

ARP-K-GM-LS1010 LS-1 SPACING TRANSPLANT KIT NO ACC
ARP-K-GM-LS1023 TRUCK SPACING TRANSPLANT KIT NO ACC

INSTALLATION GUIDE



QUALITY AMERICAN MADE SUPERCHARGERS



Installation Instructions

LS conversion Plus - No Accessories

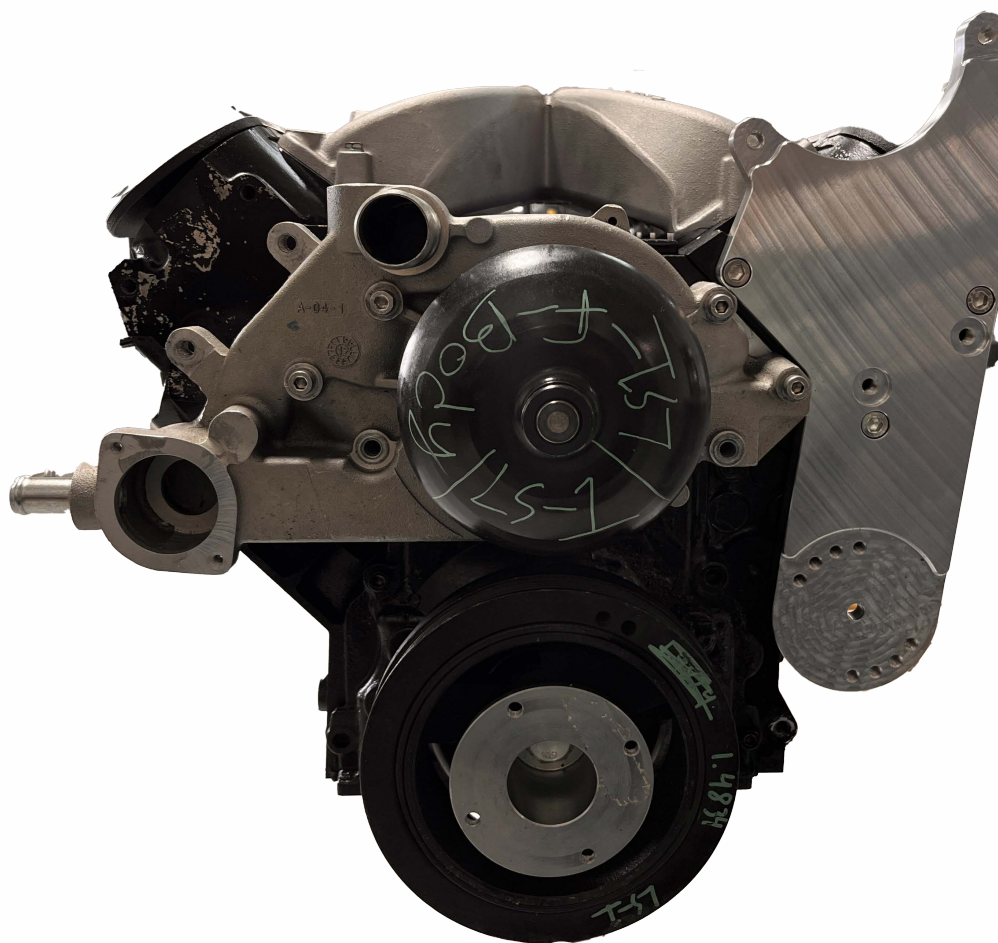
ARP-K-GM-LS1010



STEP 1

Install head plate ARP-GM10221 on drivers side head with 3) M10 X 1.5 X 25MM bolts.

Tighten to 29 ft lbs



Installation Instructions

LS conversion Plus - No Accessories

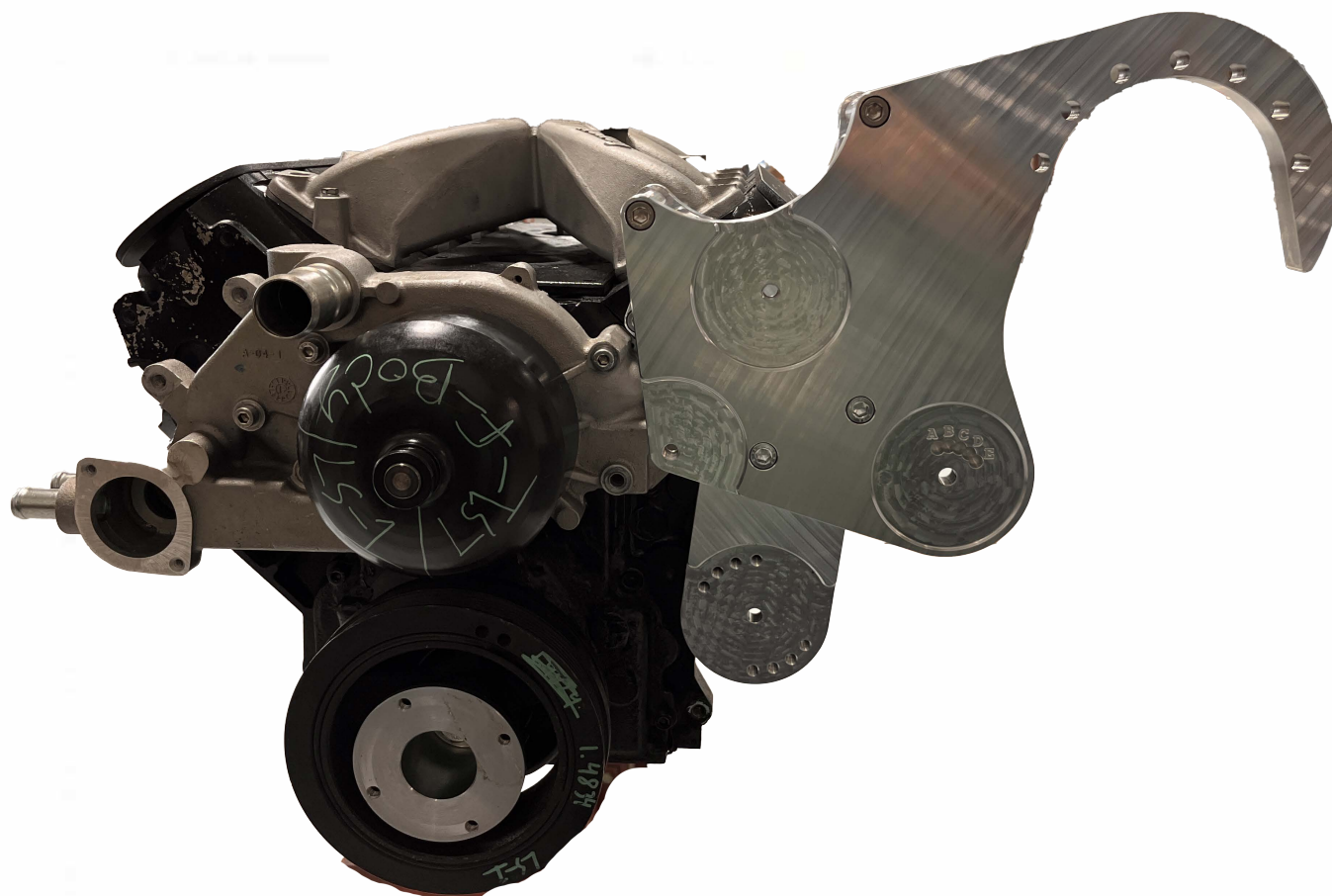
ARP-K-GM-LS1010



STEP 2

Install supercharger bracket ARP-GM10055. Mount with (2) m10x1.5x85mm bolts and (2) 2.475" spacers. **For truck spacing bolts are, M10x1.5x100MM, spacers are 3.125".**

Do not torque down until Alternator is mounted.



Installation Instructions

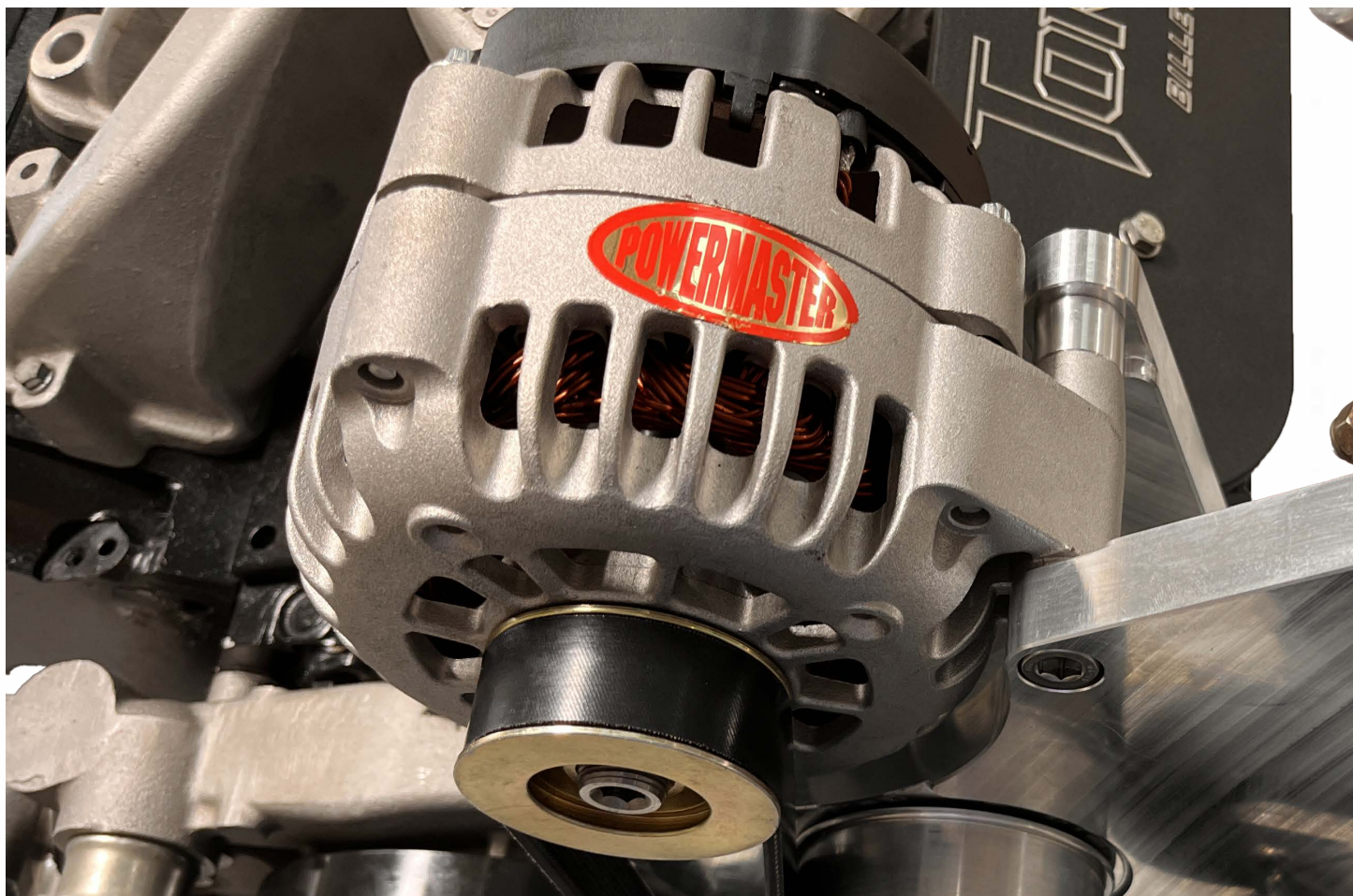
LS conversion Plus - No Accessories

ARP-K-GM-LS1010



STEP 3

Install your alternator with (2) M10X1.5X90MM bolts through (2) 0.550" spacers between the alternator and the head plate. *For truck spacing use the two M10x1.5x105MM, and the two 1.290 spacers for the alternator.* Tighten all bolts to 29 FTLBS



Installation Instructions

LS conversion Plus - No Accessories

ARP-K-GM-LS1010



STEP 4

Setting up the drill and pin kit ARP-50064A.

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. Slide the bit out of the tool.

Check your measurement. From the end of the taper to the tape should be 1.650".

After removing the factory balancer bolt, install drill bushing with supplied bolt, tighten down.

Drill the pin hole to designated depth as instructed.

Clean all debree using an air tool.

Remove the drill and pin kit from the crank.



Installation Instructions

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ARP-K-GM-LS1010



STEP 5

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 6

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

GM 219 ft. lbs



STEP 7

For stock balancer and hub.

Insert the 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 8

Apply red loctite and install supplied bolt

Tighten to factory torque specs

GM 219 ft. lbs

STEP 9

Install supercharger crank pulley using (4) 5/16-24 bolts and washers for the hub. For the ATI use the supplied (4) 12 point chrome bolts and washers.



Installation Instructions
LS conversion Plus - No Accessories
ARP-K-GM-LS1010



STEP 10

If you are using a power steering pump. Install your type two power steering pump using (2) 5/16x18x2.75. **If you are running truck spacing install the spacer ARP-GM10130 And use the 5/16-18X3.5" bolts.**

Pump is not provided in this kit.

Tighten to 19 ft lbs



Installation Instructions

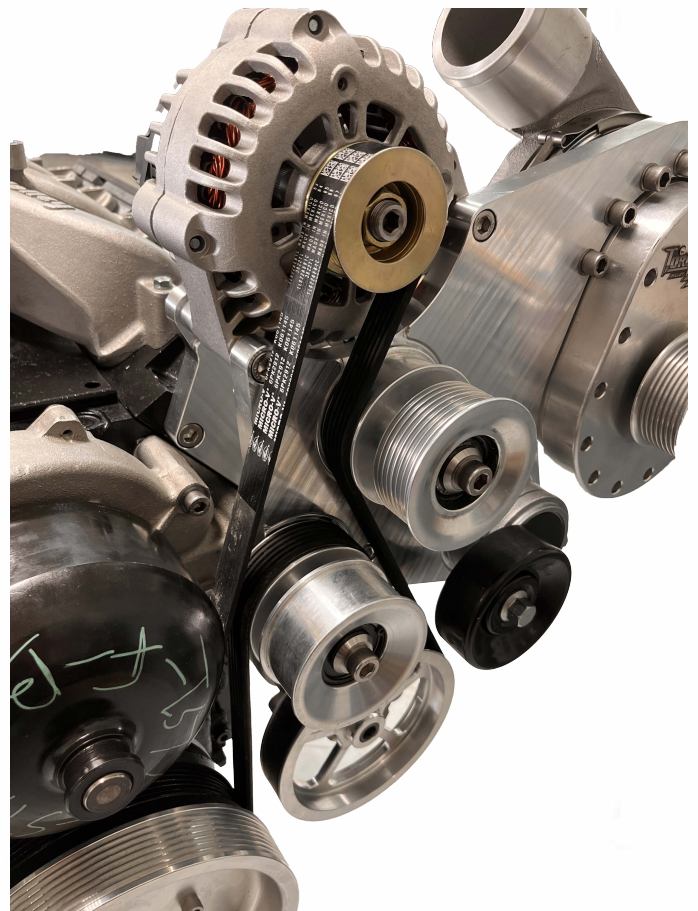
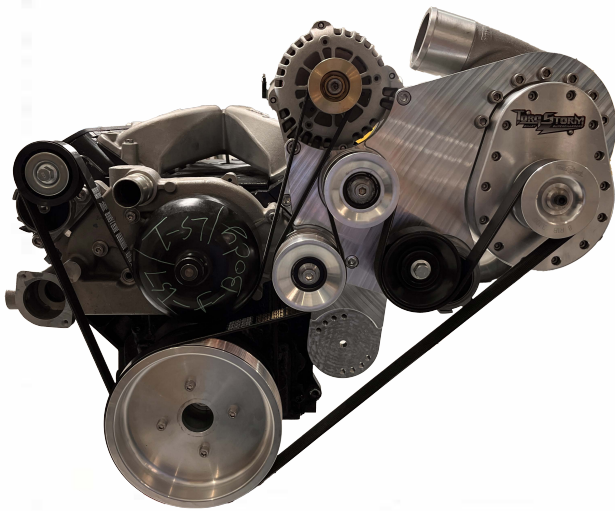
LS conversion Plus - No Accessories

ARP-K-GM-LS1010



STEP 11

Install Supercharger head unit using (7) 3/8 x 16 x 1.25 bolts and AN washers. **Torque to 29 ft lbs** Route accessory belt as shown. (May change depending on your accessories being used refer to lay out sheets for routing options). Install the idler pulleys and the tensioner assembly. The idlers are stacked up as double idlers. Please refer to the pulley lay out sheet in the back of the booklet for proper spacer and pulley layout. Photo shown below for reference.



Installation Instructions

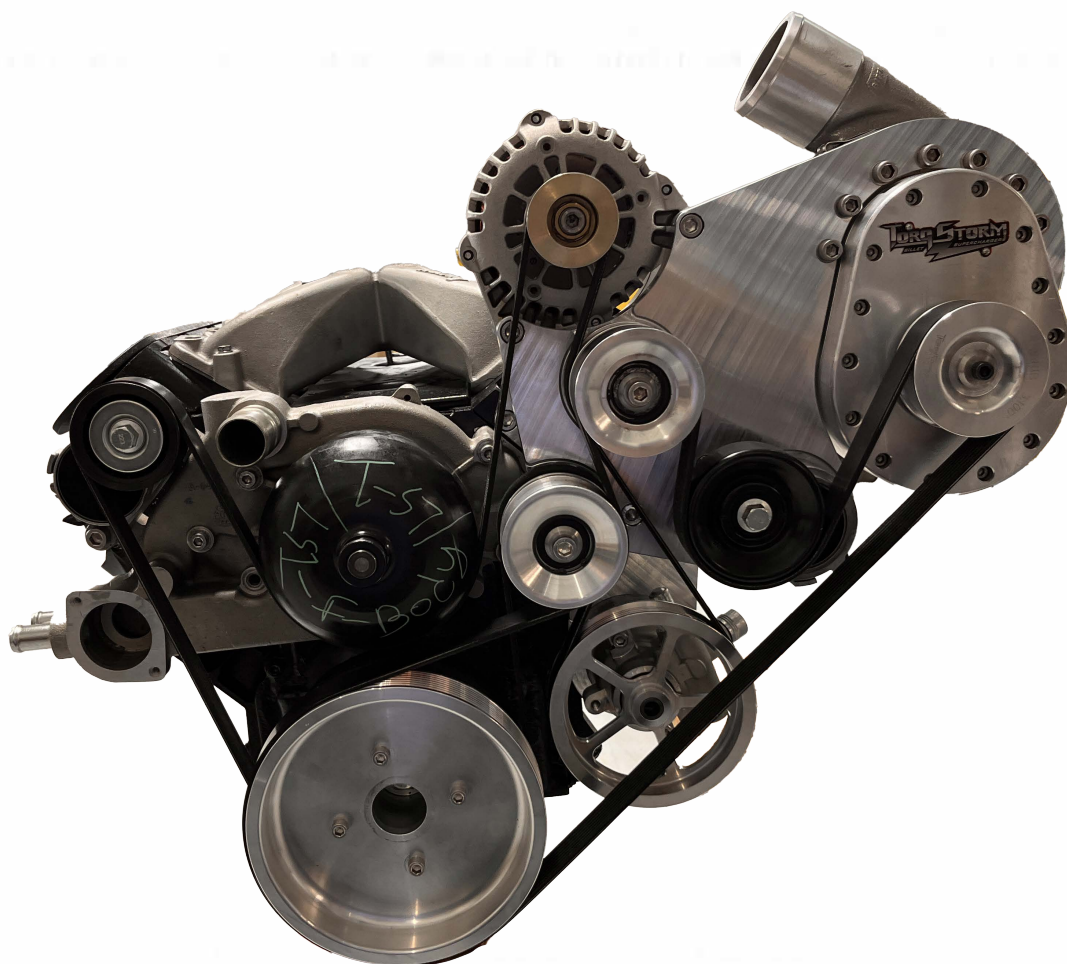
LS conversion Plus - No Accessories

ARP-K-GM-LS1010



STEP 12

Install the accessory belt. there is a variation in belt size depending on the accessories that you choose to run. please refer to the belt routing sheet in the back of the booklet, all belt sizes and routings are listed. Install the supercharger belt as shown depending on the pulley installed on the supercharger you may have to verify that the tensioner is in the correct pin hole. the belt routing sheet in the back of the booklet has the complete routing listed.



Installation Instructions
LS conversion Plus - No Accessories
ARP-K-GM-LS1010



STEP 13

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.



Installation Instructions



- *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. 11.6 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

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.

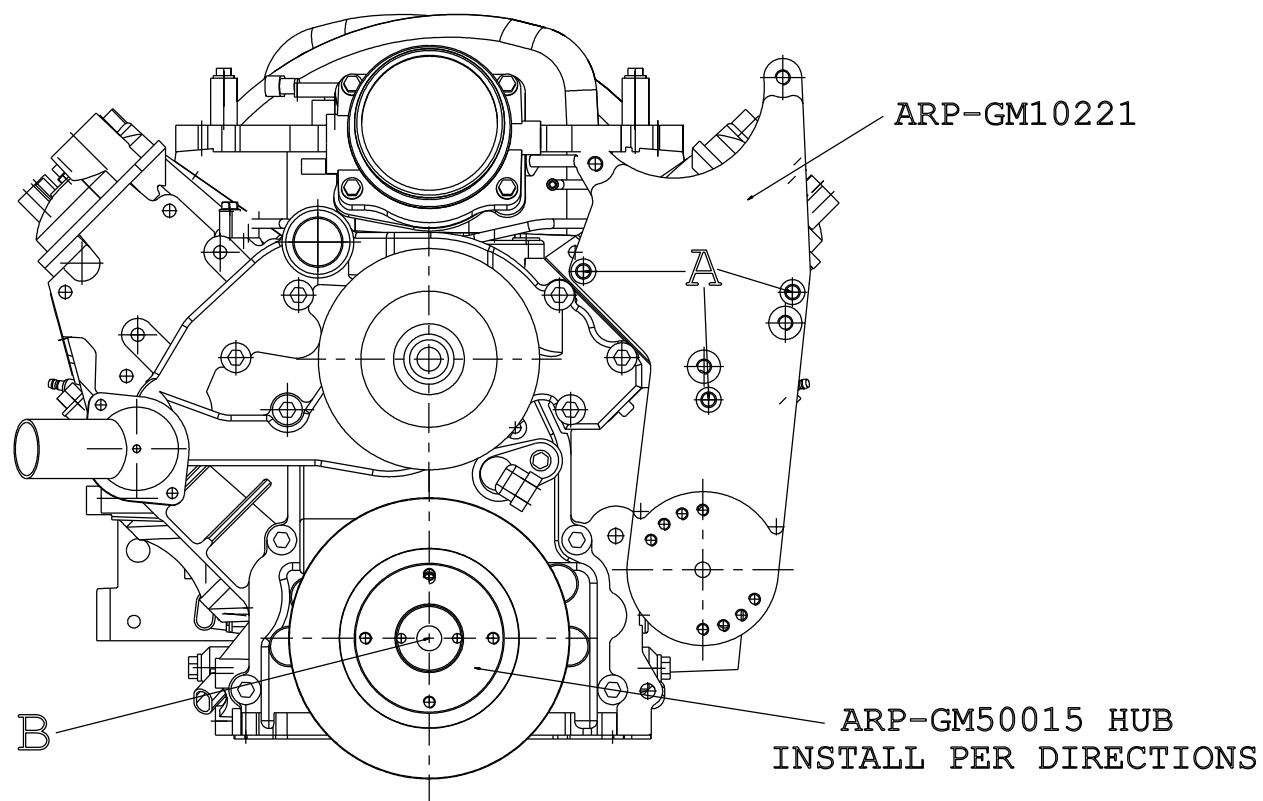


STEP 7

Attach your vacuum line and check operation.



HEAD BRACKET LAYOUT

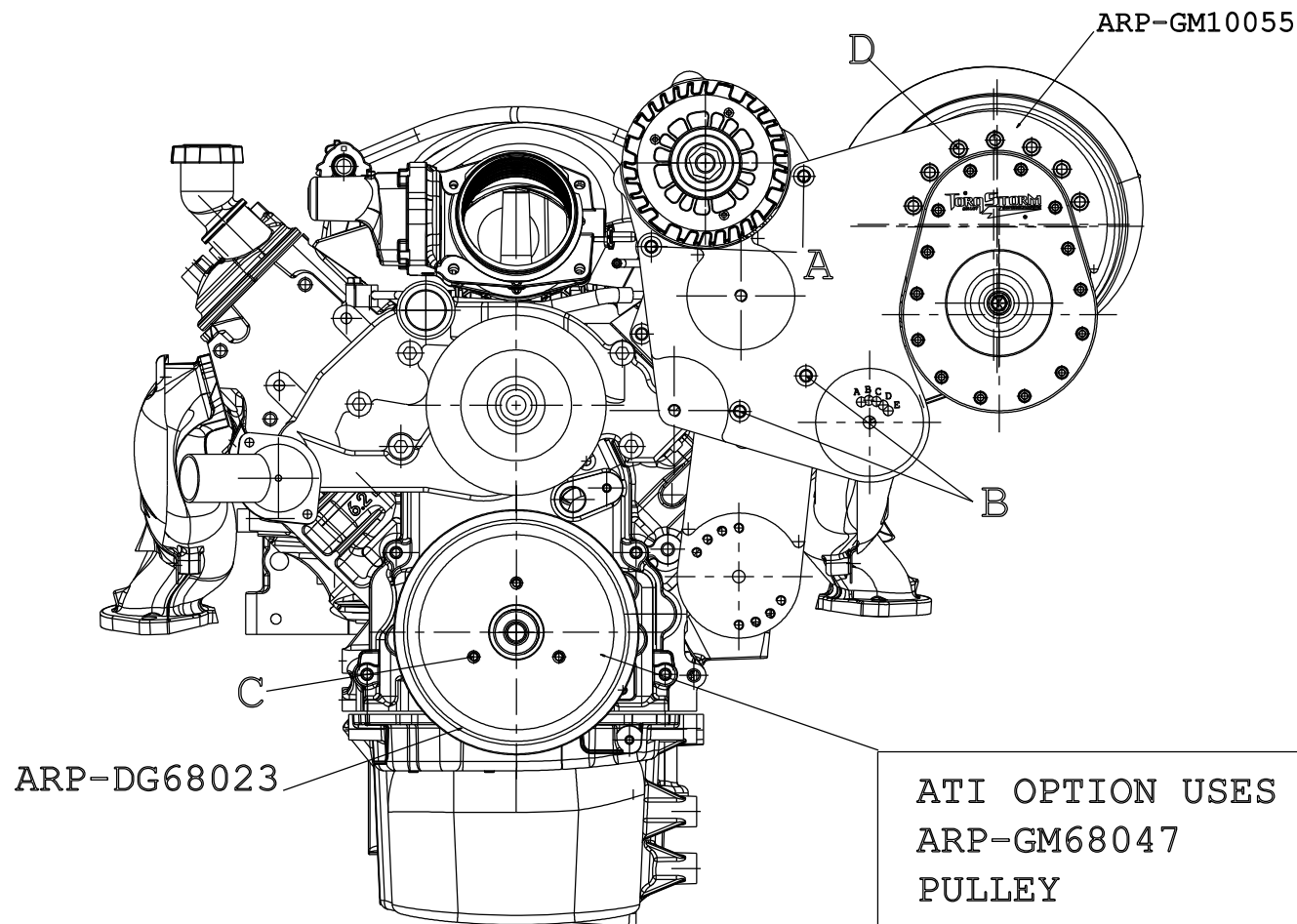


ATI OPTION USES
ATI-918853 DAMPER
INSTALL PER ATI

A = 3 @ M10x1.5 x 25mm SS SHCS
B = 1 @ ARP-GM50029 CRANK BOLT

Description
HEAD BRACKET LAYOUT
Part #
ARP-K-GM-LS1010
TORQSTORM[®] BILLET SUPERCHARGERS

SUPERCHARGER BRACKET LAYOUT



ATI OPTION USES
ARP-GM68047
PULLEY

- A = 2 @ M10x1.5 x 90mm SS SHCS
- A = 2 @ ARP-S-75-0550 SPACER
- B = 1 @ M10x1.5 x 85mm SS SHCS
- B = 2 @ ARP-S-75-2475 SPACER
- C = 4 @ 5/16-24 x 3/4 SS HHB
- C = IF ATI OPTION USE ATI FASTNERS
- D = 7 @ 3/8-16 x 1-1/4" SS SHCS

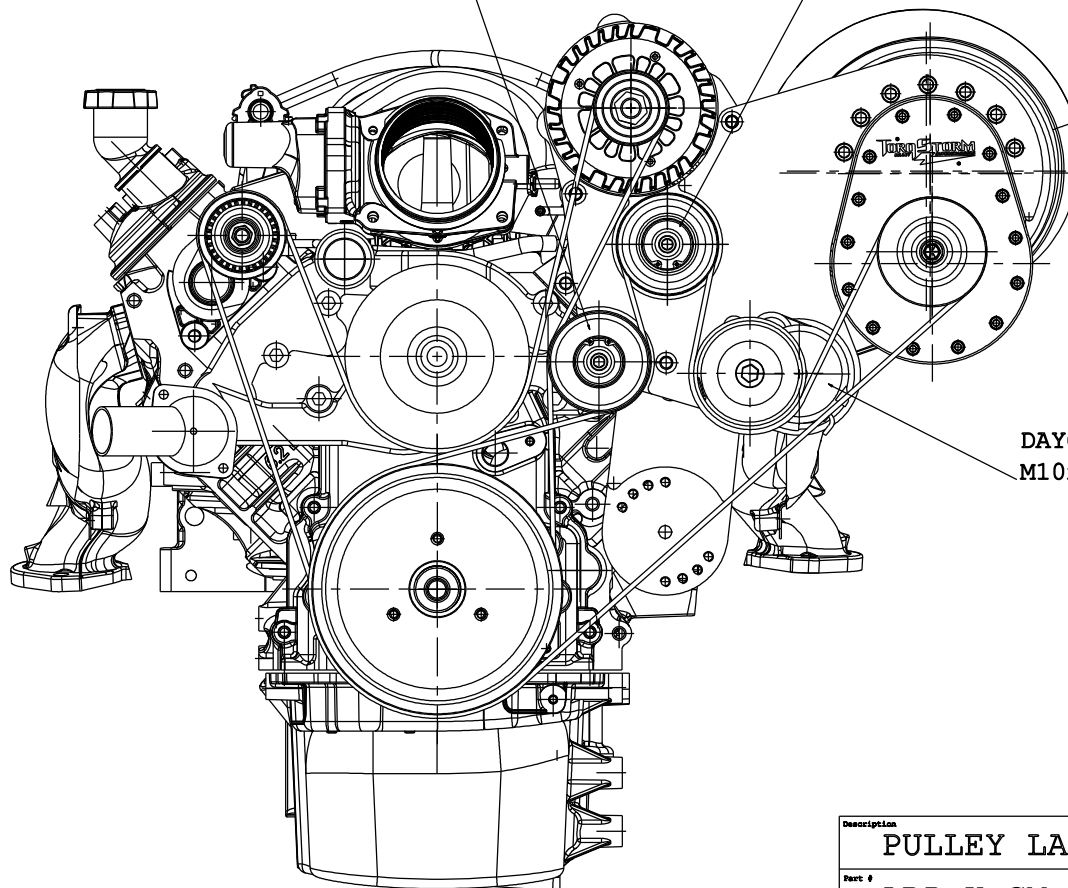
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SUPERCHARGER BRACKET LAYOUT
Part #
ARP-K-GM-LS1010

TORQ STORM[®]
BILLET SUPERCHARGERS

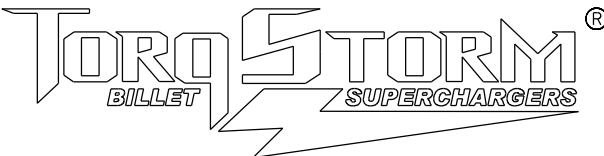
PULLEY LAYOUT

ARP-IS-0525 SPACER
ARP-50001-N PULLEY
ARP-FD50097 SPACER
ARP-50001-A PULLEY
ARP-50026 WASHER
M10x1.5 x 90mm SS SHCS

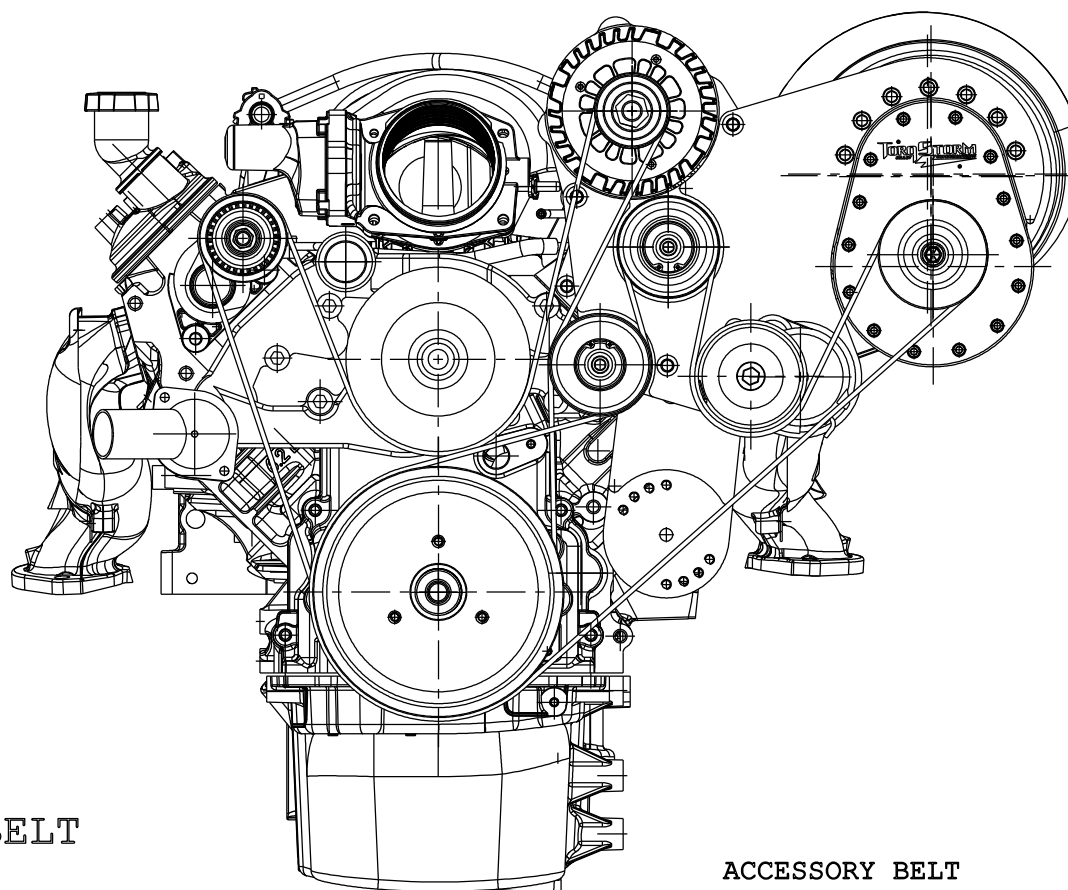
ARP-IS-0525 SPACER
ARP-50001-N PULLEY
ARP-FD50097 SPACER
ARP-50001-M PULLEY
ARP-50026 WASHER
M10x1.5 x 90mm SS SHCS



DAYCO 89209 TENSIONER
M10x1.5 FLANGE NUT

Description	PULLEY LAYOUT
Part #	ARP-K-GM-LS1010
	

BELT ROUTING



8 RIB SUPERCHARGER BELT

3.100" PULLEY USES PIN "B" = DAYCO 5080700
GATES K080700

3-1/4" PULLEY USES PIN "C" = DAYCO 5080700
GATES K080700

3-1/2" PULLEY USES PIN "C" = DAYCO 5080700
GATES K080700

3-3/4" PULLEY USES PIN "D" = DAYCO 5080700
GATES K080700

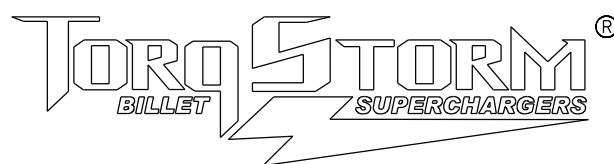
4.000" PULLEYS USE PIN "D" = DAYCO 5080700
GATES K080700

ACCESSORY BELT

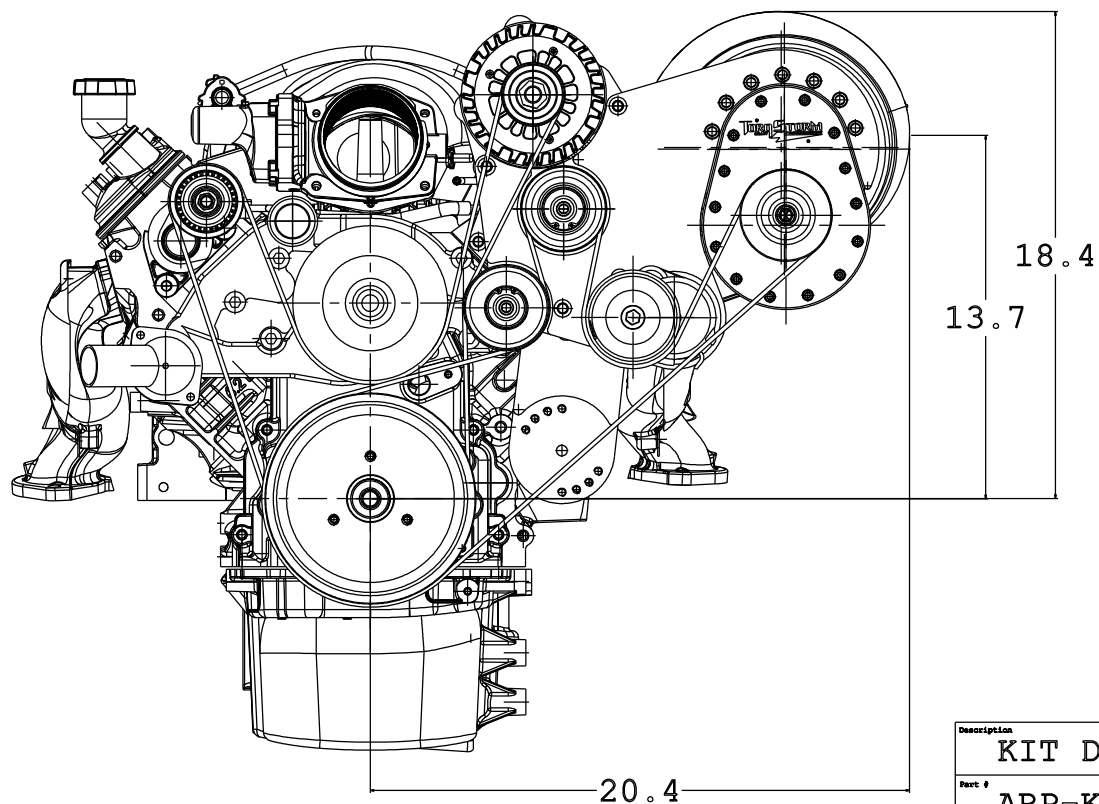
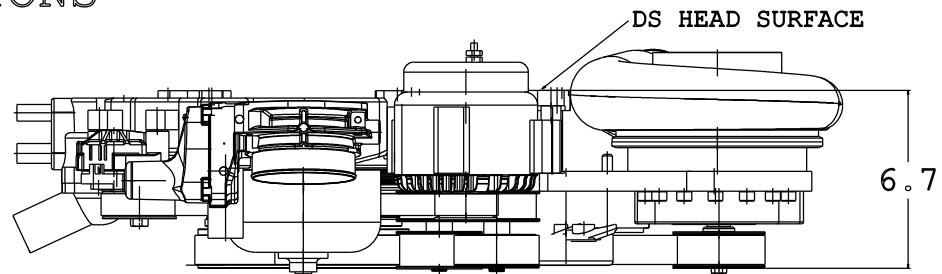
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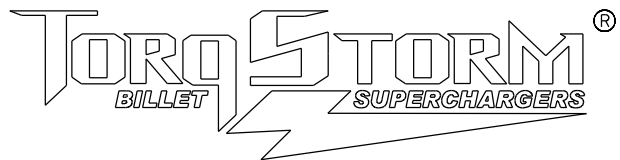
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ALT - W/P - P/S = DAYCO 5060937

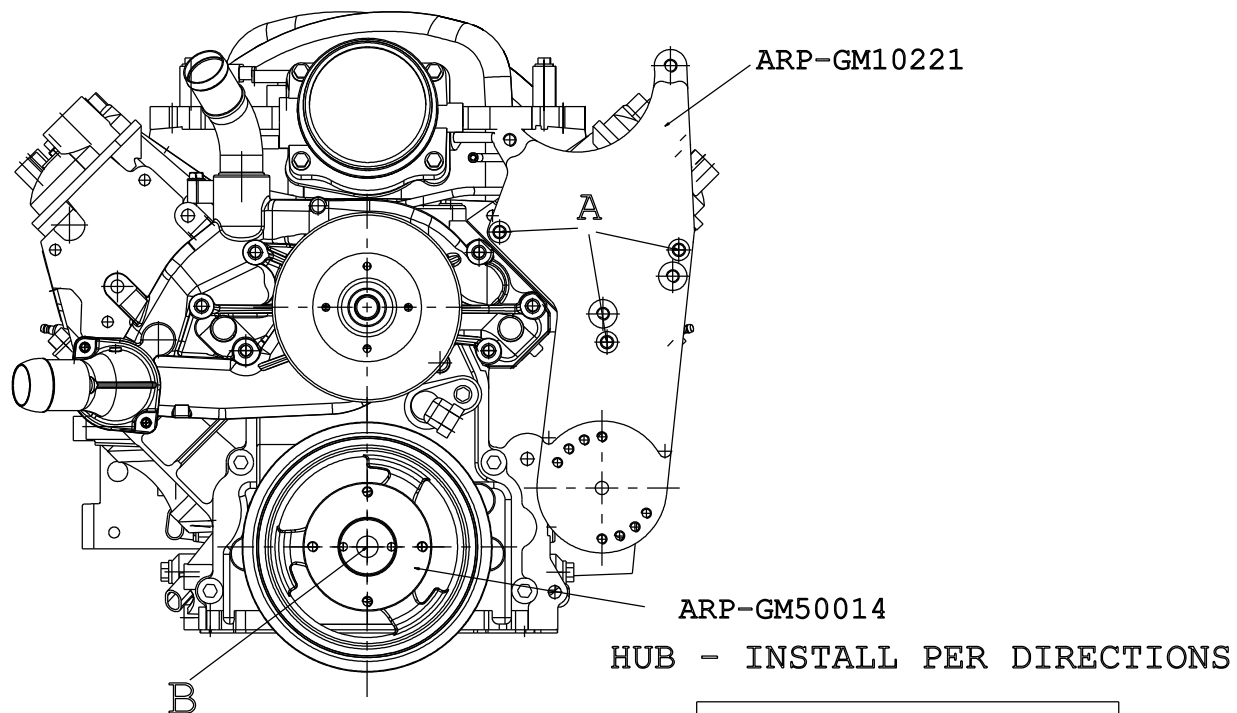
Description
BELT ROUTING
Part #
ARP-K-GM-LS1010


KIT DIMENSIONS



Description	KIT DIMENSIONS
Part #	ARP-K-GM-LS1010
	

HEAD BRACKET LAYOUT

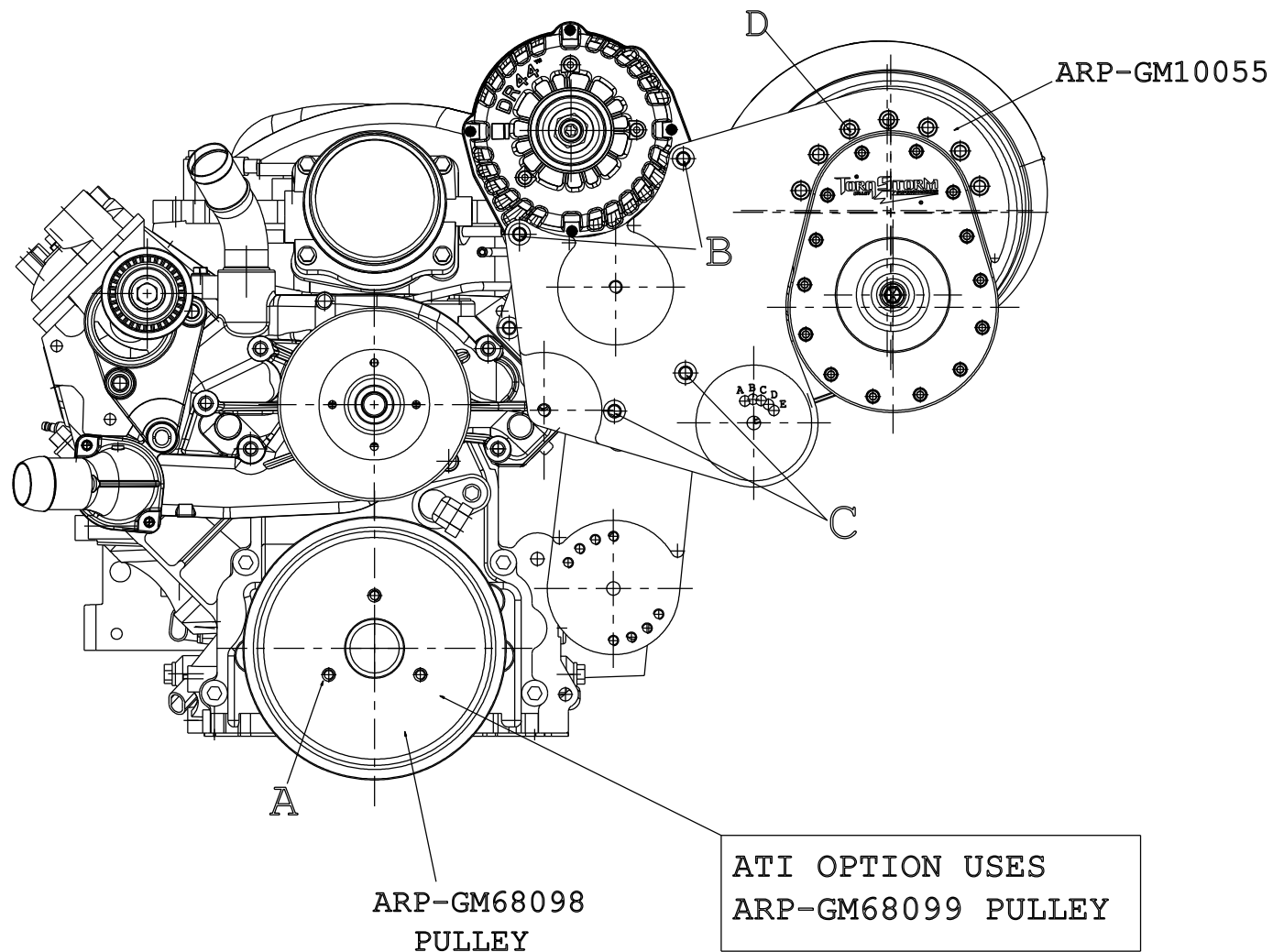


ATI OPTION USES
ATI-918635 DAMPER
INSTALL PER ATI

A = 3 @ M10x1.5 x 25mm SS SHCS
B = 1 @ ARP-GM50029 CRANK BOLT

Description
HEAD BRACKET LAYOUT
Part #
ARP-K-GM-LS1023
TORQSTORM[®] BILLET SUPERCHARGERS

SUPERCHARGER BRACKET LAYOUT



- A = 4 @ 5/16-24 x 3/4 SS HHB
- A = IF ATI OPTION USE ATI FASTNERS
- B = 2 @ M10x1.5 x 105mm SS SHCS
- B = 2 @ ARP-S-100-1290 SPACER
- C = 1 @ M10x1.5 x 100mm SS SHCS
- C = 2 @ ARP-S-75-3125 SPACER
- D = 7 @ 3/8-16 x 1-1/4^{vu} SS SHCS

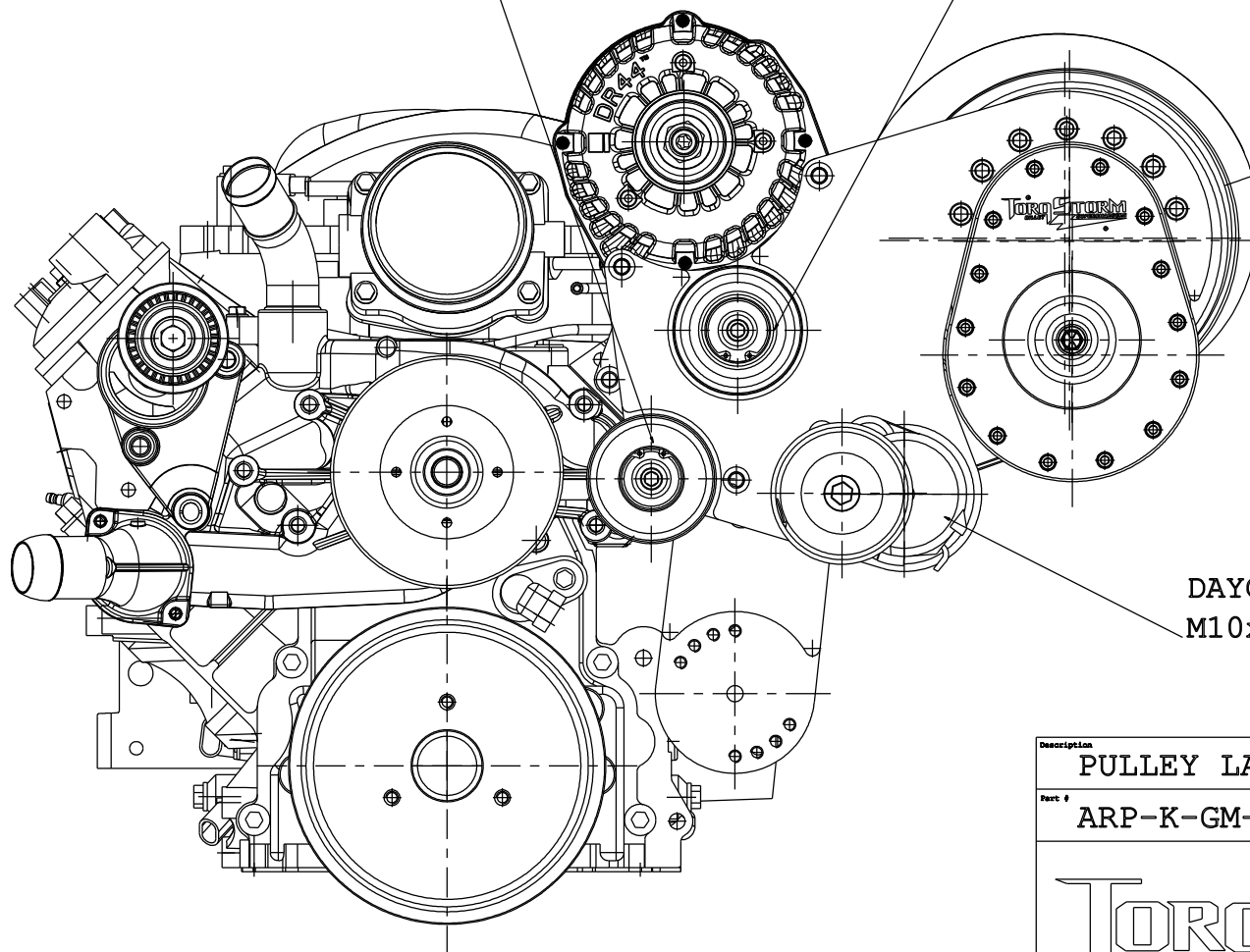
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SUPERCHARGER BRACKET LAYOUT
Part #
ARP-K-GM-LS1023

TORQSTORM[®]
BILLET SUPERCHARGERS

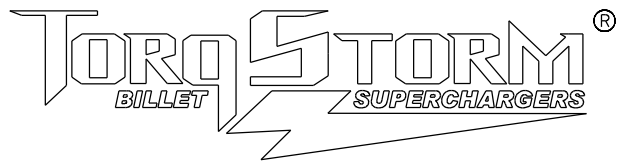
PULLEY LAYOUT

ARP-IS-0525 SPACER
 ARP-50001-N PULLEY
 ARP-FD50097 SPACER
 ARP-50001-A PULLEY
 ARP-50026 WASHER
 M10x1.5 x 90mm SS SHCS

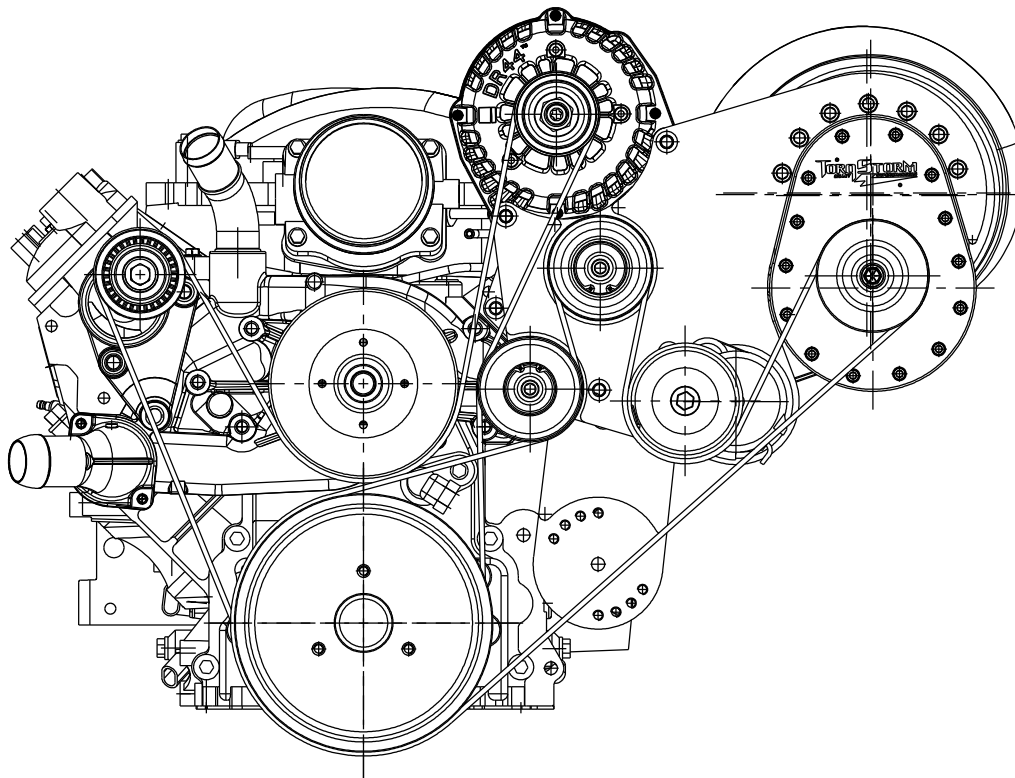
ARP-IS-0525 SPACER
 ARP-50001-N PULLEY
 ARP-FD50097 SPACER
 ARP-50001-M PULLEY
 ARP-50026 WASHER
 M10x1.5 x 90mm SS SHCS



DAYCO 89209 TENSIONER
 M10x1.5 FLANGE NUT

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Part #	ARP-K-GM-LS1023
	

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GATES K080700

3-3/4" PULLEY USES PIN "D" = DAYCO 5080700
GATES K080700

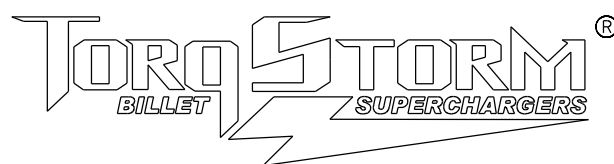
4.000" PULLEYS USE PIN "D" = DAYCO 5080700
GATES K080700

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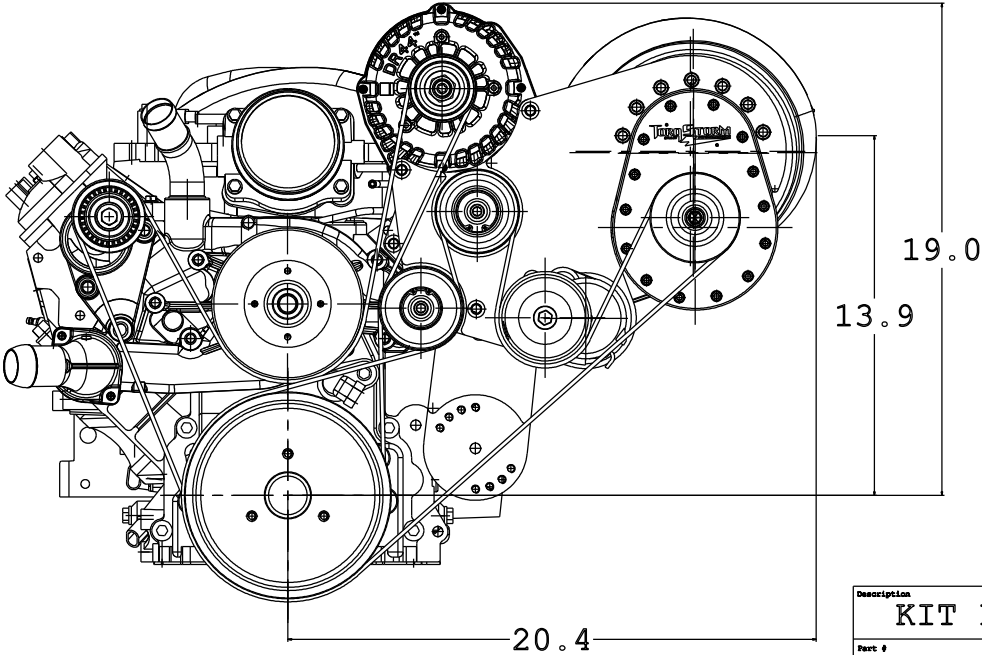
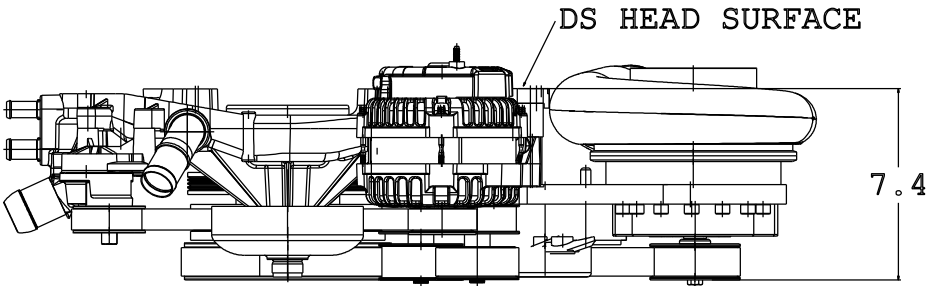
W/P ONLY = DAYCO 5060420

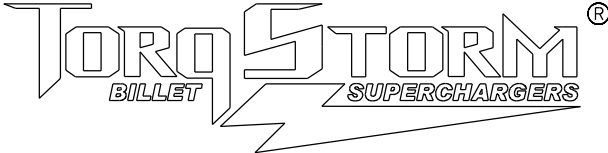
ALT - W/P ONLY = DAYCO 5060695

ALT - W/P - P/S = DAYCO 5060937

Description	BELT ROUTING
Part #	ARP-K-GM-LS1023
	

KIT DIMENSIONS



Description	KIT DIMENSIONS
Part #	ARP-K-GM-LS1023
	

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.