

JRi Hydraulic Ride Height

Installation Manual

Tools required

- Standard hand tools (wrenches, sockets, allen wrenches, etc)
- Wiring tools (wire strippers, crimpers, etc.)
- Brake line flare tool - 37° single flare (AN) tool for 3/16" line (available at any auto parts store)

Additional parts required

A few parts will need to be purchased in addition to the kit because they are vehicle/fitment specific.

- Springs
- Wire (6 gauge) for pump power and ground
- 3/16" brake hardline (available at any auto parts store in various lengths)

Overview

This manual provides the details necessary for installation in the following order:

1. Install the shocks
2. Install the pump
3. Install the hardlines
4. Wire the pump
5. Bleed the hydraulics
6. Set the static ride height and corner balance

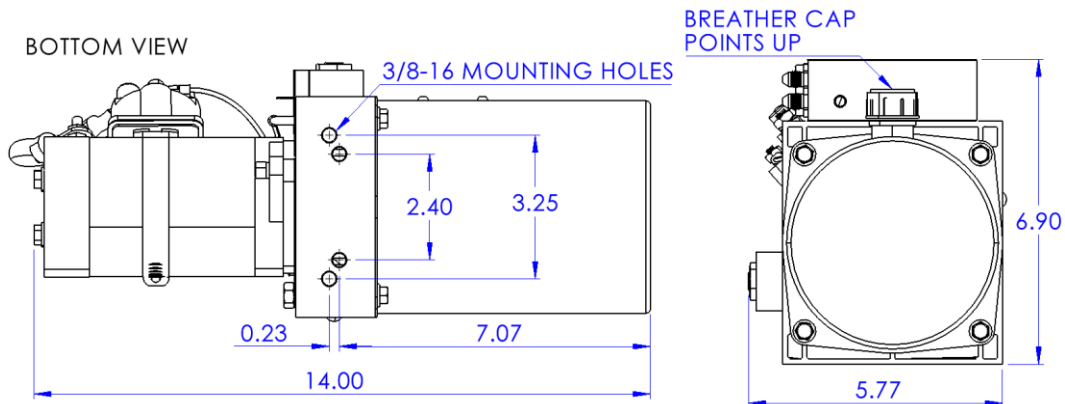
1. Install the shocks

The hydraulic cylinders can be spun to clear a suspension part or simplify hose routing, as shown below. The hose also swivels 360 degrees in the port on the shock, so it can be oriented in any direction needed.



2. Install the pump

The pump is mounted by 2 bolts, into 3/8"-16 threaded holes on the bottom of the pump, as shown below. There are 2 sets of holes for mounting width options. The pump must be mounted horizontal so that the breather/fill cap points up. The pump is roughly 14" long, 6" wide and 7" tall, as shown below.

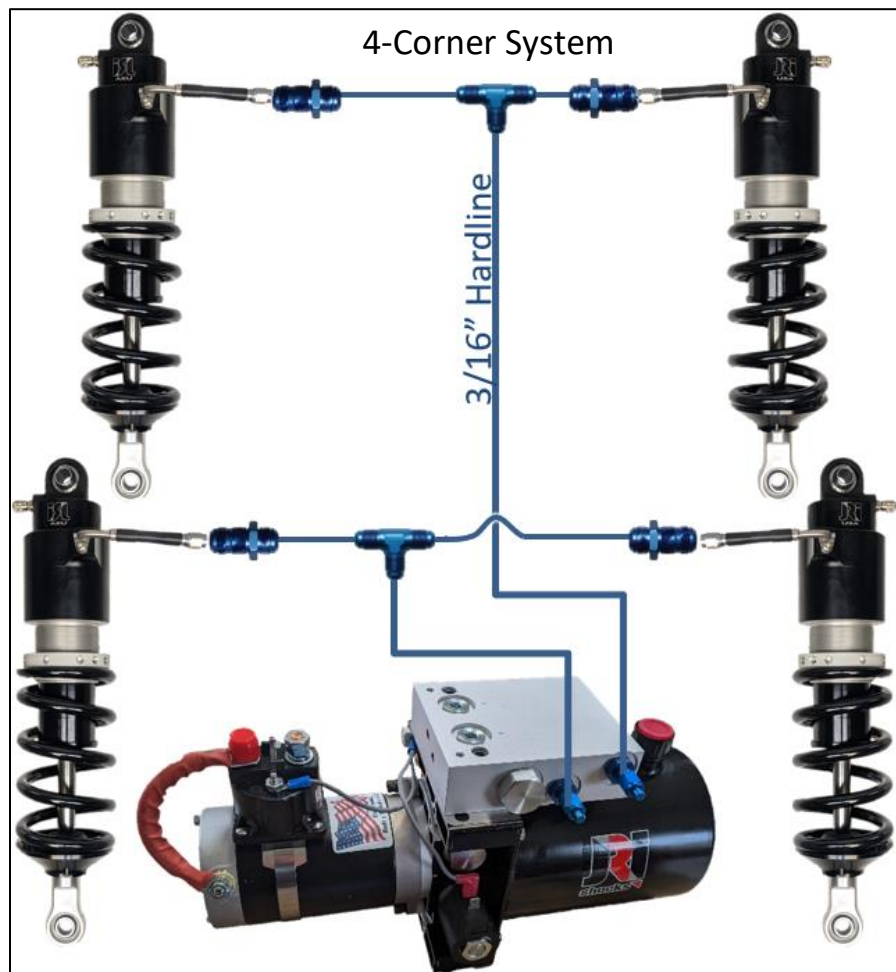


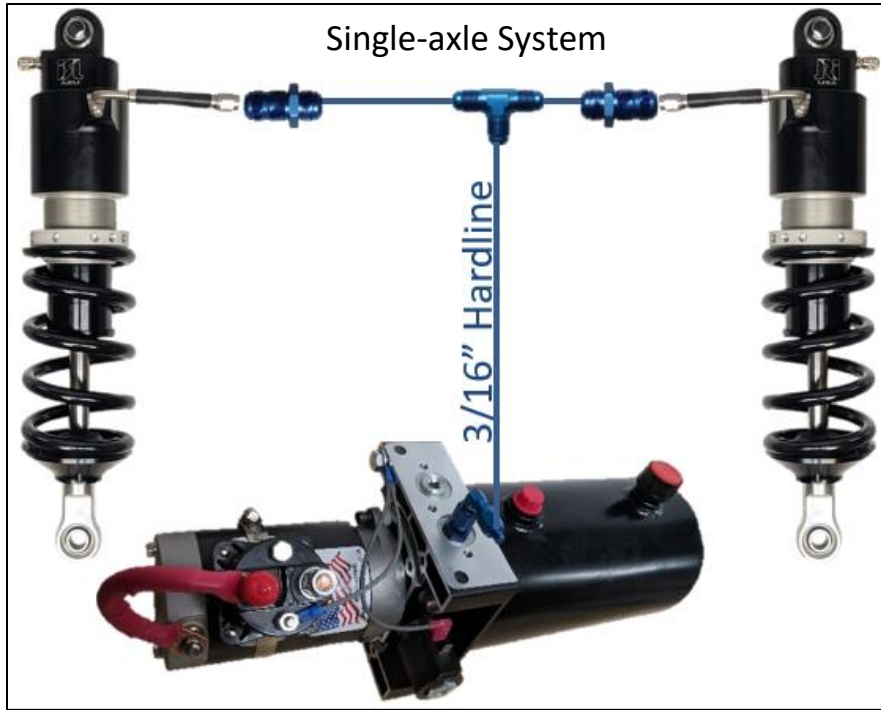
3. Install the hardlines

The ride height kit is designed to be used with standard -3AN (3/16") brake lines with 37 degree single-flare ends.

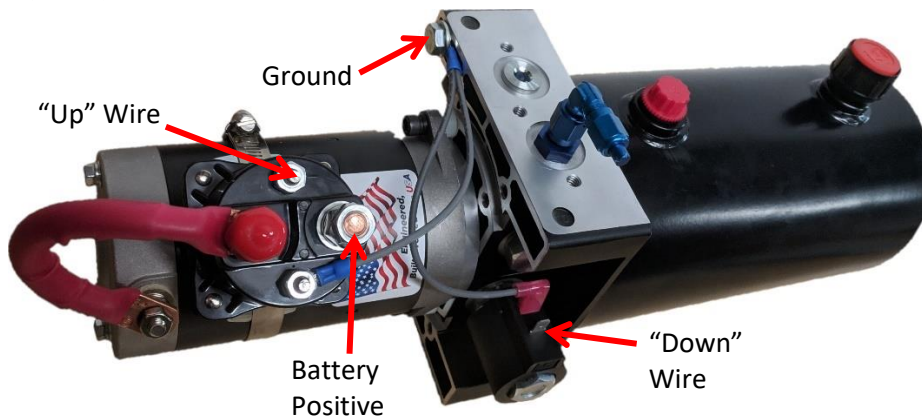


The plumbing layout is similar to a brake system. Hardlines are run from the pump to bulkhead fittings at each corner, which connect to the flex lines that are included on the shocks.

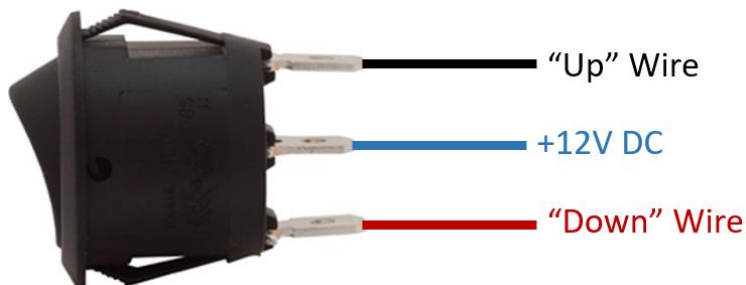




4. Wire the pump



The pump has 4 total electrical connections; positive, negative and two signals. Battery positive and ground should be connected via 6 gauge or larger wire to the pump studs shown in the image above. The supplied 100-amp fuse should be used on the battery positive wire. The “up” wire and “down” wire shown above are used to operate the pump. The center terminal should be connected to 12v.



Note: If a custom pump control system is to be used rather than a switch, it simply needs to supply 12v to the wire corresponding to the desired direction of motion.

5. Bleed the hydraulics

After the pump and shocks are mounted and the hydraulic lines are connected add at least 1 quart of the supplied Maxima 3wt hydraulic fluid to the pump by removing the breather cap on the tank and inserting a funnel.

The lines will have air pockets at this point and require a bleed procedure. Do this by loosening the hose fitting connecting to the shock flex line by about 1/4 turn. Then, toggle the pump in the "up" direction with few short bursts. When the air has been bled out and the fluid comes out steady retighten the line. Do this one-at-a-time for each shock, starting with the longest hydraulic line and ending with the shortest.



6. Set the static ride height and corner balance

Adjust the static ride height or corner balance by loosening the set screw using a 1/8" allen wrench, rotating the spring adjuster, and retightening. Do not attempt to rotate the spring adjuster without loosening the set screw.

