

SCITOO JM36, JM46, JS36, JS38, JS46, JS48

SCITOO Lawnmower Clutch Cable Instruction Manual

For John Deere Models: JM36, JM46, JS36, JS38, JS46, JS48

INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the SCITOO Lawnmower Clutch Cable. This replacement cable is designed for specific John Deere walk-behind lawnmower models to ensure proper drive engagement and disengagement.

Compatible Models:

- John Deere JM36
- John Deere JM46
- John Deere JS36
- John Deere JS38
- John Deere JS46
- John Deere JS48

Replaces OEM Part Numbers:

- John Deere GX23805
- Snapper 7103354YP

SAFETY INFORMATION

Always ensure the lawnmower engine is off and the spark plug wire is disconnected before performing any maintenance or installation. Wear appropriate safety gear, including gloves and eye protection. Refer to your lawnmower's original owner's manual for specific safety precautions.

SETUP AND INSTALLATION

This section outlines the general steps for replacing a lawnmower clutch cable. Specific procedures may vary slightly depending on your exact lawnmower model. Always consult your lawnmower's service manual for detailed instructions.

1. **Prepare the Lawnmower:** Park the lawnmower on a flat, stable surface. Turn off the engine and remove the spark plug wire to prevent accidental starting.

2. **Locate the Old Cable:** Identify the existing clutch cable. It typically runs from the operator presence control (bail bar) on the handle to the transmission or drive mechanism of the mower.
3. **Disconnect from Handle:** Disconnect the old cable from the control lever or bail bar on the handle. This usually involves unhooking a Z-bend or similar attachment.
4. **Disconnect from Drive Mechanism:** Trace the cable down to the mower deck or transmission. Disconnect the cable from its attachment point, which often involves a spring and a Z-bend or hook. Note how the cable is routed and secured.
5. **Remove Old Cable:** Carefully remove the old cable from any clips or guides that secure it along the mower's frame.
6. **Install New Cable:** Route the new SCITOO clutch cable in the same manner as the old one, ensuring it is not kinked or pinched.
7. **Connect to Drive Mechanism:** Attach the spring end of the new cable to the drive mechanism.
8. **Connect to Handle:** Attach the Z-bend end of the new cable to the operator presence control lever on the handle.
9. **Adjust Cable Tension:** Most clutch cables have an adjustment point (often a threaded barrel adjuster) near the handle or mid-cable. Adjust the tension so that the drive engages smoothly when the bail bar is squeezed and fully disengages when released. There should be a small amount of slack when the bail bar is released.
10. **Test Operation:** Reconnect the spark plug wire. Start the engine and carefully test the drive engagement and disengagement in a safe, open area. Ensure the wheels stop completely when the bail bar is released.



Image 1: The SCITOO Lawnmower Clutch Cable, showing the Z-bend connector on one end and the spring with a hook on the other, along

with the cable conduit and adjuster.



Image 2: A view of the complete SCITOO Lawnmower Clutch Cable, illustrating its overall length and the connection points at each end.

OPERATING INSTRUCTIONS

The clutch cable is an integral part of your lawnmower's self-propel system. Its primary function is to engage and disengage the drive mechanism that powers the wheels.

- **Engaging the Drive:** To engage the self-propel feature, firmly squeeze the operator presence control (bail bar) against the lawnmower handle. This action pulls the clutch cable, which in turn engages the drive system, causing the wheels to turn.
- **Disengaging the Drive:** To disengage the self-propel feature, release the operator presence control (bail bar). The cable will slacken, and the drive system will disengage, stopping the wheels from turning.

Always ensure the drive is fully disengaged before making turns, stopping, or performing any adjustments to the mower.

MAINTENANCE

Proper maintenance of your clutch cable can extend its lifespan and ensure reliable operation of your lawnmower's drive system.

- **Regular Inspection:** Periodically inspect the cable for signs of wear, fraying, kinks, or damage to the outer conduit. Check the connection points for security.
- **Lubrication:** Apply a light lubricant (such as silicone spray or light oil) to the inner wire of the cable where it enters the conduit, especially if you notice stiffness in operation. This helps reduce friction and prevents corrosion.
- **Cleanliness:** Keep the cable and its connection points free from dirt, grass clippings, and debris.
- **Adjustment Check:** Verify that the cable tension is correctly adjusted. If the drive is slipping or not fully disengaging, adjust

the cable as described in the "Setup and Installation" section.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drive not engaging	Cable too loose; cable broken; connection points detached.	Adjust cable tension; inspect and replace if broken; reattach connections.
Drive slipping or weak	Cable too loose; worn drive belt (not cable related).	Adjust cable tension. If problem persists, inspect drive belt.
Drive not disengaging fully	Cable too tight; cable binding in conduit.	Loosen cable tension; lubricate cable or replace if binding persists.
Stiff or hard to operate bail bar	Cable binding in conduit; lack of lubrication.	Lubricate cable; check for kinks in conduit; replace cable if necessary.

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

SPECIFICATIONS

- **Brand:** SCITOO
- **Part Type:** Lawnmower Clutch Cable / Drive Cable
- **Conduit Length:** 33 inches
- **Cable Length:** 46 inches
- **Cable Ends:** Z-Bend on one end, spring on the other
- **Product Dimensions:** 9.45 x 7.09 x 0.98 inches (packaging/shipping dimensions)
- **Item Weight:** 5.6 ounces
- **Manufacturer Part Number:** GX23805 (John Deere OEM equivalent)



Image 3: A detailed view of the Z-bend connector, which typically attaches to the control lever on the lawnmower handle.





Image 4: A close-up of the spring and hook mechanism, designed to connect to the lawnmower's drive engagement lever.

WARRANTY INFORMATION

Specific warranty details for SCITOO products may vary. Please refer to the product packaging or contact SCITOO customer support for information regarding warranty coverage and terms.

SUPPORT

For further assistance, technical support, or inquiries regarding this product, please visit the official SCITOO website or contact their customer service department. Always provide your product model and purchase details when seeking support.

You can find more information about SCITOO products on their Amazon store: [SCITOO Auto Parts Store](#)

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