

ARP-K-FD-FE

FORD 390-428 FE

INSTALLATION GUIDE



QUALITY AMERICAN MADE SUPERCHARGERS



Installation Instructions

FE 390-428 Supercharger kit

ARP-K-FD-FE



STEP 1

Disconnect battery.

Install supercharger plate

ARP-GM10067 on passenger side head.

A (2) 3/8-16 x 1 1/4" and B (1) 7/16-14

x 1 1/2" bolts. A .615" spacer goes

between the head and hole B.

Tighten to 29 ft lbs

NOTE:

The plumbing is designed to work with

a swivel thermostat housing. Such as

this one from Scott drake. Part number

B-F434 for 64-73 390-428cu.



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STEP 2

Install crank pulley ARP-FD68028 using (3) 3/8 -16 x 1" bolts and an washers.

Tighten to 29 ft. lbs



Installation Instructions

FE 390-428 Supercharger kit

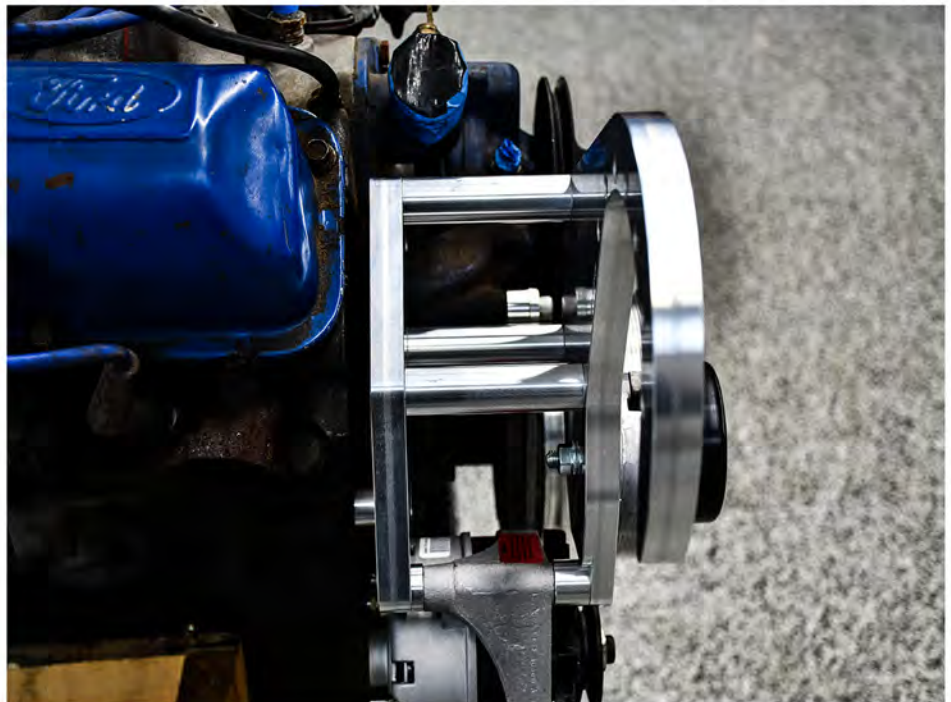
ARP-K-FD-FE



STEP 3

Install supercharger bracket using (3) 3/8-16 x 5" bolts. The lower bolt will go through the alternator in the next step. The top 3 bolts will use (3) 3.860" spacers.

Do not tighten yet.



Installation Instructions

FE 390-428 Supercharger kit

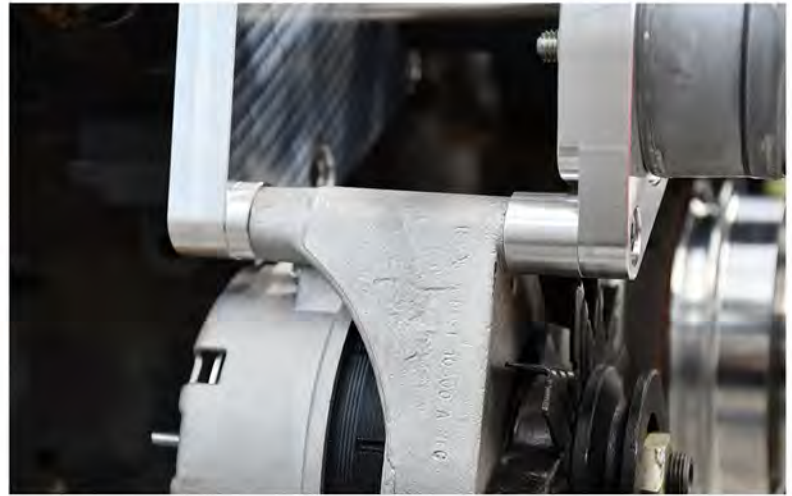
ARP-K-FD-FE



STEP 4

Install alternator with (1) 3/8-16 x 5" bolt and spacer .800" between supercharger bracket and front of alternator. And .280" between the back of alternator and head plate.

Do not tighten yet



STEP 5

Install alternator "J" bracket. Bolt to waterpump with (1) 3/8-16 x 1.5" bolt and .615" spacer. Position the bracket before tightening down. (29 ft. lbs)

Install 3/8-16 x 1 1/4" bolt through the bracket into the alternator. Install belt and pull alternator to get proper belt tension.

Tighten both alternator bolts to 29 ft. lbs



Installation Instructions

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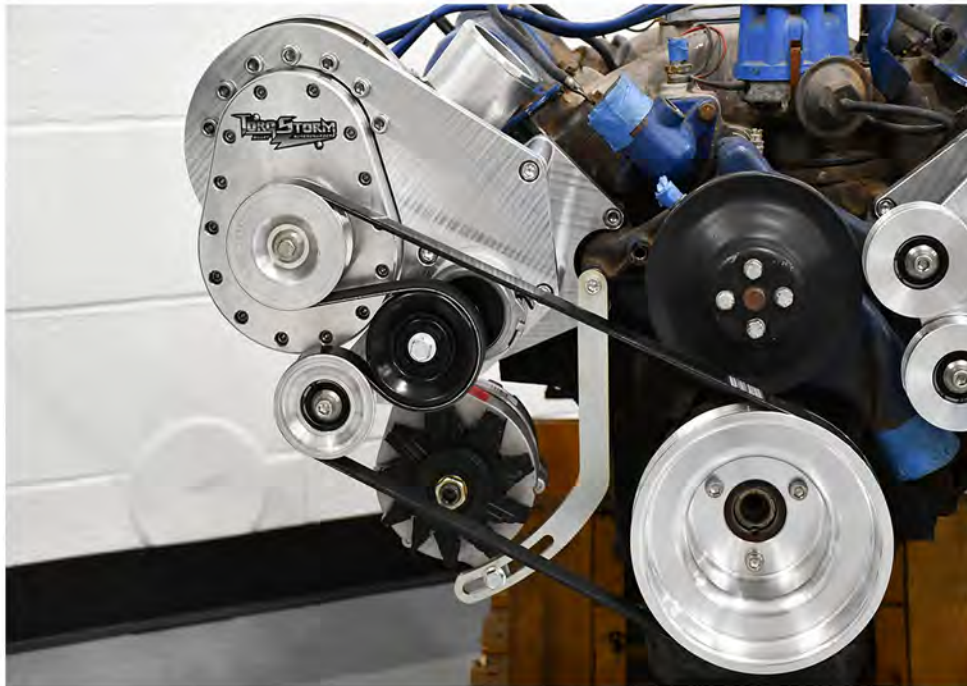
STEP 6

Install the supercharger head unit using

(7) 3/8 x 16 x 1.25"
Tighten to 29 ft. lbs.

STEP 7

Install the supercharger belt



Installation Instructions

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STEP 8

Install supercharger air filter.



STEP 9

Install carb hat and charge tube.

The couplers are purposely long to accomodate a variety of

configurations, so trimming may be required.

Loosen the v-band clamp to rotate the compressor housing. When finished. Do not overtighten. 1/8-1/4" of thread showing. Just so the housing is not able to move.

STEP 10



Install Blow off valve and connect to vacuum source using provided 7/32 vacuum hose.

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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, headers, or supercharger components.*
- *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.*

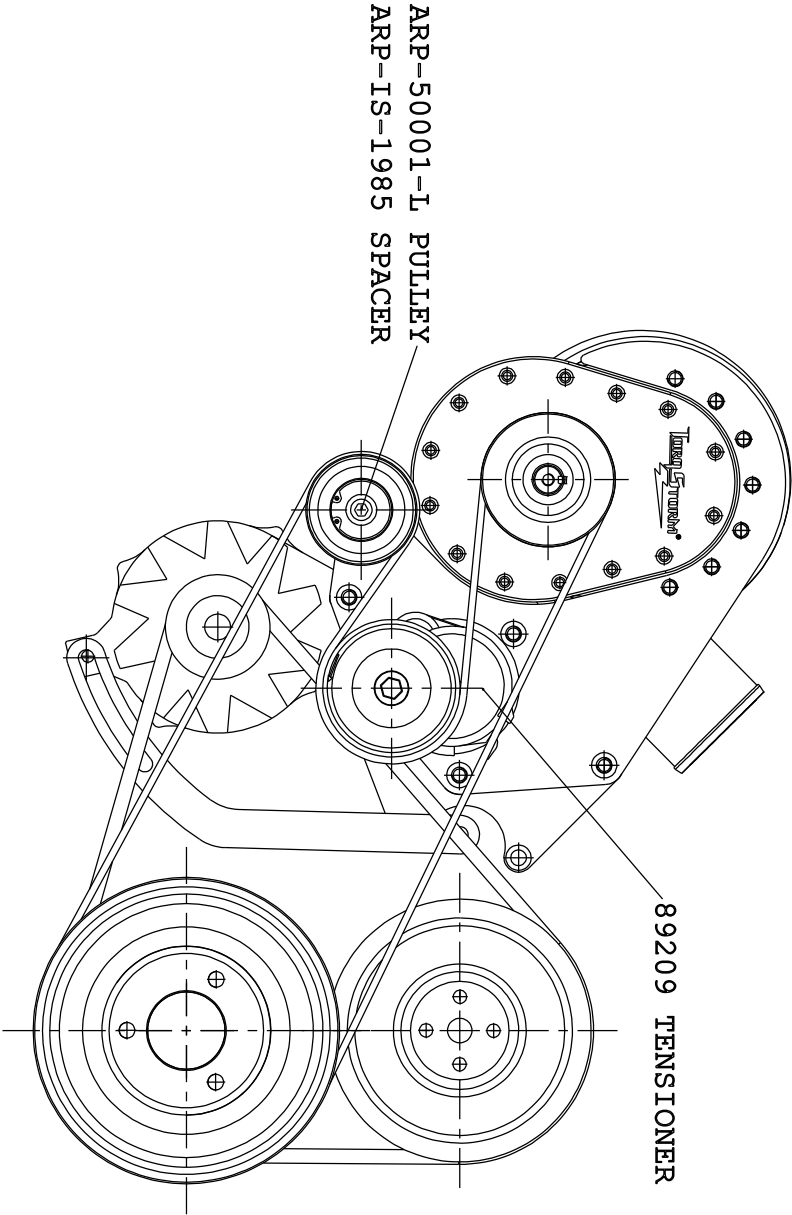
Order direct from Torqstorm Part NO ARP-OIL-MTL

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

Additional information for Boost

- 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*

BELT ROUTING DIAGRAM



3.100⁰⁰ PULLEY = PIN⁰⁰ B⁰⁰ DAYCO = 5080670
GATES = K080670

3-1/4⁰⁰ PULLEY = PIN⁰⁰ B⁰⁰ DAYCO = 5080670
GATES = K080670

3-1/2⁰⁰ PULLEY = PIN⁰⁰ A⁰⁰ DAYCO = 5080670
GATES = K080670

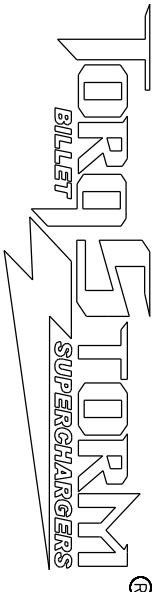
4.00⁰⁰ PULLEY = PIN⁰⁰ A⁰⁰ DAYCO = 5080685
GATES = K080685

Description

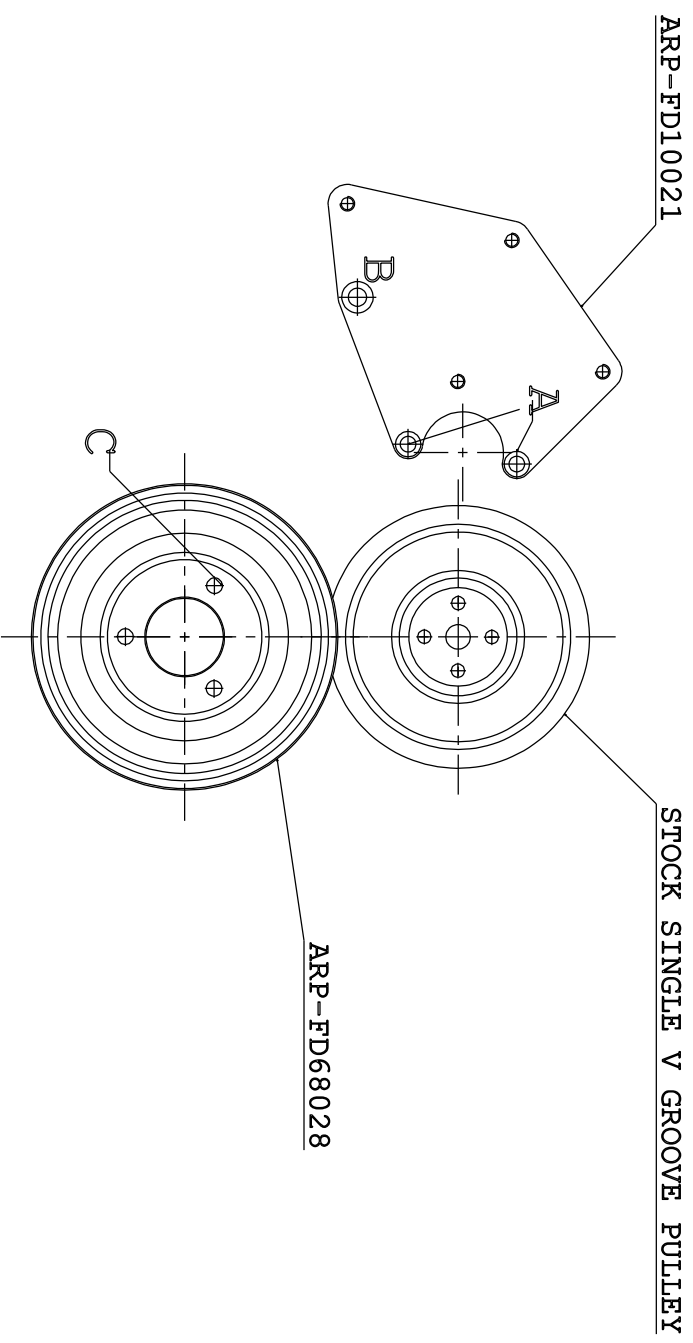
BELT ROUTING DIAGRAM

Part 1

ARP-K-FD-FE



HEAD BRACKET LAYOUT



A =	2 @ 3/8-16 x 1-1/4	SS SHCS
B =	1 @ 7/16-14 x 1-1/2	SS SHCS
B =	1 @ ARP-S-150-0615	SPACER
C =	3 @ 3/8-16 x 1.0	SS SHCS

Identification

Part 1

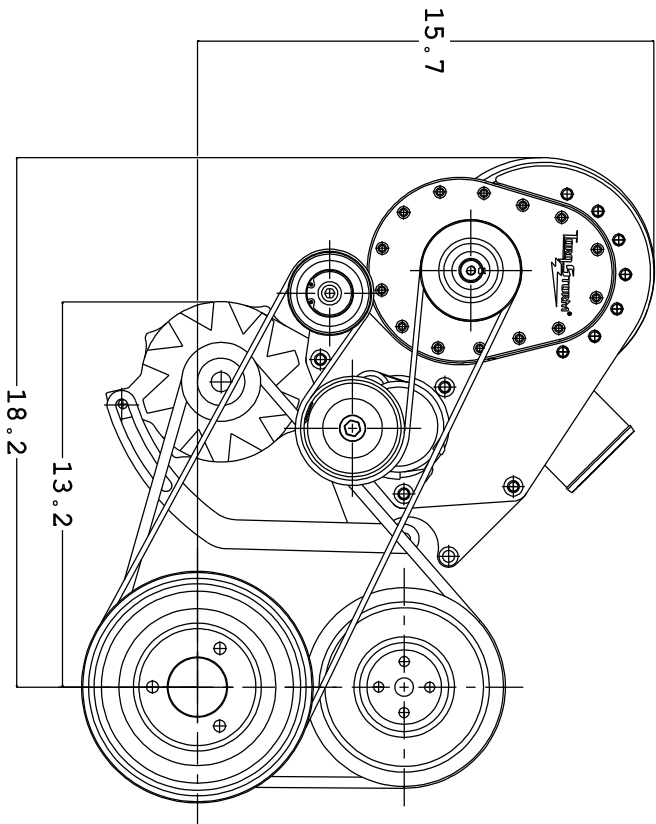
HEAD BRACKET LAYOUT

ARP-K-FD-FE

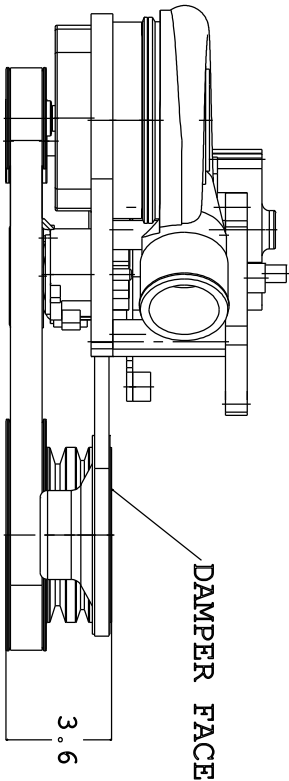
TORO STORM[®]
BILLET SUPERCHARGERS

DIMENSIONS

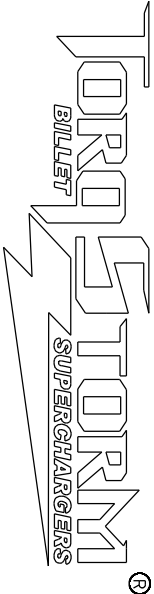
FRONT VIEW



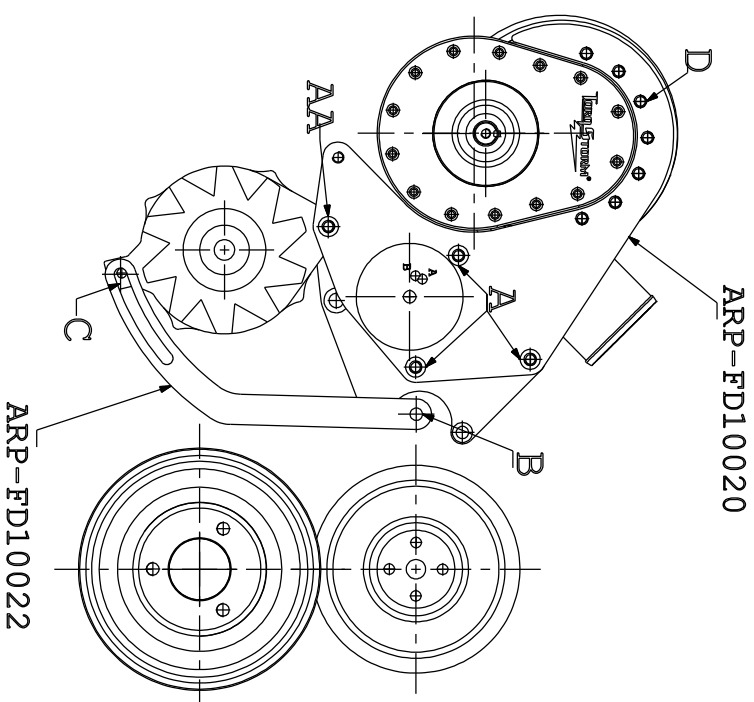
TOP VIEW



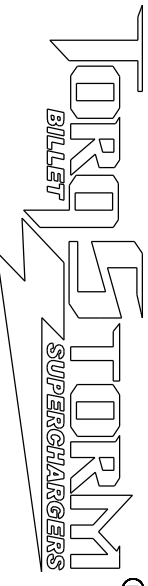
Dimension	
KIT DIMENSIONS	
Part #	
ARP-K-FD-FE	



SUPERCHARGER BRACKET LAYOUT



- A = 3 @ 3/8-16 x 5.0 SS SHCS
- AA = 1 @ 3/8-16 x 5.0 SS SHCS
- A = 3 @ ARP-S-100-3860 SPACER
- AA = 1 @ ARP-S-100-0280 SPACER (IN FRONT OF BACK BRACKET BUT BEHIND ALT)
- AA = 1 @ ARP-S-100-0800 SPACER (IN FRONT OF ALT BUT BEHIND FRONT BRACKET)
- B = 1 @ 3/8-16 x 1-1/2 SS SHCS
- B = 1 @ ARP-S-100-0615 SPACER (BEHIND ARM)
- C = 1 @ 3/8-16 x 1.0 SS HEX FLANGE BOLT
- D = 7 @ 3/8-16 x 1-1/4 SS SHCS

Description
SUPERCHARGER BRACKET LAYOUT
Part 1 ARP-K-FD-FE


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.