

[Manuals.plus](#) /

› [Stens](#) /

› Stens Tie Rod 245-500 Instruction Manual

Stens 245-500

Stens Tie Rod 245-500 Instruction Manual

Model: 245-500 | Brand: Stens

1. INTRODUCTION

This manual provides essential information for the Stens Tie Rod, model 245-500. This component is designed as a direct replacement part for various Husqvarna lawn tractors. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. PRODUCT OVERVIEW

The Stens Tie Rod 245-500 is a critical steering component for compatible lawn tractors. It connects parts of the steering linkage, allowing the wheels to turn in unison. Proper functioning of the tie rod is essential for accurate steering control and safe operation of your equipment.



Figure 2.1: Stens Tie Rod 245-500. This image shows the complete tie rod assembly, a long metal rod with threaded ends and ball joints for connection to the steering components of a lawn tractor.

3. COMPATIBILITY

The Stens Tie Rod 245-500 is a replacement for the following OEM numbers and is compatible with the listed Husqvarna models. Always verify the part fits your specific equipment before installation.

3.1 Replaces OEM Numbers:

- **AYP:** 139929, 171888, 532139929
- **Husqvarna:** 139929, 171888, 532139929, 532171888

- **Poulan:** 139929, 171888, 532139929, 532171888

3.2 Compatible With/Replacement For Husqvarna Models:

- Most CTH 151T, CTH 182T, CTH 192, CTH 2038, CTH 2642, GTVH 205
- LT 2223CMA2
- YTH 1342XPA, YTH 1452XPA, YTH 1542B, YTH 1542C, YTH 1542D, YTH 1542E, YTH 1542XP, YTH 1542XPXC, YTH 1542XPD, YTH 1542XPE, YTH 1542XPF, YTH 1542XPG
- YTH 1746, YTH 1746A, YTH 1746B
- YTH 2046A, YTH 2046B
- YTH 2242A, YTH 2242B
- YTKH 1542XPA series lawn tractors

4. INSTALLATION (SETUP)

Replacing a tie rod requires mechanical aptitude and appropriate tools. If you are not comfortable performing this procedure, it is recommended to seek assistance from a qualified service technician. Always refer to your equipment's specific service manual for detailed, model-specific instructions.

General Steps:

1. **Safety First:** Ensure the lawn tractor is turned off, the engine is cool, and the parking brake is engaged. Disconnect the spark plug wire to prevent accidental starting.
2. **Lift and Secure:** Safely lift the front of the lawn tractor using a jack and secure it with jack stands to allow access to the steering components.
3. **Locate the Tie Rod:** Identify the tie rod connecting the steering arm to the wheel spindle.
4. **Remove Old Tie Rod:** Loosen and remove the nuts securing the tie rod ends to the steering components. A tie rod puller or fork may be necessary to separate the tapered studs.
5. **Install New Tie Rod:** Insert the new Stens tie rod into position, ensuring the ball joints are properly seated. Secure with new castle nuts and cotter pins (if applicable), tightening to the manufacturer's specified torque.
6. **Check Alignment:** After installation, it is highly recommended to check and adjust the front wheel alignment to ensure proper steering and tire wear.
7. **Lower Equipment:** Carefully lower the lawn tractor from the jack stands.
8. **Test Operation:** Slowly test the steering function before operating the equipment at full speed.

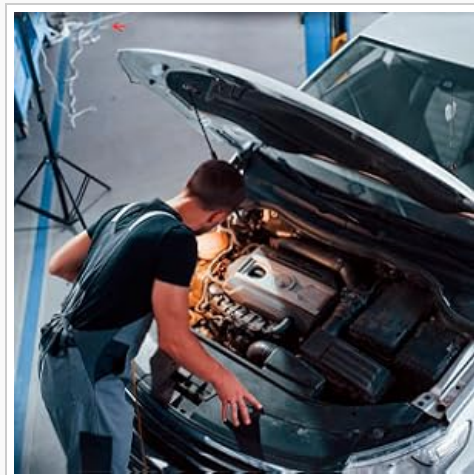


Figure 4.1: A mechanic inspecting an engine. Professional assistance is recommended for complex repairs like tie rod replacement if you are unsure.

5. OPERATING CONSIDERATIONS

Once the tie rod is installed, proper operation of your lawn tractor involves ensuring the steering feels responsive and smooth. Any unusual play or stiffness in the steering should be investigated immediately.

- **Smooth Steering:** The steering wheel should turn smoothly without excessive force or binding.
- **Straight Tracking:** The lawn tractor should track straight when the steering wheel is centered.
- **No Excessive Play:** There should be minimal free play in the steering wheel before the wheels begin to turn.



Figure 5.1: Hands on a steering wheel. Proper steering function is crucial for safe operation of your equipment.

6. MAINTENANCE

Regular inspection of your lawn tractor's steering components, including the tie rod, can help prevent issues and extend the life of the part.

- **Visual Inspection:** Periodically check the tie rod for any signs of bending, corrosion, or damage.
- **Ball Joint Boots:** Inspect the rubber boots on the tie rod ends for cracks or tears. Damaged boots can allow dirt and moisture to enter, leading to premature wear.
- **Play Check:** With the front wheels off the ground, grasp each wheel at the 3 and 9 o'clock positions and attempt to rock it. Excessive play may indicate worn tie rod ends or other steering component issues.
- **Lubrication:** If your tie rod ends have grease fittings, lubricate them according to your equipment's maintenance schedule.

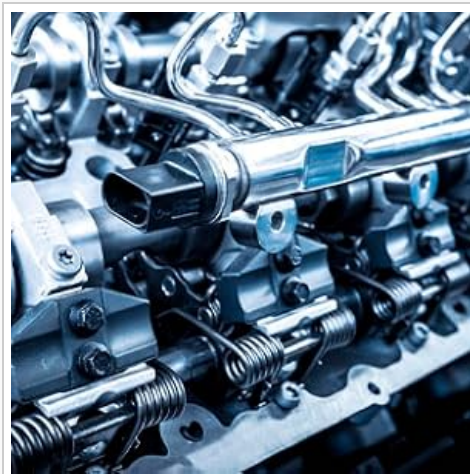


Figure 6.1: Close-up of engine components. Regular maintenance and inspection of all mechanical parts, including steering, are vital for equipment longevity.

7. TROUBLESHOOTING

If you experience any of the following symptoms after installing or during the use of the tie rod, consider these potential causes:

Symptom	Possible Cause	Action
Loose or sloppy steering	Worn tie rod ends, loose fasteners, incorrect installation.	Inspect tie rod ends for play, ensure fasteners are tightened to specification. Re-check installation.
Uneven tire wear	Incorrect wheel alignment after tie rod replacement.	Have the front wheel alignment checked and adjusted by a professional.
Steering wheel off-center	Tie rod length not correctly adjusted during installation.	Adjust tie rod length to center the steering wheel and correct alignment.
Clunking or popping noises from front end	Severely worn or damaged tie rod ends.	Inspect tie rod ends for excessive play or damage. Replace if necessary.

If troubleshooting steps do not resolve the issue, consult a qualified service technician.

8. SPECIFICATIONS

Key specifications for the Stens Tie Rod 245-500:

- **Description:** Tie Rod
- **Stens Model Number:** 245-500
- **Manufacturer:** Stens
- **Product Type:** Outdoor Living (Replacement Part)
- **Item Package Quantity:** 1
- **Item Weight:** 1.2 pounds (0.54 kg)
- **Item Package Weight:** 1.49 Pounds (0.68 kg)
- **Product Dimensions:** 21 x 1.8 x 0.5 inches (53.34 x 4.57 x 1.27 cm)
- **Item Package Dimension:** 23.4 L x 3.5 W x 0.75 H inches (59.44 x 8.89 x 1.91 cm)
- **ASIN:** B07ZPC4NZ9

9. WARRANTY AND SUPPORT

For information regarding the warranty of your Stens Tie Rod 245-500, please refer to the official Stens website or contact Stens customer support directly. Warranty terms and conditions may vary.

For technical support or further assistance, please visit the [Stens Store on Amazon](#) or the official Stens manufacturer website.

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

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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