

### Torque Arm Relocation Kit

Item #'s 2207, 2208, 2209, 2210, 2212, 2213, 2220, 2224, 2226



Box Contents for: **2207, 2208, 2209, 2210, 2212, 2213, 2220, 2224, 2226**

- (1) Installation Instruction Sheet
- (1) Transmission Crossmember w/ Torque Arm Mount
- (4) Allen head bolts
- (4) Washers
- (1) Clamshell
- (1) Aluminum Spacer

#### Applications:

- 2207:** 1998 – 2002 GM F-Body, Manual
- 2208:** 1998 – 2002 GM F-Body, Automatic
- 2209:** 1993 – 1997 GM F-Body, Manual
- 2210:** 1993 – 1997 GM F-Body, Automatic
- 2212:** 1998 – 2002 GM F-body, TH350
- 2213:** 1998 – 2002 GM F-Body, TH400
- 2220:** 1982 - 1992 GM F-Body, TH350 & T5
- 2224:** 1993 – 1997 GM F-Body, TH400
- 2226:** 1993 – 1997 GM F-Body, TH350

**NOTE:** This product **MUST** be used with a solid one-piece polyurethane bushing. This product will **NOT** work with the factory bushing that utilizes a two-piece design. If you are using a stock torque arm, an aftermarket polyurethane bushing **MUST** be purchased. This item can be purchased through UMI Performance. UMI Performance Item #3004.

**TORQUE ARM MOUNTING POSITION:** The UMI crossmember with the torque arm relocation flange is designed with various torque arm mounting locations for fine tuning the suspension to obtain most favorable conditions for your setup. Adjusting the torque arm up or down relocates the instant center of the vehicle; due to almost limitless blend of suspension combinations, ride heights, and vehicle weights there is no universal ideal location. UMI recommends starting at the factory height and raising or lowering the mounting position until ideal results are obtained. The factory torque arm location is the second mounting hole from the bottom.

**NOTE:** If installation is performed without a vehicle lift, (2) floor jacks will be required to ease installation. If installation is performed with a vehicle lift, (1) floor jack will be necessary.

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1. Before installation, verify box contents are correct and read through instructions completely.
2. On a solid, level surface, jack up the front vehicle sub-frame to a good working height, making sure both wheels are off of the ground, and secure with (2) jack stands under the frame, one on each side. Move to the rear of the vehicle, lift to match the front working height, and place (2) more jack stands on the inner frame rails on each side. Do NOT place jack stands under the rear axle. Leave the jack under the rear end.
3. Place the second floor jack under the transmission and apply slight upward pressure. Remove the 18mm mounting nut that attaches the transmission to the crossmember.
4. Remove (4) 15mm bolts attaching the transmission cross member to the vehicle frame. Remove the crossmember.
  - a.) Depending on the vehicle's exhaust setup, the Y-pipe may need to be removed for installation.
5. Locate the torque arm mount at the transmission and remove the bolts from the clamshell. If the torque arm still consists of a factory bushing, separate the bushing into (2) halves, remove, and discard. The factory bushing can NOT be used with the new relocation kit.
6. The entire factory torque arm mount must now be removed from the transmission and discarded.
  - a.) Manual transmissions will require lowering the transmission to remove torque arm mount assembly.

**PLEASE READ CAREFULLY:** With UMI's relocation design, we have found the easiest way to install the new crossmember is to attach it to the torque arm prior to installing it to the vehicle. Please follow each step below to ease installation.

**NOTE:** The factory torque arm mounting location is the second hole from the bottom.

7. Jack the transmission up and place a jack stand under it for support. If (2) jacks are available, disregard this step.
8. Locate a floor jack under the rear end and jack the rear end up until the front of the torque arm is low enough for the relocation bracket to be easily installed to the torque arm.
9. Place the torque arm bushing onto the torque arm. The supplied aluminum spacer is placed between the bushing and the new torque arm mount. This prevents the bushing from collapsing.
10. Attach the new UMI relocation crossmember to the torque arm using the new clamshell bracket and (4) bolts supplied with the kit. Tighten all (4) Allen head bolts to 32 ft lb. (See Images #1 & #2)
11. With the relocation kit installed onto the torque arm, slowly lower the rear end until the crossmember lines up with the (4) factory mounting holes in the vehicle frame and the transmission bolt. An assistant may be needed in order to help guide the crossmember into place. Jacking the transmission up and down will also help line up the mounting holes.
12. Once the crossmember is in position, tighten all (4) crossmember bolts to 48 ft lbs. Tighten the transmission mounting nut at this time. Lower the vehicle to the ground.

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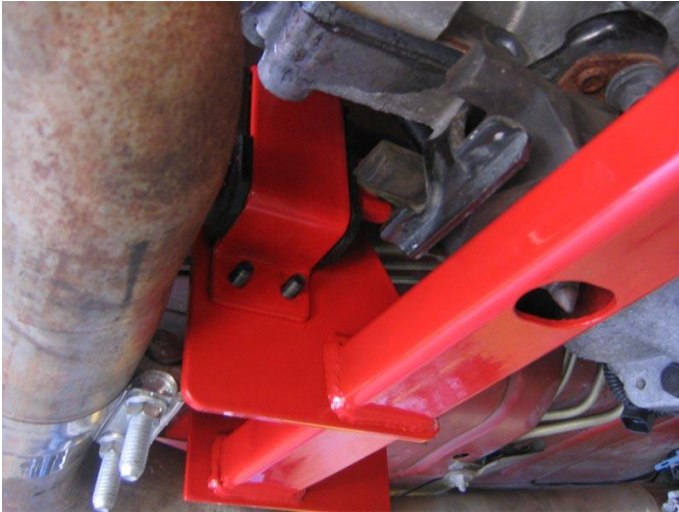


Image #1 – Passenger Side View

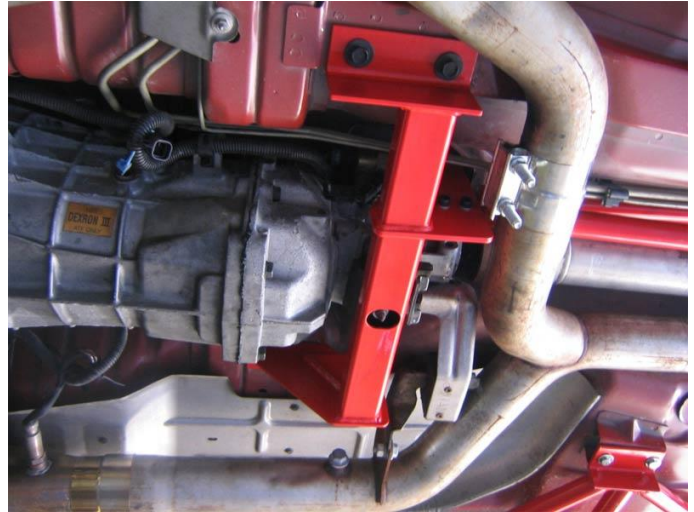


Image #2 – Driver Side View

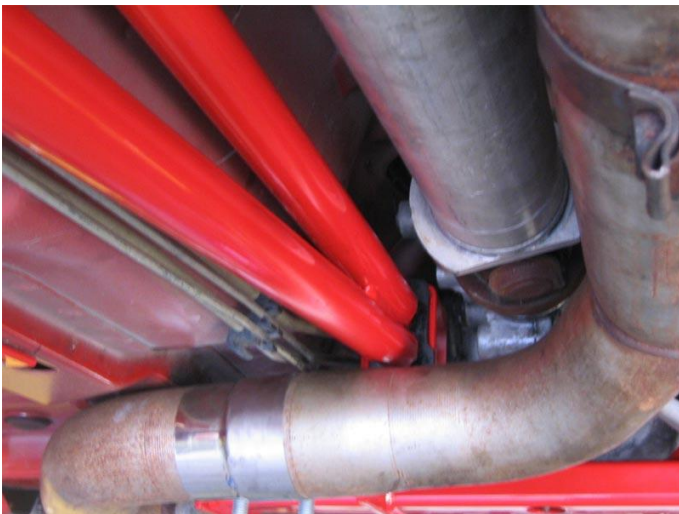


Image #3 – Torque arm at transmission rear

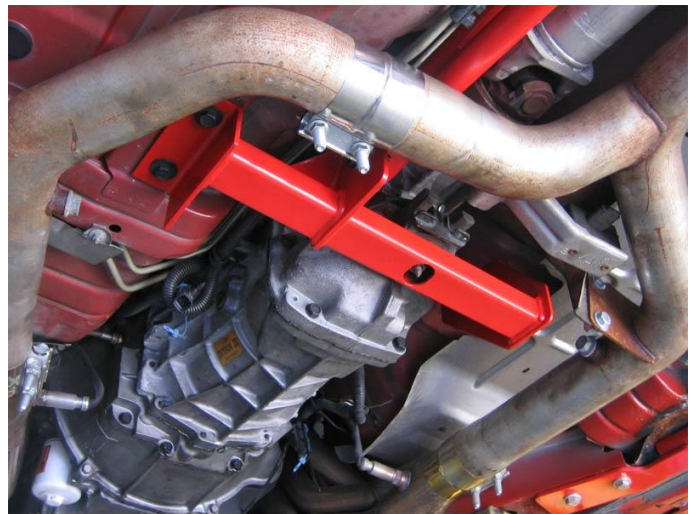


Image #4 – Installation Complete

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