

# ALTA

## JCW Aluminum Turbo inlet hose

Thank you for purchasing this ALTA product for your car! Installation of this product should only be performed by persons experienced with installation of aftermarket performance parts and proper operation of high performance vehicles. If vehicle needs to be raised off the ground for installation, the installer must use proper jacks, jack-stands and/or a professional vehicle hoist for safety of the installer and to protect property. If the vehicle is lifted improperly, serious injury or death may occur! Please read through all instructions before performing any portion of installation.

### GENERAL MODIFICATION NOTE

Modifications to any vehicle can change the handling and performance. As with any vehicle extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive a vehicle safely may result in serious injury or death. Do not drive a vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state or country. Consult the owner's manual, service manual, instructions accompanying these products, and local laws before purchasing and installing these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

### **SPECIAL NOTES:**

- Check Crank case vent hose on valve cover for being loose, if loose use supplied zip ties to secure under valve cover. This step can be tricky to do.

### **Parts Included with ALTA JCW Turbo Inlet Tube:**

- (1) JCW Turbo Inlet Tube
- (1) 1.125" ID coupler
- (1) 2.75" ID hump coupler
- (2) O-Rings
- (2) Set screws
- (2) Size 48 hose clamp
- (2) Size 20 Hose clamp
- (2) Zip ties
- (1) Allen Wrench

### **JCW Turbo Inlet Instructions:**

- 1) Locate OEM Turbo inlet hose, using 7mm nut driver, loosen hose clamp on turbo connection and MAF sensor connection.
- 2) Locate brake booster vacuum hose (plastic hose over intake), and remove from engine side. (2) small buttons release hose and fitting.
- 3) Locate and remove crank case breather hose on OEM inlet hose. When removed, check crank case hose for tight fit to valve cover. If fitment is loose, secure with supplied Zip tie. This is important to keep tight as this can cause a vacuum leak which will throw Check Engine Lights.
- 4) Remove OEM inlet hose from engine bay.
- 5) Apply a small amount of grease to turbo charger inlet, and inside of ALTA Turbo inlet hose. This will aid in sliding ALTA tube onto turbo inlet. **NOTE: Clearance between turbo inlet and ALTA Turbo inlet is very tight. Any dents or dings can effect this from sliding on. Using light sand paper or "Scotch Brite" pad works well to clean up.**
- 6) Slide ALTA Inlet Tube over turbocharger inlet until first o-ring starts to seal. Ensure hose is going on square to turbo inlet and continue to push on while twisting slightly. **NOTE: Clearance between Inlet Tube and coolant reservoir can be tight. Make sure this goes on perfectly straight before sliding on. Remove 10mm screw and reservoir from body and push out of way to add extra room if necessary. Also if hose doesn't go on smoothly, check set screws for protruding into ID of inlet.**



- 7) Install 1.125" coupler over small fitting on Inlet tube and secure with supplied clamp.
- 8) Install crank case vent hose and fitting into coupler and secure with supplied hose clamp.
- 9) Install 2.75" coupler over large end of inlet tube then over MAF sensor. Secure connection using supplied clamps.
- 10) Once both crank case vent hose and MAF housing are secured to inlet tube, tighten (2) set screws to secure inlet hose to turbocharger inlet and lock rotation of Inlet Tube into place. Tighten to roughly 40 in-lbs.
- 11) Start car, make sure car runs ok, and check for leaks. If all check outs, take car for test drive.