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Five & Six Speed Conversion Specialists!

MD-VET6367-FL C2 & C3 Corvette Transmission Crossmember Flange Kit



Crossmember center-section not included.

Read These Instructions Completely Before Beginning

These instructions are for installing the flange kit onto the transmission support/exhaust crossmember. This kit fits all 63-75 C2 & C3 Corvettes with factory frame, and 76-79 C3 Corvettes with factory frame and factory manual transmission.

1.0 Tools and Notes

- 1.1 Welder, welding blanket, Sawzall (or cut-off wheel), grinder, 1/2" wrenches and/or socket/ratchet, primer & paint as required.
- 1.2 This flange kit must be welded in. Professional services for this effort are recommend assuring quality welds and weld penetration.
- 1.3 Safety Equipment – Always wear approved ANSI approved safety goggles/glasses when working with metal and fluids. Wear proper gloves when working with hot surfaces and corrosive fluids.

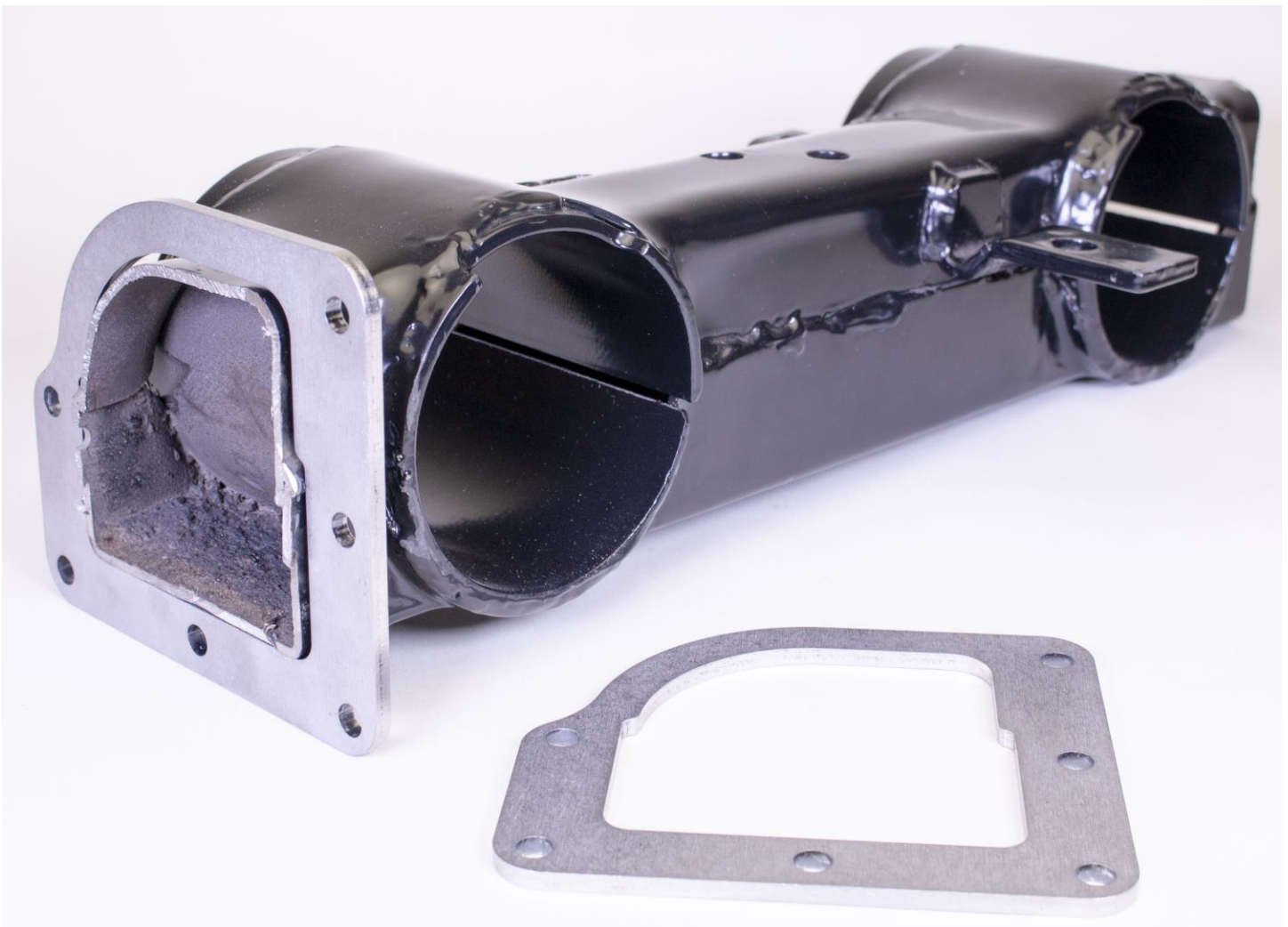
2.0 Disassembly - If your vehicle is already disassembled, skip to the Fitment Instructions.

2.1 Remove exhaust system from the vehicle that passes thru the transmission support/exhaust crossmember.

3.0 Fitment of crossmember & Flanges

3.1 To remove the OE crossmember, cut the crossmember in-place at approximately 1-1/2" out board of the Exhaust holes in the crossmember as shown in top image of this document. **It is important to cut straight. We recommend placing some masking tape, marking, then following your cutline. A cut that is not straight will result in poor fit and potential rework of the crossmember prior installing this kit.**

3.2 When reinstalling crossmember with flanges... put flanges in place around outside and inside sections of the crossmember. Snugly bolt flanges together. Position flanges centered over gap on cut section of crossmember. Space gap evenly on both sides of vehicle.





3.3 This step must not be overlooked. Remove paint, debris, rust, oil, grease, etc from surfaces to be welded. Use safe welding practices by protecting you and the surrounding area being worked on. Proper gloves, face/eye protection are mandatory. For body-on welding protect surrounding fiberglass structure from spatter and sparks by using a welding blanket. **This step must not be overlooked.**

3.4 Tack-weld flanges to the outboard & inboard crossmember pieces to hold them in place.

3.5 Remove bolts and check for fit.

- 3.6 Once proven, re-install center section with tacked-on flanges and complete as much of the welding in-place as possible to both the center-section and the body-side of the frame. Any welding that is done on the face of the flanges that butt-up against each other must be sanded smooth.
- 3.7 Finish the weld of the flanges so they form a good strong bond returning the rigidity of the OE crossmember. Improper penetration of the welds will result in failure and will jeopardize the integrity of the vehicle.
- 3.8 Prime and paint as required (recommended).



- 3.9 Complete any transmission activities and re-install center section. Torque bolts 18-22 ft/lbs.
- 3.10 Re-install exhaust as applicable.

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