

SeaStar Solutions Products

Marine Ignition Interrupt Switch

For Use With

The SeaStar Solutions Series SL3 Side Mount Control



Installation Manual

INSTALLATION, OPERATION and
MAINTENANCE INSTRUCTIONS

This manual must be accessible to the owner/user of this SeaStar Solutions product.

PLEASE READ THESE INSTRUCTIONS CAREFULLY AND THOROUGHLY BEFORE INSTALLING OR OPERATING THIS IGNITION INTERRUPT SYSTEM! YOU MUST HAVE THE SL3 SIDE MOUNTED CONTROL INSTRUCTIONS AND MOUNTING TEMPLATE WITH YOU TO PROPERLY INSTALL THIS MARINE PRODUCT.

All specifications and features are subject to change without notice.

General Information

This Interrupt Switch is to be used solely with SeaStar Solutions SL-3 Side Mount Controls to stop the engine of and inboard, I/O or outboard powered boat instantly in the event an operator is accidentally removed from the controls.

The Interrupt Switch includes a lanyard clip which holds the plunger of the Switch in position to allow engine operation. A lanyard extends from the clip and is connected to the operator. Should the operator move away from the controls, the clip is pulled free, releasing the plunger and stopping the engine.

Figure 1.

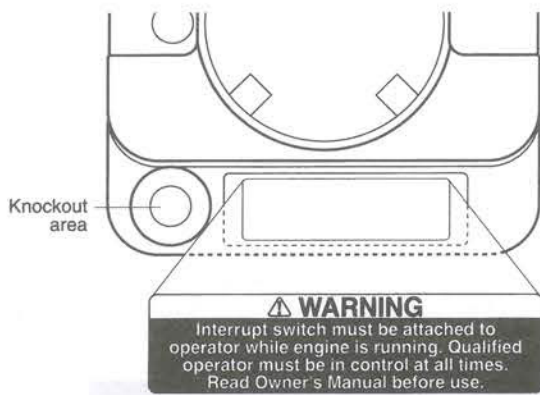
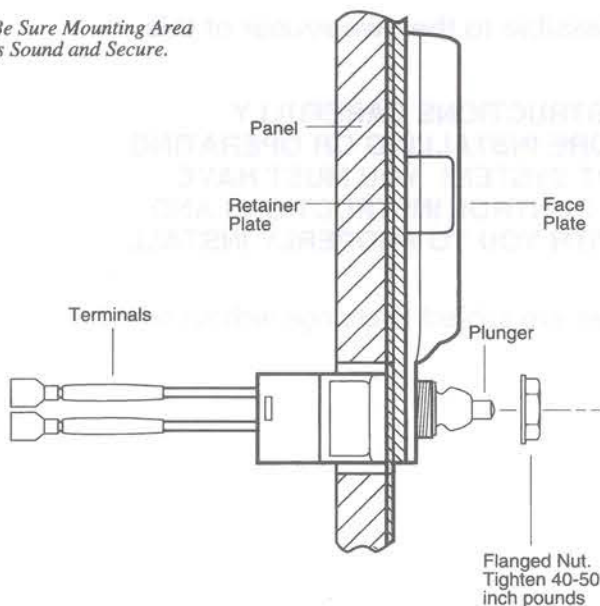


Figure 2.

Be Sure Mounting Area is Sound and Secure.



Installation

1. Before drilling, check behind the panel for sufficient clearance around wires, pipes, control cables and other obstructions.
2. Drill a 1.25 inch hole in the mounting surface as shown by the Mounting Template included in the SeaStar Solutions SL-3 Side Mount Control Interrupt Switch Kit.
- 3a. If you are retro-fitting the Interrupt Switch onto an existing SL3 Side Mounted Control: Punch out the pre-cut hole area on the bottom left corner of the SL3 Face Plate. Add the "WARNING" label to the bottom of the SL3 Face Plate (see Figure 1).
- 3b. If you are purchasing this control with the SL3 Side Mounted Control, the hole is already knocked out and the "WARNING" label attached.
4. Insert the Interrupt Switch from behind the mounting surface, through the SL3 Retainer and Face Plate (see Figure 2). Be sure to align flats on Switch and Retainer Plate to prevent Switch rotation.
5. Tighten the Flanged Nut to 40-50 inch pounds to secure the Switch. Do not over-tighten
6. Check for proper mounting security by removing the lanyard assembly with a tug on the cord. Re-tighten nut if the Switch is loose.

Electrical Connections for I/O or Inboard Use Only

1. Disconnect all batteries and any auxiliary on-board or dockside power supplies.
2. Locate the purple ignition switch-to-coil wire. See Diagram A.

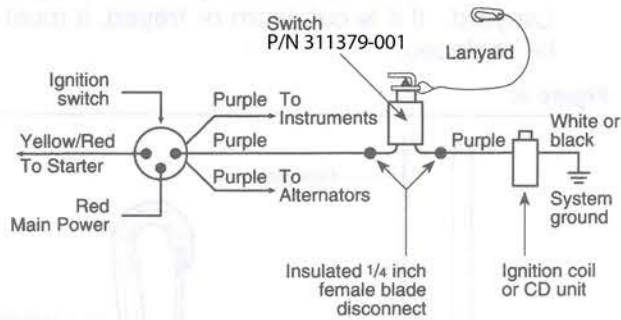
CAUTION

BE SURE THIS WIRE GOES DIRECTLY TO THE COIL AND NOT TO THE INSTRUMENT OR ALTERNATOR CIRCUIT. SELECTING THE INCORRECT WIRE WILL RESULT IN IMPROPER SWITCH OPERATION WHICH COULD LEAD TO SERIOUS INJURY.

3. Cut the Purple wire, strip the ends and install two (2) insulated crimp-on 1/4 inch female disconnect terminals. A crimping tool designed for insulated terminals **MUST** be used.

Diagram A. I/O and Inboard Wiring

Clip Must be Installed for Proper Operation.



4. Attach the female disconnects to each of the male terminals on the Interrupt Switch.
5. Recheck all connections. Install Lanyard with the Fork Clip seated on the Plunger.
6. Reconnect battery.
7. Start engine. If engine does not start: Disconnect battery, recheck all electrical connections, reconnect battery, and restart engine.
8. Remove Lanyard. Engine should stop immediately.

⚠ CAUTION

IF ENGINE FAILS TO STOP, RECHECK ALL WIRING. SHOULD THE ENGINE FAIL TO START OR STOP, OR RESUMES RUNNING WITH THE LANYARD FORK REMOVED, CONSULT YOUR LOCAL MARINE DEALER FOR ASSISTANCE.

Electrical Connections for Outboard Use Only

⚠ CAUTION

THIS INTERRUPT SWITCH IS DESIGNED FOR USE WITH OUTBOARD MOTORS EQUIPPED WITH GROUNDING TYPE EMERGENCY STOP CIRCUITS ONLY!

If the following information is not correct for your model motor or application, consult your local marine dealer for details.

1. Disconnect all batteries and any auxiliary on-board or dockside power supplies.
2. Remove Engine Cover.
3. Locate the correct color emergency stop wire for your motor (reference Table 1).

Table 1.

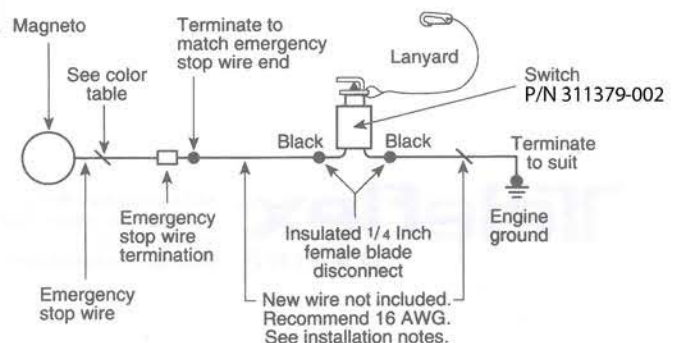
Wire Color Table For Late Model Outboards

Daihatsu	Solid Brown
Evinrude	Black with Yellow Stripe Before 1969, Solid Blue
Force	Solid White
Johnson	Black with Yellow Stripe Before 1969, Solid Blue
Mariner	Black with Yellow Stripe
Mercury	Black with Yellow Stripe
Nissan	Solid Brown
OMC	Black with Yellow Stripe Before 1969, Solid Blue
Suzuki	Solid Brown
USMarine	Blue with Black Stripe or Solid Blue
Yamaha	Black with Yellow Stripe

4. Measure and cut two lengths of Black 16 AWG marine quality wire of sufficient length to connect one Interrupt Switch terminal to the Emergency Stop Wire and the other terminal to a System Ground. See Diagram B.
5. Strip one end of each wire and crimp on an insulated 1/4 inch female disconnect terminal. A crimping tool designed for insulated terminals MUST be used.
6. Attach the female disconnects to each of the male terminals on the Interrupt Switch.
7. Attach the other end of one wire to the Emergency Stop Wire, using a suitable insulated wire connecting device, reference Wire Color Table and Diagram B.

Diagram B. Outboard Wiring

Clip Must be Installed for Proper Operation.



8. Attach the other end of the second wire to the ground point, using a suitable insulated wire connection device as shown in Diagram B.
9. Recheck all connections. Install the Lanyard with the Fork Clip seated over the Plunger.
10. Replace engine cover.
11. Reconnect battery.
12. Start engine. If engine does not start: Disconnect battery, remove engine cover, recheck all electrical connections, replace engine cover, and restart engine.
13. Remove Lanyard. Engine should stop immediately.

⚠ CAUTION

IF ENGINE FAILS TO STOP, RECHECK ALL WIRING. SHOULD THE ENGINE FAIL TO START OR STOP, OR RESUMES RUNNING WITH THE LANYARD FORK REMOVED, CONSULT YOUR LOCAL MARINE DEALER FOR ASSISTANCE.

Installation Notes

ALL WIRING, CONNECTIONS AND TERMINATIONS should be done in accordance with ABYC Spec. E-9-90.

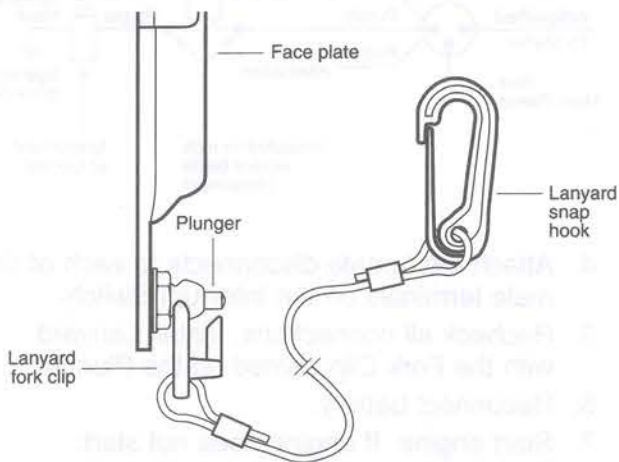
Use 16 AWG Purple stranded, insulated marine quality wire for I/O or inboard applications. (Type HDT, THW, UL 1426 or equivalent.)

Use 16 AWG Black stranded, insulated marine quality wire for all outboard applications. (Type HDT, THW, UL 1426 or equivalent.)

Operating Instructions

1. Before each motor start, check that the Lanyard Fork Clip is properly seated over the switch and rotates freely. Inspect the Lanyard. If it is cut, worn or frayed, it must be replaced.

Figure 3.



2. The Lanyard Snap Hook should be securely attached to the operator's body. Do not attach the Hook to a belt loop or button hole as these lack the strength to assure proper Switch operation.
3. Start the engine.
4. Test the Switch by pulling the Lanyard Fork Clip free from the Switch.

⚠ CAUTION

IF ENGINE FAILS TO STOP, RECHECK ALL WIRING. SHOULD THE ENGINE FAIL TO START OR STOP, OR RESUMES RUNNING WITH THE LANYARD FORK REMOVED, CONSULT YOUR LOCAL MARINE DEALER FOR ASSISTANCE.

⚠ WARNING

DO NOT USE ANOTHER MANUFACTURER'S LANYARD ON THIS INTERRUPT SWITCH, OR CHANGE THE LENGTH OF THE LANYARD, AS THIS MAY AFFECT SWITCH OPERATION.

⚠ WARNING

MISUSE, MISAPPLICATION, UNAUTHORIZED MODIFICATIONS, OR INCORRECT INSTALLATION OF THIS SAFETY DEVICE COULD RESULT IN SERIOUS BODILY INJURY OR DEATH.



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