

Vehicle Diagnostic Report

2012 Prius V 2ZR-FXE

JTDZN3EU2C3049578

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Printed By: Default User(1)

8/3/2024 12:10:06 PM

Diagnostic Trouble Code Report Hybrid Control(1 of 1)

Code	Description	Current	Pending	History	Permanent	Summary	Freeze Frame
P0A80	Replace Hybrid Battery Pack	X	X	X	X	Icon B	Y

Freeze Frame Data Report P0A80(1 of 3)

Parameter						Unit
	-3	-2	-1	0	1	
Engine Coolant Temp	190	190	189	189	189	F
Engine Revolution	0	0	0	0	736	rpm
Vehicle Spd	0	1	1	0	0	MPH
Engine Run Time	1789	1789	1790	1790	1790	s
+B	14.04	14.04	14.02	14.02	14.02	V
Accel Pedal Pos #1	15.6	15.6	15.6	15.6	15.6	%
Accel Pedal Pos #2	31.7	31.7	31.7	31.7	31.7	%
Ambient Temperature	95	95	95	95	95	F
Intake Air Temperature	131	131	131	131	131	F
DTC Clear Warm Up	2	2	2	2	2	
DTC Clear Run Distance	18	18	18	18	18	mile
DTC Clear Min	99	99	99	99	99	min
MAP	-0	-0	-0	-1	-3	psi(gauge)
Atmosphere Pressure	-0	-0	-0	-0	-0	psi(gauge)
Ready Signal	ON	ON	ON	ON	ON	
Motor(MG2) Revolution	3	-7	-11	49	-1	rpm
Motor(MG2) Torq	0.00	0.00	0.00	8.50	5.75	Nm
M(MG2) Trq Exec Val	0.00	0.00	0.00	11.25	5.62	Nm
Generator(MG1) Rev	0	0	0	2225	3077	rpm
Generator(MG1) Torq	0.00	0.00	0.00	14.37	8.37	Nm
G(MG1) Trq Exec Val	0.00	0.00	0.00	16.75	11.50	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)	120	120	120	129	127	F
Inverter Temp-(MG2)	120	120	120	126	126	F
Motor Temp No2	174	174	174	174	174	F
Motor Temp No1	165	165	165	165	165	F
Accelerator Degree	0.0	0.0	0.0	0.0	0.0	%
Request Power	0	0	0	0	0	W
Target Engine Rev	1	0	0	548	810	rpm
Engine Rev (Sensor)	0	0	0	0	807	rpm
State of Charge (All Bat)	40.7	40.0	39.6	24.7	24.7	%
Master Cylinder Ctrl Trq	0.0	0.0	0.0	0.0	0.0	Nm
Power Resource VB	203.0	203.0	197.0	196.0	191.0	V
Power Resource IB	11.73	12.22	11.24	40.08	32.26	A
Power Supply Sensor Voltage	5.00	5.00	5.00	5.00	5.00	V
VL-Voltage before Boosting	202	202	201	194	196	V
VH-Voltage after Boosting	202	201	202	511	504	V
Boost Ratio	0.0	0.0	0.0	62.0	61.0	%
Drive Condition ID	0	0	0	2	2	
Shift Sensor Main	2.77	2.77	2.77	2.77	2.77	V
Shift Sensor Sub	2.75	2.75	2.75	2.75	2.75	V
Shift Sensor Select Main	1.50	1.50	1.50	1.50	1.50	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	-50	-50	-50	15	-40	deg (CA)
A/C Consumption Pwr	1550	1550	1550	1550	1550	W

Freeze Frame Data Report
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Parameter							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	0	0	0	0	0	0	
MG1 Carrier Frequency	3.75	3.75	3.75	3.75	3.75	3.75	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	0.0	0.0	0.0	0.0	0.0	0.0	%
Throttle Position	15.6	15.6	15.6	15.6	15.6	15.6	%
DCDC Cnv Tar Pulse Duty	57.3	57.3	57.3	57.3	57.3	57.3	%
Inverter Coolant Water Temperature	117	117	117	117	117	117	F
Cooling Fan 0	41.5	41.5	41.5	42.0	42.5		%
Cooling Fan Relay	ON	ON	ON	ON	ON		
Inverter W/P Revolution	3375	3375	3375	3375	3375	3375	rpm
Prohibit DC/DC conv sig	OFF	OFF	OFF	OFF	OFF	OFF	
EV Request	OFF	OFF	OFF	OFF	OFF	OFF	
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	0.1	0.1	0.1	0.1	0.1	0.1	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	129	129	129	129	129	129	F
Inv-T (MG2) afr IG-ON	127	127	127	127	127	127	F
Mtr-T (MG2) afr IG-ON	140	140	140	140	140	140	F
Conv-Tmp after IG-ON	129	129	129	129	129	129	F
SOC after IG-ON	67.5	67.5	67.5	67.5	67.5	67.5	%
Inv-Temp (MG1) Max	153	153	153	153	153	153	F
Inv-Temp (MG2) Max	180	180	180	180	180	180	F
Mtr-Temp (MG2) Max	172	172	172	172	172	172	F
Converter Temp Max	178	178	178	178	178	178	F
Status of Charge Max	67.5	67.5	67.5	67.5	67.5	67.5	%
Status of Charge Min	33.5	33.5	33.5	25.0	24.5		%
Stop Light Switch	OFF	OFF	OFF	OFF	OFF	OFF	
Auxiliary Batt Temperature	100	100	100	100	100	100	F
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	OFF	OFF	OFF	OFF	OFF	OFF	
Generate Torque	73.7	74.5	76.1	74.5	78.3		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)	120	120	120	122	122	122	F
Safing Signal (Airbag)	OFF	OFF	OFF	OFF	OFF	OFF	
DC/DC Cnv Temp (Lower)	117	117	117	124	124	124	F
Normal Signal for A/B ECU	ON	ON	ON	ON	ON	ON	
Mtr-T (MG1) afr IG-ON	151	151	151	151	151	151	F
Mtr-Temp (MG1) Max	178	178	178	178	178	178	F
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	2.55	2.55	2.55	2.53	2.55	2.55	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	
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	

Freeze Frame Data Report
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Parameter						Unit
	-3	-2	-1	0	1	
(Inverter) W/P Run Control Duty	62.50	62.50	62.50	62.50	62.50	%
Engine Stop Request	Request	Request	Request	No	No	
Engine Idling Request	No	No	No	Request	Request	
Main Batt Charging Rqst	No	No	No	Request	Request	
Aircon Request	No	No	No	No	No	
Engine Warming Up Rqst	No	No	No	No	No	
SMRP Status	OFF	OFF	OFF	OFF	OFF	
SMRB Status	ON	ON	ON	ON	ON	
SMRG Status	ON	ON	ON	ON	ON	
SMRP Control Status	OFF	OFF	OFF	OFF	OFF	
SMRB Control Status	ON	ON	ON	ON	ON	
SMRG Control Status	ON	ON	ON	ON	ON	
MG1 Gate Status	OFF	OFF	OFF	OFF	OFF	
MG2 Gate Status	OFF	OFF	OFF	OFF	OFF	
Converter Gate Status	OFF	OFF	OFF	OFF	OFF	
Aircon Gate Status	ON	ON	ON	ON	ON	
Converter Carrier Freq	9.55	9.55	9.55	7.45	7.45	kHz
Delta SOC	0.0	0.0	0.0	18.5	18.5	%
Batt Pack Current Val	11.61	11.63	11.63	50.82	37.55	A
Inhaling Air Temp	81.1	81.1	81.1	81.1	81.1	F
VMF Fan Motor Voltage 1	1.9	1.9	1.9	1.9	1.9	V
Auxiliary Battery Vol	14.00	14.00	13.98	13.98	13.96	V
Charge Control Value	-20.5	-20.5	-20.5	-20.5	-20.5	KW
Discharge Control Value	15.0	11.5	10.5	10.5	10.5	KW
Cooling Fan Mode1	3	3	3	3	3	
ECU Control Mode	0	0	0	0	0	
Standby Blower Request	OFF	OFF	OFF	OFF	OFF	
Temp of Batt TB1	105.6	105.6	105.6	105.6	105.6	F
Temp of Batt TB2	108.3	108.3	108.3	108.3	108.3	F
Temp of Batt TB3	106.7	106.7	106.5	106.7	106.5	F
Battery Block Vol -V01	14.35	14.35	14.33	13.75	13.99	V
Battery Block Vol -V02	12.89	12.89	12.89	12.10	12.45	V
Battery Block Vol -V03	14.25	14.25	14.25	13.40	13.84	V
Battery Block Vol -V04	14.50	14.50	14.47	13.67	14.08	V
Battery Block Vol -V05	14.47	14.47	14.47	13.66	14.07	V
Battery Block Vol -V06	14.43	14.43	14.43	13.64	14.08	V
Battery Block Vol -V07	14.45	14.45	14.47	13.86	14.08	V
Battery Block Vol -V08	14.47	14.47	14.47	13.89	14.11	V
Battery Block Vol -V09	14.45	14.45	14.45	13.84	14.11	V
Battery Block Vol -V10	14.43	14.43	14.43	13.81	14.08	V
Battery Block Vol -V11	14.45	14.45	14.45	13.69	14.08	V
Battery Block Vol -V12	14.52	14.52	14.50	13.77	14.16	V
Battery Block Vol -V13	14.50	14.50	14.50	13.77	14.08	V
Battery Block Vol -V14	14.52	14.52	14.52	13.77	14.08	V
Pattern Switch (PWR/M)	ON	ON	ON	ON	OFF	
Detail Code 1	0	0	0	123	0	
Detail Code 2	0	0	0	0	0	
Detail Code 3	0	0	0	0	0	
Detail Code 4	0	0	0	0	0	
Detail Code 5	0	0	0	0	0	