

Vehicle Diagnostic Report

2011 CT200h 2ZR-FXE

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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		Icon B	Y

Freeze Frame Data Report P0A80(1 of 3)

Parameter	Value						Unit
	-3	-2	-1	0	1		
Engine Coolant Temp	86	86	86	86	86	86	C
Engine Revolution	0	0	0	0	0	0	rpm
Vehicle Spd	0	0	0	0	0	0	km/h
Engine Run Time	1371	1372	1372	1373	1373	1373	s
+B	14.23	14.25	14.25	14.21	14.21	14.21	V
Accel Pedal Pos #1	16.0	16.0	16.0	16.0	16.0	16.0	%
Accel Pedal Pos #2	32.1	32.1	32.1	32.1	32.1	32.1	%
Ambient Temperature	30	30	30	30	30	30	C
Intake Air Temperature	55	55	55	55	55	55	C
DTC Clear Warm Up	8	8	8	8	8	8	
DTC Clear Run Distance	98	98	98	98	98	98	km
DTC Clear Min	208	208	208	208	208	208	min
MAP	94	94	94	94	94	94	kPa(abs)
Atmosphere Pressure	94	94	94	94	94	94	kPa(abs)
Ready Signal	ON	ON	ON	ON	ON	ON	
Motor(MG2) Revolution	0	0	0	0	0	0	rpm
Motor(MG2) Torq	0.00	0.00	0.00	0.25	0.62	0.62	Nm
M(MG2) Trq Exec Val	0.00	0.00	0.00	0.00	0.00	0.00	Nm
Generator(MG1) Rev	0	0	0	0	0	0	rpm
Generator(MG1) Torq	0.00	0.00	0.00	0.00	0.00	0.00	Nm
G(MG1) Trq Exec Val	-0.25	0.00	0.00	0.00	0.00	0.00	Nm
Regenerative Brake Torq	0.0	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	0.0	Nm
Inverter Temp-(MG1)	41	41	41	41	41	41	C
Inverter Temp-(MG2)	41	41	41	41	41	41	C
Motor Temp No2	66	66	66	66	66	66	C
Motor Temp No1	65	65	64	64	64	64	C
Accelerator Degree	0.0	0.0	0.0	0.0	0.0	0.0	%
Request Power	0	0	0	0	0	0	W
Target Engine Rev	0	0	0	0	0	0	rpm
Engine Rev (Sensor)	0	0	0	0	0	0	rpm
State of Charge (All Bat)	46.6	46.6	46.6	24.7	24.7	24.7	%
Master Cylinder Ctrl Trq	0.0	0.0	0.0	0.0	0.0	0.0	Nm
Power Resource VB	220.0	220.0	216.0	206.0	219.0	219.0	V
Power Resource IB	3.42	3.42	3.42	3.42	24.93	24.93	A
VL-Voltage before Boosting	219	220	219	217	217	217	V
VH-Voltage after Boosting	215	215	215	343	585	585	V
Boost Ratio	0.0	0.0	0.0	47.0	66.0	66.0	%
Drive Condition ID	0	0	0	2	2	2	
Shift Sensor Main	2.69	2.69	2.69	2.69	2.69	2.69	V
Shift Sensor Sub	2.67	2.67	2.67	2.67	2.67	2.67	V
Shift Sensor Select Main	1.42	1.42	1.42	1.42	1.42	1.42	V
Shift Sensor Select Sub	1.44	1.44	1.44	1.44	1.44	1.44	V
Shift Sensor Shift Pos	P	P	P	P	P	P	
Crank Position	-3	-3	-3	-3	-3	-3	deg (CA)
A/C Consumption Pwr	550	550	550	550	550	550	W
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	1	1	

Freeze Frame Data Report
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Parameter	Value					Unit
	-3	-2	-1	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	15.2	15.2	15.2	15.2	15.2	%
DCDC Cnv Tar Pulse Duty	61.9	61.9	61.9	61.9	61.9	%
Inverter Coolant Water Temperature	42	42	42	42	42	C
Cooling Fan 0	37.5	37.0	37.5	38.0	38.0	%
Cooling Fan Relay	ON	ON	ON	ON	ON	
Inverter W/P Revolution	3500	3500	3500	3500	3500	rpm
Prohibit DC/DC conv sig	OFF	OFF	OFF	OFF	OFF	
EV Request	OFF	OFF	OFF	OFF	OFF	
Primary DF Rqst on CCS	Pedal	Pedal	Pedal	Pedal	Pedal	
Operator Override	Notctrl	Notctrl	Notctrl	Notctrl	Notctrl	
Accelerator Info for DSS	OFF	OFF	OFF	OFF	OFF	
Gradient of Road Surface	0.0	0.0	0.0	0.0	0.0	m/s2
TRC OFF Switch	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) afr IG-ON	49	49	49	49	49	C
Inv-T (MG2) afr IG-ON	49	49	49	49	49	C
Mtr-T (MG2) afr IG-ON	55	55	55	55	55	C
Conv-Tmp after IG-ON	50	50	50	50	50	C
SOC after IG-ON	29.5	29.5	29.5	29.5	29.5	%
Inv-Temp (MG1) Max	66	66	66	66	66	C
Inv-Temp (MG2) Max	60	60	60	60	60	C
Mtr-Temp (MG2) Max	65	65	65	65	65	C
Converter Temp Max	81	81	81	81	81	C
Status of Charge Max	57.0	57.0	57.0	57.0	57.0	%
Status of Charge Min	29.5	29.5	29.5	25.0	25.0	%
Stop Light Switch	OFF	OFF	OFF	OFF	OFF	
Auxiliary Batt Temperature	38	38	38	38	38	C
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)	40	40	40	40	41	C
Safing Signal (Airbag)	OFF	OFF	OFF	OFF	OFF	
DC/DC Cnv Temp (Lower)	40	40	40	40	41	C
Normal Signal for A/B ECU	ON	ON	ON	ON	ON	
Mtr-T (MG1) afr IG-ON	60	60	60	60	60	C
Mtr-Temp (MG1) Max	66	66	66	66	66	C
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	2.61	2.59	2.61	2.59	2.59	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	Request	Request	Request	No	No	
Engine Idling Request	No	No	No	Request	Request	
Main Batt Charging Rqst	No	No	No	No	No	
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	

Freeze Frame Data Report
POA80(3 of 3)

Parameter	Value					Unit
	-3	-2	-1	0	1	
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	OFF	OFF	
Converter Carrier Freq	9.55	9.55	9.55	9.55	9.55	kHz
Delta SOC	0.0	0.0	0.0	32.5	32.5	%
Batt Pack Current Val	3.45	3.49	3.45	4.19	4.19	A
Inhaling Air Temp	31.7	31.7	31.7	31.7	31.7	C
VMF Fan Motor Voltage1	1.6	1.6	1.6	1.6	1.6	V
Auxiliary Battery Vol	14.20	14.20	14.20	14.18	14.18	V
Charge Control Value	-23.5	-23.5	-23.5	-23.5	-23.5	KW
Discharge Control Value	10.5	10.5	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	ON	ON	ON	ON	ON	
Temp of Batt TB1	40.7	40.7	40.7	40.7	40.7	C
Temp of Batt TB2	40.8	40.8	40.8	40.8	40.8	C
Temp of Batt TB3	39.2	39.2	39.2	39.2	39.2	C
Battery Block Vol -V01	15.82	15.84	15.84	15.84	15.60	V
Battery Block Vol -V02	15.65	15.65	15.62	15.60	15.38	V
Battery Block Vol -V03	15.52	15.52	15.50	15.52	15.52	V
Battery Block Vol -V04	15.33	15.33	15.33	15.33	15.33	V
Battery Block Vol -V05	15.00	15.00	15.00	15.00	14.84	V
Battery Block Vol -V06	14.72	14.72	14.69	14.72	14.57	V
Battery Block Vol -V07	15.94	15.94	15.94	15.94	15.94	V
Battery Block Vol -V08	15.96	15.96	15.96	15.94	15.94	V
Battery Block Vol -V09	14.33	14.33	14.33	14.33	14.16	V
Battery Block Vol -V10	15.38	15.38	15.35	15.35	15.18	V
Battery Block Vol -V11	15.35	15.33	15.33	15.35	15.35	V
Battery Block Vol -V12	15.52	15.55	15.52	15.52	15.52	V
Battery Block Vol -V13	15.65	15.65	15.67	15.65	15.55	V
Battery Block Vol -V14	15.89	15.89	15.87	15.87	15.77	V
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.	