Vehicle Diagnostic Report

2010 Prius 2ZR-FXE

JTDKN3DU9A0007894

12/22/2018 4:59:02 PM

Diagnostic Trouble Code Report

Hybrid Control(1 of 1)

Code	Description	Current	Pending	History	Permanent	Summary	Freeze Frame
P0A0F	Engine Failed to Start	X		X		Icon E	Y
U0100	Lost Communication with ECM/PCM "A"				X		N

Freeze Frame Data Report

P0A0F(1 of 3)

Parameter	Value					Unit
	-3	-2	-1	0	1	
Engine Coolant Temp	39	39	39	39	39	F
Engine Revolution	0	0	0	0	0	rpm
Vehicle Spd	0	0	0	0	0	MPH
Engine Run Time	0	0	0	0	0	s
+B	14.08	14.21	14.31	14.35	14.37	V
Accel Pedal Pos #1	15.6	42.7	44.3	36.0	19.6	%
Accel Pedal Pos #2	32.1	58.8	60.3	52.5	35.6	%
Ambient Temperature	43	43	43	43	43	F
Intake Air Temperature	46	46	46	46	46	F
DTC Clear Warm Up	0	0	0	0	0	
DTC Clear Run Distance	0	0	0	0	0	mile
DTC Clear Min	0	0	0	0	0	min
MAP	-1	-1	-1	-1	-1	psi(gauge)
Atmosphere Pressure	-1	-1	-1	-1	-1	psi(gauge)
Motor(MG2) Revolution	0	0	0	1	0	rpm
Motor(MG2) Torq	29.87	29.87	29.87	29.87	11.75	Nm
M(MG2) Trq Exec Val	26.00	26.00	25.62	25.87	13.00	Nm
Generator(MG1) Rev	4913	4780	4610	4503	4418	rpm
Generator(MG1) Torq	0.00	0.00	0.00	0.00	0.00	Nm
G(MG1) Trq Exec Val	0.62	-0.25	0.75	0.75	0.87	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)	59	61	59	59	59	F
Inverter Temp-(MG2)	59	61	59	59	59	F
Motor Temp No2	39	39	37	39	39	F
Motor Temp No1	39	39	39	39	39	F
Accelerator Degree	0.5	48.0	42.0	41.5	1.5	%
Request Power	0	0	0	0	0	W
Target Engine Rev	1365	1328	1283	1254	1228	rpm
Engine Rev (Sensor)	0	0	0	0	0	rpm
State of Charge (All Bat)	59.6	59.6	59.6	59.6	59.6	%
Master Cylinder Ctrl Trq	-352.7	-362.4	-372.2	-377.2	-382.0	Nm
Power Resource VB	232.0	233.0	232.0	232.0	233.0	V
Power Resource IB	8.31	2.93	2.44	5.87	4.40	A
VL-Voltage before Boosting	232	232	231	232	232	V
VH-Voltage after Boosting	504	504	503	503	378	V
Boost Ratio	53.5	54.0	54.5	54.0	38.5	%
Drive Condition ID	2	2	2	2	1	
Shift Sensor Main	2.44	2.44	2.44	2.44	2.44	V
Shift Sensor Sub	2.44	2.44	2.44	2.44	2.44	V
Shift Sensor Select Main	1.40	1.40	1.40	1.40	1.40	V
Shift Sensor Select Sub	1.44	1.44	1.44	1.44	1.44	V
Shift Sensor Shift Pos	P	P	P	P	P	
Crank Position	-2	-87	52	75	44	deg (CA)
A/C Consumption Pwr	0	0	0	0	0	W
Short Wave Highest Val	1.32	1.19	1.19	1.21	1.21	V
MG1 Control Mode	0	0	0	0	0	
MG1 Carrier Frequency	10.00	10.00	10.00	10.00	10.00	kHz
MG2 Control Mode	0	0	0	0	0	
MG2 Carrier Frequency	2.50	2.50	2.50	2.50	2.50	kHz

Parameter	Value					Unit
	-3	-2	-1	0	1	
Num of Current Code	0	0	0	0	1	
Num of History Code	0	0	0	0	1	
Calculate Load	0.0	0.0	0.0	0.0	0.0	%
Throttle Position	17.2	17.2	17.2	17.2	17.2	%
DCDC Cnv Tar Pulse Duty	71.9	71.9	71.9	71.9	71.9	%
Inverter Coolant Water Temperature	43	43	43	43	43	F
Cooling Fan 0	36.0	36.0	36.0	35.5	36.0	%
Cooling Fan Relay	ON	ON	ON	ON	ON	
Inverter W/P Revolution	3500	3500	3375	3375	3375	rpm
Prohibit DC/DC conv sig	OFF	OFF	OFF	OFF	OFF	
EV Request	OFF	OFF	OFF	OFF	OFF	
Request Driving Force	0.0	0.0	0.0	0.0	0.0	N
Primary DF Rqst on CCS	Pedal	Pedal	Pedal	Pedal	Pedal	
Operator Override	Notctrl	Notctrl	Notctrl	Notctrl	Notctrl	
Accelerator Info for DSS	OFF	ON	ON	ON	OFF	
Gradient of Road Surface	0.2	0.2	0.2	0.2	0.2	m/s2
TRC OFF Switch	OFF	OFF	OFF	OFF	OFF	
IPA Creep up Rate	1.0	1.0	1.0	1.0	1.0	
IPA Control Signal	OFF	OFF	OFF	OFF	OFF	
Permit Start by Immobiliser	Norml	Norml	Norml	Norml	Norml	
Immobiliser Communication	ON	ON	ON	ON	ON	
Starter Switch	OFF	OFF	OFF	OFF	OFF	
Inv-T (MG1) aftr IG-ON	59	59	59	59	59	F
Inv-T (MG2) aftr IG-ON	59	59	59	59	59	F
Mtr-T (MG2) aftr IG-ON	39	39	39	39	39	F
Conv-Tmp after IG-ON	61	61	61	61	61	F
SOC after IG-ON	59.5	59.5	59.5	59.5	59.5	%
Inv-Temp (MG1) Max	63	63	63	63	63	F
Inv-Temp (MG2) Max	61	61	61	61	61	F
Mtr-Temp (MG2) Max	39	39	39	39	39	F
Converter Temp Max	63	63	63	63	63	F
Status of Charge Max	59.5	59.5	59.5	59.5	59.5	%
Status of Charge Min	59.5	59.5	59.5	59.5	59.5	%
Stop Light Switch	ON	ON	ON	ON	ON	
Auxiliary Batt Temperature	43	43	43	43	43	F
Collision Signal (Airbag)	OFF	OFF	OFF	OFF	OFF	
TC Terminal	OFF	OFF	OFF	OFF	OFF	
Inter Lock Switch	OFF	OFF	OFF	OFF	OFF	
EV Switch	OFF	OFF	OFF	OFF	OFF	
Back Up Lamp Relay	OFF	OFF	OFF	OFF	OFF	
ECO Mode	OFF	OFF	OFF	OFF	OFF	
Generate Torque	74.3	74.3	74.3	74.3	79.0	Nm
Prohibit Charge for P Pos	OFF	OFF	OFF	OFF	OFF	
Vehicle Parking (T/M Ctrl)	ON	ON	ON	ON	ON	
Shift Pos Status (T/M Ctrl)	P	P	P	P	P	
Shift P Permission Signal	ON	ON	ON	ON	ON	
DC/DC Cnv Temp (Upper)	59	59	59	59	59	F
Safing Signal (Airbag)	OFF	OFF	OFF	OFF	OFF	
DC/DC Cnv Temp (Lower)	59	61	61	61	59	F
Normal Signal for A/B ECU	ON	ON	ON	ON	ON	
Mtr-T (MG1) aftr IG-ON	39	39	39	39	39	F
Mtr-Temp (MG1) Max	39	39	39	39	39	F
Overvoltage Input to Conv	OFF	OFF	OFF	OFF	OFF	
Overvoltage Input to Inv	OFF	OFF	OFF	OFF	OFF	
Emergency Shutdown	OFF	OFF	OFF	OFF	OFF	
MG1 Inverter Shutdown	OFF	OFF	OFF	OFF	OFF	
MG1 Inverter Fail	OFF	OFF	OFF	OFF	OFF	
MG2 Inverter Shutdown	OFF	OFF	OFF	OFF	OFF	
MG2 Inverter Fail	OFF	OFF	OFF	OFF	OFF	
Conv Shutdown	OFF	OFF	OFF	OFF	OFF	
Converter Fail	OFF	OFF	OFF	OFF	OFF	
P Pos SW Terminal Vol	2.57	2.59	2.61	2.61	2.63	V
Internal Shift Position	P	P	P	P	P	
P Rq Malfunction (T/M Ctrl)	Norml	Norml	Norml	Norml	Norml	
P Request (T/M Ctrl)	ON	ON	ON	ON	ON	
T/M Control ECU State	Norml	Norml	Norml	Norml	Norml	
T/M ECU Pulse Consec Err	Norml	Norml	Norml	Norml	Norml	
T/M ECU Pulse Single Err	Norml	Norml	Norml	Norml	Norml	
HV Start Condition	Norml	Norml	Norml	Norml	Norml	
(Inverter) W/P Run Control Duty	62.50	62.50	62.50	62.50	62.50	%
Engine Stop Request	No	No	No	No	Request	
Engine Idling Request	Request	No	No	No	No	
Main Batt Charging Rqst	No	No	No	No	No	

Freeze Frame Data Report
P0A0F(3 of 3)

Parameter	Value					Unit
	-3	-2	-1	0	1	
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	
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	9.55	9.55	kHz
Delta SOC	0.0	0.0	0.0	0.0	0.0	%
Batt Pack Current Val	5.59	5.73	5.63	5.90	1.95	A
Inhaling Air Temp	45.9	45.9	45.9	45.9	45.9	F
VMF Fan Motor Voltage1	1.4	1.4	1.4	1.4	1.4	V
Auxiliary Battery Vol	14.00	14.16	14.26	14.30	14.34	V
Charge Control Value	-20.0	-20.0	-20.0	-20.0	-20.0	KW
Discharge Control Value	16.0	16.0	16.0	16.0	16.0	KW
Cooling Fan Mode1	1	1	1	1	1	
ECU Control Mode	0	0	0	0	0	
Standby Blower Request	OFF	OFF	OFF	OFF	OFF	
Temp of Batt TB1	56.3	56.3	56.3	56.3	56.3	F
Temp of Batt TB2	62.8	62.8	62.8	62.8	62.8	F
Temp of Batt TB3	57.4	57.0	57.0	57.4	57.4	F
Battery Block Vol -V01	16.58	16.53	16.55	16.65	16.60	V
Battery Block Vol -V02	16.53	16.48	16.48	16.58	16.53	V
Battery Block Vol -V03	16.67	16.65	16.53	16.58	16.62	V
Battery Block Vol -V04	16.65	16.60	16.53	16.53	16.60	V
Battery Block Vol -V05	16.59	16.62	16.62	16.56	16.52	V
Battery Block Vol -V06	16.53	16.58	16.58	16.53	16.48	V
Battery Block Vol -V07	16.58	16.55	16.62	16.65	16.62	V
Battery Block Vol -V08	16.60	16.55	16.62	16.65	16.65	V
Battery Block Vol -V09	16.58	16.65	16.58	16.60	16.58	V
Battery Block Vol -V10	16.53	16.60	16.53	16.58	16.55	V
Battery Block Vol -V11	16.58	16.58	16.55	16.60	16.55	V
Battery Block Vol -V12	16.58	16.55	16.53	16.58	16.53	V
Battery Block Vol -V13	16.60	16.55	16.65	16.62	16.58	V
Battery Block Vol -V14	16.58	16.53	16.62	16.58	16.53	V
Pattern Switch (PWR/M)	OFF	OFF	OFF	OFF	OFF	
Detail Code 1	N/A.	N/A.	N/A.	0	N/A.	
Detail Code 2	N/A.	N/A.	N/A.	524	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.	

Freeze Frame Data Screen Image
Hybrid Control(1 of 1)

Techstream (Ver 13.30.018) - 11067

File Function Setup TIS User Help

System Select | Stored Data | Engine and ECT Live | Hybrid Control Live | ABS/VSC/TRAC Live

2010 Prius
2ZR-FXE

JTDKN3DU9A0007894

2010_Prius_2ZR-
File Notes
Health Checl
Data 4-12/
Engine and E
DTC/Monit
122218
Hybrid Contr
DTC/Monit
122218
Data 3-

Sort
Expand>>
TIS Search
Print
Back

Freeze Frame Data

P0A0F-524 Engine Failed to Start

*N/A=Not Available

Parameter	Unit	-3	-2	-1	0	1
Engine Coolant Temp	F	39	39	39	39	39
Engine Revolution	rpm	0	0	0	0	0
Vehicle Spd	MPH	0	0	0	0	0
Engine Run Time	s	0	0	0	0	0
+B	V	14.08	14.21	14.31	14.35	14.37
Accel Pedal Pos #1	%	15.6	42.7	44.3	36.0	19.6
Accel Pedal Pos #2	%	32.1	58.8	60.3	52.5	35.6
Ambient Temperature	F	43	43	43	43	43
Intake Air Temperature	F	46	46	46	46	46
DTC Clear Warm Up		0	0	0	0	0
DTC Clear Run Distance	mile	0	0	0	0	0
DTC Clear Min	min	0	0	0	0	0
MAP	psi(gauge)	-1	-1	-1	-1	-1
Atmosphere Pressure	psi(gauge)	-1	-1	-1	-1	-1
Motor(MG2) Revolution	rpm	0	0	0	1	0
Motor(MG2) Torq	Nm	29.87	29.87	29.87	29.87	11.75
M(MG2) Trq Exec Val	Nm	26.00	26.00	25.62	25.87	13.00
Generator(MG1) Rev	rpm	4913	4780	4610	4503	4418
Generator(MG1) Torq	Nm	0.00	0.00	0.00	0.00	0.00
G(MG1) Trq Exec Val	Nm	0.62	-0.25	0.75	0.75	0.87
Regenerative Brake Torq	Nm	0.0	0.0	0.0	0.0	0.0
Rqst Regen Brake Torq	Nm	0.0	0.0	0.0	0.0	0.0
Inverter Temp-(MG1)	F	59	61	59	59	59

All Data
Sort A to Z
Sort by Variable Item

S400-08 Default User DLC 3