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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: SPECIFICATIONS: HYBRID / BATTERY CONTROL: SERVICE DATA; 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

SERVICE DATA

Reserve Tank Cap (for Inverter)

ITEM	SPECIFIED CONDITION
Standard Value (for Brand-new Cap)	94 to 122 kPa (1.0 to 1.2 kgf/cm2, 13.6 to 18 psi)
Minimum Standard Value (for Used Cap)	94 kPa (1.0 kgf/cm2, 13.6 psi)

Charge Inlet (for PHEV Model for Type A)

Inlet AC Charger Cable Resistance	s1-1 (ACIH) - ss1-1 (ACIH)	Below 1 Ω
	s1-2 (ACIC) - ss1-2 (ACIC)	
	s1-3 (PISW) - Rs1-1 (PISW)	
	s1-4 (CPLT) - Rs1-6 (CPLT)	
	s1-5 (GND) - Earth terminal	
	s1-3 (PISW) - s1-5 (GND)	
Cable EV Charger Lock Assembly	Auxiliary Battery positive (+) → R76-10 (CBMP) and R76-7 (+B) Auxiliary Battery negative (-) → R76-1 (GND)	Locks
	Auxiliary Battery positive (+) → R76-4 (CBMN) and R76-7 (+B) Auxiliary Battery negative (-) → R76-1 (GND)	Unlocks
	R76-9 (CBSW) - R76-1 (GND)	Below 1 Ω (Locks)
		10 kΩ or higher (Unlocks)
	R76-12(E) - R76-1(GND)	Below 1 Ω (Auxiliary battery voltage not applied between terminals R76-10 (CBMP) - R76-1 (GND))
R76-6(B) - R76-1(GND)	Below 1 Ω (Auxiliary battery voltage applied between terminals R76-4 (CBMN) - R76-1 (GND))	

Charge Cable (for PHEV Model)

Electric Vehicle Charger Cable Assembly	3 (PISW) - 5 (GND)	Below 1 V (Latch release button (PISW) pressed)
		Below 1 V

		(Latch release button (PISW) not pressed)
	4 (CPLT) - 5 (GND)	11.4 to 12.6 V (Power indicator illuminated)
		11.4 to 12.6 V (Error warning indicator not illuminated)
	3 (PISW) - 5 (GND)	430 to 530 Ω (Latch release button (PISW) pressed)
		135 to 165 Ω (Latch release button (PISW) not pressed)
	1 - 1'	Below 1 Ω
	2 - 2'	Below 1 Ω
	3 - 3'	Below 1 Ω
	4 - 5	130 to 660 Ω

Charge Indicator (for PHEV Model)

EV Charger Lid Indicator	Auxiliary Battery positive (+) → 1 (PIL) Auxiliary Battery negative (-) → 3 (GND)	Illuminates
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Relay

Item	Tester Connection	Specified Condition
IGCT relay (IGCT) Resistance	3 - 5	10 k Ω or higher (Auxiliary battery voltage not applied between terminals 1 and 2)
		Below 1 Ω (Auxiliary battery voltage applied between terminals 1 and 2)

No. 1 Traction Battery Device Box (for HEV Model)

SMRB Resistance	e13-1 (CBI) - z15-1 (+)	10 k Ω or higher (Auxiliary battery voltage not applied between terminals R42-4 (SMRB) and R42-2 (GND))
		Below 1 Ω (Auxiliary battery voltage applied between terminals R42-4 (SMRB) and R42-2 (GND))
	R42-4 (SMRB) - R42-2 (GND)	20.6 to 40.8 Ω at -40 to 80°C (-40 to 176°F)
SMRG Resistance	e12-1 (CEI) - z16-1 (-)	10 k Ω or higher (Auxiliary battery voltage not applied between terminals R42-6 (SMRG) and R42-2 (GND))
		Below 1 Ω (Auxiliary battery voltage applied between terminals R42-6 (SMRG) and R42-2 (GND))
	R42-6 (SMRG) - R42-2 (GND)	20.6 to 40.8 Ω at -40 to 80°C (-40 to 176°F)

No. 1 Traction Battery Device Box (for PHEV Model)

SMRB Resistance	z25-1(+) - we1-2(CBI)	10 k Ω or higher Auxiliary battery voltage not applied between terminals x12-1(SMRB) and x12-2(GND)
		Below 1 Ω Auxiliary battery voltage applied between terminals x12-1(SMRB) and x12-2(GND)
	x12-1(SMRB) - x12-2(GND)	20.6 to 40.8 Ω at -40 to 80°C (-40 to 176°F)
SMRG Resistance	z27-1(-) - we1-2(CEI)	10 k Ω or higher Auxiliary battery voltage not applied between terminals x13-4(SMRG) and x13-3(GND8)
		Below 1 Ω Auxiliary battery voltage applied between terminals x13-4(SMRG) and x13-3(GND8)
	x13-4 (SMRG) - x13-3 (GND8)	20.6 to 40.8 Ω at -40 to 80°C (-40 to 176°F)
CHRB Resistance	x12-3 (CHRB) - x12-2 (GND)	20.6 to 40.8 Ω at -40 to 80°C (-40 to 176°F)
CHRG Resistance	x13-1 (CHRG) - x13-3 (GND8)	20.6 to 40.8 Ω at -40 to 80°C (-40 to 176°F)
CHRP Resistance	x13-2 (CHRP) - x13-3 (GND8)	128 to 312 Ω at -40 to 80°C (-40 to 176°F)

Heater Relay (for PHEV Model)

x14-1(BH0) -x14-3(HR0)	Auxiliary battery voltage not applied between terminals x14-11(BHR) and x14-8(BHRG)	10 k Ω or higher
	Auxiliary battery voltage applied between terminals x14-11(BHR) and x14-8(BHRG)	Below 1 Ω
x14-6(BH1) -x14-4(HR1)	Auxiliary battery voltage not applied between terminals x14-11(BHR) and x14-8(BHRG)	10 k Ω or higher
	Auxiliary battery voltage applied between terminals x14-11(BHR) and x14-8(BHRG)	Below 1 Ω

Combination Switch (for HEV Model)

EV Drive Mode Switch (Electric Parking Brake Switch Assembly) Resistance	K22-4 (S) - K22-7 (E)	Below 50 Ω EV drive mode switch (electric parking brake switch assembly) being pushed and held
		10 k Ω or higher EV drive mode switch (electric parking brake switch assembly) not pushed

Combination Switch (for PHEV Model)

EV/HV AUTO Mode Switch (Electric Parking Brake Switch Assembly) Resistance	K22-3 (S) - K22-7 (E)	Below 50 Ω EV/HV AUTO mode switch (electric parking brake switch assembly) being pushed and held
		10 kΩ or higher EV/HV AUTO mode switch (electric parking brake switch assembly) not pushed
HV EV HOLD CHG Mode Switch (Electric Parking Brake Switch Assembly) Resistance	K22-6 (ECU) - K22-7 (E)	Below 50 Ω HV EV HOLD CHG mode switch (electric parking brake switch assembly) being pushed and held
		10 kΩ or higher HV EV HOLD CHG mode switch (electric parking brake switch assembly) not pushed

Service Plug Grip

Service Plug Grip	-	Below 1 Ω
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