SCORPION EXM[™] Quick Install Guide

Step 1. Mount Monitor onto base

MOUNT MONITOR - FLANGE



Install monitor to flange using 5/8"-11 UNC Grade 5 bolts and nuts. Tighten uniformly (20 lb increments) to 60-70ft/lb using Loctite 242 or equivalent.

SUPPLY POWER - FUSE



Install a 20A fuse (12VDC) into the positive power lead; 10A fuse for 24VDC. Use a 40A fuse if nozzle with foam expansion tube is utilized.

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.

Step 2. Attach Nozzle to Monitor



Position monitor discharge elbow vertically (straight up). Ensure gasket is inside nozzle swivel before installing.

Step 3. Confirm Connections

POSITION NOZZLE ACTUATOR

Hand tighten nozzle to monitor using swivel. Position actuator assembly about 45° as shown above.

TIGHTEN NOZZLE



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

CONNECT POWER



Connect nozzle & monitor two-way connectors.

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.

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Connect entire CAN network together using 18-20 AWG. Ensure every component connected to the CAN network is connected in between the two (2) end components that have CAN termination. Please refer to the BLUE, GREEN, and BLACK lines as the CAN wires above.

Before continuing, use the EXM Configuration Tool manual P/N 98510000 to configure the EXM system.



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.

Lower Left Zone: Top right corner

Lower Right

Right Travel Limit

Zone

NOTE: (R) This step is required. (O) This step is optional.



MAZZ

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MONITOR MOTOR SPEEDS Pressing the OSC \bigcirc

13

2

(O)

0

button will cycle through the monitor speed options:

LEDs - Vert / Horz 0 - Fast / Fast 1 - Slow / Fast

2 - Fast / Slow 3 - Slow / Slow Lower Right Zone Top left corner

Zone

Left Travel Limit

Lower Left

(O)

KEEP-OUT ZONES

Step 8. Verify

NOTE: Changes made during setup mode won't take effect until you exit setup mode.

Valve Calibration - If the LEDs above the closed & open buttons on an input controller are flashing, the valve has not been calibrated.

Rotational Limits – If Travel Limits haven't been set, you can check the horizontal and vertical rotation limits by moving the monitor until it stops at the maximum allowed rotation. This will be +/-175° for horizontal movement, and 135° for total vertical movement.

Travel Limits – Move the monitor in all directions. The discharge should stop at the set Travel Limits. If it does not stop at the set Travel Limits, and travels all the way to the calibrated Rotational Limits, enter Setup Mode and repeat the Travel Limit steps.

Monitor Motor Speed - Motors come factory set both in fast mode (all yellow LEDs off). If a motor speed setting other than fast/fast is desired, follow step 7.7 Monitor Motor Speeds to change the motor speeds to the desired speed combination.

Keep-Out Zones – Raise discharge above the set Keep-Out point. Rotate discharge above the Keep-Out Zone. Lower discharge down until it stops at set Keep-Out point. Rotate the monitor toward the "Zero" forward position, and try to move discharge down every inch. Once discharge clears Keep-Out point, it should rotate all the way down to the Rotational or set Travel Limit.

Stow Position – While outside of Setup Mode, press and hold the FOG and OSC button to initiate the Stow function. The discharge should move to the set Stow Position. If monitor does not Stow, repeat step 7.9 to set a stow position. (Rotate thumb wheel down for FOG on joystick).

Button Press Logic

