

# SPEED BY SPECTRE™

## Intake Installation Instructions

### P/N 9943

#### Year/Make/Model/Engine

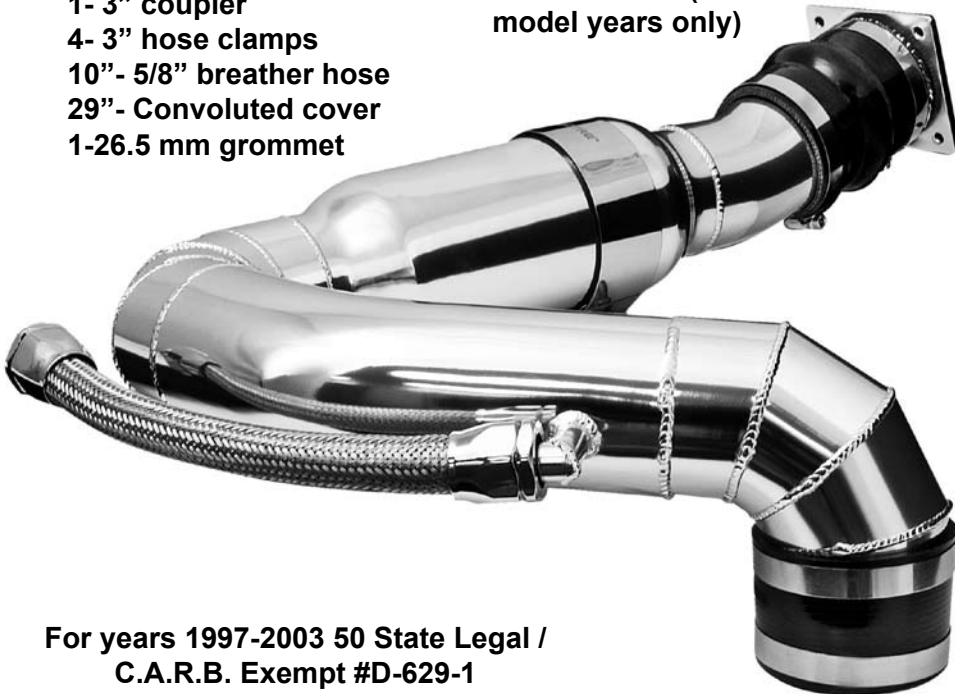
1997-2006 Jeep Wrangler TJ 4.0-6 cylinder

#### Parts List

- 1- Long Intake Tube
- 1- Short Intake Tube
- 1- 889833 Filter
- 1- T-bolt band clamp
- 1- Band clamp sleeve
- 1- 3" Silicone hump hose
- 1- Plastic duct mount
- 1- Aluminum duct mount
- 4- Self-tapping screws
- 1- Throttle body adapter ring
- 1- 3" coupler
- 4- 3" hose clamps
- 10"- 5/8" breather hose
- 29"- Convoluted cover
- 1-26.5 mm grommet

#### Tools Required:

- Flat blade screwdriver
- 1/4" drive ratchet
- 5/16" or 8mm deep socket
- 10mm socket
- 6 inch extension
- 5/16" or 8mm nut driver
- 3" hole saw
- 1/8" Drill bit
- Drill
- 3/4" drill bit (2005-2006 model years only)



For years 1997-2003 50 State Legal /  
C.A.R.B. Exempt #D-629-1

Other years (2004-2006) CARB Exempt-No  
Products that are not CARB exempt are  
legal in most states, but may not be used in  
California or states with similar emissions  
control laws.

#### ATTENTION!

**READ THIS BEFORE  
BEGINNING THE  
INSTALLATION OF THIS KIT.**  
This is a fresh air intake  
system which draws cold air  
from the cowl of your Jeep.  
In order to access this area, a  
3" O.D. hole must be drilled in  
the firewall. Note that this will  
increase the noise in the cab  
of your Jeep, mostly at idle, as  
the cowl area is the also the  
source of air for the ventilation  
system. It is very important  
that this hole is located as  
high as possible (see step 11  
for details) to eliminate the  
possibility of water entering  
the intake. If installed properly,  
the water that enters the cowl  
area will not reach the inlet  
of the intake and will flow  
out the cowl drain. This drain  
tube **MUST** be inspected  
periodically and cleaned of  
all debris. Failure to properly  
maintain the cowl drain could  
result in water entering the  
intake tube and causing  
serious engine damage.  
**SPECTRE PERFORMANCE  
IS NOT RESPONSIBLE FOR  
WATER ENTERING YOUR  
ENGINE.**

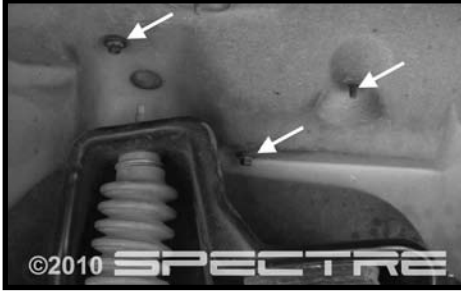
This intake system includes a Spectre high-  
flow hpR lifetime filter. It is factory pre-  
oiled and ready for use. Visit our website  
[www.spectreperformance.com](http://www.spectreperformance.com) for cleaning  
instructions.



**Step 1**  
**Safety first! Before you begin the installation, make sure that the vehicle is in park with the parking brake set. Disconnect the negative battery terminal and verify all components listed are present.**



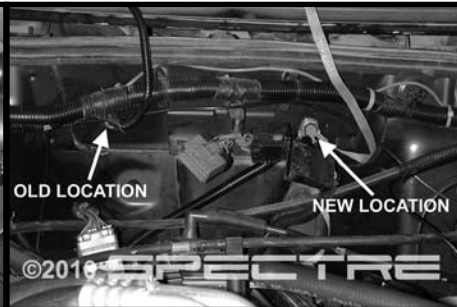
**Step 2**  
**Loosen clamp at throttle body. Remove the valve cover vent hose from the 90° fitting. If present, disconnect the I.A.T. electrical connector. Unclip the air box cover and lift the entire assembly from engine.**



**Step 3**  
**Remove the air filter and locate the three mounting nuts on the inside of the fender well. Remove the nuts and remove the air box base from the engine compartment. The pictured components will now be out of the engine compartment.**



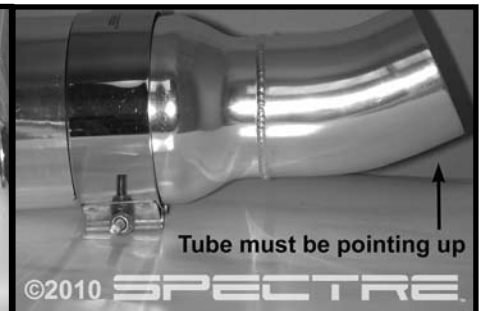
**Step 4**  
**Follow the negative battery cable to where it mounts to the firewall and remove the bolt.**



**Step 5**  
**Remove the negative battery cable from the factory harness by cutting the tape on the wire sheath and sliding it out. Install the supplied convoluted tubing over the battery cable. Locate the pictured bolt, just to the left of the two wire harness plugs and remove it. Route the negative cable behind the cylinder head. Install the bolt as shown in the picture with the star washer between the body and the negative cable. Tighten the bolt.**



**Step 6**  
**Install supplied throttle body adapter ring over throttle body. Install the throttle body coupler over the adapter ring and secure with a supplied 3" clamp. Install a second clamp but do not tighten at this time.**



**Step 7**  
**Assemble the intake as shown. First, insert the filter into the large housing – small end first. Place the band clamp sleeve over the tube/filter assembly and slide the small tube into the sleeve. Position the inlet so that it is pointing slightly upwards as shown and tighten the T-Bolt clamp.**



**Step 8**  
Take the assembled intake tube and install on the throttle body. Position the assembly as shown so that the inlet is facing the firewall.

**NOTE:** For later models years the firewall is slightly different than shown. Also, the wire harness bracket may differ from the one in the pictures and you may have to trim, bend, or move this bracket to clear the intake tube, once it is in place.



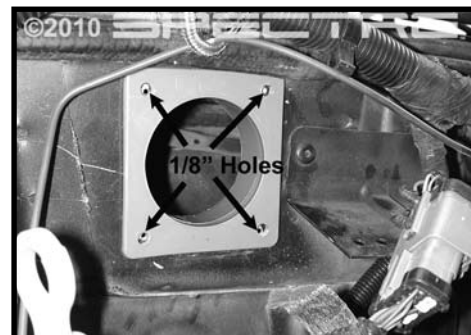
**Step 9**  
Once you have the intake tube in place, take the duct mount (with the coupler installed) and place it on the firewall as high as possible where it lines up with the assembled intake tube. You will need to move the wiring harness out of the way.



**Step 10**  
Hold the intake tube assembly up as high as possible against the cowl rubber molding. The flange of the mount should be just making contact with the cowl moulding. Mark along the edges of the duct mount so that you can replace it in the next step without the intake tube in place. With your duct mount located with the marker, you can take the assembled intake tube off of the vehicle for now. Using the marks, place the duct mount back on the firewall in its proper location and trace the center of the mount to locate the 3" hole. Before continuing, make sure the top of the hole will be no more than 1/2" below the cowl molding.



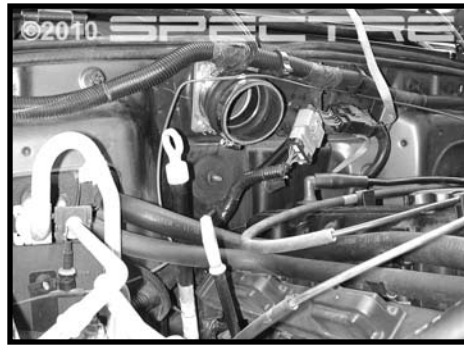
**Step 11**  
In this step, you will be using a 3" hole saw to make a hole in the firewall for the fresh air source. It is very important that this hole be as high as possible. BEFORE DRILLING, VERIFY THAT THE TOP OF THE HOLE WILL BE NO MORE THAN 1/2" BELOW THE COWL MOLDING AND THAT THE BOTTOM OF THE HOLE WILL BE ABOVE THE BEND IN THE COWL. Move and secure all wiring away from this area. A bungee cord can be used to keep the wiring away from the area to be drilled. Locate the center of the traced circle and drill through the firewall into the cowl area. Use care in removing the piece of firewall as the edges are HOT AND VERY SHARP!



**Step 12**  
Install the supplied plastic duct mount into the hole. Use the duct mount as a guide and mark the locations of the 4 mounting holes. Drill 1/8" holes at each of these locations.



**Step 13**  
Install the supplied aluminum duct mount facing outward on top on the plastic duct mount previously installed inward and secure with the four supplied self tapping screws.



**Step 14**  
Install supplied silicone hump hose on aluminum duct mount and secure with supplied clamp. Install a second clamp on hump hose but do not tighten at this time.



**Step 15**  
Install complete intake tube/filter assembly into the hump hose then lower it down to the coupler on the throttle body. It may be necessary to rotate the short inlet tube slightly. If so, loosen the T-Bolt clamp and rotate. Tighten the clamp at the throttle body coupler first and then tighten the clamp on the hump hose.



**Step 16**  
If your vehicle came with an I.A.T. sensor, you will need to drill a hole in the intake to install it. If not, skip to Step 17. Remove the sensor from the stock intake tube and remove the o-ring from the sensor. Determine the best location for the sensor in the area shown in the picture, making sure that it will not interfere with any other components and the wiring harness will reach. Remove the intake assembly and drill a 3/4" hole at the marked location (remove all burrs and clean out any metal shavings before continuing.) Install the supplied grommet and insert the sensor (it may be necessary to use a small amount of silicone spray on the grommet as it will be a tight fit.) Reinstall the intake assembly as shown in Step 15.



**Step 17**  
Install the supplied 5/8" breather hose as shown. Ensure that all clamps and hardware are fully tightened at this time. If necessary connect the IAT sensor wires at this time.

**Step 18**  
Start vehicle and let warm up. Shut off and inspect the installation once more for any loose clamps or wires. Test drive & enjoy!

**\*NOTE**  
*If you live in an area where it snows, be sure to clear the cowl at the base of the windshield of any snow before starting your vehicle.*

If you have any difficulties or questions regarding the installation of this intake system, contact the Spectre Performance Technical Department by email - [Tech@spectreperformance.com](mailto:Tech@spectreperformance.com) or by phone 1-800-821-4868 Monday thru Thursday 6:00am to 4:30pm PST.

Product Info:  
Performance Air Induction  
System P/N 9943

**SPEED BY SPECTRE**

(909) 673-9800

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