



SMITTYBILT.COM

Works in conjunction with
Smittybilt Tow bar part#87450

87451 High angle tow bar adapter

Hardware list:

High angle adapter	qty 2
Shackle spacer (short)	qty 2
Tow bar spacer (long)	qty 2
M12-1.75x70mm hex head bolt gr. 8.8	qty 2
M12-1.75x90mm hex head bolt gr. 8.8	qty 2
M12 flat washer	qty 8
M12-1.75 lock nut	qty 4

ALWAYS check
torque of
hardware and
inspect tow bar
and all towing
components
prior to towing.
DO NOT
exceeded towing
capacity.

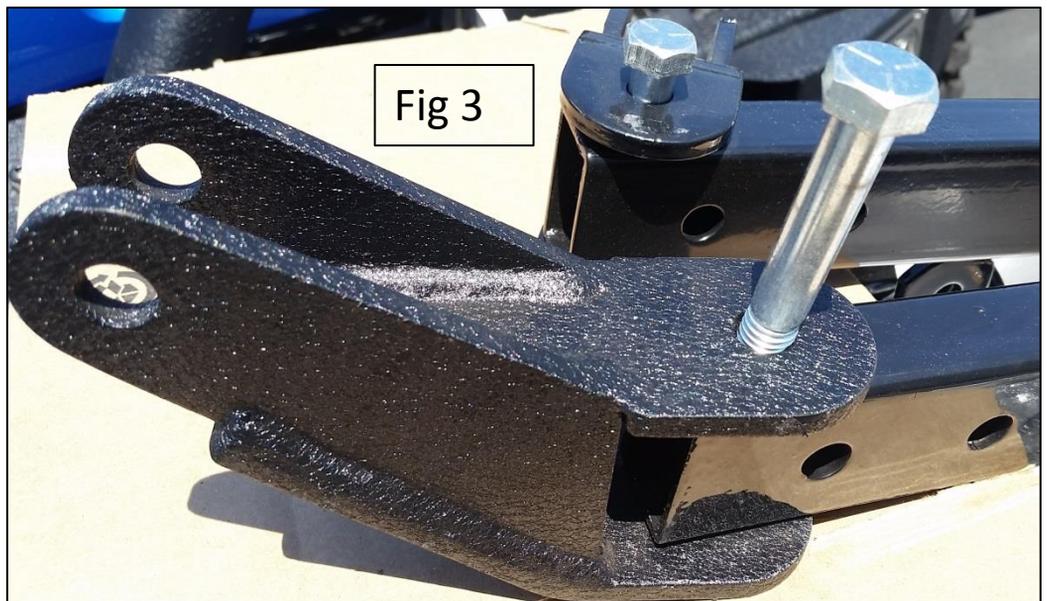
Step 1. Identify
and do an
inventory of all
parts and tools
needed for install.
Keep all parts
removed from
existing tow bar.



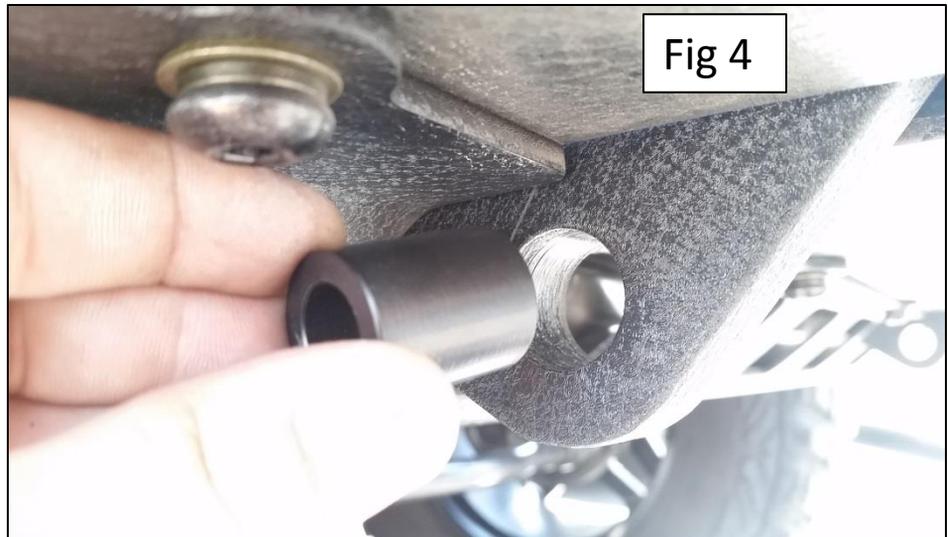
Step 2. Remove existing shackle/tow bar mounts. Inspect tow bar for damages.

Step 3. Insert tow bar sleeve into tow bar, align with first hole on the tow bar. If you are installing on a previously used tow bar, you may have to open up the tow bar or shave down the spacer if tow bar material has collapsed. Fig 2

Step 4. Attach shackle mount to tow bar using M12 bolts, flat washers and lock nut. Leave bolts loose till later. Brackets will point up when tow bar is on a flat surface. Fig 3



Step 5. Insert shackle spacer into shackle mount on bumper. Play is normal, if you wish you may use some tape on spacer to help it stay in place during the install of the tow bar. Fig 4



Step 6. Attach tow bar to bumper using Supplied M12 hardware or use ½" pull pin from existing tow bar hardware. Do not tighten hardware at this time. Fig 5



Step 7. Center tow bar and brackets on vehicle, then tighten all hardware. Check torque on all hardware and inspect tow bar before each used.



We recommend normal cleaning by using mild soap and water .(Taking into consideration your climate and driving time and conditions.)

Limited Warranties

Smittybilt's products are covered under the following limited warranties only. Note that the duration of the limited warranty differs according to the material and finish of the product purchased. Subject to the duration and conditions of the limited warranty stated below, Smittybilt warrants to the original retail purchaser that its products are free from defects in material and workmanship. All other warranties and representations express or implied, are hereby disclaimed, including fitness for merchantability and buyer's intended use or purpose. All parts are sold "AS IS" except for the limited warranties granted herein. Buyer assumes all risks as to the selection, suitability and performance of all goods and products selected. This limited warranty does not cover damage or impairment in any part due to misuse, improper installation, accident or contact with on-road or off-road hazards, product modification, improper or inadequate cleaning and/or maintenance. Smittybilt is not responsible for items damaged during shipping. This warranty is not transferable from the original buyer. For the original Buyer to be eligible for the limited warranty coverage, the Buyer must provide proof of purchase.

Customer's remedy hereunder shall be limited only to repair or replacement (at Smittybilt's option) of any defective part(s) returned to Smittybilt at customer's expense. The determination of whether or not a returned part is defective or subject to coverage under the limited warranties stated herein shall be made at Smittybilt's sole discretion.

Limited Five (5) Year / 50,000 Mile Pro-Rata Warranty (whichever occurs first) on Dual-Stage Powder Coating Products -

Smittybilt dual-stage powder coated products carry the foregoing limited repair or replacement warranty for a period of (5) years or 50,000 miles (whichever occurs first) from date of purchase against workmanship and defects in the material, provided that any claim submitted after (2.5) years from date of purchase shall, if accepted, be satisfied by Smittybilt offering customer a credit on the purchase of a replacement product equal to fifty percent (50%) of customer's initial purchase price.

To assure product quality, Smittybilt reserves the right to change product design, material, specification and finishes without prior notice to customers. This limited warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply as to you. Also, some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Smittybilt reserves the right to discontinue product lines and substitute products, or provide other remedies than those listed in this limited warranty for those discontinued products.

Warning

Rollover and other types of vehicle accidents may result in serious injury or death to you, your passengers and others sharing the road. Smittybilt accessories are decorative and are not intended to reduce or avoid injury or damage in the event of an accident. The weight and location of Smittybilt accessories may affect your vehicles' handling, stability and performance, creating an increased risk of accident or rollover. Before installing any accessory, check state laws and assure that the accessory will not obscure any lights or interfere with proper operation on your vehicle's safety equipment. Consult your owner's manual and the Smittybilt instructions, or additional safety information. Smittybilt products, nor the warnings contained herein, are not a substitute for your safe driving. Don't drink and drive, always use seat belts and don't drive faster than conditions permit.

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