

SP Diesel Performance Intake Kit Installation Instructions

Thanks for your purchase!

The staff at SP Diesel Performance thanks you for your recent purchase of the SP Power Box. We are sure you will find all SP products to be an exceptional value for your dollar. We have designed all SP products to be easy to install, while offering you the same or nearly the same results of similar, higher dollar products.

Before you begin

Before you begin installation you should make sure you have at least a basic understanding of tools and items in and around your engine bay. You don't need to be an expert with our instructions but, if you aren't comfortable, try and find a knowledgeable friend there to lend support, or if all else fails we are available by email and phone. On a scale of technical difficulty, installation of the SP Performance Intake Kit is a 1 on a scale of 10 (10 being the highest). Also as with any modification to your truck, **remove the key from the ignition**. Pictures are supplied at the end so you can print them out and keep them next to the text directions for easy reference. All picture references will be noted in the instructions.

Parts List

See the below chart for a complete list of parts. Optional parts are noted as such in the list.

- 1 SP Diesel Performance Intake Filter
 - 1 SP Diesel Intake Adapter
 - 1 SP Diesel Stainless Steel Constant Torque Clamp
 - Installation Instructions Provided via website
 - Zip Tie Assortment
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Tools List

See the below chart of tools recommended for installation.

Tool	Purpose
Long-Nose Pliers	Because they come in handy!
Metric hex bits (6-10mm)	Used to loosen hex screws in the battery box.
Screwdriver	Good prying mechanism!
WD-40 or a dab of motor oil	Used to grease the joints of the SP intake.
Zip Ties	Used for fixing the Intake Air Temp sender to the fuse block
Wood Block or Soft face hammer	Used for tapping intake adapter into place.

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SP Diesel Performance Intake Kit Installation (continued)

**Pop the hood,
take a gander**

Pop the hood of your truck and take a look at the left side of the truck (right side as you are looking at the engine bay), and familiarize yourself with the area just behind the battery. This is your stock airbox location, and you will be removing this.

**Flip the
catches on
the airbox
open**

Flip them open and release the metal arms from under the lower portion of the airbox.

**Remove top
assembly**

Remove the top half of the airbox assembly by unscrewing the nearest hose clamp with a flat-head screwdriver or 8mm hex bit until till loose (not all the way off) and releasing the hose from the box lid. Lift up on the box and pull out towards the middle of the truck.

**Remove the
Intake Air
Temperature
Sensor**

Locate the intake air temperature sensor located on the aft-end of the airbox lower half. Twist the sensor carefully using your hand or pliers (remember what we said about careful) till it releases. Push it out of the way with your hands.

**Locate and
remove four
hex bolts**

Locate the four 8mm hex bolts that fix the airbox lower half to the battery tray. Two are located on a flange in between the battery and the airbox, and the other two are in the bottom of the airbox. Unscrew them completely and set the bolts aside.

**Remove lower
half of the
airbox.**

With a little wiggling and tugging, gently remove the airbox lower half from the engine bay and set it aside with the rest of the airbox. Reassemble the airbox with filter inside, and tape the bolts you removed inside the airbox for easy retrieval in the event you should put the stock box back in.

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SP Diesel Performance Intake Kit Installation Instructions (continued)

Install Adapter Pipe to Filter

Your filter adapter has been seated from the factory for shipment purposes only. We recommend reseating the adapter using the following procedure:

- Remove the constant torque clamp from the air filter.
 - Gently work the adapter free.
 - Put a small amount of oil on your finger (your motor oil is recommended)
 - Rub the inside flange of the air filter with your finger.
 - Place the adapter pipe in the flange.
 - Tap on the free side of the adapter with a block of wood and hammer or soft face mallet till a good seat is achieved (do not use excessive force, be gentle but firm)
 - Retighten the constant torque clamp on the filter flange. Snug and Firm, don't try to twist it into oblivion.
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Mount the Filter Assembly to the Intake Pipe

Take your new SP Diesel Performance Intake Kit and install it to the stock intake tubing. Retighten the band clamp you loosened in the first step. Check to ensure you have a good solid seating. Keep it out of the way of any potential hot wires during this process. The metal on the filter screen can conduct electricity if touching any wires on your vehicles 12v electrical system.

Mount the Intake Air Temp Sensor

Using a long zip-tie attach the sensor to the fuse block directly near the sensor.

Place your filter in the airbox location

Gently place the filter assembly in place of the old airbox. Careful that you don't accidentally short any hot and ground wires from the battery or otherwise during the installation. Check to make sure the filter sits in the spot firmly and out of the way of any hot wires. Use 3 zip-ties in series to affix the filter in place by putting your zip-ties around the belly of the filter and through a mounting hole on the airbox flange.

Disclaimers

Like any other products SP Diesel cannot be held liable for incorrect installation. Installation of performing enhancing products is solely at your own risk. Check your local diesel emissions laws prior to installation. Except in cases of gross negligence the buyer holds SP Diesel Performance harmless.

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SP Diesel Performance Intake Kit Installation Instructions (continued)

Get some gauges

Due to the variances in Fords stock engine and transmission programming, any performance product can have varying results on Exhaust Gas Temperatures (EGTs). For that reason we recommend the use of a pyrometer and or other gauges on your truck. It is HIGHLY unlikely that the addition of an intake system will cause any increase in EGTs, in fact all experience shows a reduction in EGTs, but we must put this disclaimer in place, since we know you aren't going to stop with just an intake...Just a few more Horsepower and I will stop..SURE...!

Remove before servicing

SP Diesel recommends you remove the SP Performance Intake Kit and/or any other SP Diesel product prior to visiting the dealer. This avoids confusion from the dealer who may not be familiar with these products. These products can also interfere with the normal troubleshooting procedures that are used in fixing some common engine problems. We have designed the Performance Intake Kit to be a snap to take out and install repeatedly so please take the 5 minutes and save your dealer the headaches.

Improve your airflow

If you look at the front of the grille of the truck, you will see a small opening in the left side of the truck. This is the stock intake opening...kinda small huh? If you are feeling adventurous, use a hole saw to expand this opening. Before you begin, stuff a rag in the intake tract near the opening to prevent dust from entering the intake system. We have expanded ours to about 2 inches wide by 4 inches long. We used two stacked hole-saw cuts to make this opening, and then trimmed it using a coping saw. Don't forget to clean the dust up.

Note: We neither recommend nor discourage this modification, as it does increase the chance that some water can enter the intake system. This is simply an option to help improve airflow. The installation of the open element intake reduces the chance of water intrusion during normal driving, but there's no sense in testing its limits. Don't drive through excessively deep water whether you have modified your truck or not. It's an expensive engine, with an expensive repair bill if you hydro-lock it due to water intrusion.

Contact Information

You may contact SP Diesel in case of technical assistance, orders, or questions through the following:

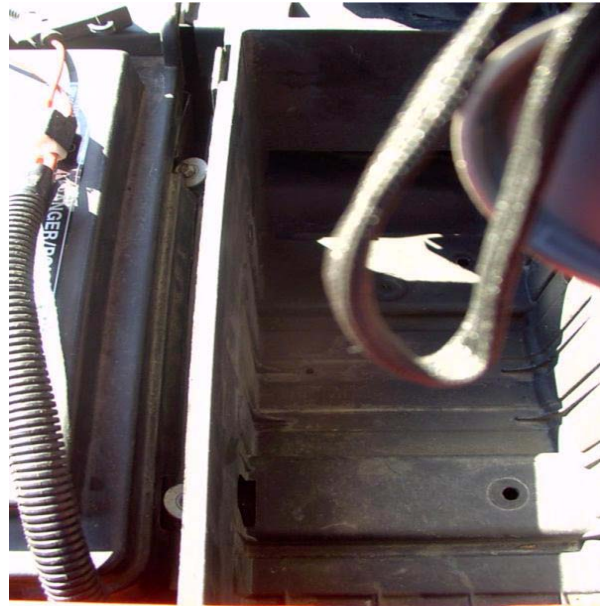
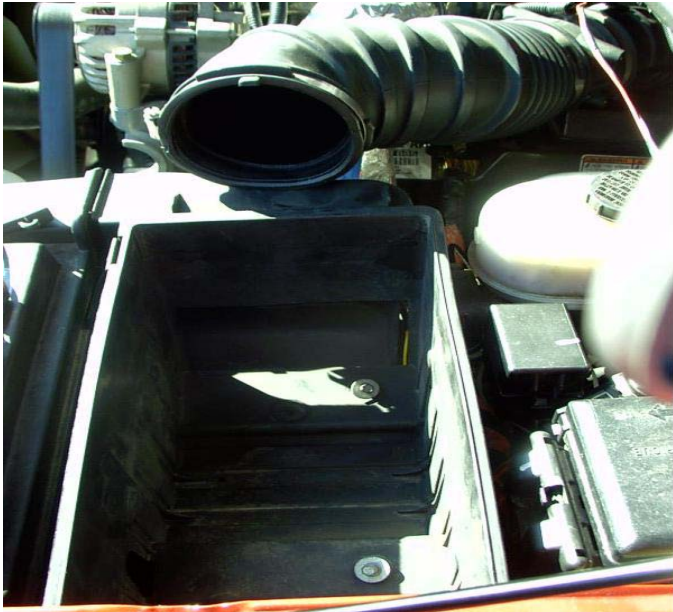
<http://mywebpages.comcast.net/spdiesel/spSmokin.html>

spdiesel@comcast.net

SP Diesel Hotline: 410-375-9570

SP Diesel Performance Intake Kit Installation Pictures

Install Photos Photos shows after top box lid is removed, and bolt locations are shown. They should be very easy to remove.



IAT Relocate and Finished The left photo shows where to put the IAT sensor and the photo on the right shows the finished product.

