

M-6049-SCJB SUPER COBRA JET CYLINDER HEAD - ASSEMBLED WITH DUAL SPRINGS w/ DAMPER Fits 429 and 460 ci engines (except BOSS 429)

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PRIOR TO INSTALLATION READ THESE INSTRUCTION COMPETELY For questions, Call the FORD PERFORMANCE Techline 1-800-367-3788

Please visit https://www.performanceparts.ford.com for warranty information

OVERVIEW:

This instruction sheet contains important information regarding dimensions and specifications of the M-6049-SCJB cylinder heads. These cylinder heads are equipped with valves that are on different locations, angles and are larger than stock, therefore piston to valve clearance <u>must</u> be checked. This check includes both radial and depth clearance checks. Radial clearance .060" minimum, depth on intake .080" and .120" on exhaust. These heads use stud mounted rocker arms, rocker arm to valve cover clearance must also be checked. These instructions should be reviewed by all engine builders, due to minor changes that could impact the engine assembly process.

CONTENTS/BILL OF MATERIALS:

PART #	DESCRIPTION	QUANTITY
PAC-L8027	VALVE KEEPER SET	8
741	VALVE RETAINER	8
M-6505-A429	EXHAUST VALVE	4
M-6507-B429	INTAKE VALVE	4
M-6566-SCJA	SCJ PUSHROD GUIDE PLATE	4
RRS-3MAN	ROCKER ARM STUD	8
42377	SPRING SEAT	8
PAC-1243	VALVE SPRINGS	8
VS-530V	VALVE STEM SEAL	8

FEATURES AND SPECIFICATIONS:

TEATORES AND STEELINEATIONS:	
Head material	A356 aluminum
Intake port location	Stock Super Cobra Jet
Intake port volume	290 сс
Intake valve part number	M-6507-B429
Intake valve head diameter	2.200"
Intake valve length	5.265"
Intake valve material	Stainless steel
Intake guide material	Manganese-bronze
Intake valve stem diameter	11/32"
Intake valve seat material	Ductile iron
Exhaust port location	Stock Super Cobra Jet
Exhaust port volume	148 cc
Exhaust valve part number	M-6505-A429
Exhaust valve head diameter	1.760"
Exhaust valve length	5.050"
Exhaust valve material	Stainless steel
Exhaust guide material	Manganese-bronze
Exhaust valve stem diameter	11/32"
Exhaust valve seat material	Ductile iron
Combustion chamber volume	72 cc
Valve spring locator	42377

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Valve springs
Valve spring installed height
Valve spring closed pressure
Valve spring open pressure
Retainer
Valve lock
Valve lock angle
Valve stem seal
Valve guide clearance intake
Valve guide clearance exhaust
Weight

PAC-1243

1.900" 240# (+/- 7) @ 1.900" 625# (+/- 20) @ 1.200" 741 PAC-8027 10 deg. VS-530V .0012-.0022" .0016-.0026" Approximately 36#

TYPICAL AIR FLOW

LIFT	INTAKE CFM	EXHAUST CFM
0.100	68.5	53.3615
0.200	134.1	95.59
0.300	197.5	131.93
0.400	264.3	167.455
0.500	317.4	187.8
0.600	324.1	195.625
0.700	324.1	203.45

RECOMMENDED PARTS

Intake gasket
Exhaust gasket
Valve covers
Engine block
Harmonic damper
Timing chain set
Water pump
mater parmp

Fel-Pro 1231 Fel-Pro 1420 M-6582-C460 M-6010-A460X or M-460-A460XBB (Big bore version) M-6316-A521 M-6268-B429 M-8501-C460 AGSP32C

RECOMMENDED TORQUE VALUES

Head bolt Intake manifold Exhaust manifold Valve cover Rocker studs Spark plugs 9/16-12 Head bolt torque is 135 lb*ft, torque in steps 70/105/135 lb*ft 35lb*ft, torque in steps 20/35 lb*ft 35 lb*ft, torque in steps 20/35 lb*ft 8-10 lb*ft 65 lb*ft 10-12 lb*ft

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