



**1970-81 2nd Gen F- Body LS SWAP Transmission Crossmember
4th Gen T56 or T56 Magnum
(For use with Detroit Speed Inc. Sub-frame)
71222006HKR**



Installation Instructions

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 2nd-gen F-body LS engine swap project. They are designed specifically for use with Detroit Speed Inc. front sub-frames. If this crossmember is being used in an application that uses a front sub-frame other than the one offered by **DSE Inc.**, you will need to verify the crankshaft centerline height and drive line angles are correct for your application.

BEFORE STARTING:

Your vehicle must be raised a minimum of 18 inches. A floor hoist is ideal. If no hoist is available, we strongly urge the use of axle stands as a safety measure. **Please read and understand these instructions and disclaimer in their entirety before attempting installation.**

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

INCLUDED HARDWARE:

Accessory Pack Contents:		
P/N	Qty.	Description
505R76	4	7/16-14 x 1 1/4" Flange Bolt
199R11000	1	Instruction Sheet
599R94	2	Blackheart Decal

PARTS LIST:
1 – Crossmember
1 – Left Backing plate
1 – Right Backing Plate
2 – 4 th Gen T56 Shim plates

PARTS REQUIRED:
Transmission Mount

TOOLS NEEDED:
3/8 Drive Socket Set
3" Extension Or Equivalent
1/2" Chuck Electric Drill
7/16 Drill Bit
Deburring Tool / Rotary File
Thread Locking Compound
Tape Measure

IMPORTANT! Please read and understand instructions before attempting installation.

PRE-INSTALLATION:

1. Place vehicle on flat solid surface set parking brake and block front wheels.
2. **Disconnect the negative terminal of the battery.**
3. Lift the vehicle and support with jack stands.

INSTALLATION:

1. Install the engine and transmission into the chassis and bolt the engine mounts in place. Support the transmission with a floor jack or jack stand.
2. Install the transmission mount (not supplied) to the transmission tail shaft housing (**Figure 1**).
3. Install the 71222006HKR transmission crossmember on to the transmission mount (**Figure 1**).
4. Check that the transmission output shaft is centered between the frame rails (DSE ONLY) by measuring from frame rail to frame rail. The center of the output shaft should be exactly half the measurement (**Figure 1**).

NOTE: If your vehicle is equipped with anything other than a DSE sub-frame, you will need to consult the manufacturer for the proper output shaft location (offset or center).

5. Adjust the crossmember so the (x2) center bolts of the transmission mount are centered in the slotted holes in the center of the Hooker crossmember. This will provide a moderate amount of adjustability for future installs.
6. Tighten the bolts to the transmission mount. Be sure the crossmember is square.
7. Use the floor jack and raise the transmission so the crossmember just touches the floor pan.
8. Double check the crossmember and output shaft are positioned correctly.
9. Clear the area above the crossmember inside the car that may be damaged by the drill bit when it comes through the floor.
10. Drill a 7/16" hole in the floor pan using the outside holes in the crossmember as a guide (**Figure 1**).
11. Install a supplied 7/16" bolt through the crossmember and floor into the supplied backing plate. Keep the area where the drill bit will come through for the next hole clear.
12. Drill a second hole using the mounting holes in the opposite side of the crossmember. Install a 7/16" bolt through the crossmember and floor into the backing plate. Keep the area where the drill bit will come through for the next hole clear.
13. Drill the remaining 2 inboard holes.
14. Remove the 2 installed bolts, place the supplied backing plates on the inside of the car over the holes drilled in the floor.

NOTE: The backing plates are designed to match the profile of the floor pan and are **Left** and **Right** specific (**Figure 2**).

15. Apply thread locking compound to the threads of the bolts and reinstall the (x4) 7/16" bolts through the crossmember into the backing plates and torque to 45 ft./lbs.

IMPORTANT: If you are installing a factory GM 4th Gen T56 transmission, install the supplied 5/16 thick shim plates between Hooker P/N 71222006HKR transmission crossmember and the floor pan. This is necessary to maintain the proper driveline angle.

16. Tighten the bolts for the transmission mount.
17. Recheck all your work and tighten all hardware and verify your drive line angles

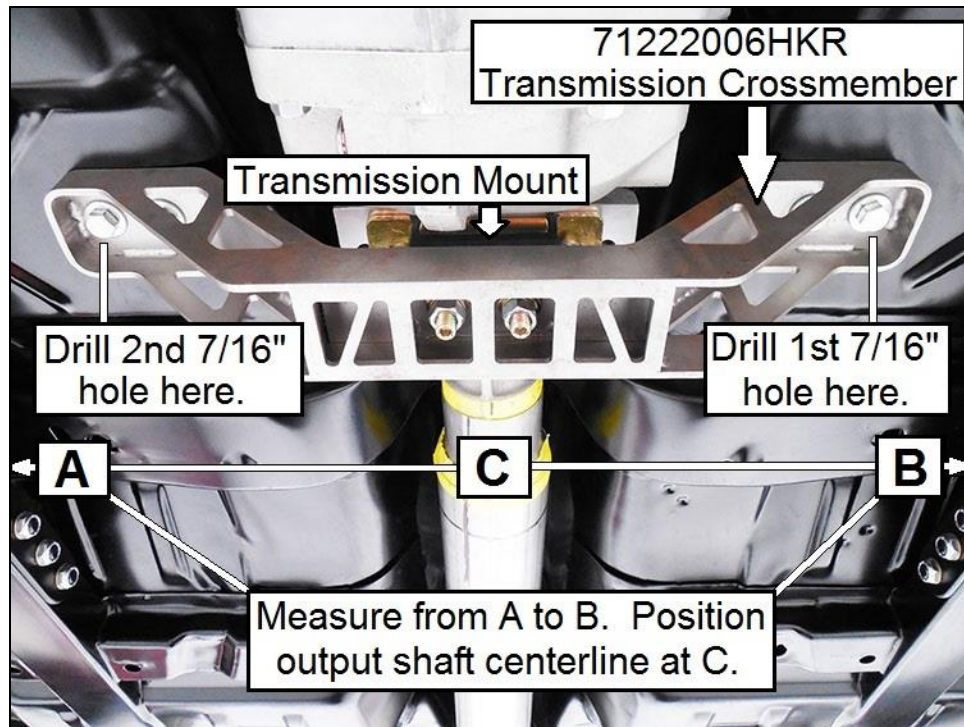


Figure 1



Figure 2