

Tech Guide

TVS2650 LT4 Inverted Supercharger kit



Harrop TVS2650 LT4 Corvette/Camaro/CTS-V kit



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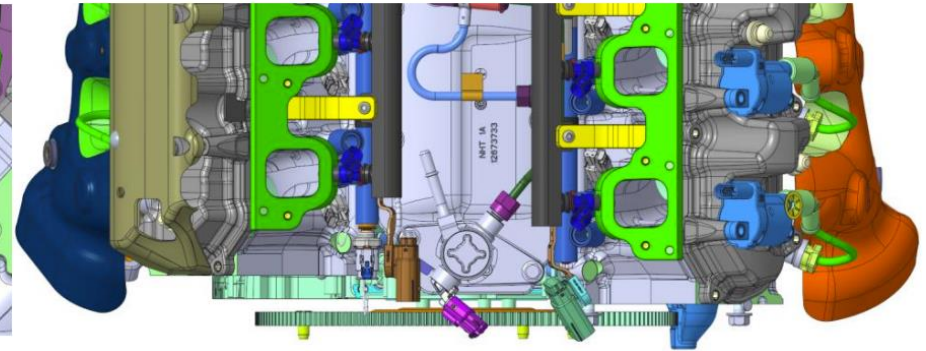
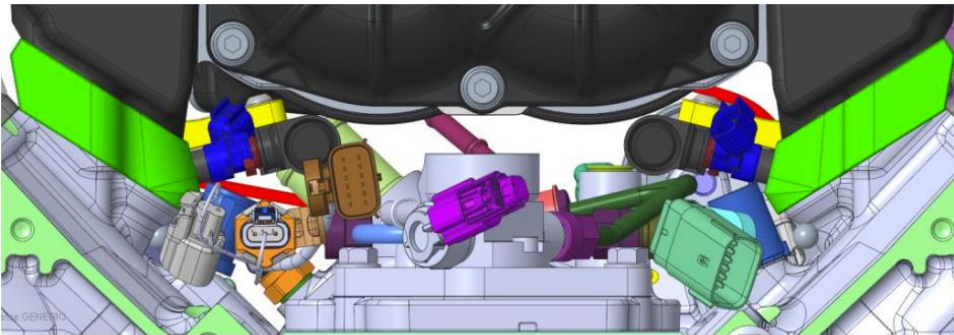
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23/06/2025

LT4 TVS2650 Inverted Supercharger Features

- High efficiency inverted TVS2650 supercharger is a direct replacement upgrade for the factory LT4 TVS1740 supercharger unit for dry sump and wet sump engines.
- Options for larger throttle body adaptors to suit up to 120mm aftermarket throttle bodies
- Utilises the factory water to air intercooler system with 2.5x capacity intercooler cores
- High flow 19mm inlet and outlet on each intercooler core with optional dash 12 intercooler fittings available
- Optional manifold thermal insulators available (these will reduce hood clearances and, in some instances, may cause a foul condition)
- Optional port injection kit available
- Retains OEM direct fuel injection functionality
- A relocation bracket is supplied for the factory by-pass boost control solenoid valve.
- The supercharger has been designed with the throttle body position close to OEM enabling the standard clean air intake tube to be retained and allow fitment of most aftermarket cold air intake systems when using the OEM throttle body
- Various 8PK supercharger drive pulley's to suit standard LT4 belt drive available.
- Optional 10PK supercharger drive pulleys to suit aftermarket supercharger drives available.

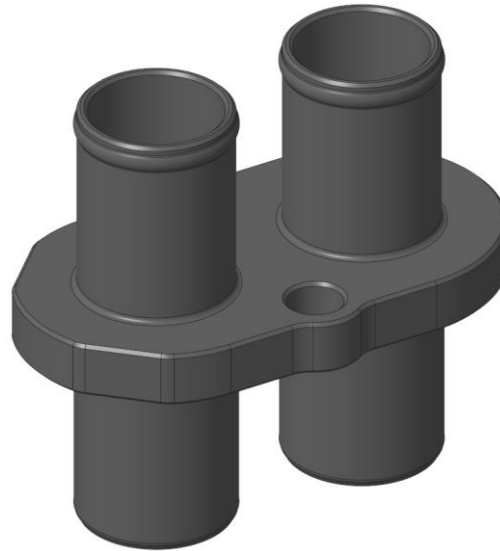
Port injection kit

- Can be used in conjunction with OEM DI system
- Lifts manifold ~28mm
- Injectors in valley for better injection angle
- -8 ORB fittings ports both ends of rails
- Uses Bosch EV14K compact injectors with 14.6mm orings both ends (not supplied)
- Replacement of DI injectors with solid plugs is required for port only applications
- PN 99-AKIT15926

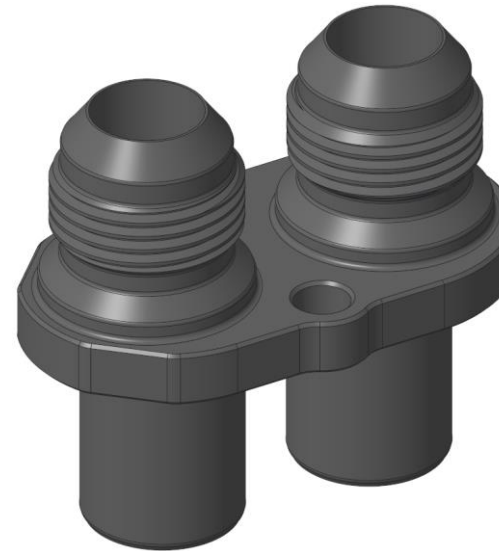


Intercooler fittings

- Supercharger kit comes standard with 19mm ID barbed fittings
- Suits the 7/8" intercooler hose included in the kit
- PN 99-FIT14662



- Optional -12 AN compatible fittings available
- Requires custom intercooler system plumbing
- PN 99-FIT16330

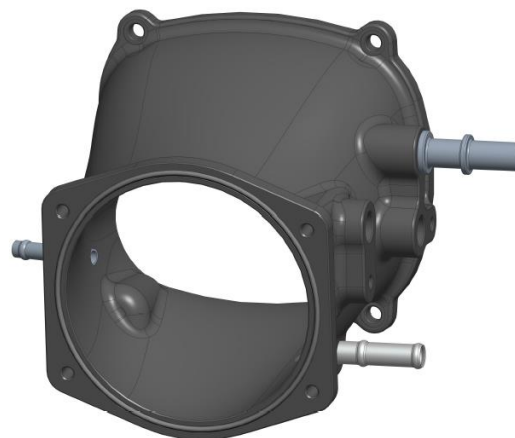


Throttle body adaptor options

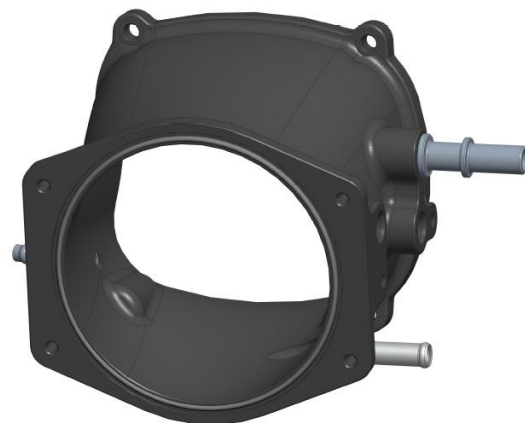
- 87mm inlet to suit OEM throttle body
- 104mmx70mm bolt pattern
- Supplied with supercharger kit
- PN 99-AADP14652



- Billet 103mm inlet to suit aftermarket 103mm throttle bodies
- 104mmx70mm bolt pattern
- 40% larger cross-sectional area compared to stock
- Requires aftermarket intake system
- PN 99-AADP16276



- Billet 112mm inlet to suit aftermarket 112mm throttle bodies
- 126mmx70mm bolt pattern
- 66% larger cross-sectional area compared to stock
- Requires aftermarket intake system
- PN 99-AADP16112



- Billet 120mm inlet to suit aftermarket 120mm throttle bodies
- 126mmx70mm bolt pattern
- 90% larger cross-sectional area compared to stock
- Requires aftermarket intake system
- Does not include mounting for fuel purge solenoid
- PN 99-AADP16786

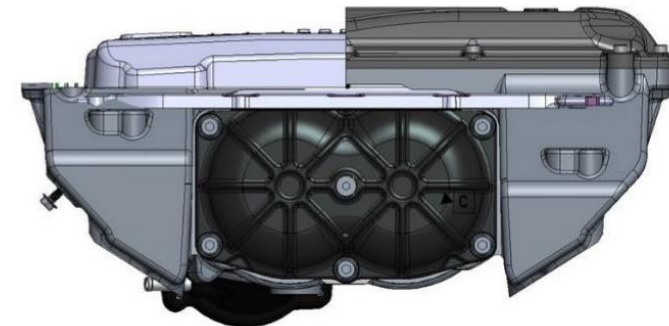
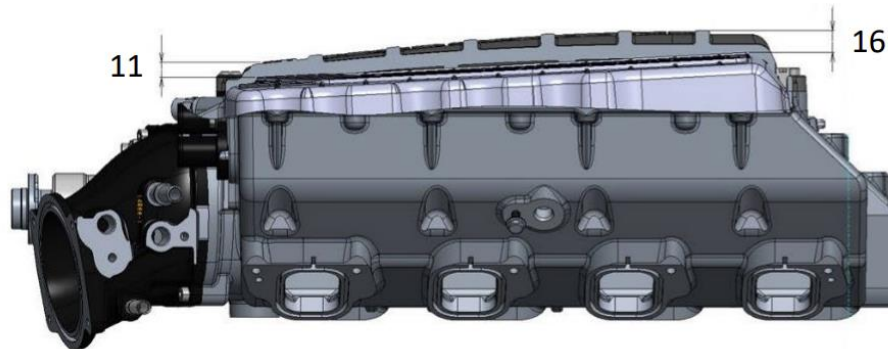
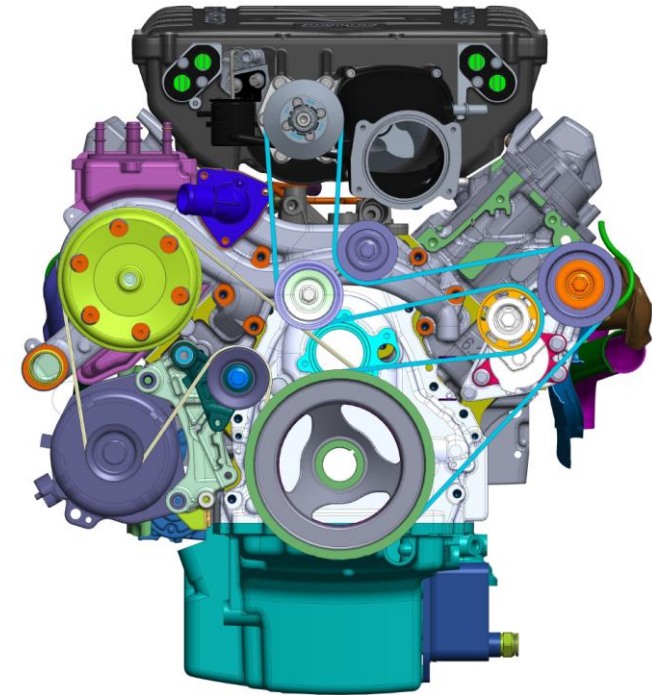


8PK Supercharger Drive & Dimensions

Supercharger Pulley

LT4 Camaro/CTS-V	Diameter	Pulley PN	Belt
	85mm	99-PLY11585-GT	8PK2170
	80mm	99-PLY11584-GT	8PK2145
	75mm	99-PLY11583-GT	8PK2145
	70mm	99-PLY11582-GT	8PK2145

LT4 Corvette	Diameter	Pulley PN	Belt
	85mm	99-PLY15923-GT	8PK2190
	80mm	99-PLY15922-GT	8PK2190
	75mm	99-PLY15921-GT	8PK2190
	70mm	99-PLY15920-GT	8PK2180



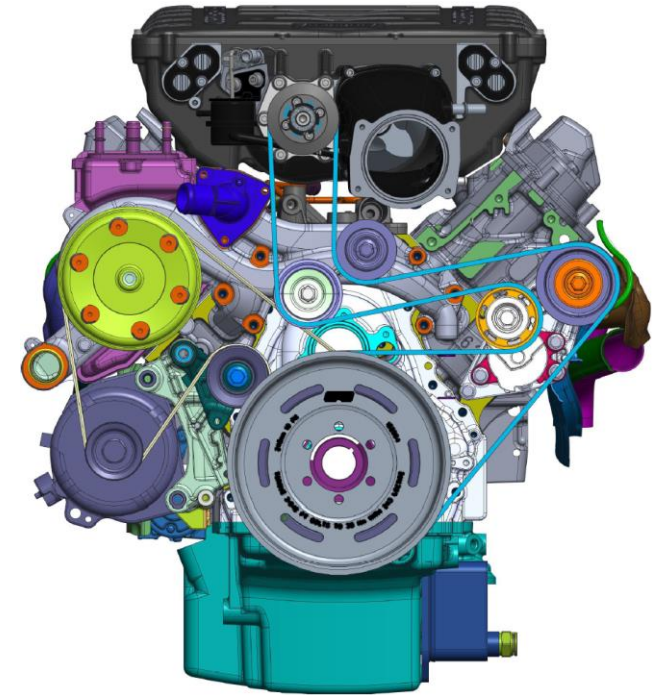
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10PK Supercharger Drive

Supercharger Pulley

LT4 Camaro/CTS-V	Diameter	Pulley PN
	90mm	99-PLY16395-GT
	85mm	99-PLY16394-GT
	80mm	99-PLY16393-GT
	75mm	99-PLY16392-GT
	70mm	99-PLY16391-GT
	65mm	99-PLY16390-GT

LT4 Corvette	Diameter	Pulley PN
	90mm	99-PLY16679-GT
	85mm	99-PLY16678-GT
	80mm	99-PLY16677-GT
	75mm	99-PLY16676-GT
	70mm	99-PLY16675-GT
	65mm	99-PLY16674-GT



Requires aftermarket 10PK supercharger belt drive

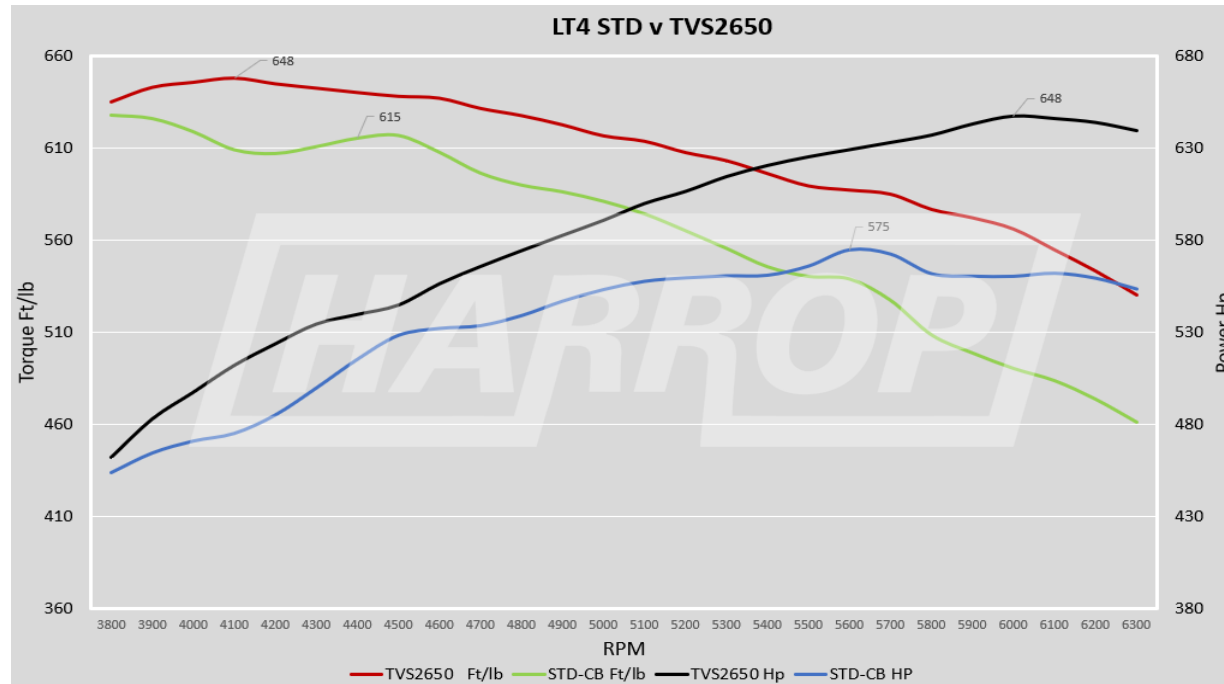
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Performance

Vehicle	Modifications	Peak power	Peak torque	Peak boost
OEM supercharged ZL1 Camaro	1-7/8" headers, hi-flow cats, 3" cat-back	575 hp	615 lb ft	9.6 PSI
Harrop supercharged ZL1 Camaro	1-7/8" headers, hi-flow cats, 3" cat-back Harrop TVS2650 LT4 with 85mm pulley	648 hp	648 lb ft	11.8 PSI



Measured on the Harrop Mainline ProHub dynamometer on 93 AKI fuel at 22°C (72°F) ambient temp
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8
23/06/2025