Typical Pumper Truck Install Guide: Monitor & Nozzle

1. A. Tighten Sidewinder EXM monitor to base using Loctite 592 thread sealant or equivalent.
   B. Add a 20A(12VDC)* fuse between RED controller lead and positive power lead.

   NOTE: We recommend using 16 AWG for monitor power and ground. See installation instructions section of the Sidewinder EXM manual (98317000) for length to gauge recommendations.

2. A. Position monitor discharge elbow parallel to ground. Ensure gasket is inside nozzle swivel.
   B. Hand tighten nozzle to monitor using swivel end piece.
   C. Adjust flow by pressing down on locking lever and rotating nozzle to desired flow setting.
   D. Confirm that locking lever is snapped securely into position.
   E. Loosen swivel and reposition nozzle so the locking lever is on the very bottom; 6 o'clock position.
   F. Tighten swivel using a spanner wrench to ensure a secure connection.
   G. Connect nozzle and monitor two-way connectors.

3. Confirm that all connections are tight and all electrical connections have been reconnected. If installing additional components, such as controllers, you may choose to double check the connections after everything has been installed.
4. A. Install valve into plumbing. Torque adapter bolts to spec using torque specs to the right.

   ![Diagram](image1)

   7/32" dia. unless noted

B. Add a 30A (12VDC)* fuse between RED controller lead and positive power lead. *15A (24VDC)

   ![Diagram](image2)

C. Mount components to panel using 10-24 x 1/2" screws. Use Loctite 242 or equivalent.

   ![Diagram](image3)

D. Add a 1A (12VDC)* fuse between red component lead and positive power lead. *0.5A (24VDC)

   ![Diagram](image4)

5. A. Follow mounting templates on page 30 of the instruction manual for hole diameters and dimensions.

   ![Diagram](image5)

B. Drill holes for CAN network and power cables for each components' leads behind each component.

   ![Diagram](image6)

C. Mount components to panel using 10-24 x 1/2" screws. Use Loctite 242 or equivalent.

   ![Diagram](image7)

D. Add a 1A (12VDC)* fuse between red component lead and positive power lead. *0.5A (24VDC)

   ![Diagram](image8)

6. A. Connect entire CAN network together using 18-22 AWG. Ensure every component connected to the CAN network is connected in between 2 end components that have CAN termination. Please refer to the BLUE, GREEN, and BLACK lines as the CAN wires below.

   ![Diagram](image9)

   Before continuing, please refer to the EXM Configuration Tool Manual (98510000) to configure the EXM system.
NOTE: You will need to calibrate the valve before use. While you are NOT in setup mode, press and hold <Preset> and <Close> for approximately 5 seconds. The valve will automatically start to calibrate itself.

The following steps are optional (O).

Pressing the <Osc> button will cycle through the monitor speed options:

LEDs - Ver / Hor
0 - Fast / Fast
1 - Slow / Fast
2 - Fast / Slow
3 - Slow / Slow

Move monitor to desired position, then press <Fog> and <Osc> at the same time to store a stow position.

Stow position must be within allowed limits of travel.

Press and hold <Stream> and <Fog> until yellow status LED on controller and blue status LED on monitor box turn on.

From a Joystick Controller, press and hold <Aux> and <Preset> until LEDs turn on.

Maximum Travel limits will give approx 175° of travel from the calibrated horizontal forward position in either direction.

Move monitor to the left limit and press <Close>. Move monitor to the right limit and press <Open>.

Lower Left: Move to top/right corner of the lower left zone, hold <Preset>, press <Close>, and release both.

Lower Right: Move to top/left corner of the lower right zone, hold <Preset>, press, <Open>, and release both.

This step is required (R).

Aim monitor at center forward “zero” position. Hold <Preset>, then press and hold <Left> or <Right> until status LED on monitor blinks & returns to solid. Takes about a second.

Press and hold <Stream> and <Fog> on the panel mount and <Aux> and <Preset> on the joystick until the status LEDs turn off.
**Typical Pumper Truck Install Guide: Button Press Logic**

### Button Press Logic: Panel Mount & Handheld

**To Stow**
Hold <Fog> and <Osc> until monitor begins to stow.

**To Oscillate**
Press the <Osc> button at both extremities of the desired oscillation pattern.

**NOTE:** You can manually control nozzle position while in a single axis oscillation. Example: Up and Down will allow you to manually control the vertical axis while in a horizontal oscillation. Any direction in a two axis oscillation will stop the oscillation.

**Left, Right, Up, Down**
These function normally

**Fog & Straight Stream**
These function normally

**Valve Open & Close**
These function normally

**Valve Preset**
Opens or closes valve to a predetermined position

**To Change Valve Preset**
Open or close the valve to the desired position. Press and hold the <Preset> button until the preset light blinks (approx 10 seconds).

**Valve Auto Travel**
To auto travel OPEN, hold the <Open> button, then press <Close>, and release both. The valve should fully open automatically. To CLOSE, hold the <Close> button, then press <Open>, and release both.