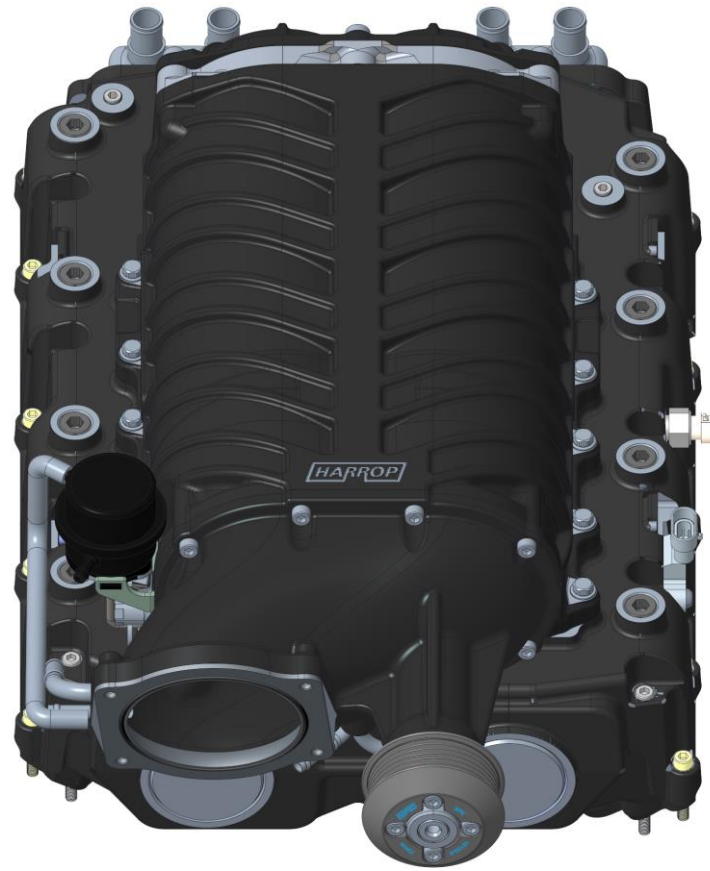


Tech Guide

GM LT top mount supercharger



Harrop Engineering develops and manufactures premium supercharger kits in Melbourne, Australia. Through 60 years of automotive performance Engineering, Harrop Engineering 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 standards of quality. OEM Quality, performance and vehicle integration are the foundation of Harrop Supercharger kits.



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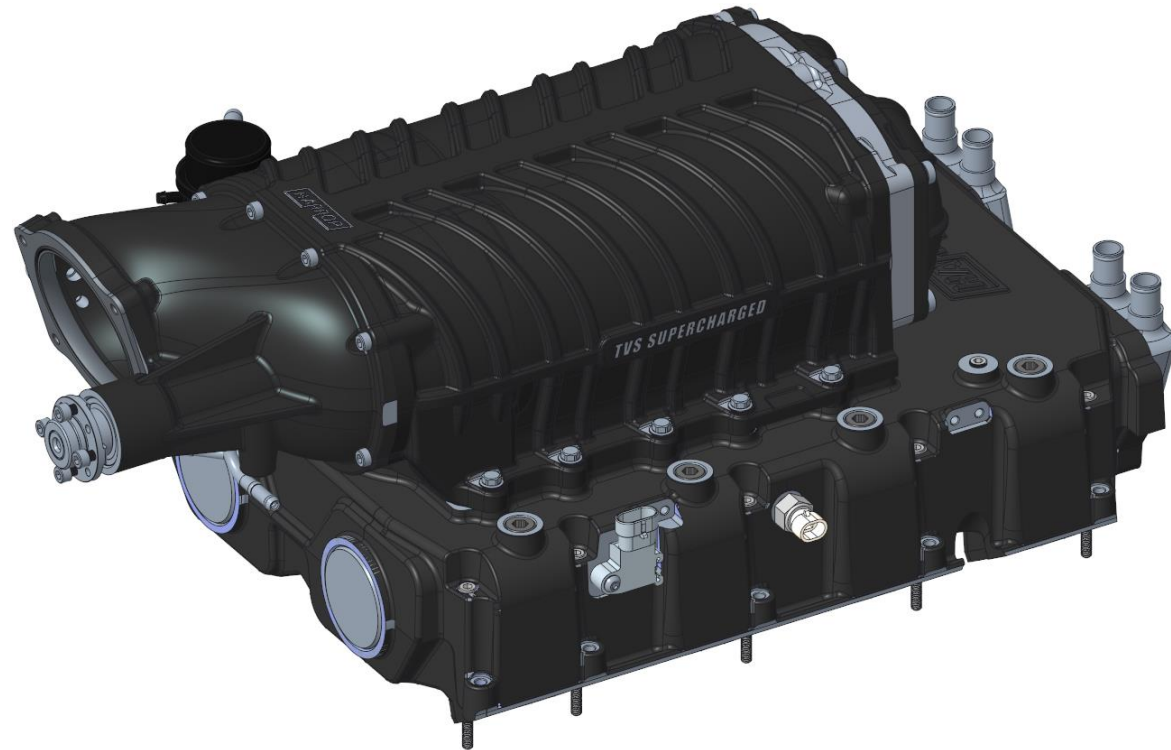
Tech Guide

GM LT top mount supercharger



Key Features:

- High efficiency FDFI 2650 supercharger
- 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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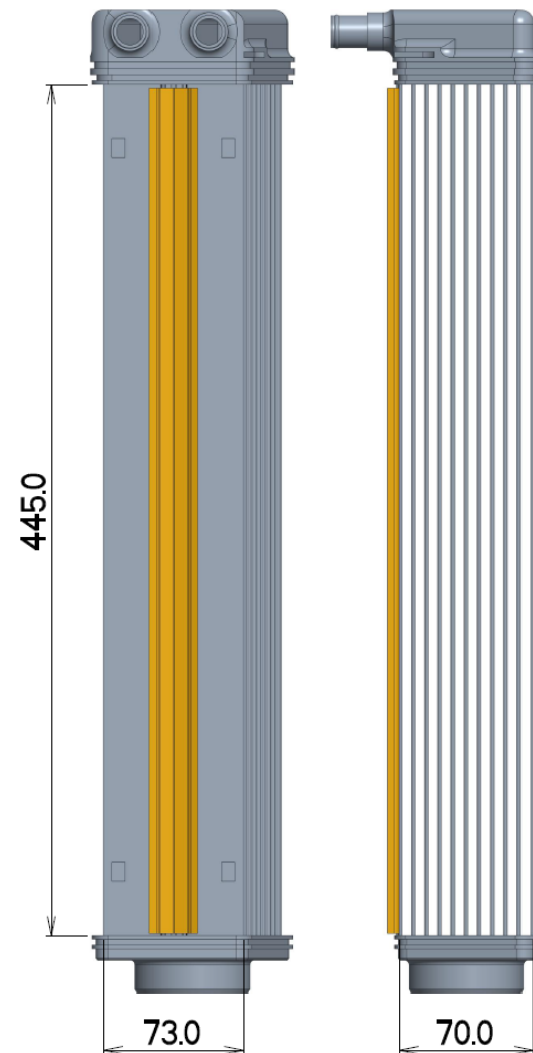
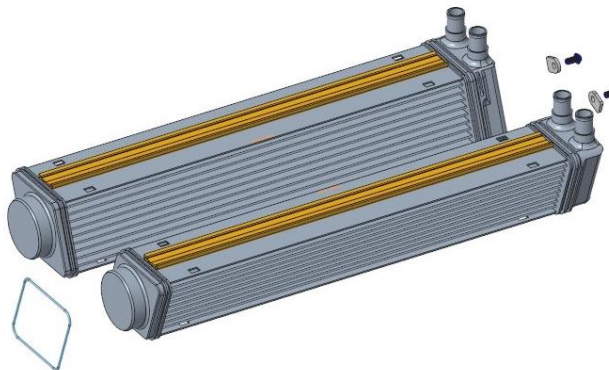
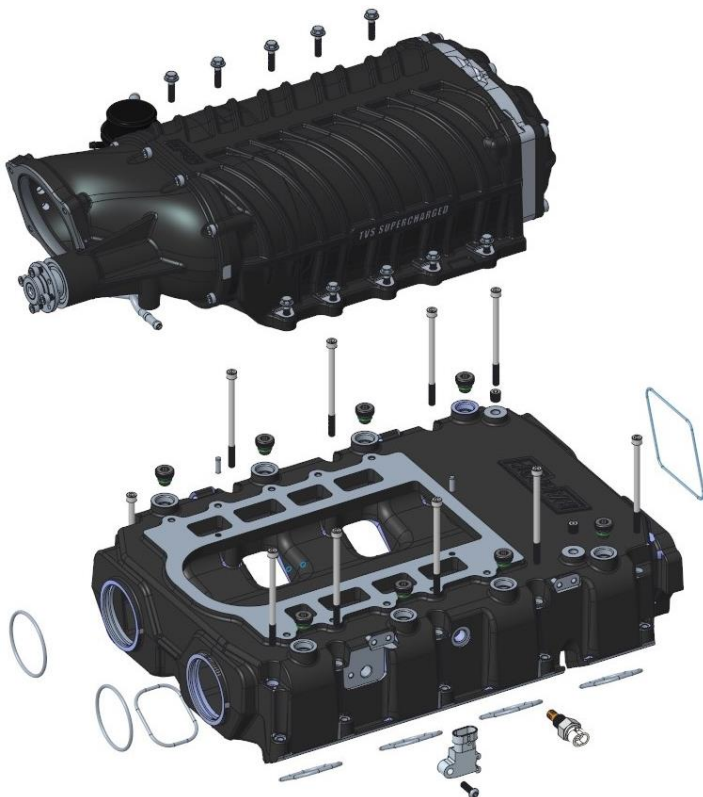
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Tech Guide

GM LT top mount supercharger



Intercooler layout and dimensions

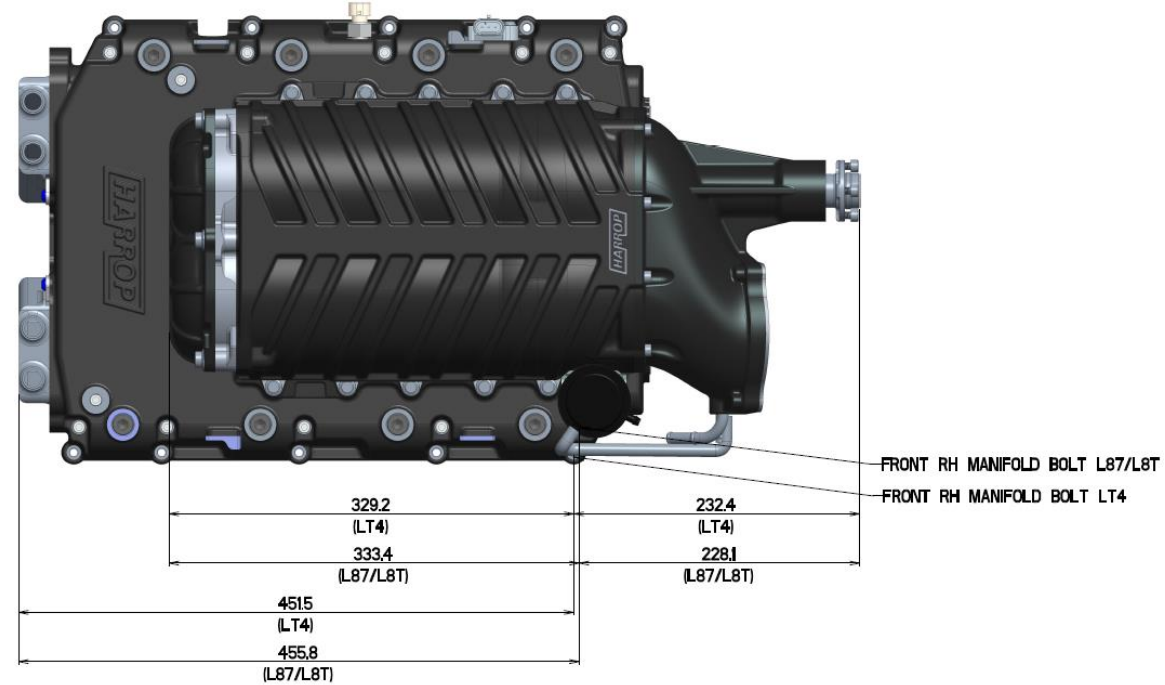


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Tech Guide

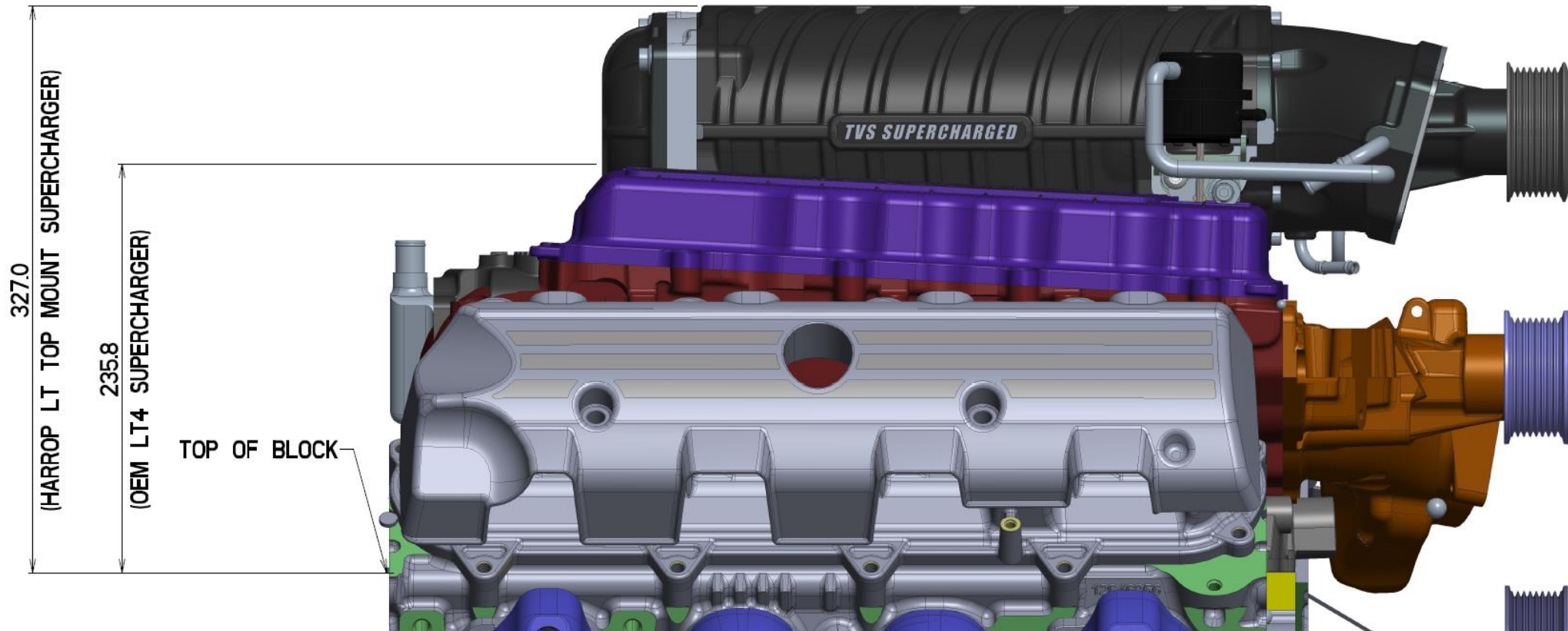
GM LT top mount supercharger



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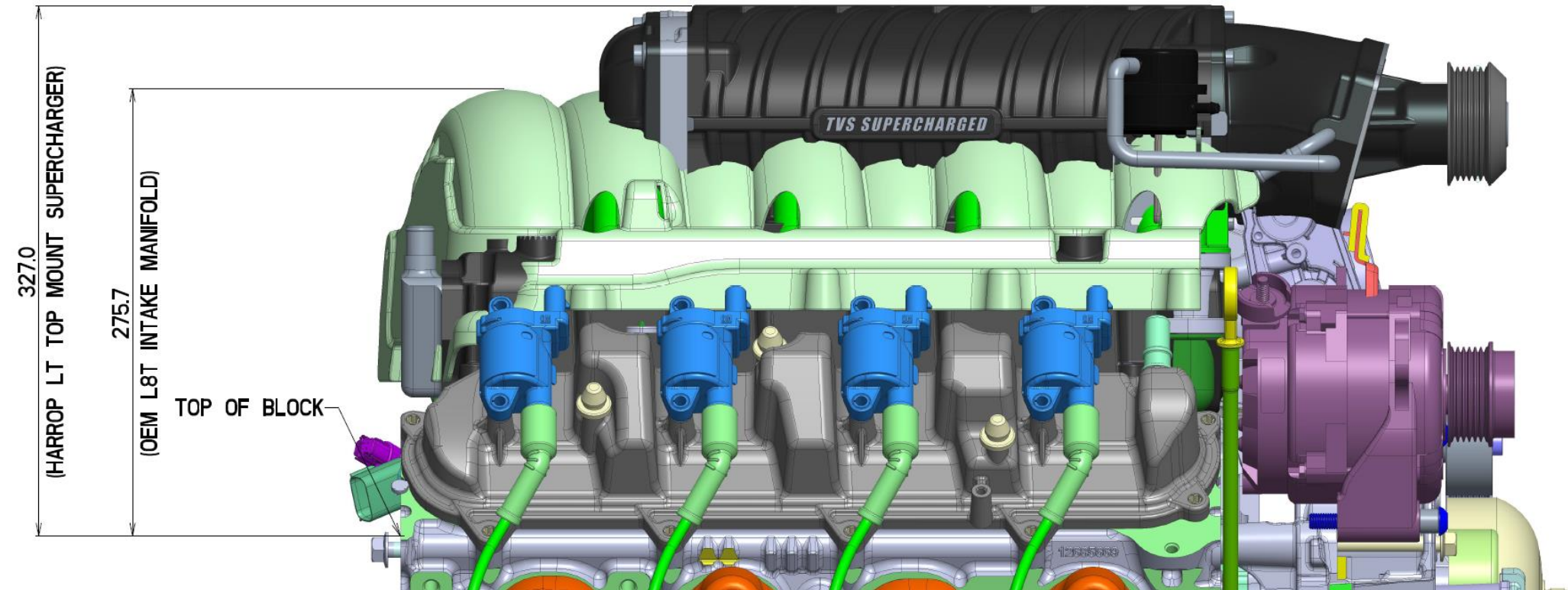
Harrop LT Top Mount supercharger vs OEM LT4 Supercharger



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Harrop LT Top Mount Supercharger vs OEM L8T Intake Manifold

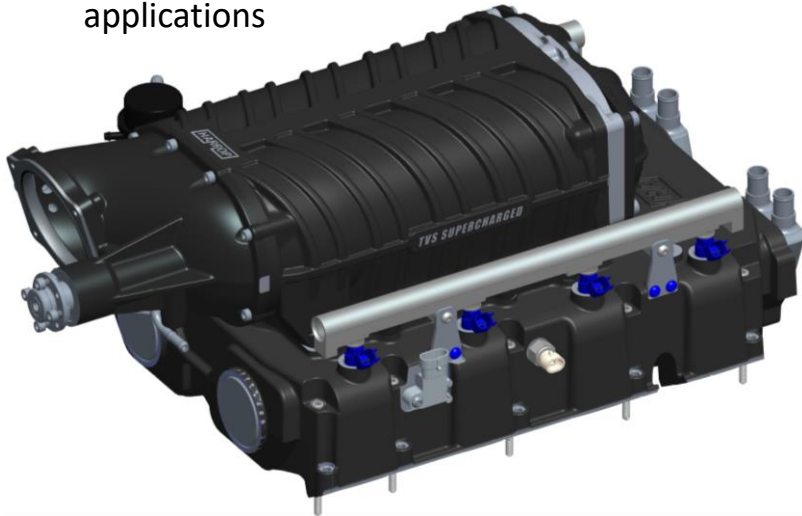


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- Includes fuel rails, mounts and all required mounting hardware
- Can be used in conjunction with OEM DI fuel system
- -8 ORB both ends of rail for fuel line installation flexibility
- Suits Bosch EV14 compact injectors
- Replacement of DI injectors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



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A16127-0

ITEM	DESCRIPTION	QTY	MATERIAL	FILENAME	DRAWING
1	BRACKET, RAIL, FUEL, 3UR-FE	4	MILD STEEL	BKT RAIL FUEL 3UR-FE M166	M166-0
2	RAIL, FUEL, SUPERCHARGER, FDR, L76	2	ALUM EXTRUSION HARROP	RAIL FUEL SC FDR L76 M165	M165-4
3	SCREW, BUTTON HEAD CAP, M6x12, ZINC	8	AS SUPPLIED	BH M6x12 ZINC	-
4	SCREW, BUTTON HEAD CAP, M6x16, ZINC PLATED	4	AS SUPPLIED	BH M6x16 ZINC	-

SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
- INJECTORS NOT INCLUDED

37.7

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A16127-0

SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
- INJECTORS NOT INCLUDED

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SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
- INJECTORS NOT INCLUDED

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SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
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SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
- INJECTORS NOT INCLUDED

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SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
- INJECTORS NOT INCLUDED

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SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
- INJECTORS NOT INCLUDED

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SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
- INJECTORS NOT INCLUDED

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A16127-0

SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
- INJECTORS NOT INCLUDED

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SCALE 0.25

FRONT

NOTE - INJECTOR - BOSCH EV14 SHORT BODY
- INJECTORS NOT INCLUDED

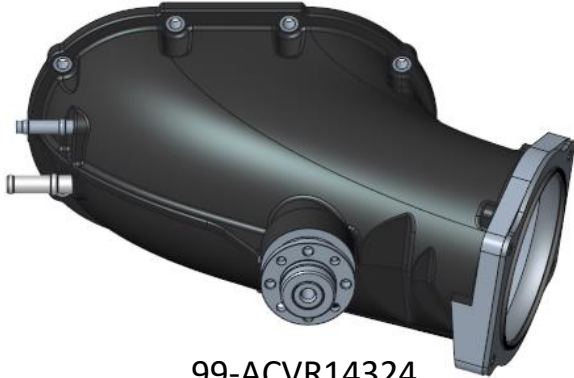
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Supercharger Front Cover Options



99-ACVR14324

LH facing to suit LS/LT 90 to 103mm TB



99-ACVR13167

Straight facing to suit LS/LT 90 to 103mm TB

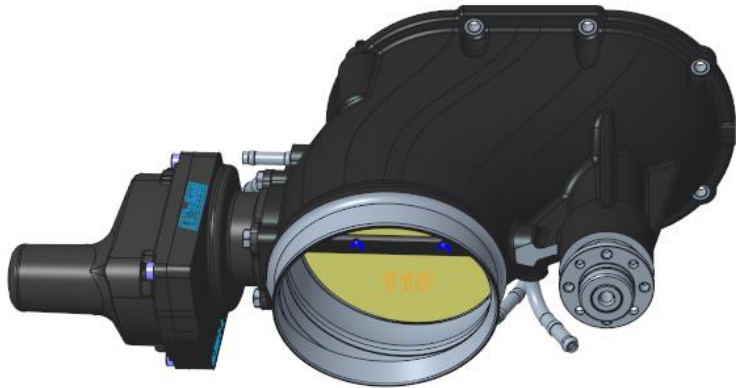


99-ACVR14234

RH facing to suit LS/LT 90 to 92mm TB

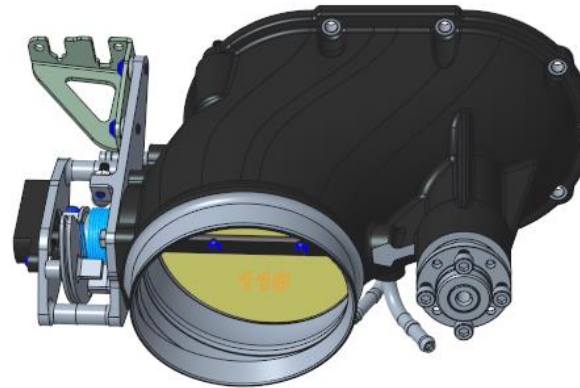
99-ACVR13169

Integrated 110mm throttle electronic actuation



99-ACVR14983

Integrated 110mm throttle cable actuation

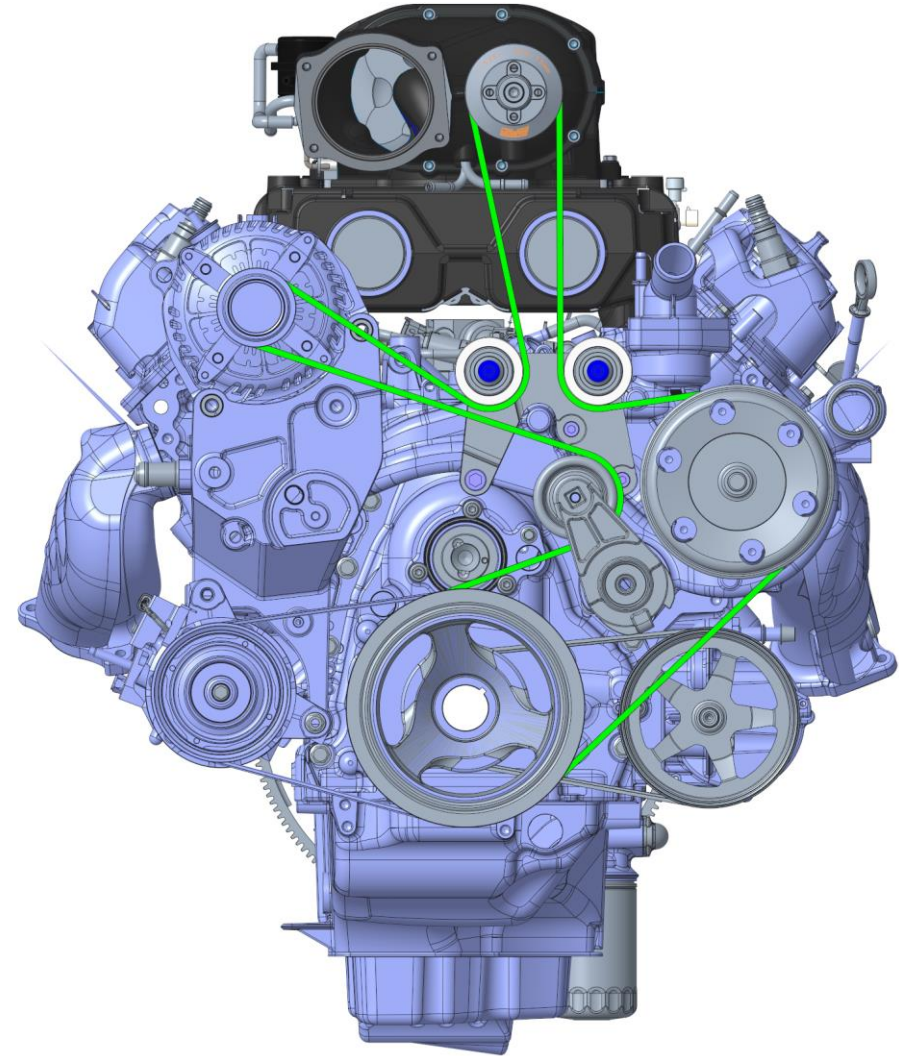


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Belt Drive Configurations L83/L86

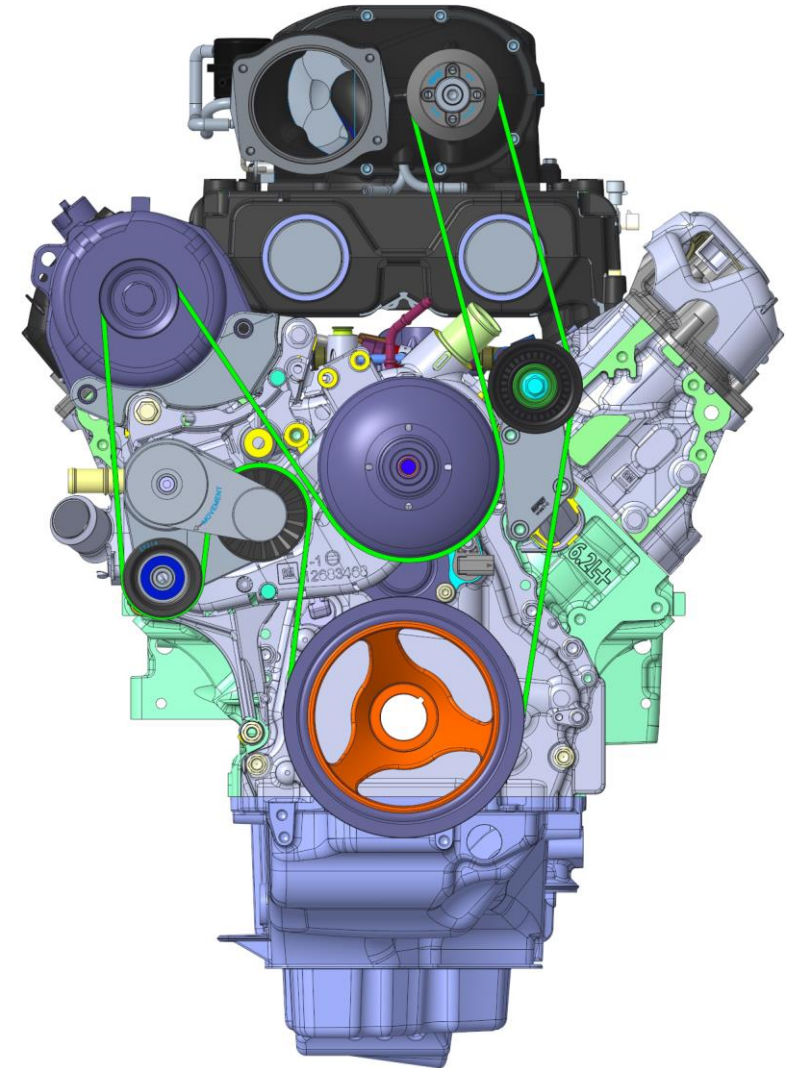
- Requires idler mount 99-ABKT14387.



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

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

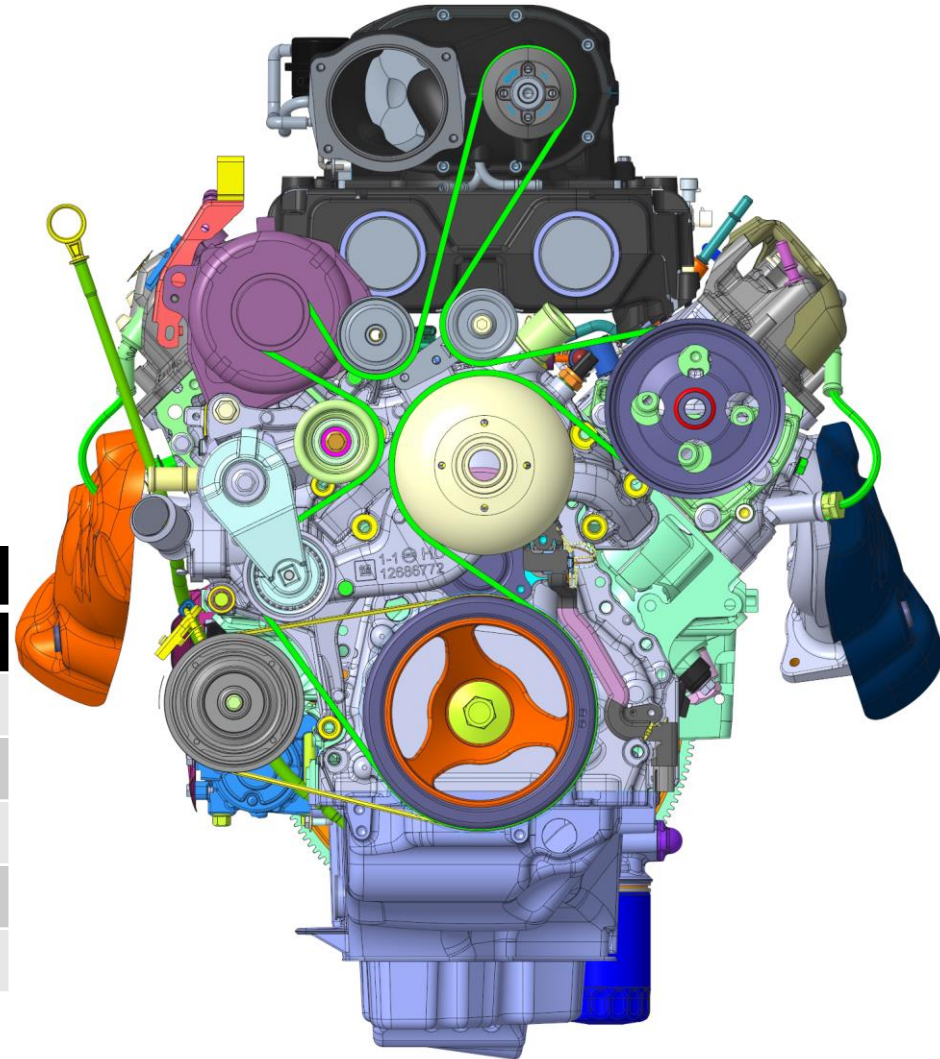
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Belt Drive Configurations L8T

- 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).
- To suit an 8PK belt drive, engine kit 99-EK-A16769 consisting of alternator relocation bracket, tensioner, tensioner mount and additional idlers is required. ATI 917306 balancer is also required.

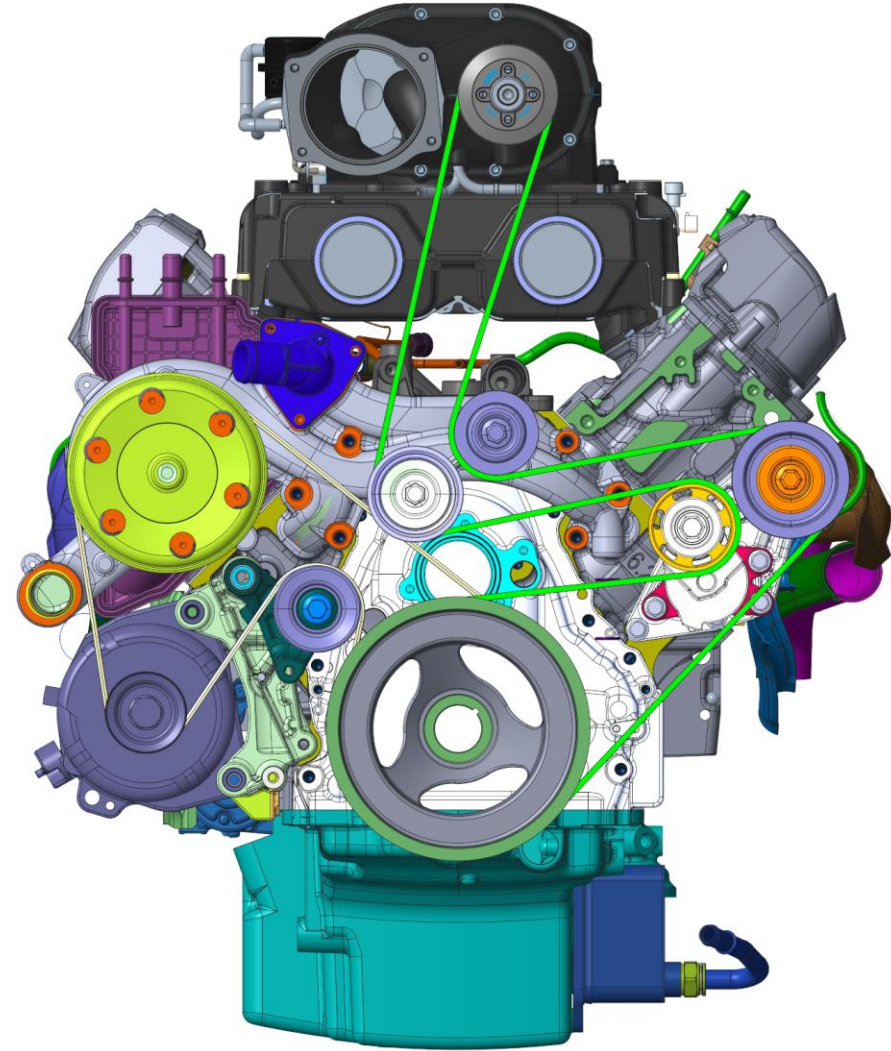
6PK Belt Drive		8PK Belt Drive	
Supercharger pulley	Belt	Supercharger pulley	Belt
99-PLY16133 70mm	6PK2590	99-PLY16133 70mm	8PK2800HD
99-PLY16134 75mm	6PK2605	99-PLY16134 75mm	8PK2855HD
99-PLY16135 80mm	6PK2605	99-PLY16135 80mm	8PK2855HD
99-PLY16136 85mm	6PK2615	99-PLY16136 85mm	8PK2855HD
99-PLY16137 90mm	6PK2620	99-PLY16137 90mm	8PK2855HD



Belt Drive Configurations LT4

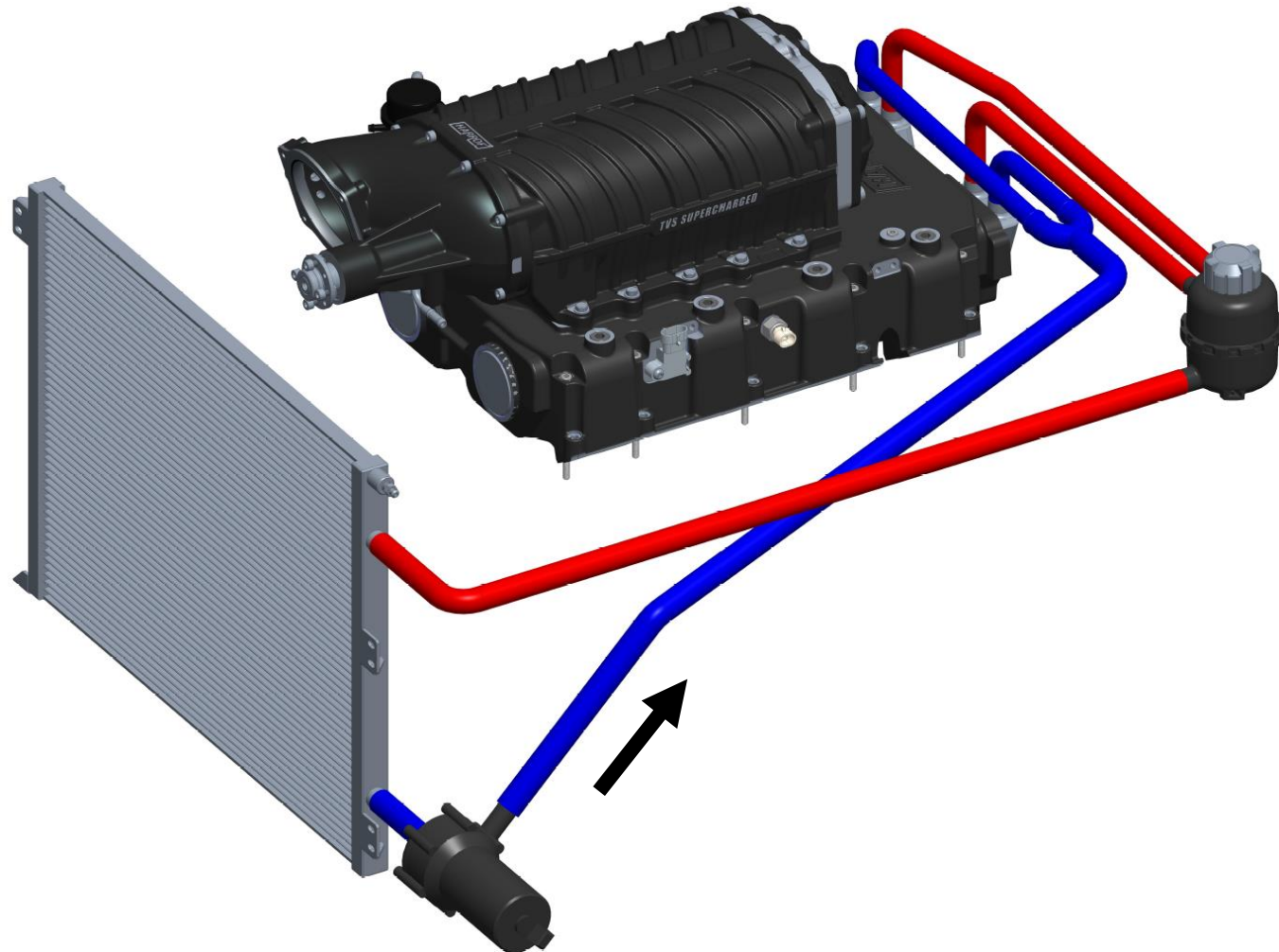
- Only suits wet sump LT4 belt drive setup

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



Generic Intercooler Routing

- Illustration is a generic coolant circuit diagram. Engine kit does not include reservoir, radiator, pump or hoses.
- Generic intercooler kit 99-AINT12953 is available.
- Black arrow indicates flow direction.
- Intercooler reservoir must be mounted at the highest point in the circuit.
- Intercooler pump must be mounted at the lowest point in the circuit.
- Intercooler system must be filled with a 1:1 mix of GM6277M coolant concentrate and distilled or deionised water.



Performance Figures

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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