800 334-6150

www.keldermanairride.com

Kelderman Air Ride

"The difference in the ride is like night and day"

Inside this manual:

Tools required for installation 2 Preliminary and safety instructions, installation steps 1-3 3 Parts location, installation steps 4-7 Installation steps 8-10 Installation steps 11-13 Installation steps 114-18 7 Self-leveling kit plumbing detail Contact 8 Information



Ford Excursion 2-bag Rear System

Kelderman Air Ride has just developed its most recent system in a line of quality air ride suspension systems. This system was developed to improve the ride of 1999 & newer Ford Excursions.



Front systems are available for 4x4s.



1999 & Newer Ford Excursion



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.

'99 & Newer Excursion

Tools Required for Installation of the Air Ride

Before installation of the Air Ride unit, prepare a smooth, flat, hard surface and have all tools and equipment needed for the (2) Jack Stands job. Chock the front wheels of the truck, to prevent it from rolling forward or rearward. Place a iack on each side of frame ahead of the rear springs, front bolts. (1.1)

Tools and equipment required:

Cutting Torch, or Grinder

- (2) Jacks

Wheel Chocks

Side Cutters

(2) C-clamps (if truck has overload springs)



1.1



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. Raise the truck up, enough to allow the rear spring lower shackle bolts to be removed. Remove both shackle bolts. (1.1)

Step 2. Using a torch, air hammer or grinder, remove the shackle hanger by cutting the factory rivet heads off. (1.2 & 1.3)

Step 3. Trim sheet metal near rear body mount to allow upper air bag framework to slide into place. (1.4 & 1.5)





Installation Instructions (continued)







Step 4. Locate upper air bag framework.

Use the circled hole as a reference point and clamp framework into place. (1.6)

Step 5. Mark and drill holes so that a 1/2" bolt will fit through. (1.7) Tighten the framework to the side of the hitch and frame using the 1/2" x 2" bolts provided. (1.8)

Step 6. Tighten the reference point bolt using the 1/2" nut w/ a rod welded to it.

Step 7. Repeat steps 2-6 on other side.



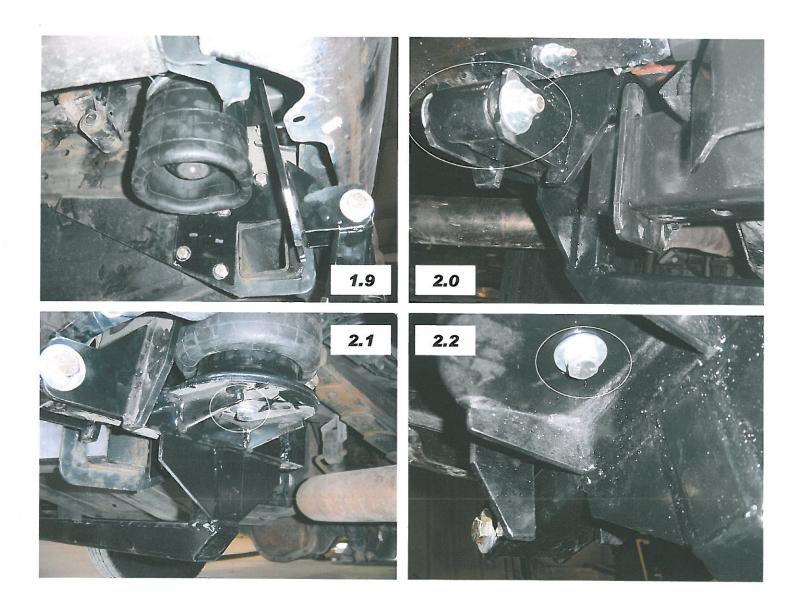


Page 4

Step 8. Locate the air bag and install the air fitting. Slide the air bag up, into the top framework, put on 7/8" lock washer and nut. Next, put on lock washer and nut on the 1/2" stud and tighten. (1.9)

Step 9. Locate the two $5/8" \times 4 1/2"$ locking nuts. Using the $5/8" \times 4 1/2"$ bolts, attach Air Ride swing arm to the rear pivot brackets on the top frame. Insert the bolts through the bracket on the top frame and the bushing on the lower frame so that the locking nut is facing the inside of the truck. Place a 5/8" washer on the bolt and put on the lock nut. Do not tighten this bolt until after Step 11. (2.0)

Step 10. Swing the lower section up to the air bags and install the $1/2" \times 3 \ 1/2"$ bolt with lock washer and flat through the lower section swing arm and into the hole in the bottom of each air bag and tighten. Repeat for other side. (2.1 & 2.2)

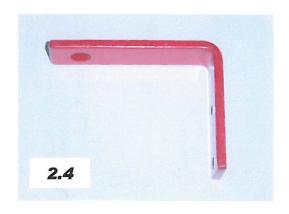


'99 & Newer Excursion

Step 11. Raise the truck frame high enough so that the spring shackles can be bolted to the front arms of the lower Air Ride section. (Use the original shackle bolt and nut that was removed in Step 1). (2.3)

Step 12. Locate height-control valve and height-control valve mounting bracket. Fasten height-control valve to bracket using the 1/4" bolts provided. Slide bracket over 1/2" air bag stud and tighten. (2.4 & 2.5)







*Adjust linkage arm so that the height-control valve arm is parallel with the bottom swing arm which in turn is parallel with the ground when inflated. (2.5)

Step 13. If the system is using an air compressor or self-leveling kit, use instructions supplied. For the manual fill system, it is now time to decide on a location for the fill valve (the only factor for determining this location is convenience. Normally, it is installed on the left side of the rear bumper near the license plate, or in one of the holes in the license plate). Drill a 5/16" hole in the desired location using caution not to damage wiring or other components of the truck. Insert the fill valve through drilled hole.

otherwise damage them. Be sure the air lines are properly secured. of the air lines to be sure they are not exposed to anything which could burn, cut or to each bag and assemble in the same manner as on the fill valve. Check the routing into airline tee. From the remaining two open ends on the tee, run a section of air line Step 14. Cut one 6" piece of air line and insert into fill valve. Insert the other end

fittings for leaks. approximately 25-30 psi and use soapy water or a leak detector to check all air line Step 15. Carefully remove the jacks and the jack stands. Inflate the air bags to

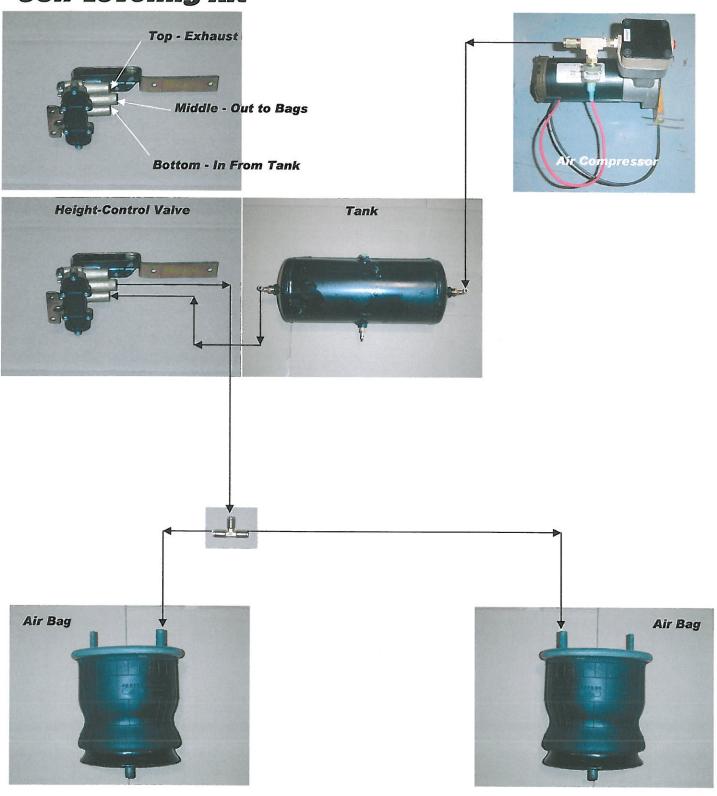
exhaust pipe, heat at the bend and pull forward. will need to be bent forward slightly. For best results, insert a long bar into the Step 16. Check clearance for exhaust with bottom swing arm. If it rubs, the exhaust

Step 17. Check all fasteners to be sure they are tightened properly.

(2.5) (2.5) Step 18. Run bottom of Air Ride (swing arm) reasonably level with ground at all



Self-Leveling Kit



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:

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AIR RIDE SUSPENSION SYSTEMS

"The difference in the ride is like night and day"

Parts List

- A) RH upper framework, LH upper framework and swing arm will height-control linkage bracket welded on (self-leveling kit option).
 - (10) 1/2" x 2" grade 8 bolts / lock washers
 - (8) 1/2" nuts
 - (2) 1/2" nuts w/ welded rods
 - (2) 5/8" x 4 1/2" bolts
 - (4) 5/8" flat washers
 - (2) 5/8" lock nuts
- B) (2) 5323 air bags
 - (4) 1/2" lock washers
 - (2) 1/2" x 3 1/2" bolts | nuts | flat washers
 - (2) Straight 1/4" air line fittings

*Self-leveling kit

Air Compressor w/ pressure switch, wires, fuse

(3) 1/4" x 1 1/2" bolts | lock washers | nuts

Tank wl fittings

(4) 3/8" x 1 1/2" bolts | lock washers | nuts

Height-control valve

Height-control valve bracket

(2) 1/4" x 1" bolts | lock washers | nuts

Height-control valve linkage w/ bolts

Parts List (continued)

RH Upper Framework (passenger's side)

LH Upper Framework (driver's side)

