FM100 Float Module
AHHC SENSOR BRACKET (MD #301946)
REWORK INSTRUCTIONS

The purpose of the AHHC Sensor Bracket Rework kit (MD #301946) is to adjust the length of the ball joint link to prevent linkage damage and replace the bracket with one of greater adjustment range, in order to ensure trouble-free AHHC calibration.

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).

Conventions

The following conventions are followed in this document:

- Right and left are determined from the operator's position. The front of the header is the side that faces the crop; the back of the header is the side that connects to the combine.
- Unless otherwise noted, use the standard torque values provided in the header operator's manual and technical manual.

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Part List

This kit includes the following parts:

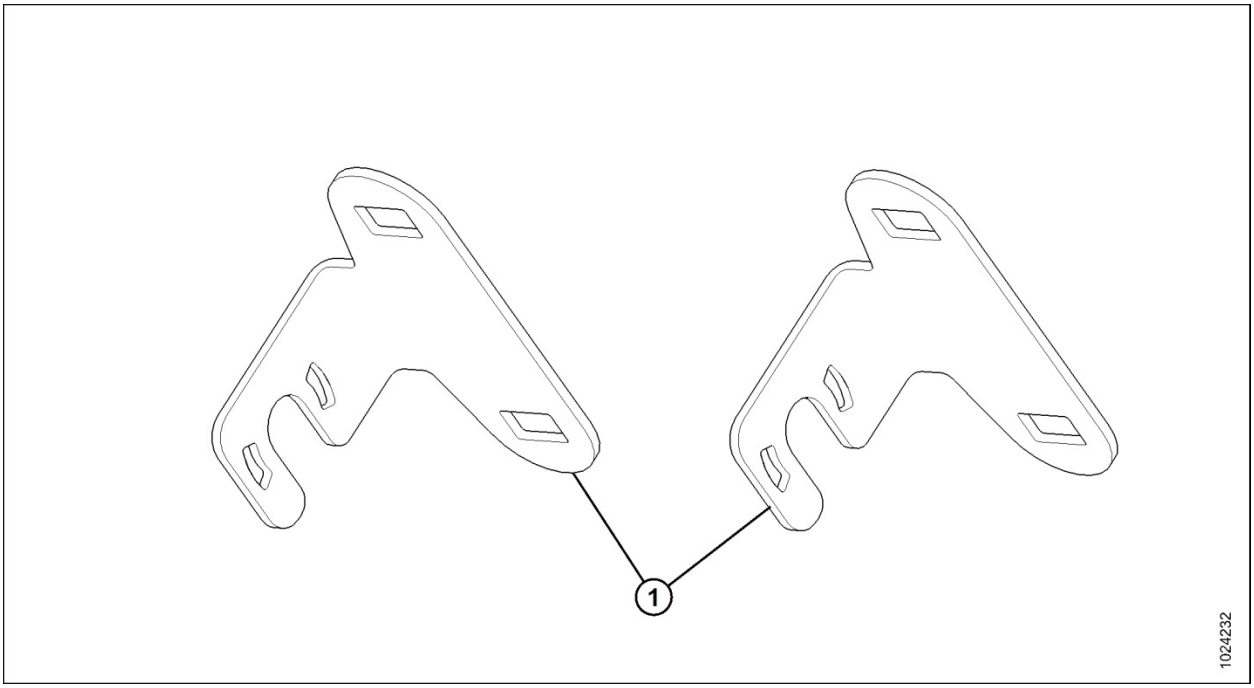

Figure 1: Parts Included in Kit

Ref	Part Number	Description	Quantity
1	301865	BRACKET – AHHC SENSOR	2

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Installation Instructions

DANGER

To avoid bodily injury or death from unexpected start-up or fall of raised machine, always stop engine, remove key, and engage safety props before going under header for any reason.

To install the AHHC Sensor Bracket Rework kit (MD #301946), follow these steps:

1. Raise header to full height, and engage safety props.
2. Shut down combine, and remove key from the ignition.
3. Disconnect sensor harness from AHHC sensor (A) at right side of the float module.

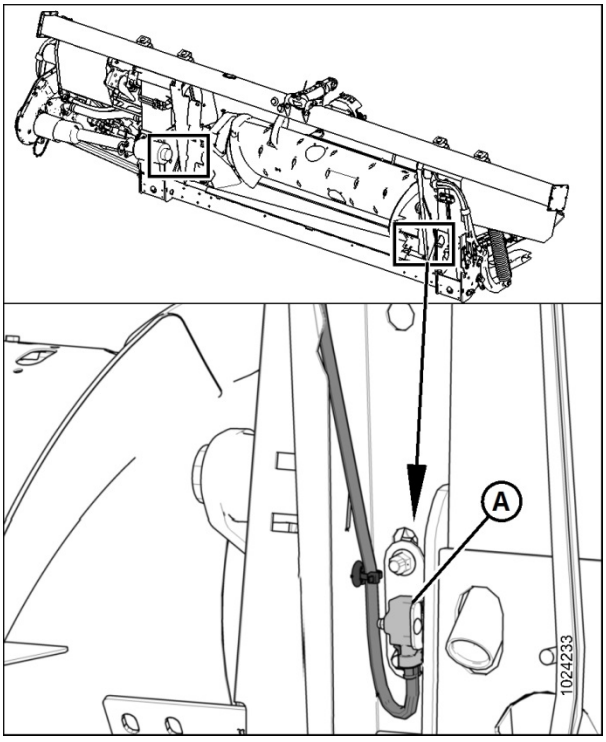

Figure 2: Right Float Module

4. Remove M6 nut (A) from sensor link bracket (B). Retain for reassembly later.

5. Remove M10 bolts and nuts (C), and remove sensor assembly from float module. Retain bolts and nuts.

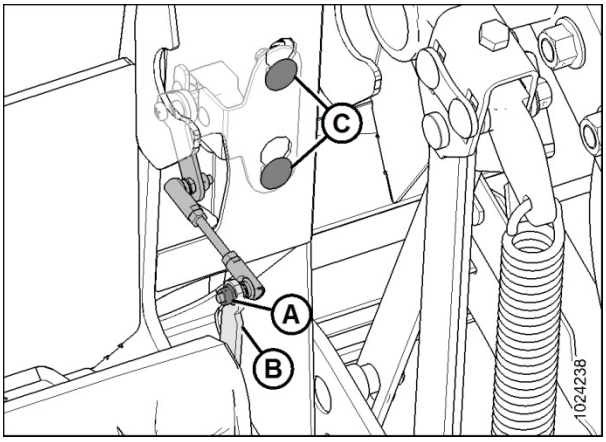

Figure 3: Right Sensor Assembly

6. Remove M5 carriage bolts (A), nuts (B), and bracket (C) from sensor assembly. Retain bolts and nuts, discard bracket.

7. Install new sensor bracket (C) (MD #301865) using the two M5 carriage bolts (A) and nuts (B). Torque to 2.5 Nm (24 lbf·in.).

   NOTE: Right side sensor's connector faces away from notch in bracket; left side is opposite.

8. Ensure there is a distance of 50.4 mm (1-31/32 in.) (D) between the two ball joints. If not, adjust as follows:

   a. Loosen jam nuts (E).

   b. Adjust link length (F).

   c. Tighten jam nuts (E) to 12 Nm (9 lbf·ft).

   NOTE: Ball joint must face away from each other as shown in Figure 4.

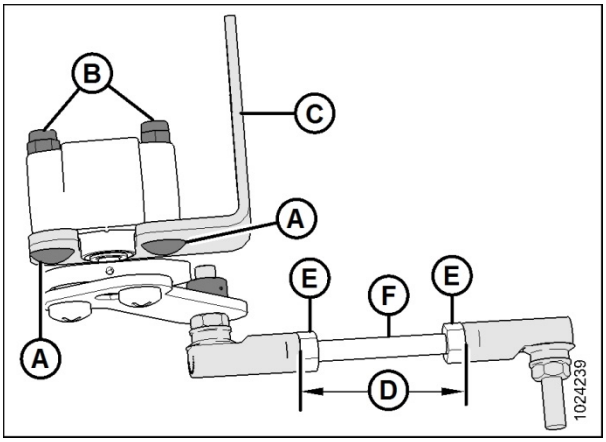

Figure 4: Right Sensor Assembly

9. Install right sensor assembly inside of float module frame as shown. Secure with M10 bolts and nuts (A) and torque to 39 Nm (28 lbf·ft).

10. Attach ball joint (B) on sensor link bracket (C). Secure with nut (D) and tighten to 12 Nm (9 lbf·ft).

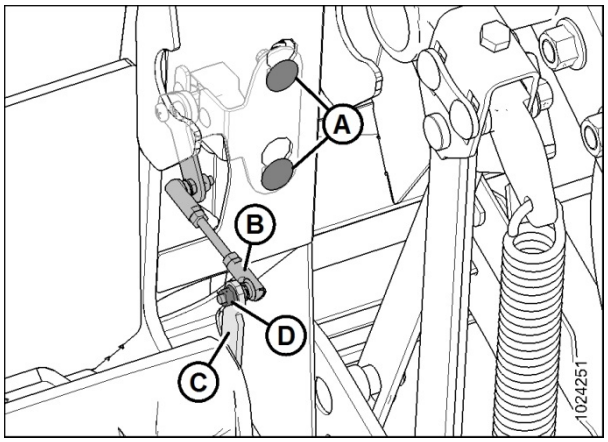

Figure 5: Right Sensor Assembly

11. Connect sensor harness (A) to the sensor (B).

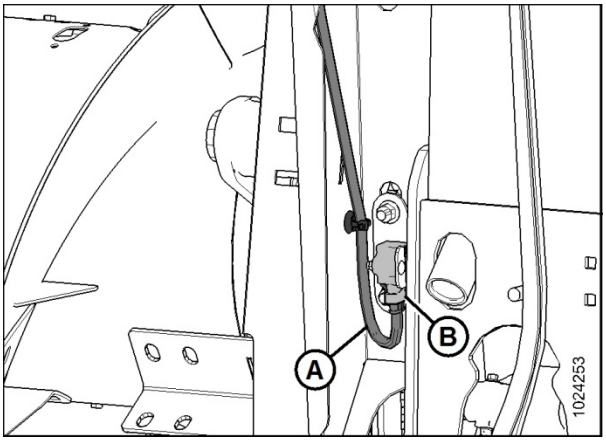

Figure 6: AHHC Sensor and Harness

12. Repeat Steps 3 to 11 at the left side of the float module.

13. Refer to the header technical or operator's manual for instructions on checking/adjusting sensor voltage and calibrating the AHHC system.