M1 Windrower
Steering Rod Kit (MD #306271)
INSTALLATION INSTRUCTIONS

This kit is used to replace a failed steering link on M1 Series Windrows.

A list of parts included in the kit is provided.

**NOTE:** Keep your MacDon publications up-to-date. The most current version of this instruction can be downloaded from our Dealer-only site ([https://portal.macdon.com](https://portal.macdon.com)) (login required).

**Installation Time**
Approximately 2 hours

**Conventions**
The following conventions are used in this document:

- Right and left are determined from the operator’s position, facing forward with the windrower in cab-forward position.

- Unless otherwise noted, use the standard torque values provided in the M1 windrower operator’s manual and technical manual.
M1 Windrower
Steering Rod Kit (MD #306271)
INSTALLATION INSTRUCTIONS

Parts List
This kit includes the following parts:

Figure 1: Parts Included MD #306271

<table>
<thead>
<tr>
<th>Ref</th>
<th>Part Number</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>291651</td>
<td>ROD-STEERING LINK</td>
<td>1</td>
</tr>
<tr>
<td>A</td>
<td>184675</td>
<td>BOLT - HEX HD M12X1.75X70-8.8-AA1J</td>
<td>2</td>
</tr>
<tr>
<td>B</td>
<td>184694</td>
<td>NUT-HEX M12X1.75-8-AA1J</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>136431</td>
<td>NUT-HEX FLG CTR LOC M12X1.75-10</td>
<td>2</td>
</tr>
</tbody>
</table>
Installation Instructions

To install the Steering Rod kit, follow these steps:

**WARNING**

To avoid injury or death from unexpected start-up of machine, always stop the engine and remove the key from the ignition before leaving the operator’s seat for any reason.

**NOTE:** Some parts have been removed from the following illustrations for clarity.

**Removing the Steering Link**

1. Shut down the engine, and remove the key from the ignition.

2. If autopilot™ is installed, remove U-bolts (A) from cylinder end support (B).

![Figure 1: Autopilot™ Support](image-url)
3. Remove two nuts (A) and (B) on either end of the steering link.

4. Remove two bolts (C).

5. Remove steering link rod (D).

6. Loosen nut (A) on ground speed lever (GSL) position sensor bracket (B).

7. Position the sensor bracket out of the way.

8. Remove cotter pin (C).

9. Loosen nuts (A) and (B).

10. Slide steering arm (C) down enough that bolt (D) can be installed through the steering arm from the top.

**NOTE:** Bolt (D) shown for reference.
Installing the Steering Link

1. Install steering link rod (D).

2. Install two bolts (C).

3. Install free spinning nut (B) until snug, and then use a wrench and tighten the nut another 60° to 90°.

4. Holding nut (B), tighten lock nut (A) to 65–72 Nm (48–53 lbf-ft).

5. Slide steering arm (D) up until it is snug against the shoulder of the steering shaft.

6. Install free spinning nut (B) until snug, and then use a wrench and tighten the nut another 60° to 90°.

7. Holding nut (B), tighten lock nut (A) to 65–72 Nm (48–53 lbf-ft).

8. Install cotter pin (C).

Figure 1: Steering Link

Figure 2: Steering Arm
9. Line up the sensor slot with sensor adapter tab (C).

10. Slide sensor subassembly up, until sensor fully engages on adapter tab. The sensor is spring loaded.

11. Rotate sensor assembly (B) toward bolt (A), and line it up under the ground speed lever (GSL) position bracket (D).

12. Tighten nut (A).

If autopilot™ is installed;

13. Position cylinder end support (B) against jam nut (C) on the left end of the steering rod, with the bottom edge of bracket aligned horizontally and pointed toward the front.

14. Check that the steering link is centered between the ball joints.

15. Tighten both U-bolts (A) evenly until cylinder end support (B) clamps onto the steering link, and then continue to tighten one full turn.

© 2019 MacDon Industries, Ltd.

The information in this publication is based on the information available and in effect at the time of printing. MacDon Industries, Ltd. makes no representation or warranty of any kind, whether expressed or implied, with respect to the information in this publication. MacDon Industries, Ltd. reserves the right to make changes at any time without notice.