

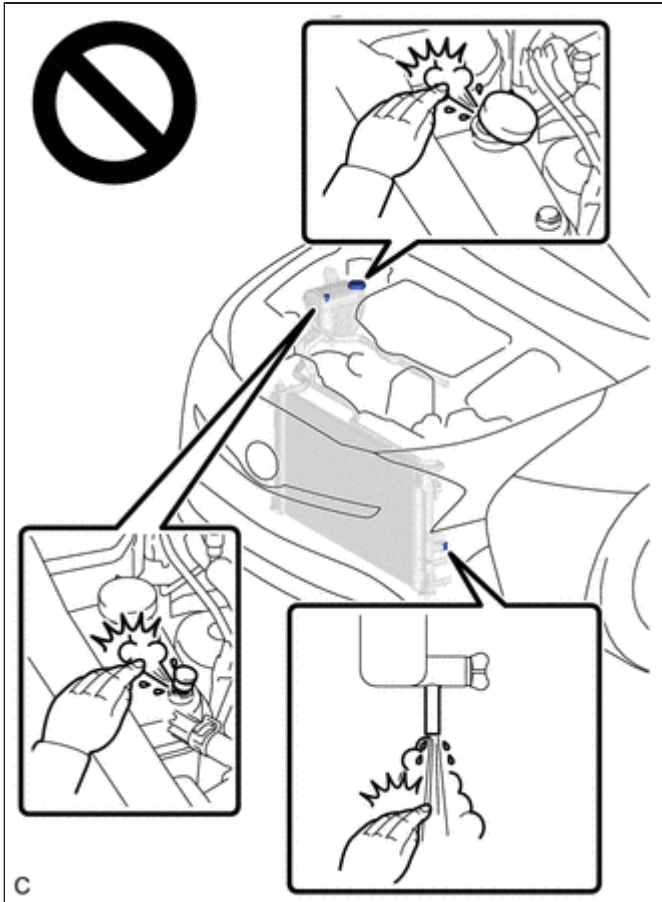
Last Modified: 01-14-2019	6.8:8.0.48	Doc ID: RM100000000TC4H
Model Year Start: 2016	Model: Prius	Prod Date Range: [11/2015 - 08/2016]
Title: 2ZR-FXE (COOLING): COOLANT (for Engine): REPLACEMENT; 2016 MY Prius [11/2015 - 08/2016]		

REPLACEMENT

CAUTION / NOTICE / HINT

CAUTION:

Do not remove the reserve tank cap, air release valve (w/ air release valve) or radiator drain cock plug while the engine and radiator assembly are still hot. Pressurized, hot engine coolant and steam may be released and cause serious burns.



PROCEDURE

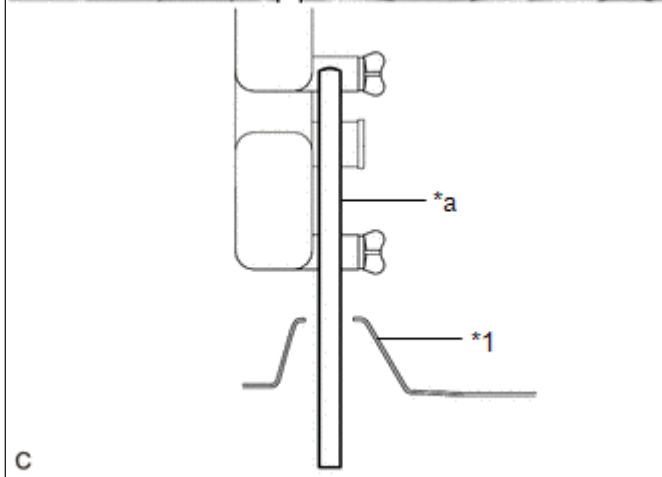
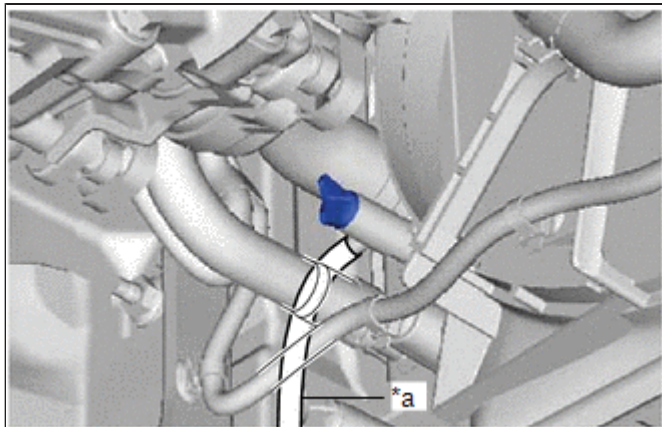
1. REMOVE REAR MOTOR UNDER COVER LH

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2. DRAIN ENGINE COOLANT (for Engine)

CAUTION:

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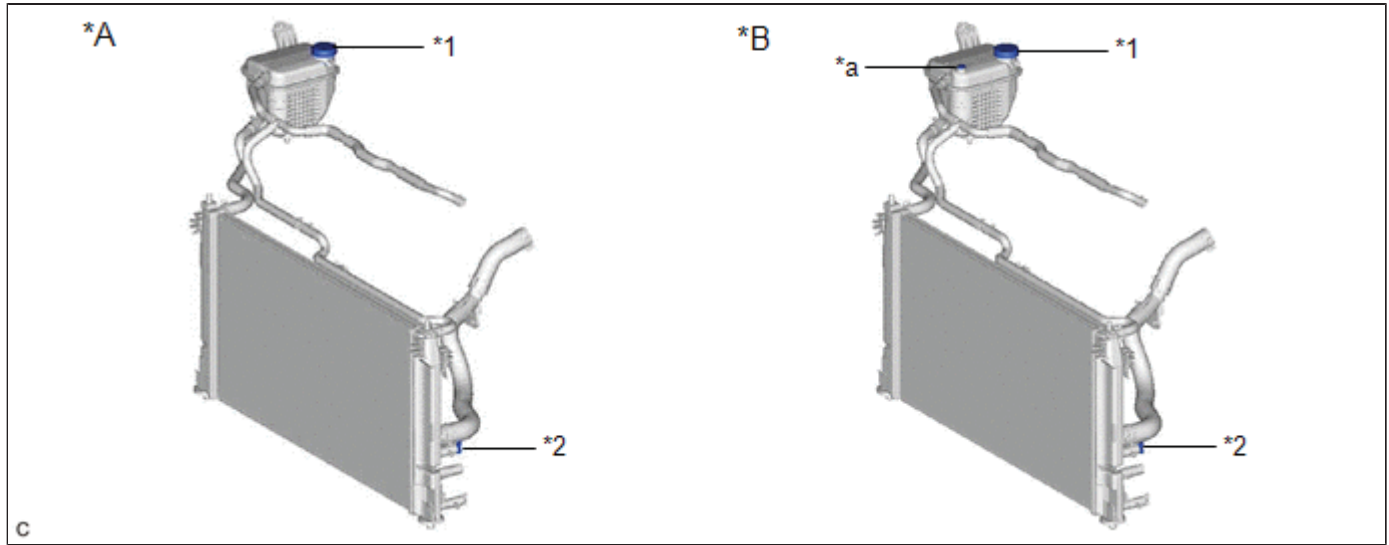


c

*1	No. 1 Engine Under Cover
*a	Hose

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

(b) Loosen the radiator drain cock plug.



c

*A	w/o Air Release Valve	*B	w/ Air Release Valve
*1	Reserve Tank Cap	*2	Radiator Drain Cock Plug
*a	Air Release Valve	-	-

(c) Remove the reserve tank cap. Then drain the engine coolant.

HINT:

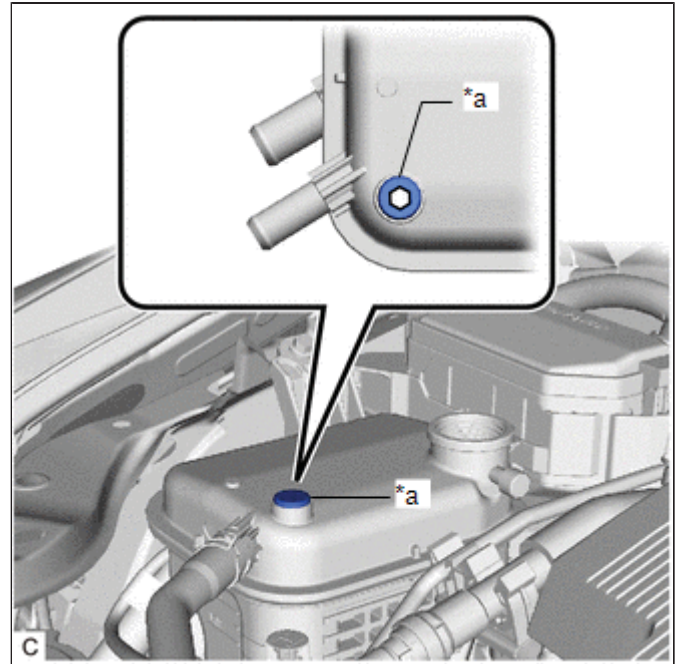
Collect the engine coolant in a container and dispose of it according to the regulations in your area.

- (d) Tighten the radiator drain cock plug by hand.
- (e) Disconnect the hose from the radiator drain cock.

3. ADD ENGINE COOLANT (for Engine)

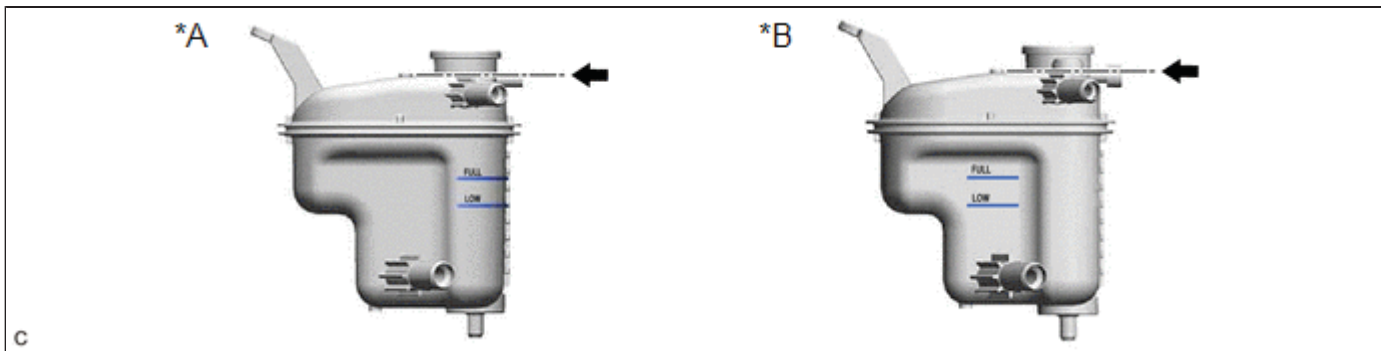
(a) w/ Air Release Valve:

(1) Using a 6 mm hexagon socket wrench, remove the air release valve from the radiator reserve tank assembly.



*a	Air Release Valve
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(b) Add coolant to the level shown in the illustration.



*A	w/o Air Release Valve	*B	w/ Air Release Valve
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Specified Capacity:

w/ Exhaust Heat Recirculation System	6.0 liters (6.3 US qts, 5.3 Imp. qts)
w/o Exhaust Heat Recirculation System	5.4 liters (5.7 US qts, 4.8 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 damaging 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 is a combination of low phosphates and organic acids).

- (c) 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.

- (d) w/ Air Release Valve:

(1) Using a 6 mm hexagon socket wrench, install the air release valve to the radiator reserve tank assembly.

Torque:

2.0 N·m {20 kgf·cm, 18 in·lbf}

- (e) Install the reserve tank cap.

NOTICE:

Securely tighten the reserve tank cap as much as possible.

- (f) Put the engine in inspection mode (maintenance mode).

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- (g) Bleed air from the cooling system.

NOTICE:

- Before starting the engine, turn the A/C switch off.
- Adjust the heater control to the maximum hot setting.
- Adjust the blower speed to the low setting.

(1) Warm up the engine until the water inlet with thermostat sub-assembly opens. While the water inlet with thermostat sub-assembly is open, circulate the engine coolant for several minutes.

HINT:

The water inlet with thermostat sub-assembly open timing can be confirmed by squeezing the No. 2 radiator hose by hand, and sensing vibrations when the engine coolant starts to flow inside the No. 2 radiator hose.

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

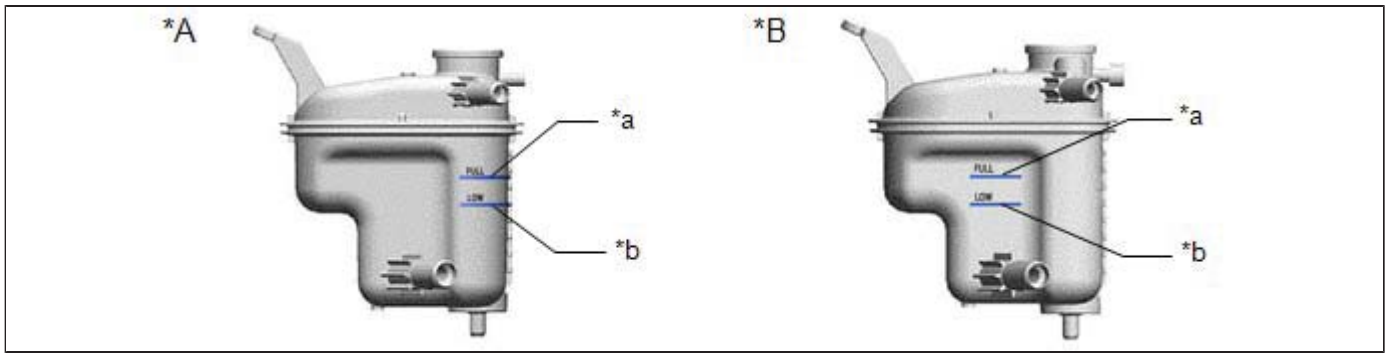
When squeezing the No. 1 radiator hose and No. 2 radiator hose:

- Wear protective gloves.
- Be careful as the No. 1 radiator hose and No. 2 radiator hose are hot.
- Keep your hands away from the fan LH and fan RH.

NOTICE:

- Make sure that the radiator reserve tank assembly still has some engine coolant in it.
- If the 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 has cooled down, and 3) add engine coolant until the radiator reserve tank assembly is filled to the FULL line.

- (h) After the engine has cooled down, check that the engine coolant level is between the FULL line and LOW line.



*A	w/o Air Release Valve	*B	w/ Air Release Valve
*a	FULL Line	*b	LOW Line

NOTICE:

The coolant levels in the compartments inside the radiator reserve tank assembly may differ, but this is not a malfunction.

If the engine coolant level is below the LOW line, add engine coolant to the FULL line.

4. INSPECT FOR COOLANT LEAK (for Engine)

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5. INSTALL REAR MOTOR UNDER COVER LH

Click here [INFO](#)

