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**EDELBROCK SUSPENSION**  
**Sub-Frame Connectors**  
**For 1994-2002 Mustang GT & 1999-2002 Mustang Cobra**  
**Catalog #5291**  
**INSTALLATION INSTRUCTION**

Please study these instructions carefully before installing your new sub-frame connectors. If you have any questions or problems, contact our **Technical Hotline at: 1-800-416-8628** from 7 am - 5 pm, Monday through Friday, Pacific Standard Time or e-mail us at: [edelbrock@edelbrock.com](mailto:edelbrock@edelbrock.com).

**Application:** Designed for 1994-2002 Mustang GT and 1999-2002 Mustang Cobras. Edelbrock Subframe Connectors have been designed to add strength to the vehicle by connecting the front subframe from the front suspension cradle mounting points to the rear suspension trailing arm mounts. The Edelbrock subframe connector has large welding area to resist flex, heavy wall 1 5/8 diameter tubing for stability, and is contoured to the floor pan of the vehicle so as not to reduce ground clearance.

**Tools Required:**

1. Common hand tools
2. Drive-on lift (preferred) or floor jack & stands
3. Soft-backed angle grinder / sander
4. C-clamps or Vice grips
5. MIG welder

**Notes:**

1. Weld-on subframe connectors should be installed by a professional welder with a proper wire feed or MIG welder. The installer should have an understanding of welding dissimilar metals. The subframe is formed from thin gauge sheet metal. The bracket of the Edelbrock subframe connectors are made from 1/8 thick hot rolled steel that has been laser cut and formed to the required shape allowing for minimum of gap.
2. Subframe connectors should not be installed on a vehicle with subframe damage due to accident or vehicles that have weak, unequal rate, or improper springs.
3. Due to high production tolerances and wear from age, some vehicles may require fitting of the subframe connectors. This may require reshaping of the vehicles floor pan or subframe, or minor grinding of the subframe connectors.

**KIT CONTENTS**

<u>Qty.</u>	<u>Part #</u>	<u>Description</u>
2	68-5710	5/16 - 18 x 1" hex head cap screw
2	23-2057	Nut tab
2	23-2104	Cross member reinforcement plate
1	23-2106	Left seat reinforcement bracket
1	23-2107	Right seat reinforcement bracket
4	68-8702	10mm - 1.50 x 40mm bolt
4	60-0242	10mm - 1.50 nyloc nut
8	82-5592	7/16 Flat washer
2	82-4100	5/16 Flat washer
1	25-4056	Left subframe connector
1	25-4057	Right subframe connector

## INSTALLATION INSTRUCTIONS

1. Place vehicle on a drive-on style of lift (preferred) or lift vehicle so as to keep the suspension loaded with the vehicle weight. Spring rates must be equal from the left side to the right side, and the weight of the vehicle must be supported by the springs during installation as if the vehicles were on its wheels. If vehicle is support by its wheels, tire pressures must be equal, check sidewall of tire for recommended pressure. Vehicle must not be in a twist or bind during installation; this condition would cause the chassis to develop a preload.
2. Disconnect the battery. Pull the carpet or all flammable materials away from the inside floor pan in the foot wells on both sides of the vehicles. Remove the 2 rear front seat retaining bolts.
3. Unbolt any wiring, brake lines, and fuel lines that are attached to the front or rear subframe near to where the subframe connectors are to be welded.  
**Note:** Duct tape can be used to protect exposed wiring or lines during welding.
4. Using the subframe connectors as a guide, mark where there needs to be welding on the floor pan and using the angle grinder / sander, clean the area to be welded. The cleaner the area where the weld is to be, the better and stronger the weld will be (see Figure 1).

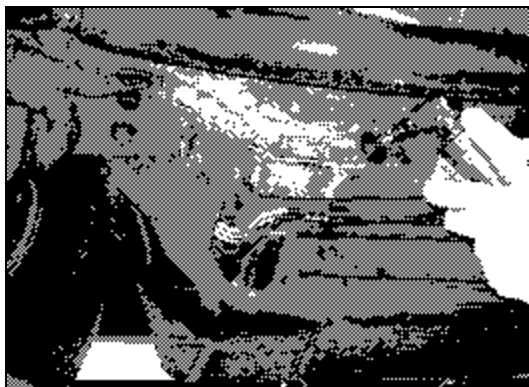


Fig. 1

5. Weld all the floor pan pieces that are spot weld at the factory and will be covered by the subframe connectors after installation. This will help the subframe connectors and keep the factory spot welds from breaking where they would be inaccessible after installation (see Figure 2).

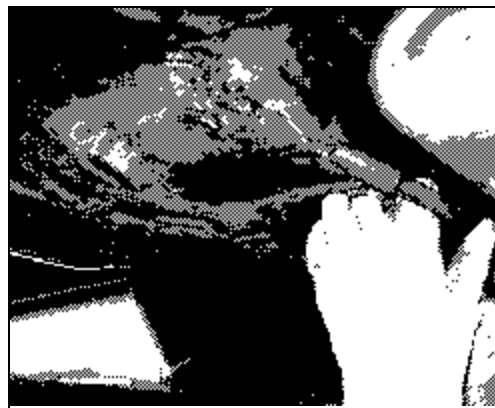


Fig. 2

6. Using the supplied nut tab, bolt, and washer install the Edelbrock Subframe Connectors on the vehicle. Slip the nut tab through the hole by the pinch weld near the rear trailing arm location; align it so the hole in the subframe connector can be bolted up. Before completely tightening the bolt, it will be necessary to install the seat reinforcement brackets. The seat reinforcement bracket installs with the connector slipping through the notch in the bracket and the longest tab of the bracket to the front of the vehicle. Bolt the seat reinforcement brackets using the supplied 10mm bolts and washers, going up from the bottom through the brackets into the factory nut plates welded to the floor pan. (see Figures 3 & 4). In the front subframe area, make sure the connector is seated up against the floor pan. The gaps between the sheet metal and the subframe connector should be minimized for good weld quality. Use C-clamps or locking pliers to hold the front of the connector in place.

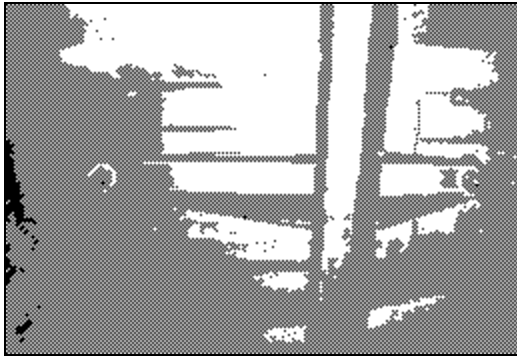


Fig. 3

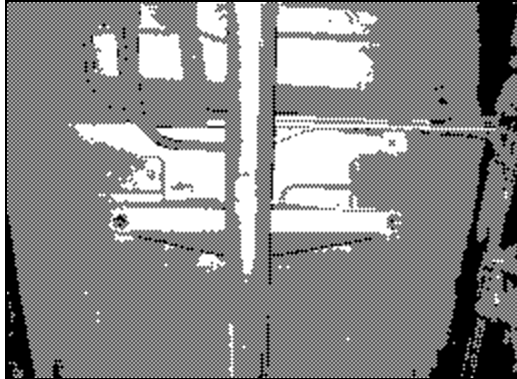


Fig. 4

7. Begin welding by tack welding both the front then the rear of the subframe connector to the floor pan. Once it is securely tack welded in, then start to do the final welding. Weld the seat bracket to the subframe connectors securely. It may be necessary to lift the connector bar to meet and close any large gaps between the connector and the seat reinforcement bracket.
8. Place the transmission cross member reinforcement braces inside of the transmission cross member mounting brackets, (see Figure 5) weld in place.



Fig. 5

9. Paint the Edelbrock Subframe Connectors at this time to prevent corrosion. Re-install any wiring, brake lines, and or fuel lines and mount them securely. Now is a good time to inspect the condition of the suspension components, check for worn, loose, or broken components and replace accordingly. The Edelbrock Subframe Connectors will do the most for a vehicle with good suspension parts.
10. Re-install the interior pieces in the front foot wells; install front seat mount hardware with the supplied nyloc nuts and washers, onto the ends of the bolts that are securing the seat reinforcement brackets. Connect the battery. Drive vehicle 20-30 miles and re-torque all the mounting bolts.

**Note:** Please check our catalog to look into other Edelbrock Suspension products to further enhance the handling and performance of your Mustang, such as coil springs, strut tower brace, lower trailing arms, and shocks. **To order a catalog, call 1-800-FUN-TEAM.**

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