

# RECEIVER SHANK REPLACEMENT INSTALLATION GUIDE FOR AIR & CUSHION RECEIVER HITCH



## TOOLS REQUIRED:

-1-1/16" & 1-1/8" wrenches    -Impact wrench with 1-1/8" & 1-1/16" sockets (or equivalent)    -7/32" allen wrench (needed for removing the spacer block on air bumper hitches)

## RECEIVER SHANK REPLACEMENT - AIR BUMPER HITCH

### DISASSEMBLY - REMOVING ORIGINAL RECEIVER SHANK

-Start by loosening the jamnut from the top bolt using a 1-1/8" wrench on the bolt head and an impact wrench with a 1-1/16" socket (or equivalent) on the jamnut. Once loosened, pull the bolt, bump cushions, and washer apart from the main hitch frame, set aside for later installation.

-Loosening the pivot bolt nut using an impact wrench with a 1-7/16" socket (or equivalent). Once loosened, pull out the bolt and remove the washer from the main hitch frame and remove the receiver shank, set hardware aside for later installation. NOTE: You may need to use a rubber mallet to get the pivot bolt to slide out.

### REASSEMBLY - INSTALLING NEW RECEIVER SHANK

-Take new receiver shank and add a generous amount of grease to the inside where the pivot bolt sits, do the same process for the pivot bolt.

-Once greased, take new receiver shank and line it up with the pivot bolt hole on the main hitch frame and the air bag paddle. Insert the pivot bolt through these holes with the pivot bolt flat head sitting on the welded tab. Install the washer and finger thread the pivot bolt nut and finish tightening with an impact wrench with a 1-7/16" socket (or equivalent) until the pivot bolt nut is snug against the washer. NOTE: DO NOT overtighten the pivot bolt nut as it may damage the main hitch frame.

-Assemble the bump cushion assembly by inserting the top bolt through the backside of the receiver shank and hitch frame, be sure to insert the bigger bump cushion between the receiver shank and main hitch frame, then slide the bolt through. Continue by sliding the smaller bump cushion over the bolt on the front side of the hitch frame, slide the washer over, add a small amount of thread lock to the jamnut, and finger thread the jamnut (see Figure 1 for reference).

-Finish by tightening the jamnut using a 1-1/8" wrench on the bolt head and an impact wrench with a 1-1/16" socket (or equivalent) and tighten until there are 2-3 threads of the bolt showing the other side (see Figure 2).

**-IMPORTANT:** DO NOT over tighten the jamnut on the bump cushion assembly past 2-3 threads, this can prevent the hitch from pivoting and prevent the hitch from functioning properly. If you are changing your receiver shank from a 2" to either a 2-1/2" or 3", you will need to remove the spacer block with a 7/32" allen wrench.

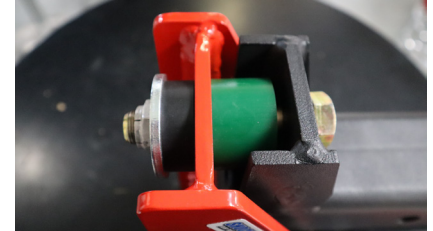


Figure 1: Order of the bump cushions for reassembly (HD hitches, the bigger bump cushion is black in color)



Figure 2: Tighten the jamnut until ONLY 2-3 threads of the top bolt are showing through the jamnut

## RECEIVER SHANK REPLACEMENT - IMPACT CUSHION BUMPER HITCH

### DISASSEMBLY - REMOVING ORIGINAL RECEIVER SHANK

-Start by loosening the rear nut from the top bolt using a 1-1/8" wrench on the bolt head and an impact wrench with a 1-1/8" socket (or equivalent) on the nut. Once loosened, pull the bolt, cap, and bump cushions apart from the main hitch frame, set aside for later installation.

-Loosening the pivot bolt nut using an impact wrench with a 1-7/16" socket (or equivalent). Once loosened, pull out the bolt and remove the washer from the main hitch frame and remove the receiver shank, set hardware aside for later installation. NOTE: You may need to use a rubber mallet to get the pivot bolt to slide out.

### REASSEMBLY - INSTALLING NEW RECEIVER SHANK

-Take new receiver shank and add a generous amount of grease to the inside where the pivot bolt sits, do the same process for the pivot bolt.

-Once greased, take new receiver shank and line it up with the pivot bolt hole on the main hitch frame. Insert the pivot bolt through the hole with the pivot bolt flat head sitting on the welded tab. Install the washer and finger thread the pivot bolt nut and finish tightening with an impact wrench with a 1-7/16" socket (or equivalent) until the pivot bolt nut is snug against the washer. NOTE: DO NOT overtighten the pivot bolt nut as it may damage the main hitch frame and prevent the hitch from functioning properly.

-Assemble the bump cushion assembly by inserting the smaller bump cushion into the cap and inserting the top bolt through the smaller bump cushion and cap. Continue by inserting the bigger bump cushion between the receiver shank and main hitch frame, then slide the bolt with the preassembled smaller bump cushion and cap through the front of the hitch frame and bigger bump cushion, add a small amount of thread lock to the rear nut, then finger thread the rear nut onto the bolt (see Figure 3 for reference).

-Finish by tightening the jamnut using a 1-1/8" wrench on the bolt head and an impact wrench with a 1-1/8" (or equivalent) socket and tighten until it is showing 1-2 threads past the nut (see Figure 4). NOTE: The receiver shank frame should be perpendicular with the hitch frame.

**-IMPORTANT:** DO NOT over tighten the nut on the bump cushion assembly, this can prevent the hitch from pivoting and prevent it from functioning properly.

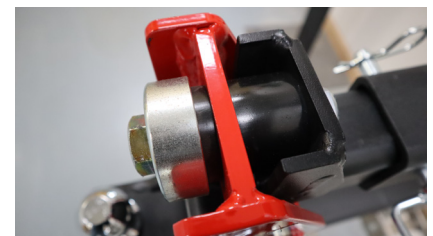


Figure 3: Order of the bump cushions for reassembly (for Impact Max, the bigger bump cushion is red in color)



Figure 4: Tighten the top bolt nut until it is showing 1-2 threads past the nut