

Freeze Frame Data Report  
POA80(3 of 3)

Parameter	3	2	1	0	1	0	Unit
P Request (T/M Ctrl)	OFF	OFF	OFF	OFF	OFF	OFF	
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	
(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	Request	Request	Request	Request	Request	Request	
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	
SMRP Control Status	OFF	OFF	OFF	OFF	OFF	OFF	
SMRB Control Status	ON	ON	ON	ON	ON	ON	
SMRG Control 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	7.45	9.55	9.55	9.55	9.55	9.55	KHz
Delta SOC	0.0	0.0	0.0	0.0	6.0	6.0	%
Batt Pack Current Val	27.66	8.10	9.15	9.15	9.15	-12.96	A
Inhaling Air Temp	31.2	31.2	31.1	31.1	31.1	31.1	C
VMF Fan Motor Voltage1	1.7	1.8	2.0	2.0	2.0	2.2	V
Auxiliary Battery Vol	14.00	14.02	14.02	14.02	14.02	14.04	V
Charge Control Value	-22.5	-22.5	-22.5	-22.5	-22.5	-22.0	KW
Discharge Control Value	12.5	10.5	10.5	10.5	10.5	10.5	KW
Cooling Fan Mode1	3	3	3	3	3	3	
ECU Control Mode	0	0	0	0	0	0	
Standby Blower Request	OFF	OFF	OFF	OFF	OFF	OFF	
Temp of Batt TB1	39.1	39.1	39.1	39.1	39.1	39.1	C
Temp of Batt TB2	41.3	41.3	41.3	41.3	41.3	41.3	C
Temp of Batt TB3	38.6	38.6	38.6	38.6	38.6	38.6	C
Battery Block Vol -V01	14.38	14.52	14.50	14.50	14.55	14.94	V
Battery Block Vol -V02	14.35	14.50	14.45	14.45	14.55	14.87	V
Battery Block Vol -V03	14.11	14.35	14.35	14.35	14.35	14.74	V
Battery Block Vol -V04	13.94	14.23	14.18	14.18	14.18	14.52	V
Battery Block Vol -V05	13.90	14.25	14.21	14.21	14.10	14.57	V
Battery Block Vol -V06	14.11	14.40	14.35	14.35	14.28	14.74	V
Battery Block Vol -V07	12.32	13.06	12.57	12.57	13.01	14.25	V
Battery Block Vol -V08	14.03	14.38	14.23	14.23	14.38	14.62	V
Battery Block Vol -V09	14.03	14.28	14.18	14.18	14.23	14.52	V
Battery Block Vol -V10	14.11	14.38	14.28	14.28	14.30	14.57	V
Battery Block Vol -V11	14.01	14.30	14.35	14.35	14.45	14.69	V
Battery Block Vol -V12	14.16	14.45	14.47	14.47	14.52	14.82	V
Battery Block Vol -V13	14.28	14.52	14.47	14.47	14.52	14.87	V
Battery Block Vol -V14	14.45	14.69	14.69	14.69	14.69	15.04	V
Pattern Switch (PWR/M)	OFF	OFF	OFF	OFF	OFF	OFF	
Detail Code 1	0	0	0	0	123	0	
Detail Code 2	0	0	0	0	0	0	
Detail Code 3	0	0	0	0	0	0	
Detail Code 4	0	0	0	0	0	0	
Detail Code 5	0	0	0	0	0	0	

**Freeze Frame Data Report**  
POA80(2 of 3)

Parameter	44	47	67	44	56	deg (CA) W V
Crank Position	44	47	67	44	56	
A/C Consumption Pwr	0	0	600	600	650	
Short Wave Highest Val	4.98	4.98	4.98	4.98	4.98	
MG1 Control Mode	0	0	1	1	2	
MG1 Carrier Frequency	10.00	10.00	5.00	5.00	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 Code	0	0	0	0	2	
Num of History Code	1	1	1	1	2	
Calculate Load	76.4	98.0	98.0	98.0	95.2	%
Throttle Position	16.4	31.3	31.3	31.3	32.5	%
DC/DC Cnv Tar Pulse Duty	58.8	58.8	58.8	58.8	58.8	%
Inverter Coolant Water Temperature	52	52	52	52	52	C
Cooling Fan 0	41.5	44.0	46.5	46.5	49.5	%
Cooling Fan Relay	ON	ON	ON	ON	ON	
Inverter W/P Revolution	3375	3375	3375	3375	3375	rpm
Prohibit DC/DC conv sig	OFF	OFF	OFF	OFF	OFF	
DC/DC Converter Status Voltage	3.81	3.81	3.81	3.81	3.81	V
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	ON	ON	ON	ON	ON	
Gradient of Road Surface	-0.3	-0.1	0.0	0.0	0.0	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) afr IG-ON	53	53	53	53	53	C
Inv-T (MG2) afr IG-ON	54	54	54	54	54	C
Mtr-T (MG2) afr IG-ON	54	54	54	54	54	C
Conv-Tmp after IG-ON	54	54	54	54	54	C
SOC after IG-ON	48.5	48.5	48.5	48.5	48.5	%
Inv-Temp (MG1) Max	60	67	67	67	67	C
Inv-Temp (MG2) Max	62	65	65	65	65	C
Mtr-Temp (MG2) Max	56	56	56	56	56	C
Converter Temp Max	65	65	65	65	65	C
Status of Charge Max	48.5	48.5	48.5	48.5	48.5	%
Status of Charge Min	39.0	39.0	24.5	24.5	24.5	%
Stop Light Switch	OFF	OFF	OFF	OFF	OFF	
Auxiliary Batt Temperature	32	32	32	33	33	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	ON	ON	ON	ON	OFF	
Generate Torque	-3.0	-14.4	-21.8	-22.3	-22.9	Nm
Prohibit Charge for P Pos	OFF	OFF	OFF	OFF	OFF	
Vehicle Parking (T/M Ctrl)	OFF	OFF	OFF	OFF	OFF	
Shift Pos Status (T/M Ctrl)	Not P	Not P	Not P	Not P	Not P	
Shift P Permission Signal	ON	ON	ON	ON	ON	
DC/DC Cnv Temp (Upper)	56	59	60	60	62	C
Safing Signal (Airbag)	OFF	OFF	OFF	OFF	OFF	
DC/DC Cnv Temp (Lower)	62	62	62	62	60	C
Normal Signal for A/B ECU	ON	ON	ON	ON	ON	
Mtr-T (MG1) afr IG-ON	61	61	61	61	61	C
Mtr-Temp (MG1) Max	61	61	61	61	61	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	
Inv Shutdown	OFF	OFF	OFF	OFF	OFF	
Inverter Fail	OFF	OFF	OFF	OFF	OFF	
Pos SW Terminal Vol	2.59	2.57	2.57	2.59	2.59	V
Normal Shift Position	D	D	D	D	D	
g Malfunction (T/M Ctrl)	Norml	Norml	Norml	Norml	Norml	

POA08  
POA80DC/DC Converter Status Circuit  
Replace Hybrid Battery Pack

X

X

X

Icon A  
Icon BN  
YFreeze Frame Data Report  
POA80(1 of 3)

Parameter	Value					Unit
	-3	-2	-1	0	1	
Engine Coolant Temp	70	69	69	69	69	C
Engine Revolution	1952	2176	2400	2400	2560	rpm
Vehicle Spd	12	16	19	19	23	km/h
Engine Run Time	54	54	55	55	55	s
+B	14.16	14.17	14.17	14.17	14.17	V
Accel Pedal Pos #1	46.2	45.8	45.8	45.8	45.4	%
Accel Pedal Pos #2	63.9	63.1	63.5	63.5	62.7	%
Ambient Temperature	28	28	28	28	28	C
Intake Air Temperature	60	59	58	58	56	C
DTC Clear Warm Up	255	255	255	255	255	
DTC Clear Run Distance	57136	57136	57136	57136	57136	km
DTC Clear Min	65535	65535	65535	65535	65535	min
MAP	94	95	95	95	91	kPa(abs)
Atmosphere Pressure	100	100	100	100	100	kPa(abs)
Ready Signal	ON	ON	ON	ON	ON	
Motor(MG2) Revolution	956	1220	1511	1513	1763	rpm
Motor(MG2) Torq	104.25	101.12	91.00	90.87	79.87	Nm
M(MG2) Trq Exec Val	88.75	99.75	91.12	89.62	77.12	Nm
Generator(MG1) Rev	6105	6722	7176	7179	7555	rpm
Generator(MG1) Torq	-16.63	-22.88	-24.38	-24.25	-27.50	Nm
G(MG1) Trq Exec Val	-10.75	-21.00	-22.38	-21.88	-25.00	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)	58	66	60	60	58	C
Inverter Temp-(MG2)	61	65	65	65	65	C
Motor Temp No2	61	61	61	61	61	C
Motor Temp No1	56	56	56	56	56	C
Accelerator Degree	49.0	49.0	49.5	49.5	49.5	%
Request Power	22740	25370	28290	28310	30160	W
Target Engine Rev	1941	2210	2399	2402	2541	rpm
Engine Rev (Sensor)	1813	2182	2388	2388	2572	rpm
State of Charge (All Bat)	39.6	39.2	24.7	24.7	24.7	%
Master Cylinder Ctrl Trq	0.0	0.0	0.0	0.0	0.0	Nm
Power Resource VB	201.0	203.0	200.0	203.0	206.0	V
Power Resource IB	19.55	11.24	8.80	9.78	-15.15	A
Power Supply Sensor Voltage	4.99	4.99	4.99	4.99	4.99	V
1/L-Voltage before Boosting	198	201	202	203	208	V
1/H-Voltage after Boosting	547	500	500	500	500	V
Boost Ratio	65.0	60.0	60.0	60.0	58.0	%
Drive Condition ID	3	3	3	3	3	
Shift Sensor Main	2.89	2.89	2.89	2.89	2.89	V
Shift Sensor Sub	2.87	2.87	2.87	2.87	2.87	V
Shift Sensor Select Main	1.42	1.42	1.42	1.42	1.42	V
Shift Sensor Select Sub	1.40	1.40	1.40	1.40	1.40	V
Shift Sensor Shift Pos	D	D	D	D	D	

Enhanced

	No	POA08			X
	Yes	POA80	X	X	X
Hybrid Control					
Engine and ECT					
Cruise Control					

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