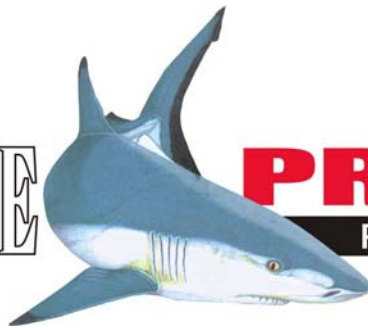


# QUICKSTRIKE



# PRO SERIES

PERFORMANCE IGNITION PRODUCTS

## INSTALLATION/TROUBLESHOOTING GUIDE

**CDI P/N: 213-6292K 1**

**This unit replaces the following P/N's: 586015, 586098 and 586292 for Racing Applications**

**(Includes the 113-6292 Power Pack, 133-6343 Sensor and 931-4922 Spark Plug Wire Set)**

**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.

**SERVICE NOTE:** This unit requires special spark plug wires and spark plugs. Please use the Factory Recommended Champion QL78YC (0.30 Gap) Spark Plugs and the Gray spark plug wires included with the kit. DO NOT OPERATE ENGINE WITH PLASTIC ENCODER COVER OFF OF THE ENGINE.

### Installation

1. Disconnect the battery cables.
2. Remove timing wheel cover, power pack cover and regulator/rectifier cover (Between the timing cover and the power pack).
3. Disconnect the stator wire connector from the power pack.
4. Disconnect the harness wire connector from the power pack.
5. Disconnect the timing wire connector from the sensor.
6. Disconnect the spark plug wires from the spark plugs.
7. Unbolt and remove the ignition coils and old power pack.
8. Check for DC voltage on the kill (stop) wires (usually Black/Yellow) with the key-switch in the on and off position. At no time should you see over 2 volts DC on this wire as severe damage to the power pack can occur.
9. Disconnect the ignition coils from the old power pack and reconnect them to the new power pack.
10. Install the new power pack and ignition coils. (Take care not to over-torque the mounting bolts, OEM specification calls for 50-95 in lbs of torque). Make sure the RF Noise Shield is between the ignition coils and the power pack.
11. Connect the stator and harness connectors to the power pack. Use a small amount of dielectric silicone grease on the connector seal – Do not put any inside the sockets.
12. Connect the harness wire connector to the power pack.
13. Connect the timing wire connector to the sensor.
14. Connect all spark plug wires to a spark gap tester.
15. Disconnect the Port temperature switch's Tan and White/Black wires.
16. Connect a jumper wire to the Tan wire and short it to engine ground.
17. Connect a timing light to the # 1 spark plug wire.
18. Connect the battery cables.
19. Disconnect the engine harness from the boat harness.
20. Using a piston stop tool or dial indicator, verify the TDC timing pointer's accuracy. Reset as needed to correct.
21. Use a remote starter (511-6996 is recommended) and verify the ignition timing as follows:

<u>ENGINE</u>	<u>IDLE Timing</u>	<u>WOT Timing</u>
90/115	4-6 Deg ATDC	20 Deg BTDC

NOTE: Adjust the idle timing to adjust the idle speed.

22. Reconnect the engine harness.
23. Replace the timing wheel cover, power pack cover and regulator/rectifier covers.
24. Connect the spark plug wires to the spark plugs.
25. Disconnect the jumper wire from the Tan temp sensor wire.
26. Connect the Tan and White/Black temp switch wires to the temperature switch on the Port side of the engine.
27. Using a motor flushing device or in the water, start and run the engine until it reaches operating temperature.
28. Verify that the engine's QuickStart function is working by watching for the drop in engine RPM as the engine temperature goes above 105 Deg F and drops the timing back to running mode.
29. Stop the engine and restart it. You should have approximately a 5-10 second period of QuickStart timing advance before the engine settles down to a normal idle.

30. Disconnect the Port temperature switch's Tan and White/Black wires.
31. Connect a jumper wire to the Tan wire and short it to engine ground.
32. Using a motor flushing device or in the water, start and run the engine . Make sure the over-temp alarm is working and try to rev the engine up. You should not be able to exceed 2600 RPM as the engine should go into S.L.O.W. function at 2500 RPM. **Turn the engine off and wait 10 seconds for the processor inside the power pack to reset before continuing.**
33. Disconnect the jumper wire from the Tan temperature sensor wire.
34. Connect Tan and White/Black temperature switch wire to the temperature switch on the Port side of the engine.

### **Troubleshooting**

#### **No Fire at All:**

1. Disconnect the 4 wire harness connector from the power pack. If the engine now fires, check the kill circuit and harness.
2. Check the stator resistance and DVA output to the pack. 150V DVA minimum from Brown to Brown/White (950-1250 ohms) and 12-24V DVA from Orange to Orange/Black (50 to 60 ohms).
3. Check the 12V power at cranking on the yellow/red wire going into the power pack. You should read above 11.5V. A low reading indicates a problem in the harness, battery or starter.
4. Check the DVA output from the power pack to the ignition coils. If it reads below 105V, recheck using a Pack Load Resistor. If the power pack output is now OK, the power pack is good but the ignition coils are likely bad.

#### **Will not start when hot:**

1. Check the stator resistance and DVA output to the pack. 150V DVA minimum from Brown to Brown/White (450-600 ohms) and 12-24V DVA from Orange to Orange/Black (50 to 60 ohms).
2. Test the Trigger sensor while hot using the 511-4017 Sensor Tester or substitute another sensor for testing.