



# CAN Installation Manual

**Miller St. Nazianz Silver Wheels**



## CHAPTER

## 1

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**INTRODUCTION**

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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 your booms with respect to the as-applied coverage map. The following instructions are designed to assist you in the proper installation of the AccuBoom system. See the Viper Installation and Operators Manual for instructions on setting up the software and using the AccuBoom system. You will also need a valid AccuBoom Control Activation Key for your Viper system in order to activate the AccuBoom system.



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

## Components Needed

- Miller St. Nazianz Silver Wheels CAN AccuBoom Installation Kit - P/N 117-1001-016

Kit includes:

- CAN AccuBoom Control Node - P/N 063-0172-316
- Cable, CAN AccuBoom Miller St. Nazianz Silver Wheels - P/N 115-0171-604
- CAN Tee Cable, 12 foot - P/N 115-0171-362
- AccuBoom Control Activation Key - P/N 077-0180-010
- Miller St. Nazianz Silver Wheels CAN AccuBoom Installation Manual - P/N 016-0171-027

**Notes:**

## CHAPTER

# 2

## INSTALLATION

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Use the following procedure to properly install the CAN AccuBoom on a Miller St. Nazianz Silver Wheels sprayer:

1. Mount the CAN AccuBoom node on the connector cover located on the right side of the Silver Wheels cab.
  - a. Drill three holes in the connector cover mounted on the right side of the operator cab, being careful not to drill into the cables or connectors located under the cover.
  - b. Securely bolt the CAN AccuBoom node (P/N 063-0172-316) to the connector cover as shown.



2. Connect the AccuBoom cable to the AccuBoom node.
  - a. Connect the rectangular connectors from the AccuBoom cable (P/N 115-0171-604) to the CAN AccuBoom node (P/N 063-0172-316).

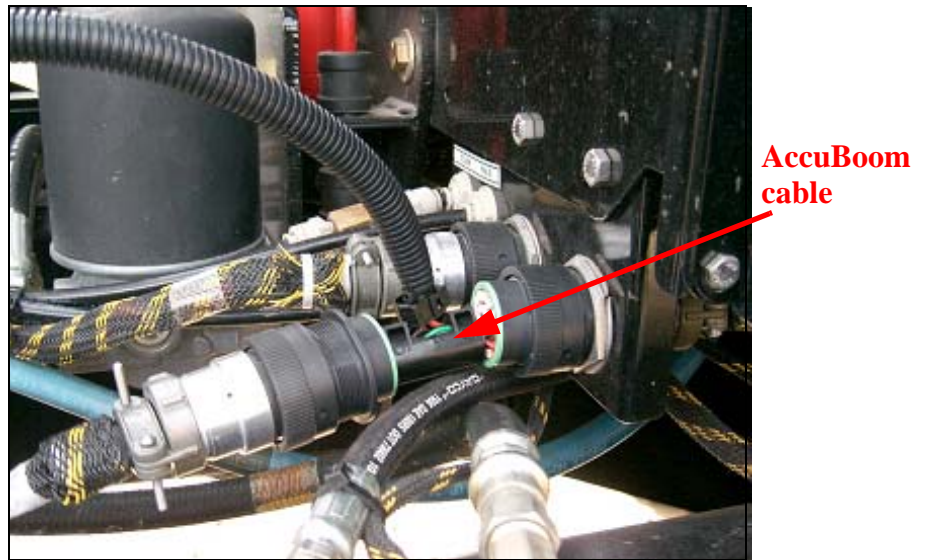


3. Connect the AccuBoom cable to the sprayer boom harness:
  - a. Disconnect the right most circular Deutsche connector from the connector bracket located at the rear right corner of the operator cab.

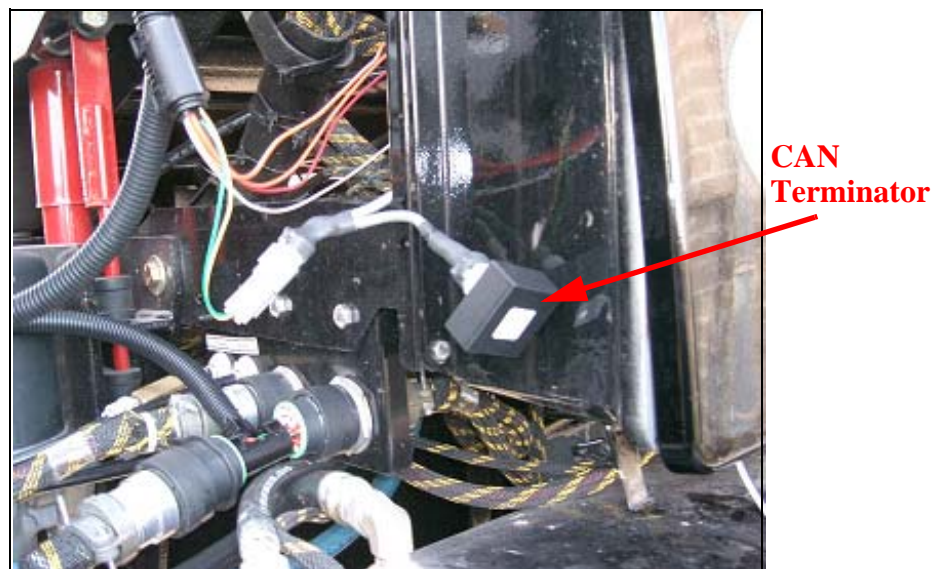




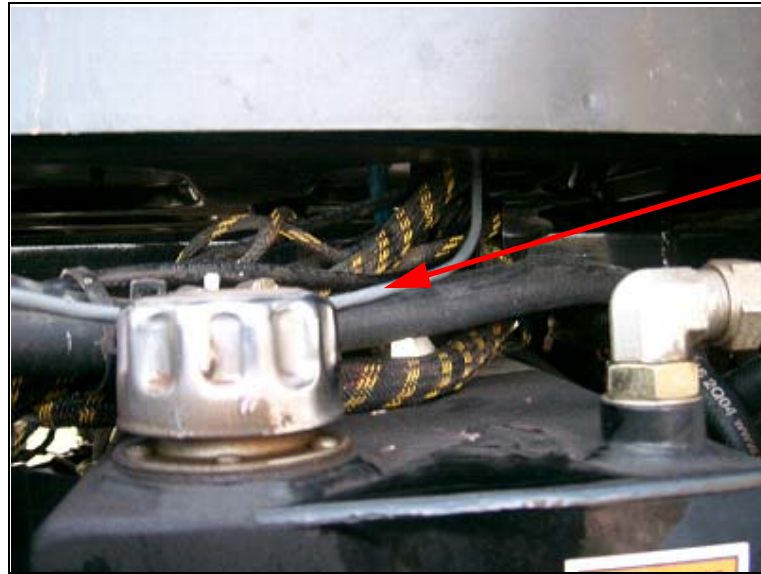
- b. Connect the corresponding round Deutsche connectors from the AccuBoom cable (P/N 115-0171-604) to the cable connector and the bulkhead mounted Deutsche connector.



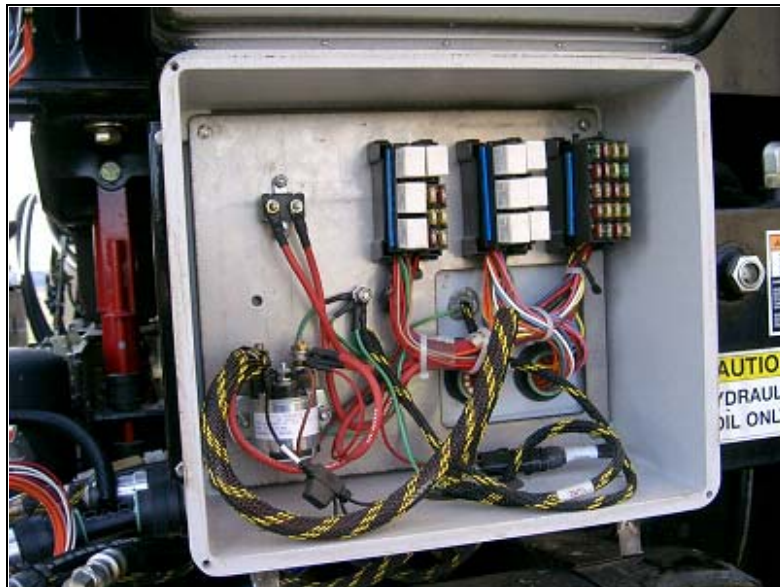
4. Route the CAN and power cables from the AccuBoom node to the cab.
  - a. Connect the 12 foot CAN tee cable (P/N 115-0171-362) to the CAN connector located on the AccuBoom cable (P/N 115-0171-604).
  - b. Remove the CAN tee terminator (P/N 063-0172-369) from the end of the CAN cable located on the Viper harness.
  - c. Connect the CAN terminator (P/N 063-0172-369) to the other CAN connector on the CAN tee cable (P/N 115-0171-362) and secure in place.



- d. Route the CAN tee cable (P/N 115-0171-362) along the right side of the operator cab and up through the cable connector boot located in the floor of the operator cab.



- e. Open the power distribution box located on the right side of the operator cab.



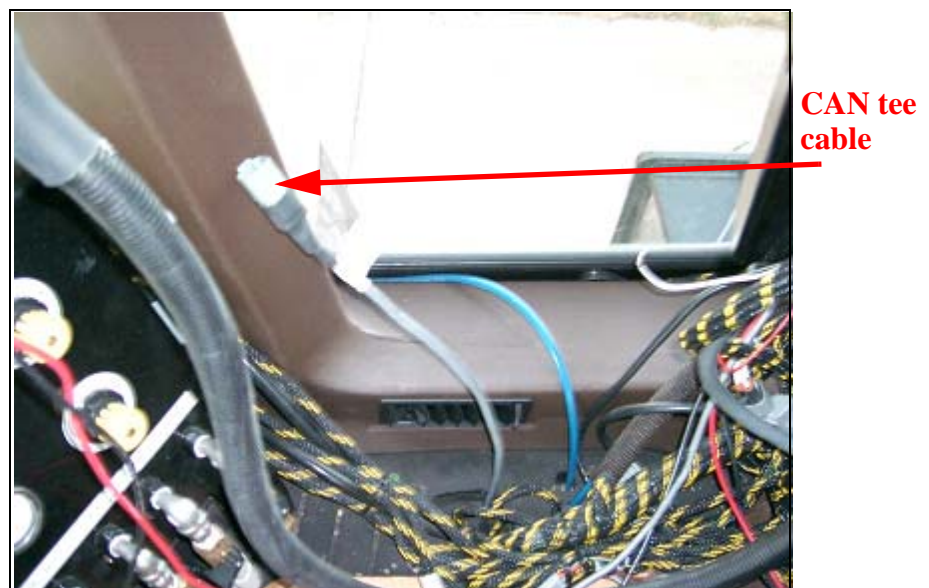
- f. Drill a hole in the side of the box and route the red and white power and the ground wires through the previously drilled holes. Seal the wires and the hole using silicon caulk.



- g. Wire the red power wire to the secondary side of the power relay and the ground wire to the ground connection.



5. Locate the CAN tee cable (P/N 115-0171-362) that was previously routed up into the cab and connect the cable to the Viper CANbus system.



6. The CAN AccuBoom installation is now complete. Install the Activation Key into the Viper system and program the Look-ahead values in the AccuBoom Look-ahead setup screen. See the Viper Installation and Operator's Manual for more information on setting this value.

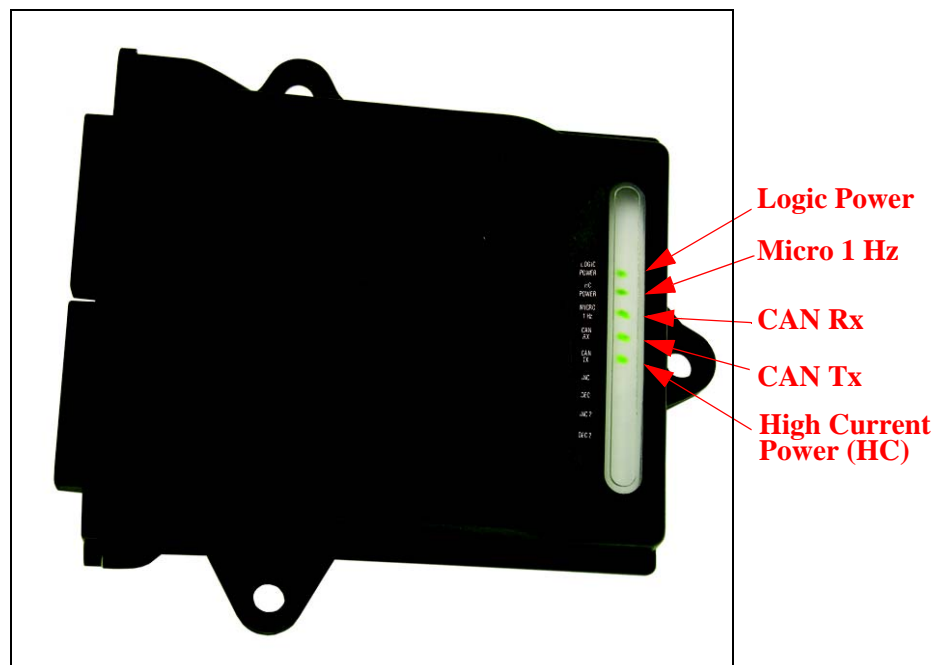
**Notes:**

## CHAPTER

## 3

## 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 picture below shows the positioning of the lights.



- **Logic Power:** Lit when 12VDC logic power is available at the node.
- **Micro 1 Hz:** Flashes at 1 Hz interval when 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 INDUSTRIES**

## **LIMITED WARRANTY**

### **WHAT IS COVERED?**

This warranty covers all defects in workmanship or materials in your Raven Flow Control Product under normal use, maintenance, and service.

### **HOW LONG IS THE COVERAGE PERIOD?**

This warranty coverage runs for 12 months from the purchase date of your Raven Flow Control Product. This warranty coverage applies only to the original owner and is not transferrable.

### **HOW CAN YOU GET SERVICE?**

Bring the defective part, and proof of date of purchase, to your local dealer. If your dealer agrees with the warranty claim, he will send the part, and proof of purchase to his distributor or to Raven for final approval.

### **WHAT WILL RAVEN INDUSTRIES DO?**

When our inspection proves the warranty claim, we will, at our option, repair or replace the defective part and pay for return freight.

### **WHAT DOES THIS WARRANTY NOT COVER?**

Raven Industries will not assume any expense or liability for repairs made outside our plant without written consent. We are not responsible for damage to any associated equipment or product and will not be liable for loss of profit or other special damages. The obligation of this warranty is in lieu of all other warranties, expressed or implied, and no person is authorized to assume for us any liability. Damages caused by normal wear and tear, mis-use, abuse, neglect, accident, or improper installation and maintenance are not covered by this warranty.



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