

M-6007-A50NA 5.0L Engine Assembly

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Please visit www.fordracingparts.com for the most current instruction information.

!!! PLEASE READ ALL OF THE FOLLOWING INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION.
AT ANY TIME YOU DO NOT UNDERSTAND THE INSTRUCTIONS, PLEASE CALL THE FORD RACING
TECHLINE AT 1-800-367-3788!!!

Note: Engine is shipped dry with no engine oil; do not start without adding engine oil.

Pilot bearing is provided but not installed to allow for an automatic transmission.

1) Technical Specifications M-6007-A50NA Crate Engine:

Engine Assembly Part Number

Engine Type Engine Weight Displacement Cylinder Block

Bore Stroke Firing Order Compression Ratio Maximum rated rpm Spark Plug (0.032 Gap)

Crankshaft Vibration Damper

Connecting Rod (14042R-8) Piston (part # 0930008101)

Camshafts Cam Timing

Camshaft Duration Int./Ex. Camshaft Lift Int./Ex.

Rocker Arm Cylinder Head Chamber Volume

Valve Head Diameter Int./Ex.

Oil Filter Oil Pressure

Max Oil Temperature Engine Oil (8.0 qts.)

Engine Coolant

Max Coolant Temperature

M-6007-A50NA

5.0L 4V TiVCT - 2011 Mustang

195.5 kg. (431 lbs) 4.957L, (302 ci) M-6010-A50L4V 92.2 mm (3.629 in) 92.7 mm (3.649 in) 1-5-4-8-6-3-7-2

11:1 6800 rpm M-12405-M50

Forged Steel, Internal Balance BR3E-6316-JA, Neutral Balance Manley Forged Steel w/ ARP2000 Bolts

Mahle Forged, dome Hydraulic Roller

Variable

Intake: 260°, Exhaust 263° Total Duration

Intake: 12mm, Exhaust 11mm

2:1 Ratio Aluminum 54.5-57.5 cc

37mm (1.45 in) / 31mm (1.22 in)

M-6731-FL820

80 psi @ 70°F/ 650 rpm

280° F

Motorcraft SAE 5W-50 Full Synthetic

XO-5W50-QGT or equivalent

Motorcraft Specialty Orange Engine Coolant

VC-3-B (US); CVC-3-B (Canada)

230° F

Factory Ford shop manuals are available from Helm Publications, 1-800-782-4356