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EIM Replacement System

Sea Ray 185 – Bowrider

OVERVIEW

This system is intended for installation by qualified technicians with a thorough understanding of 12VDC systems. These are general installation instructions assuming the installer has industry knowledge of replacing and rebuilding boat electrical systems. It is imperative that all components in the vessel be tested for proper operation and current draw before installing this system. There is typically a reason the original EIM system failed, and the cause of that failure should be investigated to prevent further damage to the vessel when this replacement system is installed.



Flounder Pounder Marine & Trading Co., Inc. will not assume any responsibility for damages whether direct or consequential arising from the installation of this EIM replacement system.

READ through the instructions FIRST – IT WILL SAVE YOU TIME!

Before beginning any work, familiarize yourself with this instruction manual.

EIM System Removal:



Turn OFF battery switches and disconnect ALL batteries



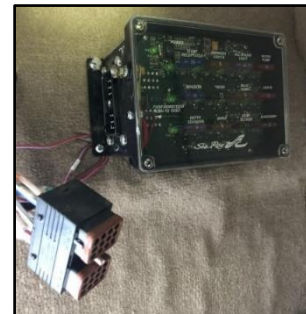
REMOVE EXISTING SWITCH PANELS

- Remove existing panels by removing the retaining nuts from the backside.
- Disconnect quick disconnect plug from the peanut pad.
- Remove face-nut for ignition switch and let it drop out of the panel.
- Cut the wires to the green extinguisher indicator lamp (if equipped)



DISCONNECT EIM WIRING

- The peanut touchpad harness, once disconnected, can be secured under the dash. The harness will not be used.
- Remove Red power lead from the EIM main terminal. The lead should come directly from a remote battery switch and powers the EIM.
- Disconnect the 24-pin plug from the EIM control box. A 5/32" or 4mm internal hex screw secures the plug to the control box.
- Remove the EIM control box.



FP Marine System Installation:

CUT DASH FOR NEW SWITCH PANEL

- Secure mounting template and follow instructions to make the proper cutout in the dash. Be sure that the template edges completely cover any existing holes in the dash.
- Use a jigsaw and masking/tape to avoid damaging the console. Having a helper with a vacuum reduces mess.
- Drill holes for the #6 mounting screws included. Be sure to countersink past the gelcoat to avoid stress cracks.

Refer to the “Mounting Template Instruction” sheet and/or our YouTube video on using dash cut-out templates



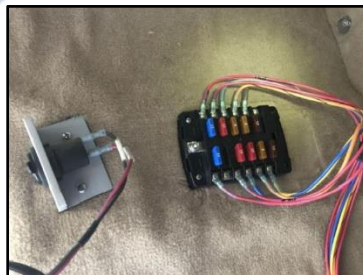
PLACE NEW SWITCH PANELS

- Set the new switch panel into place and let harness hang loose behind dash. Do not screw in the new panels until the end of installation.



INSTALL NEW FUSE BLOCK

- Install the new fuse block in the place of the EIM. Carefully route and secure all harnesses.



FINAL INSTALLATION STEPS:

24-PIN PLUG – KEYTAB CONFIGURATIONS

- The 24-pin Deutsch connectors have keytabs to insure the male and female connectors can only assemble one way. There are a few possible configurations for these tabs.
- If the keytabs do not line up correctly, you will have to file down the tabs on the boat harness plug thereby making them ineffective. Doing this will enable the plug to be inserted two different ways into the 24-pin receptacle on the switch panel harness.

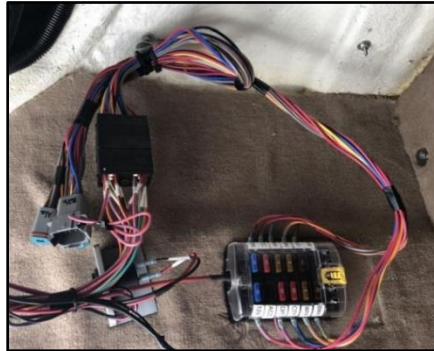


- It will be easier to perform this check before mounting the new switch panel and routing and securing the harness under the dash.
- The pin locations on the connectors are numbered 1 through 24. Be sure to mark the #1 pin location on the plug from the boat harness and on the receptacle from the new switch panel harness.
- Ensure that the #1 pins are aligned and connect the male and female 24 pin Deutsch connectors. The wire colors should also match.
- Keep in mind there are 6 un-used wires on the boatside plug that lead to the peanut pad quick disconnect plug.

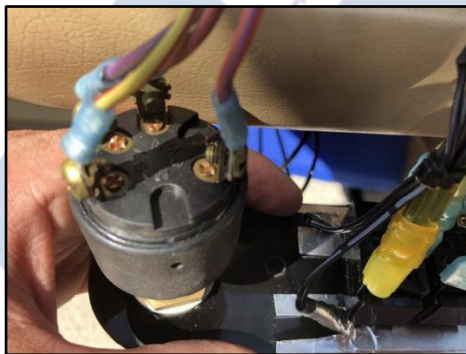


MAKING THE CONNECTIONS

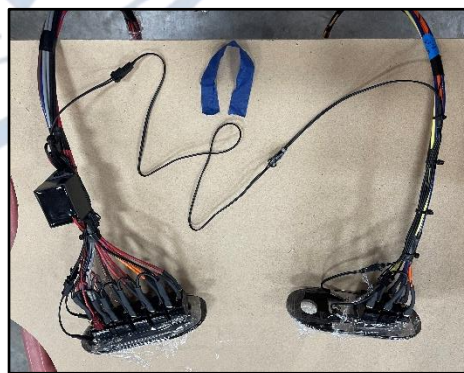
- Connect the main power lead(s) to the fuse block main terminal.



- The ignition switch will not require rewiring or modification. The kit does include a new ignition switch which should have the same terminal configuration for easy replacement.
- Connect the new extinguisher lamp (if equipped) or use the hole plug (supplied)
- Secure the harness with zip ties and make sure wires are protected from any sharp areas.



- **Note:** Connect the small black 2 pin quick connectors that are hanging loose from each switch panel harness. This feeds the backlighting to the port switch panel. They are typically secured to the harness with loose blue painters tape for easy identification.



MOUNTING THE NEW PANELS

- Secure the new panels to the dash using the included hardware.



TEST THE SYSTEM!



Verify all connections, turn on battery switch(es) and test the system.

REFERENCES / CONTACT:

Full time tech support: **321-639-2951** or sales@fpmarine.com

Installation Instructions, dash template instructions, videos and more are available online. Visit www.fpmarine.com and look through the "Library/Tech Center"

