Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

John Deere AUC15714

John Deere AUC15714 Transmission Instruction Manual

For D105, E100, X105, X106 Series Lawn Tractors

1. Introduction

This instruction manual provides important information regarding the John Deere AUC15714 Transmission. This component is an Original Equipment Manufacturer (OEM) replacement part designed for specific John Deere lawn tractor models. It replaces prior part numbers AUC11077 and AUC10266. Proper installation and maintenance are crucial for optimal performance and longevity of your equipment.

Compatibility: This transmission is compatible with the following John Deere lawn tractor models:

- John Deere D105
- John Deere E100
- John Deere X105
- John Deere X106

Always refer to your original equipment owner's manual to verify compatibility and ensure correct part selection before proceeding with installation or service.

2. Setup and Installation

Installation of a transmission is a complex procedure that requires mechanical aptitude and specialized tools. It is highly recommended that this component be installed by a qualified service technician or an individual with extensive experience in lawn tractor repair.

2.1 Safety Precautions

- Always disconnect the spark plug wire and remove the ignition key before performing any service.
- Ensure the lawn tractor is on a stable, level surface and secured to prevent accidental movement.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Refer to the lawn tractor's owner's manual for specific safety guidelines and procedures.

2.2 Installation Steps (General Guidance)

The following steps provide general guidance. Specific procedures will vary by model. Always consult your tractor's service manual for detailed, model-specific instructions.

1. **Preparation:** Park the tractor on a flat surface, engage the parking brake, and disconnect the battery.
2. **Access:** Remove any components (e.g., deck, fenders, seat) necessary to gain access to the existing transmission.
3. **Disconnect:** Carefully disconnect all linkages, belts, wiring, and mounting hardware attached to the old transmission. Note the routing of belts and connections for reassembly.
4. **Removal:** Remove the old transmission from the tractor chassis.
5. **Inspection:** Inspect surrounding components (belts, pulleys, linkages, engine mounts) for wear or damage and replace as necessary.
6. **Installation of New Transmission:** Position the new John Deere AUC15714 Transmission into the chassis. Secure it with the appropriate mounting hardware.
7. **Reconnect:** Reconnect all linkages, belts, and wiring. Ensure belts are properly tensioned and all connections are secure.
8. **Fluid Check:** If applicable, check the transmission fluid level according to the tractor's service manual. Some transmissions are sealed units and do not require fluid checks.
9. **Reassembly:** Reinstall all removed components (deck, fenders, etc.).
10. **Testing:** After reassembly, perform a thorough functional test in a safe, open area before putting the tractor into regular service.

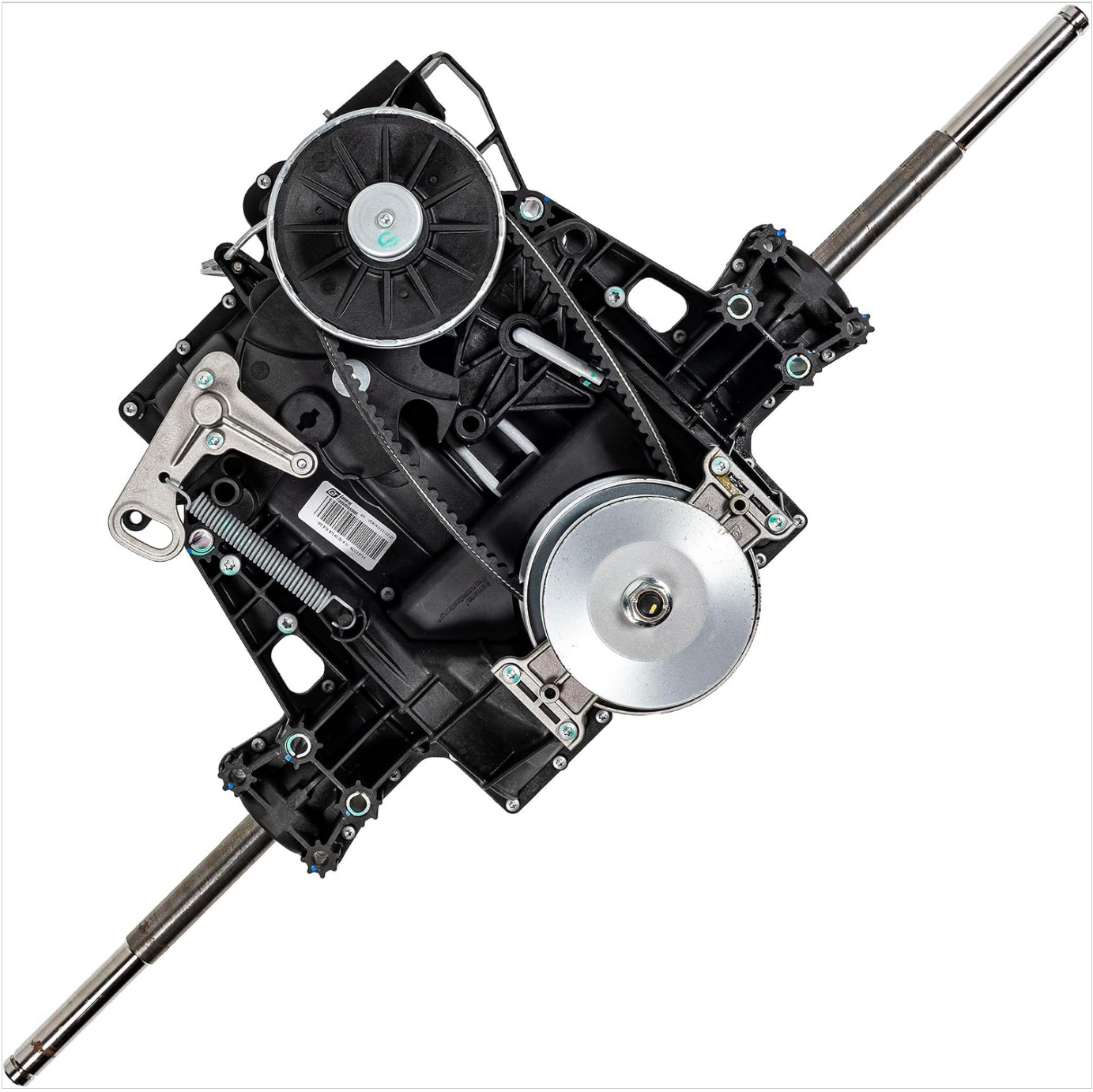


Image 1: Top-down view of the John Deere AUC15714 transmission, highlighting the belt system and various pulleys. This perspective is useful for understanding belt routing during installation.

3. Operating Considerations

The John Deere AUC15714 Transmission is an integral part of your lawn tractor's drive system. Its operation is directly controlled by the tractor's drive controls (e.g., foot pedals, shift lever). Ensure you are familiar with your specific tractor model's operating instructions.

- **Smooth Engagement:** Always engage the drive system smoothly to prevent undue stress on the transmission and drive belts.
- **Avoid Overloading:** Do not operate the tractor with loads exceeding its rated capacity, as this can damage the transmission.
- **Proper Speed Selection:** Use appropriate ground speed for the terrain and task to optimize transmission performance and longevity.





Image 2: Angled view of the John Deere AUC15714 transmission, showcasing the input and output shafts, along with the intricate arrangement of internal and external components. This view helps in identifying connection points.

4. Maintenance

Regular maintenance helps ensure the reliable operation and extends the lifespan of your John Deere AUC15714 Transmission. Always refer to your lawn tractor's owner's manual for specific maintenance schedules and procedures.

- **Belt Inspection:** Periodically inspect the drive belts connected to the transmission for wear, cracks, or fraying. Replace worn belts promptly.
- **Cleaning:** Keep the exterior of the transmission clean and free of debris, grass clippings, and dirt. Excessive buildup can lead to overheating.
- **Linkage Check:** Ensure all control linkages connected to the transmission are free of obstruction, properly lubricated (if required by your tractor's manual), and securely attached.
- **Fluid Maintenance (if applicable):** Some transmissions are sealed units and do not require fluid changes. For models that do, follow the manufacturer's recommendations for fluid type and change intervals. Consult your tractor's owner's manual.
- **Fastener Torque:** Periodically check all mounting bolts and fasteners for proper torque. Loose fasteners can lead to vibration and premature wear.

5. Troubleshooting

If you experience issues with your lawn tractor's drive system after installing the AUC15714 transmission, consider the following common troubleshooting steps. For complex issues, consult a qualified service technician.

- **Loss of Drive Power:**
    - Check drive belts for proper tension, wear, or breakage.

- Ensure all control linkages are correctly connected and adjusted.
- Verify that the bypass lever (if present) is in the operating position.

- **Unusual Noises from Transmission:**
  - Inspect for loose mounting hardware.
  - Check for foreign objects caught in the belt or pulley system.
  - If the noise persists and is internal, professional diagnosis is recommended.

- **Difficulty Engaging Drive:**
  - Ensure the brake pedal is fully released.
  - Check for obstructions in the control linkage.
  - Verify proper adjustment of the drive control mechanism.

- **Leaking Fluid:**
  - Identify the source of the leak. It could be from a seal, gasket, or casing.
  - If the transmission is a sealed unit, any leak indicates a need for professional repair or replacement.



Image 3: Side view of the John Deere AUC15714 transmission, clearly showing the spring mechanism and belt tensioner assembly. This view is helpful for understanding tensioning and linkage connections.

6. Specifications

The following specifications pertain to the John Deere AUC15714 Transmission:

Attribute	Value
Part Number	AUC15714
Replaces Prior MPN	AUC11077, AUC10266
Manufacturer	John Deere
Product Dimensions	33 x 20 x 13 inches

Attribute	Value
Item Weight	35.9 pounds
ASIN	B09BW673RZ

7. Warranty Information

For specific warranty details regarding the John Deere AUC15714 Transmission, please refer to the official John Deere warranty documentation provided with your original purchase or consult an authorized John Deere dealer. Warranty terms and conditions may vary based on region and purchase date.

8. Support and Contact

If you require further assistance, have questions about installation, or need to order additional parts, please utilize the following resources:

- **Authorized John Deere Dealer:** Contact your local authorized John Deere dealer for expert service and genuine parts.
- **John Deere Website:** Visit the official John Deere website for product information, manuals, and dealer locators.
- **Original Equipment Manuals:** Always refer to the owner's manual for your specific John Deere lawn tractor model for detailed operational and maintenance instructions.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B09BW673RZ

More documents and user manuals: **https://manuals.plus/**