HARROP

TECHNICAL GUIDE

TVS2650 SUPERCHARGER

SMALL BLOCK FORD

June 2024

Important Information
Installing the supercharger indicates your acceptance of the responsibility and liability associated with the fitment and use of this product. Please ensure the owner and drivers of the supercharged vehicle are aware of their responsibilities and liabilities as indicated below.
Thank you for purchasing this supercharger which has been designed and made with pride. The owner and drivers of the enhanced vehicle must be aware that fitment of a supercharger may affect:
• The vehicle's factory warranty.
• Insurance cover and associated liabilities.
• Compatibility with emission and roadworthy certification.
• The validity of a driver's license for a supercharged vehicle.
• The handling & braking capability of the vehicle due to increased engine power & torque characteristics.
• The longevity of the engine.
• The vehicle will need to use premium unleaded fuel only (98 RON).
It is the owner's/driver's responsibility to accept any consequences and liabilities of using the supercharger and any subsequent effect it may have. Harrop Engineering shall not be liable and shall be 'Held Harmless' for any direct and/or indirect/consequential losses, costs, damages, expenses, injuries or liabilities whatsoever incurred by the owner/driver of the vehicle or other parties arising from this supercharger, its installation and/or its operation. It is recommended that vehicles have completed 1,500 km and have been driven, serviced and maintained in accordance with the vehicle manufacturer's handbook before fitting a supercharger. An engine should be deemed reliable and have delivered all reasonable expectations in line with the vehicle manufacturer's specifications prior to fitting a supercharger.

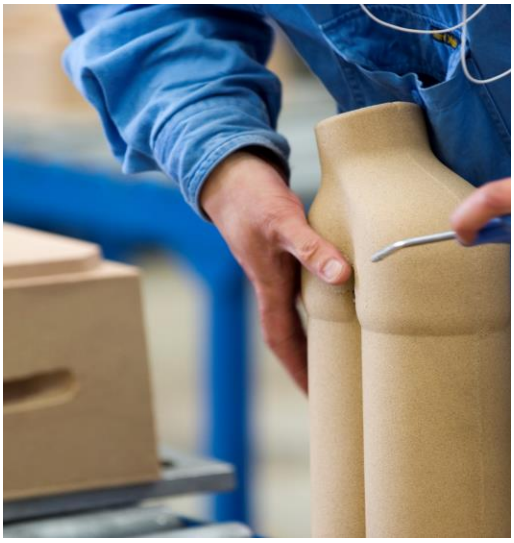
Warranty
This supercharger is covered by a limited warranty on components and workmanship for a period of 36 months from the date of purchase, subject to the following:
• Installation must be completed by a qualified motor mechanic or technician who has undertaken appropriate training in fitting Harrop superchargers.
• The supercharger has not been modified or "overdriven" by fitting alternative drive pulleys.
• The supercharged vehicle has been tuned by an appropriately qualified and experienced technician.
• The supercharged vehicle has been driven in accordance with the conditions specified by the vehicle manufacturer's normal use of operation, driving care and vehicle service program.
• The supercharged vehicle has not been used for competitive racing.
No warranty shall apply where Harrop have determined improper fitment or handling, misuse in operation, neglect, or accident damage. Engine modifications made prior to or in conjunction with the supercharger fitment may invalidate the Harrop limited warranty. Any warranty claims must be made immediately & directly in writing to Harrop Engineering so that a determination can be made promptly. Involvement of a third party or an attempt to repair a perceived/actual fault may invalidate the warranty. To the extent of the law, the determination on any warranty claim & associated costs will be at the sole discretion of Harrop Engineering.

By installing the supercharger you acknowledge that all conditions pertaining to this supercharger and its operation have been read, understood and accepted

For 65 years Harrop Engineering has been at the forefront of designing, developing and manufacturing precision performance components. Today our innovative and logical approach is applied to low volume automotive OEMs and the performance aftermarket through a dedicated team of 65 staff. Core performance products include Superchargers, Engine Components, Brakes, Differentials and we are also the exclusive Australian Distributor for Forgeline Motorsport Wheels.

Harrop are also the preferred supplier of Eaton Supercharger and Traction Control technology including dual branded product designed and manufactured in-house. There are currently over 4,000 components in our portfolio and this is growing daily as we continually develop more Harrop Performance Products.
Our high profile car manufacturing customers have included Holden, HSV, FPV, Ford, Roush, Toyota, TRD and Lotus.
We also supply to race teams from categories including F1, NASCAR and V8 Supercars and an extensive range of drag, circuit and off-road competitors. Just as importantly, a large portion of our customers are performance enthusiasts and weekend warriors who are highly passionate about their ride.
Please take a moment to review the following pages and learn why Harrop is the first choice in Superchargers.
Thank you for choosing Harrop and enjoy your Harrop Enhanced ride.

- Team **HARROP**



Important Requirements to note:

This Harrop Supercharger Engine Kit **will only suit:**

- Small Block Ford with an 8.2" (289-302 Windsor) OR 9.5" (351 Windsor) deck height. 9.5" deck height engines require an adaptor (see page 15)
- WINDSOR style cylinder heads
- Early style Timing Cover
- Early style Water Pump with LH inlet
- ATI Balancer

NOTE:
ANY OTHER CONFIGURATIONS, DECK HEIGHTS, AND ACCESSORIES NOT MENTIONED ABOVE HAVE NOT BEEN TESTED AND/OR NOT CURRENTLY SUPPORTED.

Overview:

Harrop TVS2650 Supercharger Engine kit for a Small Block Ford (8.2”Deck Height)

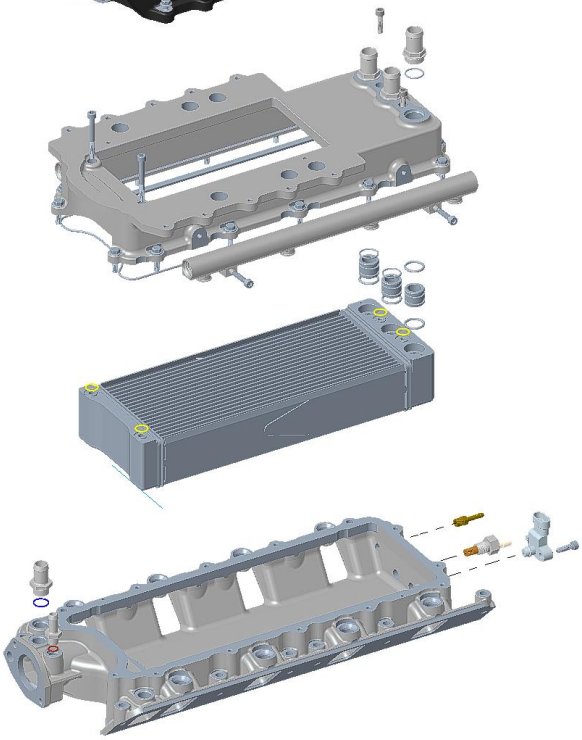
Part number: 99-AMFD15765 **Description:** MANIFOLD ASM TVS2650 SBF 8.2 DECK

8PK FRONT DRIVE (Refer to Page 10)
Part number: 65-B-5.0L-WRAPTOR-AC **Description:** B-5.0L-WRAPTOR-AC-HARROP

10PK HD DRIVE (Refer to Page 11)
Part number: 99-AKIT15780 **Description:** KIT 10PK FRONT DRIVE SBF

Technical Specifications:

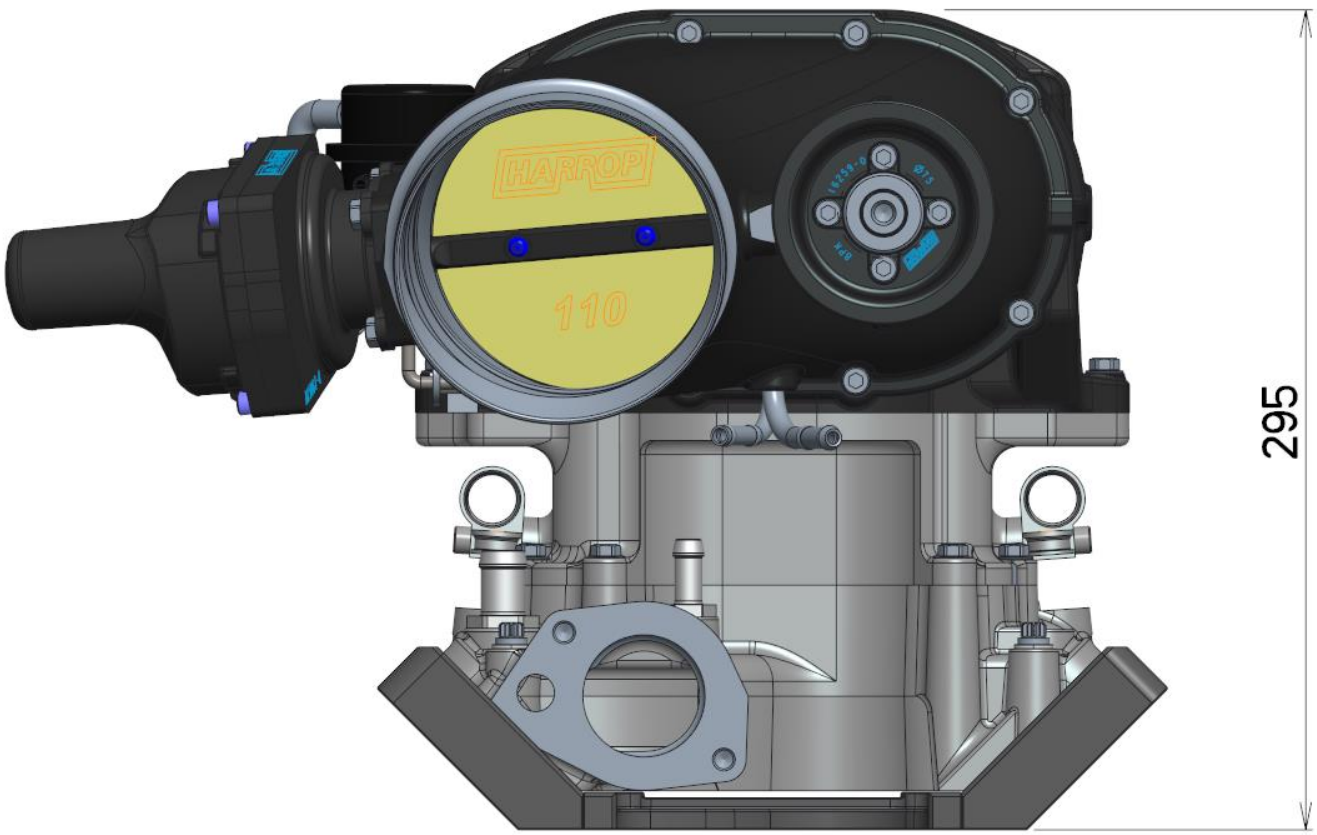
- Eaton TVS2650 supercharger technology
- Integrated Supercharger Bypass system which relieves boost under light load conditions, reducing drive loss and improving fuel economy.
- In manifold charge air intercooler: High density fin at 61mm thick.
- 17mm water in / out intercooler lines.
- Intake Air Temperature (IAT) Sensor (25037388).
- 2.7 Bar MAP Sensor (GM12592525).
- Fuel Rails to suit EV14 Compact injectors *(with -8 AN threads each end).*



9.5" DECK HEIGHT ADAPTOR

To run the Harrop TVS2650 Small Block Ford supercharger on an engine with a 9.5" deck height (351 Windsor), The Harrop adaptor plate kit (99-AKIT16582) must be used in conjunction with the 99-AMFD15765 manifold assembly

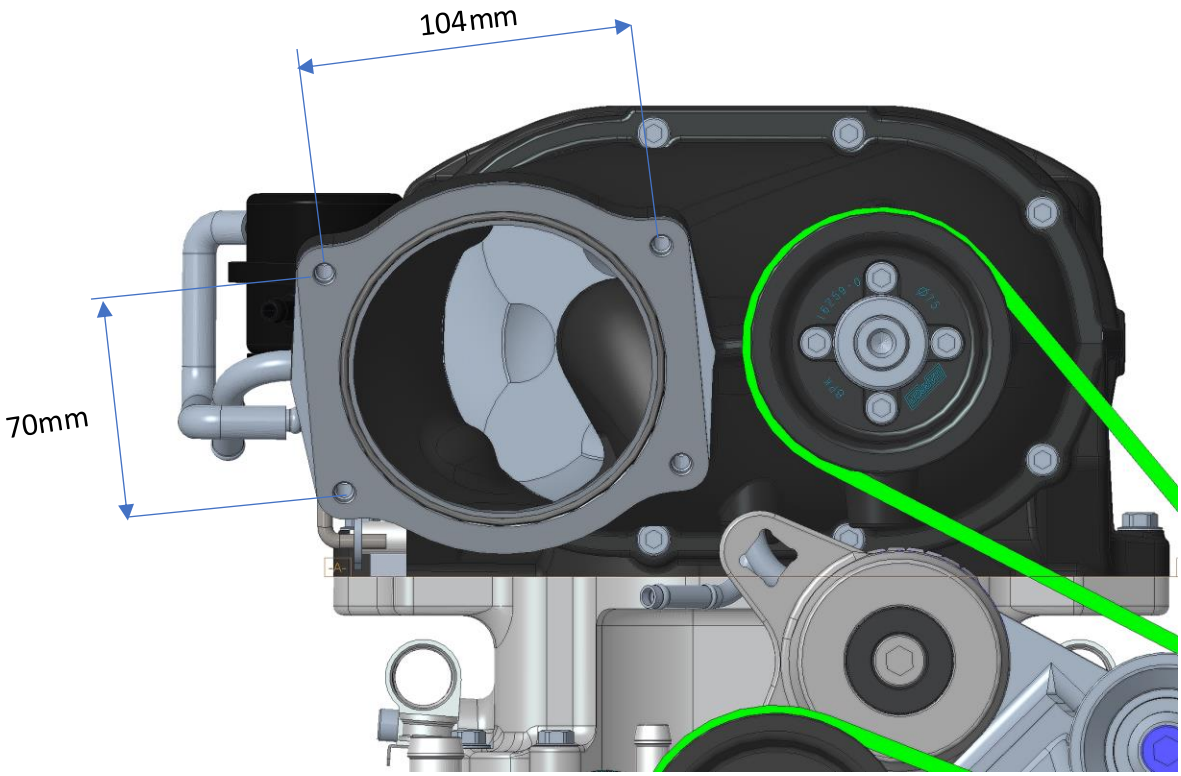
HARROP TVS2650 WITH 9.5" DECK HEIGHT ADAPTOR HEGHT



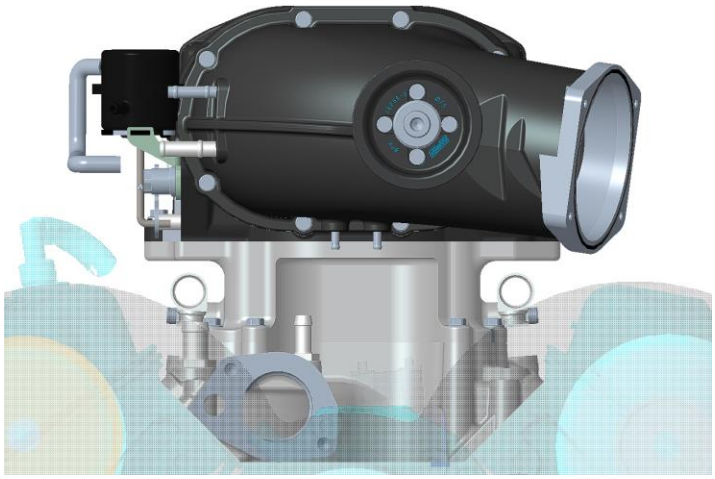
FDFI INLET COVER OPTIONS, SUPERCHARGED – SBF

FRONT INLET COVER BIAS	8PK FRONT DRIVE	10PK HD DRIVE
99-ACVR13169 110 FWD ETC *(LS3 throttle body motor)*		
99-ACVR14983 110 FWD CABLE		
99-ACVR14324 LH BIAS	**	**
99-ACVR14234 RH BIAS	**	**
99-ACVR13167 FWD INLET	**	**

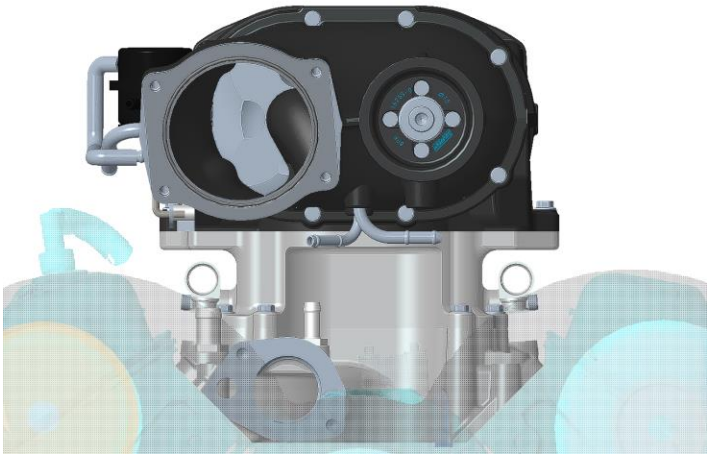
** 104mm x 70mm 4 HOLE THROTTLE BODY MOUNT (TO SUIT LS STYLE ETC OR CABLE)



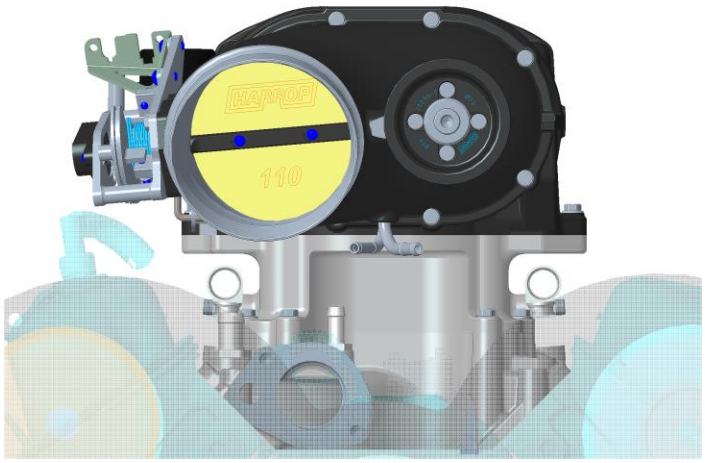
8PK FRONT DRIVE - FDFI INLET COVER OPTIONS



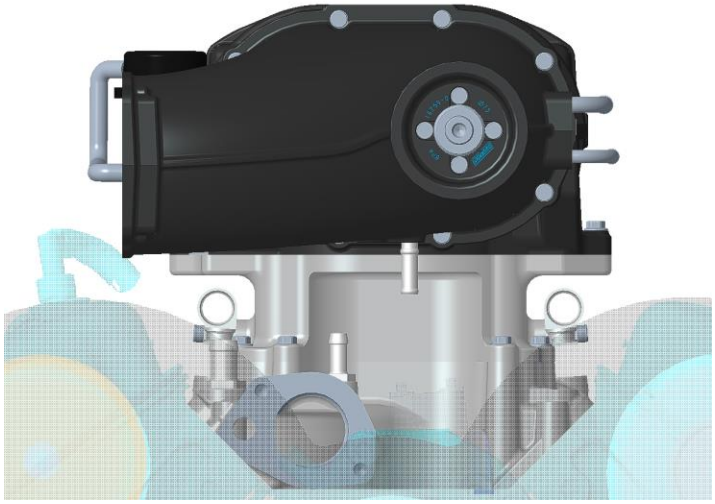
LEFT BIAS
(99-ACVR14324)



FWD BIAS
(99-ACVR-13167)

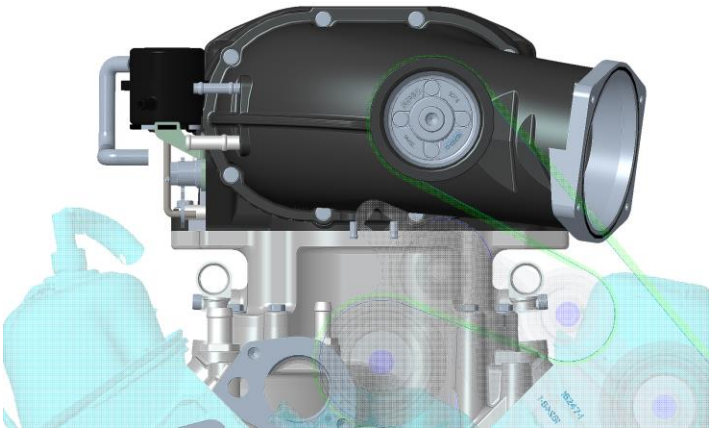


110 FWD BIAS
(99-ACVR14983 CBL)
(99-ACVR13169 ETC)

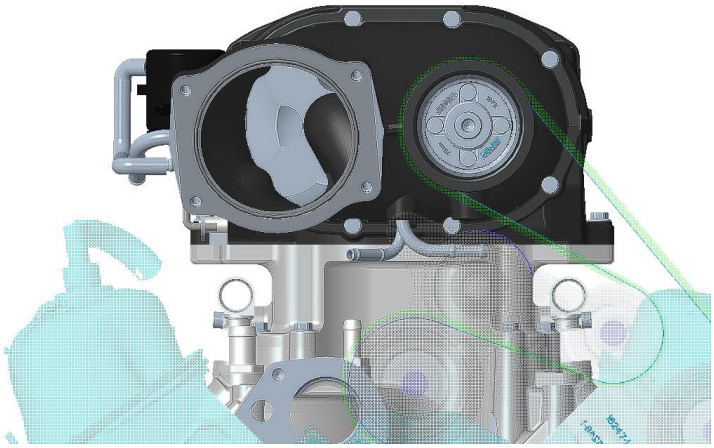


RIGHT BIAS
(99-ACVR14234)

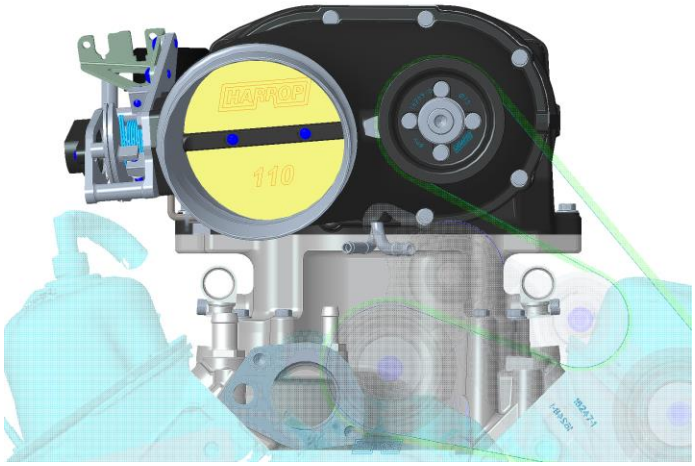
10PK HD DRIVE - FDFI INLET COVER OPTIONS



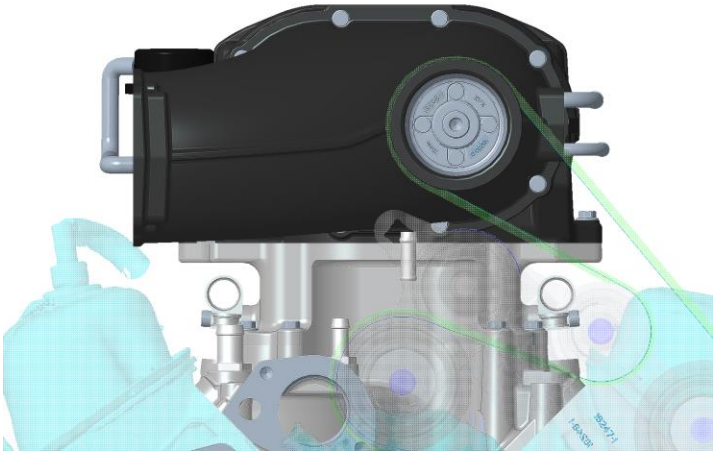
LEFT BIAS
(99-ACVR14324)



FWD BIAS
(99-ACVR-13167)



110 FWD BIAS
(99-ACVR14983 CBL)
(99-ACVR13169 ETC)



RIGHT BIAS
(99-ACVR14234)

DRIVE SYSTEMS AVAILABLE

8PK FRONT DRIVE
(CVF all inclusive Wraptor 8 track Supercharger Serpentine System)
Refer www.cvfracing.com

10PK HD DRIVE

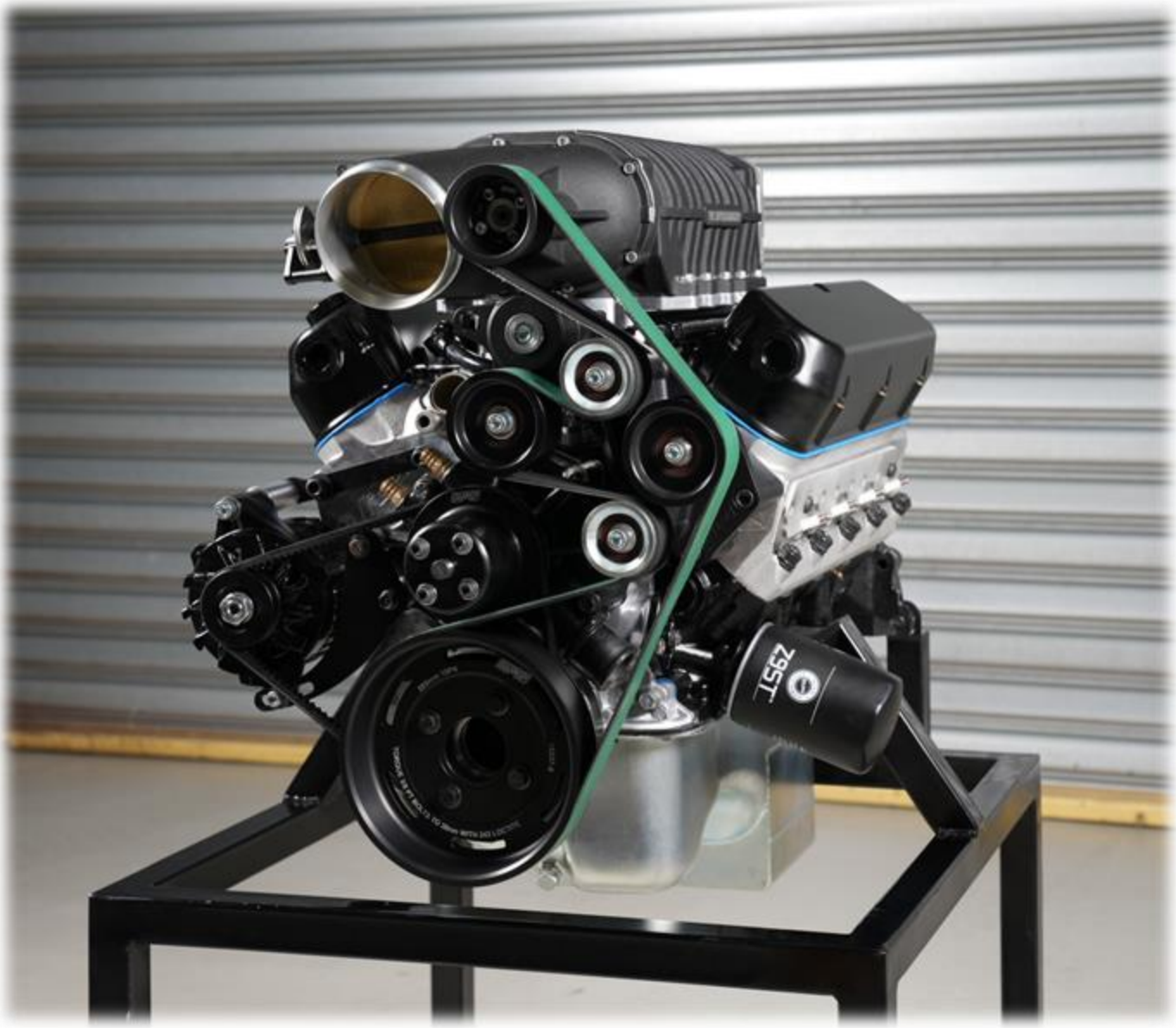
DRIVE SYSTEM SUPPORTED ACCESSORIES

	8PK FRONT DRIVE	10PK HD DRIVE
Air Conditioning		
Power Steering		
Alternator		
Water Pump		
Power (<900hp)	REFER PERFORMANCE TABLE (page 29)	
Power (>900hp)	REFER PERFORMANCE TABLE (page 29)	

8PK FRONT DRIVE:

- 8PK dia 160mm Crank Pulley
- Premium 8PK Belt
- CVF all inclusive *Wraptor 8* Track Supercharger Serpentine System features
  Water Pump - High Flow Aluminium Reverse direction, 5.7" tall, 5/8" pilot, Driver (LH Inlet), and modified mounting boss.
  Alternator - 140 Amp GM CS130 Style 1 wire with 6-12 O'clock mounting and 6.6" bolt spacing.
  Power Steering Pump - GM Type II pump.
  Compressor - Peanut Style (7B10) AC Compressor with 8 Rib Clutch.
  HD Tensioner
  All Pulleys, Idlers, and mounting hardware and instructions.

Note: Customer sourced ATI Balancer and Trigger Wheel Assembly – refer pages 21/22.



10PK HD DRIVE:

- 10PK dia 205mm Crank Pulley Assembly
  (crank pulley, v-pulley adapter, and fasteners)
- 10PK Tensioner Bracket Assembly
- Alternator mounting bracket kit to suit a 140 Amp GM CS130 Alternator with 6-12 O'clock mounting and 6.6" bolt spacing (bracket kit optional)
- Mechanical Water Pump V-Pulley to suit Driver (LH Inlet) 5.7" tall Water Pump (optional)
- 10pk belt
- V-Belt (optional)

Note: Customer sourced Alternator, ATI Balancer and Trigger Wheel Assembly – refer pages 21/22/23.

8PK SUPERCHARGER PULLEY:-

PULLEY P/No.	DESCRIPTION
99-PLY16257-GT	Pulley, Supercharger, 8PK, Ø65.0 OD, 22.3 Offset
99-PLY16258-GT	Pulley, Supercharger, 8PK, Ø70.0 OD, 22.3 Offset
99-PLY16259-GT	Pulley, Supercharger, 8PK, Ø75.0 OD, 22.3 Offset
99-PLY16245	Pulley, Crank, 8PK, Ø160, CVF SBF

8PK PULLEYS and BELT 8.2" DECK HEIGHT:-

SUPERCHARGER PULLEY DIAMETER	CRANK PULLEY DIAMETER	BELT P/No.	SUPERCHARGER SPEED
65	160	65-8PK2533	15300 RPM
70	160	65-8PK2540	14200 RPM
75	160	65-8PK2554	13300 RPM

8PK PULLEYS and BELT 9.5" DECK HEIGHT:-

SUPERCHARGER PULLEY DIAMETER	CRANK PULLEY DIAMETER	BELT P/No.	SUPERCHARGER SPEED
65	160	65-8PK2605	15300 RPM
70	160	65-8PK2605	14200 RPM
75	160	65-8PK2623	13300 RPM

Max crank speed 6200rpm, Max Supercharger Speed 18000rpm(red cells indicate s/c warranty void)

10PK SUPERCHARGER PULLEY:-

PULLEY P/No.	DESCRIPTION
99-PLY16249-GT	Pulley, Supercharger, 10PK, Ø65.0 OD, 18.3 Offset
99-PLY16250-GT	Pulley, Supercharger, 10PK, Ø70.0 OD, 18.3 Offset
99-PLY16251-GT	Pulley, Supercharger, 10PK, Ø75.0 OD, 18.3 Offset
99-PLY16252-GT	Pulley, Supercharger, 10PK, Ø80.0 OD, 18.3 Offset
99-PLY16253-GT	Pulley, Supercharger, 10PK, Ø85.0 OD, 18.3 Offset

10PK CRANK PULLEY:-

PULLEY P/No.	DESCRIPTION
99-PLY16615	Pulley, 10PK, Ø160 4x90
99-PLY16237	Pulley, 10PK, Ø205 4x90
99-PLY16238	Pulley, 10PK, Ø245 4x90

10PK PULLEYS and BELT 8.2" DECK HEIGHT:-

SUPERCHARGER PULLEY DIAMETER	CRANK PULLEY DIAMETER	10PK BELT P/No.	SUPERCHARGER SPEED
65	160	65-10PK1875	15250 RPM
70	160	65-10PK1885	14170 RPM
75	160	65-10PK1893	13220 RPM
80	160	65-10PK1902	12400 RPM
85	160	65-10PK1910	11650 RPM

SUPERCHARGER PULLEY DIAMETER	CRANK PULLEY DIAMETER	10PK BELT P/No.	SUPERCHARGER SPEED
65	205	65-10PK1962	19550 RPM
70	205	65-10PK1962	18150 RPM
75	205	65-10PK1976	16950 RPM
80	205	65-10PK2018	15900 RPM
85	205	65-10PK2018	14950 RPM

SUPERCHARGER PULLEY DIAMETER	CRANK PULLEY DIAMETER	10PK BELT P/No.	SUPERCHARGER SPEED
65	245	65-10PK2055	23400 RPM
70	245	65-10PK2055	21700 RPM
75	245	65-10PK2058	20250 RPM
80	245	65-10PK2058	19000 RPM
85	245	65-10PK2058	17870 RPM

ALTERNATOR PULLEY DIAMETER	WATER PUMP PULLEY DIAMETER	V-BELT LENGTH *	V-BELT P/No(s).
65	118	985	11A0985
65	N/A	825	11A0825

PULLEY P/No.	DESCRIPTION
99-PLY16239	Pulley, V-Belt Water Pump SBF

Supercharger speed calculated at engine speed of 6200 RPM
Max supercharger speed 18000 RPM (red cells indicate supercharger warranty void)
**With optional Harrop alternator mounting kit and CUSTOMER SUPPLIED GM CS130 alternator*

10PK PULLEYS and BELT 9.5" DECK HEIGHT:-

SUPERCHARGER PULLEY DIAMETER	CRANK PULLEY DIAMETER	10PK BELT P/No.	SUPERCHARGER SPEED
65	160	65-10PK2004	15250 RPM
70	160	65-10PK2004	14170 RPM
75	160	65-10PK2004	13220 RPM
80	160	65-10PK2010	12400 RPM
85	160	65-10PK2010	11650 RPM

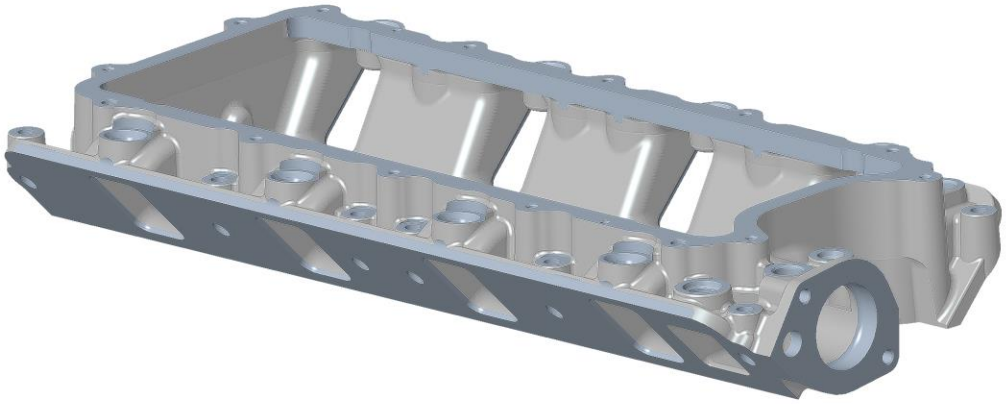
SUPERCHARGER PULLEY DIAMETER	CRANK PULLEY DIAMETER	10PK BELT P/No.	SUPERCHARGER SPEED
65	205	65-10PK2069	19550 RPM
70	205	65-10PK2075	18150 RPM
75	205	65-10PK2088	16950 RPM
80	205	65-10PK2088	15900 RPM
85	205	65-10PK2109	14950 RPM

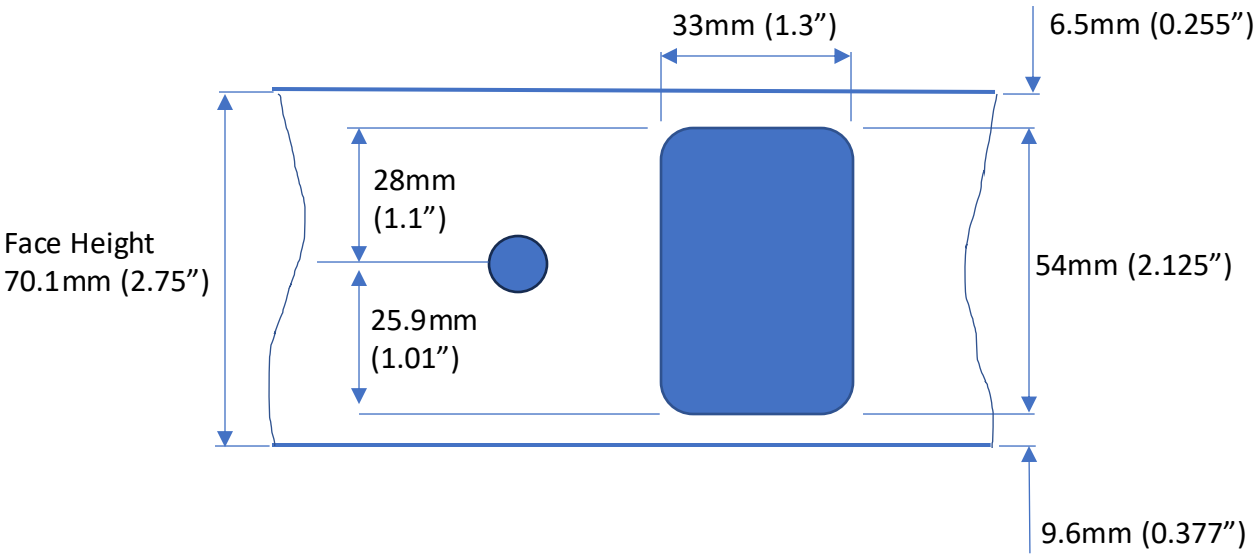
SUPERCHARGER PULLEY DIAMETER	CRANK PULLEY DIAMETER	10PK BELT P/No.	SUPERCHARGER SPEED
65	245	65-10PK2162	23400 RPM
70	245	65-10PK2162	21700 RPM
75	245	65-10PK2162	20250 RPM
80	245	65-10PK2167	19000 RPM
85	245	65-10PK2186	17870 RPM

ALTERNATOR PULLEY DIAMETER	WATER PUMP PULLEY DIAMETER	V-BELT LENGTH *	V-BELT P/No(s).
65	118	985	11A0985
65	N/A	825	11A0825

Supercharger speed calculated at engine speed of 6200 RPM
Max supercharger speed 18000 RPM (red cells indicate supercharger warranty void)
**With optional Harrop alternator mounting kit and CUSTOMER SUPPLIED GM CS130 alternator*

INTAKE PORT SPECIFICATIONS

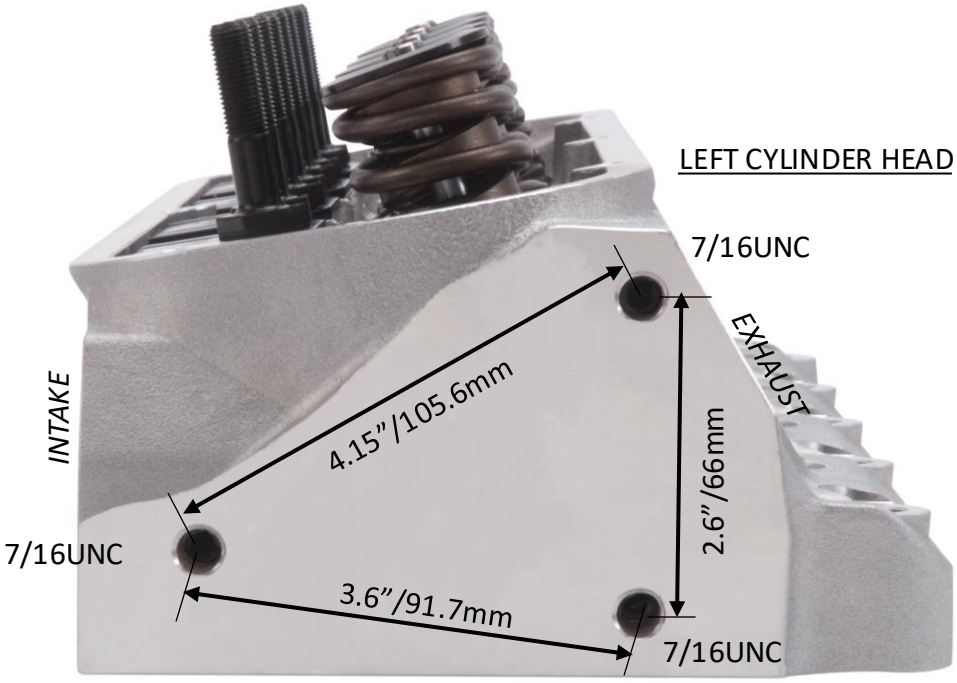




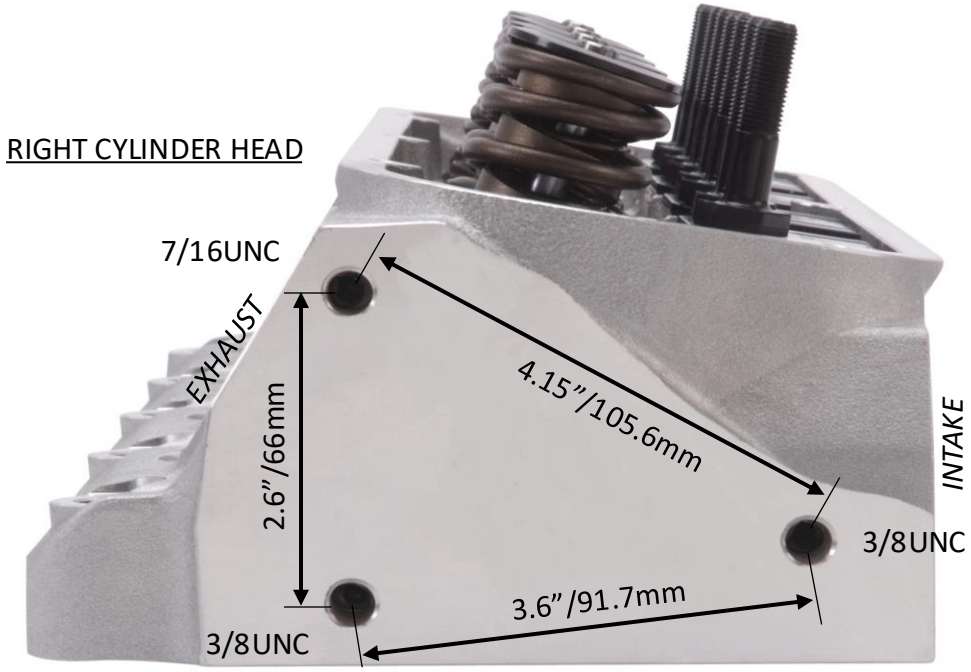
Harrop SBF Supercharger Lower Manifold port size
to suit an 8.2” deck height Small Block Ford engine.

CYLINDER HEAD ACCESSORY BOLT PATTERN

MOUNTING REQUIREMENT FOR 10PK HD DRIVE TENSIONER BRACKET ASSEMBLY



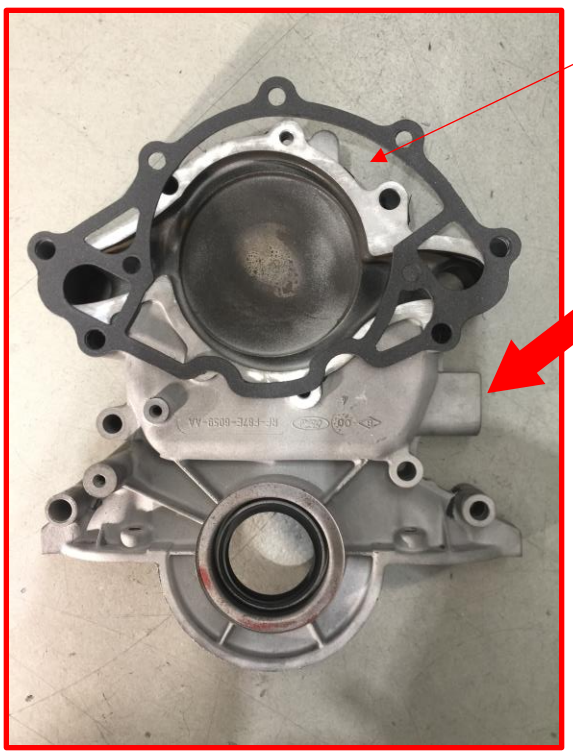
MOUNTING REQUIREMENT FOR 10PK HD DRIVE OPTIONAL ALTERNATOR BRACKET



WATER PUMP AND TIMING COVER – AS TESTED

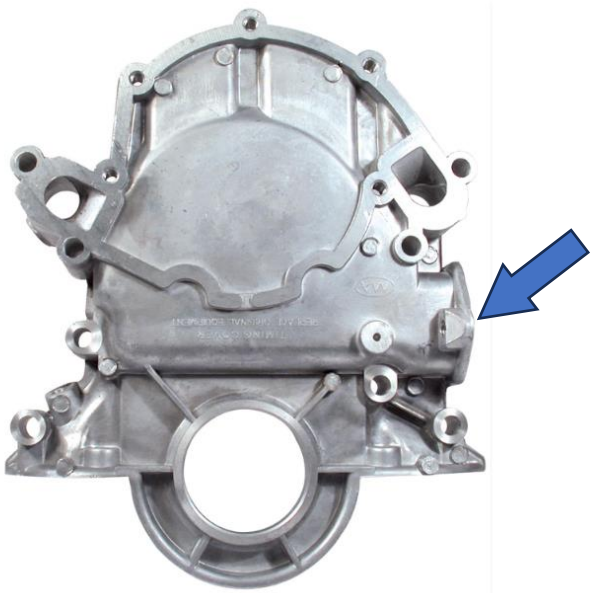
8PK Front Drive
Early Style Water Pump (CVF supplied)
5.7" tall, reverse rotation, 5/8" pilot,
Driver Inlet
(Use with Early Model Mechanical Fuel Pump Timing Cover, or Dorman 635-100)

10PK HD Drive
Early Style Water Pump (GMB) - SBF
5.7" tall, 5/8" pilot, Driver Inlet
(Use with Early Model Mechanical Fuel Pump Timing Cover, or Dorman 635-107)



The above Water Pumps DO NOT FIT this late model EFI style front timing cover

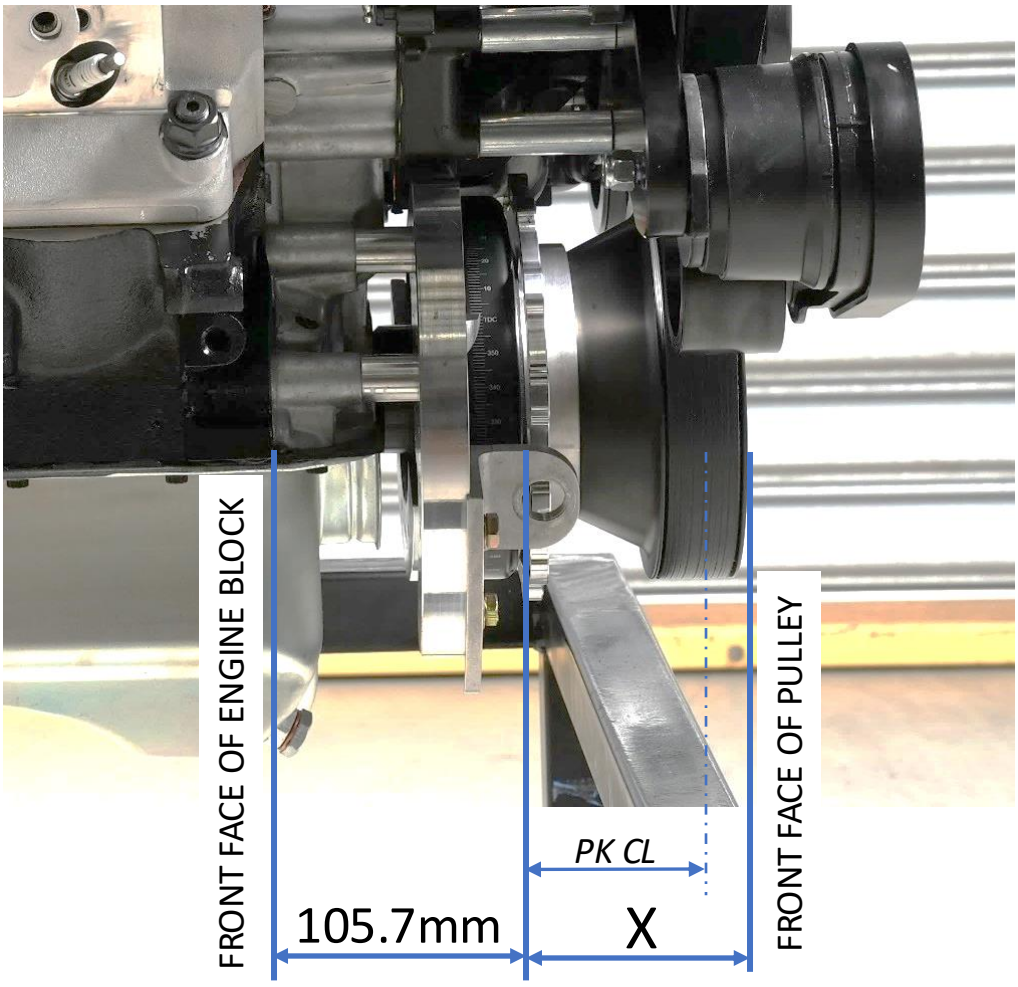
Late model "EFI style" Front Timing Cover
(1994-1995 Mustang)



Early model "mechanical fuel pump style" Front Timing Cover (as tested with 8PK and 10PK)

DORMAN Timing Cover
10PK HD Drive - Ref P/No 635-107
8PK Front Drive - Ref P/No 635-100

POSITION OF CRANK DAMPER MOUNT FACE

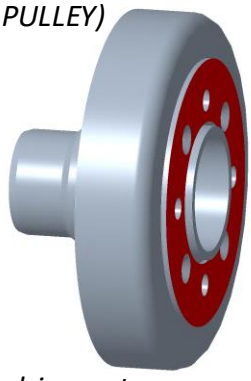


- 105.7mm - FRONT FACE OF ENGINE BLOCK TO FRONT OF CRANK DAMPER (MOUNT FACE)

- *PK CL – CRANK DAMPER MOUNT FACE TO CENTRE OF BELT (ie. CENTRELINE OF PULLEY)*
  8PK BELT = 69.8mm
  10PK BELT = 65.8mm
- *V-PLY CL – CRANK DAMPER MOUNT FACE TO CENTRE OF V-BELT (ie. CENTRELINE OF PULLEY)*
  10PK HD Drive V-BELT = 32.3mm
- X - CRANK DAMPER MOUNT FACE TO FRONT FACE OF PULLEY

  8PK BELT = 87.2mm

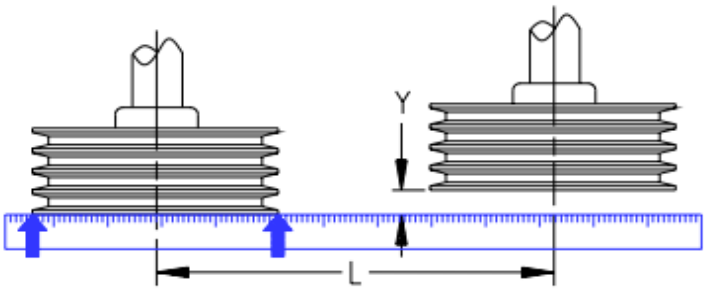
  10PK BELT = 86.9mm



Some machining maybe required to achieve belt/pulley alignment across the entire drive system.
Note:- The 8pk crank pulley, and the 10pk v-belt adapter have sufficient material thickness for machining, to accommodate a 10mm (max) thick "sandwich style" trigger wheel.

PULLEY ALIGNMENT:-

Some shimming/machining maybe required to achieve belt/pulley alignment across the entire drive system.

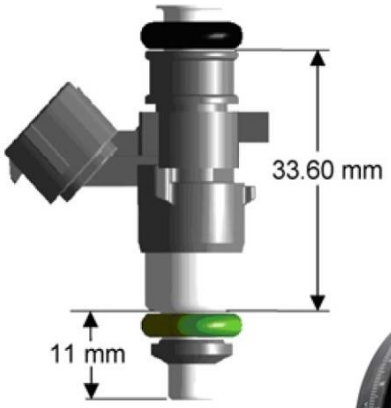


8PK PULLEY TO PULLEY L (mm)	MAXIMUM ALLOWABLE MIS-ALIGNMENT DISTANCE Y (mm)
ALTERNATOR TO P/S PUMP L=130mm	0.6mm

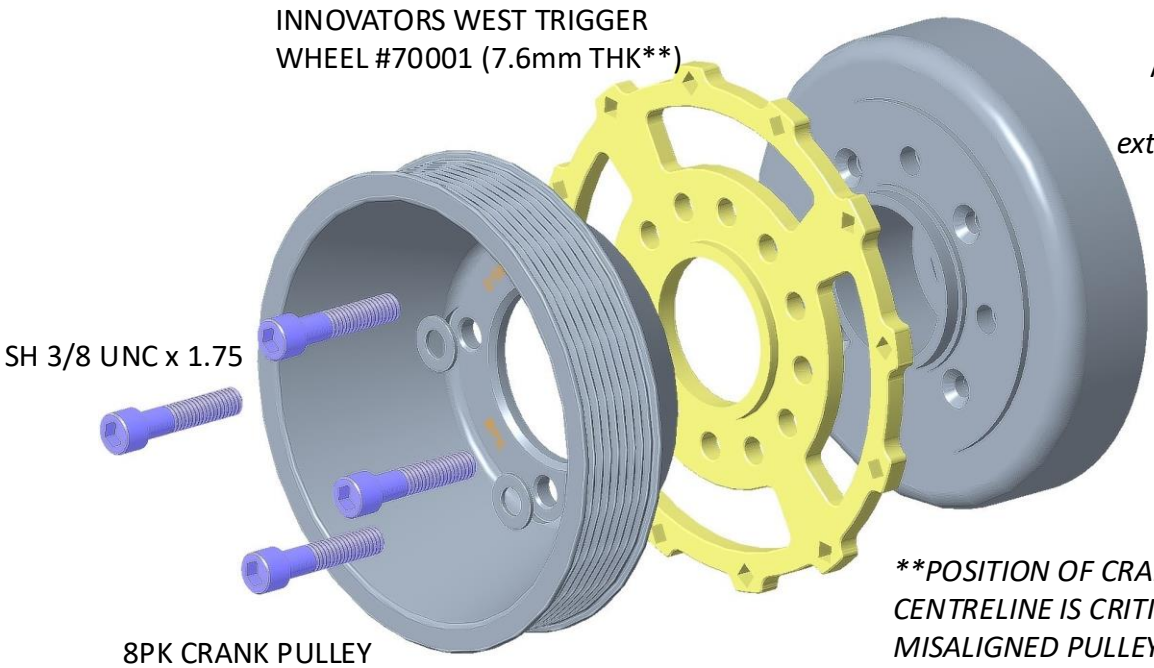
NOTE:- The CVF Idler pulleys have a decorative cap which “closes in” the 8PK belt. These idler pulleys must be aligned to eliminate any belt shredding.

10PK RIBBED PULLEY TO RIBBED PULLEY L (mm)	MAXIMUM ALLOWABLE MIS-ALIGNMENT DISTANCE Y (mm)
SUPERCHARGER TO TENSIONER BRACKET L=238mm	1.0mm
TENSIONER BRACKET TO CRANK L=313mm	1.3mm

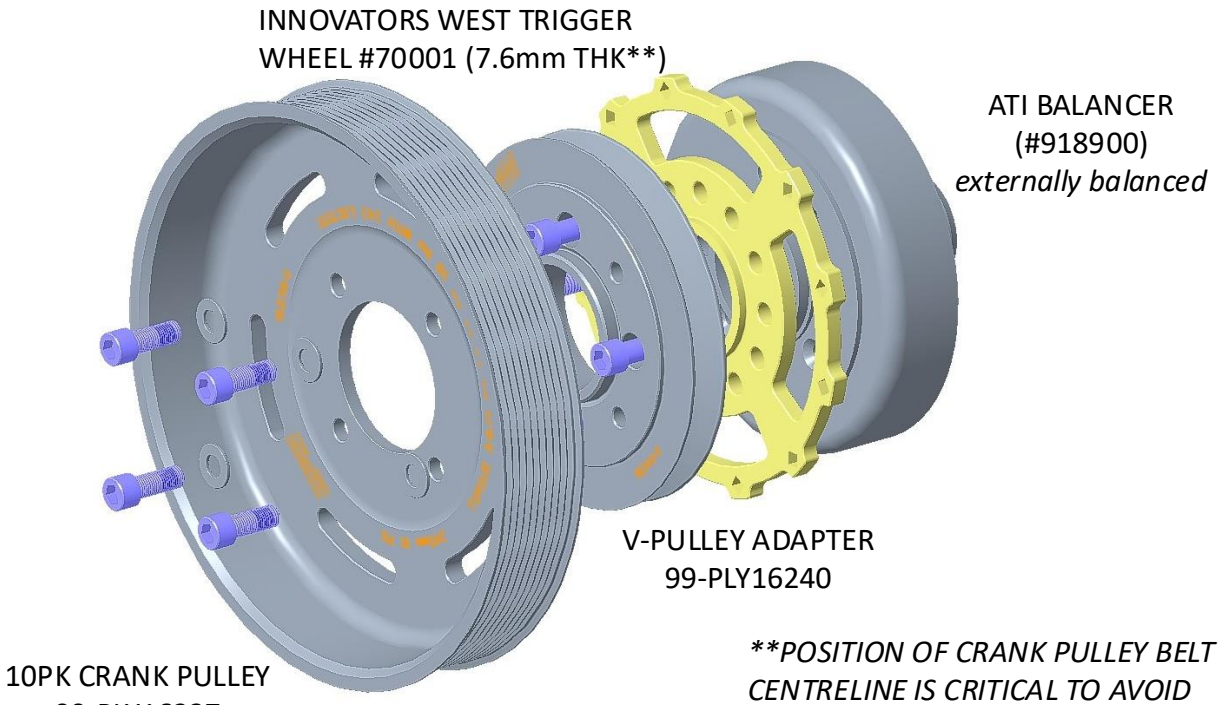
ADDITIONAL PARTS REQUIRED:



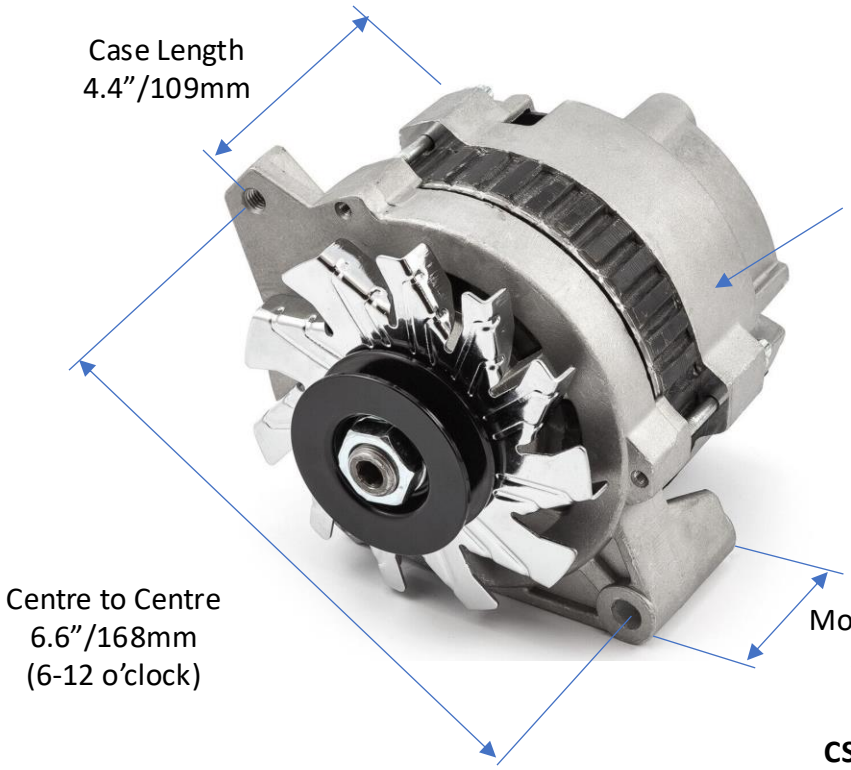
Harrop to supply (option)	Customer to supply
DW-GM Injector (USCAR) set/8-65lb/hr -680cc # 65-16U-00-0065-8 DW-GM Injector (USCAR) set/8-90lb/hr -945cc # 65-16U-00-0090-8 DW-GM Injector (Jetronic) set/8-115lb/hr -1200cc # 65-16MX-22-1200-8	EV14 Compact Fuel Injector (33.6mm across O-ring shoulders) x 8 req'd
	LS Style throttle body (104mm x 70mm 4 Hole Mount) - *if not using the 110mm integrated front cover Throttle Body*
	ATI Balancer (externally balanced #918900) ATI Balancer (internally balanced #918920)
	CAM Sync Sensor (MSD #85221), and retaining clamp
	Crank Trigger Assembly – RIGHT side location STD (Innovators West #7001)
Generic Intercooler Kit A12953 (Intercooler size 560mm x 305mm x 40mm)	Intercooler, pump, reservoir bottle, hoses and clamps
	Gaskets for Intake manifold and thermostat housing
99-PLY16239 V-Pulley (use with mechanical water pump) – 10PK HD Drive only	
Bracket Asm Alternator Mount HD #A16351 *(to suit a v-belt GM CS130 140amp Alternator with 6-12 oclock mtg and 6"bolt spacing – NOT SUPPLIED)* – 10PK HD Drive only	Alternator (v-belt), and modified alternator mount – 10PK HD Drive only



8PK FRONT DRIVE CRANK PULLEY ASSEMBLY

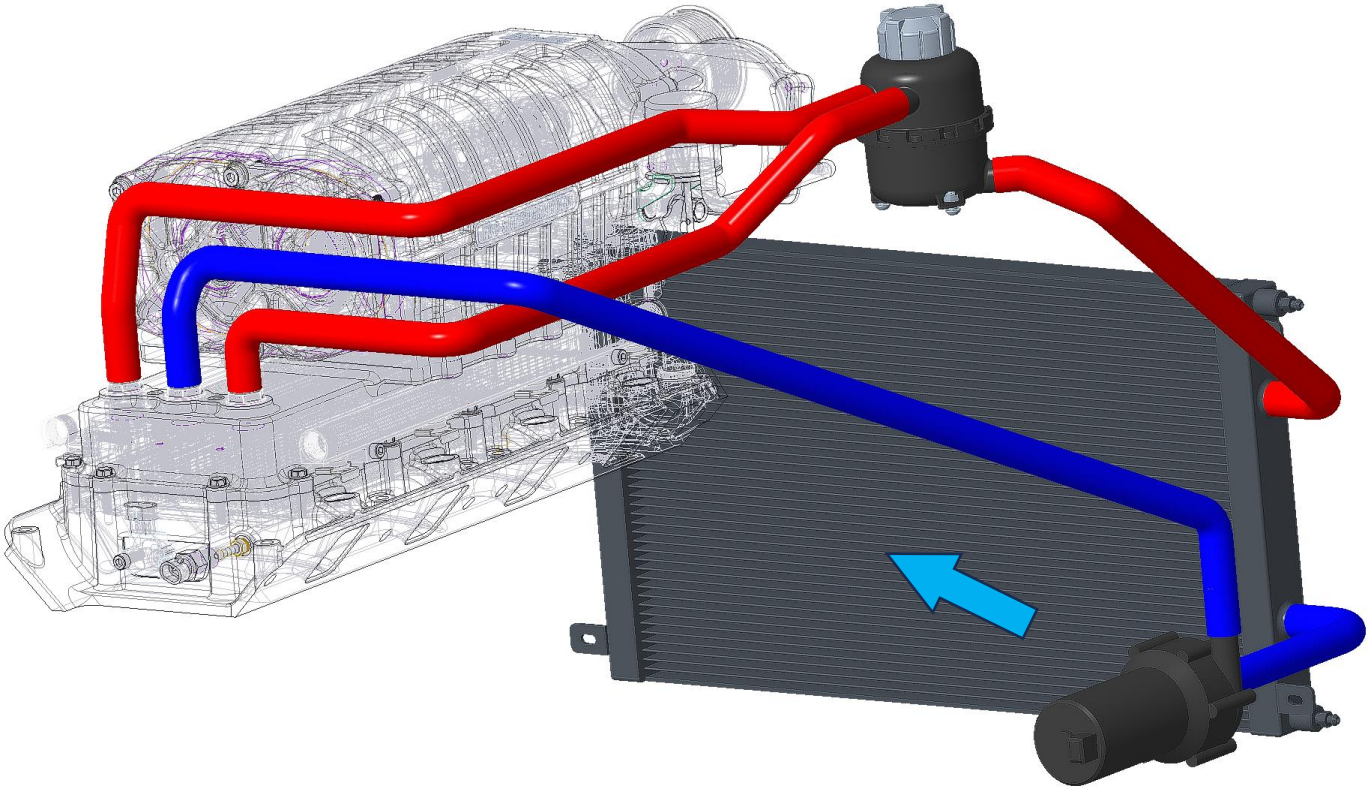


10PK HD DRIVE CRANK PULLEY ASSEMBLY



CS130 ALTERNATOR – 1 wire

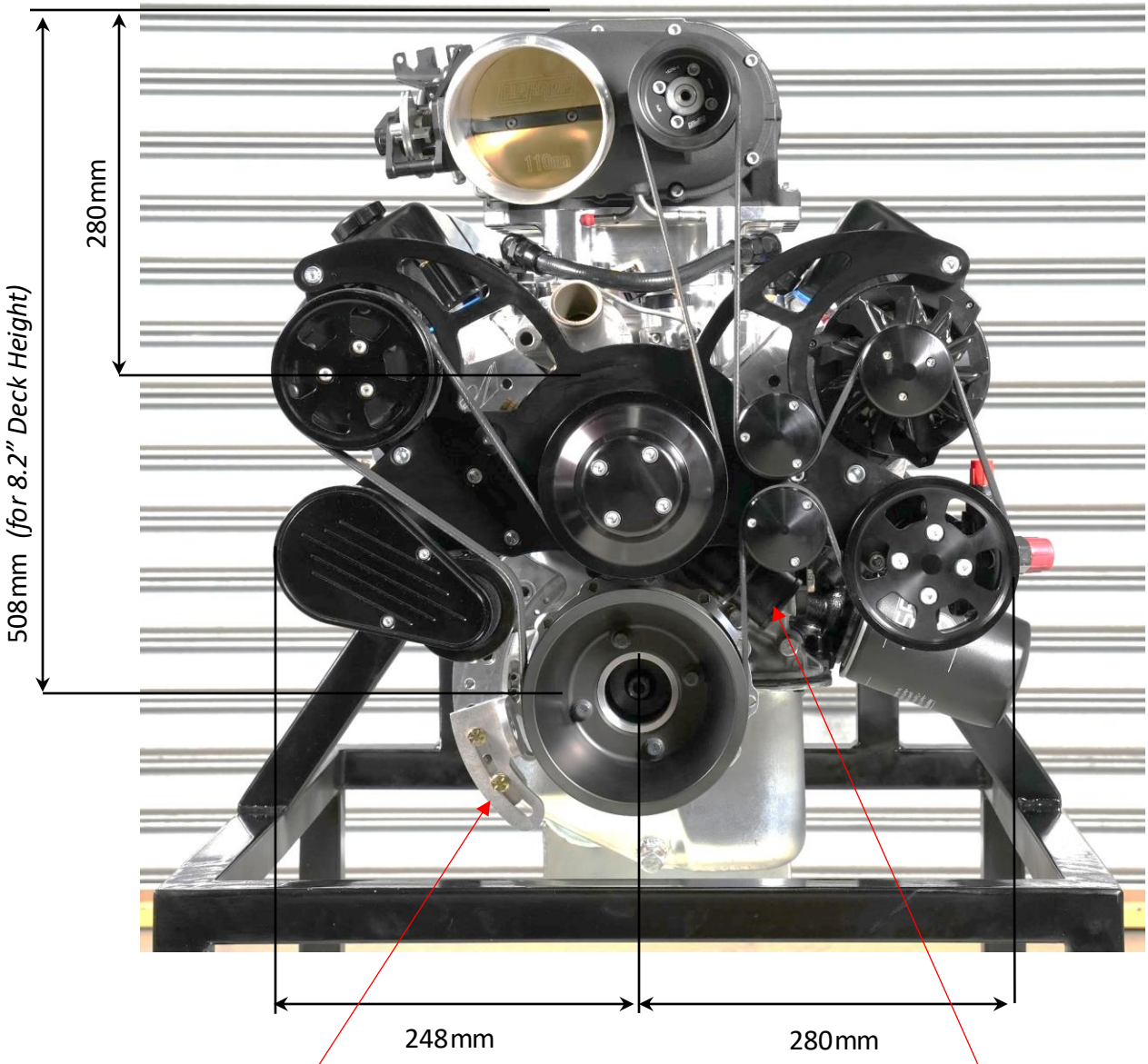
GENERIC INTERCOOLER ROUTING



Engine kit does not include reservoir, radiator, pump or hoses

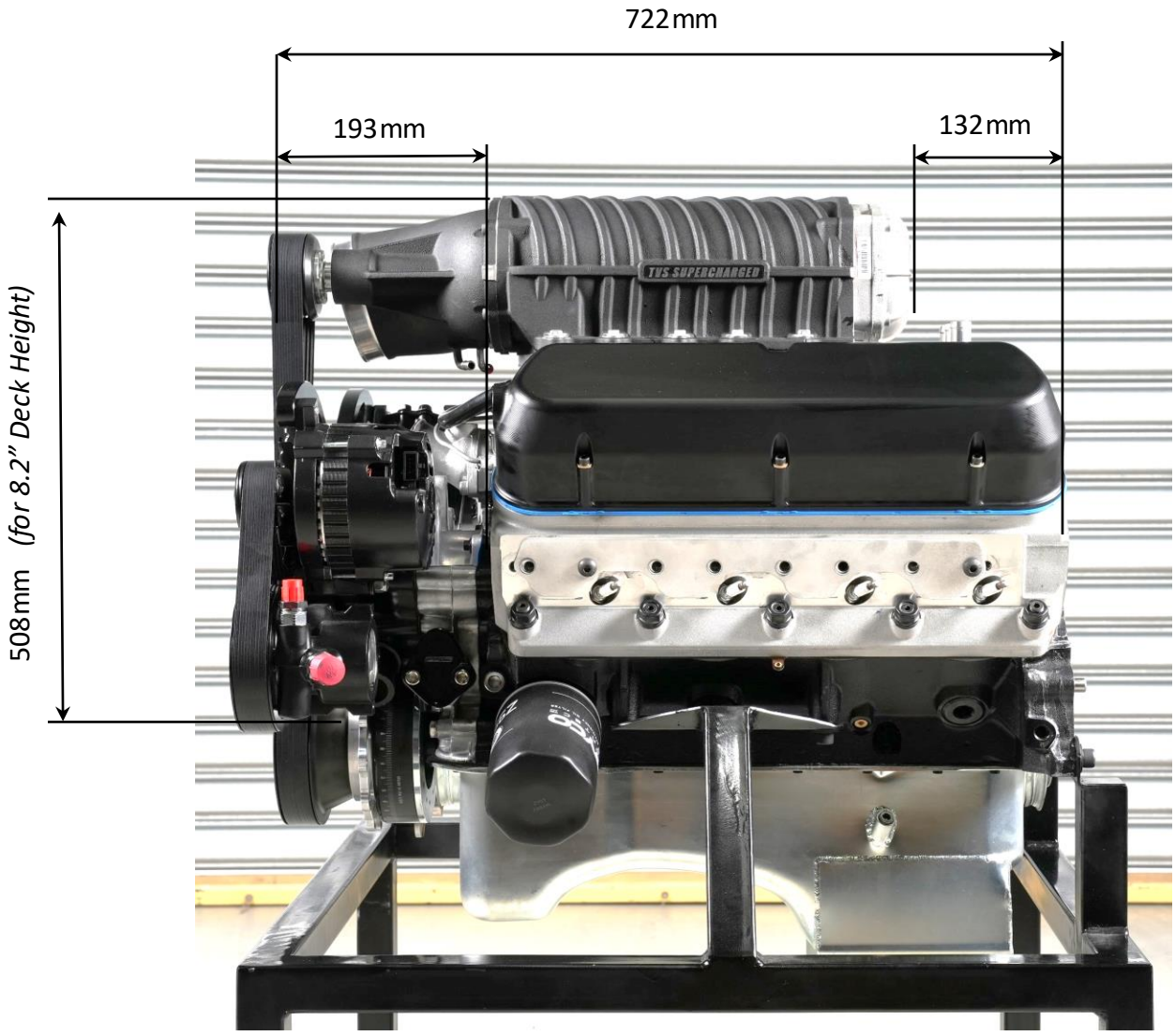
- Illustration is a generic coolant circuit diagram.
- Blue arrow indicates flow direction
- Intercooler reservoir must be mounted at the highest point in the circuit
- Intercooler pump must be mounted lower than the intercooler reservoir
- Intercooler system must be filled with a 1:1 mix of GM6277M coolant concentrate and distilled or deionised water
- Optional:- *KIT-INSTALLATION, INTERCOOLING, GENERIC, FDFI, SUPERCHARGER – A12953*

8PK FRONT DRIVE



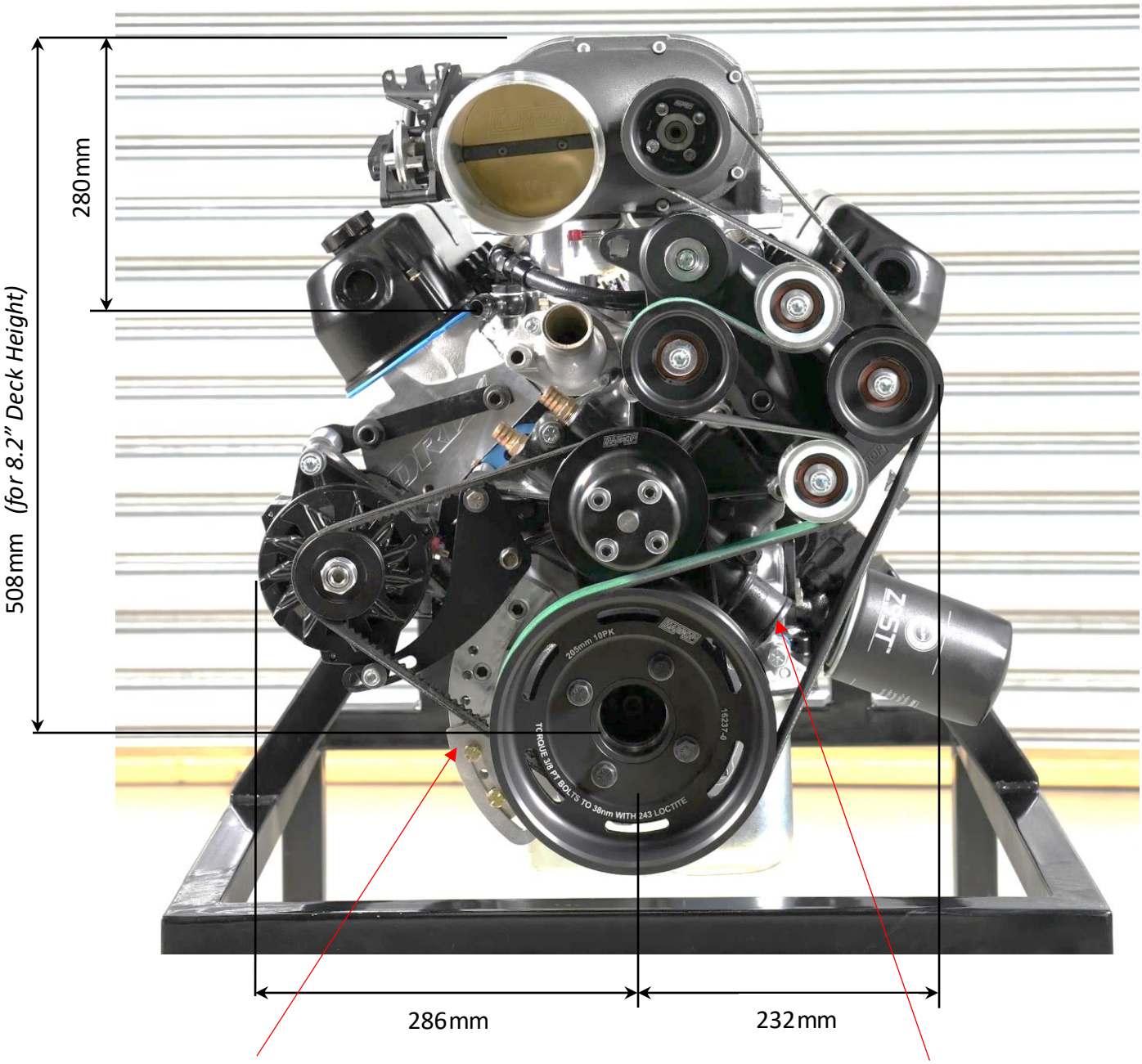
508mm C/L OF CRANK TO TOP OF S/C
280mm TOP OF BLOCK TO TOP OF S/C
248mm C/L OF CRANK TO OUTSIDE OF HD TENSIONER
280mm C/L OF CRANK TO OUTSIDE OF POWER STEERING PUMP

8PK FRONT DRIVE



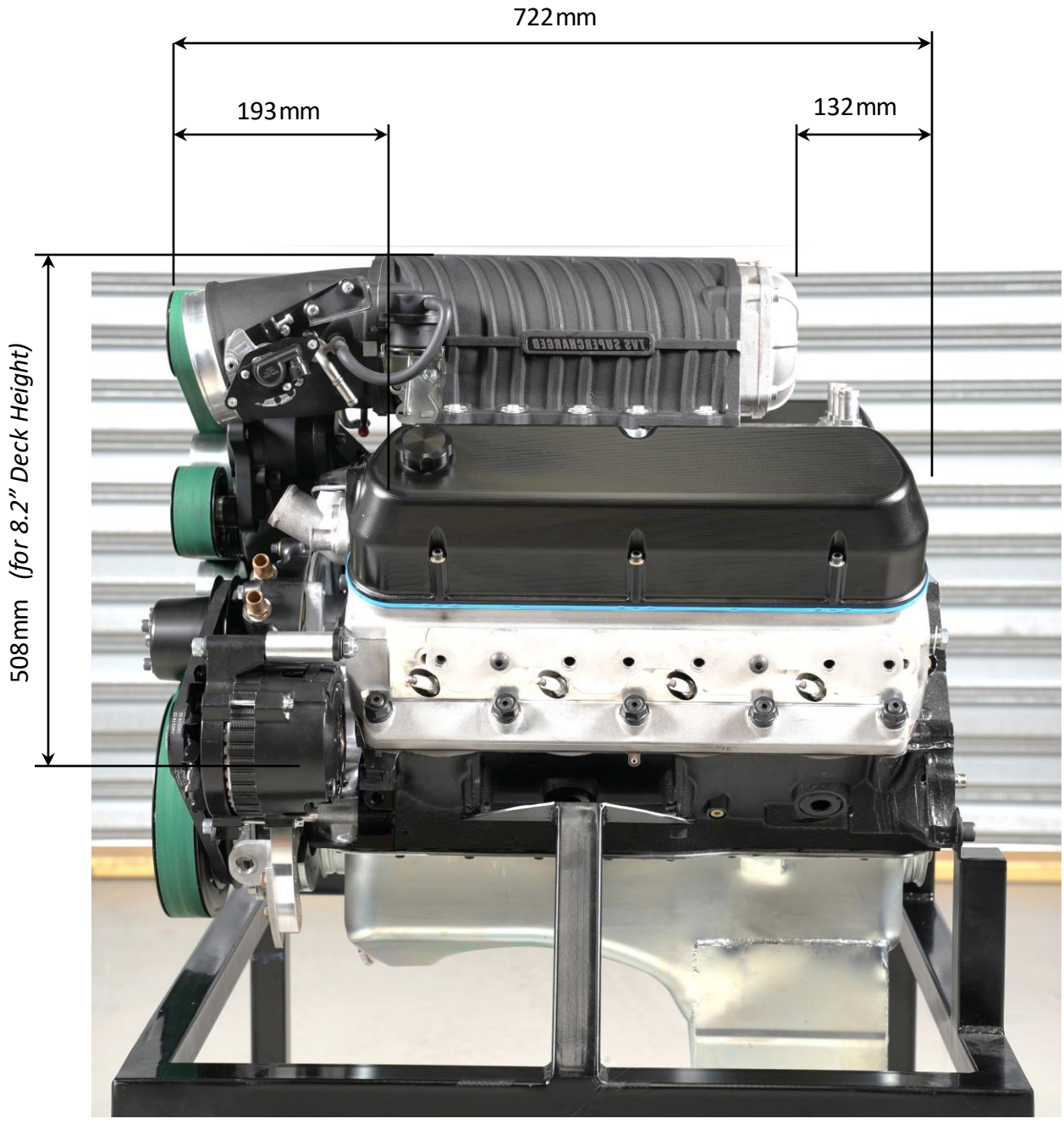
508mm C/L OF CRANK TO TOP OF S/C
193mm FRONT FACE OF BLOCK TO FRONT FACE OF S/C PULLEY
132mm REAR FACE OF BLOCK TO REAR FACE OF S/C
722mm REAR FACE OF BLOCK TO FRONT FACE OF S/C PULLEY

10PK HD DRIVE



508mm C/L OF CRANK TO TOP OF S/C
280mm TOP OF BLOCK TO TOP OF S/C
286mm C/L OF CRANK TO OUTSIDE OF ALTERNATOR AT MAX TRAVEL
232mm C/L OF CRANK TO OUTSIDE OF PULLEY

10PK HD DRIVE



508mm C/L OF CRANK TO TOP OF S/C
193mm FRONT FACE OF BLOCK TO FRONT FACE OF S/C PULLEY
132mm REAR FACE OF BLOCK TO REAR FACE OF S/C
722mm REAR FACE OF BLOCK TO FRONT FACE OF S/C PULLEY

Performance Table: SBF and Harrop TVS2650

ENGINE	COMPONENTS	POWER CORRECTION	POWER HP	TORQUE ft lbs	BOOST	SC PULLEY DIAMETER	FUEL
Ford 363ci 8.2"Windsor Boss 302 Block DRP Cylinder Heads Hydraulic Roller Cam Roller Rockers Performance Valve Springs Performance Pushrods	Naturally Aspirated Dual Plane Carby Intake	SAE 2004	442 hp	396 ft lbs	-	-	98 RON
Above combination	Harrop TVS2650 Supercharger Kit 110mm Throttle Body Harrop 160mm Crank Pulley 8rib front drive system with A/C & P/S	SAE 2004	812 hp	633 ft lbs	14 PSI	75MM	98 RON
Above combination	Above combination with E85	Above combination	878 hp	688 ft lbs	14 PSI	75MM	E85
Above combination	Harrop TVS2650 Supercharger 110mm Throttle Body 10rib HD Drive System ALT Only 205mm Crank Pulley	Above combination	922 hp	756 ft lbs	18.4 PSI	85MM	Above combination
Above combination	Above combination with alt size s/c pulley	Above combination	978 hp	803 ft lbs	20.3 PSI	80MM	Above combination
Above combination	Above combination with alt size s/c pulley	Above combination	1007 hp	839 ft lbs	22.7 PSI	75MM	Above combination

The above Performance figures were obtained from a SuperFlow Engine Dyno

To watch the Harrop TVS2650 Supercharger Engine kit on the Small Block Ford, click the link below

https://www.youtube.com/watch?v=HW7L86FGQB0&pp=ygUKaGFycm9wIHNiZg%3D%3D

FAQs:

Will this kit fit my 351 Cleveland?
This Harrop Supercharger Engine Kit has been installed, tested and verified, on a Small Block Ford engines with 8.2" deck heights and 9.5" deck heights i.e., 289-302-351 Windsor engine block with Windsor style cylinder heads.

The CVF 8pk Drive kit supplied suits a Windsor water pump and timing case covers listed on page 18.

Will this kit fit my 302W Ford Falcon?
This Harrop Supercharger Engine Kit was installed, tested and verified, on an 8.2" deck height Small Block Ford with early style mechanical timing case cover, and early style water pump. Refer to tech guide above for dimensions and timing cover details.

I'm using a different trigger wheel to the one shown?
Machining of the 10pk v-pulley adapter, or 8pk crank pulley maybe required to suit a max 10mm thick trigger wheel. Alternatively, a spacer (not supplied) maybe required to maintain the dimension shown in the above Tech Guide.

Can I use an original style distributor?
No, it will not fit. Harrop suggest a Cam Sync Sensor. Check with your engine builder and tuner.

The Crank Trigger doesn't fit onto the crank damper?
Using an alternate damper and trigger wheel to those specified in the Tech Guide may require machining.

Can I use my existing Crank Damper?
No. Use ATI BALANCER, and I-W TRIGGER WHEEL. Refer tech guide.

My belt jumps off?
Check belt length, and tensioner travel. Check all pulley alignment (using a laser, or long straight edge…refer pulley alignment chart).

The belt squeals, and, or I'm losing power?
Ensure all pulleys and belt are aligned, clean and free of contaminants. Check tensioner functionality. A shorter belt maybe required.

Can I use my mechanical fan?
This has not been tested or verified, and is up to the customer.

Is there a smaller Supercharger available?
Yes, the TVS2300. The top of the housing is 9mm lower, 12mm shorter at the rear, and has the same mounting and pulley locations as the TVS2650.

FAQs:

8PK DRIVE:-

Is a larger alternator available?
A 300amp is available – refer CVF web site.

I want to use my current power steering pump.
Refer CVF web site (GM pump bolts to main bracket, Hydroboost and Saginaw Pumps require a CVF mount kit).

The CVF supplied water pump doesn't fit my timing cover
This water pump only fits the early type timing chain cover with mechanical fuel pump mount (or Dorman 635-100 Cover).
Refer Tech Guide page 18.

Can I use an electric water pump for the 8PK Drive option?
No.

10PK HD DRIVE:

I'm using a different alternator to the one listed on page 8 of the Tech Guide?
The alternator tested was a 140 Amp GM CS130 Alternator with 6-12 O'clock mounting and 6.6" bolt spacing mounted to a Harrop Bracket Assembly Alternator Mount HD #A16351.
The 10PK HD Drive has a unique v-belt offset. You will need to work out your own mounting strategy and v-belt length depending on your desired alternator type and position, if not using the above tested components.

Can I use my stock alternator bracket?
Your bracket will require modifications to achieve the desired unique v-belt position. See above.

Can I use an electric water pump for the 10PK HD Drive option?
This has not been tested or verified, and is up to the customer
IMPORTANT: Maintain clearance to the 10PK belt tensioner thru its travel. An alternate length v-belt for the alternator is required.

Will the 10PK HD Drive suit a "late model" EFI timing cover?
This has not been tested or verified, and is up to the customer. Refer Tech Guide page 18.