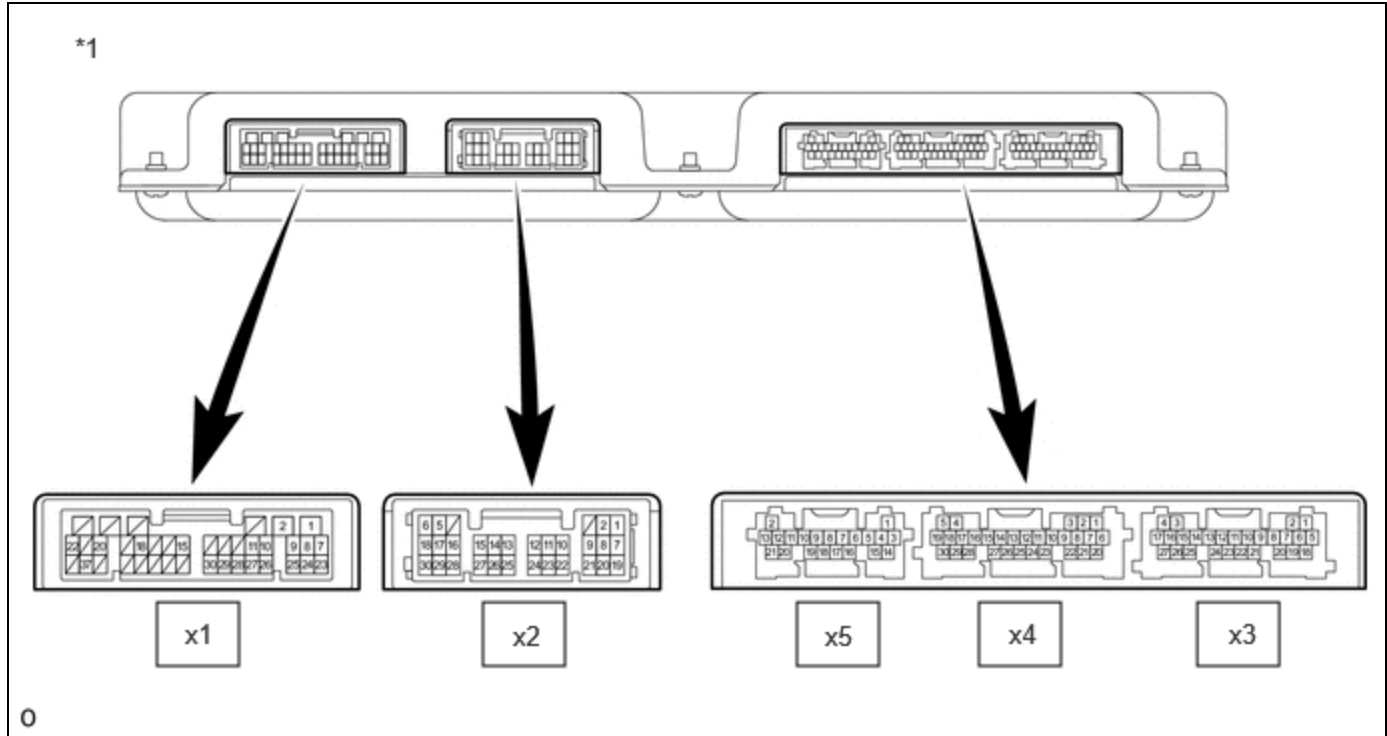


Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002BHVN
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HYBRID / BATTERY CONTROL: HYBRID BATTERY SYSTEM (for PHEV Model): TERMINALS OF ECU; 2023 - 2024 MY Prius Prime [03/2023 -]		

TERMINALS OF ECU



*1	Battery ECU Assembly	-	-
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Battery ECU Assembly

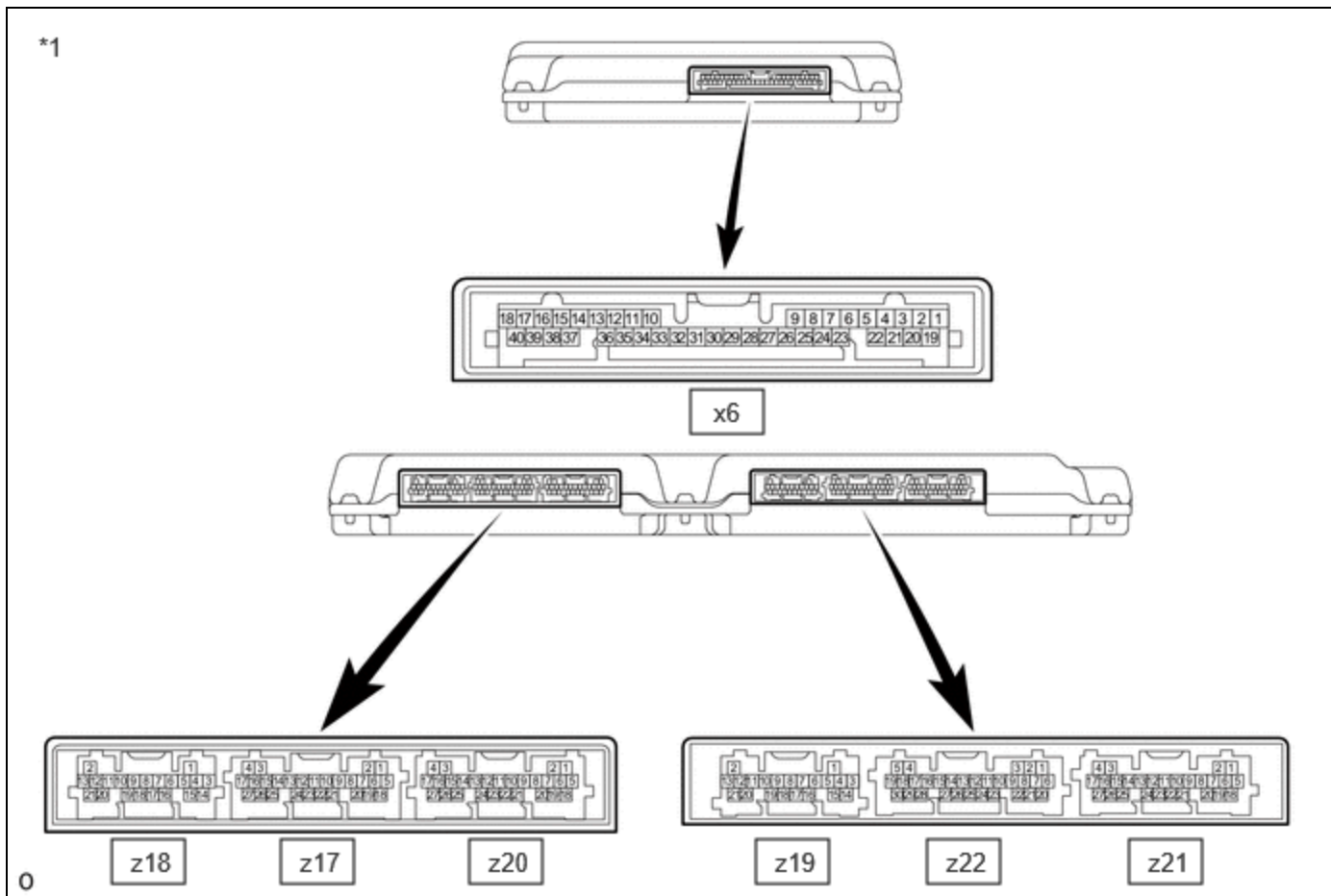
CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
x1	1	VG0	Power source for battery voltage sensor 0
	2	VG1	Power source for battery voltage sensor 1
	3	-	-
	4	-	-
	5	-	-
	6	-	-
	7	VBS0	Stack selection signal 0
	8	VBS1	Stack selection signal 1
	9	VBS2	Stack selection signal 2
	10	VBSG	Ground for shield
	11	VDEN	Voltage sensor circuit control signal
	12	-	-
	13	-	-

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	14	-	-
	15	GGB0	Surge protection circuit
	16	-	-
	17	-	-
	18	VLKB	Isolation sensor signal
	19	-	-
	20	VBB0	Stack voltage sensor
	21	-	-
	22	GBB0	Stack voltage sensor ground
	23	GDV0	Battery voltage sensor 0 ground
	24	GDV1	Battery voltage sensor 1 ground
	25	VHS0	Isolation sensor signal
	26	VHS1	Relay drive A Signal
	27	SCOH	ECU - battery voltage sensor communication line
	28	SCOL	ECU - battery voltage sensor communication line
	29	SCIH	ECU - battery voltage sensor communication line
	30	SCIL	ECU - battery voltage sensor communication line
	31	-	-
	32	-	-
	33	-	-
	34	-	-
	35	-	-
	36	-	-
	37	VLKG	Isolation sensor ground
	38	-	-
x2	1	TRF0	Air conditioning thermistor assembly (Duct Inlet 1)
	2	GRF0	Air conditioning thermistor assembly (Duct Inlet 1) ground
	3	-	-
	4	-	-
	5	-	-
	6	-	-
	7	GRF1	Air conditioning thermistor assembly (Duct Outlet 1) ground
	8	TRF1	Air conditioning thermistor assembly (Duct Outlet 1)
	9	-	-
	10	-	-

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	11	-	-
	12	-	-
	13	-	-
	14	-	-
	15	-	-
	16	-	-
	17	-	-
	18	-	-
	19	-	-
	20	-	-
	21	-	-
	22	-	-
	23	-	-
	24	-	-
	25	-	-
	26	-	-
	27	-	-
	28	-	-
	29	-	-
	30	-	-
x5	1	-	-
	2	-	-
	3	TBH0	HV battery heater temperature sensor 0
	4	GBH0	HV battery heater temperature sensor 0 ground
	5	TBH1	HV battery heater temperature sensor 1
	6	GBH1	HV battery heater temperature sensor 1 ground
	7	-	-
	8	-	-
	9	-	-
	10	-	-
	11	-	-
	12	-	-
	13	-	-
	14	-	-
	15	-	-

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	16	-	-
	17	-	-
	18	-	-
	19	-	-
	20	-	-
x4	21	-	-
	1	-	-
	2	-	-
	3	-	-
	4	VIB	Power source for battery current sensor
	5	VAS0	Power source for air conditioning pressure sensor
	6	CHRG	CHRG relay operation signal
	7	CHRP	CHRP relay operation signal
	8	CHRB	CHRB relay operation signal
	9	-	-
	10	-	-
	11	-	-
	12	BHRB	HV battery heater relay signal
	13	BHRG	HV battery heater relay ground
	14	GIB	Battery current sensor power source ground
	15	IBL	Battery current sensor signal (IBL)
	16	IB0	Battery current sensor signal (IB0)
	17	IB1	Battery current sensor signal (IB1)
	18	GAS0	Air conditioning pressure sensor ground
	19	AS0	Air conditioning pressure sensor signal
	20	SMA0	Magnet valve signal
	21	SMB0	Magnet valve signal
	22	SMC0	Magnet valve signal
	23	SMD0	Magnet valve signal
	24	-	-
	25	-	-
	26	-	-
	27	-	-
	28	-	-
29	-	-	

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	30	-	-
x3	1	AM	Constant power source
	2	-	-
	3	WCEN	Charging relay operation signal
	4	-	-
	5	IGCT	Power source
	6	-	-
	7	CA1H	CAN communication line (battery local bus)
	8	CA1L	CAN communication line (battery local bus)
	9	-	-
	10	C2HB	CAN communication line (powertrain local bus)
	11	C2LB	CAN communication line (powertrain local bus)
	12	CA2H	CAN communication line (powertrain bus)
	13	CA2L	CAN communication line (powertrain bus)
	14	-	-
	15	-	-
	16	-	-
	17	-	-
	18	IGC2	Power source
	19	-	-
	20	-	-
	21	-	-
	22	-	-
	23	-	-
	24	-	-
	25	GND	Ground
	26	GND1	Ground
	27	GND2	Ground



*1	Battery Voltage Sensor	-	-
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Battery Voltage Sensor

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
x6	1	VLKB	Isolation sensor signal
	2	-	-
	3	-	-
	4	-	-
	5	GBB0	Surge protection circuit
	6	-	-
	7	-	-
	8	-	-
	9	-	-
	10	SCIH	battery voltage sensor - battery ECU communication line
	11	SCOH	battery voltage sensor - battery ECU communication line
	12	VHS0	Isolation sensor signal
	13	VBS2	Stack selection signal 2
	14	VBS1	Stack selection signal 1
	15	VBSG	Ground for shield

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	16	GDV0	Ground for battery voltage sensor 0
	17	-	-
	18	VG0	Power source for battery voltage sensor 0
	19	-	-
	20	-	-
	21	VBB0	Stack voltage sensor
	22	-	-
	23	-	-
	24	-	-
	25	VLKG	Isolation sensor ground
	26	-	-
	27	-	-
	28	-	-
	29	GGB0	Surge protection circuit
	30	-	-
	31	-	-
	32	-	-
	33	SCIL	battery voltage sensor - battery ECU communication line
	34	SCOL	battery voltage sensor - battery ECU communication line
	35	VHS1	Relay drive A Signal
	36	VDEN	Voltage sensor circuit control signal
	37	VBS0	Stack selection signal 0
	38	GDV1	Battery voltage sensor 1 ground
	39	-	-
	40	VG1	Power source for battery voltage sensor 1
z18	1	VA3	HV Battery Cell Voltage
	2	-	-
	3	VA4	HV Battery Cell Voltage
	4	VA2	HV Battery Cell Voltage
	5	VA1	HV Battery Cell Voltage
	6	GA0	HV Battery Cell Voltage
	7	TB4	HV battery temperature sensor 4
	8	GB4	HV battery temperature sensor 4 ground
	9	TB3	HV battery temperature sensor 3
	10	GB3	HV battery temperature sensor 3 ground

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION	
	11	TB2	HV battery temperature sensor 2	
	12	GB2	HV battery temperature sensor 2 ground	
	13	-	-	
	14	-	-	
	15	-	-	
	16	-	-	
	17	-	-	
	18	GB1	HV battery temperature sensor 1 ground	
	19	TB1	HV battery temperature sensor 1	
	20	GB0	HV battery temperature sensor 0 ground	
	21	TB0	HV battery temperature sensor 0	
	z17	1	VA21	HV Battery Cell Voltage
		2	VA20	HV Battery Cell Voltage
		3	VA9	HV Battery Cell Voltage
		4	VA8	HV Battery Cell Voltage
		5	VA23	HV Battery Cell Voltage
		6	VA22	HV Battery Cell Voltage
		7	VA19	HV Battery Cell Voltage
		8	VA17	HV Battery Cell Voltage
		9	VA16	HV Battery Cell Voltage
10		VA15	HV Battery Cell Voltage	
11		VA14	HV Battery Cell Voltage	
12		GA1	HV Battery Cell Voltage	
13		VA12	HV Battery Cell Voltage	
14		VA11	HV Battery Cell Voltage	
15		VA10	HV Battery Cell Voltage	
16		VA7	HV Battery Cell Voltage	
17		VA6	HV Battery Cell Voltage	
18		VA24	HV Battery Cell Voltage	
19		-	-	
20		VA18	HV Battery Cell Voltage	
21		-	-	
22		-	-	
23		VA13	HV Battery Cell Voltage	
24		-	-	

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	25	-	-
	26	-	-
	27	VA5	HV Battery Cell Voltage
z20	1	VA32	HV Battery Cell Voltage
	2	VA31	HV Battery Cell Voltage
	3	GB5	HV battery temperature sensor 5 ground
	4	TB5	HV battery temperature sensor 5
	5	VA34	HV Battery Cell Voltage
	6	VA33	HV Battery Cell Voltage
	7	VA30	HV Battery Cell Voltage
	8	VA28	HV Battery Cell Voltage
	9	VA27	HV Battery Cell Voltage
	10	VA26	HV Battery Cell Voltage
	11	VA25	HV Battery Cell Voltage
	12	GA2	HV Battery Cell Voltage
	13	TB9	HV battery temperature sensor 9
	14	GB9	HV battery temperature sensor 9 ground
	15	TB7	HV battery temperature sensor 7
	16	GB7	HV battery temperature sensor 7 ground
	17	TB6	HV battery temperature sensor 6
	18	VA35	HV Battery Cell Voltage
	19	-	-
	20	VA29	HV Battery Cell Voltage
	21	-	-
	22	-	-
	23	-	-
	24	-	-
	25	TB8	HV battery temperature sensor 8
	26	GB8	HV battery temperature sensor 8 ground
	27	GB6	HV battery temperature sensor 6 ground
z19	1	VA47	HV Battery Cell Voltage
	2	VA37	HV Battery Cell Voltage
	3	VA48	HV Battery Cell Voltage
	4	VA46	HV Battery Cell Voltage
	5	VA45	HV Battery Cell Voltage

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	6	VA44	HV Battery Cell Voltage
	7	VA43	HV Battery Cell Voltage
	8	VA42	HV Battery Cell Voltage
	9	VA41	HV Battery Cell Voltage
	10	VA40	HV Battery Cell Voltage
	11	VA39	HV Battery Cell Voltage
	12	VA38	HV Battery Cell Voltage
	13	GA3	HV Battery Cell Voltage
	14	-	-
	15	-	-
	16	-	-
	17	-	-
	18	-	-
	19	-	-
	20	-	-
	21	VA36	HV Battery Cell Voltage
z22	1	VA55	HV Battery Cell Voltage
	2	VA53	HV Battery Cell Voltage
	3	VA51	HV Battery Cell Voltage
	4	-	-
	5	TB11	HV battery temperature sensor 11
	6	VA56	HV Battery Cell Voltage
	7	VA54	HV Battery Cell Voltage
	8	VA52	HV Battery Cell Voltage
	9	VA50	HV Battery Cell Voltage
	10	VA49	HV Battery Cell Voltage
	11	GA4	HV Battery Cell Voltage
	12	GB14	HV battery temperature sensor 14 ground
	13	TB14	HV battery temperature sensor 14
	14	GB13	HV battery temperature sensor 13 ground
	15	TB13	HV battery temperature sensor 13
	16	GB12	HV battery temperature sensor 12 ground
	17	TB12	HV battery temperature sensor 12
	18	GB11	HV battery temperature sensor 11 ground
	19	TB10	HV battery temperature sensor 10

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	20	-	-
	21	-	-
	22	-	-
	23	-	-
	24	-	-
	25	-	-
	26	-	-
	27	-	-
	28	-	-
	29	-	-
	30	GB10	HV battery temperature sensor 10 ground
z21	1	VA70	HV Battery Cell Voltage
	2	VA69	HV Battery Cell Voltage
	3	VA60	HV Battery Cell Voltage
	4	VA59	HV Battery Cell Voltage
	5	VA72	HV Battery Cell Voltage
	6	VA71	HV Battery Cell Voltage
	7	VA68	HV Battery Cell Voltage
	8	VA67	HV Battery Cell Voltage
	9	VA66	HV Battery Cell Voltage
	10	VA65	HV Battery Cell Voltage
	11	VA64	HV Battery Cell Voltage
	12	VA63	HV Battery Cell Voltage
	13	VA62	HV Battery Cell Voltage
	14	VA61	HV Battery Cell Voltage
	15	GA5	HV Battery Cell Voltage
	16	VA58	HV Battery Cell Voltage
	17	VA57	HV Battery Cell Voltage
	18	-	-
	19	-	-
	20	-	-
	21	-	-
	22	-	-
	23	-	-
	24	-	-

CONNECTOR CODE	TERMINAL NO.	SYMBOL	TERMINAL DESCRIPTION
	25	-	-
	26	-	-
	27	-	-

