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Part # 11396710
82-02 S-10 Rear AirBar
With HQ Series Shocks

Components:

2	90009000	Tapered sleeve air spring
1	90000384	Upper air spring bridge assembly
1	90000385	Lower air spring bridge assembly
1	90000386	Upper control arm axle bracket
2	90000070	Lower air spring roll plate
1	90000387	Gas tank bracket
1	90000388	Gas tank bracket w/ control arm mount
1	90002870	Upper Wishbone
2	70013364	Threaded R-Joint Ends – installed in lower bars
2	90002869	Lower bar – TW 24.50” (C-C 26.25”)
4	70010827	Delrin Bushing Half – Upper Wishbone Rear Bushings
2	90002895	Delrin Bushing Sleeves - Upper Wishbone Rear
4	70013768	Lower Bar Front WIDE R-Joint Spacers (1.240” Long)
6	70013334	NARROW R-joint Spacers (.620” Long)– Lower Bar, Rear & Wishbone, Front
2	90001617	5/8” shock stud
2	90001083	Medium bump stop
4	99566001	9/16” SAE x 4 3/4” U bolts w/ nuts & washers
2	22949999	HQ Smooth Body Shock Cartridge
4	70011138	3/4” ID Shock Bushing
2	90002102	1/2” ID Inner Sleeve
2	90002103	5/8” ID Inner Sleeve

R-Joint Components (installed in bar ends)

70013279	Retaining Ring
70012380	Wavo Wave Spring
70013275	R-Joint Center Ball
70013276	R-Joint Composite Center Ball Cage

Hardware Kit: (Part # 99010004)

Brake Line

1	99311022	5/16 x 1" uss bolt
1	99312003	5/16 uss nyloc
1	99313002	5/16 sae flat washer

Air Spring Mounting

2	99371003	3/8 x 1" uss bolts
4	99371001	3/8 x 3/4" uss bolts
6	99373005	3/8 lock washers
6	99373003	3/8 sae flat washers

Upper Bar Mount & Upper Crossmember

16	99371004	3/8 x 1 1/4 uss bolts
16	99372002	3/8 uss nyloc
32	99373003	3/8 sae flat washer
4	99431001	7/16 x 1 uss bolts

Upper Bar Differential Mount

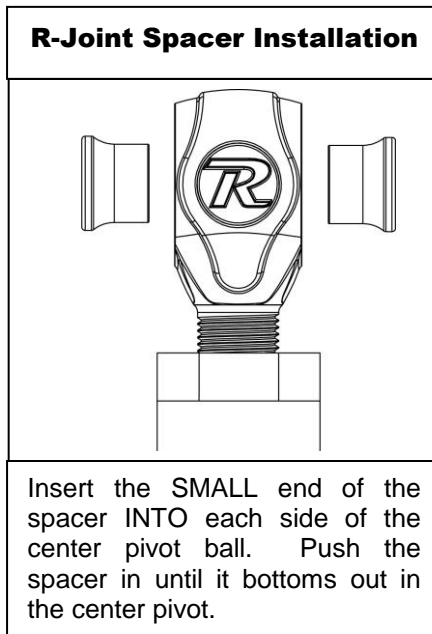
5	99311003	5/16 x 1 3/4" uss bolts
5	99313002	5/16 sae flat washers
5	99313003	5/16 lock washers

Shock Mounting

2	99501003	1/2 x 2 1/2" uss bolts
2	99502001	1/2" uss nyloc
4	99503001	1/2" sae flat washer

Bar Bolts

3	99621003	5/8 x 2 3/4" sae bolts (grade 8)
2	99621005	5/8 x 3 1/2" sae bolts (grade 8)
5	99622005	5/8 sae nyloc jam nuts
10	99623001	5/8" sae flat washer



New R-Joints will be quite stiff (75-90 in/lbs breakaway torque) until they "break in" after a few miles of use. After the break in period they will move much more freely. Because the composite bearing race contains self-lubricating ingredients, no additional lubrication is needed or desired. Any additional lubrication will only serve to attract more dirt and debris to the R-Joint and actually shorten its life.

AirBAR[®]

by Air Ride Technologies

Installation Instructions

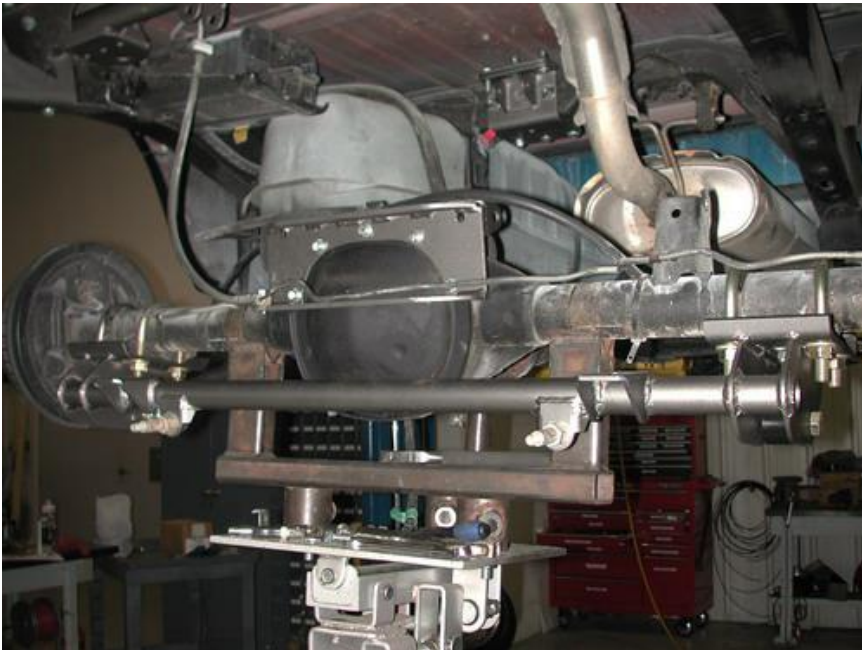
1. Raise truck and support under the frame at a safe, comfortable working height.
2. Support rear axle with jack stands.
3. Remove leaf springs.



4. Remove OEM bumpstop and bracket using a die grinder and a cutoff wheel.



5. This is how the frame should look after OEM bump stop removal.



6. Install lower airspring/shock crossmember onto rear axle housing using the supplied u bolts as shown to the left.

7. Install the upper control arm axle bracket onto the housing cover using the supplied fasteners as shown to the left. **Make sure to tighten all the link bolts at ride height.**



8. Install upper airspring/shock crossmember. This crossmember will be located by the OEM upper shock brackets. You will also need to drill 2 additional mounting hole in each framerrail, using the crossmember as a template, to complete the installation.



9. This is a close up view of the upper airspring/shock crossmember installation.



10. Install the upper control arm frame mount onto the gas tank crossmember. This is a 2 piece mount that is bolted around the tank crossmember and is located via the bungs on the inside of the bracket that are inserted into existing holes in the tank crossmember. The threaded holes are used locate bolts that prevent the bracket assembly from rocking on the crossmember. The bracket can be welded as an alternative.

NOTE: Due to the various locations of the emissions equipment, etc. over the years, you may need to relocate items such as the charcoal canister, fuel lines, brake lines, and electrical wiring. A little thought and care goes a long way here! Typically the fuel lines, brake lines and wiring can be simply move aside if they are in the way, while the charcoal canister may need to be repositioned entirely.



11. Install the R-Joint Spacers into the R-joint center pivot. The SMALL OD inserts into the R-joint. The S10 uses 2 WIDE Spacers(1.240") in each side of the R-joint. The axle end uses 2 NARROW Spacers(.620"). Install the lower bars into the axle bracket and the OEM leafspring mount. You will use the OEM leafspring bolt for the front and the supplied bolt for the axle bracket end.



12. Install NARROW R-Joint Spacers(.620") into the R-joint center pivot of the Uppwer Wishbone. The SMALL OD inserts into the R-joint. Install the upper control arm into the axle housing bracket and the gas tank bracket. **NOTE:** The upper control arm is NOT symmetrical. If it is installed upside down, it will position the rear axle approx 4" to the right. If you incur this problem simply flip the control arm over.



13. Install the airsprings into the upper and lower airspring/shock crossmembers. Be sure to use the supplied lower plates under the bottom of the airspring to prevent damage to the airspring when fully deflated.

14. Install shocks into the upper and lower airspring/shock crossmembers using the supplied shock studs on the bottom and the supplied bolts on top. When properly installed these shocks will not bottom out under full deflation and will capture the airspring extension under full inflation. **DO NOT USE SUBSTITUTE SHOCKS WITHOUT CAREFULLY CHECKING THESE DIMENSIONS!** Shocks are purchased separately.

It is the final responsibility of the installer and vehicle driver to insure that the airspring will not rub on anything at any time! Failure to follow this guideline will result in immediate failure of the airspring and will NOT be a warranty situation.