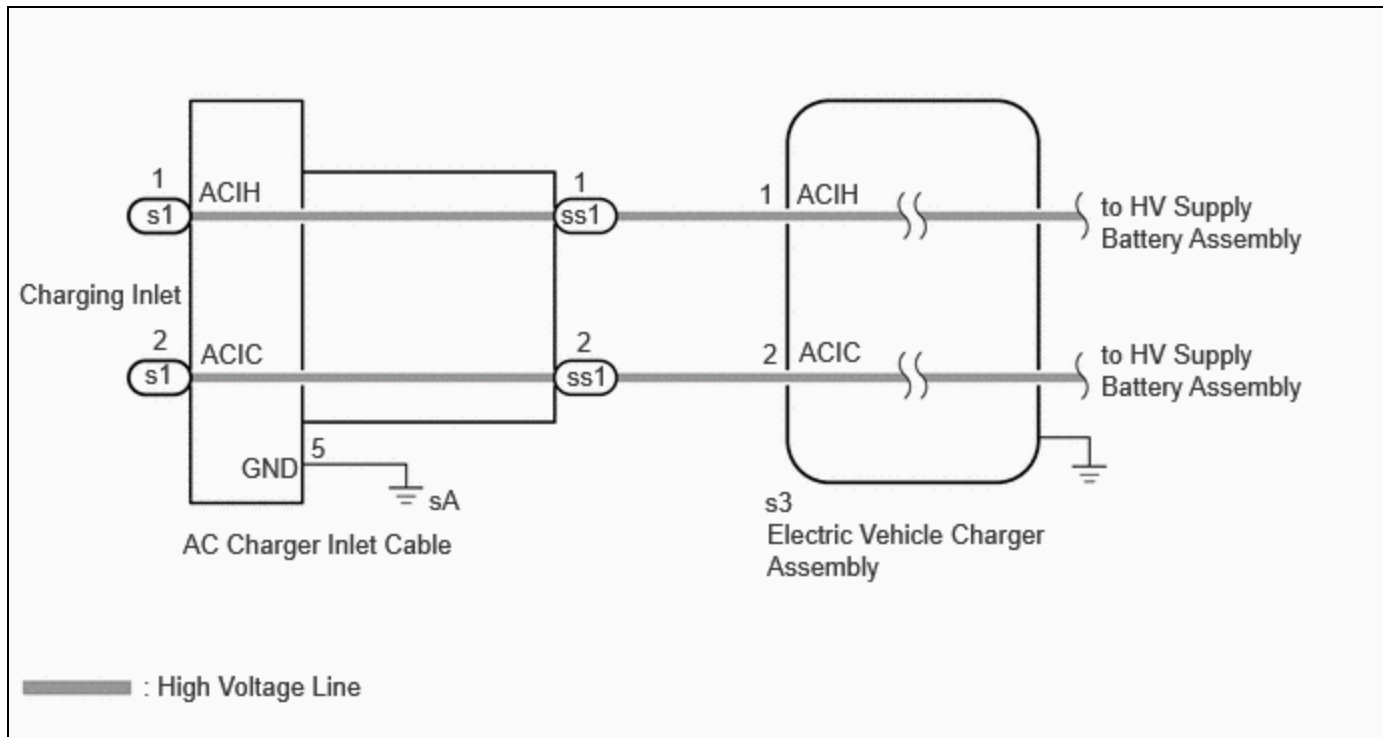


Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002BEI7
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): Open in AC Line; 2023 - 2024 MY Prius Prime [03/2023 -]		

[Open in AC Line](#)

WIRING DIAGRAM



CAUTION / NOTICE / HINT

CAUTION:

Refer to the precautions before inspecting high voltage circuit.

[Click here](#) **INFO**

NOTICE:

- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

[Click here](#) **INFO**

- When disconnecting and reconnecting the auxiliary battery.

HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

[Click here](#) **INFO**

PROCEDURE

1.	CHECK CHARGING CABLE (ELECTRIC VEHICLE CHARGER CABLE ASSEMBLY) (CONNECTION CONDITION)
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(a) Visual inspection

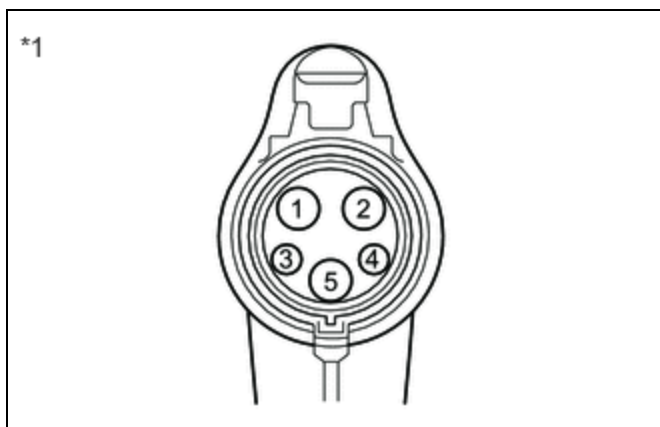
HINT:

- When performing a visual inspection, compare the charging cable (electric vehicle charger cable assembly) with a known good one.
- If the power source plug is damaged, replace the charging cable (electric vehicle charger cable assembly).
- Due to the characteristics of the charging cable (electric vehicle charger cable assembly), it may become stiff or twisted. This is not a malfunction.
- If the charging cable (electric vehicle charger cable assembly) is would tightly or repeatedly folded for storage, twists may form more easily and can lead to an open-circuit.
- Confirm that there is no sign of changes to the charging cable (electric vehicle charger cable assembly) (cable or plug construction, deformation of connector or CCID thread, etc.)
- If the charging cable (electric vehicle charger cable assembly) has been dropped or run over, a malfunction may occur.

(1) Check if any foreign matter is attached to the connecting part of the charging cable (electric vehicle charger cable assembly).

HINT:

If there is foreign matter in the charging connector which prevents it from being securely connected, charging will not be performed.

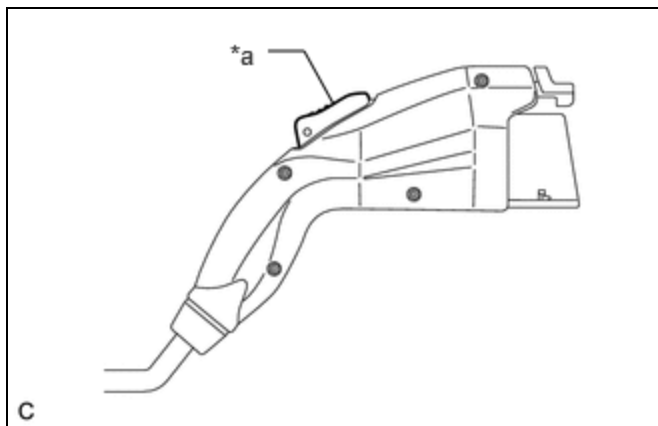


*1

*1	Charging Cable (Electric Vehicle Charger Cable Assembly) (Charging Connector Side)
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(b) Check the latch release button (PISW)

(1) Check that the latch release button (PISW) can be pressed with no abnormal resistance.



*a	Latch Release Button (PISW)
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(c) Check connection

- (1) Check that the charging cable (electric vehicle charger cable assembly) and inlet AC charger cable (charging inlet side) can be connected smoothly.

OK:

The charging cable (electric vehicle charger cable assembly) and inlet AC charger cable (charging inlet side) connect smoothly.

HINT:

If the result is not as specified, perform the following checks.

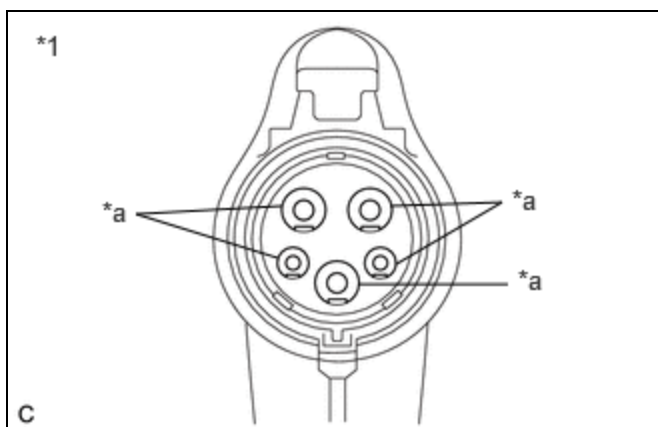
- (2) Check that the terminals of the charging cable (electric vehicle charger cable assembly) (charging connector side) are not bent or deformed.

OK:

The terminals are not bent or deformed.

HINT:

If the result is not as specified, replace the charging cable (electric vehicle charger cable assembly).



*1	Charging Cable (Electric Vehicle Charger Cable Assembly) (Charging Connector Side)
*a	Terminal

- (3) Check that the terminals of the inlet AC charger cable (charging inlet side) are not bent or deformed.

OK:

The terminals are not bent or deformed.

HINT:

If the result is not as specified, replace the inlet AC charger cable (charging inlet side).



*1	Inlet AC Charger Cable (Charging Inlet Side)
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NG  **REPLACE MALFUNCTIONING PARTS**

OK



2. CHECK AC CHARGER INLET CABLE (CHARGING INLET - EV CHARGER WIRE CONNECTOR)

CAUTION:

Be sure to wear insulated gloves.

(a) Check that the service plug grip is not installed.

NOTICE:

After removing the service plug grip, do not turn the ignition switch to ON (READY), unless instructed by the repair manual because this may cause a malfunction.

(b) Disconnect the ss1 AC charger inlet cable connector.

(c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

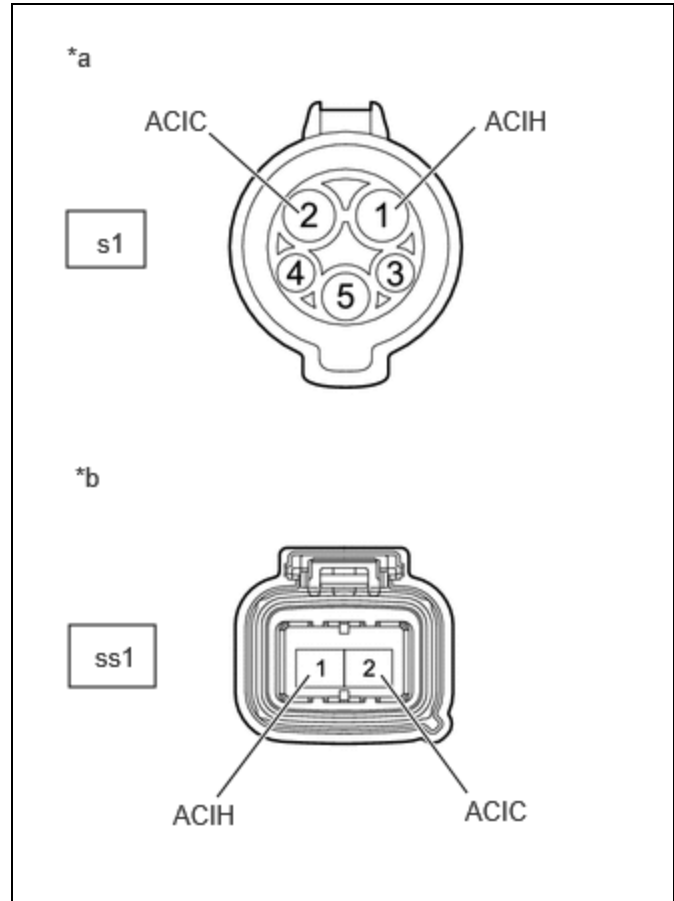


[Click Location & Routing\(s1,ss1\)](#)

[Click Connector\(s1\)](#)

[Click Connector\(ss1\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
s1-1 (ACIH) - ss1-1 (ACIH)	Ignition switch off	Below 1 Ω
s1-2 (ACIC) - ss1-2 (ACIC)	Ignition switch off	Below 1 Ω



*a	AC Charger Inlet Cable (Charging Inlet)
*b	AC Charger Inlet Cable (to EV Charger Wire)

(d) Reconnect the AC charger inlet cable connector.

NG ▶ REPLACE AC CHARGER INLET CABLE

OK
▼

3.	CHECK EV CHARGER WIRE (ELECTRIC VEHICLE CHARGER ASSEMBLY - AC CHARGER INLET CABLE)
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CAUTION:

Be sure to wear insulated gloves.

(a) Check that the service plug grip is not installed.

NOTICE:

After removing the service plug grip, do not turn the ignition switch to ON (READY), unless instructed by the repair manual because this may cause a malfunction.

- (b) Disconnect the s3 electric vehicle charger assembly connector.
- (c) Disconnect the ss1 AC charger inlet cable connector.

(d) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

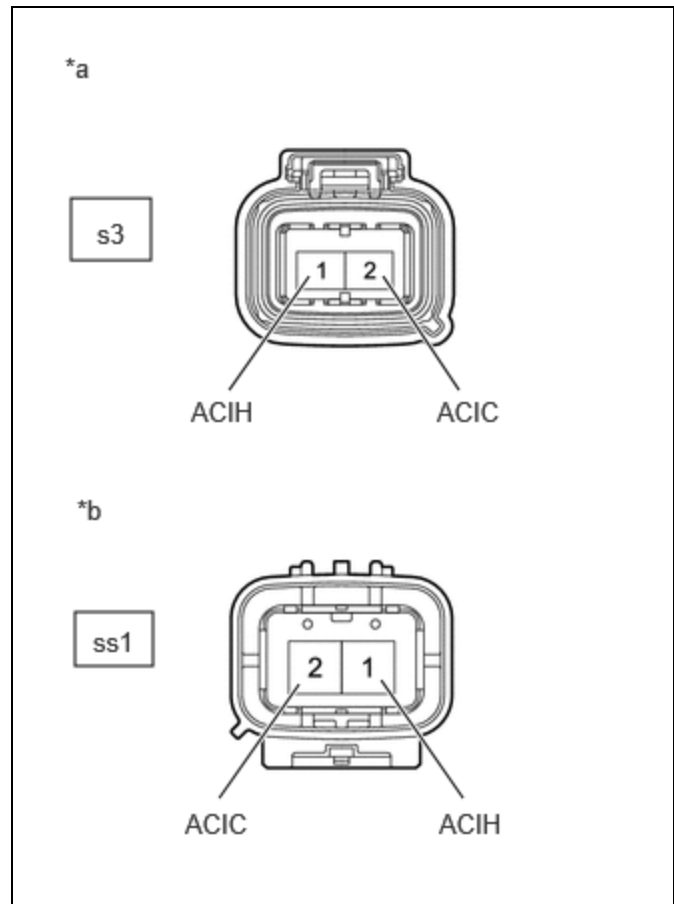


[Click Location & Routing\(s3,ss1\)](#)

[Click Connector\(s3\)](#)

[Click Connector\(ss1\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
s3-1(ACIH) - ss1-1(ACIH)	Ignition switch off	Below 1 Ω
s3-2(ACIC) - ss1-2(ACIC)	Ignition switch off	Below 1 Ω



*a	Front view of wire harness connector (to Electric Vehicle Charger Assembly)
*b	Front view of wire harness connector (AC Charger Inlet Cable Side)

- (e) Reconnect the AC charger inlet cable connector.
- (f) Reconnect the electric vehicle charger assembly connector.

OK ▶ REPLACE ELECTRIC VEHICLE CHARGER ASSEMBLY

NG ▶ REPLACE EV CHARGER WIRE

