



Bennett Marine Inc.
Technical Service Bulletin 0145-15
April 17, 2015

Component:

EIC Relay Modules, 12V only. Part # EIC101DAD

Issue:

The EIC Relay Modules (EIC101DAD), manufactured and delivered between 11/17/14 and 2/15/15, were constructed with an internal board mounted fuse that is not appropriately rated. This fuse provides circuit protection for the pump valves. Under certain conditions the valves in the pump can draw more current than the fuse is capable of conducting and, by design, the fuse will blow. There are no external signs of this failure and the fuse is not user serviceable. In the event of a failure, the EIC Relay Module (EIC101DAD) must be replaced.

Symptoms:

When and if a failure occurs, both trim tabs will become inoperable. The user may be able to hear the trim tab pump running, but the trim tabs will not move. The electronics indicator helm control will continue to accurately display the trim tab position and is not be affected by this failure.

Effected Models:

EIC Relay Modules (EIC101DAD), manufactured and shipped between 11/17/14 – 2/15/15. The effected units are potentially used in the Model & Hull #s provided by Grady White.

Bennett Marine has been supplying EIC Relay modules to Grady White since June 2009. Any vessel manufactured before 11/17/14 or after 2/15/15 will have EIC Relay modules (EIC101DAD), that are NOT affected by this service bulletin.

Identification

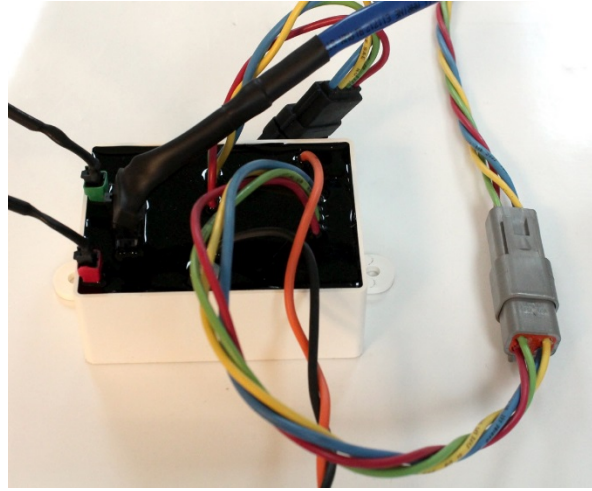
The products covered by this service bulletin can be identified as follows:

Product Markings:

EIC101DAD. The product label is located on the bottom of the unit and must be uninstalled to view.

Physical Characteristics:

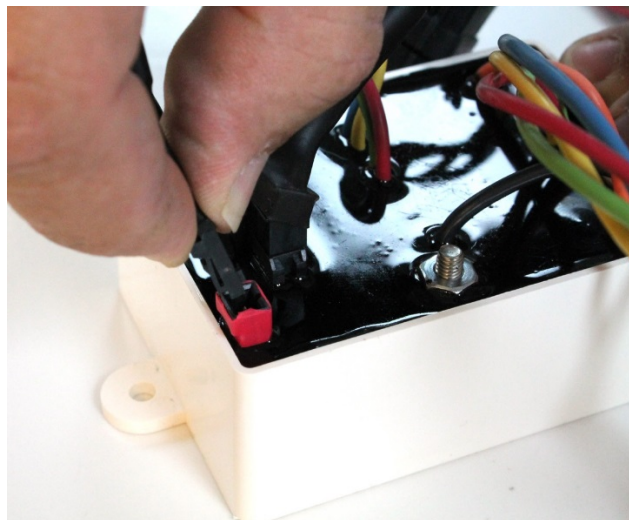
White plastic box 3- $\frac{3}{4}$ " Long, 2- $\frac{3}{4}$ " Wide, 1- $\frac{1}{2}$ " Tall
Black Potting on top of box.



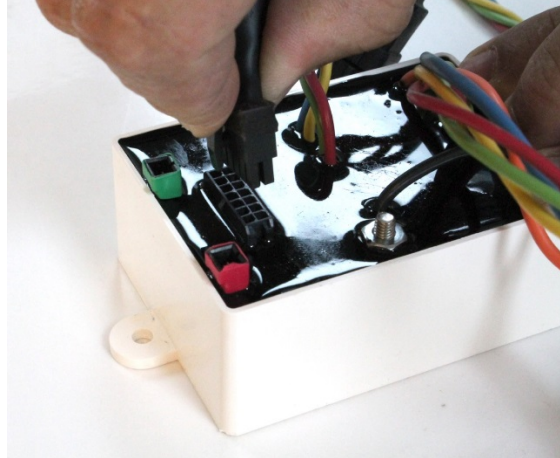
Remedy

Remove the old EIC Relay module as follows:

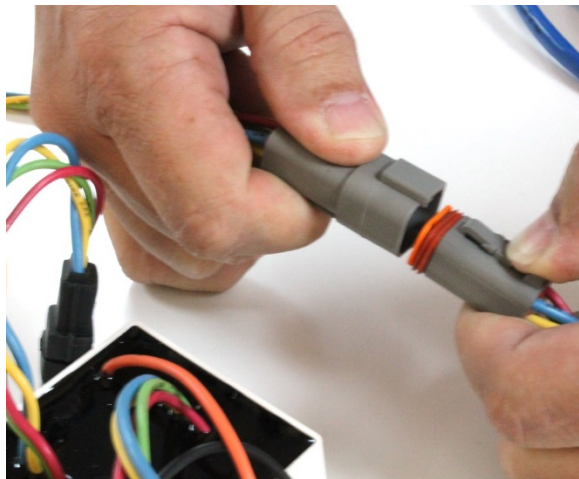
1. Locate the EIC Relay module. In most cases this will be located adjacent to the trim tab pump.
2. Remove power from the EIC Relay module by disconnecting the orange and black power wires.
3. Carefully unplug the red and green actuator sensor cables. There is a small tab on the back of the sensor cable connector. Depress this tab to remove the connector.



4. Carefully unplug the blue cable. The blue cable will have a 14 position connector. The 14 position connector has a clip on the same side as the red and green sensor connectors. Press this clip to release the connector on the blue cable.



5. Unplug the pump cable. The pump is connected to the EIC Relay module with a red/green/yellow/blue cable and a four position Deutsch connector. Press the tab on the Deutsch connector, and gently pull the two halves of the connector apart.



6. There are two screws at the small ends of the EIC Relay Module that mount the EIC Relay module to the vessel. Use a #2 Phillips screwdriver to remove the two mounting screws.

Install the new EIC Relay Module as follows:

1. Place the new EIC Relay module in a position that is close to the Trim tab pump. The new EIC Relay Module should fit in the same space as the old relay module.
2. Secure the new EIC Relay module with the two screws provided. Use a #2 Phillips screwdriver.
3. Install the red and green sensor cables into the red and green connectors on the EIC Relay Module.



4. Install the blue cable into the 14 position connector on the EIC Relay Module
5. Connect the pump cable from the EIC Relay Module to the Cable on the Trim Tab Pump. This cable will have a four position Deutsch Connector on it.
6. Reconnect power by connecting the orange and black power wires.
7. Test the EIC Relay Module by operating the Trim tabs from the helm keypad. The trim tab system will NOT need to be recalibrated after this repair. As the trim tabs are operated with the helm keypad, the helm keypad should now display movement of the trim tabs. If movement is displayed, the EIC Relay Module has been successfully replaced. If there are any issues associated with the replacement, please contact Bennett Marine's Customer Service Department at (954) 427-1400. Our Client Services support team will assist with any issues.

Returns Process

1. Identify the vessel that is covered by this service bulletin.
2. Contact Bennett Marine's Client Services Department for a replacement part. Bennett Marine can be contacted at (954) 427-1400. Please be prepared with the following information when contacting Bennett Marine:
 - a. Hull number of the vessel requiring replacement. (Replacements will not be sent without a valid hull #.)
 - b. Shipping address where the replacement unit is to be sent.
 - c. Contact name & phone number for the person to receive the new component.
3. Bennett Marine will ship a replacement EIC Relay Module (EIC101DAD), via standard UPS at no charge. Units will be shipped with a pre-paid address label and a returns form. Please use this form and label when returning the unit to Bennett Marine.
4. Bennett Marine will pay up \$150 to cover the cost of labor for the replacement for this item. Labor reimbursement will be made after receipt of the returned unit, a completed returns form, and receipt of the service invoice. Please allow 30 days for processing of payments.