

FM100 Float Module
FM100 HARNESS UPDATE KIT (MD #258126)
INSTALLATION INSTRUCTIONS

The purpose of this document is to explain the changes required to the FM100 Float Module harness that allows John Deere combines to correctly read Header ID. This update kit remedies auto header height control (AHHC) calibration issues on model year 2017, John Deere-configured, FM100 Float Modules.

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).

NOTE: This document is currently available in English only.

Conventions

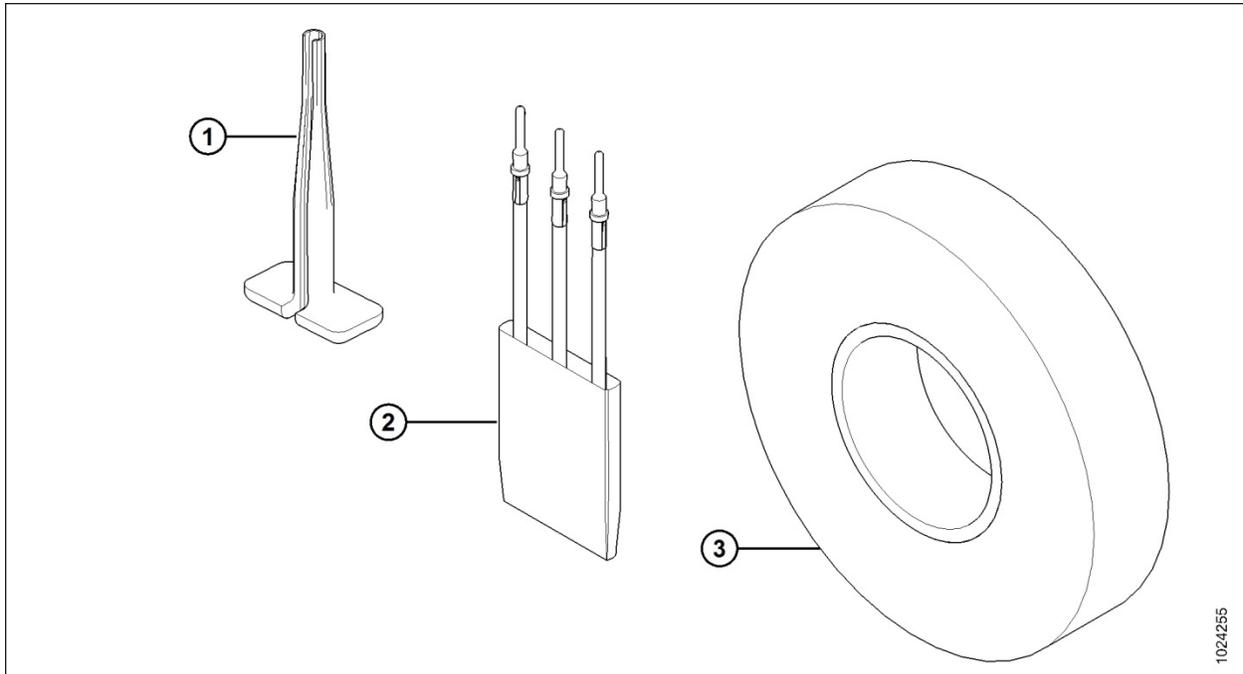
The following conventions are used in this document:

- 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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Parts List

This kit includes the following parts:



| Ref | Part Number | Description | Quantity |
|-----|------------------|--|----------|
| 1 | 134013 | Tool – Contact Removal, Deutsch Size 16 Blue | 1 |
| 2 | NSS ¹ | Jumper Assembly | 1 |
| 3 | NSS ¹ | Tape – Coroplast Black 837X | 1 |

¹ Not sold separately

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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 update the harness, follow these steps:

1. Lower the header.
2. Stop engine and remove key from ignition.
3. Disconnect FM100 electrical connector C2A (A) from the multicoupler, located on the back of the float module, by turning collar counterclockwise and pulling connector to disengage.

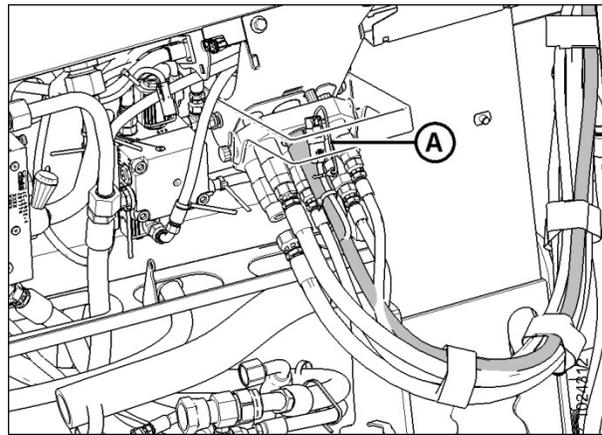


Figure 1: Connector C2A on FM100 Float Module

4. Remove any tape holding connector C2A (A) to rubber boot (B).
5. Pull back rubber boot (B) from connector (A) to expose wires at the back of the connector housing.

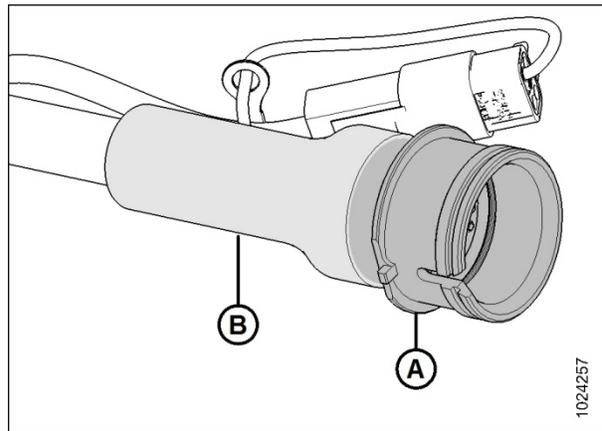


Figure 2: Electrical Connector C2A

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6. Use contact removal tool (MD #134013) to remove the jumper wire from connector C2A positions 4 (A) and 16 (B) following the steps described in Figures 4 – 7.

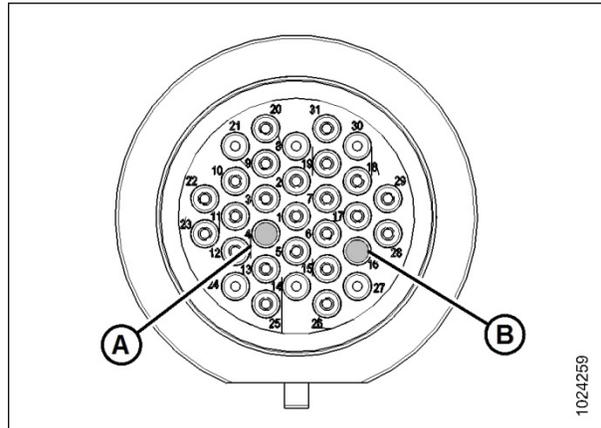


Figure 3: Electrical Connector C2A – Rear View

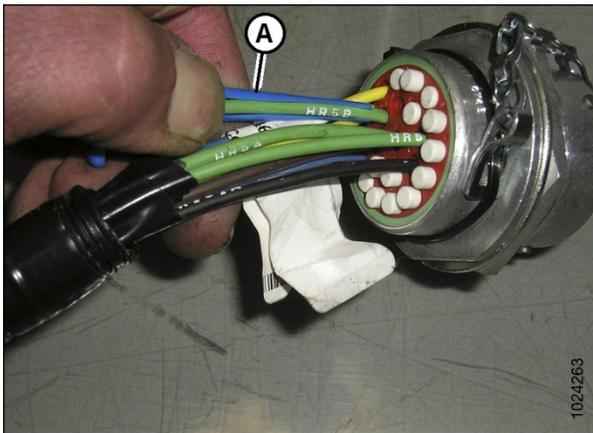


Figure 4: Setting the Contact Removal Tool

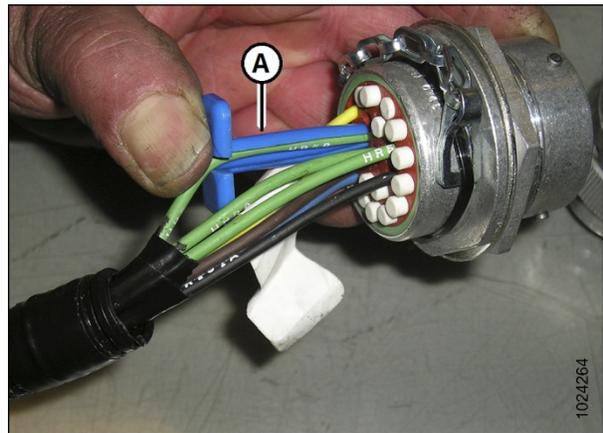


Figure 5: Contact Removal Tool Fully Inserted

- A. To use the contact removal tool, place tool (A) over the wire to be removed, then insert it into the rear of the connector as shown in Figure 4 above. Use firm thumb pressure to ensure that the tool is fully inserted into the connector as shown in Figure 5 above.

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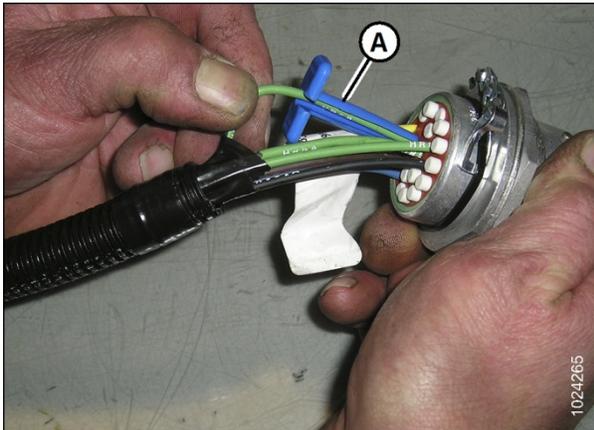


Figure 6: Pulling the Wire



Figure 7: Wire Removed

- B. Pull the wire out approximately 12.5 mm (1/2 in.), and then remove both the contact removal tool (A) and the wire as shown in Figures 6 and 7 above.
- C. Discard jumper wire.
- 7. Take new jumper assembly and insert branches into connector C2A positions 4(A), 16(B), and 28(C).
- 8. Ensure that wires have been seated correctly. Jumper pins should extend from the housing at the same distance as the other pins.

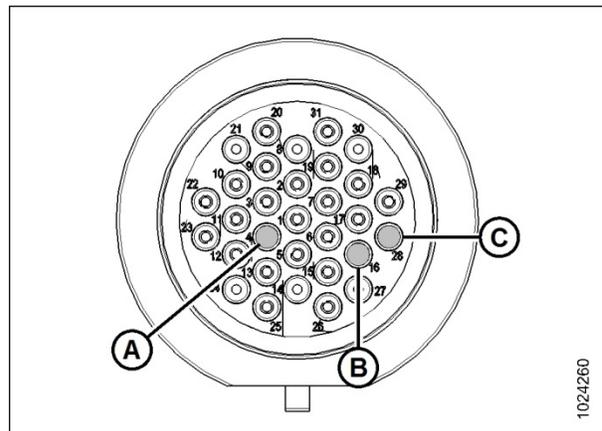


Figure 8: Connector C2A – New Configuration

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9. Move rubber boot (A) back over the jumper assembly (B) and connector C2A (C), then seal using tape provided.

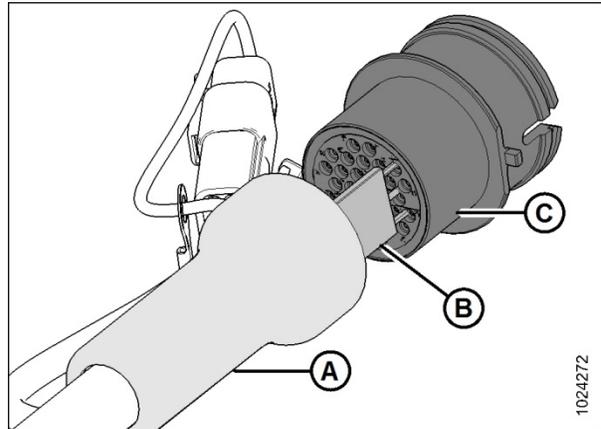


Figure 9: Connector C2A – New Installation