



Builder: MEP

Engine: MEP-425LM

Submitted By: Dewayne McGunegill

Date: 1/30/2026

Max Cubic Inch	347
Max. Compression	10:1
Piston	Mahle # 930244730.35,40,50 Discontinued Mahle #'s SBF090030F06 / SBF090040F06
	2 Valve Relief Coated - Mahle Cast Inside Piston - 380 Grams Min.
Rings	MAH4035(40,45,50)-MS112
Wrist Pins	.927 - 115 Grams Min.
Connecting Rods	PBMCR5401 / PBMCR5406 / Scat2-1CR5400-927 / Scat2-ICR5400-7/16 - 5.400 - 500 Grams Min.
Block	Ford M-6010-Boss302 / Dart 31364175 / Dart 31374175 - Deck Height 8.195" Min
Bore	4.030-4.050"
Stroke	3.400 +/- .010
Main Journal Size	2.25
Intake	Pro. Prod. #54031 (Disc.1/20) - Speedmaster # 1-147-052 - Intake Runner Port Match First 1/4" Only
Crankshaft	PBM85072 / Scat 4-302-3400-5400-2123 - 46 lbs Min. Weight - Max. .020 Regrind
	Crank-Lightening Hole On Rod Pins - Manufacturers Part # Stamped On Front Counter Weight
Balance	External Balance Front - Internal Balance Rear
Heads	Dart # 132-100-10 Previous Part # 13200010 - Comb. Chambers 62cc Min. (+/- 4cc) - No Angle Mill
	Intake 186cc - Exhaust 65cc (+/- 4cc) - No cleanup work in In/Ex bowls or chambers - Heads
	produced before 5/09 were hand blended below valve seat. After 5/09 are CNC blended below valve
	seat, After 9/29/5 some are produced by Dart with hand blend and some with CNC blend below seat
Valves	FER6104-8 / MAN121MEP2 - FERF6103-8 / MAN121MEP1 - Stainless 2.02 / 1.600 - Seat Angle 45°
	Stem Undercut Dia. .315 +/- .010 - Valve Seal # 529V - 30 Degree Back Cut Angle Allowed
Valve Springs	PSILS # 1511ML / PAC # 1218x - 373 lbs - Wire Dia. .215
Valve Spring Height	1.800 Installed
Camshaft	Hydrallic Roller MEP # DMF-1A
Cam Lobe Lift	.320/.320
Cam Lobe Duration	230/230 @.050
Lifters	PBM # RL966 / ISKY 3877HYRT / Ford M6500-R302H
Rocker Arms	Crane # 44755-16 (1.5) / Scorpion # 1080 (1.5)
Push Rods	5/16"
Oil Pump	
Oil Pan	Kevko # F-201 / F-503 - 6.5" Deep Steel Pan - Dual Kick Out - No Louvered Trays

