



928 Motorsports Supercharger Installation

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Mounting the Raptor Fan Assembly:

Your Raptor supercharger is the only air-cooled centrifugal supercharger in the world. Where many supercharger head units use hot engine oil to cool the bearings, the Raptor uses much colder air from in front of the radiator to cool the bearings. This increases bearing life, but more importantly, it lowers the temperature of the charged air significantly to add HP and engine safety to your installation.

Before we proceed, let's check that the grille and louver system is correct, and change it as needed.

1987 to 1990 with Moveable Grille Louvers: Porsche 928's from these years were equipped with movable grille louvers operated by an electric motor mechanism. This system was known to cause over-heating when it failed and was discarded by the factory in 1991. As a service bulletin, all 928's that had moveable louvers were upgraded to the later version (1991—1995) with fixed louvers.

Your 928 may or may not have the upgrade in it. Here is what to look for: >>>>

If you see this electric motor on your 928, your car still has the removable louver system in place.



Take a moment now to remove that electric servo motor and unplug the wiring. Remove the mechanism, and affix the louvers in the wide-open position.

1991 to 1995 with Fixed Grille Louvers:

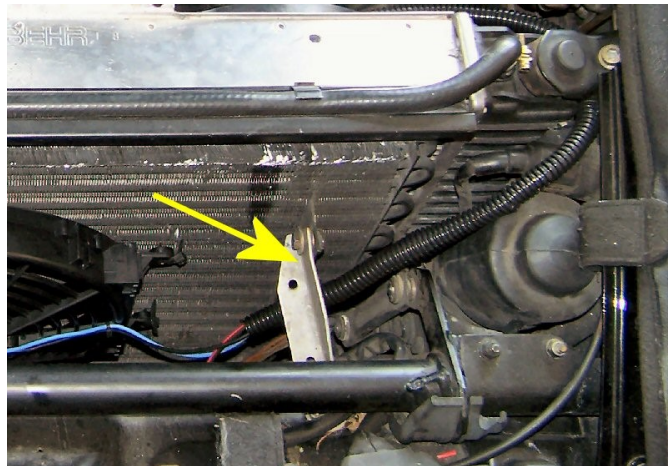
Looking through the front louvers on your fixed-louver 928 you will see a pair of vertical supports right behind the louvers themselves. We will be attaching the cooling fan blower for the Raptor to the one on the driver's side of the car.



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You may want to loosen the bracket shown in this picture and swing it to the side. That will give you more room to work on the louvers and to place the Raptor cooling fan in front of the radiators.



Before you mount the Raptor cooling unit, take the 1" convoluted tubing within your kit and push it into the hole in the side of the fan assembly. Also locate the wiring for this fan—it is red and black and bonded together. There are two of these wire sections in your kit. The one with the heavy wires are for the fans, the smaller one is used here on the Raptor fan. Attach the wires to the junction block on the side of the fan assembly now.

You can mount the Raptor cooling fan anywhere in front of the radiators. Simply secure it in place with the long cable ties provided.



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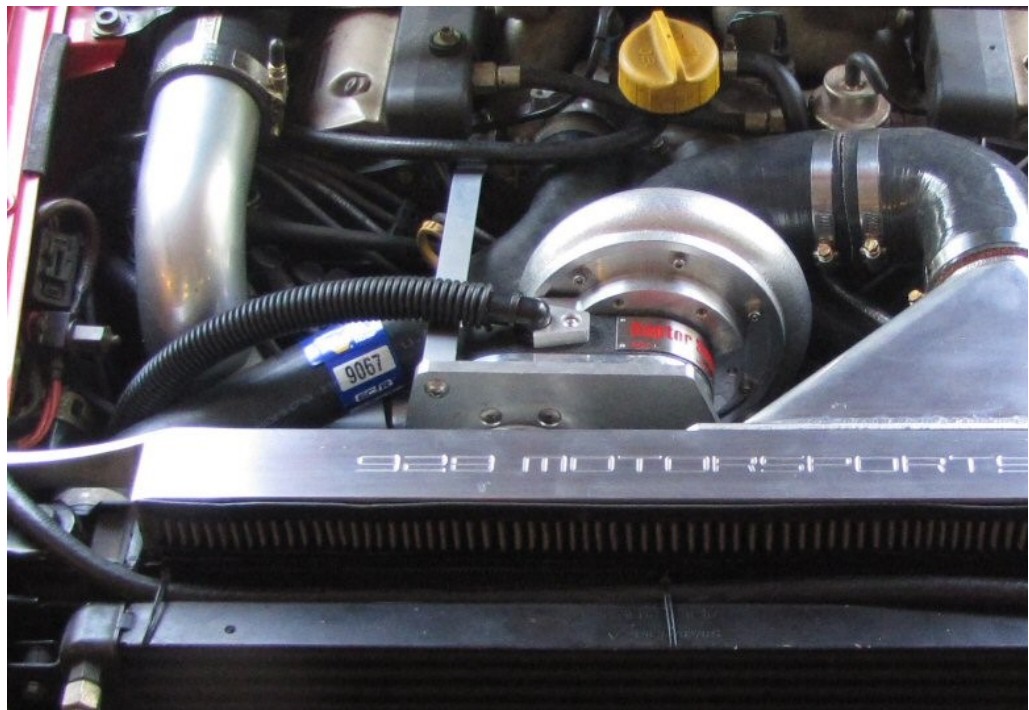


Route the tubing as shown across the front of the radiator, around the right side between the radiator and the inner fender, and to the Raptor.

Push the tubing over the black barbed nipple provided on the top of the Raptor. You will have to push hard! You will need to trim this tubing to length, we sent you more than you need.

Secure the flex tubing in several places along its run so it cannot get loose.

Later, when the fans are on and you want to “test” to make sure the supercharger is receiving cool air across the bearings, simply loosen the screw on top that holds the black nipple in place to check for air movement while the ignition is on. You should feel a gentle breeze coming out.



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