

# 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 <sup>(1)</sup>	
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 <sup>(2)</sup>	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)
	<b>INCH Lbs. (N.m)</b>
Lower Intake Manifold Bolt <sup>(3)</sup>	
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 <sup>(4)</sup>	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.