

Generic Installation Instructions

Purpose: These installation instructions describe a generic installation of a Catalytic Booster™ (CB) or a Combustion Purifier™ (CP) on a Diesel engine. Please ask Purify Solutions™ if instructions for your specific installation circumstance are available. These instructions are only to be used as a guideline in such cases that specific instructions are not available. In any case, the installer's engineering and fabrication skills, along with common sense, will be required to ensure a proper installation.



Parts:

- **Catalytic Booster or Combustion Purifier:** Shown on top, the CB or CP is the emissions control device. To install on a Diesel engine, there will need the same number of CB or CP units as the Diesel engine has turbochargers.
- **Flex Tubing:** Shown on left, the flex tubing connects the CB or CP to the interface flanges. There are two flex tubes per CB or CP in an installation package.
- **Clamp Flange Set:** Shown on right, flanges are used to connect the flex tubing to both the CB or CP and the interface block. There are four flange sets per CB or CP in an installation package. Each flange set includes two flanges and one flange clamp.
- **Interface Block:** Not shown, the interface block mounts to the exhaust manifold flange and to the turbocharger exhaust gas inlet flange. It supports the turbocharger and interfaces the turbocharger flange to the flex tubing. There are two interface blocks per CB or CP in an installation package.

Process

1. Unbolt turbocharger(s) from the Diesel engine's exhaust manifold. Bolt an interface flange to both the Diesel engine's exhaust manifold and the turbocharger's exhaust intake flange. Fabricate a support bracket connecting the two interface flanges in order to support turbocharger in its new location. The turbocharger's oil, air, cooling water connections, if present, may need to be adjusted.
2. Locate and mount the CB or CP unit(s) as close to the interface flanges as possible.
3. Connect the interface flanges to the CB or CP unit(s) using the flexible tubing. Contact Purify Solutions if flex tubing of a different length are needed. The flex tubing can be directly welded to the CB or CP units(s) and to the interface blocks. It is recommended that, instead of welding, the connections are made by welding a flange from a flange set to each side and the attachment made with the flange clamp instead.