

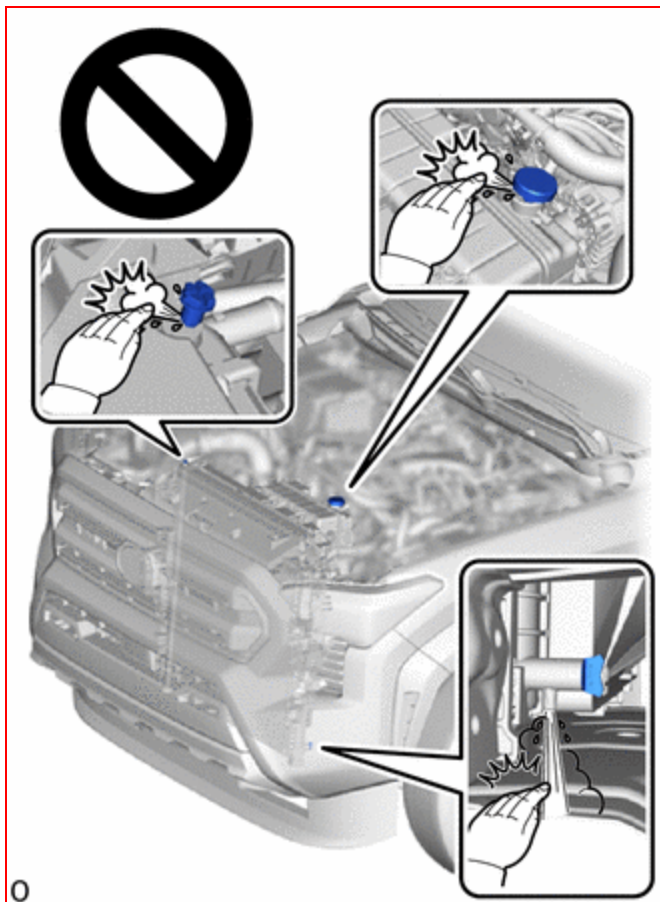
Last Modified: 04-03-2024	6.11:8.1.0	Doc ID: RM100000002L63Y
Model Year Start: 2024	Model: Tacoma	Prod Date Range: [03/2024 -]
Title: MAINTENANCE: T24A-FTS COOLANT (for Engine): REPLACEMENT; 2024 MY Tacoma Tacoma HV [03/2024 -]		

REPLACEMENT

CAUTION / NOTICE / HINT

CAUTION:

- Do not remove the radiator reserve tank cap or radiator drain cock plug or interface degas plug while the engine and radiator assembly are still hot. Pressurized, hot engine coolant and steam may be released and



cause serious burns.

- To prevent injury due to contact with an operating fan and generator V-ribbed belt or cooling fan, keep your hands and clothing away from the fan and generator V-ribbed belt and cooling fans when working in the



engine compartment with the engine running.

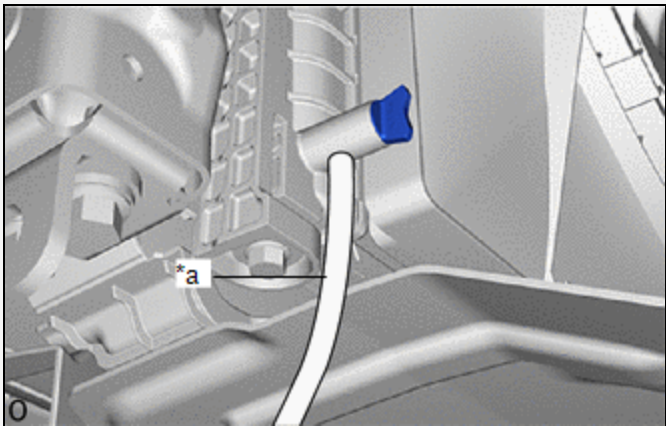
PROCEDURE

1. DRAIN ENGINE COOLANT (for Engine)

CAUTION:

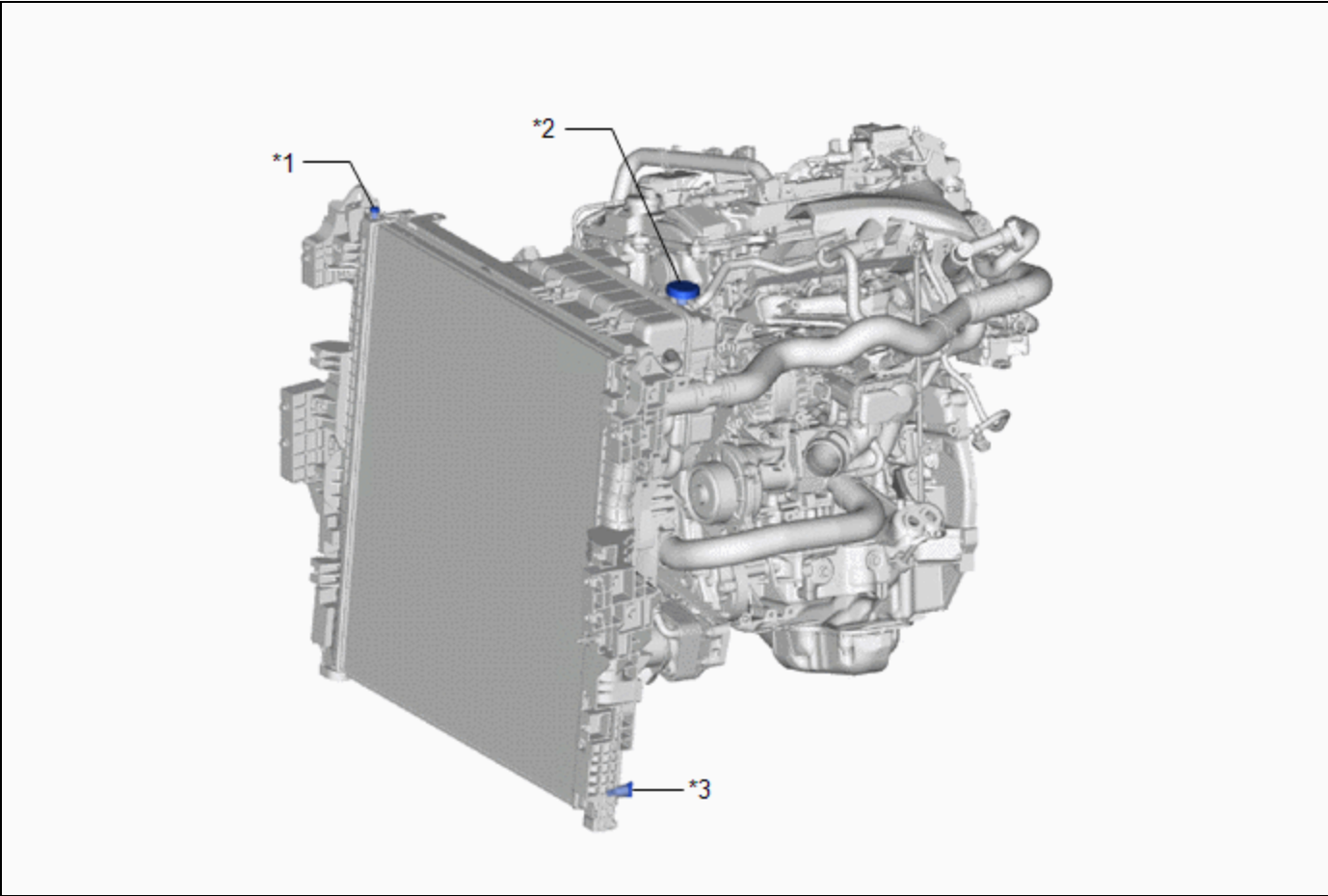
Do not remove the radiator reserve tank cap or radiator drain cock plug or interface degas plug while the engine and radiator assembly are still hot. Pressurized, hot engine coolant and steam may be released and cause serious burns.

(a) Connect a hose with an inside diameter of 9 mm (0.354 in.) to the radiator drain cock as shown in the illustration.



*a	Hose
----	------

(b) Remove interface degass plug.



*1	Interface Degass Plug	*2	Radiator Reserve Tank Cap
*3	Radiator Drain Cock Plug	-	-

(c) Remove the radiator reserve tank cap.

(d) Loosen the radiator drain cock plug. Then drain the engine coolant.

HINT:

- The rotation of the radiator drain cock plug requires 5 turns.
- Collect the engine coolant in a container and dispose of it according to the regulations in your area.

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

(f) Disconnect the hose from the radiator drain cock.

2. ADD ENGINE COOLANT (for Engine)**CAUTION:**

- Do not remove the radiator reserve tank cap or radiator drain cock plug or interface degas plug while the engine and radiator assembly are still hot. Pressurized, hot engine coolant and steam may be released and cause serious burns.
- To prevent injury due to contact with an operating fan and generator V-ribbed belt or cooling fan, keep your hands and clothing away from the fan and generator V-ribbed belt and cooling fans when working in the engine compartment with the engine running.

NOTICE:

Do not substitute plain water for engine coolant.

HINT:

- After detaching parts, the water control valve may not open even if the air does not escape only by the coolant replacement procedure and warms up.
- In that case, start over with drainage.

(a) Remove the interface degas plug. [*1]

(b) Remove the radiator reserve tank cap. [*2]

(c) Inject the specified concentration of coolant through the radiator reserve tank assembly until coolant level is at the B-line. [*3]

Specified Capacity:

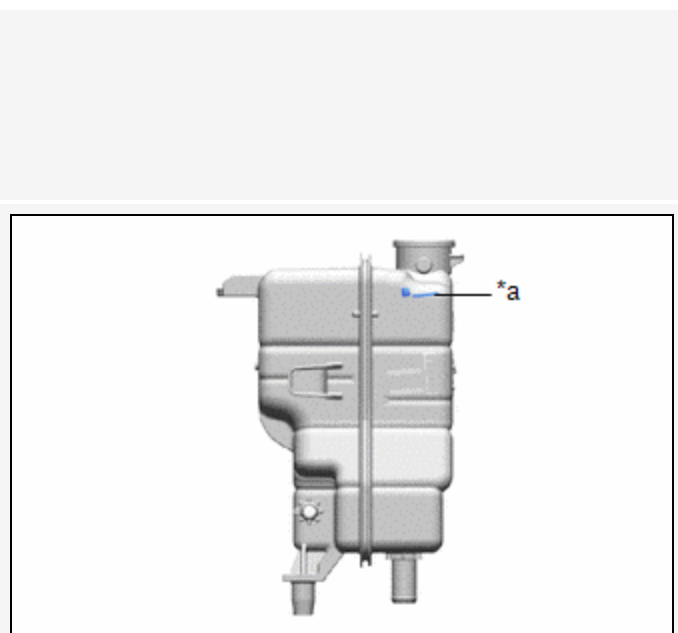
ITEM		SPECIFIED CONDITION
for 1Motor-HEV Model		11.9 liters (12.6 US qts, 10.5 Imp. qts)
for Gasoline Model	with Oil Cooler	12.1 liters (12.8 US qts, 10.6 Imp. qts)
	without Oil Cooler	11.9 liters (12.6 US qts, 10.5 Imp. qts)

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).



*a	B-line
----	--------

(d) Squeeze the No. 1 radiator hose and No. 2 radiator hose several times by hand, and then check the level of the engine coolant.

If the engine coolant level is low, add engine coolant.

(e) Install the interface degas plug. [*4]

Torque:

2.0 N·m {20 kgf·cm, 18 in·lbf}

(f) Install the radiator reserve tank cap. [*5]

(g) Bleed air from the cooling system. [*6]

(1) for Automatic Transmission:

1. Start the engine and with the shift lever in P , switch the water control valve to injection control and warm the engine.

NOTICE:

- Make sure that the radiator reserve tank assembly still has some engine coolant in it.
- If the engine coolant temperature gauge indicates an excessive temperature, turn off the engine and let it cool.
- If there is not enough engine coolant, the engine may overheat or be seriously damaged.
- If the radiator reserve tank assembly does not have enough engine coolant, perform the following: 1) stop the engine, 2) wait until the engine coolant cools down, and 3) add engine coolant until the radiator reserve tank assembly is filled to the F line.

(2) for Manual Transmission:

1. Start the engine and with the shift lever in N , switch the water control valve to injection control and warm the engine.

NOTICE:

- Make sure that the radiator reserve tank assembly still has some engine coolant in it.
- If the engine coolant temperature gauge indicates an excessive temperature, turn off the engine and let it cool.
- If there is not enough engine coolant, the engine may overheat or be seriously damaged.
- If the radiator reserve tank assembly does not have enough engine coolant, perform the following: 1) stop the engine, 2) wait until the engine coolant cools down, and 3) add engine coolant until the radiator reserve tank assembly is filled to the F line.

(3) Maintain the engine speed at 3000 rpm.

(4) Squeeze the No. 1 radiator hose and No. 2 radiator hose several times by hand to bleed air.

CAUTION:

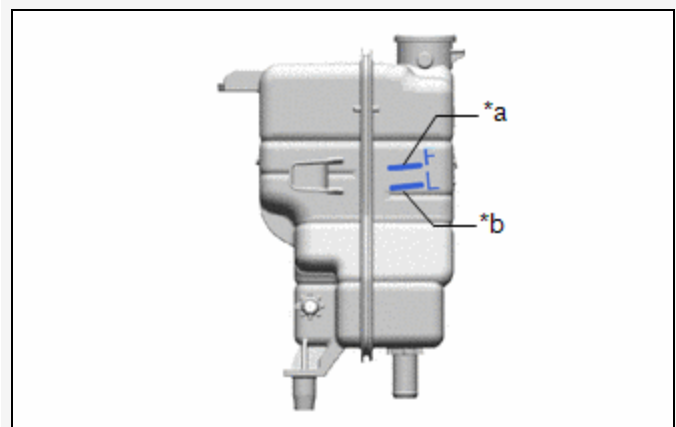
- Because the engine, radiator assembly, No. 1 radiator hose and No. 2 radiator hose are extremely hot, do not perform these procedures without wearing protective gloves.
- Performing these procedures without wearing protective gloves could result in burns.
- Touching rotating components such as the cooling fan could result in your hand or clothing getting caught and pulled in.

(h) Stop the engine, and wait until the engine coolant cools down. [*7]

(i) After the engine coolant cools down, check that the coolant level is at the F line. [*8]

HINT:

- If the engine coolant level is below the L line, repeat steps from [*1] to [*8].
- If the engine coolant level is above the F line, drain the engine coolant until the engine coolant level is between the F line and L line.



*a	F line
*b	L line

3. INSPECT FOR COOLANT LEAK (for Engine)

Click here [INFO](#)