

**Case SPX 3150/3185/3200
Sprayer with Raven SCS 460
Console
AccuBoom™
Installation Manual**

P/N 016-0171-081 Rev B 01-16

CHAPTER

1

INTRODUCTION

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 your Console Operation Manual for instructions on setting up the software and using the AccuBoom system.



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

COMPONENTS NEEDED

- CAN AccuBoom Control Node: P/N 063-0172-316
- CASE3150/3185/3200 CAN AccuBoom Cable: P/N 115-1001-011
- 6' CAN Tee Cable: 115-0171-326
- AccuBoom installation Manual, CASE SPX3150/3185/3200:
P/N 016-0171-081



Important: If no CAN system currently exists on the machine you are installing AccuBoom on, you will need these additional components:

Kit, CANBus, Terminators & Power Adapter
“T” – P/N 117-0159-923

Notes:

CHAPTER 2 INSTALLATION

Use the following procedure to properly install the AccuBoom system on a CASE SPX3150/3185/3200 sprayer.

1. Open the access door located on the left side of the cab.



2. Locate the boom control cable located toward the rear of the cable compartment.



3. Disconnect the 6 pin boom connections.



Important! There may be two sets of 6 pin connectors. Be sure you have located the connectors coming from the boom switches.

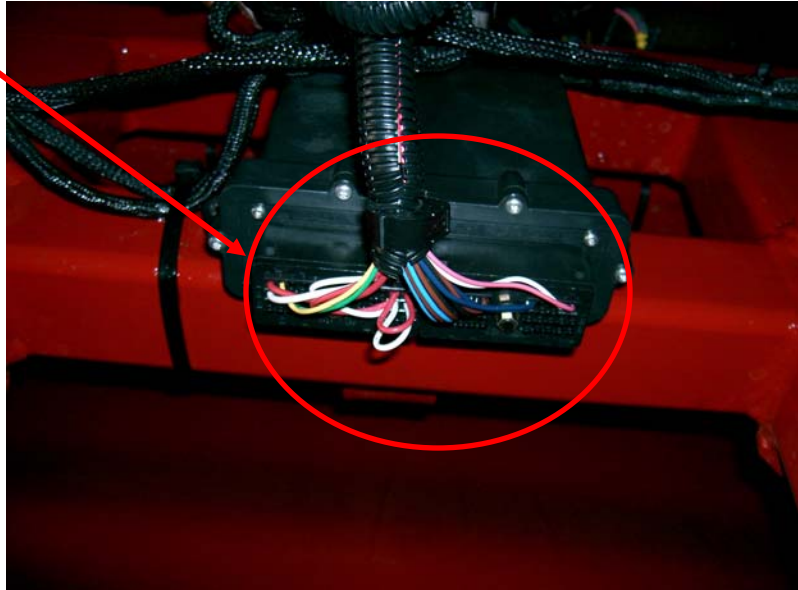


4. Plug the mating connectors from the CAN AccuBoom cable P/N 115-1001-011 to the corresponding connectors previously disconnected.



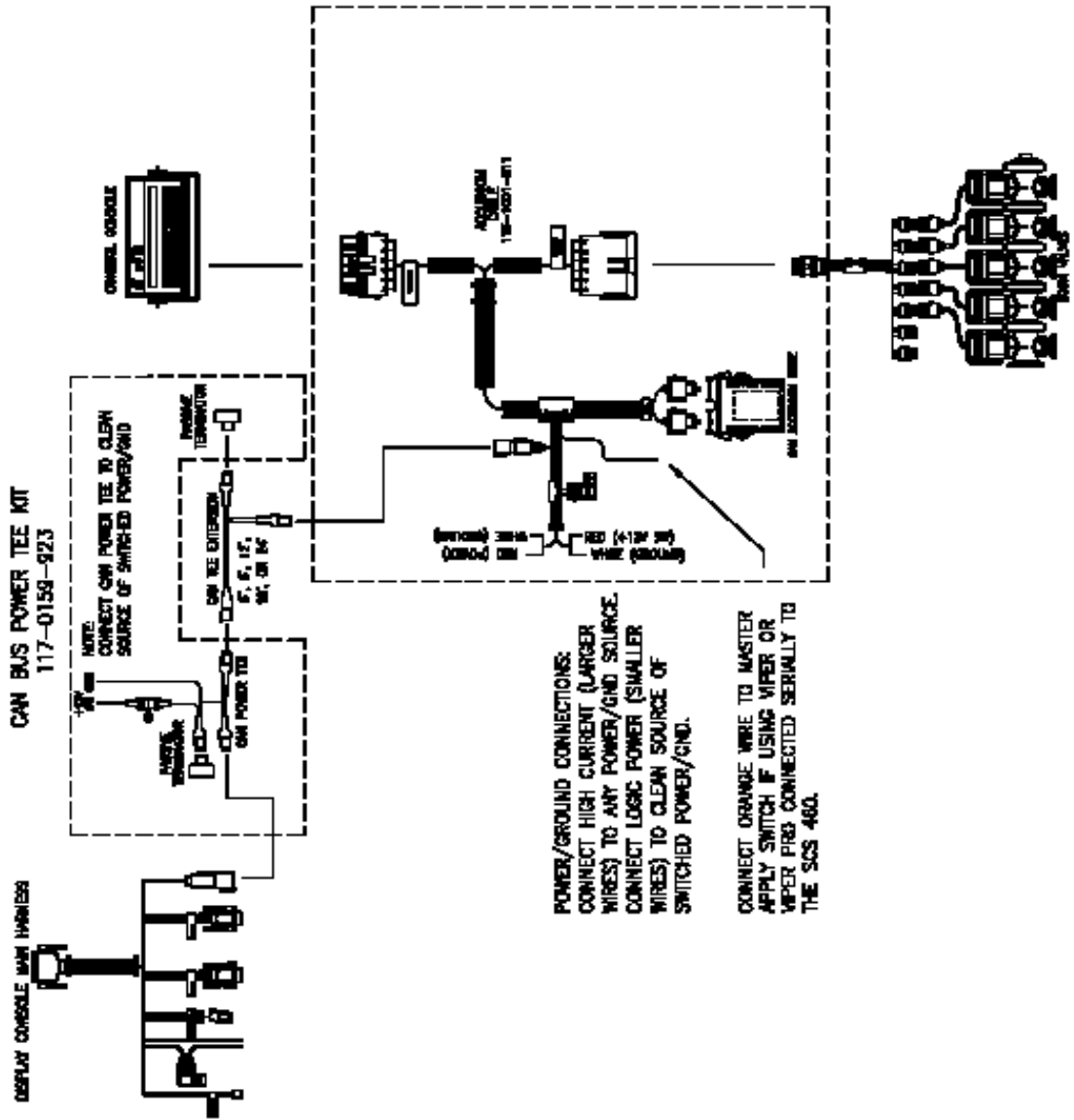
5. Mount the CAN AccuBoom node in a suitable location in the cable compartment.
6. Connect the AccuBoom cable to the AccuBoom node.
 - a. Connect the rectangular connectors from the AccuBoom Cable P/N 115-1001-011 to the CAN AccuBoom Node P/N 063-0172-316.

Node Connection



7. Connect supplied CAN Tee cable (115-0171-326) to the CAN connection on the CAN AccuBoom cable P/N 115-1001-011.
8. If using a Viper or Viper Pro console connected serially to the SCS 460, connect the orange wire from the AccuBoom harness (115-1001-011) to the Master Apply Switch so that the orange wire is supplied power when the Master Apply switch is in the "ON" position. If you are not using a Viper or Viper Pro connected serially to the SCS 460, orange wire is not needed for installation.

CASEIH 3150/3185/3200/4260 (PAT. CAB) ACCUBOOM INSTALL SCHEMATIC SCS 4X0/6X0 CONTROLLER



9. Connect a CAN terminator P/N 063-0172-369 to the end of the CAN cable P/N 115-0171-362.



Note: If the machine already has a CAN system installed, remove the terminator from the existing CAN system and move it to the CAN cable previously installed. If no CAN system exists on the machine, refer to Chapter 3 and use one of the terminators contained in the CAN Tee With Power kit P/N 117-0159-923.

10. Connect the CAN system.
 - a. Connect the single end of the CAN cable P/N 115-0171-326 to the CAN bus or to the CAN PWR Tee system installed in Chapter 3.



11. Connect power and ground.
 - a. Wire the red power wire to a clean source of switched 12 volt power.
 - b. Connect the white ground wire directly to the battery ground.
12. The CAN AccuBoom installation is now complete.

Notes:

CHAPTER

3

CAN INSTALLATION

If the machine you are working on does not currently have a Raven CAN system, you will need a Kit, CANbus, Terminators & Power Adapter “T” P/N 117-0159-923. This kit contains the CAN Cable Adapter Tee With Power P/N 115-0171-368 and two(2) CANBus Terminators P/N 063-0172-369. To install a Raven CAN system:

1. Connect CAN Tee to power and ground.
 - a. Locate a convenient source of power and ground near the control system.
 - b. Connect the red wire of the CAN Cable Adapter Tee With Power P/N 115-0171-368 to a source of clean 12 volt power.
 - c. Connect the white wire from the CAN Cable Adapter Tee With Power P/N 115-0171-368 to a clean battery ground.



2. Connect the CAN bus to the Controller.
 - a. Connect CAN Terminator P/N 063-0172-369 to one connector on the Can Cable Adapter Tee With Power P/N 115-0171-368.



- b. Connect the second connector on the CAN Cable Adapter Tee With Power P/N 115-0171-368 to the CAN connector on the Envizio or Viper interface cable.



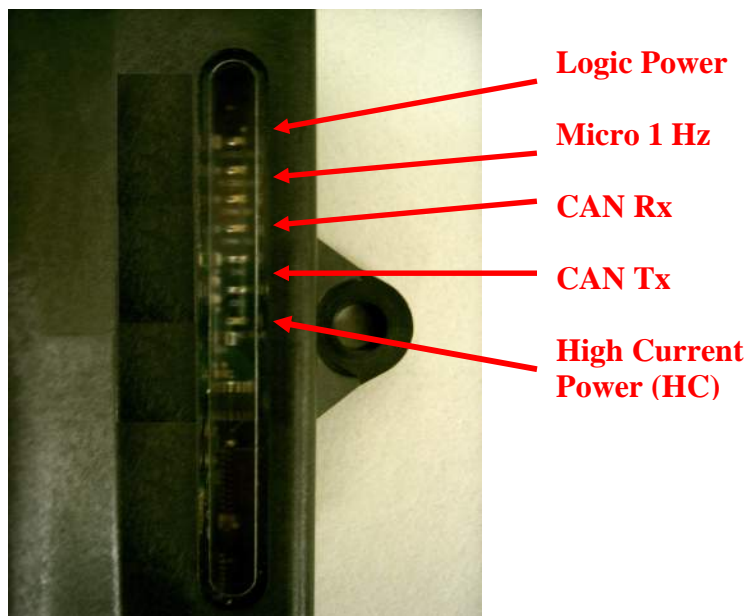
The CAN bus system is now installed and CAN nodes may be connected to it.

CHAPTER

4

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 and function of each of the LED 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.

Notes:

RAVEN

RAVEN INDUSTRIES

Limited Warranty

What Does this Warranty Cover?

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

How Long is the Coverage Period?

Raven Applied Technology Products are covered by this warranty for 12 months after the date of purchase. This warranty coverage applies only to the original owner and is nontransferable.

How Can I Get Service?

Bring the defective part and proof of purchase to your Raven Dealer. If your Dealer agrees with the warranty claim, the Dealer will send the part and proof of purchase to their distributor or to Raven Industries for final approval.

What Will Raven Industries Do?

Upon confirmation of the warranty claim, Raven Industries will, at our discretion, repair or replace the defective part and pay for return freight.

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 or other special 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.