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> Rareelectrical Stator Instruction Manual for Craftsman Riding Mowers with Kohler Engines (15 Amp Alternator Charging Coil)

Rareelectrical 435-083A7

Rareelectrical Stator Instruction Manual

15 AMP ALTERNATOR CHARGING COIL FOR CRAFTSMAN RIDING MOWERS WITH KOHLER ENGINES

Important Safety Information

Always disconnect the battery before performing any electrical work on your equipment. Wear appropriate personal protective equipment, including safety glasses and gloves. Consult your equipment's service manual for specific safety procedures and torque specifications.

⚠ WARNING: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Product Overview

The Rareelectrical Stator (Model 435-083A7) is a replacement 15 Amp alternator charging coil designed for various Craftsman riding mowers equipped with Kohler 8-25HP engines. This component is crucial for generating alternating current (AC) which is then converted by a voltage regulator/rectifier to direct current (DC) to charge the battery and power the electrical system of your equipment.



Image: Rareelectrical 15 Amp Stator Charging Coil. This image shows the circular stator coil with copper windings and electrical leads, ready for installation.

Compatibility

This stator is compatible with a wide range of equipment and replaces several OEM part numbers. Please verify your original part number to ensure proper fitment.

Compatible Equipment:

- **Ariens:** 935025, 935026, 935031, 991153, 991155 Zero Turn Mowers
- **Bobcat:** 942102, 942103, 942104, 942105, XM5412, XM5421 Commercial Mowers
- **Craftsman:** 247xxx Series Lawn Tractors, 917250482, 917251370, 917256540, 917258542, 917258872, 917258904, 917259542, 917259550, 917271011, 917273011 Riding Mowers and Tractors
- **Cub Cadet:** 13APA1CT010, 13AQA1CT010

Compatible Kohler Engines:

- **Command Series:** CH11-CH15, CH18-CH25, CV11-CV15, CV18-CV22, CV25, CH430-CH940, CV430-CV980
- **K Series:** K161, K181, K241, K301, K321, K341, K482, K532, K582
- **Courage Series:** SV590-SV840

- **7000 Series:** KT725-KT745

Replaces Part Numbers:

- **Kohler:** 237878-S, 24-085-01-S, 24-085-03-S, 41-085-07, 234859, 237329, 237330, 237331, 237399, 237716-S, 47-085-01, 47-085-11, 54-755-09-S, A-237329

Setup and Installation

This stator is designed for direct drop-in replacement. No wiring modification is typically required. Always refer to your specific engine or equipment service manual for detailed installation steps and safety precautions.

1. **Safety First:** Disconnect the negative battery cable from the battery to prevent accidental starting or electrical shorts.
2. **Access the Stator:** Depending on your engine model, you may need to remove the flywheel, cooling shroud, or other components to access the existing stator.
3. **Disconnect Wiring:** Carefully disconnect the electrical leads from the old stator. Note their routing and connection points.
4. **Remove Old Stator:** Unbolt and remove the old stator from its mounting location.
5. **Install New Stator:** Position the new Rareelectrical stator in place and secure it with the appropriate fasteners. Ensure it is seated correctly.
6. **Connect Wiring:** Reconnect the electrical leads from the new stator to the corresponding points. Ensure connections are secure and free from corrosion.
7. **Reassemble:** Reinstall any components removed to access the stator (flywheel, shroud, etc.). Ensure all fasteners are tightened to the manufacturer's specifications.
8. **Reconnect Battery:** Reconnect the negative battery cable.
9. **Test System:** Start the engine and check the battery voltage with a multimeter. It should be within the normal charging range (typically 13.5-14.5 volts DC) when the engine is running at operating speed.

Note: This stator requires a compatible voltage regulator/rectifier for a complete charging system. Ensure your system has a functional regulator.

Operating Principles

The stator is a stationary electrical component that works in conjunction with the rotating flywheel (which contains magnets) to generate electricity. As the engine runs, the magnets on the flywheel pass over the stator's copper windings, inducing an alternating current (AC). This AC power is then sent to the voltage regulator/rectifier, which converts it to direct current (DC) and regulates the voltage to safely charge the battery and power the equipment's electrical accessories.

A properly functioning 15 Amp stator ensures a consistent and sufficient power supply for your battery and electrical system, preventing discharge and ensuring reliable starting and operation.

Maintenance

The stator itself is generally a maintenance-free component. However, regular inspection of the charging system can help prolong its life and ensure optimal performance:

- **Wiring Inspection:** Periodically check all wiring connections related to the stator and voltage regulator for signs of corrosion, fraying, or loose connections.

- **Cleanliness:** Ensure the area around the stator and flywheel is free from debris, dirt, and grass clippings, which can impede cooling and affect performance.
- **Battery Health:** A weak or failing battery can put additional strain on the charging system. Ensure your battery is in good condition and properly charged.
- **Voltage Regulator:** The voltage regulator works hand-in-hand with the stator. If charging issues persist after stator replacement, inspect the voltage regulator.

Troubleshooting

If you experience issues with your charging system after installing the new stator, consider the following:

- **No Charge or Low Charge:**
 - Verify all wiring connections are secure and correct.
 - Test the voltage regulator/rectifier. A faulty regulator will prevent proper battery charging even with a good stator.
 - Check for continuity in the stator windings and ensure no shorts to ground (refer to engine service manual for specific resistance values).
 - Inspect the flywheel magnets for damage or demagnetization.
- **Overcharging:**
 - Overcharging is almost always an indication of a faulty voltage regulator/rectifier, not the stator. Replace the regulator if overcharging occurs.
- **Intermittent Charging:**
 - Check for loose or corroded connections in the charging circuit.
 - Inspect for damaged wiring insulation that could cause intermittent shorts.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified service technician.

Specifications

Feature	Specification
Product Type	Stator Charging Coil
Output	15 Amp
System Voltage	12V
Engine Range	Kohler 8-25HP
Compatible Kohler Series	CH, CV, K, SV, KT
Manufacturer Part Number	435-083A7
Dimensions (approx.)	5.7 x 5.6 x 2.3 inches
Weight (approx.)	2 pounds

Warranty and Support

For warranty information or technical support regarding your Rareelectrical Stator, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer: RAREELECTRICAL

Brand: Rareelectrical

For further assistance, please visit the [Rareelectrical Store on Amazon](#).