

PRODEMAND

YMMS: 1989 Ford Bronco II
 Engine: 2.9L Eng
 VIN:

Oct 28, 2020

License:
 Odometer:

TORQUE SPECIFICATIONS

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Application	Ft. Lbs. (N.m)
Camshaft Sprocket Bolt	19-28 (26-38)
Camshaft Thrust Plate Bolt	13-16 (18-22)
Connecting Rod Nut	19-24 (26-33)
Crankshaft Damper Bolt	85-96 (116-131)
Cylinder Head Bolt ⁽¹⁾	
1st Step	22 (30)
2nd Step	51-55 (69-75)
3rd Step	Pause 5 minutes
4th Step	Additional 90 degrees
Exhaust Manifold Bolt	20-30 (27-41)
Fan Clutch-to-Water Pump Nut ⁽²⁾	15-25 (20-34)
Flywheel-to-Crankshaft Bolt	47-52 (64-71)
Front Cover Bolt	13-16 (18-22)
Main Bearing Cap Bolt	65-75 (88-102)
Rocker Arm Shaft Bolt	43-50 (58-68)
Water Pump Pulley Bolt	15-22 (20-30)
INCH Lbs. (N.m)	
Lower Intake Manifold Bolt ⁽³⁾	
1st Step	Hand Start & Snug
2nd Step	36-72 (4-8)
3rd Step	72-132 (8-15)
4th Step	132-180 (15-21)
5th Step ⁽⁴⁾	180-216 (21-25)
Oil Pan Bolt	44-71 (5-8)
Oil Pump Case Bolt	80-115 (9-13)
Spark Plug	60-132 (7-15)
Throttle Body-to-Intake Bolt	80-115 (9-13)
Timing Chain	

Guide Bolt	80-115 (9-13)
Tensioner Bolt	80-115 (9-13)
Upper Intake Manifold Bolt	
1st Step	84 (10)
2nd Step	180-216 (21-25)
Valve Cover Bolt	36-60 (4-7)
Water Pump Bolt	84-108 (10-12)
(1) Tighten in sequence. See Figure.	
(2) Left-hand thread.	
(3) Sequence not available from manufacturer.	
(4) Repeat after warm up.	