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Model Year Start: 2023	Model: Prius	Prod Date Range: [12/2022 -]
Title: M20A-FXS (COOLING): COOLING FAN SYSTEM (for HEV Model): ON-VEHICLE INSPECTION; 2023 - 2024 MY Prius [12/2022 -]		

ON-VEHICLE INSPECTION

CAUTION / NOTICE / HINT

CAUTION:

- When working near the engine room while the engine has started or the power source mode is ignition switch to ON, do not touch the rotating components such as the fan, etc.



- Touching rotating components such as the fan, etc. could result in your hand or clothing getting caught and pulled in.
- When the engine is hot, do not touch high-temperature areas such as the engine or exhaust manifold.



- Touching high-temperature areas such as the engine and exhaust manifold could result in burns.

PROCEDURE

1. INSPECT COOLING FAN SYSTEM OPERATION AT LOW TEMPERATURES

CAUTION:

- When working near the engine room while the engine has started or the power source mode is ignition switch to ON, do not touch the rotating components such as the fan, etc.
- Touching rotating components such as the fan, etc. could result in your hand or clothing getting caught and pulled in.
- When the engine is hot, do not touch high-temperature areas such as the engine or exhaust manifold.
- Touching high-temperature areas such as the engine and exhaust manifold could result in burns.

Pre-procedure1

(a) Check and ensure the following conditions:

- (1) Turn the ignition switch off.
- (2) The engine coolant temperature is less than 94°C (201°F).
- (3) The A/C switch is off.

Procedure1

(b) Turn the ignition switch to ON and wait for approximately 10 seconds. Check that the cooling fans are not operating.

Procedure2

(c) Check that the cooling fans operate when the water temperature sensor connector is disconnected.

Post-procedure1

(d) None

2. INSPECT COOLING FAN SYSTEM OPERATION AT HIGH TEMPERATURES

CAUTION:

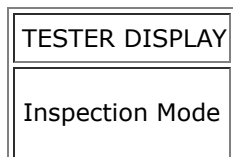
- When working near the engine room while the engine has started or the power source mode is ignition switch to ON, do not touch the rotating components such as the fan, etc.
- Touching rotating components such as the fan, etc. could result in your hand or clothing getting caught and pulled in.
- When the engine is hot, do not touch high-temperature areas such as the engine or exhaust manifold.
- Touching high-temperature areas such as the engine and exhaust manifold could result in burns.

Pre-procedure1

(a) Check and ensure the following conditions:

- (1) Put the engine in Inspection Mode (Maintenance Mode).

Powertrain > Hybrid Control > Utility



- (2) Warm up the engine.
- (3) The engine coolant temperature is less than 94°C (201°F).
- (4) The A/C switch is off.

Procedure1

(b) Start the engine. Check that the cooling fans are not operating.

Procedure2

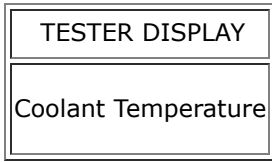
(c) Check that the cooling fans start operating when the engine coolant temperature reaches approximately 96°C (205°F).

HINT:

This system can also be checked using the GTS.

Enter the following menus: Powertrain / Engine / Data List / Coolant Temperature.

Powertrain > Engine > Data List



Post-procedure1

(d) None

