

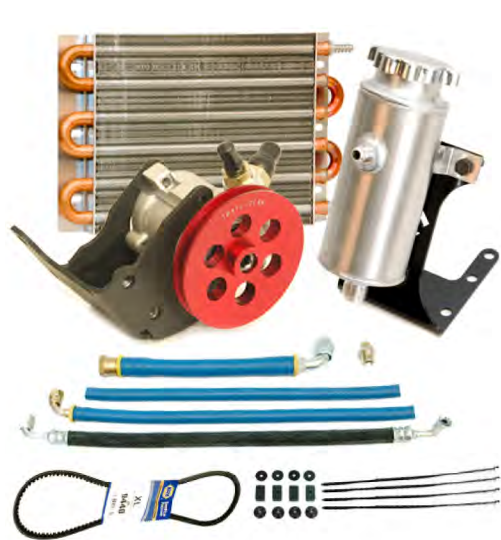


TRAIL-GEARTM

Off Road Supply

Rock-AssaultTM Steering Pump Kit, 130502-1-KIT

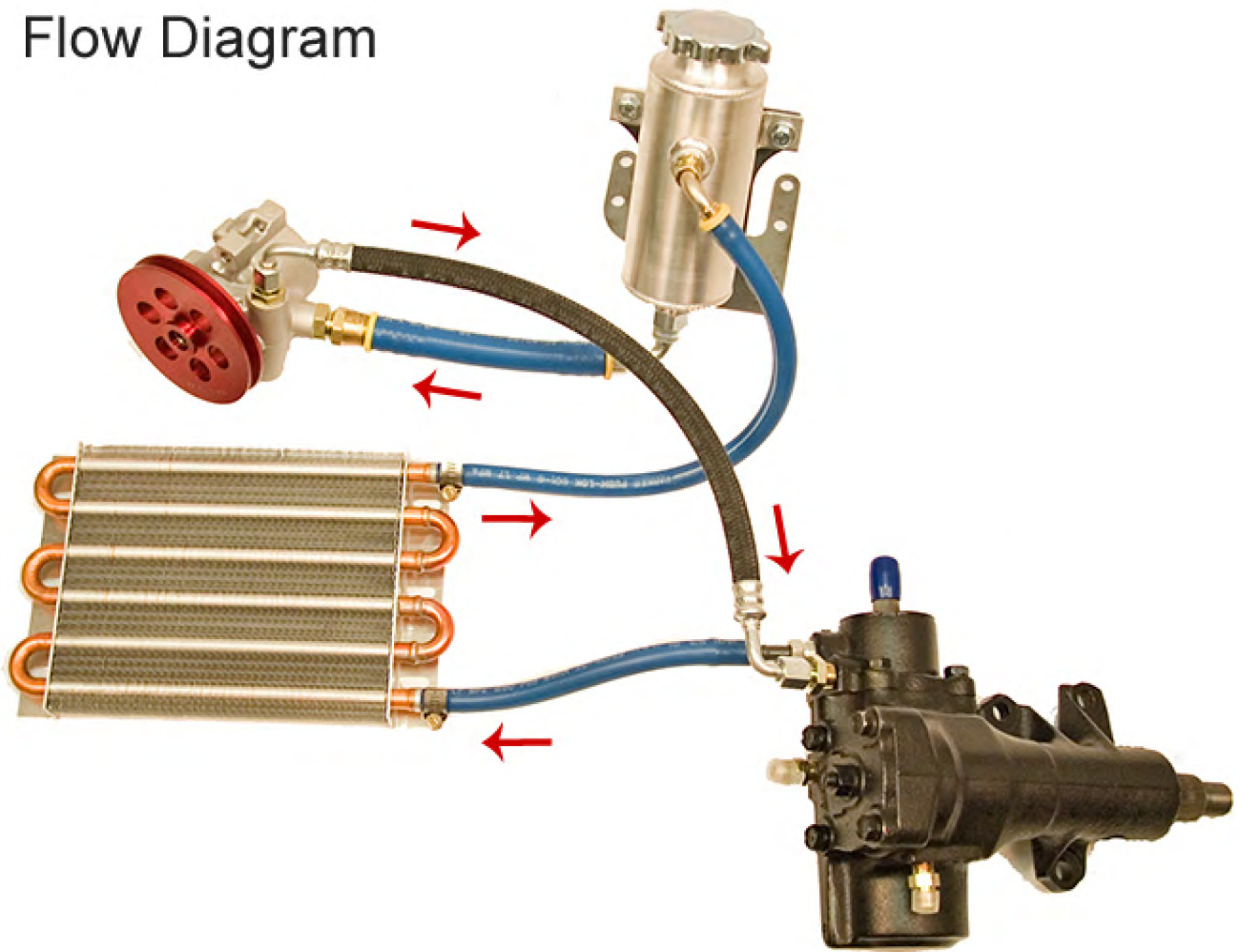
Kit Contents:



Power Steering Pump, High Output	1.0
Power Steering Pulley	1.0
Power Steering Hose, Lower Pressure, 3/8"	1.0
Power Steering Hose, Lower Pressure, 5/8"	1.0
Power Steering Hose, Lower Pressure, 3/8"	1.0
Power Steering Hose, High Pressure, 3/8" Crimped	1.0
Power Steering Bracket, Pump	1.0
Bolt, 5/16"-18x3-1/4"	2.0
Nut, Nyloc®, 5/16"-18	2.0
Nut, Top Lock, 3/8"-16	4.0
Power Steering Reservoir	1.0
Power Steering Reservoir Bracket, Formed	1.0
Bolt, 3/8"-16x3/4", Gr 5	2.0
Washer, Flat 3/8"	2.0
Power Steering Cooler	1.0
Fitting, Barbed, #10 Straight	1.0
Power Steering Belt, 9430	1.0
Hose Clamp, 3/8" Diameter	3.0
Fitting, Power Steering Box, M16-1.5 High Pressure	1.0
Kit Instructions	1.0

If you have questions about installing your Rock AssaultTM Steering Pump, please call us at 559-252-4950.

Flow Diagram



Step 1

The power steering and reservoir brackets should be painted. You can choose any color you like.

Step 2

Remove the stock power steering reservoir, pump, belt and hoses. Install new pump into pump bracket.



Bolt the new pump and bracket to the stock idler pulley using the provided hardware. Install the new fan belt provided with the kit.

Note: It will be necessary to tighten the fan belt after about 100 miles.



Step 4

Install the reservoir and bracket in the stock location. The reservoir bracket should line-up with at least 3 holes on the inner fender well on the 1984-1995 4cyl Pick up and 4Runner 4wd applications.



Step 5

The cooler needs to be mounted which can be done in two different ways. The cooler can be mounted with the ties going through the radiator using the parts provided in the kit or create a frame in front of the radiator, then bolt the cooler to the frame work using the tabs mounted on the back of the cooler.

Step 7

Fill the power system with power steering fluid. When filling the reservoir, do not fill to the top, allow about 1/2" for fluid expansion due to heat. It will take some time to fully bleed the system the first time.

With the vehicle on jack stands and tires completely off the ground, engine not running, turn steering wheel from lock to lock several times and then refill the power steering reservoir with fluid. Note, this is done so that the power steering pump does not get started dry, which can cause damage to the pump.

Now you're ready to start the engine and turn the steering wheel from lock to lock, we recommend that you run the motor for about 5 minutes at a time during the bleeding. Allow the oil to set until all the bubbles have separated out of the oil, and then run the motor again for 5 minutes. Repeat this procedure until the oil runs without foam or bubbles.



Step 6

Install the provided high pressure adapter fitting into the steering box. The stock low pressure fitting will be reused. Now connect the lines as shown in the flow photo. The black line is the high pressure hose. The blue lines are low pressure return lines. *Note* that the larger tube is used to connect the reservoir to the pump inlet. **Do not** use smaller 3/8" hose in this location as it will interfere with sufficient fluid.



These instructions are designed as a general installation guide. Installation of many Trail-Gear Products require specialized skills such as metal fabrication, welding and mechanical trouble shooting. If you have any questions or are unsure about how to proceed, please contact our shop at 559-252-4950 or seek help from a competent fabricator. Using fabrication tools such as welders, torches and grinders can cause serious bodily harm and death. Please operate equipment carefully and observe proper safety procedures.

Rock crawling and off-road driving are inherently dangerous activities. Some modifications will adversely affect the on-road handling characteristics of your vehicle. All products sold by Trail-Gear Inc are sold for off road use only. Any other use or application is the responsibility of the purchaser and/or user. Some modifications and installation of certain aftermarket parts may under certain circumstances void your original dealer warranty. Modification of your vehicle may create dangerous conditions, which could cause roll-overs resulting in serious bodily injury or death. Buyers and users of these products hereby expressly assume all risks associated with any such modifications and use.