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VEVOR T5B11005FF000

VEVOR Series 5 PTO Drive Shaft Instruction Manual

Model: T5B11005FF000 | Brand: VEVOR

1. Introduction

This manual provides essential information for the safe and effective use of your VEVOR Series 5 PTO Drive Shaft. The Power Take-Off (PTO) shaft is designed to transfer power from a tractor to various PTO-powered agricultural implements. This Series 5 shaft features a robust construction, 1-3/8" x 6 spline ends for universal compatibility, and an adjustable length from 43 inches (collapsed) to 57 inches (extended). It includes a slip clutch for overload protection and safety features like a plastic shield and security chain.

Please read this manual thoroughly before installation, operation, or maintenance to ensure proper function and safety.



Figure 1: VEVOR Series 5 PTO Drive Shaft in operation.

2. Safety Information

Operating agricultural machinery and PTO shafts involves inherent risks. Adhere to all safety guidelines to prevent injury or equipment damage.

- **Read All Manuals:** Always read and understand the instruction manuals for both the PTO shaft and the tractor/implement before operation.
- **Protective Shielding:** Ensure all PTO shaft shields are in place and in good condition before operating. Never operate a PTO shaft without its protective shield.
- **Proper Connection:** Always ensure the PTO shaft is correctly attached and secured to both the tractor and the implement. Use the security chain to prevent rotation of the shield.
- **Clear Area:** Keep hands, feet, clothing, and bystanders clear of the rotating PTO shaft and all moving parts.
- **Disengage PTO:** Always disengage the PTO, shut off the engine, and remove the key before performing any adjustments, maintenance, or clearing blockages.

- **Correct Length:** Verify the PTO shaft length is appropriate for your tractor and implement combination. An incorrect length can cause damage or failure.
- **Slip Clutch:** The integrated slip clutch provides overload protection. Do not tamper with or modify the slip clutch settings.

3. Components Overview

The VEVOR Series 5 PTO Drive Shaft is constructed from durable materials and features several key components for efficient power transmission and safety.

- **Telescoping Tubes:** Allows for adjustable length to accommodate various tractor-implement distances. Made from Q345 steel.
- **Universal Joint:** Connects the telescoping tubes and allows for angular misalignment between the tractor and implement. Constructed from 20CrMnTi carburized steel.
- **Yokes:** Connect the universal joint to the telescoping tubes and the spline ends.
- **Slip Clutch:** An integral safety device designed to prevent damage to the PTO shaft and connected machinery by slipping when torque exceeds a preset limit.
- **Plastic Shield:** Provides protection against entanglement with the rotating shaft.
- **Security Chain:** Attaches the plastic shield to the implement or tractor to prevent it from rotating with the shaft.
- **Spline Ends:** Both the tractor and implement ends feature 1-3/8" x 6 spline connections for standard compatibility.

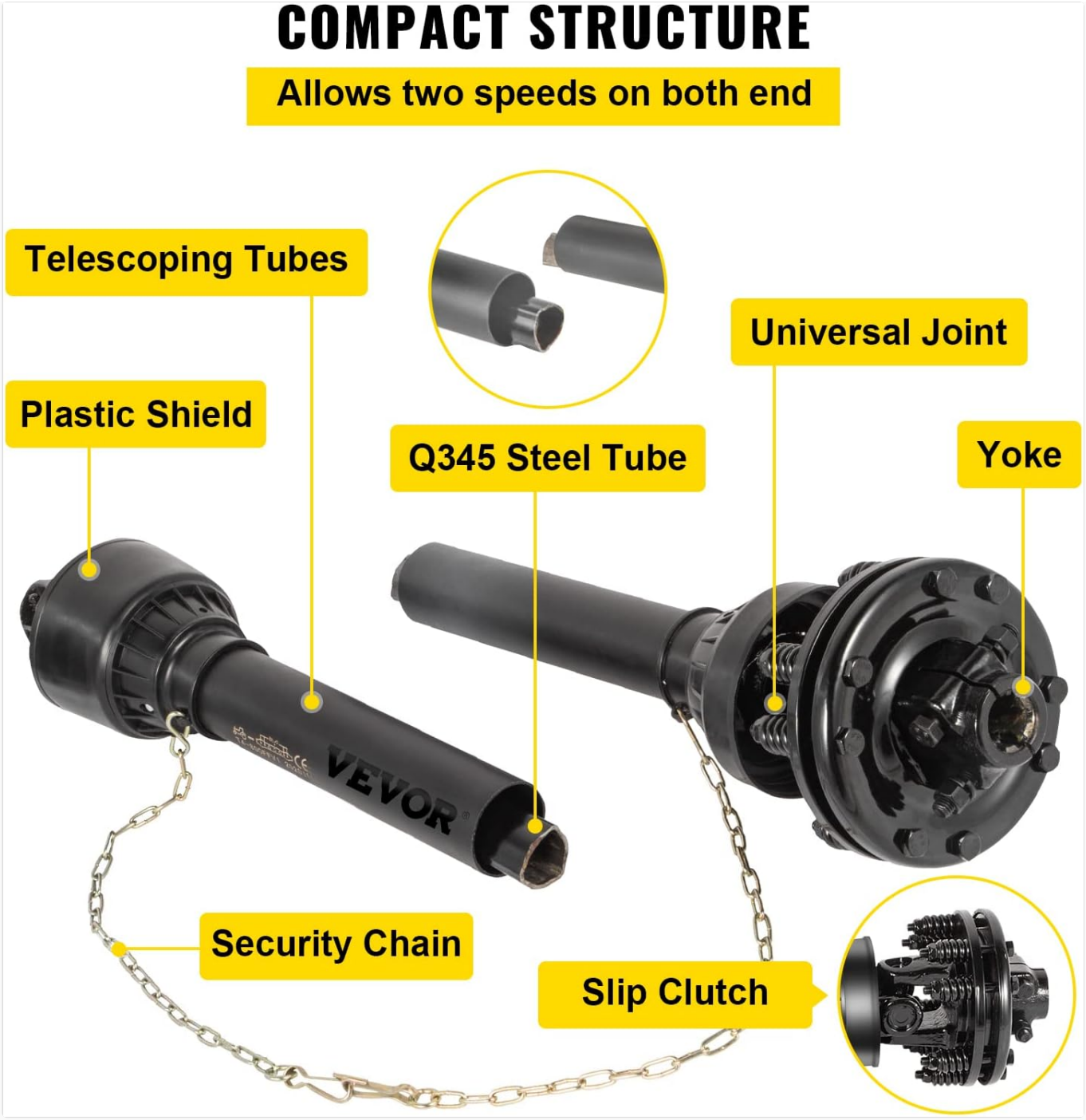

Figure 2: Detailed view of PTO shaft components.



Figure 3: Standard 1-3/8" x 6 Spline ends.

4. Setup and Installation

Proper installation is crucial for safe and efficient operation. Follow these steps carefully:

1. **Measure Required Length:** With the implement attached to the tractor and positioned at its shortest operating distance (e.g., fully raised for a 3-point hitch), measure the distance between the tractor's PTO stub shaft and the implement's input shaft. The PTO shaft should be able to collapse without bottoming out.
2. **Adjust Shaft Length (if necessary):** If the PTO shaft is too long, it may need to be cut. Detach the shaft, measure the excess length, and carefully cut both the plastic shield and the steel tubes to the appropriate size. Deburr all cut edges to prevent injury and ensure smooth operation.
3. **Lubricate:** Apply grease to the spline ends and universal joints before attachment.
4. **Attach to Tractor:** Slide the tractor end of the PTO shaft onto the tractor's PTO stub shaft. Ensure the locking mechanism (e.g., quick-release collar or pin) engages securely.
5. **Attach to Implement:** Slide the implement end of the PTO shaft onto the implement's input shaft. Ensure the locking mechanism engages securely.
6. **Secure Safety Chain:** Attach the security chain from the PTO shaft shield to a stationary point on the tractor or implement to prevent the shield from rotating.
7. **Final Check:** Ensure all connections are secure, shields are in place, and the shaft can operate through its full

range of motion without binding or bottoming out.



Figure 4: Installation steps for the PTO shaft.

5. Operating Instructions

Follow these guidelines for safe and effective operation of your PTO drive shaft:

- **Engaging PTO:** Always engage the PTO at a low engine RPM. Gradually increase engine speed to the desired operating RPM (e.g., 540 rpm or 1000 rpm, depending on the implement and tractor specifications).
- **Operating RPM:** The PTO shaft is rated for specific power outputs at 540 rpm (47 Hp, 35 Kw, 620 Nm torque) and 1000 rpm (77 Hp, 55 Kw, 500 Nm torque). Match the tractor's PTO speed to the implement's requirements.
- **Disengaging PTO:** Reduce engine RPM before disengaging the PTO.
- **Avoid Sharp Turns:** Minimize sharp turns when the PTO is engaged, as excessive angles can cause premature wear or damage to the universal joints.
- **Overload Protection:** The slip clutch is designed to protect the system from excessive torque. If the clutch slips frequently, investigate the cause (e.g., implement overload, incorrect operating conditions) rather than attempting

to bypass the clutch.

6. Maintenance

Regular maintenance extends the life of your PTO shaft and ensures safe operation.

- **Lubrication:** Regularly grease all universal joints and telescoping shaft sections. Refer to the grease points on the shaft. Frequency depends on usage, but typically every 8-10 hours of operation.
- **Inspection:** Before each use, inspect the entire PTO shaft for signs of wear, damage, or loose components. Check the condition of the plastic shields, security chain, universal joints, and spline connections.
- **Cleanliness:** Keep the PTO shaft clean and free of dirt, debris, and crop residue, especially around the telescoping sections and universal joints.
- **Storage:** When not in use, store the PTO shaft in a clean, dry place. If detached from the tractor and implement, store it in a way that prevents damage to the spline ends and shields.

7. Troubleshooting

This section addresses common issues you might encounter with your PTO drive shaft.

Problem	Possible Cause	Solution
Excessive Vibration	• Incorrect shaft length • Worn universal joints • Bent shaft • Improper alignment	• Verify and adjust shaft length • Inspect and replace worn universal joints • Inspect shaft for bends; replace if necessary • Ensure proper alignment between tractor and implement
Slip Clutch Engages Frequently	• Implement overload • Incorrect operating speed • Clutch worn or improperly adjusted	• Reduce load on implement • Operate at recommended PTO speed • Inspect clutch for wear; consult a professional for adjustment if needed
Difficulty Engaging/Disengaging	• Lack of lubrication • Damaged spline ends • Debris in spline	• Apply grease to spline ends • Inspect spline ends for damage; clean thoroughly
Shield Rotation	• Security chain not attached • Damaged security chain	• Always attach the security chain • Replace damaged security chain

8. Specifications

Technical specifications for the VEVOR Series 5 PTO Drive Shaft (Model T5B11005FF000):

Feature	Detail
Model Number	T5B11005FF000
Series	5
Tractor End	1-3/8" x 6 Spline
Implement End	1-3/8" x 6 Spline
Collapsed Length	43 inches (1100 mm)
Extended Overall Length	57 inches (1450 mm)
Material (Universal Joint)	20CrMnTi Carburized Steel
Material (Tube)	Q345 Steel
Torque at 540 rpm	47 Hp, 35 Kw, 620 Nm
Torque at 1000 rpm	77 Hp, 55 Kw, 500 Nm
Safety Feature	Slip Clutch, Plastic Shield, Security Chain
Product Weight	40 pounds (18.14 kg)
Product Dimensions	57 x 7 x 8 inches

PRODUCT SPECIFICATIONS:

VEVOR®

Product Weight: 46.74 lbs / 21.2 kg
Diameter:1-3/8in
Collapsed Length: 43in / 1100mm
Extended Length: 57in / 1450mm



Figure 5: Product specifications and dimensions.

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