

2014 GMC Acadia Denali

2014 ENGINE PERFORMANCE Engine Controls and Fuel - 3.6L (LLT) - Specifications - Acadia, Enclave And Traverse

2014 ENGINE PERFORMANCE**Engine Controls and Fuel - 3.6L (LLT) - Specifications - Acadia, Enclave And Traverse****SPECIFICATIONS****TEMPERATURE VERSUS RESISTANCE - ENGINE COOLANT TEMPERATURE SENSOR****Temperature Versus Resistance - Engine Coolant Temperature Sensor**

Temperature C°/F°	Resistance Minimum Ohms	Resistance Maximum Ohms
Engine Coolant Temperature (ECT)		
-40/-40	40, 490	50, 136
-20/-4	14, 096	16, 827
-10/14	8, 642	10, 152
0/32	5, 466	6, 326
20/68	2, 351	2, 649
25/77	1, 941	2, 173
40/104	1, 118	1, 231
60/140	573	618
80/176	313	332
100/212	182	191
120/248	109	116
140/284	068	074

TEMPERATURE VERSUS RESISTANCE - INTAKE AIR TEMPERATURE SENSOR (HITACHI SENSOR)**Temperature Versus Resistance - Intake Air Temperature Sensor (Hitachi Sensor)**

Temperature C°/F°	Resistance Minimum Ohms	Resistance Maximum Ohms
Hitachi Intake Air Temperature (IAT) Sensor		
-40/-40	37, 527	49, 882
-20/-4	13, 110	16, 329
-10/14	8, 145	9, 851
0/32	5, 205	6, 122
20/68	2, 298	2, 570
25/77	1, 900	2, 100
40/104	1, 073	1, 226
60/140	537	639
80/176	289	356
100/212	165	210

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120/248	99	129
140/284	62	83
150/302	49	67

ALTITUDE VERSUS BAROMETRIC PRESSURE

Altitude Versus Barometric Pressure

Altitude Measured in Meters (m)	Altitude Measured in Feet (ft)	Barometric Pressure Measured in Kilopascals (kPa)	Barometric Pressure Measured in Pounds Per Square Inch (PSI)
Determine your altitude by contacting a local weather station or by using another reference source.			
4,267	14,000	56-64	8.1-9.3
3,962	13,000	58-66	8.4-9.6
3,658	12,000	61-69	8.8-10.0
3,353	11,000	64-72	9.3-10.4
3,048	10,000	66-74	9.6-10.7
2,743	9,000	69-77	10.0-11.2
2,438	8,000	71-79	10.3-11.5
2,134	7,000	74-82	10.7-11.9
1,829	6,000	77-85	11.2-12.3
1,524	5,000	80-88	11.6-12.8
1,219	4,000	83-91	12.0-13.2
914	3,000	87-95	12.6-13.8
610	2,000	90-98	13.1-14.2
305	1,000	94-102	13.6-14.8
0	0 Sea Level	96-104	13.9-15.1
-305	-1,000	101-105	14.6-15.2

IGNITION SYSTEM SPECIFICATIONS

Ignition System Specifications

Application	Specification
Firing Order	1-2-3-4-5-6
Spark Plug Torque	Refer to Fastener Tightening Specifications
Spark Plug Gap	Refer to Engine Mechanical Specifications
Spark Plug Type	Refer to Electronic Parts Catalog

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

	Specification

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Application	Metric	English
Accelerator Pedal Position (APP) Sensor Bolt	8 N.m	71 lb in
Air Cleaner Housing Cover Screw	4 N.m	35 lb in
Air Cleaner Lower Housing Screw	9 N.m	80 lb in
Air Cleaner Outlet Duct Clamp	4 N.m	35 lb in
Camshaft Position (CMP) Actuator Solenoid Valve Bolt	10 N.m	89 lb in
Camshaft Position (CMP) Sensor Bolt	10 N.m	89 lb in
Crankshaft Position (CKP) Sensor Bolt	10 N.m	89 lb in
Engine Control Module (ECM) Bracket Bolt	6 N.m	53 lb in
Engine Coolant Temperature (ECT) Sensor	22 N.m	16 lb ft
Evaporative Emission (EVAP) Purge Solenoid Valve Bracket Bolt	10 N.m	89 lb in
Fuel Feed/Evaporative Emission (EVAP) Pipe Clip Bolt	8 N.m	71 lb in
Fuel Feed/Evaporative Emission (EVAP) Pipe Clip Nut	9 N.m	80 lb in
Fuel Rail Bolt	25 N.m	18 lb ft
Fuel Tank Fill Hose Clamp	3.3 N.m	29 lb in
Fuel Tank Fill Pipe Bracket Bolt	12 N.m	106 lb in
Fuel Tank Fill Pipe Housing to Fuel Tank Fill Pipe Bolt	2 N.m	18 lb in
Fuel Tank Strap Bolt	47 N.m	35 lb ft
Heated Oxygen Sensor (HO2S)	42 N.m	31 lb ft
Intake Manifold Tuning Valve Bolt	10 N.m	89 lb in
Ignition Coil Bolt	10 N.m	89 lb in
Knock Sensor Bolt	23 N.m	17 lb ft
Mass Air Flow (MAF)/Intake Air Temperature Sensor Screw	4 N.m	35 lb in
Manifold Absolute Pressure (MAP) Sensor Bolt	10 N.m	89 lb in
Power Steering Fluid Reservoir Bracket Bolt	9 N.m	80 lb in
Spark Plug	18 N.m	13 lb ft
Throttle Body Bolt	10 N.m	89 lb in
Underhood Bussed Electrical Center (UBEC) Bracket Bolt/Nut	10 N.m	89 lb in

ADHESIVES, FLUIDS, LUBRICANTS AND SEALERS

Adhesives, Fluids, Lubricants and Sealers

Application	Type of Material	GM Part Number
Anti-Seize Compound	Lubricant	GM P/N 88862477 (Canadian P/N 88862478)
Camshaft Gear Access Hole Plug	Sealant	GM P/N 12346004 (Canadian P/N 10953480)

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Coolant Temperature Sensor Threads	Sealant	GM P/N 12346004 (Canadian P/N 10953480)
Fuel Injection Fuel Rail Bolts	Sealant	GM P/N 12345382 (Canadian P/N 10953489)
Intake Air Temperature Sensor Threads	Sealant	GM P/N 12346004 (Canadian P/N 10953480)
Top Engine Cleaner	Cleaner	GM P/N 1052626 (Canadian P/N 993026)