



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 Technical Support at (800) 648-3976. Do not return to the Dealer or Distributor where the part was purchased. Contact Sierra Directly for Return Goods Authorization.

SIERRA P/N: 18-99283

This stator replaces P/N's: 583013, 583118, 583669, and 763766.

This unit replaces CDI P/N: 173-3669

WARNING! This product is designed to be installed by a professional marine mechanic. Dometic 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 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 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 500-650 ohms. DVA (peak voltage) should be 150v or more while connected to the power pack for each wire.
3. Inspect the flywheel outer and trigger magnets to see if they are loose or broken.
4. Disconnect the rectifier and retest. If the fire returns, replace the rectifier.

NO FIRE ON ONE CYLINDER:

1. Disconnect the spark plug wires from the spark plugs and install a spark gap tester on all cylinders.
2. Swap the power packs Orange primary wires to the ignition coils from one coil to another coil and see if the problem moves. If it does not, replace the ignition coil. If it does move, switch the timer base (trigger) wires to the power pack and see if the problem moves. If it does, replace the timer base. If not, replace the power pack.
3. Check the trigger leads and compare the readings for all 4 sensor leads from the White common wire. The readings should be very close.

HIGH SPEED MISS-FIRE OR WEAK HOLE SHOT:

1. Connect a 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.

OVER CHARGING 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.
4. A continued high voltage reading may indicate the need for a regulator/rectifier combination instead of a rectifier only.

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Web Support: www.catalog.sierraparts.com • Technical Support and Customer Service (800) 648-3976

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