

Installation and Troubleshooting Guide All rights reserved. Reproduction or use of content, in any manner, without express written permission by CDI Electronics, Inc., is prohibite



CDI P/N: 173-3724

This stator replaces P/N's: 581957, 582506, 582730, 583119, 583644, 583724 and 583830.

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 torgue specifications.
- 6. Connect the new stator to the power pack. NOTE: If the original stator had a 3 pin connector, replace the 2 pin connector on the Brown wires with the 3 pin connector.
- 7. Connect the new stator to the regulator/rectifier (ignore any stripes on the rectifier as the new stator does not reguire 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

NO FIRE ON ANY CYLINDER:

- Disconnect the kill wire and retest. If the ignition now has fire, check the kill circuit. 1.
- Check the resistance between the brown and brown/yellow wires. You should read approximately 500-650 ohms. 2. DVA (peak voltage) should be 150v or more.
- Inspect the flywheel outer and trigger magnets to see if they are loose or broken. 3.
- Disconnect the rectifier/regulator and retest. If the fire returns, replace the rectifier/regulator. 4.

NO FIRE ON ONE CYLINDER:

- Disconnect the spark plug wires from the spark plugs and install a spark gap tester (511-9766 is recommended) on all 1. cylinders.
- 2. Swap the brown wire and brown/yellow wire and see if the problem moves. If it does, the stator is likely bad.
- Check the power pack and trigger. З.

HIGH SPEED MISS-FIRE OR WEAK HOLE SHOT:

- 1. Connect a DVA meter between the brown and brown/yellow wires in each set and do a running test. 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.
- Disconnect the rectifier and retest. If the problem disappears, replace the rectifier and retest to verify that the problem 2. was in the rectifier.

OVER CHARGING THE BATTERY:

- Using a voltmeter, check the voltage on the battery and compare it to the voltage on the red wire connected to the starter solenoid 1. 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.
- 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 3. high quality MARINE FLOODED CELL battery.
- 4. A continued high voltage reading may indicate the need for a regulator/rectifier combination instead of a rectifier only.