



TrimSync Quad Installation & Operating Instructions

Mounting the Device

The unit should be mounted in a dry area away from sources of heat. Mounting the unit near the trim pumps will reduce wiring complications. A paper template is included to assist in drilling the mounting holes.

The unit should be mounted with the wires facing either down or to the side. Mounting the enclosure with the wiring facing up could lead to water intrusion and will void the warranty. Any attempt to open the enclosure will also void the warranty.

Power & Ground Connections

- Connect the RED wire to a 12 Volt power source that can support at least 10 Amps. TrimSync will automatically power down after being idle for one hour and can be connected to any 12 Volt power source. Always use the supplied fuse holder and do not connect the unit directly to the battery. Connect the BLACK wire to ground.

Remove the inline fuse until step one of the calibration procedure has been performed.

Trim Switch Connections

Two options are available for the trim connections. Please refer to the contents of your kit to determine which connection method was selected or call for with any questions. The Relay Splitter method requires that a separate harness be routed through the plastic duct and into each engine's cowling. The 14-Pin Adapter method has a harness for each engine that will be routed to the helm where the DTS control/trim pad is connected to the 14-pin engine harness. Both kits include wiring harnesses with the appropriate OEM connectors for a plug-and-play installation.

Relay Splitter Harness Method

For each engine there is a pair of wires in a harness on the control unit and a correspondingly colored extension harness. Refer to the wiring diagram to make sure the wire colors match the engine position. For example, the harness for engine #1 has a gray wire for the down side of the trim switch so the trim sender harness for engine #1 must have a red black and gray wire.

- Refer to the wiring diagram to determine the proper wiring colors for each engine. Route the bare wire end of each harness starting at the engine and through the plastic wiring duct.
- Locate the three pin Weather Pack connector inside the electrical box on the starboard side of each engine that has a RED, GREEN with a White Stripe & Gray with a White Stripe wires that leads to the trim relays.
- Disconnect the factory trim relay connector and install the supplied Trim Relay Harness Adapter by plugging each end into its corresponding connector
- Connect the black wire with the ring terminal to suitable ground.
- Using the supplied heat shrink connectors, crimp the bare end of each harness to the corresponding harness on the TrimSync controller.



14-Pin Adapter Method

Included with the kit is a two-wire extension harness for each engine with a Weather Pak connector on one end. In the kit you will also find a 14-pin adapter harness.

- Starting at the helm, route each of the wiring harness to the TrimSync controller.
- Disconnect the factory 14-pin harness and install the supplied Y-adapter in between the two factory connectors.
- Using the supplied heat shrink connectors, crimp the bare end of each harness to the corresponding harness on the TrimSync controller.

Trim Sender Wiring

Each trim sender harness has a BLACK wire, plus one signal wire. For example, the sender harness that has a BLACK & GRAY is for engine #1. TrimSync is supplied with factory connectors for each engine.

- Under the engine's cowling locate the trim wire connector where it plugs into the engine's wiring harness. It is a black connector with three wires (purple / brown / yellow).
- Starting at the engine, route each trim sender harness from the cowling through plastic duct and into the boat. Make sure that the color of the signal wire matches the trim pump DOWN color for that engine, refer to the wiring diagram.
- Unplug the trim sender and plug in the supplied Trim Sender Harness Adapter with one side connecting the trim sender and the other connecting to the engine's harness.
- Cut the harness to length and connect each wire to the corresponding TrimSync harness using the supplied heat shrink butt connectors.



Calibration

WARNING - DO NOT OPERATE THE BOAT UNTIL THE CALIBRATION IS COMPLETE

Do not press the ALL button until the following procedure is followed in its entirety. A red LED indicates that there is a fault, or the calibration procedure was not properly performed.

The calibration process must be followed in the exact order below:

1. Move the engines to their full DOWN position. **Make sure the inline fuse is removed**
2. Install the inline fuse for TrimSync. When powered up for the first time the LED on the front and rear panel will be flashing green to indicate that a calibration is required. Please see the troubleshooting section if the green LED is not flashing.
3. With engines still in their full DOWN position press the ALL-DOWN button for at least two seconds. The green LEDs will stop flashing for 20 seconds and then begin flashing again to indicate that full DOWN positions have been recorded.
4. Move the engines to their full UP positions ONE AT TIME, do not use the ALL UP button. You can move each one a little at a time to prevent binding but pause at least one second in between the moves.
5. Once in the full UP position press the ALL-UP button for at least two seconds. The LEDs will now be solid green and the system is calibrated and operational. Please note: if is not possible to raise the engines completely up without interference then move them as far up as possible and then disable the trim pump motors by unplugging the trim pump relays. TrimSync needs to see the ALL button pressed and the engines not moving to properly record the up positions and complete its calibration. TrimSync will NOT record the UP position if the engines are still moving.

Once the calibration is complete it will not need to be repeated unless the boat experiences a mechanical or electrical issue that impacts the trim system. In the event of a such a repair (i.e. removing/replacing a trim sender) then the operator can force a calibration by holding the ALL UP button for ten seconds after the engines reach their full UP position. The LED will turn from solid green to flashing green and the unit will not attempt any corrections until the calibration process is performed again.

Operation

Once calibrated and the green LED is illuminated TrimSync will monitor the position of each engine and determine if a correction is required after the ALL button is pressed and released.

- TrimSync will not attempt a correction when an engine is near the upper or lower limit of its travel.
- If the operator moves an engine, then no corrections will be made until the next time the ALL button is pressed.
- In the case of any fault the LED will turn red and TrimSync will stop making any corrections. Manual trim & trim indicators will continue to operate with no impact.



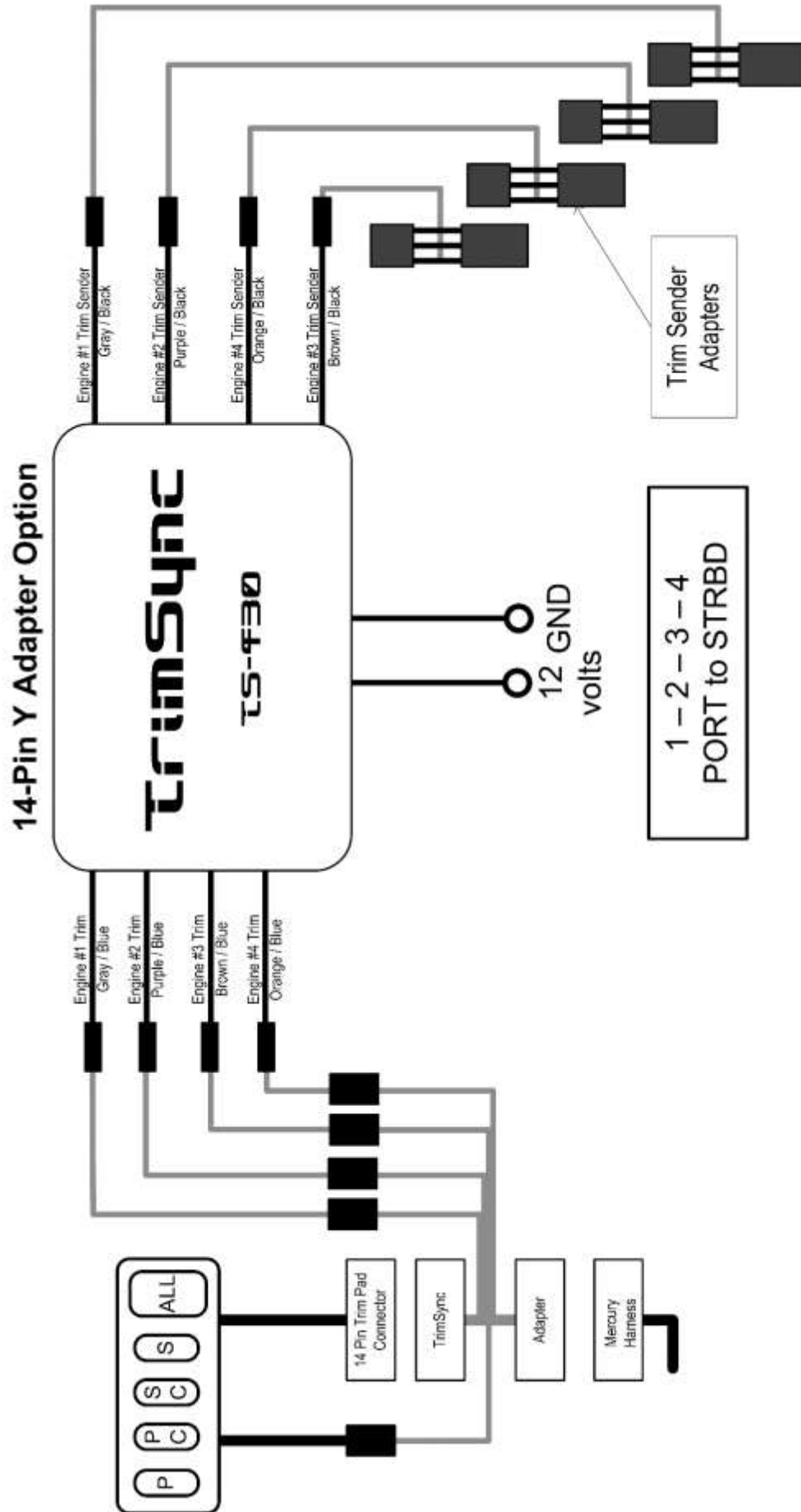
Troubleshooting

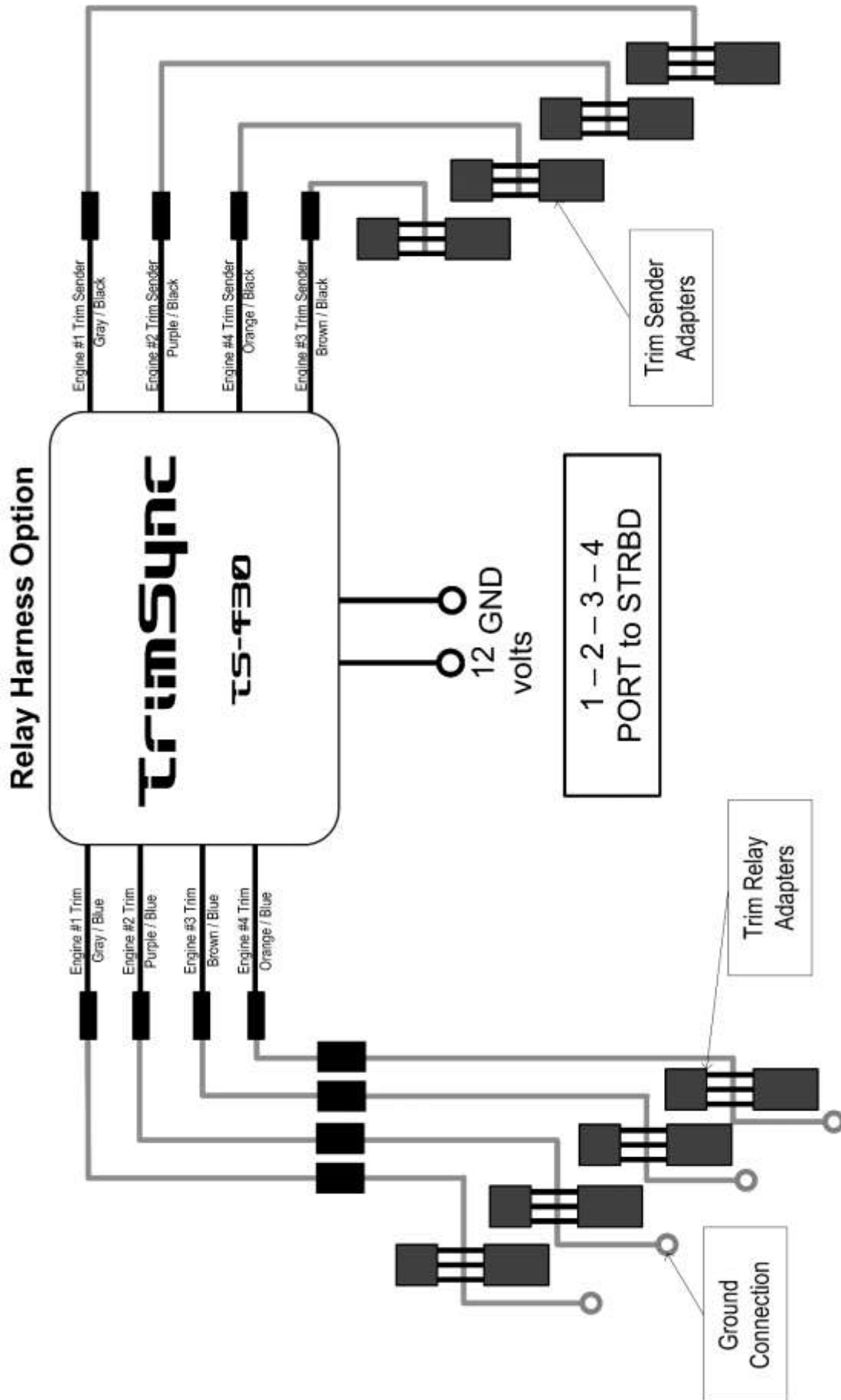
LED Indicator	Operation / Condition
Constant Green	Normal operation
Flashing Green	Calibration required
Constant Red	Engine(s) did not move during a correction. Could be failed trim sender or pump. Power cycle will reset the error.
Flashing Red	Down range exceeded or no signal from trim senders.

Manufacturer Warranty

THE MANUFACTURER OF THIS PRODUCT HAS PROVIDED YOU, THE END USER AND BUYER WITH A ONE YEAR WARRANTY FOR PRODUCT DEFECTS NOT OTHERWISE CAUSED BY YOU. THIS WARRANTY IS IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE NOT EXPRESSLY SET FORTH HEREIN AND IS, IN FACT THE ONLY WARRANTY OFFERED BY THE MANUFACTURER. MANUFACTURER SHALL IN NO WAY BE LIABLE FOR ANY LOSSES, TIME EXPENSES, INCONVENIENCE, OR INCIDENTAL, SPECIAL, PUNITIVE AND/OR CONSEQUENTIAL DAMAGES. THE PARTY'S EXPRESSLY AGREE THAT MANUFACTURER SHALL ONLY BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE PRODUCT TO THE EXTENT IT IS FOUND TO BE DEFECTIVE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS WARRANTY. BUYER WAIVES ANY RIGHT TO CLAIM ANY OTHER LOSSES OR CLAIMS FOR DAMAGES. THIS WARRANTY DOES NOT COVER AND SPECIFICALLY EXCLUDES WATER DAMAGE AND/OR FAULTY INSTALLATION. IN ADDITION, IF THE PRODUCT IS OPENED AND/OR THE SEAL TO THE PRODUCT IS OTHERWISE BROKEN, THE WARRANTY SHALL BE VOID AND OF NO EFFECT.

THE BUYER'S PURCHASE OF THE PRODUCT, AGREEMENT, AND WARRANTY SHALL BE GOVERNED BY AND CONSTRUED UNDER THE LAWS OF THE STATE OF ILLINOIS AND ANY DISPUTES UNDER THIS AGREEMENT SHALL BE LITIGATED EXCLUSIVELY IN FEDERAL OR STATE COURTS LOCATED IN COOK COUNTY, ILLINOIS. THE SELLER SHALL BE ENTITLED TO RECOVER FROM BUYER ITS REASONABLE COSTS AND ATTORNEYS' FEES RELATED TO ANY LAWSUIT OR CLAIM BY AND/OR BETWEEN BUYER AND SELLER.







Mounting Template

