

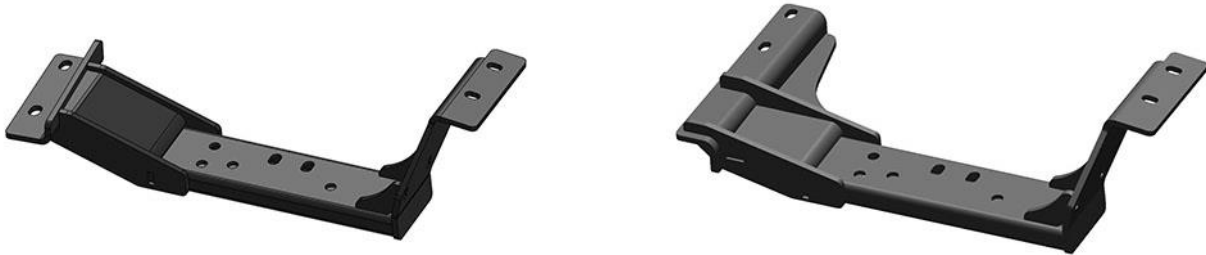


1993-2002 GM F-Body T56/T56 Magnum/4L60-4L70*/4L80-4L85*/TH400*/2004R*

Transmission Crossmembers
71222001HKR & 71222002HKR

Installation Instructions

* Installation requires the use of a separately available Hooker transmission adapter kit. 4L80-4L85 installations will require notching/modifications to the body bracing on the driver's side of the transmission tunnel.



Thank you for choosing to use a Hooker™ transmission crossmember as part of your performance project. These crossmembers were designed for use as part of a 4th-gen F-body LS engine swap project, or as part of a non-stock transmission swap into a 1998-2002 LS equipped 4th-gen F-body vehicle. Please read these instructions in their entirety before attempting installation.

PRE-INSTALLATION CONSIDERATIONS:

These crossmembers have been CAD designed to provide an optimized balance of weight, stiffness and strength and the means by which to anchor the stock rear suspension torque arm in installations where that capability is desired (requires the use of the optional **71223004HKR** adjustable torque arm mounting bracket kit). Direct installation capability for 4th-gen F-body and aftermarket Tremec T56 Magnum transmissions is provided by these crossmembers; installation of a 4L60-4L70, 4L80/4L85, TH400 or 2004R automatic transmission can also be accomplished using this crossmember and the Hooker **12650HKR**, **71223002HKR** or **71223003HKR** adapter kits referenced later in this document.

Installation of these crossmembers, with any of the above mentioned transmissions, requires the use of an aftermarket Prothane™ 7-1604 polyurethane mount or the stock/aftermarket rubber mount of which it is a replacement for.

A suitable lifting jack will be required to install this crossmember with the appropriate transmissions for which it is intended. An automotive lift or a jack and jack stands will be required to safely raise and support the vehicle.

CAUTION! WORK ONLY ON A LEVEL SURFACE. USE JACKS /JACKSTANDS OF SUFFICIENT CAPACITY TO LIFT AND SUPPORT YOUR VEHICLE. NEVER WORK UNDER A VEHICLE SUPPORTED BY A FLOOR OR BUMPER JACK.

INSTALLATION:

NOTE: These instructions have been written with the assumption that there is an LS engine present in your car that is mounted to the engine cradle with either stock GM or Hooker 4th-gen F-body LS swap engine brackets. Successful installation of these crossmembers with any other type or brand of engine brackets is questionable.

- 1. Check that the hardware package includes the following:

Qty.	Description
1	Crossmember Assembly
1*	T56 Magnum Spacer

*If you are installing a T56 Magnum transmission, the included two-hole spacer is to be installed between the crossmember and the isolator to compensate for the isolator mounting surface of the T56 Magnum being closer to the transmission output shaft centerline than the same surface on an LS 4th-gen F-Body T56. Leaving this spacer out will increase the engine inclination angle beyond that intended by Hooker™ and decrease the ground clearance of Hooker™ headers and/or exhaust systems designed for this application.

- 2. Raise and support the vehicle on a jack stands or an automotive lift.

3. Support the rear of the transmission with a floor jack or other suitable lifting device and remove the existing transmission crossmember from the vehicle, if present.

4. Install the Hooker crossmember to the car in the following manner:

4th-gen F-body T56 /T56 Magnum installations – Install a Prothane™ 7-1604 polyurethane isolator, or its stock/aftermarket rubber equivalent onto the bottom of the transmission, then attach the Hooker crossmember to the car using the removed factory fasteners. Lower the transmission onto the crossmember and attach the transmission isolator to the crossmember using the fasteners included with the isolator. If the installation is an aftermarket T56 Magnum application, insert the included 2-hole spacer between the isolator and the crossmember as the transmission is being lowered onto the crossmember.

4L60-4L70 installations- Install a Prothane™ 7 – 1604 polyurethane isolator, or its stock/aftermarket rubber equivalent onto the bottom of the transmission. Attach the available **71223002HKR** adapter bracket to the center of the Hooker crossmember, as shown in **Images 1&2**, then attach the crossmember to the car using the removed factory fasteners. Lower the transmission onto the crossmember adapter and attach the transmission isolator to the adapter using the fasteners included with the isolator.

4L80-4L85 installations – Install a Prothane™ 7-1604 polyurethane isolator, or its stock/aftermarket rubber equivalent onto the bottom of the transmission. Attach the available **71223003HKR** adapter bracket to the center of the Hooker crossmember, as shown in **Images 3&4**, then attach the crossmember to the car using the removed factory fasteners. Lower the transmission onto the crossmember adapter and attach the transmission isolator to the adapter using the fasteners included with the isolator.



TH400/2004R installations- Install a Prothane™ 7-1604 polyurethane isolator, or its stock/aftermarket rubber equivalent onto the bottom of the transmission, then attach the crossmember to the car using the removed factory fasteners. Place the available **12650HKR** adapter block between the crossmember and isolator and lower the transmission onto the adapter block. Attach the transmission adapter block and isolator to the crossmember using the fasteners included with the adapter block.

NOTE: The optional Hooker **71223004HKR** adjustable torque arm bracket can be used with any of the above transmission installations for those wanting or needing a torque arm anchor mechanism that is compatible with these crossmembers.

COMPATIBILITY INFORMATION:

These transmission crossmembers were specifically designed for bolt-in compatibility with the HOOKER™ LS swap engine mounting bracket kits, headers and exhaust systems also developed for this vehicle application, or for use in swapping various non-stock transmissions into a 1998-2002 F-body vehicle.

Hooker™ **70201301-RHKR** and **70201302-RHKR** 1998-2002 F-body mid-length headers and dual exhaust systems are installation compatible with these crossmembers; installation of Hooker dual exhaust systems on a 1993-97 F-body will require the installation of a Hooker 71223002HKR body notch panel, or similar clearancing action to the driver side body brace to obtain the needed clearance.

LIMITATION OF LIABILITY – DISCLAIMER:

The regulation of emissions production, noise levels, and safety standards is undertaken by the federal government, each of the fifty state legislatures, and by many local municipalities, towns, and counties.

HOOKER™ makes no warranties of merchantability, of fitness for particular purpose, or that its products are approved for general use, or that its products comply with laws, regulations, or ordinances in the state where they may be sold to the ultimate purchaser, the consumer.

Unless expressly stated to the contrary in the catalog, instruction sheet; or price list, the entire risk as to the conformity of any company product in any such state and as to repair should the product prove to be defective or non-conforming, is on the retail purchaser, the buyer, the ultimate consumer, of such product and it is not upon the seller, distributor, or manufacturer.

In this connection, the retail purchaser, the buyer, the ultimate consumer assumes the burden of the entire cost of any and all necessary service, alterations, or repair.