I have had a few requests to describe how the system works to air up and air down all four tires at once. I will put a simple diagram together and some photos of mine later this week. I have a Viair compressor under the hood and 2-1/2 gallon tank in the space between the rear differential and the step in the floor. Here is a brief description of how it works:

- A manifold under the hood distributes air to the ARB's
- A second manifold is separated from the first by a shut off valve.
- The second manifold has these outlets:
    - An airline coupling for airing up other peoples tires etc
    - A shut off valve to the atmosphere.
    - A line that branches off to the wheel wells. Attached to the end of each line is 3 ft of small coiled airline with an air chuck.
    - A pressure gage

To air down:

1. Close both shut off valves.
2. Attach all four air chucks.
3. Open the valve between the first and second manifold (pressurizes the tank with whatever the tire pressure is)
4. Close the valve between the first and second manifold (the tires are now connected to the second manifold only).
5. Open the valve to the atmosphere to let air out of all four tires.
6. Shut the valve and check the pressure.
7. Repeat 5 and 6 until the desired pressure is reached.
8. Disconnect the chucks and go wheelin'

To air up:

1. Close both shut off valves.
2. Attach all four air chucks.
3. Open the valve between the first and second manifold (dumps 120 psi air from the tank into the tires. It adds about 5 psi to my 33" tires)
4. Turn the compressor on to air up the tires.
5. Turn off the compressor when the desired pressure is reached.
6. Close the valve between the first and second manifold.
7. Disconnect the chucks and wish you were airing down!

Dave

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Goto eBay and search under this Item number: 190411899966

I had good experience with my 12V PUMA air compressor. I see this 110V version for sale on eBay right now, but if you contact the seller they could tell you when they will get the 12V DC version in. At the time (~2004) mine was about $110 and this (115VAC) one is selling for $139 w/ free s&h. This eBay vendor was the same one I got mine from so they have been in business for a while.

If you think about it, compressors that are marketed at off-roaders are going to be expensive because there are less people buying them. I went another route and found a compressor company that makes all sizes of compressors, and they happen to have a

12VDC model. This also has a decent size tank, 1.5 gal, mounted with the compressor and mine was 100% duty cycle. Larger than the viairs but more capacity. Basically like all the little ones you see at home depot, but in the 12V model.

So with a little extra work, I went to walmart and got some jumper cables and wired them into a plug from home depot and now have a decent off-road compressor for well less than 1/2 the cost of viair or any of those fancy ones with 33-50% duty cycles.

-Gary