



ECU SUMMARY INFO

[illegible]

ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM	USA / USA					
PCM	USA					
ASBS	USA					
ICS	USA					
TPM	USA					
RFH	USA / USA					
ESM	USA					
DTCM	USA					
ORC	USA					
EPS	USA					
HVAC	USA					
CSWM	USA					
AMP	USA					
IPC	USA					
SCCM	USA					
BCM	USA					
RADIO	USA					
OCM	USA					
BPCM	Rest of world / ROW					
HCP	USA					
AHCP	USA					
ABSO	USA					
SGW						
DPDM	USA					
IDCM	USA					

DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
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RADIO			
RADIO			
BPCM			

ENVIRONMENTAL DATA SUMMARY

RADIO |

NAME	VALUE	UNITS
DTCTable		
TestFailed		
TestFailedThisMonitoringCycle		
Pending DTC		
Confirmed DTC		
Test Not Completed This Monitoring Cycle		
Warning Indicator Requested		
DTCExtendedDataRecordNumber		
Occurance Flag		
Reserved		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Counter	0	
RDI \$6080		
Event Counter		

RADIO |

NAME	VALUE	UNITS
DTCTable		
TestFailed		
TestFailedThisMonitoringCycle		
Pending DTC		
Confirmed DTC		
Test Not Completed This Monitoring Cycle		
Warning Indicator Requested		
DTCExtendedDataRecordNumber		
Occurance Flag		
Reserved		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Counter		
RDI \$6080		

Event Counter

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BPCM

NAME	VALUE	UNITS
DTC		
Test Failed		
Test Failed This Operation Cycle		
Pending DTC		
Confirmed DTC		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
FoM - for this DTC (lifetime fails)		events
FoM - for this DTC (lifetime fails counts on pass)		seconds
FoM - for this DTC (lifetime longest fail on pass)		seconds
Battery Total Time Awake		seconds
Key in Ignition		
EPT -WakeUp		
HCP Contactor Command		
Qualified Contactor Command - QCC		
Verified Contactor Command - VCC		
Contactor Status		
Plug in Status		
Balance Mode		
Vehicle Speed		MPH
System (12) Volts at time of fault		Volts
Battery Lifetime AmpHrs of Charge		AHr
Battery Lifetime AmpHrs of DisCharge		AHr
HVIL Status Vehicle		
Cycles left to self heal		No Unit
HV Battery Charge Power 2sec		watts
HV Battery Charge Power 10sec		watts
HV Battery Discharge Power 2sec		watts
HV Battery Discharge Power 10sec		watts
Key - DriveRdy (CAN)		
Battery Lifetime Number Of Closes		

SessionID #

Battery Full AmpHr Capacity		
		mV
Battery Cell Voltage Minimum		mV
Battery Cell Voltage Average		mV
Battery Temperature Maximum Module		°F
Battery Temperature Minimum Module		°F
Battery Temperature Average Module		°F
Battery Temperature Number of Failing Sensors		
DTC Extended Data Record Number - All		
DTC Extended Data Record Number 2		
HV Battery Charge Power 30sec		watts
HV Battery Discharge Power 30sec		watts
Key Position		
SOC		%
HV Bat SOH R		%
HV Bat SOH-C	0	%
Cell Impedance Max Discharge		mOhms
Cell Impedance Min Discharge		mOhms
HVIL Status - Battery pack		
HVIL PWM Duty Cycle source Vehicle		%
HVIL PWM Duty Cycle Sink - Battery		%
HVIL PWM Duty Cycle Source - Battery		%
HVIL PWM Duty Cycle Sink Battery		%
HVIL PWM Frequency source - Vehicle		Hz
HVIL PWM Frequency Sink Vehicle		Hz
HVIL PWM Frequency Source - Battery		Hz
HVIL PWM Frequency Sink Battery		Hz
HVIL Returned current Vehicle		mA
HVIL Returned current - Battery		mA
Battery Cell Highest Cell number		
Battery Cell Lowest Cell number		
HV Battery Current Sensor Primary		Amps
HV Battery Current Sensor Secondary		Amps
HV Battery Current HVBatCrnt		Amps
HV Battery Voltage (cell sum)		Volts
HV Battery Voltage (Module Sum)		Volts
HV Sensor Pack Voltage		Volts
HV Sensor DC Link Voltage		Volts
HV Sensor -main fuse Voltage		Volts
HV Sensor IDCM fuse Voltage		Volts
HV Sensor - Heater fuse Voltage		Volts
Battery Temperature Highest Sensor number		

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Battery Temperature Lowest Sensor number		
HV Cooling Battery coolant inlet temp		°F
HV Cooling Battery coolant outlet temp		°F
BPCM temperature max		°F
BPCM temperature min		°F
Vehicle Isolation Impedance (Positive side)		Mega Ohms
Vehicle Isolation Impedance (Negative side)		Mega Ohms
Vehicle Isolation Impedance (Equivalent)		Mega Ohms
Battery Isolation Impedance (Positive side)		Mega Ohms
Battery Isolation Impedance (Negative side)	0.000	Mega Ohms
Battery Isolation Impedance (Equivalent)		Mega Ohms
Cn Pin Open		
Cn Short to SWn		
Auxiliary channel 1 Pin Open		
Auxiliary channel 2 Pin Open		
Measured result difference between Alternative path and Primary path is out of range		
Balancing Swtich Short		
Balancing Swtich Open		
Vaa voltage is out of range		
Level-shift amplifier offset voltage is out of range		
Stuck ADC output bits verification with zero-scale		
Stuck ADC output bits verification with full scale		
Multiplexer Open/Short verification with single HVMUX test current source		
Multiplexer Open/Short verification with both HVMUX test current sources		
Measured result difference between Module voltage and Cell voltage summation		
Vhv Vdcin > Vhvov		
Vhv < Vhvvv		
Die Temperature is over the upper limit		
Scanning for cell information is not complete		
ADC Data Path error		
Packet Error Check		
Power on reset event occurred		
32kHz oscillator frequency is not within +/-5% of its expected value		
Same as Alrtosc1(redundant alert)		
Die Temperature is over the upper limit		
Module number addressing is fail		
Alive counter is not matched to the exepected value		
PEC Bits in Data-check byte error		
Vhv V12 is too low		
Transmit data is not equal to read back data		
Engine Speed	0	rpm

Accelerator position	0.0	%
GPS_Date - Year		Year
GPS Date Month		
GPS_Date - Day		Days
UTC Time Hours		Hours
UTC Time Minutes	0	
UTC Time - Seconds	0	seconds

SNAPSHOT DATA SUMMARY

No Snapshot Data available for

No Snapshot Data available for

No Snapshot Data available for

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TECH 2.0

VEHICLE SCAN REPORT

VEHICLE IDENTIFICATION

ECU SUMMARY INFO

DACTED PUR

ECU	NAME	BUS TYPE	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
TCM						
PCM						
ASBS						
ICS						
TPM						
RFH						
ESM						
DTCM						
ORC						
EPS						
HVAC						
CSWM						
AMP						
IPC						
SCCM						
BCM						
RADIO						
OCM						
BPCM						

6)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	IDENT	SERIAL NUMBER	CVNS
TCM						
PCM						
ASBS						
ICS						
TPM						
RFH						
ESM						
DTCM						
ORC						
EPS						
HVAC						
CSWM						
AMP						
IPC						
SCCM						
BCM						
RADIO						
OCM						
BPCM						
HCP						
AHCP						
ABSO						
SGW						
DPDM						
IDCM						

ECU	DTC CODE	DTC DESCRIPTION	STATUS

SessionID #

RADIO	[REDACTED]
RADIO	
BPCM	

ENVIRONMENTAL DATA SUMMARY

RADIO [REDACTED]

NAME	VALUE	UNITS
DTCTable	[REDACTED]	
TestFailed		
TestFailedThisMonitoringCycle		
Pending DTC		
Confirmed DTC		
Test Not Completed This Monitoring Cycle		
Warning Indicator Requested		
DTCExtendedDataRecordNumber		
Occurance Flag		
Reserved		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Counter		
RDI \$6080		
Event Counter		

RADIO [REDACTED]

NAME	VALUE	UNITS
DTCTable	[REDACTED]	
TestFailed		
TestFailedThisMonitoringCycle		
Pending DTC		
Confirmed DTC		
Test Not Completed This Monitoring Cycle		
Warning Indicator Requested		
DTCExtendedDataRecordNumber		
Occurance Flag		
Reserved		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter	[REDACTED]	
Ignition Counter		
RDI \$6080		

Event Counter

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BPCM

NAME	VALUE	UNITS
DTC		
Test Failed		
Test Failed This Operation Cycle		
Pending DTC		
Confirmed DTC		
Test Not Completed Since Last Clear		
Test Failed Since Last Clear		
Test Not Completed This Operation Cycle		
Warning Indicator Requested		
Occurrence flag		
Original Odometer Value		miles
Most Recent Odometer Value		miles
Frequency Counter		
Ignition Cycle Counter		
FoM - for this DTC (lifetime fails)		events
FoM - for this DTC (lifetime fails counts on pass)		seconds
FoM - for this DTC (lifetime longest fail on pass)		seconds
Battery Total Time Awake		seconds
Key in Ignition		
EPT -WakeUp		
HCP Contactor Command		
Qualified Contactor Command - QCC		
Verified Contactor Command - VCC		
Contactor Status		
Plug in Status		
Balance Mode		
Vehicle Speed		MPH
System (12) Volts at time of fault		Volts
Battery Lifetime AmpHrs of Charge		AHr
Battery Lifetime AmpHrs of DisCharge		AHr
HVIL Status -Vehicle		No Unit
Cycles left to self heal		No Unit
HV Battery Charge Power 2sec		watts
HV Battery Charge Power 10sec		watts
HV Battery Discharge Power 2sec		watts
HV Battery Discharge Power 10sec		watts
Key - DriveRdy (CAN)		
Battery Lifetime Number Of Closes		

SessionID #

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Battery Full AmpHr Capacity	AmpHrs
Battery Cell Voltage Maximum	mV
Battery Cell Voltage Minimum	mV
Battery Cell Voltage Average	mV
Battery Temperature Maximum Module	°F
Battery Temperature Minimum Module	°F
Battery Temperature Average Module	°F
Battery Temperature Number of Failing Sensors	
DTC Extended Data Record Number - All	
DTC Extended Data Record Number - 2	
HV Battery Charge Power 30sec	watts
HV Battery Discharge Power 30sec	watts
Key Position	
SOC	%
HV Bat SOH-R	%
HV Bat SOH-C	%
Cell Impedance Max Discharge	mOhms
Cell Impedance Min Discharge	mOhms
HVIL Status - Battery pack	
HVIL PWM Duty Cycle source - Vehicle	%
HVIL PWM Duty Cycle Sink - Battery	%
HVIL PWM Duty Cycle Source - Battery	%
HVIL PWM Duty Cycle Sink - Battery	%
HVIL PWM Frequency source - Vehicle	Hz
HVIL PWM Frequency Sink - Vehicle	Hz
HVIL PWM Frequency Source - Battery	Hz
HVIL PWM Frequency Sink - Battery	Hz
HVIL Returned current - Vehicle	mA
HVIL Returned current - Battery	mA
Battery Cell Highest Cell number	
Battery Cell Lowest Cell number	
HV Battery Current Sensor Primary	Amps
HV Battery Current Sensor Secondary	Amps
HV Battery Current HVBatCrnt	Amps
HV Battery Voltage (cell sum)	Volts
HV Battery Voltage (Module Sum)	Volts
HV Sensor-Pack Voltage	Volts
HV Sensor-DC Link Voltage	Volts
HV Sensor-main fuse Voltage	Volts
HV Sensor-IDCM fuse Voltage	Volts
HV Sensor- Heater fuse Voltage	Volts
Battery Temperature Highest Sensor number	

Battery Temperature Lowest Sensor number	
HV Cooling Battery coolant inlet temp	°F
HV Cooling Battery coolant outlet temp	°F
BPCM temperature max	°F
BPCM temperature min	°F
Vehicle Isolation Impedance (Positive side)	Mega Ohms
Vehicle Isolation Impedance (Negative side)	Mega Ohms
Vehicle Isolation Impedance (Equivalent)	Mega Ohms
Battery Isolation Impedance (Positive side)	Mega Ohms
Battery Isolation Impedance (Negative side)	Mega Ohms
Battery Isolation Impedance (Equivalent)	Mega Ohms
Cn Pin Open	
Cn Short to SWn	
Auxiliary channel 1 Pin Open	
Auxiliary channel 2 Pin Open	
Measured result difference between Alternative path and Primary path is out of range	
Balancing Swtich Short	
Balancing Swtich Open	
Alternate reference voltage is out of range	
Vaa voltage is out of range	
Level-shift amplifier offset voltage is out of range	
Stuck ADC output bits verification with zero-scale	
Stuck ADC output bits verification with full-scale	
Multiplexer Open/Short verification with single HVMUX test current source	
Multiplexer Open/Short verification with both HVMUX test current sources	
Measured result difference between Module voltage and Cell voltage summation	
$V_{hv} - V_{dcin} > V_{hvov}$	
$V_{hv} < V_{hvuv}$	
Die Temperature is over the upper limit	
Scanning for cell information is not complete	
ADC Data Path error	
Packet Error Check	
Power-on reset event occurred	
32kHz oscillator frequency is not within +/-5% of its expected value	
Same as Alrtosc1(redundant alert)	
Die Temperature is over the upper limit	
Module number addressing is fail	
Alive counter is not matched to the expected value	
PEC Bits in Data-check byte error	
$V_{hv} - V_{12}$ is too low	
Transmit data is not equal to read back data	
Engine Speed	rpm

Accelerator position		%
GPS_Date - Year		Year
GPS_Date - Month		
GPS_Date - Day		Days
UTC_Time - Hours		Hours
UTC_Time - Minutes		
UTC_Time - Seconds		seconds

SNAPSHOT DATA SUMMARY



PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552 (B) (6)

