



How to Install the Fuel & Air Saver™ 2

- 1) **Locate blow-by tube**, usually coming out of the engines valve cover. Some are located in front or in the back of the engine usually a one inch or oval plastic down spout. Disconnect vent tube, leaving a section attached to the valve cover or block in order to Install manifold provided in this kit
(Note:) Two nipples coming off the manifold are for hose hook up and nipples need to be facing away from engine block. Be sure to use clamps, and or bushing provided in the kit (Do not tighten clamps at this time).
 - 2) Find suitable place to install both Fuel and Air Savers, usually on the fire wall, or on the drivers side windshield reservoir frame keeping in mind, not to block or cover any daily serviceable parts and **DO NOT** install next to the exhaust pipe. Install using self tapping screws, provided in kit. If room allows, mount the two Fuel and Air Savers about 4 to 6 inches apart.
 - 3) After installing the two units, remove the short section of **Air Intake** pipe, usually aluminum and approximately 6 to 8 inches long, **in front of the Turbo**, sometimes this section can be of a high heat plastic. **Drill two 9/16** holes about two inches apart. **Using a ½ inch pipe tap**, thread previously drilled holes. (**CAUTION**, this is a thin wall pipe and care needs to be taken when taping for threads.) Thread nipples supplied in to new tapped holes. **Be sure to use sealant on threads**. Re-install air inlet pipe making sure the nipples are facing away from the engine block.
 - 4) Using a section of hose from kit, connect the first hose on to the ½” nipple of the manifold fitted in to the blow-by tube. Measure and cut this hose to the length needed to reach the first Fuel/Air Saver on the **Crank-Case** port (**marked with red**) use clamp supplied. Repeat this step on the second unit. You now should have two hoses from the blow-by tube manifold, each clamped to the Crank Case port of each Fuel and Air Saver.” Make sure this hose does not kink and all bends are of a smooth curve. **Kinks will cause back pressure!!**
 - 5) From Fuel/Air Savers, connect hoses to the **Intake port** nipples and run hose to nipples installed in the intake pipe **before the turbo**. **Be sure to clamp all fittings**.
 - 6) All Parts on the Fuel/Air Saver are to be “Hand Tight” only. This unit is under suction, not pressure. After checking all clamps for tightness, start your engine. Check for leaks and or loose fittings.
 - 7) Locate oversize collection Reservoir (supplied) and install below engine level, on frame using straps supplied. **Notice** nipples on bottom of collection canisters previously installed. Run a short hose from each canister and insert the **T/Y** and hook up both hoses leaving the open end of the T/Y facing down. Now run a section of hose to the oversized collection reservoir and hook to the port on top. Place a short section of hose on the small shut off valve supplied and install it on to the drain of the reservoir. (**Be sure the valve is in the off position, as this is the drain valve**).
- This reservoir allows the removal of all collected oils from the blow-by to be stored away from the engine. This reservoir needs to be serviced at regular service cycles. Just open drain valve and close when finished. No other service should be needed at this time.
- 8) The Fuel and Air Saver has a unique and patented separator in each unit or two in a system and need to be cleaned at least once a year. They are removable and need only to be washed out with clean diesel fuel or solvent.
(Note: do not blow separators out with air. Just re-install and allow them to do as they were designed. Separate out the junk.)
 - 9) Hand-tighten only – but do not use brute force.
 - 10) Make sure all clamps are installed and tight. Start Your Engine. Check for leaks by putting you bare hand over each connection and feel for air.

Congratulations! You have just completed installing a Fuel/Air Saver System.

Any Questions call **530-402-7555** or for re-orders visit our web site @ www.WorldNCI.com