

Engine Specifications

Date 4/25/2012
Customer Donnie Baldwin

Engine Description

Displacement	<u>408"</u>
Compression ratio	<u>9.5:1</u>
Cylinder case	<u>GM 6.0L Iron</u>
P/N	<u>12572808</u>
Crankshaft	<u>Eagle 4340 4.0" stroke</u>
P/N	<u>434-64000-6100</u>
Connecting rods	<u>Eagle 6.125 H Beam</u>
P/N	<u>CRS6125D</u>
Pistons	<u>Wiseco 4.030" x 1.110" x - 20cc</u>
P/N	<u>K456X3</u>
Rings	<u>NPR GFX</u>
P/N	<u>4032GFX</u>
Main brgs	<u>Clevite H Series</u>
P/N	<u>MS2199H</u>
Rod brgs	<u>Clevite H Series</u>
P/N	<u>CB663HN</u>
Cam brgs	<u>Dura Bond one piece</u>
P/N	<u>CH-10</u>
Main cap fasteners	<u>ARP Main Studs</u>
P/N	<u>234-5608</u>
Camshaft	<u>Comp Cams cust supplied</u>
P/N	<u>54-478-11</u>
Timing set	<u>JP Double</u>
P/N	<u>7245</u>
Oil pump	<u>Melling HP</u>
P/N	<u>10295</u>

Clearances

Piston to bore	<u>.0037"</u>
Main brg. clearance	<u>.0027"</u>
Rod brg. clearance	<u>.0025"</u>
Ring end gap	<u>.024"</u>
top	<u>.026"</u>
2nd	
Rod side clearance	<u>.019"</u>
Crank endplay	<u>.004"</u>
Deck height	<u>9.225"</u>
Quench distance	<u>.040" w/.050" gasket</u>
Piston to valve	<u>int.</u>
exh.	
Cam Specs:	
Duration @ .050"	<u>235 251</u>
Lift.	<u>int. .621"</u>
exh.	<u>.624"</u>
Lobe separation	<u>115</u>
Intake center line	<u>112</u>
Valve lash	<u>hot n/a</u>
cold	<u>n/a</u>

****ASSEMBLE SHORTBLOCK**
***INSTALL CAM, FRONT COVER, REAR VALLEY, OIL PAN**
****DEGREE CAM**

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Engine Description (Continued)

Balance Card

Cylinder head	
fasteners	_____
P/N	_____
Head gaskets	_____
P/N	_____
Lifters	_____
P/N	_____
Push rods	_____
P/N	_____
Rocker arms	_____
P/N	_____
Intake manifold	_____
P/N	_____
Throttle body	_____
P/N	_____
Injectors	_____
P/N	_____
Covers	_____
Front	_____
P/N	_____
Rear	_____
P/N	_____
Valley	_____
P/N	_____
Oil pan	_____
P/N	_____
Balancer	_____
P/N	_____
Misc.	_____

Rod rot.	_____	448
Rod rot.	_____	448
Piston/pin	_____	542.5
Rings	_____	36.5
Locks	_____	4
Brgs.	_____	86
Oil	_____	5
Rod rec.	_____	173.5
Total bob weight (g)	_____	1743.5

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Cylinder Head Description

Casting	_____
Intake valves	_____
P/N	_____
Exhaust valves	_____
P/N	_____
Springs	_____
P/N	_____
Installed height	_____
Coil bind	_____
Seat Pressure	_____
(lbs)	_____
Open Pressure	_____
(lbs)	_____
lbs	_____
P/N	_____
Retainers	_____
P/N	_____
Locators	_____
P/N	_____
Keepers	_____
P/N	_____
Valve seals	_____
P/N	_____
Combustion chamber volume	_____
Misc. Info	_____

Suggested Engine Break-in Procedure

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MUST have baseline tuneup before initial startup
LME recommends not driving the vehicle until engine is properly dyno tuned
Make sure all fluids are topped off before initial startup
MUST use NONSYNTHETIC oil for first 1000 miles
 Joe Gibbs BR30 (10W-30) break In oil Recommended
 Change oil before dyno tuning
 Change oil after first 500 miles
 Change oil again after 1000 miles
 After 1000 mile break-in is complete, full synthetic oil is permitted
Double/triple check all fluid levels
Some oil consumption is normal during break-in
 Check oil level frequently until break-in is completed

For Solid Roller Engines

Must check lash setting while engine is hot
Check lash setting again after 500 miles
Refer to buildsheet for proper lash setting

For Copper Head Gasket Engines

Call LME for proper start-up procedure

Late Model Engines
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