Installation and Troubleshooting Guide

NOTE: 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: 184-0002 Ignition Coil

This unit replaces P/N: 339-880615T01, 339-8M0039809 and 339-8M6002327.

WARNINGS:

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

INSTALLATION

1. Disconnect the 3 pin connector going to the defective ignition coil. Be careful and not damage the connector.
2. Remove and retain the mounting bolt.
3. Using a slight twisting motion, pull the old coil out.
4. Inspect the hole in the cover and make sure none of the old ignition coil remains in the hole.
5. Insert the new Ignition Coil into the hole and make sure it is fully seated. (Note: The mounting hole should be very close to flush up against the cover).
6. Use the old mounting bolt and torque to the correct specifications. Please refer to the appropriate service manual for your engine.
7. Apply a small amount of dielectric grease to the rubber seal of the electrical connector and plug it into the new Ignition Coil.

TROUBLESHOOTING

NO FIRE ON ANY CYLINDER:

1. Back probe the Red/Yellow wire in the 3 pin connector going to one of the Ignition Coils. Be careful to not damage the connector. There should be 12V at key on.
2. If there is not 12V on the Red/Yellow wire,
    A. Check the fuse block for a blown fuse.
    B. Check the main power relay. You should feel it click when the keyswitch is turned on. If there is no click, verify both of the Red wires have a constant 12V on them. Short the Yellow/Purple Stripe to engine ground. If the relay now works, check for spark. If the engine now has spark, swap the PCM with a known good unit if possible. Verify the PCM has 12V going to it on the Purple/White wire from the key switch.
    C. If the main power relay works, you should have 12V on the Red/White wires going to the fuse block.
    D. If you have 12V on the Red/White going into fuse block, check the Red/Yellow wires. If there is not the 12V expected, the fuse holder may be damaged or a defective fuse.
3. Clean and inspect all ground wires for the ignition coils and the engine. Pull on the Black wires and see if the wires pop out of the connector. If so, replace the ring terminals with individual ring terminals.
4. Check the resistance between pins A and B. You should read approximately 350 Ω (ohms).

NO FIRE ON ONE CYLINDER:

1. Disconnect the 3 pin connector going to the suspect Ignition Coil. Be careful to not damage the connector.
2. Remove and retain the mounting bolt.
3. Using a slight twisting motion, pull the coil out.
4. Re-connect the 3 pin connector to the suspect ignition coil.
5. Install a spark tester into the suspect ignition coil (CDI 511-9766 Spark Tester is recommended).
6. Make sure the spark gap tester is connected to a good secure engine ground. SERVICE NOTE: This coil is capable of producing up to a 40,000 volt spark. Keep hands and any fuel source away from the spark.
7. Use a remote starter button or use a diagnostic program like CDI's M.E.D.S. Software and fire the coil.
   If the coil fires, replace the sparkplug (make sure the sparkplug number is correct according to the EPA Label on the engine). If the coil does not fire, swap the coil with another cylinder and repeat the test. If the second coil fails to fire on the same circuit yet does fire on another, swap the PCM with a known good unit if possible.
8. If the coil fires, replace the sparkplug (make sure the sparkplug number is correct according to the EPA Label on the engine).

NOTE: 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**.

9. If the coil does not fire, test as follows (Bearing in mind, some meters may require you to reverse the test leads in order to get the same readings):

Red Meter Lead	Black Meter Lead	Ohms
Terminal C (Switching Circuit)	Terminal B	315-385 Ω
Terminal C	Terminal A (Power Circuit/12V)	1.75-3.5 M Ω
Terminal C	Sparkplug Terminal (Spring)	Open
Terminal B	Terminal C (Switching Circuit)	315-385 Ω
Terminal B	Secondary Ground Tab	Shorted
Terminal B	Terminal A	1.75-3.5 M Ω
Terminal A	Terminal B	Open
Terminal A	Terminal C	Open
Terminal A	Sparkplug Terminal	Open
Sparkplug Terminal	Terminal A	Open
Sparkplug Terminal	Terminal B	Open
Sparkplug Terminal	Terminal C	Open

10. Swap the coil with another cylinder and test for spark. If the second coil fails to fire on the same circuit, yet does fire on another, swap the PCM with a known good unit if possible.
11. If the ignition coil does not fire when swapped to another cylinder, replace it.