



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

LSx 454ci 725hp Hot Rod Turn Key Engine



The 454ci 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: 725bhp @ 6700 rpm
Peak Torque: 650lb/ft @ 5200 rpm
Compression Ratio: 11.5:1

Operating Range: 2500 – 6700rpm

Required Fuel: 91+ Octane Pump Gasoline

Base Price: \$19,999

Block Specifications:

Block:

- New GM LSx Cast Iron Block
- Zero Decked
- Bored 4.185"
- Honed with Torque Plates and Pressure Washed
- New Durabond Cam Bearings Installed
- Line Honed
- ARP Main Studs

Pistons:

- Diamond Forged pistons with Anti-Friction Coating

Bearings:

- ACL H-Series Main and Rod Bearings

Lifters:

- Comp Cams Hydraulic Roller

Covers:

- GM Oil Pan (Camaro, Corvette, GTO or Truck)
- GM Timing Cover
- GM Rear Cover
- GM Lifter Valley Cover
- GM Valve Covers

Crank:

- Callies 4340 Forged Steel
- 4.125" stroke
- Internally Balanced Front and Rear

Rods:

- Callies 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:

- 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

Type:

- Factory GM LS7 Aluminum CNC Ported
- Three angle performance valve job

Cylinder Head Specifications:

Combustion Chamber:

- 70cc
- CNC Ported Combustion Chambers

Intake Valves:

- Manley Severe Duty Stainless Steel 2.20"

Flow:

- 365CFM @ .650" Lift

Exhaust Valves:

- Manley Extreme Duty Inconel 1.65"

Rocker Arms:

- GM Factory LS7 1.8 Ratio

Head Bolts:

- ARP Performance

Pushrods:

- Smith Brothers 3/8 .083" Wall Hardened

Intake System:

- GM Single Plane Aluminum EFI
- Holley 4bbl 1000cfm Billet Throttle Body
- Fast 50lb Uscar Fuel Injectors
- Fast Billet Fuel Rails
- K&N Air Filter
- Stainless Steel Intake Bolts

EFI System:

- Holley HP Series Complete EFI
- Fully Programmed ECU, Dyno Tested
- Self Learning Fuel System (Comes tuned and ready to run)
- Marine Grade Wiring Harness
- Comes with all Sensors to Run Engine
- Windows Based Software with USB Cable
- Full EFI Tech Support

Water Pump:

- GM Factory Water Pump to Match Your Car
- 160° Thermostat

Ignition System:

- GM LS7 Factory Coils
- MSD 8.5mm Plug Wires
- Autolite Racing Spark Plugs

Front Accessories:

- Full Serpentine Pulley System
- Polished Billet Brackets and Pulleys
- Polished Alternator, AC and PS

Flywheel:

- SFI Approved Flex Plate (Std Flywheel Available as option)
- ARP Flywheel Bolts

Dyno Test Service:

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

Starter:

- GM Factory LS Starter
- GM Factory Starter Bolts



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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.

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