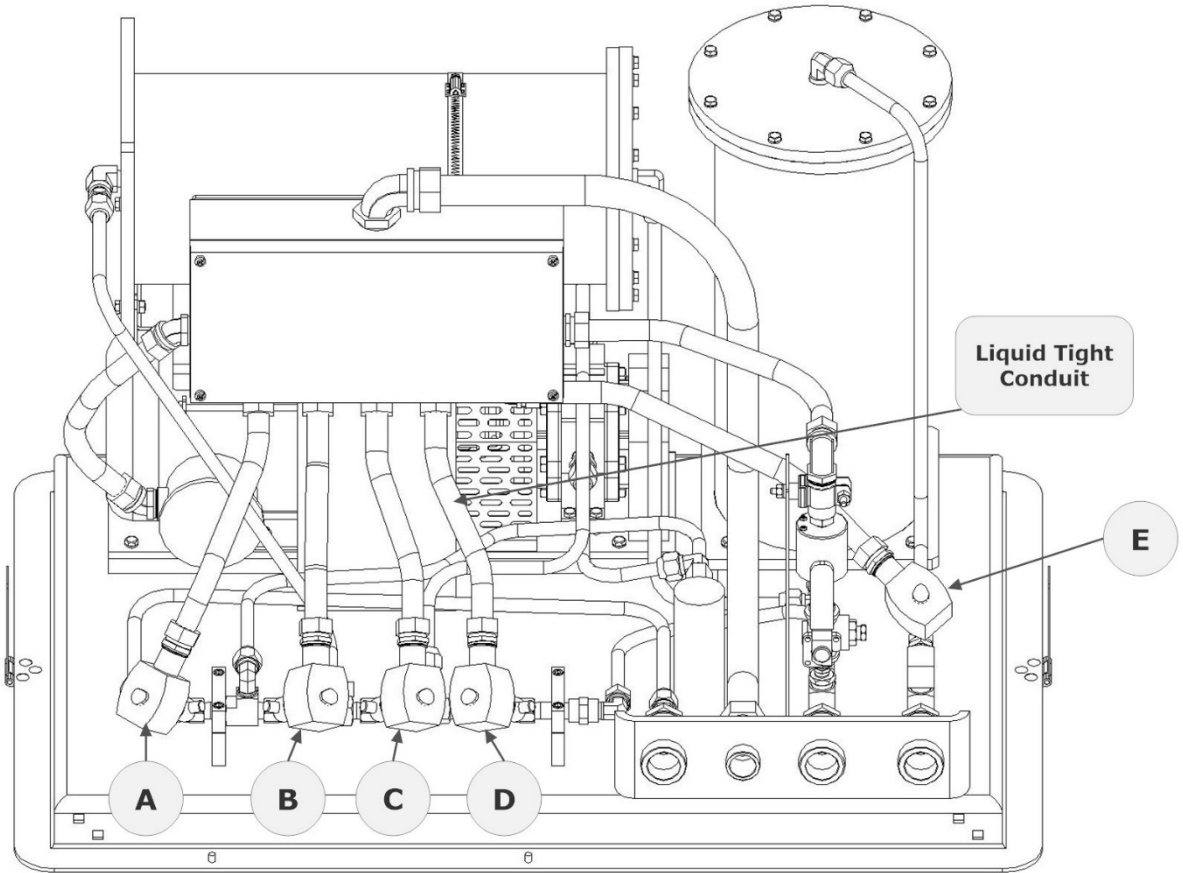




## 9.7 Control Valve Replacement



GM Dual Canister Control Valve Replacement Diagram, 09-20-2019

Figure 9-16: Control Valve Replacement Diagram



### 9.7.1 Removing the Valve Solenoid and Core Assembly

See Figures 9-16 & 9-17.

1. Turn OFF power to the VST Control Panel at the Power Switch located on the front of the VST Control Panel. (The power, ground, and neutral will be completely disconnected from the GREEN MACHINE).
2. Follow lockout & tagout procedures prior to starting work.
3. Unlock the hasps and remove the cover from the GREEN MACHINE.
4. Unlock and close the three ball valves between the GREEN MACHINE and the vent risers.

**NOTE:** The Liquid Tight conduit or fitting do not have to be removed from the solenoid. See Figure 9-16.

5. Remove the red cap from the solenoid that is not working.
6. Remove the nameplate by pushing the solenoid down towards the valve body, then lift and slide the nameplate off.
7. Slide the solenoid off the solenoid base. DO NOT lose the spring washer located below the solenoid on the solenoid base.
8. Using a  $\frac{3}{4}$ " wrench, remove the solenoid base from the valve body, the core assembly with core spring, and the body gasket. Discard the used components.

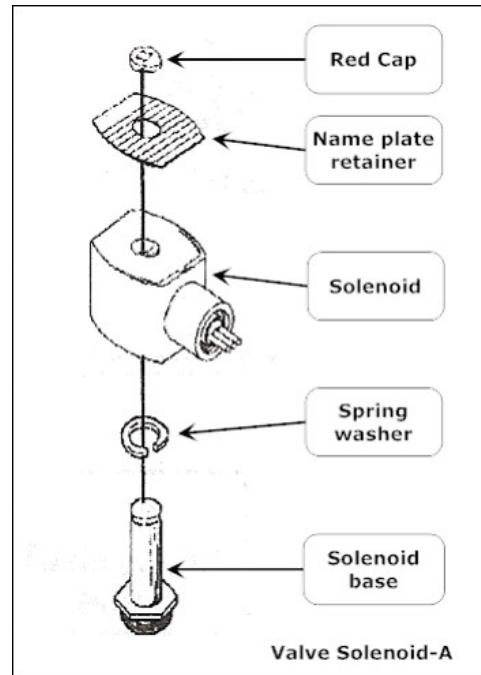


Figure 9-17: Valve Solenoid Assembly



## 9.7.2 Replacing the Valve Solenoid and Core Assembly

See Figure 9-20.

1. Install a new Core Assembly which includes:
  - Solenoid base
  - Core assembly with core spring
  - Body gasket
2. Screw the solenoid base and tighten with a  $\frac{3}{4}$ " wrench until tight. Make sure to install the body gasket with the solenoid base.
3. Place the spring washer on the solenoid base, then slide the solenoid on to the solenoid base.
4. Slide and lock the nameplate on the solenoid.
5. Snap the red cap on the solenoid base.
6. Open the three ball valves between the GREEN MACHINE and the vent risers and lock in the OPEN position.
7. **CAUTION: THREE BALL VALVES BETWEEN THE GREEN MACHINE AND THE VENT RISERS MUST BE OPEN BEFORE APPLYING POWER TO THE VST CONTROL PANEL TO AVOID DAMAGE TO THE GREEN MACHINE INTERNAL EQUIPMENT.**
8. Put the cover on the GREEN MACHINE and lock the hasps.
9. Remove the lock(s) and tags from the lockout & tagout.
10. After the work is completed, turn ON power to the VST Control Panel. The GREEN MACHINE is now operational.

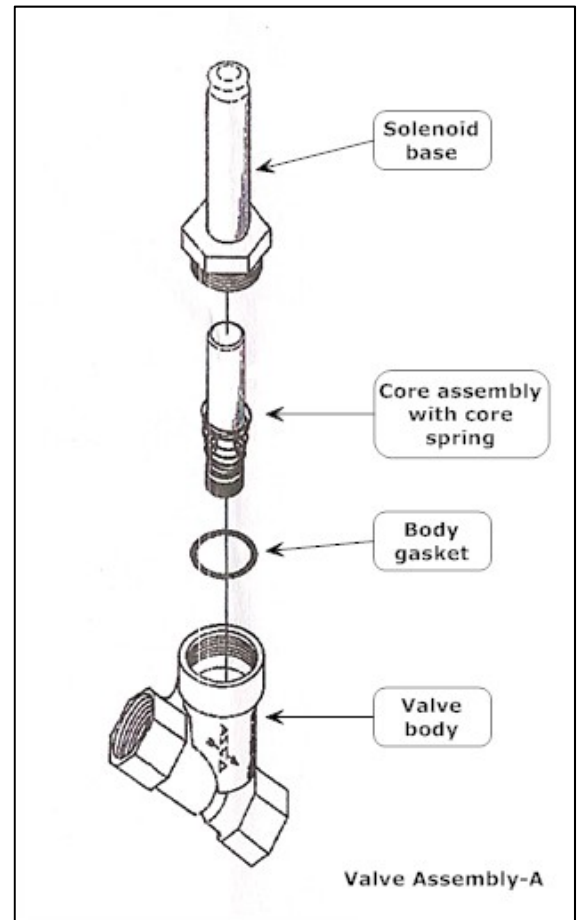


Figure 9-18: Valve Assembly