



Installation and Troubleshooting Guide



This installation is to be completed by an Authorized Dealer or Professional Service Technician. For questions regarding installation or warranty, call CDI Tech Support at 866-423-4832. Do not return to the Dealer or Distributor where the part was purchased. Contact CDI Electronics Directly for Return Material Authorization.

CDI P/N: 414-2770

This harness replaces P/N's: 37628, 38072, 38910, 39177, 45070, 46285, 46905, 48150, 49370, 52769, 52770, 52771, 52820, 56370, 5974, 84-46463, 84-62534, 84-66055, 84-66297, 84-69236, 84-71443, 84-73826, and 84-74904.

Warning! This product is designed to be installed by a professional marine mechanic. CDI Electronics cannot be held liable for injury or damage resulting from improper installation, abuse, neglect, or misuse of this product.

Fuses are not included with this harness.

INSTALLATION

1. Disconnect the battery cables from the battery. Disconnect the Negative cable first to prevent arching.
2. Take pictures or mark where each wire goes to aide in installation of the new harness.
3. Disconnect the engine harness from the boat side harness.
4. Disconnect the wires from the old harness. Make note of where each wire goes prior to removing the wires.
5. Remove the old harness from the engine.
6. Install the new harness from CDI Electronics, routing the wires the same way as the old harness.
7. Connect the new harness to the engine.
8. Connect the battery cables of the new harness to the battery, Positive wire first to prevent arching.

NORMAL CONNECTIONS FOR BATTERY TYPE IGNITIONS:

The part numbers for the Switchboxes used for these Ignition systems are as follows:

<u>Mercury</u>	<u>CDI Electronics</u>
332-2803	114-2803
332-2986	114-2986
332-4796	114-4796
337-4411	N/A
Points/Condenser	N/A

<u>Wire Color</u>	<u>Function/Connection</u>
Red (4 AWG)	Battery (+) Positive Terminal
Black (4 AWG)	Battery (-) Ground Terminal
Black (18 AWG)	Harness ground wire. Connects to the Negative terminal on starter solenoid.
Red (18 AWG in Harness)	POS (+) of Rectifier (may not be needed if no battery charging).
Yellow	Exciter wire. Connects "S" terminal on Starter Solenoid.
Gray	Choke wire. Connects to choke solenoid.
Orange	Not used on this application, tape off.
White	12 V Key on power. Connects to White terminal on Switchbox.
Yellow/Red Stripe (2)	Jumpers for Rectifier to Stator terminal block
Brown	Tachometer Signal. Connect to either the Switchbox or the Rectifier Yellow wire post.
Red Jumper	Connect between Rectifier Positive post and the Red terminal on the Switchbox.

CDI Electronics, LLC • 353 James Record Road SW • Huntsville, AL 35824 USA

Web Support: www.cdielelectronics.com • Tech Support: 1-866-423-4832 • Order Parts: 1-800-467-3371

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NORMAL CONNECTIONS ON ALTERNATOR DRIVEN IGNITIONS

WARNING! DO NOT CONNECT ANY 12 VDC (RED WIRE) TO THE SWITCHBOXES LISTED BELOW AS SEVERE DAMAGE WILL RESULT.

Alternator driven ignition systems (CDI Ignition systems) use a Stator driven ignition system that does not require battery voltage to operate (aside the starter function and tilt/trim function). These ignitions systems use a Stator that generates the voltage that the Ignition coils require to spark. The part numbers for the Switchboxes used for these Ignition systems are as follows:

Mercury	CDI Electronics
332-4172	N/A
332-5772	114-5772
332-7778	114-7778
332-4911	114-4911
333-3213	N/A
338-4733	114-4911
339-5287	114-6222
339-6222	114-6222

Wire Color	Function/Connection
Red (4 AWG)	Battery (+) Positive Terminal
Black (4 AWG)	Battery (-) Ground Terminal
Black (18 AWG)	Harness ground wire. Connects to the Negative terminal on starter solenoid.
Red (18 AWG in Harness)	POS (+) of Rectifier (may not be needed if no battery charging)
Yellow	Exciter wire. Connects "S" terminal on Starter Solenoid.
Orange	Kill Circuit for ADI Ignition (May be Black/Yellow). Connects to Switchbox kill Circuit.
Gray	Choke wire. Connects to choke solenoid
Black Jumper	Connects from Switchbox to Engine Ground.
Brown	Tachometer signal wire. Connects to the Yellow post of the Rectifier.
Yellow/Red Stripe (2)	Jumpers for Rectifier to Stator (If needed)
White	12 V key on power. Not used, tape off.
Red Jumper	No connection.