

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000002B7BF
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HYBRID / BATTERY CONTROL: HV RELAY ASSEMBLY (for PHEV Model): INSPECTION; 2023 - 2024 MY Prius Prime [03/2023 -]		

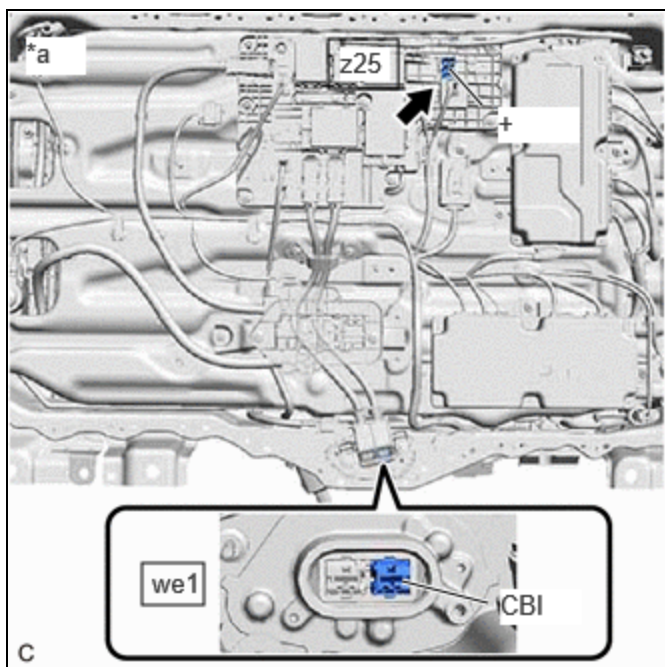
INSPECTION

PROCEDURE

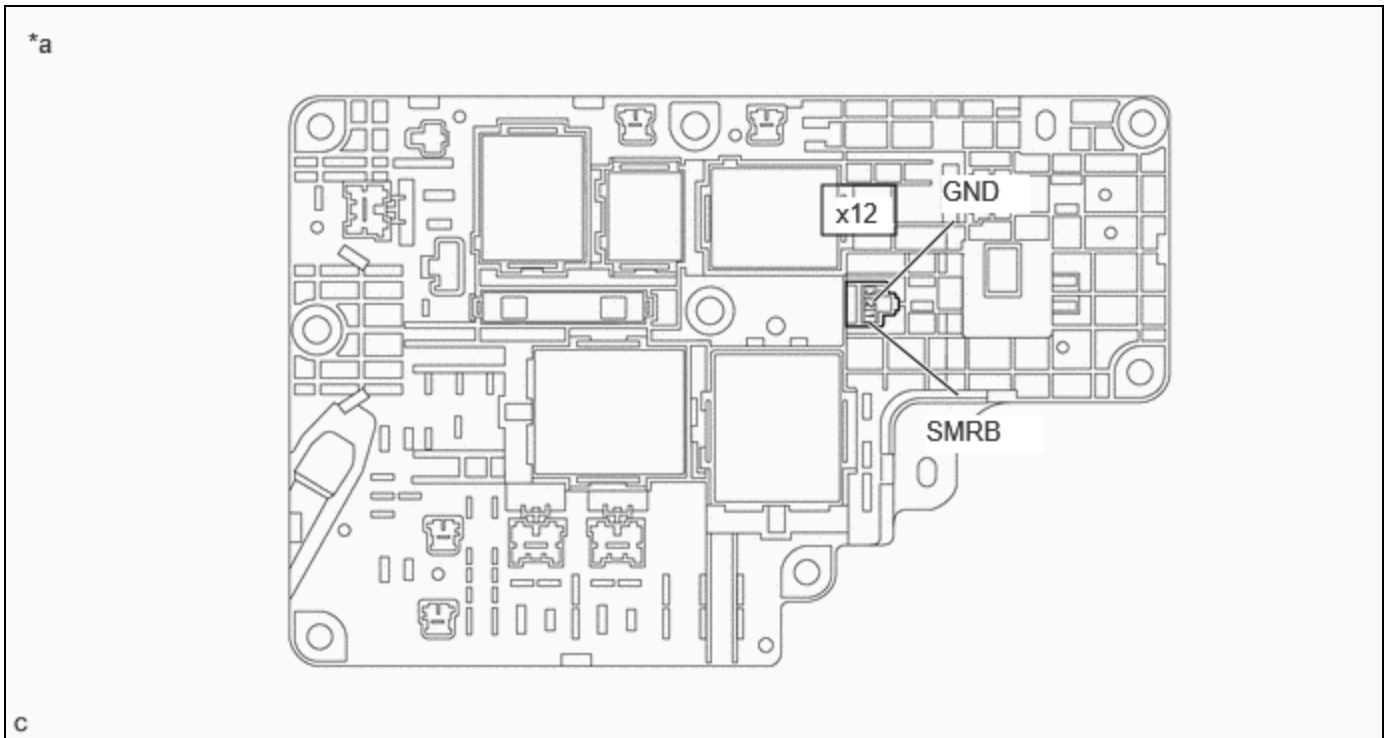
1. INSPECT NO. 1 TRACTION BATTERY DEVICE BOX ASSEMBLY

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



[Click Location & Routing\(z25,we1\)](#)

[Click Connector\(z25\)](#)

[Click Connector\(we1\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
z25-1(+) - we1-2(CBI)	Auxiliary battery voltage not applied between terminals o16-3(SMRB) and o16-2(GND)	10 kΩ or higher
z25-1(+) - we1-2(CBI)	Auxiliary battery voltage applied between terminals o16-3(SMRB) and o16-2(GND)	Below 1 Ω

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

Standard Resistance:



[Click Location & Routing\(x12\)](#)

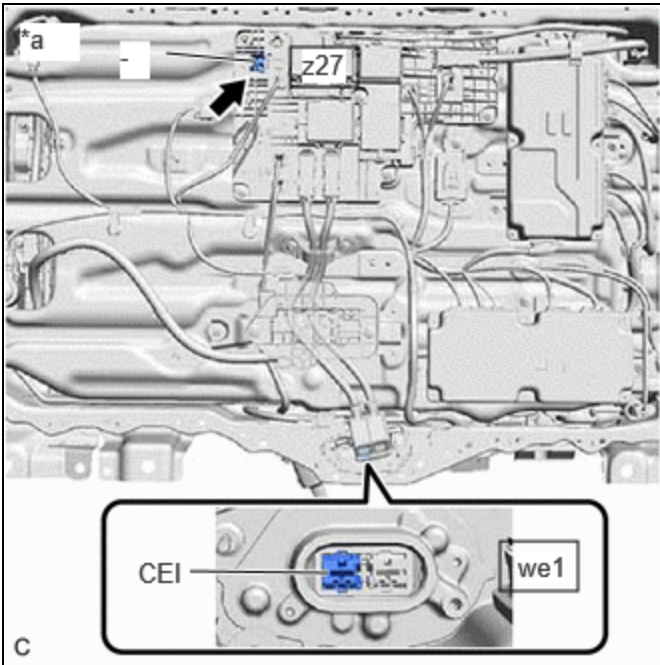
[Click Connector\(x12\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
x12-1(SMRB) - x12-2(GND)	-40 to 80°C	20.6 to 40.8 Ω
x12-1(SMRB) - x12-2(GND)	-40 to 176°F	20.6 to 40.8 Ω

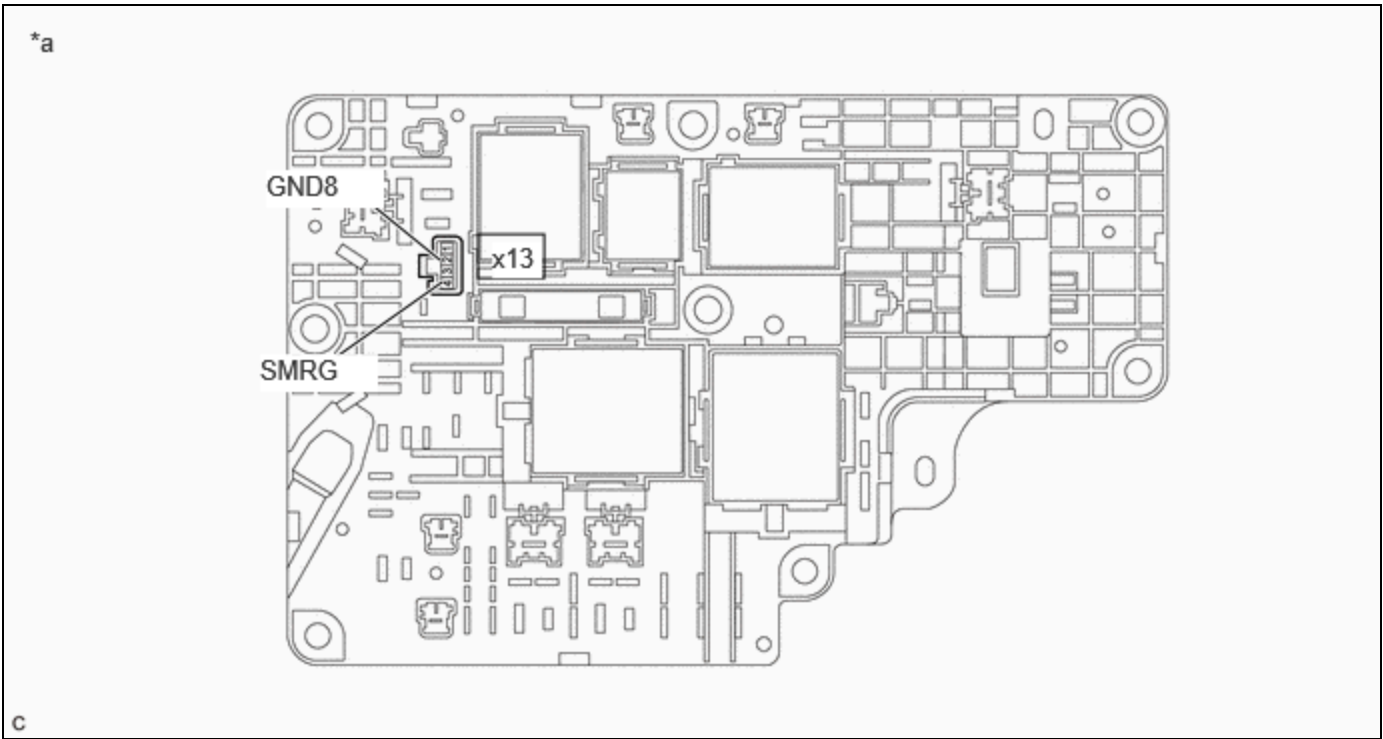
If the result is not as specified, replace the No. 1 traction battery device box assembly.

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



[Click Location & Routing\(z25,R4\)](#)

[Click Connector\(z25\)](#)

[Click Connector\(R4\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
z25-1(-) - R4-2(CEI)	Auxiliary battery voltage not applied between terminals o17-1(SMRG) and o17-5(GND8)	10 kΩ or higher
z25-1(-) - R4-2(CEI)	Auxiliary battery voltage applied between terminals o17-1(SMRG) and o17-5(GND8)	Below 1 Ω

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

Standard Resistance:



[Click Location & Routing\(x13\)](#)

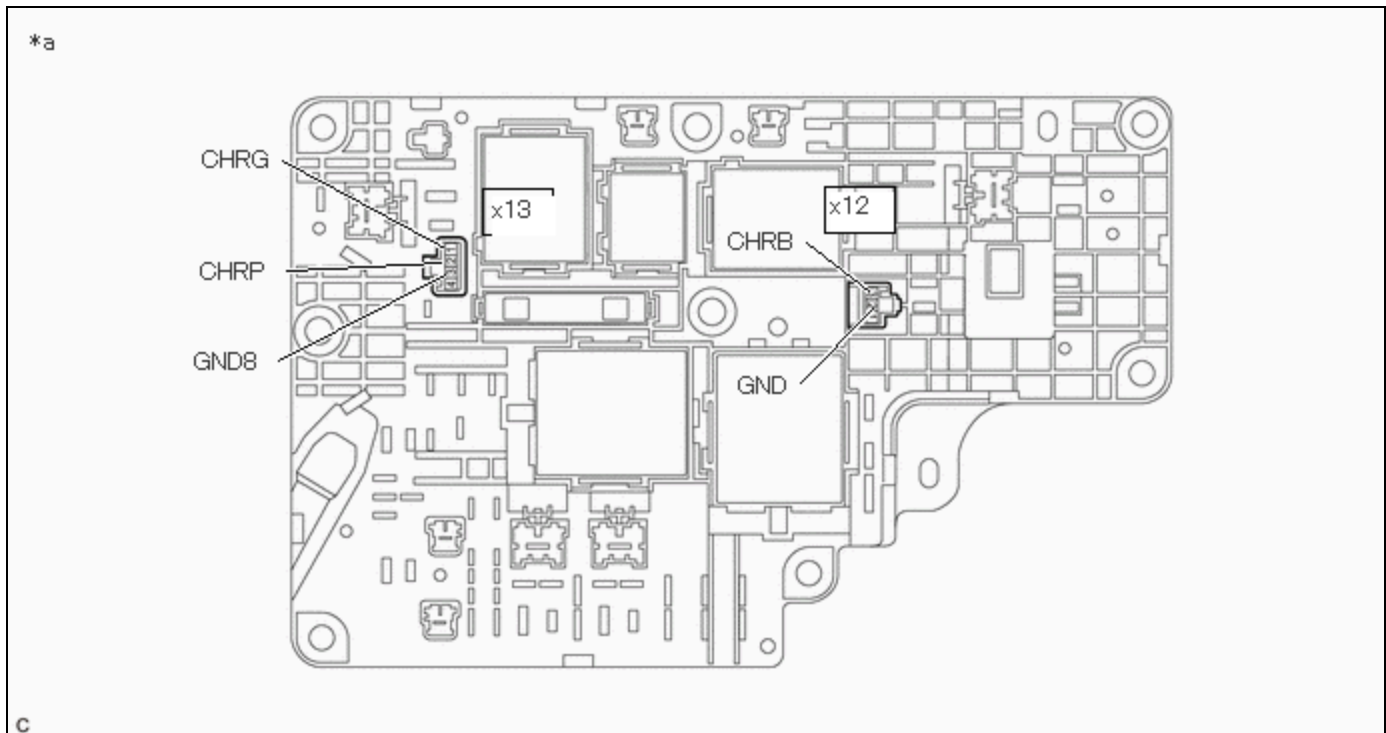
[Click Connector\(x13\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
x13-4(SMRB) - x13-3(GND1)	-40 to 80°C	20.6 to 40.8 Ω
x13-4(SMRB) - x13-3(GND1)	-40 to 176°F	20.6 to 40.8 Ω

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

(c) Inspect CHRB, CHR P,CHRG:

(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\(x12,x13\)](#)

[Click Connector\(x12\)](#)

[Click Connector\(x13\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
x12-3 (CHRB) - x12-2 (GND)	x13-1 (CHRG) - x13-3 (GND8)	20.6 to 40.8 Ω
x13-2 (CHRP) - x13-3 (GND8)	x13-1 (CHRG) - x13-3 (GND8)	128 to 312 Ω
x13-1 (CHRG) - x13-3 (GND8)	x13-1 (CHRG) - x13-3 (GND8)	20.6 to 40.8 Ω

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

