

Harrop Engineering develops and manufactures premium supercharger systems in Melbourne, Australia and Dayton, Ohio USA. Through almost 70 years of automotive performance Engineering, Harrop have successfully manufactured and supplied Superchargers to Automotive OEM programmes including TRD, Lotus Cars and Ford Australia. Harrop Engineering is certified to meet ISO 9001 quality standards. OEM quality level, performance and vehicle integration are the foundation features of Harrop Supercharger kits.



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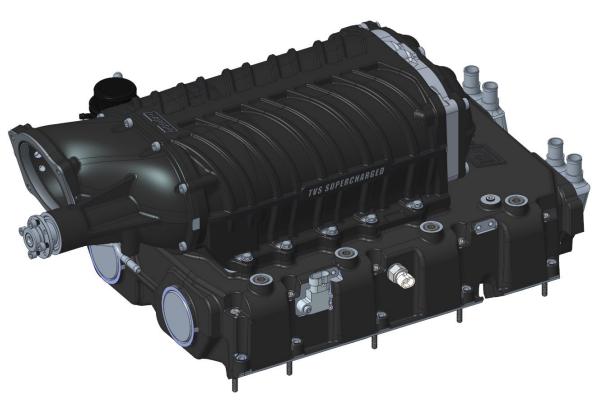
Tech Guide

LT TOP MOUNT TVS2650 SUPERCHARGER



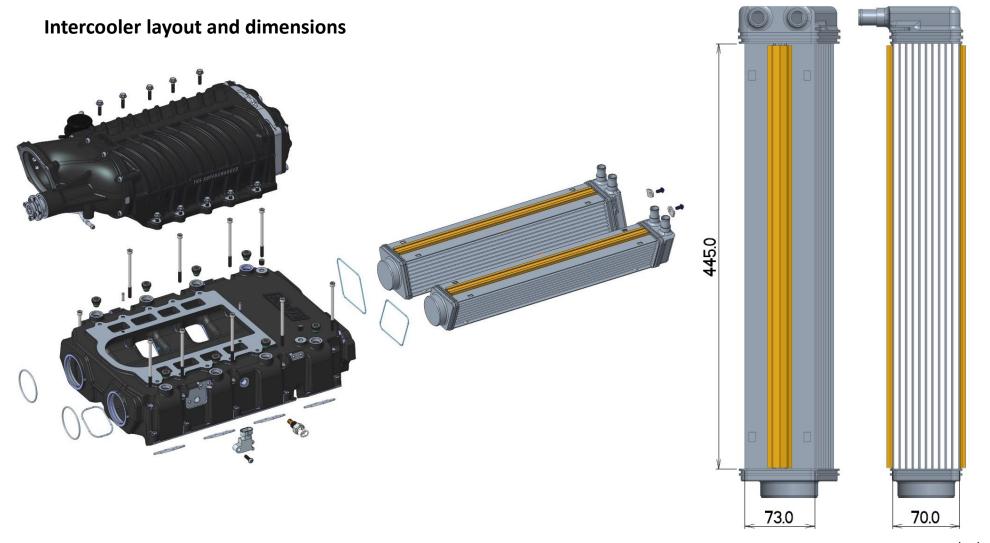
Key Features:

- High efficiency TVS2650 supercharger
- Drilled for LT1 and LT4 cylinder heads
- Bypass valve integrated for increased efficiency at low engine loads
- Twin dual pass intercooler cores
- 17mm inlet and outlet on each intercooler
- 2.7 bar MAP sensor GM 12592525
- IAT sensor GM 25037388
- 1/8" BSPT boost referenced ports
- Retains OEM direct injection functionality
- Optional port injection kit
- Pulley options to suit L87, L8T and LT4 engines
- Choice of 5 different front covers to suit various airbox and throttle needs
- Manifold assembly part number 99-AMFD14272



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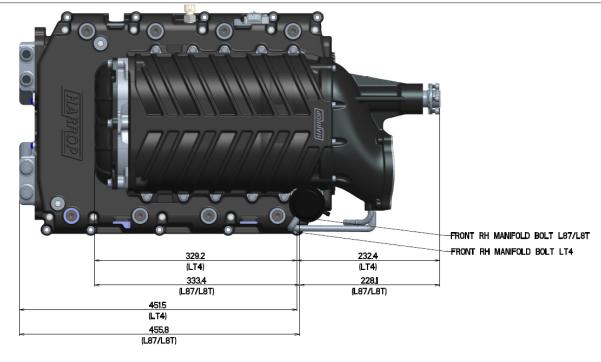


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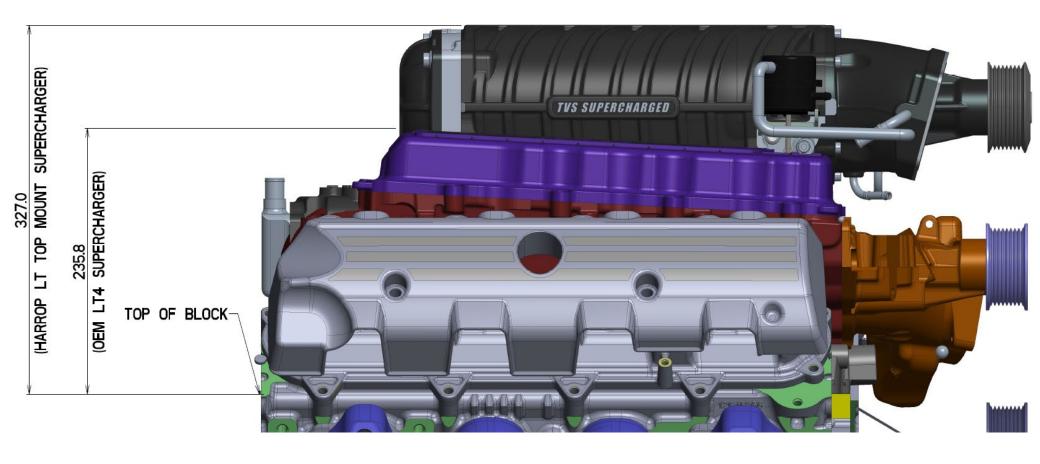




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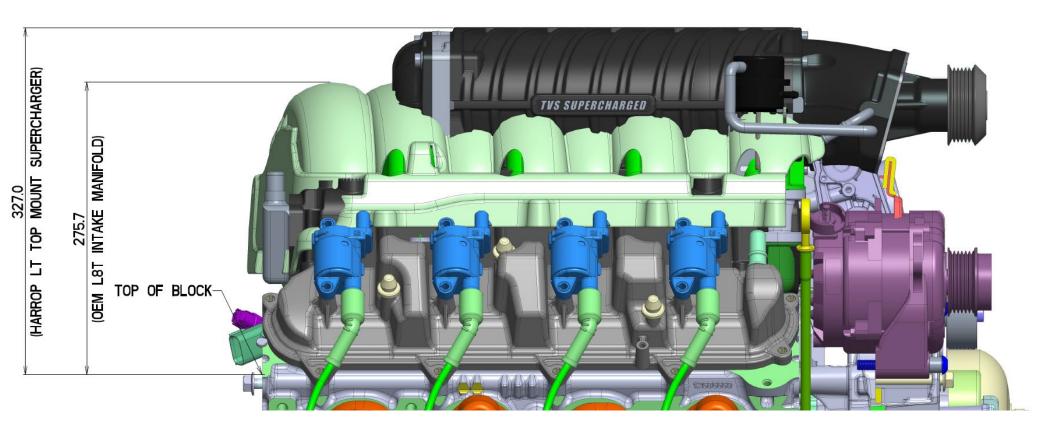
Harrop LT Top Mount supercharger vs OEM LT4 Supercharger



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Harrop LT Top Mount Supercharger vs OEM L8T Intake Manifold



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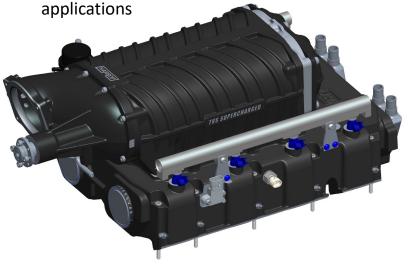
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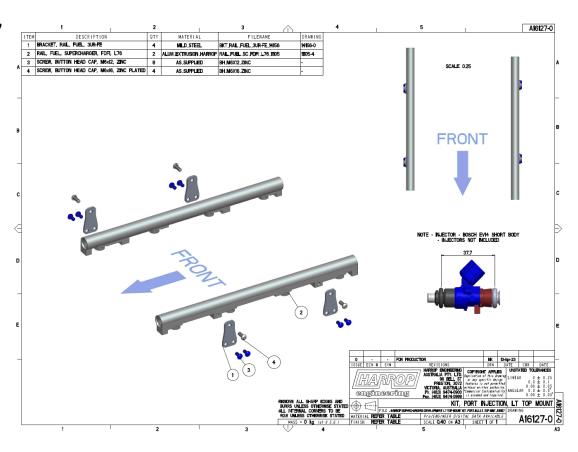
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Port Injection Kit optional, P/N 99-AKIT16127

- Includes fuel rails, mounts and all required mounting hardware
- Can be used in conjunction with OEM DI fuel system
- -8 ORB both ends of rail for fuel line installation flexibility
- Suits Bosch EV14 compact injectors
- Replacement of DI injectors with solid injector plugs is required for port injection only





23/04/2025



Supercharger Front Cover Options





99-ACVR13167
Straight facing to suit LS/LT 90 to 103mm TB



99-ACVR13169
Integrated 110mm throttle electronic actuation



99-ACVR14983
Integrated 110mm throttle cable actuation



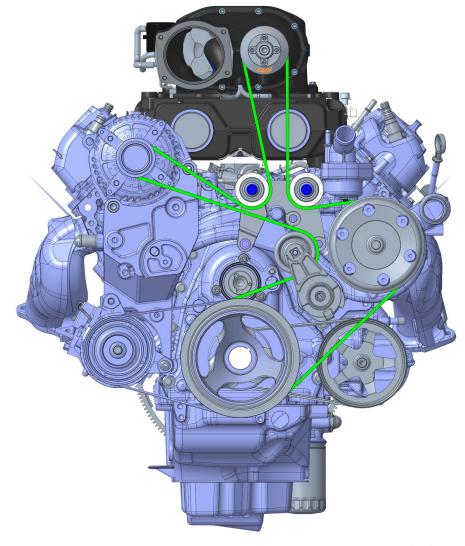
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Belt Drive Configurations L83/L86

• Requires idler mount 99-ABKT14387.

| Supercharger pulley | Belt | | | |
|---------------------|---------|--|--|--|
| 99-PLY16133 70mm | 6PK2448 | | | |
| 99-PLY16134 75mm | 6PK2448 | | | |
| 99-PLY16135 80mm | 6PK2465 | | | |
| 99-PLY16136 85mm | 6PK2465 | | | |
| 99-PLY16137 90mm | 6PK2480 | | | |



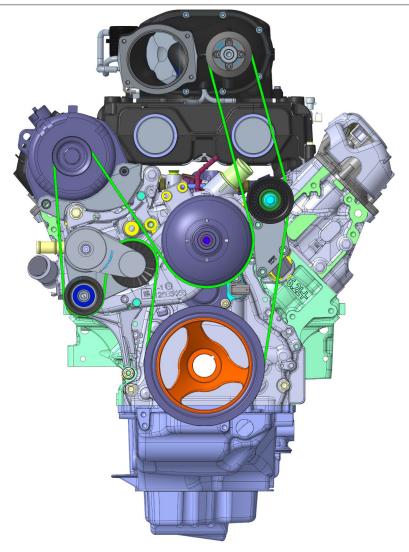
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Belt Drive Configurations L84/L87

 Engine kit 99-EK-A16767 consisting of alternator relocation bracket, tensioner mount and additional idler mount required.

| Supercharger pulley | Belt | | | |
|---------------------|---------|--|--|--|
| 99-PLY16128 70mm | 6PK2405 | | | |
| 99-PLY16129 75mm | 6PK2405 | | | |
| 99-PLY16130 80mm | 6PK2415 | | | |
| 99-PLY16131 85mm | 6PK2430 | | | |
| 99-PLY16132 90mm | 6PK2430 | | | |



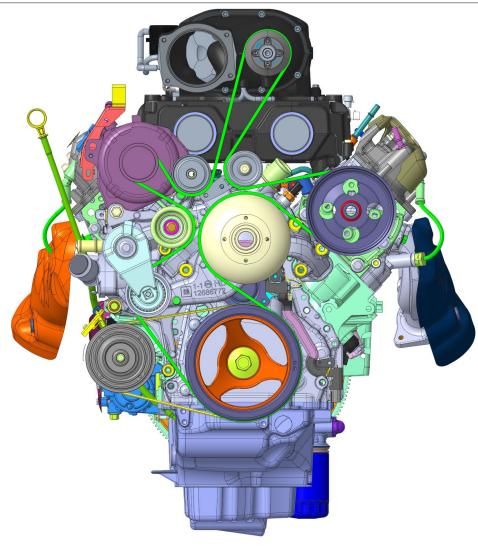
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Belt Drive Configurations L8T 6PK

 To suit a 6PK belt drive, engine kit 99-EK-A16768 consisting of two additional idlers and their respective mounts is required (as shown on right).

| Supercharger pulley | Belt | | | |
|---------------------|---------|--|--|--|
| 99-PLY16133 70mm | 6PK2590 | | | |
| 99-PLY16134 75mm | 6PK2605 | | | |
| 99-PLY16135 80mm | 6PK2605 | | | |
| 99-PLY16136 85mm | 6PK2615 | | | |
| 99-PLY16137 90mm | 6PK2620 | | | |



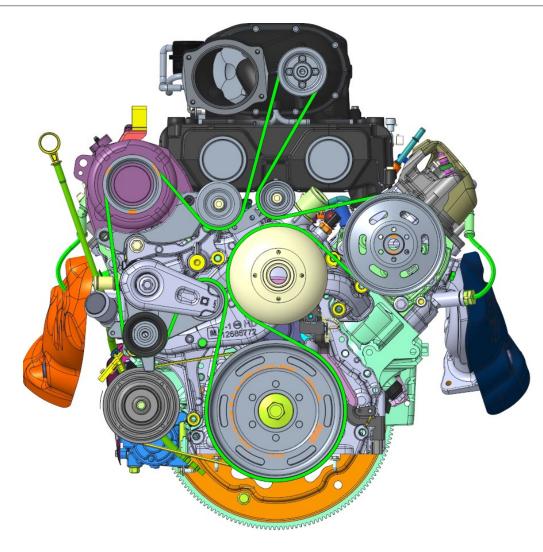
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Belt Drive Configurations L8T 8PK

- To suit an 8PK belt drive, engine kit 99-EK-A16769 consisting of 210mm 8PK crank pulley, alternator relocation bracket, tensioner, tensioner mount and additional idlers, is required. ATI 917306 balancer is also required.
- To upgrade from the 6PK belt drive setup to 8PK, 99-AKIT16796 is required which includes the above components. ATI 917306 balancer is also required.

| Supercharger pulley | Belt |
|---------------------|-----------|
| 99-PLY16133 70mm | 8PK2800HD |
| 99-PLY16134 75mm | 8PK2855HD |
| 99-PLY16135 80mm | 8PK2855HD |
| 99-PLY16136 85mm | 8PK2855HD |
| 99-PLY16137 90mm | 8PK2855HD |



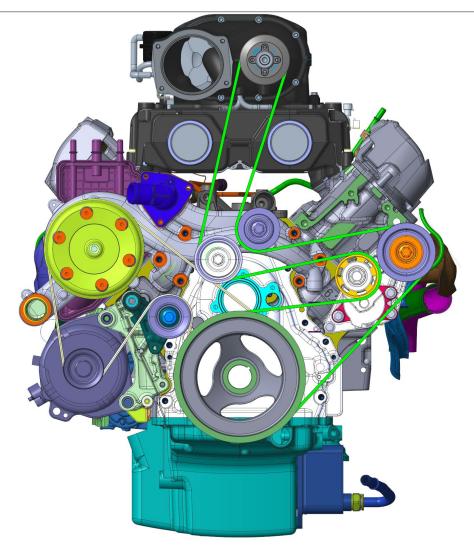
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Belt Drive Configurations LT4

• Only suits wet sump LT4 belt drive setup, does not suit dry sump LT4 belt drive setup.

| Supercharger pulley | Belt | | | |
|---------------------|-----------|--|--|--|
| 99-PLY16762 70mm | 8PK2414HD | | | |
| 99-PLY16763 75mm | 8PK2414HD | | | |
| 99-PLY16764 80mm | 8PK2430HD | | | |
| 99-PLY16765 85mm | 8PK2430HD | | | |
| 99-PLY16766 90mm | 8PK2440HD | | | |



23/04/2025



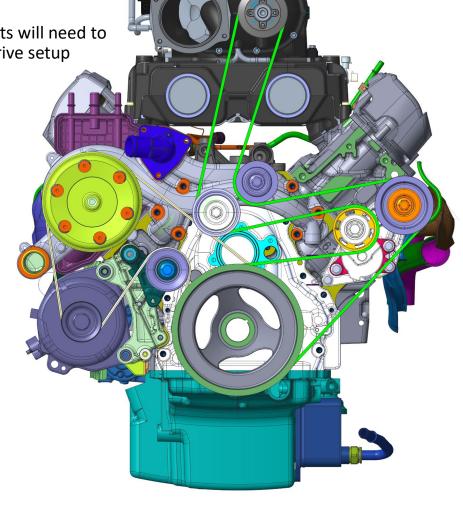
Belt Drive Configurations LT1

• For use with wet sump LT1 belt drive setups, the following parts will need to be installed to convert the belt drive to a wet sump LT4 belt drive setup

• Does not suit wet sump LT1 belt drive setups

| GM Part Number | Quantity | Notes |
|----------------|----------|---|
| 11588730 | 2 | M8x1.25x60, tensioner bracket to block |
| 11588754 | 2 | M10x1.5x105, tensioner bracket to cylinder head |
| 11610074 | 3 | M8x1.25x45, tensioner to tensioner bracket |
| 12692675 | 1 | Tensioner bracket |
| 12663624 | 1 | Tensioner |
| 12678515 | 1 | Grooved idler on water pump |
| 12665845 | 1 | Smooth idler on water pump |
| 12678295 | 1 | Grooved idler on tensioner bracket |
| 12713718 | 1 | Crank balancer |
| 11547372 | 1 | Crank balancer bolt |

| Supercharger pulley | Belt | | |
|---------------------|-----------|--|--|
| 99-PLY16762 70mm | 8PK2414HD | | |
| 99-PLY16763 75mm | 8PK2414HD | | |
| 99-PLY16764 80mm | 8PK2430HD | | |
| 99-PLY16765 85mm | 8PK2430HD | | |
| 99-PLY16766 90mm | 8PK2440HD | | |

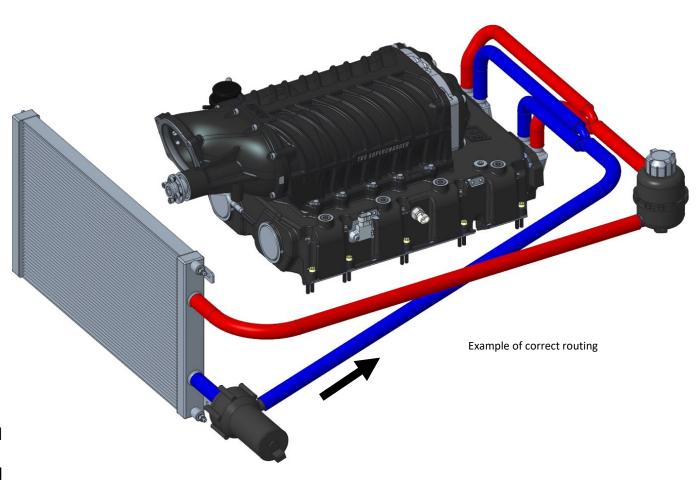


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Intercooler Routing

- Intercooler kit 99-AINT16795 is an optional kit the includes moulded hoses from the supercharger, 4 metres of ¾" hose, reservoir bottle, a large 560x305x40mm radiator, electric coolant pump, wiring loom, hardware and mounts.
- Black arrow indicates flow direction.
- Intercooler reservoir must be mounted at the highest point in the circuit.
- Intercooler pump must be mounted below the bottom outlet of the reservoir.
- Intercooler system must be filled with a 1:1 mix of GM6277M coolant concentrate and distilled or deionised water.



23/04/2025



Performance Figures

| criorinance r | Baics | | | | | | |
|---|---|-------------------|--------------------------|----------------------------|-------------|---|-----------|
| ENGINE | COMPONENTS | POWER CORRECTION | POWER | TORQUE | BOOST | PULLEY RATIO | FUEL |
| 6.6L L8T | Factory engine | SAE J1349 2004 | 401 hp @ 5200 RPM | 464 lb ft @ 4000 RPM | N/A | N/A | 91 RON |
| 6.6L L8T and Harrop LT Top Mount TVS 2650 Supercharger | Forged Rods and Piston 11:1 CR Factory Heads Ported BTR Gen V Stage 2 PD Cam | SAE J1349 2004 | 867 hp @ 6300 RPM | 756 lb ft @ 5500 RPM | 11 PSI | 80mm SC pulley 187mm crank pulley 2.34:1 6PK Drive | 98 RON |
| 6.6L L8T and Harrop LT Top Mount TVS 2650 Supercharger | Forged Rods and Piston 11:1 CR Factory Heads Ported BTR Gen V Stage 2 PD Cam | SAE J1349 2004 | 939 hp @ 6300 RPM | 788 lb ft @ 5900 RPM | 11 PSI | 80mm SC pulley 187mm crank pulley 2.34:1 6PK Drive | E85 |
| 6.6L L8T and Harrop LT Top Mount TVS 2650 Supercharger | Forged Rods and Piston 11:1 CR Factory Heads Ported BTR Gen V Stage 2 PD Cam | SAE J1349 2004 | 1006 hp @ 7000 RPM | 803 lb ft @ 6000 RPM | 12.5 PSI | 85mm SC pulley 205mm crank pulley 2.41:1 8PK Drive | E85 |
| 6.6L L8T and Harrop LT Top Mount TVS 2650 Supercharger | Forged Rods and Piston 11:1 CR Factory Heads Ported BTR Gen V Stage 2 PD Cam | SAE J1349 2004 | 1047 hp @ 7000 RPM | 844 lb ft @ 5900 RPM | 14.5 PSI | 80mm SC pulley 205mm crank pulley 2.56:1 8PK Drive | E85 |
| 6.6L L8T and Harrop LT Top Mount TVS 2650 Supercharger | Forged Rods and Piston 11:1 CR Factory Heads Ported BTR Gen V Stage 2 PD Cam | SAE J1349 2004 | 1078 hp @ 7000 RPM | 876 lb ft @ 6000 RPM | 16.2 PSI | 75mm SC pulley 205mm crank pulley 2.73:1 8PK Drive | E85 |

Power figures measured at flywheel on engine dyno. Visit HarropTV to see the LT top mount supercharger in action https://youtu.be/mi3IPAC0Eig

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