



Service Bulletin No. 3121

MODEL: J4500	TYPE: Service Information	SECTION/GROUP: 06- Cooling	DATE: 10/07/2019
SUBJECT: J coach CAC clamps replacement			
CONDITIONS: Service Information Only			

Description:

Motor Coach Industries (“MCI”) is instructing customers operating MY19 J-4500 coaches equipped with an ISX, X12, or DD13 engine with E-fan to replace the existing T bolt charge air cooler (“CAC”) clamps, MCI P/N: 19-04-0482, with a new, more reliable clamp, MCI P/N: 19-04-0539, and to torque all CAC clamps on the coach (old and new) to 70-80 In-Lbs instead of 90-110 In-Lbs.

This service bulletin applies to MY19 J4500 coaches in the VIN range **68983-69554**.



Read this entire procedure before beginning work.

Use Safe Shop Practices At All Times.

To avoid personal injury:

- a. **Proper Personal Protective Equipment (PPE) must be worn. Safety glasses and protective gloves are required for working with DEF Fluid.**
- b. **Turn the main battery disconnect switch to the OFF position.**
- c. **Ensure that both the front and the rear wheels are chocked.**
- d. **Position the ENGINE RUN and ENGINE START switches on the engine compartment remote control box to the OFF position.**
- e. **Allow enough time for components to cool down prior to working in the engine compartment**

1.0 Special Tools

10-150 Lb torque wrench with 1/2" socket.

2.0 Rework instruction

Open the engine door using the latch behind the curb side service door.



Rotate the lever counter clockwise

To replace the clamps, follow the rework instructions listed below based on the engine type.

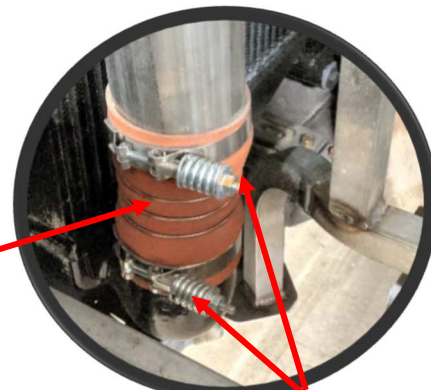
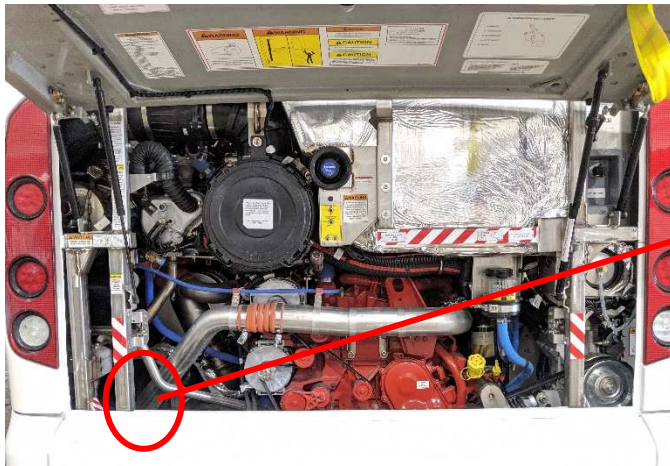
2.1 Units equipped with an ISX engine

2.1.1 Material requirement

ITEM	PART NO.	QTY	U/M	DESCRIPTION
1	19-04-0539	6	EA	Clamp-CAC, T-Bolt, 91-94 MM, COIL SPRING

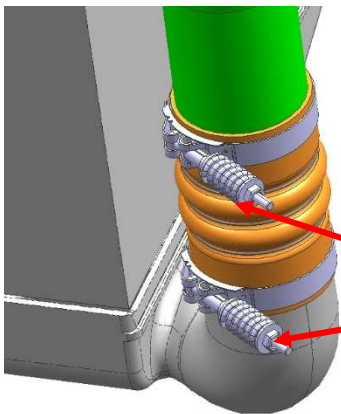
2.1.2 Replace the clamps and correct the torque

Remove and discard both of the CAC clamps on the outlet hose.



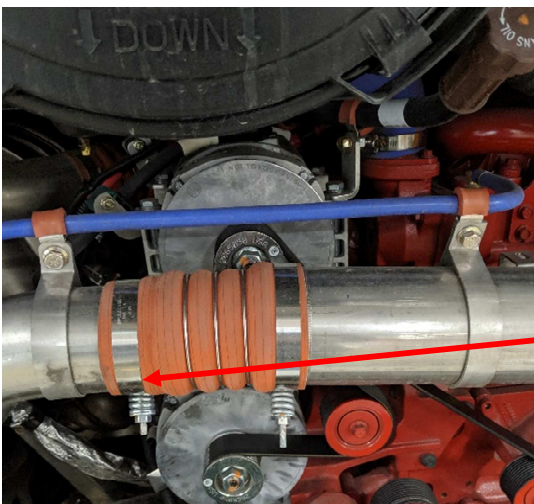
Remove and discard the old clamps

Install two new CAC clamps, MCI P/N: 19-04-0539, and torque them to 70-80 In-Lbs.



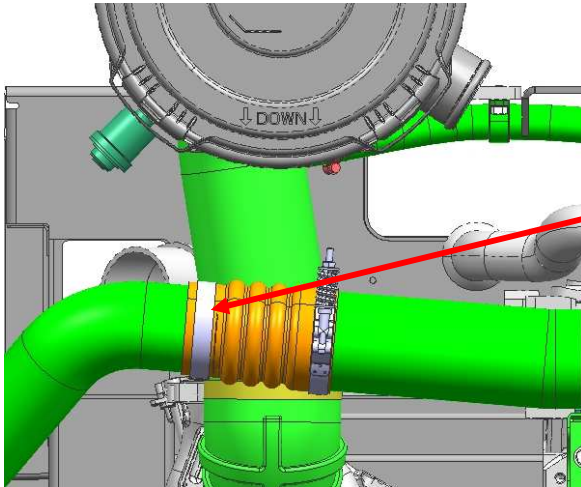
Install new clamps and torque them to 70-80 In-Lbs

Remove and discard the clamp in front of the air filter towards the driver side.



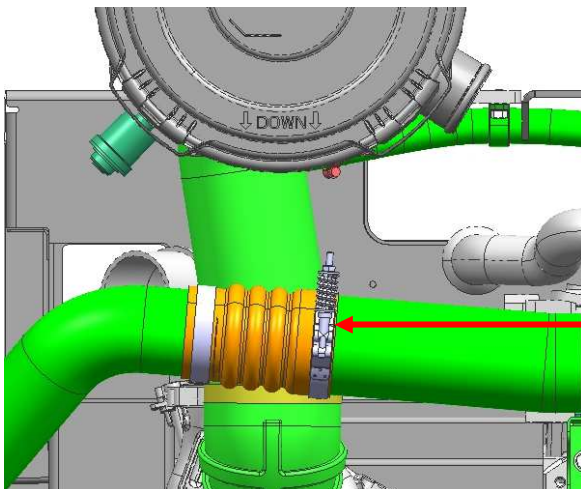
Remove and discard the clamp

Install a new CAC clamp, MCI P/N: 19-04-0539, and torque it to 70-80 In-Lbs.



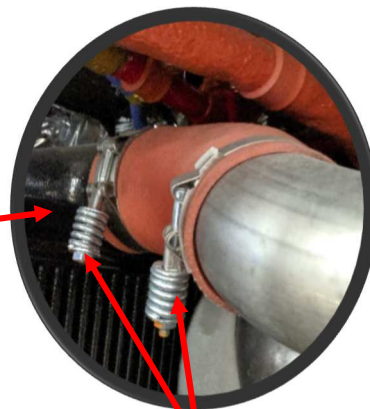
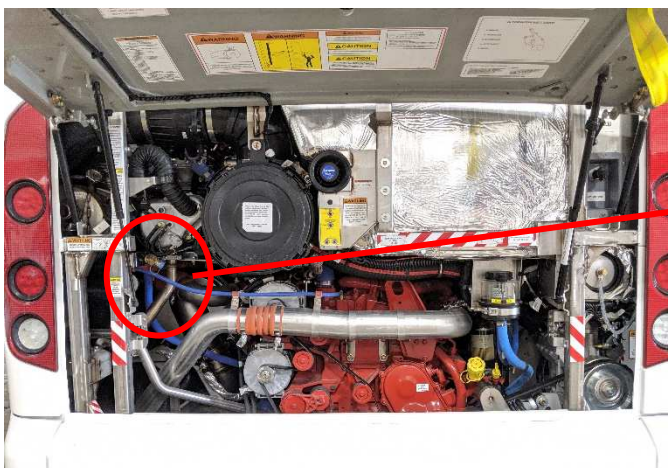
Install new clamp and torque it to 70-80 In-Lbs

Loosen the CAC clamp next to the newly installed clamp and retorque it to 70-80 In-Lbs.



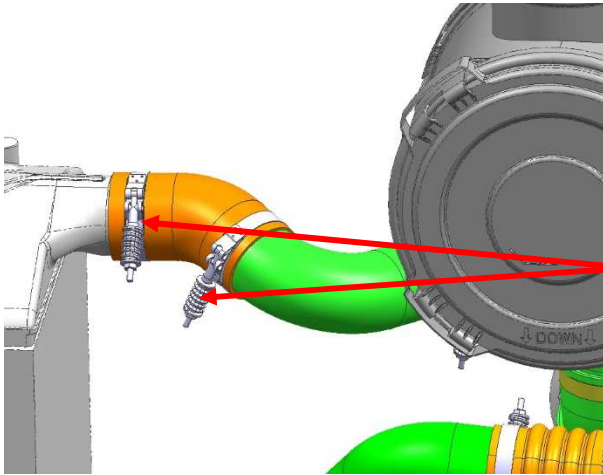
Loosen it and retorque to 70-80 In-Lbs

Remove and discard both of the CAC clamps close to the CAC unit on inlet hose.



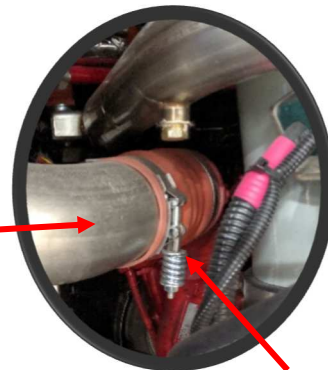
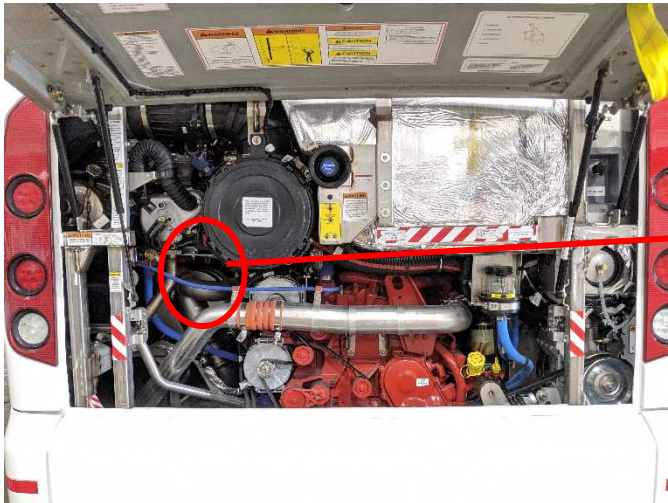
Remove and discard the clamps

Install two new CAC clamps, MCI P/N: 19-04-0539, and torque them to 70-80 In-Lbs.



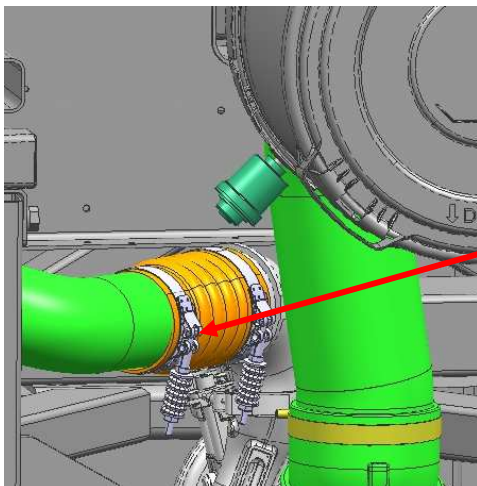
Install new clamps and torque them to 70-80 In-Lbs

Remove and discard the first CAC clamp on the far side of the inlet hose, behind the air filter.



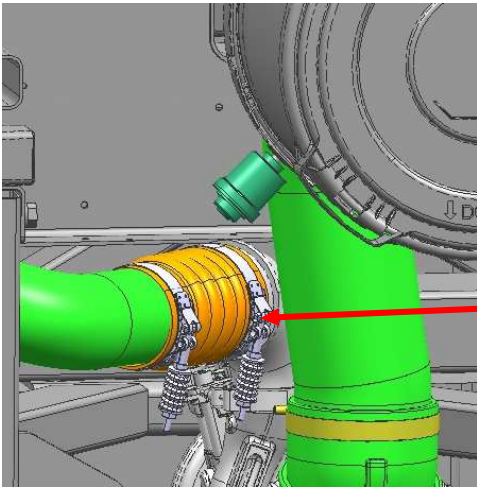
Remove and discard the clamp

Install a new CAC clamp, MCI P/N: 19-04-0539, and torque it to 70-80 In-Lbs.



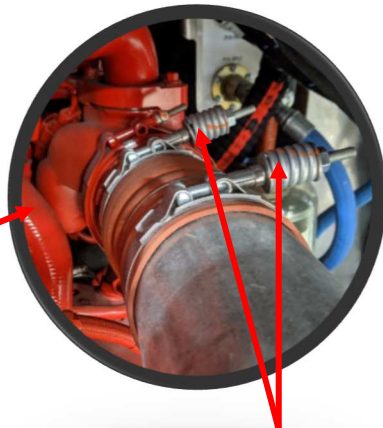
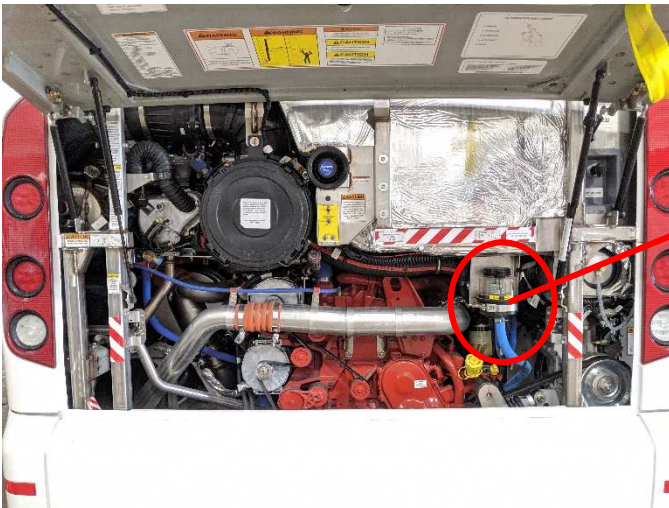
Install new clamp and torque it to 70-80 In-Lbs

Loosen the CAC clamp next to the newly installed clamp and retorque it to 70-80 In-Lbs.



Loosen it and retorque to 70-80 In-Lbs

Loosen the CAC clamps on the intake manifold and retorque them to 70-80 In-Lbs.



Loosen them and
retorque to 70-80 In-Lbs

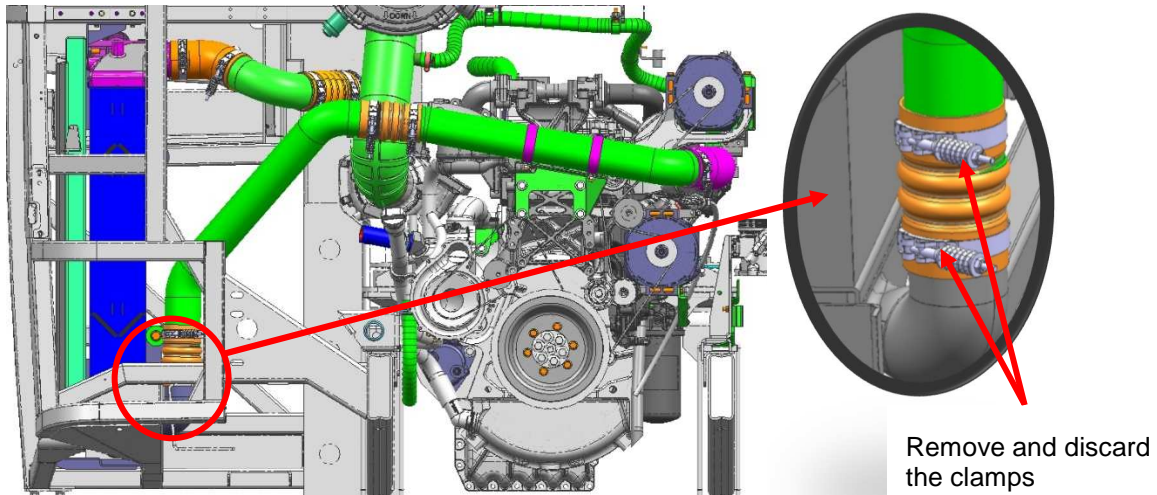
2.2 Units equipped with an X12 Engine

2.2.1 Material requirement

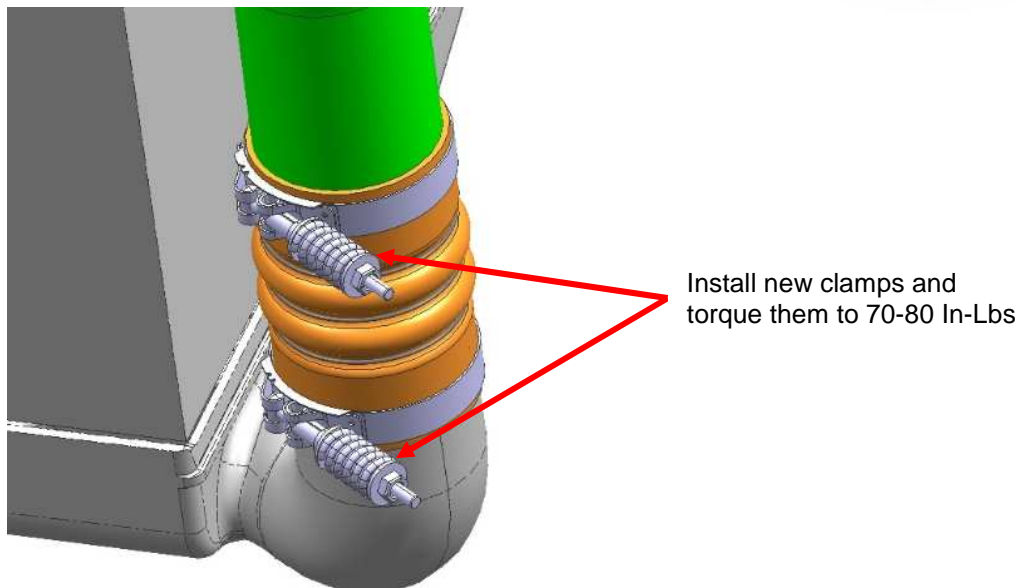
ITEM	PART NO.	QTY	U/M	DESCRIPTION
1	19-04-0539	8	EA	Clamp-CAC, T-Bolt, 91-94 MM, COIL SPRING

2.2.2 Replace the clamps and correct the torque

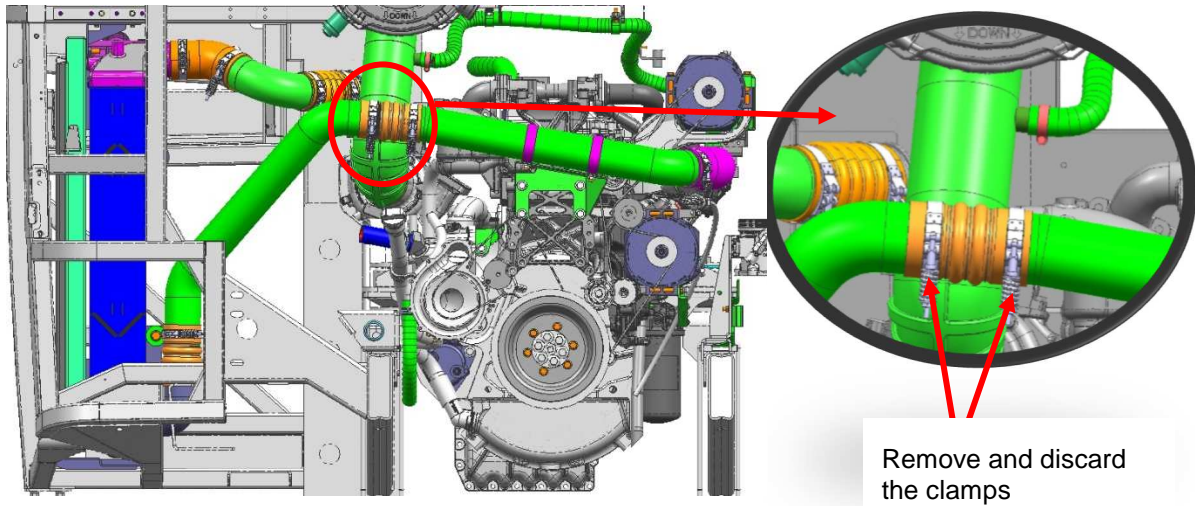
Remove and discard both of the CAC clamps on the outlet hose.



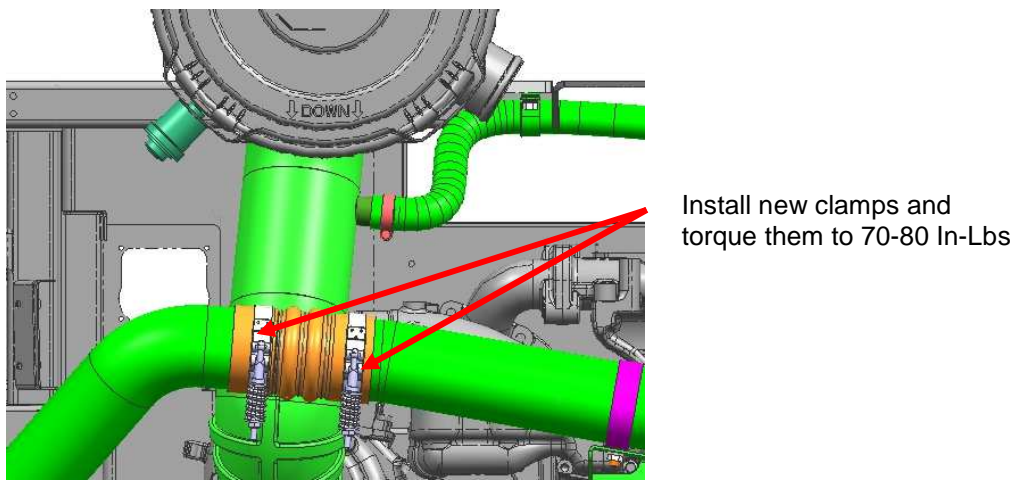
Install two new CAC clamp, MCI P/N: 19-04-0539, and torque them to 70-80 In-Lbs.



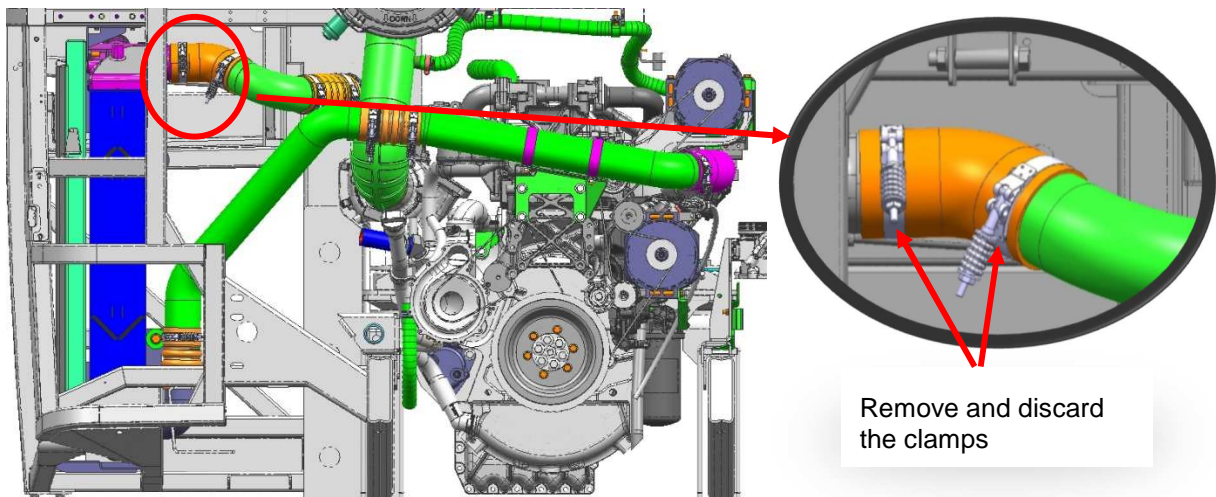
Remove and discard both of the clamps in front of the air filter.



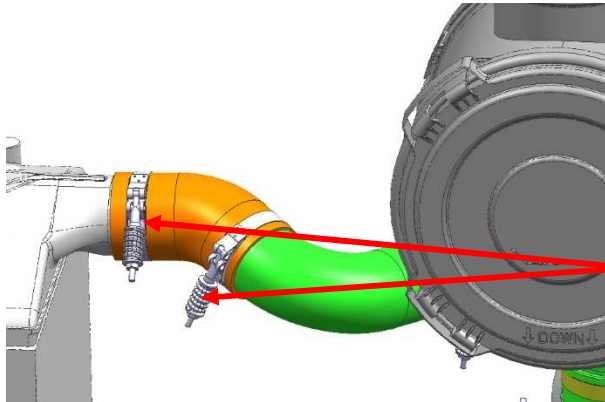
Install new CAC clamps, MCI P/N: 19-04-0539, and torque them to 70-80 In-Lbs.



Remove and discard both of the CAC clamps close to the CAC unit on the inlet hose.

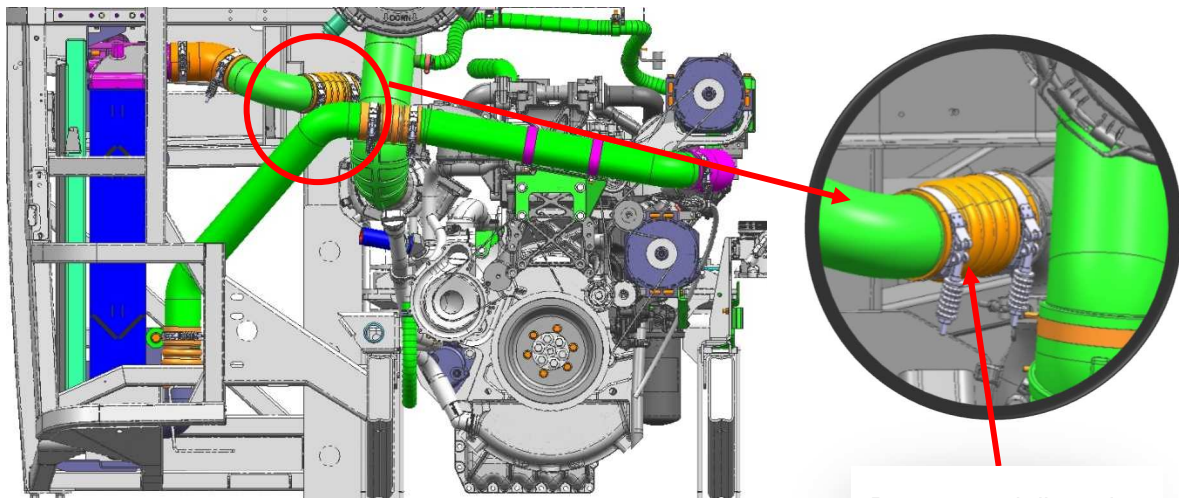


Install two new CAC clamps, MCI P/N: 19-04-0539, and torque them to 70-80 In-Lbs.



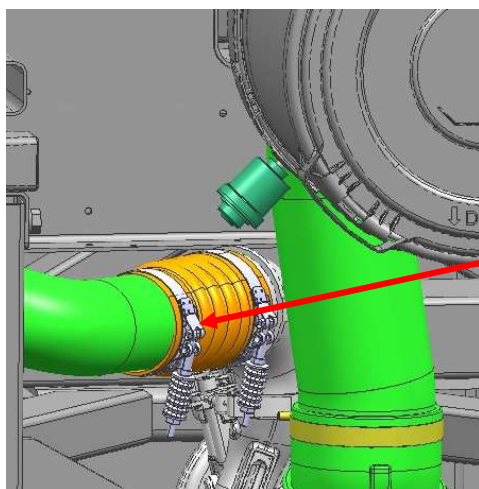
Install new clamps and torque them to 70-80 In-Lbs

Remove and discard the first CAC clamp on the far side of the inlet hose, behind the air filter.



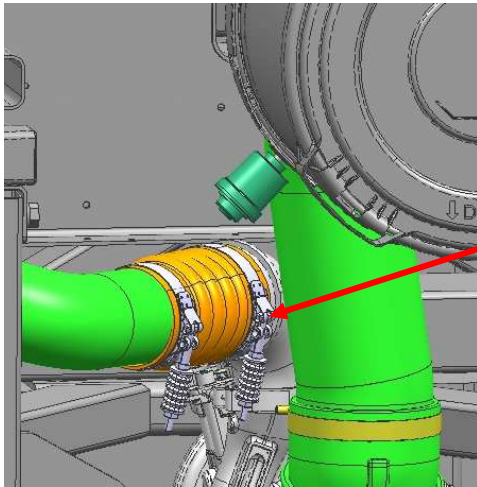
Remove and discard the clamp

Install new CAC clamp, MCI P/N: 19-04-0539, and torque it to 70-80 In-Lbs.



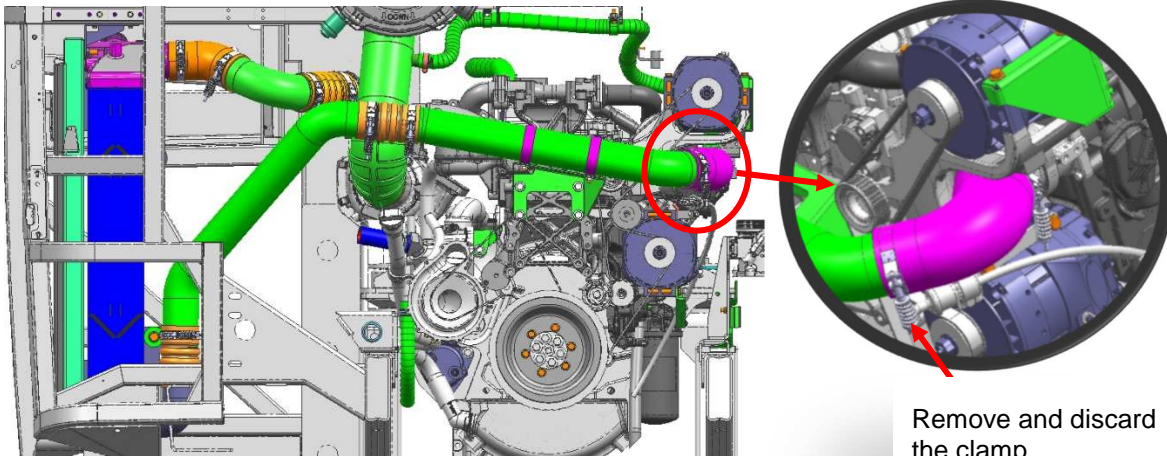
Install new clamp and torque to 70-80 In-Lbs

Loosen the CAC clamp next to the newly installed clamp and retorque it to 70-80 In-Lbs.



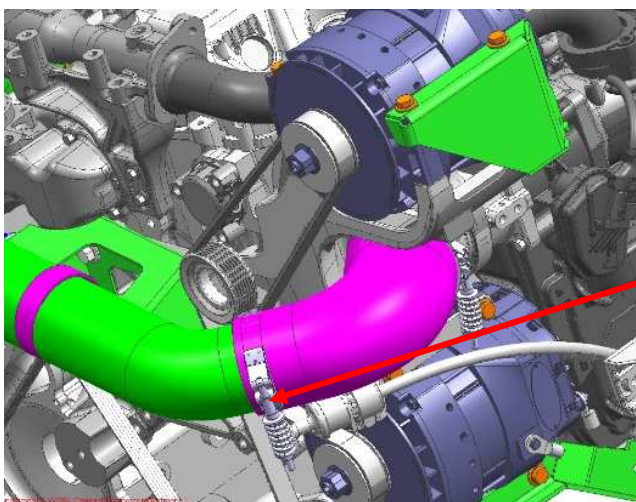
Loosen the clamp and
retorque to 70-80 In-Lbs

Remove and discard the first CAC clamp on the intake manifold towards the engine door.



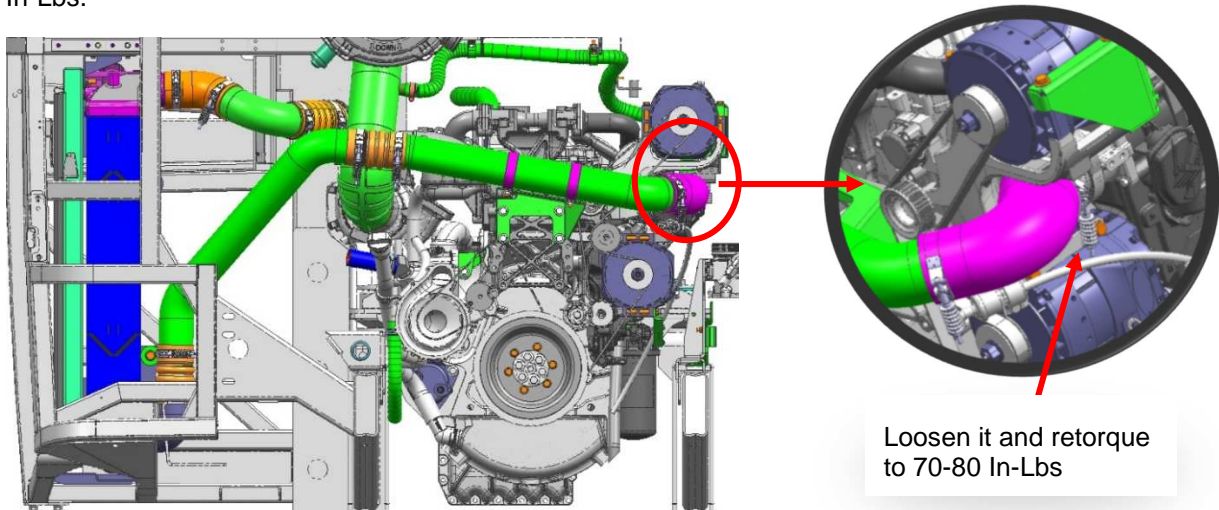
Remove and discard
the clamp

Install new CAC clamp, MCI P/N: 19-04-0539, and torque it to 70-80 In-Lbs.



Install new clamp and
torque to 70-80 In-Lbs

Loosen the CAC clamps on the intake manifold next to the newly replaced clamp and retorque it to 70-80 In-Lbs.



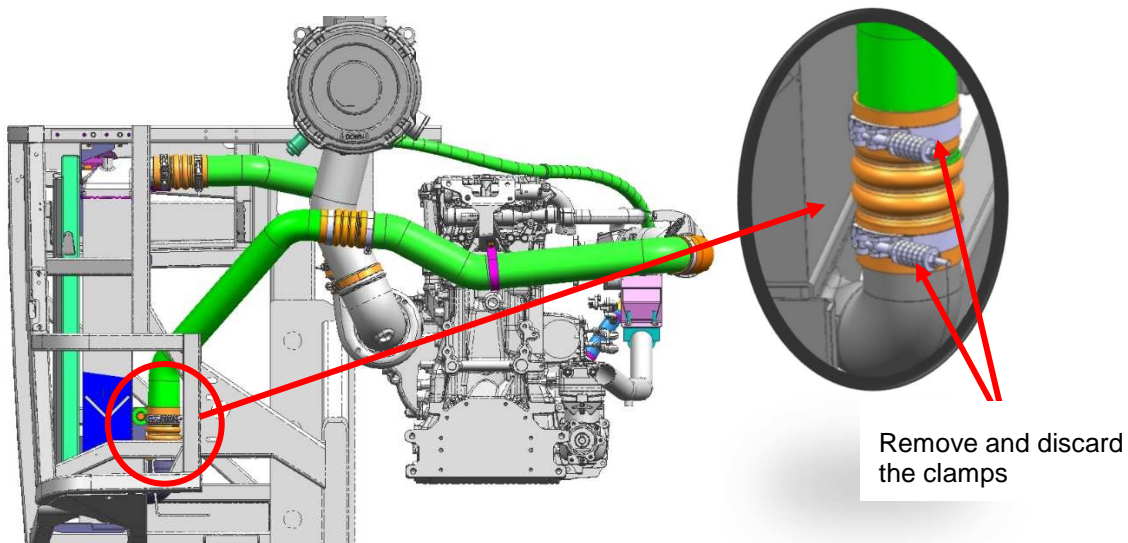
2.3 Units equipped with a DD13 Engine

2.3.1 Material requirement

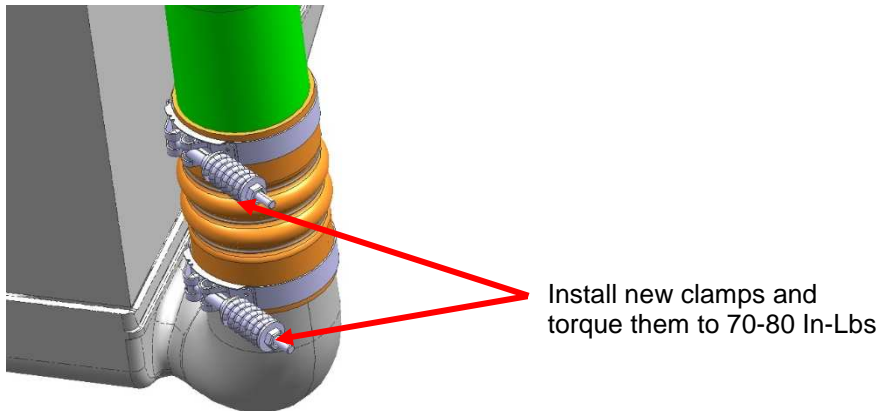
ITEM	PART NO.	QTY	U/M	DESCRIPTION
1	19-04-0539	7	EA	Clamp-CAC, T-Bolt, 91-94 MM, COIL SPRING

2.3.2 Replace the clamps and correct the torque

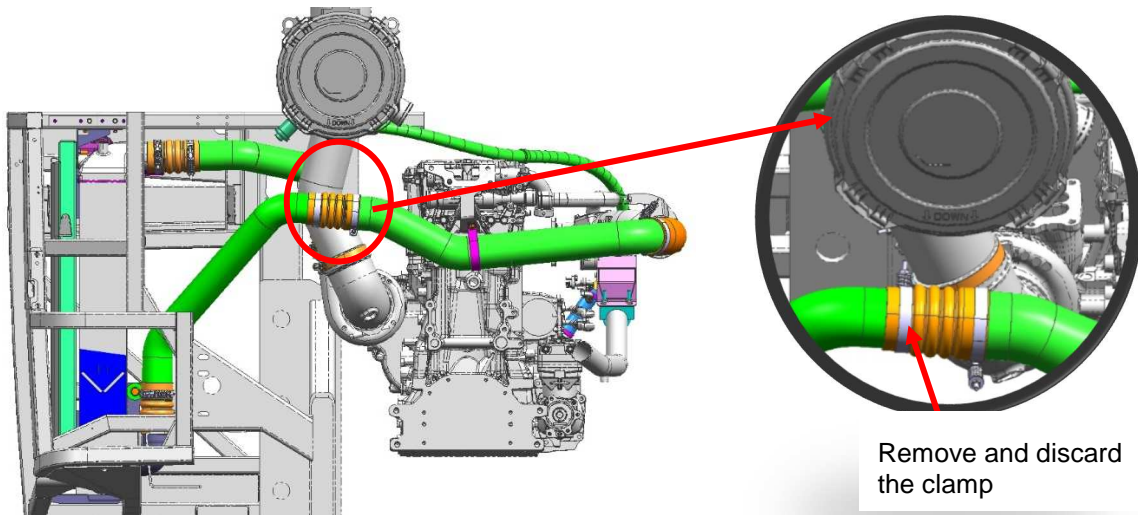
Remove and discard both of the CAC clamps on the outlet hose.



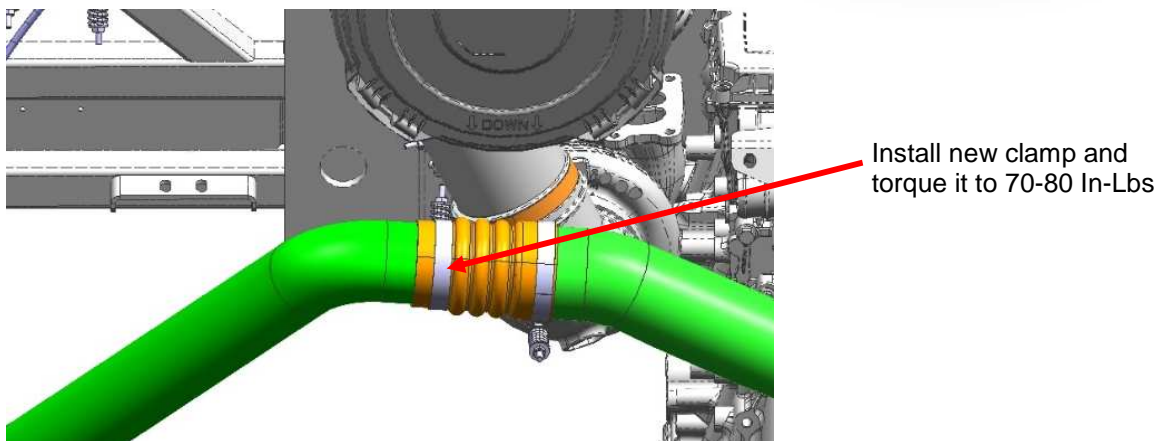
Install two new CAC clamps, MCI P/N: 19-04-0539, and torque them to 70-80 In-Lbs.



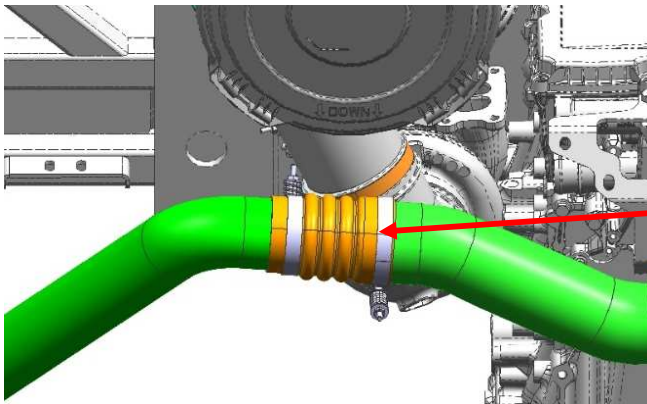
Remove and discard the clamp in front of the air filter towards the driver side.



Install new CAC clamp, MCI P/N: 19-04-0539, and torque it to 70-80 In-Lbs.

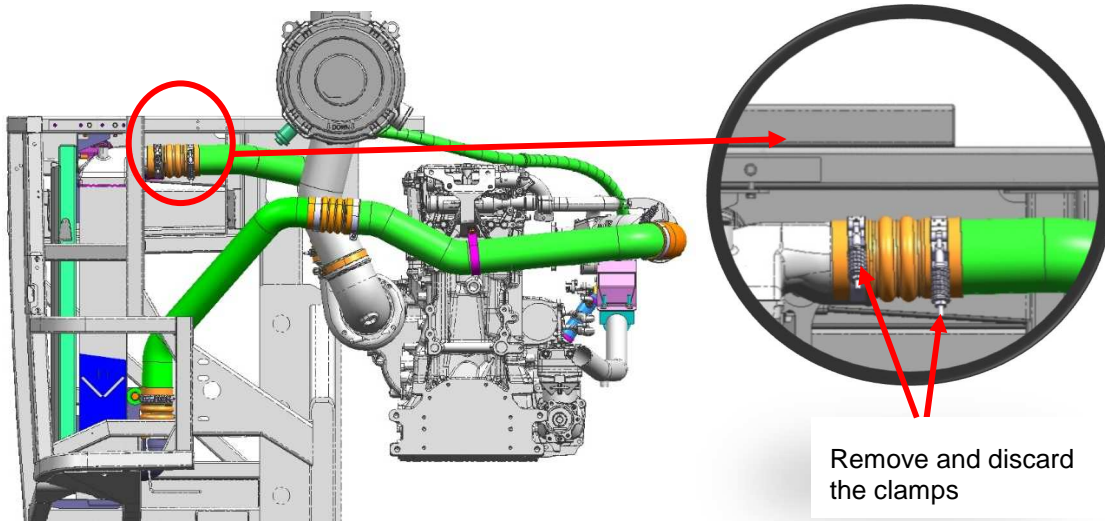


Loosen the CAC clamp next to the newly installed clamp and retorque it to 70-80 In-Lbs.



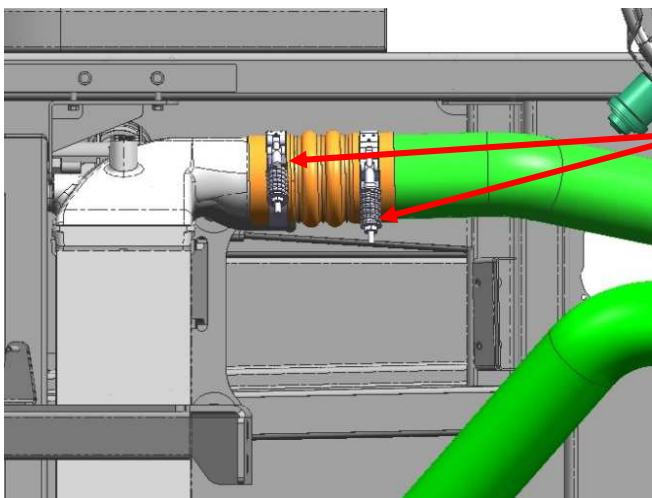
Loosen it and retorque to 70-80 In-Lbs

Remove and discard both of the CAC clamps close to the CAC unit on the inlet hose.



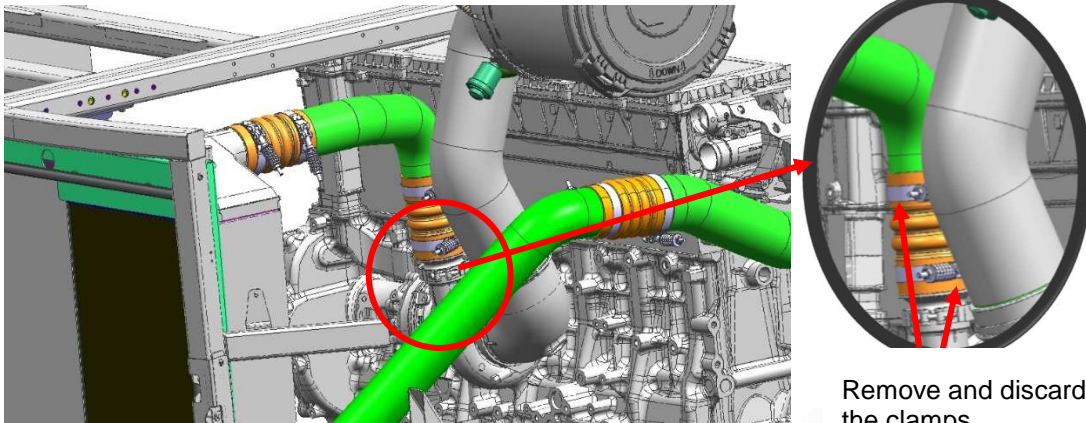
Remove and discard the clamps

Install two new CAC clamps, MCI P/N: 19-04-0539, and torque them to 70-80 In-Lbs.



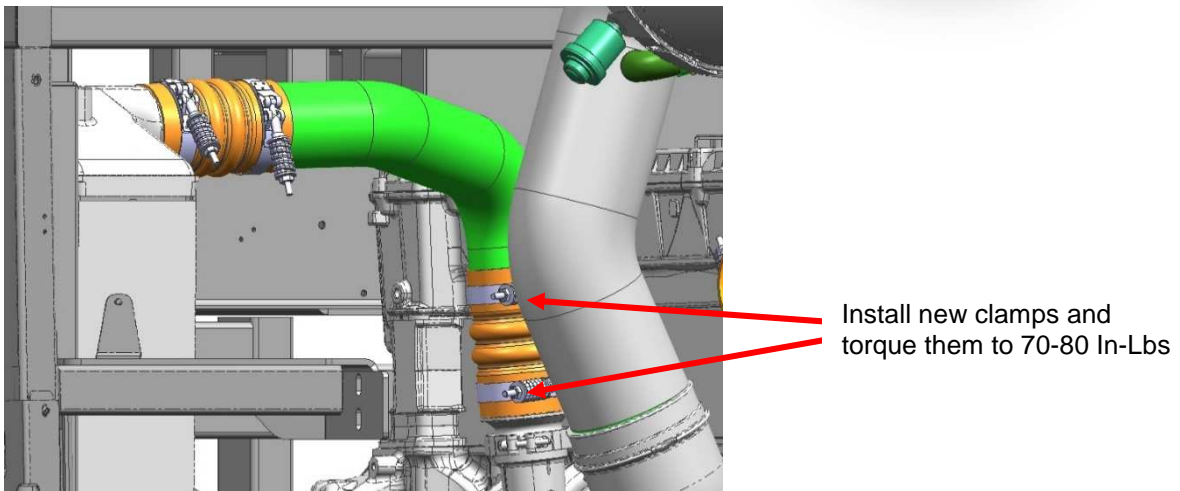
Install new clamps and torque to 70-80 In-Lbs

Remove and discard both of the CAC clamps on the far side of the inlet hose, behind the air filter.



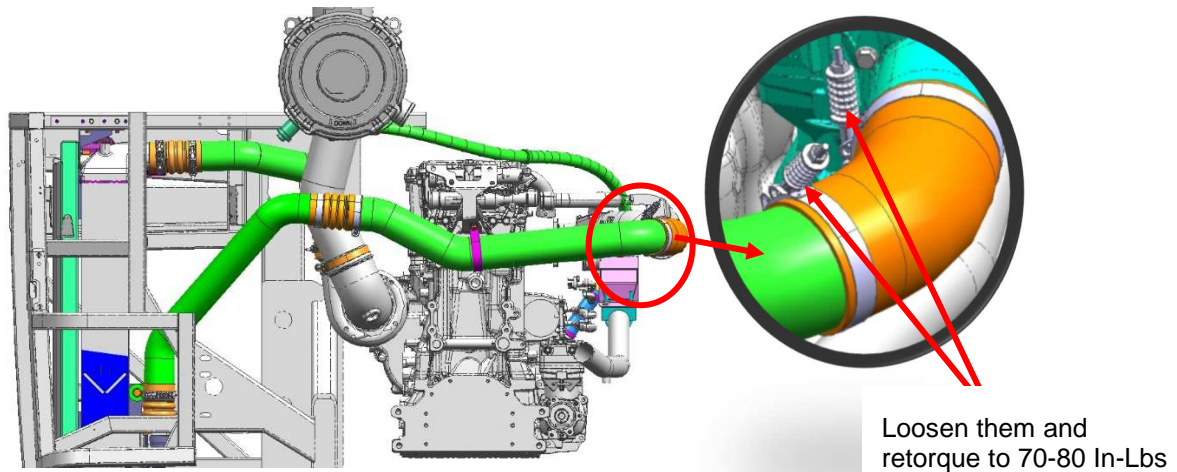
Remove and discard the clamps

Install two new CAC clamps, MCI P/N: 19-04-0539 and torque them to 70-80 In-Lbs.



Install new clamps and torque them to 70-80 In-Lbs

Loosen the CAC clamps on the intake manifold and retorque them to 70-80 In-Lbs.



Loosen them and retorque to 70-80 In-Lbs

End of the procedure