

ARP-K-DG-HEMI2

2011+ HEMI LX CAR 5.7/6.4

INSTALLATION GUIDE



QUALITY AMERICAN MADE SUPERCHARGERS



Installation Instructions

2011-CURRENT 5.7/6.4

ARP-K-DG-HEMI2



STEP 1

Disconnect battery.

Remove engine cover and stock airbox assembly



STEP 2

Drain coolant system

STEP 3

Pull radiator top cover and unplug cooling fans. Remove upper and lower radiator hoses, remove cooling fans, remove radiator.

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STEP 4

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 5

Slide the bit out of the tool. Check your measurement. From the end of the taper to the tape should be 1.650".



STEP 6 (If using ATI remove factory balancer)

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



STEP 7

Install drill bit into your drill of choice, a 90 degree air drill works well for fitting into tighten 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.**



STEP 8

For stock balancer and hub.

Insert 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 9

Apply red loctite and install supplied bolt

Tighten to factory torque specs

Chrysler 130 ft lbs

STEP 10

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

Torque to 19 ft lbs



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STEP 11

For ATI Installation

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



STEP 12

Apply some gasket sealer to the ATI keyway so oil does not seep through.

Apply red loctite and install supplied bolt

Tighten to factory torque specs

Chrysler 130 ft lbs



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STEP 13

Remove Idler from drivers side head (3) M10 bolts.

STEP 14 (REFER TO LAYOUT SHEET)

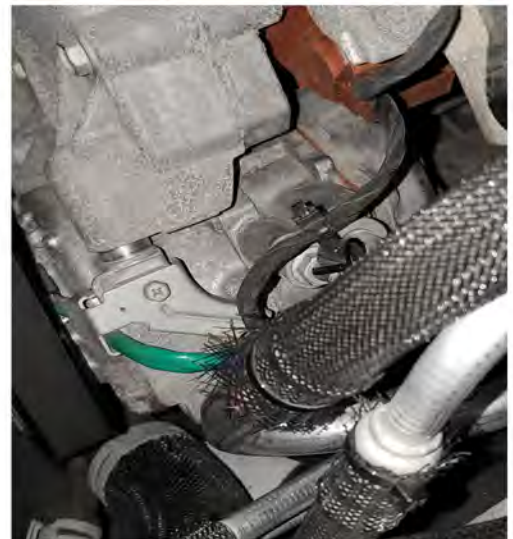
Install ARP-DG10027 bracket onto head with (3) ARP-S-75-0550 spacers behind the bracket and (3) M8x1.25x40mm bolts.

TORQUE TO 29 FT LBS



STEP 15

To make clearance between the ac clutch and the supercharger belt we need to remove the bolts that attach the ac compressor. Then install the supplied (3)1/4" spacers. The top left mount is a stud. Unscrew the stud and slide the spacer in between the block and compressor. Then re install the stud and nut. Then install the M8 x 110mm bolts and spacers in the bottom and rear locations.



STEP 16

Install ARP-DG10026 supercharger bracket with (3) ARP-S-75-2.030 spacers between the bracket and head plate. Use (3) 3/8-16 x 3 bolts. As well as (1) ARP-S-75-3.625 spacer between the head and supercharger bracket. Use (1) 8mm x 120mm bolt.

TORQUE TO 29 FT LBS



STEP 17

Install ARP-TORQ-10001 Supercharger to supercharger bracket using

(7) 3/8-16 x 1.25 shcs with AN washers.

Loosen nut on v-band to rotate the

compressor housing to achieve the desired location of the outlet. Only tighten nut till the housing can no longer rotate. Roughly 1/4-1/2" threads showing.

Torque bracket bolts to 29 ft lbs



STEP 18

Install accessory belt per factory diagram and

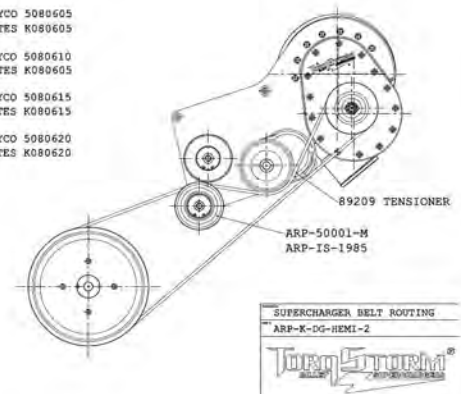
supercharger belt depending on your pulley size. Slide belt on balancer

first, then on supercharger. Releasing tension from the

supercharger tensioner, slide belt under pulley and over idler. At times loosening the head unit bolts can allow the belt to install easier. Check to be sure the belt is fully seated in grooves properly before starting.

BELT ROUTING

3-100" PULLEY =	DAYCO 5080605
	GATES K080605
3-1/4" PULLEY =	DAYCO 5080610
	GATES K080605
3-1/2" PULLEY =	DAYCO 5080615
	GATES K080615
4,000" PULLEY =	DAYCO 5080620
	GATES K080620



STEP 19

Install supercharger filter and 45 deg coupler, tube and clamps. May need trimming to achieve desired location.



STEP 20

Install radiator/support with radiator spacer kit ARP-DG50028A. M6 bolts on the upper spacers, threaded hole down. On the lower spacers, M8 threaded holes facing the front of vehicle. The point of these are to space the radiator 1" down and 1" forward.



STEP 21

Plumb the supercharger outlet according to your vehicle, you may have to adjust the supercharger scroll for proper alignment to supercharger. Note: Do not over tighten V-band clamp on scroll. Tighten clamp just until scroll cannot be rotated. Approx. 1/8"-1/4" threads showing past nut on clamp.

Hook up ARP-BOV-TORQ 52 BOV with ARP-TEMP-BUNG1 aluminum weld in bung in between the supercharger and throttle body. Hook up to vacuum source off of the intake with supplied vacuum line. Cut to length.



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OPTIONS:

- MAP SENSOR ADAPTER
P/N ARP-6.4HEMI-ADP (6.4) ARP-5.7HEMI-ADP (5.7)
- 2 BAR map sensor, Mopar replacement part # (5033224AB)
- IAT sensor part # 56027872

To run above atmospheric pressure, (positive) you will need to switch to a 2 bar map sensor. We can provide you with the map sensor and adapter. These are the steps to adapt to your vehicle. Remove factory map. Shave off the extra tab so it fits in the plug. Mount to adapter. Install adapter into intake, gently twist to lock in place. Plug back in and you are finished. *You will not be able to run the vehicle once this is installed.*

This requires a re-tune.

6.4



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OPTIONS:

Do to the large size of the factory coolant tank, you will need to replace it with one that will allow clearance for the supercharger inlet. There may be other options out there. We offer a nice solution.



COOLANT TANK

P/N ARP-DG50024

Use factory mounting hardware and cap.
Along with factory hoses and clamps



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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.

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

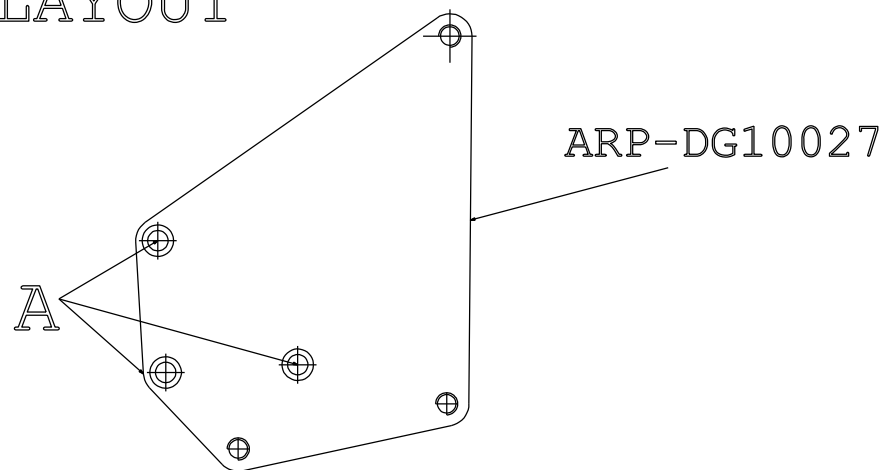
Order oil direct from TorqStorm. Part number ARP-OIL-MTL

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

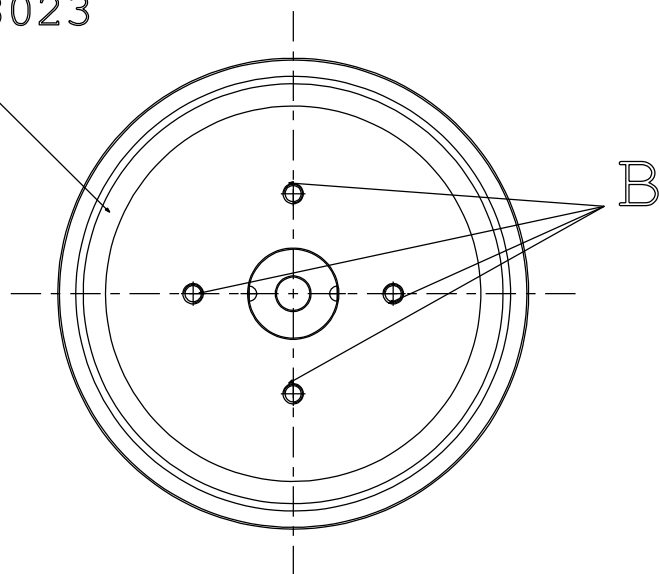
Additional information for Boost

- 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*

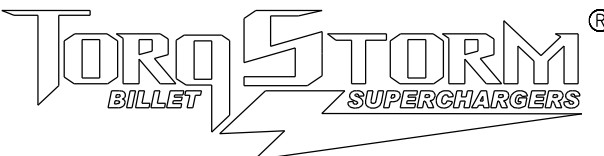
HEAD BRACKET & SPACER LAYOUT



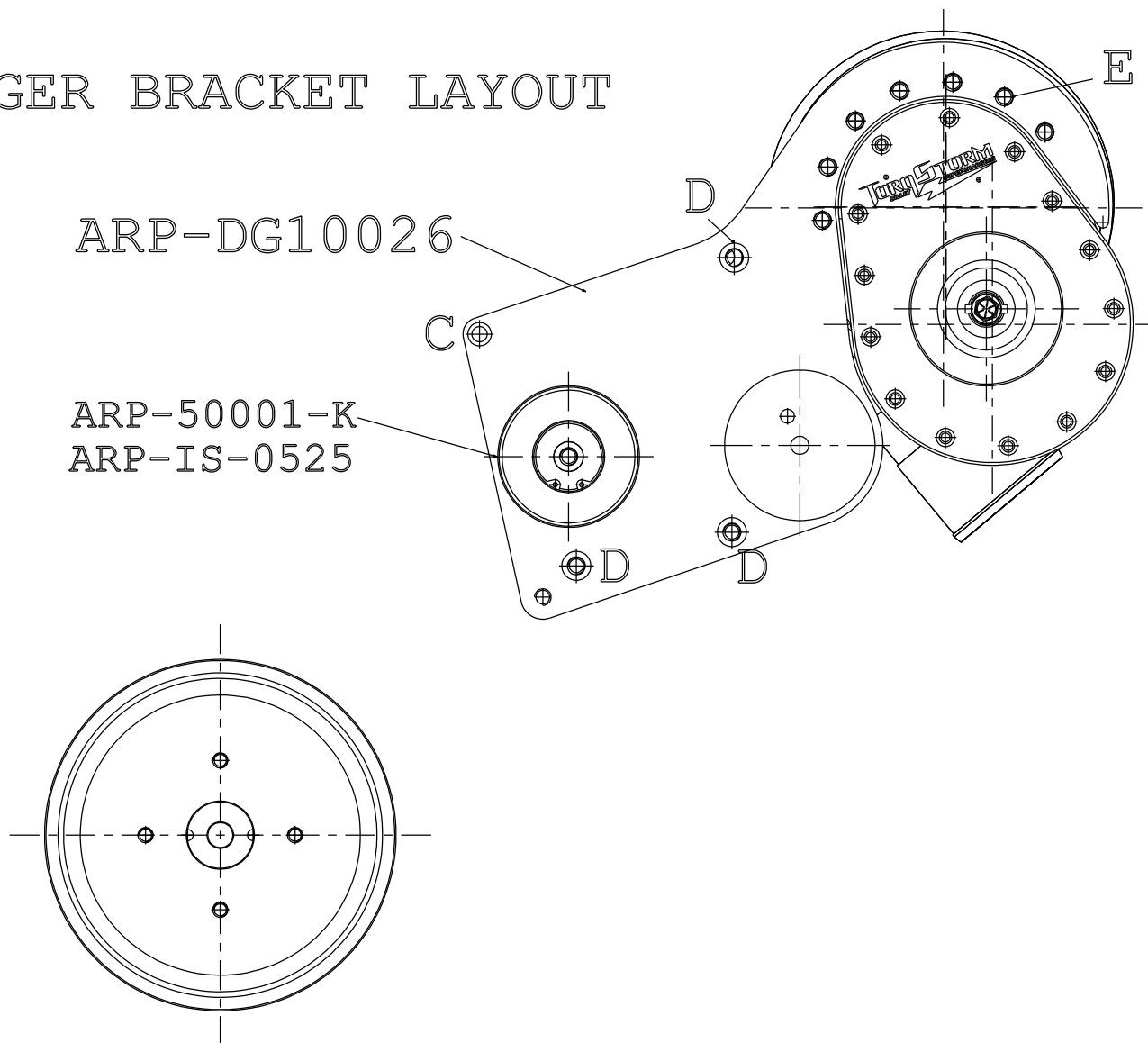
ARP-DG68023



A = 3 @ M8 x 1.25 x 40MM SS SHCS
A = 3 @ ARP-S-75-0550 BEHIND BRACKET
B = 4 @ 5/16-24 x 3/4 SS SHCS

Description
HEAD BRACKET LAYOUT
Part #
ARP-K-DG-HEMI-2


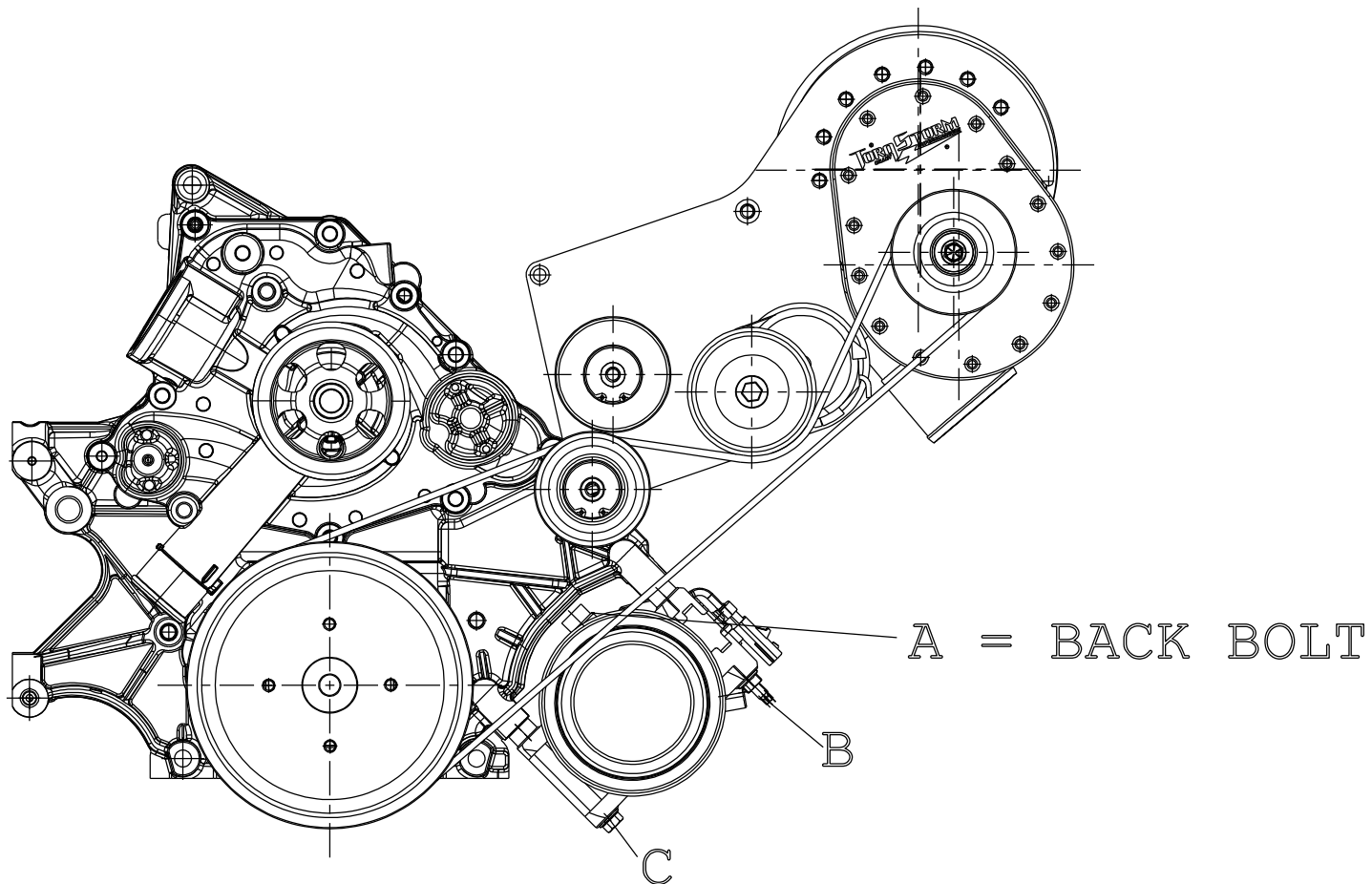
SUPERCHARGER BRACKET LAYOUT



- C = 1 @ M8 x 1.25 x 120mm SS SHCS
- C = 1 @ ARP-S-75-3850 SPACER BEHIND BRACKET
- D = 3 @ 3/8-16 x 3.0 SS SHCS
- D = 3 @ ARP-S-75-2030 SPACER BEHIND BRACKET
- E = 7 @ 3/8-16 x 1-1/4 SS SHCS

Description	SUPERCHARGER BRACKET LAYOUT
Part #	ARP-K-DG-HEMI-2

AC COMPRESSOR LAYOUT



A-B-C = 1 EACH ARP-S-75-0250 SPACER

A = 1 @ M8x1.25 x 110mm SS FHB

B = RE-USE FACTORY STUD & NUT

C = RE-USE FACTORY BOLT

Description	SUPERCHARGER BRACKET LAYOUT
Part #	ARP-K-DG-HEMI-2

TORQSTORM[®]
BILLET SUPERCHARGERS

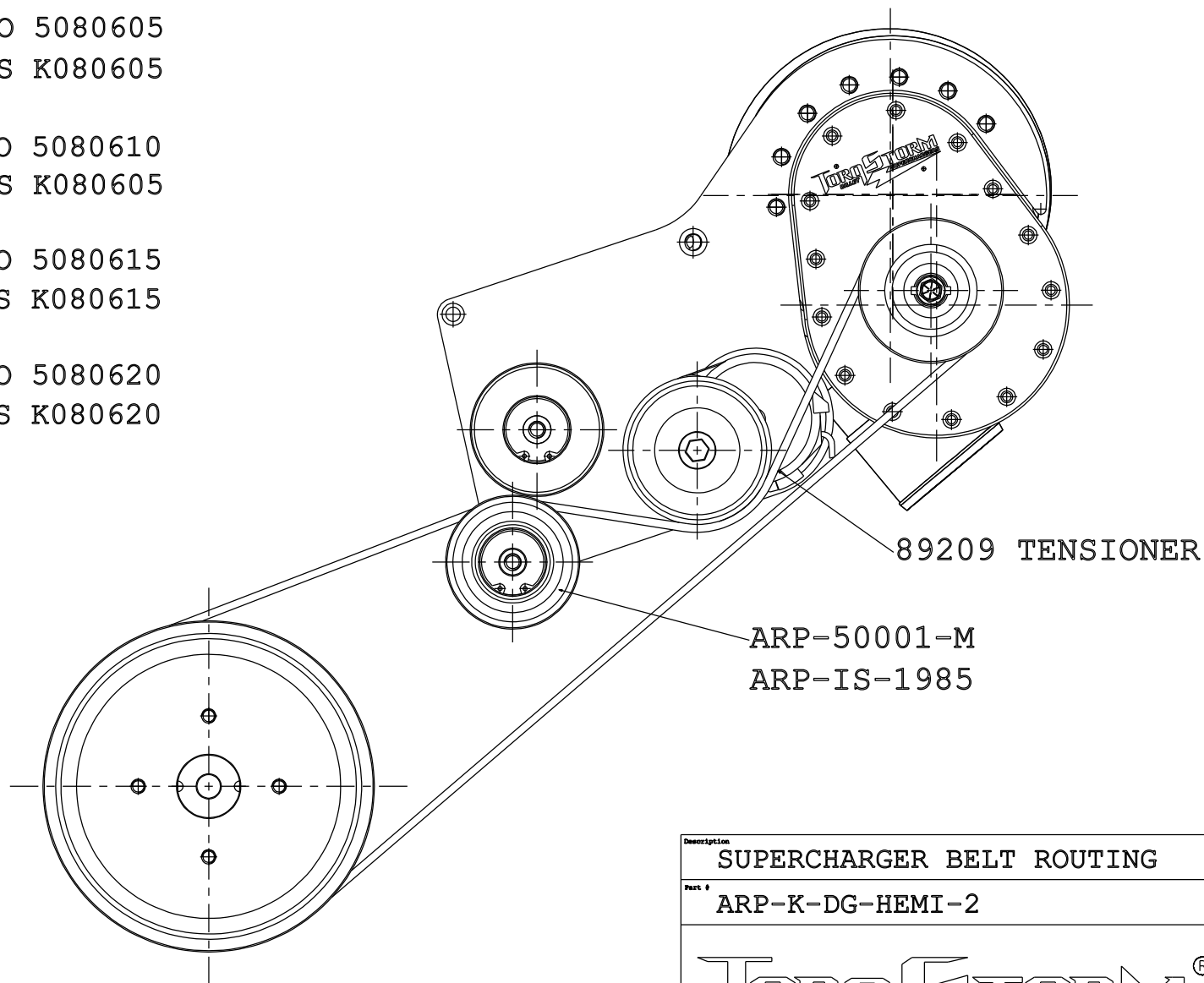
BELT ROUTING

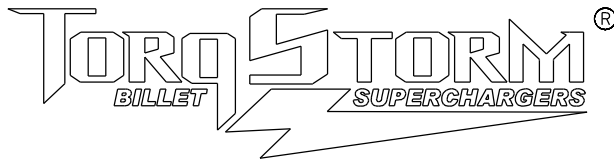
3-100⁰⁰ PULLEY = DAYCO 5080605
GATES K080605

3-1/4⁰⁰ PULLEY = DAYCO 5080610
GATES K080605

3-1/2⁰⁰ PULLEY = DAYCO 5080615
GATES K080615

4.000⁰⁰ PULLEY = DAYCO 5080620
GATES K080620

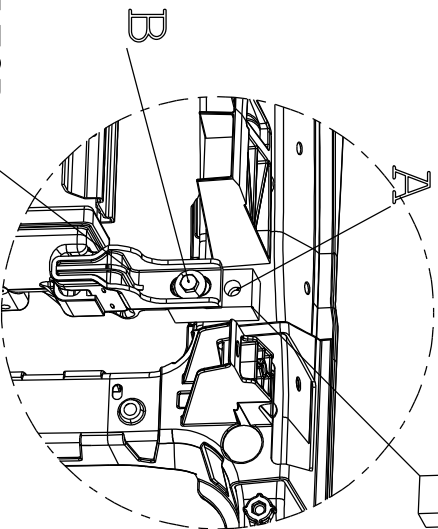


Description	SUPERCHARGER BELT ROUTING
Part #	ARP-K-DG-HEMI-2
	

RADIATOR SUPPORT RELOCATOR LAYOUT REPEAT ON BOTH SIDES

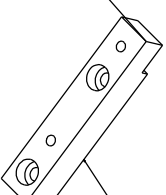
UPPER

ARP-DG50028C

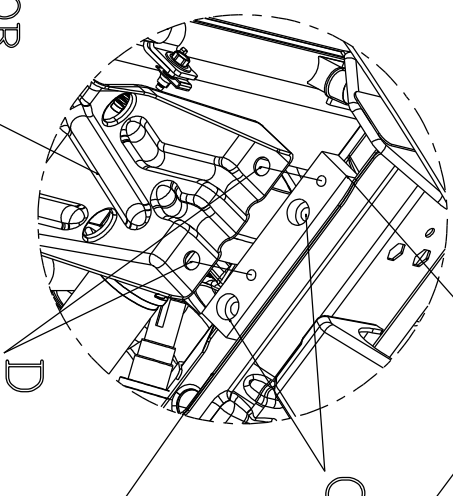


RADIATOR
HANGER

LOWER



ARP-DG50028D



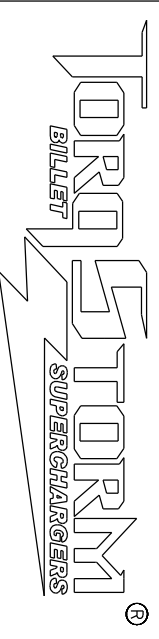
RADIATOR
SUPPORT

FRAME

- A = 1 @ M6x1.0 x 30mm SS SHCS
- B = 1 @ M6x1.0 x 20mm SS SHCS & WASHER
- C = 2 @ M8x1.25 x 30mm SS SHCS
- D = 2 @ M8x1.25 x 20 SS SHCS & WASHER

Instructions
RADIATOR RELOCATOR LAYOUT

Part #
ARP-DG50028C LAYOUT



Oil Change Instructions



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

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.