

**CASE IH SPX 3320/3330/
4420 Sprayer and 20 Series
FLX (Liquid Bed) AccuBoom
Installation Manual**

P/N 0160-0171-084 Rev D 01/17

E28992

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Congratulations on your purchase of the Raven AccuBoom system! This system is designed to provide worry-free turn on and turn off of the booms with respect to the as-applied coverage map. The instructions in this manual are designed to assist you in the proper installation of the AccuBoom system. Refer to your console-specific Installation and Operation manual for instructions on setting up the software and using the AccuBoom system.



Important! All boom switches must remain in the **ON** position while AccuBoom control is in operation!

Components Needed for this Procedure

- CAN AccuBoom Control Node (P/N 063-0172-316)
- Case 3320/3330/4420 CAN AccuBoom Cable (P/N 115-0171-688)
- Case SPX 3320/3330/4420 Sprayer CAN Installation Manual (P/N 016-0171-084)

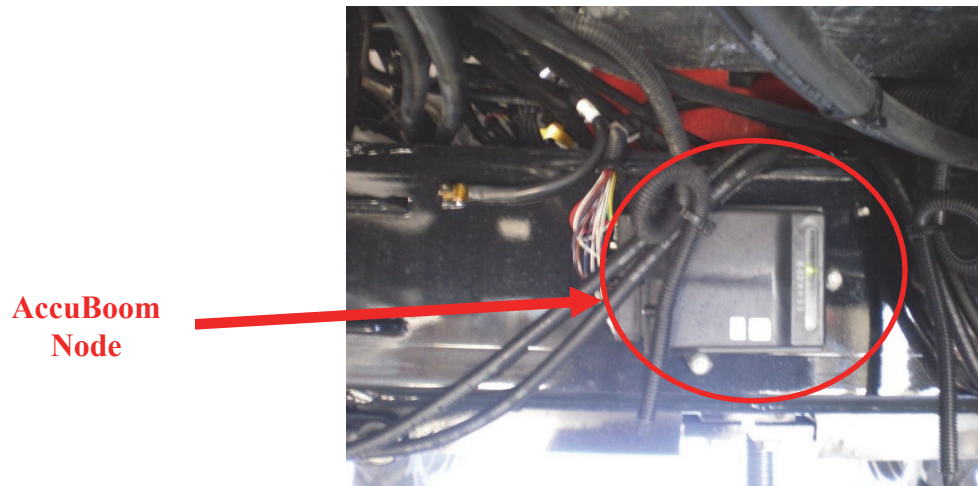
Notes:

Complete the following steps to properly install the AccuBoom on a CaseIH SPX 3320/3330/4420 Series Sprayer or a CaseIH FLX 20 Series Liquid Floater.

Mount the CAN AccuBoom Node Behind the Operator Cab

1. Find the Case boom cable connector (12-pin Deutsch) located directly behind the cab.
2. Find the mounting studs (if equipped) located on the cross member below the cab.

Figure 1: CAN AccuBoom Node Installed (Model Year 2008 & Newer)

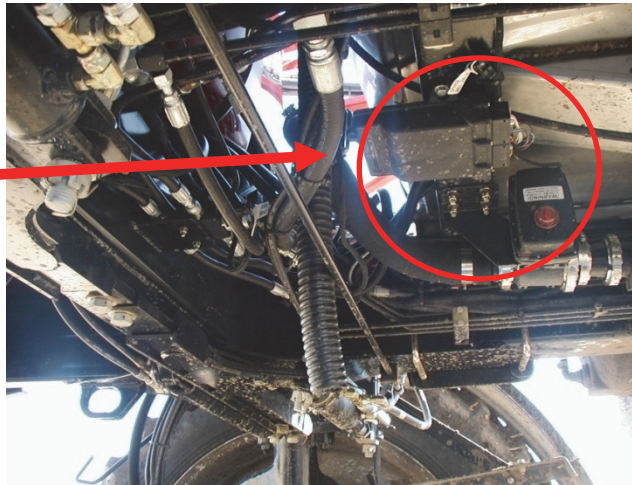


Important! Some earlier model machines (2007 and older) may not have these mounting studs factory installed. If they are not, add these studs or choose a suitable mounting location.

3. Mount the CAN AccuBoom node (P/N 063-0172-316) on the mounting studs (if supplied).

Figure 2: CAN AccuBoom Node Installed (Model Year 2007 & Older)

**AccuBoom
Node**

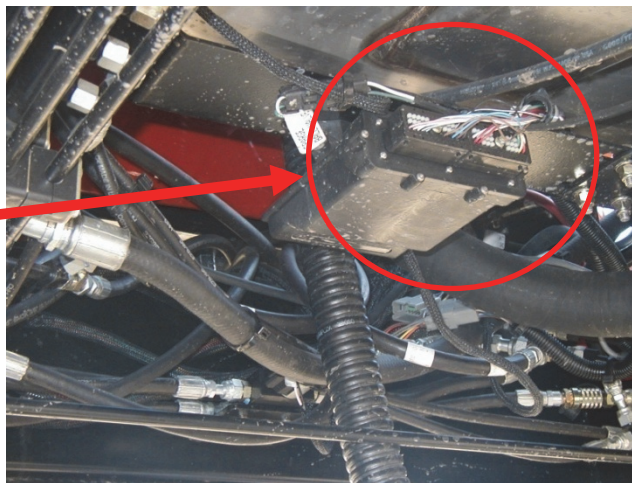


Connect the AccuBoom Cable to the AccuBoom Node

1. Connect the two Cinch rectangular connectors on the AccuBoom cable (P/N 115-0171-688) to the CAN AccuBoom Node (P/N 063-0172-316).

Figure 3: AccuBoom Cable Connected to the Node

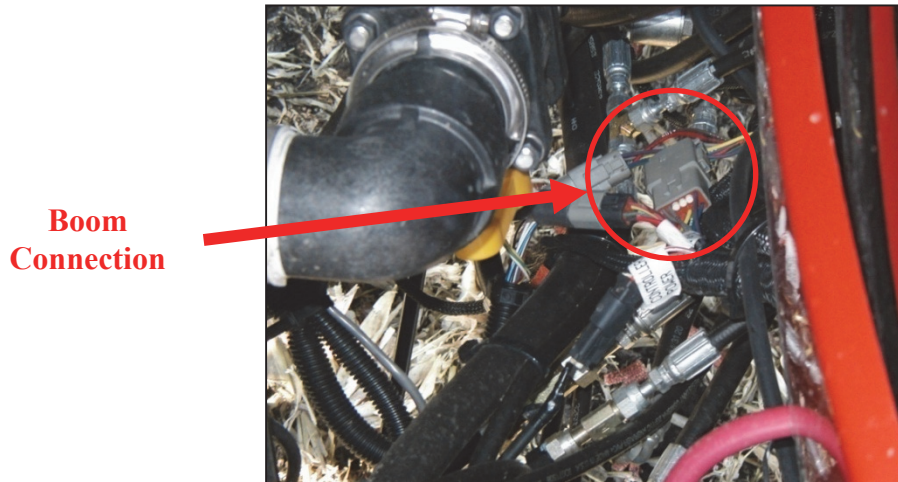
**AccuBoom
Harness
Connection**



Connect the AccuBoom Cable to the Sprayer Boom Harness

1. Unplug the 12-pin Deutsch boom connector located behind the operator cab.
2. Plug the AccuBoom cable (P/N 115-0171-688) 12-pin Deutsch connector into the corresponding boom connector.

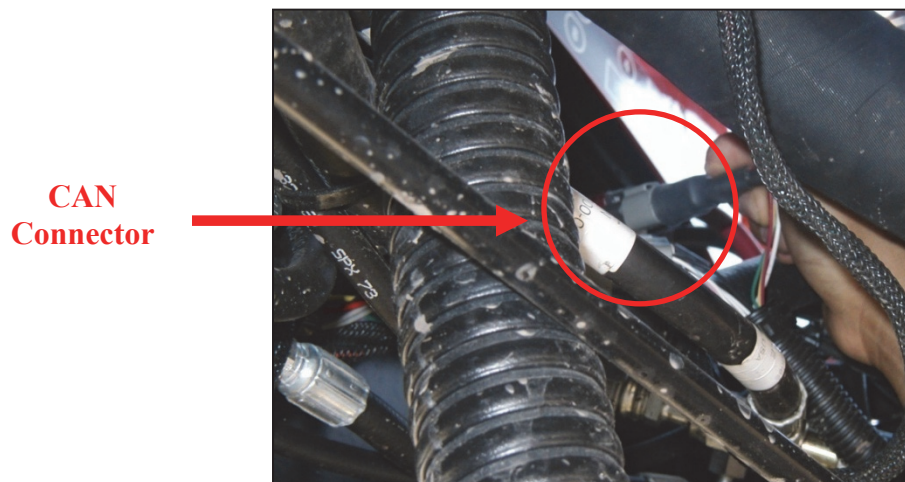
Figure 4: Boom Connection



Connect the AccuBoom Node to the CAN System

1. Locate the sprayer CAN connector located close to the spray boom connector.
2. Remove the CAN terminator from the sprayer CAN connector.
3. Connect the AccuBoom cable (P/N 115-0171-688) to the CAN connection.
4. Connect the previously removed terminator into the other CAN connector on the AccuBoom cable (P/N 115-0171-688).

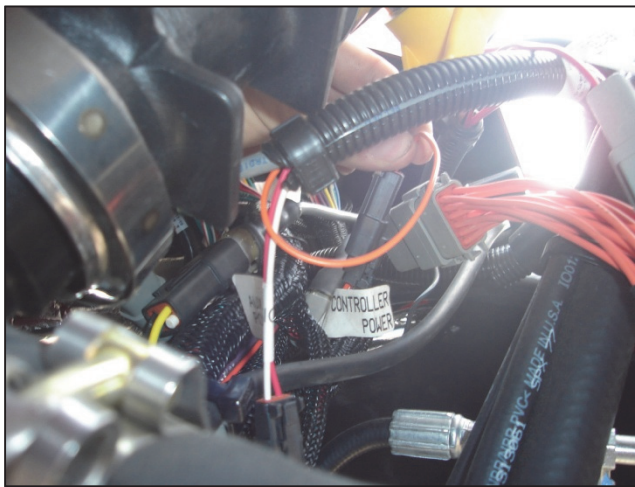
Figure 5: CAN Connection



Connect Power and Ground

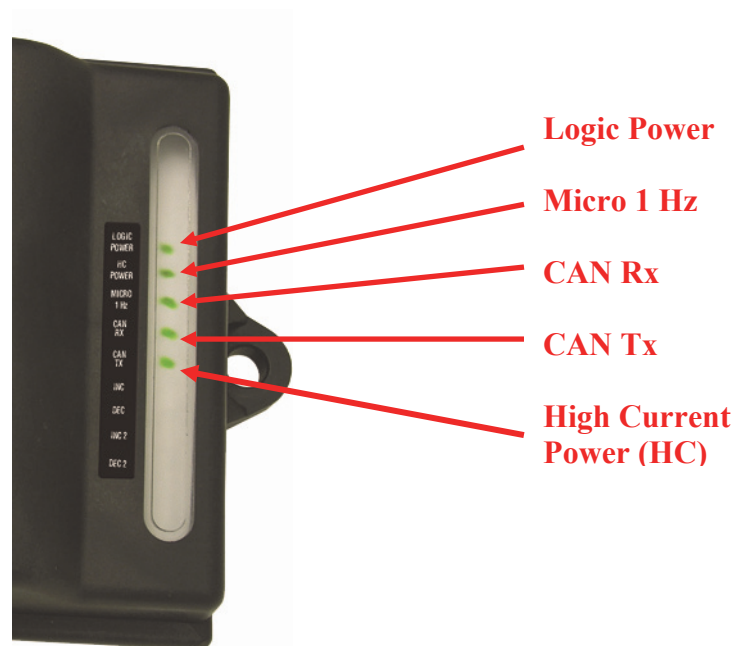
1. Connect the power wire from the AccuBoom cable (P/N 115-0171-688) to a source of battery power.
2. Connect the ground wire from the AccuBoom cable (P/N 115-0171-688) to battery ground.
3. **Model Year 2008 & Newer Only** – Connect the logic power 2-pin Deutsch connector to the machine's 2-pin Deutsch connector labeled Controller Power.
Model Year 2007 & Older Only – Connect the logic power 2-pin Deutsch connector to the source of switched power.

Figure 6: Logic Power Connection at the Rear of the Cab



SYSTEM TROUBLESHOOTING

The CAN AccuBoom node (P/N 063-0172-316) has additional features to allow the user to diagnose the AccuBoom system. The CAN AccuBoom node has a plastic window in the case that allows the user to view green diagnostic lights. The following picture shows the positioning and function of each of the LED lights.



- **Logic Power** – Lit when 12 VDC logic power is available at the node.
- **Micro 1Hz** – Flashes at 1 Hz interval when the processor is active.
- **CAN Rx** – Flashes when CAN messages are being received.
- **CAN Tx** – Flashes when CAN messages are being transmitted.
- **High Current Power** – Lit when high current power is applied to the node.

RAVEN

Limited Warranty

What Does this Warranty Cover?

This warranty covers all defects in workmanship or materials in your Raven Applied Technology Division product under normal use, maintenance, and service when used for intended purpose.

How Long is the Coverage Period?

Raven Applied Technology products are covered by this warranty for 12 months from the date of retail sale. In no case will the Limited Warranty period exceed 24 months from the date the product was issued by Raven Industries Applied Technology Division. This warranty coverage applies only to the original owner and is non-transferable.

How Can I Get Service?

Bring the defective part and proof of purchase to your Raven dealer. If the dealer approves the warranty claim, the dealer will process the claim and send it to Raven Industries for final approval. The freight cost to Raven Industries will be the customer's responsibility. The Return Materials Authorization (RMA) number must appear on the box and all documentation (including proof of purchase) must be included inside the box to be sent to Raven Industries.

What Will Raven Industries Do?

Upon confirmation of the warranty claim, Raven Industries will (at our discretion) repair or replace the defective product and pay for the standard return freight, regardless of the inbound shipping method. Expedited freight is available at the customer's expense.

What is not Covered by this Warranty?

Raven Industries will not assume any expense or liability for repairs made outside our facilities without written consent. Raven Industries is not responsible for damage to any associated equipment or products and will not be liable for loss of profit, labor, or other damages. The obligation of this warranty is in lieu of all other warranties, expressed or implied, and no person or organization is authorized to assume any liability for Raven Industries.

Damages caused by normal wear and tear, misuse, abuse, neglect, accident, or improper installation and maintenance are not covered by this warranty.



Extended Warranty

What Does this Warranty Cover?

This warranty covers all defects in workmanship or materials in your Raven Applied Technology Division product under normal use, maintenance, and service when used for intended purpose.

Do I Need to Register My Product to Qualify for the Extended Warranty?

Yes. Products/systems must be registered within 30 days of retail sale to receive coverage under the Extended Warranty. If the component does not have a serial tag, the kit it came in must be registered instead.

Where Can I Register My Product for the Extended Warranty?

To register, go online to www.ravenhelp.com and select Product Registration.

How Long is the Extended Warranty Coverage Period?

Raven Applied Technology products that have been registered online are covered for an additional 12 months beyond the Limited Warranty for a total coverage period of 24 months from the date of retail sale. In no case will the Extended Warranty period exceed 36 months from the date the product was issued by Raven Industries Applied Technology Division. This Extended Warranty coverage applies only to the original owner and is non-transferable.

How Can I Get Service?

Bring the defective part and proof of purchase to your Raven dealer. If the dealer approves the warranty claim, the dealer will process the claim and send it to Raven Industries for final approval. The freight cost to Raven Industries will be the customer's responsibility. The Return Materials Authorization (RMA) number must appear on the box and all documentation (including proof of purchase) must be included inside the box to be sent to Raven Industries. In addition, the words "Extended Warranty" must appear on the box and all documentation if the failure is between 12 and 24 months from the retail sale.

What Will Raven Industries Do?

Upon confirmation of the product's registration for the Extended Warranty and the claim itself, Raven Industries will (at our discretion) repair or replace the defective product and pay for the standard return freight, regardless of the inbound shipping method. Expedited freight is available at the customer's expense.

What is Not Covered by the Extended Warranty?

Raven Industries will not assume any expense or liability for repairs made outside our facilities without written consent. Raven Industries is not responsible for damage to any associated equipment or products and will not be liable for loss of profit, labor, or other damages. Cables, hoses, software enhancements, and remanufactured items are not covered by this Extended Warranty. The obligation of this warranty is in lieu of all other warranties, expressed or implied, and no person or organization is authorized to assume any liability for Raven Industries.

Damages caused by normal wear and tear, misuse, abuse, neglect, accident, or improper installation and maintenance are not covered by this warranty.