Intake Installation Instructions
P/N 9943

Year/Make/Model/Engine
1997-2006 Jeep Wrangler TJ 4.0-6 cylinder

ATTENTION!
READ THIS BEFORE BEGINNING THE INSTALLATION OF THIS KIT.
This is a fresh air intake system which draws cold air from the cowling 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 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.

For filter reorders ask at the special order counter of your local parts store or call: 1-909-673-9800
ask for: P/N HPR9833

Parts List
1- Long Intake Tube
1- Short Intake Tube
1- Air Filter
1- T-bolt band clamp
1- Band clamp sleeve
1- 3” Flex boot
1- Plastic duct mount
1- Aluminum duct mount
4- Self-tapping screws
1- Throttle body adapter ring
1- 3” coupler
4- 3” hose clamps
1- 5/8” breather hose
1- Convoluted cover
1- 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)
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
Install the flex coupler and plastic duct mount onto the inlet. Take the intake assembly and install it on the throttle body. Position the assembly as shown so that the plastic duct mount is against the firewall.

Step 9
Hold the intake tube assembly up as high as possible against the cowl rubber molding. Ensure that the bottom of the mount is higher than the bend in the firewall, which is the base of the cowl area. Mark along the edges of the duct mount so that you can replace it in the next step without the intake tube in place. DO NOT CUT INTO THE AREA BELOW THE BEND!

Step 10
With your duct mount located with the marker, you can take the assembled intake tube off of the vehicle for now. At this point mark the center of the mount to locate the 3” hole. Before drilling, make sure the top of the hole will be no more than 1/2” below the cowl molding. Find the center of your 3” hole for your hole saw so that you drill in the proper place. 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. AGAIN, VERIFY THAT THE TOP OF THE HOLE WILL BE NO MORE THAN 1/2” BELOW THE COWL MOLDING. 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. If it helps, you can remove the cowling at the base of the windshield to see where you will be drilling. DO NOT CUT OR DRILL INTO THE AREA BELOW THE BEND OF THE COWL. Using the mark you made from the previous step, drill through the firewall into the cowl area. Use care and remove the piece of firewall as the edges are HOT AND VERY SHARP!
Step 12
Install the supplied aluminum duct mount with the short 1” end facing outward. Once it is in place, 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. Secure with the four supplied self tapping screws.

Step 13
Install supplied flex boot on aluminum duct mount and secure with supplied clamp. Install a second clamp on flex boot but do not tighten it at this time.

Step 14
Install complete intake tube/filter assembly into the flex boot 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 flex boot.

Step 15
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 ¾” 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 16
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 17
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 cowling at the base of the windshield of any snow before starting your vehicle.