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> 8TEN Spindle for MTD, Cub Cadet, Troy-Bilt 50-inch Deck (Model 810-CSP2224N) Instruction Manual

8TEN 810-CSP2224N

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1. PRODUCT OVERVIEW

This manual provides instructions for the 8TEN Spindle Assembly, Model 810-CSP2224N. This component is designed as a replacement part for various MTD, Cub Cadet, and Troy-Bilt 50-inch mower decks. It includes a grease zerk fitting and a mandrel pulley, featuring a specially designed spindle shaft to replace the original 6-point star pattern.



Figure 1: Complete 8TEN Spindle Assembly with Pulley.

2. COMPATIBILITY

This 8TEN Spindle Assembly is compatible with the following OEM MPNs and models:

OEM MPNs:

- Cub Cadet, MTD, Troy Bilt: 618-04126, 618-04126A, 918-04125, 918-04125B, 918-04125C, 918-04126, 918-04126A, 918-04126B
- Toro: 112-0370

Compatible Models (50-inch Decks):

- **Cub Cadet:** LGTX1050 (2012-2014), LGT1050 (2012-2014), LTX1050KW (2014), LTX1050KH (2014), LGTX1054 (2012-2013), SLT1554 (2007 & After), RZT50 (2006-2011), RZT50KW (2012), RZT-L50KH (2013-2014), RZT-L50KW (2013-2014), RZT-S50KW (2014), RZT-S50KH (2014), RZT-S50 (2012-2013), LGT1054 (2012), RZT50VT (2009 & After), SLTX1054 (2009-2011), SLTX1050 (2010-2011), SLT1550 (2007 & after), i1050 (2007-2011), LT1050 (2007 & after)
- **MTD Columbia:** GT5024 (2014), GT5025 (2013), ZT-L50 (2014), ZT50 (2012-2013), RZT50 (2008-

2011) Q92GP (2010), Q62GP (2009), Q626P (2008)

- **Craftsman:** ZTL7000 (2012)
- **White Outdoor:** ZT-50 (2005-2008), ZT-5000 (2007), LT-5000 (2008), SLT-5400 (2008), ZT-22 (2004), LT-950H (2006), GT-950H (2005), 13AP925P004 (2011-2013), 13AA925P004 (2010), 13AA625P004 (2008-2009)
- **MTD Gold:** RZT-50 (2009-2012)
- **Huskee:** 13AP625K730 (2007), 13AR606P730 (2005), 13AR608P731 (2004)
- **Yard-Man:** 13AU615P755 (2005)
- **Troy-Bilt Mustang:** 50 XP 17ARCACP211 17WFCACP011 17WF2ACP011 17WF2ACP211 17BF2ACP211 (2009-2014), Horse 13AP61KP011 13AP60TP766 (2006-2009), RZT 50 17AF2ACP211 17AF2ACP766 (2007-2008), Mustang Super Bronco 13WQ93KP011 (2014), TB2450 13AA93KP066 13AA92KP066 13WQ92KP066 (2011-2014), Big Red Horse 14AA80TP766 (2007), RZT 50 17AA5ABP766 (2006), Big Red GT50 14AP80TP766 (2006)

3. SAFETY INFORMATION

Always prioritize safety when working with lawn equipment. Failure to follow safety precautions can result in serious injury.

- **Disconnect Power:** Before performing any maintenance or installation, ensure the mower's engine is off, the spark plug wire is disconnected, and the battery is disconnected (for electric start models).
- **Wear Protective Gear:** Use appropriate personal protective equipment (PPE) such as gloves and eye protection.
- **Secure the Equipment:** Ensure the mower deck is stable and properly supported if it needs to be lifted or removed.
- **Read Your Mower Manual:** Refer to your specific mower's owner's manual for detailed safety instructions and procedures.

4. SETUP AND INSTALLATION

This section outlines the general steps for replacing a spindle assembly. Specific procedures may vary slightly depending on your mower model. Always consult your mower's service manual for precise instructions.

Required Tools:

- Wrenches/Sockets (appropriate sizes for mounting bolts and pulley nut)
- Grease gun (for maintenance)
- Pry bar or similar tool (if needed to remove old spindle)

Installation Steps:

1. **Prepare the Mower:** Ensure the mower is turned off, cooled down, and all safety precautions (as listed in Section 3) are followed. Remove the mower deck from the tractor if necessary, and place it on a stable, flat surface.
2. **Remove Old Spindle:** Carefully remove the mower blade attached to the spindle. Then, unbolt the old spindle assembly from the mower deck. Note the orientation of the old spindle and any spacers or washers.
3. **Clean Mounting Area:** Clean any debris or rust from the spindle mounting area on the mower deck.
4. **Install New Spindle:** Position the new 8TEN Spindle Assembly onto the mower deck. Ensure the mounting holes align correctly.



Figure 2: Bottom view of the spindle, showing the 6-point star pattern shaft and grease zerk.

5. **Secure Spindle:** Use the provided mounting bolts (see Figure 3) to secure the spindle assembly to the deck. Tighten the bolts evenly and to the manufacturer's recommended torque specifications (refer to your mower's manual).



Figure 3: Included mounting bolts for the spindle assembly.

6. **Reattach Blade and Pulley:** Reinstall the mower blade onto the spindle shaft, ensuring it is properly seated and tightened. Reattach the pulley and secure it with the nut.
7. **Reinstall Deck:** Reinstall the mower deck onto the tractor, ensuring all belts are correctly routed and tensioned.
8. **Final Checks:** Before starting the mower, double-check all connections and ensure no tools or debris are left on the deck.

5. OPERATING CONSIDERATIONS

The spindle assembly is a critical component for the proper rotation of your mower blades. Once installed, ensure the blades spin freely without obstruction. Any unusual noises or vibrations during operation should be investigated immediately.

6. MAINTENANCE

The 8TEN Spindle Assembly is designed with a grease zerks fitting for extended bearing life. Regular lubrication is crucial for optimal performance and longevity.

Greasing Procedure:

1. **Locate Grease Zerk:** Identify the grease zerk fitting on the spindle housing (see Figure 4).



Figure 4: Top-down view of the spindle, highlighting the grease zerk fitting.

2. **Apply Grease:** Using a grease gun, apply a small amount of multi-purpose lithium-based grease until a slight resistance is felt or a small amount of grease purges from the seals. Avoid over-greasing.
3. **Frequency:** Consult your mower's manual for recommended greasing intervals. A general guideline is to grease every 25 hours of operation or annually, whichever comes first.

General Maintenance Tips:

- Regularly inspect the spindle for any signs of wear, damage, or looseness.
- Ensure the mower blade is sharp and balanced to reduce stress on the spindle bearings.
- Keep the mower deck clean to prevent debris buildup around the spindle.

7. TROUBLESHOOTING

If you experience issues after installing the new spindle, consider the following:

- **Excessive Vibration/Noise:** Check if the mower blade is properly installed, balanced, and tightened. Ensure the spindle mounting bolts are secure. Inspect the spindle for any visible damage or bent components.
- **Blade Not Spinning Freely:** Verify that no debris is obstructing the blade's rotation. Check for proper belt tension and routing.
- **Uneven Cut:** This can be caused by an improperly installed blade, a bent blade, or an issue with the mower deck leveling. Ensure the spindle is securely mounted and not loose.

If problems persist, consult a qualified service technician or refer to your mower's specific troubleshooting guide.

8. SPECIFICATIONS

Feature	Specification
Product Dimensions	6.7 x 5.6 x 5.5 inches
Item Weight	4.8 ounces
Item Model Number	810-CSP2224N
Manufacturer	Mishon Inc
Shaft Type	6-point star pattern (replacement for)
Grease Fitting	Yes, includes grease zerker

9. WARRANTY INFORMATION

This 8TEN Spindle Assembly is backed by an 810-Day Warranty. For specific terms and conditions, please refer to the official 8TEN warranty documentation or contact customer support.



Figure 5: 810 Day Warranty for 8TEN Parts.

10. SUPPORT

For further assistance, technical support, or warranty claims, please contact 8TEN customer service through their official website or the retailer where the product was purchased. Always have your product model number (810-CSP2224N) and purchase information available when contacting support.

