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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HEATING / AIR CONDITIONING: AIR CONDITIONING SYSTEM (for PHEV Model): U010087,U011187,U013187,U014087,U015587,U016387,U019887,U029387; Lost Communication with ECM/PCM "A" Missing Message; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	U010087	Lost Communication with ECM/PCM "A" Missing Message
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DTC	U011187	Lost Communication with Hybrid/EV Battery Energy Control Module "A" Missing Message
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DTC	U013187	Lost Communication with Power Steering Control Module Missing Message
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DTC	U014087	Lost Communication with Body Control Module Missing Message
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DTC	U015587	Lost Communication with Instrument Panel Cluster (IPC) Control Module Missing Message
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DTC	U016387	Lost Communication with Navigation Control Module Missing Message
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DTC	U019887	Lost Communication with Telematic Control Module "A" Missing Message
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DTC	U029387	Lost Communication with Hybrid/EV Powertrain Control Module Missing Message
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DESCRIPTION

These DTCs are stored when the CAN communication system is malfunctioning.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE
U010087	Lost Communication with ECM/PCM "A" Missing Message	Diagnosis Condition: IG voltage 8.5 V or higher Malfunction Status: No communication with ECM Detection Time: Continuously for 10 seconds or more	<ul style="list-style-type: none"> CAN communication system ECM Air conditioning amplifier assembly 	Come on	Memorized	Air Conditioner	B	SAE Code: U0100
U011187	Lost Communication with Hybrid/EV Battery Energy Control Module "A" Missing Message	Diagnosis Condition: IG voltage 8.5 V or higher Malfunction Status: No communication with battery ECU assembly Detection Time: Continuously for 10 seconds or more	<ul style="list-style-type: none"> CAN communication system Battery ECU assembly Air conditioning amplifier assembly 	Come on	Memorized	Air Conditioner	B	SAE Code: U0111
U013187	Lost Communication with Power Steering Control Module Missing Message	Diagnosis Condition: IG voltage 8.5 V or higher Malfunction Status: No communication with power steering ECU assembly Detection Time: Continuously for 10 seconds or more	<ul style="list-style-type: none"> CAN communication system Power steering ECU assembly Air conditioning amplifier assembly 	Does not come on	Memorized	Air Conditioner	B	-

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE
U014087	Lost Communication with Body Control Module Missing Message	<p>Diagnosis Condition:</p> <p>IG voltage 8.5 V or higher</p> <p>Malfunction Status:</p> <p>No communication with main body ECU (multiplex network body ECU)</p> <p>Detection Time:</p> <p>Continuously for 10 seconds or more</p>	<ul style="list-style-type: none"> CAN communication system Main body ECU (multiplex network body ECU) Air conditioning amplifier assembly 	Does not come on	Memorized	Air Conditioner	B	-
U015587	Lost Communication with Instrument Panel Cluster (IPC) Control Module Missing Message	<p>Diagnosis Condition:</p> <p>IG voltage 8.5 V or higher</p> <p>Malfunction Status:</p> <p>No communication with combination meter assembly</p> <p>Detection Time:</p> <p>Continuously for 10 seconds or more</p>	<ul style="list-style-type: none"> CAN communication system Combination meter assembly Air conditioning amplifier assembly 	Does not come on	Memorized	Air Conditioner	B	-
U016387	Lost Communication with Navigation Control Module Missing Message	<p>Diagnosis Condition:</p> <p>IG voltage 8.5 V or higher</p> <p>Malfunction Status:</p> <p>No communication with radio and display receiver assembly</p> <p>Detection Time:</p> <p>Continuously for 10 seconds</p>	<ul style="list-style-type: none"> CAN communication system Radio and display receiver assembly Air conditioning amplifier assembly 	Does not come on	Memorized	Air Conditioner	B	-

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE
		or more						
U019887	Lost Communication with Telematic Control Module "A" Missing Message	Diagnosis Condition: IG voltage 8.5 V or higher Malfunction Status: No communication with DCM (telematics transceiver) Detection Time: Continuously for 10 seconds or more	<ul style="list-style-type: none"> CAN communication system DCM (telematics transceiver) Air conditioning amplifier assembly 	Does not come on	Memorized	Air Conditioner	B	-
U029387	Lost Communication with Hybrid/EV Powertrain Control Module Missing Message	Diagnosis Condition: IG voltage 8.5 V or higher Malfunction Status: No communication with hybrid vehicle control ECU Detection Time: Continuously for 10 seconds or more	<ul style="list-style-type: none"> CAN communication system Hybrid vehicle control ECU Air conditioning amplifier assembly 	Come on	Memorized	Air Conditioner	B	SAE Code: U0293

MONITOR DESCRIPTION

When there is a communication malfunction or communication stop between the air conditioning amplifier assembly and each ECU, the air conditioning amplifier assembly illuminates the MIL and stores this DTC.

MONITOR STRATEGY

Related DTCs	U0100: Lost Communication with ECM/PCM "A" Missing Message U0111: Hybrid/EV Battery Energy Control Module "A" Missing Message U0293: Hybrid/EV Powertrain Control Module Missing Message
Required Sensors/Components (Main)	Air conditioning amplifier assembly
Required Sensors/Components (Related)	-
Frequency of Operation	Continuous
Duration	10 seconds

MIL Operation	Immediate
Sequence of Operation	None

TYPICAL ENABLING CONDITIONS

Battery voltage	10 V or higher
Time after Ignition switch OFF to ON	10 seconds

TYPICAL MALFUNCTION THRESHOLDS

U0100

Communication signal	Lost communication with ECM
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U0111

Communication signal	Lost communication with battery ECU assembly
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U0293

Communication signal	Lost communication with hybrid vehicle control ECU
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CONFIRMATION DRIVING PATTERN

HINT:

- After repair has been completed, clear the DTC and then check that the vehicle has returned to normal by performing the following All Readiness check procedure.

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- When clearing the permanent DTCs, refer to the "CLEAR PERMANENT DTC" procedure.

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- Connect the GTS to the DLC3.
- Turn the ignition switch to ON.
- Turn the GTS on.
- Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
- Turn the ignition switch off and wait for at least 30 seconds.
- Turn the ignition switch to ON. [A].
- Turn the GTS on.
- Wait 10 seconds or more.[B]
- Enter the following menus: Body Electrical / Air Conditioner / Trouble Codes [C].
- Read the pending DTCs.

HINT:

- If a pending DTC is output, the system is malfunctioning.
- If a pending DTC is not output, perform the following procedure.

- Enter the following menus: Body Electrical / Air Conditioner / Utility / All Readiness.
- Input the DTC: U010087, U011187 or U029387.
- Check the DTC judgment result.

GTS DISPLAY	DESCRIPTION
NORMAL	<ul style="list-style-type: none"> DTC judgment completed System normal
ABNORMAL	<ul style="list-style-type: none"> DTC judgment completed

GTS DISPLAY	DESCRIPTION
	<ul style="list-style-type: none"> System abnormal
INCOMPLETE	<ul style="list-style-type: none"> DTC judgment not completed Perform driving pattern after confirming DTC enabling conditions

HINT:

- If the judgment result is NORMAL, the system is normal.
- If the judgment result is ABNORMAL, the system is malfunctioning.
- If the judgment result is INCOMPLETE, perform steps [A] through [C] again.
- [A] to [C]: Normal judgment procedure.

The normal judgment procedure is used to complete DTC judgment and also used when clearing permanent DTCs.

- When clearing the permanent DTCs, do not disconnect the cable from the auxiliary battery terminal or attempt to clear the DTCs during this procedure, as doing so will clear the universal trip and normal judgment histories.

PROCEDURE

1.	GO TO CAN COMMUNICATION SYSTEM
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HINT:

If CAN communication DTCs are output, refer to How to Proceed with Troubleshooting for the CAN communication system.

Click here

[INFO](#)

NEXT  **END**

