

Converts Single Location Manual to Single Location Automatic

Manual AirPrime

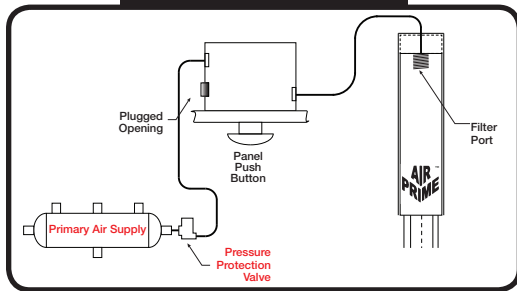


Figure 1



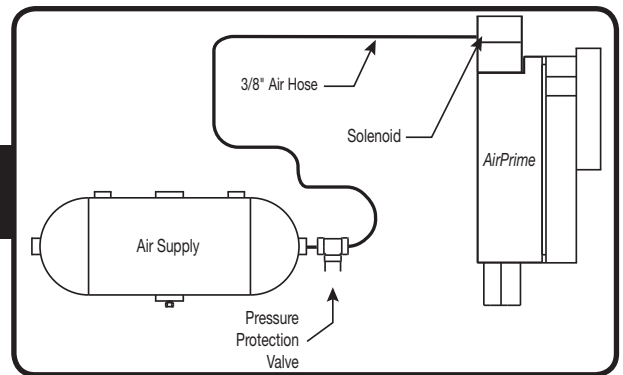
Conversion Kit #27.014.0



Figure 2



Figure 3
Auto AirPrime



Installation Instructions

1. Locate the existing Manual *AirPrime* unit within pump enclosure. It can be found by tracing the existing air line from the primer push-button control on the pump panel to the TOP of the *AirPrime* unit (See **Figure #1**). Verify that the unit is already mounted ABOVE the highest priming point in suction piping, if not move it higher.
2. Remove the existing airline and tubing fitting located on the top of the *AirPrime* unit.
3. Attach the new solenoid and manifold assembly (See **Figure #2**) to the top of the *AirPrime* unit using the screws provided. A blue thread-locker should be used on screws. Be sure to include the o-ring seal provided between the manifold and *AirPrime* unit body. **Note:** This is shipped assembled and must be taken apart prior to installation on your primer. Reassemble using all contained parts. Ensure that the three (3) ports in the solenoid are above the two (2) manifold ports as shown in **Figure #9**.
4. Relocate the 3/8" OD air hose connected to the PPV valve protected air tank from the existing panel push-button to the primer solenoid (See **Figure #3**).
5. Replace the existing push-button with the new rocker switch control provided on pump panel (See **Figure #2**). The existing hole will have to be made rectangular as shown in **Figure #4**.
6. Install the pump pressure switch provided in a 1/4" NPT "Discharge Pressure" opening on the top of the fire pump.
7. Install the pump pressure switch in a vertical orientation and in a position that allows for proper draining (See **Figure #5**).
8. Install the Automatic *AirPrime* wiring harness as follows: (See Page 2 for **Figures 6, 7, 8**).
 - 8a Gray 5-prong plug to rocker switch control in pump panel bezel, and connect 6" pigtail to wiring harness (gray plug).
 - 8b White wire to "OK TO PUMP" light circuit or to fire pump shift control circuit (PTO or split shaft) (1 1/2 feet long) [.5 m].
 - 8c Red (+) and black (-) wires to power supply (1 foot long) (Wiring and 1 amp fuse by installer).
 - 8d Plug-in to *AirPrime* solenoid connection (5 feet of cable) [1.8 m].
 - 8e Plug in to fire pump discharge pressure switch (5 feet of cable) [1.8 m] (See **Figures 5 and 6**).

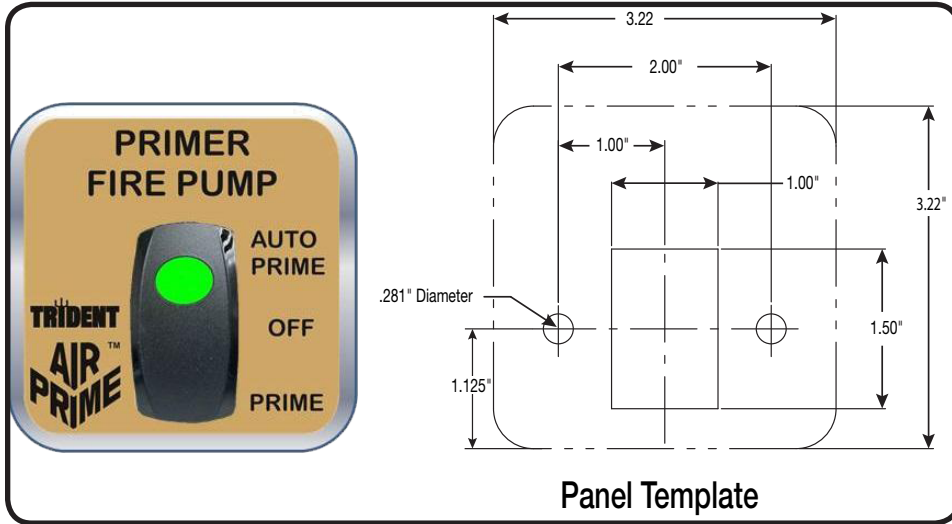


Figure 4



Figure 5



Figure 6

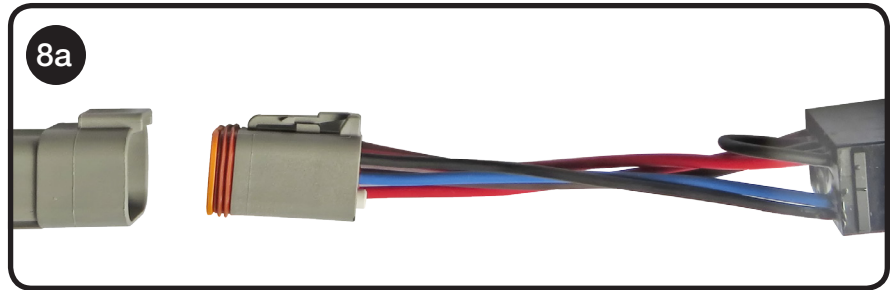


Figure 7

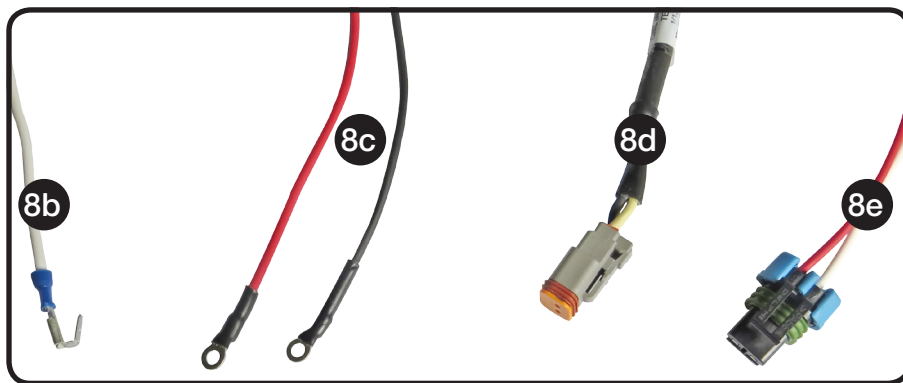


Figure 8

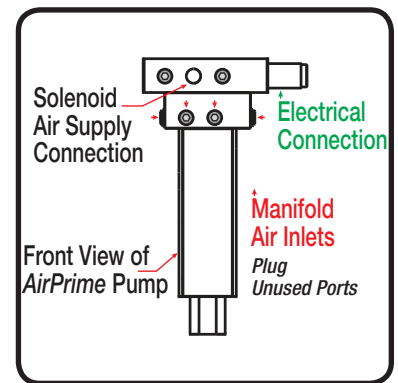


Figure 9