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Model Year Start: 2011	Model: LX570	Prod Date Range: [08/2010 -]
Title: 3UR-FE COOLING: COOLANT: REPLACEMENT; 2011 MY LX570 [08/2010 -]		

REPLACEMENT

1. REMOVE ENGINE ROOM SIDE COVER LH [INFO](#)

2. REMOVE ENGINE ROOM SIDE COVER RH [INFO](#)

3. REMOVE UPPER RADIATOR SUPPORT SEAL [INFO](#)

4. REMOVE FRONT FENDER SPLASH SHIELD SUB-ASSEMBLY LH [INFO](#)

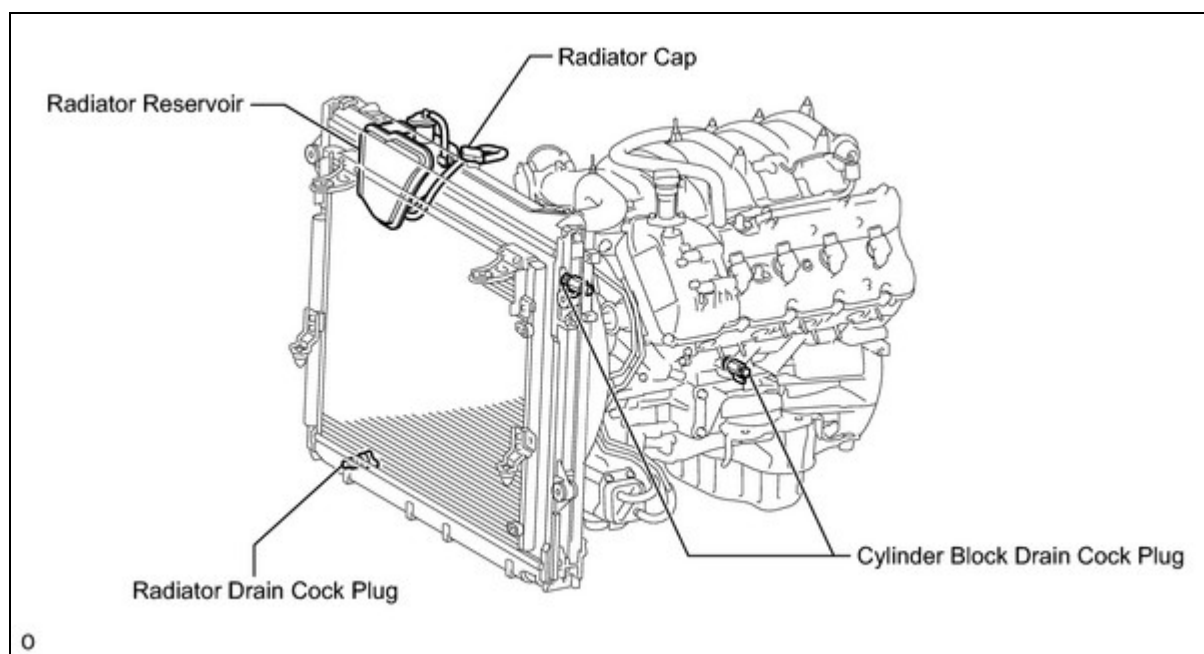
5. REMOVE FRONT FENDER SPLASH SHIELD SUB-ASSEMBLY RH [INFO](#)

6. REMOVE NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY [INFO](#)

7. DRAIN ENGINE COOLANT

CAUTION:

Do not remove the radiator cap while the engine and radiator are still hot. Pressurized, hot engine coolant and steam may be released and cause serious burns.



(a) Loosen the radiator drain cock plug.

HINT:

Collect the coolant in a container and dispose of it according to the regulations in your area.

(b) Remove the radiator cap. Then drain the coolant from the radiator.

(c) Loosen the 2 cylinder block drain cock plugs. Then drain the coolant from the engine.

(d) Tighten the 2 cylinder block drain cock plugs.

Torque:**13 N·m {130 kgf·cm, 10ft·lbf}**

- (e) Tighten the radiator drain cock plug by hand.

8. ADD ENGINE COOLANT

- (a) Add engine coolant.

Standard Capacity:

16.7 liters (17.6 US qts, 14.7 Imp. qts)

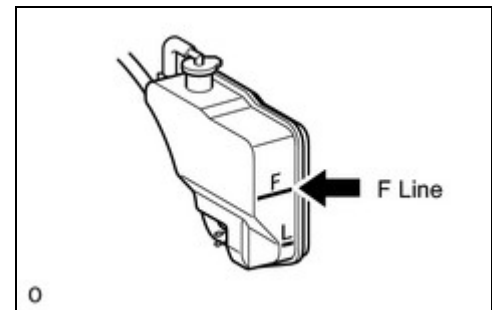
NOTICE:

Do not substitute plain water for engine coolant.

HINT:

TOYOTA vehicles are filled with TOYOTA SLLC at the factory. In order to avoid damage to the engine cooling system and other technical problems, only use TOYOTA SLLC or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, non-borate coolant with long-life hybrid organic acid technology (coolant with long-life hybrid organic acid technology consists of a combination of low phosphates and organic acids).

- (b) Slowly pour coolant into the radiator reservoir until it reaches the F line.



- (c) Install the reservoir cap.
- (d) Press the No. 1 and No. 2 radiator hoses several times by hand, and then check the coolant level.
If the coolant level is low, add coolant.
- (e) Install the radiator cap.
- (f) Start the engine and warm it up until the thermostat opens.

NOTICE:

Switch off the A/C.

- (g) Maintain the engine speed at 2000 to 2500 rpm.

NOTICE:

- Make sure that the radiator reservoir still has some coolant in it.
- Pay attention to the needle of the water temperature meter. Make sure that the needle does not show an abnormally high temperature.
- If there is not enough coolant, the engine may burn out or overheat.
- Immediately after starting the engine, if the radiator reservoir does not have any coolant, perform the following: 1) stop the engine, 2) wait until the coolant has cooled down, and 3) add coolant until the coolant is filled to the F line.
- Run the engine at 2000 rpm until the coolant level has stabilized.

- (h) Press the No. 1 and No. 2 radiator hoses several times by hand to bleed air.

CAUTION:

- Wear protective gloves.
- Be careful as the radiator hoses are hot.
- Keep your hands away from the fan.

(i) Stop the engine, and wait until the engine coolant cools down to ambient temperature.

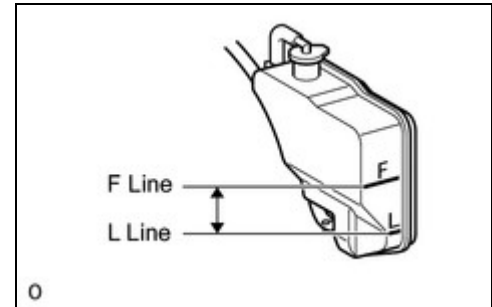
CAUTION:

Do not remove the radiator cap while the engine and radiator are still hot. Pressurized, hot engine coolant and steam may be released and cause serious burns.

(j) Check that the coolant level is between the F and L lines.

If the coolant level is below the L line, repeat all of the procedures above.

If the coolant level is above the F line, drain coolant so that the coolant level is between the F and L lines.



9. INSPECT FOR COOLANT LEAK [INFO](#)

10. INSTALL NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY [INFO](#)

11. INSTALL FRONT FENDER SPLASH SHIELD SUB-ASSEMBLY LH [INFO](#)

12. INSTALL FRONT FENDER SPLASH SHIELD SUB-ASSEMBLY RH [INFO](#)

13. INSPECT ENGINE COOLANT LEVEL [INFO](#)

14. INSTALL UPPER RADIATOR SUPPORT SEAL [INFO](#)

15. INSTALL ENGINE ROOM SIDE COVER RH [INFO](#)

16. INSTALL ENGINE ROOM SIDE COVER LH [INFO](#)

