



Torque dos Principais Parafusos dos Motores V8

Ford

260, 289, 302

Main cap bolts 60-70 ft.-lbs.

Outer main cap bolts, 35-40 ft.-lbs.

Connecting rod bolts 19-24 ft.-lbs. (40-45 ft.-lbs. for 289 HP Boss 302)

Cylinder head bolts 65-72 ft.-lbs.

Rocker arms 17-23 ft.-lbs.

Intake manifold bolts 23-25 ft.-lbs.

Oil pump bolt 23-28 ft.-lbs.

Cam bolts 40-45 ft.-lbs.

Cam thrust plate bolts 8-10 ft.-lbs.

Harmonic damper bolts 70-90 ft.-lbs.

Flywheel/flexplate bolts 75-85 ft.-lbs.

Pressure plate bolts 35 ft.-lbs.

Front cover bolts 12-15 ft.-lbs.

351W

Main cap bolts 95-105 ft.-lbs.

Connecting rod bolts 40-45 ft.-lbs.

Cylinder head bolts 90-100 ft.-lbs.

Rocker arms 17-23 ft.-lbs.

Intake manifold bolts 23-25 ft.-lbs.

Oil pump bolt 23-28 ft.-lbs.

Cam bolts 40-45 ft.-lbs.

Cam thrust plate bolts 8-10 ft.-lbs.

Harmonic damper bolt 70-90 ft.-lbs.

Flywheel/flexplate bolts 75-85 ft.-lbs.

Pressure plate bolts 35 ft.-lbs.

Front cover bolts 12-15 ft.-lbs.

351C, 351M

Main cap bolts 95-105 ft.-lbs.



Connecting rod bolts 40-45 ft.-lbs. (45-50 ft.-lbs. for Boss 351C)
Cylinder head bolts
(follow factory torque sequence) 105 ft.-lbs. (125 ft.-lbs. for Boss 351C)
Rocker arms (non-adjustable) 18-22 ft.-lbs.
5/16 in. intake manifold bolts 21-25 ft.-lbs.
3/8 in. intake manifold bolts 28-33 ft.-lbs.
Oil pump bolt 25 ft.-lbs.
Cam bolts 40-45 ft.-lbs.
Cam thrust plate bolts 9-12 ft.-lbs.
Harmonic damper bolt 70-90 ft.-lbs.
Flywheel/flexplate bolts 75-85 ft.-lbs.
Pressure plate bolts 35 ft.-lbs.
Front cover bolts 12-18 ft.-lbs.

429-460

Maincap bolts 95-105 ft.-lbs.
Connecting rod bolts 40-45 ft.-lbs.
Cylinder head bolts 140 ft.-lbs.
Rocker arms (non-adjustable) 18-22 ft.-lbs.
Intake manifold bolts 25-30 ft.-lbs.
Oil pump bolt 25 ft.-lbs.
Cam bolts 40-45 ft.-lbs.
Harmonic damper bolt 70-90 ft.-lbs.
Flywheel/flexplate bolts 75-85 ft.-lbs.
Pressure plate bolts 35 ft.-lbs.
Front cover bolts 12-18 ft.-lbs.

360, 390, 406, 427, 428 FE

Main cap bolts 95-105 ft.-lbs.
Crossbolts for 406 and 427 40 ft.-lbs.
Connecting rod bolts 40-45 ft.-lbs. (53-58 ft.-lbs. for 406 and 427)
Cylinder head bolts 80-90 ft.-lbs. (100-110 ft.-lbs. for 1963-67 427)
Rocker arm shaft bolts 40-45 ft.-lbs.
Intake manifold bolts 32-35 ft.-lbs.
Oil pump bolt 12-15 ft.-lbs.
Cam bolts 40-45 ft.-lbs.
Harmonic damper bolt 70-90 ft.-lbs.
Flywheel/flexplate bolts 75-85 ft.-lbs.



Pressure plate bolts 35 ft.-lbs.

Front cover bolts 12-15 ft.-lbs.

Chrysler

HEMI 426

Main cap bolts 100 ft.-lbs.

Main cap tie bolts 45 ft.-lbs.

Connecting rod bolts (7/16 in.) 75 ft.-lbs.

Cylinder head bolts (iron head) 70-75 ft.-lbs.*

Cylinder head bolts (aluminum head) 65-70 ft.-lbs.*

Camshaft cap screw (Street Hemi) 40 ft.-lbs.

Camshaft cap screw (Race Hemi) 75 ft.-lbs.

Rocker shaft bracket bolts 30 ft.-lbs. max

Harmonic damper bolt 135 ft.-lbs.

Flexplate bolts 70 ft.-lbs.

Torque converter to flexplate bolts 65 ft.-lbs.

Flywheel cap screws 70 ft.-lbs.

Clutch cover to flywheel bolts 30 ft.-lbs.

BIG CHRYSLER

383, 400, 440 B/RB Engines

Main cap bolts 85 ft.-lbs.

Connecting rod bolts (plain) 45 ft.-lbs.

Connecting rod bolts (heavy duty) 50-55 ft.-lbs.

Crankshaft rear bearing seal retainer bolts 30 ft.-lbs.

Cylinder head bolts 70 ft.-lbs.*

Rocker shaft bracket bolts 25 ft.-lbs.

Intake manifold bolts 40 ft.-lbs.

Oil pump cover bolt 10 ft.-lbs.

Oil pump attaching bolt 35 ft.-lbs.

Oil pan bolts 15 ft.-lbs.

Cam locking bolt 35 ft.-lbs.

Harmonic damper bolt 135 ft.-lbs.

Flywheel/flexplate bolts 55 ft.-lbs.

Flywheel housing to engine block bolts 50 ft.-lbs.

Flexplate to torque converter bolts 270 in.-lbs.

Water pump bolts 30 ft.-lbs.



Fuel pump bolt 30 ft.-lbs.
Starter mounting bolts 50 ft.-lbs.
Exhaust manifold nuts 30 ft.-lbs.

SMALL CHRYSLER

273, 318, 340, 360 A Engine

Main cap bolts 85 ft.-lbs.
Connecting rod bolts (plain) 45 ft.-lbs.
Cylinder head bolts, 273-318 85 ft.-lbs.*
Cylinder head bolts, 340-360 95 ft.-lbs.*
Rocker shaft bracket bolts 17 ft.-lbs.
Intake manifold bolts 35 ft.-lbs.
Oil pump cover bolt 95 in.-lbs.
Oil pump attaching bolt 35 ft.-lbs.
Oil pan bolts 15 ft.-lbs.
Cam locking bolt 35 ft.-lbs.
Cam thrust plate bolts 210 in.-lbs.
Harmonic damper bolt 135 ft.-lbs.
Flywheel/flexplate bolts 55 ft.-lbs.
Flywheel housing to engine block bolts 50 ft.-lbs.
Flexplate to torque converter bolts 270 in.-lbs.
Clutch housing bolts 30 ft.-lbs.
Front cover bolts 30 ft.-lbs.
Water pump bolts 30 ft.-lbs.

Chevy

Small Chevy

7/16 in. outer main cap bolt 65 ft.-lbs.
7/16 in. inner main cap bolt 70 ft.-lbs.
3/8 in. outer main cap bolt 40 ft.-lbs.
11/32 in. connecting rod bolt 38-44 ft.-lbs.
3/8 in. connecting rod bolt 40-45 ft.-lbs.
Cylinder head bolts 65 ft.-lbs.
Screw-in rocker arm studs 50 ft.-lbs.
Intake manifold bolts (cast iron heads) 30 ft.-lbs.
Oil pump bolt 60-70 ft.-lbs.
Cam sprocket bolts 18-20 ft.-lbs.



Harmonic damper bolt 60 ft.-lbs.
Flywheel/flexplate bolts 65 ft.-lbs.
Pressure plate bolts 35 ft.-lbs.
Bellhousing bolts 25 ft.-lbs.
Exhaust manifold bolts 25 ft.-lbs.

Big Chevy

Main cap bolt, 396-427 2-bolt 95 ft.-lbs.
Main cap bolt, 396-454 4-bolt (inner/outer) 110 ft.-lbs.
3/8 in. connecting rod bolt 50 ft.-lbs.
7/16 in. connecting rod bolt 67-73 ft.-lbs.
Cylinder head bolts, long 75 ft.-lbs.
Cylinder head bolts, short 65-68 ft.-lbs.
Screw-in rocker arm studs 50 ft.-lbs.
Intake manifold bolts (cast iron head) 25 ft.-lbs.
Oil pump bolt 65 ft.-lbs.
Cam sprocket bolts 20 ft.-lbs.
Harmonic damper bolt 85 ft.-lbs.
Flywheel/flexplate bolts 60 ft.-lbs.
Pressure plate bolts 35 ft.-lbs.
Bellhousing bolts 25 ft.-lbs.
Exhaust manifold bolts

Citação:

Legenda de Tradução:

Main cap bolt(s): parafuso do mancal (virabrequim)
Inner main cap bolts: parafusos dos mancais do meio (virabrequim)
Outer main cap bolts: parafusos dos mancais das extremidades (virabrequim)
Main cap tie bolts: parafusos de ancoragem do mancal (virabrequim)
Crankshaft rear bearing seal retainer bolts: parafusos do mancal de retenção
Connecting rod bolts: parafuso dos mancais de biela
Cylinder head bolts: parafusos dos cabeçotes
Rocker arms (bolts): parafusos dos balancins
Intake manifold bolts: parafusos do coletor de admissão
Oil pump bolts: parafusos da bomba de óleo
Oil pan bolts: parafusos do cárter
Cam locking bolt(s): parafuso do comando



Cam thrust plate bolts: parafusos da chapa de fixação do comando
Cam sprocket bolts: parafusos da engrenagem do comando
Front cover bolts: parafusos da tampa da corrente de comando
Harmonic dumper: parafuso da polia dumper (polia do virabrequim)
Flywheel/flexplate bolts: parafusos do volante
Pressure plate bolts: parafusos do platô
Bellhousing bolts: parafusos da carcaça ou capa seca (caixa de câmbio-motor)
Exhaust manifold bolts: parafusos dos coletores de escape
Starter mounting bolts: parafusos do suporte do arranque

Cuidado!

- 1- Sempre siga corretamente a sequência de apertos exigida pelo fabricante
- 2- Preste muita atenção na unidade de apertos (torque). Podem existir ft-lbs (libra -pé) que é igual a ft-pounds. Outra unidade que não podemos confundir é a in-lbs (libra-polegada). Nossa unidade padrão é o Nm (Newton metro). Para conversão, temos 1 ft-lbs = 1,4 Nm.