2018+ Mustang GT/Bullitt/Mach 1 Stage 2 Intercooled System Installation Guide



The ULTIMATE Power Adder™

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You should also have the following gauges available to properly check the finished installation and monitor your vehicle's performance (especially for testing):

Manifold Boost Pressure Gauge
 Fuel Pressure Gauge
 Wide Band Oxygen Sensor and Gauge

Gauges should be of a type that can be read from the cockpit while performing a wide-open throttle road test. Cockpit or hood-mounted gauges are preferable. In order to obtain usable readings, the gauges should measure pressure at the intake manifold and fuel rail. IF VEHICLE DOES NOT MAINTAIN PROPER FUEL PRESSURE (50-65 PSI), DECREASE THROTTLE APPLICATION IMMEDIATELY. In some cases, extra vehicle modifications can strain the stock fuel pump. If your vehicle has difficulty retaining adequate fuel pressure, contact ATI ProCharger about the availability of an upgraded fuel system.

The engine on which the ProCharger[®] is to be installed should retain the factory compression ratio. If it has been modified in any way, please consult ProCharger staff before proceeding with the installation. This supercharger system is intended for use on STOCK, strong, well-maintained engines/transmissions. Installation on a worn or troublesome powertrain should be reconsidered. ATI PROCHARGER WILL NOT BE HELD RESPONSIBLE FOR DAMAGE TO A VEHICLE'S POWERTRAIN. ATI ProCharger is not responsible for ECM tuning/programming on non-stock vehicles. ATI PROCHARGER recommends verifying that your vehicle has current ECM updates from the vehicle manufacturer before installation.

For best performance and reliability, always use premium grade fuel (91 octane or higher) and listen closely for signs of detonation, which might sound like ball bearings rolling around in a tin can. IF DETONATION SHOULD OCCUR, OR IF YOU ARE UNSURE WHETHER WHAT YOU'RE HEARING IS DETONATION, DECREASE THROTTLE APPLICATION IMMEDIATELY and please consult ATI ProCharger staff. Detonation should not be an issue with a properly installed intercooled supercharger system, though OEM factory-shipped engine and parts inconsistencies are possible on any vehicle.

INTRODUCTION

Congratulations on purchasing your ProCharger® 2018+ Mustang GT/Bullitt/ Mach 1 Stage 2 Intercooled System. Read this entire manual before you attempt to install your ProCharger kit. It is imperative that you follow all of the instructions in the order they appear in this installation guide. If you have any questions regarding any aspect of this installation, call us at (913) 338-2886.

For best results, we recommend reviewing the installation instructions beforehand, and following the installation instructions closely and in sequence. A detailed packing list has been provided to assist you in identifying the components of your ProCharger system.

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Warning: Read and understand all
safety precautions in this manual
before installation. Failure to comply
with instructions in this manual could
result in personal injury, property
damage, and/or voiding your warranty.
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Warning: Your supercharged Mustang must always be run on 91 octane or better gas. The best way to insure this is to run the tank near empty (below 1/4) and fill with 91 octane for several tanks prior to installing the supercharger.

Required Tools and Supplies

- ¾" Socket Set (standard & metric)
- Torx set
- Open End Wrench Set (standard & metric)
- ⁵/₁₆" Nut Driver
- Hex Bit Set (allen) (standard & metric)
- Flat Screwdrivers
- Phillips Screwdrivers
- Plier Set
- Ford Engine Coolant (Pink)



Tech Tip: Installing spark plugs that are one heat ranger colder than stock and gapping your plugs to .035" is recommended.

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TUNING IS REQUIRED WHEN INSTALLING YOUR PROCHARGER SYSTEM. SEE SUPPLEMENTAL TUNING GUIDE FOR INSTRUCTIONS.

GETTING FAMILIAR



Completion of this section will configure the vehicle for system installation:

(A) Engine Cover

- (B) Factory Air Inlet
- (C) Radiator Cover
- (D) Mass Air Flow (MAF) Sensor

Read and understand all safety precautions in this manual before installation. Failure to comply with instructions in this manual could result in personal injury, property damage, and/ or voiding your warranty.

Air Inlet Removal

AIR INLET REMOVAL

Models Equipped With a Strut Tower Bar:

Use an 8mm to remove the screw holding the wiring harness to the passenger's side strut tower.



- 2 Unhook the plastic wiring harness holder from the passenger's side strut tower stud.
 - Use a 15mm to remove the (4) nuts holding the strut tower bar. Remove strut tower bar.

GT Models:

- 4 Remove the engine oil fill cap. Use flat screw driver to pop off the (2) round plastic caps on the engine cover. Use a 10mm socket to remove the nut below each cover. Remove cover.
- 5 Unplug the MAF connector by extending the red locking tab and squeezing the connector. Disconnect the harness from the front side of the airbox.

Wiring Harness Screw (Passenger's Side)



Strut Tower Bar (Passenger's Side)



Engine Cover Cap

Air Inlet Removal

- Remove the (1) small hose from the air inlet tube by squeezing the retaining clip and pulling back on the hose.
- 7 Disconnect the medium-size PCV hose by rotating the locking clip up and pulling back on the hose.
- 8 Use pliars to compress the clamp holding the large hose to the inlet tube. Disconnect the hose.
 - Using a 7mm nut driver, loosen the inlet connection to the throttle body.
 - 0 Use a 10mm to remove the screw holding the air box to the body.
- 11
- Remove airbox and inlet tube assembly.
- Remove the plastic clip holding the air tube to the driver's side strut tower.
- 3 Locate the tab holding the air tube to the fuel line. Squeeze the tab to disconnect.
- 14 Locate the nut holding the air tube to the firewall, behind the engine on the driver's side. Using a 10mm socket, swivel, and extensions, remove the nut. Pull the air tube out of the driver's side firewall by pulling gently outwards.
- 15 Insert the supplied grommet found in the air inlet bag into the hole in the firewall.



Disconnect Air Inlet Hoses



Airbox Screw



Firewall Nut

Air Inlet Removal

Bullitt / Mach 1 Models:

Disconnect the (2) PCV hoses from the air intake elbow.

Unplug the MAF connector by extending 17) the red locking tab and squeezing the connector. Disconnect the harness from the front side of the air inlet tube.



Disconnect Hoses/Plugs

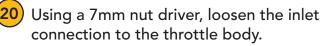


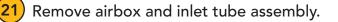
18) Using a 10mm remove the (4) bolts securing the rubber hood seal to the factory air box.



Remove Rubber Hood Seal









Air Box Bolt

FASCIA REMOVAL

- 1 Raise the vehicle just enough to access the undercladding hardware. Secure with jack stands.
- 2 Use a flat screw driver to remove the (8) plastic clips that secure the radiator cover. Remove cover.
- 3 Use a flat screw driver to remove the (6) undercladding plastic push-clips. (3 per side). And also remove the (2) push pins in the corners near the front tires.

4 Use a 7mm to remove the 18 screws holding the undercladding. Remove the undercladding.

Disconnect the fog light and turn signal connectors, (1) connector per side.

6 Use a flat screw driver to remove the plastic push-clips holding the wheel liner to the fascia in front of the tires. (3 per side).

7 Pull back the wheel liner to gain access to the fascia-to-fender mounting just in front of the tires. Use a 10mm to remove the (2) nuts. Push down on the plastic push clip to remove the plastic stud housing.



Driver's Side Push Clips



Remove Undercladding



Fender Nuts

Fascia Removal



Push down on the plastic push clip to remove the plastic stud housing.



Plastic Stud Housing Removed



Use an 8mm to remove the (6) screws at the top of the fascia.

10 There are (2) screws (1 on each side) under the weather seal near the headlight. Pull back the weather seal and use a 5.5mm to remove the screws.

Remove the fascia.



Top Fascia Screws

If not equipped with active shutters:

12 Remove the radiator air baffle by pushing down on the (6) clips that hold it to the plastic fascia mounting structure.



Remove Air Baffle

Fascia Removal

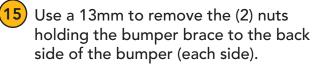
If equipped with active shutters:

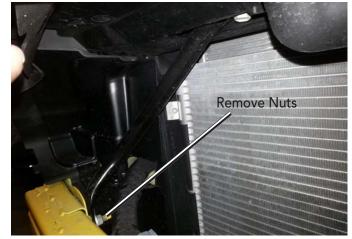
- (13) Remove the active shutters from the vehicle by removing the (4) 10mm bolts and (2) push pins.
 - In order to release it from the vehicle remove the (2) 5.5mm bolt from the backside.



Remove Active Shutters

Track Pack Models:



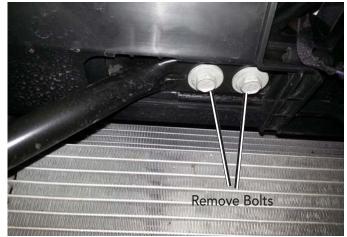


Bumper Brace Nuts

Use a 13mm to remove the (2) bolts holding the bumper brace to the radiator core support (each side).



Remove each side bumper brace.



Radiator Core Support Bolts

Fascia Removal

All Models:

(18) 2018 Models: Disconnect the ambient air temperature sensor and its wiring harness from the front bumper.

(19) Remove the driver's and passenger's side plastic radiator shrouds by removing the (2) push pins and pulling the shrouds out the front of the vehicle.

2018 Models will be connected by a panel along the bottom.



Passenger's Radiator Shroud



If equipped, remove condenser end tank covers.

COOLING SYSTEM

Drain the cooling system by loosening the petcock near the bottom passenger's side of the radiator. Save the coolant as it will be reused to refill the system.

- 2 Use pliars to compress the clamp holding the radiator hose to the thermostat housing neck. Disconnect the hose from the housing.
- Use a 8mm to remove the (2) bolts attaching the thermostat housing neck to the housing body. Remove the lower housing neck.

4

If the thermostat comes out of the housing, put it back in place.

Using the factory hardware, install the new supplied thermostat housing neck.

Mach 1 Only, GT and Bullitt Continue To Step: 9

- 6 Locate the (2) supplied radiator hose pieces. Attach the hose with multiple bends to the outlet on the radiator. Secure with a #24 hose clamp.
 - Place the 1.5" aluminum coupler in the open end of the hose.



Thermostat Housing



New Thermostat Housing Neck Installed



Lower Hose and Coupler

Cooling System

Attach the 90° section of hose from the coupler to the thermostat housing. Trim each end of the hose for proper fitment. Secure with the provided #24 hose clamps.



Upper Hose Section Installed



8

Reinstall the coolant hose onto the new thermostat housing neck.



10) Use pliars to disconnect the (3) hoses attached to the coolant reservoir.

11) Use a 10mm to remove the (2) screws holding the coolant reservoir to the fan shroud. Save these screws as they will be used in a later step. Remove the coolant reservoir.



Factory Coolant Reservoir

CRANK PULLEY

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Note: Sway bar removal (steps 1-4) may not be required on some models.



Tech Tip: The sway bar will have to be removed when running the 10-rib crank pulley. If it is not removed the sway bar could contact the pulley.

Use an 18mm to remove the (2) front sway bar to frame bolts on the driver's side.



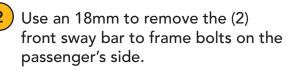
Driver's Front Sway Bar Bolt Removed



Passenger's Sway Bar Bolts Removed



Sway Bar End Links Removed



- 3 Use an 18mm wrench and 5/16 socket to remove both sway bar end links from the sway bar.
- Slide the sway bar out of the passengers's side wheel well until there is enough clearance to install the crank pulley.

Crank Pulley

Automatic Transmission:

- 5 Remove the rubber flywheel access cover from the driver's side of the engine block.
- 6) Hold a 13mm socket and 6 inch extension on one of the converter bolts. This will prevent the motor from turning over when tightening or loosening the crank bolt.

Manual Transmission:



Place the car in 6th gear and apply the emergency brake.



Use an 18mm and a breaker bar to remove the factory crankshaft balancer bolt.



Tech Tip: For vehicles utilizing an aftermarket ATI Performance Products balancer (part #918047), refer to the manufacturers installation instructions. The supplied crank pulley mounts to the damper using the (3) supplied 3/8-16 x 2.5" bolts and washers.

2020+ Model Years Skip to Step 12



Insert the supplied crank pulley assembly into the factory balancer.

Rotate the crank pulley counterclockwise until the pins stop it from rotating.



Rubber Flywheel Cover



Converter Bolts



Back View of Crank Pulley Assembly

Crank Pulley

Tech Tip: The picture to the right shows how the supplied crank pulley locks into the factory damper.

Insert the supplied M12-1.5 x 120mm balancer bolt and washer.

2018-19 Model Years Skip to Step 16

(12)Attach the cam locks to the back side of the crank pulley using the supplied 5/16 x 1-3/4 bolts and washers. Make note of the 3 pairs of holes that are closer to one another. Each of these close pairs will straddle one of the balancer's webs. Rotate the cam locks to point away from its paired cam lock as shown. Snug the cam lock bolts.

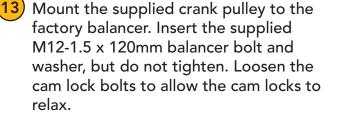
Detailed View of Crank Pulley Installation



Cam Locks Pointed Away From Each Other



Back View of Crank Pulley and Cam Locks

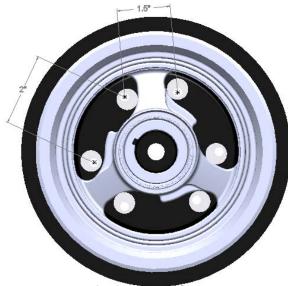


Crank Pulley

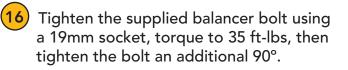


Rotate the crank pulley counterclockwise until the cam locks stop it from rotating.

15) Lightly tighten the supplied balancer bolt. Tighten the (6) cam lock bolts with a 1/2" socket.



Detailed View of Proper **Cam Lock Orientation**





Use an 18mm to reinstall the sway bar. bolts and sway bar end links.



Crank Pulley Installed

PROCHARGER BRACKET AND HEAD UNIT

Remove the (2) timing cover bolts and the alternator nut labeled in the image at right. The alternator nut can be removed by using a 15mm socket, the remaining (2) bolts use a 13mm socket (the lower right bolt will have a plastic cap that needs to be pulled off before accessing the bolt).



Remove Factory Hardware (Driver's Side)



Sub Bracket Installed



Uppermost Timing Cover Bolt



3 Use a 13mm to remove the uppermost timing cover bolt on the driver's side, behind the coolant tube.



Tech Tip: The upper coolant tube may need to be bent slightly to remove the upper bolt.



Use an 8mm to remove the upper thermostat housing bolt.

- 5 Use a 10mm to remove the (2) screws holding the factory upper radiator brackets (each side). Remove the brackets
- 6 Install the supplied rubber isolators over the top radiator mounting posts. Push the isolator down as far as it can go.
 - Install the supplied radiator brackets using the factory hardware. Position the radiator as far forward as possible.



Thermostat Housing Bolt



Radiator Bracket Installed



Plastic Idler Pulley

Plastic Idler Pulley as Pictured:

- Use a 15mm to remove the bolt holding the idler pulley next to the water pump. Do not remove the pulley.
- Locate the supplied idler shaft. Insert the short recessed portion of the shaft into the factory idler pulley.

Metal Idler Pulley as Pictured:



(10) Use a 15mm to remove the bolt holding the idler pulley next to the water pump.



New Idler Shaft Installed



Using a 15mm release the factory tensioner on the 6 rib belt. Flip the metal pulley backwards.

12) Locate the supplied idler shaft. Insert the short recessed portion of the shaft into the factory idler pulley.

13) Slide the supplied idler pulley over the

and washer.

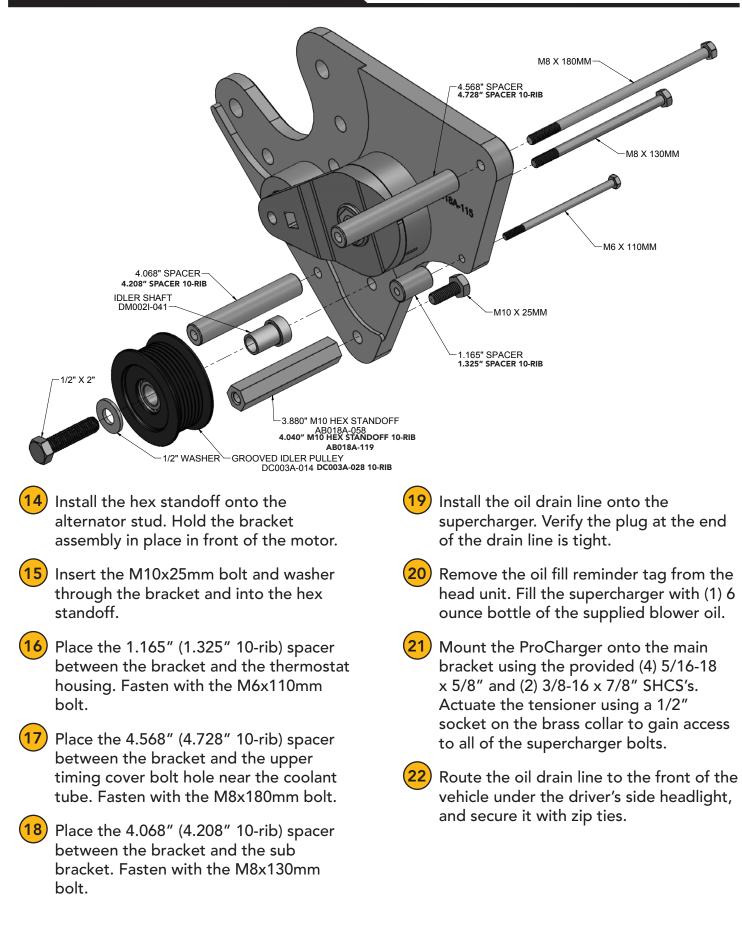
longer recessed portion of the shaft and secure with the supplied M8x70mm bolt



New Idler Shaft Installed

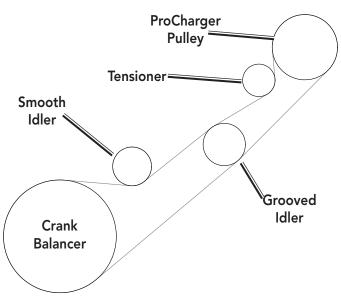


Smooth Idler Pulley





Route the belt over the crank pulley and up to the ProCharger pulley as shown.



Belt Routing



Insert a 1/2 drive ratchet/extension through the front hole of the main bracket and into the tensioner.

25) Rotate the tensioner counter clockwise.



Wrap the belt around the supercharger pulley.



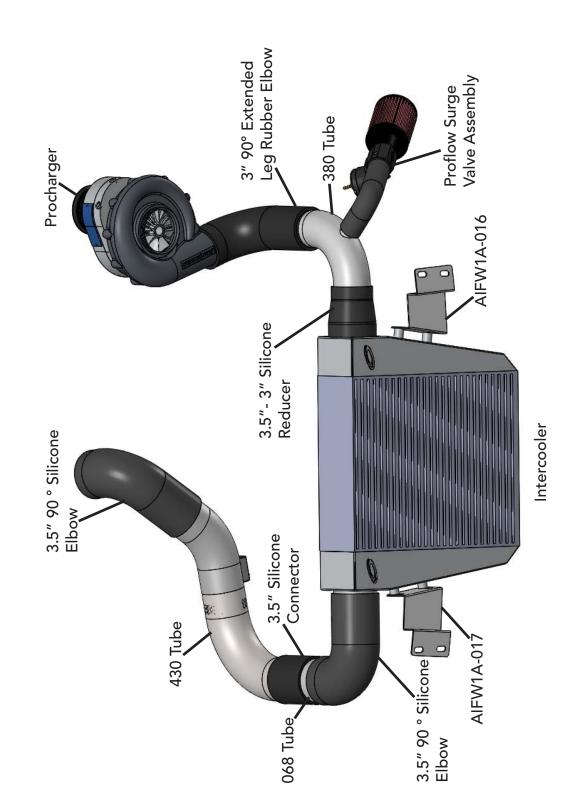
Release the tensioner and remove the ratchet/extension.



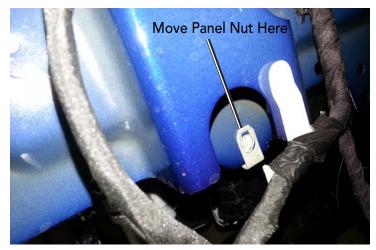
Rotate Tensioner Counter Clockwise

19





- Use a 8mm to remove the screw attaching the horns to the body.
- 2 Remove the panel nut and install it in the hole a few inches below at the bottom of the frame.
- 3 Use a 10mm to loosen the (2) nuts on each horn. Mount the horns to the panel nut using the factory bolt. The body of the horns should be faced toward the center of the car. Rotate the horns so they are pointing downward. Tighten the 10mm nuts.
 - Disconnect the wiring harness retainers holding the main wiring harness behind the front bumper. Set the harness on top of the bumper to provide clearance for the intercooler.
- 5) If optioned with a race valve: Install the 90° pushlock fitting onto the valve.
- 6 If optioned with a race valce: Mount the race valve to the plenum on the intercooler using the supplied #10 screws and o-ring. Orient the pushlock fitting so it is towards the back side of the intercooler.



Horn Nut Relocated



Horns Relocated



Race Valve Mounted (Optional)

Wiring Harness Retainers

Use the supplied 3/8" bolts and washers to attach the brackets to the intercooler mounting bosses using a 9/16. Leave these bolts loose.



Slide the intercooler up between the bumper and the condenser.

Tech Tip: It may be necessary to loosen the (8) bumper to frame bolts using a 13mm to gain clearance for the intercooler and brackets.

The intercooler brackets slide over the end of the bumper to frame bolts on the back side of the bumper. Thread the supplied M8 nuts with washers onto the bumper bolts with a 13mm. (Both sides)

Tech Tip: Leave the intercooler bracket hardware loose until all hardware has been installed and the intercooler has been adjusted. Adjust the intercooler as high and as far forward as possible before tightening.



Intercooler Mounted



Driver's Side Intercooler Bracket

10 Use a T15 torx to remove the (2) screws retaining the factory MAF sensor to the factory inlet tube.



MAF in Factory Air Inlet

Insert the MAF sensor into tube #430. The mounting holes are offset so the sensor can only be installed in one direction. Secure with the supplied M4 screws using a 7mm socket.



Tech Tip: Leave tubing connections loose to allow for adjustment.

2) Trim the short leg of the 3" 90° rubber elbow until it fits properly over the supecharger outlet. Secure with #52 hose clamp.

13) Install tube #380 (tube # 268 for

with a #52 hose clamp.

race valve) into the open end of the extended leg 90° rubber elbow. The long leg of the rubber coupler may need to be trimmed for proper fitment. Secure



MAF Installed Into Tube #430



Blower Discharge Tube Installed

Connect the tube #380 (tube # 268 for race valve) to the intercooler using the 3.5" to 3" silicone reducer. Secure connections with a #52 hose clamp and a #56 hose clamp.



Surge Tube #380 Installed

15 Insert the long leg of the 3.5" 90° silicone elbow onto the passenger's side intercooler outlet. Secure with a #56 hose clamp.

16 Insert tube #068 into the silicone 90° elbow followed by the 3.5" silicone coupler. Secure with a #56 hose clamps.

17 Insert the 90° leg of tube #430 into the open end of the 3.5" silicone coupler. Secure with a #56 hose clamp.

- 18 Connect tube #430 to the throttle body using the 3.5" 90° silicone elbow. Secure with 3.75" T-bolt clamps
 - Note: Bullitt / Mach 1 Models: Use the 4"-3.5" 90° silicone elbow to complete the connection to the throttle body. Trim the 4" side in order to fit properly.



3.5" 90° Silicone Elbow Installed



Tube #430 Installed



Throttle Body Elbow Installed



18 Use a flat screwdriver to unclip the driver's side wiring harness retainer. Slide the retainer down to line up with the hole on the top of the bumper.

19 Use a flat screwdriver to unclip the center wiring harness retainer. Remove the retainer. It will not be reused.



Unclip the Driver's Side Harness Retainer

20 Insert the passenger's side wiring harness retainer into the existing hole on the top of the bumper.

> **Note:** Some factory bumpers do not have available holes. If this is the case, remove the harness retainers and let the wiring harness sit on top of the bumper. No further retaining is necessary.

21

Use the supplied MAF extension harness to connect the factory MAF harness to the MAF sensor.



Wiring Harness Relocated

SURGE SYSTEM



Unwrap the foam covering the factory vacuum tree.

The port on the lower passenger's side has a line that previously ran to the factory air inlet tube. Remove this line from the vacuum tree.



Factory Vacuum Tree



Assemble the vacuum manifold using the provided barb fittings and plugs as shown.

Tech Tip: If installing a boost gauge, replace one of the 1/8" plugs with the additional provided barb fitting. Route a vacuum line from the barb to the boost gauge.

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Note: For the Race Valve option, the supplied fitting are push-lock style instead of hose barb.

Attach the supplied 3/8" vacuum hose to the open port on the factory vacuum tree. Cut the hose to proper length and install the vacuum manifold onto the end of the hose. Secure with #6 hose clamps.



Vacuum Manifold Assembled



Vacuum Manifold Installed

Proflow Surge Valve For Race Valve Option Proceed to Step 10

- 5 Install the 1.5″ 90° rubber hose over the bung on tube #380. Secure with a #24 hose clamp.
 - Insert the ProFlow surge valve into the open end of the 1.5" hose. The valve can be installed in either direction. Secure with a #24 hose clamp.



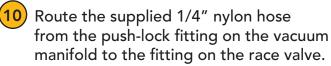
Tech Tip: Ensure the surge valve's actuator linkage and vacuum barb are unobstructed when fascia is reinstalled.

- Install the remaining 1.5" 90° rubber hose on the oposing side of the ProFlow surge valve. Secure with a #24 hose clamp.
- 8 Install the 1.5" 3" long tube into the open end of the 90° rubber hose. Slide the filter over the open end of the tube. Secure with a #24 hose clamp.
- 9 Attach the supplied 3/16" vacuum hose to the 3/16" barb fitting on the vacuum manifold, then route and attach to the surge valve vacuum port. Ensure the surge valve line is free of any sharp bends and is clear of any moving parts.



Note: If the bumper is difficult to install, it may be necessary to swap the location of the surge valve and 3" long tube.

Race Valve Option





ProFlow Surge Valve Installed

AIR INLET AND PCV SYSTEM

- GT And Bullitt Only Mach 1 Proceed To Page: 29
 - Locate the plastic inlet tube. Install the 90° brass fitting into the tube as shown.
 - 2 Insert the supplied 4" section of 5/8 rubber hose onto the end of the brass fitting.
- 3 Install the supplied 5/8 plastic "T" fitting onto the other end of the 4" piece of hose. Secure with the provided hose clamps.
- 4 Install the 3" long 4" rubber coupler onto the plastic inlet tube. Secure with a #64 hose clamp.
- 5 Install the inlet tube onto the ProCharger inlet. Secure with a #60 hose clamp.
- Slide the 4″ 45° rubber coupler over the rotomold inlet tube. Secure with a #64 hose clamp.
- 7

Insert tube #384 into the rubber coupler. Install the air filter onto tube #384 using a #60 hose clamp.



Tech Tip: It may be necessary to test fit the fascia on the vehicle to verify filter clearance.



Tech Tip: It may be necessary to relocate the horns to a bumper support bolt where the intercooler brackets mount.

Contine To Page: 30



Inlet Tube Assembled



Inlet Elbow Installed



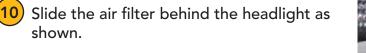
Air Filter Installed

Mach 1 Only

- 8 Drill a 1/2" hole in the end of the air filter. Install the 5/8" 90° barb fitting in the end of the air filter.
- 9
 - Install the 2-1/4" long 4" hose to the rotomold inlet tube as shown. Secure with a #60 hose clamp.



Plastic Inlet Installed



11) Slide tube #288 into the filter as shown and secure with a #60 hose clamp.



Tube #288 Installed

- 2 Slide the rotomold inlet tube and rubber coupler over tube #288. Secure with a #60 hose clamp.
- 13 Slide the rotomold inlet over the supercharger inlet. Secure with a #60 hose clamp.

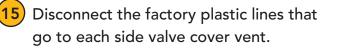


Plastic Inlet Installed

Contine To Next Page

29

Disconnect the line going to the port behind the throttle body on the passenger's side. Install the supplied 5/8" vacuum cap over the port and secure with a #10 hose clamp.





5/8" Vacuum Cap

(16) Use a razor blade to cut the plastic hose at the connection fitting of the factory PCV lines that attach to each side valve cover.



Factory PCV Connector (Driver's Side)

(17) The supplied 5/8 hose can be attached directly to the factory valve cover fittings. Secure with a #10 hose clamp.



Factory PCV Connector (Passenger's Side)

18) Route the passenger's side 5/8 hose in front of the radiator and across the front of the vehicle to one of the open ports on the air inlet tube tee fitting.



(19) Route the driver's side hose to the remaining port on the tee fitting.



Passenger's Side PCV Hose Routing

FINISHING UP

- Locate the supplied coolant reservoir tank. Using thread sealer, install the (2) 3/8" brass barb fittings into the 1/4" NPT bungs.
- 2 Using thread sealer, install the 3/4" 90° brass barb fitting into the 1/2" NPT on the bottom of the tank. The fitting should be oriented so that it is pointing towards the throttle body when intstalled.
 - Mount the coolant reservoir using the factory mounting location on the fan shroud, using the factory hardware. Connect the coolant lines to the barbs on the new tank and secure with the factory hose clamps.
 - Tech Tip: The large (3/4") cooling hose may need to be re-routed to connect to the fitting on the bottom of the new coolant reservoir. Ensure this hose is out of the way of any moving parts.
- 4 Refill the cooling system. The coolant level should be approximately 2" below the cap.
- **5** I

Install the supplied coolant reservoir cap.

Test fit and trim the top radiator cover to clear the radiator post on both sides.



Coolant Tank Bung Orientation



New Coolant Reservoir Mounted



Radiator Cover Trimmed

- Inspect belts and pulleys for clearance from all wires and hoses. Adjust and secure any hoses or wires that may be caught or abraded by the belts or pulleys. Verify the belt is properly tensioned. Any locations where steel tubes could abrade on the chassis should be cushioned with the supplied selfadhesive rubber strips.
- 8 Using the factory hardware, re-install the front bumper cover. Plug the fog light and turning signal harnesses back into the proper locations on the front bumper cover.

Remount the plastic undercladding.

10

Re-install the plastic radiator cover using the factory hardware.

11) Re-install the engine cover by aligning the cover over the engine and pushing downward until all four corners of the cover snap into place.



CONGRATULATIONS! YOU HAVE COMPLETED THE INSTALLATION OF YOUR NEW PROCHARGER SUPERCHARGER SYSTEM. READ THE FOLLOWING PAGES CAREFULLY FOR OPERATION AND MAINTE-NANCE INSTRUCTIONS, AS WELL AS WARRANTY INFORMATION.

OPERATION AND **M**AINTENANCE

Cold Starting

Never race your engine and ProCharger supercharger when your engine is cold. Allow the water temperature to climb into operating range for several minutes before driving above 2,500 rpm, to ensure adequate oil lubrication.

Fuel Quality

With a properly installed intercooled ProCharger supercharger system, detonation should not occur. For the best performance and reliability, use premium grade fuel (91 octane or higher). Listen for signs of detonation after refueling, and after replacement or modification of any fuel system component(s). If detonation occurs, reduce the throttle and locate the source.

Ignition System Maintenance

If your spark plugs are more than a year old or have more than 10,000 miles logged, you should consider changing them before driving your vehicle under load. Spark plug wires should be changed if visibly damaged or when resistance exceeds factory specifications.

Air Filter Maintenance

Your air filters should be cleaned periodically, potentially as often as every 10,000 miles or 6 months, even though a service interval of 50,000 - 100,000 miles is quoted by the manufacturer under normal driving conditions. A clogged air filter will result in decreased boost levels and vehicle performance. Be sure to reoil the cleaned filter before re-installing. Always operate your vehicle with an air filter, failure to do so may result in damage to your ProCharger supercharger and/or personal injury!

Belt Replacement

The serpentine belt, which turns your ProCharger supercharger, will stretch after initial run-in, and should be re-tightened after the first hundred miles. Tighten the belt sufficiently to avoid slippage, but do not overtighten. Overtightening the belt could cause damage to the ProCharger supercharger's precision bearings. When reinstalling the belt, use the belt routing diagram in this manual. If you reuse a thrown belt and find that it needs frequent re-tightening, the belt is damaged and should be replaced. Gates Micro-V belts can be purchased from ATI or from your local parts store.

ProCharger Oil Change Intervals

The first oil change should be performed at 500 miles and at 6,000 mile intervals thereafter. Clean the drain plug after every oil change. Drain the oil by removing the drain plug. Clean off the drain plug before re-installing.

ProCharger Oil Level

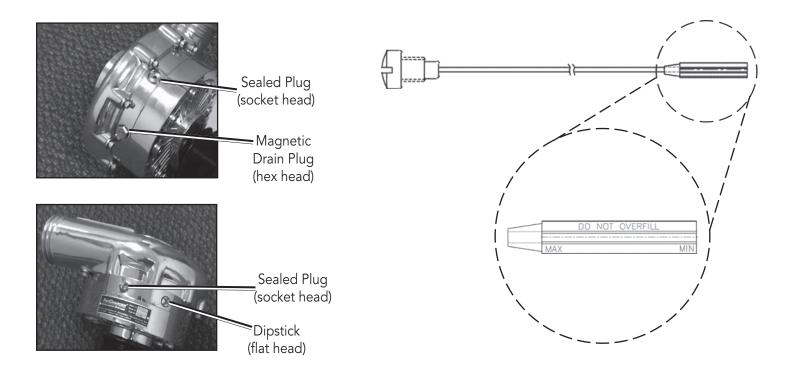
The ProCharger supercharger's oil level must be checked periodically to ensure the proper lubrication. The dipstick can be loosened using a flat blade screwdriver or a coin. When installed, the oil level should remain between the minimum (MIN) and maximum (MAX) indicators at all times.

Warning: Filling the ProCharger higher than the maximum level on the dipstick can lead to bearing and seal damage. The supercharger is a sealed unit and should not normally require the addition of oil between service intervals. If excessive usage is noted, the unit should be sent to ATI for inspection and repair. The dipstick fitting should be firmly tightened after changing or checking the oil level.

General

When removing the dipstick, be sure to retain the nylon washer. A spare nylon washer and o-ring is included. Use only the ATI supplied nylon washer and o-ring when servicing the oil dipstick and drain plug. A discoloration of the oil and residue on the drain plug may occur during the initial oil changes. This is normal and will gradually decrease. For the proper positioning of the ProCharger supercharger, the serial tag should be pointing upwards. Installing the ProCharger supercharger in another position will cause inadequate oiling and supercharger failure. If you have any questions about the maintenance of your supercharger, contact ATI.

> Warning: The supercharger contains no oil from the factory. The unit must be filled prior to use. Use only ATI supplied oil in your ProCharger. The ATI oil has been specially formulated for the bearings in the ProCharger and use of oil other than that supplied by ATI will void your warranty.



LIMITED WARRANTY

Accessible Technologies, Inc. (ATI) provides a limited twelve (12) month warranty on the ProCharger supercharger against defects in materials and workmanship unless otherwise specified. This limited warranty starts on the date of original purchase from your local dealer, or date of shipment from the factory. This limited warranty coverage is extended only to the original owner and excludes hoses, sleeves, and electronic components manufactured by other companies. IF THE SUPERCHARGER'S DRIVE RATIO IS ALTERED IN ANY WAY FROM THE FACTORY SETTING, WARRANTY COVERAGE IS VOID. USE OF ANY PULLEY NOT MANUFACTURED OR SUPPLIED BY ATI VOIDS ALL WARRANTY COVERAGE. ATI's warranty obligations are limited to the terms below:

ATI agrees to honor a warranty claim at its sole discretion and only after inspection at the ATI factory. No warranty will be honored if any part of the product is found to have been improperly installed, tampered with, mishandled, or misused in any way. Disassembly of the ProCharger supercharger or removal of the ProCharger supercharger's serial plate voids all warranties. Claims for freight damages should be directed to the freight company.

If ATI's limited warranty applies, your product will be repaired or replaced at ATI's discretion and shipped back. If the limited warranty does not apply, ATI will advise you of the specific reason, cost of the repair, and delivery time. After advising you of this information we will, at your option, either proceed with repairs or return your product to you in the state in which it was received. In either case the product will be shipped to you, insured at replacement value. Therefore, you will pay the return shipping and insurance charges if ATI's limited warranty does not apply to your product.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. THE DURATION OF ANY AND ALL WARRANTIES ON THE PRODUCTS DISCUSSED ARE LIMITED TO THE PERIOD IDENTIFIED ABOVE. ATI IS NOT RESPONSIBLE IN ANY EVENT FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. No ATI dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

To obtain service under this warranty you must do the following during the warranty period:

Phone ATI (913-338-2886) and provide us with the following information:

- ProCharger supercharger serial number.
- Vehicle year, make, model, engine modifications, and other modifications.
- Description of perceived issue.

If a solution to your issue can not be found after the above phone consultation, you will be assigned a return authorization number (RMA). You must then properly package and ship your product, at your expense, to the ATI factory. The product should be carefully packaged in a rugged box.

Include the following information inside the box with your product:

- Copy of your original invoice or receipt.
- Name, address, and daytime telephone number.
- Return authorization number (RMA).
- Vehicle year, make, model, engine modifications, and other modifications.
- Description of perceived issue.

Clearly mark the warranty claim number on the top and one side of the box in characters at least 2" tall. Properly package the product and ship it, prepaid and insured for the retail value of the component(s) being returned, to the following address:

Accessible Technologies, 14801 West 114th Terrace, Lenexa, Kansas 66215

PROCHARGER EXTENDED COVERAGE

The ProCharger Extended Coverage Program extends the ProCharger warranty coverage for your supercharger an additional twenty-four (24) months, for a total of thirty-six (36) months or three years of coverage. This extended coverage applies to parts for the ProCharger supercharger head unit only and does not include other system components. With your extended coverage registration, you will receive two (2) additional boxes of ProCharger Supercharger oil.

Under the extended coverage program, Accessible Technologies, Inc. (ATI) will repair or replace any component within the supercharger head unit which is found to be defective. Only the supercharger head unit itself is included in the extended coverage.

Service under the extended coverage program is obtained through the same process as described in the Limited Warranty.

Race kits are not eligible for the ProCharger Extended Coverage Plan.

To qualify for the ProCharger Extended Coverage:

- Only the original owner of the ProCharger supercharger is eligible.
- Completion of the Extended Coverage Registration Form is required, along with a \$99 registration fee. This form must be completed in its entirety, and must be submitted along with payment within 30 days from the date of original purchase from your local dealer or date of shipment from the factory.

- Participants must have a ProCharger P-1SC, P-1SC-1, P-1X, C1, or C2 supercharger head unit using the maximum warranted boost level. All terms and conditions within "The Limited Warranty" apply. Acts resulting in disqualification include but are not limited to the following:
 - Disassembly or modification of the ProCharger supercharger.
 - Removal or attempted removal of the ProCharger drive pulley(s).
 - Removal or attempted removal of the ProCharger supercharger serial number plate.
 - Removal or attempted removal of the compressor housing or transmission case.
- Participants agree to properly maintain the ProCharger supercharger and provide proof of compliance with the following recommended maintenance:
 - Change the ProCharger supercharger oil after the initial break-in period of 500 miles (automotive) or 15 hours (marine).
 - Change the ProCharger supercharger oil every 6,000 miles after the initial breakin period.
 - Use only the specified amount of ProCharger Supercharger oil in the ProCharger supercharger.
 - Inspect and clean the magnetic drain plug at every ProCharger supercharger oil change.
 - Check the ProCharger supercharger oil level frequently.

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ProCharger Extended Coverage Program Registration Form

Return this completed form and a \$99 check within 30 days of original purchase.

Name:	Date of Purchase:	
Address:	Purchased From:	
City:	ProCharger Serial #:	
State: Zip:	Vehicle Year:	
Daytime phone:	Vehicle Make:	
Evening phone:	Vehicle Model:	
E-mail:	Please rank in order of importance starting with	
Age18 - 2425 - 3435 - 4445 - 5455 and upIncome\$15,000 - \$29,000\$30,000 - \$44,000\$45,000 - \$69,000\$70,000 and upWhat magazines do you read?Car & DriverCar & CraftChevy High PerformanceFour Wheel and Off RoadHot RodMotor TrendMuscle Mustangs and Fast FordsSuper StreetMustang MonthlyTruck TrendsPopular Hot RoddingRoad & TrackSuper ChevyTruckin'Street Truck	 1 being most important. Which information sources most influenced your decision to purchase a ProCharger system? Magazine advertising Dealer recommendation ProCharger Brochures Witnessed performance on a car Test drive Magazine editorials Friends Conversations with ATI technicians Web Site (please specify)	
Who installed your ProCharger system?	Dealer Other	
Have you own a forced induction system previously? If yes: Supercharger: Brand(s)	□ Yes □ No Vehicle(s)	
Turbocharger: Brand(s)	Vehicle(s)	
I have read and understand the policy for the ProCharger Extended Coverage Program. I have		

I have read and understand the policy for the ProCharger Extended Coverage Program. I have not and will not modify my ProCharger supercharger in any way during my participation in the extended coverage program. I have read and answered all questions on this form. I have enclosed my check for \$99, payable to ATI, for enrolling my ProCharger supercharger (serial number indicated above) in the extended coverage program for an additional twenty-four (24) months beyond the standard limited warranty period of twelve (12) months.

Signature_

Date

Mail this completed registration form with a \$99 check to ATI at: 14801 West 114th Terrace, Lenexa, KS 66215. If you have any questions, contact us at techserv@procharger.com or (913) 338-2886 8:30 AM - 5:30 PM CST, Monday - Friday.

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Accessible Technologies, Inc. 14801 W. 114th Terrace Lenexa, KS 66215 Phone: 913.338.2886 Fax: 913.338.2879 techserv@procharger.com

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