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## STYLE 3579 STREAMMASTER™ INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

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

### PRODUCT RATINGS

Maximum Motor Current Draw:

12 volt versions	14.0 amps each for elevation and rotation motors 3.0 amps for nozzle pattern motor
24 volt versions	7.5 amps each for elevation and rotation motors 1.5 amps for nozzle pattern motor

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

12 volt versions	3.0 to 10.0 amps each for elevation and rotation 0.7 amps for nozzle pattern motor
24 volt versions	2 - 5 amps each for elevation and rotation motors 0.4 amps for nozzle pattern motor

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

Mass: 39 lbs. (17.7 kg)

### PRODUCT WARNINGS

- ⚠ WARNING:** Although the circuit board includes a water-resistant coating, it is important to keep water out of the control box and logic box. Prolonged exposure to water will cause damage.
- ⚠ WARNING:** When the cover of the control box or logic box is removed, check that the O-ring under the cover is intact and free of dirt and debris.
- ⚠ WARNING:** Do not use the electric controls when the override cranks are being used or are in position for use.
- ⚠ WARNING:** Make the Power Lead connection of the vehicle the final step.
- ⚠ 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:** The StreamMaster monitor, logic box, control box, and field adjustable stops are made for optimal performance. Do not alter in any manner.
- ⚠ WARNING:** The StreamMaster monitor contains moving parts. Keep hand, finger and objects away from pinch points (Figure 1).
- ⚠ WARNING:** Disconnect power before maintenance.
- ⚠ WARNING:** Not designed for explosive environments.



## GENERAL INSTRUCTIONS

- Review the instructions, wiring diagram and component layout before installing this unit. This unit operates on 12 volt DC or 24 volt DC depending on the unit chosen. All electrical current flows through the wires. The monitor does not act as a ground. Do not extend the wires from the logic box to the monitor.
- Ensure that the thread in the nozzle swivel matches the thread on the StreamMaster outlet. Do not overtighten the nozzle onto the StreamMaster.

## MECHANICAL MONITOR ATTACHMENT

The Monitor is to be mounted on the waterway with eight  $\frac{5}{8}$  inch bolts and nuts of grade five minimum and suitable washers with a minimum of six threads engagement. The bolts must be tightened in a criss cross pattern progressively increasing tightening torque to a maximum of 100 foot pound dry.

NOTE: Not recommended to mount on a raised flange or have a butterfly valve between the flanges. This may cause damage to the monitor's flange when tightening the bolts.

## MECHANICAL ATTACHMENT OF LOGIC BOX

The StreamMaster logic box must be mounted close enough to the monitor to allow the 8 ft. monitor wiring harness sufficient slack to allow the monitor to travel through its full range. The logic box overall dimensions are given in Figure 2.

**⚠ WARNING:** Do not extend the monitor wiring harness.

## ELECTRICAL INSTALLATION INSTRUCTIONS

### A. JOYSTICK ELECTRICAL ATTACHMENT

Attach the 20-7 cable for the joystick to the appropriate terminals. Each wire is color coded. See Figure 2.

### B. MONITOR WIRING HARNESS ATTACHMENT

Connect the two Deutsch connectors together for the monitor wiring harness.

### C. BATTERY ATTACHMENT

The battery connections should be the last connection made. Attach 14-2 Power Lead to the Voltage Supply. See Figure 2.

## OPERATING INSTRUCTIONS

### A. CONTROLLER OPERATION

The controller is used to control the monitor and nozzle.

1. To change the horizontal monitor position toward the right or left:  
Push the Joystick toward "RIGHT" or "LEFT" respectively, as labeled on the Joystick, until the desired position is reached.
2. To change the vertical monitor nozzle position upward or downward:  
Push the Joystick toward "RAISE" or "LOWER" respectively, as labeled on the Joystick, until the desired position is reached.

### B. MANUAL OVERRIDE CONTROLS

The manual override control is to be used only when the power to the monitor is off. A 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.

**⚠ 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 StreamMaster monitor should be inspected prior to and after each use to ensure it is in good operating condition. Periodically, an unanticipated incident occurs 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.
- Operating in a corrosive environment.
- Having the nozzle hit a fixed object during operation or transportation.
- Any 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

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

### MOTOR REPLACEMENT

To replace either the horizontal or vertical rotational motors:

1. Disconnect Power from the unit.
2. Loosen and remove the four socket screws (Item 4 on the Parts List) from the gearbox housing (52).
3. Slowly remove the motor assembly (59) and gearbox housing (52) from the unit.  
**IMPORTANT: Make sure the internal gear, (Item 47 on the Parts List), remains in place, (hold with a screwdriver), to avoid gear alignment problems.**
4. Loosen and remove the four socket head capscrews (51) from the inside of the gearbox housing that hold the housing and the motor assembly together.
5. Remove gearbox housing (52) from the motor assembly (59).
6. Replace both o-ring seals (50 & 53) on the gearbox housing (52).
7. Attach the new motor assembly (59) to the gearbox housing (52) making sure all four screws (51) are tight.
8. Install the motor and gearbox housing assembly to the unit making sure all four 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.
9. Restore power to the unit.
10. Test the operation of the unit.

**Figure 1**

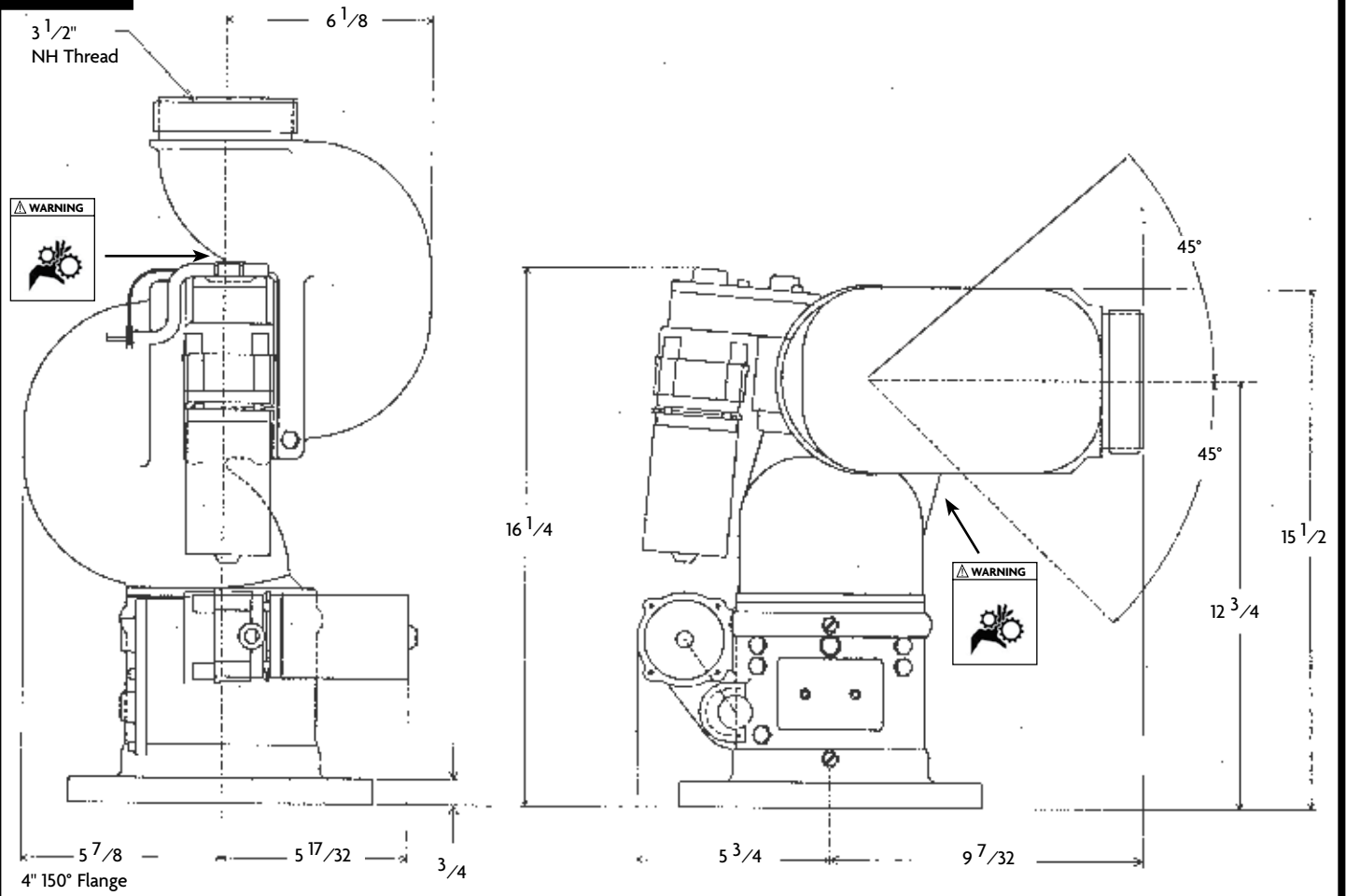
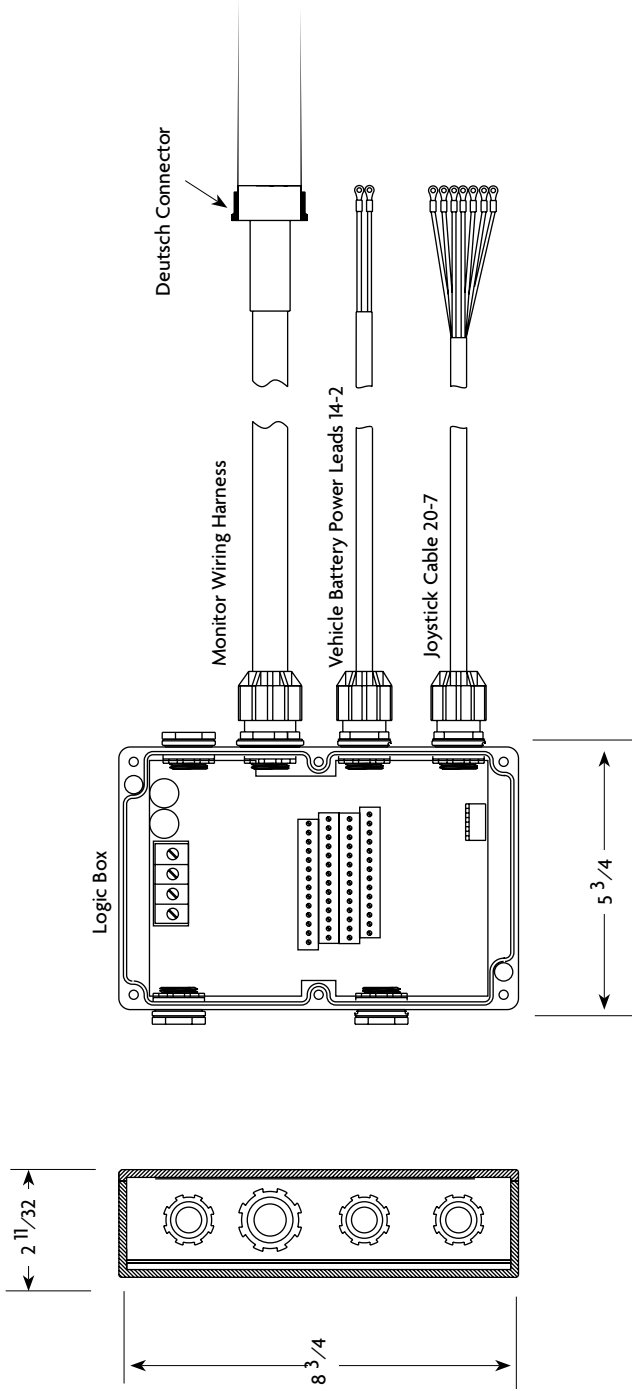


Figure 2

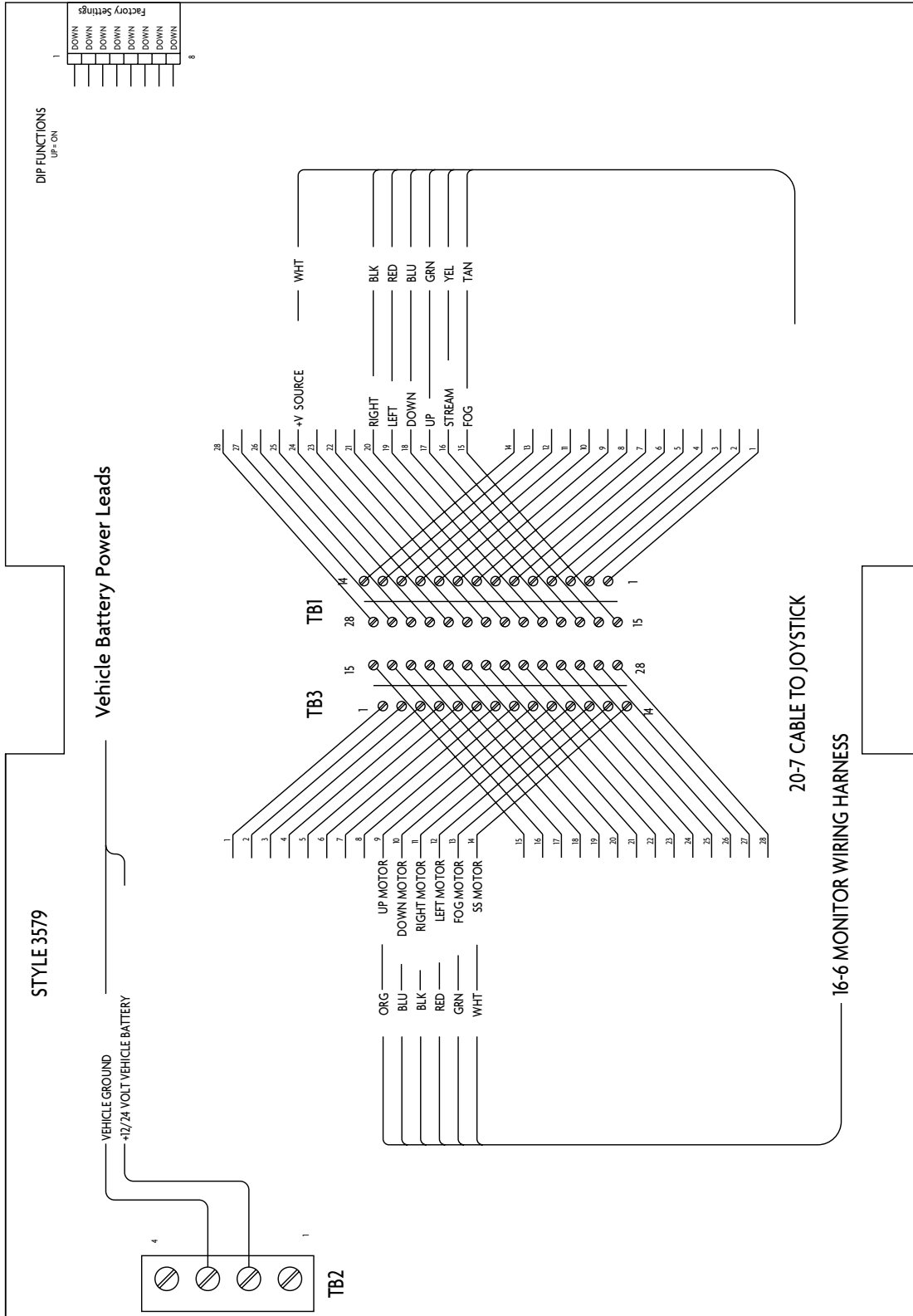
**ELECTRICAL COMPONENT LAYOUT**



Color	Description	Logic Box Terminal
TAN	SIGNAL FOG	TBI-15
YELLOW	SIGNAL STREAM	TBI-16
GREEN	SIGNAL UP	TBI-17
BLUE	SIGNAL DOWN	TBI-18
RED	SIGNAL LEFT	TBI-19
BLACK	SIGNAL RIGHT	TBI-20
WHITE	COMMON 12/24V	TBI-24

Color	Description	Logic Box Terminal
WHITE	+V (BATTERY)	TB2-2
BLACK	-V (GROUND)	TB2-3

**Figure 3**





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