



GENERAL TROUBLESHOOTING FOR 124SSR TRIM TAB SYSTEM

DETERMINING THE FAULT

For systems with the 124SSR Digital Switch there are no lights to indicate the fault, but the fault can be narrowed down depending on the functionality of the actuators.

1. If either actuator works, proceed to "Actuator Fault"
2. If neither actuator works, proceed to "Power Fault".

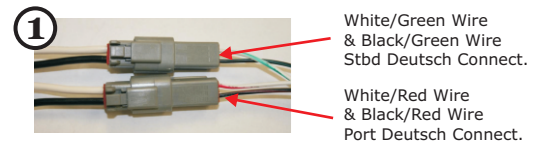


124SSR DIGITAL SWITCH

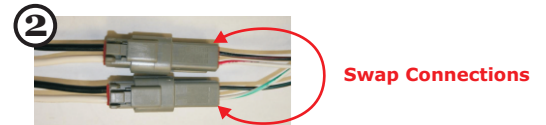
ACTUATOR FAULT

If only one actuator is not working properly, take the following steps to troubleshoot the problem:

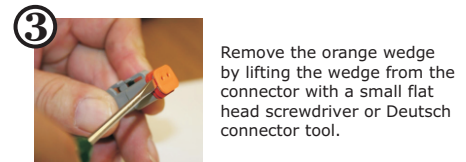
Step 1: Check to make sure that the Deutsch Connectors are firmly attached. If the connection is loose, firmly press the two connectors together.



Step 2: If fault continues, swap the connections to the actuators. Disconnect the actuators from the control box and reconnect the actuators to the opposite control box outputs.



Step 3: If fault continues, disconnect the Deutsch Connectors and remove the orange wedge. Remove the wire leads from the connector by depressing the small latches inside the connector housing and pulling on the wire leads.



Step 4: Once the wires are removed from the housing, touch the white wire leads to a Positive (+) 12V Battery Terminal and the black wire leads to a Negative (-) 12V Battery Terminal. The actuator should extend while connected to the battery. Reverse the polarity of the wire leads to the battery terminals and the actuator should retract.



Step 5: If the actuator does not extend and retract, replace the actuator. If the actuator extends and retracts properly, re-assemble the connector taking care to properly seat the wire leads into the connector housing.

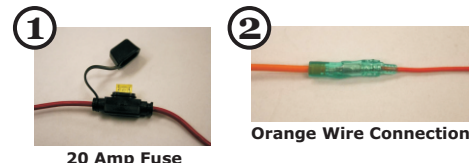


Step 5: Attach the port and starboard connectors to the system. If the fault reading continues, contact Lenco's Customer Service at: info@lencmarine.com or 772-288-2662

POWER FAULT

If neither actuator is working, take the following steps to troubleshoot the problem:

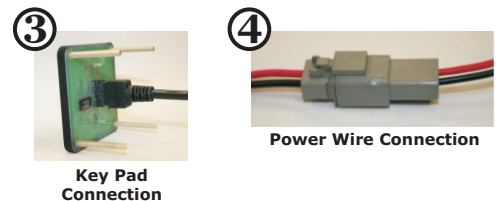
Step 1: Check the fuse or circuit breaker.



Step 2: Verify the Orange wire is connected to a 12V or 24V source or an Engine Tach Signal.



Step 3: Check the Key Pad connection.



Step 4: Verify that the power connection is firmly attached and that 12 or 24 volts is available.





GENERAL TROUBLESHOOTING FOR 123SC TRIM TAB SYSTEM

This guide is intended to provide basic functional diagnostics and will assist in determining the source of the problem. Choose Power Fault or Actuator Fault and follow the steps.

Are any lights on the Digital Switch illuminated?

NO LIGHTS


POWER FAULT



If you have no lights, proceed to **"System Inoperative"**

LIGHTS


PORT SIDE FAULT STBD SIDE FAULT BOTH SIDE FAULT



If you have any of these readings, proceed (on the next page) to **"Actuator Inoperative"**

LIGHTS

GOOD READING



If you have this reading and are still experiencing a problem, call Lenco.

SYSTEM INOPERATIVE (Power Fault)

Step 1: Operate the system in TEST MODE.

TEST MODE

Step 1: Press and hold all four keypad buttons down for approximately three seconds. The LEDs on the keypad should track down then back up and stop with the top triangular LED lit on each side.

Step 2: Press the left side button on the keypad labeled "DOWN". The starboard actuator should extend and the left side indicating lights should track.

Step 3: Press the right side button on the keypad labeled "UP". The port actuator should extend and the right side indicating lights should track.

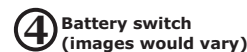
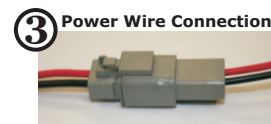
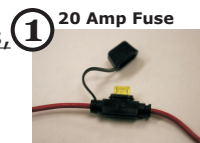
Step 4: Momentarily press all four keypad buttons down simultaneously. Both actuators should retract fully and keypad should have no indicating lights on.



- If the system works in the Test Mode there is a problem with the accessory signal. Check for proper connection to the orange accessory wire of the control box.
NOTE: Under normal operation the control box's orange accessory wire requires a 12V level or a tachometer signal to turn the control box ON (top triangular LEDs on switch are lit)
- If the system does not work in Test Mode continue to **Step 2.**

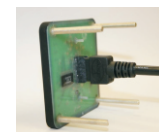
Step 2: Verify there is 12V or 24V at the Power Plug: Disconnect the Power Plug from the control box's power receptacle and measure voltage using a DC voltmeter.

- If 12V or 24V is **not** at the Power Plug across the two pins,
 - step 1: Check the fuse or circuit breaker (between battery and control box)
 - step 2: Verify that the power connection is firmly attached and that 12 or 24 volts is available.
 - step 3: Verify the Orange wire is connected to a 12 or 24V source or an Engine Tach Signal.
 - step 4: Check battery switch.



- If 12V or 24V **is** at the Power Plug across the two pins, Check the key pad connection.

Key Pad Connection



Step 3: Call Lenco Marine for further technical assistance.

Lenco actuators come with 6FT actuator cables that feature Deutsch terminations. Boat builders may use a separate wire harness connecting power and actuators to control box. If you're not certain if there is a separate connection in your boat, contact the boat manufacturer.



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Are any lights on the Digital Switch illuminated?

NO LIGHTS


POWER FAULT



If you have no lights, proceed (other pg) to **"System Inoperative"**

LIGHTS


PORT SIDE FAULT STBD SIDE FAULT BOTH SIDE FAULT



If you have any of these readings, proceed to **"Actuator Inoperative"**

LIGHTS

GOOD READING



If you have this reading and are still experiencing a problem, call Lenco.

ACTUATOR INOPERATIVE (Actuator Fault)

Step 1: Check to make sure that the Deutsch Connectors are firmly attached. If the connection is loose, firmly press the two connectors together.

Step 2: If the fault continues, swap the connections to the actuators. Disconnect actuators from control box and reconnect actuators to opposite control box outputs.

Step 3: Perform the OPERATIONAL TEST.

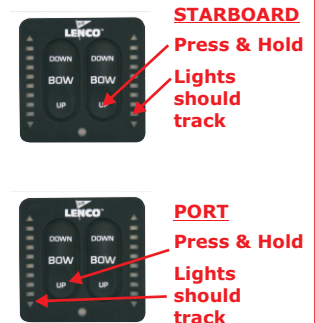
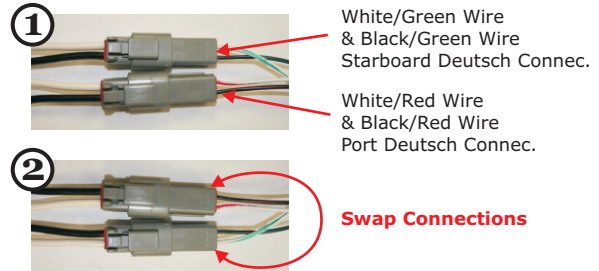
OPERATIONAL TEST

Step A: Press the left-side button on the switch labeled "DOWN". The starboard actuator should extend and the left-side indicator lights should track.

Step B: Press the right-side button on the switch labeled "UP". The port actuator should extend and the right-side indicator lights should track.

• If fault reading is present at the **opposite side** of the key pad, the actuator (or its connections) may be defective. **Proceed to Step 4.**

• If fault reading is present at the **same side** of the key pad, the control box may be defective. Call Lenco Marine for further technical assistance.

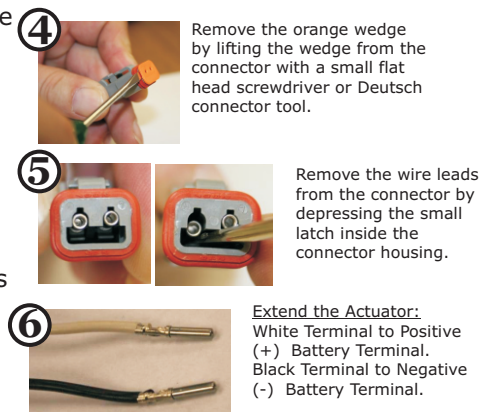


Step 4: If fault continues, disconnect the Deutsch Connectors and remove the orange wedge.

Step 5: Remove the wire leads from the connector by depressing the small latches inside the connector housing and pulling on the wire leads.

Step 6: Once the wires are removed from the housing, touch the white wire leads to a Positive (+) 12V Battery Terminal and the black wire leads to a Negative (-) 12V Battery Terminal. The actuator should extend while connected to the battery. Reverse the polarity of the wire leads to the battery terminals and the actuator should retract.

- If the actuator does not extend and retract, replace the actuator.
- If the actuator extends and retracts properly, re-assemble the connector taking care to properly seat the wire leads into the connector housing. **Proceed to Step 7.**



Step 7: Attach the port and starboard connectors to the system. If the fault reading continues, contact Lenco's Customer Service at: info@lencomarine.com or 772-288-2662