



Part Number

623-901, 623-902,

623-903

Application: Corvette 1963-1967, 1968-1982



Search: **Steering System**
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Small Block Power Steering Conversion Kit



Tools Needed

Part Includes

- | | |
|---------------------------|-----------------------|
| 1 - Power Steering Pump | 1 - Quart of PS fluid |
| 1 - Power Steering Pulley | 1 - Fastener kit |
| 1 - Control Valve | 1 - Hose Set |
| 1 - Draglink | 1 - Pump Cap |
| 1 - Pitman Arm | |
| 1 - Pump bracket set | |
| 1 - Frame Bracket | |

STEP 1.

Raise vehicle and support it on stands so that front wheels can be turned fully from left to right.

STEP 2.

Disconnect the two hydraulic hoses from the ends of the PSCV. Allow fluid to drain into a container. Make sure to note the location of the hose so that you install them back in the correct location (very important). Remember, the hoses enter the valve at a slight angle so that ports will not be cross-threaded when the hoses are re-installed.

STEP 3.

Disconnect the two remaining hydraulic hoses from the PSCV.

STEP 4.

Remove the valve clamp cap screw at the relay rod.

STEP 5.

Remove pitman arm nut and separate pitman arm from tapered stud valve. A "pickle fork" is recommended for this operation.

STEP 6.

Unscrew valve body from relay rod.

STEP 7.

Put PSCV back on in the reverse order. Torque pitman arm nut to 45 ft. lbs. Torque valve adapter clamp to 20 ft. lbs.

STEP 8.

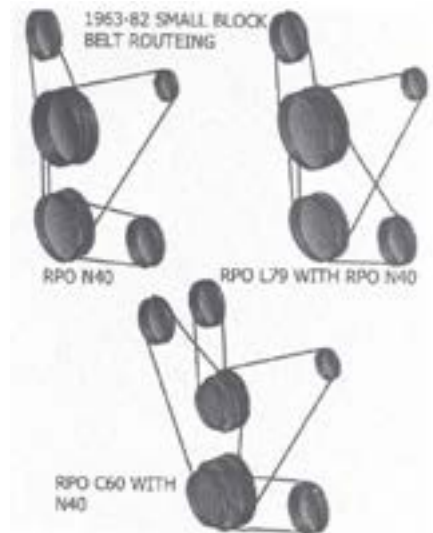
Valve is pre-greased at factory. Do not grease.

STEP 9.

Fill system with new power steering fluid.

STEP 10.

Check for leaks and repair if needed.



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Description (cont.)

STEP 11.

Change all four hoses.

STEP 12.

With power steering reservoir full, start engine for a few seconds, then shut it off. Refill the pump reservoir. Do not put your arm or hand inside the steering wheel before PSCV is properly adjusted.

STEP 13.

Repeat Step 12 until pump reservoir remains full and constant.

STEP 14.

If centering is needed, remove metal cap on end of PSCV and adjust centering nut while engine is running at 1500 RPM. Wheels will turn left or right as nut is adjusted. Once wheels are both straight, replace cap. Metal cap is located on the end of the PSCV below the 2 power steering hoses that loop over one another.

STEP 15.

Turn steering wheel full left and then full right (lock to lock) and for a few seconds (this bleeds the system). Repeat if needed.

STEP 16.

Refill pump reservoir if needed.

CAUTION: DO NOT PUT HANDS OR ARM INSIDE WHEEL UNTIL PSCV IS PROPERLY ADJUSTED. WHEEL MAY TURN TO THE LEFT OR RIGHT BY ITSELF. IF THIS HAPPENS, ADJUST THE PSCV.

STEP 17.

Check drive belts and re-adjust tension if needed. Always replace frayed or glazed belts at this time. Belt will squeal if it is slipping.

STEP 18.

Make sure the hydraulic hoses do not twist or interfere with the adjoining hoses or adjacent chassis parts.

