

Installation & Removal of Framed Catalysts and Gaskets

Square or Rectangular Catalysts are provided with framed edges to allow easy handling and provide a stiff structure that will withstand normal engine operation.

The catalyst honeycomb itself is bonded. While it may deform under extreme backfire conditions, it should not disintegrate.

These simple instructions are offered to facilitate the easy installation and removal of these units. An illustration is provided to highlight the key points.

Note that catalysts are valuable and should be handled with care. They should be stored in a clean, dry place out of the weather. No oils or coolants should be allowed to contaminate them.

Instructions for Installation of Framed Catalysts and Gaskets

- 1. Observe all safety practices and insure surfaces are cool to the touch before proceeding. Do not start or operate any engine with any access covers removed.**
- 2. The framed catalysts are provided with continuous sewn gaskets. The gaskets have one/two bulbs or tadpoles. See *illustration*.**
- 3. Fit the gasket over the framed catalyst so that the bulbs overhang the sides of the catalyst frame. It is more important that the bulb(s) overhang the frame than for the flat side of the gasket to completely cover the flat side of the frame. See *Illustration*.**
- 4. Open the catalyst access cover(s) in the combination silencer or catalyst housing. Inspect for and remove any debris such as loose insulation.**
- 5. Remove all nuts/bolts/washers from the weld studs inside the combination silencer.**
- 6. Make sure the mounting surfaces are clean of all debris that could affect a good gas tight seal.**
- 7. Carefully press the catalyst and gasket into the cavity(s) sized to hold them. Insure the uncompressed bulbs fit into the corners of the "L" shaped portion at the bottom of of each cavity. Do not distort the catalyst or its frame.**
- 8. Reinstall washers and nuts. Tighten evenly to compress the gasket bulb. Insure all loose materials, tools have been removed from inside the catalyst compartment.**
- 9. Reinstall the unit access doors, insuring all door gasket material is in place.**

Instructions for Removal of Framed Catalysts and Gaskets

1. **Observe all safety practices and insure surfaces are cool to the touch before proceeding. Do not start or operate any engine with any access covers removed.**
2. **Open the catalyst access cover(s) in the combination silencer or catalyst housing.**
3. **Remove all nuts/bolts/washers from the weld studs inside the combination silencer that hold the catalyst(s) in place.**
4. **Carefully insert 2 screwdrivers or small pry-bars between the structural cavity walls and the catalyst gasket. Gently pry up the gasket and catalyst. Do not distort the catalyst or its frame. Do not make any holes in the catalyst.**
5. **Remove the catalyst(s) and service as required.**
6. **Inspect the gaskets for wear and tear. The continuous-sewn gaskets can be reused if in good condition. New gaskets are always recommended.**
7. **Remove any debris found inside the catalyst chamber and on mounting surfaces.**
8. **Contact VANEC, Inc. with any questions or to obtain replacement materials.**
9. **RECLAMATION: Even spent catalysts contain precious metals that can be reclaimed for some amount. It is better to accumulate material to achieve lot sizes of 400 lbs or more and process in bulk. Remove all extraneous gaskets and heavy steel frames to reduce shipping and processing costs. Contact VANEC, Inc. for shipping.**

Typical Framed Catalyst Mounting Detail

