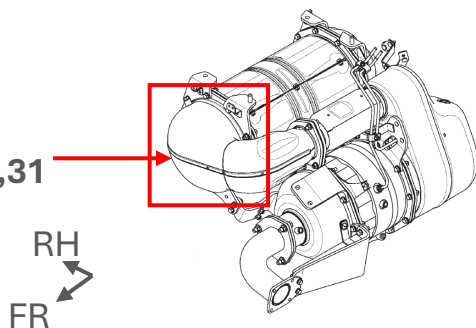
REPAIR PROCEDURE

30. Install the supplied bolt (SZ10510091) and three supplied nuts (SZ17810007) to the exhaust pipe flange. Tighten all fifteen bolts and nuts to the specified torque.

Specified Torque: 52 ft-lb (70 Nm)



**View
Photo 30,31**

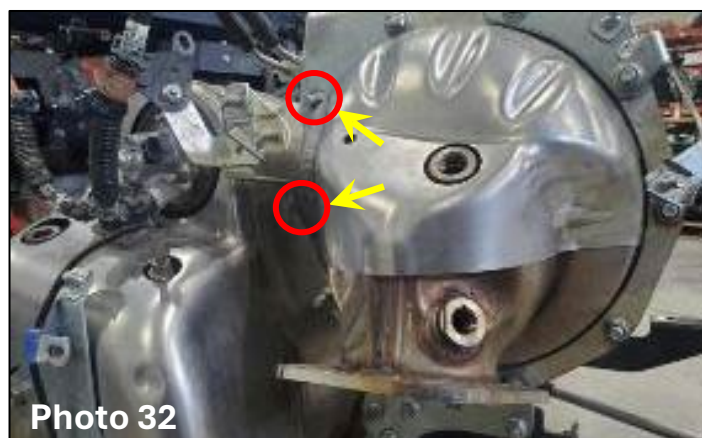
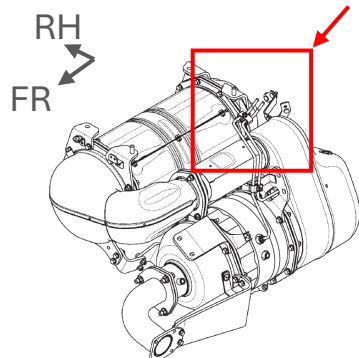


31. Remove and retain the nut securing the pipes to the SCR mounting bracket.



32. Remove and discard the two bolts and nuts securing the wiring harness bracket. Remove and retain the bracket.

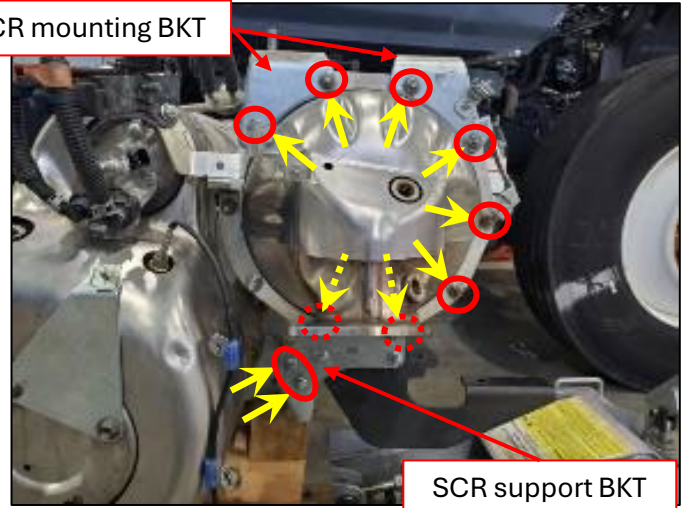
**View
Photo 32**



REPAIR PROCEDURE

33. Remove and discard the remaining eight bolts and nuts securing the SCR outlet housing. Loosen the two bolts and nuts securing the SCR support bracket. Remove and discard the SCR mounting brackets, the outlet housing, the housing flange and the gasket.

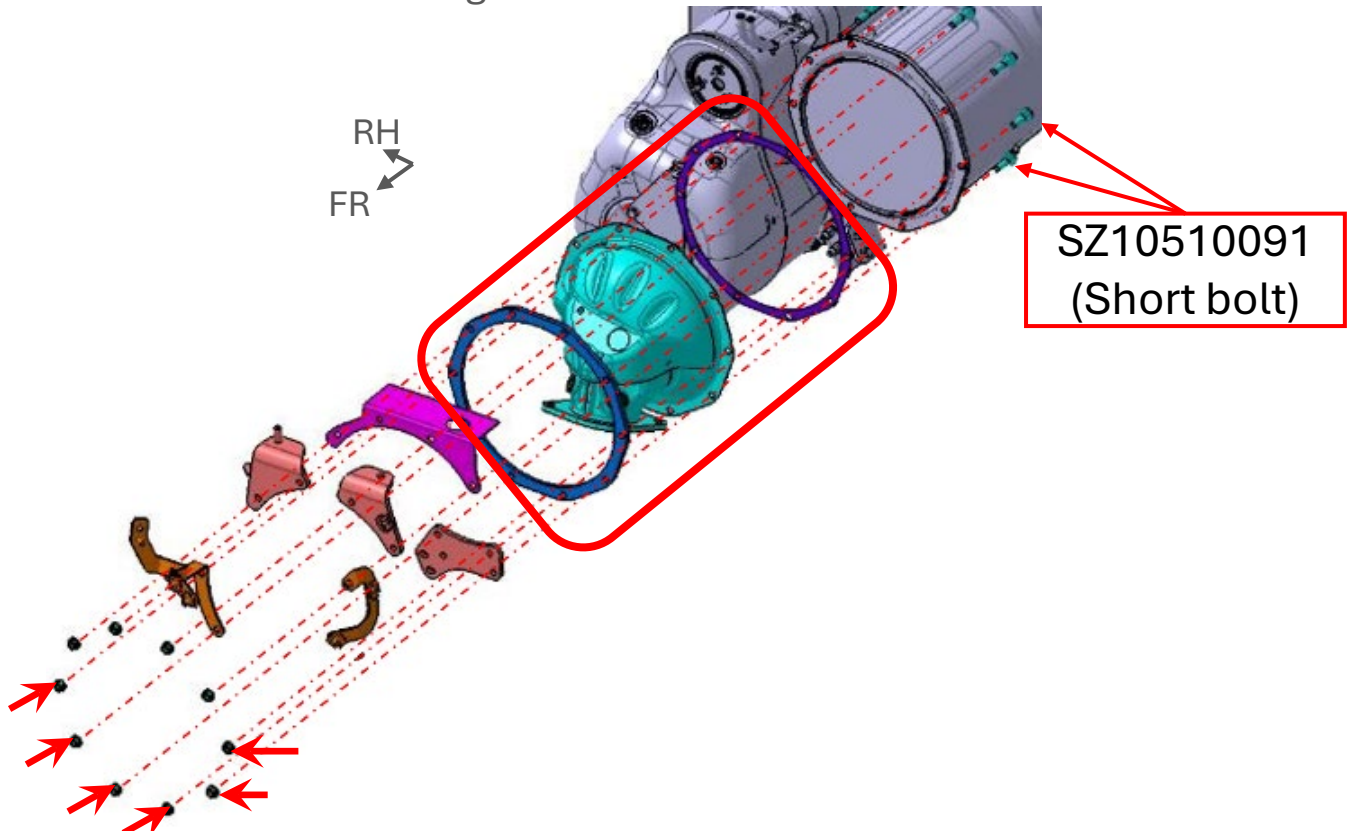
SCR mounting BKT



SCR support BKT

34. Install the supplied SCR outlet housing (S180AE0180), the housing flange (17441E0250), the gasket (17451E0060) and the wiring harness bracket removed in Step 32. Install but do not tighten the six supplied bolts (SZ10510091, SZ10510092) and nuts (SZ17810007) in the locations shown.

NOTICE: There are two different length bolts.

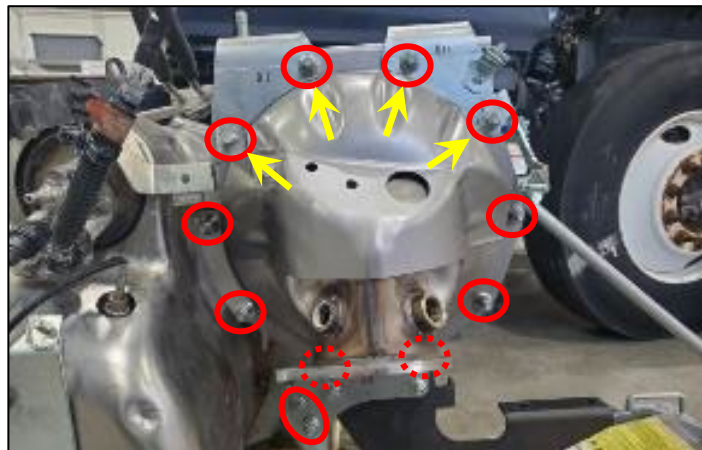


SZ10510091
(Short bolt)

REPAIR PROCEDURE

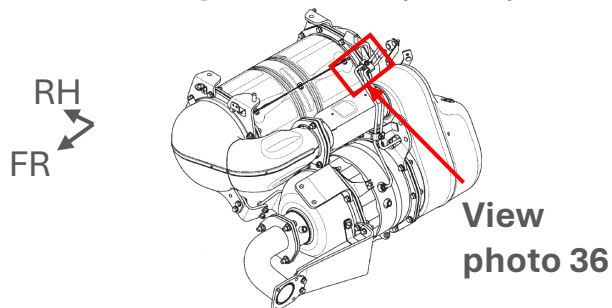
35. Install the supplied DPF / SCR mounting brackets (17505E0N60, 17505E0N70) and heat shield (17551E0C20). Install the four supplied bolts (SZ10510092) and nuts (SZ17810007). Tighten all twelve bolts and nuts to the specified torque.

Specified Torque: 52 ft-lb (70 Nm)

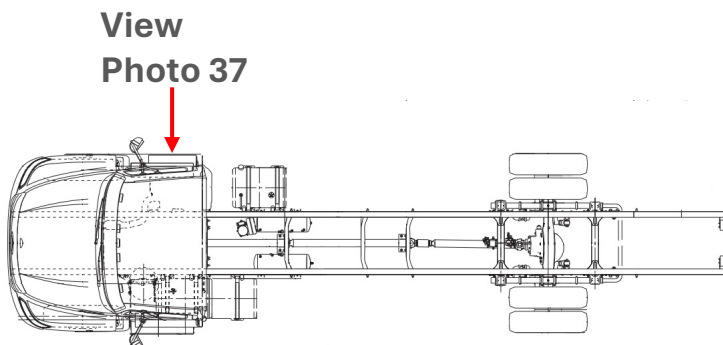


36. Install the nut removed in Step 31 securing the pipes to the SCR mounting bracket. Tighten to the specified torque.

Specified Torque: 6 ft-lb (8 Nm)

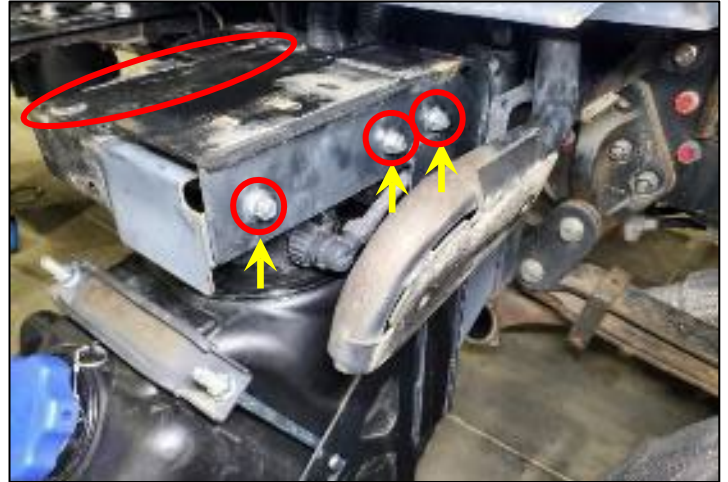


37. Remove and retain the three bolts securing the DCU cover. Remove and retain the cover.



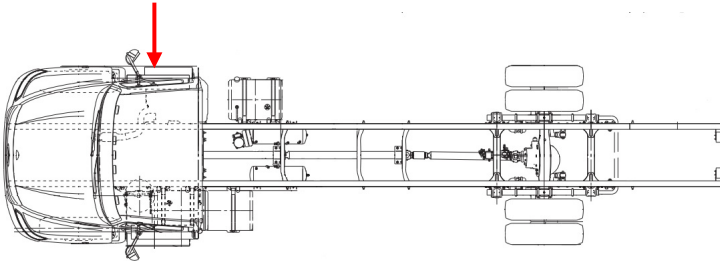
REPAIR PROCEDURE

38. Disconnect the DCU wiring harness connectors and remove the 3 nuts securing the DCU. Remove and retain the DCU.



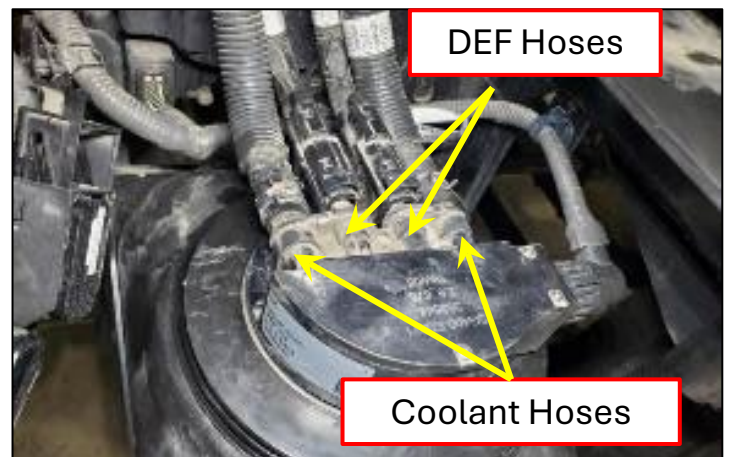
39. Loosen the two nuts securing the DEF tank hold down. Remove and retain the hold down and J-bolts.

View
Photo 39



40. Disconnect the two coolant hoses and the two DEF hoses from the DEF sender. Remove the DEF tank from the vehicle.

WARNING: Ensure the key has been in the OFF position at least 10 min. to allow the DEF after run cycle to complete before performing this step.

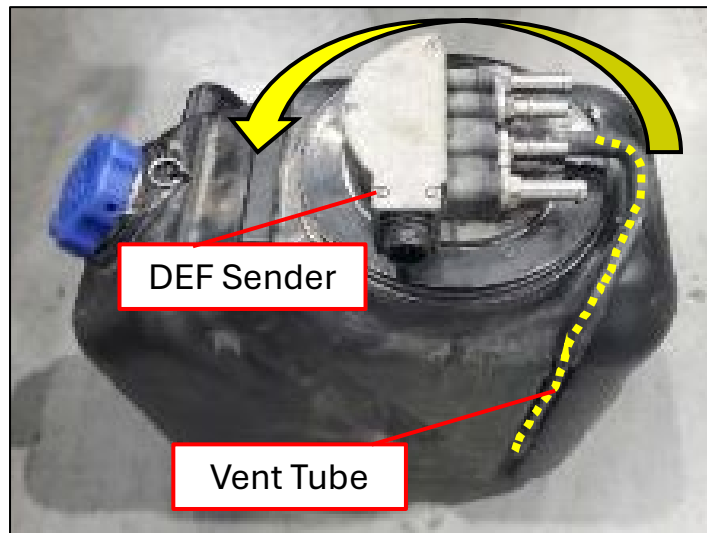
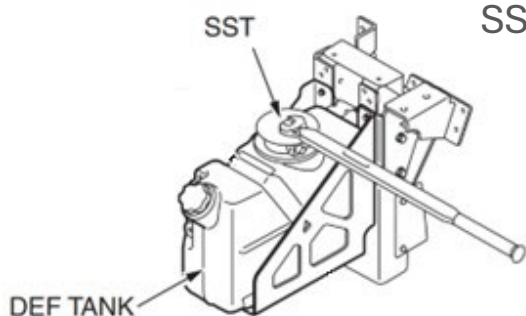


REPAIR PROCEDURE

41. Remove the DEF sender using SST: S0920E1010. Discard the DEF sender and the vent tube.



SST: S0920E1010



42. Install the supplied DEF sender (SG400EW110) using SST: 09990E4020. Install the supplied vent tube (12261E0Z50) until the end.



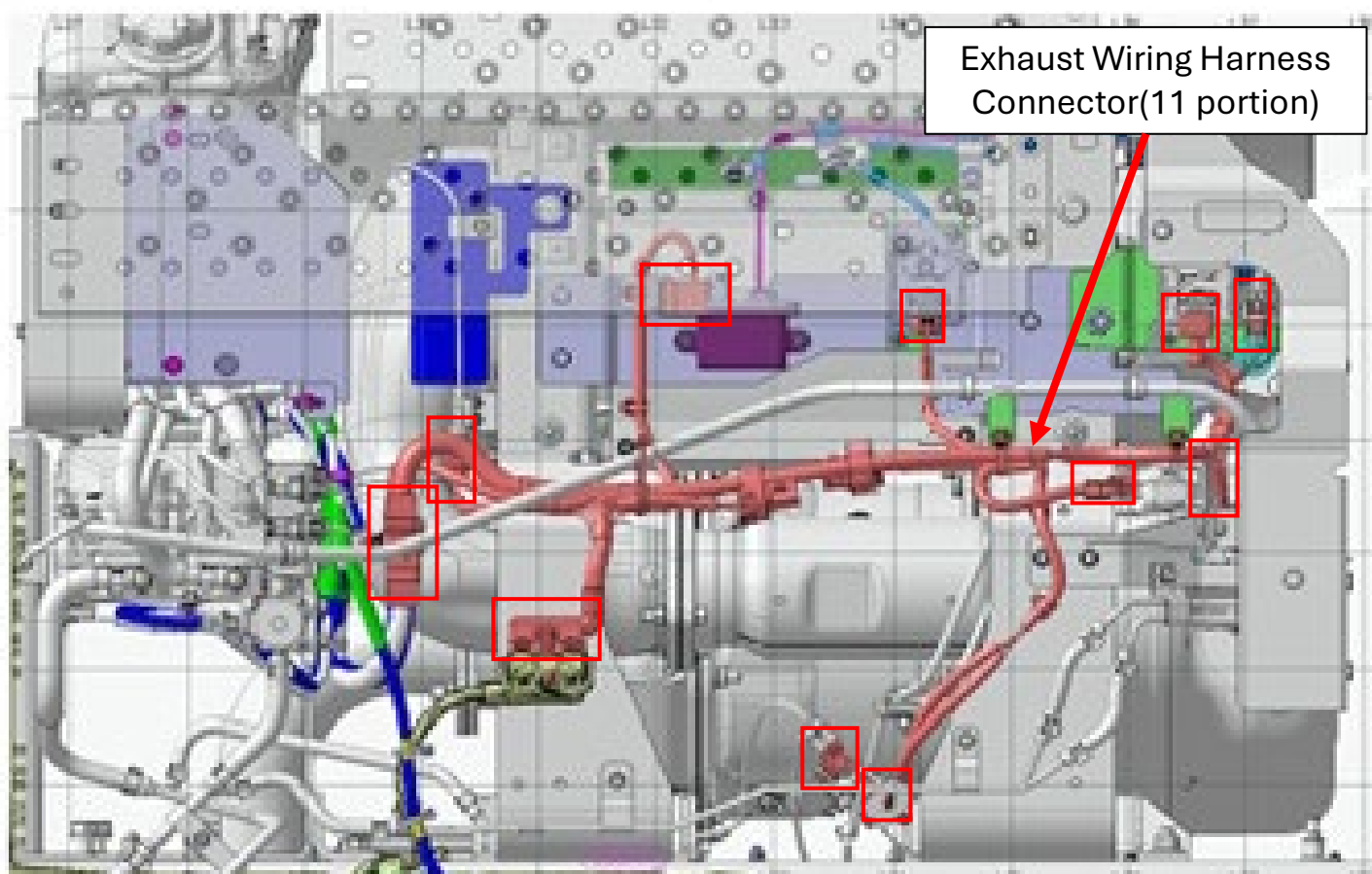
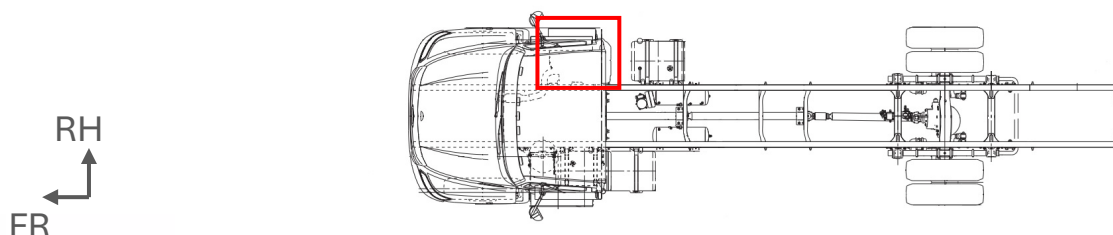
SST: 09990E4020



REPAIR PROCEDURE

43. Replace the Exhaust Wiring Harness. Remove the wiring harness clamps securing the exhaust system wiring harness. Disconnect the remaining wiring harness connectors as shown. Remove and discard the exhaust system wiring harness.

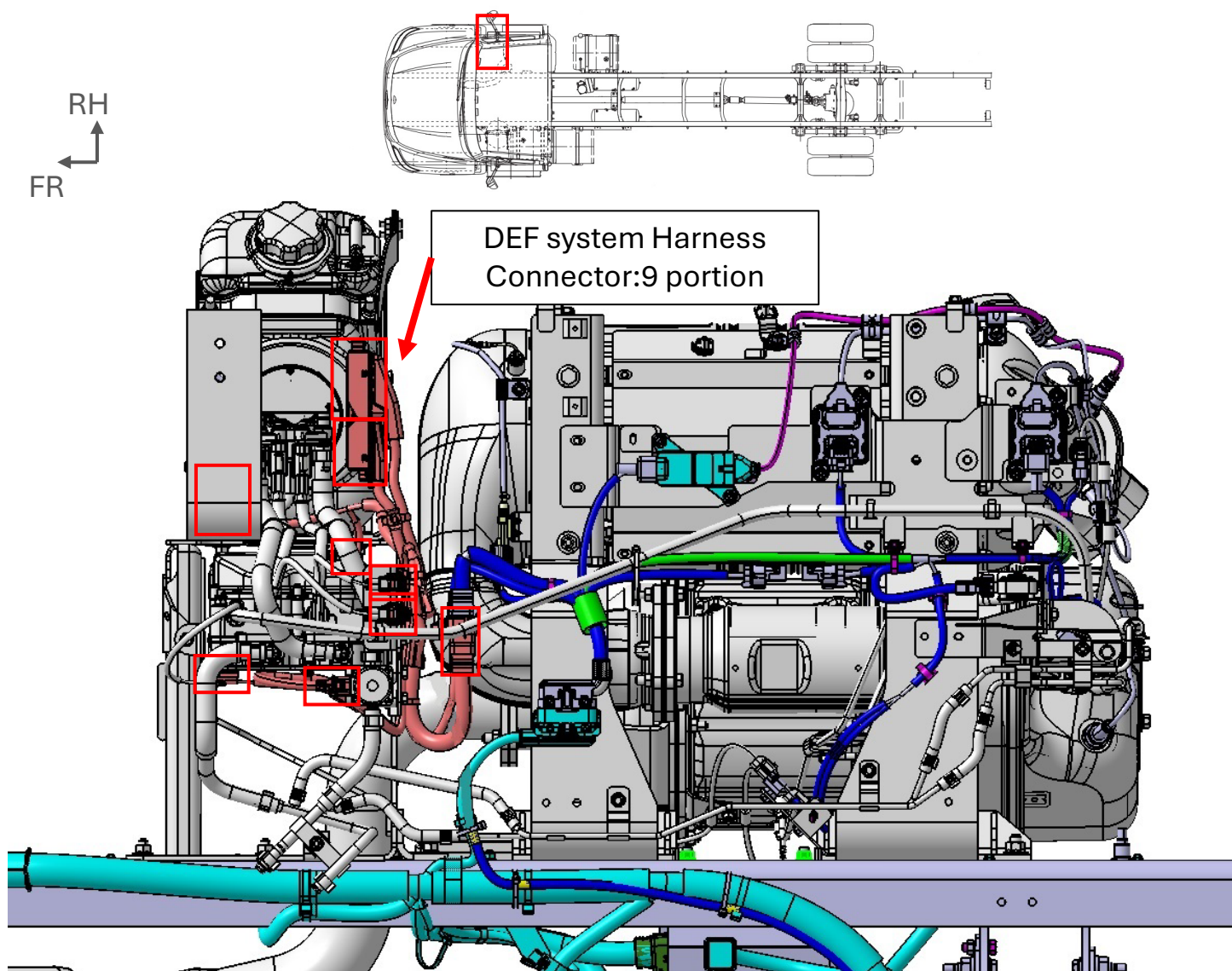
NOTICE: Make note of the harness routing during removal. Recommend marking the frame or other part from which the clamp has been removed. The supplied harness will be routed in the same orientation.



REPAIR PROCEDURE

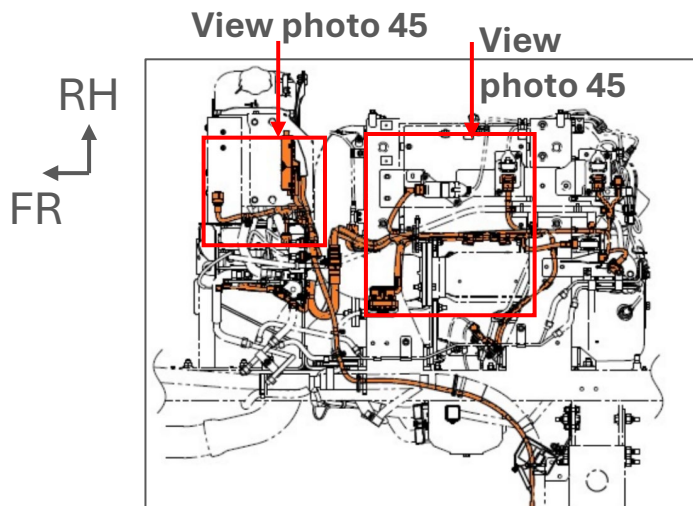
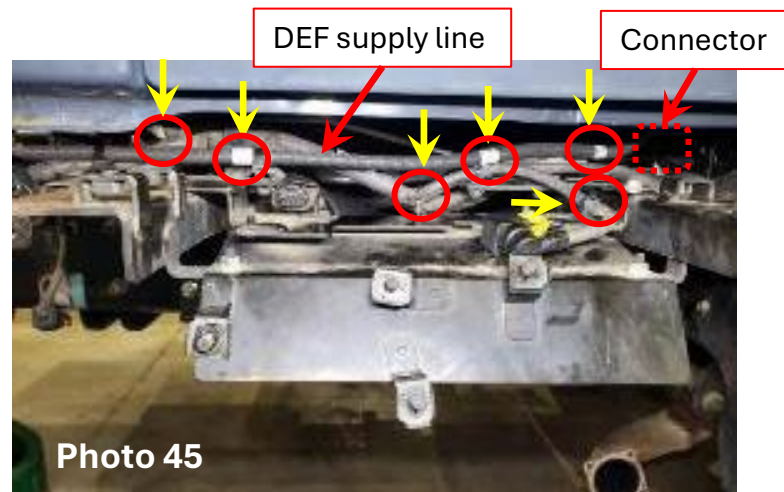
44. Remove the wiring harness clamps securing the DEF system wiring harness. Disconnect the wiring harness connectors as shown. Remove and discard the DEF system wiring harness.

NOTICE: Make note of the harness routing during removal. Recommend marking the frame or other part from which the clamp has been removed. The supplied harness will be routed. in the same orientation.



REPAIR PROCEDURE

45. Install the supplied exhaust system wiring harness (82121E2290 or 82121E2P31) same as Step 43. Ensure three wiring harness clamps are secured and wiring harness connector is fully connected. Secure the DEF supply line to the harness at the three white tape marks with zip ties (SZ46401005).

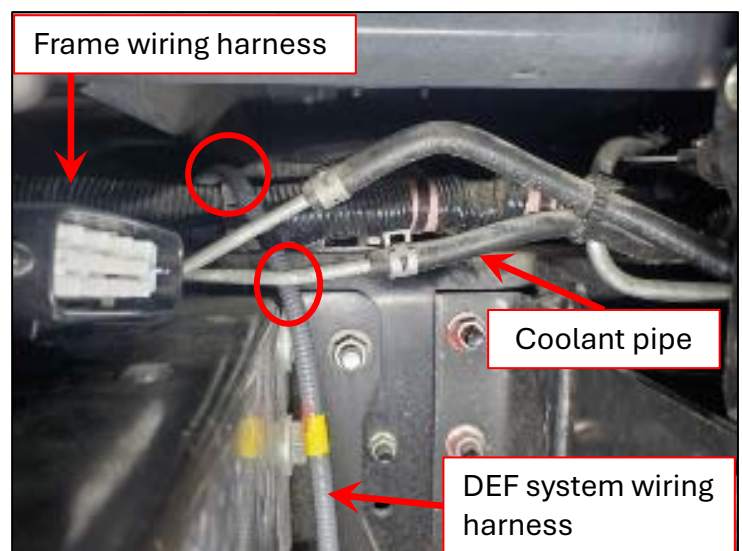


46. Install the supplied DEF system wiring harness (82121E3D40 or 82121E3D50). Ensure two wiring harness clamps are secured.



47. Route the new portion of the DEF system wiring harness under the coolant pipes and over the frame wiring harness as shown.

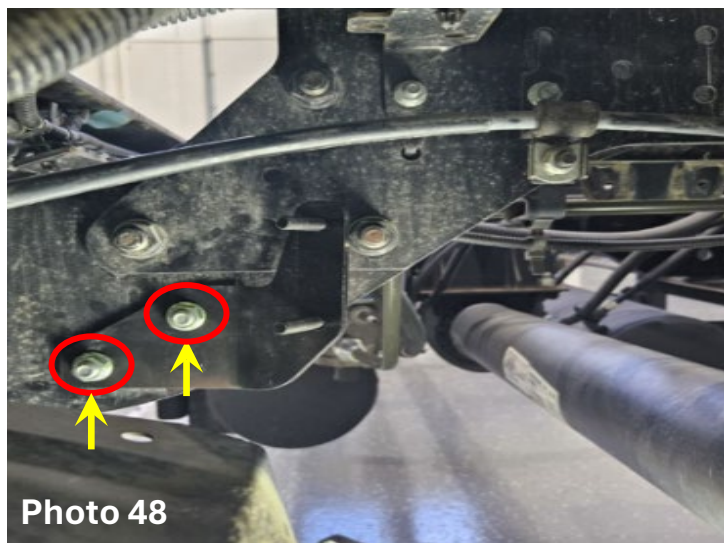
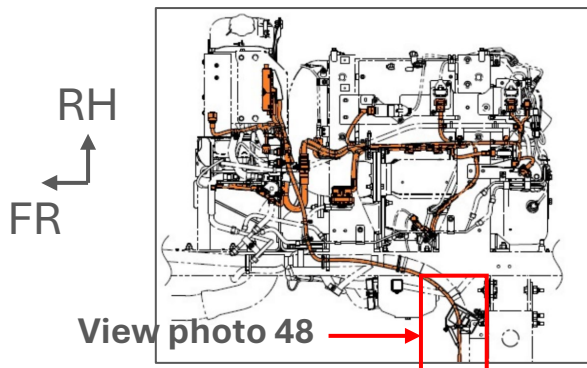
NOTICE: When routing the wiring harness over the frame, it may be necessary to remove the fuse box cover.



REPAIR PROCEDURE

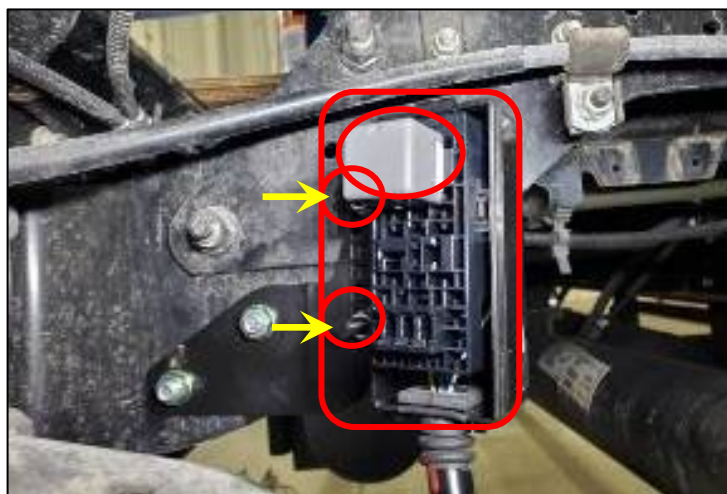
48. Install the supplied fuse block bracket (82729E0L10) on the number 3 crossmember (located at the rear of the cab) with the two supplied bolts (SH562-31030) and nuts (SL15101011). Tighten to the specified torque.

Specified Torque: 40 ft-lb (54 Nm)



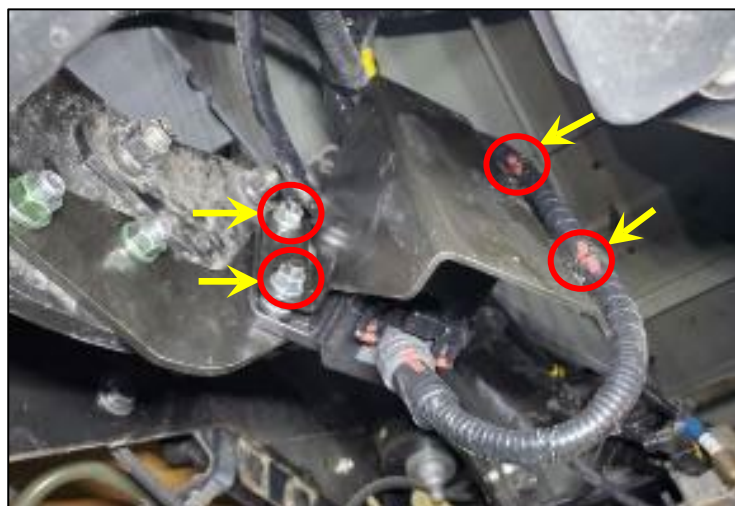
49. Install the fuse block on the bracket installed in Step 48 with the two supplied nuts (SL15100809). Install the supplied relay (28300E0020) and fuse block cover. Tighten the nuts to the specified torque.

Specified Torque: 18 ft-lb (24 Nm)



50. Install the supplied protective cover (82729E0L20) with the two supplied nuts (SL15100809). Route the wiring harness as shown and install the wiring harness clamps. Tighten the nuts to the specified torque.

Specified Torque: 18 ft-lb (24 Nm)



REPAIR PROCEDURE

51. Route the DEF system wiring harness along side the frame wiring harness. Insert the battery connections through the hole(Photo 51-3) in the driver side frame rail near the motor mount. Secure to the frame harness at yellow tape marks(Photo 51-1,-2) with zip ties (S478371230). Make a loop of any excess harness and secure with zip ties (Photo 51-2) near the brake modulator valve. (Refer to next page)

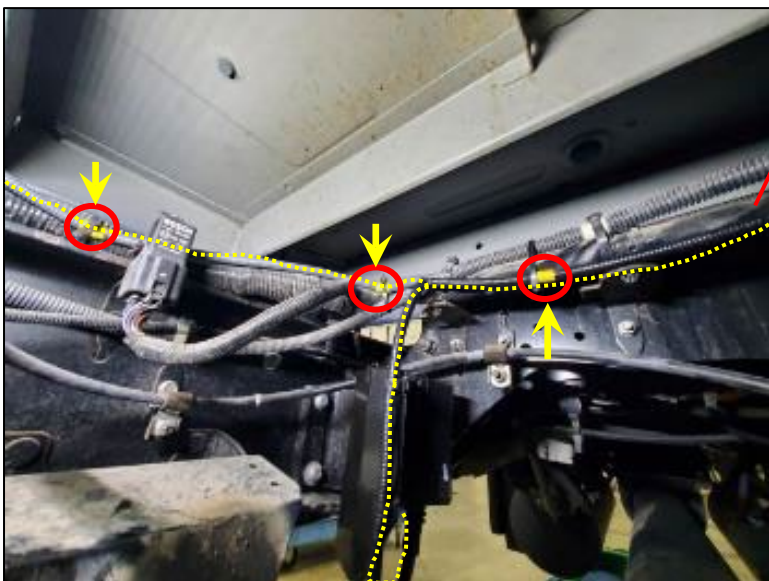


Photo 51-1

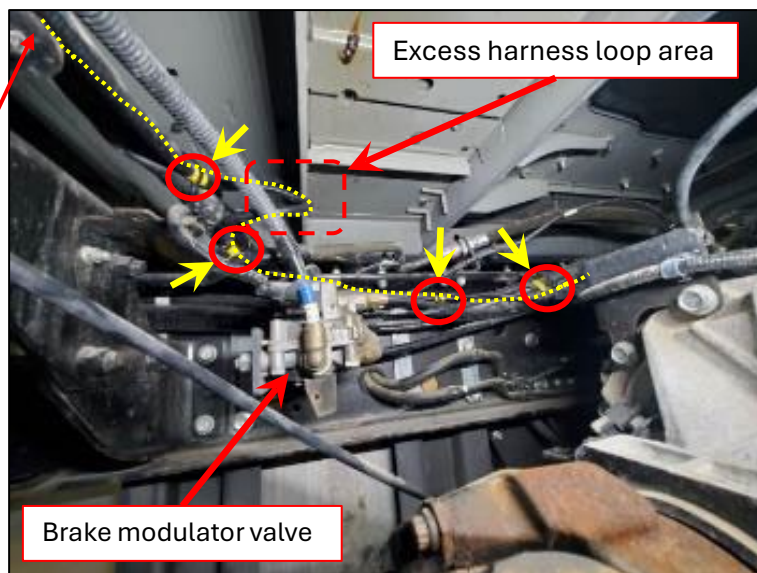


Photo 51-2



Photo 51-3

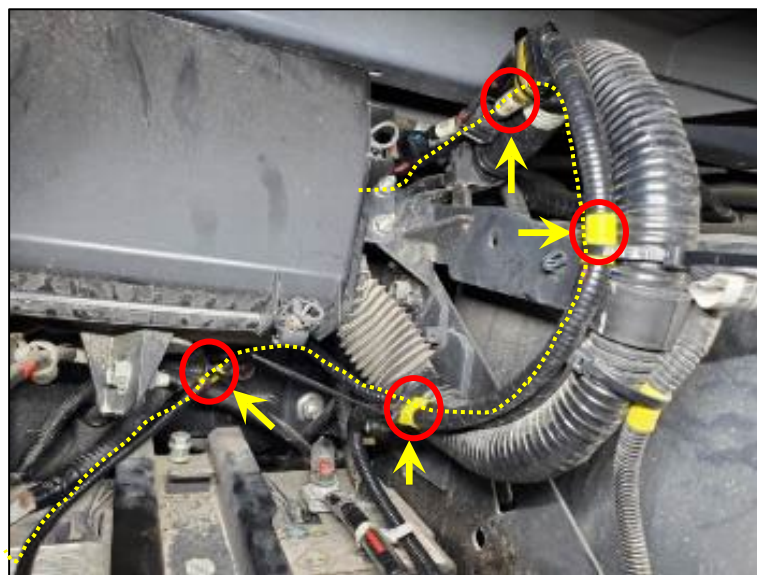
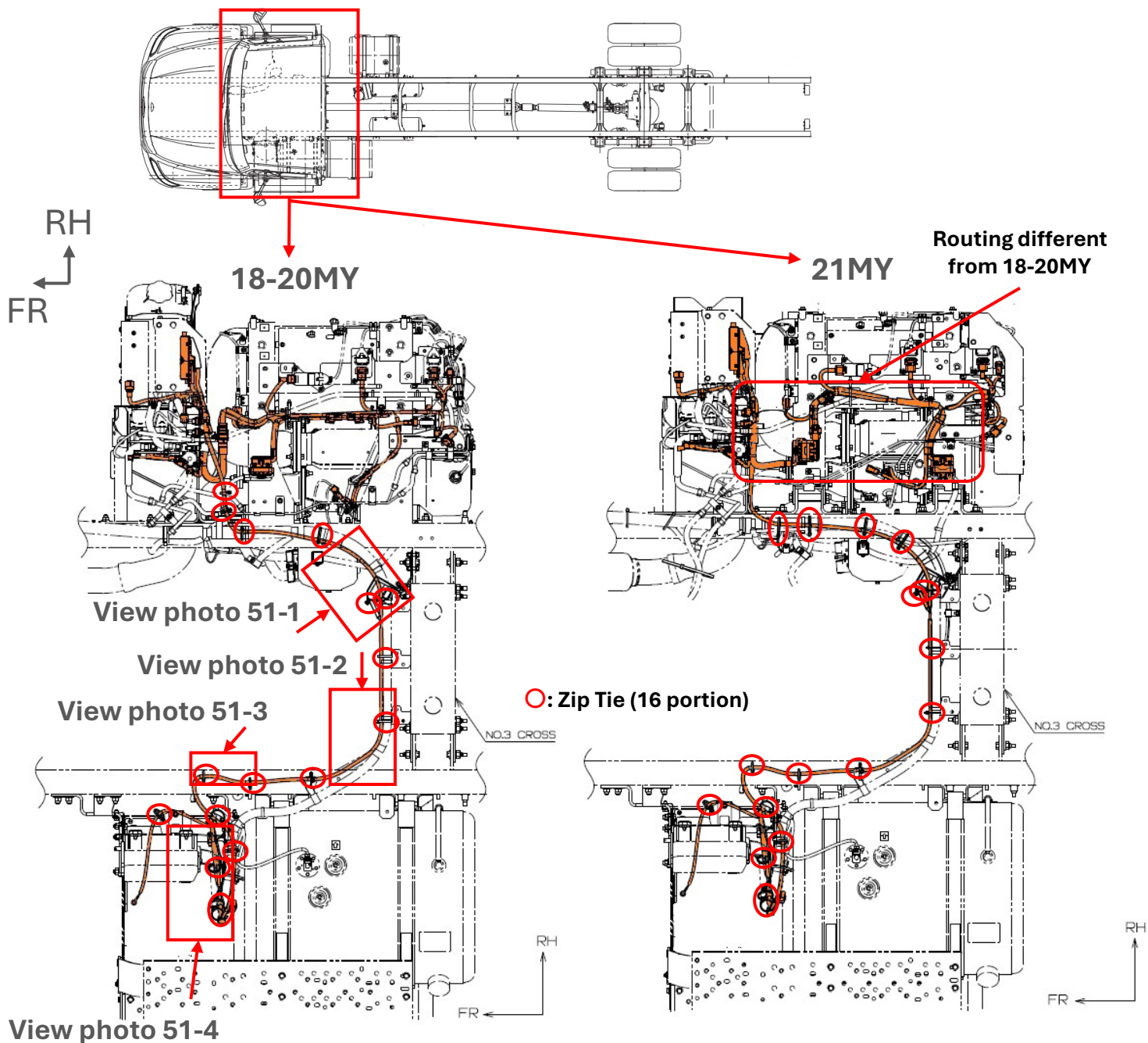


Photo 51-4

REPAIR PROCEDURE

Top view of DEF system and exhaust system harness shown for reference.

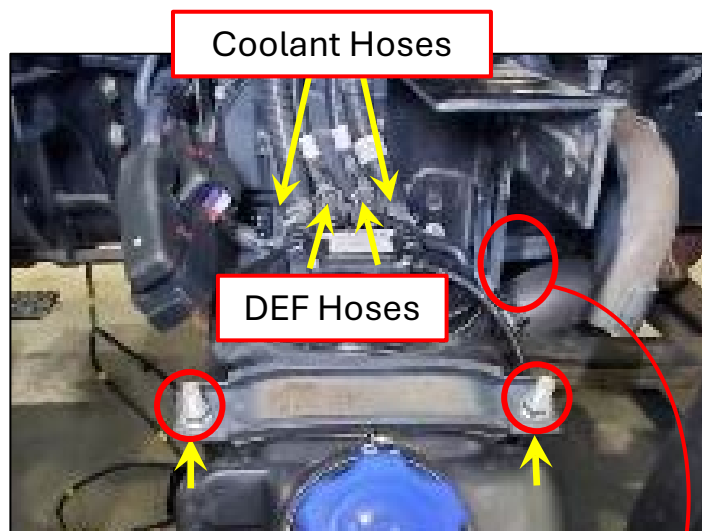


NOTICE: Route the wiring harness exactly as it was before removal in Step 43 and 44. However, the DEF system wiring harness has an additional routing as shown Step 47-51.

REPAIR PROCEDURE

52. Install the DEF tank and install the coolant hoses and the DEF hoses removed previously. Install the hold down and J-bolts removed previously. Tighten the nuts to the specified torque.

Specified Torque: 22 ft-lb (30 Nm)



53. Install the supplied wiring harness clamp (8271148060) at front side of tank as shown. Install the DEF pump wiring harness connector.



54. Install the DCU and the three nuts removed previously and the DCU wiring connectors. Tighten the nuts to the specified torque.

Specified Torque: 16 ft-lb (22 Nm)



REPAIR PROCEDURE

55. Install the DCU cover and the three bolts removed in Step 32. Tighten to the specified torque.

Specified Torque: 16 ft-lb (22 Nm)

56. Install the DPF / SCR assembly. Install the supplied heat shield (S170BE0210) as shown. Install the two bolts and nuts removed in Step 23 and tighten to the specified torque.

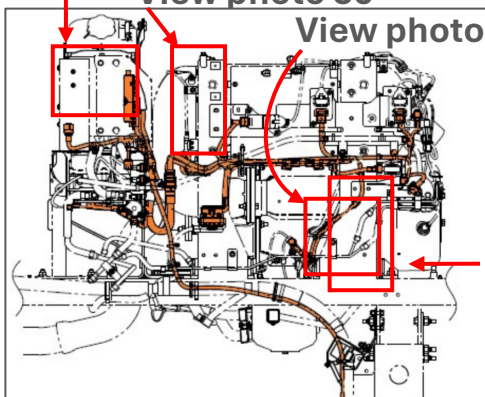
Specified Torque: 62 ft-lb (85 Nm)

View photo 55

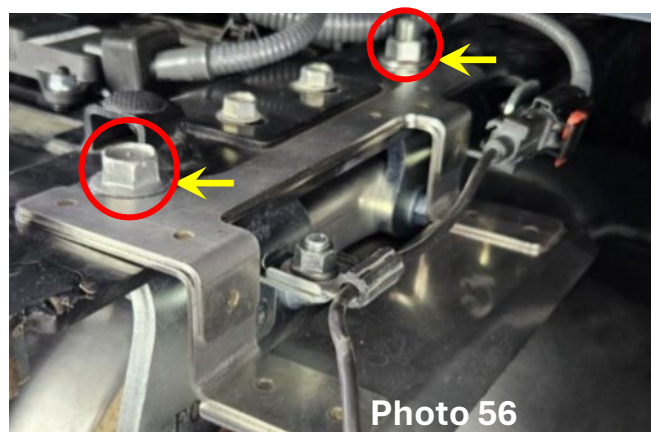
View photo 56

View photo 57-1

RH
FR



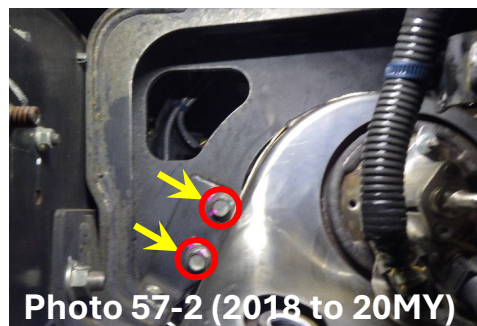
View
Photo 57-2



57. Install the two bolts removed in Step 21 securing the DPF to the frame bracket and tighten to the specified torque.

Specified Torque: 63 ft-lb (86 Nm)

NOTICE: Location varies by model year. 2021 MY location is photo 57-1, 2018 to 2020 MY location is photo 57-2 near the DEF injector.

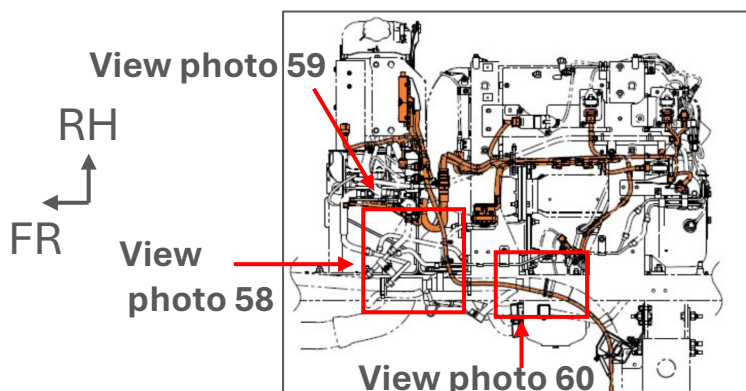


REPAIR PROCEDURE

58. Install the two nuts and the two bolts removed previously securing the DOC to the frame bracket and tighten to the specified torque.

Specified Torque: 63 ft-lb (86 Nm)

NOTICE: 2021 model year shown. 2018 to 2020 model year similar.



59. Install the removed exhaust pipe with the supplied bolts (91553F1035), nuts (SZ17810007) and gasket(S171041580). Tighten to the specified torque.

Specified Torque: 52 ft-lb (70 Nm)

60. Connect the DOC inlet and the DPF inlet temperature sensor wiring harness connectors and install the wiring harness connectors to the bracket.



Photo 58

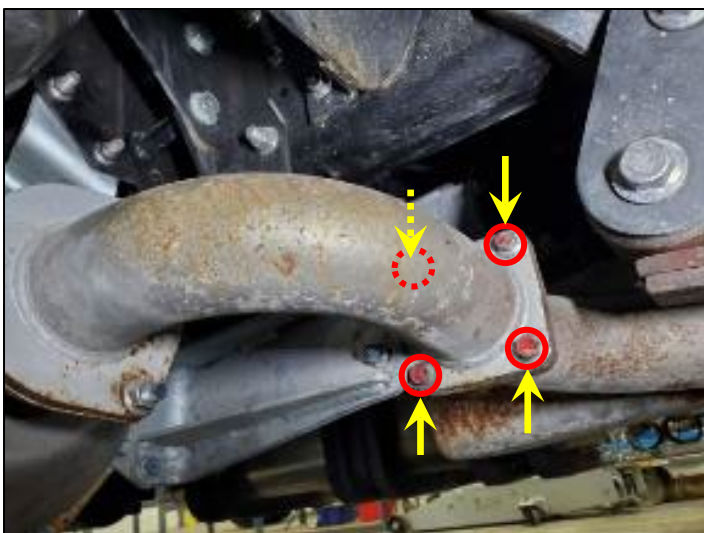


Photo 59

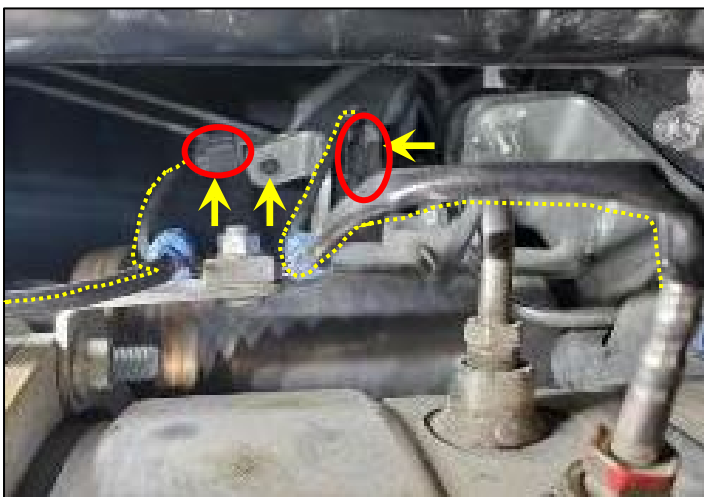
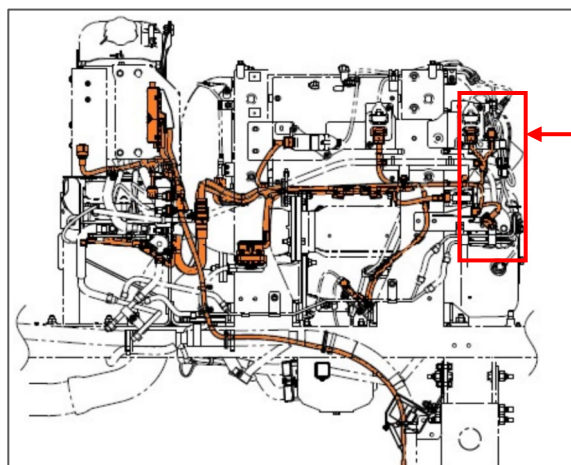


Photo 60

REPAIR PROCEDURE

61. Install the tail pipe, the two supplied bolts (91552F1240), nuts (SZ17812005) and gasket(17173E0090). Tighten to the specified torque.

Specified Torque: 88 ft-lb (119 Nm)



View
photo
61,62,63

RH
FR

62. Install the DEF injector wiring harness connector and DEF supply line as well as the P-clip and the nut removed previously. Tighten the nut to the specified torque.

Specified Torque: 16 ft-lb (21 Nm)

63. Install the differential pressure sensor hoses and clamps.

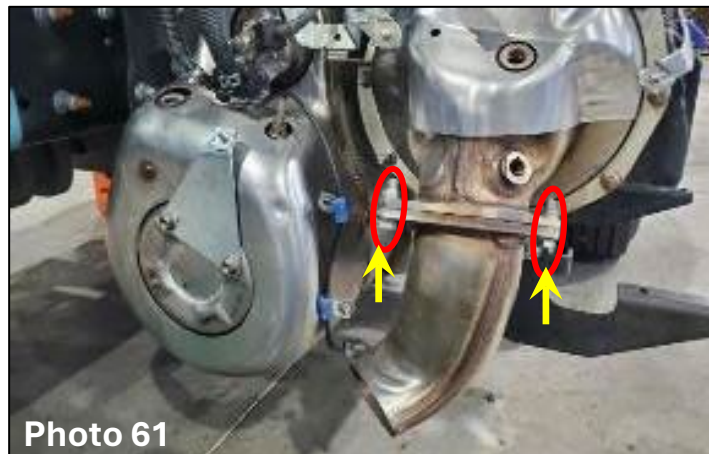


Photo 61



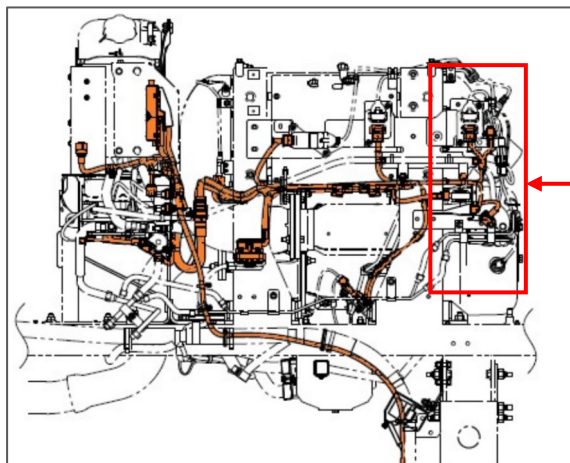
Photo 62



Photo 63

REPAIR PROCEDURE

64. Install the DPF outlet temperature sensor wiring harness connector. Install the two nuts securing the P-clips.



View
photo
64 & 66

RH
FR

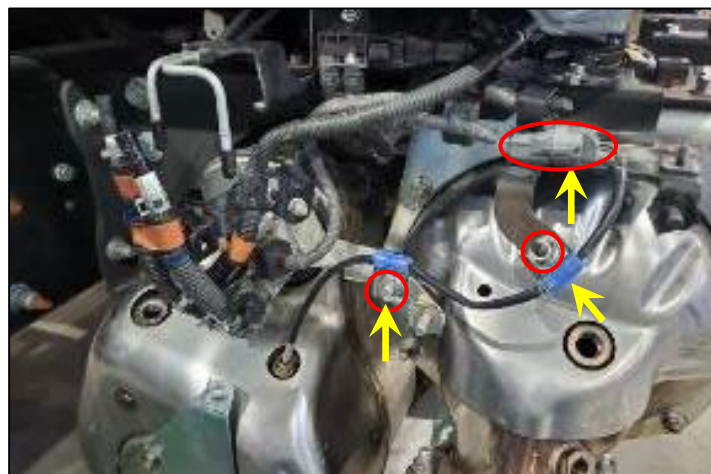


Photo 64

65. Install the supplied zip tie (S478371220) on the upstream NOx sensor (89463E0390) as shown. Ensure the wires are not exposed.



66. Install the upstream NOx sensor and the two supplied nuts (9415180600). Install the wiring harness connector and the sensor probe. Tighten to the specified torque.

Specified Torque:

Sensor Probe – 37 ft-lb (50 Nm)

Sensor Nuts – 5.5 ft-lb (7.5 Nm)



Photo 66

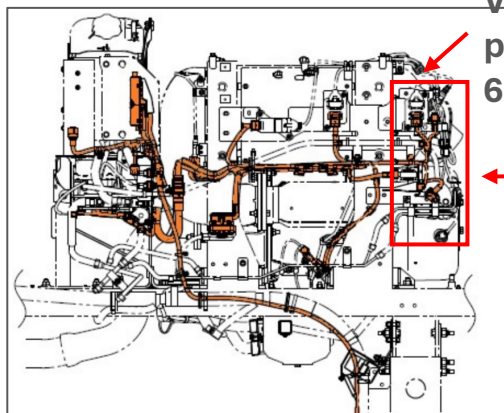
REPAIR PROCEDURE

67. Install the downstream NOx sensor (89463E0530) and the two supplied nuts (9415180600). Install the wiring harness connector and the sensor probe. Tighten to the specified torque.

Specified Torque:

Sensor Probe – 37 ft-lb (50 Nm)

Sensor Nuts – 5.5 ft-lb (7.5 Nm)



RH
FR

View
photo
67 & 69

View
photo 68

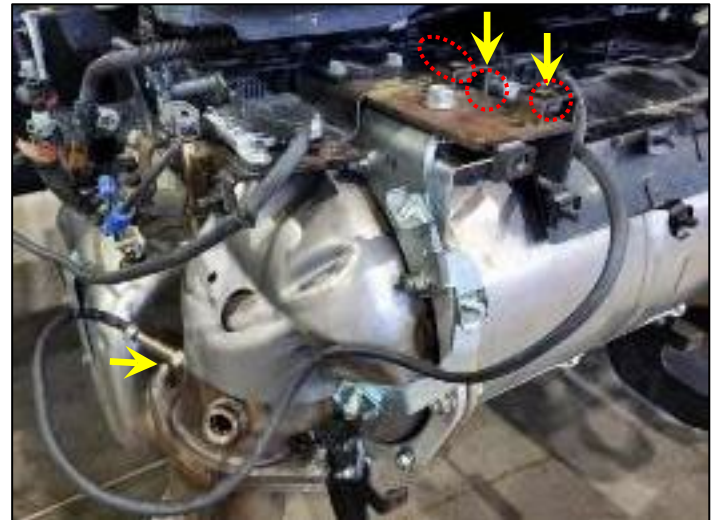


Photo 67

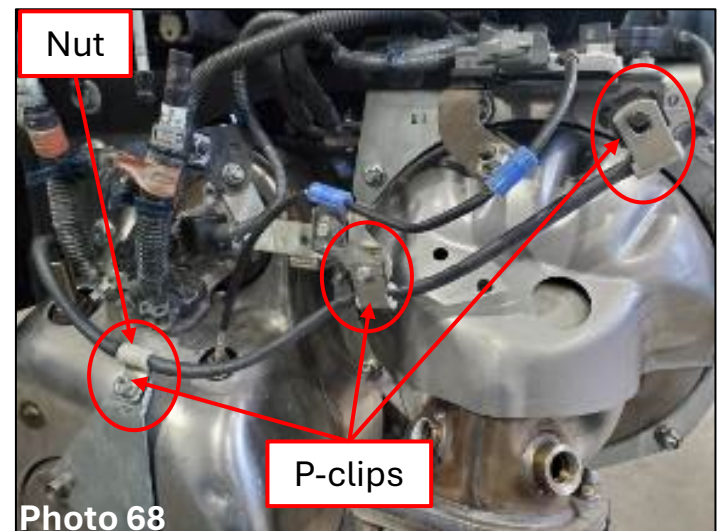


Photo 68

68. Install three of the supplied P-clips (21576E0160) on the upstream NOx sensor wiring as shown. Install but do not tighten the one supplied nut (SL15100809) in the location shown.

69. Install five of the supplied P-clips (21576E0160) on the downstream NOx sensor wiring as shown. Install but do not tighten the three supplied nuts (SL15100809). Route the NOx sensor wiring to avoid sharp bends. Tighten the four nuts(including STEP 68) to the specified torque.

Specified Torque: 23 ft-lb (31 Nm)

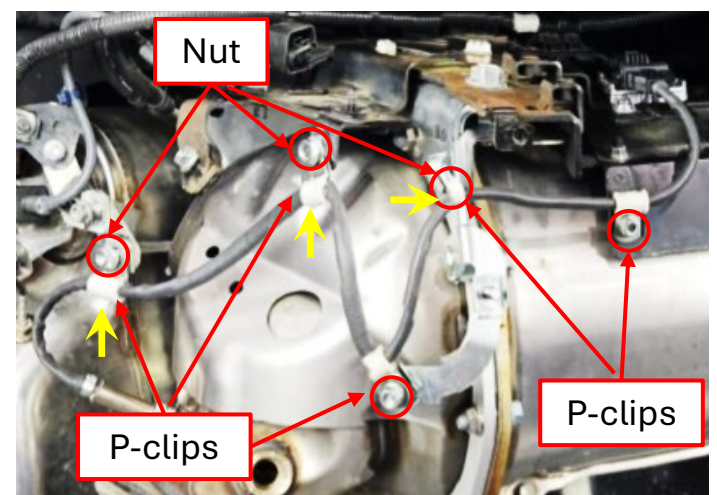
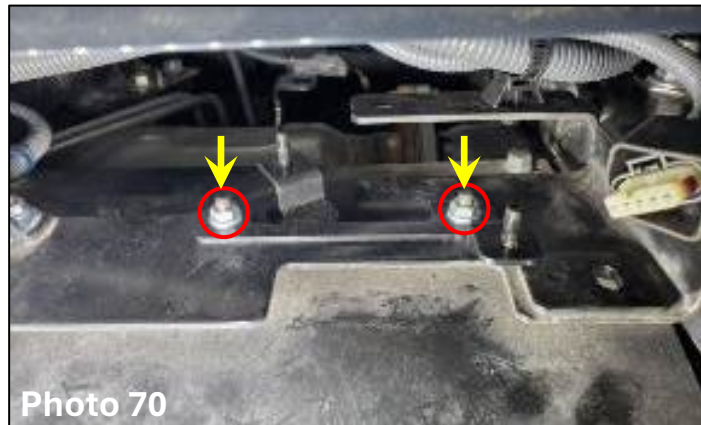
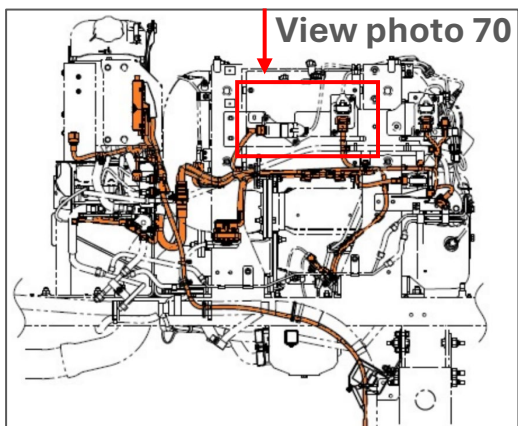


Photo 69

REPAIR PROCEDURE

70. Install the PM sensor bracket (55173E1120) and the two supplied nuts (94151-80600) as shown. Tighten to the specified torque.

Specified Torque: 5.5 ft-lb (7.5 Nm)



71. Install the PM sensor (894A1E0181) and the two supplied nuts (9415180600). Install the wiring harness connector. Install the sensor probe. Tighten to the specified torque.

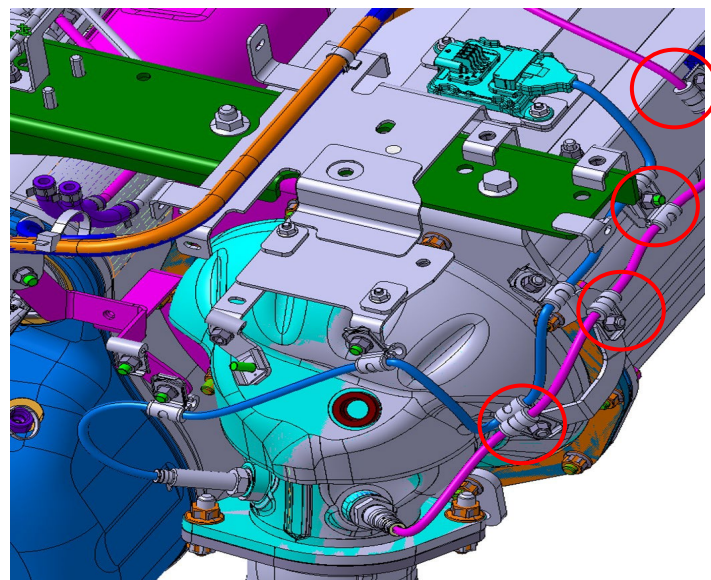
Specified Torque:

Sensor Probe – 37 ft-lb (50 Nm)

Sensor Nuts – 5.5 ft-lb (7.5 Nm)

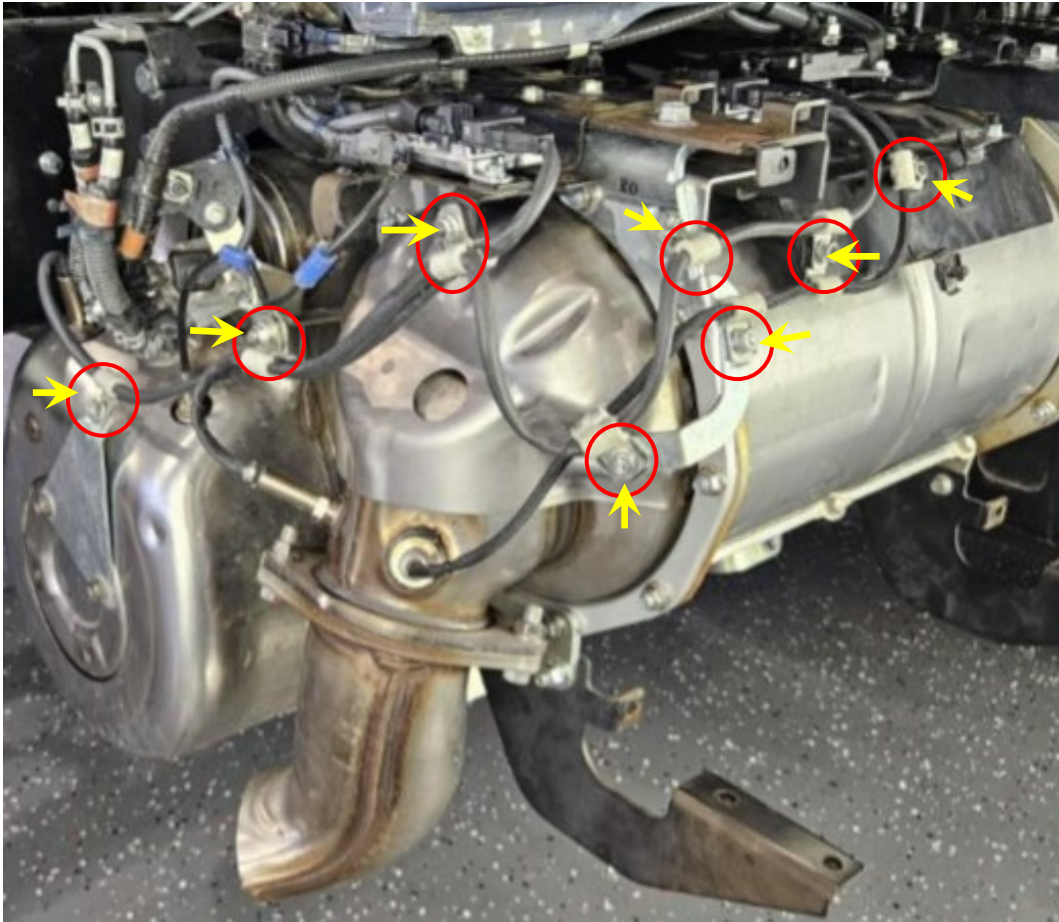
72. Install four of the supplied P-clips (21576E0160) on the PM sensor wiring as shown. Install but do not tighten four of the supplied nuts (SL151-00809) in the location shown. Route the sensor wiring to avoid sharp bends. Tighten the four nuts to the specified torque.

Specified Torque: 23 ft-lb (31 Nm)

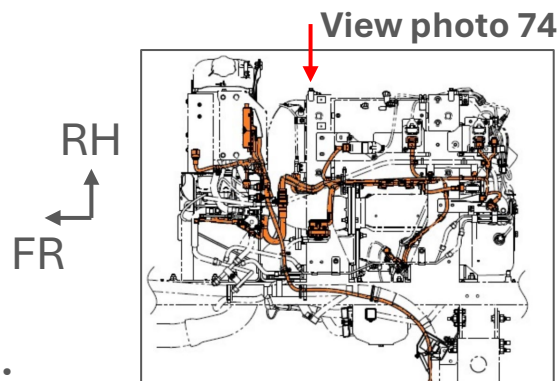


REPAIR PROCEDURE

73. Full view of P-Clip attachment and wire routing



74. Install the SCR inlet temperature sensor. Install the nut securing the P-clip. Tighten the sensor probe and the nut removed previously to the specified torque.



Take care not to break

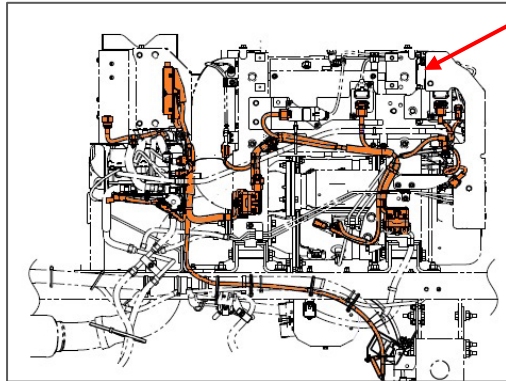
Specified Torque:

Sensor Probe – 25 ft-lb (34 Nm)

P-clip Nuts - 17 ft-lb (23 Nm)

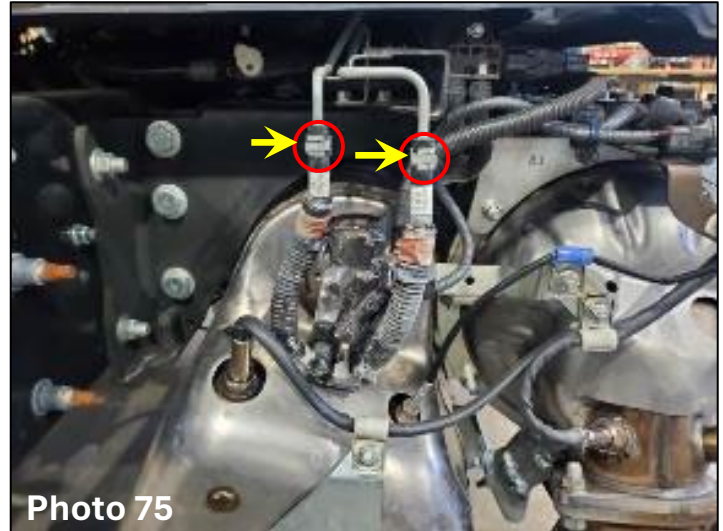
REPAIR PROCEDURE

75. Install the DEF injector coolant hoses and clamps removed previously.



View
photo 76

View
photo 75



76. Install the splash shield and the two bolts and nut removed previously. Tighten to the specified torque.

Specified Torque: 16 ft-lb (22 Nm)

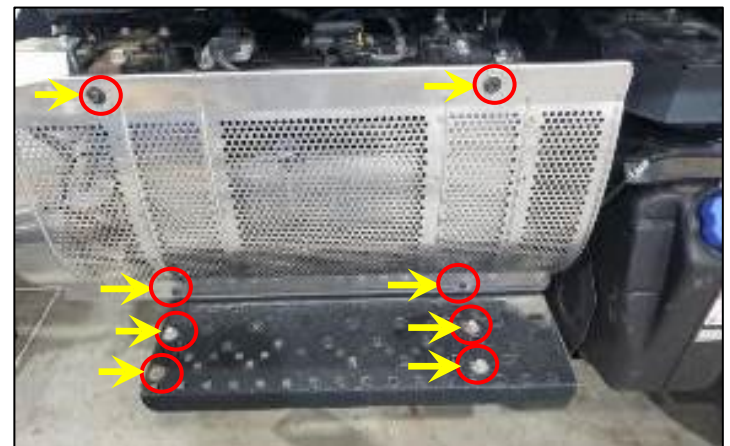


77. Install the SCR cover and the four bolts. Tighten to the specified torque.

Specified Torque: 17 ft-lb (23 Nm)

Install the passenger side lower step and the four bolts. Tighten to the specified torque.

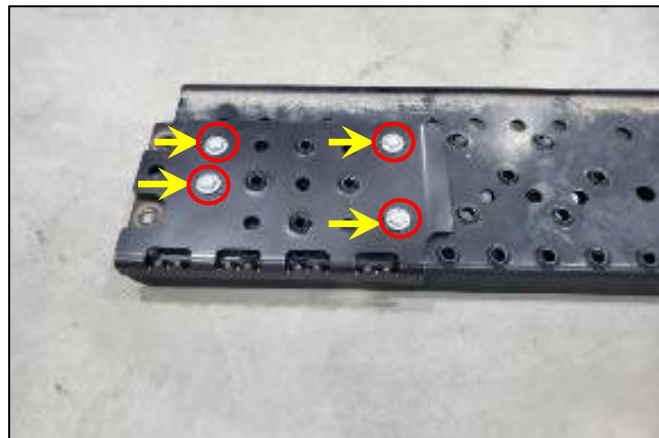
Specified Torque: 29 ft-lb (40 Nm)



REPAIR PROCEDURE

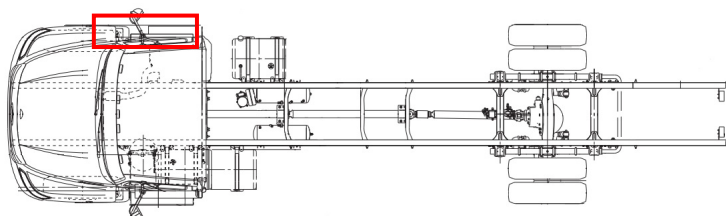
78. Install the supplied step plate (51771E0670) and the four supplied bolts (SZ10510098) and nuts (9415121000) on the upper step as shown. Tighten to the specified torque.

Specified Torque: 29 ft-lb (40 Nm)



79. Install the upper step and the four bolts. Tighten to the specified torque.

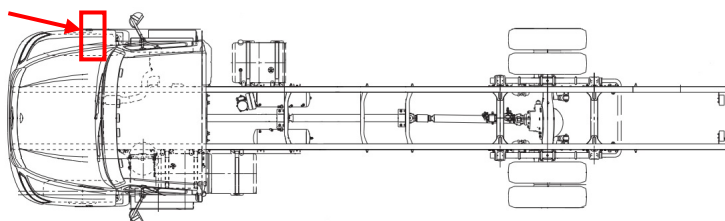
Specified Torque: 29 ft-lb (40 Nm)



80. Install the passenger side fender and the six bolts and the nut removed. Tighten to the specified torque.

Specified Torque: 10 ft-lb (13 Nm)

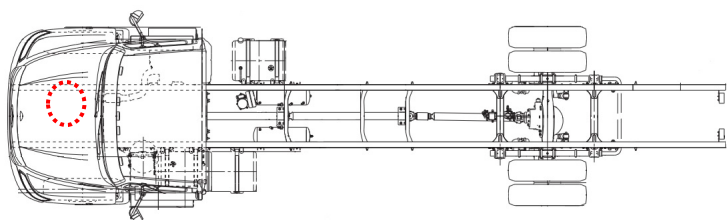
View photo 80



REPAIR PROCEDURE

81. Tighten the coolant drain plug loosened to the specified torque.

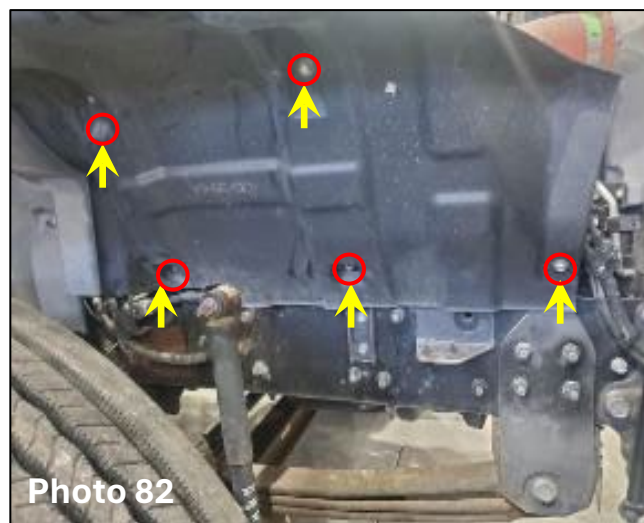
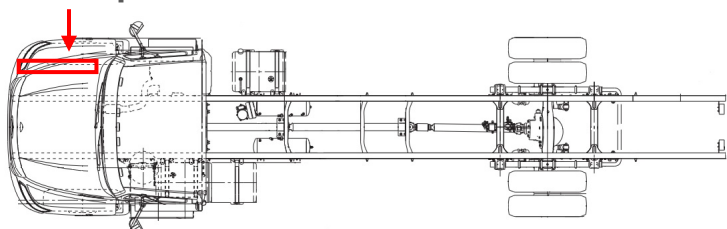
Specified Torque: 33 ft-lb (45 Nm)



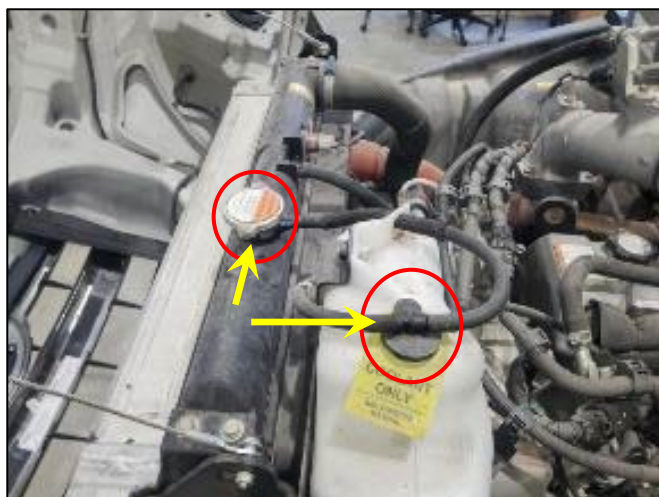
82. Install the passenger side splash shield and five bolts. Tighten to the specified torque.

Specified Torque: 16 ft-lb (22 Nm)

View photo 82

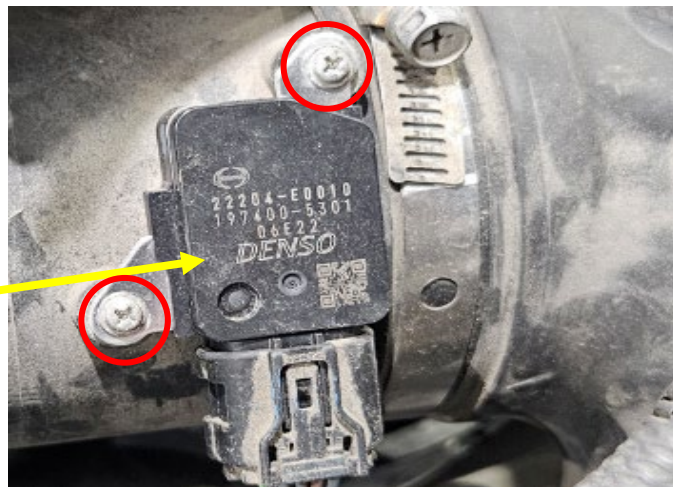


83. Refill the engine cooling system and install the radiator cap.



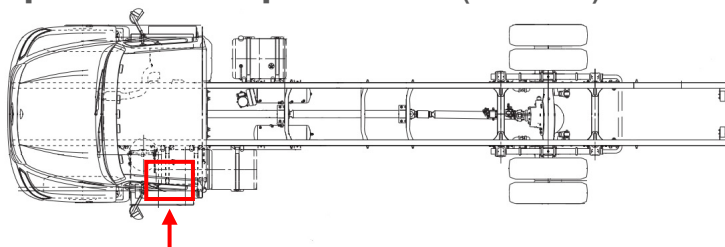
REPAIR PROCEDURE

- 84.** Install the supplied MAF sensor (22204E0010). Tighten the screws (SK31900410) to the specified torque.
Specified Torque: 1 ft-lb (1.5 Nm)



- 85.** Connect the DEF system harness to the battery positive and negative posts of the center battery. Reinstall the negative battery cables. Tighten to the specified torque.

Specified Torque: 8 ft-lb (11 Nm)



View photo 85

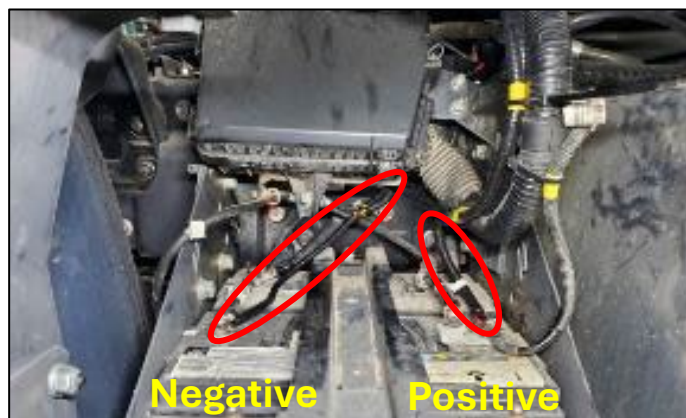
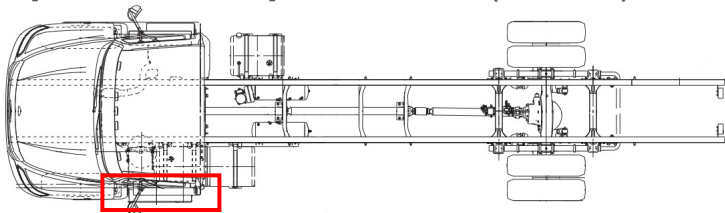


Photo 85

- 86.** Install the driver side upper step and the ten bolts. Tighten to the specified torque.

Specified Torque: 29 ft-lb (40 Nm)



IF PERFORMING CAMPAIGN AB5R01 AB5R03 AB5R05 AB5R06

Complete the following steps. if Campaign Number AB5R02 or AB5R04 proceed to the next section step 108.

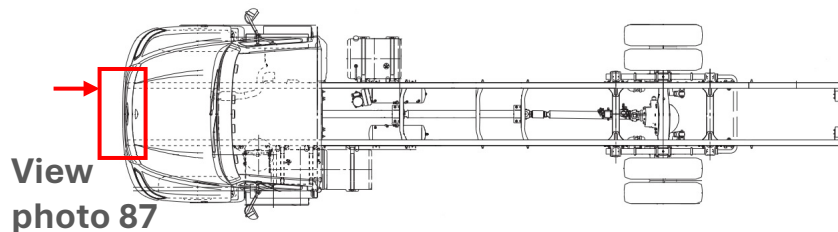
CAMPAIGN NUMBER	APPLICATION
AB5R02	2018 -2020 MY 260HP
AB5R04	2021 MY 260HP

87. IF INCLUDED IN VEHICLE SPECIFIC CAMPAIGN KIT (all 230 HP applications).

CAMPAIGN NUMBER	APPLICATION
AB5R01	2018-2020 MY 230HP(without Spring Seat Replacement)
AB5R03	2018-2019 MY 230HP (with Spring Seat Replacement)
AB5R05	2021MY 230HP (without Spring Seat Replacement)
AB5R06	2018-2020 MY 230HP (Low Pro With Spring Seat and Brake Hose Replacement)

Install the air baffle(S160JE0120) and four bolts (SH69130616) on the bottom of the radiator. Tighten to the specified torque.

Specified Torque: 7 ft-lb (9.5 Nm)



88. Install the supplied “Power change label”(11283E0010) on front of the head cover. And Install the “CAUTION label”(11293E0U30)to the driver side sun visor.



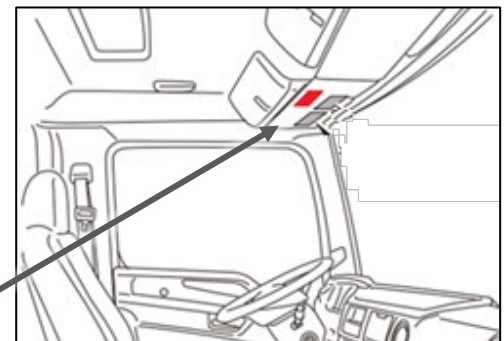
Power change label

THIS VEHICLE'S ADVERTISED HORSE POWER HAS BEEN CHANGED FROM 230HP TO 260HP. (THIS CHANGE IS PURSUANT TO CONSENT DECREE, NO.25-10144)

CAUTION label

CAUTION

The maximum power output of the engine was changed from 230HP to 260HP. Careful with the accelerator pedal. The vehicle's acceleration may be different.





AB5R0* EMISSIONS RECALL

IF PERFORMING CAMPAIGN AB5R03 AB5R06

Complete the following steps. If Campaign Number AB5R01 or ABR505 proceed to the next section step 108.

CAMPAIGN NUMBER	APPLICATION
AB5R01	2018-2020 MY 230HP(without Spring Seat Replacement)
AB5R05	2021MY 230HP (without Spring Seat Replacement)

89. IF INCLUDED IN VEHICLE SPECIFIC CAMPAIGN KIT (Campaign Number AB5R03 or AB5R06 230 HP applications).

CAMPAIGN NUMBER	APPLICATION
AB5R03	2018-2019 MY 230HP (with Spring Seat Replacement)
AB5R06	2018-2020 MY 230HP (Low Pro With Spring Seat and Brake Hose Replacement)

Measure the vehicle wheelbase from the center of the front wheel hub to the center of the rear wheel hub. Verify the 8th digit of the VIN, use the table below to confirm the wheelbase has not been modified.

Has the wheelbase been modified from the Factory configuration?

YES- If wheelbase is more than 235 inch please contact HMS tech assist. It will confirm next step. If wheelbase is less than 234 inch , discard the U-bolts and spring seats included with the Campaign kit, modification is not required.

NO – Proceed to the next step.

8 th Digit of VIN	G	J	L	M	N	P
Wheelbase Measurement (Inch)	152	175	187	205	212	217

8 th Digit of VIN	R	T	V
Wheelbase Measurement (Inch)	235	253	271

REPAIR PROCEDURE

90. Remove and discard the rear U-bolts.



91. Place a jack under the air spring and lift until the spring seat can be removed.



92. Remove and discard the spring seat and install the supplied spring seat (48481EW071 or 48481E0200).

NOTICE: Check the diameter of the center pin.



Spring Seat P/N	Center Pin Diameter
48481EW071	½" (13mm)
48481E0200	¾" (19mm)



AB5R0* EMISSIONS RECALL

REPAIR PROCEDURE

93. Lower the jack. Install the supplied U-bolts (SZ94084281), washers (SZ20122012, SZ20822001) and nuts (SZ17022005). Tighten to the specified torque.

Specified Torque: 426 ft-lb (578 Nm)

94. Repeat the previous steps on the other side of the vehicle. (Step 90-93)



Complete the following steps. If Campaign Number AB5R03 proceed to the next section step 108.

IF PERFORMING CAMPAIGN ONLY AB5R06

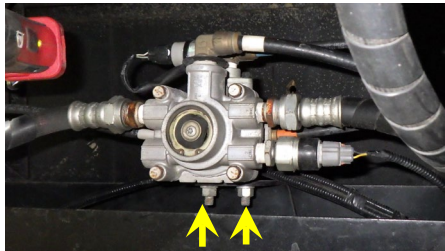
95. Completely empty the compressed air system by opening the drain valves on both air tanks.



REPAIR PROCEDURE

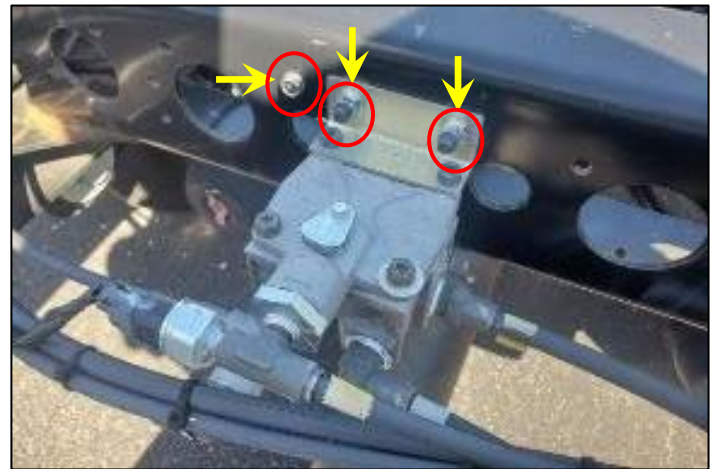
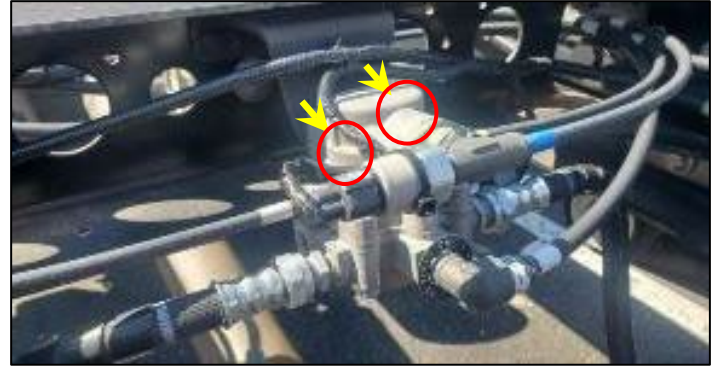
96. Remove and retain the two nuts securing the park brake relay valve to the bracket.

→RH
↓FR



From the bottom side

97. Remove and discard the bolt and remove and retain the two nuts securing the bracket to the crossmember. Remove and discard the park brake relay valve bracket.



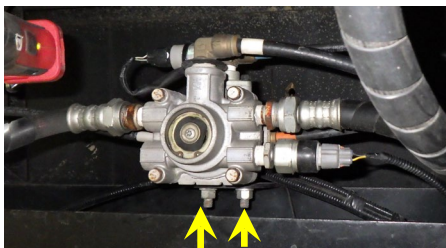
98. Install the supplied park brake relay valve bracket (S440HE0A40) with the four nuts previously removed. Install the supplied bolt (SH56210825). Tighten to the specified torque.

Specified Torque:

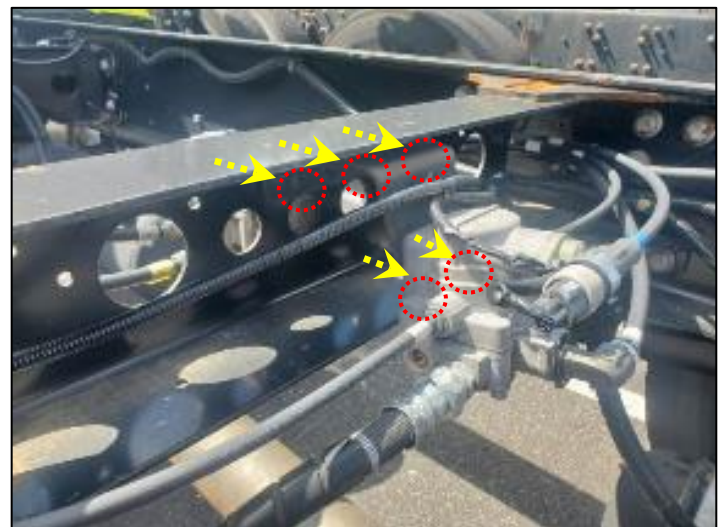
Bolt -17 ft-lb (23 Nm)

Nuts - 38 ft-lb (51 Nm)

→RH
↓FR



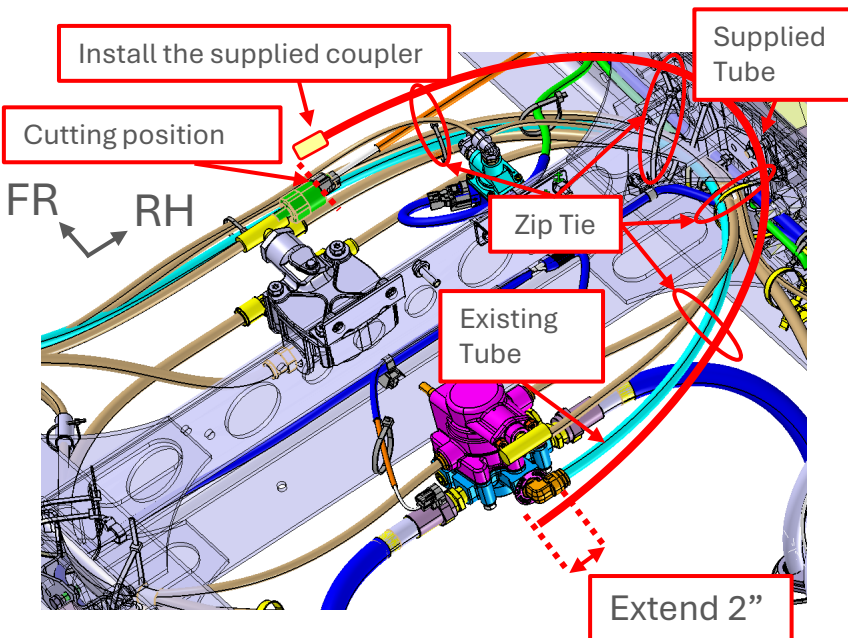
From the bottom side



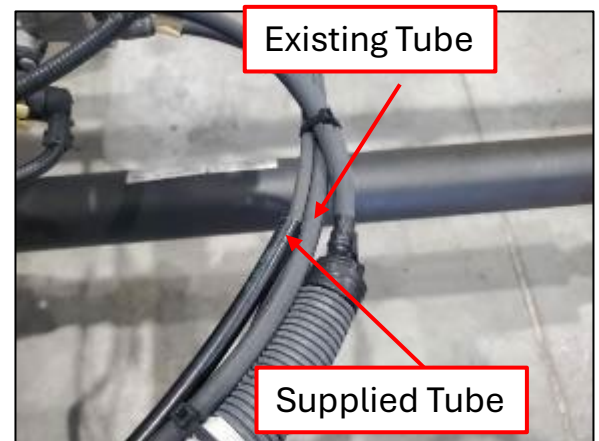
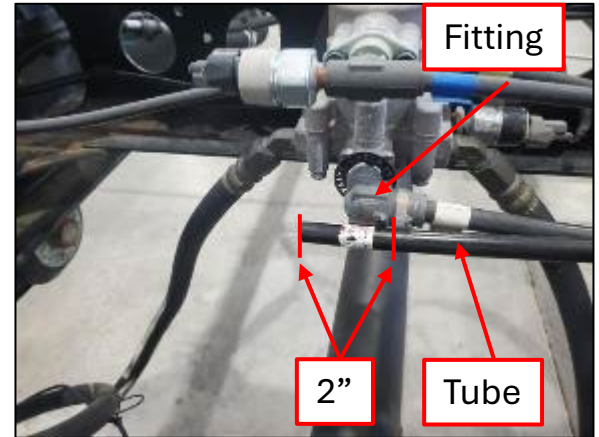
REPAIR PROCEDURE

99. Temporarily install the supplied air tube (S47L0EW020) over the existing air supply tube and extend it 2" (50mm) from the fitting.

100. Cut the existing air supply tube at the end of the supplied air tube (S47L0EW020). Install the supplied coupler (S3480-14770) to join the tubes together.



101. Remove and discard the cut tubing. Install the extended air supply line to the park brake relay valve. Install zip ties (S478371230) to secure the tube as above.



REPAIR PROCEDURE

102. Remove and discard the park brake hose and the fittings from the park relay valve and the brake chambers.



103. Install the supplied fitting (SZ40713010) on the park brake relay valve and the brake chamber. Install the supplied park brake hose (S4703E0W80). Tighten to the specified torque.

Specified Torque:

Fittings - 25 ft-lb (34 Nm)

Brake Hose – 30 ft-lb (41 Nm)

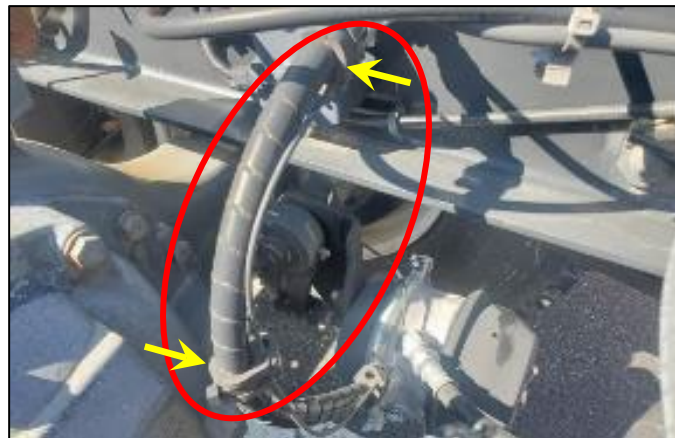


104. Repeat Steps 102 and 103 on the other side of the vehicle.

Other side

REPAIR PROCEDURE

105. Remove the zip ties securing the ABS sensor wiring to the service brake hose.



106. Remove and discard the service brake hose. Install the supplied service brake hose (S4073E0W90). Secure the ABS sensor wiring to the service brake hose with the supplied zip ties (S478371230). Tighten to the specified torque.

Specified Torque: 30 ft-lb (41 Nm)



107. Repeat Steps 105 and 106 on the other side of the vehicle



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REPAIR PROCEDURE

108. Connect DX-III to the vehicle.
Turn the ignition to the ON position.

NOTICE: Ensure DX-III is updated to the latest software version available.



109. Connect to all modules and note any DTCs that are present.

Select **DCU/ System Protection Data**

+	System
+	Engine
	DCU(Doser)(500K)
	Meter (7 inch)
	VCS (Vehicle Control System)
	Differential lock
	Brake (WABCO ABS-E8)
	Body Control Module



110. Select **HC Poison Quantity** and select **Reset**. Select OK(see next page) to reset and OK to confirm reset was complete. Turn the ignition to the OFF position.

System protection data					
System 02 DCU(Doser)(500K) CAN					
☐	No.	Items	Value	Unit	Write to ECU
☐	8504	Ammonia absorption	7.600	g	
☒	8505	HC poison quantity	0.148	g	
☐	8507	Ammonia wall face absorption	0.00	g	
☐	8529	DEF dose feedback volume	1.000		



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REPAIR PROCEDURE

Confirmation

Reset the selected item to its initial value.
Is it OK?

Caution

After writing is complete, turn the key switch OFF for a minimum of 60 seconds. Turn the key ON. Confirm if the value is written correctly or not.

OK

111. Turn the ignition to the ON position. Confirm the HC poison quantity is set to zero.

System 02 DCU(Doser)(500K) CAN					
☐	No.	Items	Value	Unit	Write to ECU
☐	8504	Ammonia absorption	7.600	g	
☒	8505	HC poison quantity	0.000	g	Success
☐	8507	Ammonia wall face absorption	0.00	g	
☐	8529	DEF dose feedback volume	1.000		

112. Return to the main DX III system page to reprogram the Engine ECU and DCU modules with the latest software

Engine ECU Software > 89663-E5K62
DCU (Doser) Software > 89550-E0622

To prevent re-programming errors,
Engine ECU **must** be reprogramed first.

NOTE (For reference): For Module programming instructions see **Tech Tip 23-016** for Engine ECU programming. **This Tech Tip is for programming the Engine ECU, but please follow the same method for the DCU.**

VIN : 5PVNJ8JV0L5S78786			
+	System	Commun...	Software No.
☒	Engine	CAN	89663-E5K61B
☐	DCU(Doser)(500K)	CAN	89550E0621
☐	Meter (7 inch)	CAN	S838C-E0060
☐	VCS (Vehicle Control System)	CAN	S8992-E0A30

When reprogramming the engine ECU as shown in the screen above, select Engine. When reprogramming the DCU, select DCU.



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REPAIR PROCEDURE

113. When reprogramming is complete select finish. Confirm the software number has been updated and select OK.

[R1006]

Reprogramming result view

Before work	After work
VIN 5PVNE8JV3E4552972	VIN 5PVNE8JV3E4552972
Engine No. J08EVC21009	Engine No. J08EVC21009
Software No. 89663-E3665	Software No. 89663-E3018

ECU reprogramming completed.
Check and delete any DTC's for all ECU's connected to the vehicle.

Print OK

114. Reset the SCR Related Memory

See **Tech Tip 24-003** for further information

Select **Engine/ Data Monitor Active Test/ Active Test/ No. 34 DEF SCR related Memory Reset/ OK**

	System
+	Engine
+	DCU(Doser)(500K)
	Meter (7 inch)
	VCS (Vehicle Control System)
	Differential lock
	Brake (WABCO ABS-E8)
	Body Control Module



System 01 Engine CAN

No.	Items
31	Manual forced regeneration
32	Post-processing engine mode
33	Intake throttle valve opening
34	DEF SCR related memory reset
35	Burner maintenance distance reset
36	DEF SCR related maintenance distance reset
37	DEF filter maintenance distance reset
38	DPR maintenance distance reset
39	DPR related memory reset
40	DEF judgment allowed

Reset this item after exchanging urea water in case a water quality error occurred.

OK Cancel

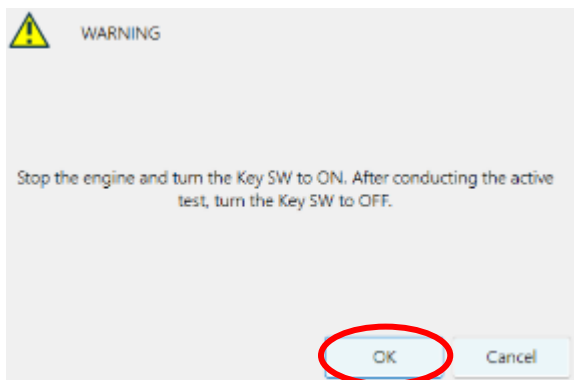
REPAIR PROCEDURE

Select



Items	Specified value	Unit	
DEF SCR related memory reset	Reset		 

Select **OK**, and **Turn Key Switch OFF for 10 seconds, Turn Key Switch ON.**



Select



Items	Specified value	Unit	
DEF SCR related memory reset	Reset		 

Select



Items	Specified value	Unit	
DEF SCR related memory reset	Reset		 

Select



to return to the system Select Menu.

Items	Specified value	Unit
DEF SCR related memory reset	Reset	

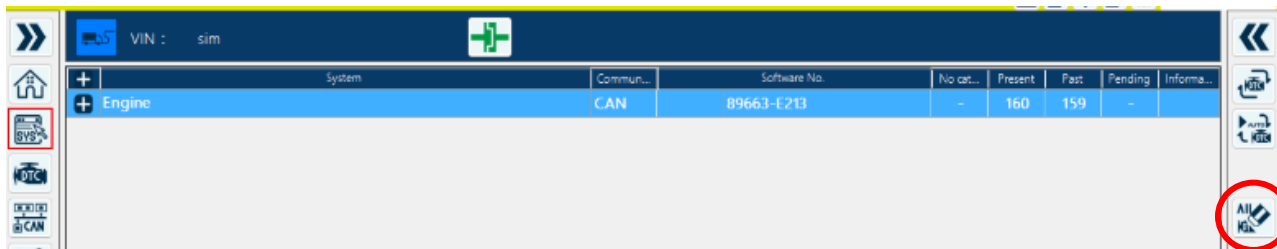





REPAIR PROCEDURE

115. Check and Clear all DTCs

Select Erase All DTCs



116. Set Soot level and Perform Manual Regen

Select Customization , No. 534 “DPF Soot Amount Piling Up”, “Set Value to 4.5”

System 01 Engine CAN						
	No.	Items	Initial value	Set value	Unit	Write to ECU
☐	453	Setting of actuation time for hill start gear chang...	0.0	0.0	Seconds	
☐	456	Long idling control RPM	0	0	rpm	
☐	474	Customized Backup (data 2 byte 6 digits) 1	0	0		
☒	534	DPF Soot Amount Piling Up	0.000	4.500	g/L	
☐	543	PM deposit volume 1 (A09C)	0.000	0.000	g/L	
☐	544	PM deposit volume 2 (A09C)	0.000	0.000	g/L	
☐	580	Total idle fuel injection quantity	0.0	0.0	l	
☐	581	Trip idle injection quantity	0.0	0.0	l	
☐	582	Total fuel injection quantity	0.0	0.0	l	
☐	583	Trip total fuel injection quantity	0.0	0.0	l	
☐	584	Total fuel injection quantity in case of PTO opera...	0.0	0.0	l	
☐	585	Trip PTO (driving) injection quantity	0.0	0.0	l	
☐	586	Trip PTO (stop) fuel injection quantity	0.0	0.0	l	

Select Write , Verify “Success” has displayed.

System 01 Engine CAN						
	No.	Items	Initial value	Set value	Unit	Write to ECU
☐	453	Setting of actuation time for hill start gear chang...	0.0	0.0	Seconds	
☐	456	Long idling control RPM	0	0	rpm	
☐	474	Customized Backup (data 2 byte 6 digits) 1	0	0		
☒	534	DPF Soot Amount Piling Up	0.000	4.500	g/L	Success
☐	543	PM deposit volume 1 (A09C)	0.000	0.000	g/L	
☐	544	PM deposit volume 2 (A09C)	0.000	0.000	g/L	
☐	580	Total idle fuel injection quantity	0.0	0.0	l	
☐	581	Trip idle injection quantity	0.0	0.0	l	
☐	582	Total fuel injection quantity	0.0	0.0	l	
☐	583	Trip total fuel injection quantity	0.0	0.0	l	
☐	584	Total fuel injection quantity in case of PTO opera...	0.0	0.0	l	
☐	585	Trip PTO (driving) injection quantity	0.0	0.0	l	
☐	586	Trip PTO (stop) fuel injection quantity	0.0	0.0	l	



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REPAIR PROCEDURE

117. Start the engine and perform Manual Regeneration by pressing the Manual Regen Button (DX Data does not need to be recorded).



118. Once Regen has completed, recheck for any DTCs and disconnect DX III

+	System
+	Engine
	DCU(Doser)(500K)
	Meter (7 inch)
	VCS (Vehicle Control System)
	Differential lock
	Brake (WABCO ABS-E8)
	Body Control Module

119. Install a recall label to the driver door jamb above the VIN label. Fill in the Campaign No, Dealer code, and Repair date. Proceed to FINAL INSPECTION.

HINO	TRUCKS
Campaign No.: _____	
Dealer code: _____	
Repair date: ____/____/____ (MM/DD/YY)	
DO NOT REMOVE	



AB5R0* EMISSIONS RECALL

FINAL INSPECTION

To complete this procedure review and confirm the following:

- All fasteners have been tightened to the specified torque.
- The ECU and DCU software has been updated to the most current levels.
- There are no current DTCs.
- The engine coolant level is full.
- DPF manual regeneration was performed.
- No coolant, DEF or exhaust leaks are present.

CLAIM APPLICATION

- Reimbursable in accordance within the terms and policies of the Hino limited warranties.
-
- a) Claim Type: EM
 - b) Campaign: AB5R01, AB5R02, AB5R03, AB5S04, AB5R05, AB5R06
 - c) Labor Charge: 7.1h - AB5R02, AB5R04
7.4h - AB5R01, AB5R05
9.2h - AB5R03
9.9h - AB5R06