

AirPrime Conversion Kit P/N 27.005.6

Converting a Manual AirPrime to an Auto with Lift Gauge

Existing AirPrime

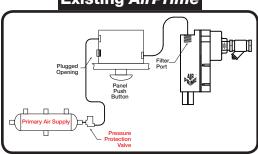




Figure 1







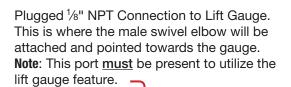


Figure 2



Figure 3

PRIMER



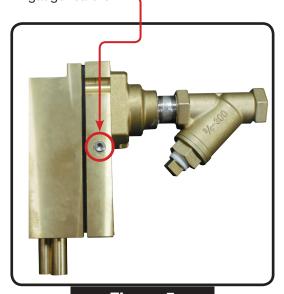
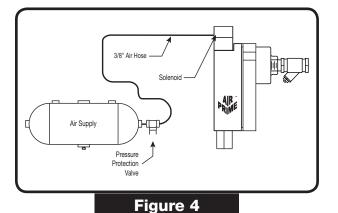


Figure 5



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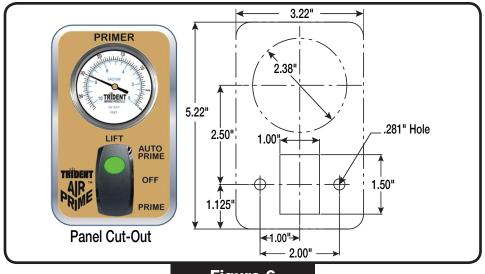
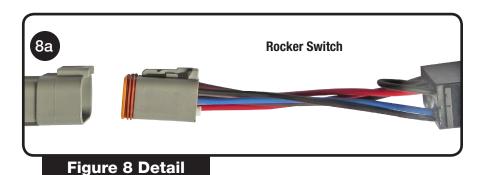
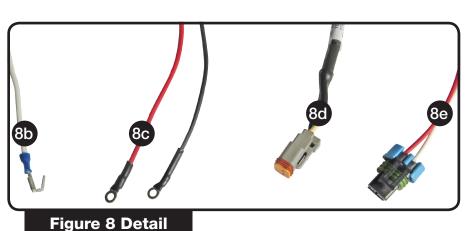


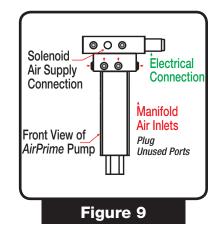


Figure 6





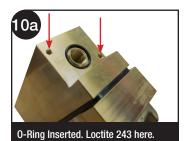




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Installation Instructions

Before proceeding verify the following:

- There is ample space on the panel for the new control and gauge assembly. Refer to Figure #6 for space requirements.
- Ensure that the ½" NPT connection exists on the existing primer body to provide a connection to the gauge. Refer to Figure #5.
- Locate the existing Manual AirPrime unit within pump enclosure. It can be found by tracing the existing air line from the primer pushbutton 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 the suction piping, if not move it higher.
- 2. Remove the existing airline and tubing connection 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 unit is shipped assembled and must be taken apart prior to installation onto your primer. Reassemble using all of the contained parts in the same order as it was disassembled. Follow **Steps 10a through 10h** above for assembly. Ensure that the three (3) ports in the solenoid are in the same orientation and placed above the two (2) manifold ports as shown in **Figure #9** and **10h**.
- 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 #4).
- Replace the existing push-button with the new rocker switch and gauge control provided onto the pump panel (See Figure #2). The existing hole on the panel will have to be modified to accept the new control as shown in Figure #3. Refer to Figure #6 for the new dimensions.
- 6. Install the pump pressure switch provided in a ½" NPT "Discharge Pressure" opening on the top of the fire pump. The switch must be installed in a vertical orientation and in a position that allows for proper draining of the switch (See **Figure #7**).
- 7. Install the Automatic AirPrime wiring harness as follows: (See Page 2 for Figure #8).
 - Ga Gray 5-prong plug to rocker switch control in pump panel bezel, and connect 6" pigtail to wiring harness (gray plug).
 - White wire to "OK TO PUMP" light circuit, (Positive + Side) or to fire pump shift control circuit (PTO or split shaft) (1½ feet long) [.5 m].
 - Red (+) and black (-) wires to power supply (1 foot long) (Wiring and 1 amp fuse provided by installer).
 - 80 Plug-in to AirPrime solenoid connection (5 feet of cable) [1.8 m].
 - Plug in to fire pump discharge pressure switch (5 feet of cable) [1.8 m] (See Figures #5 and #6).





Adding a Lift Gauge to an Existing AirPrime Unit



Applies to the following kits:

Kit #	Description
27.005.4	Manual AirPrime Gauge Conversion Kit
27.005.5	Automatic AirPrime Gauge Conversion Kit
27.005.6	Manual to Auto with Gauge Conversion Kit

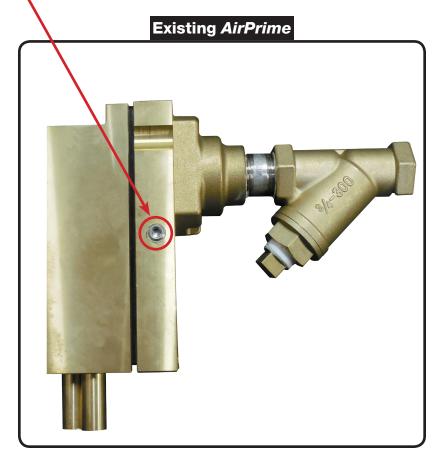
Is it possible to upgrade your AirPrime system to include a Lift Gauge?

Yes... Provided that your primer is equipped with the port pictured below.

Locate your AirPrime unit within your pump enclosure and visually inspect for the 1/8" NPT port sealed with a pipe plug.



1/8" NPT Connection to Lift Gauge.







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