

Shocker Air Ride Receiver Hitch Installation & Setup Guide



14K Air
14,000 / 1,400 lb



Streamline
10,000 / 1,000 lb



HD Air
20,000 / 2,000 lb



HD Max Black
20,000 / 2,000 lb



HD Max Super Drop
20,000 / 2,000 lb

Shown: current base ratings, gross trailer weight (GTW) / tongue weight (TW). Sport and Trail Force are on page 2. Match the model, receiver size, frame and rating label on your actual hitch. This guide does not increase the capacity of an older unit.

Install the standard / HD air receiver

1

Release air before inserting the hitch.

With the trailer disconnected and hitch supported, depress the valve core with the supplied retaining clip. While releasing air, press the paddle down or squeeze the plates together to compress the bag. Release the valve core before releasing the paddle.

2

Insert and secure the receiver shank.

Match the shank to the vehicle receiver. Slide it fully into the receiver, align the holes and install the 5/8-inch receiver pin and retaining clip.

3

Choose the attachment and height.

Use page 3 to select a compatible attachment that keeps the loaded trailer level. Install both attachment pins and all retaining clips fully.

4

Connect, load and set the air pressure.

Latch the coupler and load the trailer for travel. Inflate at the air valve until the frame lightly compresses the truck-side bump cushion. Verify paddle/spacer contact under the receiver. Follow page 2; never exceed 100 PSI.



Release air and compress the bag before insertion.



Attachment secured with both pins and retaining clips.



Add air after connecting and loading the trailer.

Before towing: connect safety chains and electrical cord; check coupler, pins, clips, clearance, lights and brakes. Towing capacity is limited by the lowest rated component.

Sport™ and Trail Force® model notes



Sport™

8,000 lb GTW / 800 lb TW.

Follow page 1: release air, compress the bag, secure the shank and attachment, then connect and load the trailer. Use the valve under the hitch.



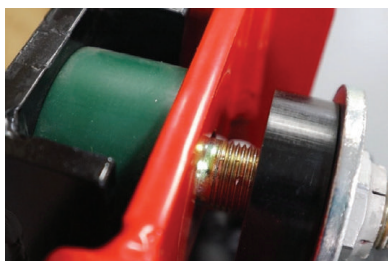
Trail Force®

14,000 lb GTW / 1,400 lb TW.

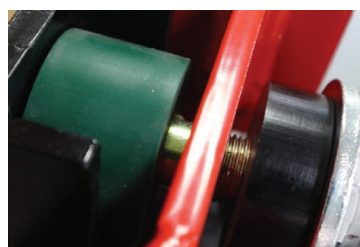
Secure the shank and attachment with pins/clips. Connect and load the trailer. Inflate through the valve below the air bag. Use the 10-hole chart.

Set pressure by cushion contact

With the trailer connected and loaded for travel, add air until the main frame touches and lightly compresses the truck-side (tailgate-side) bump cushion. For heavy loads, compress that cushion by approximately 1/8 inch. Recheck when the load changes. **100 PSI is the maximum, not a target.**



Gap: add air.
Truck-side cushion is not touching the frame.



Contact: stop.
Frame lightly compresses the truck-side cushion.

Check alignment before deciding on a spacer



Good angle; no spacer needed.



Excessive angle; check spacer fit.



Spacer corrects the paddle angle.

Judge with the trailer loaded and air pressure correctly set. The paddle should be approximately parallel with the receiver. More than about 10° of angle may require a spacer on top of the paddle. HD 2-inch models come with it installed; some HD 2-1/2-inch models include it in the box. It is generally not needed on 14K models, which have a taller air spring.

Before removing spacer hardware: unhook the trailer, support the hitch and release all air pressure. Fit the correct spacer on top of the paddle using the two supplied 3/8 × 3/4-inch bolts and Allen wrench. If your hardware differs, confirm the kit before proceeding. Reload, reset air pressure and recheck contact and angle. A spacer does not increase capacity.

[Full spacer-block guide and video](#) | Do not use extra air pressure above 100 PSI to correct alignment.



AIR RIDE RECEIVER HITCH

Attachment ratings and model-specific drop / rise

Choose the chart for your air receiver frame

All measurements below are inches. **D = drop; R = rise; L = level (zero)**. Count the vertical frame holes and identify the hitch before using a column. Do not use Impact or XR ranges for an air receiver. Measure with the trailer level and check ground clearance.

Attachment / part family	Original 7 holes	Air 8 holes	Trail Force 10 holes	Super Drop 12 holes
Combo ball - SH-340	L to 3.5 D	L to 4.5 D	L to 6.5 D	L to 8.5 D
Drop ball - SH-320125	4.5 to 7.5 D	4.5 to 8.5 D	4.5 to 10.5 D	4.5 to 12.5 D
Raised ball - SH-310125	2 R to 1 D	2 R to 2 D	2 R to 4 D	2 R to 6 D
Pintle hook - SH-333	3 to 6 D	3 to 7 D	3 to 9 D	3 to 11 D
Raised pintle hook - SH-335	L to 4 D	L to 5 D	L to 7 D	L to 9 D
Pintle & ball - SH-334	3 to 6 D	3 to 7 D	3 to 9 D	3 to 11 D
Drawbar / cushioned drawbar SH-350 / SH-370	L to 3.5 D	L to 4.5 D	L to 6.5 D	L to 8.5 D
Clevis - SH-360	3.5 to 6.5 D	3.5 to 7.5 D	3.5 to 9.5 D	3.5 to 11.5 D

Maximum attachment ratings

Attachment or operating mode	GTW (lb)	TW (lb)
Combo, drop or raised ball: 2-5/16-inch ball	20,000	2,000
Combo, drop or raised ball: 2-inch ball	10,000	1,000
Pintle hook SH-333 / raised pintle hook SH-335	20,000	2,000
Complete SH-334: pintle mode / 2-5/16-inch ball mode	16,000	3,000
Complete SH-334-2: 2-inch ball mode	12,000	3,000
Drawbar SH-350, cushioned drawbar SH-370, clevis SH-360	20,000	0

Use the lowest GTW and lowest TW limits separately. Attachment ratings do not raise the capacity of the hitch base, vehicle, receiver, ball, coupler or trailer. Do not calculate TW as a percentage of GTW. Drawbar and clevis mounts have 0 lb vertical tongue load and are not for use with a hitch ball.

SH-334: the proper ball must be installed before towing, including pintle mode. The no-ball SH-334 is a replacement part only. Sway-tab mounts use the corresponding ball-mount range and rating. SH-331-332 is discontinued; legacy bolt-on assemblies (including SH-336) must follow their own marked ratings and instructions. Do not substitute SH-334 ratings.

Match the replacement part to your actual hitch

Confirm the model, rating label, air-line or direct-valve fitting and existing frame hardware before ordering. Select the correct option on the linked product page; parts that look similar may have different fitment.



SH-280

Pivot bolt kit

For the matching dowel-pin frame. Confirm your frame hardware.



SH-202

Air spring bag

8K / 10K / 12K / 14K; bag only. Match fittings.



SH-204

HD air spring bag

20K HD; bag only.



SH-SPBK-REC

Spacer block kit

Fitment and safe installation: page 2.



SH-202-SH-212

Bag + air line

10K / 12K / 14K receiver models. Match the line/fitting.



SH-204-SH-214

HD bag + air line

20K HD receiver models.



SH-260

Bump cushions

Green + black: 8K, 10K and 14K models.



SH-HD260

HD bump cushions

Purple + black: 20K HD models.

Sport / Trail Force direct-valve kit: [SH-202-SH-90294-X](#) is the bag + valve option; confirm the existing fitting. Do not replace a direct-valve setup with an HD bag/air-line kit. Older hardware needs its matching replacement.

Routine maintenance and pre-tow checks

Lubricate: regularly grease the main pivot through its grease zerk. Grease the hitch ball/coupler contact surface to reduce wear.

Leave the top jam-nut bolt at its factory setting. Do not tighten it; overtightening restricts pivot movement and makes the ride stiff.

Inspect: check pins, retaining clips, coupler, air system and component condition. Set pressure after loading and recheck after load changes. Never exceed 100 PSI. Do not modify the hitch; modifications void the warranty.



[Installation & videos](#)



[Air-pressure guide](#)



[Warranty registration](#)