

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000029QX7
Model Year Start: 2023	Model: Prius	Prod Date Range: [12/2022 -]
Title: HYBRID / BATTERY CONTROL: HV RELAY ASSEMBLY (for HEV Model): INSPECTION; 2023 - 2024 MY Prius [12/2022 -]		

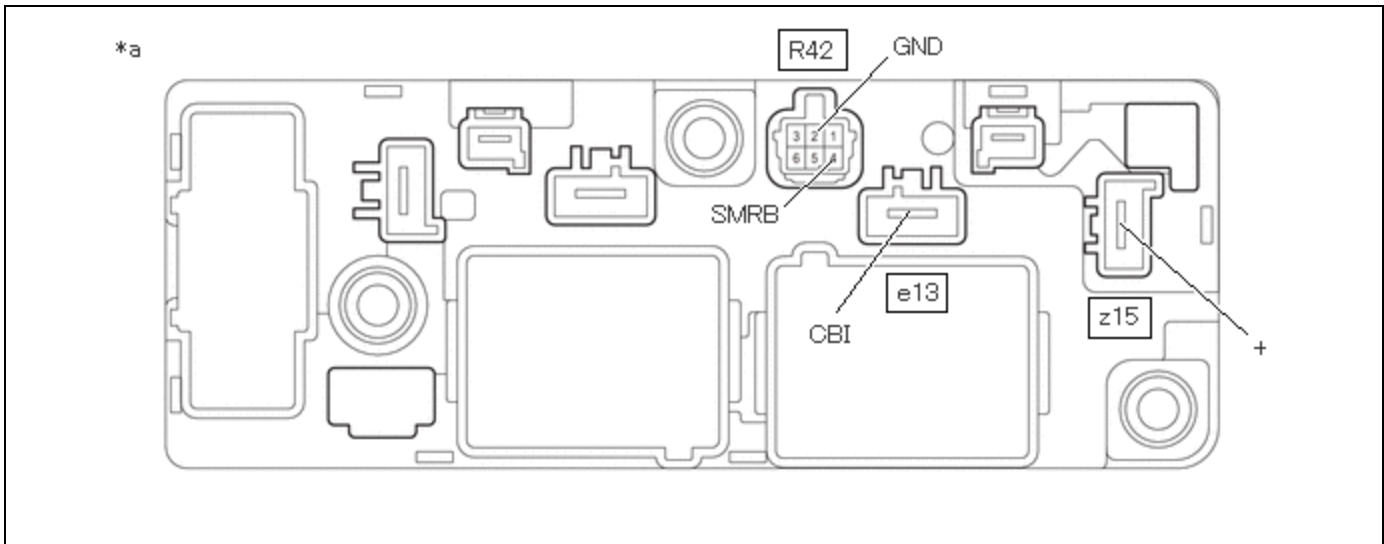
INSPECTION

PROCEDURE

1. INSPECT NO. 1 TRACTION BATTERY DEVICE BOX

(a) Inspect SMRB:

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



*a	Component without harness connected (No. 1 Traction Battery Device Box)	-	-
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Standard Resistance:



[Click Location & Routing\(e13,z15\)](#)

[Click Connector\(e13\)](#)

[Click Connector\(z15\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
e13-1 (CBI) - z15-1 (+)	Auxiliary battery voltage not applied between terminals R42-4 (SMRB) and R42-2 (GND)	10 kΩ or higher	kΩ
e13-1 (CBI) - z15-1 (+)	Auxiliary battery voltage applied between terminals R42-4 (SMRB) and R42-2 (GND)	Below 1 Ω	Ω

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

Standard Resistance:



[Click Location & Routing\(R42\)](#)

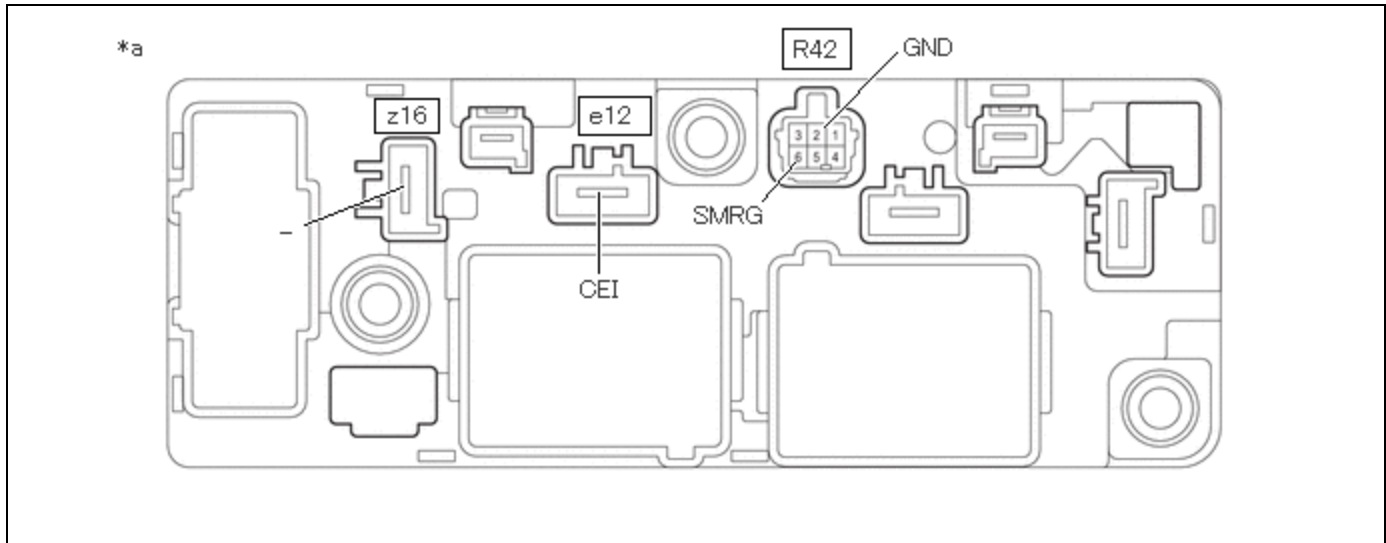
[Click Connector\(R42\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
R42-4 (SMRB) - R42-2 (GND)	-40 to 80°C (-40 to 176°F)	20.6 to 40.8 Ω	Ω

If the result is not as specified, replace the No. 1 traction battery device box.

(b) Inspect SMRG:

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



*a	Component without harness connected (No. 1 Traction Battery Device Box)	-	-
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Standard Resistance:



[Click Location & Routing\(e12,z16\)](#)

[Click Connector\(e12\)](#)

[Click Connector\(z16\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
e12-1 (CEI) - z16-1 (-)	Auxiliary battery voltage not applied between terminals R42-6 (SMRG) and R42-2 (GND)	10 kΩ or higher	kΩ
e12-1 (CEI) - z16-1 (-)	Auxiliary battery voltage applied between terminals R42-6 (SMRG) and R42-2 (GND)	Below 1 Ω	Ω

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

Standard Resistance:



[Click Location & Routing\(R42\)](#)

[Click Connector\(R42\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
R42-6 (SMRG) - R42-2 (GND)	-40 to 80°C (-40 to 176°F)	20.6 to 40.8 Ω	Ω

If the result is not as specified, replace the No. 1 traction battery device box.

