INSTALLATION INSTRUCTIONS

P/N: C3141

BOLT-ON SUBFRAME CONNECTOR

The Competition Engineering Bolt-On Subframe Connectors are designed to stiffen the chassis by tying the front and rear subframes together. Installation requires simple hand tools and an electric drill to install. For high-horsepower cars we highly recommend welding the mounting brackets to the subframes. This will dramatically increase the rigidity of the chassis without having to channel the floor pan for installation. **THIS KIT WILL NOT WORK ON CONVERTIBLE MODELS**

PARTS LIST

- 1) Driver's Side Connector
- 10) 3/8"-16 x 1" Bolt
- 4) 5/16"-18 x 2.75" Bolt
- 14) 3/8"-16 Locknut
- 28) 3/8" Washer
- 1) Driver's Outer Seat Brace
- 1) Passenger Outer Seat Brace
- 2) 7/16" Square U-bolt
- 4) 10mm Nut
- 1) Passenger's Side Connector
- 8) 3/8"-16 x 3" Bolt
- 4) 5/16"-18 Locknut
- 4) 7/16"-14 Locknut
- 8) 5/16" Washer
- 1) Driver's Inner Seat Brace
- 1) Passenger Inner Seat Brace
- 4) 7/16" Washer
- 2) Sandwhich Plates

INSTALLATION

We recommend installing one frame connector at a time

1. Jack up vehicle and support with jack stands. Make sure you place the jack stands in a location that will not interfere with the connector installation.
2. Install one of the 7/16" Square U-bolts through the holes in the rear factory subframe located at the front of the lower suspension arm for the rear axle.
3. Place the frame connector against the rear subframe pocket and support it with a floor jack so that the previously installed u-bolt drops through the holes in the frame connector.
4. Install the 7/16" flat washers and the 7/16" Locknuts onto the U-bolts. Tighten the u-bolt nuts evenly until the weight of the frame connector is supported by the U-bolt assembly.
5. With the jack holding the front of the frame connector in position, drill two 3/8" holes through the frame rail using the holes in the frame connector bracket as a guide. Fig 1 & 2

For Technical Assistance, call Competition Engineering's Tech Line at (203) 458-0542, 8:30am-5:00pm Eastern Time

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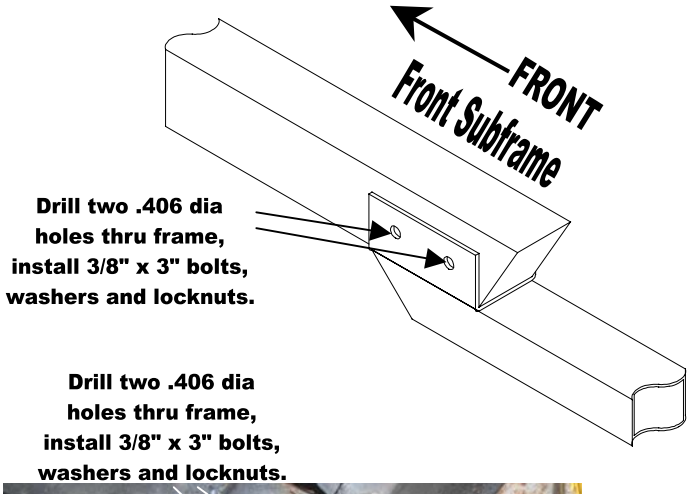
6. Install two of the 3/8”-16 x 3” bolts and locknuts using a washer on both sides, tighten to 30 ft/lbs. Tighten the u-bolt locknuts to 50 ft/lbs. Fig 2
7. You may now drill the (5) 3/8” holes through the frame using the holes in the rear frame connector bracket as a guide. Fig 3
8. Install the supplied 3/8” bolts and locknuts through the holes and tighten to 30 ft/lbs.
9. Repeat this procedure for the opposite side.

OPTIONAL SUPPORT BRACKETS

This kit includes support brackets for the seat mounting bolts to further strengthen the chassis. The brackets are different for the passenger and driver’s sides. The driver’s side brackets can be identified by the additional holes that are drilled next to the seat bolt slot. The shortest of the two driver’s side brackets mount to the outside of the vehicle. Installation is as follows:

1. Slide the outer bracket onto the seat-mounting bolt that protrudes through the floor. Hold the bracket in place with one of the supplied 10mm nuts. See Fig 4
2. Repeat this procedure for the inner bracket.
3. Clamp the brackets to the frame connector and drill two 11/32” holes through the rail using the brackets as a guide.
4. Install the supplied 5/16” bolts and locknuts through the brackets and the frame connector. Tighten evenly until snug.
5. Tighten the 10mm nuts to 35 ft/lbs. Tighten the 5/16” bolts to 18 ft/lbs.
6. Repeat this process for the opposite side.



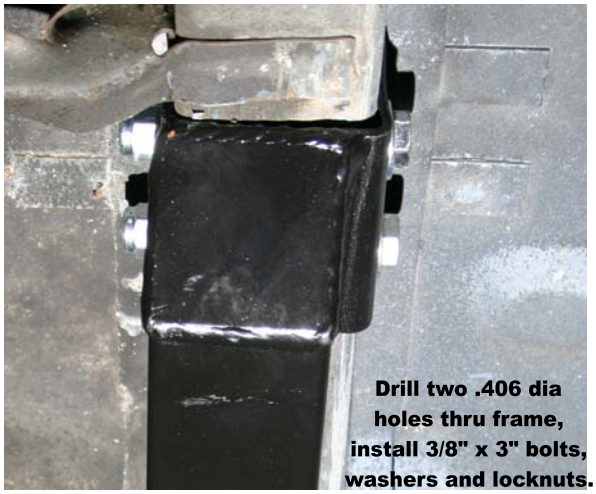


Fig 2

Fig 3

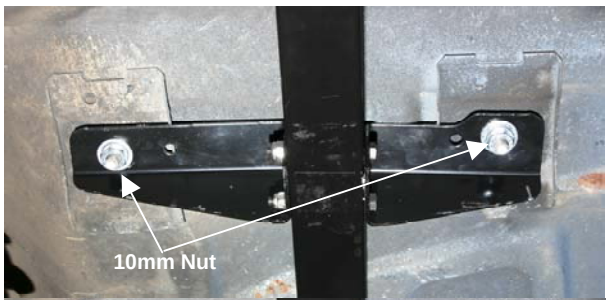


Fig 4