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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: SEAT BELT: SEAT BELT WARNING SYSTEM (w/o Occupant Classification System): SYSTEM DESCRIPTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

SYSTEM DESCRIPTION

SEAT BELT WARNING SYSTEM DESCRIPTION

(a) Seat belt warning light operation for driver seat belt:

The seat belt warning light on the combination meter assembly illuminates, blinks or turns off in accordance with the driver seat belt state, vehicle speed, shift lever position and parking brake state.

(b) Seat belt warning light operation for front passenger seat belt:

The seat belt warning light on the combination meter assembly illuminates, blinks or turns off in accordance with whether the front passenger seat is occupied, the front passenger seat belt state, vehicle speed, shift lever position and parking brake state.

(c) Seat belt warning light operation for rear seat belt:

The rear seat belt warning light on the combination meter assembly illuminates, blinks or turns off in accordance with the rear door state, rear seat belt state, vehicle speed, shift lever position and parking brake state.

(d) Seat belt warning buzzer operation for front seat belt:

When the vehicle is driven at approximately 20 km/h (12 mph) or more with the front passenger seat occupied and the driver or front passenger seat belt not fastened, the seat belt warning buzzer in the combination meter assembly will sound at an interval of 2 seconds for 24 seconds.

After that, the seat belt warning buzzer in the combination meter assembly will sound at an interval of 0.4 seconds for 100 seconds.

(e) Seat belt warning buzzer operation for rear seat belt:

When the vehicle is driven at approximately 20 km/h (12 mph) or more with a rear seat belt not fastened, the seat belt warning buzzer in the combination meter assembly will sound once.

After the seat belt warning buzzer in the combination meter assembly sounded once, the seat belt warning buzzer in the combination meter assembly will sound at an interval of 1.2 seconds for 6 seconds.

After that, the seat belt warning buzzer in the combination meter assembly will sound at an interval of 0.4 seconds for 60 seconds.

FUNCTION OF MAIN COMPONENTS

COMPONENT	FUNCTION
Front seat inner belt assembly LH	Informs the combination meter assembly of the driver seat belt condition (fastened or unfastened).
Front seat inner belt assembly RH	Informs the power distribution box assembly of the front passenger seat belt condition (fastened or unfastened).
Occupant detection sensor (separate type front seat cushion pad (front passenger seat))	Informs the power distribution box assembly of the front passenger seat condition (occupied or unoccupied).
Combination meter assembly	<ul style="list-style-type: none"> • Illuminates, blinks or turns off the seat belt warning light. • Illuminates, blinks or turns off the rear seat belt warning light.

COMPONENT	FUNCTION
	<ul style="list-style-type: none"> • Sounds the seat belt warning buzzer.
<ul style="list-style-type: none"> • Rear seat inner belt assembly RH • Rear seat inner with center belt assembly LH 	Sends the rear seat belt buckle switch signal to the power distribution box assembly.
<ul style="list-style-type: none"> • Rear door lock with motor assembly RH • Rear door lock with motor assembly LH 	Sends the rear door courtesy switch signal to the main body ECU (multiplex network body ECU).
Main body ECU (multiplex network body ECU)	<ul style="list-style-type: none"> • Sends the front passenger seat belt buckle switch signal to the combination meter assembly via CAN communication. • Sends the rear seat belt buckle switch signal to the combination meter assembly via CAN communication. • Sends the rear door courtesy switch signal to the combination meter assembly via CAN communication.
Power distribution box assembly	<ul style="list-style-type: none"> • Sends the front passenger seat belt buckle switch signal to the main body ECU (multiplex network body ECU) via CXPI communication. • Sends the occupant detection signal to the main body ECU (multiplex network body ECU) via CXPI communication. • Sends the rear seat belt buckle switch signal to the main body ECU (multiplex network body ECU) via CXPI communication.
No. 2 skid control ECU (brake actuator assembly)	<ul style="list-style-type: none"> • Sends the vehicle speed signal to the combination meter assembly via CAN communication. • Sends the parking brake switch signal to the combination meter assembly via CAN communication.
Hybrid vehicle control ECU	Sends the shift position signal to the combination meter assembly via CAN communication.

