

TORQ STORM[®]

BILLET SUPERCHARGERS



3RD GEN HEMI RAM TUNER KIT
ARP-K-DG-HEMI4

Installation Instructions

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STEP 1

Disconnect battery.

Drain coolant.

Unplug the iat sensor and remove factory airbox or CAI.

Remove coolant overflow and washer tank. Remove fan and shroud.



STEP 2

Remove any grounds that may be on the cyl head.

Assuming your vehicle already has egr deleted. Install the head plate with o-ring in place.

Use (2) M8 bolts in the egr holes.



Installation Instructions

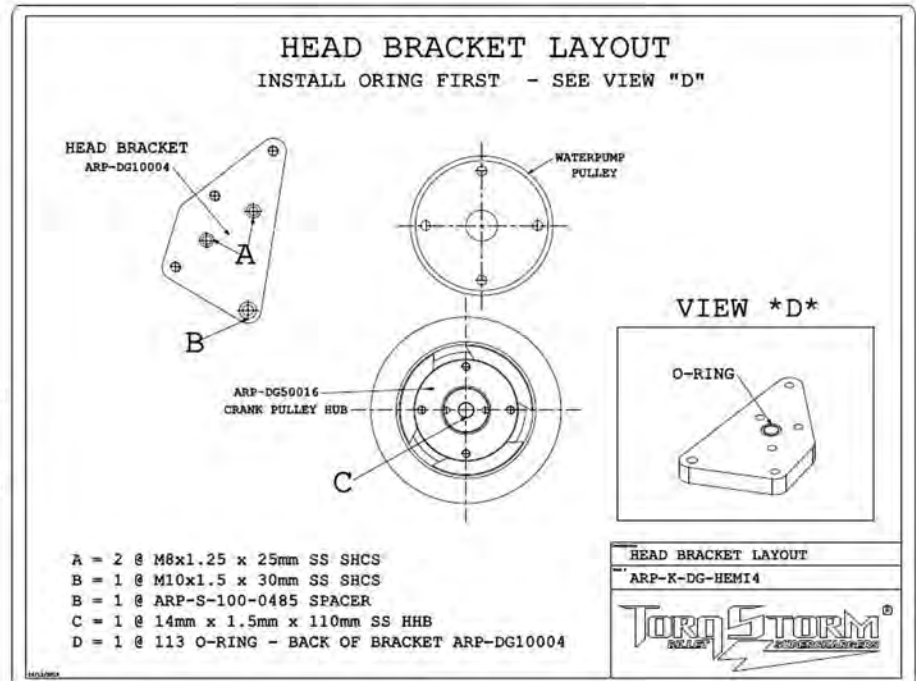
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STEP 3

Refer to the layout sheet for bolt/spacer placements. While attaching the head bracket also insert the .485" spacer in hole location B with an M10 x 30mm bolt.

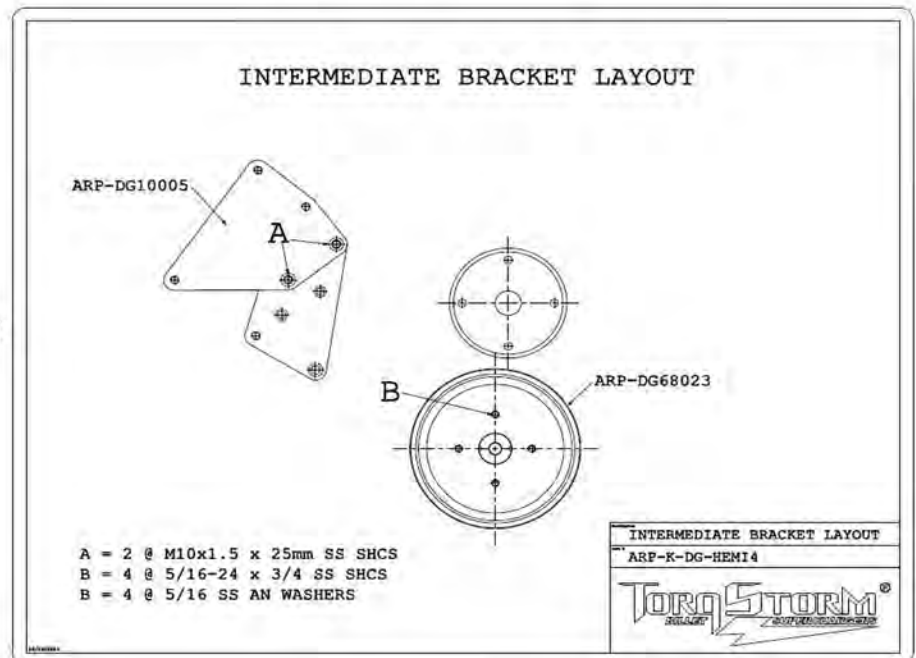


Torque M8 to 19 ft lbs
M10 to 29 ft lbs

STEP 4

Install the intermediate bracket using (2) M10 x 25mm bolts to attach to the head plate.

Torque to 29 ft lbs



Installation Instructions

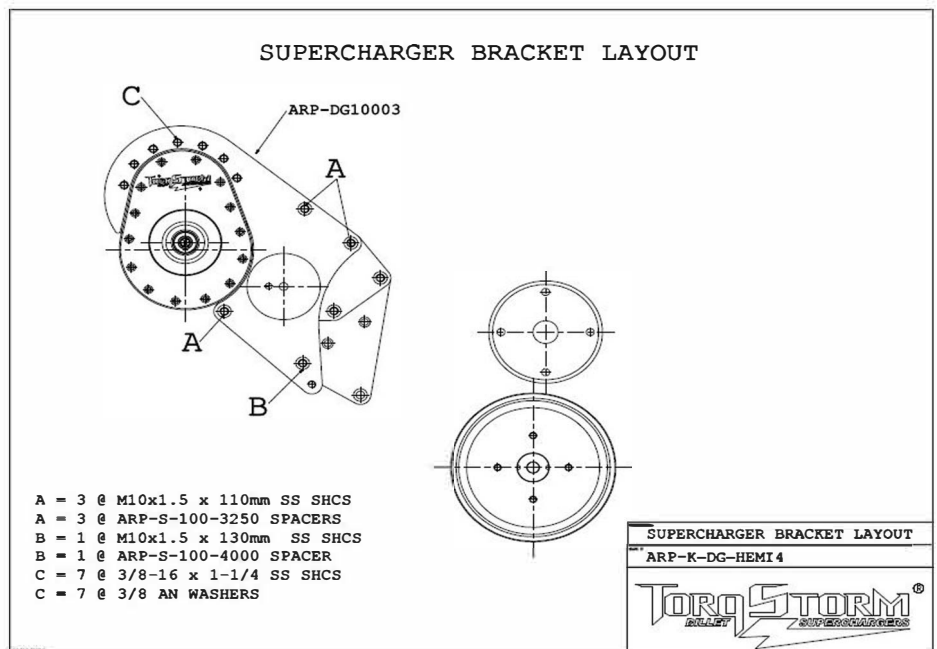
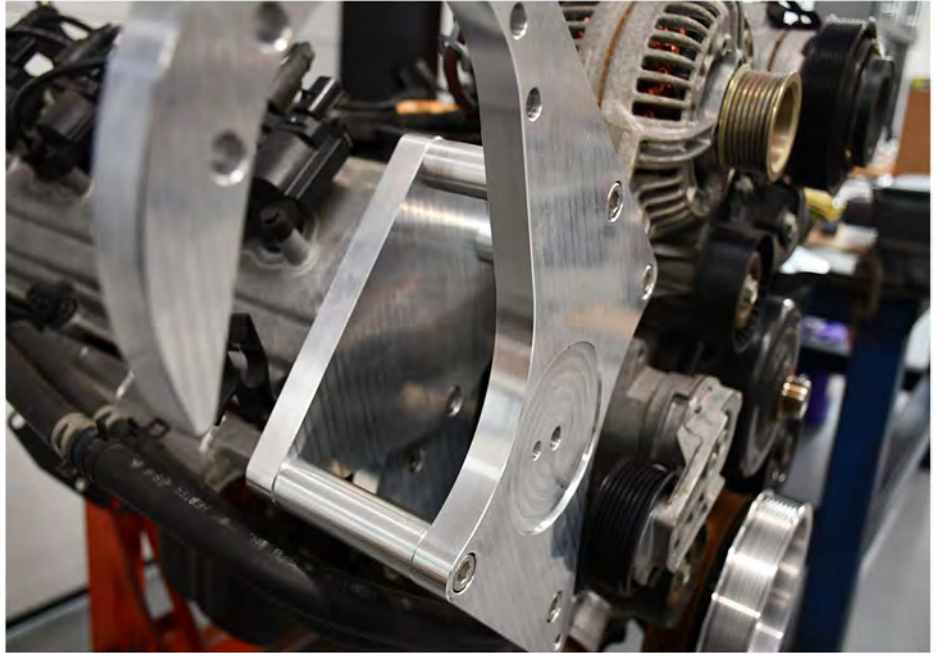
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STEP 5

Attach the supercharger bracket to the intermediate and head plate, refer to the layout sheet. You will need to temporarily remove the tensioner and idler to access one of the mounting bolt holes.



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STEP 6

Re-install the tensioner. Be sure to have it in the correct pin location.

Install the 8-rib idler pulley and spacer

Torque to 29 ft lbs



STEP 7

Install the supercharger to the bracket using (7) 3/8-16 x 1.25" and AN washers.

Torque to 29 ft lbs



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STEP 8

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 9

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 10

Install the pin tool with supplied bolt.

Snug down so tool is locked in position while drilling.

STEP 11

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 12

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 13

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

Torque to 130 ft. lbs



STEP 14

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 15

Apply red loctite and install supplied bolt

Tighten to factory torque specs

Chrysler 130 ft lbs

STEP 16

Install supercharger crank pulley using (4)

5/16 bolts and washers.

Torque to 17 ft lbs.



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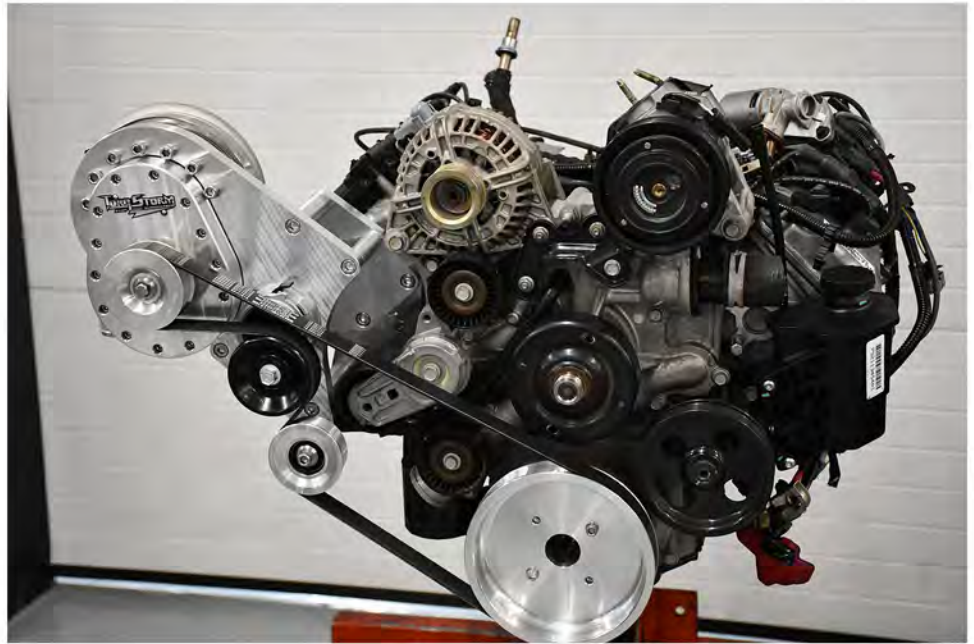
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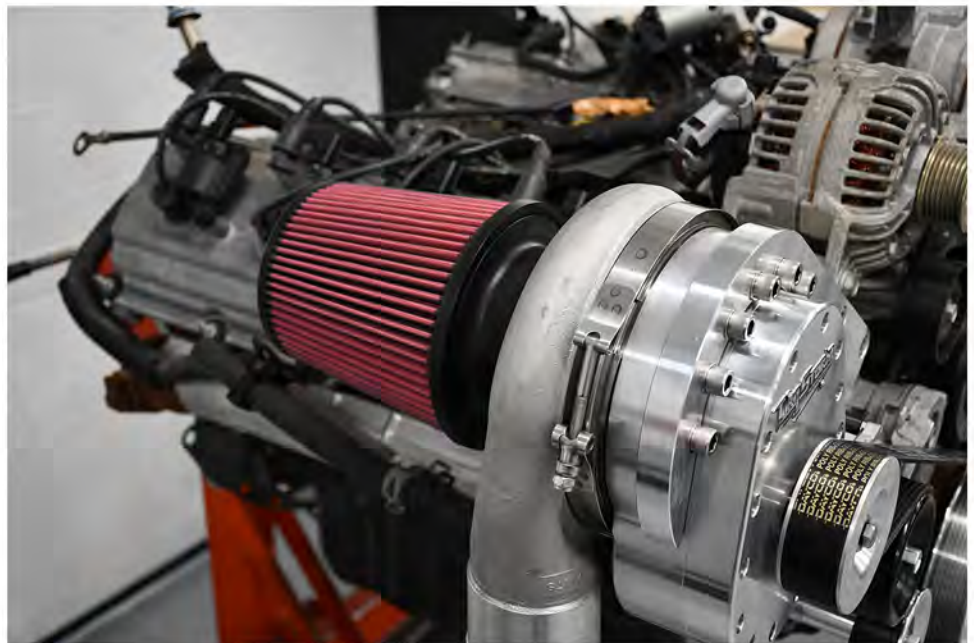
STEP 17

Re-install the accessory and supercharger belt. When installing the supercharger belt it is best to start with putting the belt on the supercharger and the crank pulley. Then slide it over the idler while pulling open the tensioner and sliding the belt over it.



STEP 18

Install the air filter with supplied T-bolt clamp.



STEP 19

Plumb the charge piping according to your vehicle, you may have to adjust the supercharger scroll to fit the piping. To do so loosen the v-band clamp and rotate.

Do not over tighten the V-band clamp on scroll.

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



STEP 20

Install the BOV with provided weld in bung. Weld the bov tube onto a 3" aluminum pipe. With the supplied vacuum hose, connect to a vacuum source. You can tap into your brake booster hose with a tee fitting and some clamps.

STEP 21

Replace radiator fans, coolant tank and fill with coolant.

OPTIONS:

MAP SENSOR ADAPTER P/N ARP-5.7HEMI-ADP (5.7)

To run above atmospheric pressure, (positive) you will need to switch to a 2 bar map sensor.

We can provide you with the 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.***



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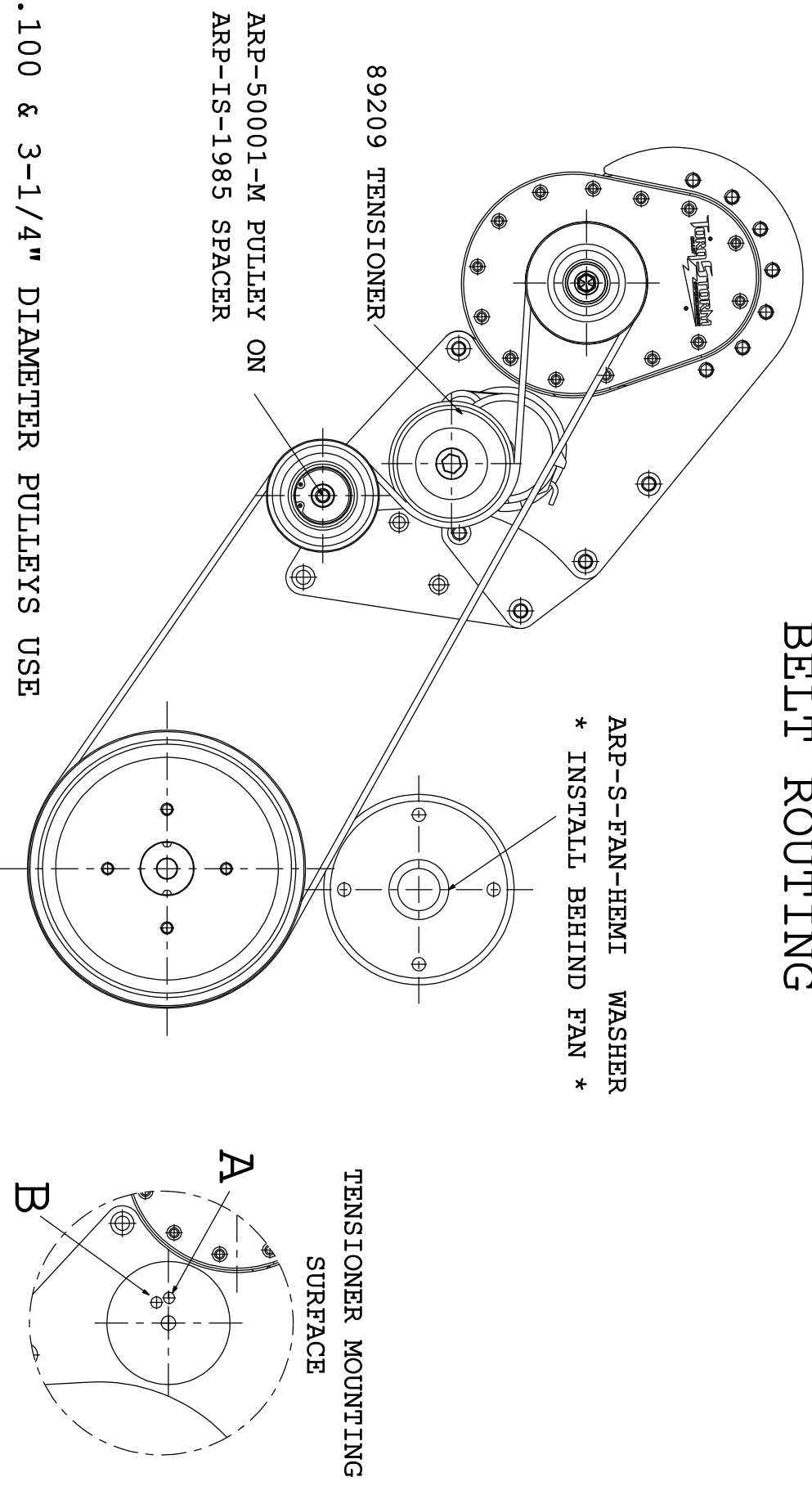
- Replace all spark plugs with one or two heat ranges cooler.
- Fuel/ Ignition managment system must be tuned when installing Torqstorm Supercharger.
- Reconnect battery
- Double check all fittings, bolts, clamps. Make sure all wires and lines are properly secured with clamps or wire ties .
- Make sure 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.
- Change your oil in the S/C every 10k miles or once a year. Failure to run Torqstorm approved oil will void warranty. *Order direct from Torqstorm Part NO ARP-OIL-MTL*
- *Fill out warranty card and send it in 30 days from arrival of supercharger to qualify.*

Failure to do so may affect your limited lifetime warranty.

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



3.100 & 3-1/4" DIAMETER PULLEYS USE

PIN - B DAYCO = 5080635
GATES = K080635

3-1/2" DIAMETER PULLEYS USE

PIN - A DAYCO = 5080630
GATES = K080630

Description
BELT ROUTING

Part #
ARP-K-DG-HEMI 4

