

Hybrid-Control-27dec17.xls - XPS Viewer

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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

Freeze Frame Data Report

P0A0F(1 of 3)

Parameter	-3	-2	-1	0	1	Unit
Engine Coolant Temp	16	16	16	16	16	F
Engine Revolution	0	0	0	0	0	rpm
Vehicle Speed	0	0	0	0	0	MPH
Engine Run Time	0	0	0	0	0	s
Accel Pedal Pos #1	13.88	13.88	13.88	13.88	13.88	V
Accel Pedal Pos #2	31.7	31.7	31.7	31.7	31.7	%
Ambient Temperature	21	21	21	21	21	F
Intake Air Temperature	34	34	34	34	34	F
DTC Clear Warm Up	0	0	0	0	0	mi
DTC Clear Run Distance	0	0	0	0	0	mi
DTC Clear Min	0	0	0	0	0	min
MAP	0	0	0	0	0	psi(gauge)
Atmosphere Pressure	-3	-3	-3	-3	-3	psi(gauge)
Ready Signal	ON	ON	ON	ON	ON	
Motor(MG2) Revolution	0	0	0	0	0	rpm
Motor(MG2) Torq	29.81	31.82	29.81	30.82	11.79	Nm
M(MG2) Trq Exec Val	25.82	26.79	26.79	26.79	13.00	Nm
Generator(MG1) Rev	4802	4359	4359	4334	4139	rpm
Generator(MG1) Torq	0.00	-1.30	0.00	0.75	0.00	Nm
G(MG1) Trq Exec Val	0.00	0.00	0.00	0.00	0.00	Nm
Regenerative Brake Torq	0.0	0.0	0.0	0.0	0.0	Nm
Road Regen Brake Torq	0.0	0.0	0.0	0.0	0.0	Nm
Inverter Temp(MG1)	61	61	61	61	61	F
Inverter Temp(MG2)	61	61	61	61	61	F
Motor Temp No2	16	16	16	16	16	F
Motor Temp No1	16	16	16	16	16	F
Accelerator Degree	0.0	0.0	0.0	0.0	0.0	%
Request Power	0	0	0	0	0	W
Target Engine Rev	1342	1200	1222	1212	1150	rpm
Engine Rev (Sensor)	0	0	0	0	0	rpm
State of Charge (All Bat)	87.8	87.8	87.8	87.8	87.8	%
Master Cylinder Crtl Trq	-385.4	-385.4	-385.4	-385.4	-385.4	Nm
Power Resource Vb	239.0	239.0	239.0	239.0	240.0	V
Power Resource Ib	1.52	1.49	1.49	1.44	1.41	A
VL-Voltage before Boosting	240	239	240	239	241	V
VH-Voltage after Boosting	500	500	500	501	418	V
Boost Ratio	50.0	50.0	50.0	50.0	40.0	%
Drive Condition ID	4	4	4	4	4	
Shift Sensor Main	2.28	2.28	2.28	2.28	2.28	V
Shift Sensor Sub	2.28	2.28	2.28	2.28	2.28	V
Shift Sensor Select Main	1.42	1.42	1.42	1.42	1.42	V
Shift Sensor Select Sub	1.42	1.42	1.42	1.42	1.42	V
Shift Sensor Shift Pos	P	P	P	P	P	
Crank Position	16	26	75	-7	52	deg (CA)
A/C Consumption Pwr	0	0	0	0	0	W
Short Wave Highest Val	4.93	4.93	4.93	4.93	4.93	V

Page 1 of 3 81%

Hybrid-Control-27dec17.xls - XPS Viewer

Parameter	-3	-2	-1	0	1	Unit
MG1 Control Mode	0	0	0	0	0	
MG1 Carrier Frequency	10.00	10.00	10.00	10.00	5.00	kHz
MG2 Control Mode	0	0	0	0	0	
MG2 Carrier Frequency	2.50	2.50	2.50	2.50	2.50	kHz
Num of Current Mode	0	0	0	0	0	
Num of History Code	0	0	0	0	0	
Calculate Load	0.0	0.0	0.0	0.0	0.0	%
Throttle Position	11.2	11.2	11.2	11.2	11.2	%
DCDC Crv Tr Pulse Duty	56.0	56.0	56.0	56.0	56.0	%
Inverter Coolant Water Temperature	16	16	16	16	16	F
Cooling Fan 0	0.0	0.0	0.0	0.0	0.0	%
Cooling Fan Relay	ON	ON	ON	ON	ON	
Inverter W/P Revolution	500	2500	2500	2500	2500	rpm
Prohibit DC/DC con/sig	OFF	OFF	OFF	OFF	OFF	
EV Request	OFF	OFF	OFF	OFF	OFF	
Primary UP Rest on CCS	Feas	Feas	Feas	Feas	Feas	
Operator Override	Nototr	Nototr	Nototr	Nototr	Nototr	
Accelerator Info for DSS	OFF	OFF	OFF	OFF	OFF	
Gradient of Road Surface	0.2	0.2	0.2	0.2	0.2	ms2
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 Immobilizer	Norm	Norm	Norm	Norm	Norm	
Immobiliser Communication	ON	ON	ON	ON	ON	
Starter Switch	OFF	OFF	OFF	OFF	OFF	
Inv-1 (MG1) afr (G-ON)	81	81	81	81	81	F
Inv-1 (MG2) afr (G-ON)	81	81	81	81	81	F
Mr-1 (MG2) afr (G-ON)	18	18	18	18	18	F
Conv-1mp after (G-ON)	81	81	81	81	81	F
SDC after (G-ON)	56.3	56.3	56.3	56.3	56.3	%
Inv-temp (MG1) Max	61	61	61	61	61	F
Inv-temp (MG2) Max	61	61	61	61	61	F
Mr-temp (MG2) Max	16	16	16	16	16	F
Converter Temp Max	61	61	61	61	61	F
Status of Charge Max	87.2	87.2	87.2	87.2	87.2	%
Status of Charge Min	56.2	56.2	56.2	56.2	56.2	%
Stop Light Switch	ON	ON	ON	ON	ON	
Auxiliary BSM Temperature	26	26	26	26	26	F
Collision Signal (Airbag)	OFF	OFF	OFF	OFF	OFF	
IC Terminal	OFF	OFF	OFF	OFF	OFF	
Inter Lock Switch	OFF	OFF	OFF	OFF	OFF	
EV Switch	OFF	OFF	OFF	OFF	OFF	
Back Up Lamo Relay	OFF	OFF	OFF	OFF	OFF	
ECO Mode	OFF	OFF	OFF	OFF	OFF	
Generate Torque	74.3	74.3	74.3	74.3	76.0	Nm
Prohibit Charge for P Pos	OFF	OFF	OFF	OFF	OFF	
Vehicle Parking (T/M Ctr)	ON	ON	ON	ON	ON	
Shift Pos Status (T/M Ctr)	P	P	P	P	P	
Shift P Permission Signal	ON	ON	ON	ON	ON	
DCDC Crv Temp (Upper)	61	61	61	61	61	F
Safety Signal (Airbag)	OFF	OFF	OFF	OFF	OFF	
DCDC Crv Temp (Lower)	61	61	61	61	61	F
Normal Signal for A/B ECU	ON	ON	ON	ON	ON	
Mr-1 (MG1) afr (G-ON)	18	18	18	18	18	F
Mr-temp (MG1) Max	16	16	16	16	16	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 S/T Terminal Vol	2.33	2.33	2.33	2.33	2.33	V
Internal Shift Position	P	P	P	P	P	
P Rq Malfunction (T/M Ctr)	Norm	Norm	Norm	Norm	Norm	
P Request (T/M Ctr)	OK	OK	OK	OK	OK	
T/M Control ECU State	Norm	Norm	Norm	Norm	Norm	
T/M ECU Pulse Conseq Err	Norm	Norm	Norm	Norm	Norm	
T/M ECU Pulse Single Err	Norm	Norm	Norm	Norm	Norm	
HV Start Condition	Norm	Norm	Norm	Norm	Norm	
Inverter W/P Run Control Duty	62.50	62.50	62.50	62.50	62.50	%

Page 2 of 3 76%

ECU Pulse Control Err	Norm	Norm	Norm	Norm	Norm
ECU Pulse Single Err	Norm	Norm	Norm	Norm	Norm
EV Start Condition	Norm	Norm	Norm	Norm	Norm
Inverter WIP Run Control Duty	82.50	82.50	82.50	82.50	82.50 %

page(2 of 3)

Freeze Frame Data Report
P0A0F(3 of 3)

Parameter	-3	-2	-1	0	1	Unit
Engine Stop Request	No	No	No	No	Request	
Engine Stop Request	Request	Request	Request	Request	No	
Main Batt Charging Rost	No	No	No	No	No	
Aircon Request	No	No	No	No	No	
Engine Warming Up Rost	Request	Request	Request	Request	Request	
SVRF Status	OFF	OFF	OFF	OFF	OFF	
SVRF Status	ON	ON	ON	ON	ON	
SVRF Status	ON	ON	ON	ON	ON	
M01 Gate Status	OFF	OFF	OFF	OFF	ON	
M02 Gate Status	OFF	OFF	OFF	OFF	OFF	
Converter Gate Status	OFF	OFF	OFF	OFF	OFF	
Aircon Gate Status	OFF	OFF	OFF	OFF	OFF	
Converter Carrier Freq	9.25	9.25	9.25	9.25	9.25	kHz
Delta SOC	0.0	0.0	0.0	0.0	0.0	%
Batt Pack Current Val	4.11	3.92	11.23	10.01	3.33	A
Inhaling Air Temp	29.3	29.3	29.3	29.3	29.1	F
NMF Fan Motor Voltage1	9.0	9.0	9.0	9.0	9.0	V
Humidity Battery V0	13.31	13.31	13.31	13.31	13.31	V
Charge Control Value	-12.0	-12.0	-12.0	-12.0	-12.0	KW
Discharge Control Value	11.0	11.0	11.0	11.0	11.0	KW
Cooling Fan Mode1	0	0	0	0	0	
ECU Control Mode	0	0	0	0	0	
Standby Blower Request	OFF	OFF	OFF	OFF	OFF	
Temp of Batt TB1	38.1	38.1	38.1	38.1	38.1	F
Temp of Batt TB2	39.1	39.1	39.1	39.1	39.1	F
Temp of Batt TB3	38.1	38.1	38.1	38.1	37.8	F
Battery Block V01	16.94	16.99	16.94	16.93	16.99	V
Battery Block V02	16.94	17.09	16.94	16.93	16.91	V
Battery Block V03	17.09	17.09	16.93	16.93	17.09	V
Battery Block V04	17.11	17.11	16.93	16.93	17.09	V
Battery Block V05	17.00	17.00	16.99	16.93	16.99	V
Battery Block V06	17.04	17.04	16.93	16.93	16.99	V
Battery Block V07	17.04	17.04	16.99	16.93	17.09	V
Battery Block V08	17.09	17.09	16.93	16.93	17.11	V
Battery Block V09	17.14	17.09	16.99	16.91	17.09	V
Battery Block V10	17.14	17.09	16.91	16.94	17.11	V
Battery Block V11	17.04	16.94	16.99	16.94	17.04	V
Battery Block V12	17.04	16.91	16.94	16.91	17.09	V
Battery Block V13	17.09	17.09	16.94	16.91	16.94	V
Battery Block V14	17.09	17.09	16.94	16.91	16.99	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	52	N/A	
Detail Code 3	N/A	N/A	N/A	4	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	