

Installation instructions for RamIT – 4.7 L WJ

Read and understand instructions in their entirety before beginning. By installing this product, the user assumes all responsibility for its use and /or misuse, and any resulting consequences for such.

- 1) Disconnect battery, so you don't unintentionally short something out during the install.
- 2) Install K&N FIPK generation 2 as per instructions supplied by K&N. If this is a new installation, you may skip the steps pertaining to installation of the heat shield.
- 3) On existing installations, remove heat shield and set aside, as you will not be reinstalling.
- 4) Remove K&N air filter element.
- 5) In opening next to radiator, on the vehicles left hand side, insert 4 inch air hose. This is a tight fit, so it will take a little work to get it in. Depending on how your jeep was assembled, it can be easy (most) to downright frustrating (1in10). Using the wire re-enforced hose as a large screw and turning it in helps. The goal is to see the opening of the hose through the leftmost grill slot (figure 1, 1A). A large screwdriver inserted between the grill and the radiator support can help guide the hose. For optimal performance, make sure hose is not collapsed at inlet side.
- 6) Slide collar over the FIPK tube, small side closest to the Throttle Body. It looks totally oversized, but that is for ease of assembly. It will tighten.
- 7) Place K&N filter element into canister, and move unit as a single piece into engine compartment, reinstalling K&N element on the FIPK tube.
- 8) Tighten filter clamp.
- 9) Slide collar over the top of the canister, aligning it with the raised area on the canister. Snug the clamp, but do not tighten.
- 10) Tighten the small end of the collar; making sure the canister is straight with the filter element.
- 11) Place inlet hose on the inlet fitting and rotate the canister into place. The canister inlet should be pointing straight to the radiator (see figure 2, 3). Tighten large collar end, making sure the canister is straight with the filter.
- 12) If the canister is forced away from the grill by the inlet tube, then you will need to either trim the hose until the canister is allowed to sit free and straight, or insert the hose into the grill opening farther. You do want some pressure on the canister, just not enough to move it out of position.
- 13) Use common sense and realize you will need to check your air filter more often, (rotating it often to get a longer service life), and anything that gets into the inlet tube will get trapped by the filter or ingested by the engine. A deep water crossing with the system intact could result in damage to the engine. The system is designed to not require the use of a hose clamp on the inlet to canister connection. This will allow the easy disconnection of the ram air system in environments where having a ram air setup is not desirable, such as sand dunes, water crossings, and heavy snow / ice conditions. In those conditions, disconnect hose, and let it sit below canister (See figure 4). This will force the canister to draw warm air from the engine compartment, and any sand, snow, or water that would normally enter will not get through to the filter. In areas of heavy moisture, you may want to consider drilling a 1/8 inch drain hole on the bottom of the canister, on the closed end (the side that is installed closest to wiper washer fluid on the bottom). Some kits will have this hole predrilled for you.
- 14) Reconnect the battery, enjoy your new performance.



Figure 1



Figure 1A



Figure 2



Figure 3



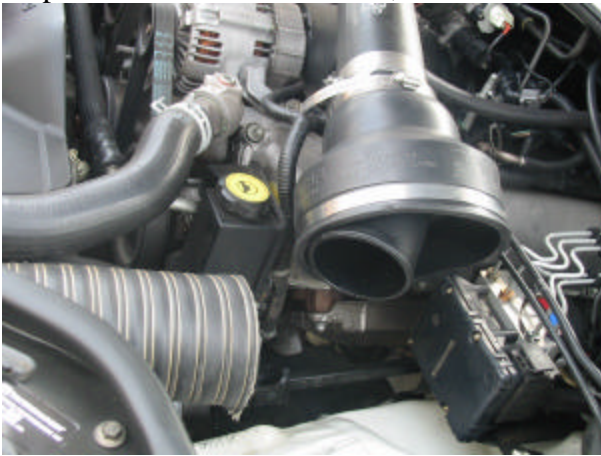
Figure 4



Step 1 - Contents



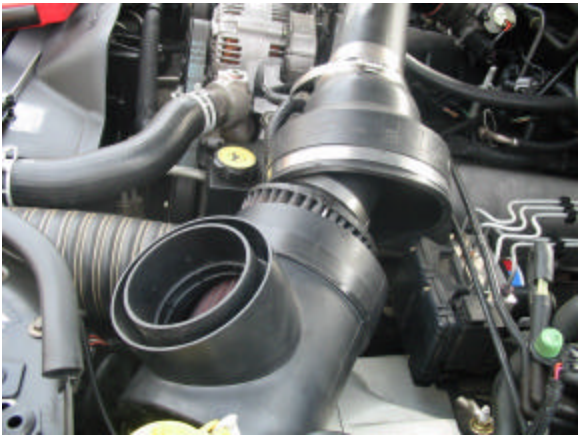
Step two – remove FIPK filter, insert hose



Step three – put on collar



Step 4 – Insert filter into canister



Step 5 – Attach filter on tube and tighten filter clamp



Step 6 – Adjust canister so filter is centered, and hose inlet is in position, tighten clamps



Step 7 – Slide hose onto inlet. Make sure hose is not pushing canister, if it is, push hose further into grill opening and / or trim small amounts of hose until it fits.