

TORQ STORM[®]

BILLET SUPERCHARGERS



FORD 351W SUPERCHARGER KIT
ARP-K-FD-351V

Installation Instructions

FORD 302 APR-K-FD-302-V



VERIFY THAT YOU HAVE THE CONTENTS ON THE CHECKLIST BEFORE STARTING THE INSTALLATION PROCESS.
FAMILIARIZE YOURSELF WITH THE BOLT/SPACER LOCATION DIAGRAMS AND BELT ROUTING DIAGRAM.
CONTACT US WITH ANY QUESTIONS. 616-706-5580 or sales@torqstorm.com

STEP 1

Mount the super-charger head bracket (ARP-FD10002) to the passenger's side cylinder head using 2) 3/8"-16 x 1.0" SS SHCS and 1) 7/16-14 x 1.0" SS SHCS.

Tighten bracket to 29 FT/LBS.



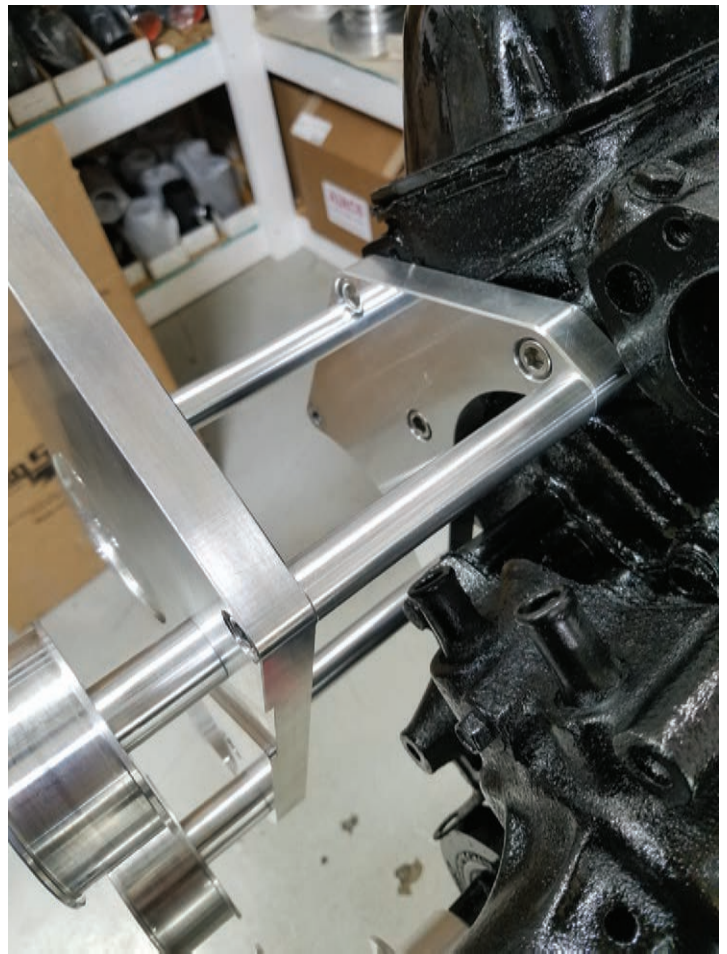
Installation Instructions

FORD 302 APR-K-FD-302-V



STEP 2

Mount the supercharger bracket (ARP-FD10013) with 3) 3/8"-16 x 5.75" SS SHCS and 3) ARP-S-75-4675 Spacers. **Leave hand tight until step 3.**



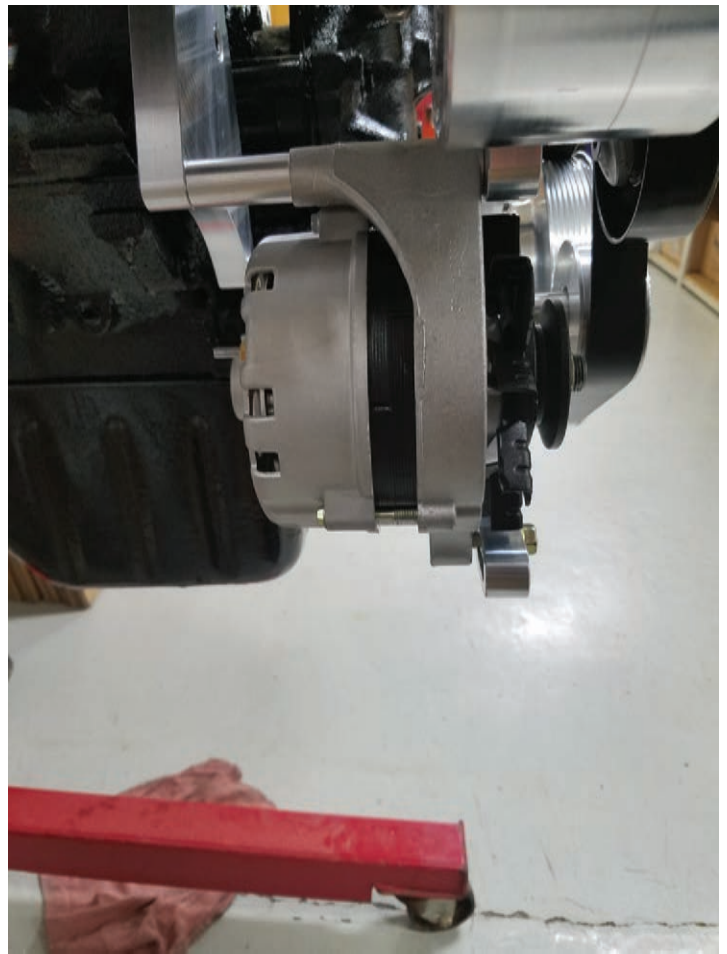
Installation Instructions

FORD 302 APR-K-FD-302-V



STEP 3

Install alternator and spacer ARP-S-75-1675 with 1) 3/8"-16 x 5.75" SS SHCS in CZ mounting hole in S/C bracket. **Tighten all 4 S/C bracket bolts to 29 FT-LBS.** Install alternator adjustment bolt (D).



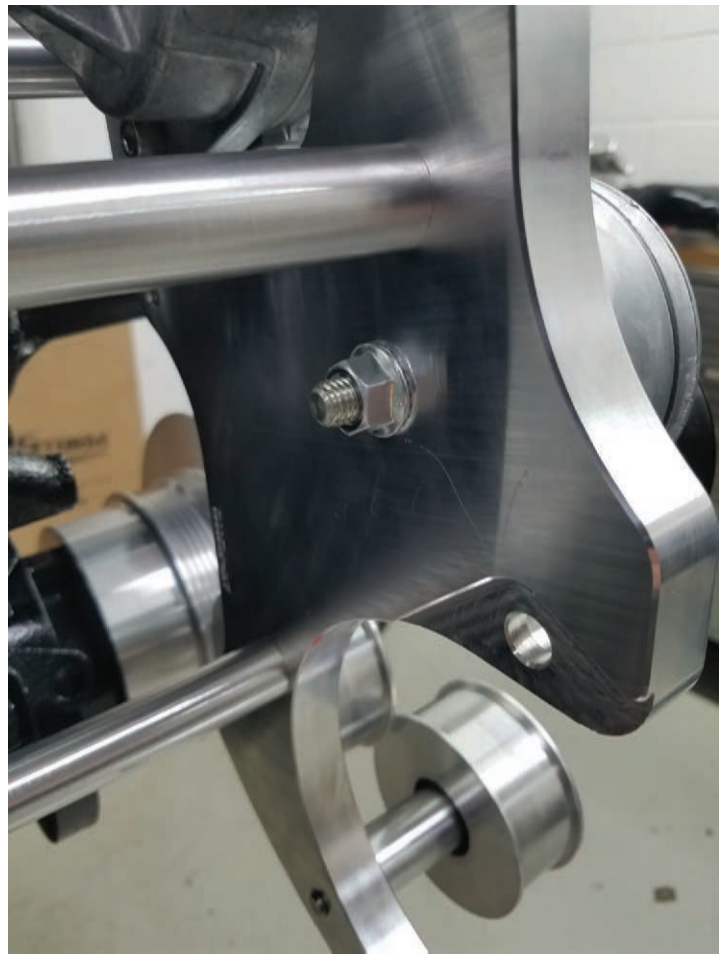
Installation Instructions

FORD 302 APR-K-FD-302-V



STEP 4

Install #89209 automatic belt tensioner onto S/C Bracket. **Tighten tensioner nut on the rear of the bracket to 29 FT-LBS.**



Installation Instructions

FORD 302 APR-K-FD-302-V



STEP 5

Mount crank pulley
(ARP-FD68025) with
4) 3/8"-16 x 1.0" SS
SHCS. **Tighten to
spec: 29 FT-LBS.**



Installation Instructions

FORD 302 APR-K-FD-302-V



STEP 6

Mount the SC to the bracket using the 7) 3/8" x 1.25 SHCS with AN washers. **Tighten to spec: 29 FT-LBS.**

Adjust the super-charger outlet for plumbing alignment prior to mounting on bracket. Loosen the V-band clamp to move and **retighten to 75 IN-LBS.**



Installation Instructions

FORD 302 APR-K-FD-302-V



STEP 7

Route K080530 serpentine belt per supplied belt routing diagram. Move tensioner to position into proper location.



Installation Instructions

FORD 302 APR-K-FD-302-V



STEP 8

Install 3" silicone boot on S/C outlet, connect to tubing with BOV valve bung. Use silicone 3" to 3.5" to carb hat with supplied clamps. Adjust and tighten. Make sure you are using the supplied O-ring in between the carb hat and carb. **Note: you may need to trim silicone hoses for best fit.**



Installation Instructions

FORD 302 APR-K-FD-302-V



STEP 9

Hook up BOV to manifold vacuum source.



STEP 10

Install air filter on supercharger inlet.
Adjust and **tighten clamp to 75 IN-LBS.**



STEPS:

11. Replace all spark plugs with one or two steps colder heat range.
12. Reset total timing to stock factory specs minus 1.0* to 1.5* for every pound of boost or install a boost retard ignition. Always listen for any sign of detonation (pinging) and discontinue hard use (no boost) until problem is resolved. For best results we recommend using the MSD boost timing ignition control products for your supercharged ignition needs.
13. Reconnect battery.
14. Check all fittings, nuts, bolts and clamps. Make sure all wires and lines are properly secured with clamps or wire ties.
15. Make sure fuel tank is filled with 91 octane or higher fuel.
16. Start engine and allow to idle a few minutes then shut off.
17. Recheck to be sure that no hoses, wires, ect are near the exhaust headers or moving parts and for signs of any fluid leakage. Recheck ignition timing to make sure it is properly set before commencing test drive.
18. After test drive recheck for leaks and recheck belt tension.
19. Change your oil in the supercharger, every 10,000 miles or once a year. Failure to run TorqStorm® approved oil will void the warranty. Order direct from Torqstorm® PART NO. ARP-OIL-MTL
20. Fill out warranty card and send in 30 days from purchase date or warranty may be effected.



CONGRATS!

You have now completed the installation of your TorqStorm® Supercharger kit. Please read and heed the following notes and warnings for the best possible performance from your TorqStorm® Supercharger.

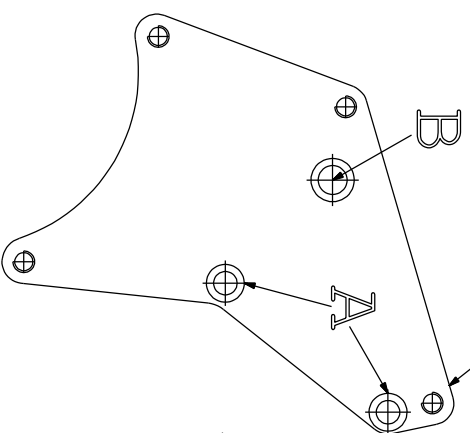
NOTES & WARNINGS

- **TorqStorm® Billet Superchargers come from the factory filled with 6oz of ARP-OIL-MTL. Super-charger is ready to run.**
- Torqstorm® Supercharger Kits are designed to use Carbs set up for blow-thru operation along with many EFI Throttle body options.
- We also recommend using a HIGH PERFORMANCE electric fuel pump with boost reference fuel pressure regulator for carb applications.
- Use a wide band O2 sensor to verify a proper air/fuel ratio. We suggest 11.0:1 / 12.0:1 for 91 octane pump fuel.
- **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.

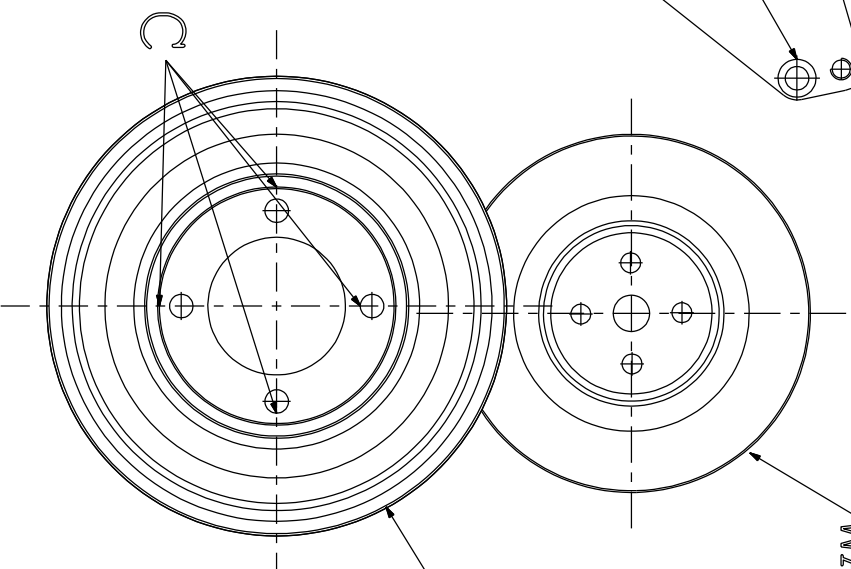
Have fun and send us a picture of your ride!

HEAD BRACKET LAYOUT

ARP-ED10002



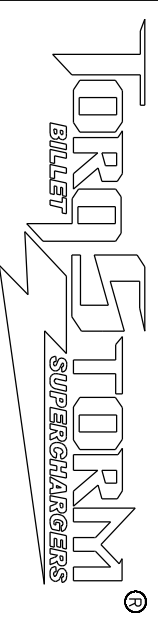
WATERPUMP PULLEY



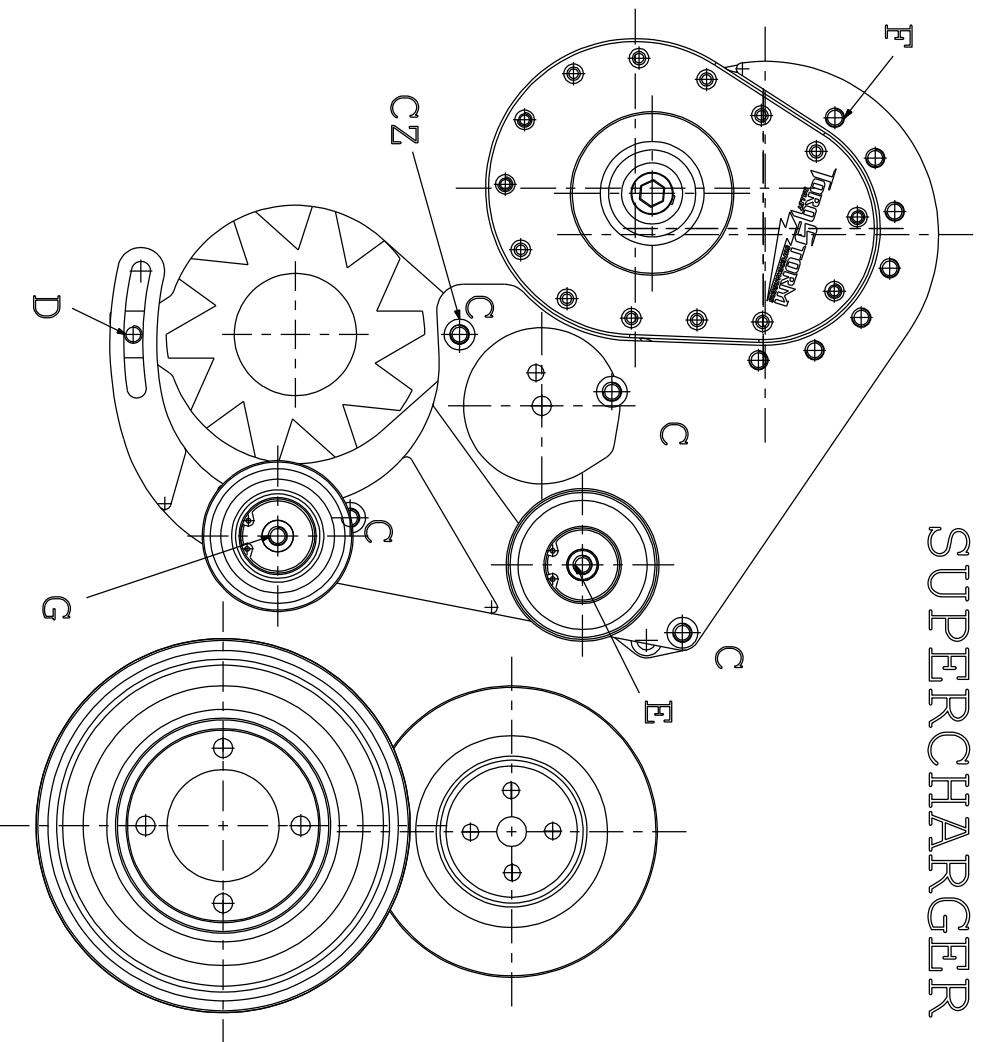
ARP-ED68025

A = 2	@ 3/8-16	x 1.0	SS	SHCS
B = 1	@ 7/16-14	x 1.0	SS	SHCS
C = 4	@ 3/8-16	x1.0	SS	SHCS

DESCRIPTION	HEAD BRACKET LAYOUT
DATE	ARP-K-FD-302-V



SUPERCARGER BRACKET LAYOUT



SPACERS

C = 3 @ ARP-S-75-4675
 CZ = 1 @ ARP-S-75-1675 (BEHIND ALTERNATOR)
 E = 1 @ ARP-IS-1985
 G = 1 @ ARP-IS-1985

BOLTS

C = 4 @ 3/8-16 x 6.0 SS SHCS
 D = 1 @ 3/8-16 x 1-1/2 SS SHCS
 E = 1 @ 3/8-16 x 3-1/2 SS SHCS
 F = 7 @ 3/8-16 x 1-1/4 SS SHCS
 G = 1 @ 3/8-16 x 3-1/2 SS SHCS

Part #
 SUPERCHARGER BRACKET LAYOUT

ARP-K-FD-302-V

