

# **WILD HORSES**

**FOUR WHEEL DRIVE**

Phone (209) 400-7200 Fax (209) 943-7923 [www.wildhorses4x4.com](http://www.wildhorses4x4.com)

## **Ram Assist & Hose Kit**

**#2080/2081 Date 4/19/05 rev. 0**

### **Ram mounting:**

You have to choose how and where to mount the ram. We have seen many different ways to do this. We prefer to mount the ram up high and run from the frame to the draglink. Many people mount them off the differential cover and to the tie rod. It is up to you. Center the tires so that they are straight ahead then center the steering box with the draglink disconnected by moving it lock to lock, counting the turns and turning it to the center position. If the draglink will not reinstall at this position adjust it if you have an adjustable draglink. If you don't have an adjustable draglink you could remove the pitman arm and file the keyways out so that you can then mount it on in a new position. WH has fully indexed (no keyways) dropped pitman arms which make this easy if you don't want to file them out. Once you have everything in the centered position you are ready to access where to mount the ram. Install the rod ends on the ram and put the ram in the center of its travel. We put the cylinder on the pass side and the shaft on the driver side. You can mount the shaft side close to the pitman arm on the draglink. Fabricate brackets if necessary. Once you have the drive side located it's just a matter of holding the ram up to the frame and figuring out a bracket system to tie it into the frame. 4 mounting tabs are provided as a start but additional material may be necessary. Make sure you can run through the travel of the ram without any binding of the tie rod, draglink etc. It is best to run the ram as straight as possible. Undue stress placed upon the ram shaft can cause it to bend. You should be able to take the ram off at any point in the travel without feeling bind on it.



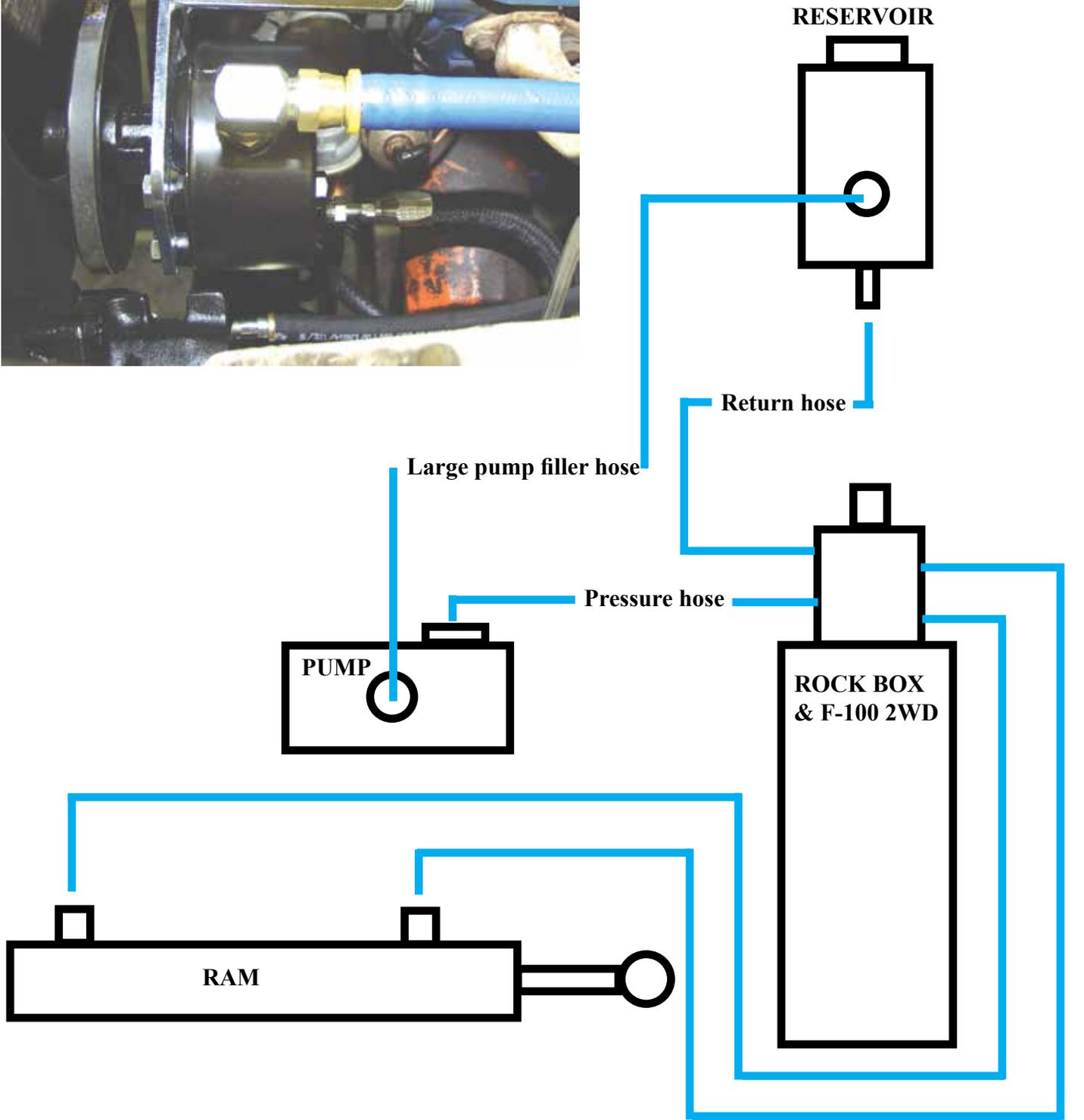
Here are a couple of shots of the ram install on the Nightmare. You may wonder why we just don't provide completed mounting brackets. The reason is by the time you go for a kit like this or just a ram for that matter you will most likely have many other custom modifications which would alter any bracket we could conceive as a one size fits all. Tie rod over, tie rod under, rod end steering etc. As much as we would like to offer such a thing we have found this to be a one at a time process and best left to the installer to determine what will work for them.

### **Ram hose kit:**

The ram hose kit comes with 4 reusable fitting and hose which you will cut to length. Install the end on the hose, it will thread on counter clockwise. Now thread the fitting into the end you placed on the hose (clockwise). Tighten it all the way down until it bottoms out. Run, route and cut hose as required for your application.

**Hose routing:**

This can be a challenge because of the tight quarters of the inner fender, frame, and steering pump. There are 4 ports on the Rock box 2 for the ram 1 pressure and 1 return. If you are not going to use the ram simply tighten the port caps down on the ram ports. You can add the ram at any time in the future. The ram port on the box closest to the fire wall goes to the driver side port on the ram. The ram port closest to the radiator on the box will go to the pass side port on the ram. Now for the hoses to the pump. The smallest port is the pressure and the larger one is for the return line.



**PASS SIDE**

**FRONT OF BRONCO**

**DRIVE SIDE**