



SERVICE BULLETIN

22-23 MY L-SERIES RADIATOR RETROFIT

GROUP: 0-GENERAL

SB NO : 24-003

DATE: 9/16/2024

REF : HMM-240703-BR1

SUBJECT VEHICLES:

2022MY – 2023 MY L-Series Hino vehicles that were assembled at the Mineral Wells, West Virginia USA assembly plant.

Note:

This technical service bulletin is provided as technical information and is not authorization for a warrantable repair.

OVERVIEW:

The service part radiator (P/N 16400EW080) installed on 2022 and 2023 model year L-Series Hino vehicles has been discontinued and may not be available. If the radiator requires replacement on a subject vehicle, this service publication has been developed to guide you in the following areas:

- Inspection procedure to determine if the currently installed radiator in the vehicle is a 2022/2023 model year radiator.
- If the vehicle is currently equipped with 2022/2023 model year radiator, a repair procedure guiding you to install a new 2024 model year level cooling module assembly. The cooling module consists of a new radiator (P/N 16400EW140), charge air cooler (P/N 17940EW170) and other related parts.

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.
- Park the vehicle on a flat, level and solid surface.
- Place the gear shift lever in "Neutral" or "Park".
- Apply the parking brake firmly and confirm parking brake activation.
- Place wheel chocks in front of and behind all the wheels to prevent the vehicle from moving.



PARTS:

Parts required are based on the truck options.

- Cooling Module required for all conversions
- With or Without Rear Air Conditioning to determine the A/C liquid line required
- Allison Transmission type to determine the correct TOC parts kit.

Cooling Module W/O Rear A/C Conversion Parts.						
DESCRIPTION	Conversion Kit - All 2K Series Transmissions		Conversion Kit - 3K RDS Series Transmissions		Conversion Kit -3K HS Series Transmissions	
	PART NUMBER	QUANTITY	PART NUMBER	QUANTITY	PART NUMBER	QUANTITY
Cooling Module	S16A0EW201	1	S16A0EW201	1	S16A0EW201	1
Air Conditioning Liquid Line (W/O Rear A/C)	88721E0280	1	88721E0280	1	88721E0280	1
TOC (1/2/3) KIT	HN001234327	1	HN001234328	1	HN001234329	1

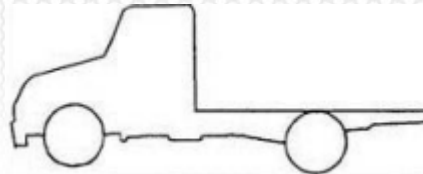
Cooling Module With Rear A/C Conversion Parts.						
DESCRIPTION	Conversion Kit -All Allison 2K Series Transmissions		Conversion Kit - 3K RDS Series Transmissions		Conversion Kit -3K HS Series Transmissions	
	PART NUMBER	QUANTITY	PART NUMBER	QUANTITY	PART NUMBER	QUANTITY
Cooling Module	S16A0EW201	1	S16A0EW201	1	S16A0EW201	1
Air Conditioning Liquid Line (W Rear A/C)	88721E0290	1	88721E0290	1	88721E0290	1
TOC (1/2/3) KIT	HN001234327	1	HN001234328	1	HN001234329	1

Note: Individual Part Numbers are called out in the following steps. Parts contained in the TOC Kit are labeled separately.



VEHICLE PREPARATION:

1. Park the vehicle on a flat, level and solid surface.



2. Confirm the engine is stopped, the ignition switch is in the off (LOCK) position, and the key is removed.



3. Apply the parking brake.



4. Chock all of the wheels.

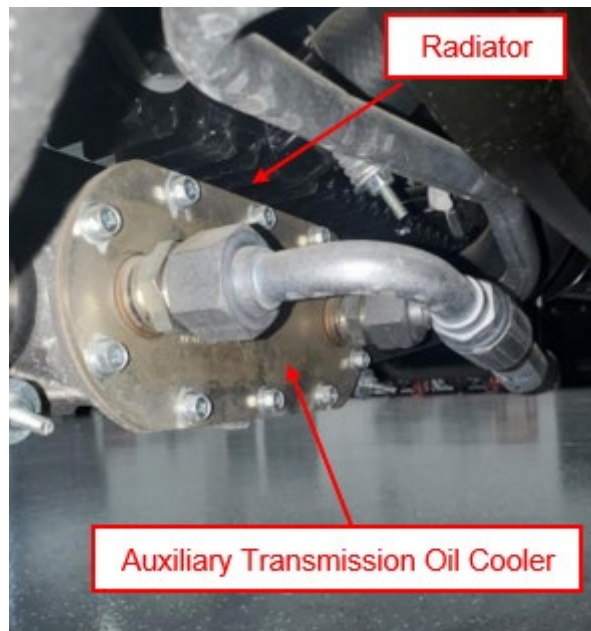


INSPECTION PROCEDURE:

1. Inspect the vehicle for the presence of an auxiliary transmission oil cooler located below the radiator. Is there an auxiliary transmission oil cooler located below the radiator?

NO – This bulletin does not apply.

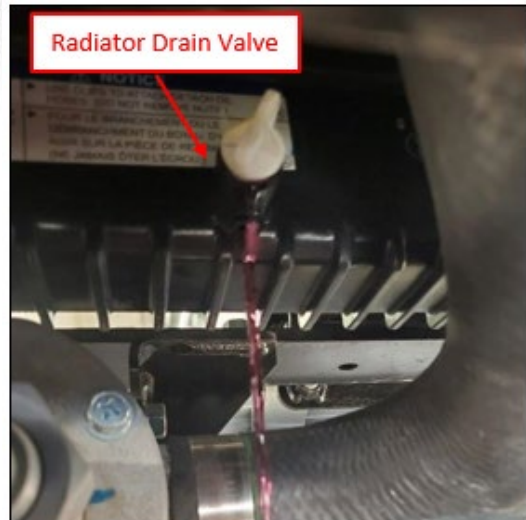
YES – Proceed to the ***REPAIR PROCEDURE*** if the radiator is damaged and requires replacement.



REPAIR PROCEDURE:

1. Allow the engine and cooling system to cool down to ambient temperature. Remove the engine coolant fill cap from the coolant degas bottle. Open the radiator drain valve and drain the coolant into a suitable container, close the radiator drain valve and install the coolant fill cap before proceeding to Step 2.

WARNING: Do not loosen or remove the coolant fill cap or attempt to drain the cooling system until the coolant and engine have cooled to ambient temperature. Loosening or removing the coolant fill cap or draining the cooling system prior to the cooling system cooling down could cause severe personal injury due to scalding.



2. Recover the refrigerant using an approved and certified R-134 Refrigerant Recovery, Recycle and Recharge Machine. Refer to the on-line service manual for additional information and notices.

- Chassis Manual (Volume 2)
- Cab (Section CA02-1)
- Air Conditioning System (Section CA02-51 _ CA02-67)

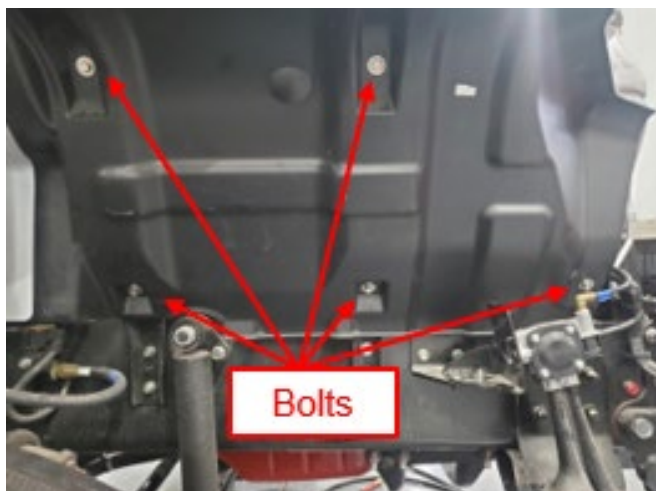


3. Using the on-line service manual, remove the hood.

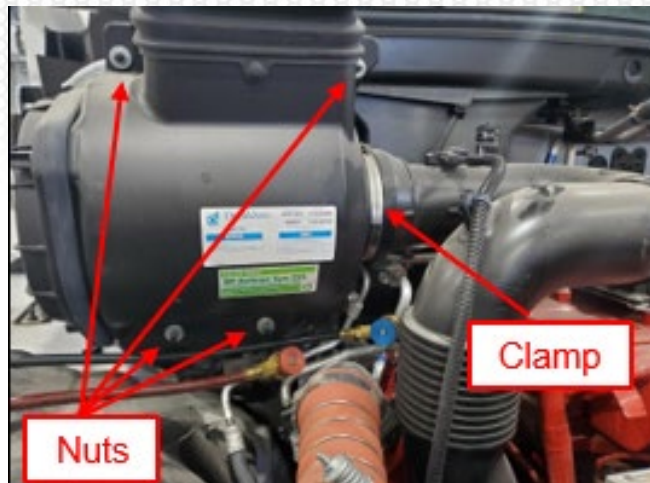
- Chassis Manual (Volume 2)
- Cab (Section CA02-1)
- Hood (Section CA02-12 _ CA02-16)



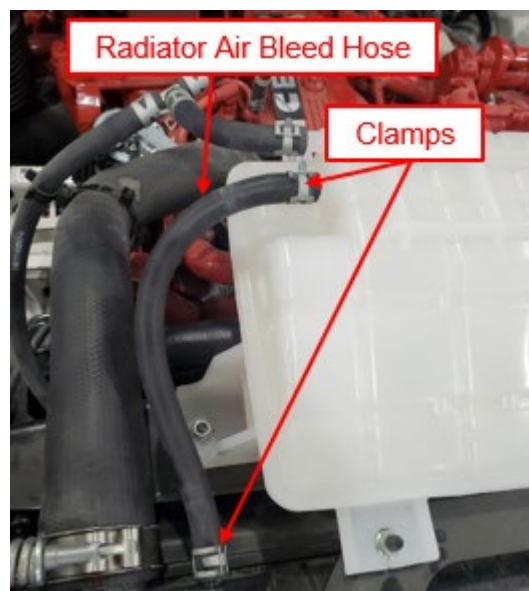
4. Remove the five bolts securing the right splash shield. Remove and retain the splash shield and the five bolts for reassembly.



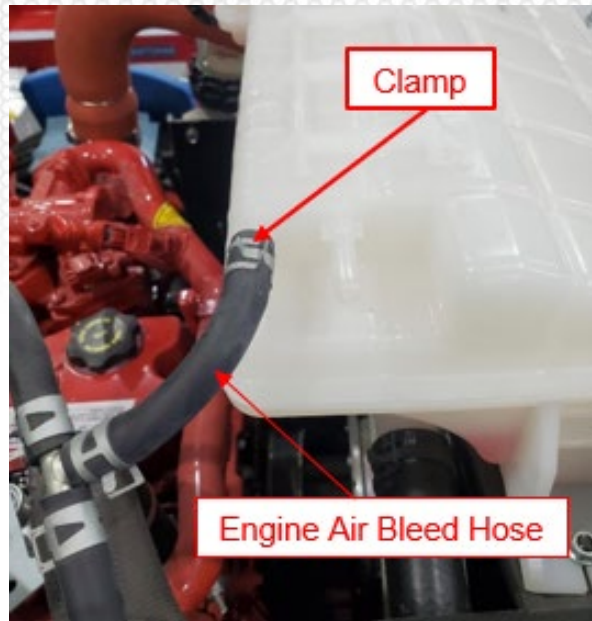
5. Remove the clamp and the four nuts securing the air filter assembly. Remove and retain the air filter assembly, the clamp and the four nuts for reassembly.



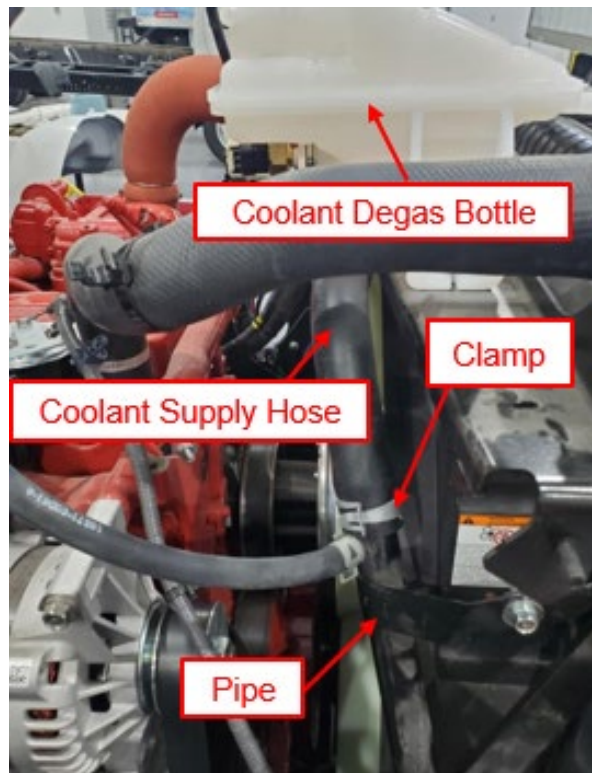
6. Remove the two clamps securing the radiator air bleed hose. Remove and discard the radiator air bleed hose and clamps.



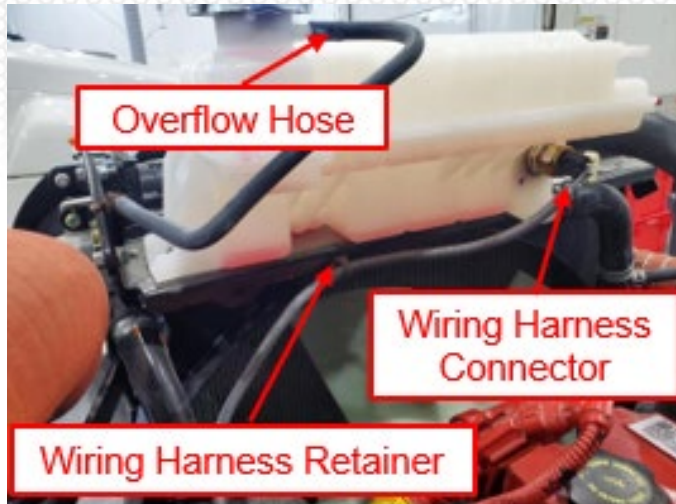
7. Remove the clamp securing the engine air bleed hose. Remove the engine air bleed hose from the coolant degas bottle and retain clamp for reassembly.



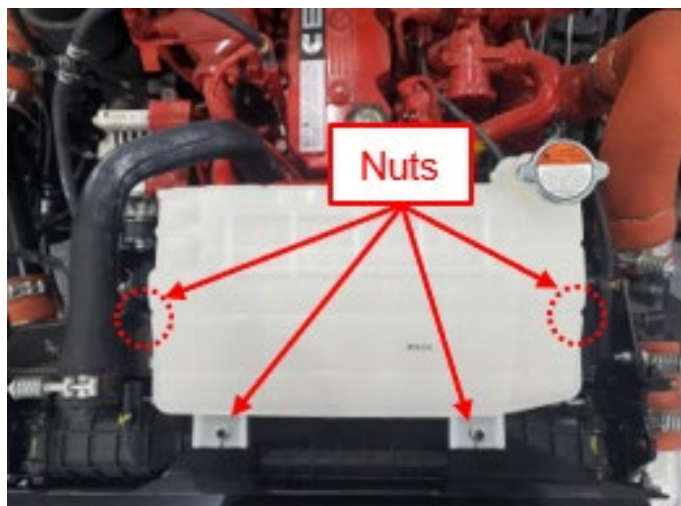
8. Remove the clamp securing the coolant supply hose. Remove the coolant supply hose from the pipe and retain the clamp for reassembly.



9. Remove the overflow hose from the coolant degas bottle and disconnect the wiring harness connector from the coolant sensor. Release the wiring harness retainer and place the wiring harness aside.

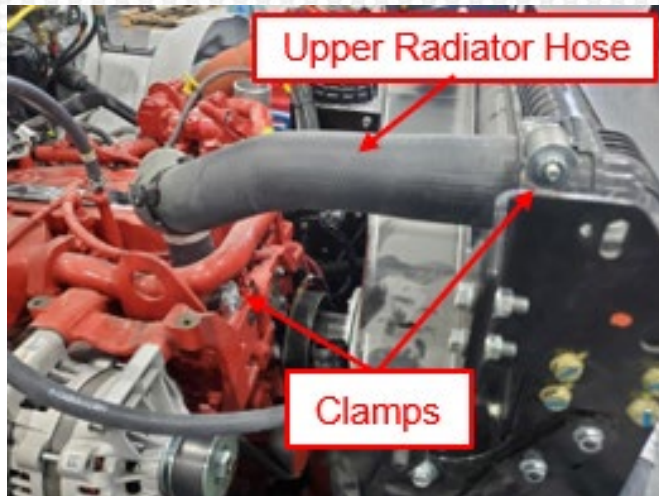


10. Remove the four nuts securing the coolant degas bottle. Remove and retain the coolant degas bottle and the four nuts for reassembly.

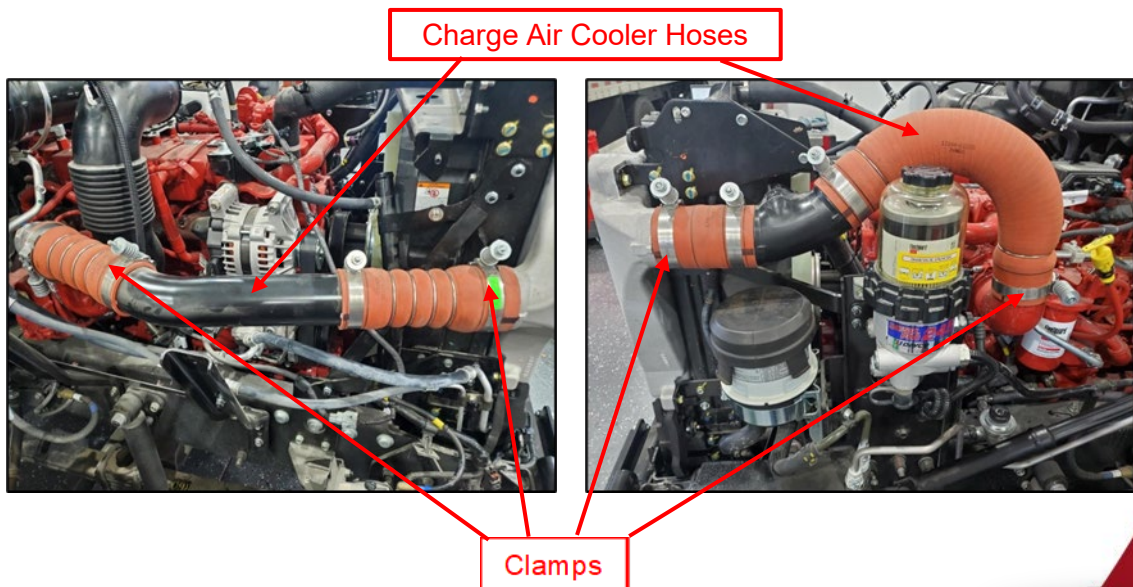


11. Remove the two clamps securing the upper radiator hose. Remove and discard the upper radiator hose and the clamps.

NOTICE: If vehicle is equipped with Gates Power Grip clamps follow the manufacturer recommendations for removal.



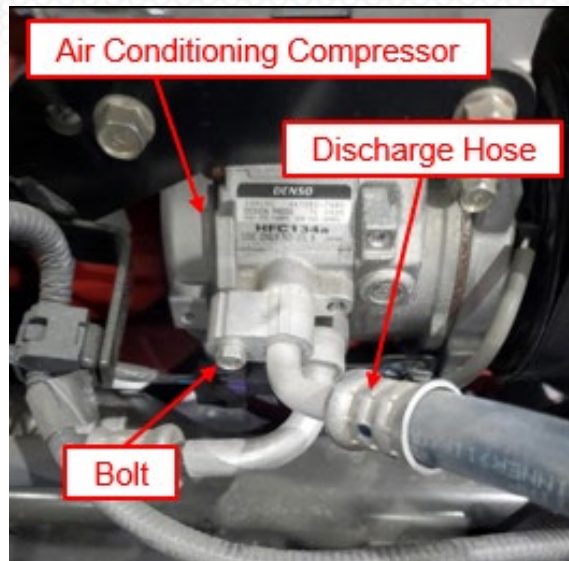
12. Remove the two clamps securing the charge air cooler hose. Remove and retain the charge air cooler hose and the two clamps for reassembly. Perform this step on both sides of the vehicle.



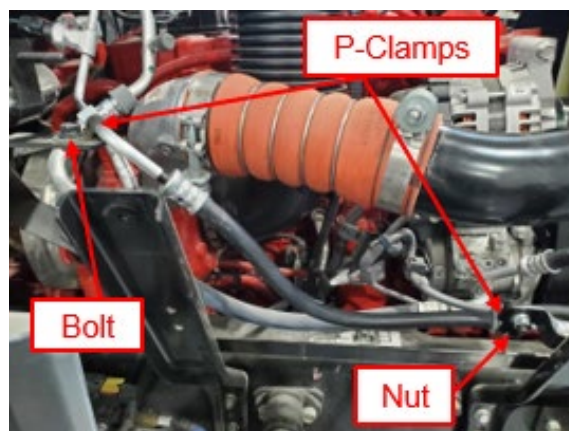
NOTICE: Cover the turbo outlet and engine inlet pipes to prevent foreign objects from entering the engine.

13. Remove the bolt securing the discharge hose to the air conditioning compressor. Remove the discharge hose and retain the bolt for reassembly.

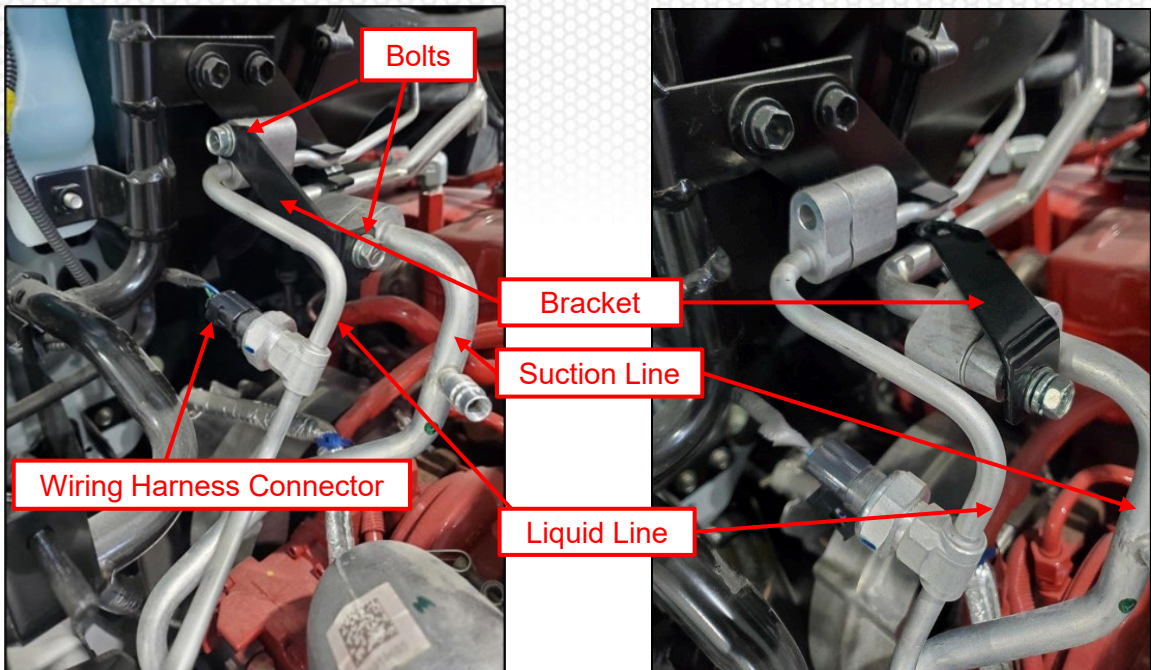
NOTICE: When performing repairs to an air conditioning system all connections should be sealed after removal to prevent contamination of the air conditioning system.



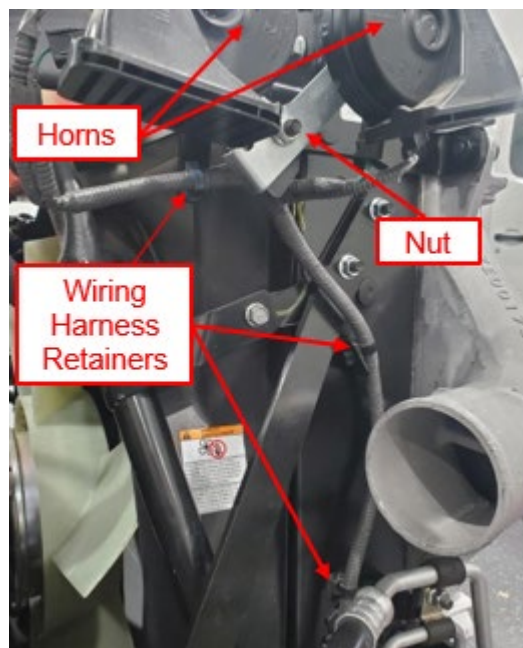
14. Remove the two nuts and two bolts securing the two liquid line P-Clamps. Remove and retain the two P-Clamps, the two nuts and the two bolts for reassembly.



15. . Disconnect the wiring harness connector from the pressure transducer. Remove and retain the bolt securing the liquid line. Loosen but do not remove the bolt securing the suction line. Move the bracket aside and remove the liquid line.

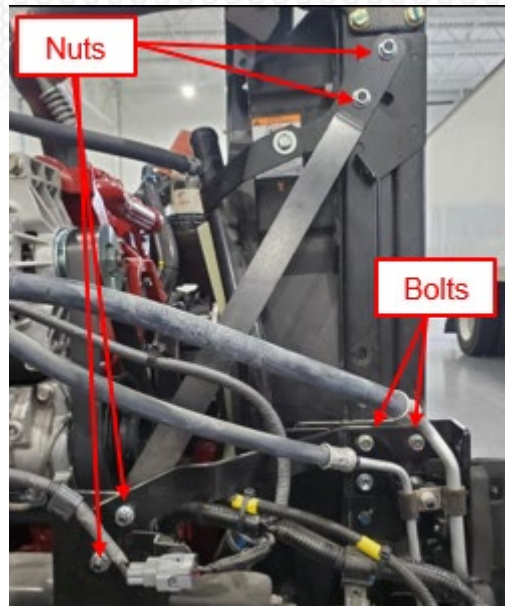


16. Remove the nut securing the horn and release the three wiring harness retainers. Place the horn assembly aside and retain the nut for reassembly.

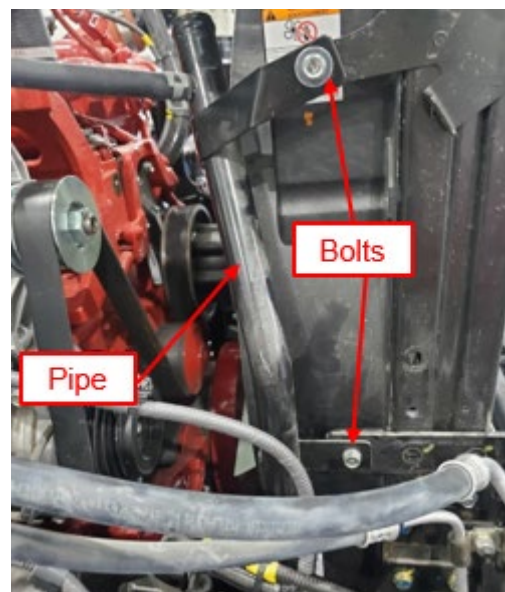


17. Remove the four nuts and the two bolts securing the radiator stays to the right side of the radiator. Remove and retain the two radiator stays and the four nuts for reassembly. Discard the two bolts.

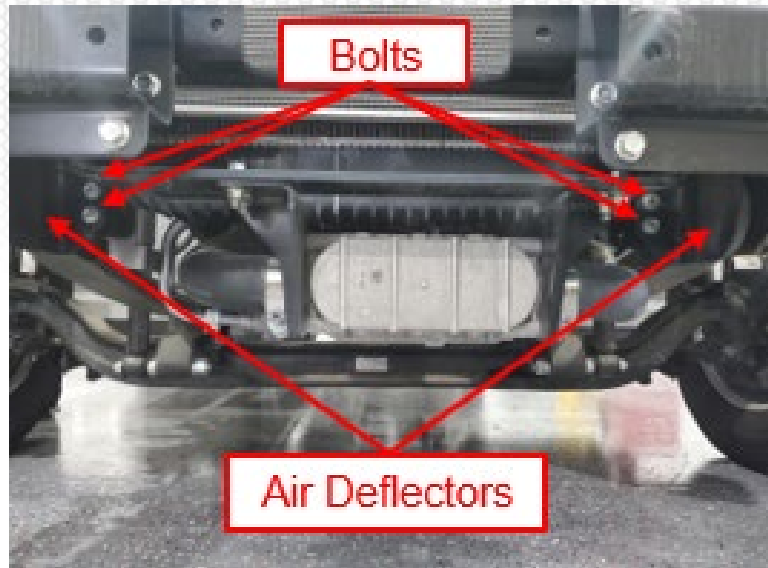
NOTICE: Intercooler removal is not required; it has been removed for clarity.



18. Remove the two bolts securing the pipe to the right side of the radiator. Place the pipe aside and retain the two bolts for reassembly.



19. Remove the four bolts securing the two air deflectors to the radiator. Remove and discard the two air deflectors and the four bolts.

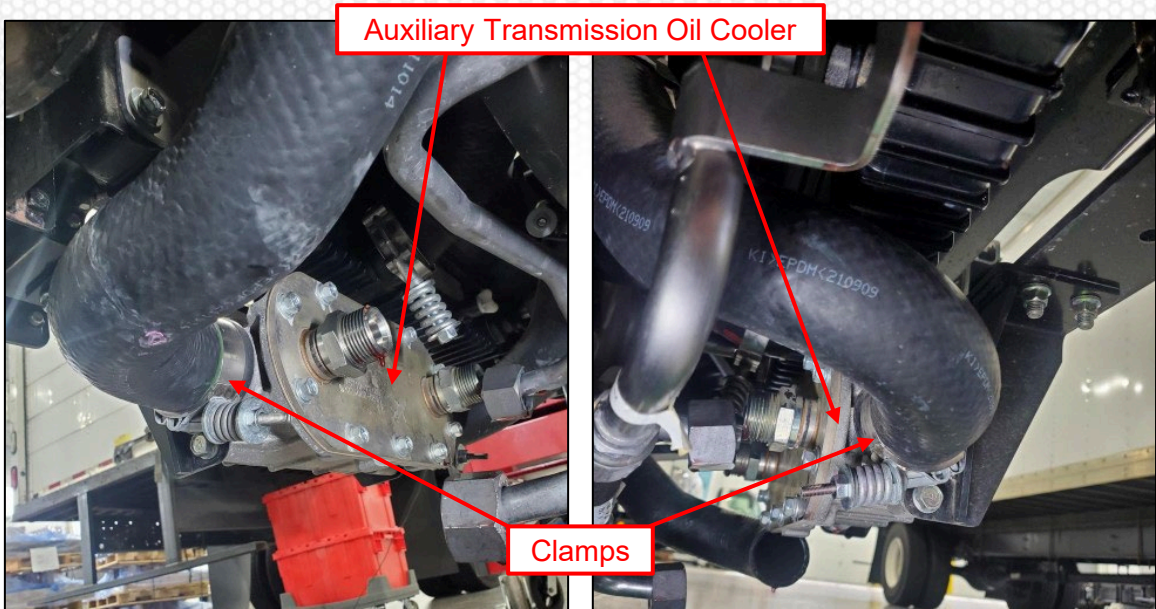


20. Using two wrenches, hold the adapter fitting and remove the transmission oil cooler line from the auxiliary transmission oil cooler. Perform this procedure on both transmission oil cooler lines.

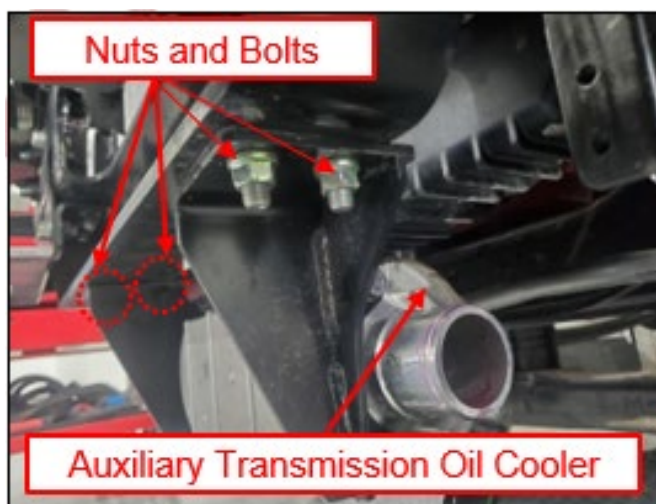
NOTICE: Use a drain pan to catch the transmission fluid.



21. Remove the clamp securing the radiator hose to the left side of the auxiliary transmission oil cooler. Remove the hose, drain the remaining engine coolant and discard the clamp. Repeat this procedure on the right side of the auxiliary transmission oil cooler.

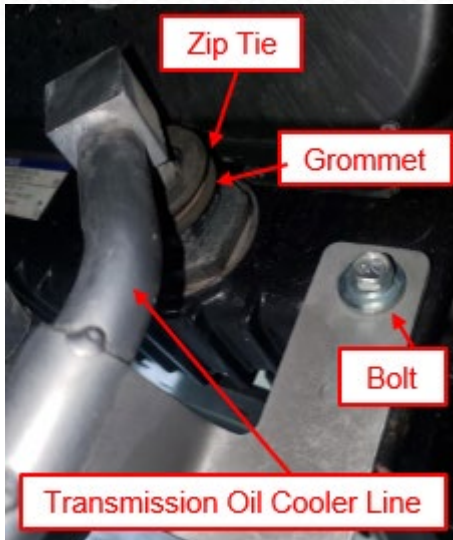


22. Remove the four nuts and bolts securing the auxiliary transmission oil cooler. Remove and discard the auxiliary transmission oil cooler, the four nuts and bolts.

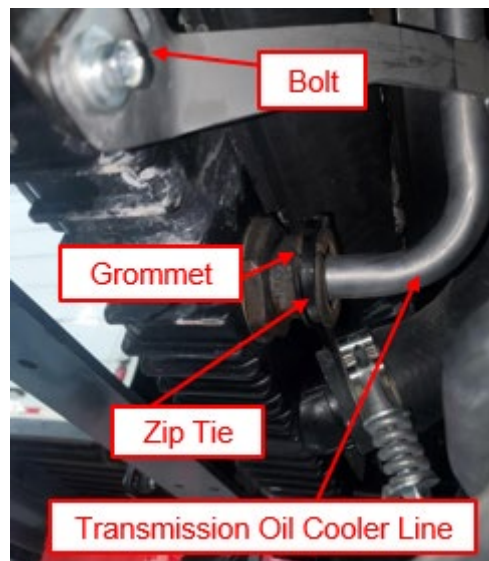


23. Remove the bolt securing the transmission oil cooler line to the right side of the radiator. Cut the zip tie, remove the grommet and remove the retaining wire from the quick connect fitting. Remove and discard the transmission oil cooler line, the bolt and the retaining wire. Retain the grommet for reassembly.

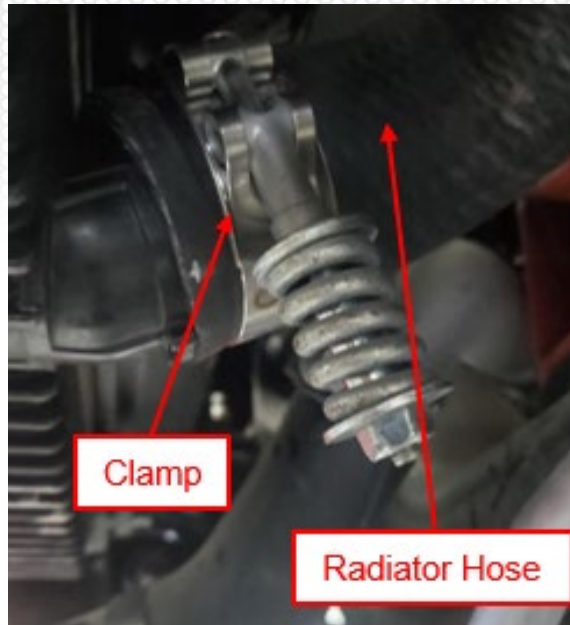
NOTICE: Insert a pick tool near the end of the retaining wire to remove.



24. Remove the bolt securing transmission oil cooler line to the left side of the radiator. Cut the zip tie, remove the grommet and remove the retaining wire from the quick connect fitting. Disconnect the transmission oil cooler line, discard the bolt and the retaining wire. Retain the grommet for reassembly.



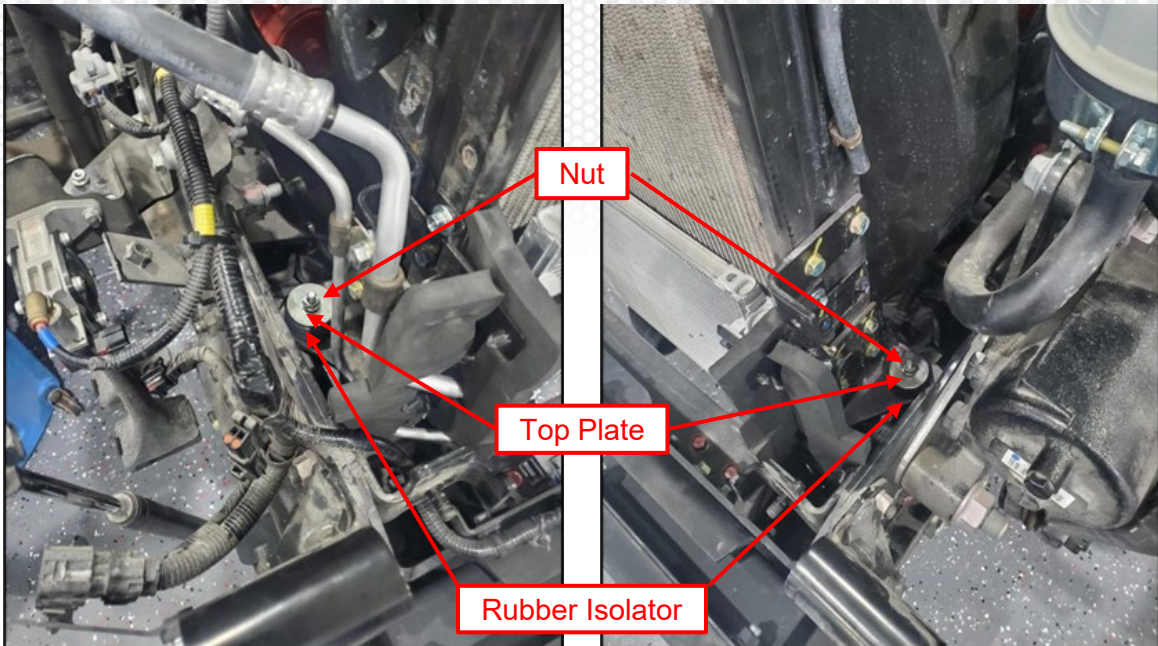
25. Remove the clamp securing the lower radiator hose to the radiator. Remove the hose from the radiator and discard the clamp.



26. Remove the four nuts securing the radiator stay to the left side of the radiator. Remove and retain the radiator stay and the four nuts for reassembly.



27. Remove and discard the nut securing the radiator to the lower radiator mount. Remove and discard the top plate and the rubber isolator. Perform this procedure on both sides of the radiator.



28. Lift and slide the cooling module forward until the fan shroud is clear of the cooling fan. Remove the cooling module from the vehicle but do not discard.

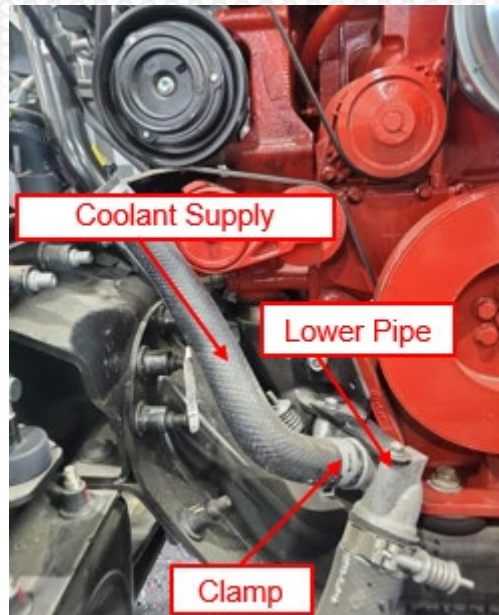
NOTICE: The cooling module is an assembly of the radiator, CAC (Charge Air Cooler), A/C Condenser and related brackets and bolts/nuts.

NOTICE: Items will be removed and transferred to the supplied cooling module.

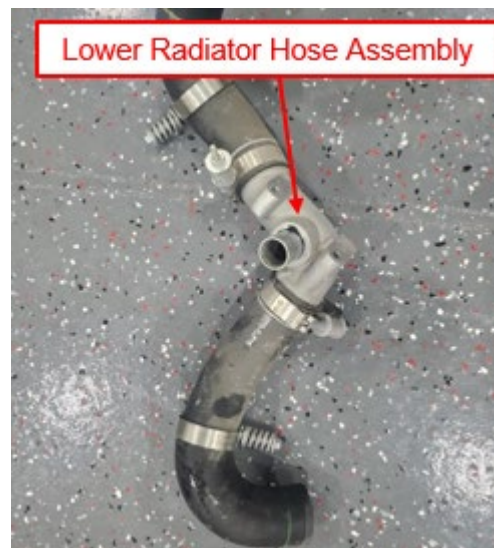
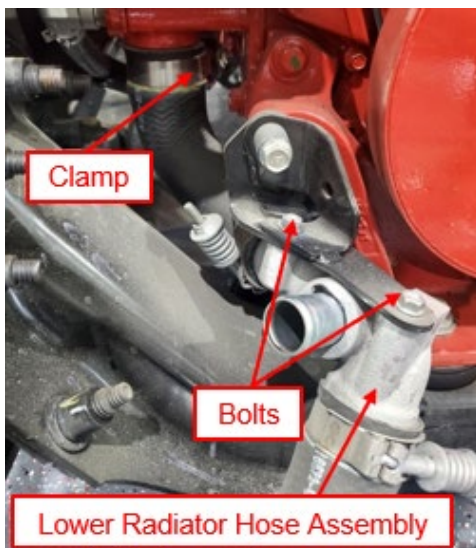


29. Remove the clamp securing the coolant supply hose to the lower pipe. Remove the coolant supply hose and retain the clamp for reassembly.

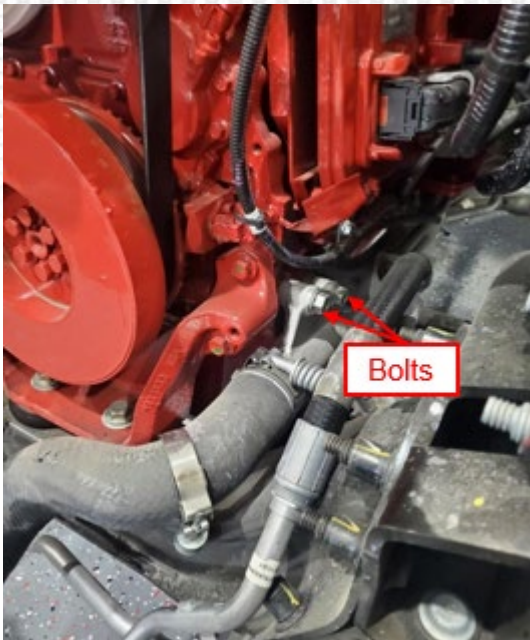
NOTICE: Radiator cooling fan removal is not required; it has been removed for clarity.



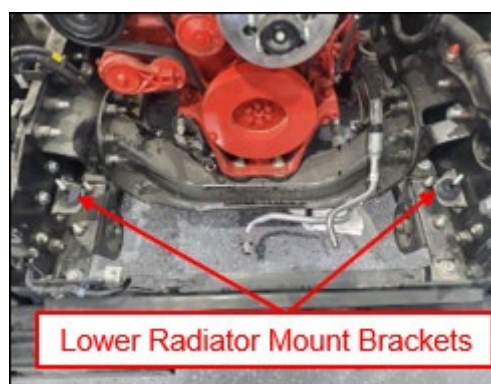
30. Remove the clamp securing the lower radiator hose to the engine. Remove the two bolts securing the lower pipe to the engine bracket. Remove and discard the lower radiator hose assembly and clamp. Retain the two bolts for reassembly.



31. Remove the two bolts securing the lower coolant pipe to the engine. Remove and discard the lower radiator hose assembly and the two bolts.

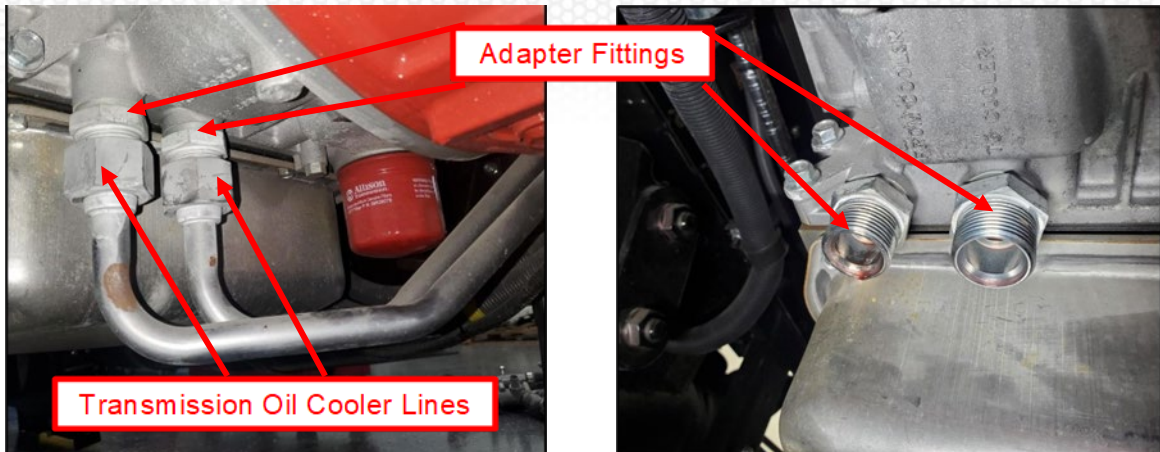


32. Remove the two nuts and bolts securing the lower radiator mount bracket. Remove and discard the lower radiator mount bracket and retain the two bolts and nuts for reassembly. Perform this procedure on both sides of the vehicle

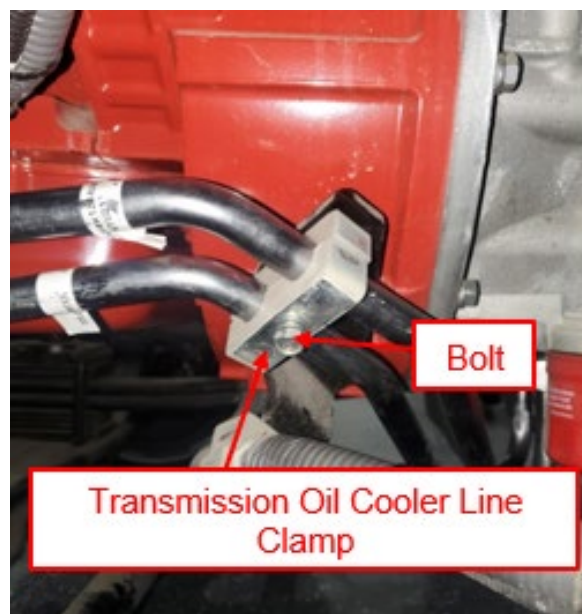


33. Using two wrenches, hold the adapter fitting and remove the transmission oil cooler line from the transmission. Remove and discard the adapter fitting. Perform this procedure on both transmission oil cooler lines.

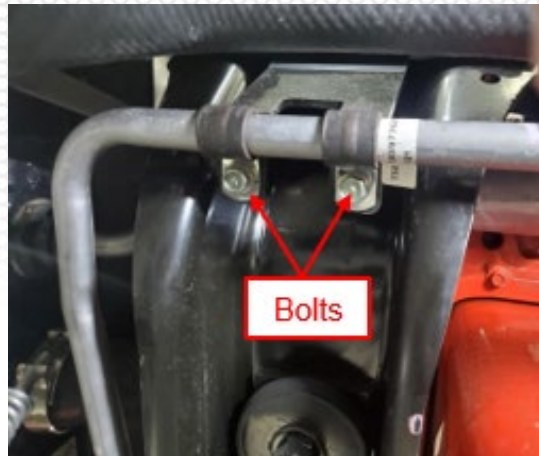
NOTICE: Use a drain pan to catch the transmission fluid.



34. Remove the bolt securing the transmission oil cooler line clamp at the rear of the engine. Remove and retain the clamp and the bolt for reassembly.



35. Remove and discard the two bolts securing the transmission oil cooler line P-clamps to the engine crossmember.



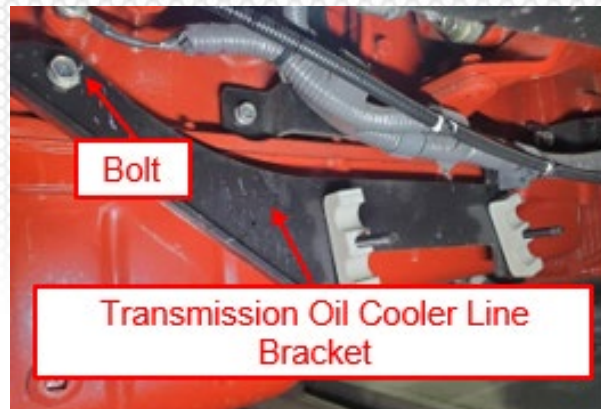
36. Remove the two nuts securing the transmission oil cooler line clamps to the bracket on the left side of the engine. Remove and discard the transmission oil cooler lines and the clamps. Retain the two nuts for reassembly.



37. Release the wiring harness clamp and remove and retain the bolt securing the rear of the transmission oil cooler line bracket.



38. Remove the bolt securing the front of the transmission oil cooler line bracket. Remove and discard the bracket and the bolt.



39. Remove the two nuts securing the transmission oil cooler line bracket to the engine crossmember. Remove and discard the bracket and the two nuts.



40. Install the two supplied adapter fittings (P/N 47374EW050) in the transmission. Tighten the fittings to the specified torque.

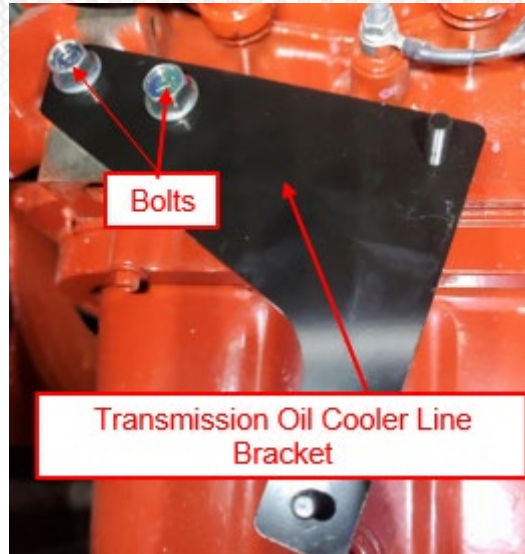
Specified Torque: 46 Ft-lb (62 Nm)

NOTICE: Lubricate the O-ring with transmission fluid before installation.



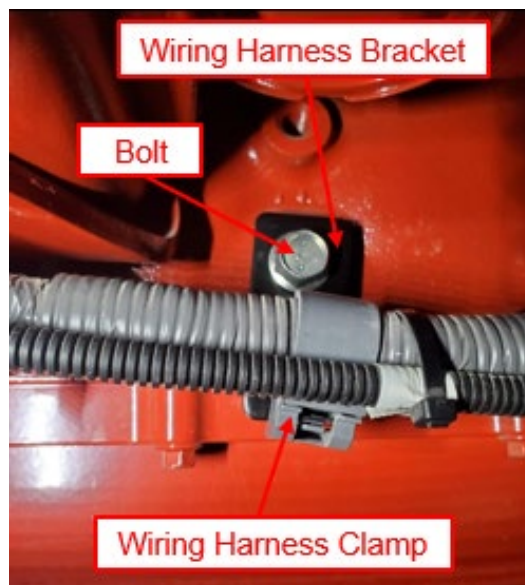
41. Install the supplied transmission oil cooler line bracket (P/N 32923EW050) on the left front of the engine block just above the engine oil pan using the two supplied bolts (P/N SH55211230). Tighten the two bolts to the specified torque.

Specified Torque: 51 Ft-lb (70 Nm)

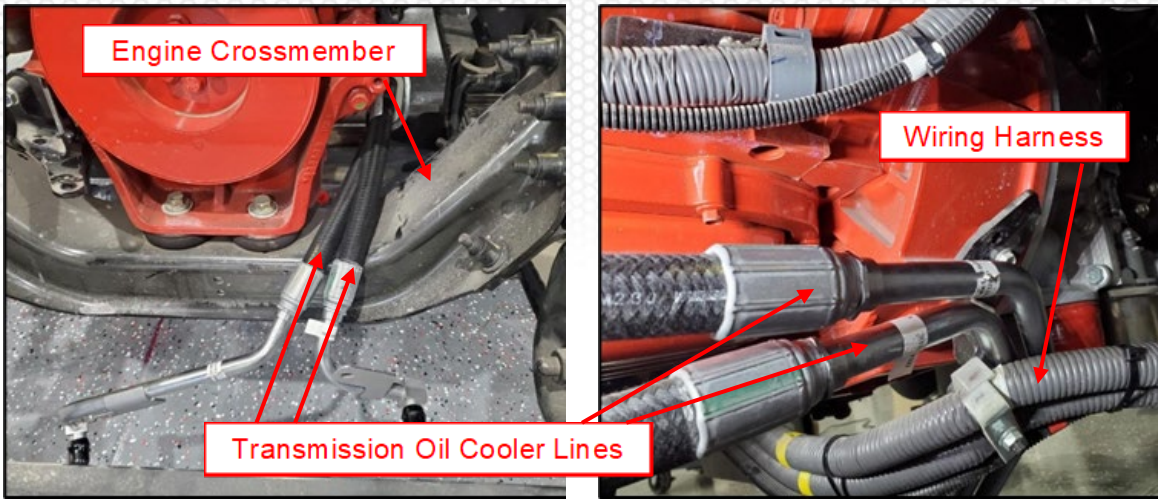


42. Install the supplied wiring harness bracket (P/N 82715E6J80) on the left side and near center of the engine block just above the engine oil pan using the bolt removed in Step 37. Tighten the bolt to the specified torque. Install the wiring harness clamp removed in Step 37.

Specified Torque: 51 Ft-lb (70 Nm)

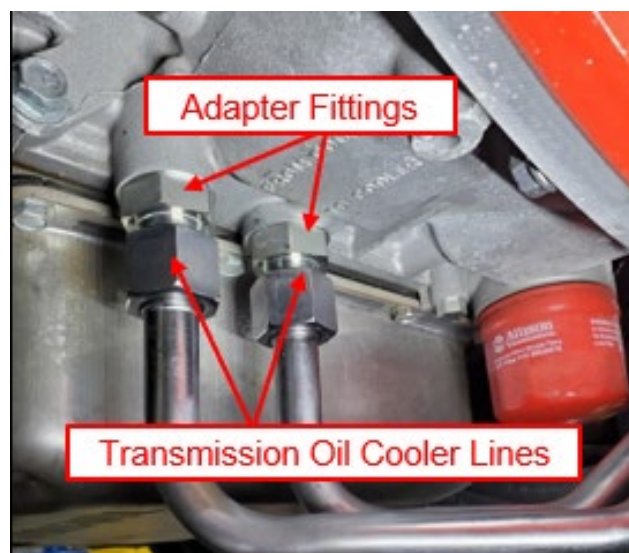


43. Position the supplied transmission oil cooler lines above the engine crossmember and above the wiring harness at the rear of the engine.



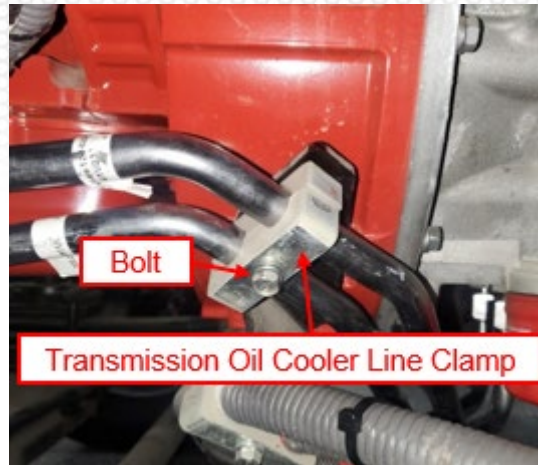
44. Apply Loctite 545 to the threads and install but do not tighten the transmission oil cooler lines to the adapter fittings installed in Step 40.

NOTICE: 2000 Series Allison transmission shown.



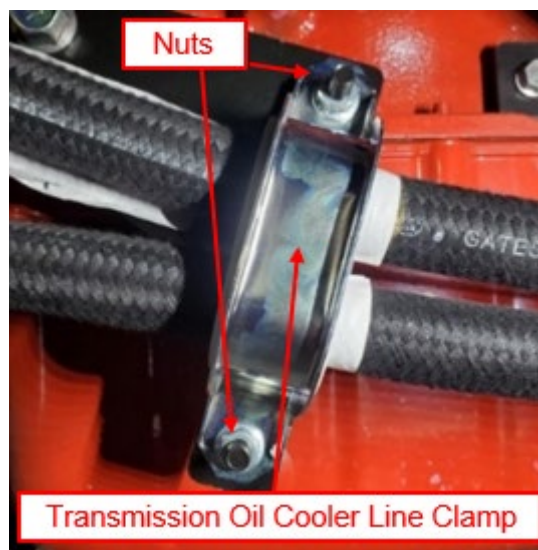
45. Install the transmission oil cooler line clamp and bolt removed in Step 34. Tighten the bolt to the specified torque.

Specified Torque: 8 Ft-lb (11 Nm)



46. Install the supplied transmission oil cooler line clamp (P/N 32908-E0010) on the transmission oil cooler line bracket using the two nuts removed in Step 36. Tighten the two nuts to the specified torque.

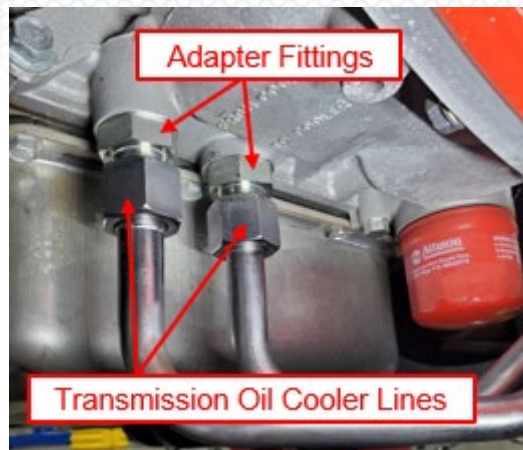
Specified Torque: 16 Ft-lb (22 Nm)



47. Using two wrenches, hold the adapter fitting and tighten the transmission cooler line to the specified torque. Perform this procedure on both transmission oil cooler lines.

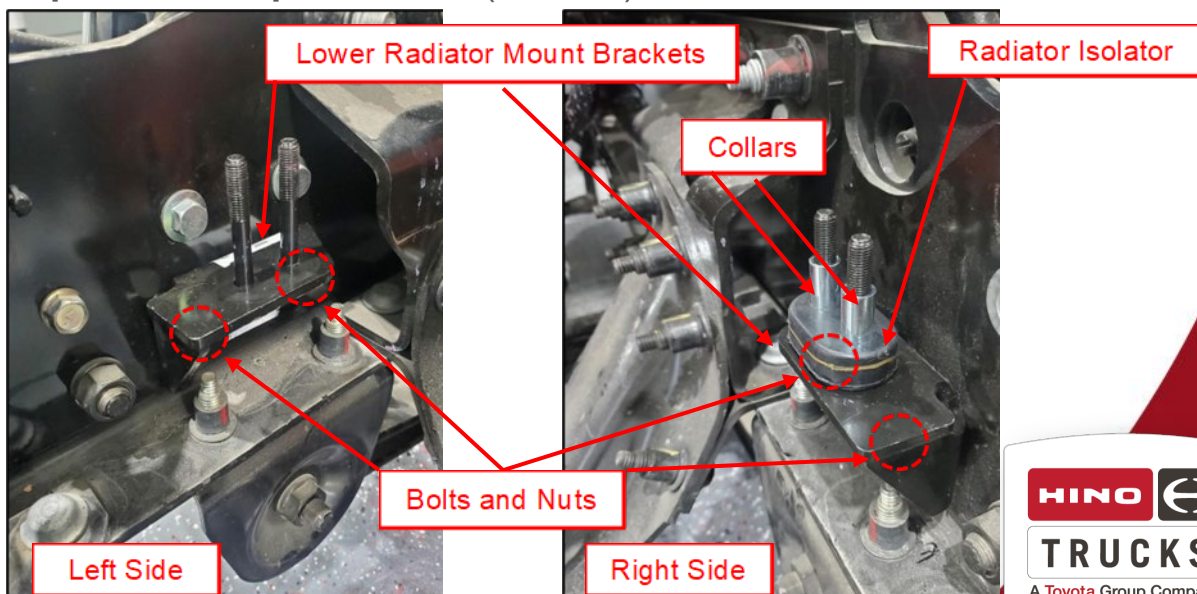
Specified Torque: 89 Ft-lb (120 Nm)

NOTICE: Do not allow the adapter fitting to rotate while torquing the transmission oil cooler line.



48. Install the supplied lower radiator mount brackets (Right Side - P/N S160BEW070 / Left Side - P/N S160BEW080) using the four bolts and nuts removed in Step 32. Torque four nuts to the specified torque. Install two collars (P/N 16445EW011) and one radiator isolator (P/N16523EW010) on each lower radiator mount bracket.

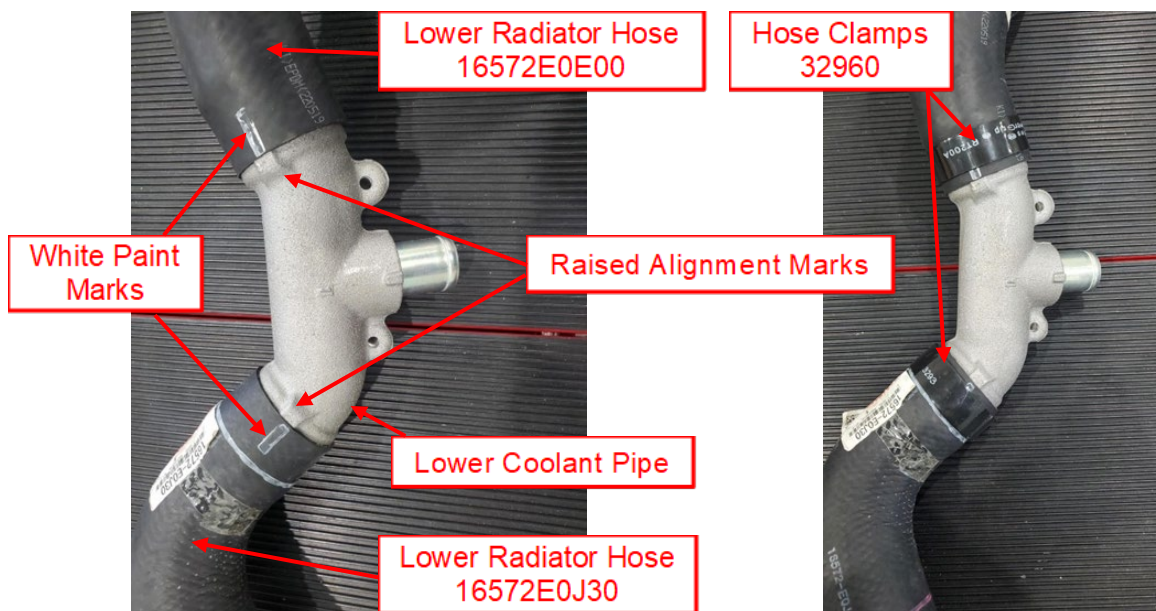
Specified Torque: 88 Ft-lb (119 Nm)



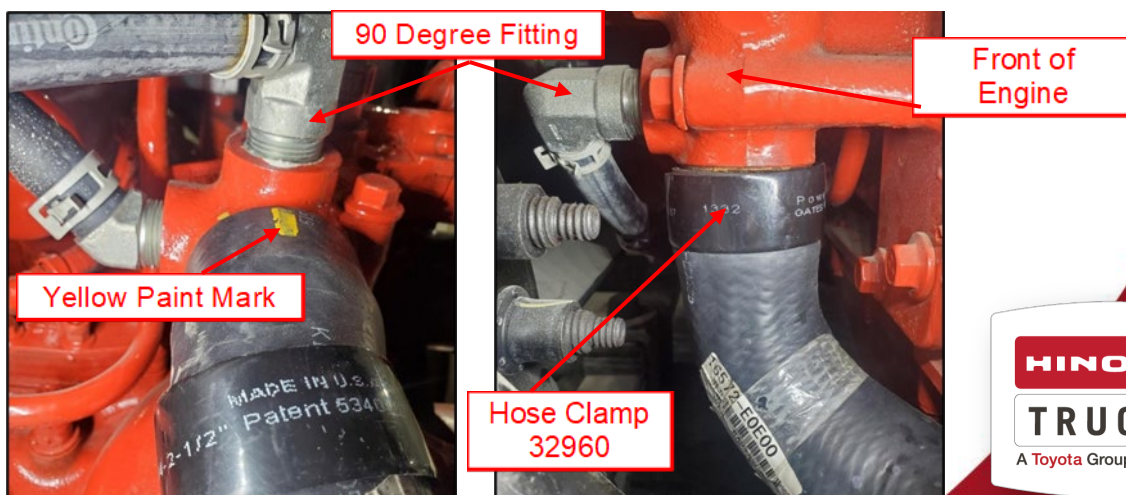
49. Install the supplied lower radiator hoses (P/N 16572E0E00 and P/N 16572E0J30) on the supplied lower coolant pipe (P/N 16577E0770). Position the white paint marks as shown and install the supplied hose clamps (P/N 32960). Use a heat gun to shrink the hose clamps.

NOTICE: Ensure both hoses are installed in the correct location and orientated properly before installing the clamps.

NOTICE: Follow all manufacturer recommendations for Gates Power Grip hose clamp installation.

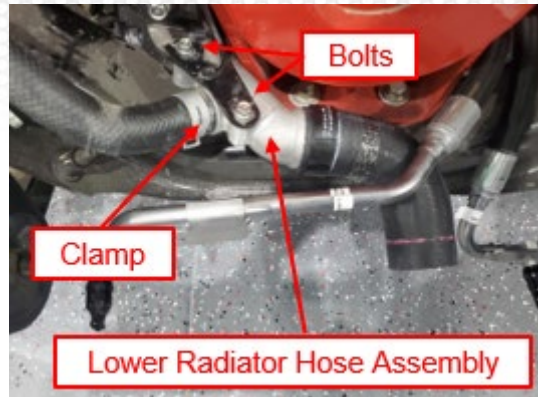


50. Install the lower radiator hose (P/N16572E0E00) on the engine. Align the yellow paint mark with the 90 degree fitting as shown and install the supplied clamp (P/N 32960). Use a heat gun to shrink the clamp.



51. Install the lower radiator hose assembly to the engine bracket using the two bolts removed in Step 30. Tighten the two bolts to the specified torque. Install the coolant supply hose and clamp removed in Step 29.

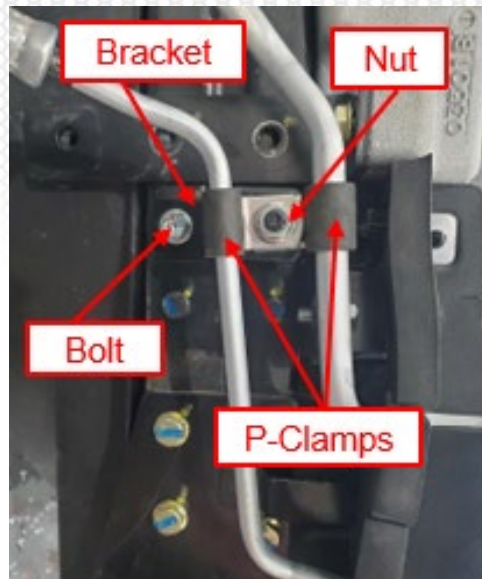
Specified Torque: 16 Ft-lb (22 Nm)



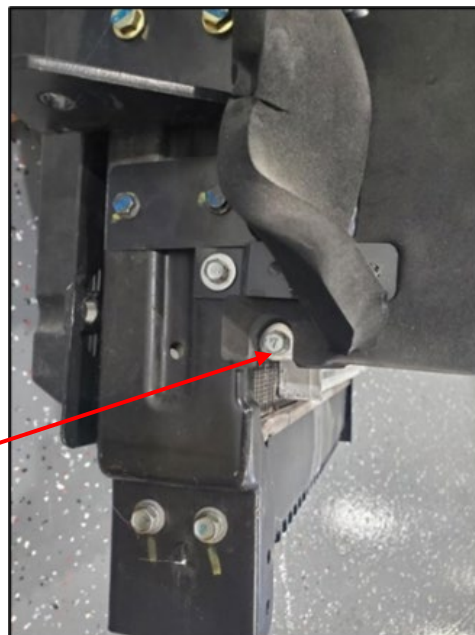
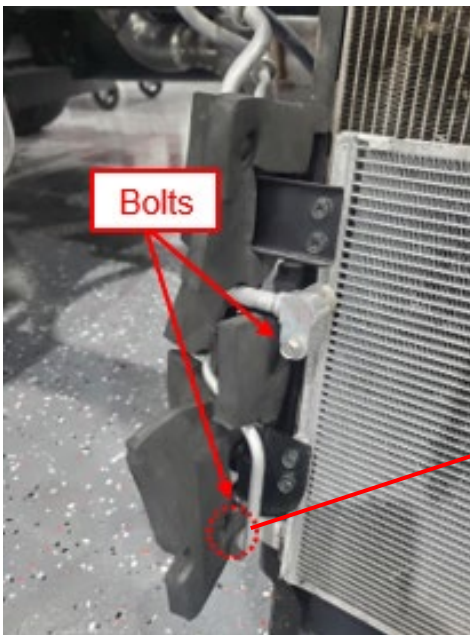
52. Install the supplied upper radiator hose (P/N 16571EW411) on the engine. Align the white paint mark to the front of the engine and install the supplied hose clamp (P/N 32954). Use a heat gun to shrink the clamp.



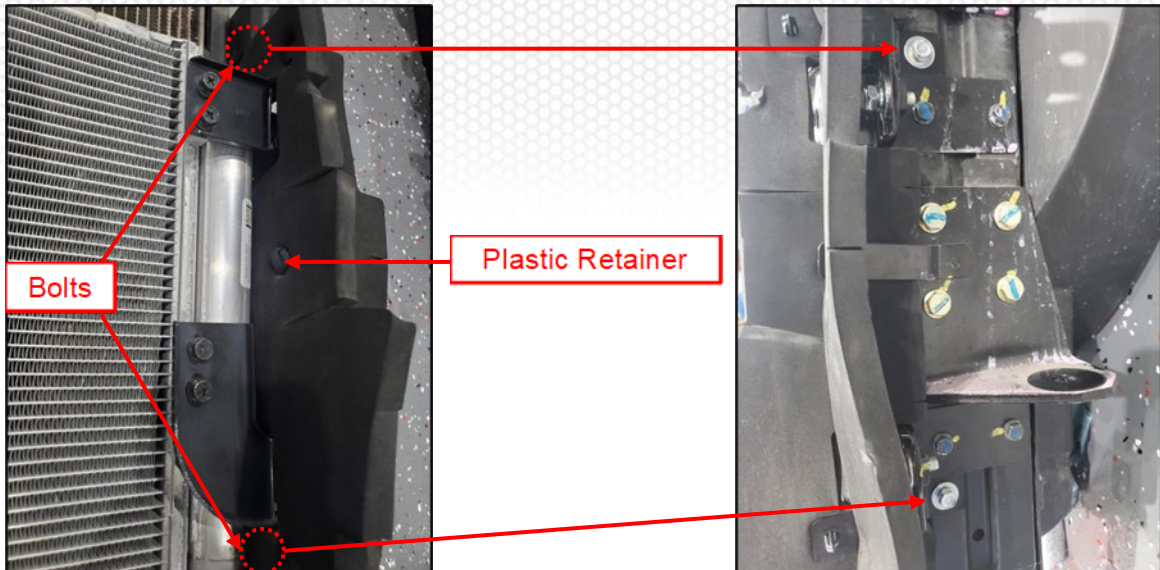
53. . Remove the nut and the bolt securing the air conditioning lines to the cooling module removed in Step 28. Remove and retain the two P-Clamps, the nut and the bolt for reassembly. Discard the bracket.



54. Remove the two bolts securing the discharge hose and the liquid line to the condenser. Remove and discard the discharge hose and the liquid line. Retain the two bolts for reassembly.

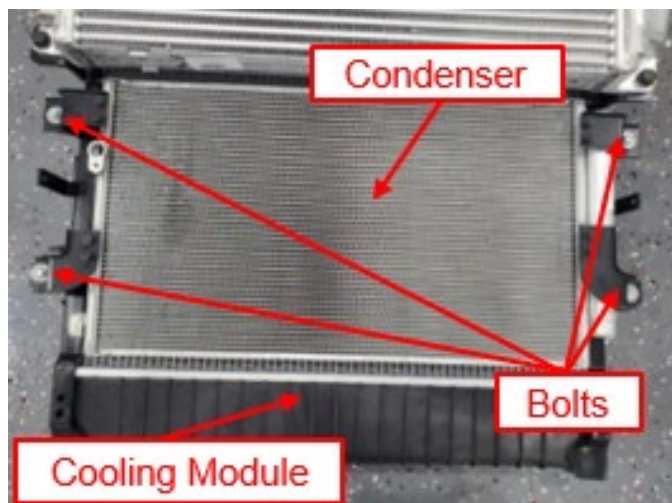


55. Remove the plastic retainer and the two bolts securing the foam air deflector to the cooling module. Remove and retain the foam air deflector and the plastic retainer for reassembly. Discard the two bolts. Perform this step on both air deflectors.



56. Remove the four bolts securing the condenser to the cooling module removed in Step 28. Transfer the condenser to the supplied cooling module (P/N S16A0EW201) and install using the four bolts. Tighten the four bolts to the specified torque.

Specified Torque: 16 Ft-lb (22 Nm)



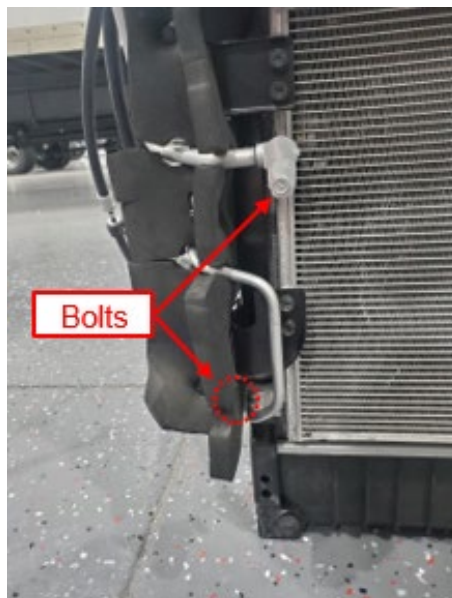
57. Install the foam air deflector and plastic retainer removed in Step 55 using the two supplied nuts (P/N SL15010606). Tighten the two bolts to the specified torque. Perform this step on both sides of the supplied cooling module.

Specified Torque: 7 Ft-lb (9.6 Nm)



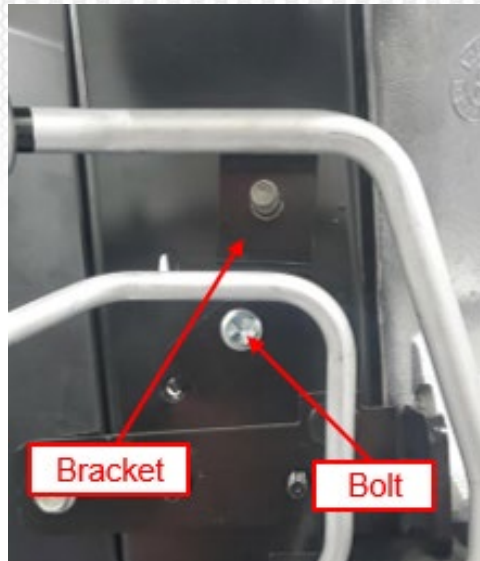
58. Install the supplied discharge hose (P/N 88711E0E60) and the supplied liquid line using the two bolts removed in Step 54. Tighten the two bolts to the specified torque.

Specified Torque: 6 Ft-lb (8 Nm)



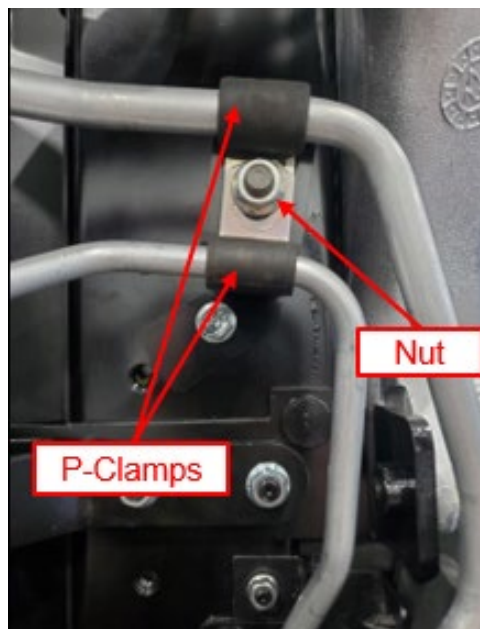
59. Install the supplied A/C line bracket (P/N 88688EW110) using the bolt removed in Step 53. Tighten the bolt to the specified torque.

Specified Torque: 16 Ft-lb (22 Nm)



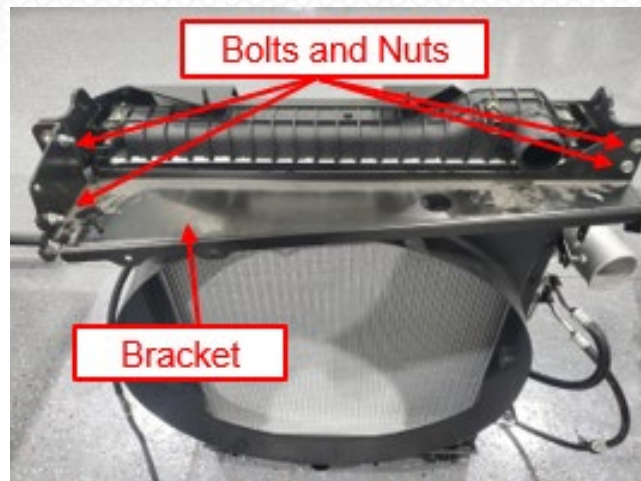
60. Install the two P-Clamps and the nut removed in Step 53. Tighten the nut to the specified torque.

Specified Torque: 10 Ft-lb (14 Nm)



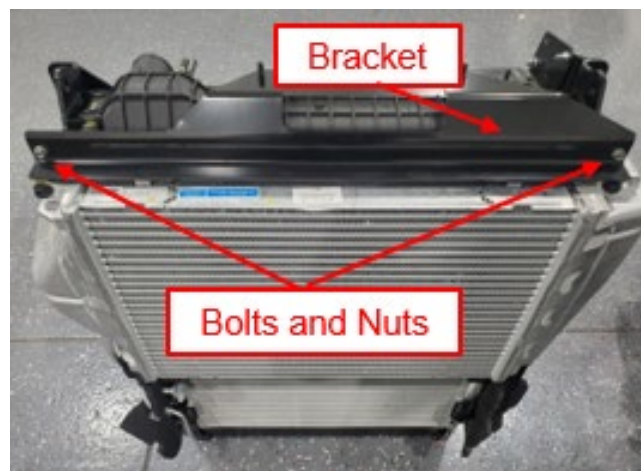
61. Remove the four bolts and nuts securing the coolant degas bottle bracket to the engine side of the cooling module removed in Step 28. Transfer the bracket to the supplied cooling module and install using the four bolts and nuts. Tighten the four nuts to the specified torque.

Specified Torque: 16 Ft-lb (22 Nm)

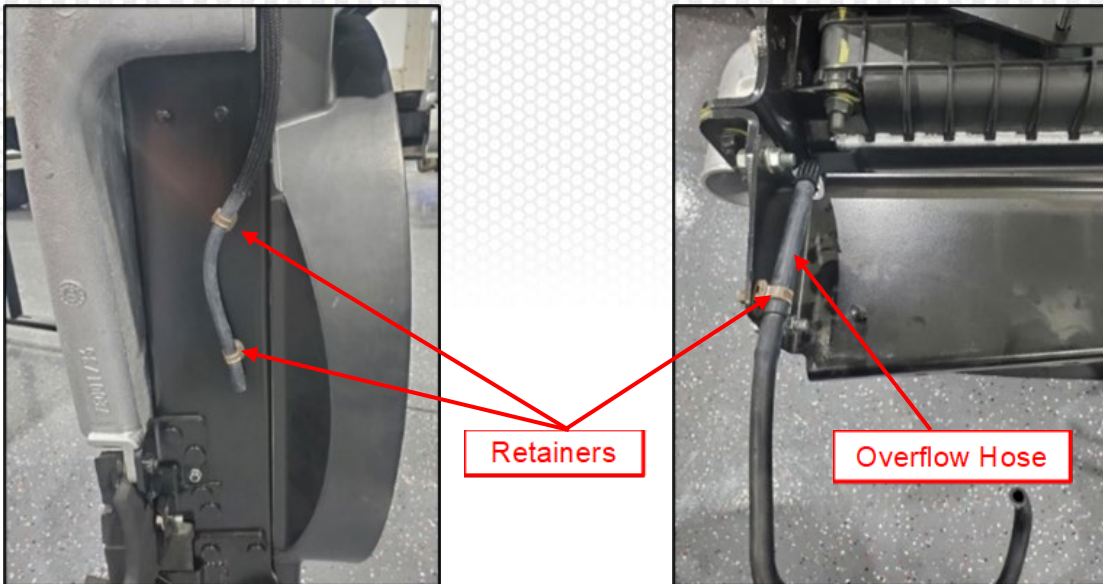


62. Remove the two bolts and nuts securing the coolant degas bottle bracket to the front of the cooling module removed in Step 28. Discard the bracket and use the two bolts and nuts to install the supplied coolant degas bottle bracket (P/N S160LEW140) to the front of the supplied cooling module. Tighten the two nuts to the specified torque.

Specified Torque: 16 Ft-lb (22 Nm)

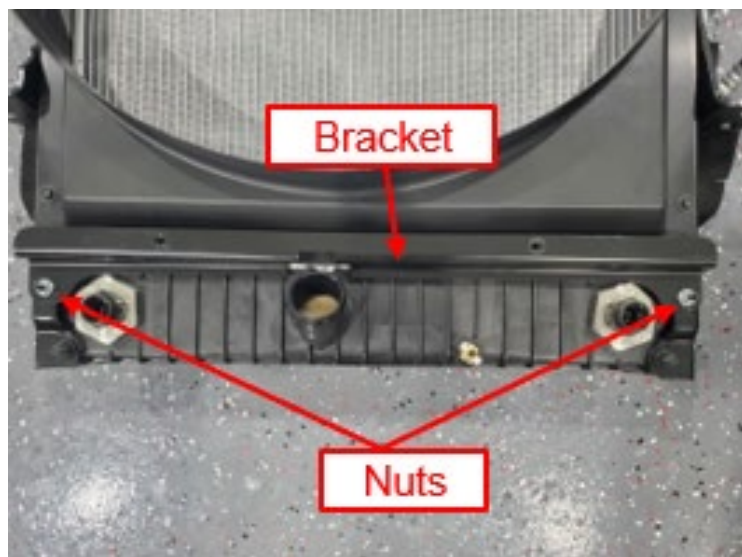


63. Install the supplied overflow hose (P/N 16503E0410) to the supplied cooling module and secure the three retainers.

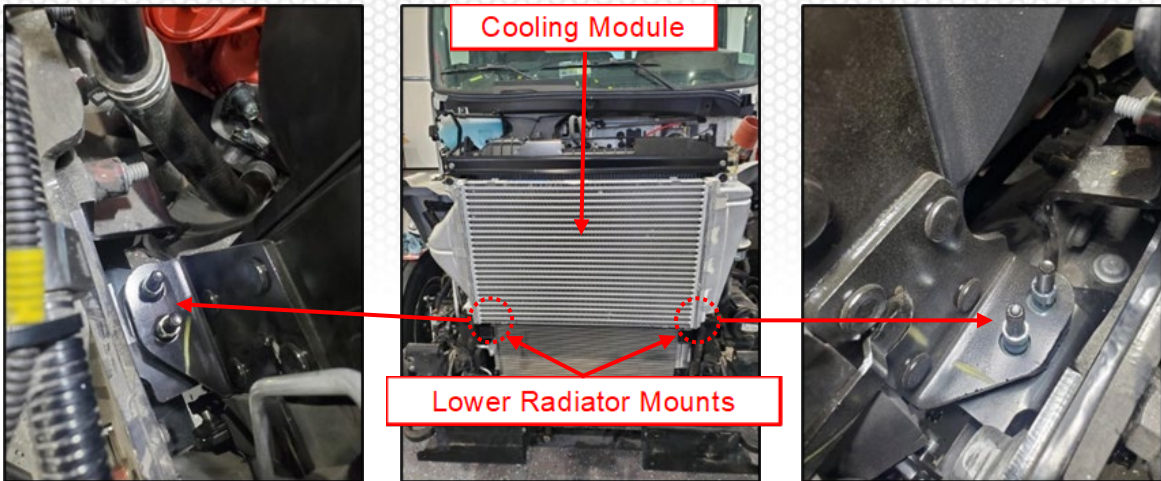


64. Install the supplied transmission oil cooler line bracket (P/N 32923EW060) to the bottom of the supplied cooling module using the two supplied nuts (P/N 9415180800). Tighten the two nuts to the specified torque.

Specified Torque: 21 Ft-lb (29 Nm)

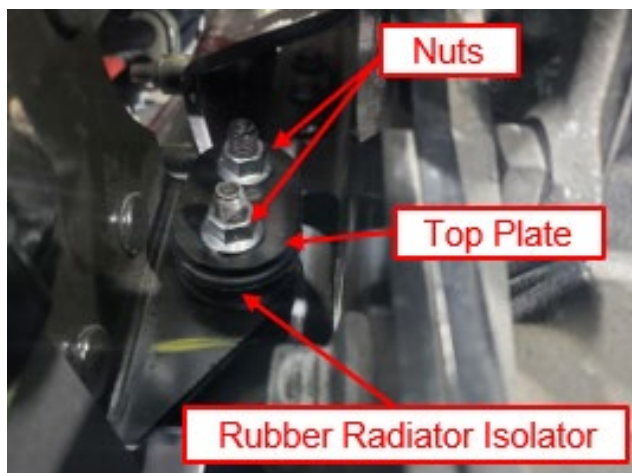


65. Install the cooling module assembly on the lower radiator mounts installed in Step 48.



66. Install one supplied radiator isolator (P/N16523EW010) and one supplied top plate (P/N 16721EW010) on the lower radiator mount and secure with two supplied nuts (P/N 9415181001). Tighten the two nuts to the specified torque. Repeat this procedure on both sides of the radiator.

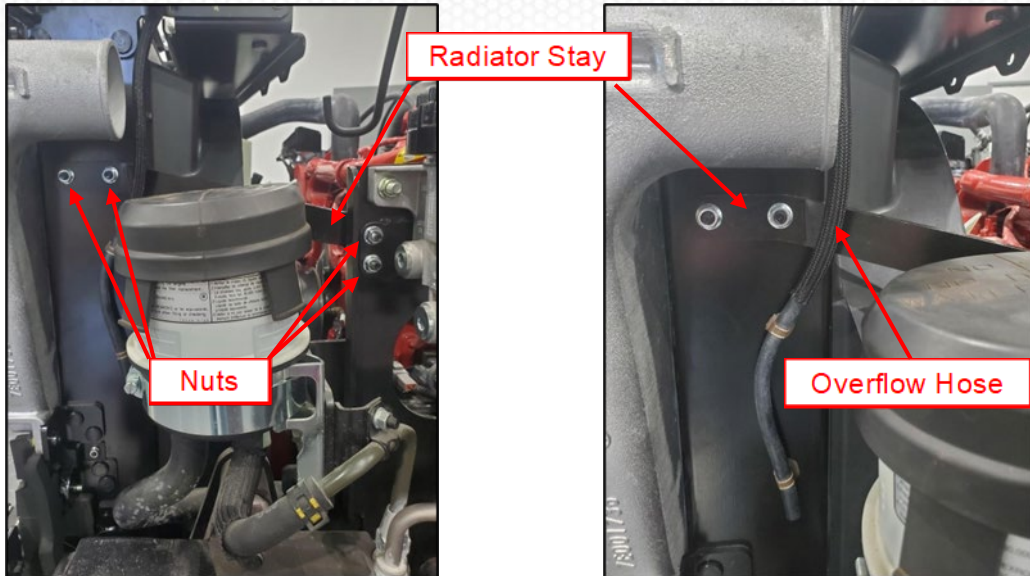
Specified Torque: 26 Ft-lb (36 Nm)



67. Install the left radiator stay and the four nuts removed in Step 26. Tighten the four nuts to the specified torque.

Specified Torque: 23 Ft-lb (31 Nm)

NOTICE: Ensure the radiator stay is installed behind the coolant overflow hose.

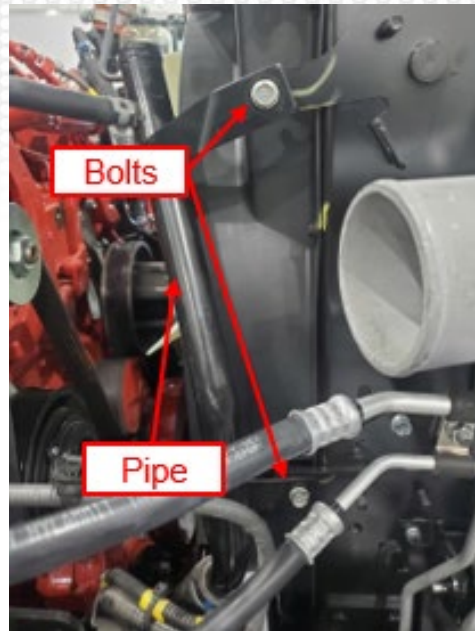


68. Install the supplied fan caution label (P/N 16793EW010) on the left side of the fan shroud as shown.



69. Install the pipe and the two bolts removed in Step 18. Tighten the two bolts to the specified torque.

Specified Torque: 16 Ft-lb (22 Nm)



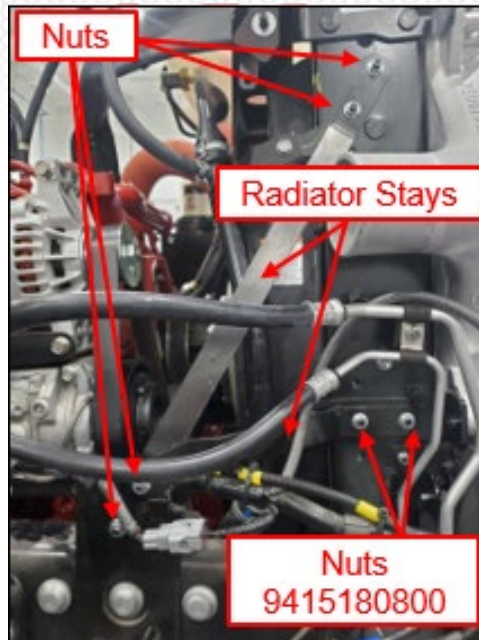
70. Install the supplied fan caution label (P/N 16793EW010) on the right side of the fan shroud as shown.

Specified Torque: 23 Ft-lb (31 Nm)



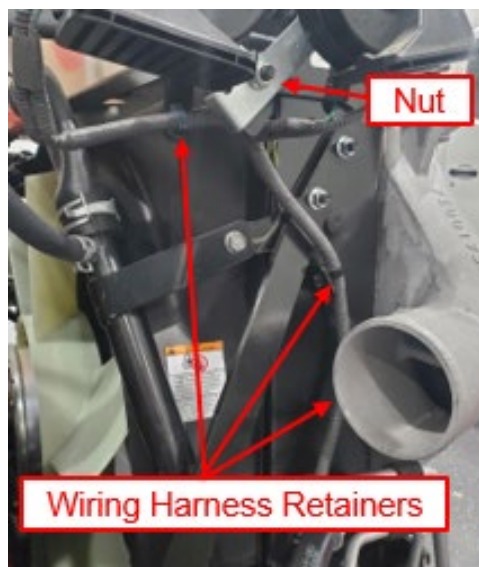
71. Install the right radiator stays and the four nuts removed in Step 17. Tighten the four nuts to the specified torque. Install the two supplied nuts (P/N 9415180800) as shown. Tighten the two nuts to the specified torque.

Specified Torque: 23 Ft-lb (31 Nm)



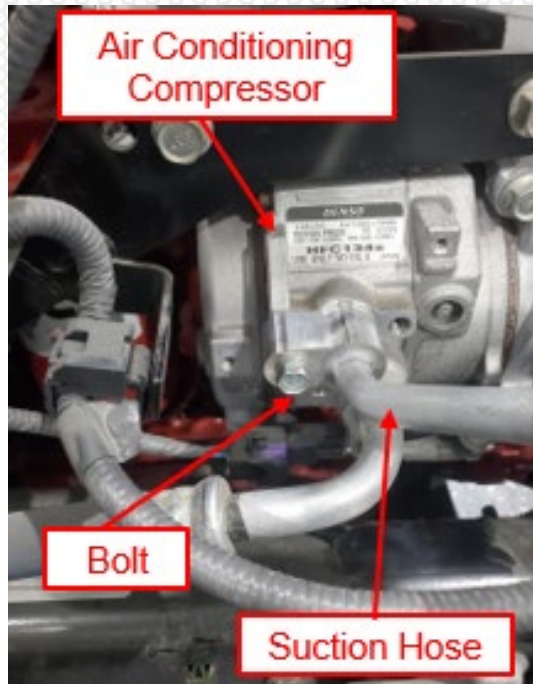
72. Install the horn, the nut and the three wiring harness retainers removed in Step 16. Tighten the nut to the specified torque.

Specified Torque: 16 Ft-lb (22 Nm)

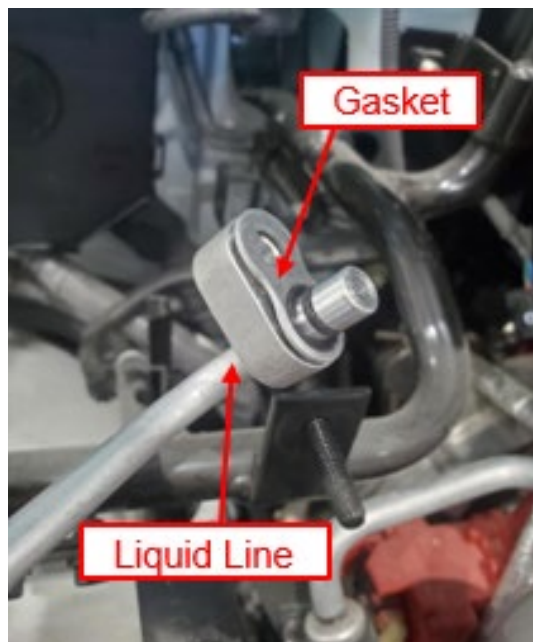


73. Install the suction hose to the air conditioning compressor using the bolt removed in Step 13. Tighten the bolt to the specified torque.

Specified Torque: 6 Ft-lb (8 Nm)

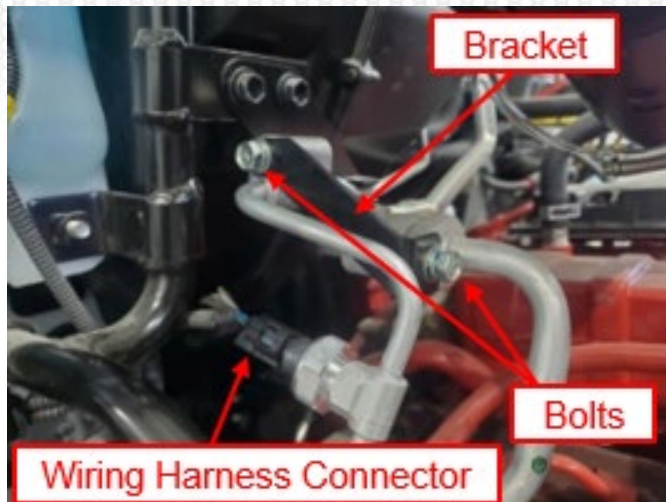


74. Install the supplied gasket (P/N 88362EW050) on the liquid line.



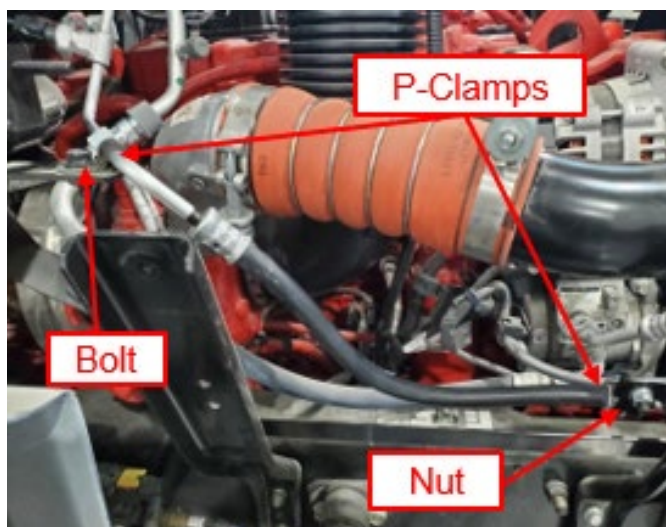
75. Install the liquid line using the bolt removed in Step 15. Tighten the two bolts to the specified torque. Install the pressure transducer wiring harness connector.

Specified Torque: 10 Ft-lb (14 Nm)



76. . Install the two P-Clamps, the bolt and the nut removed in Step 14. Tighten the two nuts to the specified torque.

Specified Torque: 10 Ft-lb (14 Nm)



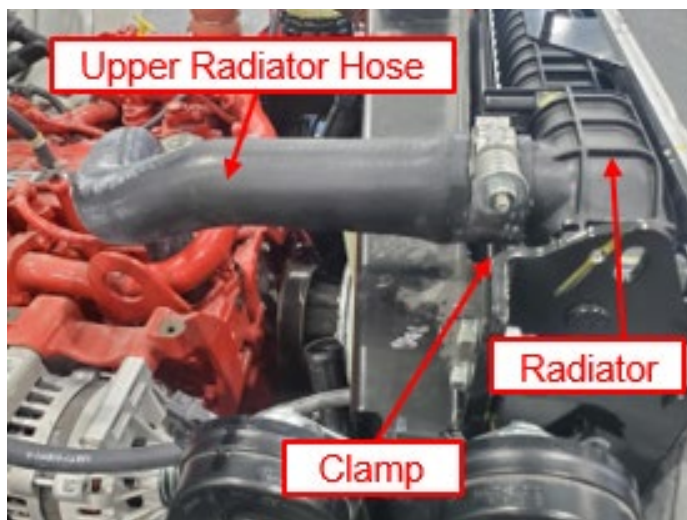
77. Install the charge air cooler hose and clamps removed in Step 12. Tighten the clamps to the specified torque. Perform this step on both sides of the vehicle.

Specified Torque: 5 Ft-lb (7 Nm)



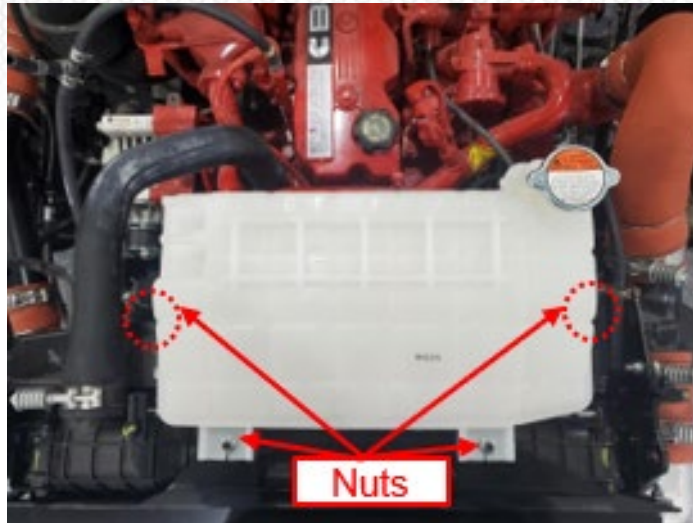
78. Install the upper radiator hose on the radiator using the supplied clamp (P/N 000848038). Tighten the clamp to the specified torque.

Specified Torque: 5 Ft-lb (7 Nm)



79. Install the coolant degas bottle and the four nuts removed in Step 10. Tighten the four nuts to the specified torque.

Specified Torque: 16 Ft-lb (22 Nm)



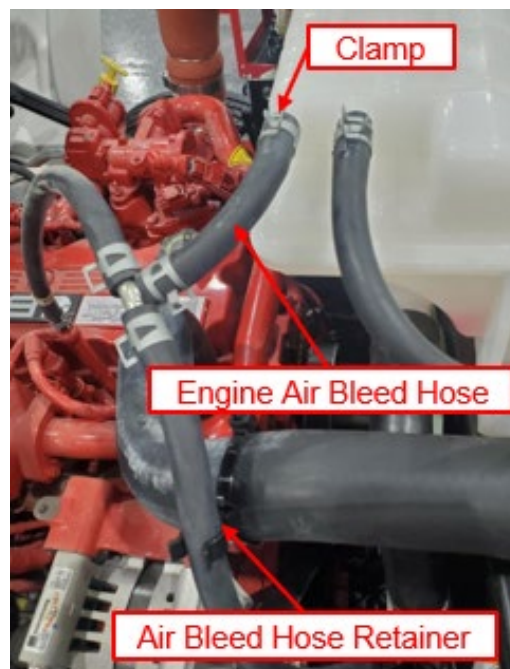
80. Install the coolant supply hose and the clamp removed in Step 8.



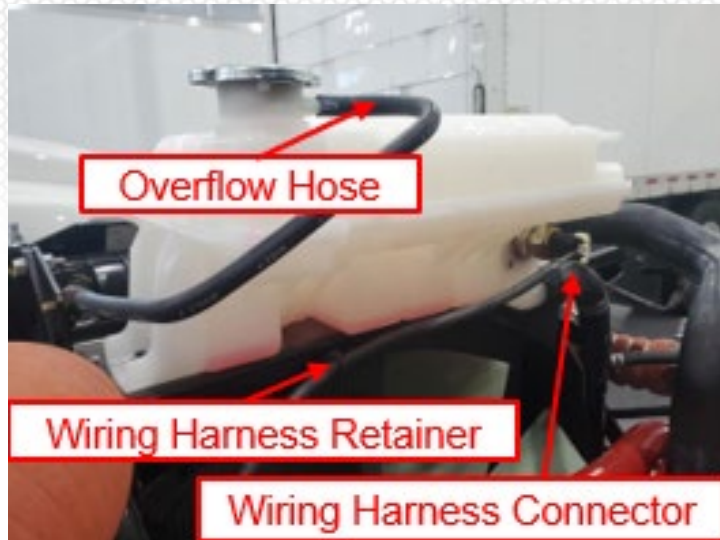
81. Install the supplied radiator air bleed hose (P/N 16571E1C90) with the red paint mark near the radiator. Secure with the two supplied clamps (P/N SZ46615007).



82. Install the engine air bleed hose and the clamp removed in Step 7. Install the supplied air bleed hose retainer (P/N 21576E0400) on the upper radiator hose as shown.

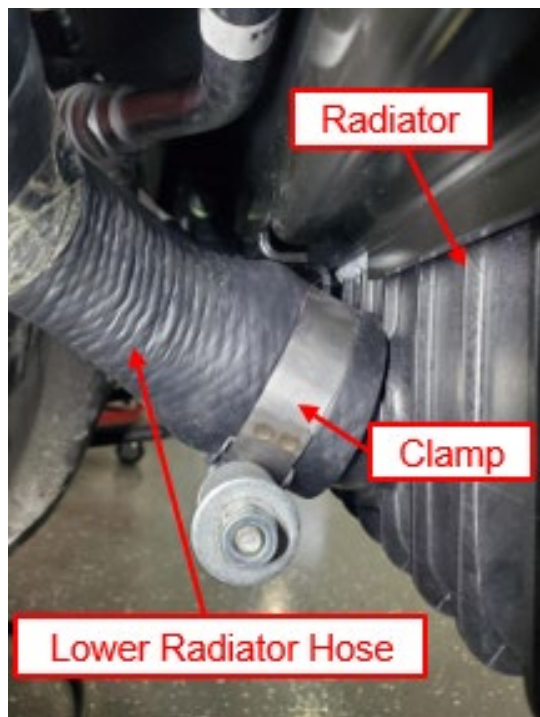


83. Install the overflow hose, the wiring harness connector and the wiring harness retainer removed in Step 9.



84. Install the lower radiator hose on the radiator using the supplied clamp (P/N 000848038). Tighten the clamp to the specified torque.

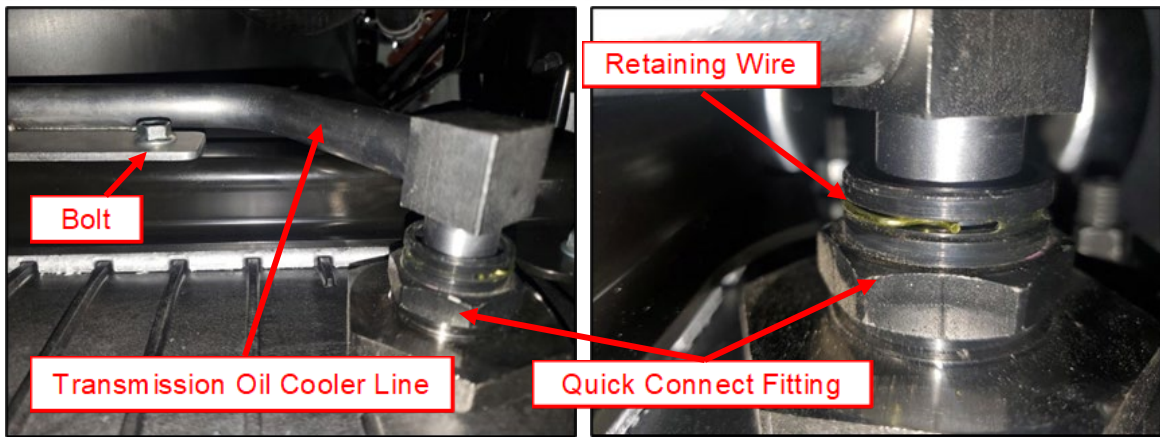
Specified Torque: 5 Ft-lb (7 Nm)



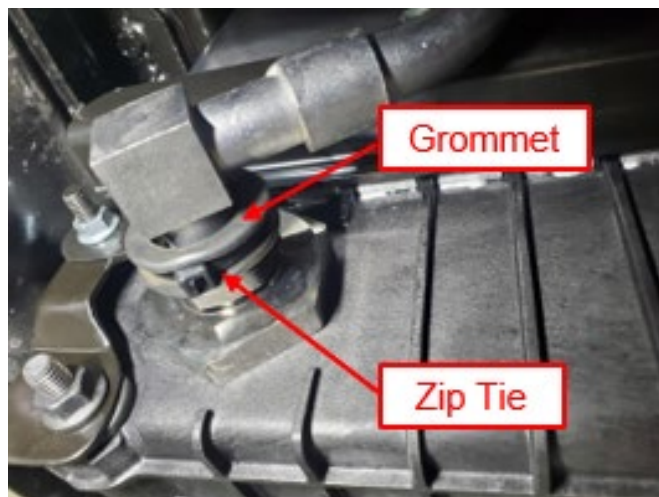
85. Install the transmission oil cooler line into the quick connect fitting on the radiator and install the supplied bolt (P/N 9155180820). Tighten the bolt to the specified torque. Perform this step on both transmission oil cooler lines.

Specified Torque: 21 Ft-lb (28 Nm)

NOTICE: Ensure the cooler line is fully installed into the fitting and the retaining wire is fully seated.

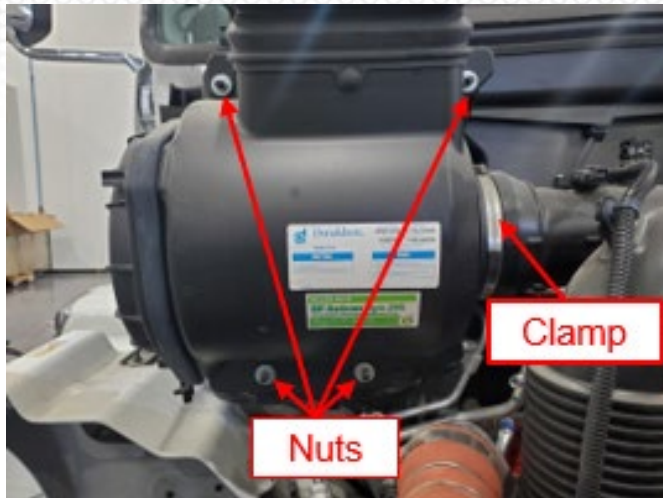


86. Install the grommet removed in Step 23 and secure with the supplied zip tie (P/N S478371230). Perform this step on both quick connect fittings.



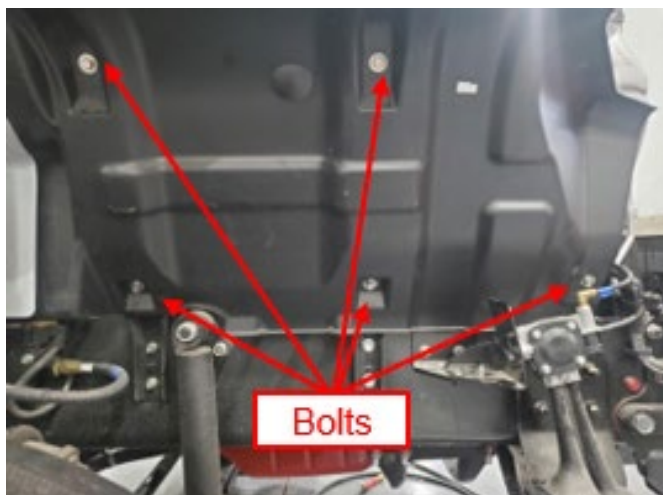
87. Install the air filter housing using the four nuts and the clamp removed in Step 5. Tighten the four bolts to the specified torque. Tighten the hose clamp to the specified torque.

Specified Torque: - Clamp 4 Ft-lb (5 Nm)
- Nuts 16 Ft-lb (22 Nm)



88. Install the splash shield and the five bolts removed in Step 4. Tighten the five bolts to the specified torque.

Specified Torque: 16 Ft-lb (22 Nm)



89. Using the on-line service manual, reinstall the hood.

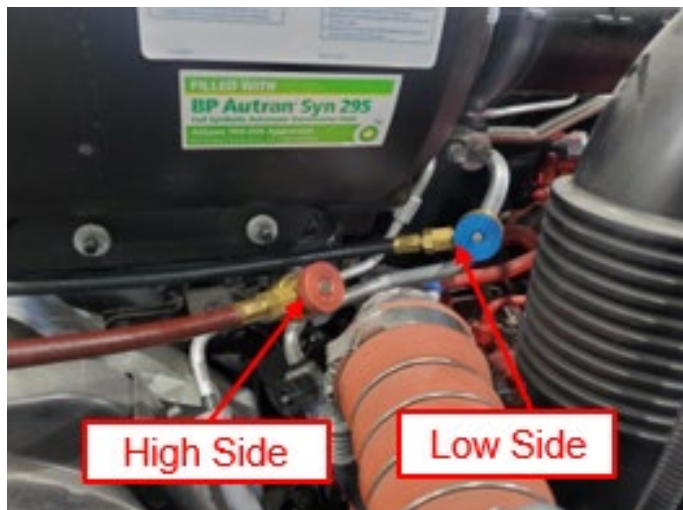
- Chassis Manual (Volume 2)
- Cab (Section CA02-1)
- Hood (Section CA02-12 _ CA02-16)



90. Recharge the air conditioning system using an approved and certified R-134 Refrigerant Recovery, Recycle and Recharge Machine.

Specified Amount:

- Front A/C 0.99 lbs. (450 Grams)
- Front and Rear A/C 2 lbs. 5 oz. (1050 Grams)



91. Refill the cooling system and securely install the degas bottle cap.

NOTICE: During vehicle manufacturing, one of two different types of engine coolant could have been used. To ensure the correct replacement engine coolant is added to the cooling system, inspect the coolant degas bottle for an ATTENTION label. If an ATTENTION label is affixed to the coolant degas bottle, then use the Optional Cooling System Fluid Fill to top-off the cooling system. If no label is found, then use the Standard Cooling System Fluid Fill.

Standard Cooling System Fluid Fill

Fleetguard ES Compleat OAT EG 50/50

Optional Cooling System Fluid Fill

Shell Rotella ELC Nitrate Free 50/50



92. Refill the transmission fluid. Start and run the engine until the cooling system is at operating temperature. Verify the transmission fluid and coolant levels are full. Shut the engine off, remove the ignition key and proceed to **FINAL INSPECTION**.



FINAL INSPECTION:

To complete this Technical Service Bulletin, review the bulletin and confirm the following:

- Coolant level is full.
- Transmission fluid level is full.
- Air conditioning refrigerant level is full.
- All fasteners are torqued to specification.
- No leaks are present.

CLAIM APPLICATION:

- *Reimbursable in accordance within the terms and policies of the Hino limited warranties.*

L-Series Radiator Retrofit:

- a) Labor charge: 5.0 Hours
- b) Warranty code: 13110
- c) Trouble code: 40
- d) Operation code: 13150AOT
- e) Original failed part: 16400EW080

