

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

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

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>) (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.

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Parts List

This kit includes the following parts:

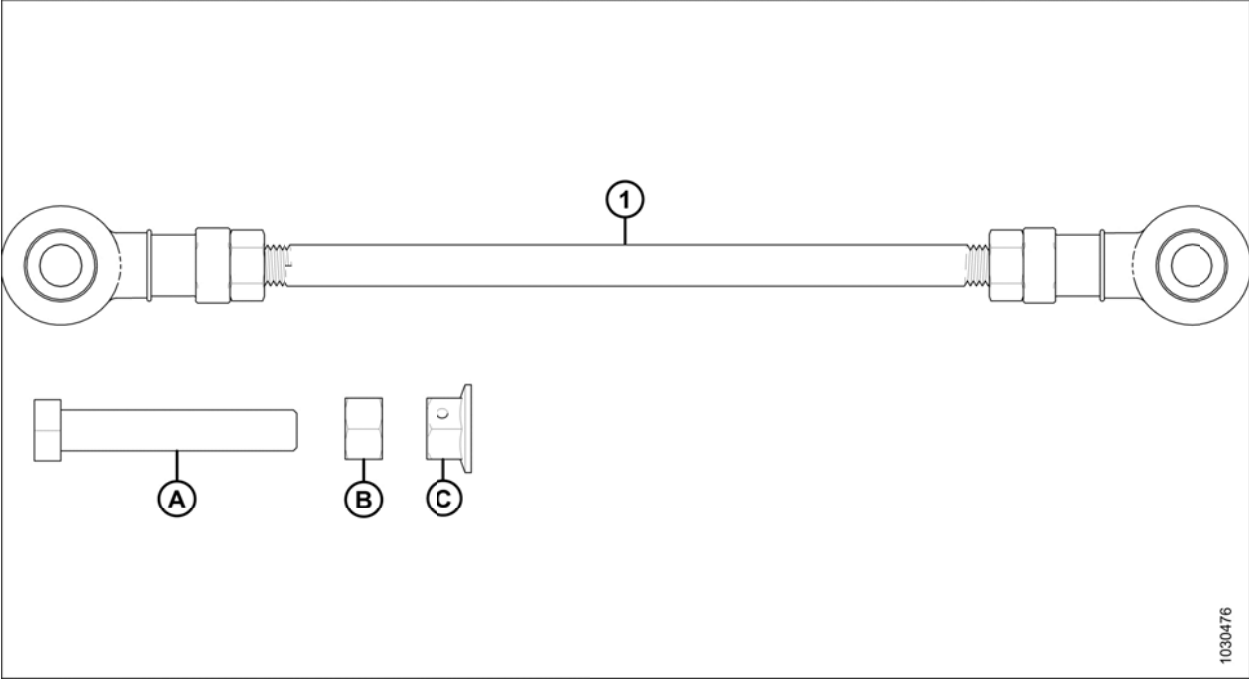


Figure 1: Parts Included MD #306271

Ref	Part Number	Description	Qty
1	291651	ROD-STEERING LINK	1
A	184675	BOLT - HEX HD M12X1.75X70-8.8-AA1J	2
B	184694	NUT-HEX M12X1.75-8-AA1J	2
C	136431	NUT-HEX FLG CTR LOC M12X1.75-10	2

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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).

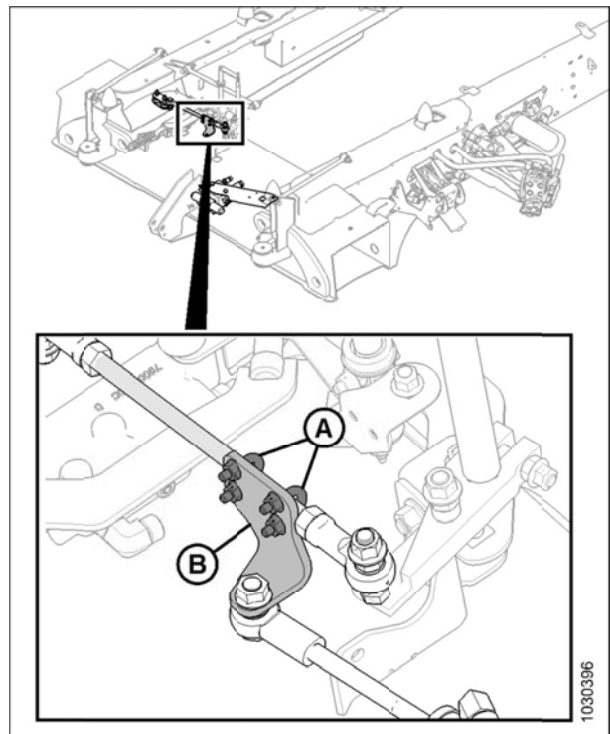


Figure 1: Autopilot™ Support

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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).

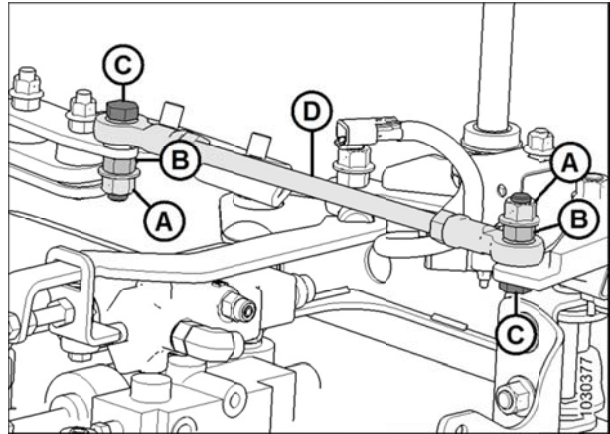


Figure 2: Steering Link

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).

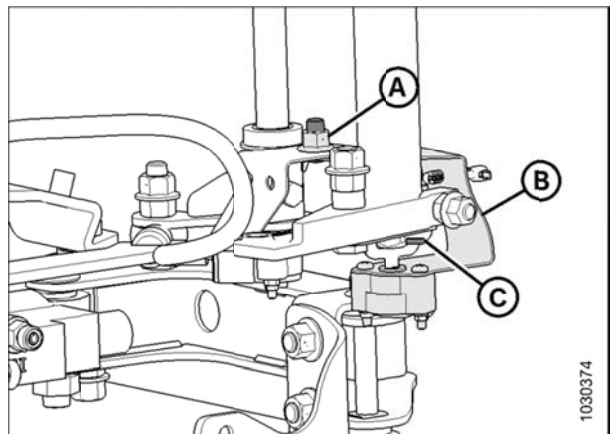


Figure 3: Sensor Bracket

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.

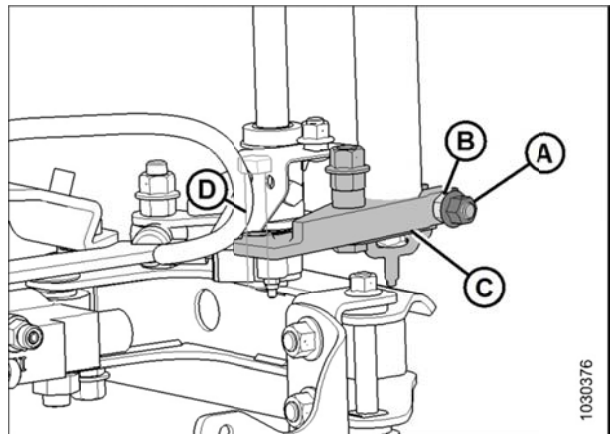


Figure 4: Steering Arm

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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).

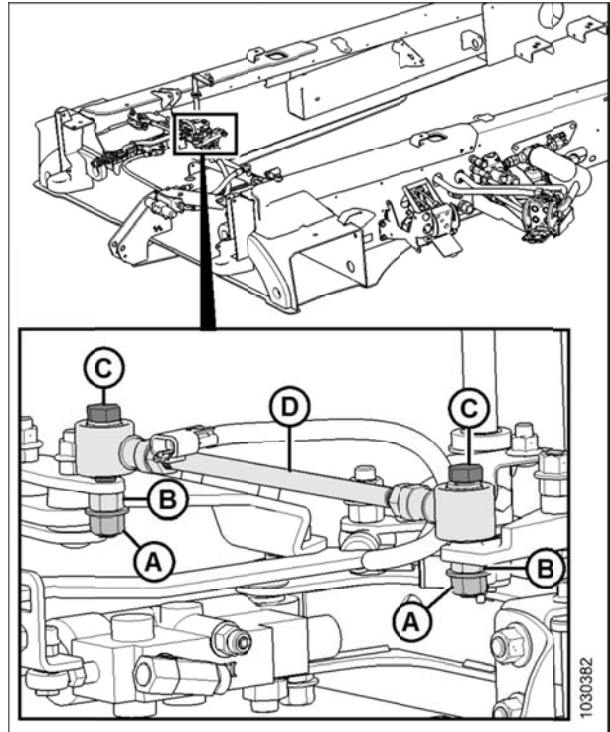


Figure 1: Steering Link

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).

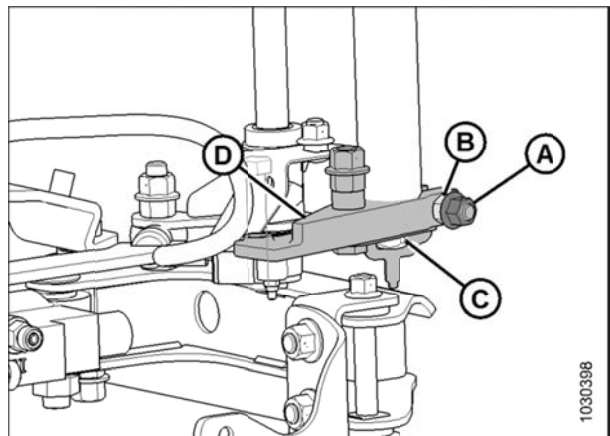


Figure 2: Steering Arm

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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).

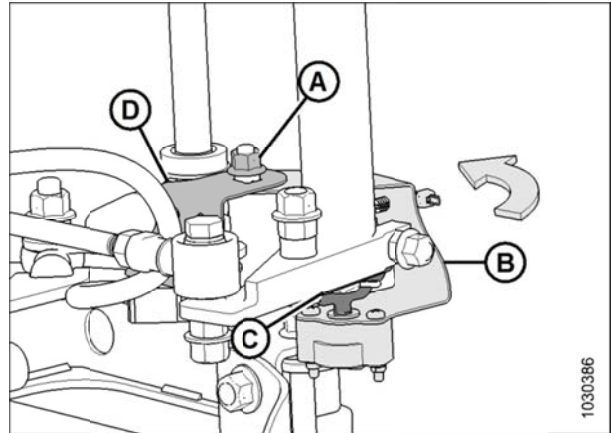


Figure 3: Sensor Assembly

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.

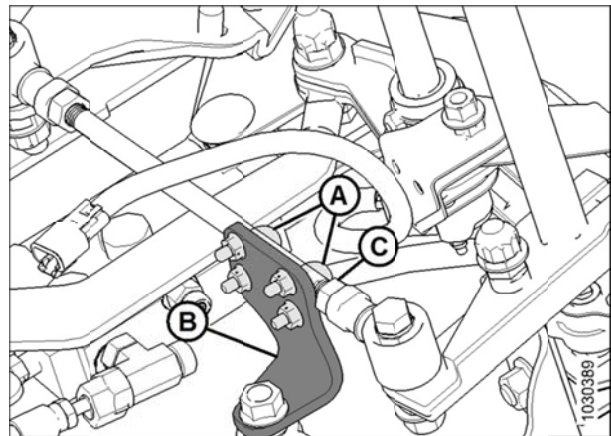


Figure 4: Autopilot™ Support

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