

Converts Automatic *AirPrime* System From 1 ▶ 2 Locations

Auto AirPrime

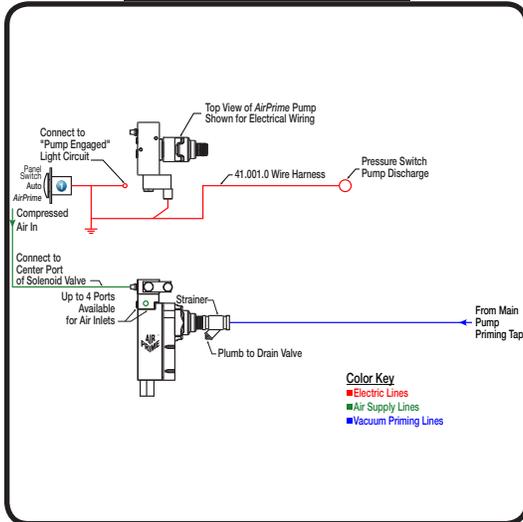


Figure 1

Conversion Kit #27.005.3



Figure 2

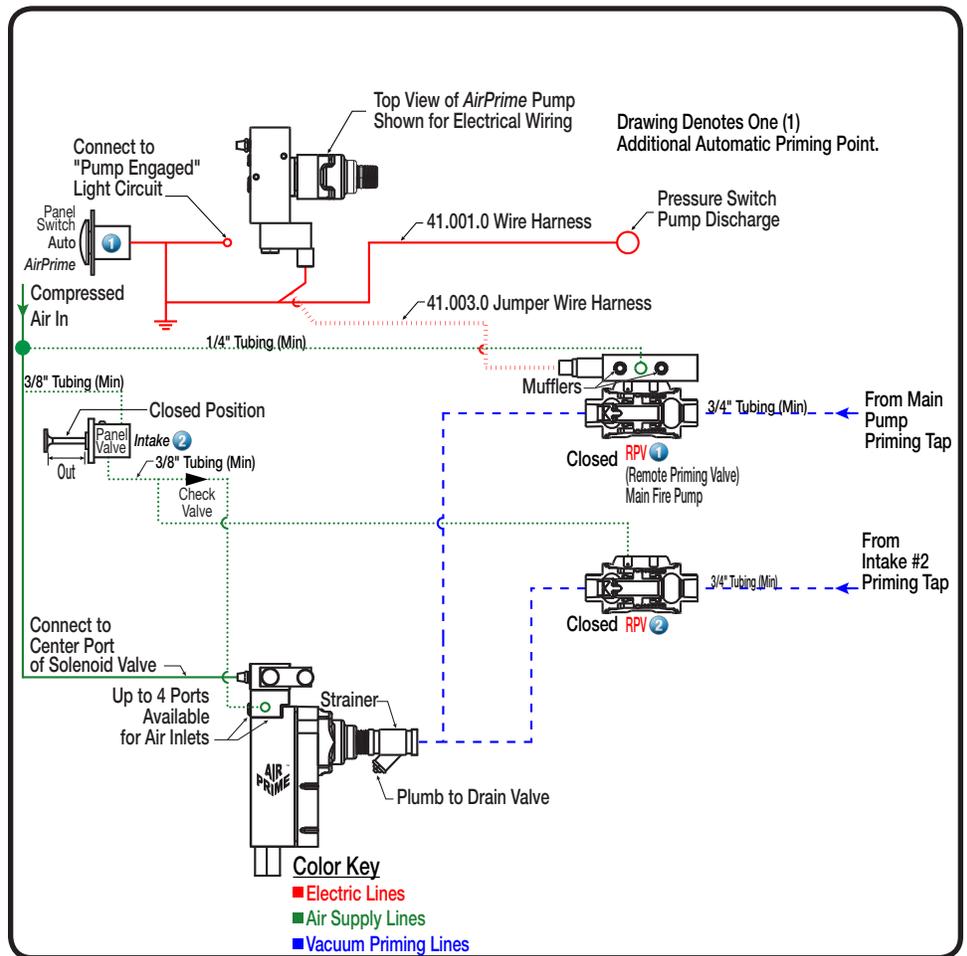


Figure 3 Multi Location Auto AirPrime

Installation Instructions

1. Find a place on the pump panel (Preferably close to the existing PUMP priming rocker switch control) to add the push-button for the second priming location. Use the template cut-out shown in **Figure 4** to mount the new push-button to the panel. Add the appropriate gold label, from those supplied in kit, for the second priming location.
2. Locate the existing Automatic *AirPrime* unit within pump enclosure (See **Figure 1**). Verify that the unit is already mounted ABOVE the highest priming point in suction piping (Including the new second priming location), if not move it higher.
3. Remove the 3/4" line attached to the Wye strainer at the *AirPrime* unit's inlet. Install a 3/4" Tee in its place and plumb the (2) RPVs as shown in the Dashed BLUE lines of **Figure 3** for RPVs marked as #1 and #2. The RPV #1 (supplied with the air solenoid on top) must be connected to the 3/4" line (From the pump suction) just disconnected from the *AirPrime* unit. RPV #2 supplied with the conversion kit does not have a solenoid on top. Use 3/4" inside diameter non-collapsible hose for the Dashed Blue lines for RPV #1 and RPV #2 as shown in **Figure 3**. **NOTE:** Flow direction arrows cast on RPVs must point toward the *AirPrime* unit (See **Figures 5 & 6**). Also note that the RPVs must also be mounted higher than the highest priming point in the suction plumbing.
4. Locate the existing *AirPrime* unit again. Disconnect the air supply line coming from the airbrake supply tank to the center port of the solenoid on top of the primer. Remove the fitting in the solenoid center port and replace it with a Tee. Reconnect the air supply line to one leg of the Tee, and run a new 3/8" tubing line from the second leg of the Tee back to the inlet of the push-button just added to the pump panel for intake #2 as shown in **Figure 3**. Connect the additional air lines and check valve provided as shown in Dotted GREEN lines from the outlet side of the panel push-button for intake #2 to the 1/4" NPT port in the manifold below the solenoid on the *AirPrime* unit and to the RPV #2. Plug any unused ports in the manifold and RPV #2 as required.
5. Locate the jumper wire harness (#41.003.0) provided with the conversion kit. Unplug the connection for the solenoid pigtail (On top of *AirPrime* unit) from the EXISTING wire harness. Plug one end of the double-headed side of the new jumper harness to the main harness and connect the second end to the solenoid pigtail on top of the *AirPrime* unit. Route the jumper harness to the RPV #1 and plug the other (Single end) of the jumper harness into the solenoid valve on top of RPV #1. See **Figure 3**.

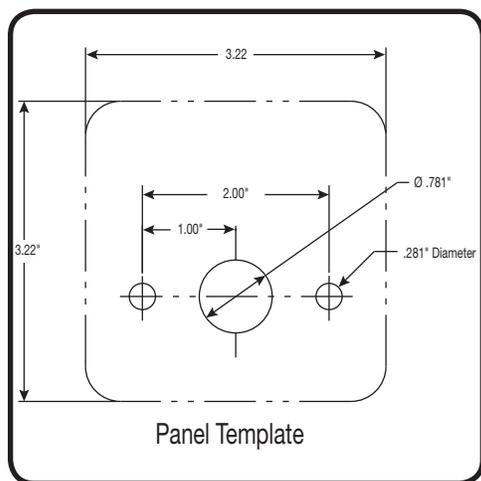


Figure 4



Figure 5



Figure 6