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| Last Modified: 12-04-2024 | 6.11:8.1.0 | Doc ID: RM1000000299KN |
| Model Year Start: 2023 | Model: Prius Prime | Prod Date Range: [12/2022 -] |
| Title: EXTERIOR PANELS / TRIM: GRILLE SHUTTER SYSTEM: Grille Shutter is Half Opened/Closed; 2023 - 2024 MY Prius Prius Prime [12/2022 -] | | |

Grille Shutter is Half Opened/Closed

DESCRIPTION

The radiator shutter assembly may be half open (half closed) due to foreign matter, such as snow or dirt.

CAUTION / NOTICE / HINT

NOTICE:

- Before performing troubleshooting, change the grille shutter control mode to maintenance mode.

Click here [INFO](#)

- If the radiator shutter assembly has been replaced with a new one, perform initialization and change the grille shutter control mode.

Click here [INFO](#)

PROCEDURE

1. PERFORM UTILITY USING GTS (SWITCH GRILLE SHUTTER CONTROL MODE)

- (a) According to the display on the GTS, change the grille shutter control mode from normal mode to maintenance mode.

Click here [INFO](#)

Powertrain > Engine > Utility

| |
|------------------------------------|
| TESTER DISPLAY |
| Switch Grille Shutter Control Mode |

- (b) Read the Data List according to the display on the GTS.

Powertrain > Engine > Data List

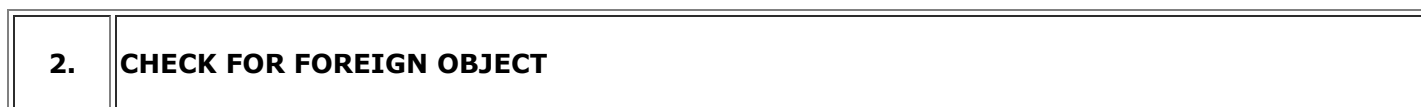
| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|-----------------------------|------------------------------------|-----------------------|--|-----------------|
| Grille Shutter Control Mode | Grille shutter control mode status | Normal or Maintenance | <ul style="list-style-type: none"> • Normal: Normal mode • Maintenance: Maintenance mode | - |

Powertrain > Engine > Data List



(c) Check that "Maintenance" is displayed for Data List item "Grille Shutter Control Mode".

NEXT



(a) Check that the radiator shutter assembly is free of foreign matter and ice.

OK:

The radiator shutter assembly is free of foreign matter and ice.

NG **FOREIGN OBJECT (REMOVE FOREIGN MATTER AND/OR ICE)**

OK



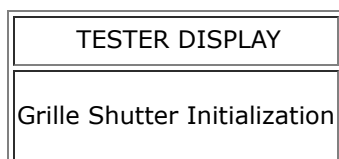
HINT:

When changing the grille shutter control mode and/or performing initialization by driving the vehicle, the grille shutter control mode can only be changed and initialization can only be performed if the grille shutter system is in maintenance mode.

Click here

(a) According to the display on the GTS, perform Grille Shutter Initialization.

Powertrain > Engine > Utility



NEXT



4. PERFORM ACTIVE TEST USING GTS (CONTROL THE GRILLE SHUTTER)

(a) Use the GTS to perform Active Test to operate the grille shutter and remove any foreign matter.

HINT:

If foreign matter is trapped on the opening side, move the grille shutter in the closing direction. If foreign matter is trapped on the closing side, move the grille shutter in the opening direction.

Powertrain > Engine > Active Test

| TESTER DISPLAY | MEASUREMENT ITEM | CONTROL RANGE | DIAGNOSTIC NOTE |
|----------------------------|-----------------------------------|---------------------------|---|
| Control the Grille Shutter | Control the swing grille actuator | 0% (open) to 100% (close) | Perform this test when the following conditions are met: <ul style="list-style-type: none"> Ignition switch ON Auxiliary battery voltage 10.5 to 16 V |

Powertrain > Engine > Active Test

| |
|----------------------------|
| TESTER DISPLAY |
| Control the Grille Shutter |

NEXT



5. PERFORM UTILITY USING GTS (SWITCH GRILLE SHUTTER CONTROL MODE)

(a) According to the display on the GTS, change the grille shutter control mode from maintenance mode to normal mode.

Click here [INFO](#)

Powertrain > Engine > Utility

| |
|------------------------------------|
| TESTER DISPLAY |
| Switch Grille Shutter Control Mode |

(b) Read the Data List according to the display on the GTS.

Powertrain > Engine > Data List

| TESTER DISPLAY | MEASUREMENT ITEM | RANGE | NORMAL CONDITION | DIAGNOSTIC NOTE |
|-----------------------------|-----------------------------|-----------------------|--|-----------------|
| Grille Shutter Control Mode | Grille shutter control mode | Normal or Maintenance | Normal: Normal mode Maintenance: Maintenance mode | - |

Powertrain > Engine > Data List

| TESTER DISPLAY |
|-----------------------------|
| Grille Shutter Control Mode |

(c) Check that "Normal" is displayed for Data List item "Grille Shutter Control Mode".

NEXT  **END**

