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› Stens 435-281 Alternator for Kubota L47 and M62 TLB Tractors User Manual

Stens 435-281

Stens 435-281 Alternator User Manual

For Kubota L47 and M62 TLB Tractors (Replaces Kubota 19260-64013)

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Stens 435-281 Alternator. This alternator is designed as a direct replacement for Kubota part number 19260-64013 and is compatible with Kubota L47 and M62 TLB tractor models. Please read this manual thoroughly before attempting any installation or service.

2. SAFETY INFORMATION

WARNING: Always disconnect the battery's negative terminal before working on the electrical system of any vehicle or equipment to prevent electrical shock or damage.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the engine is off and cooled down before beginning work.
- Avoid contact with hot engine components.
- Do not attempt to repair the alternator yourself if you are not qualified. Seek professional assistance.
- Keep children and pets away from the work area.

3. PRODUCT COMPONENTS

The Stens 435-281 Alternator includes the following key components:

- Alternator Unit (Silver finish)
- Integrated Pulley
- Internal Voltage Regulator



Figure 1: Stens 435-281 Alternator. This image displays the Stens 435-281 Alternator, a silver-colored unit with a pulley, designed for Kubota L47 and M62 TLB tractors.

4. SETUP AND INSTALLATION

Installation of an alternator requires mechanical and electrical knowledge. If you are not confident in your abilities, it is highly recommended to seek professional installation.

General Installation Steps:

1. **Preparation:** Park the tractor on a level surface, engage the parking brake, and turn off the engine. Allow the engine to cool.
2. **Disconnect Battery:** Disconnect the negative (-) battery cable first, then the positive (+) cable.
3. **Access Alternator:** Locate the alternator on the engine. You may need to remove other components (e.g., belts, covers) to gain access.
4. **Remove Drive Belt:** Loosen the tensioner pulley and remove the serpentine or V-belt from the alternator pulley.
5. **Disconnect Wiring:** Carefully disconnect all electrical connections from the old alternator. Note their positions

for reinstallation.

6. **Remove Old Alternator:** Unbolt the mounting bolts holding the old alternator in place and remove it from the engine compartment.
7. **Install New Alternator:** Position the new Stens 435-281 Alternator in the mounting brackets. Secure it with the mounting bolts, but do not fully tighten yet.
8. **Connect Wiring:** Reconnect all electrical wires to the new alternator in their correct positions. Ensure connections are secure.
9. **Install Drive Belt:** Route the drive belt over the alternator pulley and other pulleys. Adjust the tensioner to achieve the correct belt tension according to your tractor's service manual. Fully tighten the alternator mounting bolts.
10. **Reconnect Battery:** Reconnect the positive (+) battery cable first, then the negative (-) cable.
11. **Test:** Start the tractor and check the dashboard for any battery warning lights. Verify that the charging system is functioning correctly, ideally with a voltmeter.

Refer to your specific Kubota L47 or M62 TLB tractor service manual for detailed, model-specific installation procedures and torque specifications.

5. OPERATING INSTRUCTIONS

The alternator operates automatically once the engine is running. Its primary function is to generate electrical power to recharge the vehicle's battery and supply power to the electrical systems (lights, accessories, etc.).

- Ensure all electrical connections are secure and free from corrosion.
- Monitor your tractor's dashboard for any battery or charging system warning lights. A lit warning light indicates a potential issue with the charging system.
- Avoid running the engine with a loose or damaged alternator belt, as this will prevent proper charging.

6. MAINTENANCE

Regular inspection and maintenance can extend the life of your alternator and ensure reliable operation of your tractor's electrical system.

- **Belt Inspection:** Periodically check the alternator drive belt for cracks, fraying, or excessive wear. Ensure it has the correct tension. Replace worn belts promptly.
- **Wiring Inspection:** Inspect all electrical connections to the alternator for corrosion, looseness, or damage. Clean any corrosion and ensure connections are tight.
- **Cleanliness:** Keep the alternator free from excessive dirt, oil, and debris. A clean alternator can dissipate heat more effectively.
- **Battery Health:** A healthy battery is crucial for the alternator's longevity. Ensure your battery is in good condition and properly charged.

7. TROUBLESHOOTING

If you experience issues with your tractor's charging system, consider the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Battery warning light on dashboard	Loose or worn alternator belt, faulty alternator, wiring issue, dead battery	Check belt tension and condition. Inspect wiring. Test battery and alternator.
Battery not charging	Faulty alternator, loose/corroded battery terminals, worn belt, blown fuse	Inspect and clean battery terminals. Check belt. Test alternator output. Check relevant fuses.
Dim lights or electrical accessories	Low alternator output, weak battery, excessive electrical load	Test alternator output. Check battery health. Reduce unnecessary electrical load.
Squealing noise from engine	Loose or worn alternator belt	Inspect and adjust belt tension or replace the belt.

If troubleshooting steps do not resolve the issue, consult a qualified mechanic or contact Stens customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	435-281
Replaces OEM Part	Kubota 19260-64013
Compatibility	Kubota L47 and M62 TLB tractors
Includes	Pulley, Internal Regulator
Product Dimensions	7 x 7 x 7 inches
Item Weight	9.13 pounds
Manufacturer	Stens
Country of Origin	United States

9. WARRANTY INFORMATION

Stens products are manufactured to high-quality standards. For specific warranty terms and conditions related to your 435-281 Alternator, please refer to the official Stens warranty policy available on their website or contact their customer service department. Keep your proof of purchase for any warranty claims.

10. SUPPORT AND CONTACT

For technical assistance, parts inquiries, or further support, please contact Stens directly:

- **Website:** www.stens.com (Please note: This is a placeholder URL, verify the actual Stens website for support.)
- Refer to the contact section on the official Stens website for phone numbers or email support.

When contacting support, please have your product model number (435-281) and purchase information readily available.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

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