



17 Dracut Road · Hudson, NH 03051 · (800) 591-9171 · www.golenengineservice.com
questions@golenengineservice.com

LS3 416ci 605hp



The 416ci makes max power and torque with a hydraulic cam which is very street able but also gives you the sound you are looking for!!

Peak Horsepower: 605bhp @ 6300 rpm
Peak Torque: 570lb/ft @ 5000 rpm
Compression Ratio: 11:1

Operating Range: 2300 – 6300rpm

Required Fuel: 91+ Octane Pump Gasoline

Block Specifications:

Block:

- New GM LS3 Aluminum Block
- Zero Decked
- Bored 4.070"
- Honed with Torque Plates and Pressure Washed
- New Durabond Cam Bearings Installed
- Line Honed
- ARP Main Studs

Pistons:

- Mahle Forged pistons with Anti-Friction Coating

Bearings:

- Clevite H-Series Main and Rod Bearings

Lifters:

- Comp Cams Hydraulic Roller

Covers:

- GM Oil Pan
- GM Timing Cover
- GM Rear Cover
- GM Lifter Valley Cover
- GM Valve Covers

Crank:

- Callies Comp Star 4340 Forged Steel
- 4.000" stroke
- Internally Balanced Front and Rear

Rods:

- Callies Comp Star 4340 Forged H-Beam
- 6.125" length
- ARP 2000 Rod Bolts

Rings:

- Mahle Plasma rings

Camshaft:

- Comp Cams Hydraulic Roller

Timing Set:

- GM LS2 Single Roller

Oil Delivery:

- Melling Select Performance
- GM Pick Up Tube
- GM Windage Tray



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Damper:

- Powerbond SFI
- ARP Damper Bolt

Gaskets:

- GM MLS Head Gaskets .050"
- GM Cover Gaskets

Cylinder Head Specifications:

Type:

- GM LS3 Aluminum Bowl Ported
- Three angle performance valve job

Combustion Chamber:

- 70cc

Intake Valves:

- Manley Stainless Steel 2.16"

Flow:

- 340CFM @ .600" Lift

Exhaust Valves:

- Manley Stainless Steel 1.59"

Spring Kit:

- Polished Double Valve Spring
- Light Weight Tool Steel Retainers and Hardened Locks

Head Bolts:

- ARP Performance

Rocker Arms:

- GM Factory 1.7 Ratio

Intake System:

- GM Factory LS3 Intake
- GM DBW Silver Blade Throttle Body
- Fast 40lb Uscar Fuel Injectors
- GM Factory Fuel Rails

Pushrods:

- Smith Brothers 5/16 .083" Wall Hardened

Ignition System:

- MSD 8.5mm Plug Wires
- Autolite Racing Spark Plugs

Dyno Test Service:

- Run Engine for Full Break In and Power Test
- 2 Oil Changes using Joe Gibbs Break In Oil
- Graphs Listing HP, Torque and all Engine Vitals

Notes:

Here are Golen Engine we build each LS Street engine with the same meticulous process used in our line of racing engines to ensure top quality performance and reliability throughout its lifetime.

When you purchase one of our LS HP or Hot Rod Series Street Engines you will receive a full spec sheet listing the exact components your engine was built with. We will also provide you with a complete Set Up Guide as well as full phone tech support to aid you with the installation process. It is mandatory for you to contact Golen Engine Tech Support before starting your engine for the first time and you can reach our Tech Support Line at 1-800-591-9171 ext 2.



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Each Golen Engine Performance Street Engine comes standard with a “Three Year no Mileage Limit Warranty” to keep you confident and covered!

We are able to custom build your engine to match just about any specs you desire and offer a long list of proven upgrades, so if you do not see it just ask us!

Feel free to contact us anytime for help choosing the perfect performance engine combination!!

Thank you,

Golen Engine



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