

Balancing the Control Valve

1. Install the 1963-1982 Corvette power steering valve into the Corvette leaving the dust cap off. Connect all hoses and fill the pump reservoir with oil. Do not connect the piston rod to the frame bracket. If the Corvette is already in operation, it will be necessary to detach the piston rod from the frame bracket.

2. With the Corvette's front end off the ground, start the engine. One of the following two conditions will exist:

A.) If the piston rod remains retracted, turn the adjusting nut clockwise until the rod begins to move out. Then turn the nut counterclockwise until the rod just begins to move in. Now turn the nut clockwise to exactly one-half the rotation needed to change the direction of the piston rod movement.

B.) If the rod extends upon starting the pump, move the nut counterclockwise until the rod begins to retract then clockwise until the rod begins to move out again. Now position the rod to exactly one-half the rotation needed to change the direction of the piston rod movement.

CAUTION: Do not turn the nut back and forth more than is absolutely necessary to balance the valve.

3. With the power steering valve balanced, it should be possible to move the rod in and out manually.

4. Turn off the engine and connect the cylinder rod to the frame bracket.

5. Re-start the engine. If the front wheels (still off the ground) do not turn in either direction from center, the valve has been properly balance. Correct the valve adjustment if necessary.

6. When the valve is properly adjusted, grease the end of the power steering valve and install the dust cap.

Parts List:

- [1963-1982 Corvette Power Steering Valve \(Remanufactured\)](#)
- [1963-1982 Corvette Power Steering Valve \(New\)](#)
- [1963-1982 Corvette Power Steering Valve Rebuild Kit](#)
- [1963-1982 Corvette Power Steering Valve Ball Stud Rebuild Kit](#)

For further assistance contact the [Zip Corvette](#) technical department at technical@zip-corvette.com



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