



## **Instructions for Installation of Powerdyne Supercharger in the Impala SS(94-96)**

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### **To: INSTALLER**

Please review the following requirements for installation **before** beginning. Your computer **will** require new programming based on the modifications you currently have. **Please complete the technical data sheet supplied from Fastchip and send it with the PCM directly to Fastchip at 1114 West 41<sup>st</sup> ST., Tulsa, OK. 74107.**

The controller for the anti-lock brakes needs to be relocated. Our suggestion is to carefully move it to the driver side fender below the existing master cylinder(See video). Be **very careful** bending the brake lines to assure they are not crimped or closed off. Review and familiarize yourself with all the necessary components.

You will also need coolant to replace the loss you will experience when removing one of the water pump bolts. Be sure to shield your electronics below the water pump to eliminate any possibility of failure due to fluids.

Step 1. Remove the air temperature sensor and small vacuum hose from the stock elbow. These will be reconnected after installation is complete.

Step 2. Carefully disconnect the MAFS and lay aside.

Step 3. Remove the Home plate and existing induction up to and including the filter box.

Step 4. Remove washer fluid reservoir. [This reservoir cannot be re-installed due to the needed space for the supercharger installation.](#) Smaller aftermarket bottles and pumps are available if necessary.

Step 5. Following the installation instructions provided from March, complete the installation with the new S/C Pulley on the outside as required with serpentine drive belt in place. Using the three 7/16-14 x 3-1/2" Stainless Hex Head bolts and lock washers. Also, be sure to install the smaller alternator pulley(will require impact wrench)(See video)

Step 6. Remove the four outside corner water pump bolts as noted.(See video)

Step 7. Using the four 3-5/8" spacers and the one 6" spacer install the 1/2" thick aluminum mounting plate. Will need four of the 8" long and one 8-1/2" stainless Hex Head bolts, flat washers, and lock washers.(See video)

***Step 8. Loosen the bolts on the outer edge of the S/C unit so that it can rotate. Assemble the supercharger onto the mounting plate using the stainless 3/8-16 x 1" Hex Head bolts, and lock washers provided. Clock the unit to about 10:00 if you are in front of the car looking back. The outlet will be approximately 1/2" above the longest spacer facing the throttle body. Tighten the bolts around the edge of the unit. May be easier if you remove the unit all together and reinstall.***

Step 9. Place the new pulley tensioner on the plate with one slot under the bottom right hand water pump bolt(8-1/2") and the other slot over the curved cut out in the plate. The 1-3/4" length bolt will be used to tighten up the other side up when the belt is in place and pulled tight.

Step 10. Using the 4" black hose provided and two #64 SS hose clamps attach the new elbow to the throttle body.(blow off valve and temperature sensor holes should be on the passenger side)

Step 11. Using the two 3" Aluminum 90 degree bends, three 3" hose fittings and six SS #48 hose clamps attach the outlet on the supercharger to the new elbow. Align and tighten as needed.(see video)

Step 12. [Attach one of the 3-1/2" 90 degree Aluminum elbows to the rear of the supercharger using one of the 2" long x 3-1/2" rubber hose fittings along with the #56 SS hose clamps. Face the elbow straight up. \(different from video\)](#)

Step 13. Using the other 3-1/2" Aluminum 90 degree elbow, 2" long x 3-1/2" hose fitting, and two #56 SS hose clamps attach to the two elbows and turn towards the front corner above the computer. (different from video)

Step 13.5 Attach the 3-1/2" SS pipe with the by-pass valve connection(3/4" nipple) on the bottom to the 3-1/2" 90 degree aluminum elbow using the supplied hose fittings (2-1/2" long x 3-1/2").(see video)

Step 14. Attach the MAFS to the 3-1/2" SS Pipe using the 2-1/2" long x 3-1/2" rubber hose and SS #56 clamps provided. (Be sure the air flow through the MAFS is correct)

Step 15. Attach the K & N Filter to the MAFS. (see video)

Step 16. Attach the small K & N filter to the inlet side of the air pump using the SS #10 hose clamps provided. Re-install the short pipe around the plate into the air pump.

Step 17. Attach the 3/16" by-pass vacuum line to the intake using the small plastic "T" provided just before the fuel pressure regulator.(see photo)

Step 18. Insert the blow off valve into the hole on the passenger side of the 4" rubber fitting facing down.(this has been changed from the video)

Step 19. Using the 42" long hose 1" diameter, attach the blow-off valve to the fitting on the bottom side of the 3-1/2" SS pipe just before the MAFS. Route this hose under the charger itself and behind the plate as room permits.(see video)

Step 19. Using a 3/8" hole punch, make a 3/8" hole on the passenger side of the 4" black hose between the new elbow and the throttle body to install the air temperature sensor.(hole may be already punched, please check before duplicating)

Step 20. Using a 1/8" hole punch, make a 1/8" hole needed to install the vacuum line that feeds into the 3-1/2" black hose just after the MAFS.(see photo)

Step 21. Install the 59" belt over the new March crank pulley and route as required around the standard accessories with stock belt tensioner.

Step 22. Install the new 54.7"(6.0# kit) belt and tighten the pulley tensioner as needed.

Step 23. Install the new upper radiator hose. Trim as needed on each end to make fit to your desires.(every individual taste is different) That's why we leave both ends plenty long for fitment. Fill the radiator with the proper amount of coolant and check for leaks.

Step 24. Be sure that all connections are complete and that you have watched the video in its entirety to assure the proper alignment and completion of this kit. It is recommended to replace your plugs with two heat range colder rated plugs and gapped to .035.

**Step 25. Connect the upgraded computer.**

You should be finished. We hope that your installation has gone smoothly and will give you many years of trouble free performance. Please don't hesitate to call for additional help. We will get back with you as soon as possible. Powerdyne's Tech line is (661) 723-2800. We are open from 7am to 3:30pm PST. Monday thru Friday.