

Subject

2020+ Ford 7.3 L Diesel Engine Cooling System Fill Instructions

OVERVIEW

In order to prevent overheating due to vapour lock, the following procedure must be used when refilling the coolant system.

COOLANT FILLING PROCEDURE



Regardless of whether a vacuum cooling system filler is used or not, the following procedure must be performed.

- 1) **Optional:** Install the vacuum cooling system filler and follow the manufacturer's instructions to fill and bleed the system.
- 2) Ensure the radiator drain spigot is closed.
- 3) Fill the degas bottle to the "MAX FILL" line.
- 4) Install the degas bottle cap until it contacts the hard stop.
- 5) Turn the climate control system off.
- 6) Start the engine and increase the engine speed to 3,500 rpm and hold it there for 30 seconds.
- 7) Turn the engine off for and wait for 1 minute to purge any large air pockets from the cooling system.



To prevent injury, ensure the engine is shut off, the engine and coolant have cooled to a safe temperate, and the pressure has dissipated prior to loosening the degas bottle cap.

- 8) Check the engine coolant level in the degas bottle. If necessary, fill to the:
 - o If the engine is warm, ensure the level is to the "MAX FILL" line on degas bottle.
 - o if the engine is cold, ensure the level is to the MIN FILL LEVEL line on degas bottle.
- 9) Start the engine and let it idle until the cooling fan cycles on at least once.
- 10) Increase the engine speed to 3,500 rpm and hold it there for 30 seconds.
- 11) Allow the engine to idle for 30 seconds.
- 12) Turn the engine off for 1 minute.
- 13) Repeat steps 11 through 13 a total of 10 times to remove any remaining air trapped in the system.



To prevent injury, ensure the engine is shut off, the engine and coolant have cooled to a safe temperate, and the pressure has dissipated prior to loosening the degas bottle cap.

- 14) Check the engine coolant level in the degas bottle. If necessary, fill to the "MAX FILL" line on degas bottle.
- 15) Install the degas bottle cap until it contacts the hard stop.

Version	Document	Department	Revision Details	Author	Reviewed by		Implemented
					Tech.	Eng.	
A	EXT-UH-003	Tech	Document Release	MSP	N/A	CAM	23 Oct. 2020