

ARP-K-GM-GTO

04-06 PONTIAC GTO

INSTALLATION GUIDE



QUALITY AMERICAN MADE SUPERCHARGERS



Installation Instructions

2004-2006 Pontiac GTO

ARP-K-GM-GTO



STEP 1

Disconnect battery.

Unplug MAF sensor and remove factory airbox or CAI.

Remove engine covers and radiator cover.



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ARP-K-GM-GTO



STEP 2

Remove accessory belt.

Unplug fan harness and remove electric fans. This will help gain access to the crank balancer for further steps of the install.

Remove the power steering pump and bracket from the drivers side head. Also remove the factory p.s. feed line. These will no longer be used.



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STEP 3

*Install bracket ARP-GM10075 onto drivers side head using
(2) M10X1.5X30MM SS SHCS. **Torque to 27 ft lbs***



STEP 4

Install provided power steering line ARP-GM50039 onto rack side for now. Do not tighten yet.



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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.



STEP 6

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 7

Install the pin tool with supplied bolt.

Snug down so tool is locked in position while drilling.

STEP 8

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 9

For ATI Installation

Install the shorter pins in the kit into drilled holes.

Verify the pins are both flush or below the surface of the Bolt/Washer surface of the pulley.

Apply silicone to the keyway of the ATI.



STEP 10

Apply red loctite and install supplied bolt

Tighten to factory torque specs

GM 219 ft. lbs



STEP 11

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 12

Apply red loctite and install supplied bolt

Tighten to factory torque specs

GM 219 ft. lbs

STEP 13

*Install supercharger crank pulley to crank hub
using (4) 5/16" bolts and washers.*

Apply blue loctite

Torque to 19ft lbs



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STEP 14

For 04 models. Trim the heat shield to allow clearance for the supercharger.



STEP 15

For automatic transmission cars, cut and extend the transmission cooler lines to give more clearance for the supercharger belt. You will need to carefully bend down the top hard line to get it away from the belt. You will also need to shorten the return line for the power steering reservoir.



Installation Instructions

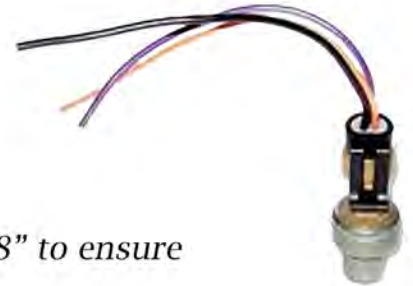
2004-2006 Pontiac GTO

ARP-K-GM-GTO



STEP 16

Locate the a/c pressure switch on the drivers side near the backside of the headlight. This plug needs to be extended approx 8" to ensure that it will not interfere with the supercharger belt.



STEP 17

Next install provided PS pump GM 92229662. Start by connecting the feed line to the bottom of the pump. Leave loose until the pump is affixed to the bracket, and then tighten.

***Refer to the layout sheet in your packet for bolt and spacer location for mounting the supercharger bracket. Set the supercharger in place before mounting the bracket.*

***** FOR 05-06 MODELS*****

Trimming and tucking of the upper radiator hose is required to allow clearance for the supercharger belt and pulleys.



STEP 18

Press on the power steering pulley.

Install accessory belt ARP-K060820 per factory routing.

*Re-install the supercharger grooved idler pulley onto the supercharger bracket. **Torque to 27ft lbs***



STEP 19

Mount Supercharger head unit ARP-TORQ-10001 with (7) 3/8 -16 x 1- 1/4 bolts and AN washers.

Torque to 27 ft lbs

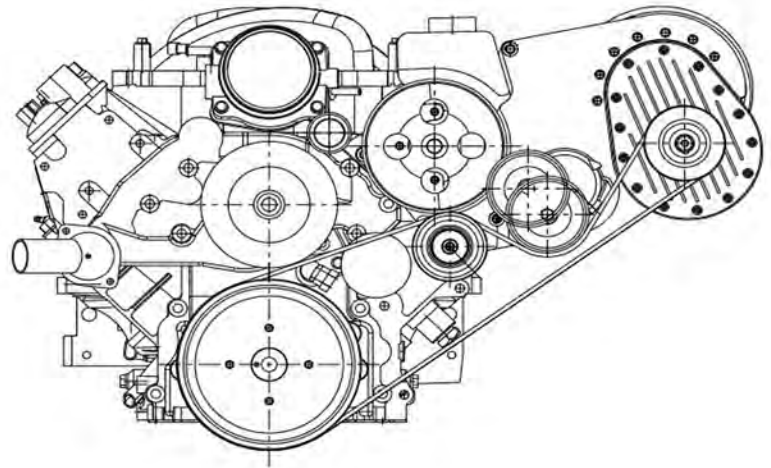
Be sure to have the v-band loosened on the compressor housing so you can rotate the outlet in your desired location. Only tighten till there is about 1/4-1/2" of threads showing and the compressor housing is not able to spin.



STEP 20

Install supercharger belt.

Use a long wrench and gently turn up clockwise to release tension on the pulley while sliding the belt on.



STEP 21

On 04 models the factory coolant expansion tank is too large to fit any plumbing for a filter. You will need to fit a smaller tank in its place. There are different options.

For our car we chose to go with an Aeroflow tank. This gave us a couple more inches behind the supercharger. And made it look a bit cleaner under the hood getting rid of the dingy factory tank.



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ARP-K-GM-GTO



STEP 22

Torque down all bolts. Now that the supercharger is installed. Time to re-install the electric fans, radiator cover, and engine covers. The engine covers will need some trimming around the new pump reservoir/ brackets. You can use 3.5" piping/couplers to route your inlet tubing how you wish.



STEP 23

Install ARP-Bov-Torq-52 BOV between the supercharger and TB. Connect to a vacuum source from of the intake with ARP-27043 7/32 vacuum line.



Additional steps

Replace all spark plugs with one or two heat ranges cooler.

Fuel/ Ignition managment system must be tuned when installing a 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.

Order direct from Torqstorm Part NO ARP-OIL-MTL

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

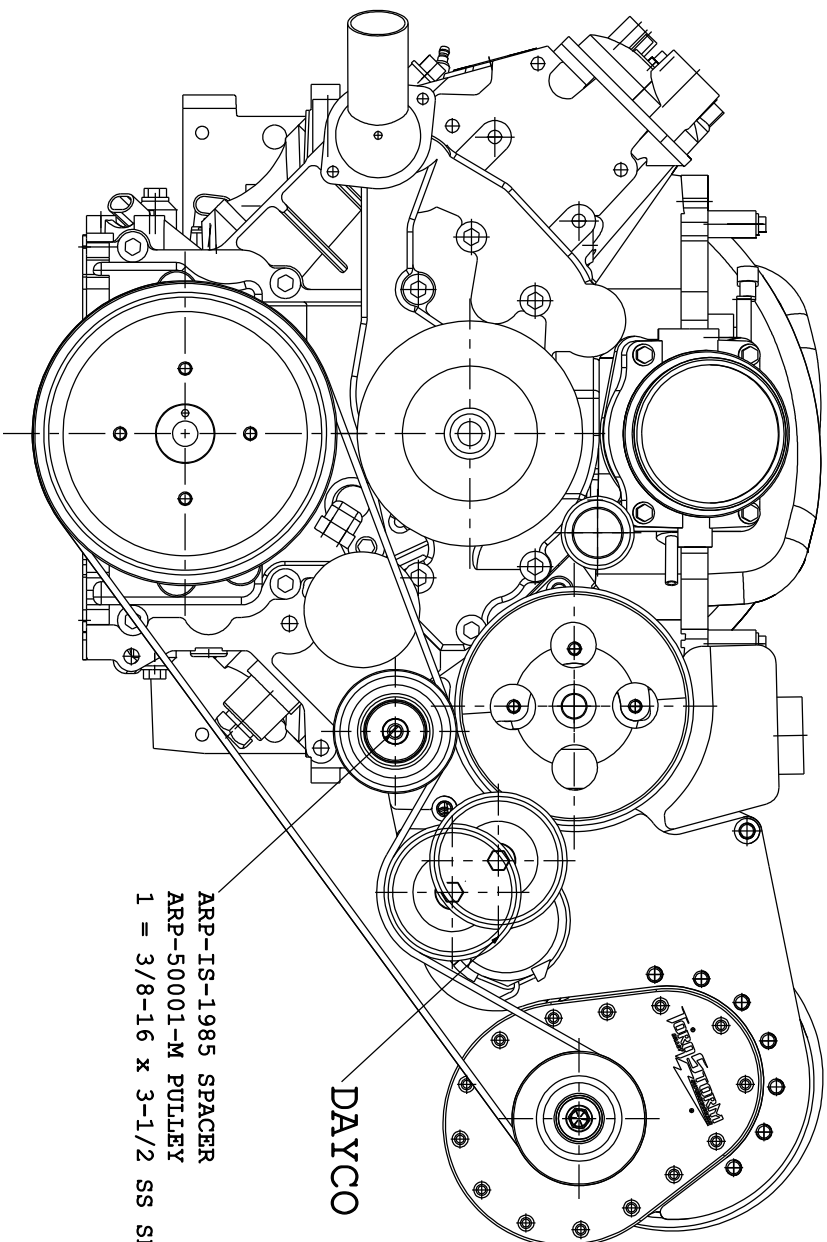
Additional information for Boost

- We recommend using the following sensors: GM12569241 map sensor and Fast 307004 AIT
- It is suggested to run a wideband o2 sensor to monitor correct air/fuel ratio. 11.6 is ideal for 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

BELT ROUTING



DAYCO 89209

ARP-1S-1985 SPACER
ARP-50001-M PULLEY
1 = 3/8-16 x 3-1/2 SS SHCS W/WASHER

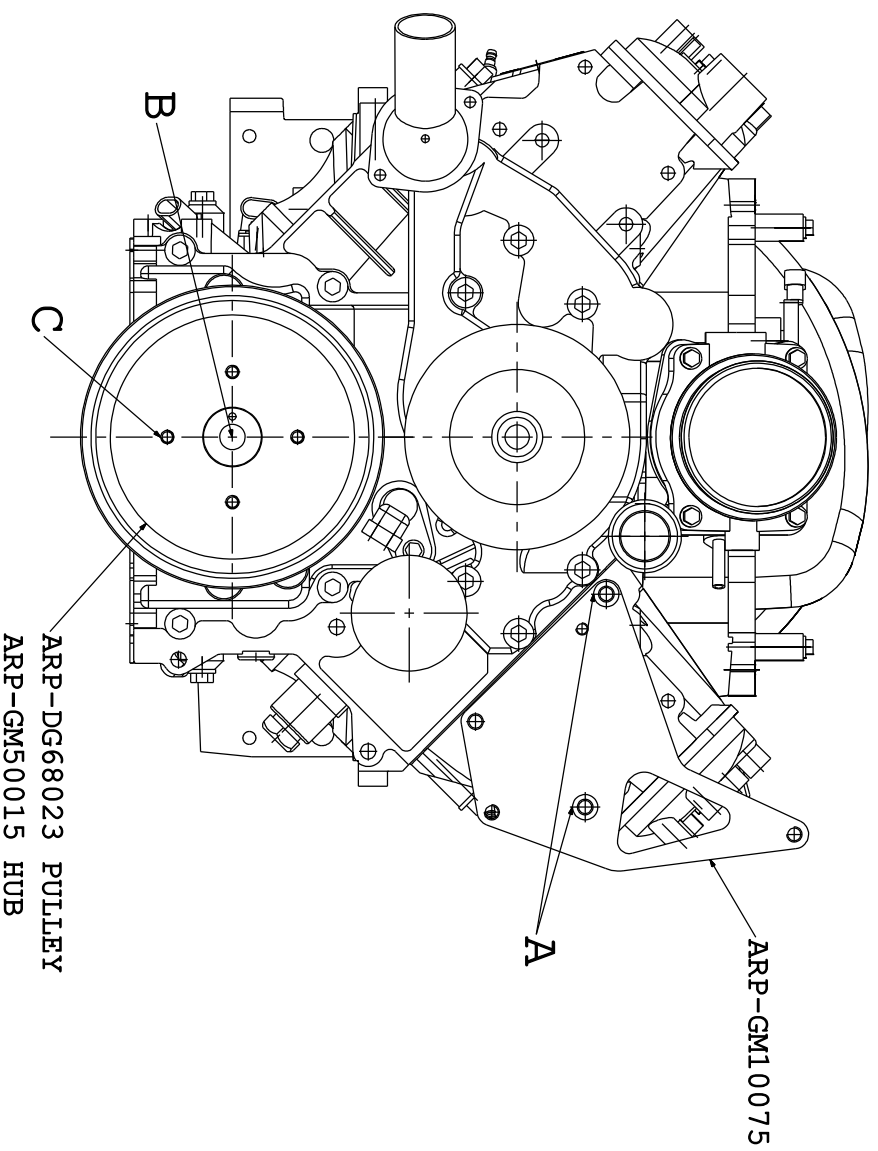
SUPERCHARGER BELT =

3.100 & 3.250 PULLEYS USE = DAYCO 5080600
GATES K080600

ACCESSORY BELT = DAYCO 5060820
GATES K060820

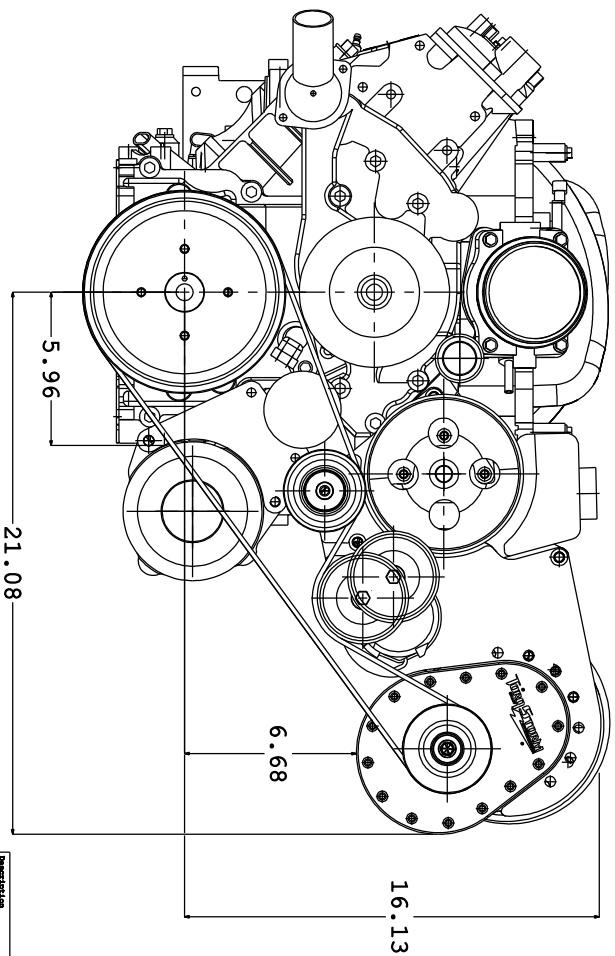
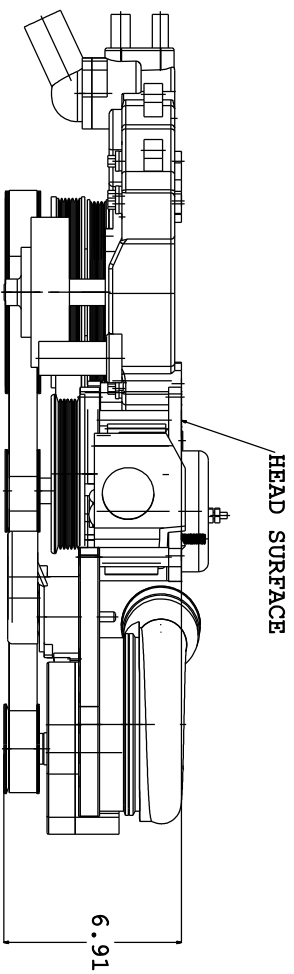
Description
BELT ROUTING
Part 1 ARP-K-GM-GTO-LS

HEAD BRACKET LAYOUT

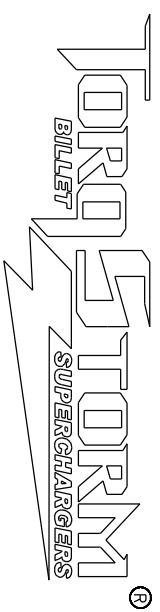


- A = 2 @ M10x1.5 X 25mm SS SHCS
- B = 1 @ M16x2.0 X 120mm HHB
- C = 4 @ 5/16-24 X 3/4 SS SHCS

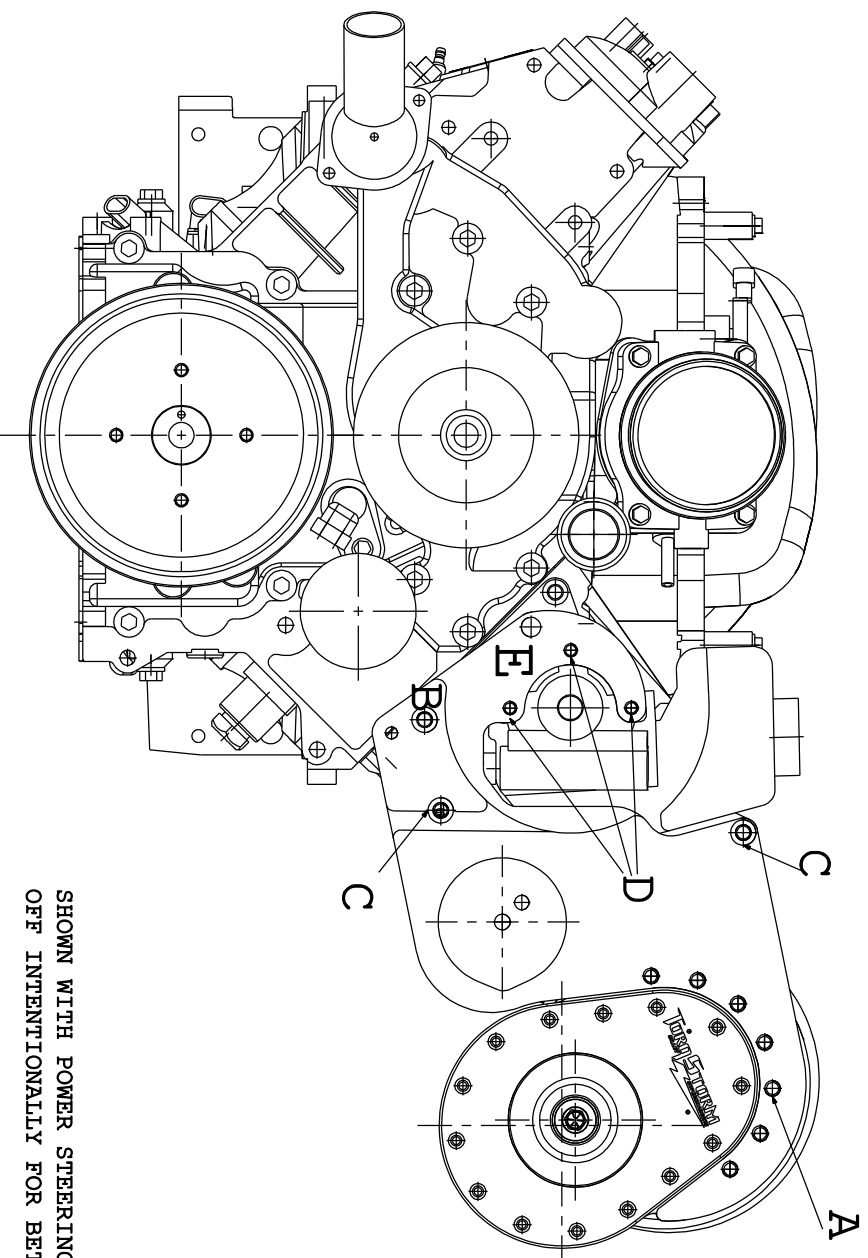
KIT DIMENSIONS



Part #
ARP-K-GM-GTO-LS



SUPERCHARGER BRACKET LAYOUT



SHOWN WITH POWER STEERING PULLEY
OFF INTENTIONALLY FOR BETTER VIEW

- A = 7 @ 3/8-16 x 1-1/4 SS SHCS
- B = 1 @ M10x1.5 x 110mm SS SHCS
- B = 1 @ ARP-S-75-2750 SPACER
- C = 2 @ M10x1.5 x 90mm SS SHCS
- C = 2 @ ARP-S-75-2750 SPACER
- D = 3 @ M8x1.25 x 30mm SS SHCS
- D = 3 @ ARP-S-75-0350 SPACER
- E = 1 @ ARP-S-75-2750 SPACER
- E = 1 @ M8x1.25 x 90mm SS SHCS

Description
SUPERCHARGER BRACKET LAYOUT
Part #
ARP-K-GM-GTO-LS

**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.