

S E R V I C E C A M P A I G N B U L L E T I N

SUBJECT: LLC Pipe Replacement

DATE: 01-24-2014

BULLETIN NO.: SCB-002-13

CAMPAIGN NO.: A8900

AFFECTED MODELS: Certain 2013 and 2014 Model Year 195 and 195h model vehicles.

IMPORTANT:

Verify the vehicle requires the work to be performed by referencing the vehicle by VIN within the Hino Warranty System (DCS).

CONDITION:

The LLC (Long Life Coolant) pipes may corrode due to road salt and splash. The corrosion may create a hole in the pipe, resulting in an LLC leak, and possible engine overheating. This service campaign directs you to replace these LLC pipes with an enhanced pipe made of stainless steel.

SUBJECT VEHICLES:

Certain 2013 and 2014 Model Year 195 and 195h model vehicles that were assembled at the Hamura Japan plant.

BEFORE YOU BEGIN:

Read and understand all instructions and procedures before you begin. Read and observe all Notes, Cautions and Warning alerts that precede these instructions while following the procedures. The alerts help to avoid damage to components, serious personal injury, or both.

!!! WARNING !!!

- Park the vehicle on a level and solid surface
- Place the gear shift lever in "Neutral" or "Park".
- Apply the parking brake.
- Confirm the engine is stopped, the starter switch is in the off (LOCK) position, and the key is removed.
- Wear safety glasses to prevent eye injuries.
- Place wheel chocks in front of and behind all wheels.

SERVICE CAMPAIGN BULLETIN

Once the Campaign is Performed

Complete the campaign sticker shown below and affix it to the door jamb above the VIN tag.



PART APPLICATION CHART:

Kit Part Number	Description	Quantity
04003331E0	Pipe Kit LLC	1
Pipe Kit LLC Contents (04003331E0)		
Part Number	Description	Quantity
8720837500	SCR Coolant Pipes	2
21576E0190	Black Color Hose Clamps	4
21576E0200	Silver Color Hose Clamps	2
9415180800	Nuts	2

VEHICLE PREPERATION:

1. Park the vehicle on level ground. Confirm the engine is stopped, the starter switch is in the "OFF" (LOCK) position and the key is removed.



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2. Apply the parking brakes.



3. Chock the wheels.



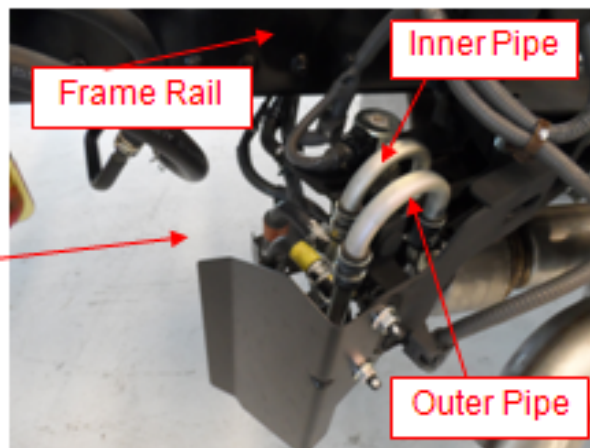
WARNING:

Contact with hot engine coolant can result in burns or serious injuries. To avoid serious burn injuries, make certain that the engine is at ambient temperature and the cooling system is not pressurized before proceeding with this work procedure.

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REMOVAL INSTRUCTION:

1. Locate the inner and outer steel SCR coolant pipes on the passenger side frame rail.



2. Place a drain pan under the SCR coolant pipes

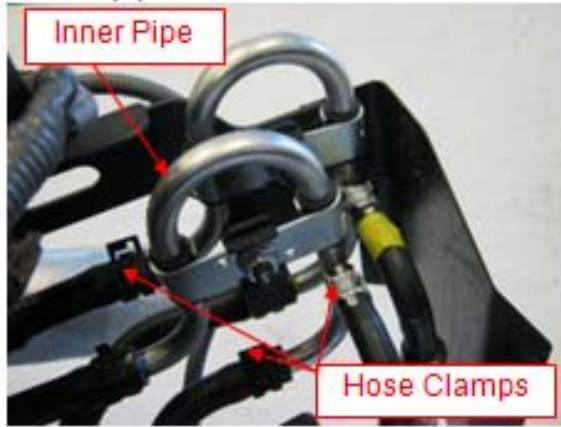


WARNING:

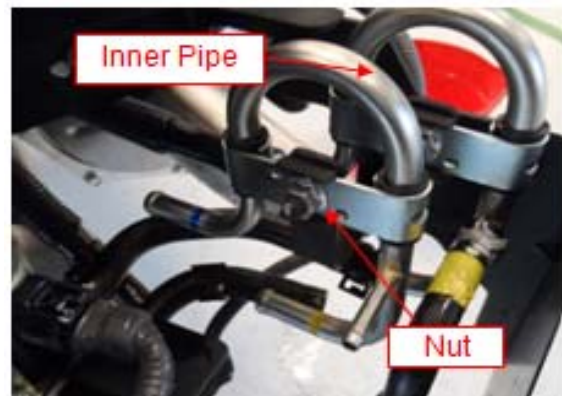
To avoid serious burns or injury, never remove any hoses or clamps in the cooling system unless you are certain that the engine is at ambient temperature and the cooling system is not pressurized.

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3. For ease of access, remove the inner coolant pipe first. Release the three (3) inner SCR coolant pipe hose clamps and disconnect the three (3) coolant hoses from the inner SCR coolant pipe.



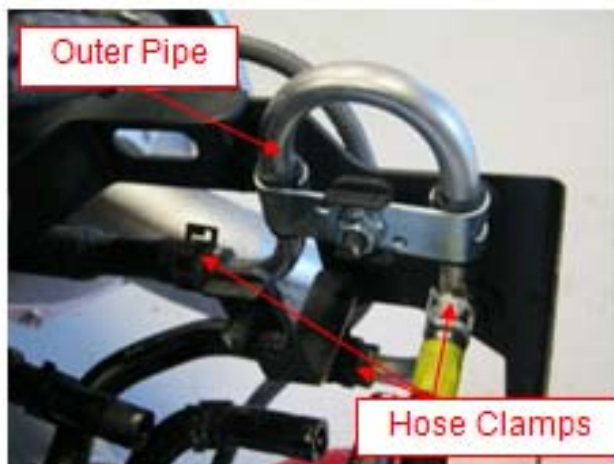
4. Remove the nut that secures the inner SCR coolant pipe. Remove the inner SCR coolant pipe and discard the nut and pipe.



WARNING:

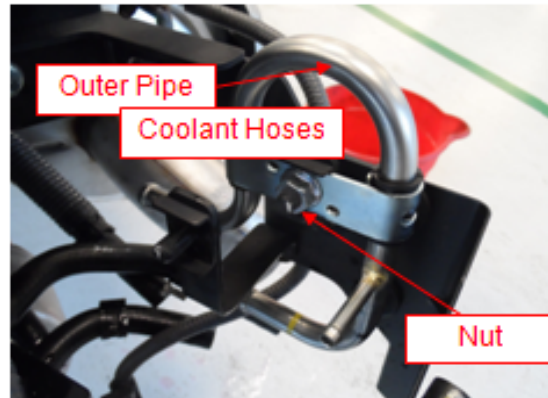
To avoid serious burns or injury, never remove any hoses or clamps in the cooling system unless you are certain that the engine is at ambient temperature and the cooling system is not pressurized.

5. Release the three (3) outer SCR coolant pipe hose clamps and disconnect the three (3) coolant hoses from the outer SCR coolant pipe. Discard the hose clamps



SERVICE CAMPAIGN BULLETIN

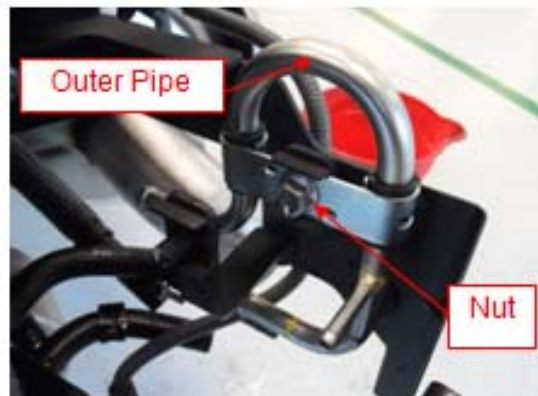
6. Remove the nut that secures the outer SCR coolant pipe. Remove the outer SCR coolant pipe and discard the nut and pipe.



INSTALLATION INSTRUCTIONS:

1. Install the outer coolant pipe first. Using a new SCR coolant pipe and new nut, secure the pipe in the outer position and torque the nut to the specified torque

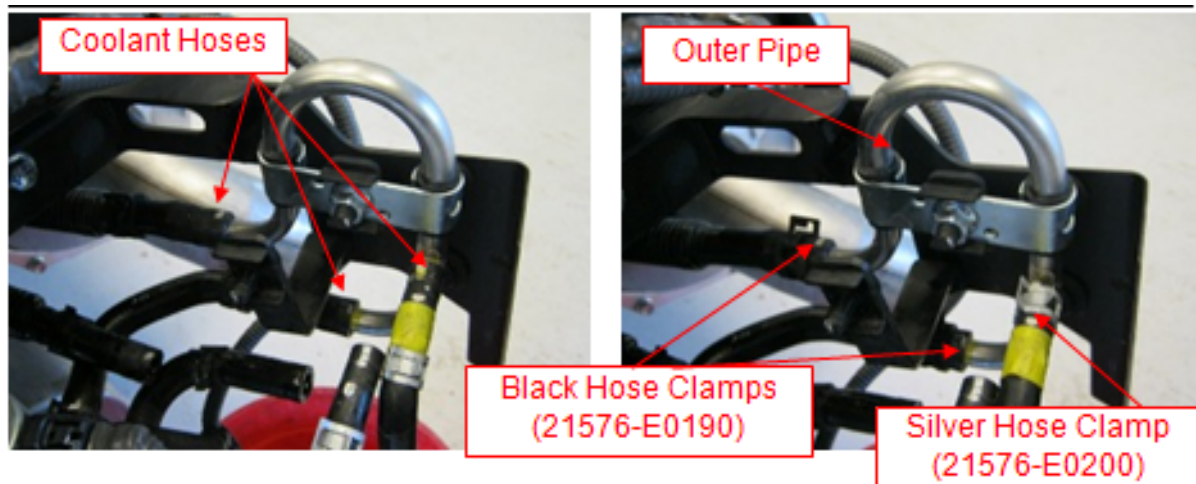
Specified Torque: 22.8 lb-ft (31.0 Nm)



2. Using three (3) new hose clamps, install the hose clamps onto their corresponding coolant hose. Install the hoses and then position the hose clamps into their original position prior to disassembly. Engage the clamps.

NOTICE:

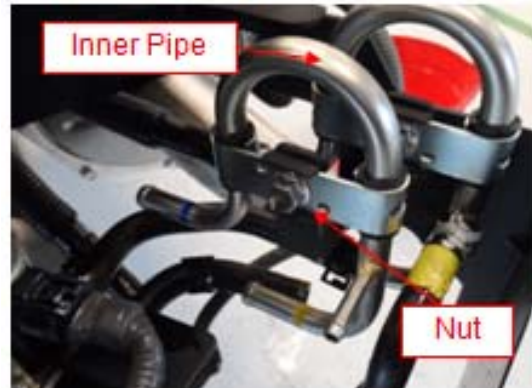
There are two (2) different size hose clamps provided. Care should be taken to ensure the black color clamps (21576-E0190) are used on the two (2) larger diameter coolant hoses and the silver color clamp (21576-E0200) is used on the one (1) smaller diameter coolant hose.



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3. The inner coolant pipe will now be installed. Using a new SCR coolant pipe and new nut, secure the pipe in the inner position and torque the nut to the specified torque.

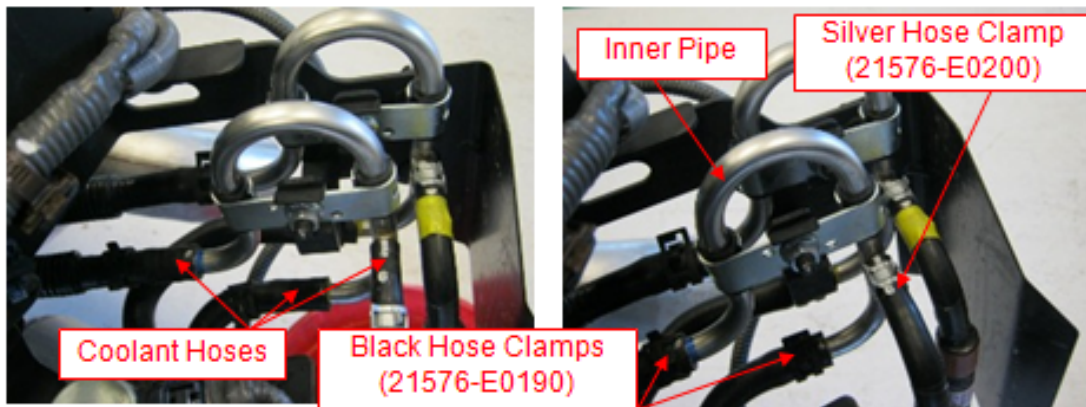
Specified Torque: 22.8 lb-ft (31.0 Nm)



4. Using three (3) new hose clamps, install the hose clamps onto their corresponding coolant hose. Install the hoses and then position the hose clamps into their original position prior to disassembly. Engage the clamps.

NOTICE:

There are two (2) different size hose clamps provided. Care should be taken to ensure the black color clamps (21576-E0190) are used on the two (2) larger diameter coolant hoses and the silver color clamp (21576-E0200) is used on the 1 smaller diameter coolant hose.

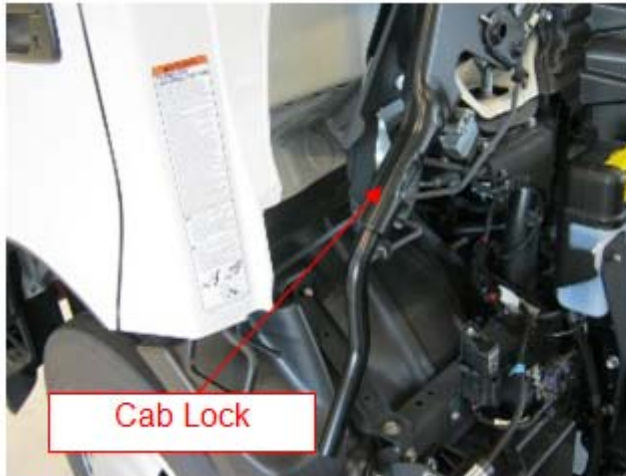


5. Using the ignition key, start the engine for 30 seconds and then turn the ignition key to the lock position to shut the engine off. Confirm the engine is stopped, the ignition switch is in the off (LOCK) position, and the key is removed.



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6. Release the cab lock and raise the cab.



7. Remove the radiator cap and add Hino LLC (Long Life Coolant) until the radiator is full. Install the radiator cap.

WARNING:

To avoid serious burn injuries, make certain the engine coolant is at ambient temperature and the cooling system is not under pressure before removing radiator cap.

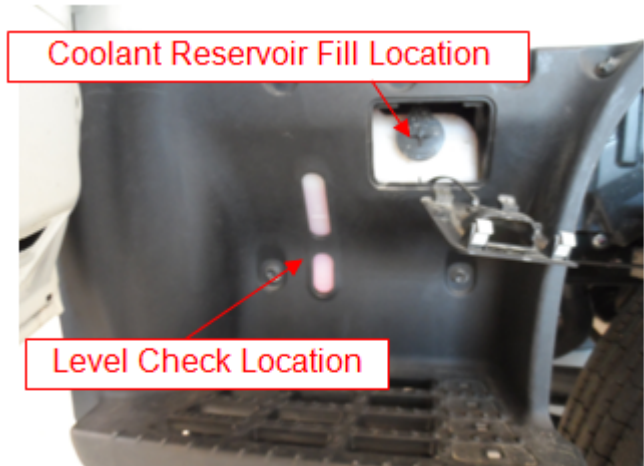


8. Lower the cab and engage the cab lock.



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9. Open the driver's door. Ensure the coolant reservoir behind the drivers cab step is full of coolant. Top off with Hino LLC as needed.



10. Start the engine using the ignition key and allow the engine to reach operating temperature.

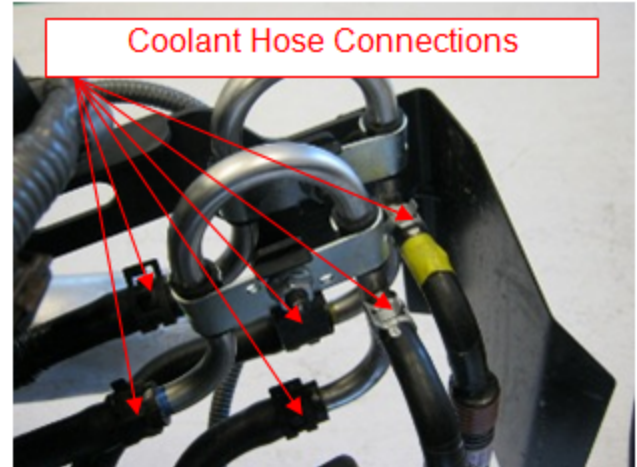


11. Turn the ignition key to the lock position to shut the engine off. Confirm the engine is stopped, the ignition switch is in the off (LOCK) position, and the key is removed.



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12. Inspect the six (6) coolant hose connections to make certain they are not leaking while the cooling system is under pressure.



13. This repair procedure is complete. Perform the final inspection procedure before releasing the vehicle to the customer.

FINAL INSPECTION PROCEDURE:

1. To complete this service campaign, review the bulletin and confirm the following:
- There are no leaks at the 6 coolant hose connections indicated in this service bulletin.
 - The cooling system is full, including the reservoir tank.
 - The nut securing each of the SCR coolant pipes is torqued to the specified torque.
 - Cab is securely latched and locked in the lowered position.

Claim Application:

SCR Coolant Pipe Replacement:

- a) Campaign No: A8900
- b) Labor Charge: .8 hr
- c) Warranty Code: 11547
- d) Operation Code: 11550AOT
- e) Original Failed Part: 9999999999