

TORQ STORM[®]

BILLET SUPERCHARGERS



Ford FE 390-428 Single w/ Acc
ARP-K-FD-FE-AC

Installation Instructions

FE 390-428 Single w/Acc
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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



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STEP 2

Install waterpump pulley using
(4) 5/16-18 bolts and
washers.

Tighten to 17 ft. lbs

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

Tighten to 29 ft. lbs



Installation Instructions

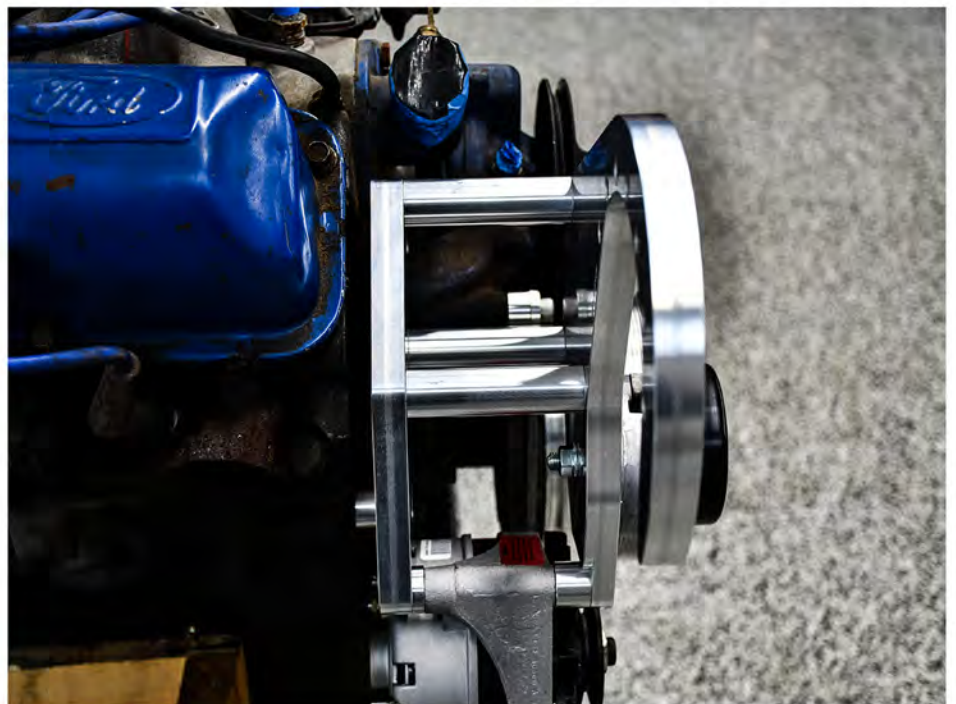
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STEP 3

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.



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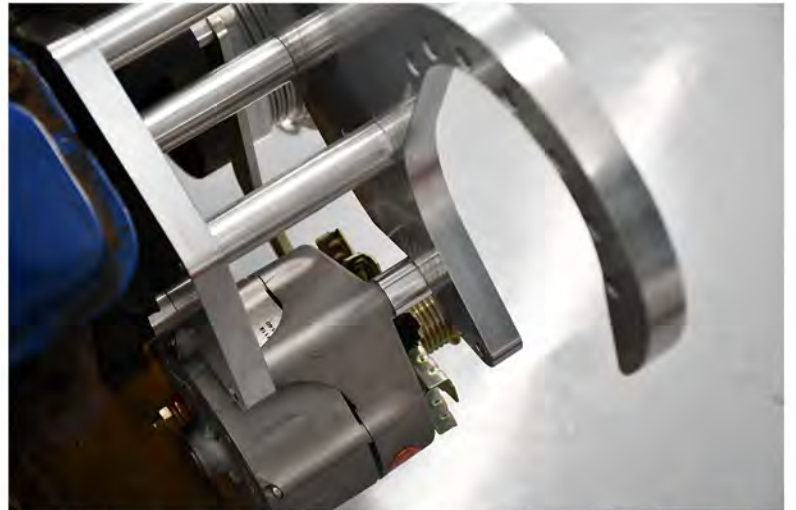
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STEP 4

Install alternator with (1) 3/8-16 x 5" bolt and spacer 1.080" between supercharger bracket and front of alternator.

Do not tighten yet

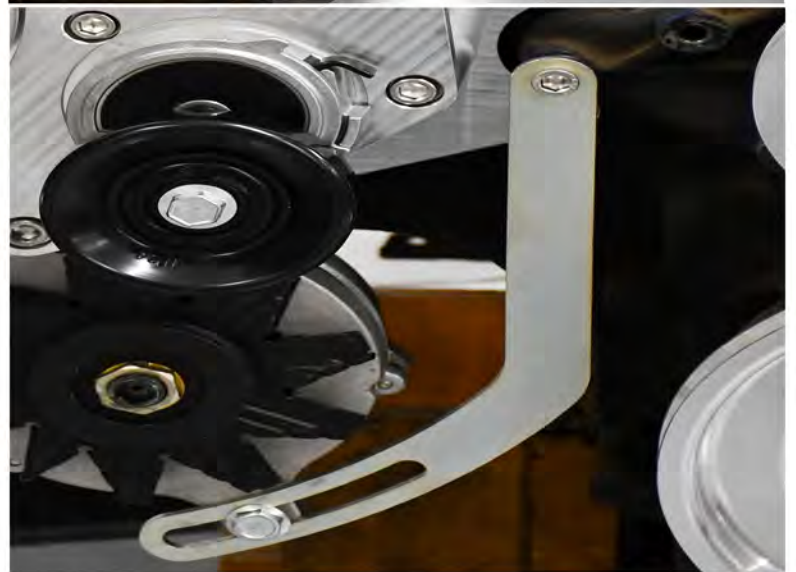


STEP 5

Install alternator "J" bracket. Bolt to waterpump with (1) 3/8-16 x 2.25" bolt and 1.4" 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



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**THIS IS DESIGNED FOR FACTORY
DIPSTICK TUBE MOUNTING.**

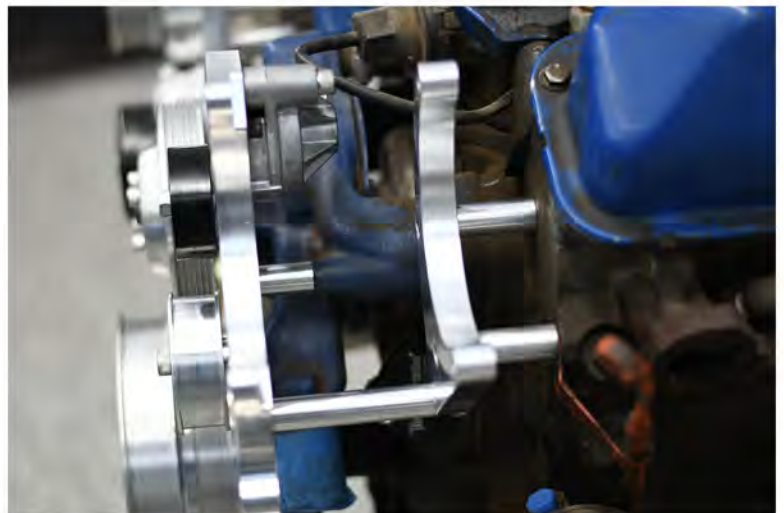
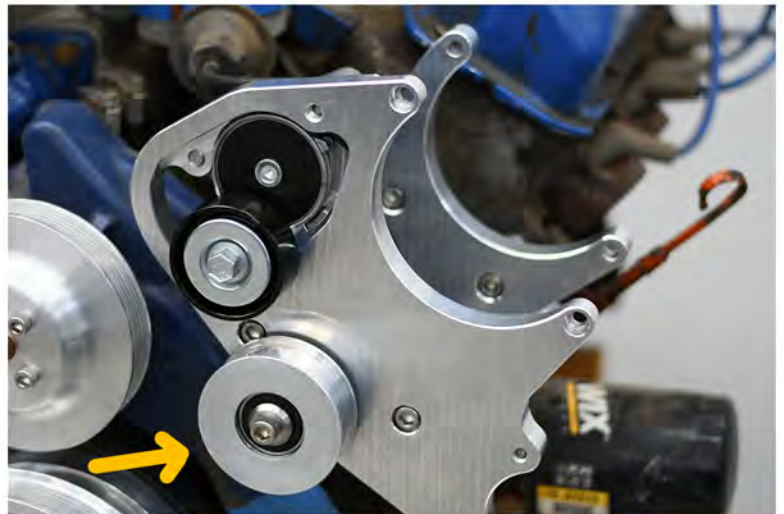
STEP 6

Install drivers side head plate using
(2) 3/8 x 2.5" bolts and 1.8" spacer on
the hole to the left, and a 1.760" spacer
between the bracket and dipstick mounting
tab.

Tighten to 29 ft. lbs.

STEP 7

Temporarily remove the idler pulley ----->
Install the front bracket using
(1) 3/8-16 x 2" and 1.250" spacer
between the bracket and
waterpump. (1) 3/8-16 x 4.5" bolt and 3.5"
spacer between the brackets.



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STEP 8

Install ac compressor using (2) m8 x 20mm bolts on the front. (2) m8 x 40mm bolts and nuts on the back.



Tighten to 18 ft. lbs

Tighten the other 3/8 bolts in the brackets to 29 ft. lbs.

STEP 9

Install the power steering pump using (2) 5/16 x 3" bolts.



Tighten to 17 ft. lbs



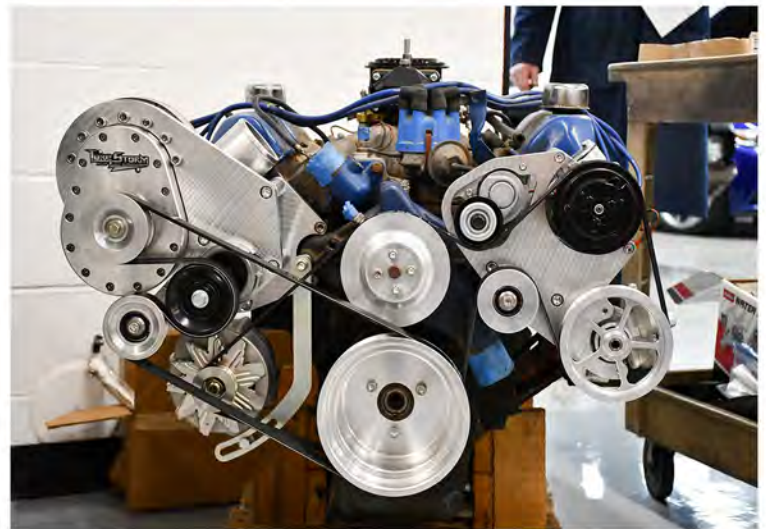
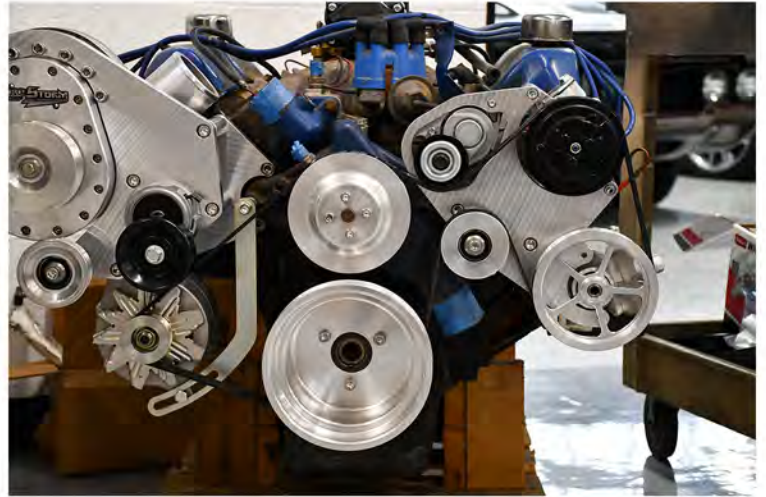
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STEP 10

Install the Supercharger head unit using (7) 3/8 x 1.25" bolts and washers. Then install accessory belt. There is adjustment in the alternator bracket. Position the tensioner so that it the travel is in the midpoint or better. Install supercharger belt.



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STEP 11

Install supercharger air filter.



STEP 12

Install carb hat and charge tube. The couplers are purposely long to accommodate 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 13

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



Step 14



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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- *Replace all spark plugs with one or two heat ranges cooler.*
- *Fuel/ Ignition management 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.

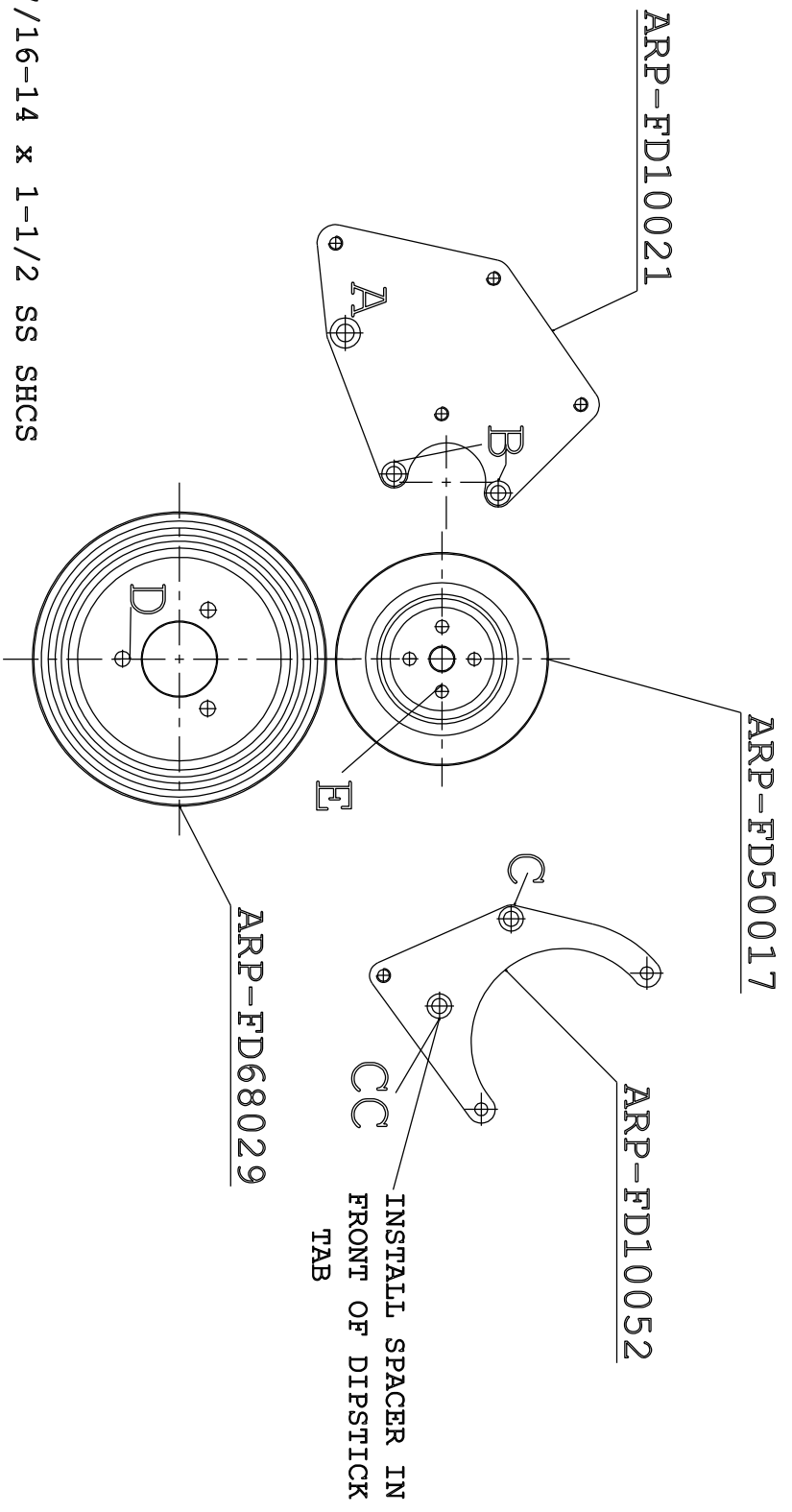
- PLEASE TAKE SPECIAL NOTE: Operating the vehicle without all the sub assemblies completed and properly installed and working may cause FAILURE OF MAJOR ENGINE COMPONENTS.

- 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

HEAD BRACKET LAYOUT



ARP-FD10021

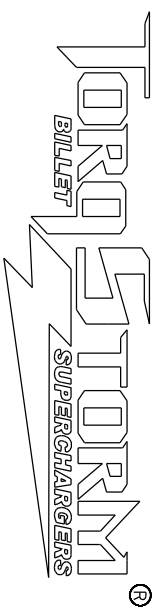
ARP-FD50017

ARP-FD10052

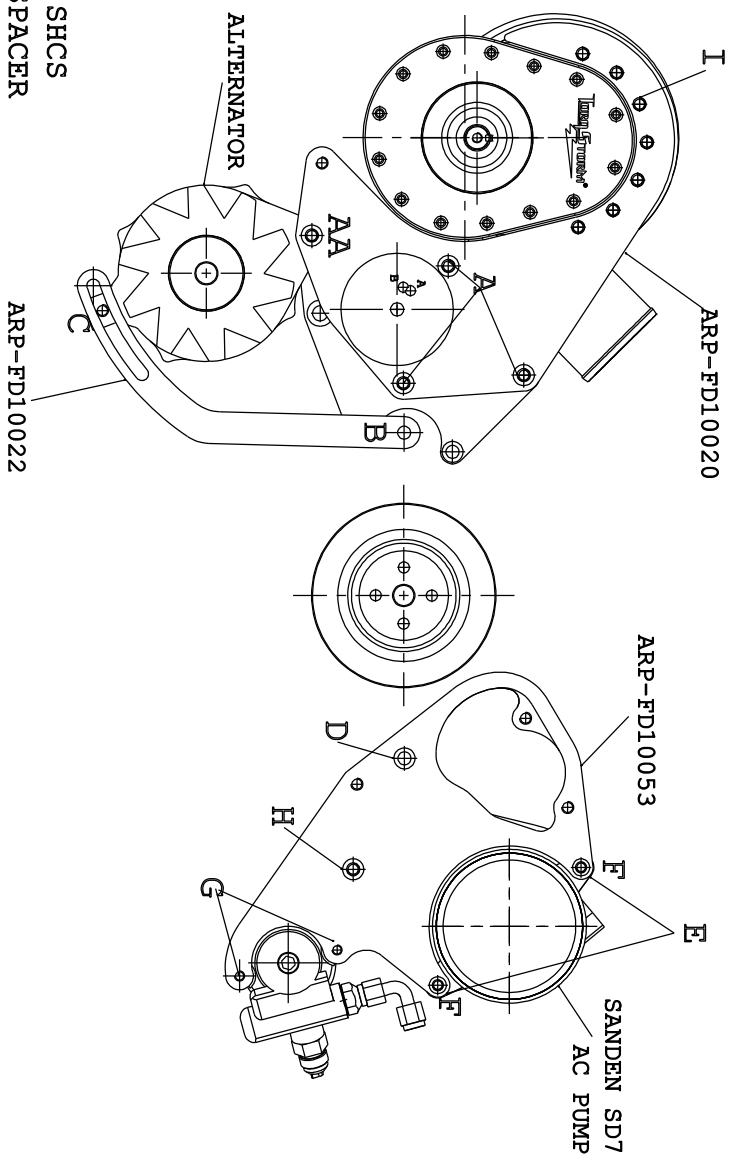
ARP-FD68029

- A = 1 @ 7/16-14 x 1-1/2 SS SHCS
- A = 1 @ ARP-S-150-0615 SPACER
- B = 2 @ 3/8-16 x 1-1/4 SS SHCS
- C = 1 @ 3/8-16 x 2-3/4 SS SHCS
- C = 1 @ ARP-S-75-1800 SPACER
- CC = 1 @ 3/8-16 x 2-3/4 SS SHCS
- CC = 1 @ ARP-S-75-1760 SPACER (FRONT OF DIPSTICK MOUNT)
- D = 3 @ 3/8-16 x 1.0 SS SHCS
- E = 4 @ 5/16-24 x 3/4 SS SHCS

DESCRIPTION
HEAD BRACKET LAYOUT
Part # ARP-K-FD-FE-AC

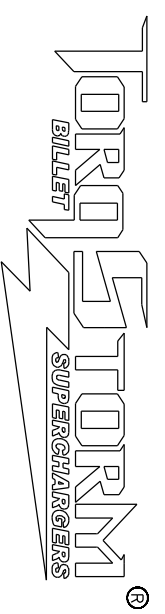


FRONT BRACKETS LAYOUT

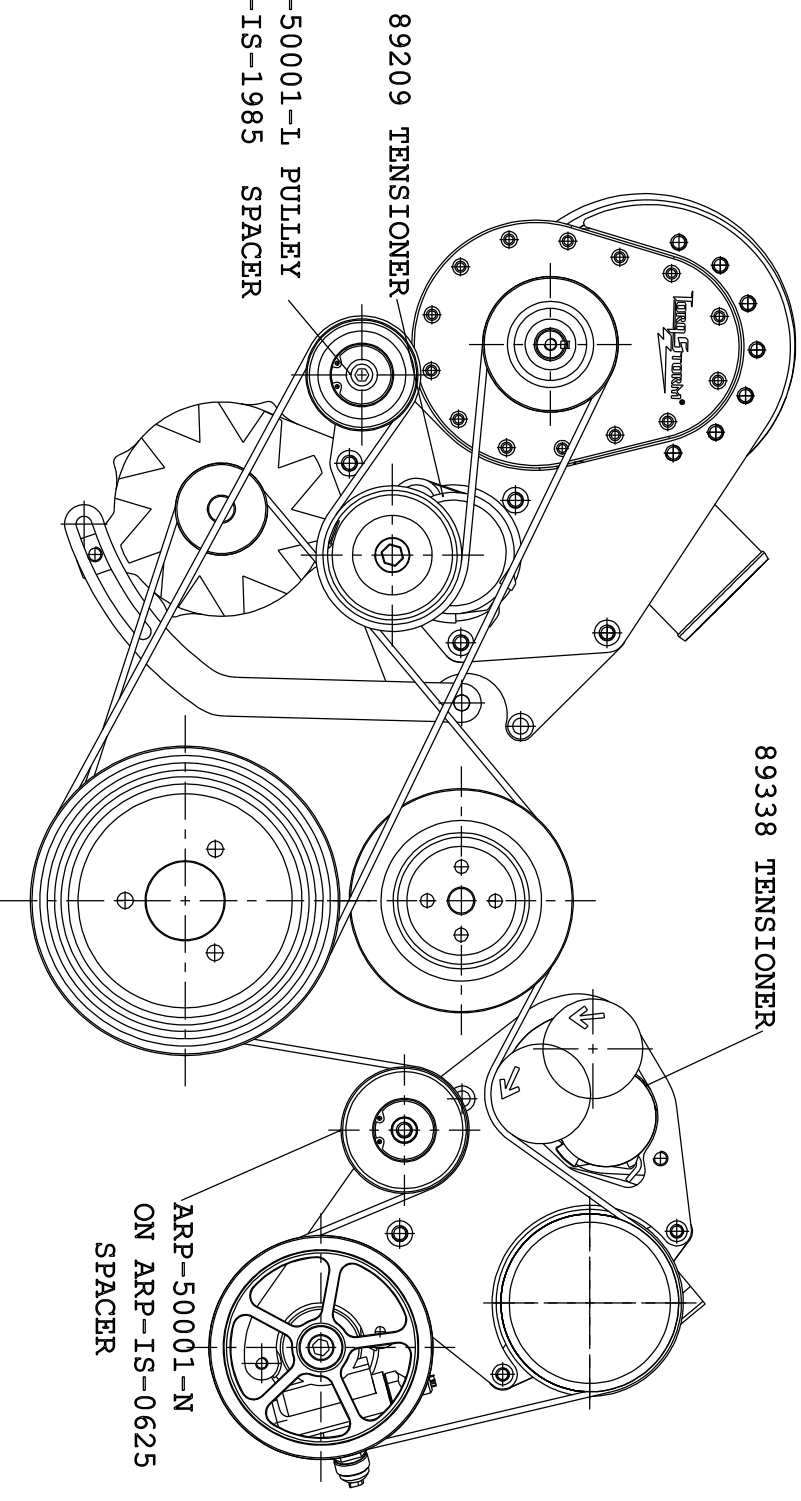


- A = 3 @ 3/8-16 x 5.0 SS SHCS
- A = 3 @ ARP-S-100-3860 SPACER
- AA = 1 @ 3/8-16 x 5.0 SS SHCS
- AA = 1 @ ARP-S-100-1080 SPACER
- B = 1 @ 3/8-16 x 2-1/4 SS SHCS
- B = 1 @ ARP-S-75-1400 SPACER (BEHIND ARM)
- C = 1 @ 3/8-16 x 1.0 SS HEX FLANGE BOLT
- D = 1 @ 3/8-16 x 2.0 SS SHCS
- D = 1 @ ARP-S-75-1250 SPACER
- E = 2 @ M8x1.25 x 40mm SS SHCS WITH NUT (BACK)
- F = 2 @ M8x1.25 x 20mm SS SHCS (FRONT)
- G = 2 @ 5/16-18 x 3.0 SS SHCS
- H = 1 @ 3/8-16 x 4-1/2 S SHCS
- H = 1 @ ARP-S-75-3500 SPACER
- I = 7 @ 3/8-16 x 1-1/4 SS SHCS

Manufactured in
FRONT BRACKETS LAYOUT
Part #
ARP-K-FD-FE-AC



BELT ROUTING



ARP-50001-L PULLEY
 ARP-IS-1985 SPACER

89338 TENSIONER

ARP-50001-N
 ON ARP-IS-0625
 SPACER

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

ACCESSORY BELT
 DAYCO 5060760
 GATES K060760

Part #
BELT ROUTING
 ARP-K-FD-FE-AC

