

2004 Jeep Wrangler Rubicon

2004 ENGINES 2.4L DOHC 4-Cylinder - Wrangler

TORQUE SPECIFICATIONS**TORQUE SPECIFICATIONS**

Application	Ft. Lbs. (N.m)
Balance Shaft Carrier-to-Block Bolts	40 (54)
Balance Shaft Sprocket Bolt	21 (28)
Camshaft Sprocket Bolt	85 (115)
Connecting Rod Cap Bolts	20 (27) Plus 1/4 turn
Crankshaft Damper	100 (136)
Crankshaft Main Bearing Caps/Bedplate Bolts ⁽¹⁾	
Step 1	Insert Wedge ⁽²⁾
Step 2 Bolts (1-10)	30 (41)
Step 3	Remove Wedge
Step 4 Bolts (1-10)	30 (41)
Step 5	Additional 90 Degrees
Step 6 Bolts (11-20)	21 (28)
Step 7	Verify Turning Torque ⁽³⁾
Cylinder Head Bolts ⁽⁴⁾	
Step 1	25 (34)
Step 2	60 (82)
Step 3 (Repeat Step 2)	60 (82)
Step 4	Additional 90 Degrees (1/4 Turn)
Engine Mount Bracket Right (Front) Bolts	45 (61)
Engine Mount Bracket Left (Rear) Bolts	N/A
Exhaust Manifold to Cylinder Head Bolts	17 (23)
Flex Plate to Crankshaft Bolts	70 (95)
Flywheel Mounting Bolts	60 (81)
Intake Manifold Lower Bolts ⁽⁵⁾	21 (28)
Oil Filter	15 (20)
Oil Pan Drain Plug	20 (27)
Oil Pump to Block Bolts	21 (28)
Oil Pump Pick-Up Tube Bolt	20 (28)
Oil Pump Relief Valve Cap	30 (41)
Spark Plugs	21 (28) Max.
Timing Belt Tensioner Assembly Bolts	45 (61)
INCH Lbs. (N.m)	
Balance Shaft Gear Cover Double Ended Fastener	105 (12)
Balance Shaft Chain Tensioner Bolts	105 (12)
Balance Shaft Carrier Cover Bolts	105 (12)
Camshaft Bearing Cap Bolts ⁽⁶⁾	

Virtual Wrench

Wednesday, May 06, 2009 11:31:12 AM

Page 1

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M6	105 (12)
M8	250 (28)
Cylinder Head Cover Bolts ⁽⁷⁾	
Step 1	40 (5)
Step 2	80 (9)
Step 3	105 (12)
Exhaust Manifold Heat Shield Bolts	105 (12)
Oil Pan Bolts	105 (12)
Oil Pump Cover Plate Bolts	105 (12)
Timing Belt Covers	
Front to Rear	105 (12)
Rear	105 (12)

(1) Tighten in sequence. See **Fig. 165**

(2) Rotate number 4 piston to TDC. Force crankshaft rearward. Force crankshaft forward. Insert wedge between cylinder block and rear crankshaft counterweight.

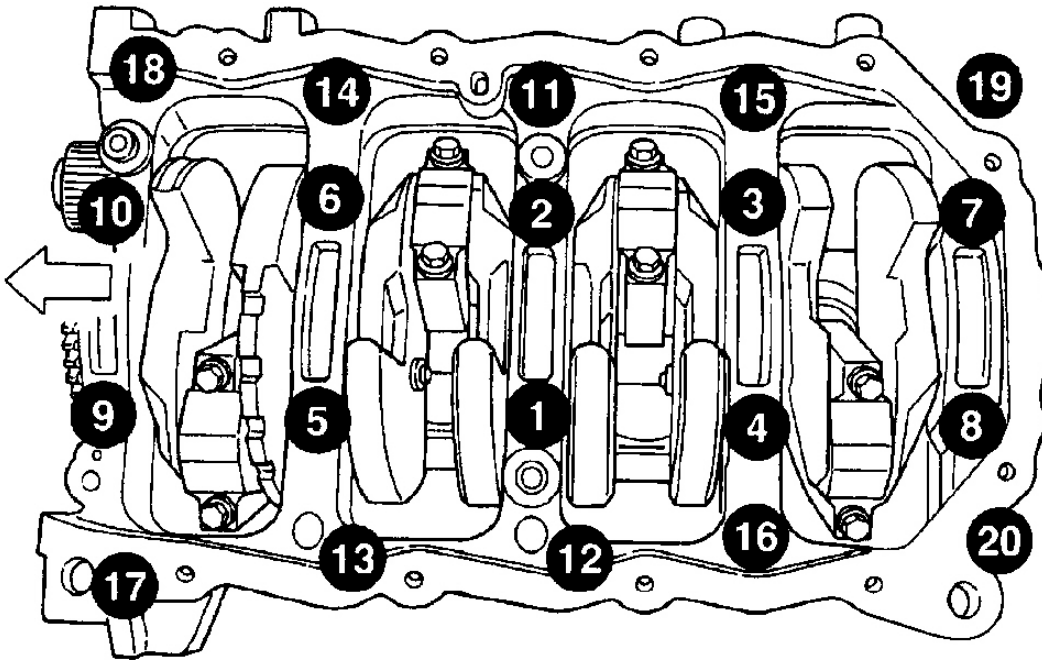
(3) Turning torque should not exceed 50 INCH (5.6 N.m.).

(4) Tighten in sequence. See **Fig. 166**

(5) Tighten in sequence. See **Fig. 167**

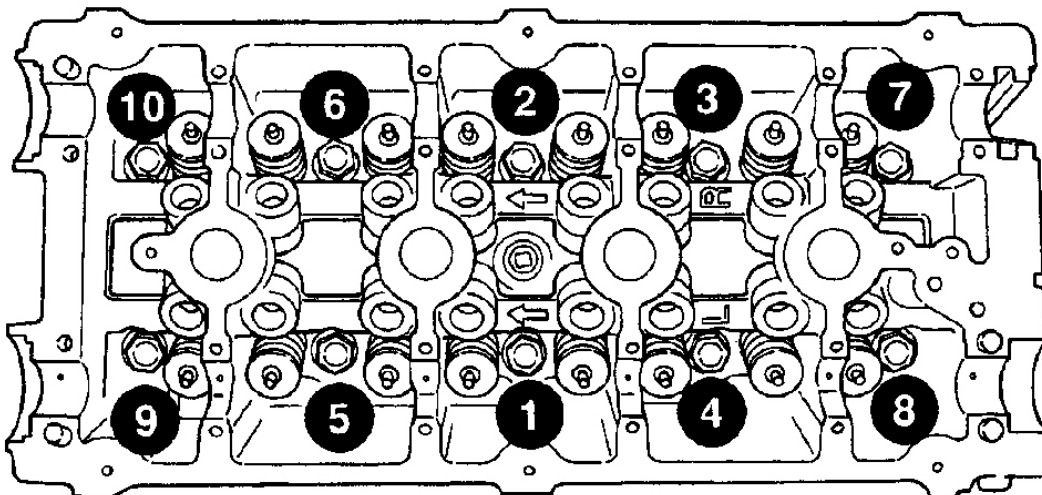
(6) Tighten in sequence. See **Fig. 168**

(7) Tighten in sequence. See **Fig. 169**



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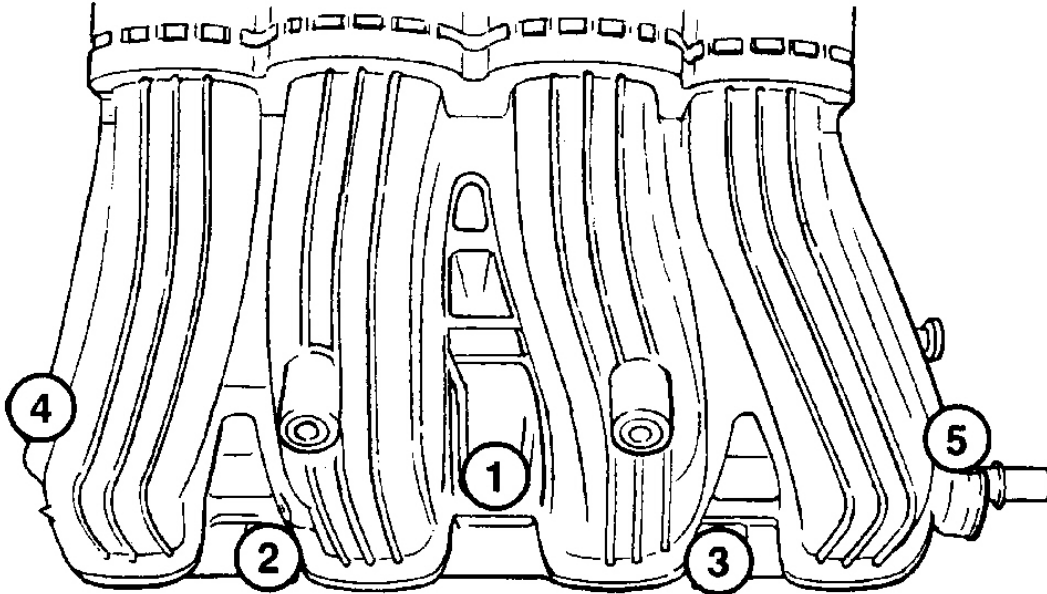
Fig. 165: Main Bearing Cap/Bedplate Bolt Tightening Sequence
Courtesy of CHRYSLER CORP.



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Fig. 166: Cylinder Head Bolt Tightening Sequence

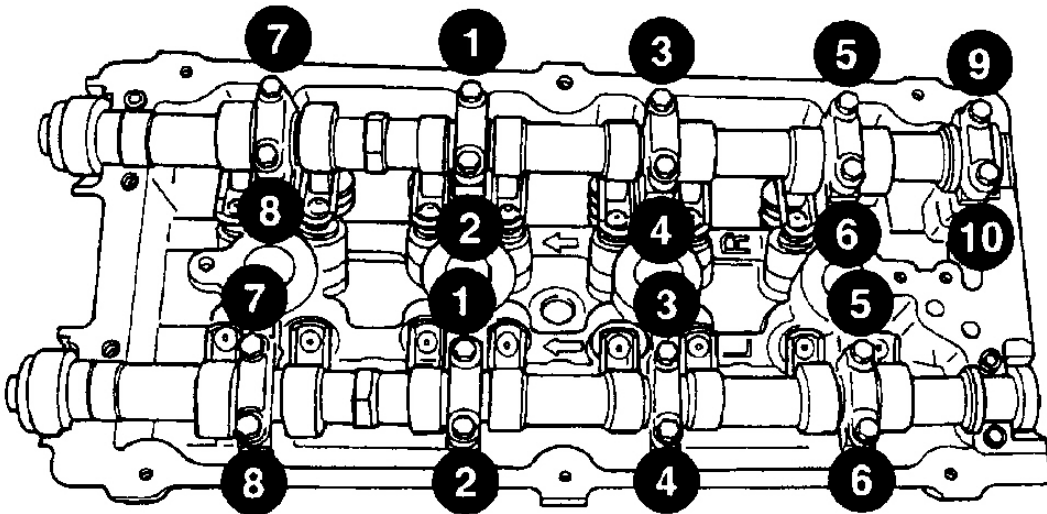
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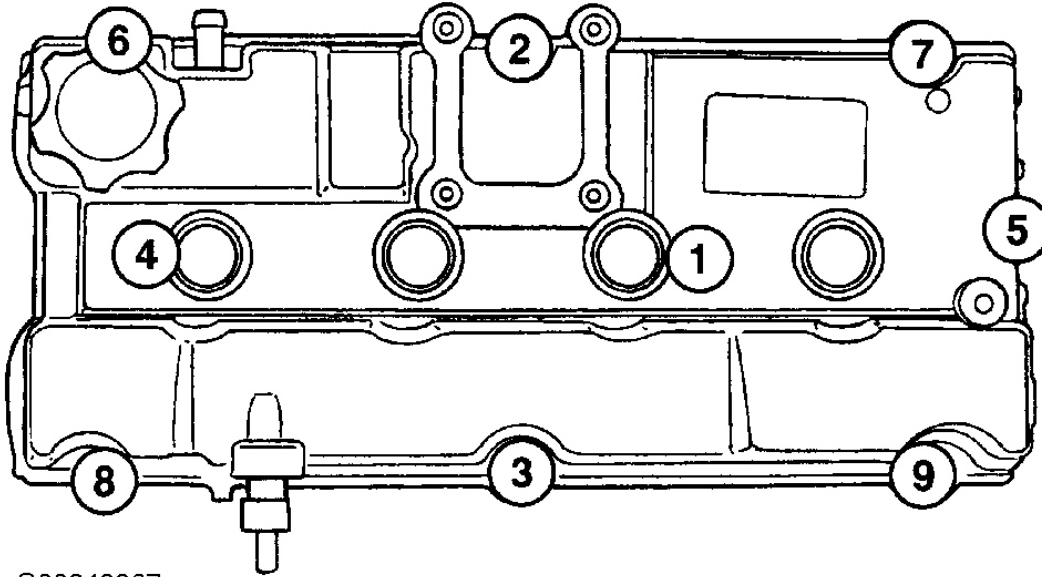
Fig. 167: Lower Intake Manifold Bolt Tightening Sequence

Courtesy of CHRYSLER CORP.



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Fig. 168: Camshaft Bearing Cap Bolt Tightening Sequence
Courtesy of CHRYSLER CORP.



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Fig. 169: Cylinder Head Cover Bolt Tightening Sequence
Courtesy of CHRYSLER CORP.