

INSTALLATION INSTRUCTIONS

Part # SUM-7897355
2001-2008 Hummer H2
Torsion bar keys

INTRODUCTION:

- Installation requires a professional mechanic
- Prior to installation, carefully inspect the vehicle's steering and drive line systems. Paying close attention to the tie rod ends, pitman arms, ball joints and wheel bearing pre-load. Also check steering-to-frame and suspensions-to-frame attaching points for stress cracks. The overall vehicle must be in excellent working condition: repair or replace worn parts
- Read the instructions carefully before attempting installation
- Check the parts and hardware against the parts list to assure that your kit is complete. Separating parts according to the areas where they will be used and placing the hardware with the brackets before you begin will save installation time
- Secure and properly block vehicle prior to beginning installation
- Always wear safety glasses when using power tools
- Please make sure that a proper torsion bar unloading tool be used when performing this installation. If you do not have one, please contact your local GM dealer to purchase one from them.
- Make sure NOT to install the Torsion Bar Keys in conjunction with another aftermarket lifted suspension system. If the Torsion Bar Keys are installed with another aftermarket lifted suspension system your Warranty will be VOID.
- Due to variations in your vehicle stock shock application, longer shock may be required.

PARTS LIST:

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
SUM-7897355-01	Torsion bar keys	2
SUM-7897355INST	Instruction sheet	1
SUM-WARNING	Warning decal	1



Please follow instructions carefully:

Before installation begins, measure from the center of the hub, to the bottom of the fender well, and record measurements below.

Pre-installation measurements:

Driver side front: _____

Passenger side front: _____

At the end of the installation take the same measurements and compare to the pre-installation measurements.

Post installation measurements:

Driver side front: _____

Passenger side front: _____

Torsion bar key installation:

1. To begin installation, block the rear tires of the vehicle so that the vehicle is stable and can't roll backwards. Safely lift the front of the vehicle and support the frame with a pair of jack stands. Place a jack stand on both the driver and passenger side.

2. Working on the driver side and using a proper torsion bar removal tool. **Special note: Make sure that a proper torsion bar unloading tool be used when performing this installation. If you do not have one, please contact your local GM dealer to purchase one from them.** Carefully remove the stock torsion bar bolt and block. Set the stock torsion bar bolt and block aside. Remove the stock torsion bar unloading tool from the stock cross member.

3. Working on the driver side, tap the stock torsion bar forward until the stock torsion bar key can be removed. Remove and discard the stock torsion bar key.

4. Locate the new torsion bar key and install into the stock location. Tap the stock torsion bar back into the torsion bar cross member until it seats properly into the new torsion bar key. Using the torsion bar unloading tool, adjust the new torsion bar key up high enough so that the stock torsion bar block and bolt can be re-installed.

5. Locate the stock torsion bar bolt and block and install into the stock location. Adjust the stock bolt so that there is at least a 1/4" of thread past the stock torsion bar block. After the completion of the installation, if more height is needed, adjust the stock bolt to achieve the proper height. **Special note: For each 1/4" of adjustment on the stock bolt equals 1" of height.**

Special note: If the stock torsion bar bolt is over adjusted, ride quality issues will occur and over adjusting the bolt is not recommended.

6. Working on the driver side, measure from the stock bump stop to the stock lower control arm. This measurement should not exceed 1/2". If you have more than a 1/2", the stock torsion bar bolt will need to be lowered until our measurement is less than a 1/2".

Repeat step # 2 - 6 on the passenger side.

7. Carefully lower the vehicle to the ground.

Congratulations, installation complete!

Special note: After the completion of the installation, It is highly recommends taking the vehicle to an alignment shop and having a proper front end alignment performed.

It is recommended that a complete re-torque is done on all bolts associated with this suspension system. It is the customers responsibility to make sure that a re-torque is performed on all hardware associated with this suspension system after the first 100 miles of installation. It is also the customers responsibility to do a complete re-torque after every 3000 miles or after every off road use. Neglect of following these steps could cause brackets to come loose and cause serious damage to the suspension system and to the vehicle.