

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000000299KJ
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: EXTERIOR PANELS / TRIM: GRILLE SHUTTER SYSTEM: SYSTEM DESCRIPTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

SYSTEM DESCRIPTION

GRILLE SHUTTER SYSTEM

(a) General description

The swing grille actuator assembly receives signals from the ECM via LIN communication. Based on these signals, the swing grille actuator assembly operates the radiator shutter assembly.

(b) Control List

CONTROL	DESCRIPTION
Closing Operation Control	The grille shutter closes when certain conditions related to the vehicle speed, engine coolant temperature, inverter coolant temperature, ambient temperature and refrigerant pressure are met.
Opening Operation Control	The grille shutter opens when certain conditions related to the vehicle speed, engine coolant temperature, inverter coolant temperature, ambient temperature and refrigerant pressure are met.
Ignition Switch Off-linked Opening Operation Control	Opens the grille shutter when the ignition switch is turned off in order to prevent the grille shutter from becoming stuck closed while the vehicle is stopped.
Retry Operation	If a mechanical malfunction is detected during a grille shutter operation, the operation will be attempted again.

