

# SPEED BY SPECTRE™

## Intake Installation Instructions P/N 9917

### Year/Make/Model/Engine

2006-2009 Cadillac STS-V 4.4L Supercharged V-8

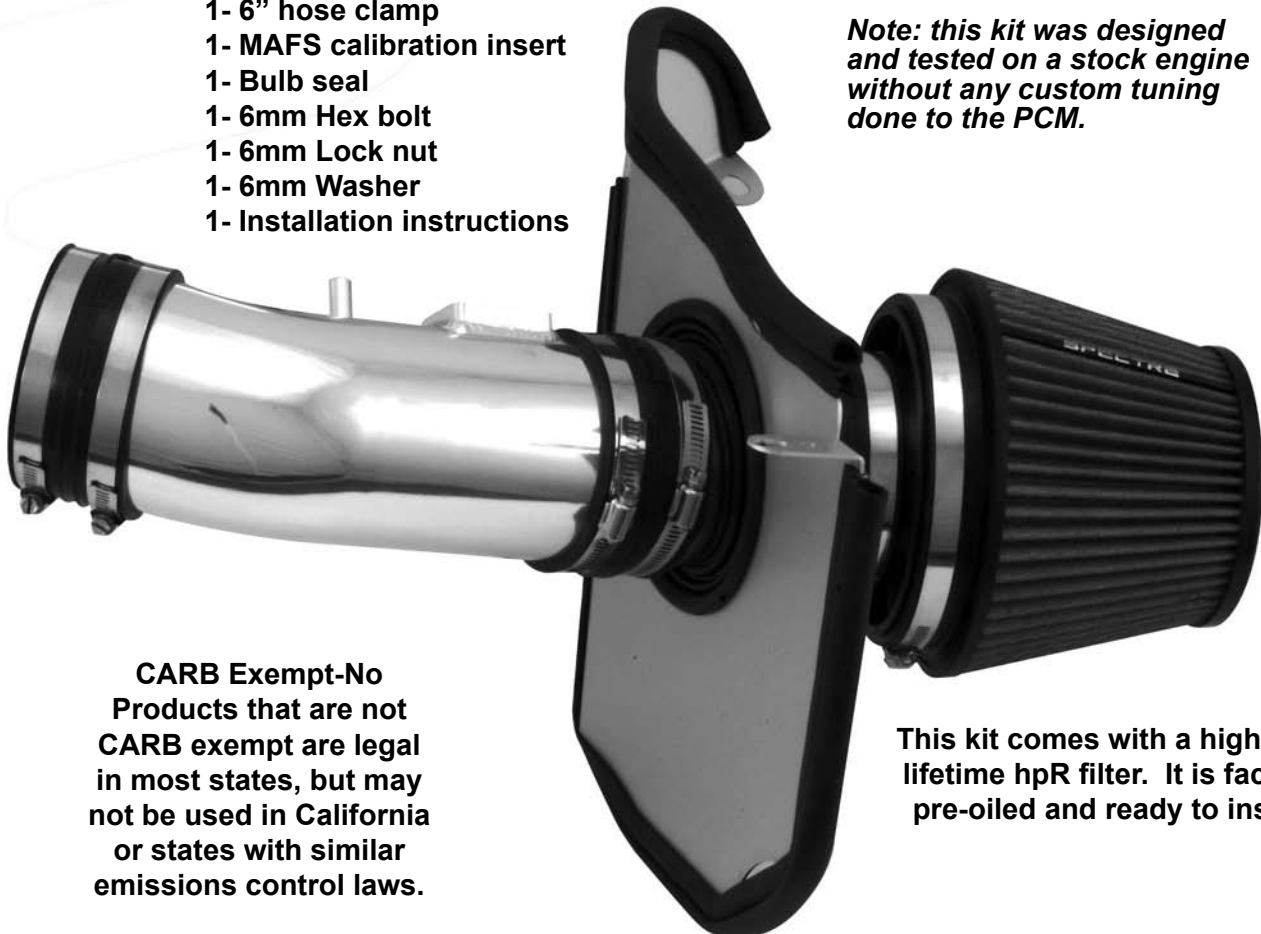
#### Parts List

- 1- Air filter-PN# 889886
- 1- Velocity stack adapter
- 1- Intake tube-with mass air flow sensor mount
- 1- Intake tube-short
- 3- 4" couplers
- 6- 4" hose clamps
- 1- Heat shield
- 1- Heat shield grommet
- 2- M4 machine screws
- 1- 6" hose clamp
- 1- MAFS calibration insert
- 1- Bulb seal
- 1- 6mm Hex bolt
- 1- 6mm Lock nut
- 1- 6mm Washer
- 1- Installation instructions

#### Tools Required:

- Phillips screwdriver
- Standard screwdriver
- 5/16" nut driver
- 10mm socket
- 6" extension
- Ratchet
- T-20 Torx driver or socket bit

*Note: this kit was designed and tested on a stock engine without any custom tuning done to the PCM.*



**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.**

**This kit comes with a high flow lifetime hpR filter. It is factory pre-oiled and ready to install.**



**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**  
Remove the six clips that hold the plastic side covers then remove the covers.



**Step 3**  
Remove the vent hose from the rubber intake tube. Loosen the two clamps on the intake tube.



**Step 4**  
Remove the rubber intake tube.

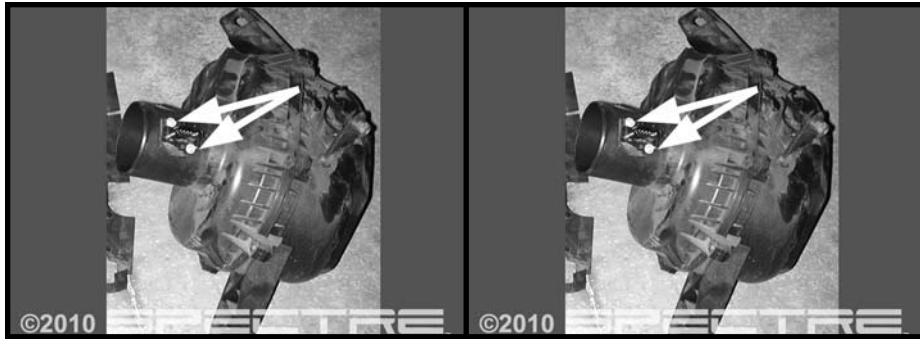


**Step 5**  
Disconnect the mass flow sensor wire connector from the sensor. Lift the vent hose and the coolant hose out of the clips on the air filter housing and position them out of the way.



**Step 6**  
Remove the two 10mm bolts in the air filter housing. One bolt will be used in a later step. Remove the two push pins in the air filter housing insulator. Remove the housing and the insulator by lifting and gently pulling the housing off the lower locating pin. Remove the entire airbox assembly from the engine compartment.





**Step 7**  
Use a T-20 torx driver to remove the two screws for the mass air flow sensor. Remove the sensor and set aside so it won't get damaged. This sensor will be installed in the new intake tube in a later step.

**Step 8**  
Install the bulb seal and the 4" grommet on heat shield as shown.



**Step 9**  
Place the heat shield in the car as shown. Install the 10mm bolt previously removed in step 6 in the rear hole. Install the supplied 6mm bolt, washer and lock nut in the front hole next the radiator support bracket as shown. Once the heat shield is positioned so the bulb seal is sealing against the body then tighten both of the bolts.

**Step 10**  
Install the mass air flow sensor into the intake tube and secure it using the two supplied m4 Phillips screws.



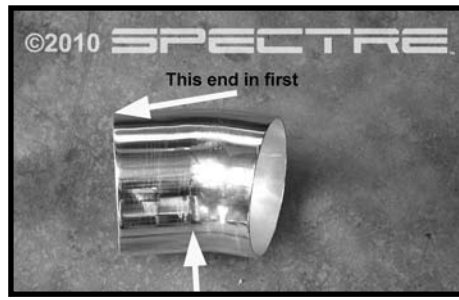
**Step 11**  
Align the slot of the supplied calibration sleeve with the mass air flow sensor then install the calibration sleeve into the intake tube. Install one of the 4" couplers on the intake tube over the calibration sleeve and secure it in place with one of the 4" clamps. Place another one of the 4" clamps on the other end of the coupler but leave it loose at this time.



**Step 12**  
Install one of the supplied 4" couplers and 2 of the supplied 4" clamps onto the factory "Y" intake tube. Tighten the clamp that is closest to the "Y" while leaving the other clamp loose at this time. Reposition the coolant hose as shown and install the factory clip (arrow) that is on the hose into the hole in the heat shield bracket.



**Step 13**  
Slide the new intake tube into the coupler that is on the factory "Y" intake tube. Position the intake tube as shown in the picture (rotate the tube so the end of the tube is at the opening of the grommet) then snug the clamp. Do not fully tighten the clamp at this time as you will need to move the tube slightly in a later step.



**Step 14**  
Slide the small intake tube into the heat shield grommet from inside the heat shield with the long side of the tube going in first (a small amount of silicone spray will make the tube slide easier) into the coupler. It may be necessary to rotate the long intake tube slightly. Position the small tube with the angle facing forward. Once the short intake tube is fully seated into the coupler tighten the clamps on both ends of the long tube. Connect the vent hose to the intake tube. Plug in the mass air flow sensor wire connector.



**Step 15**  
Install the supplied velocity stack adapter into the air filter and slide the supplied 6" hose clamp on the filter and tighten.



**Step 16**  
Install the last two of the supplied 4" clamps on the 4" coupler and then install the coupler on the velocity stack. Tighten the clamp closest to the filter.



**Step 17**  
Lift and move the coolant hose and install the air filter assembly onto the intake tube and position it so it does not touch the body and tighten the clamp on the coupler. Put the coolant hose back in the original position making sure there are not any kinks in the hose.



**Step 18**  
Make sure that all clamps and hardware are fully tightened. Reconnect the battery cable, start the vehicle and let it warm up. Shut off and inspect the installation once more for any loose clamps, wires, or hardware. Test drive & enjoy! Your installation is now complete. Periodically check all clamps and hardware.

Product Info:  
Performance Air Induction  
System P/N 9917

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