

# Diagnosis Report

2023-05-22 22:07

## Vehicle Information

Vehicle Name

: 2017\_Sierra

Year: 2017

VIN: 3GTU2NECXHG229174

Mileage : 171937km

SN: A30M-105858

Diagnosis Route

: GMC->Sierra->2017

## Engine Control Module(ECM)

### Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Engine Speed	55 556 552 545 549 557 553 554 528 548 55	612	500	rpm
2	Cylinder 1 Current Misfire Counter	0			count
3	Cylinder 2 Current Misfire Counter	0			count
4	Cylinder 3 Current Misfire Counter	0			count
5	Cylinder 4 Current Misfire Counter	0			count
6	Cylinder 5 Current Misfire Counter	0			count
7	Cylinder 6 Current Misfire Counter	0			count
8	Cylinder 7 Current Misfire Counter	0			count
9	Cylinder 8 Current Misfire Counter	0			count
10	Vehicle Speed Sensor	0			mph
11	MIL Requested by DTC	No			
12	Cylinder 1 History Misfire Counter	0			count
13	Cylinder 2 History Misfire Counter	0			count
14	Cylinder 3 History Misfire Counter	0			count
15	Cylinder 4 History Misfire Counter	0			count
16	Cylinder 5 History Misfire Counter	0			count
17	Cylinder 6 History Misfire Counter	0			count
18	Cylinder 7 History Misfire Counter	0			count
19	Cylinder 8 History Misfire Counter	0			count
20	Cycles of Misfire Data	71 58	64	52	count
21	Total Misfire	0			count
22	Misfire Diagnostic Engine Speed	553	608	498	rpm
23	Misfire Diagnostic Engine Load	7.8	8.6	7.0	%
24	Cylinder 1 Injector Disabled - Misfire Detected	No			
25	Cylinder 2 Injector Disabled - Misfire Detected	No			
26	Cylinder 3 Injector Disabled - Misfire Detected	No			
27	Cylinder 4 Injector Disabled - Misfire Detected	No			
28	Cylinder 5 Injector Disabled - Misfire Detected	No			
29	Cylinder 6 Injector Disabled - Misfire Detected	No			
30	Cylinder 7 Injector Disabled - Misfire Detected	No			
31	Cylinder 8 Injector Disabled - Misfire Detected	No			
32	ECT Sensor	179.6	197.6	161.6	deg F
33	IAT Sensor	131.0 129.2	144.1	117.9	deg F
34	MAF Sensor	[4.49 4.60 4.69 4.59 4.63 4.73 4.72 4.64 4.74	5.14	4.20	g/s
35	Calculated Air Flow	4.73 4.56 4.60 4.48 4.70 4.68 4.67	5.20	4.26	g/s
36	Engine Load	14.5 14.1 13.7 14.9	16.0	13.0	%
37	Accelerator Pedal Position	0	0	0	%
38	Throttle Position	4	4	4	%
39	MAP Sensor	4.6 4.5	5.1	4.1	psi
40	Intake Manifold Pressure	4.6 4.5	5.1	4.1	psi
41	Ignition Timing	11.5 10.0 9.5 9.0 13.0 14.5 12.5 10.5 11.0	13.8	11.3	deg
42	Engine Oil Pressure	31.32 30.74 29.58 28.42 31.90	34.45	28.19	psi

43	Engine Oil Absolute Pressure Sensor	45.82 42.92 44.66 44.08 43.50 45.24	47.85	39.15	psi
44	Engine Oil Pressure Control Solenoid Valve Command	On			
45	Engine Oil Pressure Switch	ok			
46	Injector Duty Cycle Bank 1	1.12 1.09 1.11 1.14 1.08	1.23	1.01	ms
47	Injector Duty Cycle Bank 2	1.20 1.19 1.14 1.16 1.17	1.28	1.04	ms
48	Cylinder 1 Injector Control Circuit Status	ok Not Run			
49	Cylinder 2 Injector Control Circuit Status	Not Run ok			
50	Cylinder 3 Injector Control Circuit Status	ok Not Run			
51	Cylinder 4 Injector Control Circuit Status	ok Not Run			
52	Cylinder 5 Injector Control Circuit Status	ok Not Run			
53	Cylinder 6 Injector Control Circuit Status	Not Run			
54	Cylinder 7 Injector Control Circuit Status	ok			
55	Cylinder 8 Injector Control Circuit Status	Not Run			
56	Ignition Coil Supply Voltage Bank 1	On			
57	Ignition Coil Supply Voltage Bank 2	On			
58	Ignition Coil 1 Control Circuit Low Voltage Test Status	Not Run ok			
59	Ignition Coil 1 Control Circuit Open Test Status	Not Run ok			
60	Ignition Coil 1 Control Circuit High Voltage Test Status	Not Run ok			
61	Ignition Coil 2 Control Circuit Low Voltage Test Status	ok Not Run			
62	Ignition Coil 2 Control Circuit Open Test Status	ok Not Run			
63	Ignition Coil 2 Control Circuit High Voltage Test Status	ok Not Run			
64	Ignition Coil 3 Control Circuit Low Voltage Test Status	Not Run ok			
65	Ignition Coil 3 Control Circuit Open Test Status	Not Run ok			
66	Ignition Coil 3 Control Circuit High Voltage Test Status	Not Run ok			
67	Ignition Coil 4 Control Circuit Low Voltage Test Status	ok Not Run			
68	Ignition Coil 4 Control Circuit Open Test Status	ok Not Run			
69	Ignition Coil 4 Control Circuit High Voltage Test Status	ok Not Run			
70	Ignition Coil 5 Control Circuit Low Voltage Test Status	ok Not Run			
71	Ignition Coil 5 Control Circuit Open Test Status	ok Not Run			
72	Ignition Coil 5 Control Circuit High Voltage Test Status	ok Not Run			
73	Ignition Coil 6 Control Circuit Low Voltage Test Status	ok			
74	Ignition Coil 6 Control Circuit Open Test Status	ok			
75	Ignition Coil 6 Control Circuit High Voltage Test Status	ok			
76	Ignition Coil 7 Control Circuit Low Voltage	ok			
77	Ignition Coil 7 Control Circuit Open Test Status	ok			
78	Ignition Coil 7 Control Circuit High Voltage	ok			
79	Ignition Coil 8 Control Circuit Low Voltage Test Status	Not Run ok			
80	Ignition Coil 8 Control Circuit Open Test Status	Not Run ok			
81	Ignition Coil 8 Control Circuit High Voltage Test Status	Not Run ok			
82	Camshaft Position Sensor	554 546 544 561 548	617	505	rpm
83	Fuel Pressure Sensor	50.02 50.46 50.89 52.20	55.02	45.02	psi
84	Fuel Rail Pressure Sensor	710.7			psi
85	Remaining Fuel in Tank	10.2	11.2	9.2	%
86	Power Enrichment	Inactive			
87	Calculated Catalyst Temperature Bank 1	719.60 717.80	791.56	647.64	deg F
88	Calculated Catalyst Temperature Bank 2	680.00 678.20	748.00	612.00	deg F
89	Ignition 1 Signal	13.10 13.12 13.15 13.07 13.05 13.20	14.43	11.81	V
90	A/C Compressor Operation	Allowed			
91	A/C Compressor Clutch Relay Command	On			
92	Engine Run Time	21\n00:33:25\n00:33:29\n00:33:33\n00:3:			HHMMSS
93	Reduced Engine Power	Inactive			
94	APP Sensors	0	0	0	%
95	Desired Throttle Position	4	4	4	%
96	APP Sensor 1 and 2	Agree			

97	Throttle Position Sensors 1 and 2	Agree			
98	APP Sensor 1	1.00	1.10	0.90	V
99	APP Sensor 2	0.47	0.52	0.42	V
100	APP Sensor 1 Position	0	0	0	%
101	APP Sensor 2 Position	0	0	0	%
102	APP Sensor 1 Learned Released Position	1.00	1.10	0.90	V
103	APP Sensor 2 Learned Released Position	0.47			V
104	APP Sensor 1 Learned Applied Position	78			%
105	APP Sensor 2 Learned Applied Position	78			%
106	Throttle Position Sensor 1	4.35			V
107	Throttle Position Sensor 2	0.65			V
108	Throttle Position Sensor 1 Position	4			%
109	Throttle Position Sensor 2 Position	4			%
110	Throttle Position Sensor 1 Learned Minimum	0.49			V
111	Throttle Position Sensor 2 Learned Minimum	0.49			V
112	Throttle Body Idle Air Flow Compensation	0			%
113	APP Sensor 1 Circuit Status	ok			
114	APP Sensor 2 Circuit Status	ok			
115	5V Reference 1	5.01	5.51	4.51	V
116	5V Reference 2	5.01	5.51	4.51	V
117	5V Reference 3	5.01	5.51	4.51	V
118	5V Reference 4	5.01	5.51	4.51	V
119	5V Reference 1 Circuit Status	ok			
120	5V Reference 2 Circuit Status	ok			
121	5V Reference 3 Circuit Status	ok			
122	5V Reference 4 Circuit Status	ok			
123	Throttle Position Performance Test	ok			
124	MAP Performance Test 1	ok			
125	MAP Performance Test 2	ok			
126	MAF Performance Test	ok			
127	TAC Motor	Enabled			
128	TAC Forced Engine Shutdown	No			
129	TAC Motor Command	22			%
130	Cruise Control	Disabled			
131	Brake Pedal Position Circuit Signal	Released			
132	Brake Pedal Position Sensor Signal	Released			
133	Brake Pedal Position Sensor	0			%
134	Desired Idle Speed	544	598	490	rpm
135	Ignition Accessory Signal	On			
136	Engine Controls Ignition Relay Command	On			
137	Engine Controls Ignition Relay Feedback Signal	12.9 12.7	14.0	11.4	V
138	Engine Controls Ignition Relay Control Circuit Low Voltage Test Status	Not Run			
139	Engine Controls Ignition Relay Control Circuit Open Test Status	Not Run			
140	Engine Controls Ignition Relay Control Circuit High Voltage Test Status	ok			
141	Traction Control Status	Inactive			
142	Engine Drag Control Status	Inactive			
143	Reduced Engine Power History	None			
144	Remaining Fuel in Tank	2.2	2.4	2.0	gal
145	Fuel Level Sensor	2.37	2.61	2.13	V
146	Fuel Economy	1.0 1.5	1.7	1.3	L/h
147	Engine Oil Level Switch	ok			
148	Engine Oil Pressure Control Test Counter	0			count
149	Low Engine Oil Pressure Indicator Command	Off			
150	Engine Oil Life Remaining	99			%

151	Calculated Engine Oil Temperature	163.4			deg F
152	Ambient Air Temperature	102.2	112.4	92.0	deg F
153	Crankshaft Position Signal Output Circuit Low Voltage Test Status	ok			
154	Crankshaft Position Signal Output Circuit Open Test Status	Not Run			
155	Crankshaft Position Signal Output Circuit High Voltage Test Status	Not Run			
156	Camshaft Position Signal Output Circuit Low Voltage Test Status	ok			
157	Camshaft Position Signal Output Circuit Open Test Status	Not Run			
158	Camshaft Position Signal Output Circuit High Voltage Test Status	Not Run			
159	MIL Command	Off			
160	MIL Control Circuit Low Voltage Test Status	ok			
161	MIL Control Circuit Open Test Status	ok			
162	MIL Control Circuit High Voltage Test Status	Not Run			
163	Generator Indicator Command	Off			
164	Redundant Odometer Memory	Present			
165	Front Axle Engagement Feedback Switch	Engaged			
166	BARO	14.5	16.0	13.0	psi
167	BARO Sensor	3.92	4.31	3.53	V
168	Calculated BARO	14.64	16.10	13.18	psi
169	Specific Humidity	1.65	1.82	1.48	%
170	Intake Air Humidity Sensor	20 21	23	19	%
171	Intake Air Humidity Sensor	240	264	216	Hz
172	MAP Sensor	1.25 1.23	1.38	1.13	V
173	MAF Sensor	1878 1880	2066	1690	Hz
174	Start-Up IAT	131.0			deg F
175	IAT Sensor 2	152.6	167.9	137.3	deg F
176	Fuel Rail Temperature Sensor 1	-40.00			deg F
177	Fuel Rail Temperature Sensor 2	-40.00			deg F
178	HO2S Bank 1 Sensor 1	0.09 0.07 0.08	0.10	0.08	V
179	HO2S Bank 2 Sensor 1	0.65 0.63 0.76 0.81 0.09 0.75	0.71	0.58	V
180	Air/Fuel Equivalence Ratio Command	1.00	1.10	0.90	
181	Crankshaft Position Resync Counter	5	6	5	count
182	Crankshaft Position Active Counter	142 254	279	229	count
183	Crankshaft Position Sensor	555 551 563	619	507	rpm
184	Knock Retard	0	0	0	deg
185	Total Knock Retard	0			deg
186	Torque Management Ignition Timing Retard	20.8 19.4 19.1			deg
187	Cylinder 1 Knock Detected	No			
188	Cylinder 2 Knock Detected	No			
189	Cylinder 3 Knock Detected	No			
190	Cylinder 4 Knock Detected	No			
191	Cylinder 5 Knock Detected	No			
192	Cylinder 6 Knock Detected	No			
193	Cylinder 7 Knock Detected	No			
194	Cylinder 8 Knock Detected	No			
195	Fuel Control Loop Status	Closed			
196	HO2S Bank 1 Sensor 2	0.76 0.75	0.83	0.67	V
197	HO2S Bank 2 Sensor 2	0.75	0.83	0.67	V
198	HO2S Heater Command Bank 1 Sensor 1	54	59	49	%
199	HO2S Heater Command Bank 1 Sensor 1	On			
200	HO2S Heater Command Bank 1 Sensor 2	87	96	78	%
201	HO2S Heater Command Bank 1 Sensor 2	On			
202	HO2S Heater Command Bank 2 Sensor 1	53			%
203	HO2S Heater Command Bank 2 Sensor 1	On			
204	HO2S Heater Command Bank 2 Sensor 2	83			%

205	HO2S Heater Command Bank 2 Sensor 2	On		
206	HO2S Heater Control Circuit Low Voltage Bank 1 Sensor 1	ok		
207	HO2S Heater Control Circuit Open Test Status Bank 1 Sensor 1	ok		
208	HO2S Heater Control Circuit High Voltage Test Status Bank 1 Sensor 1	ok		
209	HO2S Heater Control Circuit Low Voltage Bank 1 Sensor 2	ok		
210	HO2S Heater Control Circuit Open Test Status Bank 1 Sensor 2	ok		
211	HO2S Heater Control Circuit High Voltage Test Status Bank 1 Sensor 2	ok		
212	HO2S Heater Control Circuit Low Voltage Bank 2 Sensor 1	ok		
213	HO2S Heater Control Circuit Open Test Status Bank 2 Sensor 1	ok		
214	HO2S Heater Control Circuit High Voltage Test Status Bank 2 Sensor 1	ok		
215	HO2S Heater Control Circuit Low Voltage Bank 2 Sensor 2	ok		
216	HO2S Heater Control Circuit Open Test Status Bank 2 Sensor 2	ok		
217	HO2S Heater Control Circuit High Voltage Test Status Bank 2 Sensor 2	ok		
218	HO2S Heater Bank 1 Sensor 1	1.12		mA
219	HO2S Heater Bank 1 Sensor 2	0.94		mA
220	HO2S Heater Bank 2 Sensor 1	1.12		mA
221	HO2S Heater Bank 2 Sensor 2	0.94		mA
222	Short Term Fuel Trim Bank 1	1 2	2	2%
223	Short Term Fuel Trim Bank 2	2 1	1	1%
224	Long Term Fuel Trim Bank 1	5 1 2	2	2%
225	Long Term Fuel Trim Bank 2	9 5 7	8	6%
226	Fuel Enrichment - Hot Coolant	Inactive		
227	Fuel Enrichment - Hot Catalyst	Inactive		
228	Deceleration Fuel Cut-Off	Inactive		
229	EVAP Purge Solenoid Valve Command	23 10 12 13 14	11	9%
230	Start-Up ECT	174.2		deg F
231	Engine Off Time	00:00:54\n		HHMMSS
232	Fuel Trim Learn	Enabled		
233	Fuel Trim Memory Cell	6	7	5
234	Fuel Trim System Test State	Running		
235	Short Term Fuel Trim Test Average Bank 1	1	1	1%
236	Long Term Fuel Trim Test Average Bank 1	2	2	2%
237	Short Term Fuel Trim Test Average Bank 2	1		%
238	Long Term Fuel Trim Test Average Bank 2	7		%
239	Long Term Fuel Trim Test Average without Purge Bank 1	0		%
240	Long Term Fuel Trim Test Average without Purge Bank 2	0		%
241	Fuel Volatility	Low		
242	Fuel Alcohol Content	10	11	9%
243	Fuel Composition Learn	Inactive		
244	Fuel Composition Sensor	0	0	0 Hz
245	Ignition On/Start Circuit Source Bypass Relay Command	*		
246	Ignition On/Start Circuit Source Bypass Relay Control Circuit Low Voltage Test Status	ok		
247	Ignition On/Start Circuit Source Bypass Relay Control Circuit Open Test Status	ok		
248	Ignition On/Start Circuit Source Bypass Relay Control Circuit High Voltage Test Status	Not Run		
249	Fuel Pump Enable Command	On		
250	Fuel Pump Command	52 53	58	48%
251	Fuel Pump Enable Circuit Low Voltage Test Status	ok		
252	Fuel Pump Enable Circuit Open Test Status	Not Run		
253	Fuel Pump Enable Circuit High Voltage Test Status	Not Run		
254	Initialized Fuel Alcohol Content	9.8	10.8	8.8%
255	Fuel Pressure Regulator Control Circuit Command	On		
256	Fuel Pressure Regulator Control Circuit Low Voltage Test Status	ok		
257	Fuel Pressure Regulator Control Circuit Open Test Status	ok		
258	Fuel Pressure Regulator Control Circuit High Voltage Test Status	ok		

259	Fuel Pressure Regulator High Control Circuit Command	31			%
260	Fuel Pressure Regulator High Control Circuit Command	On			
261	Fuel Pressure Regulator High Control Circuit Low Voltage Test Status	ok			
262	Fuel Pressure Regulator High Control Circuit Open Test Status	ok			
263	Fuel Pressure Regulator High Control Circuit High Voltage Test Status	ok			
264	Fuel Pressure Sensor	2.5 2.6	2.9	2.3	V
265	Desired Fuel Pressure	50.89	55.98	45.80	psi
266	Desired Fuel Rail Pressure	710.7	781.8	639.6	psi
267	Fuel Rail Pressure Sensor 1	710.7	797.7	652.7	psi
268	Fuel Rail Pressure Sensor 1	710 650	781	639	count
269	Fuel Rail Pressure Sensor 2	812.2 725.2	893.4	731.0	psi
270	Fuel Rail Pressure Sensor 2	709 654	780	638	count
271	Fuel Rail Pressure Sensor Learned Value	0	0	0	psi
272	Fuel Rail Pressure Sensor Initial Learn	Incomplete			
273	Fuel Rail Pressure Sensor Learn	Inactive			
274	Start-Up IAT Sensor 1	131.0	144.1	117.9	deg F
275	Fuel Tank Pressure Sensor	-1.00 -0.25 -0.39			in.H2O
276	Fuel Injector Driver Supply Voltage	65.0	71.5	58.5	V
277	Catalyst Monitor Not At Idle Test Conditions Met	No			
278	Catalyst Monitor Test State	Inactive			
279	Catalyst Monitor Test Counter Bank 1	0	0	0	count
280	Catalyst Monitor Test Counter Bank 2	0	0	0	count
281	Catalyst Monitor Test Result Bank 1	No Decision			
282	Catalyst Monitor Test Result Bank 2	No Decision			
283	EVAP Vent Solenoid Valve Command	Venting			
284	EVAP Vent Solenoid Valve Control Circuit Low Voltage Test Status	ok			
285	EVAP Vent Solenoid Valve Control Circuit Open Test Status	ok			
286	EVAP Vent Solenoid Valve Control Circuit High Voltage Test Status	Not Run			
287	EVAP Purge Solenoid Valve Control Circuit Low Voltage Test Status	ok			
288	EVAP Purge Solenoid Valve Control Circuit Open Test Status	ok			
289	EVAP Purge Solenoid Valve Control Circuit High Voltage Test Status	ok			
290	Fuel Tank Rated Capacity	21.6			gal
291	Fuel Tank Pressure Sensor	1.45			V
292	Cold Start-Up	No			
293	EVAP Malfunction History	UNRECOGNIZED STATE			
294	Extended Travel Brake Pedal Position Signal	Released			
295	Drag Control Status	Inactive			
296	Driver Requested Axle Torque	-389.664 -284.130			lb-ft
297	Torque Delivered Signal	-16.42 -13.84 -10.15 -10.52			lb-ft
298	Camshaft Position Variance	0			deg
299	Camshaft Position Active Counter	87 39	96	78	count
300	Engine Oil Pressure Control Solenoid Valve Control Circuit Low Voltage Test Status	Not Run			
301	Engine Oil Pressure Control Solenoid Valve Control Circuit Open Test Status	Not Run			
302	Engine Oil Pressure Control Solenoid Valve Control Circuit High Voltage Test Status	ok			
303	Cylinder 1 Deactivation Solenoid Valve Command	Off			
304	Cylinder 4 Deactivation Solenoid Valve Command	Off			
305	Cylinder 6 Deactivation Solenoid Valve Command	Off			
306	Cylinder 7 Deactivation Solenoid Valve Command	Off			
307	Power Mode	Run			
308	Crank Request Signal	No			
309	Remote Vehicle Start Request Signal	Off			
310	Starter Relay	Off			
311	Starter Relay Control Circuit Low Voltage Test Status	Not Run			
312	Starter Relay Control Circuit Open Test Status	ok			

313	Starter Relay Control Circuit High Voltage Test Status	ok
314	Park/Neutral Position Switch	Park/Neutral
315	TCC/Cruise Control Brake Pedal Switch	Released
316	Generator F-Terminal Signal	36.9%
317	Generator L-Terminal Signal Command	On
318	Generator L-Terminal Command	49.4%
319	Generator L-Terminal Circuit Low Voltage Test Status	ok
320	Generator L-Terminal Circuit Open Test Status	Not Run
321	Generator L-Terminal Circuit High Voltage Test Status	ok
322	Electric Power Management Inhibit Reason	None
323	Immobilizer System Status	Release State
324	ECM Response Source	Ignition Switch Start
325	ECM Challenge Status	Invalid
326	ECM Authentication Status	Valid
327	Immobilizer Valid Response Received Time	60ms
328	Immobilizer Password Learn	Inactive
329	Immobilizer Password Learn Scan Tool Delay	Inactive
330	Immobilizer Security Code Function	Present
331	Immobilizer Security Code Accepted	No
332	Immobilizer Security Code Programmed	Yes
333	Immobilizer Security Code Lockout Active Timer	0ms
334	Immobilizer Security Code Programming Counter	1count
335	Immobilizer Security Code Reset Counter	0count
336	Immobilizer Security Information Programmed	Yes
337	Immobilizer Automatic Learn Timer	0sec
338	Immobilizer Auto Learn Counter	0
339	VIN Programming Counter	1
340	Remote Vehicle Start Disable History 1	None
341	Remote Vehicle Start Disable History 2	None
342	Remote Vehicle Start Disable History 3	None
343	Remote Vehicle Start Disable History 4	None
344	Remote Vehicle Start Disable History 5	None
345	Remote Vehicle Start Disable History 6	None
346	Remote Vehicle Start Disable History 7	None
347	Remote Vehicle Start Disable History 8	None
348	Fuel Economy Mode	Inactive
349	Cylinder Deactivation System Command	Inactive
350	Cylinder 1 Deactivation Solenoid Valve Control Circuit Low Voltage Test Status	Malfunction
351	Cylinder 1 Deactivation Solenoid Valve Control Circuit Open Test Status	Malfunction
352	Cylinder 1 Deactivation Solenoid Valve Control Circuit High Voltage Test Status	Malfunction
353	Cylinder 4 Deactivation Solenoid Valve Control Circuit Low Voltage Test Status	Malfunction
354	Cylinder 4 Deactivation Solenoid Valve Control Circuit Open Test Status	Malfunction
355	Cylinder 4 Deactivation Solenoid Valve Control Circuit High Voltage Test Status	Malfunction
356	Cylinder 6 Deactivation Solenoid Valve Control Circuit Low Voltage Test Status	Malfunction
357	Cylinder 6 Deactivation Solenoid Valve Control Circuit Open Test Status	Malfunction
358	Cylinder 6 Deactivation Solenoid Valve Control Circuit High Voltage Test Status	Malfunction
359	Cylinder 7 Deactivation Solenoid Valve Control Circuit Low Voltage Test Status	Malfunction
360	Cylinder 7 Deactivation Solenoid Valve Control Circuit Open Test Status	Malfunction
361	Cylinder 7 Deactivation Solenoid Valve Control Circuit High Voltage Test Status	Malfunction
362	Cylinder Deactivation Cycles	0count
363	Distance with Cylinder Deactivated	0mile
364	Distance with Cylinder Activated	0mile
365	Cylinder Deactivation Performance Test	ok
366	Cylinder Deactivation Disable History 1	None

367	Cylinder Deactivation Disable History 2	None
368	Cylinder Deactivation Disable History 3	None
369	Cylinder Deactivation Disable History 4	None
370	Cylinder Deactivation Disable History 5	None
371	Cylinder Deactivation Disable History 6	None
372	Cylinder Deactivation Disable History 7	None
373	Cylinder Deactivation Disable History 8	None
374	Cylinder Deactivation Inhibit - A/C Compressor Clutch On	No
375	Cylinder Deactivation Inhibit - Acceleration Request	No
376	Cylinder Deactivation Inhibit - APP High	No
377	Cylinder Deactivation Inhibit - APP Rate High	No
378	Cylinder Deactivation Inhibit - Axle Torque Limiting	No
379	Cylinder Deactivation Inhibit - Brake Booster Pressure Sensor DTC	No
380	Cylinder Deactivation Inhibit - Calculated Torque	No
381	Cylinder Deactivation Inhibit - Crankshaft Position Sensor DTC	No
382	Cylinder Deactivation Inhibit - Camshaft Position Sensor DTC	No
383	Cylinder Deactivation Inhibit - Cylinder Deactivation Solenoid Valve DTC	No
384	Cylinder Deactivation Inhibit - Cylinder Deactivation System DTC	No
385	Cylinder Deactivation Inhibit - Deceleration Fuel Cut-Off	No
386	Cylinder Deactivation Inhibit - Scan Tool Override	No
387	Cylinder Deactivation Inhibit - Engine Controls Ignition Relay DTC	No
388	Cylinder Deactivation Inhibit - ECT	No
389	Cylinder Deactivation Inhibit - ECT Sensor DTC	No
390	Cylinder Deactivation Inhibit - Engine Oil Temperature	No
391	Cylinder Deactivation Inhibit - Engine Overtemperature Protection	No
392	Cylinder Deactivation Inhibit - Engine Speed	No
393	Cylinder Deactivation Inhibit - Engine Oil Pressure	No
394	Cylinder Deactivation Inhibit - Engine Oil Pressure Sensor DTC	No
395	Cylinder Deactivation Inhibit - Fuel Alcohol Content Too High	No
396	Cylinder Deactivation Inhibit - Fuel Alcohol Content Learn In Progress	No
397	Cylinder Deactivation Inhibit - Heater Performance	No
398	Cylinder Deactivation Inhibit - HO2S 2 Test	No
399	Cylinder Deactivation Inhibit - Hot Coolant Mode	No
400	Cylinder Deactivation Inhibit - IAT Sensor DTC	No
401	Cylinder Deactivation Inhibit - Ignition Voltage	No
402	Cylinder Deactivation Inhibit - Injector Stable Time	No
403	Cylinder Deactivation Inhibit - Brake Booster Weak Vacuum	No
404	Cylinder Deactivation Inhibit - Vehicle Speed Too Low	No
405	Cylinder Deactivation Inhibit - Intake Manifold Weak Vacuum	No
406	Cylinder Deactivation Inhibit - MAP Sensor DTC	No
407	Cylinder Deactivation Inhibit - Maximum Throttle Exceeded	No
408	Cylinder Deactivation Inhibit - Maximum Deactivation Time Exceeded	No
409	Cylinder Deactivation Inhibit - Minimum Time After TAC DTC	No
410	Cylinder Deactivation Inhibit - Minimum Time On All Cylinders	No
411	Cylinder Deactivation Inhibit - Misfire DTC	No
412	Cylinder Deactivation Inhibit - Oil Aeration	No
413	Cylinder Deactivation Inhibit - Piston Protection	No
414	Cylinder Deactivation Inhibit - RPM Limit	No
415	Cylinder Deactivation Inhibit - TAC System DTC	No
416	Cylinder Deactivation Inhibit - Torque Reduction	No
417	Cylinder Deactivation Inhibit - Transmission Gear	No
418	Cylinder Deactivation Inhibit - Transmission Range	No
419	Cylinder Deactivation Inhibit - Transmission Shifting	No
420	Cylinder Deactivation Inhibit - Catalyst Overtemperature Protection	No



421	Cylinder Deactivation Inhibit - Catalyst Temperature Low	No			
422	Cylinder Deactivation Inhibit - VSS DTC	No			
423	Cruise Control On/Off Switch	Off			
424	Cruise Control Set/Coast Switch	Off			
425	Cruise Control Resume/Accelerate Switch	Off			
426	Cruise Control Cancel Switch	Inactive			
427	Cruise Control Switch	Active			
428	Brake Pedal Position Sensor	1.10			V
429	Brake Pedal Position Sensor Learned Released Position	1.10			V
430	Brake Pedal Position Sensor Fully Released Learn Status	Complete			
431	Cruise Control Inhibit Reason	Vehicle Speed Too Low			
432	Cruise Control Disengage History 1	Coast Mode			
433	Cruise Control Disengage History 2	None			
434	Cruise Control Disengage History 3	None			
435	Cruise Control Disengage History 4	None			
436	Cruise Control Disengage History 5	None			
437	Cruise Control Disengage History 6	None			
438	Cruise Control Disengage History 7	None			
439	Cruise Control Disengage History 8	None			
440	Radiator Coolant Temperature Sensor	32	35	29	deg F
441	Cooling Fan Command	33	36	30	%
442	Active Grille Air Shutter Position	100	110	90	%
443	Active Grille Air Shutter Position Command	100	110	90	%
444	A/C Request Signal	Yes			
445	A/C Compressor Clutch Relay Control Circuit Low Voltage Test Status	Not Run			
446	A/C Compressor Clutch Relay Control Circuit Open Test Status	Not Run			
447	A/C Compressor Clutch Relay Control Circuit High Voltage Test Status	ok			
448	A/C High Side Pressure Sensor	154.280			psi
449	A/C High Side Pressure Sensor	1.72			V
450	A/C Off for WOT	No			
451	A/C Disabled - A/C Pressure Out of Range	No			
452	Ambient Humidity	13			%
453	A/C Disengage History 1	Battery Voltage Out of Range			
454	A/C Disengage History 2	Engine Stall Prevention			
455	A/C Disengage History 3	Battery Voltage Out of Range			
456	A/C Disengage History 4	Engine Stall Prevention			
457	A/C Disengage History 5	Battery Voltage Out of Range			
458	A/C Disengage History 6	Engine Coolant Temperature Too High			
459	A/C Disengage History 7	Battery Voltage Out of Range			
460	A/C Disengage History 8	Engine Stall Prevention			
461	Camshaft Position Command	0	0	0	%
462	Intake Camshaft Position Actuator Solenoid Valve	Off			
463	Camshaft Position Actuator Solenoid Valve Control Circuit Low Voltage Test Status	Not Run			
464	Camshaft Position Actuator Solenoid Valve Control Circuit Open Test Status	ok			
465	Camshaft Position Actuator Solenoid Valve Control Circuit High Voltage Test Status	ok			
466	Camshaft Position Sensor	0	0	0	deg
467	Desired Intake Camshaft Position	0	0	0	deg
468	Transmission Range Sensor 2	0	0	0	%
469	Torque Request Inhibit - Fuel	No			
470	Torque Request Inhibit - Minimum Idle	No			
471	Torque Request Inhibit - Minimum Torque	No			
472	Torque Request Inhibit - Ignition Timing Advance	No			
473	Torque Request Inhibit - Ignition Timing	No			
474	Torque Request Inhibit - TAC Limit	No			

475	Torque Request Inhibit - TAC	No	
476	Transmission Fluid Temperature	131.0	deg F
477	Output Shaft Speed Sensor	0	rpm
478	Transfer Case OSS	0	rpm
479	Warm-Ups Since DTC Cleared	0	count
480	Warm-Ups without Emission Malfunctions	0	count
481	Warm-Ups without Non-Emission Malfunctions	0	count
482	Distance Since DTC Cleared	0	mile

Transmission Control Module(TCM)

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Engine Torque	-11.81 -12.55 -11.07			lb-ft
2	Driver Requested Axle Torque	16925.2920	18617.8223	15232.7637	lb-ft
3	Calculated Throttle Position	0	0	0	%
4	Engine Speed	552 555 545 557 551	611	500	rpm
5	Transmission Input Speed	507 513 503	558	456	rpm
6	Transmission Intermediate Speed Sensor	0	0	0	rpm
7	Transmission OSS	0	0	0	rpm
8	ISS/OSS Supply Voltage	ok			
9	Vehicle Speed Sensor	0	0	0	mph
10	Gear Command	1			
11	Gear Ratio	8.00:1			
12	Driver Shift Control Mode	Inactive			
13	Up and Down Shift Switch	Inactive			
14	Internal Mode Switch	Park			
15	Internal Mode Switch A/B/C/P/S	Low High Low High High			
16	Internal Mode Switch A	1.92 1.90			V
17	Internal Mode Switch A Status	Valid			
18	Internal Mode Switch B	0.80			V
19	Internal Mode Switch B Status	Valid			
20	Internal Mode Switch C	1.84			V
21	Internal Mode Switch C Status	Valid			
22	Internal Mode Switch P	0.80			V
23	Internal Mode Switch P Status	Valid			
24	Internal Mode Switch S	0.80			V
25	Internal Mode Switch S Status	Valid			
26	Engine Coolant Temperature	177.8 179.6			deg F
27	Transmission Fluid Temperature	132.8 134.6			deg F
28	Transmission Hot Mode	No			
29	Calculated Line Pressure	87.00	95.70	78.30	psi
30	Last Shift Time	0.00			sec
31	Transmission Control Solenoid Valve 1 Current	0.05	0.06	0.04	A
32	Transmission Control Solenoid Valve 2 Current	1.12	1.23	1.01	A
33	Transmission Control Solenoid Valve 3 Current	0.07	0.08	0.06	A
34	Transmission Control Solenoid Valve 4 Current	1.15	1.26	1.03	A
35	Transmission Control Solenoid Valve 5 Current	1.15	1.26	1.03	A
36	Transmission Control Solenoid Valve 6 Current	0.85	0.94	0.76	A
37	Transmission Control Solenoid Valve 7 Current	0.09	0.10	0.08	A
38	Transmission Control Solenoid Valve 8	Off			
39	Transmission Control Solenoid Valve 9	Off			
40	TCC Pressure Control Solenoid Valve Command	0.00			psi
41	TCC Slip Speed	41 43 35 40	47	39	rpm
42	Tow/Haul Mode	Inactive			

43	Power Mode	Run			
44	Ignition Accessory Signal	On			
45	Ignition 1 Signal	On			
46	Ignition Voltage	13.00			V
47	Control Module Voltage Signal	13.07 13.06 13.08			V
48	9V Reference 1 Circuit Status	ok			
49	9V Reference 2 Circuit Status	ok			
50	Transmission Control Solenoid Valve 1 Current Command	0.04	0.04	0.04	A
51	Transmission Control Solenoid Valve 1 Control Circuit Low Voltage Test Status	ok			
52	Transmission Control Solenoid Valve 1 Control Circuit Open Test Status	ok			
53	Transmission Control Solenoid Valve 1 Control Circuit High Voltage Test Status	ok			
54	Transmission Control Solenoid Valve 2 Current Command	1.11	1.22	1.00	A
55	Transmission Control Solenoid Valve 2 Control Circuit Low Voltage Test Status	ok			
56	Transmission Control Solenoid Valve 2 Control Circuit Open Test Status	ok			
57	Transmission Control Solenoid Valve 2 Control Circuit High Voltage Test Status	ok			
58	Transmission Control Solenoid Valve 3 Current Command	0.05			A
59	Transmission Control Solenoid Valve 3 Control Circuit Low Voltage Test Status	ok			
60	Transmission Control Solenoid Valve 3 Control Circuit Open Test Status	ok			
61	Transmission Control Solenoid Valve 3 Control Circuit High Voltage Test Status	ok			
62	Transmission Control Solenoid Valve 4 Current Command	1.15			A
63	Transmission Control Solenoid Valve 4 Control Circuit Open Test Status	ok			
64	Transmission Control Solenoid Valve 4 Control Circuit High Voltage Test Status	ok			
65	Transmission Control Solenoid Valve 4 Control Circuit Low Voltage Test Status	ok			
66	Transmission Control Solenoid Valve 5 Current Command	1.15			A
67	Transmission Control Solenoid Valve 5 Control Circuit Low Voltage Test Status	ok			
68	Transmission Control Solenoid Valve 5 Control Circuit Open Test Status	ok			
69	Transmission Control Solenoid Valve 5 Control Circuit High Voltage Test Status	ok			
70	Transmission Control Solenoid Valve 6 Current Command	0.84			A
71	Transmission Control Solenoid Valve 6 Control Circuit Low Voltage Test Status	ok			
72	Transmission Control Solenoid Valve 6 Control Circuit Open Test Status	ok			
73	Transmission Control Solenoid Valve 6 Control Circuit High Voltage Test Status	ok			
74	Transmission Control Solenoid Valve 7 Current Command	0.05			A
75	Transmission Control Solenoid Valve 7 Control Circuit Low Voltage Test Status	ok			
76	Transmission Control Solenoid Valve 7 Control Circuit Open Test Status	ok			
77	Transmission Control Solenoid Valve 7 Control Circuit High Voltage Test Status	ok			
78	Transmission Control Solenoid Valve 8 Control Circuit Low Voltage Test Status	ok			
79	Transmission Control Solenoid Valve 8 Control Circuit Open Test Status	ok			
80	Transmission Control Solenoid Valve 8 Control Circuit High Voltage Test Status	Not Run			
81	Transmission Control Solenoid Valve 9 Control Circuit Low Voltage Test Status	ok			
82	Transmission Control Solenoid Valve 9 Control Circuit Open Test Status	ok			
83	Transmission Control Solenoid Valve 9 Control Circuit High Voltage Test Status	Not Run			
84	High Side Driver 1 Command	Enabled			
85	High Side Driver 1 Circuit Low Voltage Test Status	ok			
86	High Side Driver 1 Circuit Open Test Status	Not Run			
87	High Side Driver 1 Circuit High Voltage Test Status	Not Run			
88	High Side Driver 2 Command	Enabled			
89	High Side Driver 2 Circuit Open Test Status	Not Run			
90	High Side Driver 2 Circuit Low Voltage Test Status	ok			
91	High Side Driver 2 Circuit High Voltage Test Status	Not Run			
92	Transmission Control Solenoid Valve 1 Calibration Data	Valid			
93	Transmission Control Solenoid Valve 2 Calibration Data	Valid			
94	Transmission Control Solenoid Valve 3 Calibration Data	Valid			
95	Transmission Control Solenoid Valve 4 Calibration Data	Valid			
96	Transmission Control Solenoid Valve 5 Calibration Data	Valid			

97	Transmission Control Solenoid Valve 6 Calibration Data	Valid
98	Transmission Control Solenoid Valve 7 Calibration Data	Valid
99	Brake Pedal Switch	Released

Electronic Brake Control Module(EBCM)

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Successful Adaptive Pressure Control Learn Counter	15	17	14	
2	Ignition Cycles Until Next Adaptive Pressure Control Maintenance Mode	51	56	46	
3	Inhibited Adaptive Pressure Control Maintenance Mode Activation Attempts	0	0	0	
4	Primary Isolation Solenoid Valve Learn Status	Learned			
5	Secondary Isolation Solenoid Valve Learn Status	Learned			
6	ABS Left Front Inlet Solenoid Valve Learn Status	Learned			
7	ABS Right Front Inlet Solenoid Valve Learn Status	Learned			
8	ABS Left Rear Inlet Solenoid Valve Learn Status	Learned			
9	ABS Right Rear Inlet Solenoid Valve Learn Status	Learned			
10	Adaptive Pressure Control Performance Value 1	08B40000			
11	Adaptive Pressure Control Performance Value 2	7FFF7F7F			
12	Primary Isolation Solenoid Valve Learned Value	00	0	0	
13	Secondary Isolation Solenoid Valve Learned Value	02	2	2	
14	ABS Left Front Inlet Solenoid Valve Learned Value	01	1	1	
15	ABS Right Front Inlet Solenoid Valve Learned Value	02	2	2	
16	ABS Left Rear Inlet Solenoid Valve Learned Value	00	0	0	
17	ABS Right Rear Inlet Solenoid Valve Learned Value	00	0	0	
18	Left Front Inlet Solenoid Valve Feedback	Inactive			
19	Left Front Outlet Solenoid Valve Feedback	Inactive			
20	Right Front Inlet Solenoid Valve Feedback	Inactive			
21	Right Front Outlet Solenoid Valve Feedback	Inactive			
22	Left Rear Inlet Solenoid Valve Feedback	Inactive			
23	Left Rear Outlet Solenoid Valve Feedback	Inactive			
24	Right Rear Inlet Solenoid Valve Feedback	Inactive			
25	Right Rear Outlet Solenoid Valve Feedback	Inactive			
26	Vehicle Stability System Relay Feedback	Active			
27	Secondary Isolation Solenoid Valve Feedback	Inactive			
28	Primary Isolation Solenoid Valve Feedback	Inactive			
29	Secondary Prime Solenoid Valve Feedback	Inactive			
30	Primary Prime Solenoid Valve Feedback	Inactive			
31	Pump Motor Relay Feedback	Inactive			
32	System Voltage	13.27	14.60	11.94	V
33	ABS Pump Motor Voltage	0.00	0.00	0.00	V
34	Brake Pressure	0	0	0	psi
35	Brake Pressure Sensor	0.51	0.56	0.46	V
36	Left Front Wheel Speed Sensor	0	0	0	mph
37	Right Front Wheel Speed Sensor	0	0	0	mph
38	Left Rear Wheel Speed Sensor	0	0	0	mph
39	Right Rear Wheel Speed Sensor	0	0	0	mph
40	Lateral Acceleration Signal	0	0	0	m/s2
41	Yaw Rate Signal	0			deg/s
42	Steering Wheel Angle	-1.0			deg
43	Requested Torque	59			%
44	Delivered Torque	40			%
45	Brake Pedal Position Sensor	Inactive			
46	Traction Control System Status	Inactive			
47	Vehicle Stability System Status	Inactive			

48	Brake Fluid Level Sensor	ok	
49	Antilock Braking System	ok	
50	Traction Control System	ok	
51	Vehicle Stability System	ok	
52	Panic Brake Assist Status	ok	
53	Dynamic Rear Proportioning Status	ok	
54	Brake Booster Vacuum Sensor Supply	4.96	V
55	Brake Booster Vacuum Sensor	-10.58	psi

Inflatable Restraint Sensing and Diagnostic Module(IRSDM)

Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Security Code Programmed	Yes			
2	Security Code Accepted	No			
3	Security Code Lockout	Inactive			
4	Security Code Lockout Active Timer	0	0	0	
5	Security Code Programming Counter	1	1	1	
6	Security Code Reset Counter	0	0	0	
7	Vehicle Identification Number (VIN)	3GTU2NECXHG229174			
8	VIN Programmed	Yes			
9	VIN Programming Counter	0	0	0	
10	Impact Sensor 1 Type	1st Row Left Side			
11	Impact Sensor 1 Enable Status	Enabled			
12	Impact Sensor 1 Learn Status	Learned			
13	Impact Sensor 2 Type	1st Row Right Side			
14	Impact Sensor 2 Enable Status	Enabled			
15	Impact Sensor 2 Learn Status	Learned			
16	Impact Sensor 3 Type	Left Front			
17	Impact Sensor 3 Enable Status	Enabled			
18	Impact Sensor 3 Learn Status	Learned			
19	Impact Sensor 4 Type	Right Front			
20	Impact Sensor 4 Enable Status	Enabled			
21	Impact Sensor 4 Learn Status	Learned			
22	Impact Sensor 5 Type	2nd Row Left Side			
23	Impact Sensor 5 Enable Status	Enabled			
24	Impact Sensor 5 Learn Status	Learned			
25	Impact Sensor 6 Type	2nd Row Right Side			
26	Impact Sensor 6 Enable Status	Enabled			
27	Impact Sensor 6 Learn Status	Learned			
28	Impact Sensor 7 Type	Not Equipped			
29	Impact Sensor 7 Enable Status	Disabled			
30	Impact Sensor 7 Learn Status	Not Learned			
31	Impact Sensor 8 Type	Not Equipped			
32	Impact Sensor 8 Enable Status	Disabled			
33	Impact Sensor 8 Learn Status	Not Learned			
34	Driver Seat Belt Sensor Enable Status	Enabled			
35	Driver Seat Belt Sensor Learn Status	Learned			
36	Driver Seat Position Sensor Enable Status	Enabled			
37	Driver Seat Position Sensor Learn Status	Learned			
38	Passenger Seat Belt Sensor Enable Status	Enabled			
39	Passenger Seat Belt Sensor Learn Status	Learned			
40	Passenger Seat Belt Reminder Indicator Enable Status	Enabled			
41	Passenger Seat Belt Reminder Indicator Learn Status	Learned			
42	Passenger Seat Position Sensor Enable Status	Disabled			

43	Passenger Seat Position Sensor Learn Status	Not Learned
44	Passenger Air Bag Disable Switch Enable Status	Disabled
45	Passenger Air Bag Disable Switch Learn Status	Not Learned
46	Passenger Air Bag Enabled Indicator Enable Status	Enabled
47	Passenger Air Bag Enabled Indicator Learn Status	Learned
48	Passenger Air Bag Disabled Indicator Enable Status	Enabled
49	Passenger Air Bag Disabled Indicator Learn Status	Learned
50	Passenger Presence System Enable Status	Enabled
51	Passenger Presence System Learn Status	Learned
52	Passenger Presence Sensor Enable Status	Disabled
53	Passenger Presence Sensor Learn Status	Not Learned
54	2nd Row Left Passenger Presence Sensor Enable Status	Disabled
55	2nd Row Left Passenger Presence Sensor Learn Status	Not Learned
56	2nd Row Middle Passenger Presence Sensor Enable Status	Disabled
57	2nd Row Middle Passenger Presence Sensor Learn Status	Not Learned
58	2nd Row Right Passenger Presence Sensor Enable Status	Disabled
59	2nd Row Right Passenger Presence Sensor Learn Status	Not Learned
60	Rollover Sensor Enable Status	Enabled
61	Rollover Sensor Learn Status	Learned
62	Deployment Loop 1 Type	Driver Steering Wheel Air Bag Stage 1
63	Deployment Loop 1 Enable Status	Enabled
64	Deployment Loop 1 Learn Status	Learned
65	Deployment Loop 2 Type	Passenger Instrument Panel Air Bag Stage 1
66	Deployment Loop 2 Enable Status	Enabled
67	Deployment Loop 2 Learn Status	Learned
68	Deployment Loop 3 Type	Driver Steering Wheel Air Bag Stage 2
69	Deployment Loop 3 Enable Status	Enabled
70	Deployment Loop 3 Learn Status	Learned
71	Deployment Loop 4 Type	Passenger Instrument Panel Air Bag Stage 2
72	Deployment Loop 4 Enable Status	Enabled
73	Deployment Loop 4 Learn Status	Learned
74	Deployment Loop 5 Type	Driver Seat Belt Retractor Pretensioner
75	Deployment Loop 5 Enable Status	Enabled
76	Deployment Loop 5 Learn Status	Learned
77	Deployment Loop 6 Type	Passenger Seat Belt Retractor Pretensioner
78	Deployment Loop 6 Enable Status	Enabled
79	Deployment Loop 6 Learn Status	Learned
80	Deployment Loop 7 Type	Driver Seat Belt Anchor Pretensioner
81	Deployment Loop 7 Enable Status	Enabled
82	Deployment Loop 7 Learn Status	Learned
83	Deployment Loop 8 Type	Passenger Seat Belt Anchor Pretensioner
84	Deployment Loop 8 Enable Status	Enabled
85	Deployment Loop 8 Learn Status	Learned
86	Deployment Loop 9 Type	Driver Seat Side Air Bag
87	Deployment Loop 9 Enable Status	Enabled
88	Deployment Loop 9 Learn Status	Learned
89	Deployment Loop 10 Type	Passenger Seat Side Air Bag
90	Deployment Loop 10 Enable Status	Enabled
91	Deployment Loop 10 Learn Status	Learned
92	Deployment Loop 11 Type	Left Roof Rail Air Bag
93	Deployment Loop 11 Enable Status	Enabled
94	Deployment Loop 11 Learn Status	Learned
95	Deployment Loop 12 Type	Right Roof Rail Air Bag
96	Deployment Loop 12 Enable Status	Enabled

97	Deployment Loop 12 Learn Status	Learned			
98	Deployment Loop 13 Type	Not Equipped			
99	Deployment Loop 13 Enable Status	Disabled			
100	Deployment Loop 13 Learn Status	Not Learned			
101	Deployment Loop 14 Type	Not Equipped			
102	Deployment Loop 14 Enable Status	Disabled			
103	Deployment Loop 14 Learn Status	Not Learned			
104	Deployment Loop 15 Type	Not Equipped			
105	Deployment Loop 15 Enable Status	Disabled			
106	Deployment Loop 15 Learn Status	Not Learned			
107	Deployment Loop 16 Type	Not Equipped			
108	Deployment Loop 16 Enable Status	Disabled			
109	Deployment Loop 16 Learn Status	Not Learned			
110	Deployment Loop 17 Type	Not Equipped			
111	Deployment Loop 17 Enable Status	Disabled			
112	Deployment Loop 17 Learn Status	Not Learned			
113	Deployment Loop 18 Type	Not Equipped			
114	Deployment Loop 18 Enable Status	Disabled			
115	Deployment Loop 18 Learn Status	Not Learned			
116	Deployment Loop 19 Type	Not Equipped			
117	Deployment Loop 19 Enable Status	Disabled			
118	Deployment Loop 19 Learn Status	Not Learned			
119	Deployment Loop 20 Type	Not Equipped			
120	Deployment Loop 20 Enable Status	Disabled			
121	Deployment Loop 20 Learn Status	Not Learned			
122	Deployment Loop 15 Resistance	0.00	0.00	0.00	Ohms
123	Deployment Loop 16 Resistance	0.00	0.00	0.00	Ohms
124	Deployment Loop 17 Resistance	0.00	0.00	0.00	Ohms
125	Deployment Loop 18 Resistance	0.00	0.00	0.00	Ohms
126	Deployment Loop 19 Resistance	0.00			Ohms
127	Deployment Loop 20 Resistance	0.00			Ohms
128	Deployment Loop 1 Resistance	3.00	3.30	2.70	Ohms
129	Deployment Loop 2 Resistance	2.60	2.86	2.34	Ohms
130	Deployment Loop 3 Resistance	3.10	3.41	2.79	Ohms
131	Deployment Loop 4 Resistance	2.60	2.86	2.34	Ohms
132	Deployment Loop 5 Resistance	2.20			Ohms
133	Deployment Loop 6 Resistance	2.40			Ohms
134	Deployment Loop 7 Resistance	2.50			Ohms
135	Deployment Loop 8 Resistance	2.50			Ohms
136	Deployment Loop 9 Resistance	2.40			Ohms
137	Deployment Loop 10 Resistance	2.40			Ohms
138	Deployment Loop 11 Resistance	2.50			Ohms
139	Deployment Loop 12 Resistance	2.60			Ohms
140	Deployment Loop 13 Resistance	0.00			Ohms
141	Deployment Loop 14 Resistance	0.00			Ohms
142	Module Setup	Complete			
143	Inflatable Restraint Sensing and Diagnostic Module Primary Key	9730	10703	8757	
144	Received Primary Key	9730	10703	8757	
145	Primary Key Status	Valid			
146	Primary Key Status Last Ignition Cycle	Valid			
147	Air Bag Malfunction Indicator	Off			
148	Driver Seat Belt Status	Unbuckled			
149	Driver Seat Belt Reminder Indicator	On			
150	Driver Seat Position Sensor	Rearward			

151	Passenger Seat Belt Status	Unbuckled
152	Passenger Seat Belt Reminder Indicator	Off
153	Passenger Seat Position Sensor	Not Equipped
154	Passenger Air Bag Status	Disabled
155	Passenger Air Bag Disable Switch	Off
156	Passenger Air Bag On Indicator	Off
157	Passenger Air Bag Off Indicator	On
158	Passenger Presence Module Seat Occupancy Status	Empty Seat
159	Passenger Presence Sensor Seat Occupancy Status	Empty Seat
160	Passenger Classification	Undefined
161	Passenger Presence System Reporting DTC(s)	No
162	2nd Row Left Seat Belt Status	Not Equipped
163	2nd Row Middle Seat Belt Status	Not Equipped
164	2nd Row Right Seat Belt Status	Not Equipped

Body Control Module(BCM)

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Windshield Washer Relay Command	Inactive			
2	Windshield Washer Switch	Inactive			
3	Windshield Wiper High Speed Switch	Inactive			
4	Windshield Wiper High Speed Relay Command	Inactive			
5	Windshield Wiper Motor Relay Command	Inactive			
6	Windshield Wiper Park Switch	Active			
7	Windshield Wiper Stalled During Sweep	Inactive			
8	Windshield Wiper Stalled in Park Position	Inactive			
9	Windshield Wiper Switch	Off			
10	Driver Window Learned	Yes			
11	Driver Window Main Control Down Switch	Inactive			
12	Driver Window Main Control Express Switch	Inactive			
13	Driver Window Main Control Up Switch	Inactive			
14	Driver Window Motor Reversing Status	No			
15	Driver Window Motor Sensing System Fault Status	No			
16	Driver Window Motor Thermal Protection Status	No			
17	Driver Window Motor Undervoltage Status	No			
18	Front Passenger Window Main Control Down Switch	Inactive			
19	Front Passenger Window Main Control Express Switch	Inactive			
20	Front Passenger Window Main Control Up Switch	Inactive			
21	Passenger Window Switch at Door	Inactive			
22	Left Rear Window Main Control Down Switch	Inactive			
23	Left Rear Window Main Control Express Switch	Inactive			
24	Left Rear Window Main Control Up Switch	Inactive			
25	Left Rear Window Switch at Door	Inactive			
26	Right Rear Window Main Control Down Switch	Inactive			
27	Right Rear Window Main Control Express Switch	Inactive			
28	Right Rear Window Main Control Up Switch	Inactive			
29	Right Rear Window Switch at Door	Inactive			
30	Window Lockout Switch	Active			
31	Driver Window Position	Fully Closed			
32	Front Passenger Window Position	Fully Closed			
33	Left Rear Window Position	Fully Closed			
34	Right Rear Window Position	Fully Closed			
35	All Doors Lock Command	Inactive			
36	Driver Door Unlatch Command	Inactive			



37	Passenger Door(s) Unlatch Command	Inactive			
38	Driver Door Lock Switch	Inactive			
39	Passenger Door Lock Switch	Inactive			
40	Left Rear Child Security Lock Switch	Active			
41	Right Rear Child Security Lock Switch	Active			
42	Child Security Lock Motors Command	Inactive			
43	Last Door Lock Function	All Doors Unlock			
44	Driver Door Ajar Switch	Inactive			
45	Passenger Door Ajar Switch	Inactive			
46	Left Rear Door Ajar Switch	Inactive			
47	Right Rear Door Ajar Switch	Inactive			
48	Hood Position	Closed			
49	Tire Pressure Monitoring System Regulation Type	Federal Motor Vehicle Safety Standards (FMVSS)			
50	Front Tire Pressure on Placard	37.84	41.62	34.06	psi
51	Selected Front Tire Type	Standard Load			
52	Rear Tire Pressure on Placard	37.84	41.62	34.06	psi
53	Selected Rear Tire Type	Standard Load			
54	Left Front Tire Pressure	39.15	43.07	35.24	psi
55	Left Front Tire Pressure Sensor Identification	2026810830	2229491968	1824129792	
56	Left Front Tire Pressure Sensor Location Learned	Yes			
57	Left Front Tire Pressure Sensor Mode	Learn Mode - Pressure Triggered			
58	Left Front Tire Pressure Status	Normal			
59	Left Rear Tire Pressure	39.88			psi
60	Left Rear Tire Pressure Sensor Identification	2026812063			
61	Left Rear Tire Pressure Sensor Location Learned	Yes			
62	Left Rear Tire Pressure Sensor Mode	Learn Mode - Pressure Triggered			
63	Left Rear Tire Pressure Status	Normal			
64	Right Front Tire Pressure	41.47			psi
65	Right Front Tire Pressure Sensor Identification	2026814984			
66	Right Front Tire Pressure Sensor Location Learned	Yes			
67	Right Front Tire Pressure Sensor Mode	Learn Mode - Pressure Triggered			
68	Right Front Tire Pressure Status	Normal			
69	Right Rear Tire Pressure	38.28	42.11	34.45	psi
70	Right Rear Tire Pressure Sensor Identification	2416183313	2657801728	2174564864	
71	Right Rear Tire Pressure Sensor Location Learned	Yes			
72	Right Rear Tire Pressure Sensor Mode	Wake-Up			
73	Right Rear Tire Pressure Status	Normal			
74	Left Front Tire Pressure Sensor Signal Quality	100	110	90	%
75	Left Rear Tire Pressure Sensor Signal Quality	100	110	90	%
76	Right Front Tire Pressure Sensor Signal Quality	100	110	90	%
77	Right Rear Tire Pressure Sensor Signal Quality	100	110	90	%
78	Left Front Tire Pressure Sensor Signal Quality	0	0	0	sec
79	Left Rear Tire Pressure Sensor Signal Quality	0	0	0	sec
80	Right Front Tire Pressure Sensor Signal Quality	0	0	0	sec
81	Right Rear Tire Pressure Sensor Signal Quality	0	0	0	sec
82	Sunroof Enabled	Inactive			
83	Sunroof Motor Overtemperature	Inactive			
84	Sunroof Not Learned	Inactive			
85	Sunroof Position	Closed			
86	Sunroof Remote Command	Inactive			
87	Sunroof Slide Switch	Inactive			
88	Sunroof Tilt Switch	Inactive			
89	Driver Seat Heating/Venting/Cooling Mode	Off			
90	Driver Seat Heating Switch	Inactive			

91	Driver Seat Ventilation Switch	Inactive		
92	Passenger Seat Heating/Venting/Cooling Mode	Off		
93	Passenger Seat Heating Switch	Inactive		
94	Passenger Seat Ventilation Switch	Inactive		
95	Left Rear Seat Heating/Venting/Cooling Mode	Off		
96	Left Rear Seat Heating Switch	Inactive		
97	Right Rear Seat Heating/Venting/Cooling Mode	Off		
98	Right Rear Seat Heating Switch	Inactive		
99	Disable History 2 - Battery Voltage	ok		
100	Disable History 2 - Brake Transmission Shift Interlock Solenoid Actuator	Inactive		
101	Disable History 2 - Content Theft Deterrent Mode	Inactive		
102	Disable History 2 - Engine Control Module Crank Abort	Inactive		
103	Disable History 2 - Engine Stalled	Inactive		
104	Disable History 2 - Hazard Lamps Switch	Inactive		
105	Disable History 2 - Hood Open Switch	Closed		
106	Disable History 2 - Hood Open Switch Signal Invalid	Inactive		
107	Disable History 2 - Ignition Switch Status	Inactive		
108	Disable History 2 - Key Fob in Vehicle	Inactive		
109	Disable History 2 - Key in Ignition Status	Inactive		
110	Disable History 2 - Power Mode Controlled by Backup Device	Inactive		
111	Disable History 2 - Remote Vehicle Start Attempts Exhausted	Inactive		
112	Disable History 2 - Remote Vehicle Start Crank Time	Inactive		
113	Disable History 2 - Remote Vehicle Start Disabled by Driver	Inactive		
114	Disable History 2 - Remote Vehicle Starts Exhausted	Inactive		
115	Disable History 2 - Run Abort	Inactive		
116	Disable History 2 - Valet Mode	Inactive		
117	Disable History 1 - Battery Voltage	ok		
118	Disable History 1 - Brake Transmission Shift Interlock Solenoid Actuator	Inactive		
119	Disable History 1 - Content Theft Deterrent Mode	Inactive		
120	Disable History 1 - Engine Control Module Crank Abort	Active		
121	Disable History 1 - Engine Stalled	Inactive		
122	Disable History 1 - Hazard Lamps Switch	Inactive		
123	Disable History 1 - Hood Open Switch	Closed		
124	Disable History 1 - Hood Open Switch Signal Invalid	Inactive		
125	Disable History 1 - Ignition Switch Status	Inactive		
126	Disable History 1 - Key Fob in Vehicle	Inactive		
127	Disable History 1 - Key in Ignition Status	Inactive		
128	Disable History 1 - Power Mode Controlled by Backup Device	Inactive		
129	Disable History 1 - Remote Vehicle Start Attempts Exhausted	Inactive		
130	Disable History 1 - Remote Vehicle Start Crank Time	Inactive		
131	Disable History 1 - Remote Vehicle Start Disabled by Driver	Inactive		
132	Disable History 1 - Remote Vehicle Starts Exhausted	Inactive		
133	Disable History 1 - Run Abort	Inactive		
134	Disable History 1 - Valet Mode	Inactive		
135	Remote Vehicle Start Attempts Exhausted	3	3	3
136	Remote Vehicle Start Source	Ignition Switch Start		
137	Remote Vehicle Starts Exhausted	2	2	2
138	Key Fob 1 Battery Status	ok		
139	Key Fob 1 Function	All Doors Unlock		
140	Key Fob 1 Identifier	2147483647	2362232064	1932735232
141	Key Fob 1 Status	Learned		
142	Key Fob 2 Battery Status	ok		
143	Key Fob 2 Function	None		
144	Key Fob 2 Identifier	2147483647	2362232064	1932735232

145	Key Fob 2 Status	Learned			
146	Key Fob 3 Battery Status	ok			
147	Key Fob 3 Function	None			
148	Key Fob 3 Identifier	2147483647			
149	Key Fob 3 Status	Not Learned			
150	Key Fob 4 Battery Status	ok			
151	Key Fob 4 Function	None			
152	Key Fob 4 Identifier	2147483647			
153	Key Fob 4 Status	Not Learned			
154	Key Fob 5 Battery Status	ok			
155	Key Fob 5 Function	None			
156	Key Fob 5 Identifier	2147483647			
157	Key Fob 5 Status	Not Learned			
158	Key Fob 6 Battery Status	ok			
159	Key Fob 6 Function	None			
160	Key Fob 6 Identifier	2147483647			
161	Key Fob 6 Status	Not Learned			
162	Key Fob 7 Battery Status	ok			
163	Key Fob 7 Function	None			
164	Key Fob 7 Identifier	2147483647			
165	Key Fob 7 Status	Not Learned			
166	Key Fob 8 Battery Status	ok			
167	Key Fob 8 Function	None			
168	Key Fob 8 Identifier	2147483647			
169	Key Fob 8 Status	Not Learned			
170	Battery Voltage	13.2	14.5	11.9	V
171	SV Ignition Switch	Run			
172	Attachment	Active			
173	Accessory/Retained Accessory Power Relay Command	Active			
174	Disable Battery Saver Relay Command	Inactive			
175	Enable Battery Saver Relay Command	Inactive			
176	Ignition Switch Reference	5.0	5.5	4.5	V
177	Ignition Switch Signal Voltage	4.0	4.4	3.6	V
178	Key in Cylinder Switch/Key Fob in Vehicle	Yes			
179	Run/Crank	Active			
180	Run/Crank Relay Command	Active			
181	Transponder Authentication	Authentication Data Transmission Complete			
182	Transponder Key Status	ok			
183	Inadvertent Load Command	Active			
184	LED Backlight Dimming Command	96	106	86	%
185	Security Indicator Command	0			
186	Window Lockout Switch Indicator Command	Active			
187	Accent Lighting 1 Command	96	106	86	%
188	Accent Lighting 2 Command	96	106	86	%
189	Ambient Light Sensor	2.0	2.2	1.8	V
190	Ambient Light Status	Night			
191	Child Security Lock Indicator Command	Active			
192	Courtesy Lamps Duty Cycle Command	0	0	0	%
193	Hazard Lamps Switch	Inactive			
194	Interior/Courtesy Lighting Master Switch	Inactive			
195	Environment Identification	Unknown			
196	Key Part Number	0	0	0	
197	Master Keys Learned	2	2	2	
198	Total Keys Learned	2	2	2	

199	Key Type	Master Key			
200	Previous Key Type	Master Key			
201	Primary Key Status	Yes			
202	Secondary Key Status	No			
203	Immobilizer Allows Engine to Start	Valid			
204	Immobilizer Automatic Learn Timer	Inactive			
205	Immobilizer Environment Device 1	Okay			
206	Immobilizer Environment Device 2	Okay			
207	Immobilizer Environment Device 3	Okay			
208	Immobilizer Environment Device 4	Okay			
209	Immobilizer Password Learn	Inactive			
210	Immobilizer Password Learn Scan Tool Delay	0			
211	Immobilizer Security Code Accepted	No			
212	Immobilizer Security Code Programmed	Yes			
213	Telematics Enhanced Service Override Active	No			
214	Park Lamps Relay Command	Inactive			
215	Left Dedicated Daytime Running Lamp Command	0	0	0	%
216	Left Headlamp Low Beam Command	0	0	0	%
217	Right Dedicated Daytime Running Lamp Command	0	0	0	%
218	Right Headlamp Low Beam Command	0	0	0	%
219	Left Trailer Turn Signal Lamp Command	Inactive			
220	Right Trailer Turn Signal Lamp Command	Inactive			
221	Trailer Backup Lamps Command	Inactive			
222	Trailer Park Lamps Command	Inactive			
223	Automatic Headlamps Disable Switch	Inactive			
224	Backup Lamps Relay Command	Inactive			
225	Center Stop Lamp Command	Inactive			
226	Front Fog Lamps Relay Command	Inactive			
227	Front Fog Lamp Switch	Inactive			
228	Headlamps Flash Switch	Inactive			
229	Headlamps On Switch	Inactive			
230	High Beam Command	Inactive			
231	High Beam Select Switch	Inactive			
232	Left Front Turn Signal/Hazard Lamp Command	Inactive			
233	Left Rear Turn Signal/Stop Lamp Command	Inactive			
234	Left Turn Signal Lamps	Inactive			
235	Left Turn Signal Switch	Inactive			
236	License Plate Lamps Command	Inactive			
237	Outside Rear View Mirror Courtesy Lamp Command	Inactive			
238	Pickup Bed Cargo Lamp Command	0			%
239	Park Lamps Switch	Inactive			
240	Right Front Turn Signal/Hazard Lamp Command	Inactive			
241	Right Rear Turn Signal/Stop Lamp Command	Inactive			
242	Right Turn Signal Lamps	Inactive			
243	Right Turn Signal Switch	Inactive			
244	Battery Current Sensor	0.24 1.40	1.54	1.26	A
245	Battery Low at Start	Active			
246	BCM-Controlled Charging Voltage	Inactive			
247	BCM-Requested Charging Voltage Reduction	Active			
248	Drive Mode Select Switch	Inactive			
249	Fuel Economy Mode Inhibited - Low Charging Voltage	Inactive			
250	Generator Regulator Setpoint	49 48	54	44	%
251	Idle Boost Level 2 Counter	0	0	0	
252	Idle Boost Level 3 Counter	0			

253	Cruise Charging Set Level	0			
254	Idle Charging Set Level	0			
255	Load Reduction Level 2 Counter	0			
256	Load Reduction Level 3 Counter	0			
257	Regulated Voltage Control Mode	Voltage			
258	Start-Up State of Charge	73			%
259	State of Charge	75			%
260	Battery Reconnect Detected	No			
261	Column Lock Status	Unknown			
262	Content Theft Deterrent Trigger History 1	Hood			
263	Content Theft Deterrent Trigger History 2	Hood			
264	Content Theft Deterrent Trigger History 3	Hood			
265	Content Theft Deterrent Disarmed Until Vehicle Closed	No			
266	Content Theft Deterrent Alarm Status	Deactivated			
267	Current Content Theft Deterrent Trigger	None			
268	Horn Relay Command	Inactive			
269	Horn Switch	Inactive			
270	Brake Pedal Applied	Inactive			
271	Brake Pedal Initial Travel Position Achieved	No			
272	Brake Pedal Pulled Up from Released Position	No			
273	Brake Pedal Position Sensor High Voltage During Learn	No			
274	Brake Pedal Position Sensor Learn	No			
275	Brake Pedal Position Sensor Learned Released Position	Yes			
276	Brake Pedal Position Sensor Learned Released Position	1.12	1.23	1.01	V
277	Brake Pedal Position Sensor Learned Released Position	44	48	40	%
278	Brake Pedal Position Sensor Low Voltage During Learn	No			
279	Brake Pedal Position Sensor Move During Learn	No			
280	Brake Pedal Position Sensor	1.18 1.20	1.30	1.06	V
281	Brake Pedal Position Sensor Reference	5.03 5.02	5.53	4.53	V
282	Calculated Brake Pedal Position	0.05	0.06	0.04	V
283	Calculated Brake Pedal Position	0	0	0	%
284	Brake Transmission Shift Interlock Solenoid Actuator Command	Active			
285	Cruise Control Switch Status	Inactive			
286	Driver Shift Control Mode Switch	On			
287	Hill Descent Control Switch	Inactive			
288	Park Brake Status	Released			
289	Traction Control Switch	Inactive			

HVAC Control Module(HVACCM)

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Security Code Accepted	No			
2	Security Code Lockout	Inactive			
3	Security Code Lockout Active Timer	0	0	0	
4	Security Code Programmed	Yes			
5	Security Code Programming Counter	1	1	1	
6	Security Code Reset Counter	0	0	0	
7	A/C Switch	Inactive			
8	Air Recirculation Mode Switch	Inactive			
9	Auto HVAC Button	Inactive			
10	Bi-Level Switch	Inactive			
11	Blower Motor Switch	1	1	1	
12	Enhanced Defrost Switch	Inactive			
13	Floor Mode Switch	Inactive			

14	Fresh Air Switch	Inactive			
15	Instrument Panel Vents Switch	Inactive			
16	Left Temperature Switch	Inactive			
17	Mode Switch	Inactive			
18	MULTI-ZONE Switch	Inactive			
19	Rear Defogger Switch	Inactive			
20	Right Temperature Switch	Inactive			
21	A/C Compressor Clutch Status	Engaged			
22	A/C Compressor Clutch Inhibit Reason	Allowed			
23	A/C Compressor Refrigerant Solenoid Valve Command	66	73	59	%
24	A/C Evaporator Temperature Sensor	37	41	33	deg F
25	A/C High Side Pressure Sensor	158.340	174.174	142.506	psi
26	A/C Request Signal	No			
27	Ambient Air Temperature (Filtered)	86.0	94.6	77.4	deg F
28	Engine Coolant Temperature	179.6	197.6	161.6	deg F
29	Air Recirculation Door Actuator Command	644	708	580	count
30	Air Recirculation Door Actuator Learn Status	* Complete			
31	Air Recirculation Door Position	* 658	724	592	count
32	Air Recirculation Door Actuator Direction	Stop			
33	Desired Left Temperature Door Actuator Position	122	134	110	count
34	Left Temperature Door Actuator Direction	* Stop			
35	Left Temperature Door Actuator Learn Status	* Complete			
36	Left Temperature Door Position	134	147	121	count
37	Mode Door Actuator Command	* 828	911	745	count
38	Mode Door Actuator Direction	Stop			
39	Mode Door Actuator Learn Status	Complete			
40	Mode Door Position	829	912	746	count
41	Desired Right Temperature Door Actuator Position	134	147	121	count
42	Right Temperature Door Actuator Direction	Stop			
43	Right Temperature Door Actuator Learn Status	Complete			
44	Right Temperature Door Position	132	145	119	count
45	Battery Voltage	13.1	14.4	11.8	V
46	Blower Motor Speed	28	31	25	%
47	Blower Motor Speed Command	28	31	25	%
48	HVAC Actuators Supply Voltage	Active			
49	Ignition Voltage	13.06	14.37	11.75	V
50	Rear Defogger Deactivation Reason	None			
51	Rear Defogger Status	Off			
52	Requested Idle Boost Level	0			count
53	Stop/Start System Status	Engine Running			
54	Air Quality Sensor	0	0	0	%
55	Passenger Compartment Air Temperature (Filtered)	78.8	86.7	70.9	deg F
56	Passenger Compartment Air Temperature (Unfiltered)	78.8	86.7	70.9	deg F
57	Passenger Compartment Humidity	0	0	0	%
58	Passenger Compartment Humidity Sensor Temperature	32	35	29	deg F
59	Sunload	12			w/m2
60	Windshield Temperature	32			deg F

HVAC Controls(HAVCC)

Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Battery Voltage	13.0	14.3	11.7	V
2	Power Mode	Run			
3	Instrument Panel Compartment Door	Locked			

4	Backlight Dimming	Active			
5	Overtemperature	Yes			
6	Battery Saver Mode	Active			
7	Night Panel Mode	Active			
8	HVAC Controls Dimming Level	49	54	44	%
9	HVAC Display Dimming Level	10	11	9	%
10	HVAC Indicator Dimming Level	52	57	47	%
11	HVAC Controls	No Button Pressed			
12	HVAC Temperature Display - Left	68	75	61	
13	HVAC Temperature Display - Right	68	75	61	

Telematics Communication Interface Control Module(TCICM)

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	GSM Signal Strength	21 24	26	22	dBm
2	Current Public Land Mobile Network	310410	341451	279369	
3	Off-Board Navigation	Enabled			
4	Wireless LAN	Enabled			
5	Number of WLAN Devices	1	1	1	
6	Active WLAN 2.4 GHz Channel	1	1	1	
7	WLAN Link Status	Radio System - Associated			
8	GSM Signal Strength	3 Bars			
9	Mobile Communication Standard	4G LTE			
10	WLAN Password	kAren914			
11	WLAN SSID (Service Set Identifier)	Homer Can2			
12	WLAN Encryption - WPA (Wi-Fi Protected Access)	Inactive			
13	WLAN Encryption - WPA2 (Wi-Fi Protected Access II)	Active			
14	WLAN Encryption - AES (Advanced Encryption Standard)	Active			
15	WLAN Encryption - TKIP (Temporal Key Integrity Protocol)	Active			
16	Bluetooth	Disabled			
17	Bluetooth Link Status	Not Linked			
18	Bluetooth Link Quality	0	0	0	
19	Bluetooth Phone to Telematics Communication Interface Control Module Authentication Status	Inactive			
20	Bluetooth Phone to Telematics Communication Interface Control Module Communication Status	Inactive			
21	Bluetooth Phone Voice Recognition Status	Inactive			
22	Dead Reckoning Calibration Status	Calibrated			
23	Position Calculation Method	Gyroscope and GPS			
24	Month	5	6	5	
25	Day	23	25	21	
26	Year	23	25	21	
27	h	2	2	2	
28	min	49	54	44	
29	s	26	29	23	
30	Number of Satellites Tracked	8	9	7	

Amplifier(AMP)

| ECU

Calibration Part Number 1	84087763
Calibration Part Number 10	84111308
End Model Part Number	84111298
Diagnostic Data Identifier	FFFF

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Power Mode	Run			
2	Active Noise Cancellation	On			

3	Engine Speed Signal	Normal			
4	Battery Voltage	13.1	14.4	11.8	V
5	Vehicle Speed	0	0	0	mph
6	Engine Speed	0	0	0	rpm
7	Calculated System Temperature	127.4 129.2	142.1	116.3	deg F
8	Active Noise Cancellation Speaker Output	ok			
9	Cylinder Deactivation System Command	Inactive			
10	Microphone Status	Clipped			
11	Microphone 1 Input Level	1	1	1	count
12	Microphone 2 Input Level	0	0	0	count
13	Microphone 3 Input Level	0	0	0	count
14	Door Status	One or More Open			
15	Folding Top Status	Closed			

Human Machine Interface Control Module(HMICM)

Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	App 1 Version	0	0	0	
2	App 2 Identifier	83886080	92274688	75497472	
3	App 2 Version	0	0	0	
4	Number of Paired Bluetooth Devices Present	1	1	1	
5	Bluetooth Link Quality	255 254	281	230	
6	Bluetooth Device Connection Status	Linked			
7	Bluetooth Device Hands-Free Call Status	Inactive			
8	Bluetooth Device Audio Streaming Status	Inactive			
9	Bluetooth Device Internet Connection Status	Inactive			
10	Bluetooth Device Supports Hands-Free	Yes			
11	Bluetooth Device Supports Phone Book Access	Yes			
12	Bluetooth Device Supports Text Message Access	Yes			
13	Bluetooth Device Supports Serial Port	Yes			
14	Bluetooth Device Supports Navigation	No			
15	Bluetooth Device Supports Audio Streaming using Audio Video Remote Control Profile 1.0	No			
16	Bluetooth Device Supports Audio Streaming using Audio Video Remote Control Profile 1.3	No			
17	Bluetooth Device Supports Internet Access - Dial-Up Network	No			
18	Bluetooth Device Supports Internet Access - Personal Area Network	Yes			
19	Bluetooth Device Supports Internet Access - Dial-Up/Personal Area Network	No			
20	Bluetooth Device Class - Phone	Yes			
21	Bluetooth Device Class - Audio/Video	No			
22	Bluetooth Device Class - Computer	No			
23	Bluetooth Device Class - LAN or Network Access Point	No			
24	Battery Voltage	13.0 13.1	14.4	11.8	V
25	Power Mode	Run			
26	Infotainment System State	Fully Operational			
27	Human Machine Interface Control Module Microphone 1	Not Present			
28	Human Machine Interface Control Module Microphone 2	Not Present			
29	Human Machine Interface Control Module Powers GPS	Yes			
30	Rearview Camera	Present			
31	Rearview Camera Display	Inactive			
32	Front Touch Screen	Present			
33	USB Receptacle 1	Not Present			
34	USB Receptacle 2	Present			
35	Memory Card Receptacle	Not Present			
36	USB Hub 1	Present			
37	USB Hub 2	Present			



38	USB Hub 1 Number of Ports	7	8	6	
40	Valet Mode	Inactive			
41	Human Machine Interface Control Module Theft Protection Armed	Armed			
42	Human Machine Interface Control Module Theft Protection Locked	Inactive			
43	Cooling Fan Speed	Off			
44	Control Module Temperature Sensor 1	95.0 93.2	104.5	85.5	deg F
45	Control Module Temperature Sensor 2	98.6	108.5	88.7	deg F
46	App 3 Identifier	33554432	36909876	30198988	
47	App 3 Version	0	0	0	

Radio Controls(RC)

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Battery Voltage	13.0 13.2	14.5	11.9	V
2	Power Mode	Run			
3	Instrument Panel Compartment Door	Unlocked			
4	Backlight Dimming	Active			
5	Overtemperature	No			
6	Battery Saver Mode	Inactive			
7	Night Panel Mode	Active			
8	Backlight Dimming Level	49	54	44	%
9	Display Dimming	15	17	14	%
10	Info Display Dimming	15	17	14	%

Radio(RADIO)

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Battery Voltage	12.4 12.3	13.6	11.2	V
2	Power Mode	Run			
3	Time	210000	231000	189000	
4	Radio Band	UNRECOGNIZED STATE			
5	Audio Source Status	External Digital Media (USB Drive, iPod) None			
6	Current FM Frequency	0.0	0.0	0.0	MHz
7	Current AM Frequency	0	0	0	kHz
8	Volume Control	7	8	6	count
9	Mute Status	Inactive			
10	Equalizer Preset	Invalid			
11	Surround Sound	Off			
12	Surrogate MOST Master Node Upstream Position	None			
13	Number of MOST Communication Breaks	2			
14	Last Working MOST ID of Node 1	Radio			
15	Last Working MOST ID of Node 2	CD			
16	Last Working MOST ID of Node 3	Human Machine Interface Control Module			
17	Last Working MOST ID of Node 4	Amplifier			
18	Last Working MOST ID of Node 5	Instrument Cluster			
19	Last Working MOST ID of Node 6	UNRECOGNIZED STATE			
20	Last Working MOST ID of Node 7	UNRECOGNIZED STATE			

Transfer Case Control Module(TCCM)

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Transfer Case Commanded Position	4WD/AWD Automatic			
2	Transfer Case Range	Not Learned			
3	Transfer Case Range Selection Switch State	4WD/AWD Automatic			
4	Transfer Case Range Selection Switch	4.35	4.78	3.91	V

5	Range Actuator Learn Status	Not Learned			
6	Range Actuator Lock Command	Locked			
7	Range Actuator Direction Command	Stationary			
8	Range Actuator Direction	Stationary			
9	Range Actuator Command	0	0	0	%
10	Range Actuator Current	0.0	A		
11	Range Actuator Lock Control Circuit Low Voltage Test Status	ok			
12	Range Actuator Lock Control Circuit Open Test Status	ok			
13	Range Actuator Lock Control Circuit High Voltage Test Status	Not Run			
14	Range Actuator Control Circuit Low Voltage Test Status	ok			
15	Range Actuator Control Circuit Open Test Status	ok			
16	Range Actuator Control Circuit High Voltage Test Status	ok			
17	Range Actuator Control Circuit Shorted Test Status	Not Run			
18	Range Actuator Position	4WD/AWD Automatic			
19	Range Actuator Position Sensor	118.6	deg		
20	Range Actuator Position Sensor Low Reference Command	Off			
21	Range Actuator Position Sensor Supply Voltage Command	On			
22	Range Actuator Position Sensor	0.70	V		
23	Range Actuator Position Sensor Direction Signal	0.70	V		
24	Variation Between Transfer Case Range Position Sensor and Range Actuator Position Sensor	0.1	deg		
25	Variation Allowed Between Transfer Case Range Position Sensor and Range Actuator Position Sensor	7.0	7.7	6.3	deg
26	Transfer Case Range Position Sensor	118.4	130.2	106.6	deg
27	Transfer Case Range Position Sensor	996	1096	896	Hz
28	Transfer Case Range Position Sensor	75	83	68	%
29	Requested Transfer Case Clutch Torque	0	0	0	lb-ft
30	Transfer Case Clutch Torque	678.96	746.86	611.06	lb-ft
31	Transfer Case Output Shafts Slip Speed	0	0	0	rpm
32	Calculated Transfer Case Clutch Temperature	211.1	232.2	190.0	deg F
33	Front Axle Engagement Actuator Command	Engaged			
34	Front Axle Engagement Feedback Switch	Engaged			
35	Front Axle Engagement Actuator Control Circuit Low Voltage Test Status	Not Run			
36	Front Axle Engagement Actuator Control Circuit Open Test Status	Not Run			
37	Front Axle Engagement Actuator Control Circuit High Voltage Test Status	ok			
38	2WD High Range Indicator Command	Off			
39	4WD Automatic Range Indicator Command	On			
40	4WD High Range Indicator Command	Off			
41	4WD Low Range Indicator Command	Off			
42	Transfer Case Neutral Range Indicator Command	Off			
43	Service 4WD Indicator Command	Off			
44	Display Dimming	96	%		
45	2WD High Range Indicator Control Circuit Low Voltage Test Status	Not Run			
46	2WD High Range Indicator Control Circuit Open Test Status	Not Run			
47	2WD High Range Indicator Control Circuit High Voltage Test Status	Not Run			
48	4WD Automatic Range Indicator Control Circuit Low Voltage Test Status	Not Run			
49	4WD Automatic Range Indicator Control Circuit Open Test Status	Not Run			
50	4WD Automatic Range Indicator Control Circuit High Voltage Test Status	Not Run			
51	4WD High Range Indicator Control Circuit Low Voltage Test Status	Not Run			
52	4WD High Range Indicator Control Circuit Open Test Status	Not Run			
53	4WD High Range Indicator Control Circuit High Voltage Test Status	Not Run			
54	4WD Low Range Indicator Control Circuit Low Voltage Test Status	Not Run			
55	4WD Low Range Indicator Control Circuit Open Test Status	Not Run			
56	4WD Low Range Indicator Control Circuit High Voltage Test Status	Not Run			
57	Transfer Case Neutral Range Indicator Control Circuit Low Voltage Test Status	ok			
58	Transfer Case Neutral Range Indicator Control Circuit Open Test Status	ok			

59	Transfer Case Neutral Range Indicator Control Circuit High Voltage Test Status	Not Run			
60	Power Mode	Run			
61	Control Module Voltage Signal	13.1			V
62	Ignition 1 Signal	On			
63	Ignition Accessory Signal	On			
64	Sensor Reference Voltage 1	5.00	5.50	4.50	V
65	Sensor Reference 2	7.90	8.69	7.11	V
66	Sensor Reference 3	5.00	5.50	4.50	V
67	Transmission Gear	Park			
68	Current Transmission Gear	Park			
69	Transmission Fluid Temperature	131.0	144.1	117.9	deg F
70	Transmission OSS	0	0	0	rpm
71	Vehicle Speed	0	0	0	mph
72	Non-Driven Wheel Speed	0			
73	Engine Speed	554			
74	Engine Run Time	00:49:23\n			
75	Brake Pedal Position Sensor Signal	Invalid			
76	Steering Wheel Angle	0	0	0	deg
77	Vehicle Stability Control Request	0	0	0	%
78	Left Front Wheel Speed Sensor	0	0	0	mph
79	Right Front Wheel Speed Sensor	0	0	0	mph
80	Left Rear Wheel Speed Sensor	0	0	0	mph
81	Right Rear Wheel Speed Sensor	0	0	0	mph
82	Warm-Ups Since DTC Cleared	2	2	2	count

Power Steering Control Module(PSCM)

| Live Data

NO.	Name	Value	Maximum Value	Minimum Value	Unit
1	Ignition Cycle Counter	1360	1496	1224	
2	Calculated System Temperature	132.8 136.4	150.0	122.8	deg F
3	Steering Wheel Angle	51 0	56	46	deg
4	Steering Input Torque	-0.7 0	0	0	lb-ft
5	Power Steering Motor Overload Protection Counter	0	0	0	count
6	Power Steering Control Module Calibration Status	Complete			
7	Power Steering Control Module Center Procedure	Complete			
8	Engine Speed	563 555 549	619	507	rpm
9	Vehicle Speed	0	0	0	mph
10	Motor Feedback Current	0.0	0.0	0.0	A
11	Delivered Torque	0 189.67	0	0	lb-ft
12	Power Mode	Run			
13	Battery Voltage	13.3 13.2	14.6	12.0	V
14	Engine is Running	Yes			

Remark:

\*This report is only responsible for the results of this detection: