



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

LS7 427ci 650hp



The 427ci 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: 650bhp @ 6700 rpm
Peak Torque: 600lb/ft @ 5200 rpm
Compression Ratio: 11.5:1

Operating Range: 2500 – 6700rpm

Required Fuel: 91+ Octane Pump Gasoline

Block Specifications:

Block:

- New GM LS7 Aluminum Block
- Zero Decked
- Bored 4.130"
- 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 Corvette Dry Sump or Wet Sump
- 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:

- Cloyes Billet Roller Hex Adjust 4X

Oil Delivery:

- Katech Performance Dry Sump or Melling Wet Sump
- 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:

- Trick Flow LS7 Aluminum CNC Ported

Combustion Chamber:

- 70cc

Intake Valves:

- Stainless Steel 2.20"

Flow:

- 365CFM @ .650" Lift

Exhaust Valves:

- Stainless Steel 1.65"

Spring Kit:

- Polished Double Valve Spring
- Titanium Retainers and Hardened Locks

Head Bolts:

- ARP Performance

Rocker Arms:

- GM Factory 1.8 Ratio

Intake System:

- GM Factory LS7 Intake
- 90mm Throttle Body DBW
- Fast 40lb Uscar Fuel Injectors
- GM Factory Fuel Rails

Pushrods:

- Smith Brothers 3/8 .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



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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.

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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