

ARP-K-GM-LS1007/LS1014

99-07/07-14 SILVERADO V8

INSTALLATION GUIDE



QUALITY AMERICAN MADE SUPERCHARGERS



Installation Instructions

99-13 Silverado Tuner kit

ARP-K-GM-LS1007

ARP-K-GM-LS1014



STEP 1

Disconnect battery.

For the LS-1007-14 kit, the water pump must be a truck GM19195104 or GM19208815. The O.E. style metal water pump gaskets must also be used.

Unplug Maf sensor and remove factory airbox and intake from throttlebody.



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STEP 2

Remove clutch fan and shroud.

STEP 3

Drain coolant and remove lower radiator hose.

STEP 4

Remove factory thermostat housing.

Install straight neck with desired thermostat. Make sure oring is seated properly to insure there are no leaks. Re-use factory bolts.

Torque to 11ft lbs

Note: O.E. style metal water pump gaskets must be used.



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STEP 5

Measure the drill bit through your alignment tool.

Make sure it is through .850" from the end of the taper of the drill bit to the inside face of the tool. Wrap a piece of tape around the back side of the tool on the drill bit.

Slide the bit out of the tool. Check your measurement.

From the end of the taper to the tape should be 1.650".



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STEP 6

If using the ATI pulley, install using ATI instructions. Press on and use the shorter pins in the pin kit. Apply sealant to the keyway of the ATI so oil doesn't leak through.

Install the pin tool with supplied bolt. Snug down so tool is locked in position while drilling.

Install drill bit into your drill of choice, a 90 degree air drill works well for fitting into tight areas. Make sure you drill in till the tape hits the surface of the tool. Repeat process for the other hole.

Clean shavings from area.



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STEP 7

For stock balancer and hub.

Insert longer pins into holes in hub.

Install the hub into the crank face, lining up the drilled holes.

Be sure the hub is seated flat against the crank face.



STEP 8

Apply red loctite and install supplied bolt

Tighten to factory torque specs

GM 219 ft. lbs



STEP 9

Install supercharger crank pulley using (4) 5/16

bolts and washers. Use loctite

Torque to 19ft lbs



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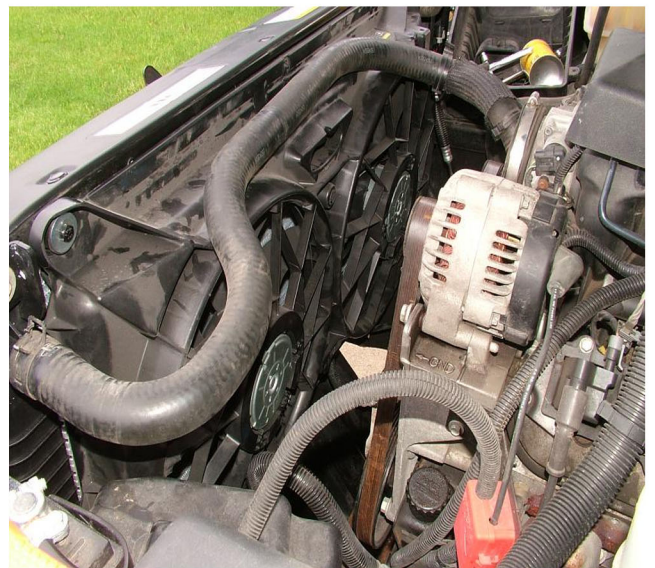


STEP 10

For 99-06 models

In order to run the Torqstorm silverado tuner kit you must switch to an electric fan setup like what is found in the late model 07+ silverado. Verify your radiator width to see what fan setup you will need.

This will increase fuel mileage and horsepower, as well as clean up the engine bay. While giving proper clearance for the Supercharger belt drive and lower coolant hose.



Suggestion for electric fan swap

<http://www.pcmofnc.com>

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STEP 11

Assuming you have EGR deleted.

Install head plate to passenger side head (ARP-GM10030)

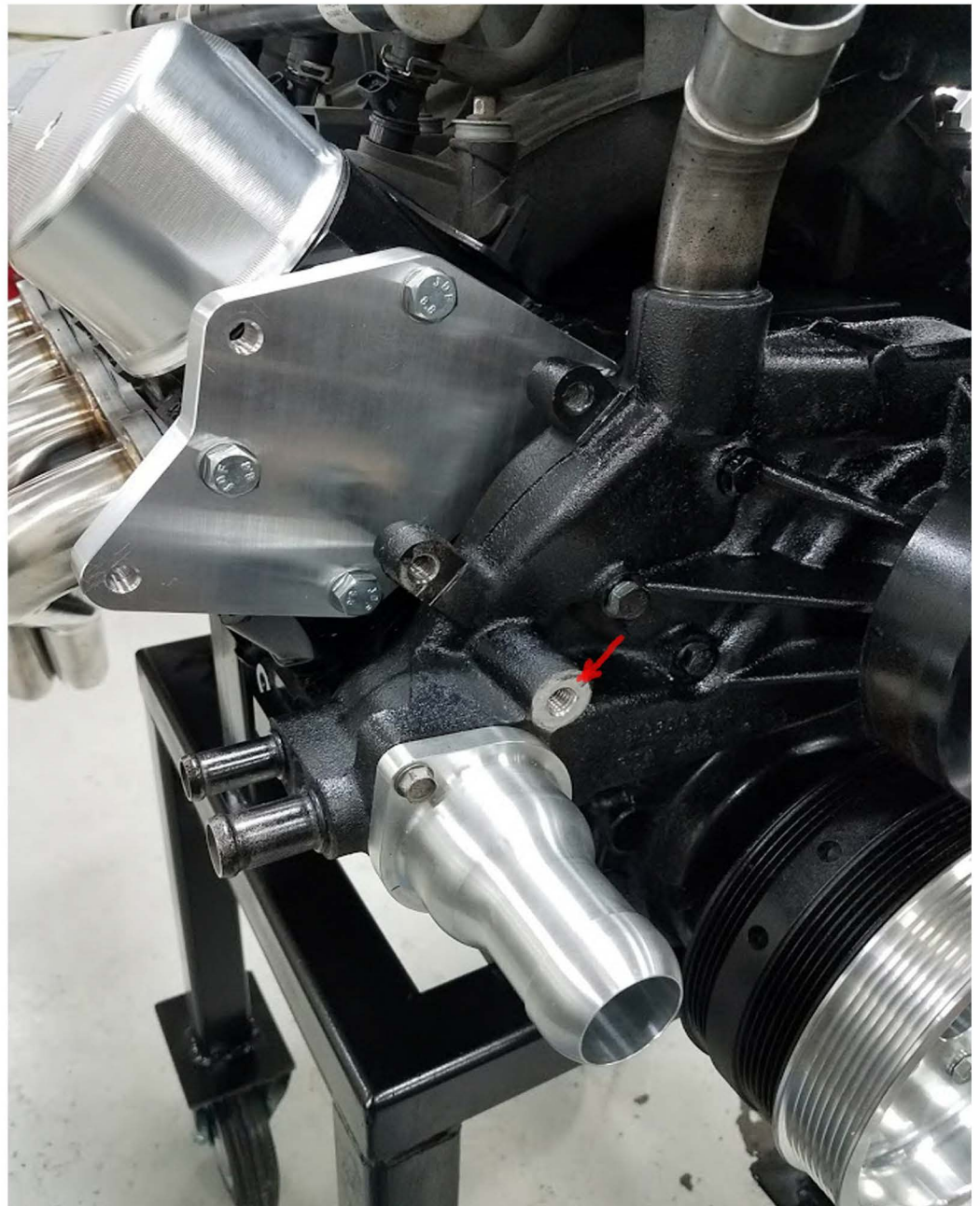
using four M10 x 1.5 x 30mm bolts and washers.

Insert the bottom right corner bolt and washer before mounting the plate.

If you do not the bolt is too long to insert once the plate is mounted.

Tighten to 29 ft lbs

The 3rd (bottom) accessory tensioner bolt does not get used. Remove and discard.



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STEP 12

Verify that your accessory tensioner measures what is shown in the image to the right. $+.010/-0.010$ is a acceptable tolerance. failure to check this, and having the tensioner out of our recommended tolerance will result in belt issues. Dayco 89253 is a replacement partnumber

Be sure that the 3rd lower bolt in the accessory tensioner is removed. failure to remove this will result in a bent bracket



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STEP 13

Install (2) M10x 1.5 x 120mm bolts through (2)

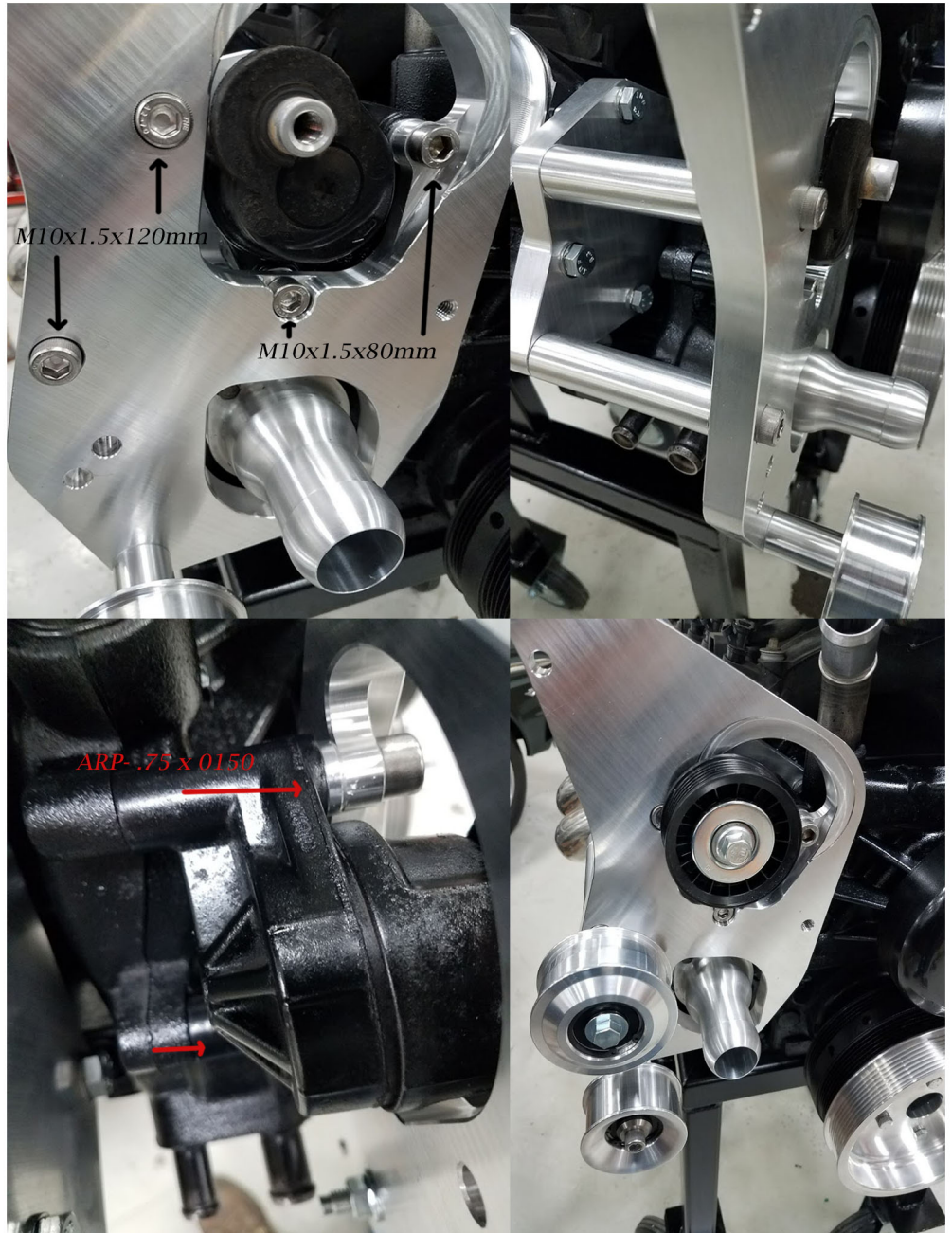
ARP-1.0 x 3700 spacers.

Install (2) M10 x 1.5 x 80mm through (2) ARP-.75 x 0150 spacers on the accessory tensioner.

Tighten to 29 ft lbs

Then re-install the accessory tensioner pulley and supercharger tensioner and nut.

Tighten to 29 ft lbs



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STEP 14

*Mount the supercharger head unit
using (7) 3/8-16 x 1-1/4 shcs
and AN washers.*

Torque to 27 ft lbs.

*Adjust the supercharger outlet for
plumbing alignment prior to
mounting on bracket. To do so
loosen the v-band clamp to rotate and*

*Tighten until the compressor housing
can no longer spin. Roughly 1/2" of threads showing.
Do not overtighten. This will stretch out the clamp.*



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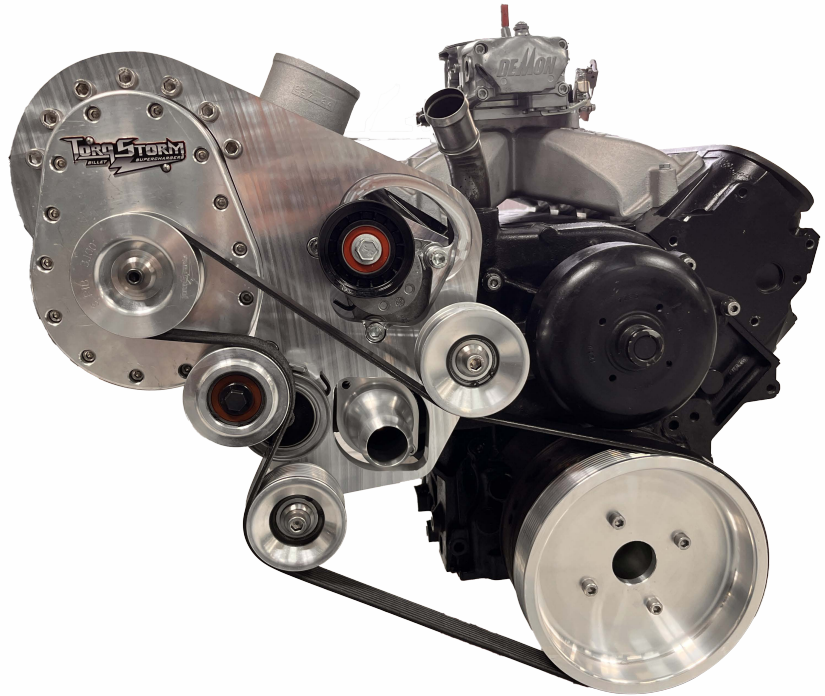
ARP-K-GM-LS1007

ARP-K-GM-LS1014



STEP 15

Now that your supercharger and crank pulley are mounted, re-install the accessory belt per factory routing. Using a 13mm wrench carefully turn the tensioner counter clockwise to release tension and install the supercharger belt as shown. Double check to make sure the belts are properly installed.



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STEP 16

Install ARP-BOV-TORQ-52 BOV between the supercharger and TB. A type of intercooler, air to air/air to water will allow the supercharger to be more efficient. Connect to a vacuum source from the intake with ARP-27043 7/32 vacuum line.



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STEP 17

Plumb the charge pipe to fit your vehicle, you may have to adjust the supercharger scroll.

An intercooler is suggested for maximum performance and reliability.

Note: Do not over tighten V-band clamp on scroll.

Tighten clamp until scroll cannot be rotated. Approx. 1/8"-1/4" threads showing past nut on clamp.

STEP 18

Install air filter with ARP-2890 3.5" aluminum tube. Fit to vehicle, modification may be required to fit in desired location.



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- *Replace all spark plugs with one or two heat ranges cooler.*
- *Fuel/ Ignition managment system must be tuned when installing Torqstorm Supercharger.*
- *Reconnect battery*
- *Double check all fittings, bolts, clamps. Make sure all wires and lines are properly secured with clamps or wire ties .*
- *Make sure fuel tank is filled with 91 octane or higher fuel.*
- *Start engine and allow to idle a few minutes then shut down.*
- *Recheck to be sure that no hoses, wires, ect are near the exhaust or headers.*
- *Recheck tune before commencing test drive.*
- *After test drive examine all bolts, belts and check for leaks or running issues before finishing with the vehicle.*

Oil must be changed every 10k miles or once a year, whichever comes first.

Order oil direct from TorqStorm. Part number ARP-OIL-MTL

Your TorqStorm Supercharger will have a 1 year limited warranty from the date on your paid invoice.

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Additional information for Boost

- It is suggested to run a wideband o2 sensor to monitor correct air/fuel ratio. 11.5 is ideal for 91 octane or higher pump gas.

- PLEASE TAKE SPECIAL NOTE: Operating the vehicle without all the sub assemblies completed and properly installed and working may cause FAILURE OF MAJOR ENGINE COMPONENTS.

- If you have any questions or concerns contact us at sales@torqstorm.com

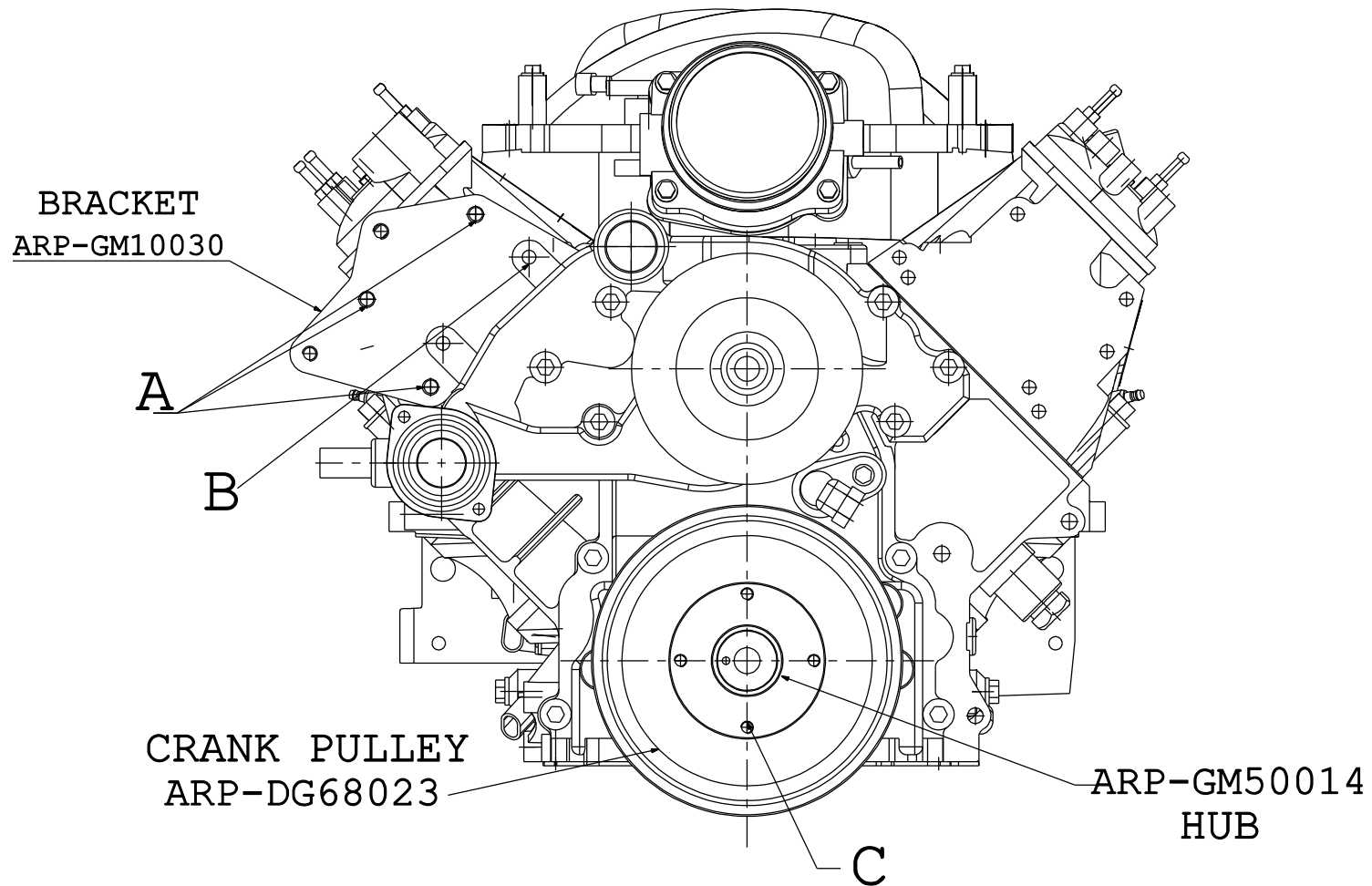
- Torqstorm superchargers come from the factory filled with 6 oz of ARP-OIL-MTL

Supercharger is ready to run

Send us pics of your install. We like to see them!!

Enjoy and be safe.

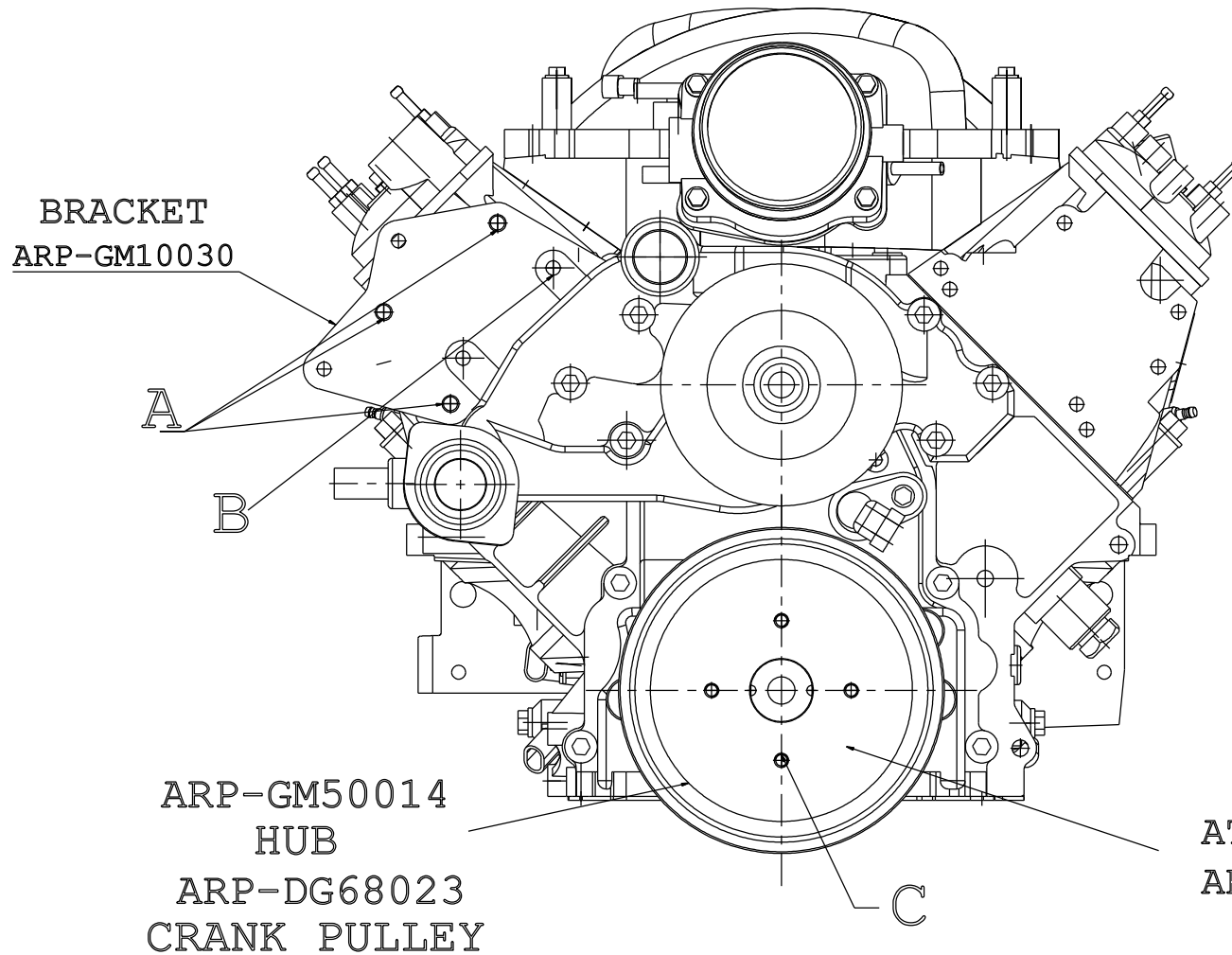
HEAD BRACKET LAYOUT



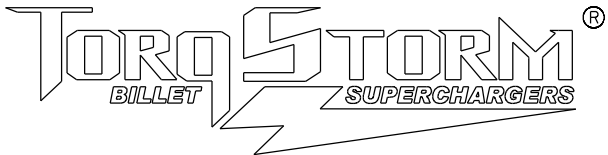
A = 3 @ M10 x 1.5 x 35mm SS HHB
B = 1 @ M10 x 1.5 x 30mm SS HHB
A-B = 4 @ 3/8 AN SS WASHERS
C = 4 @ 5/16-24 x 3/4 HHB

Description
HEAD BRACKET LAYOUT
Part #
ARP-K-GM-LS1003-LS1007-LS1014
TORQSTORM [®] BILLET SUPERCHARGERS

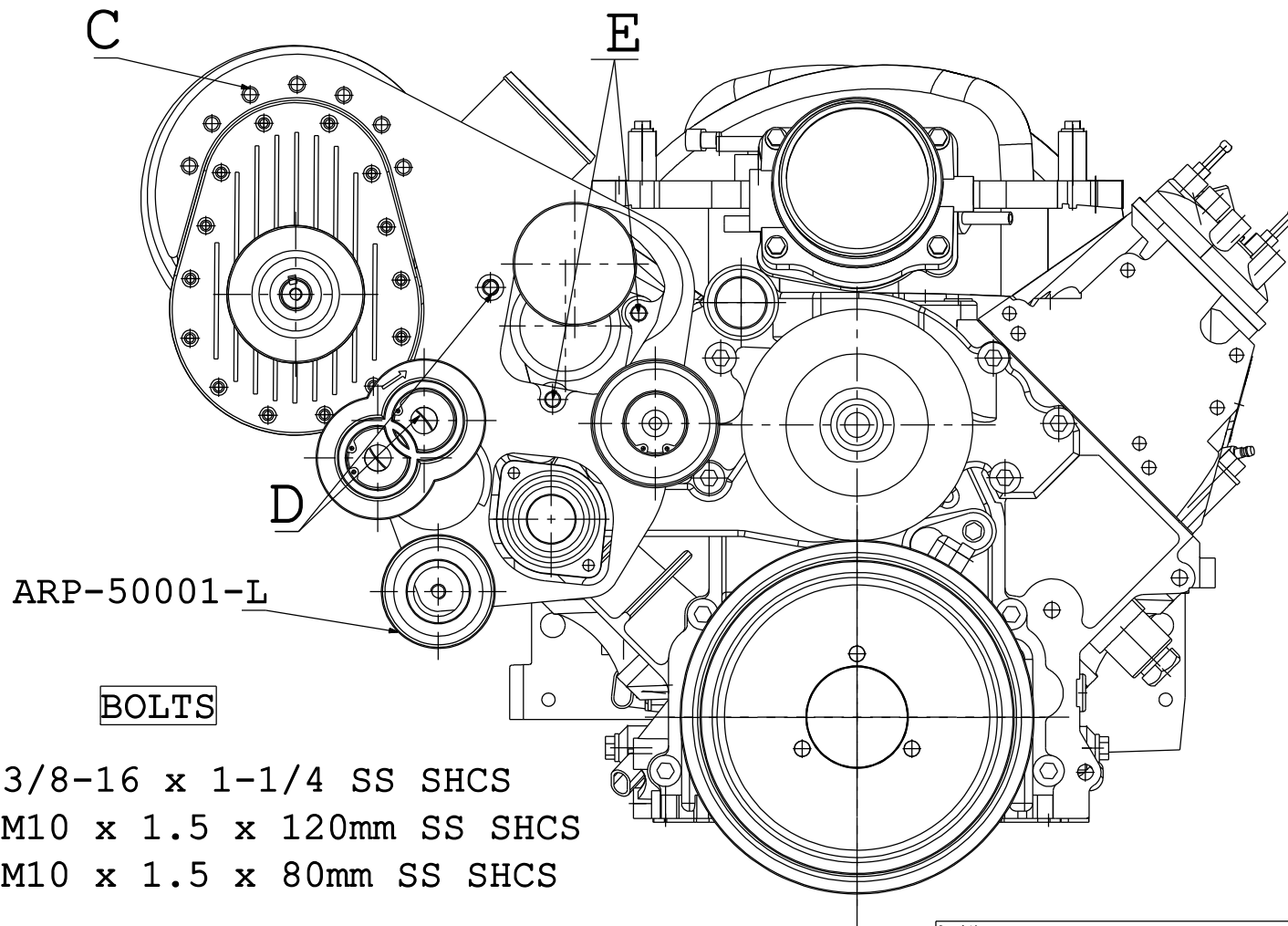
HEAD BRACKET LAYOUT



A = 3 @ M10 x 1.5 x 35mm SS HHB
B = 1 @ M10 x 1.5 x 30mm SS HHB
A-B = 4 @ 3/8 AN SS WASHERS
C - HUB = 4 @ 5/16-24 x 3/4 HHB
C - ATI = SUPPLIED WITH ATI DAMPER

Description	HEAD BRACKET LAYOUT
Part #	ARP-K-GM-LS1003/LS1007/LS1014
	

SUPERCHARGER BRACKET LAYOUT

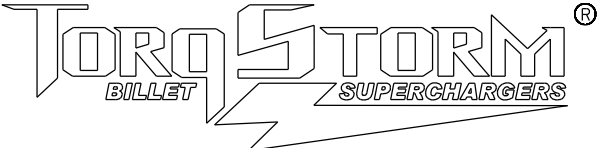


BOLTS

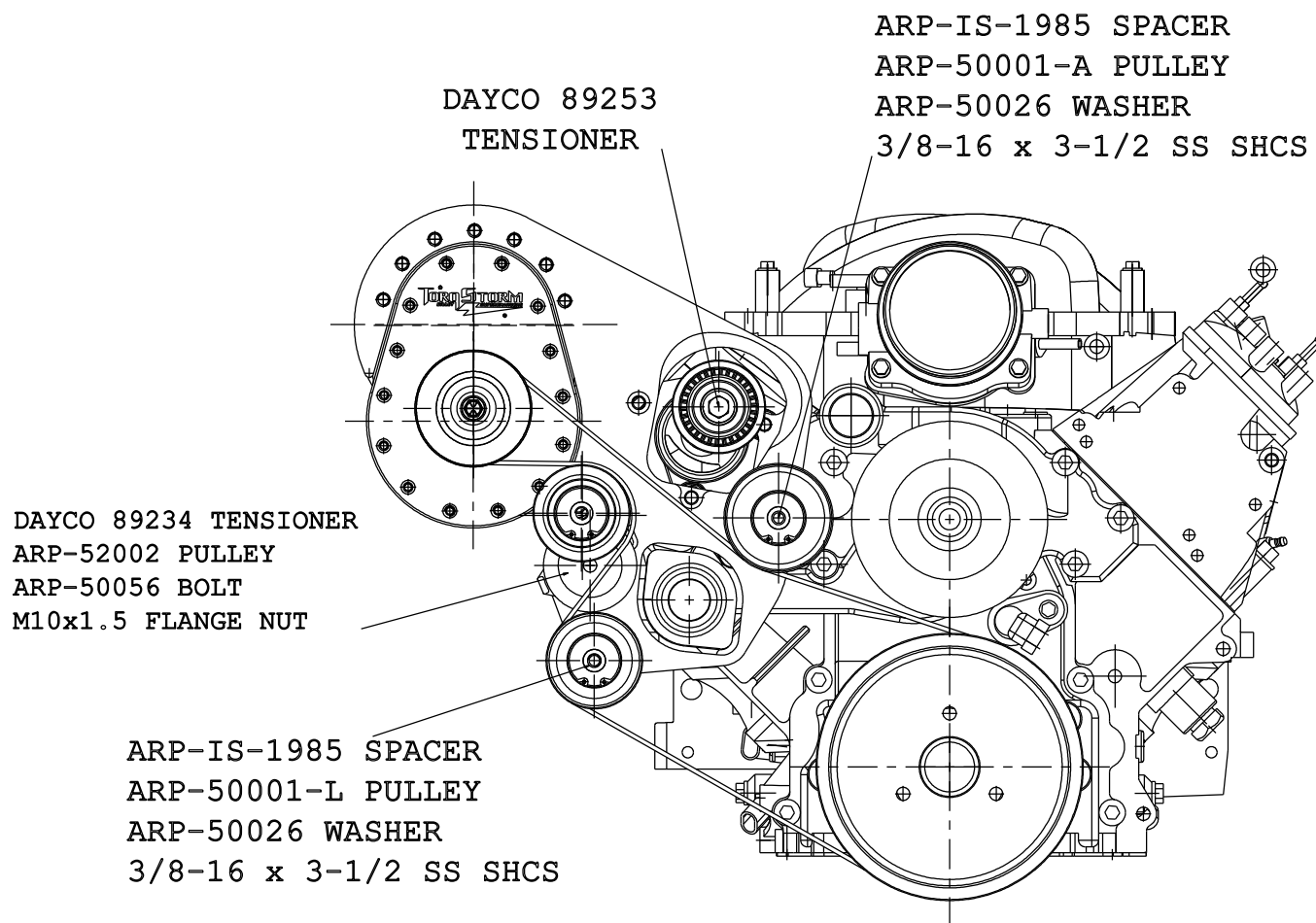
- C = 7 @ 3/8-16 x 1-1/4 SS SHCS
D = 2 @ M10 x 1.5 x 120mm SS SHCS
E = 2 @ M10 x 1.5 x 80mm SS SHCS

SPACERS

- D = 2 @ ARP-1.0 x 3700
E = 2 @ ARP-.75 x 0150
E = BEHIND MAIN BRACKET BUT IN FRONT OF TENSIONER

Description	SUPERCHARGER BRACKET LAYOUT
Part #	ARP-K-GM-LS1003-LS1007-LS1014
	

BELT ROUTING

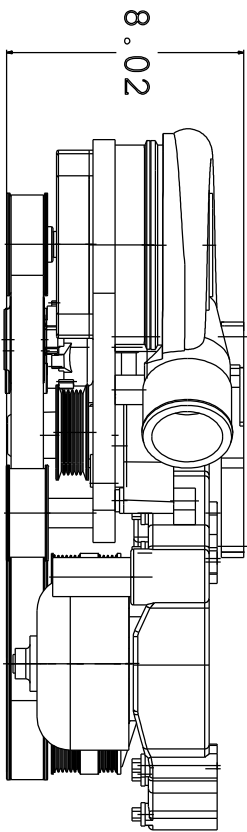
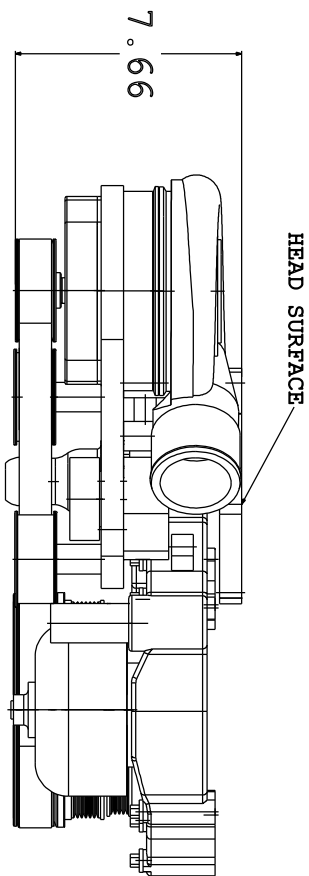


SUPERCHARGER BELT

- 3.1" PULLEY = GATES K080575
DAYCO 5080575
- 3.25" PULLEY = GATES K080575
DAYCO 5080575
- 3.50" PULLEY = GATES K080575
DAYCO 5080575
- 4.0" PULLEY = GATES K080585
DAYCO 5080585

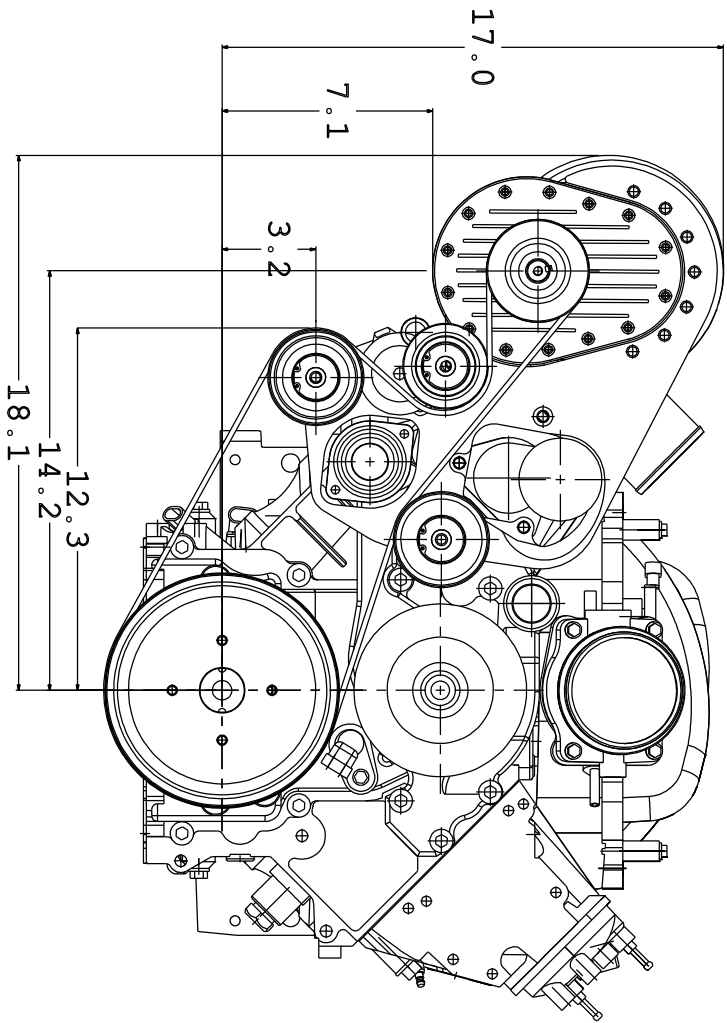
Description	
BELT ROUTING	
Part #	
ARP-K-GM-LS1003-LS1007-LS1014	

KIT DIMENSIONS



LS1 SPACING

TRUCK SPACING

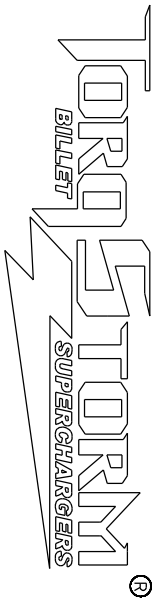


Drawn to scale

KIT DIMENSIONS

Part 4

ARP-K-GM-LS1002-LS1003-LS1007-LS1014



Oil Change Instructions



OIL CHANGE MUST BE PERFORMED EVERY 10,000 MILES OR ONCE A YEAR, WHICHEVER COMES FIRST.

FAILURE TO DO SO WILL VOID YOUR WARRANTY.

YOU CAN PURCHASE OIL

FROM US DIRECTLY AT

TORQSTORM.COM

PART # ARP-OIL-MTL

STEP 1

Remove your supercharger from your car and flip over to backside to access the drain plug.

STEP 2

Remove drain plug with a 1/4" allen and drain oil.



STEP 3

*Pour in your Torqstorm specific oil,
6oz into the same hole you drained
from.*



STEP 4

*Replace the drain plug.
Torque to 15 ft lbs*



STEP 5

*Re-install the supercharger on your vehicle.
Take note of the mileage on your odometer.*

In many cases your vehicle is exposed to harsh weather and road debris. Regular maintenance is important in order for your mechanical pieces to function properly. BOV inspection every oil change interval.

STEP 1

You can leave the body of the BOV attached to your plumbing as long as your able to remove the lid from your BOV. Remove the lid, counter clockwise, there is a strong spring beneath it.



STEP 2

Remove the spring and brass piston. Clean and inspect the piston and spring for any abnormal wear or defects.



STEP 3

Using Silicone paste apply a modest amount inside the body of the BOV.

STEP 4

Install the brass piston into the body of the BOV, checking to make sure it goes in and out smoothly.

STEP 5

Install the spring into the piston, making sure it is seated flat in the “Cup”



STEP 6

Install the BOV cap. Make sure the spring is seated properly. Be careful not to cross thread it. A little wd-40 on the threads will help it to assemble easier.



STEP 7

Attach your vacuum line and check operation.



Accelerated Racing Products, LLC

Billet Supercharger Limited 1-Year Warranty

Accelerated Racing Products, LLC ("we," "our" or "us") warrants only to the original consumer purchaser ("you" or "your") that your new Billet Supercharger head unit (referred to herein as your "supercharger") shall be free of defects in workmanship and materials for 1 year, from the date of purchase. This Limited 1-Year Warranty (this "Limited Warranty") does not extend to any subsequent owner or other transferee of your supercharger and shall terminate upon any transfer of your supercharger. This Limited Warranty is effective for superchargers purchased on or after 1/01/2023.

Our authorization must be obtained before you return the supercharger for warranty inspection. Superchargers that we authorize to be inspected must be shipped freight prepaid, at your expense. Additional warranty procedures are set forth below.

Subject to the other limitations set forth in this Limited Warranty, we will, in our sole discretion, either repair or replace the supercharger or portion thereof subject to warranty free of charge. No refunds or credits will be allowed.

Superchargers will not qualify for warranty if (i) the supercharger pulley or impeller has been removed or changed, (ii) the pulley or impeller warranty seal has been broken or tampered with and/or (iii) the kit parts have been altered or improperly installed.

Further, this Limited Warranty does not cover any defects or damage due to: (i) transportation; (ii) storage; (iii) improper installation or use; (iii) failure to follow the product instructions; (iv) alterations or modifications without our prior written consent; (v) use of a component or accessory not approved by us; (vi) unauthorized repair; (vii) normal wear and tear; or (viii) external causes such as accidents, abuse, misuse or other actions or events beyond our reasonable control.

Superchargers that we repair or replace will be returned to you with ground transportation charges prepaid by us, within the continental United States, or to the point of embarkation within the continental United States, via UPS ground (or similar) service. You will be responsible for any charges associated with expedited delivery or freight charges outside the continental United States.

Superchargers authorized to be returned and inspected but which do not qualify for warranty, and which are not repaired at your expense, will be subject to a US\$100.00 inspection fee and returned to you, at your expense.

Warranty Procedure

Go to the website and fill out the Warranty/Repair form at: <https://torqstorm.com/warranty-repair-form/>

1. Serial number of the supercharger.
2. Description of the problem.
3. Make, Model, and Year of the vehicle.
4. Your name, shipping address (No PO Boxes allowed), and your daytime telephone number.
5. A copy of your original purchase invoice.
6. A clear picture of supercharger mounted in the vehicle.

Upon receipt of the above, if warranty service is appropriate, an Accelerated Racing Products Return Authorization Number will be assigned. You should then send the supercharger or other defective part, with all of the above information to:

Accelerated Racing Products LLC
2909 Buchanan Ave SW
Wyoming, MI 49548

The return authorization number must be included on the package. Freight collect shipments will be refused and returned to the sender at the sender's expense.

Disclaimers

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

WE HEREBY LIMIT THE DURATION AND REMEDIES OF ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO ONE YEAR.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

OUR RESPONSIBILITY FOR DEFECTIVE SUPERCHARGERS IS LIMITED TO REPAIR OR REPLACEMENT AS DESCRIBED ABOVE IN THIS LIMITED WARRANTY.

Limitation of Liability

THE REMEDIES DESCRIBED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES AND OUR ENTIRE LIABILITY FOR ANY BREACH OF THIS LIMITED WARRANTY. OUR LIABILITY SHALL UNDER NO CIRCUMSTANCES EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE DEFECTIVE SUPERCHARGER, NOR SHALL WE UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT (INCLUDING, WITHOUT LIMITATION, ENGINE DAMAGE).

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.