

8TEN 810-CSP2213N

8TEN Mower Spindle with Shaft Instruction Manual

Model: 810-CSP2213N | Brand: 8TEN

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your 8TEN Mower Spindle with Shaft. This component is designed as a replacement part for specific Murray lawn mower models. Please read all instructions carefully before proceeding with installation or maintenance.

2. SAFETY INFORMATION

Always prioritize safety when working with lawn mower components. Failure to follow safety guidelines can result in serious injury or damage to equipment.

- **Disconnect Power:** Before performing any installation, maintenance, or inspection, ensure the lawn mower's engine is off, the spark plug wire is disconnected, and the battery is disconnected (for electric start models).
- **Wear Protective Gear:** Always wear appropriate personal protective equipment, including safety glasses, gloves, and sturdy footwear.
- **Secure the Mower:** Use jack stands or other stable supports to secure the mower deck when working underneath it. Never rely solely on a jack.
- **Sharp Blades:** Mower blades are sharp. Handle them with extreme caution and wear heavy-duty gloves.
- **Proper Tools:** Use the correct tools for each task to prevent damage to parts and potential injury.
- **Consult Mower Manual:** Refer to your specific Murray lawn mower's owner's manual for additional safety precautions and detailed instructions related to deck removal and reinstallation.

3. PACKAGE CONTENTS

Your 8TEN Mower Spindle with Shaft package should contain the following item:

- One (1) 8TEN Mower Spindle Assembly (Model 810-CSP2213N)



Image: 8TEN Spindle Assembly in its packaging.

4. COMPATIBILITY

This 8TEN Mower Spindle with Shaft (Model 810-CSP2213N) is compatible with the following OEM part numbers and Murray lawn mower models with 38-inch and 52-inch decks:

4.1. Compatible OEM Part Numbers:

- Murray 094129MA
- Murray 774091
- Murray 774091MA
- Murray 94129
- Murray 94129MA

4.2. Compatible Murray Models (Partial List):

- 40614B, 38500A, 38500x83A, 38500x92A, 38500x92B, 38501x50A, 38502x51A, 38502x66A, 38502x67A, 38504A, 38504x25A, 38506x4A, 38510x50A, 38510x59A, 38514x95A, 40501x30A, 40530x51A, 40530x83A, 40530x92A, 40531x50A, 40531x59A, 40536x4A, 40538A, 40541A, 40542A, 40542B, 38500B, 38501x50B, 38502x51B, 38502x98A, 38515x83A, 38515x92A, 38515x92B, 38516x29A, 38516x52A, 40502x50A, 40503x88A
- 40563x88A, 40564x51A, 38500x30A, 38501x50C, 38502x51C, 38502x86A, 38502x98B, 38516x29B, 38516x52B, 38516x70A, 40502x50B, 40504x92A, 40505x95A, 40530x51B, 40541C, 40542D, 40564x51B, 40564x86A, 40566x95A, 38501x50D, 38502x51D, 38502x52A, 38502x86B, 38502x98C, 38516x53A, 38518x58B, 38519x58B, 38560x181A, 38560x81A, 40502x50C, 40506x88A, 40506x88B, 40507x14A, 40507x31A, 40507x8A, 40507x8B
- 40542E, 40560x50C, 40564x51C, 40564x88A, 40564x88B, 38501x50E, 385020x51A, 38502x51E, 38502x70A, 38516x53B, 38518x58C, 38519x58C, 38560x181B, 405019x50A, 40507x31B, 40508x52A, 40508x92D, 40510x50B, 40541E, 40541x99C, 40560x50D, 40560x50E, 405618x81A, 405014x92A, 405015x92A, 40508x92E, 312001x50C, 312002x98B, 312006x50A

Note: This list may not be exhaustive. Always verify compatibility with your specific mower model and existing part numbers before installation.

5. SETUP AND INSTALLATION

Replacing a mower spindle requires mechanical aptitude. If you are unsure about any step, consult a qualified technician.

5.1. Required Tools (May Vary):

- Socket wrench set
- Wrenches

- Torque wrench
- 3/8-16 tap and tap handle
- Drill (if new mounting holes are required)
- Longer bolts and lock nuts (if original bolts are too short or damaged)
- Grease gun and appropriate grease
- Pry bar or similar tool for deck removal/alignment
- Safety glasses and gloves

5.2. Pre-Installation Steps:

1. **Safety First:** Disconnect the spark plug wire and battery. Ensure the mower is on a flat, stable surface.
2. **Remove Mower Deck:** Carefully remove the mower deck from the tractor according to your mower's owner's manual. Place it on a clean, stable workbench or floor.
3. **Clean Deck Area:** Thoroughly clean the area around the spindle to be replaced, removing any grass clippings, dirt, or debris.
4. **Remove Old Spindle:** Remove the mower blade attached to the spindle. Then, unbolt and remove the old spindle assembly from the mower deck. Note the orientation of all parts for reassembly.

5.3. Spindle Preparation:



Image: Top view of the 8TEN Mower Spindle with Shaft, showing the grease zerk and mounting holes.

1. **Thread Mounting Holes:** The mounting holes on the new spindle may not be pre-threaded. Use a 3/8-16 tap to carefully cut threads into each mounting hole. This ensures a secure fit for the bolts.
2. **Grease Bearings (Optional but Recommended):** The bearings in this spindle are sealed. For extended life and optimal performance, it is recommended to remove the inner seals from the bearings before installation to allow grease from the zerk fitting to reach the moving parts. Apply grease using a grease gun until it begins to purge from the seals. Reinstall the outer seals if removed.

5.4. Installation Steps:



Image: Top view of the spindle assembly.



Image: Bottom view of the spindle assembly, showing the shaft.

1. **Mount New Spindle:** Position the new spindle assembly onto the mower deck, aligning the mounting holes.
2. **Secure Spindle:** Insert the mounting bolts through the deck and into the threaded holes of the spindle. If the original bolts are too short or damaged, use new, longer bolts with lock nuts for added security. Tighten bolts evenly and to the manufacturer's specified torque (refer to your mower manual).
3. **Install Mower Blade:** Attach the mower blade to the spindle shaft, ensuring it is oriented correctly (cutting edge facing down). Tighten the blade nut securely to the manufacturer's specified torque.
4. **Reinstall Mower Deck:** Reattach the mower deck to the tractor, ensuring all belts and linkages are correctly connected and tensioned.
5. **Reconnect Power:** Reconnect the spark plug wire and battery.

6. OPERATING CONSIDERATIONS

After installing the new spindle, perform a brief operational check before full use:

- **Initial Check:** Start the mower and engage the blades briefly in a safe, clear area. Listen for any unusual noises or vibrations.
- **Blade Balance:** Ensure the blade spins smoothly and without excessive wobble. An unbalanced blade can cause vibration and premature wear.
- **Test Cut:** Perform a test cut in a small area to confirm proper cutting performance.

7. MAINTENANCE

Regular maintenance extends the life of your spindle assembly.

- **Greasing:** This spindle features a grease zerk for lubrication. Apply a few pumps of appropriate grease with a grease gun periodically (e.g., every 25 operating hours or seasonally) to ensure proper bearing lubrication. If inner seals were removed during installation, grease will purge from the bearings, indicating they are sufficiently lubricated.
- **Inspection:** Regularly inspect the spindle for any signs of wear, damage, or looseness. Check mounting bolts and blade nuts for tightness.
- **Cleaning:** Keep the spindle and surrounding deck area free of excessive grass clippings and debris, which can trap moisture and accelerate wear.

8. TROUBLESHOOTING

If you encounter issues after spindle replacement, consider the following:

- **Excessive Vibration:**

- *Cause:* Unbalanced blade, loose blade nut, loose spindle mounting bolts, bent spindle shaft.
 - *Solution:* Check blade for balance and damage, tighten blade nut, tighten spindle mounting bolts, inspect spindle shaft for bends.
- **Unusual Noise (Grinding, Squealing):**
 - *Cause:* Lack of lubrication, damaged bearings, foreign object in deck.
 - *Solution:* Apply grease, inspect bearings for damage (replace spindle if necessary), clear deck of debris.
- **Poor Cut Quality:**
 - *Cause:* Dull or damaged blade, incorrect blade installation, bent spindle shaft.
 - *Solution:* Sharpen or replace blade, ensure blade is installed correctly, inspect spindle shaft for bends.

9. SPECIFICATIONS

Model Number	810-CSP2213N
Height	2 inches
Product Dimensions	6 x 5.8 x 6 inches
Item Weight	3.2 ounces
Includes Blade Mounting Hardware	No
Manufacturer	Mishon Inc

10. WARRANTY AND SUPPORT

10.1. Warranty Information:

This 8TEN product is backed by an **810-Day Warranty**. For specific terms and conditions, please refer to the warranty documentation included with your purchase or contact 8TEN customer support.



Image: 810 Day Warranty information.

10.2. Customer Support:

For technical assistance, warranty claims, or any questions regarding your 8TEN Mower Spindle with Shaft, please contact 8TEN customer support through their official website or the retailer where the product was purchased.