

AIR BAG & AIR LINE REPLACEMENT INSTALLATION GUIDE FOR AIR RECEIVER HITCH



TOOLS REQUIRED:

-10mm, 15mm, 9/16", and 1/2" wrenches -Ratchet wrench with 7/16" and 1/2" sockets -Impact wrench with 9/16" socket -7/32" allen wrench

AIR BAG & PREMIUM AIR LINE REPLACEMENT - 2023 or NEWER

DISASSEMBLY

- Start by removing the top air bag bolts located on the top side of the paddle with a 7/32" allen wrench, if applicable, also remove the paddle spacer block. Continue by removing the bottom air bag bolts using an impact wrench with a 9/16" socket. Set all hardware aside for later installation.
- Using a ratchet wrench with a 1/2" socket, loosen the nut holding in the air valve and remove it from the main hitch frame. In some cases, the air line may need to be held using a needle nose pliers due to the nut being too tight which can cause the air line to spin while attempting to loosen (see Figure 1).



Figure 1: Hold air line with a needle nose pliers to prevent it from spinning during disassembly

PREPARING AIR BAG AND/OR AIR LINE

- If you are replacing just the air bag and/or the air line, remove the existing air line from the original air bag using a 10mm wrench for 12K models or 1/2" for 20K models.
- Add a generous amount of non-hardening sealant to the threads of the new/existing premium air line and finger tighten onto the new/existing air bag. Finish tightening with a 10mm wrench for 12K models or 1/2" for 20K models having the air line facing 90° "downward" (see Figure 2).



Figure 2: Air line facing 90° "downward"

REASSEMBLY

- Take the new, or assembled, air bag with the premium air line and guide in through the slotted hole on the main hitch frame with the air line facing the front of the hitch (see Figure 3). Then take the existing bottom air bag bolts, add a small amount of thread lock and thread them finger tight to hold the air bag in place.
- Guide the premium air line through the main frame of the hitch and secure it using the provided hardware with a ratchet wrench with 1/2" socket. Note that you may need additional washers that is included with the premium air line kit(s).
- Take the existing top air bag bolts and thread them by hand to attach the paddle to the air bag bolt, if applicable, place the paddle spacer block on top before threading. Finishing by tightening the top air bag bolts with a 7/32" allen wrench and the bottom air bag bolts with a 9/16" socket, and replace the air valve cap.



Figure 3: Guide air bag through slotted hole of main hitch frame with the air line facing toward the front.

IMPORTANT: If your air bag is not holding air correctly, repeat the same steps above. If there is continuously leaking, it is recommended to do a "dunk test" in a bucket of water. To do this test, air up the air bag to 45-50 PSI and gently lay it in the bucket of water to find the location of leaking. You can also spray soapy water to find it as well.

AIR BAG & COMPRESSION STYLE FITTINGS AIR LINE REPLACEMENT - 2022 or OLDER

DISASSEMBLY

- Start by removing the bottom frame support with a 9/16" wrench and an impact wrench with a 9/16" socket, set aside for re-installation later.
- Remove the top air bag bolts located on the top side of the paddle with a 7/32" allen wrench, if applicable, also remove the paddle spacer block. Continue by removing the bottom air bag bolts using an impact wrench with a 9/16" socket, set all hardware aside for later installation.
- Snip the old air line and remove the air bag from the hitch frame. With the crimp style air fittings, it is recommended to get new air line(s) and/or fittings from Shocker Hitch directly. NOTE: This are not typical crimp fittings, they are special brass elbows with an "internal" steel sleeve in the fitting to support the plastic tube (see Figure 4).
- Using a ratchet wrench with a 7/16" socket, loosen the air valve and remove it from the air bag assembly from the main hitch frame. Then using a 1/2" wrench for 12K models or 15mm for the 20K models, loosen and remove the old inner air fittings from the hitch frame. Repeat this process for the air bag fitting as well.



Figure 4: Special brass elbows with an internal steel sleeve in the fitting to support plastic tubing

PREPARING AIR LINE FITTINGS & AIR BAG

- Add a generous amount of non-hardening sealant to the threads of the new air fitting and finger tighten onto the new/existing air bag. Finish tightening with a 1/2" wrench for 12K models wrench or 15mm for 20K models and having the air fitting facing 90° "downward" (see Figure 5).
- Add a generous amount of non-hardening sealant to the threads of the main hitch frame and air valve, finger tighten, then tighten with a ratchet wrench with 7/16" socket. Then add a generous amount of non-hardening sealant to the threads of the new inside air fitting, finger tighten, then finish tightening with a 1/2" wrench or 15mm for 20K models and having the air fitting facing toward the rear of the hitch (see Figure 6).



Figure 5: Air fitting facing 90° downward

REASSEMBLY

- Take new plastic line and insert it into the brass fitting of the air bag, tighten the brass fitting coupler finger tight, then tighten 2-3 turns with a 9/16" wrench. Then take the assembled air bag and guide it through the slotted hole on the main hitch frame with the air line facing toward the front of the hitch. Insert the new plastic air line into the inside brass fitting, tighten the brass fitting coupler finger tight, then tighten 2-3 turns with a 9/16" wrench.
- Take the existing bottom air bag bolts, add a small amount of thread lock and thread them finger tight to hold the air bag in place. Then take the existing top air bag bolts and thread them by hand to attach the paddle to the air bag bolt, if applicable, place the paddle spacer block on top before threading. Finishing by tightening the top air bag bolts with a 7/32" allen wrench and the bottom air bag bolts with a 9/16" socket, restall the frame support bracket, and replace the air valve cap.



Figure 6: Inner air fitting facing toward the rear of the hitch

IMPORTANT: If your air bag is not holding air correctly, repeat the same steps above. If there is continuously leaking, it is recommended to do a "dunk test" in a bucket of water. To do this test, air up the air bag to 45-50 PSI and gently lay it in the bucket of water to find the location of leaking. You can also spray soapy water to find it as well.

AIR BAG & COMPRESSION STYLE FITTINGS AIR LINE REPLACEMENT - 2022 or OLDER

DISASSEMBLY

- Start by removing the bottom frame support with a 9/16" wrench and an impact wrench with a 9/16" socket, set aside for re-installation later.
- Remove the top air bag bolts located on the top side of the paddle with a 7/32" allen wrench, if applicable, also remove the paddle spacer block. Continue by removing the bottom air bag bolts using an impact wrench with a 9/16" socket, set all hardware aside for later installation.
- Snip the old air line and remove the air bag from the hitch frame. With the crimp style air fittings, it is recommended to get new air line(s) and/or fittings from Shocker Hitch directly. NOTE: This are not typical crimp fittings, they are special brass elbows with an "internal" steel sleeve in the fitting to support the plastic tube (see Figure 4).
- Using a ratchet wrench with a 7/16" socket, loosen the air valve and remove it from the air bag assembly from the main hitch frame. Then using a 1/2" wrench for 12K models or 15mm for the 20K models, loosen and remove the old inner air fittings from the hitch frame. Repeat this process for the air bag fitting as well.



Figure 2: Air line facing 90° "downward"

PREPARING AIR BAG AND/OR AIR LINE

- If you are replacing just the air bag and/or the air line, remove the existing air line from the original air bag using a 10mm wrench for 12K models or 1/2" for 20K models.
- Add a generous amount of non-hardening sealant to the threads of the new/existing premium air line and finger tighten onto the new/existing air bag. Finish tightening with a 10mm wrench for 12K models or 1/2" for 20K models having the air line facing 90° "downward" (see Figure 2).



Figure 3: Guide air bag through slotted hole of main hitch frame with the air line facing toward the front.

REASSEMBLY

- Take the new, or assembled, air bag with the premium air line and guide in through the slotted hole on the main hitch frame with the air line facing the front of the hitch (see Figure 3). Then take the existing bottom air bag bolts, add a small amount of thread lock and thread them finger tight to hold the air bag in place.
- Guide the premium air line through the main frame of the hitch and secure it using the provided hardware with a ratchet wrench with 1/2" socket. Note that you may need additional washers that is included with the premium air line kit(s).
- Take the existing top air bag bolts and thread them by hand to attach the paddle to the air bag bolt, if applicable, place the paddle spacer block on top before threading. Finishing by tightening the top air bag bolts with a 7/32" allen wrench and the bottom air bag bolts with a 9/16" socket, and replace the air valve cap.

IMPORTANT: If your air bag is not holding air correctly, repeat the same steps above. If there is continuously leaking, it is recommended to do a "dunk test" in a bucket of water. To do this test, air up the air bag to 45-50 PSI and gently lay it in the bucket of water to find the location of leaking. You can also spray soapy water to find it as well.

SAFETY NOTICE

-Towing capacity is limited by the lowest rated component. Do NOT exceed the Gross Vehicle Weight Rating or Shocker Hitch weight ratings. Do NOT exceed 100 PSI with the Shocker Hitch Air Bumper Hitch air bag assembly. Any modification to Shocker Hitch products voids warranty and is done so at your own risk. Manufactured by Shocker Hitch® USA in Jamestown, ND.

ADDITIONAL INFORMATION

-Use your cell phone to scan the QR codes below for additional setup guides, air pressure guides, and our Shocker Hitch YouTube channel.



Set up guides



Air pressure guides



YouTube channel

THANK YOU FOR CHOOSING SHOCKER HITCH AIR RIDE TOWING HITCHES

Shocker Hitch: Safer Smoother Towing - 2801 3RD AVE SW, JAMESTOWN ND, 58401 - (701)-707-2666

-Email: service@shockerhitch.com -Website: www.shockerhitch.com -Installation Videos on [Shocker Hitch](#) YouTube Channel