

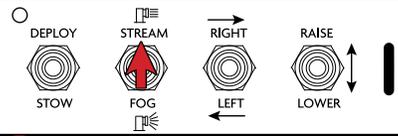
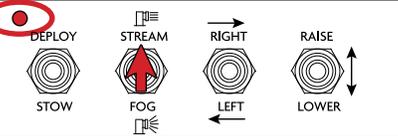


StreamMaster II Programming Guide

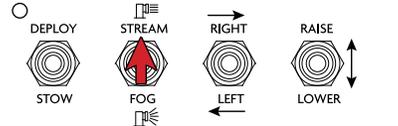
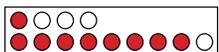
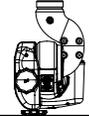
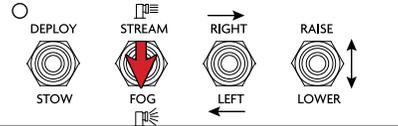
| | |
|------------------------------------|---------|
| Zero Position Sensors | Page 2 |
| Monitor Orientation | Page 3 |
| Set the Soft Limits. | Page 4 |
| Stow/Deploy | Page 5 |
| Obstacle Avoidance. | Page 6 |
| Restore Factory Defaults | Page 7 |
| Electric Riser | Page 8 |
| Ladder Avoidance | Page 9 |
| Blink Codes | Page 10 |
| Error Codes | Page 11 |

StreamMaster II – Zero Position Sensors

Step 1 – Enter the set up menu

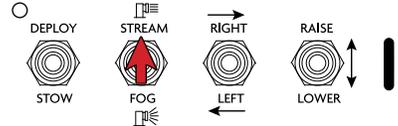
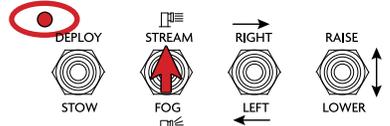
| | |
|--|---|
| <p>A. Turn power off to the monitor</p> |  |
| <p>B. HOLD the STREAM switch and Power On (From any controller)</p> |  |
| <p>C. Continue to hold stream until LED blinks If you have successfully entered the menu you will see a slow steady blink (every 3 seconds)</p> |  |

Step 2 – Zero Position Sensors – (only if have Position Indicator)

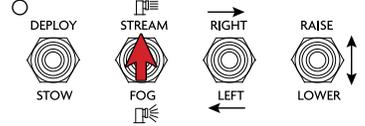
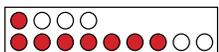
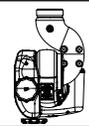
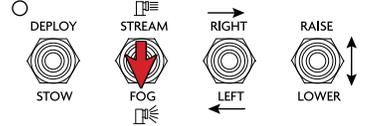
| | |
|--|---|
| <p>A. Press the STREAM switch 6 times</p> |  |
| <p>B. Verify 1-8 Blink Code</p> |  |
| <p>C. Move Monitor to straight out and center</p> |  |
| <p>D. Press Fog to Zero the position sensor</p> |  |
| <p>E. Cycle Power</p> |  |

StreamMaster II – Monitor Orientation

Step 1 – Enter the set up menu

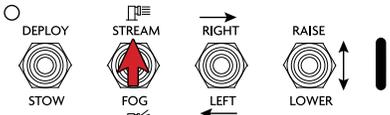
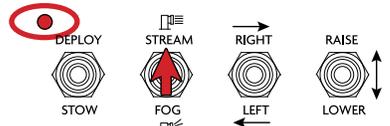
| | |
|--|---|
| A. Turn power off to the monitor |  |
| B. HOLD the STREAM switch and Power On (From any controller) |  |
| C. Continue to hold stream until LED blinks If you have successfully entered the menu you will see a slow steady blink (every 3 seconds) |  |

Step 2 – Monitor Orientation

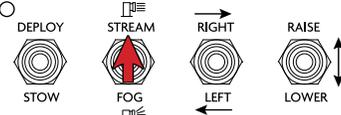
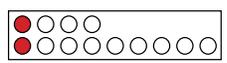
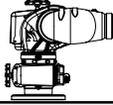
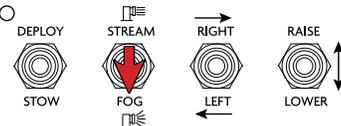
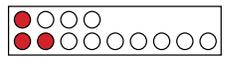
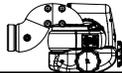
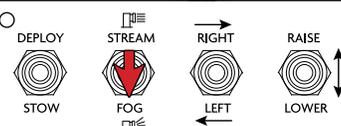
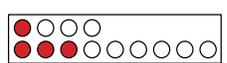
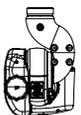
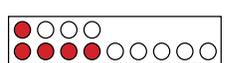
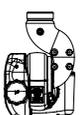
| | |
|---|---|
| A. Press the STREAM switch 5 times |  |
| B. Verify 1-7 Blink Code |  |
| C. Move Monitor up using whatever button that moves it up. Depending on the physical mounting, it could be left, right, or down switches. |  |
| D. Press Fog to orient the monitor |  |
| E. Cycle Power |  |

StreamMaster II – Set Soft Limits

Step 1 – Enter the set up menu

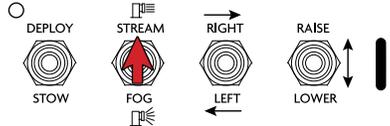
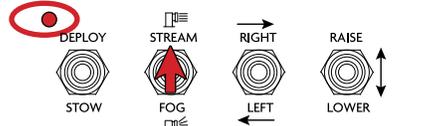
| | |
|--|---|
| <p>A. Turn power off to the monitor</p> |  |
| <p>B. HOLD the STREAM switch and Power On (From any controller)</p> |  |
| <p>C. Continue to hold stream until LED blinks If you have successfully entered the menu you will see a slow steady blink (every 3 seconds)</p> |  |

Step 2 – Set Soft Limits

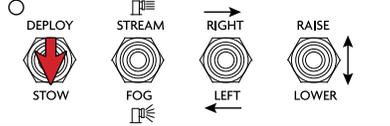
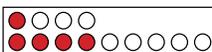
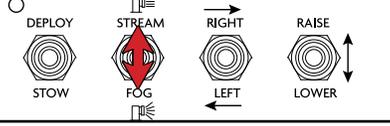
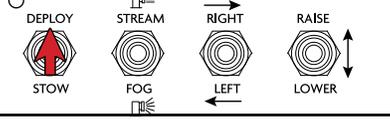
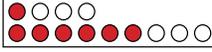
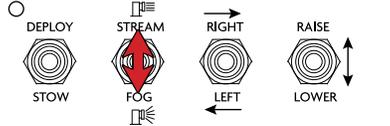
| | |
|--|---|
| <p>A. Press the STREAM switch 1 time</p> |  |
| <p>B. Verify 1-1 Blink Code A. Now setting right soft limit.</p> |  |
| <p>C. Move Monitor to the farthest right point desired A. If against the right hard stop reverse a few degrees.</p> |  |
| <p>D. Press Fog to save the right soft limit.</p> |  |
| <p>E. Verify 1-2 Blink Code A. Now setting left soft limit.</p> |  |
| <p>F. Move Monitor to the farthest left point desired A. If against the left hard stop reverse a few degrees.</p> |  |
| <p>G. Press Fog to save the left soft limit.</p> |  |
| <p>H. Verify 1-3 Blink Code A. Now setting up soft limit.</p> |  |
| <p>I. Move Monitor to the highest point desired A. If against the up hard stop reverse a few degrees.</p> |  |
| <p>J. Press Fog to save the up soft limit.</p> |  |
| <p>K. Verify 1-4 Blink Code A. Now setting down soft limit.</p> |  |
| <p>L. Move Monitor to the lowest point desired A. If against the up hard stop reverse a few degrees.</p> |  |
| <p>M. Press Fog to save the up soft limit.</p> |  |
| <p>N. Cycle Power</p> |  |

StreamMaster II – Setting Stow and Deploy

Step 1 – Enter the set up menu

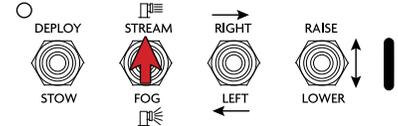
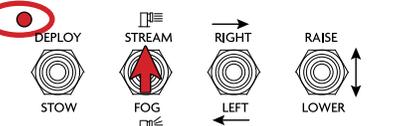
| | |
|--|---|
| A. Turn power off to the monitor |  |
| B. HOLD the STREAM switch and Power On (From any controller) |  |
| C. Continue to hold stream until LED blinks If you have successfully entered the menu you will see a slow steady blink (every 3 seconds) |  |

Step 2 – Set Stow

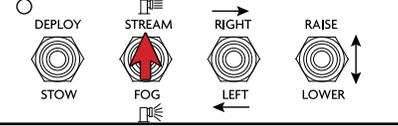
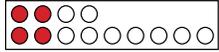
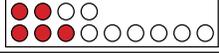
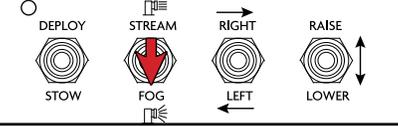
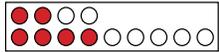
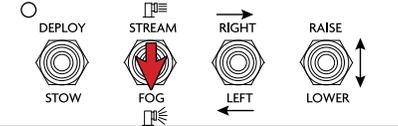
| | |
|--|---|
| A. Press the Stow switch |  |
| B. Verify 1-5 Blink Code |  |
| C. Move Monitor to desired Stow position |  |
| D. Press Fog to save stow position with nozzle traveling to full fog pattern during stow or Press Stream to save stow position with nozzle traveling to full straight stream during stow |  |
| E. Press the Deploy switch |  |
| F. Verify 1-6 Blink Code |  |
| G. Move Monitor to desired Deployed position | |
| H. Press Fog to save deploy position with nozzle traveling to full fog pattern during deploy or Press Stream to save deploy position with nozzle traveling to full straight stream during deploy. |  |
| I. Cycle Power |  |

StreamMaster II – Obstacle Avoidance

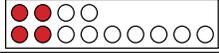
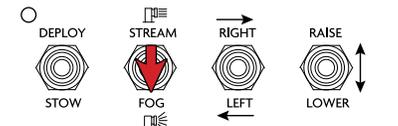
Step 1 – Enter the set up menu

| | |
|--|---|
| A. Turn power off to the monitor |  |
| B. HOLD the STREAM switch and Power On (From any controller) |  |
| C. Continue to hold stream until LED blinks If you have successfully entered the menu you will see a slow steady blink (every 3 seconds) |  |

Step 2 – Determine if using Manual or Automatic Avoidance

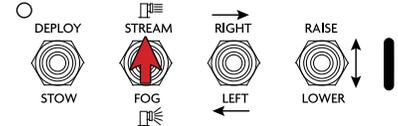
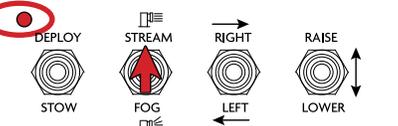
| | |
|---|---|
| A. Press the STREAM switch 9 times for Manual and 10 for Auto Obstacle Avoidance |  |
| B. Verify 2-2 Blink Code for Manual |  |
| C. Verify 2-3 Blink Code for Automatic |  |
| D. Press Fog to save either Manual or Automatic. |  |
| E. Verify 2-4 Blink Code for Obstacle Avoidance Learn Mode Starting from either right or left lower soft limit. |  |
| F. Learn lower horizontal limit by moving monitor either left to right or right to left at the lowest horizontal position. | |
| G. Press Fog to save learned position. |  |
| H. Cycle Power |  |

Step 3 – Disable Obstacle Avoidance

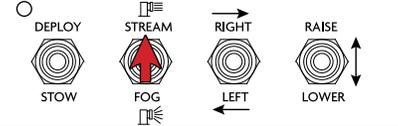
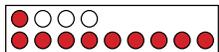
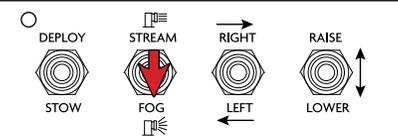
| | |
|---|---|
| A. Go to Blink Code 2-1 |  |
| B. Press Fog to disable Obstacle Avoidance |  |
| C. Cycle Power |  |

StreamMaster II – Restore Factory Defaults

Step 1 – Enter the set up menu

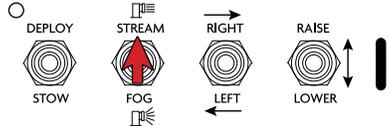
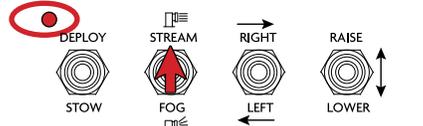
| | |
|--|---|
| A. Turn power off to the monitor |  |
| B. HOLD the STREAM switch and Power On (From any controller) |  |
| C. Continue to hold stream until LED blinks If you have successfully entered the menu you will see a slow steady blink (every 3 seconds) |  |

Step 2 – Restore Factory Defaults

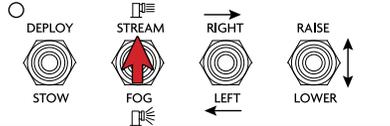
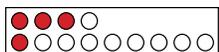
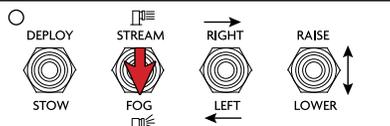
| | |
|--|---|
| A. Press the STREAM switch 7 times |  |
| B. Verify 1-9 Blink Code |  |
| C. Press Fog to reset to factory defaults |  |
| D. Cycle Power |  |

StreamMaster II – Electric Riser Enable/Disable

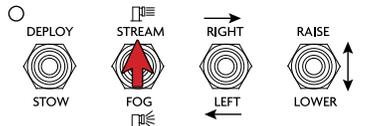
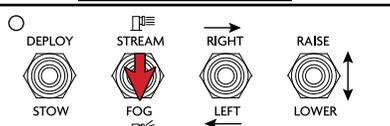
Step 1 – Enter the set up menu

| | |
|--|---|
| A. Turn power off to the monitor |  |
| B. HOLD the STREAM switch and Power On (From any controller) |  |
| C. Continue to hold stream until LED blinks If you have successfully entered the menu you will see a slow steady blink (every 3 seconds) |  |

Step 2 – Electric Riser Disable

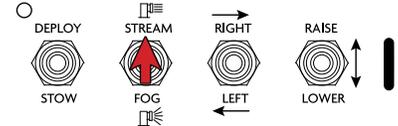
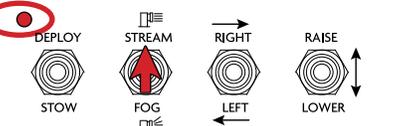
| | |
|--|---|
| A. Press the STREAM switch 14 times |  |
| B. Verify 3-1 Blink Code |  |
| C. Press Fog to turn on the riser |  |
| D. Cycle Power |  |

OR Step 2 - Electric Riser Enable

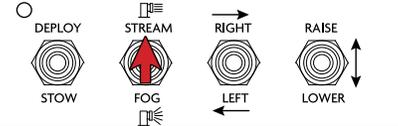
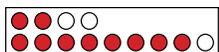
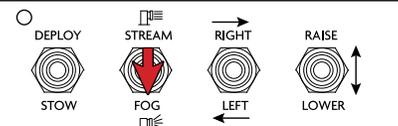
| | |
|--|---|
| A. Press the STREAM switch 15 times |  |
| B. Verify 3-2 Blink Code |  |
| C. Press Fog to turn off the riser |  |
| D. Cycle Power |  |

StreamMaster II – Ladder Avoidance

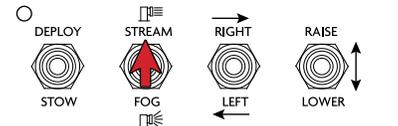
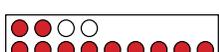
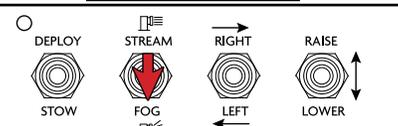
Step 1 – Enter the set up menu

| | |
|--|---|
| A. Turn power off to the monitor |  |
| B. HOLD the STREAM switch and Power On (From any controller) |  |
| C. Continue to hold stream until LED blinks If you have successfully entered the menu you will see a slow steady blink (every 3 seconds) |  |

Step 2 – Ladder Avoidance ON

| | |
|---|---|
| A. Press the STREAM switch 12 times |  |
| B. Verify 2-8 Blink Code |  |
| C. Press Fog to turn on ladder avoidance |  |
| D. Cycle Power |  |

OR Step 2 - Ladder Avoidance OFF

| | |
|--|---|
| A. Press the STREAM switch 13 times |  |
| B. Verify 2-9 Blink Code |  |
| C. Press Fog to turn off ladder avoidance |  |
| D. Cycle Power |  |

Blink Codes & Notes

| Setup Parameter | Blink Code | StreamMaster II |
|---|----------------------|-------------------------------|
| Beginning of setup | 0-1 (One slow blink) | Programming Order (See Notes) |
| Right Soft Limit | 1-1 | NOTE 2 |
| Left Soft Limit | 1-2 | NOTE 2 |
| Up Soft Limit | 1-3 | NOTE 2 |
| Down Soft Limit | 1-4 | NOTE 2 |
| Stow | 1-5 | NOTE 4 |
| Deploy | 1-6 | NOTE 4 |
| Monitor Orientation | 1-7 | |
| Zero Position Sensors | 1-8 | NOTE 1 |
| Restore Factory defaults | 1-9 | |
| Obstacle avoidance Disable | 2-1 | |
| Obstacle Avoidance Manual Operation | 2-2 | NOTE 3 |
| Obstacle Avoidance Auto Operation | 2-3 | NOTE 3 |
| Obstacle Avoidance Learn | 2-4 | NOTE 3 |
| Ladder Avoidance On (3598, 3480/3482 only) | 2-8 | |
| Ladder Avoidance Off (3598, 3480/3482 only) | 2-9 | |
| Electric Riser disable | 3-1 | |
| Electric Riser enable | 3-2 | |
| Ladder Avoidance position set (3480/3482) | 3-6 | |
| CAN Valve Disable | 4-1 | |
| CAN Valve Enable | 4-2 | |
| CAN Valve Pair | 4-3 | |
| CAN Valve Calibrate | 4-4 | |

NOTES:



1. This step only needs to be done in two cases. If there is a position indicator in the system and/or the monitor is mounted such that the physical rotational zero position is not in line with the physical center of the apparatus. If needed, this step must be done first before setting ANY other positions.

This setting will erase any previously set positions including obstacle avoidance and stow/deploy.



2. These steps must be performed. The soft limits must be programmed so that the monitor stops before hitting a hard limit. Hitting a hard limit will cause a sensor error code. If there is an active sensor error code, all soft limits and automatic functions (stow/deploy, oscillation and obstacle avoidance) are ignored and the monitor will move throughout its entire physical range with no restrictions which could cause collisions with the truck or truck mounted obstacles.

3. These steps are optional and depend on the application needs.



4. Stow/Deploy position programming should be done after soft limits and obstacle avoidance (if used)



Error Codes

Error Codes consist of a two part blink code. The first digit can be 1, 2 or 3 short blinks followed by another set of short blinks (1-9). On the last blink of the second digit the LED remains on so it appears to be a long blink, then the code repeats itself. For example, error code 1-1 appears visually as a short blink, short pause with LED off, then a long blink, then another short pause with the LED off, then repeats.

| | | |
|-----|--|---|
| 1-1 | Rotation sensor | Mag Switch: rotation mag switch was not detected during a stow or deploy sequence. Pos. Feedback: rotation sensor signal is missing or not changing while monitor is moving |
| 1-2 | Elevation sensor | Mag Switch: elevation mag switch was not detected during a stow or deploy sequence. Pos. Feedback: elevation sensor signal is missing or not changing while monitor is moving |
| 1-3 | Swing Arm sensor (3440 Only) | Monitor is in stowed or deployed mode and the swing arm sensor signal is lost or a hard stop is encountered (regardless of mode) |
| 1-4 | Attitude sensor | Auto attitude sensor signal out of limits (3351 only) |
| 1-5 | Operator Override (Emergency Stop) | During a stow sequence, a command input was received from an operator station which is interpreted as an emergency stop request and blinks the 1-5 error code. If a command input is received during a deploy sequence, the monitor will stop and go back to normal operation from its current position |
| 1-6 | Obstacle Avoidance profile missing | The obstacle avoidance feature is turned on but the avoidance profile has not been learned |
| 1-7 | Rotation hard stop (position feedback only) | A hard stop was encountered during normal rotation indicating an obstacle was hit or a soft limit was set too close to a hard stop. |
| 1-8 | Elevation hard stop (position feedback only) | A hard stop was encountered during normal elevation indicating an obstacle was hit or a soft limit was set too close to a hard stop. |
| 1-9 | Swing Arm hard stop | Hard stop encountered while stowing or deploying after leaving a valid stowed or deployed position |
| 2-1 | Electric Riser | The electric riser function has been turned on but the riser is not available on the network |
| 2-2 | CAN Valve Not Calibrated | Valve function turned on and paired but not yet calibrated. |
| 2-3 | CAN Valve Not Located | Pairing process failed during setup or valve lost power and/or CAN communications while operating |



PHONE: 330.264.5678 or 800.228.1161 | FAX: 330.264.2944 or 800.531.7335 | www.akronbrass.com

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