

TORQ STORM[®]

BILLET SUPERCHARGERS



Small Block Ford Twin
ARP-K-FD-3022X
ARP-K-FD-3512X

Installation Instructions

SBF Twin supercharger kit

ARP-K-FD-3022X

ARP-K-FD-3512X



****IMPORTANT** MUST USE DR SIDE
OUTLET REVERSE ROTATION W/P.
WILL NOT WORK WITH MECHANICAL
FUEL PUMP. IF YOUR NOT USING A
MECHANICAL OIL PRESSURE SENSOR
AND MOUNTING IT DIRECTLY TO THE
BLOCK, THEN THE OIL PRESSURE
SENSOR NEEDS REPOSITIONED.**



STEP 1

Mount the supercharger head bracket
(drivers side) using
(3) 7/16-14 x 3/4" bolts.
Torque to 39 ft. lbs.



STEP 2

Mount the power steering pump using
(2) 5/16-18 x 2 3/4" bolts.
Torque to 17 ft lbs

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STEP 3

Mount the waterpump pulley using (4) 5/16 -24 x 3/4 bolts and AN washers.

Torque to 29 ft. lbs.



STEP 4

Mount the crank pulley using (4) 3/8-16 x 1.0 bolts and AN washers.

Torque to 29 ft. lbs



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STEP 5

Mount the drivers side supercharger bracket using (2) 3/8-16 x 6.5" bolts and (2) 1" x 5.6" spacers between the two brackets.

Do not torque until after step 6

Remove the idler pulley for a later step

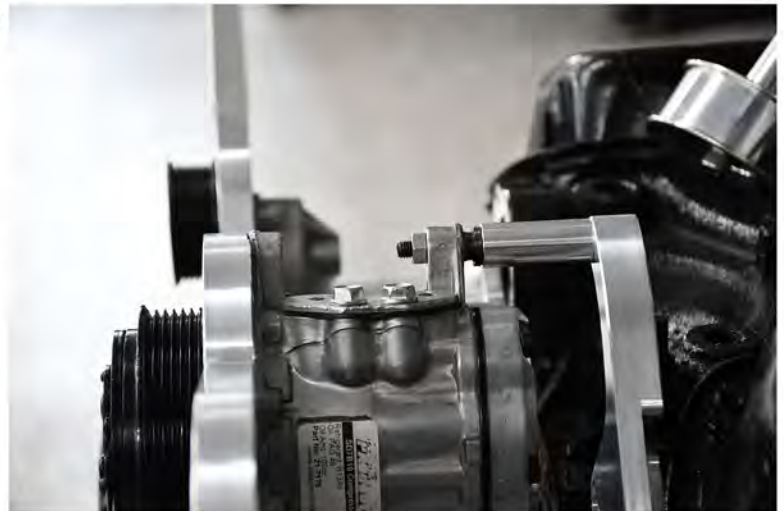


STEP 6

Mount the ac compressor using (2) M8X1.25 X 30MM" bolts on the front, and (1) M8X1.25 X 90MM bolt and nut with a 1.8" spacer on the back ear of the compressor. You may need to push out the sleeve in the compressor to meet with the spacer length before tightening the bolt.

Tighten to 19 ft lbs

Tighten 3/8 bracket bolts to 29 ft lbs



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STEP 6

Mount the passenger side bracket using (2) 3/8-16 x 3/4" bolts. And (1) 7/16-14 x 3/4" bolt in the upper left hole.

Torque to 29 ft lbs



STEP 7

Install the supercharger bracket. First remove the tensioner to access mounting bolt holes. (4) 3/8 x 5.5" bolts and (3) 4.675" spacers between the brackets, and (1) 1.76" after the alternator is installed.



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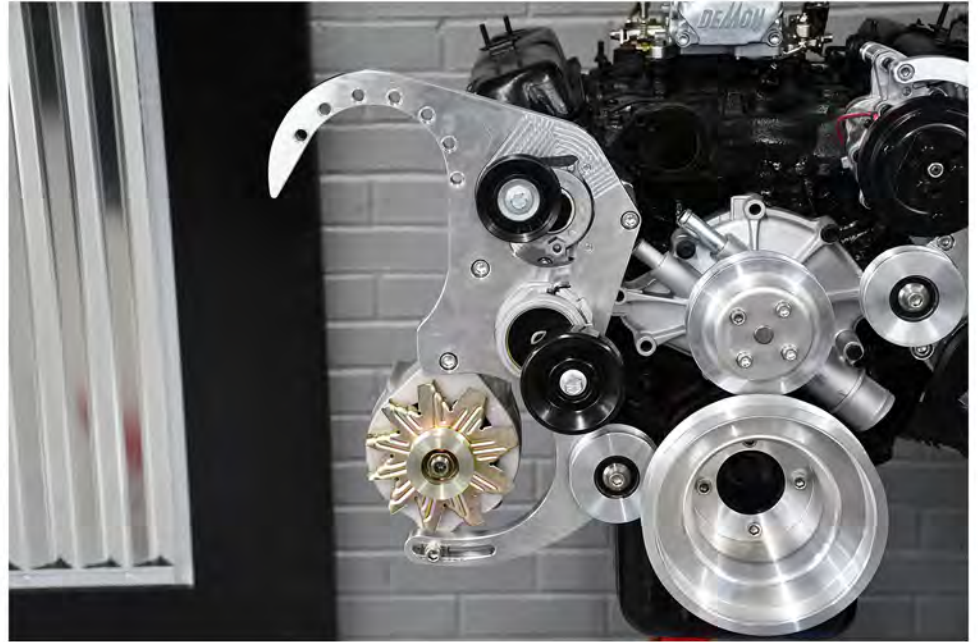
STEP 8

Mount the alternator using (1) of the 3/8 x 5.5" bolts and the (1)1.76" spacer.

On the lower alternator tab that goes on the adjustment part of the bracket goes (1) 3/8 x 1.5" bolt and washer.

Tighten 3/8" bolts to 29ft lbs

Do not tighten bottom bolt until it is time to put the accessory belt on.



STEP 9

Mount both superchargers using (7) 3/8 x 1 1/4" bolts ea.

Torque to 29 ft. lbs.



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STEP 10

Re-install the idler pulley

Torque to 29 ft. lbs.



STEP 11

*Install the supercharger carb
hat. Make sure the o-ring is
seated properly in the base.*

*Set the carb stud to the correct
height and tighten the nut using
a 3/4" wrench.*

The nut only requires a snug fit.

Do not overtighten.



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STEP 12

Install the accessory belt.
tighten the alternator in the best
position so that the tensioner
rest in the middle of the swing.

*Torque lower alternator bolt
to 19 ft lbs.*



STEP 13

Install the supercharger belt.
Using a 15mm wrench turn the
tensioner clockwise and slide
the belt over the pulley. Be sure
it is seated properly on all
pulleys.



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STEP 14

Loosen the v-band clamp on compressor housing and rotate to desired location and plumb your charge piping to your carb hat. Tighten clamps, do not over tighten, or you could possibly stretch the clamp. You only need it to get where the housing isn't able to rotate. Roughly 1/2" of thread showing.



STEP 15

Install both air filters and tighten all clamps.



STEP 16

Weld both Bov nipples onto your plumbing. Install the bov's, tighten set screws. Hook bov's to a good vacuum source below carb blades using supplied vacuum line.

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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.*

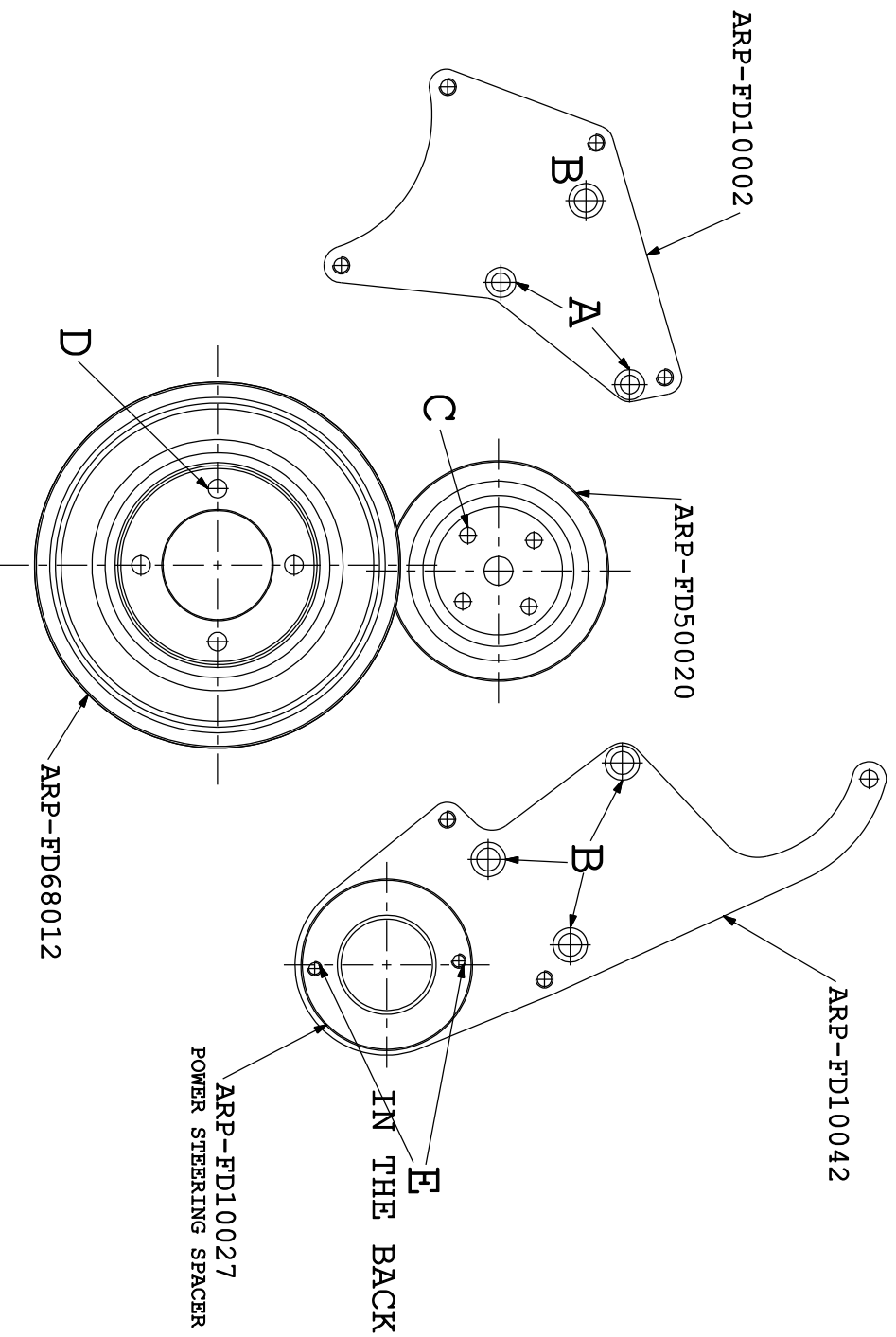
Failure to do so may affect your limited lifetime warranty.



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*

HEAD BRACKET LAYOUT

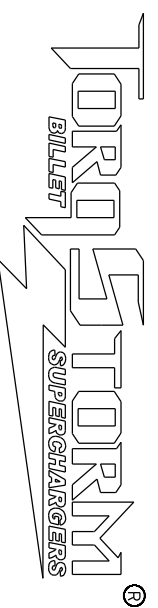


- A = 2 @ 3/8-16 x 1.0 SS SHCS
- B = 4 @ 7/16-14 x 1.0 SS SHCS
- C = 4 @ 5/16-24 x 3/4 SS SHCS
- D = 4 @ 3/8-16 x 1.0 SS SHCS
- E = 2 @ 5/16-18 X 1.0 SS SHCS

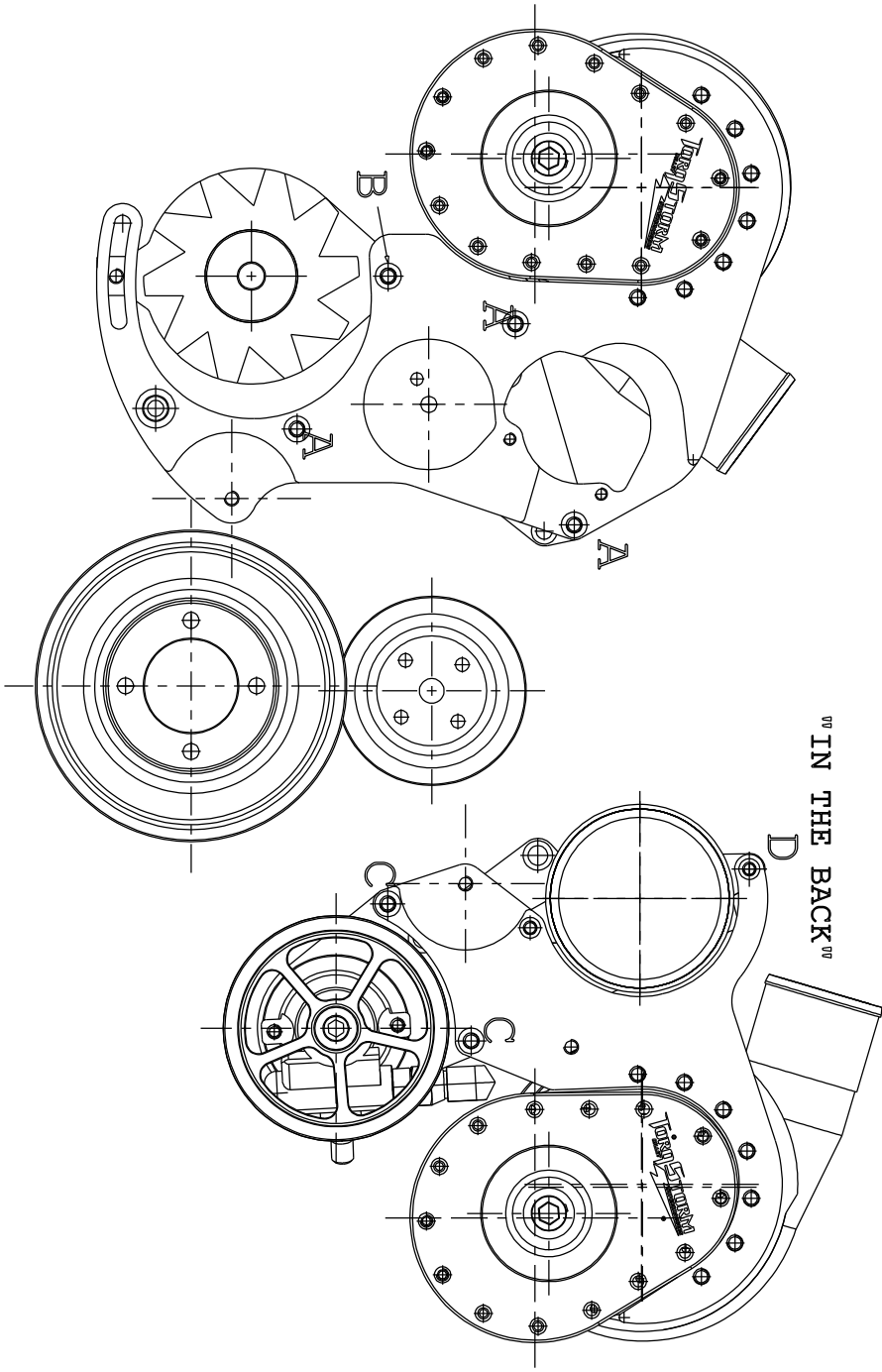
06/08/2018

Manufacture
HEAD BRACKET LAYOUT

Part #
ARP-K-FD-302-2X



SPACER LAYOUT

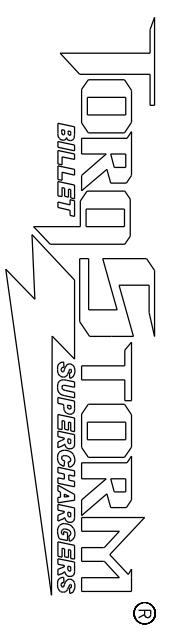


- A = 3 @ ARP-S-75-4675
 - B = 1 @ ARP-S-75-1760
 - C = 2 @ ARP-S-75-5600
 - D = 1 @ ARP-S-75-1800
- ⁰⁰ BEHIND ALTERNATOR ⁰⁰
⁰⁰ BEHIND REAR EAR OF PUMP ⁰⁰

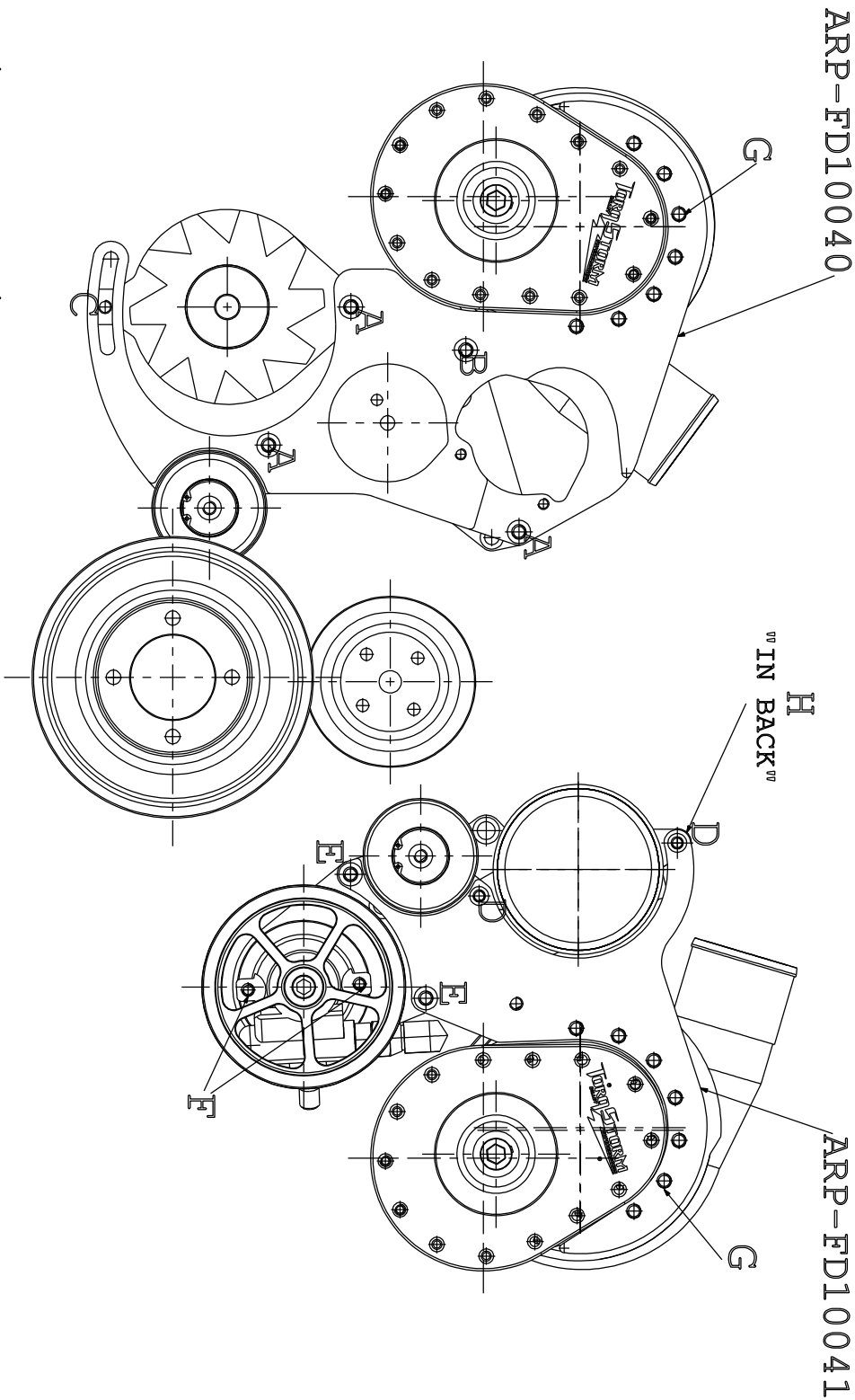
Manufacturing

SPACERS LAYOUT

Part # ARP-K-FD-302-2X



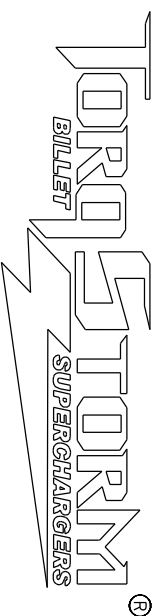
SUPERCHARGER BRACKETS LAYOUT



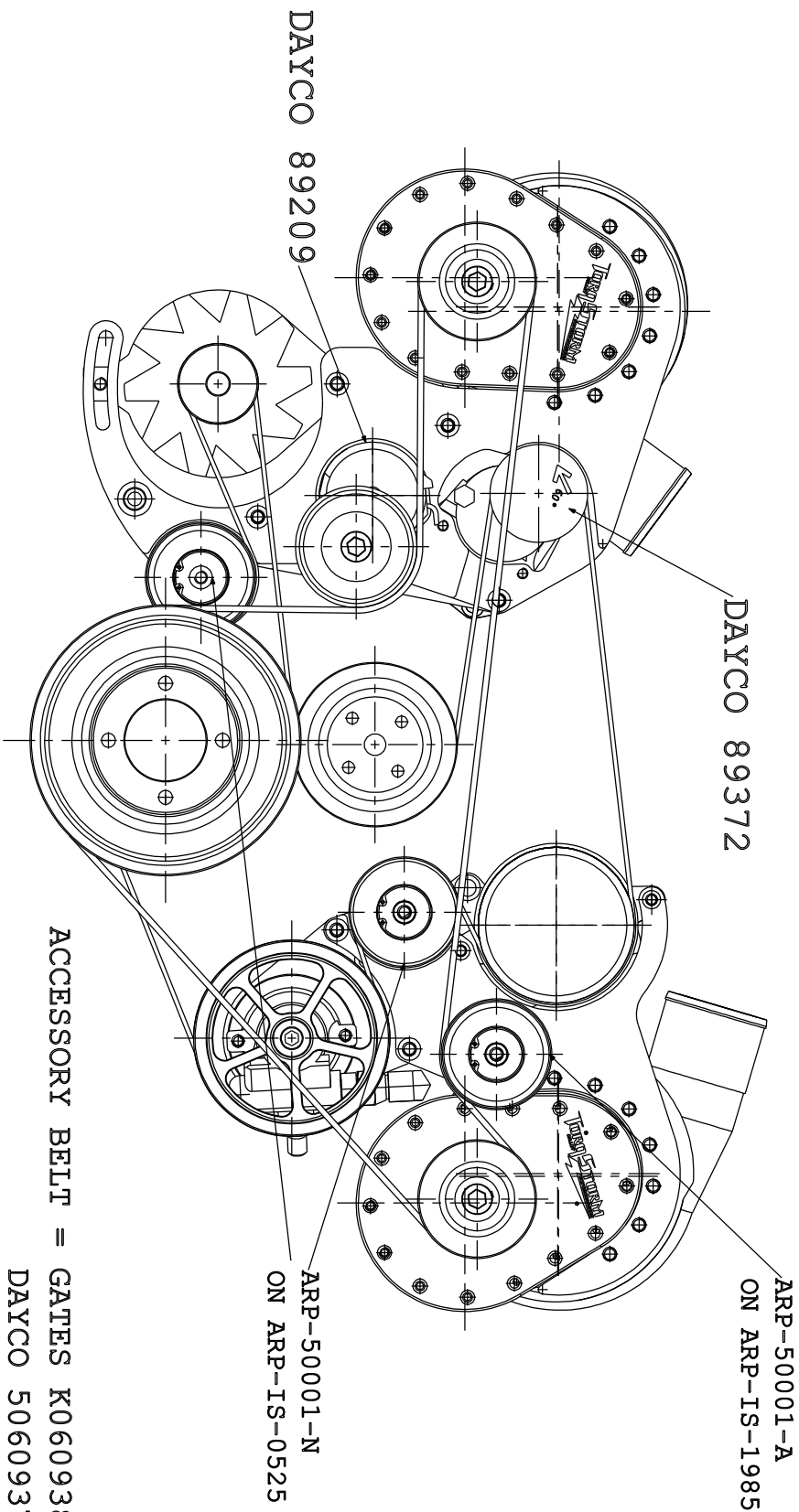
A =	3 @	3/8-16	x	5-1/2	SS	SHCS
B =	1 @	3/8-16	x	5-1/2	SS	SHCS
C =	1 @	3/8-16	x	1-1/2	HH	FLANGE BOLT
D =	2 @	M8x1.25	x	30mm	SS	SHCS
E =	2 @	3/8-16	x	6-1/2	SS	SHCS
F =	2 @	5/16-18	x	2-3/4	SS	SHCS
G =	14 @	3/8-16	x	1-1/4	SS	SHCS
H =	1 @	M8x1.25	x	90mm	SS	SHCS AND NUT

Manufactured by
SUPERCHARGER BRACKETS LAYOUT

Part #
ARP-K-FD-302-2X



BELT ROUTING DIAGRAM



3.1 DIA SC PULLEY USES BELT = GATES K080751
DAYCO 5080750

3-1/4 DIA SC PULLEY USES BELT = GATES K080755
DAYCO 5080755

3-1/2 DIA SC PULLEY USES BELT = GATES K080765
DAYCO 5080765

4.0 DIA SC PULLEY USES BELT = GATES K080776
DAYCO 5080775

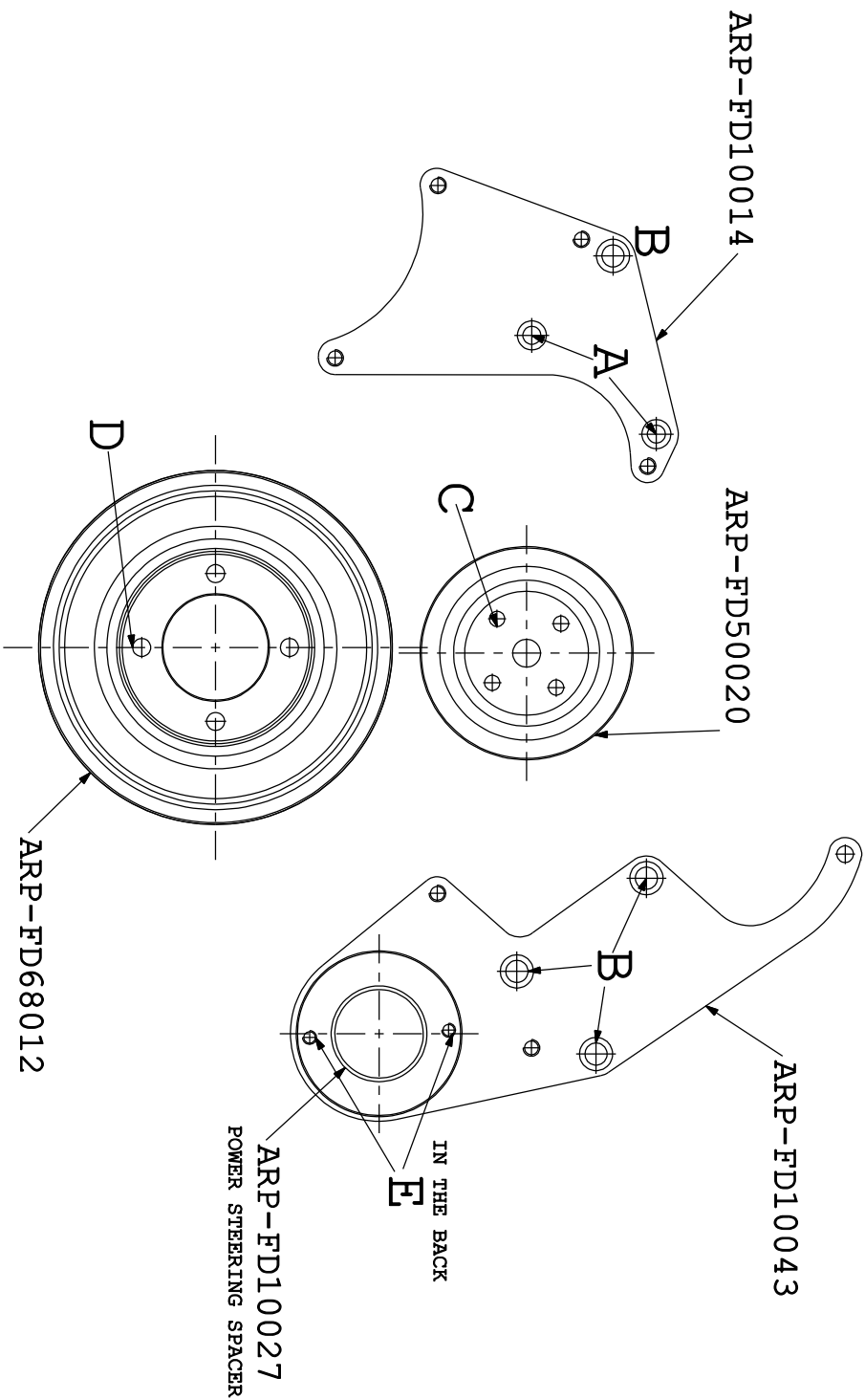
ACCESSORY BELT = GATES K060938
DAYCO 5060937

Manufacture
Belt Routing Diagram

Part # ARP-K-FD-302-2X

TORO STORM
BILLET
SUPERCHARGERS

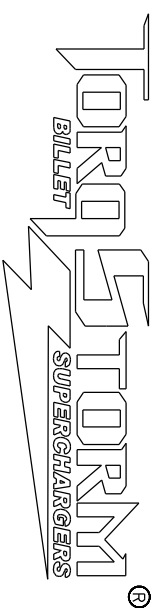
HEAD BRACKET LAYOUT



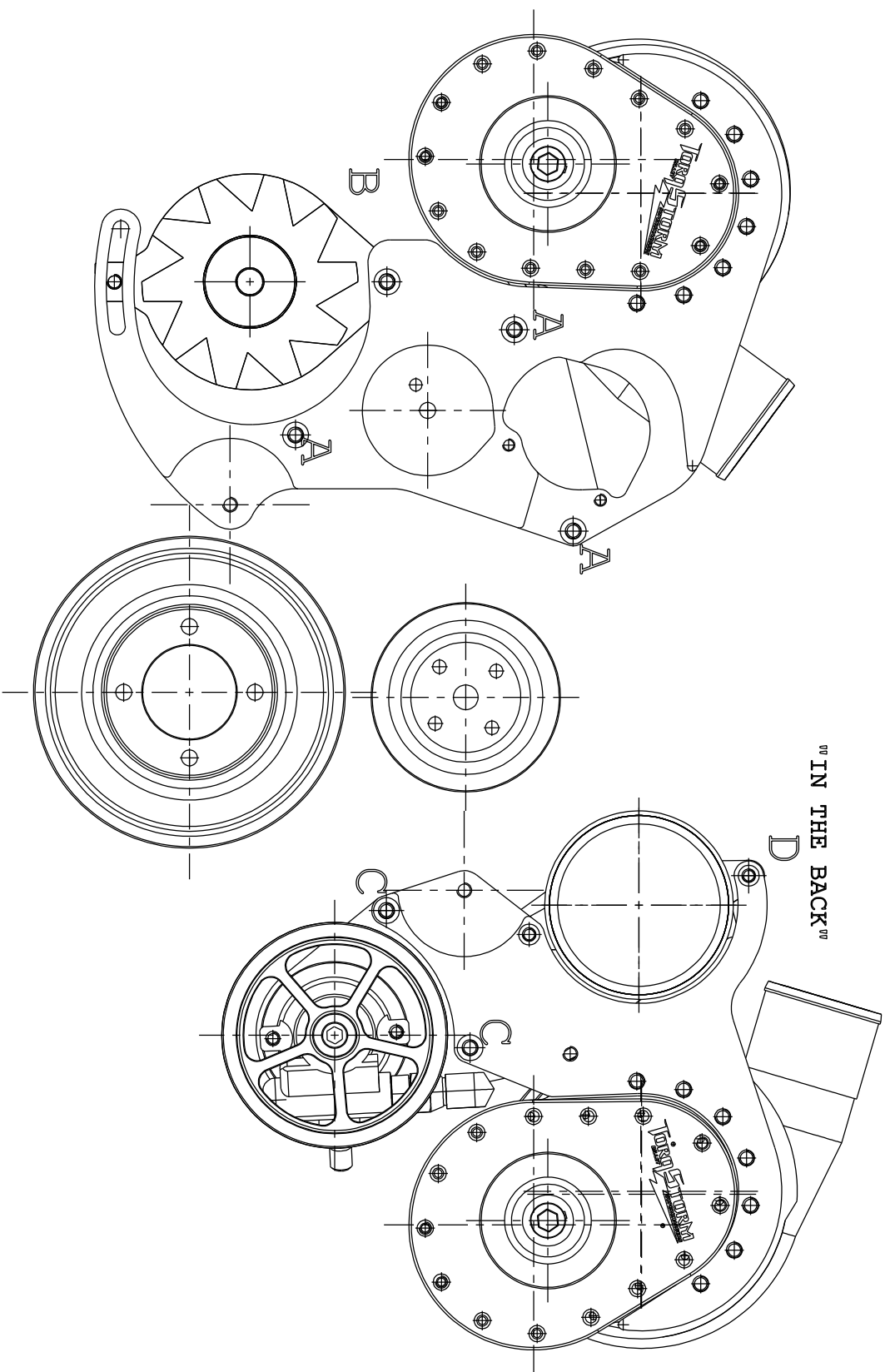
- A = 2 @ 3/8-16 x 1.0 SS SHCS
- B = 4 @ 7/16-14 x 1.0 SS SHCS
- C = 4 @ 5/16-24 x 3/4 SS SHCS
- D = 4 @ 3/8-16 x 1.0 SS SHCS
- E = 2 @ 5/16-18 x 1.0 SS SHCS

06/08/2018

Description
HEAD BRACKET LAYOUT
Part #
ARP-K-FD-351-2X



SPACERS LAYOUT



00 IN THE BACK 00

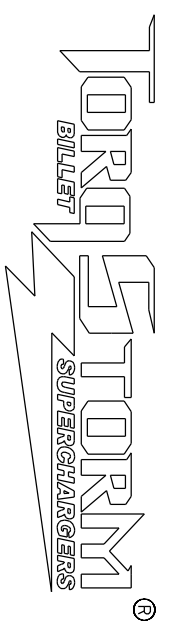
- A = 3 ARP-S-75-4675
- B = 1 ARP-S-75-1760
- C = 2 ARP-S-75-5600
- D = 1 ARP-S-75-1800

00 BEHIND ALTERNATOR 00

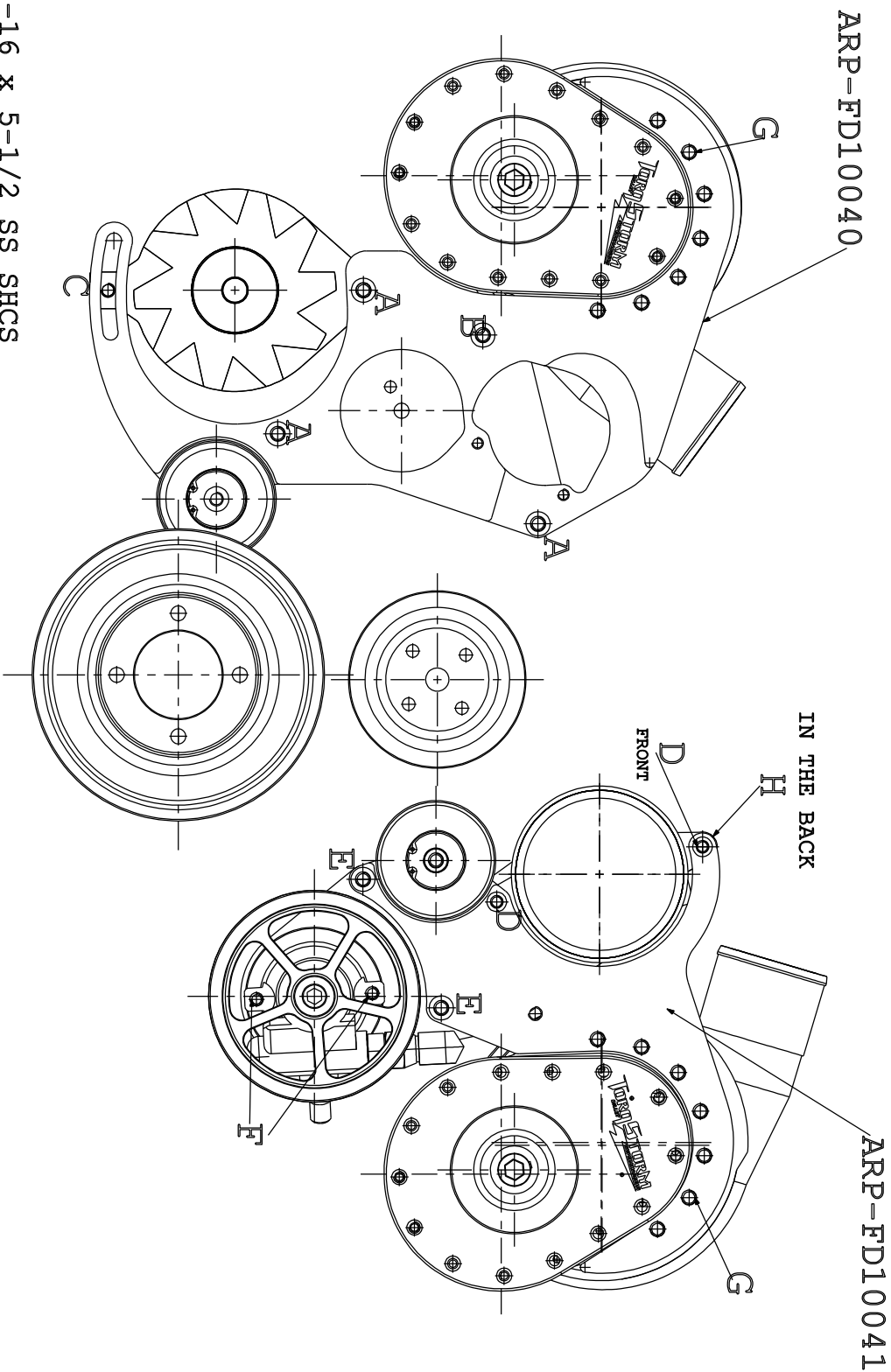
00 BEHIND REAR EAR OF PUMP 00

Manufacturing
SPACERS LAYOUT

Part # ARP-K-FD-351-2X



SUPERCHARGERS BRACKET LAYOUT

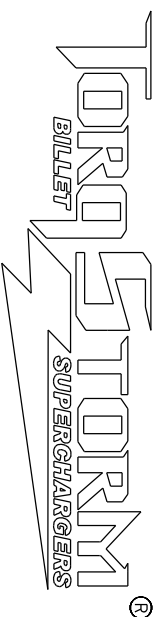


- A = 3 @ 3/8-16 x 5-1/2 SS SHCS
- B = 1 @ 3/8-16 x 5-1/2 SS SHCS
- C = 1 @ 3/8-16 x 1-1/2 SS HH FLANGE BOLT
- D = 2 @ M8x1.25 x 30mm SS SHCS
- E = 2 @ 3/8-16 x 6-1/2 SS SHCS
- F = 2 @ 5/16-18 x 2-3/4 SS SHCS
- G = 14 @ 3/8-16 x 1-1/4 SS SHCS
- H = 1 @ M8x1.25 x 90mm SS SHCS AND NUT

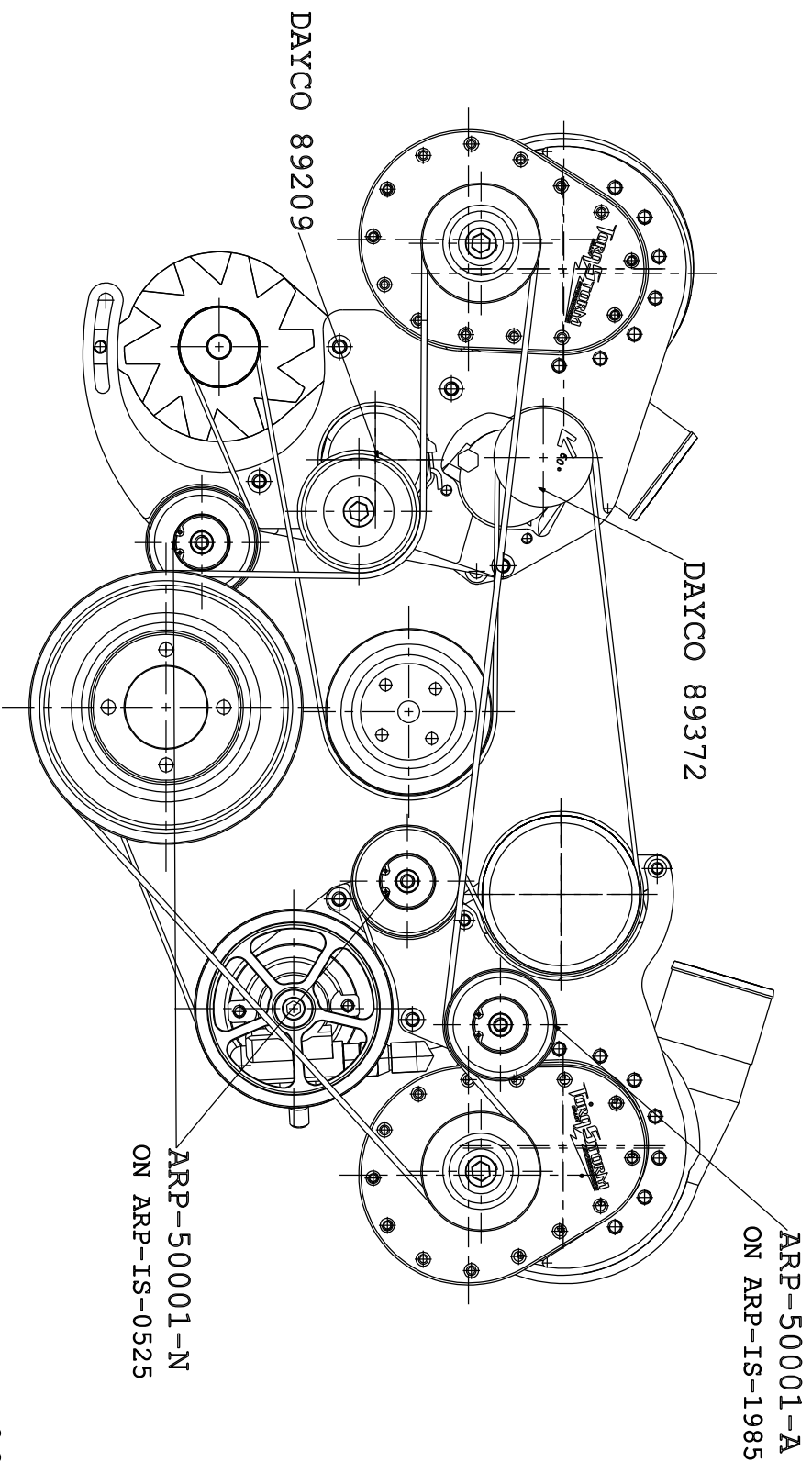
06/08/2018

Manufactured by
SUPERCHARGERS BRACKET LAYOUT

Part #
ARP-K-FD-351-2X



BELT ROUTING DIAGRAM



3.1 DIA SC PULLEY USES BELT = GATES K080751
DAYCO 5080750

ACCESSORY BELT = GATES K060950
DAYCO 5060950

3-1/4 DIA SC PULLEY USES BELT = GATES K080760
DAYCO 5080760

3-1/2 DIA SC PULLEY USES BELT = GATES K080765
DAYCO 5080765

4.0 DIA SC PULLEY USES BELT = GATES K080780
DAYCO 5080780

MANUFACTURED BY
ARP-K-FD-351-2X
BILTET
BELT ROUTING DIAGRAM

