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2005 TOYOTA Sequoia OEM Service and Repair Workshop Manual

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When replacing and removing components which rely on the corrosion protection effect of the coolant, it is essential to change the coolant. The cooling system must therefore be emptied and refilled.

In the case of other removal work involving the draining of part quantities of coolant, the coolant level must be topped up with new coolant.

- Mixing different coolants is not permitted.

Non-compliance will result in danger of component damage and/or engine damage.

- Filling specification absolutely must be adhered to.

The operation of the vehicle is not permitted unless the filling procedure has been completed. Otherwise, functional limitations (degradation) and/or overheating may occur.

A bleeding procedure is required after a part has been exchanged in the cooling system and/or after refilling the cooling system.

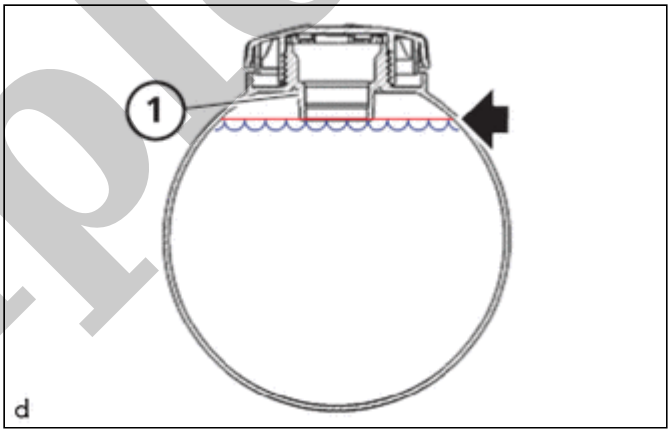
HINT:

- Before starting the automatic cooling system bleeding routine, make sure that all coolant circuits are filled. If the cooling system bleeding routine is started while one of the coolant circuits is empty, there is a risk of damage to the electric coolant pump when running it dry.
- Make sure that negative (-) battery terminal is not disconnected for the bleeding procedure. Switch on low-beam headlights and hazard warning lights. If the low-beam headlights and hazard warning lights are not switched on, the engine switch off automatically after a certain period of time and interrupt the bleeding procedure.

(a) Add engine coolant to the level shown in the illustration.

Standard Capacity:
9.9 liters (10.5 US qts, 8.7 Imp. qts)

(1) Expendable materials : Antifreeze and Corrosion Inhibitor Frostox HT-12



HINT:

When using Antifreeze and Corrosion Inhibitor Frostox HT-12, dilute the Antifreeze and Corrosion Inhibitor Frostox HT-12 to 50% before using it.

(b) Open the bleeder screw on the radiator reserve tank assembly for the high-temperature coolant circuit and close it again after approx. 10 s.

(1) You can close the bleeder screw prior to expiry of the 10 s once coolant escapes.

(c) Close the reserve tank cap sub-assembly on the radiator reserve tank assembly of the high-temperature cooling circuit.

(d) Make sure the bonnet is closed.[*1]

(e) Make sure that the wheels touch the ground.[*2]

(f) Engage the parking brake.[*3]

(g) Engage into both "P" or "N" automatic transmissions.[*4]

(h) Press the START-STOP button (engine switch) 3 times within 0.8 seconds to enter Diagnostic (PAD) Mode.[*5]

(i) Turn on low-beam headlight and the hazard warning light.[*6]

HINT:

If the low-beam headlights and hazard warning lights are not switched on, the engine switch off automatically after a certain period of time and interrupt the bleeding procedure.

(j) Adjust the heating to maximum temperature and adjust the blower to the lowest stage.[*7]

(k) Hold the accelerator pedal down for at least 10 s at limit position and do not step onto the brake pedal.[*8]

(l) Start engine.[*9]

(m) The cooling system bleeding routine has been started, pay attention to the display on the instrument cluster (KOMBI). ("Service function started")[*10]

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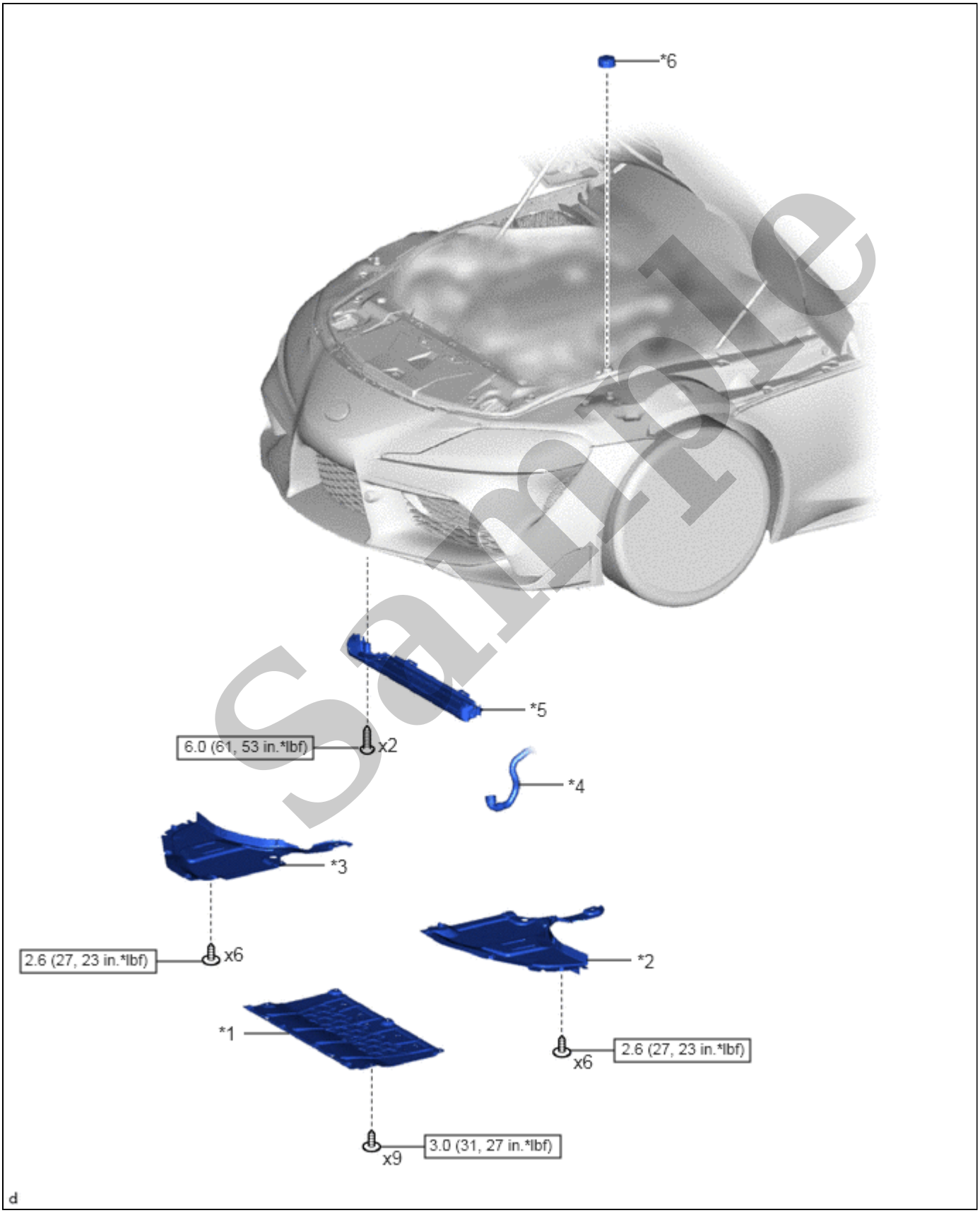
Model Year Start: 2021	**Model:** Supra	**Prod Date Range:** [07/2020 -]
Title: MAINTENANCE: B48 COOLANT (for Low Temperature): COMPONENTS; 2021 - 2025 MY Supra [07/2020 -]		

COMPONENTS

ILLUSTRATION



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Model Year Start: 2021	**Model:** Supra	**Prod Date Range:** [07/2020 -]
Title: MAINTENANCE: B48 COOLANT (for Low Temperature): REPLACEMENT; 2021 - 2025 MY Supra [07/2020 -]		

REPLACEMENT

PROCEDURE

1. REMOVE NO. 1 ENGINE UNDER COVER ASSEMBLY

Click here INFO

2. REMOVE FRONT FENDER SPLASH FRONT SHIELD LH

Click here INFO

3. REMOVE FRONT FENDER SPLASH FRONT SHIELD RH

HINT:

Use the same procedure as for the LH side.

4. DRAIN ENGINE COOLANT

CAUTION:

- Hot fluids.

  Risk of scalding!

  - Conduct all work in the vehicle wearing appropriate personal protective equipment only.

NOTICE:

- Life-long fill of coolant!
- Do not reuse used coolant.

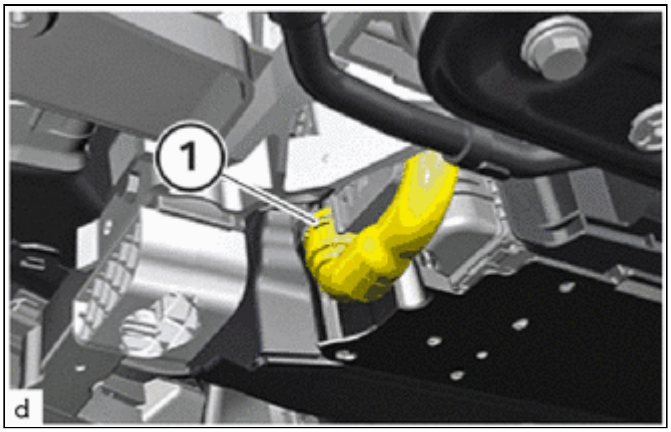
  When replacing and removing components which rely on the corrosion protection effect of the coolant, it is essential to change the coolant. The cooling system must therefore be emptied and refilled.

  In the case of other removal work involving the draining of part quantities of coolant, the coolant level must be topped up with new coolant.
- Collect and dispose of emerging fluids. Observe country-specific waste disposal regulations.

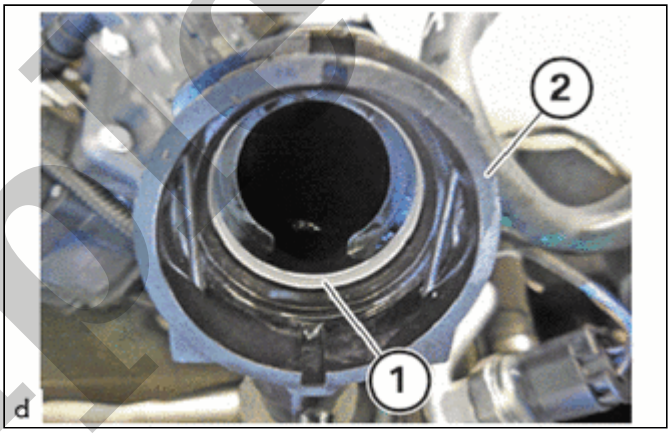
(a) Check that the START-STOP button (engine switch) off.

HINT:

Pressing and holding the AUDIO button changes the power source mode to IG OFF.



(g) Catch and dispose of escaping coolant.



(h) Check the sealing ring (1) of the No. 6 radiator hose (2) for damage and renew where required.

(i) Connect No. 6 radiator hose on No. 2 radiator assembly for low-temperature cooling system and lock.

HINT:

Make sure that the connections are locked correctly. The locks must engage audibly.

(j) Install the radiator lower air guide plate to the radiator assembly.

(1) The locks must engage audibly.

(k) Tighten T30 screws (arrows).

Torque:

6.0 N·m {61 kgf·cm, 53 in·lbf}

5. ADD ENGINE COOLANT

NOTICE:

- Life-long fill of coolant!
- Do not reuse used coolant.

  When replacing and removing components which rely on the corrosion protection effect of the coolant, it is essential to change the coolant. The cooling system must therefore be emptied and refilled.

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- Filling specification absolutely must be adhered to.