

FOREWORD

This manual provides information on the installation, maintenance and service of the Vortech supercharger kit expressly designed for this vehicle. All information, illustrations and specifications contained herein are based on the latest product information available at the time of this publication. Changes to the manual may be made at any time without notice. Contact Vortech Engineering for any additional information regarding this kit and any of these modifications at (805) 247-0226 7:00am-3:30pm PST.



Take note of the following before proceeding:

1. Proper installation of this supercharger kit requires general automotive mechanic knowledge and experience. Please browse through each step of this instruction manual prior to beginning the installation to determine if you should refer the job to a professional installer/technician. Please contact your dealer or Vortech Engineering for possible installers in your area.

- 2. This product was designed for use on stock (un-modified, OEM) vehicles. The PCM (computer), engine, transmission, drive axle ratios and tire O.D. must be stock. If the vehicle or engine has been modified in any way, check with Vortech prior to installation and use of this product.
- **3.** Use only premium grade fuel with a minimum of 91 octane (R+M/2).
- **4.** Always listen for any sign of detonation (*knocking/pinging*) and discontinue hard use (*no boost*) until problem is resolved.
- 5. Vortech is not responsible for any clutch, transmission, drive-line or engine damage.

Exclusions from Vortech warranty coverage considerations include, but not limited to:

- 1. Neglect, abuse, lack of maintenance, abnormal operation or improper installation.
- 2. Continued operation with an impaired vehicle or sub-system.
- 3. The combined use of Vortech components with other modifications such as, but not limited to, exhaust headers, aftermarket camshafts, nitrous oxide, third party PCM programming or other such changes.

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GM LS SWAP CARBURETED; PASS. SIDE MOUNT

Installation Instructions

Congratulations on selecting the best performing and best backed automotive supercharger available today... the VORTECH® supercharger!

Before beginning this installation, please read through this entire instruction booklet and the Street Supercharger System Owner's Manual which includes the Limited Warranty Program, the Warranty Registration form and return envelope.

Vortech supercharger systems are performance improving devices. In most cases, increases in torque of 30-35% and horsepower between 35-45% can be expected with the boost levels specified by Vortech Engineering. This product is intended for use on healthy, well maintained engines. Installation on a worn-out or damaged engine is not recommended and may result in failure of the engine as well as the supercharger. Vortech Engineering is not responsible for engine damage.

Installation on new vehicles will not harm or adversely affect the break-in period so long as factory break-in procedures are followed.

For best performance and continued durability, please take note of the following key points:

- 1. Use only premium grade fuel 91 octane or higher (R+M/2).
- 2. The engine must have stock compression ratio.
- 3. If the engine has been modified in any way, check with Vortech prior to using this product.
- 4. Always listen for any sign of detonation (pinging) and discontinue hard use (no boost) until problem is resolved.
- 5. Oil-Fed Units Only: Perform an oil and filter change upon completion of this installation and prior to test driving your vehicle. Thereafter, always use a high grade SF rated engine oil or a high quality synthetic, and change the oil and filter at least every 3,000 miles. Never attempt to extend the oil change interval beyond 3,000 miles, regardless of oil manufacturer's claims as potential damage to the supercharger may result.
- 6. Before beginning installation, replace all spark plugs that are older than 1-year or 15,000 miles with original heat range plugs as specified by the manufacturer and reset timing to factory specifications (follow the procedures indicated within the factory repair manual and/ or as indicated on the factory underhood emissions tag). Do not use platinum spark plugs unless they are original equipment. Change spark plugs every 20,000 miles.

TOOL & SUPPLY REQUIREMENTS

- 3/8" socket and drive set: SAE & metric
- 1/2" socket and drive set: SAE & metric
- Adjustable wrench
- Channel Locks
- Open end wrenches: 3/8", 7/16", 1/2", 9/16"
- Open end 3/4" tappet wrench or slim 3/4" wrench
- Screwdriver set
- Red Loctite
- Blue Loctite



If it has been 15,000 miles or more since your vehicle's last spark plug change, then you will also need:

- Spark plug socket
- NEW spark plugs



IMPORTANT: Before beginning installation, verify that all parts are included in the kit. Report any shortages or dam-

QTY.

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7/16-14 X 7.50 HXHD GR8 ZINC 7A437-750 1 M10 X 1.5 X 30 HXHD CL10.9 M10 X 1.50 X 120 HXHD, CL10.9 ZN 7C010-030 22 7C010-120 7F437-008 7/16-14 NYLOCK NUT, HXHD FLNG 1 WASHER, M10 FLÁT, ZN PLT 7J010-002 4 3/8 AN960 FLAT WASHER PLATED 7K375-040 9 4GX116-020 DRIVE ASSY, 10-RIB, LS SWAP, GM 1 SPACER, IDLER SMALL 2A017-024 2A041-630 BELT, K100630 GATES 10-RIB SPACER, CRANK PULLEY, LS SWAP 4GX017-011 CRANK PLY, 10-RIB, 6", UNIV 3/8-24 X 3" HXHD GR8 4MA018-041 7B375-300 3 7K375-040 3/8 AN960 FLAT WASHER PLATED 3 BELT TENS PLATE, HEAVY DUTY PILOT, 6203/5 BRG, 1/2 SCREW IDLER W/BRNG ASSY, 36MM 4FA011-042 4FD017-011 1 4FP116-030 M12 X 1.75 X 20MM HXHD M12 X 1.75 X 65MM HXHD 7C012-020 3 7C012-065 M12 X 1.75 NUT 7G010-175 1 7J012-092 WASHER, M12 FLAT, ZN PLT 4 **DISCH ASSY, CARB, LS SWAP** ASY, DISCH TUBE, CARB, LS SWAP 4GX212-020 1 4GX112-020 7A250-350 1/4-20 X 3.50 HHCS GR5 ZINC 7J250-010 1/4" GASKET SEALING WASHER 7P375-250 3/8 X 3/8 X 1/4 MALE BARB TEE 7PS300-275 REDUCER, BLK 3.0- 2.75 BUMP HOSE, 3.00D X 3.00L #44 SAE TYPE F SS HOSE CLAMP 7PS300-301 1 7R002-044 7R002-048 #48 SAE TYPE F SS HOSE CLAMP 7U030-218 7/32 VAC HOSE, BUNA-N 5FT 8D204-064 ASY, RACE BYPASS VALVE, BLK/SAT 1 8H040-050 AIR FILTER 3.5"FLG X 7"L 1 8H040-175 FILTER, 1.75" I.D., RACE BYPASS 1 8M106-011 **ASSY, CARB HAT, SINGLE INLET** 1

aged parts immediately.

4GR110-110 ASSY, DAMPER PIN, LS1-LS2-LS6

4GX020-050 INSTR MAN, EFI LS SWAP, G3, C5

4GX110-064 MNTG BRKT ASY, C5 FEAD, G3, LS

2A017-126-242 SPCR, 1.25" OD, .469" ID, 2.420" L 2A017-878-09 SPACER, .875 O.D. X 2.42 LONG

4GX010-051 MNTG PLT.REAR.CYL HD.G3.LS SWAP

4GX010-061 MNTG PLT, FRONT, S/C, G3, LS SWPA 4GX010-071 SUPPORT, MNTG PLT, G3, LS SWAP 4GX016-150 IDLER, GROOVED, 10-RIB, DUAL BRG 4GX017-021 SPACER, IDLER, C5 FEAD, 1.945"L

DESCRIPTION

SMALL SILVER DIE CUT DECAL

LICENSE PLATE FRAME, VORTECH

S/C LUBE, BOTTLED, 3-PACK

V3 S/C ASY, LS SWAP, C5 FEAD S

PILOT, 6203/5 BRG, 7/16 SCREW

3/8-16 X 1.25 HHCS, GR8, PLT

3/8-16 X 1-3/4 HXHD G8 3/8-16 X 3.5" HX HD GR8 3/8-16 X 4" BOLT HXHD GR8

1 YR S/C STRT INFO PKG ASY VORT 1

PART NO.

008110

008130

008447

009035

2F328-090

2C017-002

7A375-126

7A375-178

7A375-352

7A375-400



IMPORTANT: Before beginning installation, verify that all parts are included in the kit. Report any shortages or damaged parts immediately.

NOTE: For optimal operation of this supercharger system, Vortech recommends using the following accessories. (Not available through Vortech)

ARP Balancer Bolt Kit P/N: 234-2503 QTY: 1



Summit Racing Harmonic Damper P/N: SUM-C2501 QTY: 1



ACDelco Mechanical Water Pump P/N: 19195105 QTY: 1



Note: Any straight water neck is OK. Mr. Gasket Chrome Water Neck P/N: 2671 QTY: 1



Chevrolet Perf. Deluxe Serpentine Drive Kit P/N: 19257325 QTY: 1

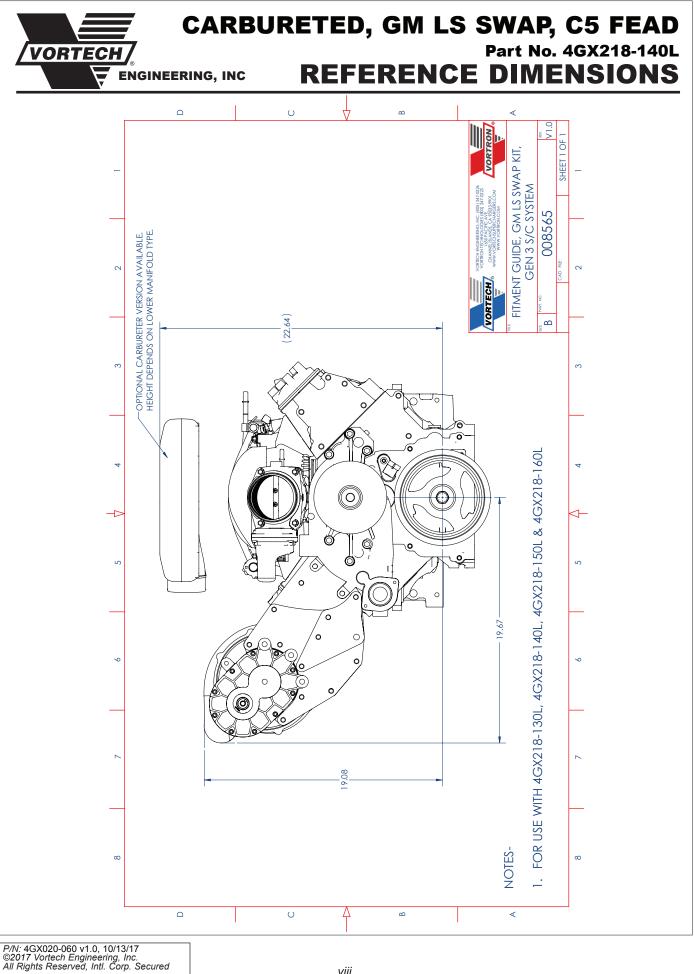


Note: Contact Holley for vehicle compatability. Holley Low LS Drive System A/C P/N: 20-160 QTY: 1



Holley LS Mid-Rise Carb. Intake Manifold P/N: 300-132 QTY: 1





IMPORTANT INSTALLATION NOTES

This kit should only be installed by qualified mechanics. It is imperative that **the correct air/fuel mixture be maintained at all times**. This kit is to be supplied to competent engine tuners for their completion by the addition of, and tuning of, appropriate fuel and ignition control components.

This product is intended for use on healthy, well maintained engines. Installation on a worn-out or damaged engine is not recommended and may result in failure of the engine.

Vortech Engineering is not responsible for engine damage. Installation on new engines will not harm or adversely affect the break-in period so long as factory break-in procedures are followed.

- 1. This tuner system is based on the OEM C5 Corvette damper and accessory/FEAD configuration. Due to some variations in the OEM FEAD over the years, your installation may require minor modifications (belt length change, etc.). **Mounting plate modifications may also be required depending on vehicle applications**.
- Pulley diameter changes: Careful size selection is mandatory for proper engine and supercharger longevity. Contact the Vortech Tech Line for assistance with impeller speed calculations if necessary.

	6.00" Crank Pulley P/N: 4MA018-041	7.00" Crank Pulley P/N: 4MA018-051	Idler Pulley Position (Tensioner Plate)
3.60" S/C Pulley P/N: 2A031-360 (Included in kit)	Belt Length - 63.0" P/N: 2A041-630 (Included in kit)	Belt Length - 65.0" Continental P/N: 4100650 (Not available through Vortech)	
3.48" S/C Pulley P/N: 2A031-348		Belt Length - 65.0" Continental P/N: 4100650 (Not available through Vortech)	
3.33" S/C Pulley P/N: 2A031-333		Belt Length - 64.4" Continental P/N: 4100644 (Not available through Vortech)	Lower
3.12" S/C Pulley P/N: 2A031-312		Preferred Belt Length - 64.4" Continental P/N: 4100644 (Not available through Vortech)	
1 /14. 2/1001-012		Optional Belt Length - 64.0" P/N: 2A041-640	

NOTE: If the supercharger drive pulley will not slide onto the shaft, DO NOT FORCE IT. Light heating of the supercharger drive pulley with a propane torch will aid in installation. This page was left intentionally blank.

1. HARMONIC BALANCER INSTALLATION

- A. Lock the engine from rotating and remove the OEM damper pulley bolt. Using a proper damper removal tool, remove the crank pulley. (See Fig. 1-a)
 - NOTE: A/T vehicles: Lock the engine through the trans dust cover with an open end wrench to one of the torque converter mounting bosses on the flex plate.

M/T vehicles: Place car in 6th gear with wheels on the ground and apply parking brake.

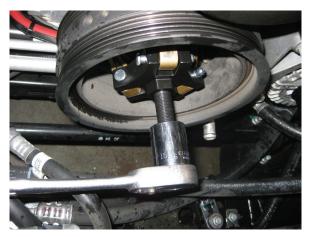


Fig. 1-a: Remove Damper Bolt & OEM Damper

B. Install the replacement damper onto the crankshaft using a proper damper installation tool with thrust bearing. After the new damper is fully seated, remove the install tool. Install the supplied drill guide with the raised section piloting in the damper bore. Temporarily secure in place by installing the supplied socket head cap screw. Do not over-tighten the screw as it may distort the drill guide (its purpose is just to hold the guide in place while drilling).

(See Fig. 1-b)

- NOTE: Do NOT use the NEW supplied crank bolt to "pull" the damper onto the crankshaft.
- C. Using an angle or small drill motor, mark supplied Ø1/4" drill bit to a depth of 2.27" with electrical tape or use a drill stop to ensure that the hole will be deep enough for the supplied 1/2" long dowel pin. The depth of the drilled hole will reach 1/2" when the 2.27" mark on the drill bit is flush with the face of the damper. (See Fig. 1-c)



Fig. 1-b: Install Provided Damper



Fig. 1-c: Mark Drill Bit Depth To 2.27"

1. HARMONIC BALANCER INSTALLATION, cont'd

D. Drill the hole making sure to keep the tool perpendicular to the damper. Use extra care. Drill only as deep as necessary.
(See Fig. 1-d)



Fig. 1-d: Drill Dowel Pin Hole

E. Remove the socket head cap screw and drill guide.Install the supplied Ø1/4" x 1/2" long dowel pin into the drilled hole with the cham-fered end pointed toward the front of the vehicle.

(See Fig. 1-e)



Fig. 1-e: Inspect Dowel Pin Hole & Install Dowel Pin



Fig. 1-f: Install & Torque Damper Bolt

F. Verify that the dowel pin is recessed slightly from the damper face. Lightly coat the threads of the new damper bolt with red loctite. First, install and torque to 37 ft-lb. Next, using a 1/2" drive or larger breaker bar, tighten the damper bolt an additional 120° or torque to 250 ft-lb.

(See Fig. 1-f)

NOTE: Remember to use red loctite on the new damper bolt.

2. SUPERCHARGER MOUNTING BRACKET ASSEMBLY INSTALLATION

NOTE: Use blue loctite on all hardware in this section.

A. Make sure there is nothing currently installed on the passenger side cylinder head. Locate the provided 2x M10 x 30mm screws, 2x 10mm washers & cylinder head plate. Install the screws into the 2x holes furthest to the right on the cylinder head plate. Proceed to line up the screws with the corresponding cylinder head mount holes & begin to thread them in. Leave the screws hand tight at this time.

(See Fig. 2-a)



Fig. 2-a: Passenger Side Cylinder Head

B. Due to casting variances among LS water pumps, it may be necessary to clearance the top section of the water pump near the lower water neck in order for one of the supercharger bracket spacers & 1x M10 x 1.5 x 120mm screws to fit properly. At this time, continue with the installation of the supercharger mounting bracket assembly & only complete to this step if you encounter a fitment issue.

(See Fig. 2-b)

C. Locate the provided 3x .875" O.D. x 2.42" length spacers, 3x 3/8-16 x 3.50" screws, 3x 3/8 AN washers & the supercharger mounting plate. Using the provided hardware, secure the supercharger plate to the cylinder head plate, making sure to place the 3x spacers between both plates. Leave the screws hand tight at this time.

(See Fig. 2-c)



Fig. 2-b: Clearance Water Pump If Necessary

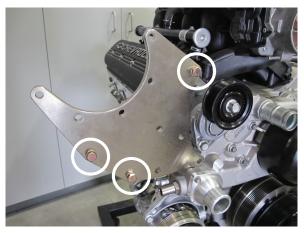


Fig. 2-c: Loosely Attach Supercharger Plate

2. SUPERCHARGER MOUNTING BRACKET ASSEMBLY INSTALLATION, cont'd

D. Locate the provided 2x M10 x 1.5 x 120mm screws, 2x M10 washers, 1x 3/8-16 x 4.00" screw, 1x 3/8 AN washer, the mounting plate support & the remaining 3x .875" O.D. x 2.42" length spacers. Using the provided hardware, secure the support brace & supercharger plate to the cylinder head plate, making sure to place the 3x spacers between the cylinder head plate & supercharger plate. Leave the screws hand tight at this time.

(See Fig. 2-d)

NOTE: If you encounter a fitment issue with the M10 x 1.5 x 120mm screw & corresponding spacer that's furthest to the right, go back & complete Step B in this section

- E. Locate the provided 1x 7/16-14 x 7.50" screw, 1x 7/16-14 nylock nut, 1x 1.945" length idler spacer, 1x 1.25" O.D. x 2.42" length spacer, 1x bearing pilot & 1x 10-rib grooved idler pulley. Assemble the 1x bearing pilot, 1x 10-rib grooved idler & 1x idler spacer as shown, then slide it onto the 1x 7/16-14 x 7.50" screw. Next, place the 1x 1.25" O.D. x 2.42" length spacer between the cylinder head plate & supercharger plate, aligning it with the remaining lower hole on all 3 plates. Once in place, slide the 1x 7/16-14 x 7.50" screw through all 3 plates & through the 1x 1.25" O.D. x 2.42" length spacer. From behind the cylinder head plate, secure the 1x 7/16-14 x 7.50" screw & ribbed idler assembly using the provided 1x 7/16-14 nylock nut. (See Fig. 2-e)
- F. Locate the provided 1x 3/18-16 x 1.75" screw & 1x 3/8 AN washer & slide it through the mount-ing plate support & supercharger plate as shown. This is done in order to keep both holes in the plates aligned, which will aid in the installation of the supercharger unit. Once in place, proceed to tighten all of the mounting bracket assembly hardware, including the hardware securing the cylinder head plate to the cylinder head.

(See Fig. 2-f)

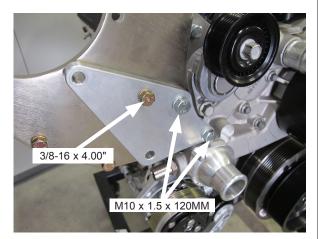


Fig. 2-d: Loosely Attach Mounting Plate Support



Fig. 2-e: Install 10-Rib Grooved Idler Pulley

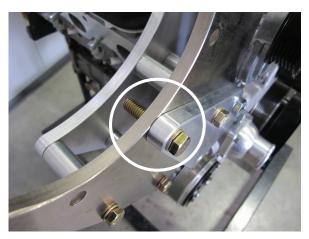


Fig. 2-f: Use Screw As Pilot & Secure All Mounting Bracket Hardware

3. SUPERCHARGER UNIT & BELT DRIVE INSTALLATION

NOTE: Use blue loctite on all hardware in this section.

A. Locate the provided crank pulley & spacer. Align the 3x mounting holes on the crank pulley spacer with the corresponding holes on the crank pulley. Insert the 3x 3/8-24 x 3.00" screws & 3x 3/8 washers through the mounting holes.

(See Fig. 3-a)



Fig. 3-a: Pre-Assemble Crank Pulley Assembly

B. Make sure the mounting surface where the crank pulley spacer will be installed is clean & clear of any debris. Line up the 3x mounting screws with the 3x mounting holes on the damper & thread them by hand. Once fully seated, torque to 37 ft/lbs.

(See Fig. 3-b)

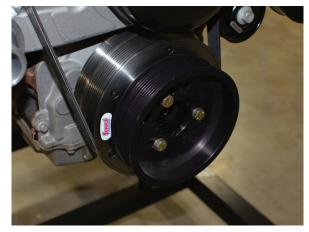


Fig. 3-b: Install Crank Pulley Assembly

Fig. 3-c: Install Supercharger Unit

C. Install the supercharger unit onto the supercharger mounting bracket assembly & clock it as shown. Use the remaining 4x 3/8-16 x 1.25" screws, 1x 3/8-16 x 1.75" screw & 5x 3/8 AN washers to secure the supercharger to the supercharger plate. You may tighten the hardware at this time.

(See Fig. 3-c)

3. SUPERCHARGER UNIT & BELT DRIVE INSTALLATION, cont'd

D. Locate the provided 3x M12 x 1.75 x 20mm, 3x M12 washers & 1x manual belt tensioner plate & install them to the supercharger unit as shown.
(See Fig. 3-d)



Fig. 3-d: Install Manual Belt Tensioner Plate

E. Located the provided 1x M12 x 1.75 x 65mm screw, 1x bearing pilot, 1x flanged idler pulley, 1x idler pulley spacer, 1x M12 washer & 1x M12 x 1.75 nut. Use the provided hardware to secure the flanged idler pulley to the lower hole on the manual belt tensioner plate. Be sure the snap ring on the idler pulley is facing towards the idler plate.

(See Fig. 3-e)

F. Locate the supercharger drive belt & route it as shown. Once routed, turn the manual tensioner clockwise & use a 3/4" wrench to tighten the manual tensioner hardware. Be sure not to apply an excessive amount of tension to the drive belt.

(See Fig. 3-f)

NOTE: It may be necessary to use a 3/4" tappet wrench or a slim 3/4" wrench to tighten the M12 screws closest to the supercharger drive pulley & idler pulley.



Fig. 3-e: Install Flanged Idler



Fig. 3-f: Install 10-Rib Drive Belt

4. CARB HAT, DISCHARGE DUCTING & BYPASS VALVE INSTALLATION

 Remove the fasteners, retainers & carbureter hat base. Place the diffuser into the receiver groove machined into the carb hat housing. (See Fig. 4-a)



Fig. 4-a: Carbureter Hat w/Diffuser

B. Re-install the carbureter hat base & loosely install the fasteners & retainers. Make sure that the diffuser seats into the groove machined into the base. Depending on the type of carbureter you have, you may need to reclock the carbureter hat base.

(See Fig. 4-b)



Fig. 4-b: Re-install Carbureter Hat Base

C. Locate the provided carbureter gasket & install it as shown.
(See Fig. 4-c)



Fig. 4-c: Install Carbureter Hat Gasket

4. CARB HAT, DISCHARGE DUCTING & BYPASS VALVE INSTALLATION, cont'd

D. Place the carbureter hat assembly onto the carbureter, making sure to align the reliefs on the carbureter hat base with the top of the carbureter.

(See Fig. 4-d)



Fig. 4-d: Align Carbureter Hat Reliefs

E. Locate the 5/16-18 screw & sealing washer provided with the carbureter hat. Slide the sealing washer onto the screw, then insert the screw through the opening on the top of the carbureter hat. Hand tighten the screw to the carbureter.

(See Fig. 4-e)

NOTE: Some carbureters use a 1/4-20 screw to fasten the carbureter hat. If possible, it is suggested that you open up the 1/4" bore to accept a 5/16-18 screw. If your carbureter does not have enough material to open up the bore, Vortech suggests to swap out the carbureter for one that will accommodate the 5/16-18 screw.



Fig. 4-e: Secure Carbureter Hat

F. Install the 3.00"-2.75" reducer sleeve, 1x #44 hose clamp & 1x #48 hose clamp to the supercharger outlet. Leave the hose clamps loose at this time.

(See Fig. 4-f)



Fig. 4-f: Install 3.00"-2.75" Reducer Sleeve

4. CARB HAT, DISCHARGE DUCTING & BYPASS VALVE INSTALLATION, cont'd

G. Install the 3.00" bump sleeve & 2x #48 hose clamps to the carbureter hat. Leave the hose clamps loose at this time.

(See Fig. 4-g)

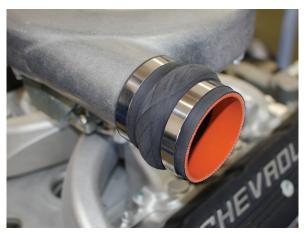


Fig. 4-g: Install 3.00" Bump Sleeve

H. Locate the provided discharge tube & insert it into both silicone sleeves. The end of the tube with the bypass valve flange should be closest to the carbureter hat. With the tube in place & correctly clocked, proceed to tighten the carbureter hat fasteners, 5/16 screw with sealing washer & all hose clamps.

(See Fig. 4-h)

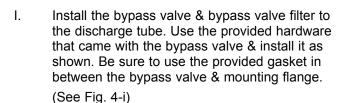




Fig. 4-g: Install Discharge Tube



Fig. 4-i: Install Bypass Valve

4. CARB HAT, DISCHARGE DUCTING & BYPASS VALVE INSTALLATION, cont'd

J. Install the provided 7.00" long air filter to the supercharger inlet & secure using the hose clamp provided with the filter.
(See Fig. 4-j)

Fig. 4-j: Install Air Filter

K. Included in this kit is a 5ft length of 7/32 vacuum hose. Attach one end of the hose to the fitting on the bypass valve. If possible, attach the other end of the vacuum hose directly to the intake manifold. If that is not an option, use the supplied 3/8 vacuum fitting & tee into a source that will see full vacuum and boost. Secure with the provided clamps.

(See Fig. 4-k)

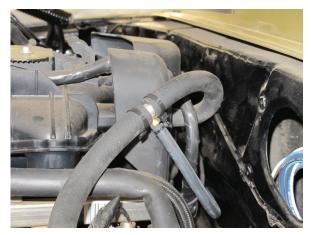


Fig. 4-k: Locate Vacuum Source

5. FINAL CHECK

WARNING: Do not attempt to operate the vehicle until all components are installed and all operations are completed including final check.

- **A.** Refit the fan and shroud (if equipped).
- **B.** If your vehicle has gone over 15,000 miles since its last spark plug change, you will need to change the spark plugs now *before* test driving the vehicle.
- C. Check all fittings, nuts, bolts and clamps for tightness. Pay particular attention to oil and fuel lines around moving parts, sharp edges and exhaust system parts. Make sure all wires and lines are properly secured with clamps or tie-wraps.
- D. Check all fluid levels, making sure that your tank(s) is/are filled with 91 octane or higher fuel before commencing test drive.
- E. Re-jet the carburetor as required. Install a boost referenced high-performance mechanical fuel pump or high performance electric fuel pump with boost referenced fuel regulator.
- F. Fuel pump boost reference hose connection: Connect a suitable boost reference hose to the mechanical fuel pump (or to the regulator if an electric pump and bypass-style fuel system is employed) to a positive pressure source upstream of the throttle valve. This source can be a port (installer provided) located on the supercharger discharge tube or carb hat/enclosure. Ensure that the source that you select supplies only positive pressure under all operating conditions.
- **G.** Start the engine and allow to idle a few minutes, then shut off.
- Recheck to be sure that no hoses, wires, etc. are near exhaust headers or moving parts. Look also for any signs of fluid leakage.
- I. Use a wide band O2 sensor to verify a proper air/fuel ratio (Vortech suggests 11.0:1 for 91 octane pump fuel.) Check ignition timing to make sure it is properly set before commencing test drive.
- J. PLEASE TAKE SPECIAL NOTE: Operating the vehicle without ALL the subassemblies completely and properly installed may cause FAILURE OF MAJOR COMPONENTS.
- **K.** Keep in mind that this manual does not address air/fuel or ignition timing considerations.
- L. Test drive the vehicle.

- M. Always listen carefully for engine detonation. Discontinue heavy throttle usage if detonation is heard.
- N. Read the STREET SUPERCHARGER SYSTEM OWNER'S MANUAL AND RETURN THE WARRANTY REGISTRATION FORM within thirty (30) days of purchasing your supercharger system to qualify.

For internally lubricated V-3 units only

This supercharger has been factory pre-filled with special Vortech synthetic lubricant. Oil does not need to be added to a brand new unit; however a fluid level check should be performed.

Prior to operating the supercharger on the vehicle and after installation onto the vehicle:

Remove the factory installed flat-head brass shipping plug (not the dipstick) from the top of the supercharger case. Replace the sealed shipping plug with the supplied "vented" plug. Do not operate the supercharger without it. Check the supercharger fluid level.

Fluid level checking procedure:

- 1. Ensure that the .06" copper sealing washer is located on the dipstick base.
- 2. Thread the clean dipstick into the unit until it seats.
- 3. Once the dipstick has seated, remove the dipstick from the unit. Fluid should register in the crosshatched area on the dipstick.
- 4. DO NOT OVERFILL!!! Drain excess fluid from the unit if it is above the maximum level on the dipstick.

Check the fluid level using the dipstick at least every 2,500 miles.

Initial supercharger fluid change must be performed at 2,500 miles. The supercharger fluid must be changed at least every 7,500 miles.

Drain the fluid, refill the unit with 4 oz. of Vortech V-3 lubricating fluid and then confirm proper oil level using the dipstick. DO NOT OVERFILL!!!

WARNING: Use of any other fluid other than the special Vortech lubricant will void the warranty and may cause component failure.



ENGINEERING, INC

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