LT5 Performance Upgrade Paths

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LT5 Performance Upgrade Paths

The availability of bolt on performance parts for the LT5 is quite limited:

- About four types of exhaust systems
- Engine calibration chip
- Headers
- Rear axle gears
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Major Upgrades

• Upgrades can be performed in a logical progression
• Or as a not so logical progression. If that’s what you want.
• Or in the form of a package
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Logical upgrade path for a 350 ci engine:

1. Low back pressure exhaust system. About +10 hp ’90-’92. About 5 hp ’93-’95.
3. Gearing change. With a 4.10 ratio. 19% more torque to the wheels.
8. I don’t recommend a camshaft upgrade for a 350
The prices in this presentation were in effect in May ’2015. They may change with time.
338.4 whp / .85 = 398 chp

429.4 whp / .85 = 505 chp

435.66 Wheel HP / .85 (15% drive line loss factor) = 513 Crankshaft HP


RunFile_004.dfr - 3/20/2014 12:50:30 PM  Run Type: RO  Run Conditions: 78.67 °F, 29.51 in-Hg, Humidity: 22%, SAE: 1.00
Max Power = 435.66  Max Torque = 379.84
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Upgrade to a 368 ci engine

• If the starting point is a maxed out 350 with 510 hp, the added displacement will take the engine to 540 hp.
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Cost for a 368 ci engine

- Upgrade a stock 350 to a 540 hp 368. $16,900

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The 378 ci 565 hp engine

- Offset grind the OE crankshaft to go from 3.66” to 3.76” stroke
- The performance increase comes from the increased displacement and lighter connecting rods

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Cost for a 378 ci engine

- Upgrade a stock 350 to a 565 hp 378. $18,975

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Upgrade to a 415 ci engine

- Stock cams will provide 600 hp
- Stage I cams will add 25 hp for 625 hp
- Stage II cams will add 40 hp for 640 hp
- Stage III cams will add 50 hp for 650 hp

The camshafts are dependant on availability
With Nitrous Boost.
Run 004. 680.58 Wheel HP / .85 (15% drive line loss factor)
= 801 Crankshaft HP.

Normally Aspirated.
Run 002. 571.98 Wheel HP / .85 (15% drive line loss factor)
= 673 Crankshaft HP.

Lodell Park's '95 415 CI 650 HP Engine Package. Plus, 125 HP Wet Nitrous Oxide Injection.
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Cost for a 415 ci engine

- Stock engine to 415 ci 600 hp. $24,500
- Stock engine to 415 ci 625, 640 or 650 hp. $29,900

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