The following is intended to provide the basic instructions for installation, operation and maintenance of the TuckAway electric monitor, and to assist in attaining the best possible performance from the unit. Read and understand these operating instructions before use.

TOOLS REQUIRED

- Utility Knife
- Medium Phillips screwdriver
- Small Phillips screwdriver
- Electrician’s pliers (multipurpose, stripping and crimping)
- Medium flat screwdriver
- Small flat screwdriver
- 1/2 inch hex head wrench

PRODUCT RATINGS

Maximum Motor Current Draw:

<table>
<thead>
<tr>
<th>Voltage Version</th>
<th>Elevation and Rotation Motors</th>
<th>Nozzle Pattern Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 volt versions</td>
<td>15.0 amps</td>
<td>3.0 amps</td>
</tr>
<tr>
<td>24 volt versions</td>
<td>7.5 amps</td>
<td>1.5 amps</td>
</tr>
</tbody>
</table>

Normal Operating Current: (Depending on operating conditions—pressure, flow, etc.)

<table>
<thead>
<tr>
<th>Voltage Version</th>
<th>Elevation, Rotation, and Stow Motors</th>
<th>Nozzle Pattern Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 volt versions</td>
<td>3.0 to 10.0 amps</td>
<td>0.7 amps</td>
</tr>
<tr>
<td>24 volt versions</td>
<td>2 - 5 amps</td>
<td>0.4 amps</td>
</tr>
</tbody>
</table>

Minimum Voltage: (Truck engine must be operating for proper voltage requirement.)

- All 12 volt motors: 11.5 volts while operating
- All 24 volt motors: 23 volts while operating

Maximum Flow: 1000 gpm (3800 lpm)

Maximum Pressure: 200 psi (14 bar)

PRODUCT WARNINGS

⚠️ WARNING: For fire fighting use only by trained fire fighters.

⚠️ WARNING: Charge the unit slowly. Rapid charging may cause a pressure surge that has the potential to cause an injury, or damage the monitor.

⚠️ WARNING: DO NOT stow or deploy the TuckAway monitor while flowing. Pressing the stow or deploy buttons causes the nozzle to move automatically and the water stream may cause damage to equipment or injury to personnel could result.

⚠️ WARNING: Aim the unit in a safe direction before pumping water through it. (i.e. Away from power lines)
WARNING: Although the logic circuit board includes a water-resistant coating, it is important to keep water out of the control and logic boxes. Prolonged exposure to water will cause damage. When the cover of the control or logic box is removed, check that the O-ring under the cover is intact and free of dirt and debris.

WARNING: The TuckAway monitor uses current limiting for both the monitor and nozzle. Use only appropriate Akron Brass Company nozzles.

WARNING: Do not use the electric controls when the override cranks are being used or are in position for use.

WARNING: Replace the identification tags if they should become worn or damaged.

WARNING: DO NOT exceed the maximum pressure or flow ratings of the monitor. Exceeding these ratings may lead to an injury or may cause damage to the monitor.

WARNING: DO NOT install shut-offs on the outlet of the TuckAway electric monitor. Shut-offs increase the potential for pressure surges due to water hammer, which have the potential to cause an injury or damage the monitor.

WARNING: If not equipped with an automatic drain valve, drain the TuckAway monitor after use to prevent “freeze damage”.

WARNING: Ensure that the TuckAway is returned to the stow position after use.

WARNING: The TuckAway monitor was designed for use with the Akromatic nozzle. Use of any other nozzle could affect the speed or operation of the unit and should be tested before being put into service.

WARNING: Make the connection of the vehicle and auxiliary battery the final step.

MECHANICAL MONITOR ATTACHMENT

WARNING: INSUFFICIENT STRUCTURAL SUPPORT CAN LEAD TO FAILURE, WHICH HAS POTENTIAL TO CAUSE AN INJURY. THEREFORE, ADDITIONAL STRUCTURAL SUPPORT AT THE INLET FLANGE OR AT THE INLET ELBOW (Figure 1) MAY BE REQUIRED. (Contact Akron Brass Customer Service for assistance.)

ROTATIONAL STOPS
The rotational stops set the boundaries for the area that the monitor is allowed to travel. The monitor is shipped with a stop in location 2 which gives a 90° clockwise and 90° counter-clockwise rotation (See Figure 2). The 45° clockwise and 45° counter-clockwise rotation is achieved by adding stops in location 1 & 3 and a plug in location 2. Both the plugs and the stops have a 1/2" hex head. Refer to Figure 2 to determine which stop location is needed for the desired rotation. Also set DIP Switch 4 ON if ±45° rotation is desired.

VERTICAL STOP
The vertical stop will limit the elevation of the outlet. The monitor is shipped with a vertical elevation of 30° above horizontal. The monitor can be changed to 90° above horizontal by replacing the stop with the 1/2" hex head plug in the 30° stop location (See Figure 2).

MECHANICAL ATTACHMENT OF CONTROLLER AND LOGIC BOX
Refer to Universal II Control Installation, Operation, Maintenance manual, document # 122552.
OPERATING INSTRUCTIONS

A. PANEL CONTROLLER OPERATION
The panel controller is used to control the monitor and nozzle.

1. To deploy the monitor for use:
   Press the STOW/DEPLOY toggle switch up and hold for approximately 2 seconds until the monitor begins to (stow) then release.

2. To stow the monitor after use:
   Press the STOW/DEPLOY toggle switch down and hold for approximately 2 seconds until the monitor begins to (deploy) release.

3. To change the horizontal monitor position toward the right or left:
   Press the proper toggle switch toward “RIGHT” or “LEFT” respectively, as labeled on the controller, until the desired position is reached.

4. To change the vertical monitor nozzle position upward or downward:
   Press the proper toggle switch toward “RAISE” or “LOWER” respectively, as labeled on the controller, until the desired position is reached.

5. To change the nozzle pattern toward the straight stream or fog position:
   Press the proper toggle switch toward “STRAIGHT” or “FOG” respectively, as labeled on the controller, until the desired nozzle position is reached.

B. EMERGENCY STOP DURING DEPLOY OR STOW
If it is necessary to immediately stop the TuckAway monitor during the deploy or stow sequence, activate any switch on the control panel and the unit will stop moving. To complete the stow or deploy sequence after an emergency stop, activate and release the stow/deploy toggle switch. This will automatically continue the stow/deploy sequence. Be sure to completely deploy the monitor before flowing water.

V. MANUAL OVERRIDE CONTROLS
The manual override control is to be used only when the power to the monitor is off. A single override crank with a $\frac{1}{4}$” hex drive is provided and attached to the monitor for use on both the horizontal and vertical override controls. To use the manual override, insert the hex drive end of the override crank into the hexagon shaped hole on the shaft end opposite the motor. Rotate the override crank in the desired direction to aim the monitor. The crank is not intended for use while flowing water, but rather to stow a non-working monitor for transport to repair facilities.

⚠️ WARNING: When the override crank is no longer in use, put it back in the storage position. Do not use the electric controls when the override crank is being used or is in position for use.
MAINTENANCE INSTRUCTIONS

Your TuckAway monitor and nozzle should be inspected prior to and after each use to ensure it is in good operating condition. Periodically, an unanticipated incident may occur where the unit is misused in a manner that is inconsistent with standard operating practices. A partial list of potential misuses includes:

- Operating above the maximum rated pressure or flow.
- Prolonged exposure to temperatures above 130°F, or below -25°F.
- Operating in a corrosive environment.
- Having the TuckAway nozzle hit a fixed object during operation or transportation.
- Other misuse that might be unique to your specific environment.

Also, there are many “tell tale” signs that indicate repair is in order, such as:

- Controls that are either inoperable or difficult to operate.
- Excessive wear
- Poor discharge performance
- Water leaks.

If any of the above situations are encountered, the TuckAway monitor should be taken out of service, repaired, and tested by a qualified technician before placing back in service.

A. MOTOR REPLACEMENT
To replace the horizontal, vertical motors:

1. Disconnect power from the unit.
2. Loosen and remove the 4 socket screws from the gearbox housing
3. Slowly remove the motor assembly and gearbox housing from the unit.
   Important: Make sure the internal gear remains in place, (hold with a screwdriver), to avoid gear alignment problems.
4. Loosen and remove the 4 socket head cap screws from the inside of the gearbox housing that hold the housing and the motor assembly together.
5. Remove the gearbox housing from the motor assembly.
6. Replace both O-ring seals on the gearbox housing.
7. Attach the new motor assembly to the gearbox housing, making sure all 4 screws are tight.
8. Install the motor and gearbox housing assembly to the unit making sure all 4 socket screws are tight. It may be necessary to rotate the motor slightly to get the motor gear to line up with the gears inside the gearbox.
   Hint: Use the override crank manual.
9. Restore power to the unit.
10. Test the operation of the unit.

Call Akron Brass Technical Service if any problems are encountered.
Figure 2

**SIDE VIEW - DEPLOYED**

- 30° Upper Limits
- 90° Below Horizontal

**FRONT VIEW - DEPLOYED**

**VERTICAL STOPS DETAIL**

- Upper 90° Stop
- 30° Stop

**SIDE VIEW**

- 90° Rotation (Factory Set)
- Plug
- Stop

**SIDE VIEW - DEPLOYED**

- 90° Rotation (Factory Set)
- Plug
- Stop
WARRANTY AND DISCLAIMER: We warrant Akron Brass products for a period of five (5) years after purchase against defects in materials or workmanship. Akron Brass will repair or replace product which fails to satisfy this warranty. Repair or replacement shall be at the discretion of Akron Brass. Products must be promptly returned to Akron Brass for warranty service.

We will not be responsible for: wear and tear; any improper installation, use, maintenance or storage; negligence of the owner or user; repair or modification after delivery; damage; failure to follow our instructions or recommendations; or anything else beyond our control. WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, OTHER THAN THOSE INCLUDED IN THIS WARRANTY STATEMENT, AND WE DISCLAIM ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. Further, we will not be responsible for any consequential, incidental or indirect damages (including, but not limited to, any loss of profits) from any cause whatsoever. No person has authority to change this warranty.

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