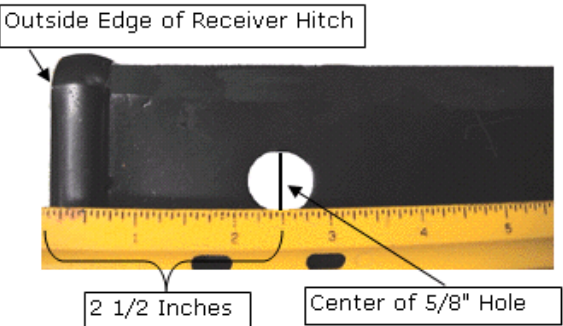
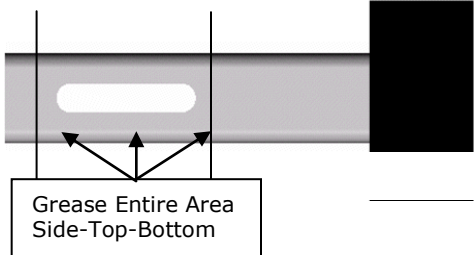
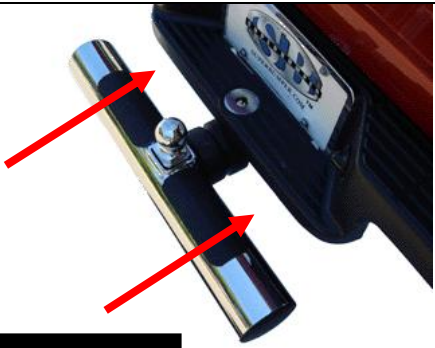


SUPERBUMPER Impact Attenuator		INSTALLATION INSTRUCTIONS	
Parts List: Qty: 1 Impact Attenuator 2 Large Outside Rubber Compression Springs 1 Plastic Hole Plug 2-3 Rubber Spacers 4 1 1/2" Rubber Compression Springs (inside shank) and 1 2" Hitch Ball			424 Model Attenuator
			2 Rubber Compression Springs (Outside)
			4- 1 1/2" Rubber Springs (Inside)
Optional Items (may or may not be included): Locking Hitch Pin			1 - 2" Hitch Ball 2-3 Rubber Spacers
Note: You can make the installation as easy or as difficult as you want. Just follow the General and Custom Installation Tips supplied.			
Installation: Step 1. Measure the distance from the center of the 5/8" pin hole to the outside edge of your receiver hitch - see photo→ The distance will be anywhere from 1 1/2" to 2 1/2 inches. If the distance is 2 1/2" <u>read the installation tips below first</u> then go to Step 2. If the distance is less than 2 1/2" read installation tips below and go to Step 3.			
Step 2. A. Grease the slotted tube end - top, bottom & sides. B. Insert the bumper into the receiver, push the bumper towards vehicle to line up holes & pin it (5/8" pin). See installation tips below.			
Step 3. A. If the distance from the pin hole to the outside is less than 2 1/2" slide on rubber spacers as needed to keep the compression distance approx. 3/8". B. Grease the slotted tube end - top, bottom & sides. C. Insert the bumper into the receiver hitch and push toward the vehicle & pin it. See installation tips below.			
General Installation Tips 1. The SUPERBUMPER is made so that the external rubber springs will have tension on them. Push the bumper approx. 1/8" towards the vehicle while inserting the hitch pin. If the pin hole distance is 2.5" it won't take too much effort to push hard enough to line up the holes. (Make sure the inner rubber springs don't slide ahead and block the pin hole.) 2. <u>When the pin hole distance is less than 2 1/2"</u> , add the rubber spacers to keep the compression distance approx. 1/8". The rubber absorbers and or spacers can be sanded or trimmed for a nice tight fit. Note: If you want to remove the bumper, you will have to push it towards the vehicle. Compressing eliminates A, B, C, and D→ 3. Grease the slotted tube end (from slot to end) to prevent rust. Once a year, remove and re-grease.		The patented compression system eliminates: A. rattles, B. the need for a \$20 anti-rattle device, C. keeps the bumper level and D. is a deterrent to theft (although a locking pin is recommended). 	
Hitch Ball Installation To install the hitch ball, turn the bumper upside down and drop in the 1" nut. Rotate nut until it drops. Slide the lock washer on to the shank of the hitch ball; screw into the nut and tighten. The nut will not turn on the inside so it only requires one wrench. The lock washer will be on the hitch ball side. This safety feature prevents the ball from backing off. Torque to 250 pounds before towing.		Push To Insert All springs will "set" over time and lose some of their length. Once they have been in for a while it will be easier to remove and install.	
NOTE: On some trailers the tongue or tongue stand may hit the bumper at extreme turning or backing angles using the enclosed hitch ball. If you feel the tongue will hit the bumper get a Curt 2" hitch ball with 2" rise (part # 40034). This will allow you to turn to nearly 90 degrees with most trailers. But most of the time when you're beyond 60 degrees the situation is unrecoverable anyway so start over.		Custom Installation Tips and Warranty Information on the back side. There are a few extra tips to make the compression system as easy or as difficult as you want. Please read those as well before installation. If you have any problems call us at 1-952-882-8800.	