



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: 173-3668 Stator 6 Cylinder

This stator replaces P/N's: 582574, 582847, 583050, 583274 and 583668, 763785.

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: Discoloration of all the battery windings is an indication of a problem in the rectifier/regulator. Discoloration of only one post of the battery windings indicates a problem in the stator.

INSTALLATION

1. Remove the negative battery cable.
2. Remove the flywheel.
3. Disconnect the original stator wires.
4. Remove the original stator, saving the original bolts.
5. Install the new stator using the original bolts with a good thread-locker applied (CDI 989-3977 is recommended) to the bolts and tightened to the factory torque specifications.
6. Connect the new stator to the power pack.
7. Connect the new stator to the regulator/rectifier (ignore any stripes on the rectifier as the new stator does not require the Yellow wires to be connected to a particular rectifier wire).
8. Replace the flywheel according to the service manual.
9. Clean all battery cable connections, both on the battery and the engine.
10. Replace the battery cable.

TROUBLESHOOTING

NOTICE: Any sign of leakage out of the high voltage coils or bubbling around the battery charge windings indicate a bad stator. Check for burned marks on each pole. If a problem is found on the battery windings, we recommend the rectifier/regulator be closely checked or replaced.

NO FIRE ON ANY CYLINDER:

1. Disconnect the stop (kill) wire from the power packs and retest. If the ignition now has spark, check the stop circuit.
2. Check resistance between the Brown/Yellow and the Brown wires. You should read approximately 900-1100 ohms. DVA (peak voltage) should be 150v or more while connected to the power pack for each.
3. Inspect the flywheel outer and trigger magnets to see if they are loose or broken.
4. Disconnect the regulator/rectifier and retest. If the fire returns, replace the regulator/rectifier.

NO FIRE ON ONE BANK:

1. Disconnect the spark plug wires from the spark plugs and install a spark gap tester (511-9766 is recommended) on all cylinders.
2. Swap the power packs from side to side and see if the problem moves. If it does, the power pack not sparking is likely bad.
3. Check the trigger leads and compare the readings for both sides. The readings should be very close.
4. Disconnect the stop wires and separate them. If the pack that had no spark now has spark, replace the pack that initially had spark.
5. Check resistance between the Brown/Yellow and the Brown wires. You should read approximately 900-1100 ohms. DVA (peak voltage) should be 150v or more while connected to the power pack for each.

HIGH SPEED MISS-FIRE OR WEAK HOLE SHOT:

1. Connect DVA meter between the Brown/Yellow and the Brown wires and do a running test on each set. AT NO TIME SHOULD THE VOLTAGE EXCEED 400v. If it does, the regulator circuit in the power pack is bad. The voltage should show a smooth climb and stabilize, gradually falling off at high RPM (above 5000). If you see a sudden drop in voltage right before the miss becomes apparent, the problem is likely in the stator.
2. Disconnect the rectifier and retest. If the problem disappears, replace the rectifier and retest.

OVERCHARGING THE BATTERY:

1. Using a voltmeter, check the voltage on the battery and compare it to the voltage on the red wire connected to the starter solenoid to engine ground.
2. If the voltage is high on the engine compared to the voltage on the battery, do a voltage drop test and try to isolate the area where the problem is.
3. If the voltage is the same on the battery and the engine, but is over 15.5 volts at 4500 RPM, replace the battery with a known good high quality MARINE FLOODED CELL battery.

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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