

ARP-K-GM-G8

V8 08-09 G8 / 11-13 CAPRICE

INSTALLATION GUIDE



QUALITY AMERICAN MADE SUPERCHARGERS



Installation Instructions
2008-09 Pontiac G8 GT/GXP
2011-13 Chevrolet Caprice 6.0
ARP-K-GM-G8



STEP 1

Disconnect battery.

Unplug MAF sensor and remove factory airbox or CAI.



Installation Instructions

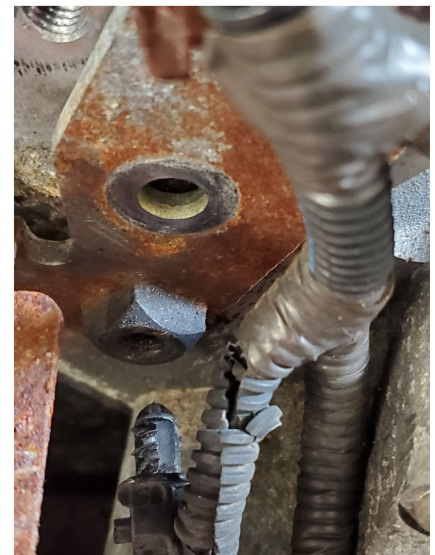
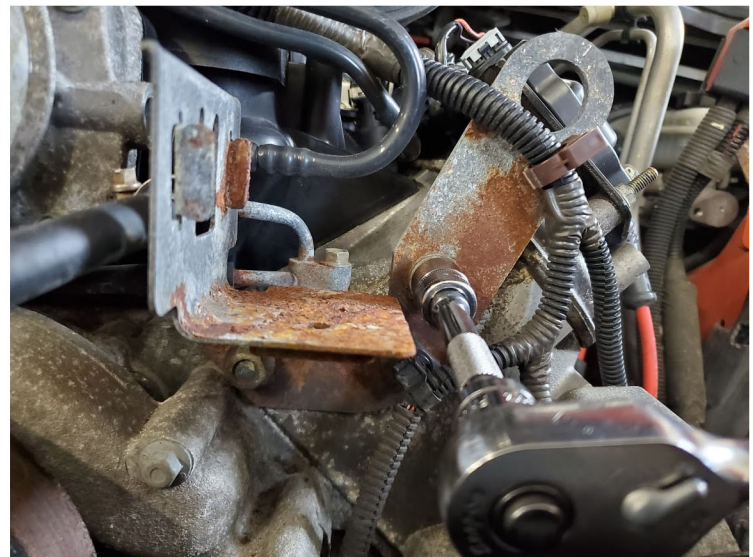
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STEP 2

Remove the factory power steering reservoir bracket.

(2) M10 bolts with a 15mm socket



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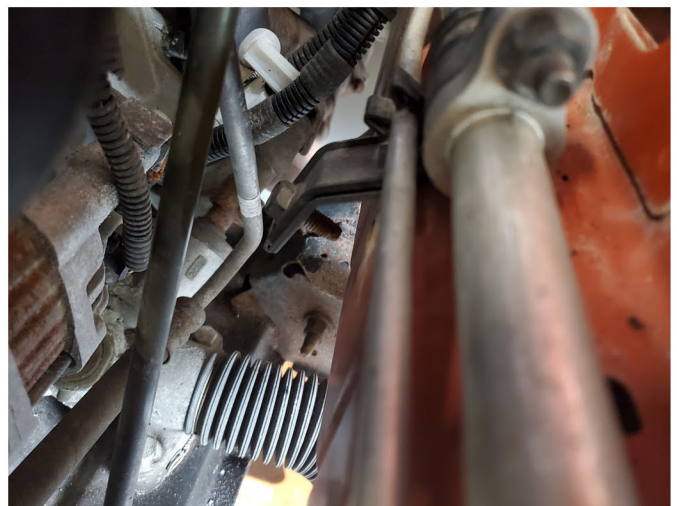
STEP 3

Remove the bolt that mounts the ac line on the drivers side frame rail. This is to allow the line to set down a little further to fit the supercharger.



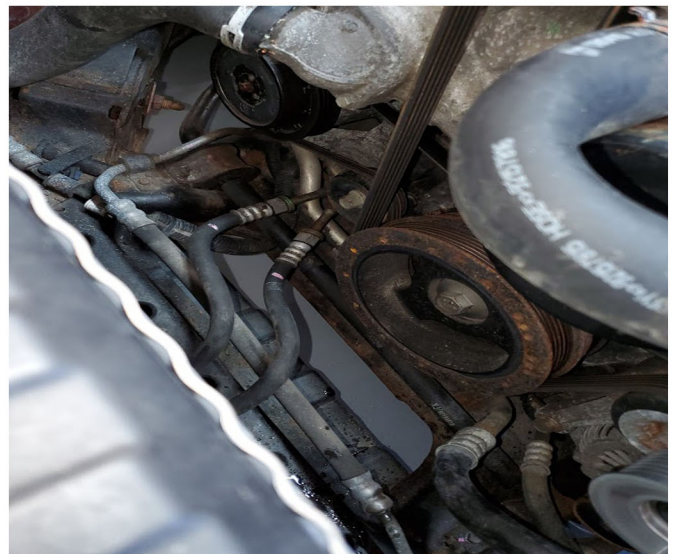
STEP 4

Drain the coolant and remove upper radiator hose from the radiator



STEP 5

Unplug and remove the electric fans



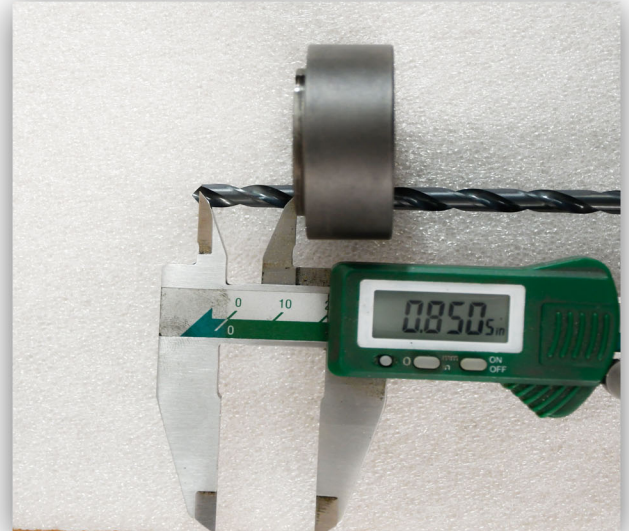
Installation Instructions

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STEP 6

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 7

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 8

Same process for ATI and stock balancer

Install the pin tool with supplied bolt.

Snug down so tool is locked in position while drilling.

STEP 9

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

Clean shavings from area.



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STEP 10

For ATI Installation

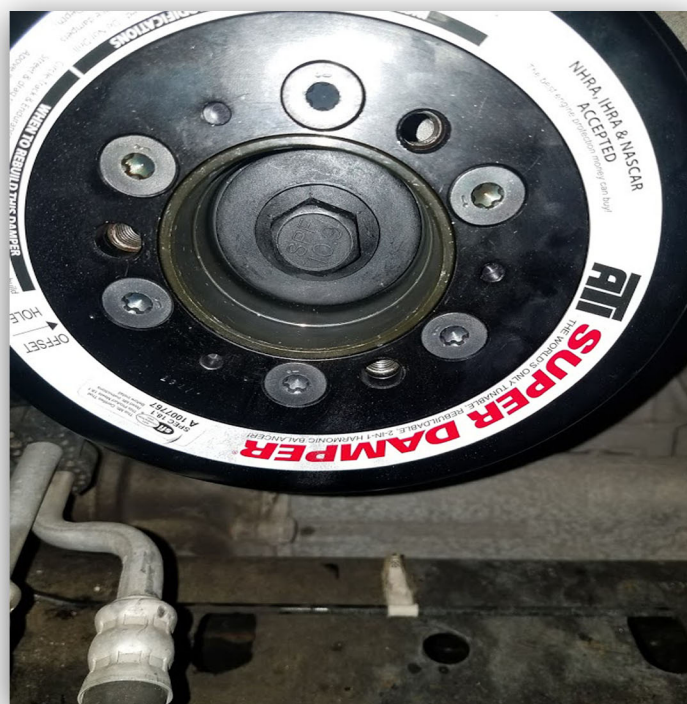
Install pins the shorter supplied pins into drilled holes. Verify the pins are both flush or below the surface of the Bolt/Washer surface of the pulley.



STEP 11

Apply red loctite and install supplied bolt
Tighten to factory torque specs

GM 219 ft. lbs



Installation Instructions
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STEP 12

For stock balancer and hub.

Insert the supplied longer pins into the 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 13

Apply red loctite and install supplied bolt

Tighten to factory torque specs

GM 219 ft. lbs



STEP 14

Install supercharger crank pulley with (4) 5/16 bolts and washers.

Torque to 19 ft lbs



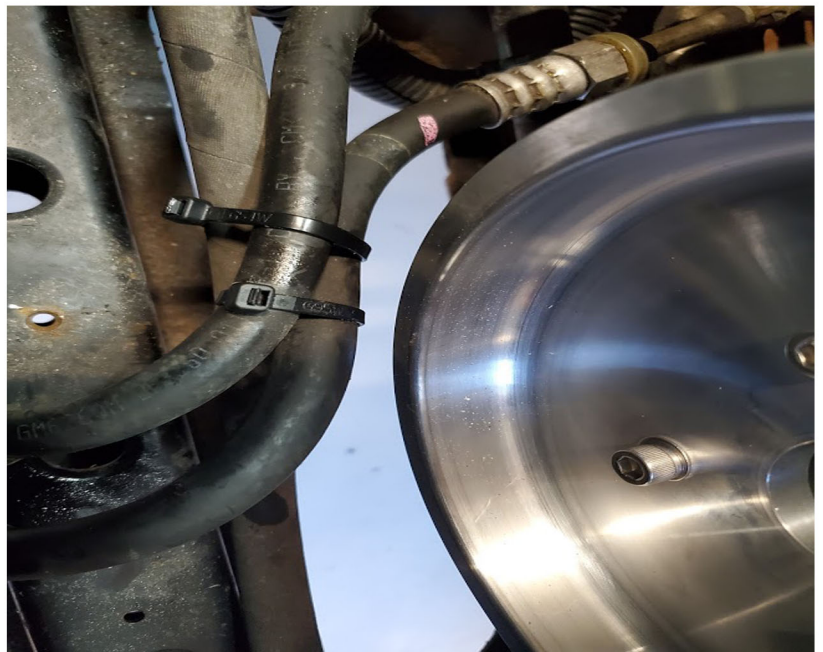
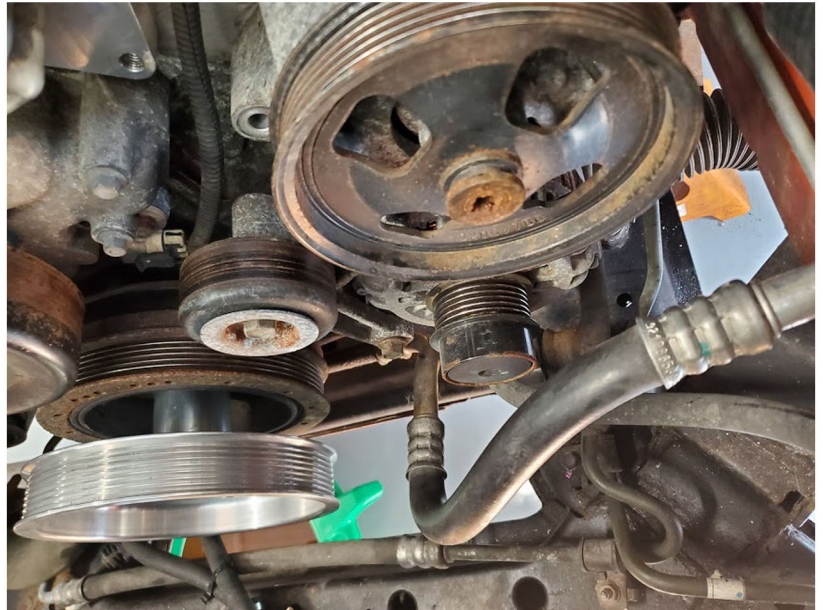
Installation Instructions

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STEP 15

After installing the supercharger hub and pulley use zip ties to secure the transmission cooler and ac lines away from the pulley and belt drive area.



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STEP 16

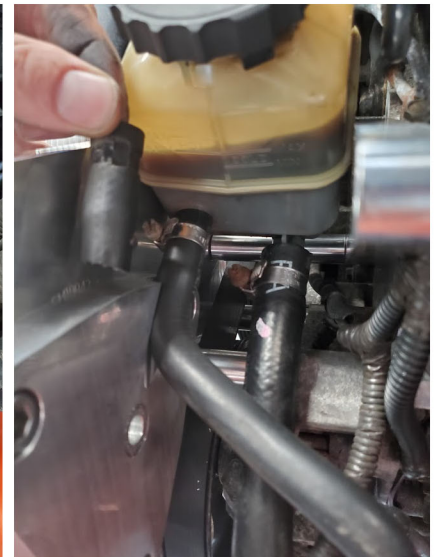
Install the supercharger head plate using (1) M10 x 25mm bolt. Insert a bolt through the other through hole as pictured to help keep the bracket aligned when you torque it down.

Torque the M10 x 25mm bolt to 29 ft. lbs



STEP 17

Tilt the power steering reservoir back and remove the low pressure side hose. Cut 1 3/4" off the end, re insert and tighten down.



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STEP 18

Install the supercharger bracket. View the layout sheet in the packet for spacer/ bolt placement.

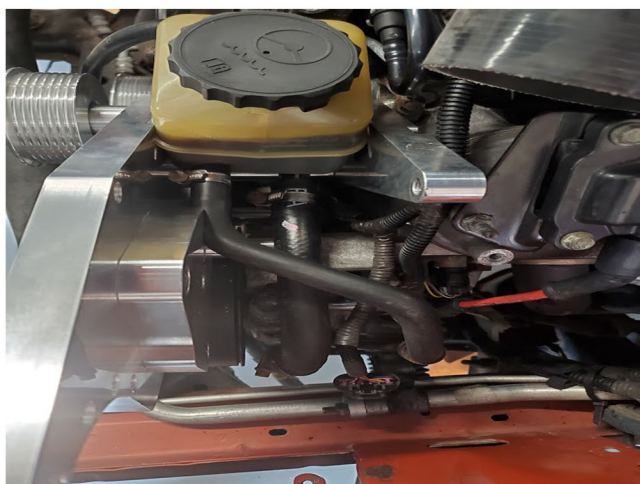
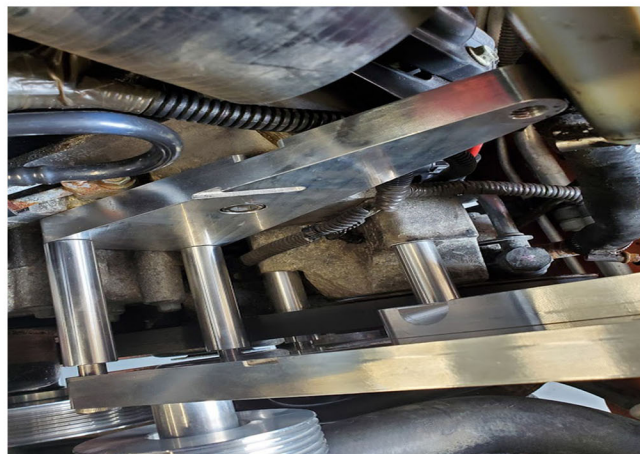
Before installing the top spacer and bolt, insert the reservoir in the notches in the bracket.

Then install the top spacer and bolt.

The idler and tensioner will need to be temporarily removed to access two of the mounting bolts. Two of these will go through the power steering bracket.

Torque mounting bolts to 29 ft. lbs.

Re install the idler and tensioner as well and tighten them both down to 29 ft. lbs



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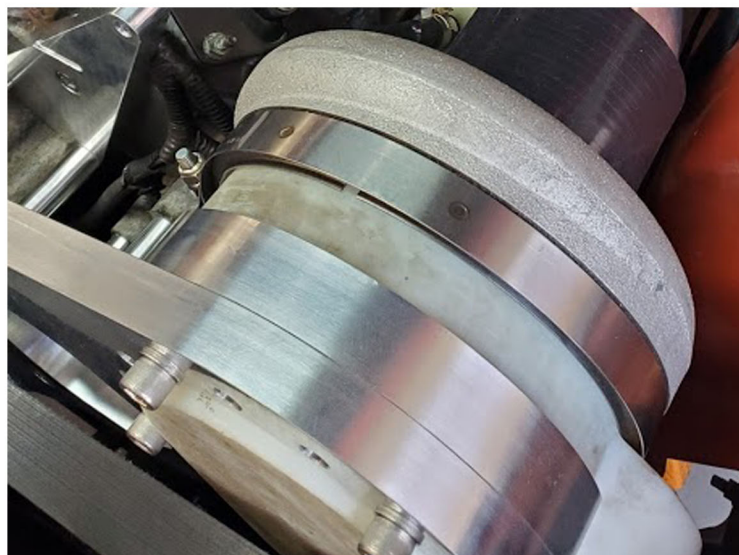


STEP 19

Install the supercharger onto the bracket, there is a 1" spacer that will go between the supercharger and the bracket. Use (7) 3/8 x 2.25" bolts and AN washers to mount.

Be sure the compressor scroll clamp is loose and the compressor outlet is rotated below the supercharger as pictured.

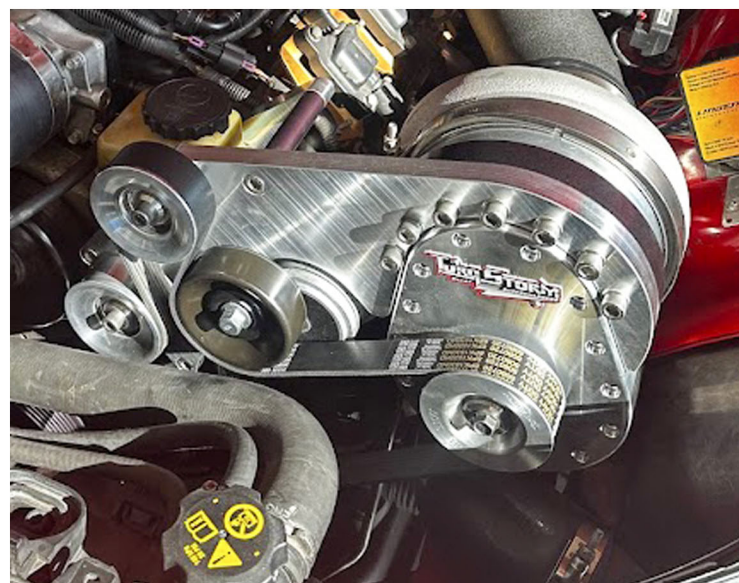
Torque to 29 ft. lbs



STEP 20

Install the supercharger belt as shown. Slide the belt over the crank pulley and supercharger pulley. Then under the smooth idler pulley, over the ribbed pulley.

Loosen tension on the tensioner with a long 15mm wrench. Slide the belt under the pulley.



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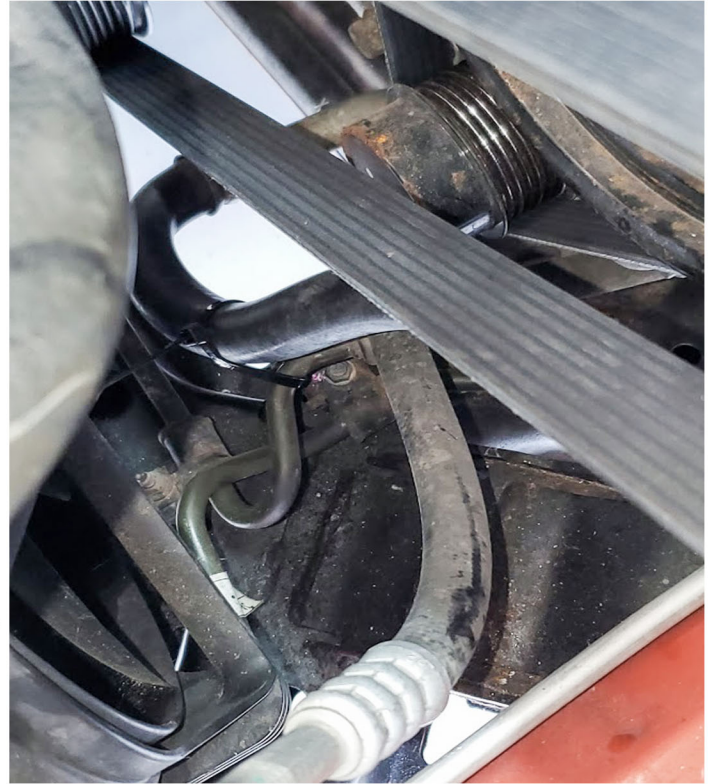
STEP 21

Notice some belt interference with the ac line.

This is important to tuck this line away so there is no rubbing of the belt.

Carefully and gently bend the hard part of the line down, while having someone support the line above. Tie the line down to the power steering hard line as pictured.

While the supercharger is under a load the belt will have some deflection, allow atleast a 1-1.5" clearance between the lines and belt.



Installation Instructions

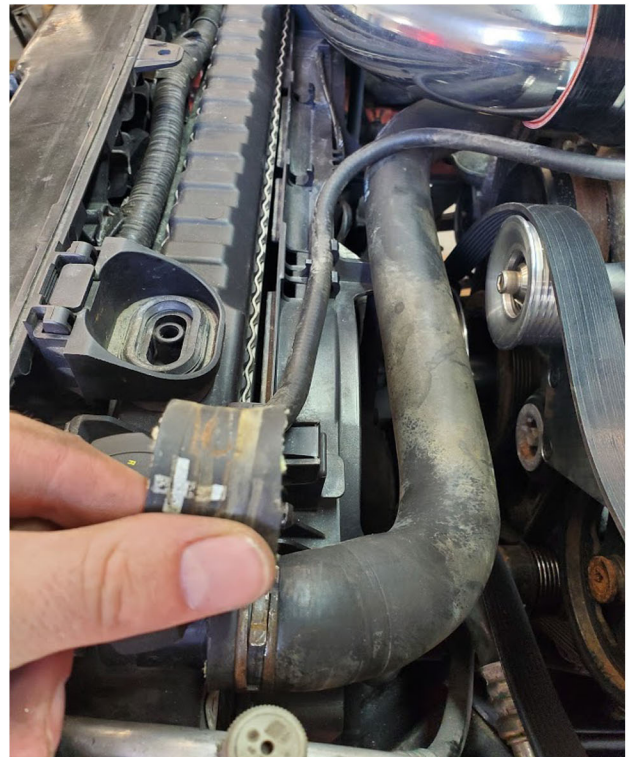
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STEP 22

Re-install

Trim approx 1" from the radiator side of your upper radiator hose. Then re install on the radiator using the factory clamp.



STEP 23

Install the supercharger filter and tube as shown. Trimming will be required to the aluminum tube for your ideal fitment. Install the supplied 3.5" t-bolt clamps.



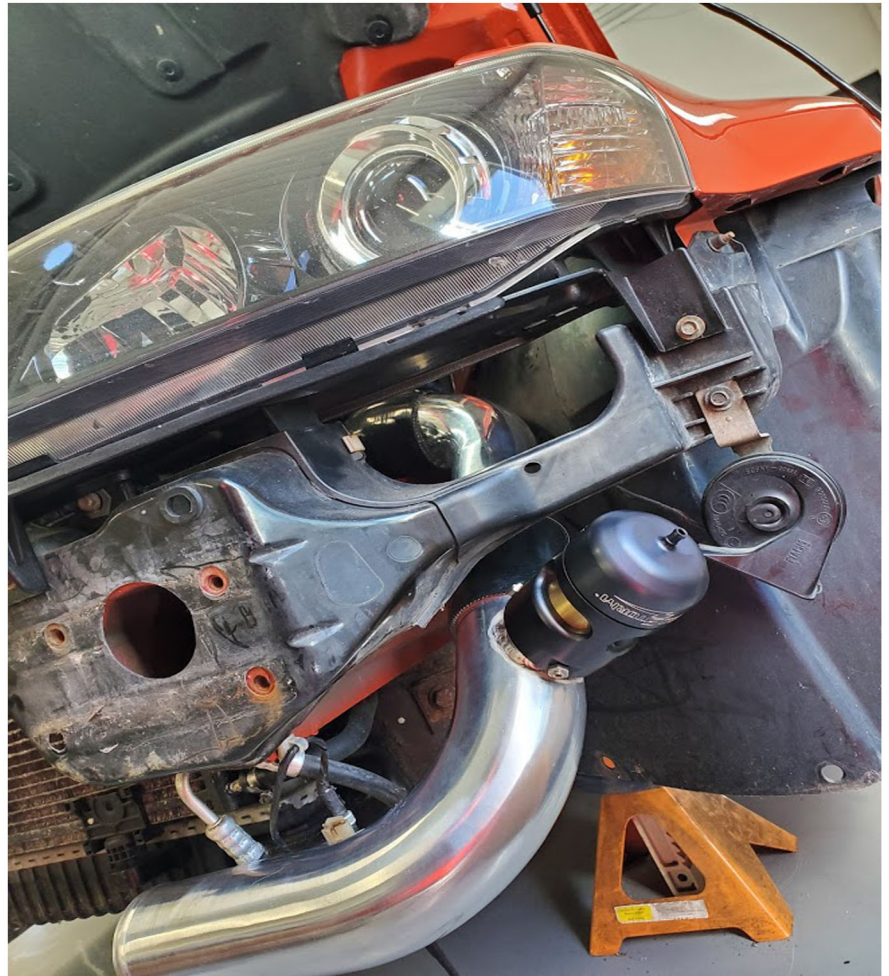
Installation Instructions

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STEP 24

Install ARP-Bov-Torq-52 BOV between the supercharger and TB. Closer to the supercharger the better. Connect to a vacuum source from of the intake with ARP-27043 7/32 vacuum line. A vacuum t in line with the brake booster works well.



Installation Instructions

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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.

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.

Installation Instructions
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Additional information for Boost

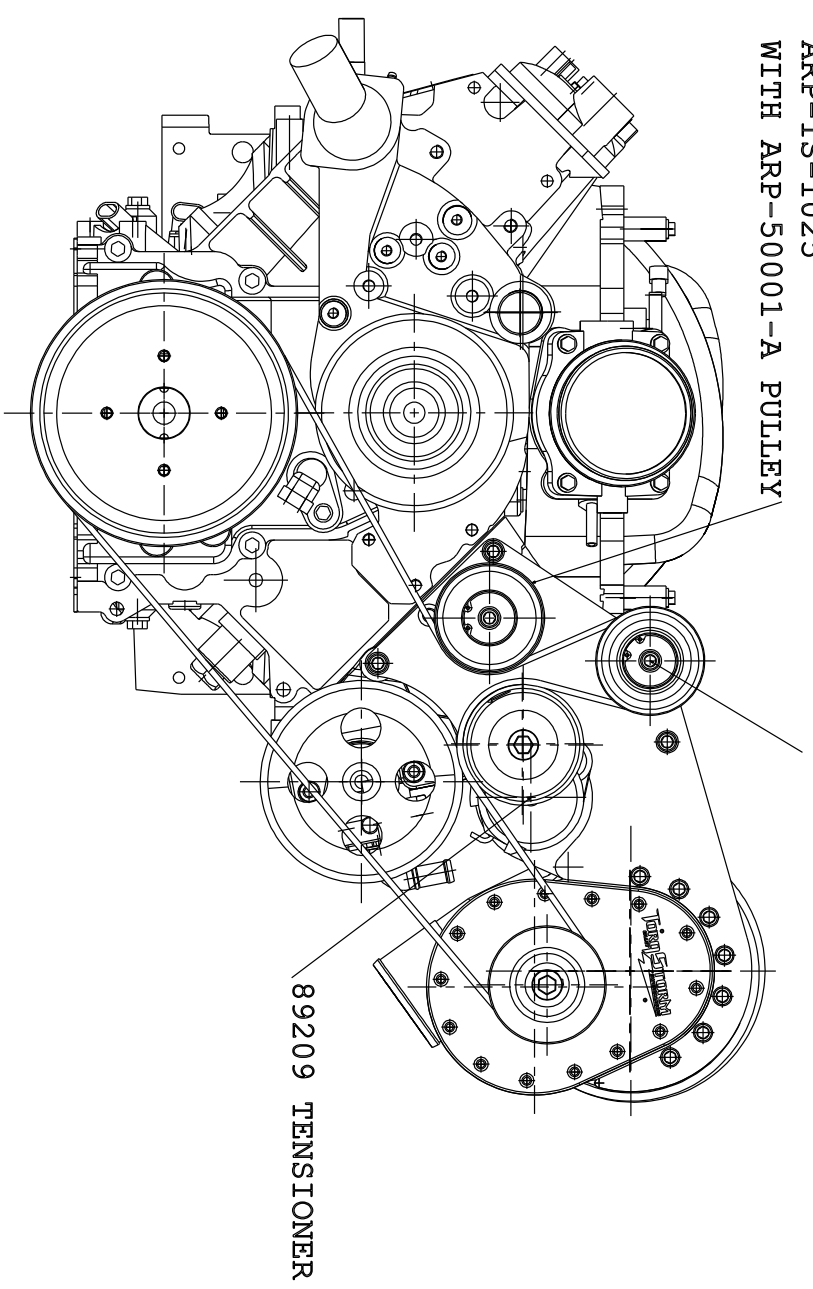
- It is suggested to run a wideband o2 sensor to monitor correct air/fuel ratio. 11.5 is ideal for 91 octane or higher pump gas.
- *PLEASE TAKE SPECIAL NOTE: Operating the vehicle without all the sub assemblies completed and properly installed and working may cause FAILURE OF MAJOR ENGINE COMPONENTS.*
- 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

BELT ROUTING

ARP-IS-1025
WITH ARP-50001-A PULLEY

ARP-IS-1025
WITH ARP-50001-M PULLEY



3.100 & 3.250 PULLEYS USE

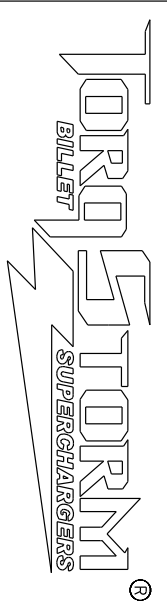
SUPERCHARGER BELT

GATES = K080720

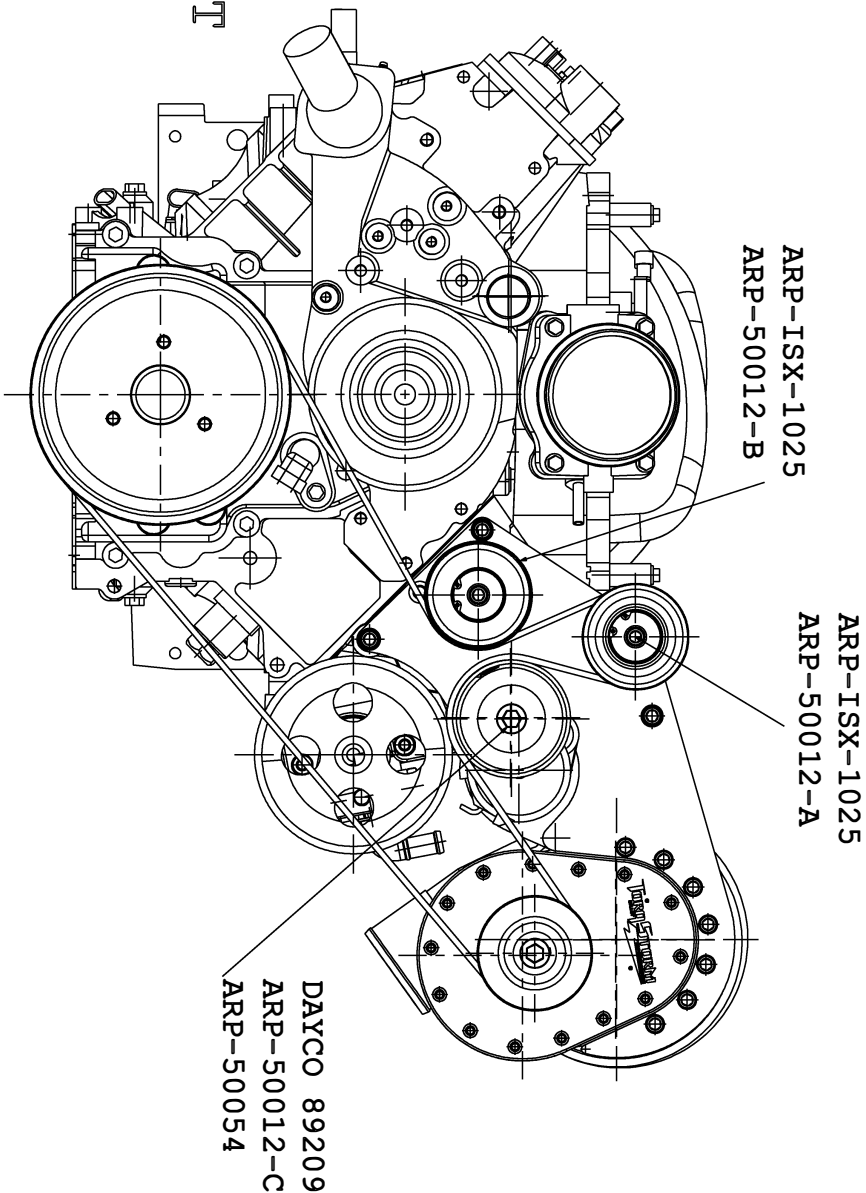
DAYCO = 5080720

23/08/2019

Description	
BELT ROUTING	
Part #	ARP-K-GM-G8



BELT ROUTING



SUPERCHARGER BELT

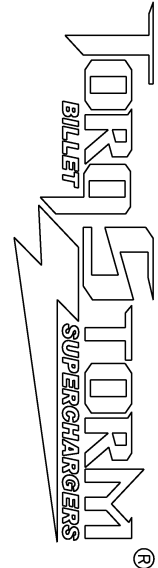
THE FOLLOWING PULLEYS

USE DAYCO 5120720

GATES K120720

- 3.1⁰⁰ PULLEY USE PIN ⁰⁰A⁰⁰
- 3-1/4⁰⁰ PULLEY USES PIN ⁰⁰B⁰⁰
- 3-1/2⁰⁰ PULLEY USES PIN ⁰⁰B⁰⁰
- 3-3/4⁰⁰ PULLEY USES PIN ⁰⁰B⁰⁰
- 4.0⁰⁰ PULLEY USES PIN ⁰⁰C⁰⁰
- 4-1/4⁰⁰ PULLEY USES PIN ⁰⁰C⁰⁰
- 4-1/2⁰⁰ PULLEY USES PIN ⁰⁰D⁰⁰
- 4-3/4⁰⁰ PULLEY USES PIN ⁰⁰D⁰⁰
- 5.0⁰⁰ PULLEY USES PIN ⁰⁰C⁰⁰ WITH DAYCO 5120738
GATES K120738

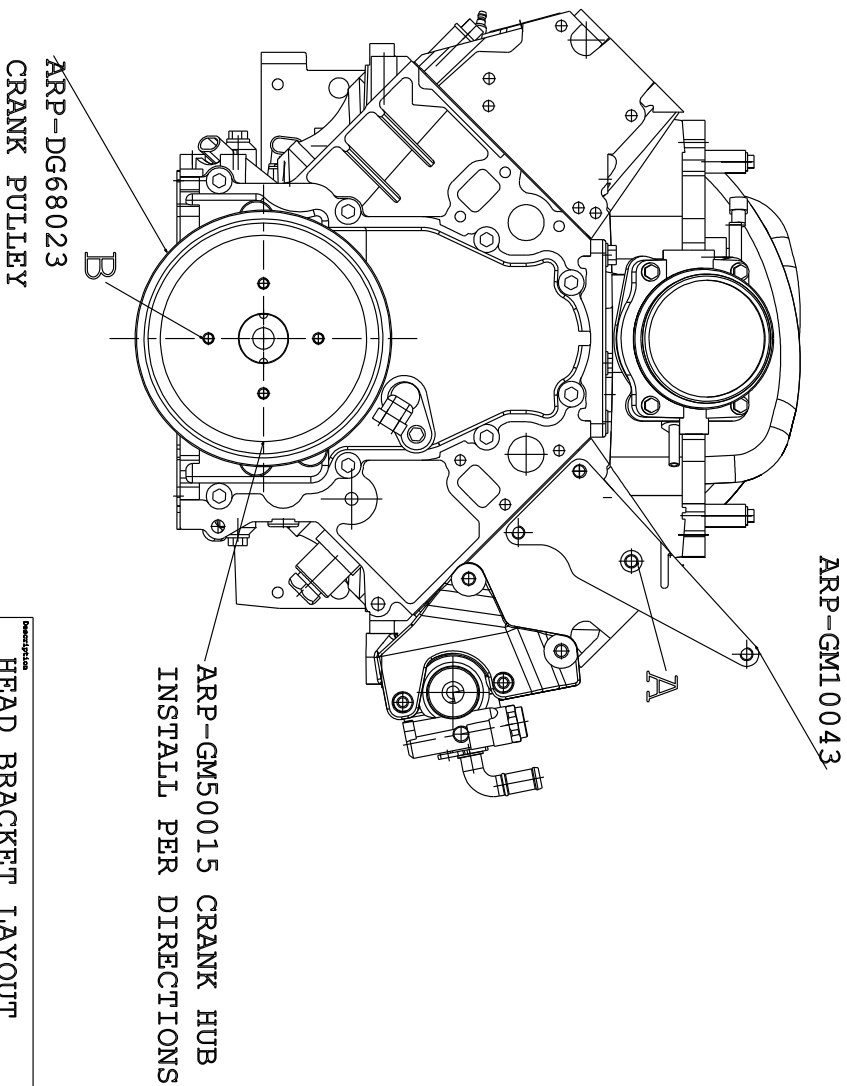
Manufactured by
BELT ROUTING
Part #
ARP-K-GM-G8-ATI-R12



TORCO STORM[®]
BILLET
SUPERCHARGERS

HEAD BRACKET LAYOUT

ATI OPTION:
ATI-918854
CRANK PULLEY
ARP-GM68065



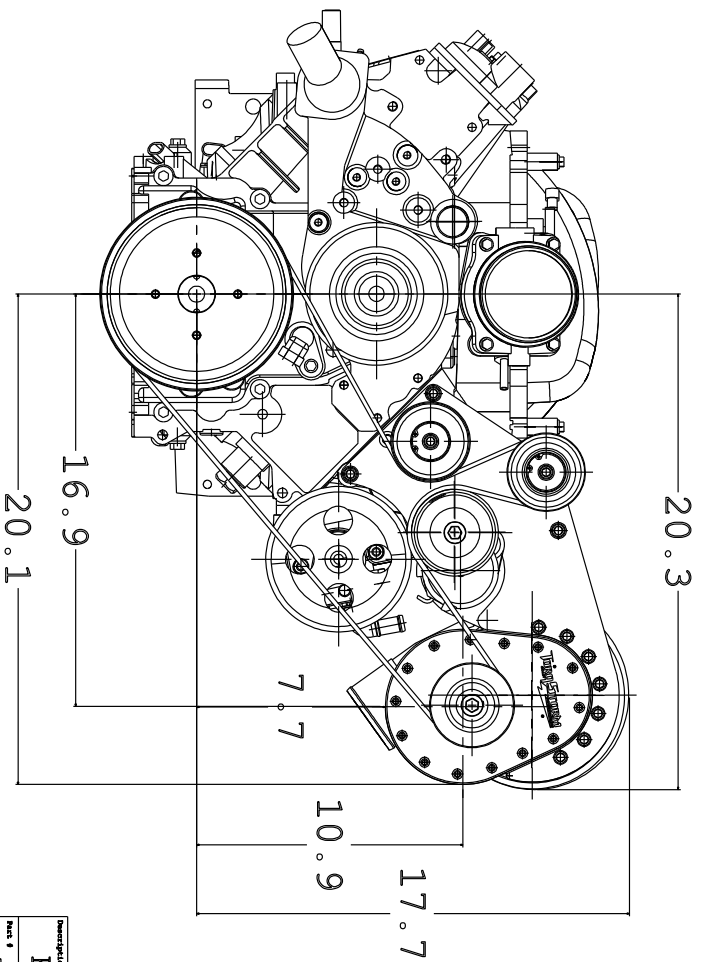
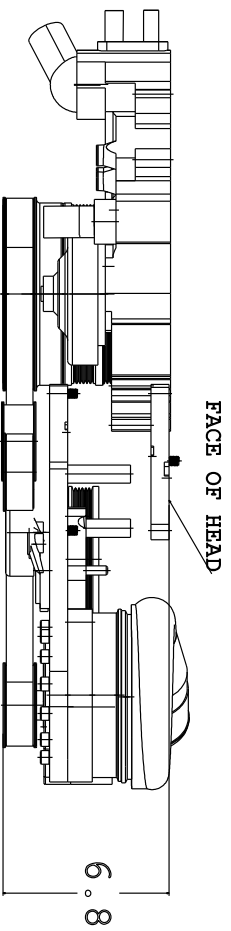
A = 1 @ M10x1.5 X 25mm SS SHCS
B = 4 @ 5/16-24 X 3/4 SS SHCS

23/08/2019

Manufactured
HEAD BRACKET LAYOUT

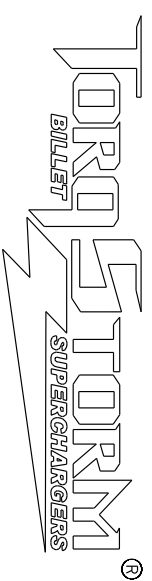
Part #
ARP-K-GM-G8

KIT DIMENSIONS

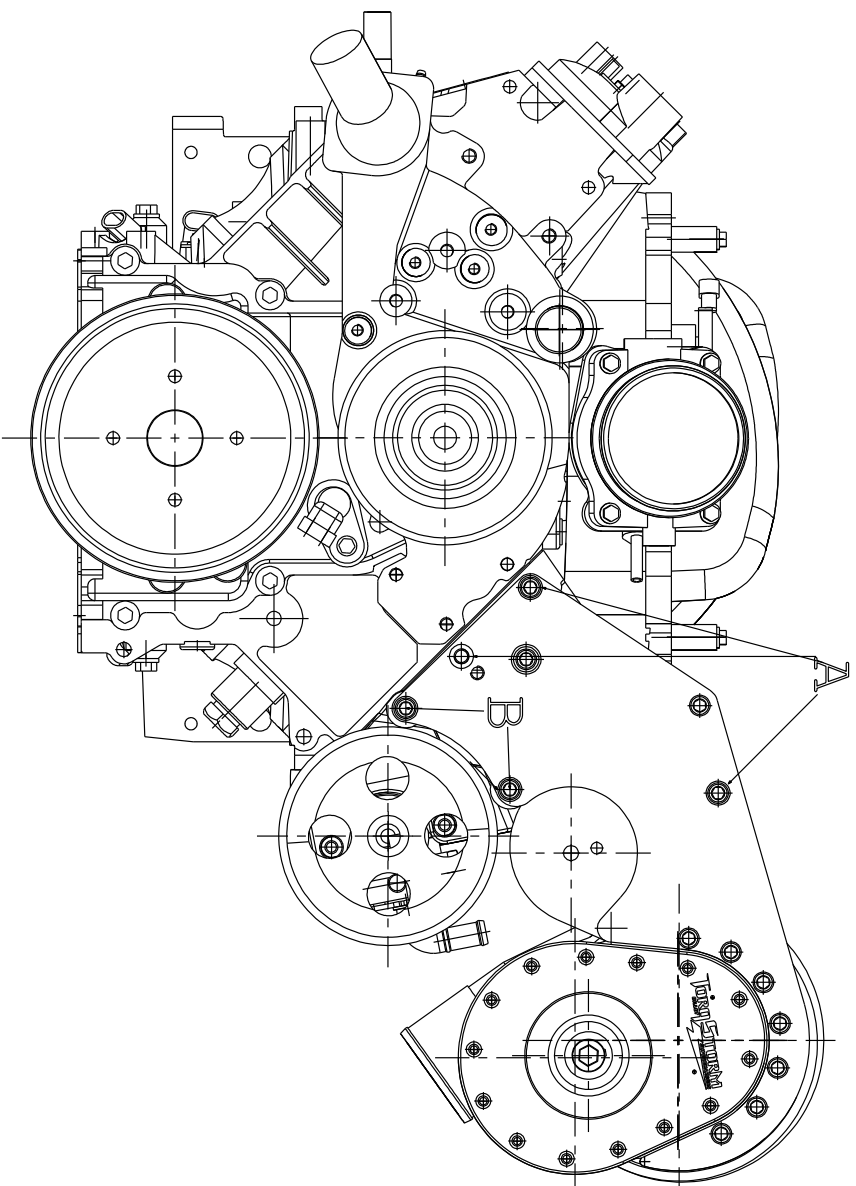


Identification
KIT DIMENSIONS

Part 1
ARP-K-GM-G8



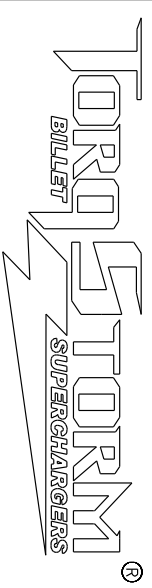
SPACER LAYOUT



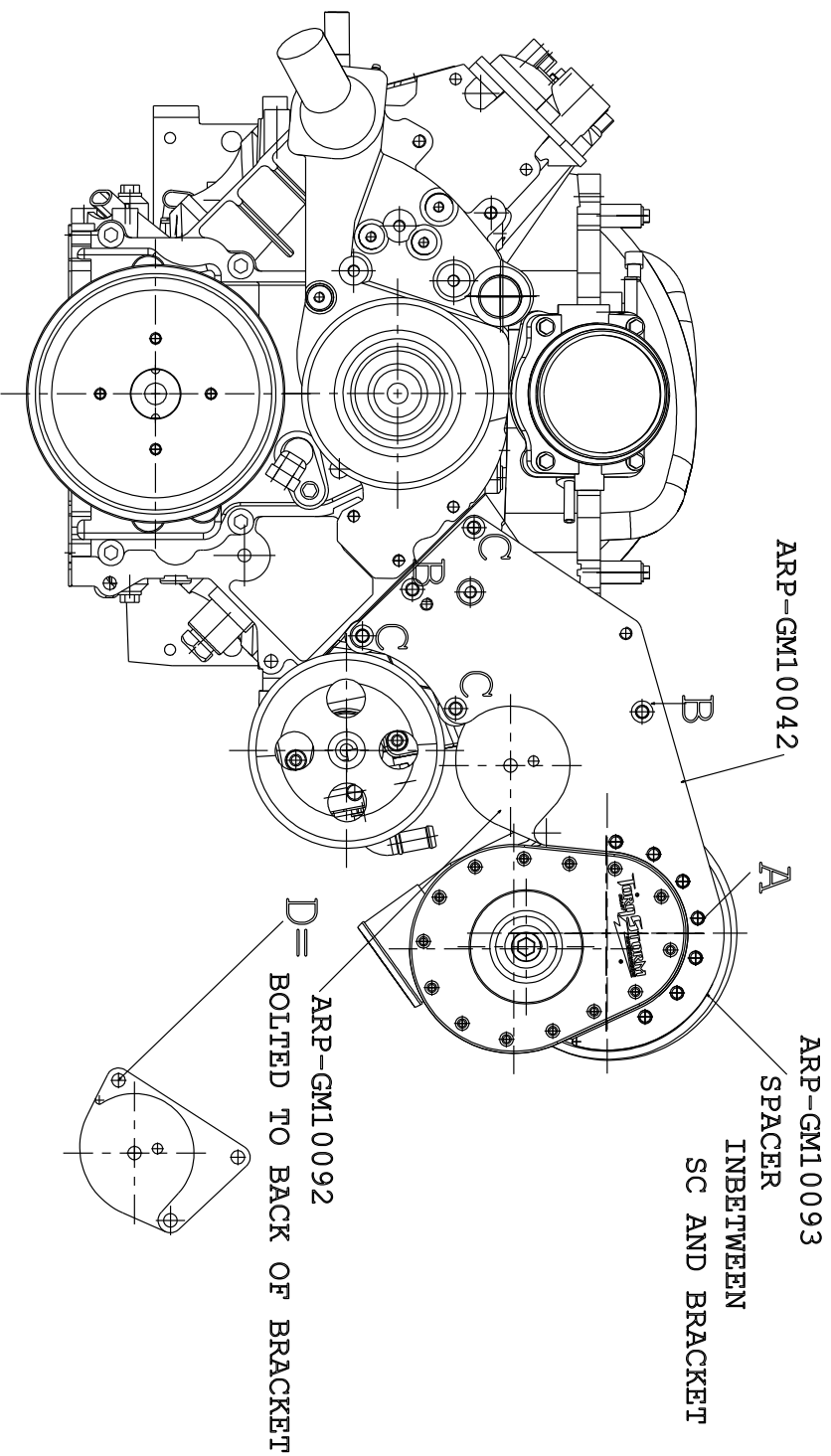
A = 3 @ ARP-S-75-3390 SPACER
B = 2 @ ARP-S-75-2575 SPACER

SPACER LAYOUT

ARP-K-GM-G8



SUPERCHARGER BRACKET LAYOUT



- A = 7 @ 3/8-16 X 2-1/4 SS SHCS
- B = 2 @ M10x1.5 X 110mm SS SHCS
- C = 3 @ M10x1.5 X 130mm SS SHCS
- D = 3 @ 3/8-16 X 3/4 SS SHCS

Identification
 SUPERCHARGER BRACKET LAYOUT
 Part 1
 ARP-K-GM-G8

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.

Oil Change Instructions



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.*

Instructions

BOV MAINTENANCE



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.



Instructions

BOV MAINTENANCE



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"



Instructions

BOV MAINTENANCE



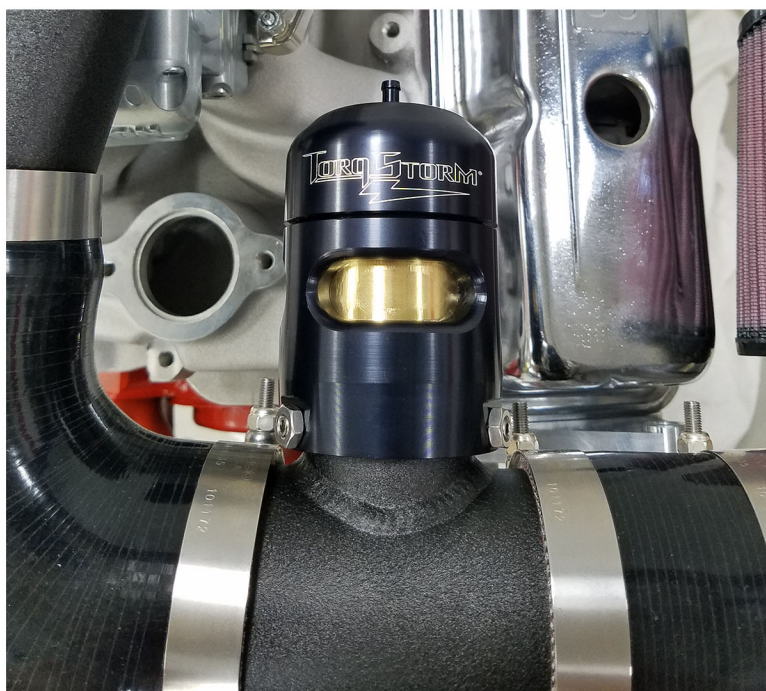
STEP 6

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.