

Kelderman Air Ride

Inside this manual:

Tools required for installation	2
Preliminary and safety instructions, installation steps 1-5	2
Parts location, installation steps 6-7	3
Installation step 8	4
Installation steps 9-11	5
Installation steps 13-17	6
Self-leveling kit plumbing detail	7
Contact Information	8

2005 & Newer Ford Front System

Kelderman Air Ride systems are developed for 2005 & newer Fords. This system was developed to improve the ride of the 3/4 & one-ton Ford pickups. There are several advantages to equipping your truck with air ride suspension:

- **Improves the ride of the truck**
- **Increases load carrying capacity**
- **Easy to install, maintenance free**



2005 & newer Ford Front



Warranty Disclaimer Notice Read Before Beginning Installation

Some Kelderman Air Ride kits contain both fine thread and course thread fasteners, fittings and air bag mountings. Before attempting to tighten any threaded portion of the Air Ride, check

to be sure the threads are the same size and thread count before attempting to tighten. Damaged or cross-threaded fasteners, fittings and air bags caused by improper size. Thread count or

misalignment are not covered by warranty.



2005 & Newer Ford

Tools Required for Installation of the Air Ride Unit

Before installation of the Air Ride unit, prepare a smooth, flat, hard surface and have all tools and equipment needed for the job. Chock the rear wheels of the truck, to prevent it from rolling forward or rearward. Place a jack on each side of frame behind the front wheels, in the vicinity of the front seat.

Tools and equipment required:

Drill

7/16" Drill Bit

(2) Jacks

(2) Jack Stands

Wheel Chocks

Combination Wrench Set

Socket Set

Center Punch & Hammer



! DANGER

****When raising or lowering the truck, keep jack stands in place to prevent the truck from falling, which could cause severe personal injury or death****

Installing the Air Ride

Step 1. Measure the height of the front of the truck while setting on a level surface. Record this measurement here: _____"

Step 2. Lift up the truck by placing a jack under the frame on the side of the truck which will be installed first. Place jack stand next to the jack for safety. Remove the front tire.

Step 3. Place a jack under the axle of the side of the truck that will be installed first. Remove the top nut on the shock and the nut

on top of the sway bar end link

Step 4. Remove the two bolts that hold the brake sensor to the bottom spring mount. Remove the 18 mm bolt that holds the bottom of the coil spring in place. Lower the jack under the axle and remove coil spring.

Step 5. Locate the upper air bag mount. Pull plate out towards you and to the front of the vehicle. Hold the bracket up in the factory leaf spring perch and mark the holes.

Remove the bracket and use a center punch to locate the holes. Use a 7/16" drill bit and drill the two holes. Use the (2) 3/8" x 1-1/4" bolts to fasten the upper bag mounts in place.

Installation Instructions (continued)

Step 6. Locate the bottom air bag bracket and air bag. Bolt the bottom of the air bag to the bracket. Do not tighten yet.



**Recommended torque ratings on bolts:
3/8" grade 8 fine thread - ft. lbs.
factory bolts - 45 ft. lbs.**

Step 7. Bolt the bottom air bag bracket into the axle using the 22mm bolt. Fasten the top of the air bag into the top bag mount. Now tighten the bottom of the air bag. Use the 1/4" x 1" bolt and nut to fasten the brake sensor.



Installation Instructions (continued)

Step 8. Jack the axle up and reconnect the sway bar end link and refasten shock.

Step 9. Repeat the steps for the other side.

Step 10. Thread the air line fitting into the top of the air bag.

Step 11. If this kit is manual fill, route the air line to where you want to locate the fill valve. Make sure to keep the line away from heat and sharp objects.

Step 12. If you are hooking the bags up to a solenoid, use the provided instructions.

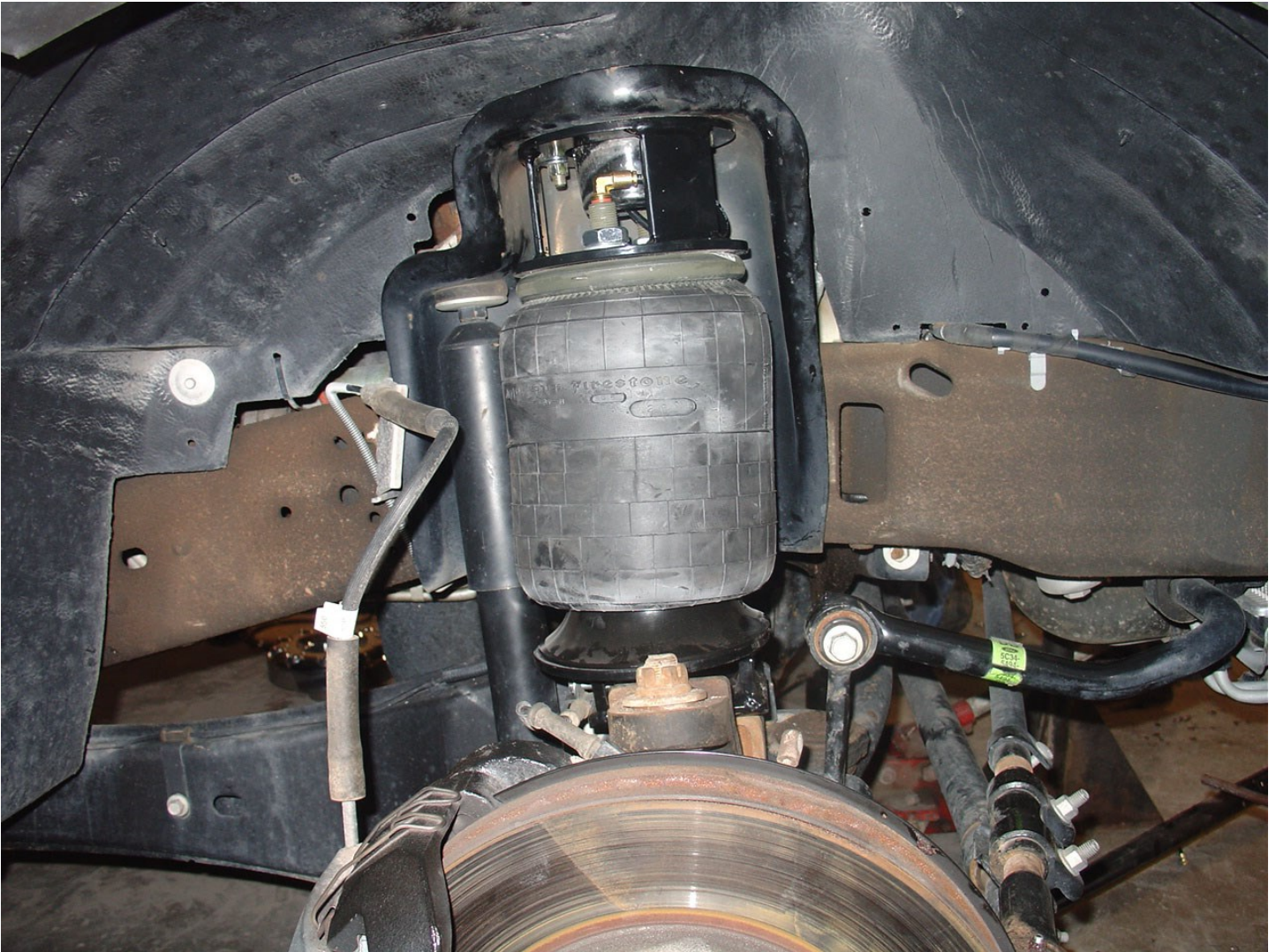
Step 13. After both sides are installed, add air to the bags. Use the original measurements in step one to get the original ride height back. Inflate each side a little at a time to try and keep similar pressures in each side. Once the ride height is achieved, check the pressure and record this. The pressures may not be the same, however they should be within 10 lbs. of each other.



2005 & Newer Ford

***NOTE:** *There is no magic number for air pressure requirements. All you have to do is go by the truck ride height. Apply air to the system until the vehicle is at the stock ride height. Do not be surprised if the pressure is different between sides. If the kit you purchased has adjustable shocks, start at the middle setting and adjust the settings until you discover the best ride for you and your truck.*

Step 14. *Make sure the bags are not rubbing on anything. Make sure to check the back side of the bag for foreign objects that might harm the bag. The bags should last the lifetime of the vehicle as long as they are not rubbing on anything. Start the motor and slowly turn the wheel all the way to the right and to the left. Make sure nothing is rubbing on the bag while the wheel is turned.*



Contact Information

Kelderman Air Ride appreciates your business. We strive to meet the needs of our customers by providing the highest quality products. If you have any questions concerning this system, please call or email us at the following:

2686 Highway 92

Oskaloosa, Iowa 52577

Phone: 800-334-6150

Fax: (641)-673-4168

Email: info@kelderman.com

www.kelderman.com/



Parts Checklist

<i><u>Quantity</u></i>	<i><u>Description</u></i>
<i>2</i>	<i>1/2" Nuts and Lock Washers</i>
<i>2</i>	<i>3/4" Jam Nuts and Lock Washers</i>
<i>4</i>	<i>3/8" x 1 1/2" Grade 8 Bolts / Lock Nuts / Flat Washers</i>
<i>2</i>	<i>1/2" x 4 1/2" Grade 8 Bolts / Lock Nuts / Flat Washers</i>
<i>2</i>	<i>22mm Bolts</i>
<i>2</i>	<i>5323 Air Bags</i>
<i>2</i>	<i>Axle-Mounted Bracket</i>
<i>2</i>	<i>Air Bag Top Plate</i>
<i>2</i>	<i>Air fittings</i>
<i>2</i>	<i>Schrader Valves</i>
<i>1</i>	<i>Bumper Sticker</i>
<i>1</i>	<i>Installation Instructions</i>
<i>1</i>	<i>Owner's Manual</i>

revised 1/11/06