

9.5 Control Valve Replacement

9.5.1 Removing the Valve Solenoid and Core Assembly

See Figures 9-10 & 9-11.

1. Turn off the GREEN MACHINE breaker in the main electrical distribution panel.
2. Follow lockout & tagout procedures prior to starting work.
3. Unscrew the 8 cover screws and remove the cover from the GREEN MACHINE.
4. Unlock and close the three ball valves between the GREEN MACHINE and the vent risers.
5. Remove the retaining clip 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 1" wrench, remove the solenoid base from the manifold, the core assembly with core spring, and the body gasket. Discard the used components.

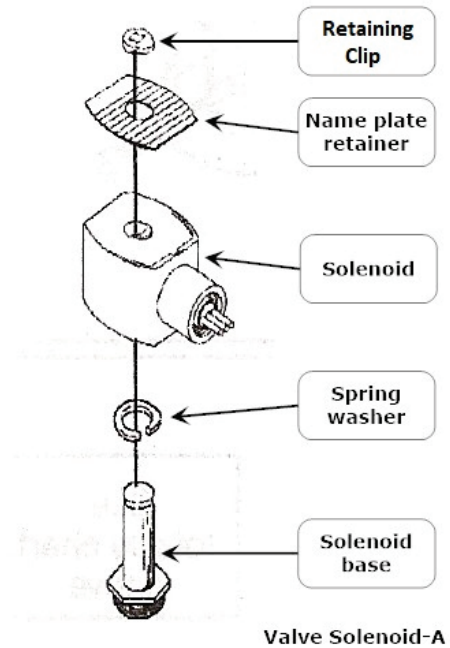


Figure 9-10: Valve Solenoid Assembly

9.5.2 Replacing the Valve Solenoid and Core Assembly

See Figure 9-11.

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 1" 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 retaining clip on the solenoid base.
6. Open the three ball valves between the GREEN MACHINE and the vent risers and lock in the OPEN position.

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.

7. Put the cover on the GREEN MACHINE and screw on the 8 cover screws.
8. Remove the lock(s) and tags from the lockout & tagout.
9. On the Control Panel, tap the home button. The GREEN MACHINE is now operational.

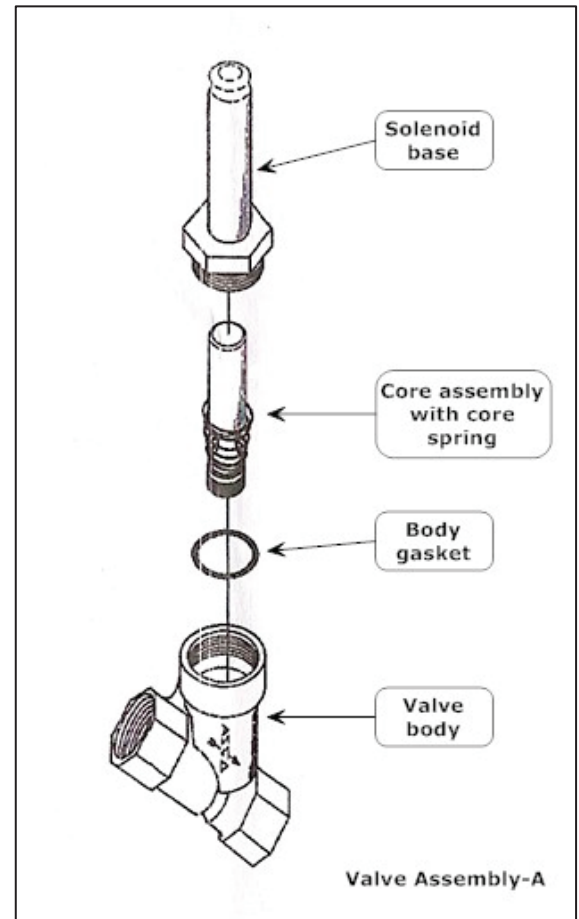


Figure 9-11: Valve Assembly