

# rule<sup>®</sup> 360 READY PACK BILGE PUMP & SWITCH

## INSTALLATION INSTRUCTIONS

### PUMP MOUNTING INSTRUCTIONS

- Disassemble as follows:
  - Press strainer base fingers inward to release body housing.
  - Remove pump from base.
- Mount the blue strainer to your boat with stainless steel screws; on a fiberglass boat you may prefer to place a wooden block in place on which you can fasten the strainer.
- Re-assemble as follows:
  - Align pump clasps to accept strainer base and press pump down to snap into place.
- Side bracket mount
  - To mount this pump against a transom or a vertical surface, use bracket mount accessory Model 66 (not provided).

### HOSE & THRU HULL

- Use flexible Rule<sup>®</sup> hose (Model #81) or suitable substitute with 3/4" I.D. Hose must run up-hill from pump to outlet. This prevents pockets in the hose which can cause air-locking.
- Use Rule Thru-Hull, Model #61, #61 S. Locate Thru-Hull fitting at least 12" above the water line to prevent water from coming back into the hull. On transom mount, mount thru-hull high enough on the center of the transom to be above anticipated water line.

### SWITCH MOUNTING INSTRUCTIONS

To mount your float switch, follow these steps:

- Locate the switch, on a flat surface, in the bilge at the desired location.
- Gently lift the float and mark the location of the front screw.
- Remove the switch from the location mark, and drive in one screw (approximately 1/2" from the flat surface) so that the switch can easily slide under the head of the screw.
- Slide the float switch under the head of the screw and then drive a second screw into the back screw hole, being careful not to overtighten the screw as this may distort the switch and impair its operation. It is important that the switch is mounted 1/4" higher than the base of the pump strainer. This will assure positive shut-off of the pump.

### ELECTRICAL PUMP & SWITCH

Wire as shown in the diagram below. The hot side of the battery should connect directly to a 2-1/2 amp fuse. This will prevent damage to the switch and pump should a short occur. Normal installation requires 16 gauge wire. For installations over 25 ft. from the battery use 14 gauge wire.

KEEP ALL WIRE CONNECTIONS ABOVE THE HIGHEST WATER LEVEL. CUTTING THE SWITCH OR PUMP WIRES MAY VOID THE WARRANTY AND/OR CAUSE PREMATURE FAILURE. ALL WIRE CONNECTIONS SHOULD BE SEALED WITH RULE<sup>®</sup> ELASTOMERIC SEALANT TO PREVENT WIRE CORROSION.

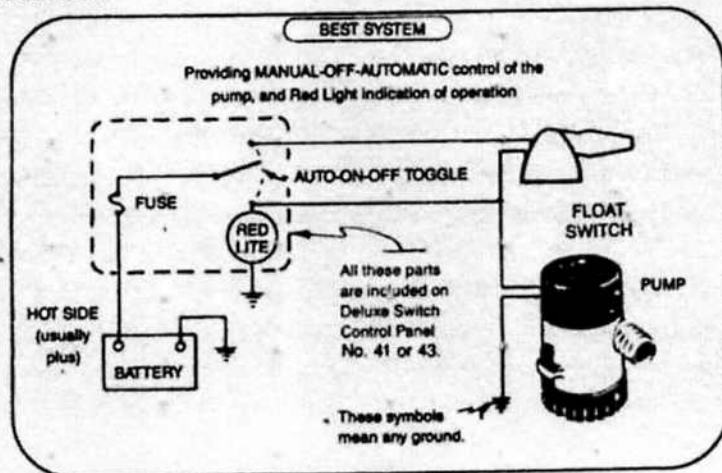
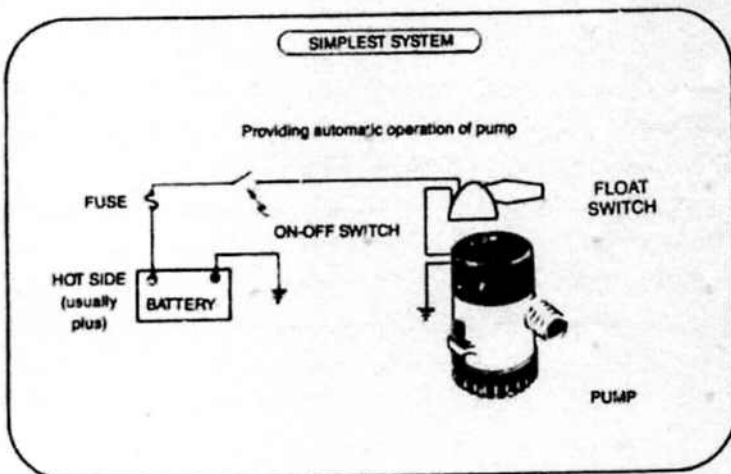
For the best installation, it is recommended that a Rule<sup>®</sup> Deluxe 3-Way Panel Switch (Model #41 or #43) be used. They are pre-wired with a red light and fuseholder (see wiring diagram below).

Please Note: The float switch is designed for automatic operation. It will automatically turn the pump on when the water is 2-1/2" deep and off when the water level is approximately 1-1/8" deep. To pump the water level lower, use the "Manual" position on the Rule<sup>™</sup> Panel Switch.

The liquid sound you hear in the pendulum portion of the switch is mercury, not water. IF FLOAT ACTION APPEARS SLUGGISH AND/OR THE FLOAT DOES NOT MOVE FREELY, INTERMITTENT OR SPORADIC OPERATION OF THE PUMP MAY OCCUR. THIS CONDITION IS USUALLY THE RESULT OF OIL AND/OR DIRT ACCUMULATING IN AND AROUND THE MOVEABLE PARTS OF THE SWITCH. TO CLEAN, TRY SOAKING THE ENTIRE SWITCH IN SUDBURY<sup>®</sup> AUTOMATIC<sup>®</sup> BILGE CLEANER OR RULE ALL PURPOSE MARINE CLEANER FOR 10 MINUTES, AGITATING SEVERAL TIMES AND CHECKING FOR SMOOTH AND FREE OPERATION OF THE FLOAT. REPEAT IF NECESSARY.

THIS PRODUCT CONTAINS MERCURY WHICH SHOULD BE DISPOSED OF PROPERLY. IF YOU CANNOT ARRANGE FOR PROPER DISPOSAL, THE PRODUCT MAY BE RETURNED PREPAID TO RULE INDUSTRIES INC., CAPE ANN INDUSTRIAL PARK, GLOUCESTER, MA 01930 FOR DISPOSAL.

## WIRING DIAGRAM



rule industries, inc.  
Cape Ann Industrial Park, Gloucester, MA 01930

**WARNING:**

This pump is designed for use with fresh and salt water only. Use with any other medium, including particularly hazardous, caustic or corrosive substances, could result in damage to the pump, the surrounding environment and injury to persons or property, including possible exposure to hazardous substances. This pump is for water applications only.