

Vehicle Diagnostic Report

2ZRFXE

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Diagnostic Trouble Code Report Hybrid Control(1 of 1)

Code	Description	Current	Pending	History	Permanent	Summary	Freeze Frame
P0A7F	Hybrid Battery Pack Deterioration	X	X	X		Icon B	Y

Freeze Frame Data Report P0A7F(1 of 3)

Parameter	Value					Unit
	-3	-2	-1	0	1	
Engine Coolant Temp	90	90	90	90	90	C
Engine Revolution	992	992	992	992	992	rpm
Vehicle Spd	0	0	0	0	0	MPH
Engine Run Time	625	625	626	626	626	s
+B	14.82	14.82	14.82	14.82	14.82	V
Accel Pedal Pos #1	15.6	15.6	15.6	15.6	15.6	%
Accel Pedal Pos #2	32.1	32.1	32.1	32.1	32.1	%
Ambient Temperature	11	11	11	11	11	C
Intake Air Temperature	52	52	52	52	52	C
DTC Clear Warm Up	4	4	4	4	4	
DTC Clear Run Distance	20	20	20	20	20	mile
DTC Clear Min	145	145	145	145	145	min
MAP	5	5	5	5	5	psi(abs)
Atmosphere Pressure	14	14	14	14	14	psi(abs)
Motor(MG2) Revolution	2	0	0	0	0	rpm
Motor(MG2) Torq	-5.38	-5.13	-5.00	-5.00	-5.00	Nm
M(MG2) Trq Exec Val	-4.50	-4.50	-3.88	-3.88	-3.88	Nm
Generator(MG1) Rev	3595	3592	3567	3585	3590	rpm
Generator(MG1) Torq	-5.50	-5.25	-4.88	-5.00	-5.00	Nm
G(MG1) Trq Exec Val	-4.00	-4.00	-4.00	-4.38	-4.13	Nm
Regenerative Brake Torq	0.0	0.0	0.0	0.0	0.0	Nm
Rqst Regen Brake Torq	0.0	0.0	0.0	0.0	0.0	Nm
Inverter Temp-(MG1)	37	37	37	37	37	C
Inverter Temp-(MG2)	39	39	39	39	39	C
Motor Temp No2	55	55	55	55	55	C
Motor Temp No1	45	45	45	45	45	C
Accelerator Degree	0.0	0.0	0.0	0.0	0.0	%
Request Power	1510	1410	1410	1410	1410	W
Target Engine Rev	1000	1000	1000	1000	1000	rpm
Engine Rev (Sensor)	999	999	994	995	996	rpm
State of Charge (All Bat)	55.6	55.6	56.0	56.0	56.0	%
Master Cylinder Ctrl Trq	0.0	0.0	0.0	0.0	0.0	Nm
Power Resource VB	232.0	233.0	231.0	233.0	233.0	V
Power Resource IB	-5.35	-4.86	-3.88	-4.37	-4.86	A
VL-Voltage before Boosting	232	232	232	232	232	V
VH-Voltage after Boosting	233	233	233	233	233	V
Boost Ratio	0.0	0.0	0.0	0.0	0.0	%
Drive Condition ID	3	3	3	3	3	
Shift Sensor Main	2.55	2.55	2.55	2.55	2.53	V
Shift Sensor Sub	2.53	2.53	2.53	2.53	2.53	V
Shift Sensor Select Main	1.48	1.48	1.48	1.48	1.48	V
Shift Sensor Select Sub	1.40	1.40	1.40	1.40	1.40	V
Shift Sensor Shift Pos	P	P	P	P	P	
Crank Position	48	-57	20	-1	-84	deg (CA)
A/C Consumption Pwr	0	0	0	0	0	W

Freeze Frame Data Report
POA7F(2 of 3)

Parameter	Value						Unit
	-3	-2	-1	0	1		
Short Wave Highest Val	4.98	4.98	4.98	4.98	4.98	4.98	V
MG1 Control Mode	2	2	2	2	2	2	
MG1 Carrier Frequency	5.00	5.00	5.00	5.00	5.00	5.00	kHz
MG2 Control Mode	0	0	0	0	0	0	
MG2 Carrier Frequency	2.50	2.50	2.50	2.50	2.50	2.50	kHz
Num of Current Code	0	0	0	0	0	1	
Num of History Code	0	0	0	0	0	1	
Calculate Load	36.8	36.8	35.2	35.2	35.2	35.2	%
Throttle Position	17.6	17.6	17.2	17.2	17.2	17.2	%
DCDC Cnv Tar Pulse Duty	71.4	71.4	71.4	71.4	71.4	71.4	%
Inverter Coolant Water Temperature	39	39	39	39	39	39	C
Cooling Fan 0	0.0	0.0	0.0	0.0	0.0	0.0	%
Cooling Fan Relay	ON	ON	ON	ON	ON	ON	
Inverter W/P Revolution	3500	3500	3500	3500	3500	3500	rpm
Prohibit DC/DC conv sig	OFF	OFF	OFF	OFF	OFF	OFF	
EV Request	OFF	OFF	OFF	OFF	OFF	OFF	
Request Driving Force	0.0	0.0	0.0	0.0	0.0	0.0	N
Primary DF Rqst on CCS	Pedal	Pedal	Pedal	Pedal	Pedal	Pedal	
Operator Override	Notctrl	Notctrl	Notctrl	Notctrl	Notctrl	Notctrl	
Accelerator Info for DSS	OFF	OFF	OFF	OFF	OFF	OFF	
Gradient of Road Surface	0.3	0.3	0.3	0.3	0.3	0.3	m/s2
TRC OFF Switch	OFF	OFF	OFF	OFF	OFF	OFF	
IPA Creep up Rate	1.0	1.0	1.0	1.0	1.0	1.0	
IPA Control Signal	OFF	OFF	OFF	OFF	OFF	OFF	
Permit Start by Immobiliser	Norml	Norml	Norml	Norml	Norml	Norml	
Immobiliser Communication	ON	ON	ON	ON	ON	ON	
Starter Switch	OFF	OFF	OFF	OFF	OFF	OFF	
Inv-T (MG1) afr IG-ON	33	33	33	33	33	33	C
Inv-T (MG2) afr IG-ON	33	33	33	33	33	33	C
Mtr-T (MG2) afr IG-ON	48	48	48	48	48	48	C
Conv-Tmp after IG-ON	33	33	33	33	33	33	C
SOC after IG-ON	41.5	41.5	41.5	41.5	41.5	41.5	%
Inv-Temp (MG1) Max	45	45	45	45	45	45	C
Inv-Temp (MG2) Max	41	41	41	41	41	41	C
Mtr-Temp (MG2) Max	48	48	48	48	48	48	C
Converter Temp Max	51	51	51	51	51	51	C
Status of Charge Max	57.0	57.0	57.0	57.0	57.0	57.0	%
Status of Charge Min	39.0	39.0	39.0	39.0	39.0	39.0	%
Stop Light Switch	OFF	OFF	OFF	OFF	OFF	OFF	
Auxiliary Batt Temperature	13	13	13	13	13	13	C
Collision Signal (Airbag)	OFF	OFF	OFF	OFF	OFF	OFF	
TC Terminal	OFF	OFF	OFF	OFF	OFF	OFF	
Inter Lock Switch	OFF	OFF	OFF	OFF	OFF	OFF	
EV Switch	OFF	OFF	OFF	OFF	OFF	OFF	
Back Up Lamp Relay	OFF	OFF	OFF	OFF	OFF	OFF	
ECO Mode	ON	ON	ON	ON	ON	OFF	
Generate Torque	74.3	74.3	74.3	74.3	74.3	79.0	Nm
Prohibit Charge for P Pos	OFF	OFF	OFF	OFF	OFF	OFF	
Vehicle Parking (T/M Ctrl)	ON	ON	ON	ON	ON	ON	
Shift Pos Status (T/M Ctrl)	P	P	P	P	P	P	
Shift P Permission Signal	ON	ON	ON	ON	ON	ON	
DC/DC Cnv Temp (Upper)	38	38	37	38	38	38	C
Safing Signal (Airbag)	OFF	OFF	OFF	OFF	OFF	OFF	
DC/DC Cnv Temp (Lower)	37	37	37	37	37	37	C
Normal Signal for A/B ECU	ON	ON	ON	ON	ON	ON	
Mtr-T (MG1) afr IG-ON	51	51	51	51	51	51	C
Mtr-Temp (MG1) Max	55	55	55	55	55	55	C
Overvoltage Input to Conv	OFF	OFF	OFF	OFF	OFF	OFF	
Overvoltage Input to Inv	OFF	OFF	OFF	OFF	OFF	OFF	
Emergency Shutdown	OFF	OFF	OFF	OFF	OFF	OFF	
MG1 Inverter Shutdown	OFF	OFF	OFF	OFF	OFF	OFF	
MG1 Inverter Fail	OFF	OFF	OFF	OFF	OFF	OFF	
MG2 Inverter Shutdown	OFF	OFF	OFF	OFF	OFF	OFF	
MG2 Inverter Fail	OFF	OFF	OFF	OFF	OFF	OFF	
Conv Shutdown	OFF	OFF	OFF	OFF	OFF	OFF	
Converter Fail	OFF	OFF	OFF	OFF	OFF	OFF	
P Pos SW Terminal Vol	2.71	2.69	2.71	2.71	2.71	2.71	V
Internal Shift Position	P	P	P	P	P	P	
P Rq Malfunction (T/M Ctrl)	Norml	Norml	Norml	Norml	Norml	Norml	
P Request (T/M Ctrl)	ON	ON	ON	ON	ON	ON	
T/M Control ECU State	Norml	Norml	Norml	Norml	Norml	Norml	

Freeze Frame Data Report
POA7F(3 of 3)

Parameter	Value						Unit
	-3	-2	-1	0	1		
T/M ECU Pulse Consec Err	Norml	Norml	Norml	Norml	Norml	Norml	
T/M ECU Pulse Single Err	Norml	Norml	Norml	Norml	Norml	Norml	
HV Start Condition	Norml	Norml	Norml	Norml	Norml	Norml	
(Inverter) W/P Run Control Duty	62.50	62.50	62.50	62.50	62.50	62.50	%
Engine Stop Request	No	No	No	No	No	No	
Engine Idling Request	No	No	No	No	No	No	
Main Batt Charging Rqst	No	No	No	No	No	No	
Aircon Request	No	No	No	No	No	No	
Engine Warming Up Rqst	No	No	No	No	No	No	
SMRP Status	OFF	OFF	OFF	OFF	OFF	OFF	
SMRB Status	ON	ON	ON	ON	ON	ON	
SMRG Status	ON	ON	ON	ON	ON	ON	
MG1 Gate Status	OFF	OFF	OFF	OFF	OFF	OFF	
MG2 Gate Status	OFF	OFF	OFF	OFF	OFF	OFF	
Converter Gate Status	OFF	OFF	OFF	OFF	OFF	OFF	
Aircon Gate Status	ON	ON	ON	ON	ON	ON	
Converter Carrier Freq	9.55	9.55	9.55	9.55	9.55	9.55	kHz
Delta SOC	0.0	0.0	0.0	0.0	0.0	0.0	%
Batt Pack Current Val	-5.06	-5.13	-4.31	-4.17	-4.06	-4.06	A
Inhaling Air Temp	19.7	19.6	19.7	19.6	19.7	19.7	C
VMF Fan Motor Voltage1	0.0	0.0	0.0	0.0	0.0	0.0	V
Auxiliary Battery Vol	14.69	14.69	14.67	14.71	14.71	14.71	V
Charge Control Value	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	KW
Discharge Control Value	9.5	9.5	9.5	9.5	9.5	9.5	KW
Cooling Fan Mode1	0	0	0	0	0	0	
ECU Control Mode	0	0	0	0	0	0	
Standby Blower Request	OFF	OFF	OFF	OFF	OFF	OFF	
Temp of Batt TB1	31.2	31.2	31.2	31.1	31.2	31.2	C
Temp of Batt TB2	31.3	31.3	31.3	31.3	31.3	31.3	C
Temp of Batt TB3	30.9	30.9	30.9	30.8	30.9	30.9	C
Battery Block Vol -V01	16.72	16.72	16.70	16.70	16.72	16.72	V
Battery Block Vol -V02	16.65	16.65	16.65	16.65	16.62	16.62	V
Battery Block Vol -V03	16.60	16.60	16.60	16.60	16.60	16.60	V
Battery Block Vol -V04	16.60	16.58	16.58	16.58	16.58	16.58	V
Battery Block Vol -V05	16.52	16.57	16.53	16.55	16.53	16.53	V
Battery Block Vol -V06	16.40	16.43	16.40	16.40	16.40	16.40	V
Battery Block Vol -V07	16.40	16.40	16.38	16.40	16.40	16.40	V
Battery Block Vol -V08	16.50	16.50	16.50	16.50	16.50	16.50	V
Battery Block Vol -V09	16.55	16.55	16.55	16.53	16.53	16.53	V
Battery Block Vol -V10	16.58	16.60	16.58	16.55	16.55	16.55	V
Battery Block Vol -V11	16.62	16.65	16.60	16.62	16.62	16.62	V
Battery Block Vol -V12	16.62	16.62	16.62	16.60	16.62	16.62	V
Battery Block Vol -V13	16.65	16.67	16.67	16.67	16.65	16.65	V
Battery Block Vol -V14	16.75	16.77	16.75	16.75	16.75	16.75	V
Pattern Switch (PWR/M)	OFF	OFF	OFF	OFF	OFF	OFF	
Detail Code 1	N/A.	N/A.	N/A.	123	N/A.	N/A.	
Detail Code 2	N/A.	N/A.	N/A.	0	N/A.	N/A.	
Detail Code 3	N/A.	N/A.	N/A.	0	N/A.	N/A.	
Detail Code 4	N/A.	N/A.	N/A.	0	N/A.	N/A.	
Detail Code 5	N/A.	N/A.	N/A.	0	N/A.	N/A.	

Techstream (Ver 14.20.019) - 1106

File Function Setup TechDoc User Help

System Select | Stored Data | **Hybrid Control Live**

PRIUS ZVW3#
2ZRFXE

JTDKN38U605090376

Trouble Codes
Data List
Active Test
Monitor
Utility
Dual Data List

Freeze Frame Data
P0A7F-123 Hybrid Battery Pack Deterioration

*N/A=Not Available

Parameter	Unit	-3	-2	-1	0	1
ECU Control Mode		0	0	0	0	0
Standby Blower Request		OFF	OFF	OFF	OFF	OFF
Temp of Batt TB1	C	31.2	31.2	31.2	31.1	31.2
Temp of Batt TB2	C	31.3	31.3	31.3	31.3	31.3
Temp of Batt TB3	C	30.9	30.9	30.9	30.8	30.9
Battery Block Vol -V01	V	16.72	16.72	16.70	16.70	16.72
Battery Block Vol -V02	V	16.65	16.65	16.65	16.65	16.62
Battery Block Vol -V03	V	16.60	16.60	16.60	16.60	16.60
Battery Block Vol -V04	V	16.60	16.58	16.58	16.58	16.58
Battery Block Vol -V05	V	16.52	16.57	16.53	16.55	16.53
Battery Block Vol -V06	V	16.40	16.43	16.40	16.40	16.40
Battery Block Vol -V07	V	16.40	16.40	16.38	16.40	16.40
Battery Block Vol -V08	V	16.50	16.50	16.50	16.50	16.50
Battery Block Vol -V09	V	16.55	16.55	16.55	16.53	16.53
Battery Block Vol -V10	V	16.58	16.60	16.58	16.55	16.55
Battery Block Vol -V11	V	16.62	16.65	16.60	16.62	16.62
Battery Block Vol -V12	V	16.62	16.62	16.62	16.60	16.62
Battery Block Vol -V13	V	16.65	16.67	16.67	16.67	16.65
Battery Block Vol -V14	V	16.75	16.77	16.75	16.75	16.75
Pattern Switch (PWR/M)		OFF	OFF	OFF	OFF	OFF
Detail Code 1		N/A	N/A	N/A	123	N/A
Detail Code 2		N/A	N/A	N/A	0	N/A
Detail Code 3		N/A	N/A	N/A	0	N/A
Detail Code 4		N/A	N/A	N/A	0	N/A
Detail Code 5		N/A	N/A	N/A	0	N/A

Print
Close

All Data
 Sort A to Z
 Sort by Variable Item

S304-04 Hybrid Control Default User DLC 3