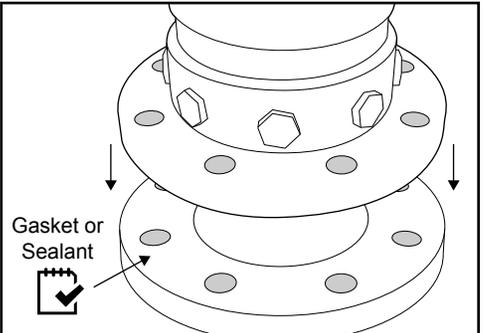
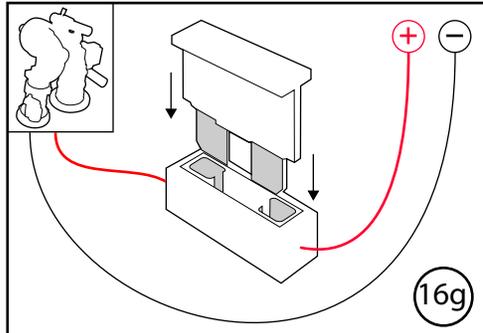


1. A. Install monitor to flange using 5/8"-11 UNC Grade 5 bolts and nuts. Tighten uniformly to 70ft/lb using Loctite 242 or equivalent.



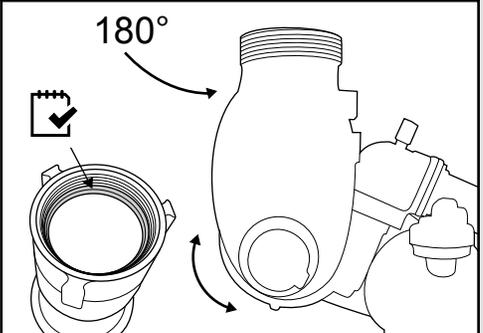
B. Add a 20A(12VDC)* fuse between RED controller lead and positive power lead. Use 40A fuse if nozzle with foam expansion tube is utilized. *10A(24VDC)



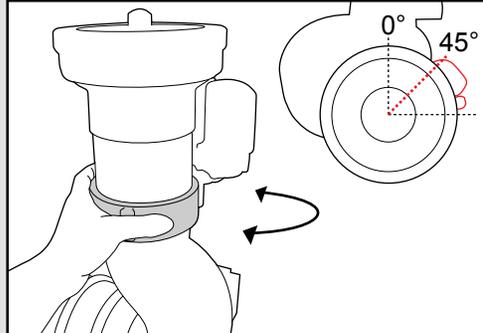
NOTE: We recommend using 14 AWG for monitor power and ground (12 AWG if using nozzle with foam expansion tube). See installation instructions section of the Scorpion EXM manual (98342000) for length to gauge recommendations.

MONITOR

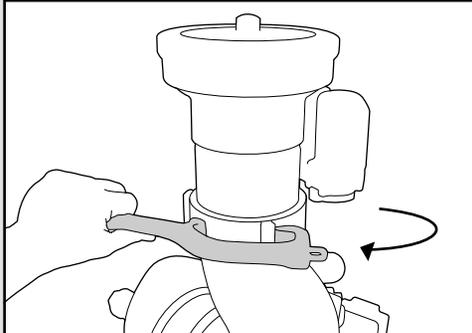
2. A. Position monitor discharge elbow vertical. Ensure gasket is inside nozzle swivel before installing.



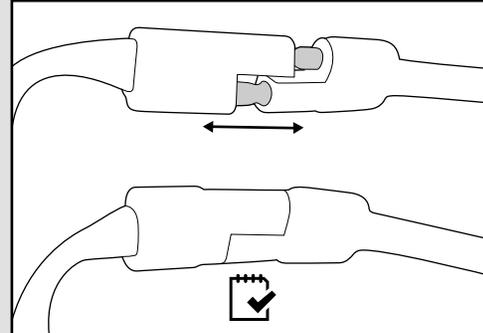
B. Hand tighten nozzle to monitor using swivel end piece. Position actuator assembly about 45° around the swivel.



C. Tighten swivel using a spanner wrench to ensure a secure connection.



D. Connect nozzle and monitor two-way connectors.

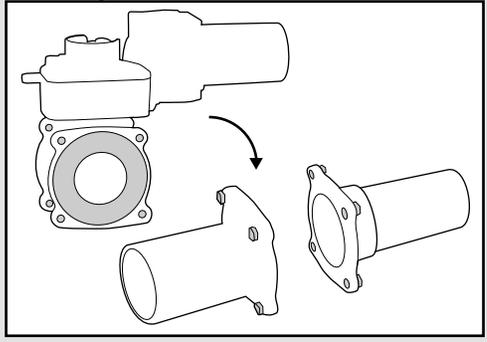


NOZZLE

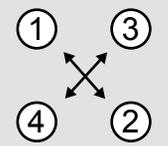
3. Confirm that all connections are tight and all electrical connections have been reconnected. If installing additional components, such as controllers, you may choose to double check the connections after everything has been installed.

 - Panel Mount Controller  - Handheld Controller / Docking Station

4. A. Install valve into plumbing. Torque adapter bolts to spec using torque specs to the right.

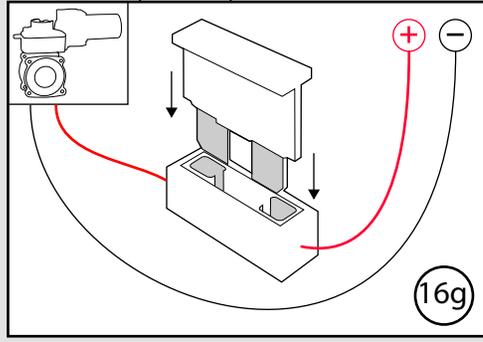


Tighten Adapter Bolts using a cross pattern

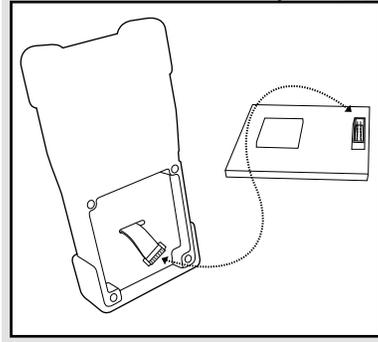


EB40:
60-70 ft-lbs

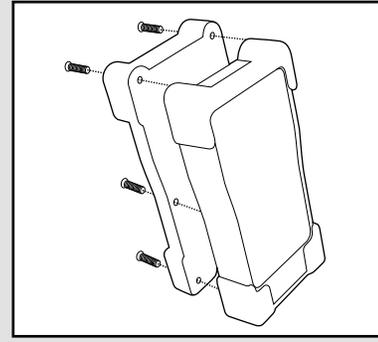
B. Add a 30A(12VDC)* fuse between RED controller lead and positive power lead. *15A(24VDC)



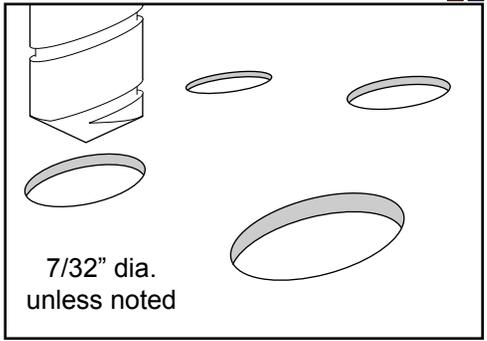
RF Installation - The RF Module will be upside down when installed correctly.



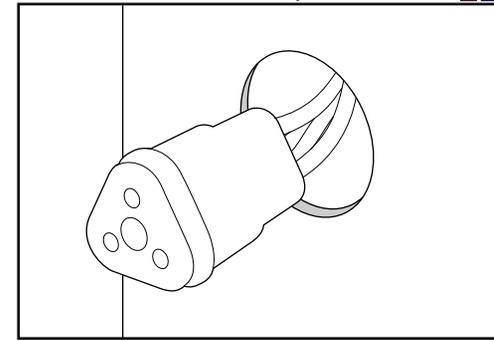
Connect power and attach battery pack to Handheld controller.



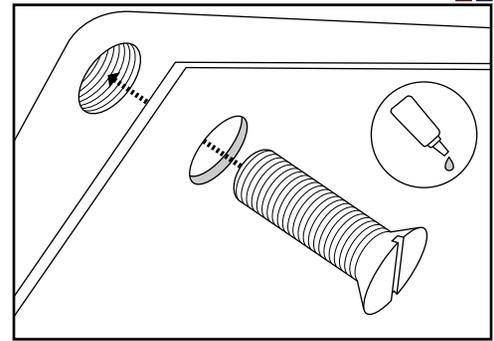
5. A. Follow mounting templates on page 30 of the instruction manual for hole diameters and dimensions.



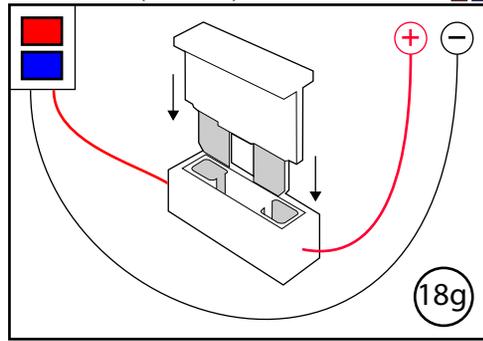
B. Drill holes for CAN network and power cables for each components' leads behind each component.



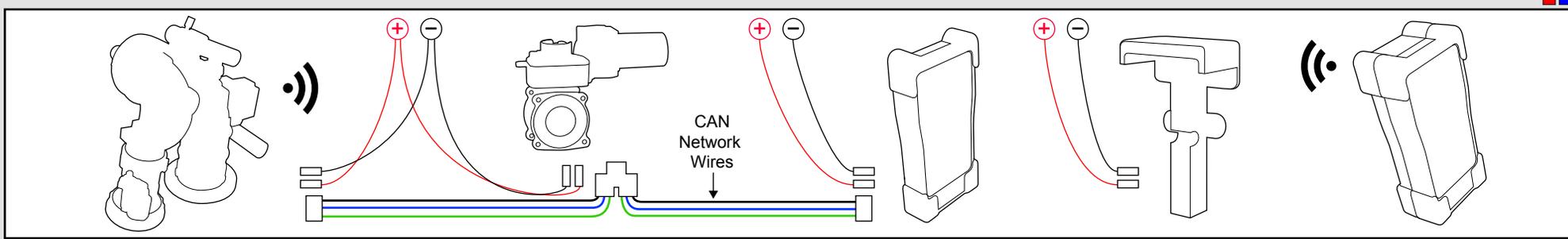
C. Mount components to panel using 10-24 x 1/2" screws. Use Loctite 242 or equivalent.



D. Add a 1A (12VDC)* fuse between red component lead and positive power lead. *.5A (24VDC)



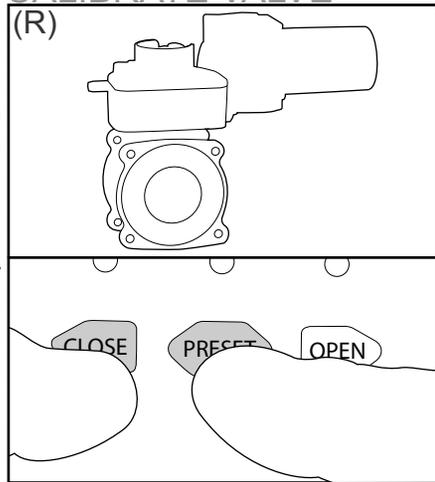
6. A. Connect entire CAN network together using 18-22 AWG. Ensure every component connected to the CAN network is connected in between 2 end components that have CAN termination. Please refer to the BLUE, GREEN, and BLACK lines as the CAN wires below.



Before continuing, please refer to the EXM Configuration Tool Manual (98510000) to configure the EXM system.

CALIBRATE VALVE

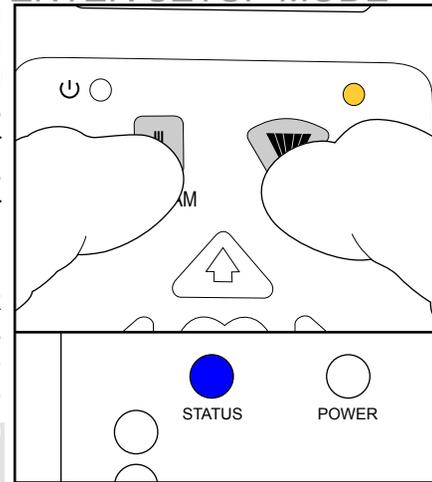
NOTE: You will need to calibrate the valve before use. While you are **NOT** in setup mode, press and hold <Preset> and <Close> for approximately 5 seconds. The valve will automatically start to calibrate itself.



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.

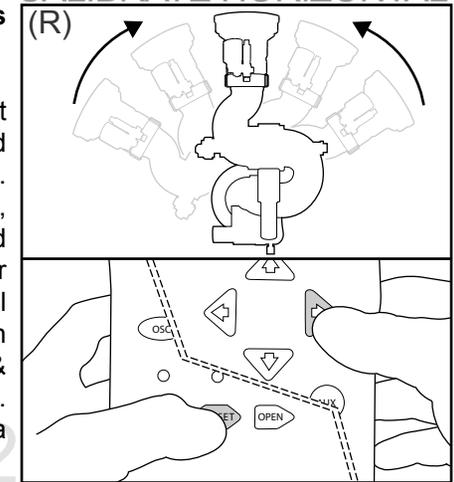
ENTER SETUP MODE



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.

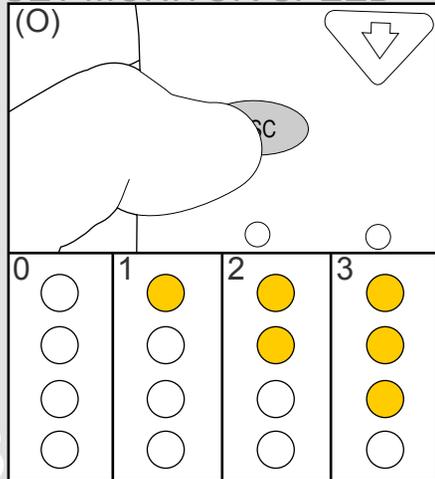
CALIBRATE HORIZONTAL



SET MONITOR SPEED

The following steps are optional (O).

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

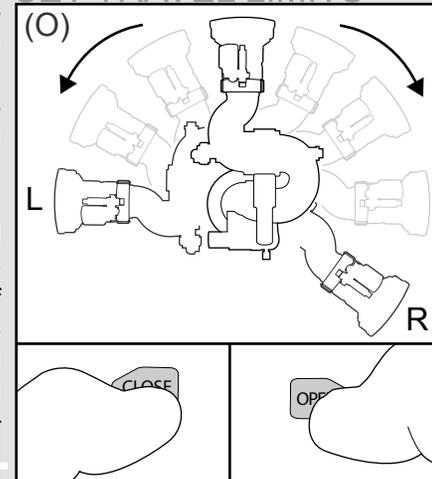


LEDs - Ver / Hor
 0 - Fast / Fast
 1 - Slow / Fast
 2 - Fast / Slow
 3 - Slow / Slow

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

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

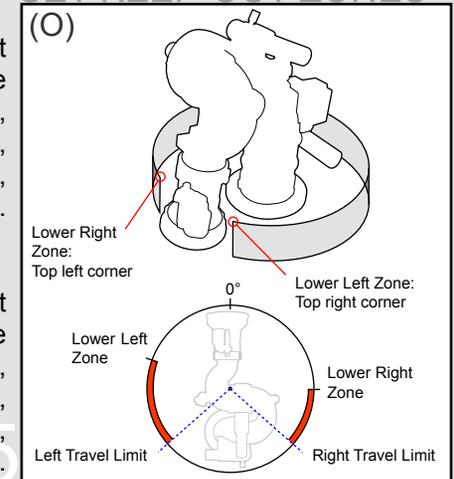
SET TRAVEL LIMITS



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.

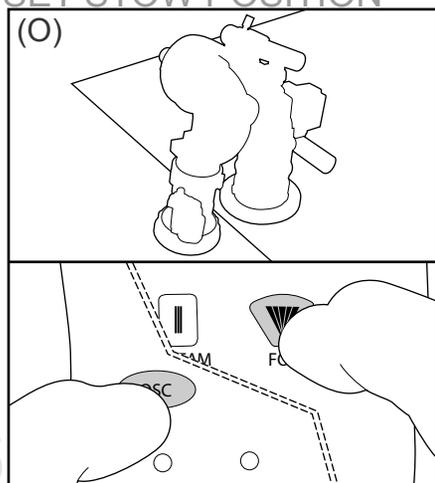
SET KEEP-OUT ZONES



SET STOW POSITION

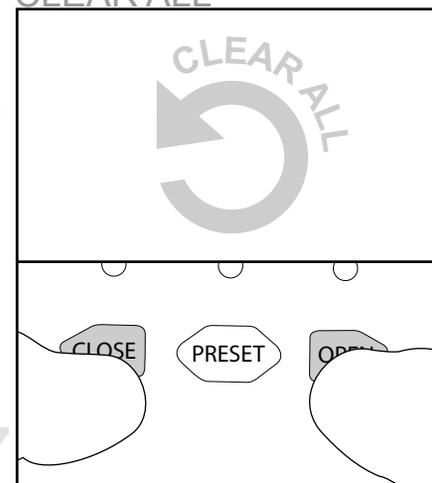
Move monitor to desired position, then press <Fog> and <Osc> at the same time to store a stow position.

Stow position must be within allowed limits of travel.



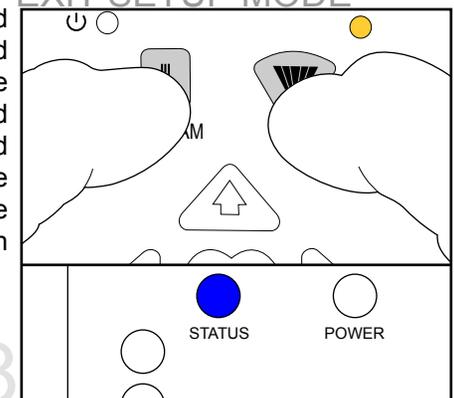
Pressing <Open> and <Close> at the same time will clear travel limits, keep out areas, and the stow position.

CLEAR ALL



Press and hold <Stream> and <Fog> on the panel mount and <Aux> and <Preset> on the joystick until the status LEDs turn off.

EXIT SETUP MODE



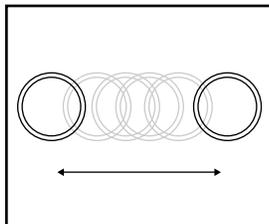
Button Press Logic: Panel Mount & Handheld

To Stow

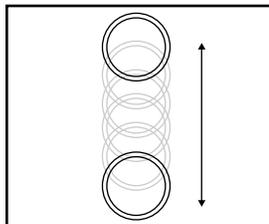
Hold <Fog> and <Osc> until monitor begins to stow.

To Oscillate

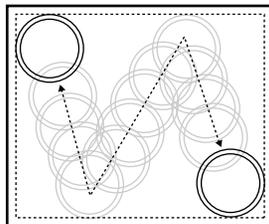
Press the <Osc> button at both extremities of the desired oscillation pattern.



Horizontally



Vertically



Two Axis Oscillation

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

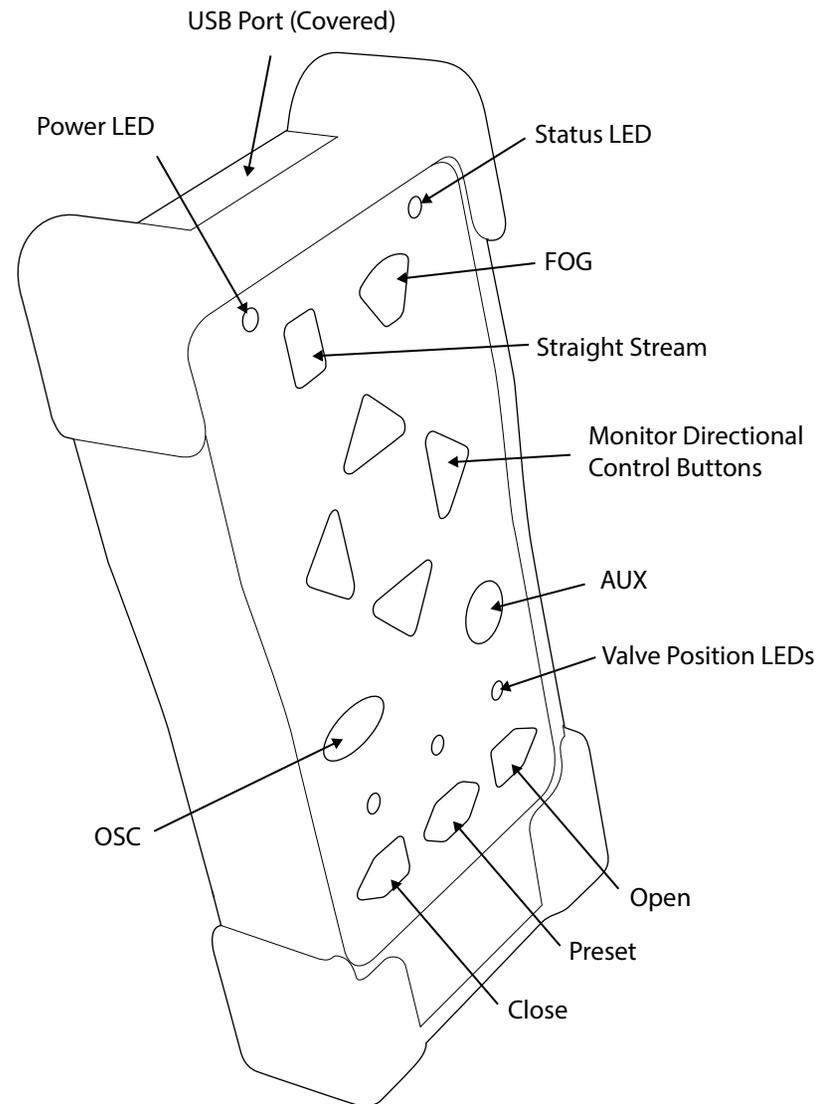
To Change Valve Preset

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.

Panel Mount Layout:



BUTTON LOGIC

PANEL MOUNT