



The following photos and instructions are to install the
928 Motorsports, LLC.

Intake Manifold Spacers

For the 1987-1995 Porsche 928



Questions? Call our toll free number 877-FOR-928M
or send an e-mail to info@928motorsports.com

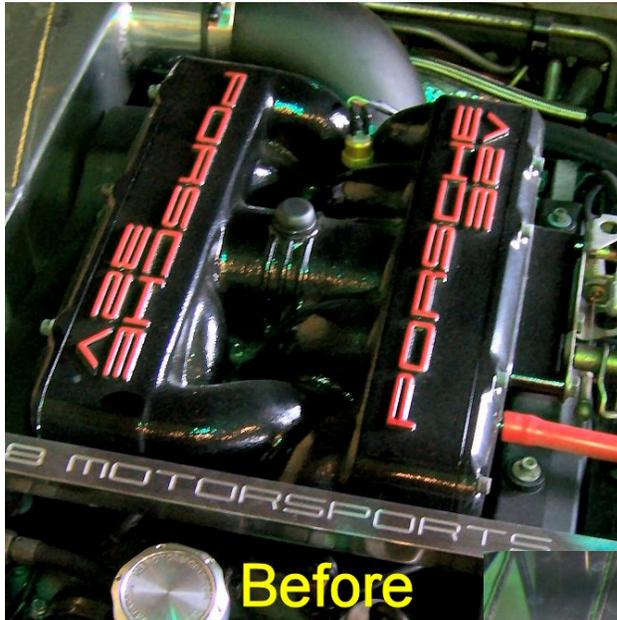
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Intake Manifold Spacer Installation

For 1987 to 1995 32v Porsche 928 Only

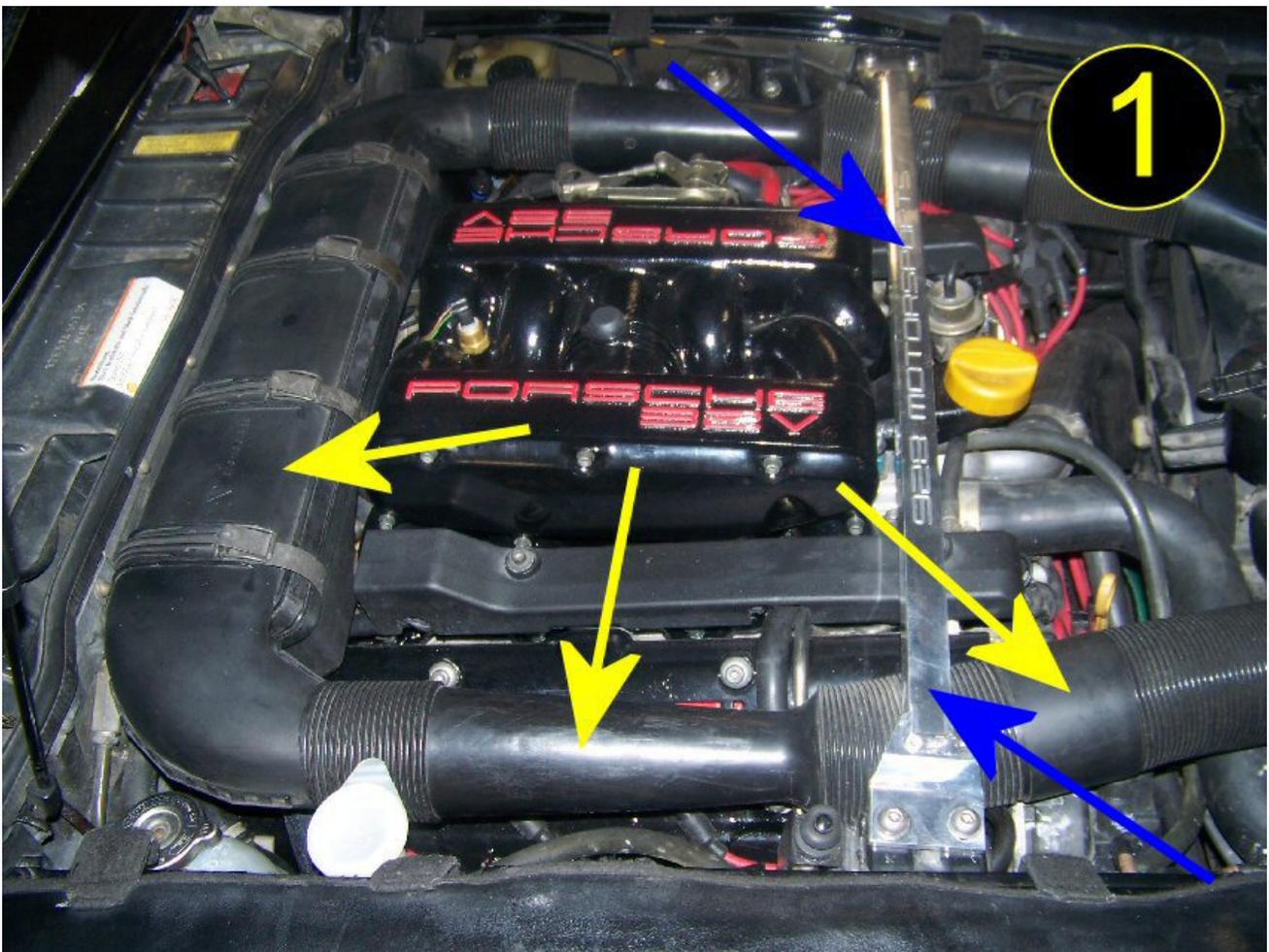


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Start by removing the plastic cold air intake tubing and the top of the air filter housing as shown by the yellow arrows in Picture 1. The tubes just pull off, and the top of the air filter housing is secured with rubber hook straps.

Also remove the strut brace as shown by the blue arrows.



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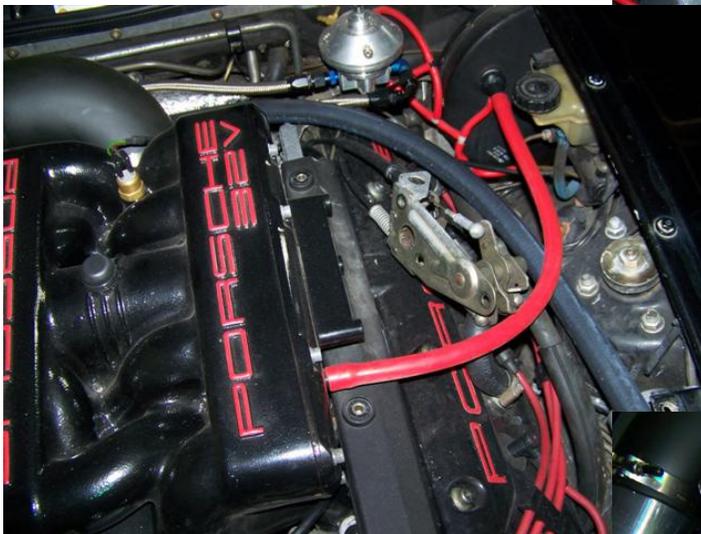
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To begin, remove the suspension cross-brace and the cold air intake tubes from the top of the radiator to the air filter box.

Start by doing the left side only.

Unbolt the throttle cable bracket from the left side of the intake manifold, and set them aside. It is held on with three 13mm bolts.



Remove the vacuum hose from the side of the left side intake

Remove the two allen-head screws that secure the fuel rail cover, and remove the fuel rail cover.



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Remove the fuel rail. Our goal will be to remove the rail only, leaving the injectors in the intake manifold so we do not have to disturb those o-rings nor remove all the injector wiring.

Use a 15mm and a 19mm wrench in opposition on each end of the fuel rail to break open the connections. Stuff a rag under each connection to catch the gasoline that will pour out of the rail.



Use a 10mm socket to remove the two nuts that hold the fuel rail down to the manifold. These nuts are located behind the fuel rail—on the intake manifold side.

Use a needle-nosed pliers to remove the upper clips on each of the 4 injectors that secure the injector to the fuel rail.

With a suitable crowbar, pry up on the bottom of the fuel rail while wiggling the fuel rail to dislodge it. Place a block of wood or similar under the crowbar where it is pushing on the camshaft covers so you do not damage them. An assistant is helpful at this time to keep the injectors down while you pry the fuel rail up.



If the fuel rail has not been removed in a long time, you will be surprised how tight it can be seated! Lift off the fuel rail, and set it to the side.

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Remove the allen-headed screws that secure the side cover to the manifold, and remove the cover.

Locate the correct spacer that matches the side cover you just removed. Test-fit it to the side cover, so you know which side faces in toward the intake manifold.



Using the gasket sealant provided in your kit, put a film of sealant on the side of the spacer that faces the manifold.

A dab of sealant in a few places on the side cover will make it easy to hold the o-ring in place while you assemble it.



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Mount the side cover with spacer to the manifold and secure it with the new screws provided.

When tightening the screws, some sealant may squish out of the gaps and appear unsightly. Use the rags that caught the gasoline at the fuel rail to wipe it off—the gas will neatly dissolve the uncured gasket sealant.

Re-install the fuel rail.

The fuel rail cover is optional. If you would like to put it back on, you may need to make two small cuts on the backside of it to allow for the heads of the allen screws. Check for fuel leaks as below **BEFORE** you put the fuel rail cover on.

Re-install the throttle cable plate, and the vacuum hose.

Now follow the same steps on the right side of the engine to install the intake spacer over there.

IMPORTANT STEP

CHECK FOR FUEL LEAKS.

When you start the engine again for the first time, wipe your finger around and underneath every fitting and fuel connection. It must always come up dry. If there is any leakage, **STOP**, shut off the motor, and correct it!



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