

**2002 GMC Envoy**

2002 ENGINES 4.2L 6-Cylinder - Bravada, Envoy &amp; Trailblazer

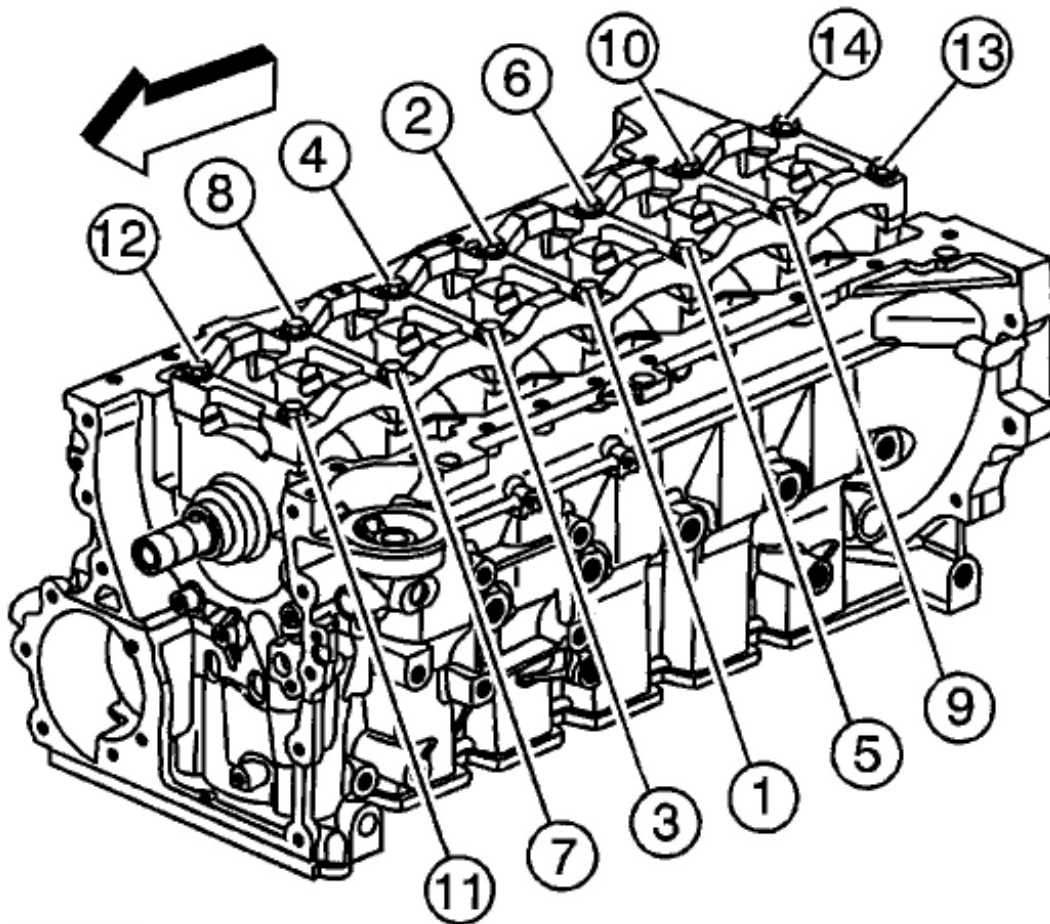
**TORQUE SPECIFICATIONS****TORQUE SPECIFICATIONS**

<b>Application</b>	<b>Ft. Lb. (N.m)</b>
A/C Compressor Bolts	37 (50)
A.I.R. Cover Stud	18 (25)
Cooling Fan Hub Nut	41 (56)
Crankshaft Balancer Bolt	
First Pass	110 (150)
Final Pass	180 Degrees
Cylinder Head Bolt (14)	
First Pass	22 (30)
Final Pass	155 Degrees
Drive Belt Idler Pulley Bolt	37 (50)
Drive Belt Tensioner Bolt	37 (50)
Engine Flywheel Bolt	
First Pass	18 (25)
Final Pass	50 Degrees
Engine Front Lift Bracket Bolt	37 (50)
Engine Harness Bracket Bolt	37 (50)
Engine Mount Bracket Bolt	
Engine	37 (50)
Frame	110 (81)
Engine Mount Nuts (Upper and Lower)	52 (70)
Exhaust Camshaft Actuator Bolt	
First Pass	18 (25)
Final Pass	135 Degrees
Exhaust Pipe Bolts	37 (50)
Front Differential Bolts	63 (85)
Heater Inlet Fitting	33 (45)
Heater Outlet Fitting	33 (45)
Intake Camshaft Sprocket Bolt	
First Pass	15 (20)
Final Pass	100 Degrees
Oil Filter (PF 58)	
First Pass	13 (17)
Final Pass	150 Degrees
Oil Filter Adapter	22 (30)
Oil Pan Bolt (Sides)	18 (25)
Oil Pan Nut	18 (25)
Oil Pressure Sensor	15 (20)

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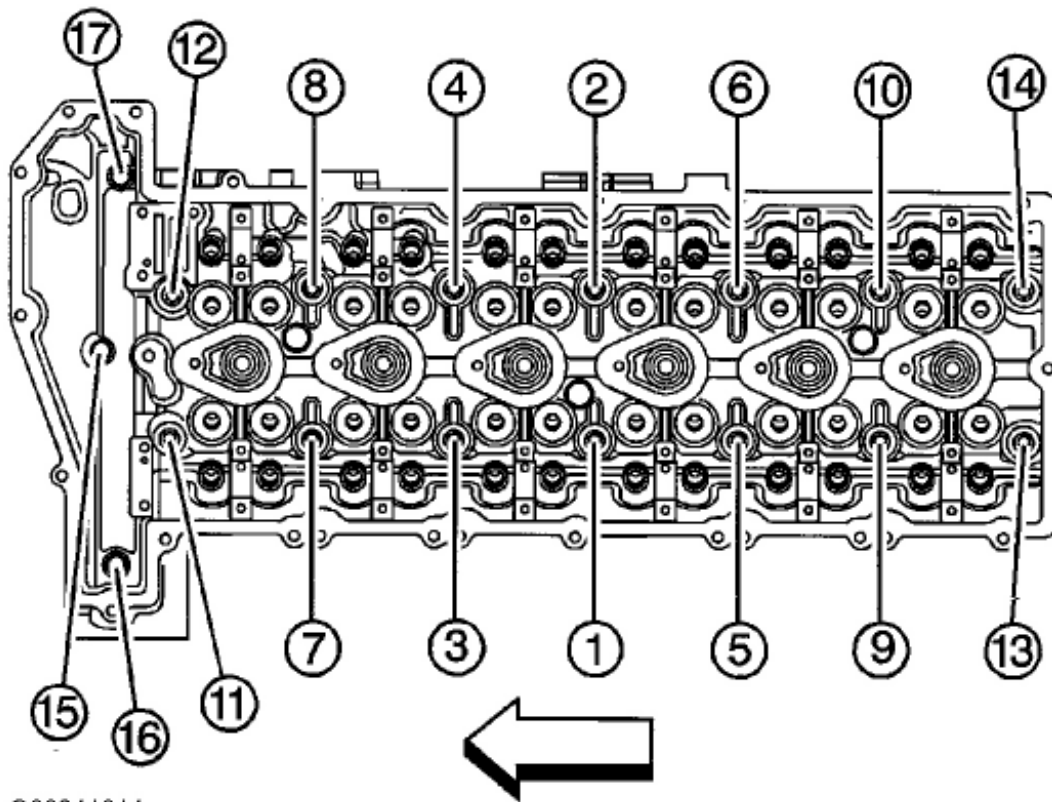
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Oil Pump Pressure Relief Valve	124 (14)
Power Steering Pump Bolt	18 (25)
Timing Chain Tensioner Bolt	18 (25)
Timing Chain Tensioner Shoe Bolt	18 (25)
Torque Converter Bolts	44 (60)
Transmission Bell Housing Bolts	37 (50)
<b>INCH Lbs. (N.m)</b>	
A/C Line Bracket Nut at Oil Level Indicator Tube	61 (7)
A/C Line Bracket Bolt at Engine Lift Bracket	89 (10)
Camshaft Cap Bolts	106 (12)
Camshaft Cover Bolt <sup>(1)</sup>	89 (10)
Crankshaft Rear Housing Bolt	89 (10)
Cylinder Head Access Hole Plug (Plastic)	44 (5)
Cylinder Head End Bolts (2 Short) <sup>(2)</sup>	
First Pass	62 (7)
Final Pass	60 Degrees
Cylinder Head End Bolts (1 Long)	
First Pass	62 (7)
Final Pass	120 Degrees
Engine Front Cover Bolt	89 (10)
Engine Front Cover Spacer Bolt	89 (10)
Generator Battery Lead Nut	80 (9)
Intake Manifold Bolt	89 (10)
Oil Level Indicator Tube Stud	89 (10)
Oil Pan Bolt (Ends)	89 (10)
Oil Pan Stud	97 (11)
Oil Pump Cover Bolt	89 (10)
Timing Chain Tensioner Guide Bolt	124 (14)
Timing Chain Top Guide Bolt	89 (10)
Transmission Fluid Tube to Air Adapter Nut	89 (10)
(1) Tighten in sequence. See <b>Fig. 225</b> .	
(2) Tighten in sequence. See <b>Fig. 226</b> .	



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**Fig. 225: Camshaft Main Bearing Bolt Tightening Sequence**  
 Courtesy of GENERAL MOTORS CORP.



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**Fig. 226: Cylinder Head Bolt Tightening Sequence**  
Courtesy of GENERAL MOTORS CORP.