

**Hagie Sprayers**  
**AccuBoom™ Installation Manual**

*P/N 016-0171-029 Rev A 09/15*

## CHAPTER

## 1

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**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 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

- Hagie CAN AccuBoom Installation Kit includes:
  - CAN AccuBoom Control Node - P/N 063-0172-316
  - Cable, CAN AccuBoom Hagie - P/N 115-0171-631
  - CANbus Cable, 6 foot (includes tee) - P/N 115-0171-326
  - AccuBoom Control Activation Key - P/N 077-0180-010
  - Hagie Sprayers CAN AccuBoom Installation Manual - P/N 016-0171-029

**Notes:**

CHAPTER

2

INSTALLATION

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Use the following procedure to properly install the CAN AccuBoom on a Hagie sprayer with Viper CAN systems:

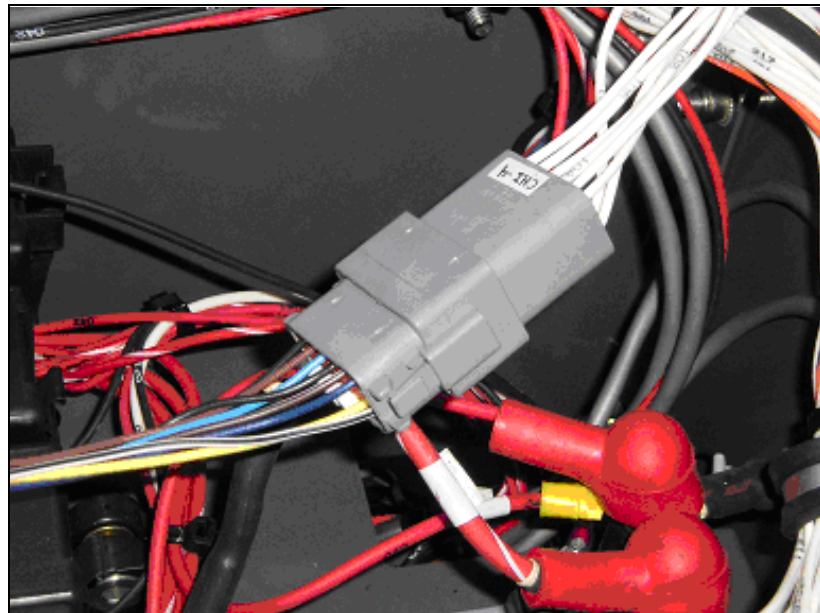
1. Connect the CAN AccuBoom cable (P/N 115-0171-631) to the control switch harness:
  - a. Remove the two knobs securing the Hagie control console in place and swing the control console open.



- b. Locate the booms switch interface connectors. These are 12-pin rectangular Deutsche connectors.



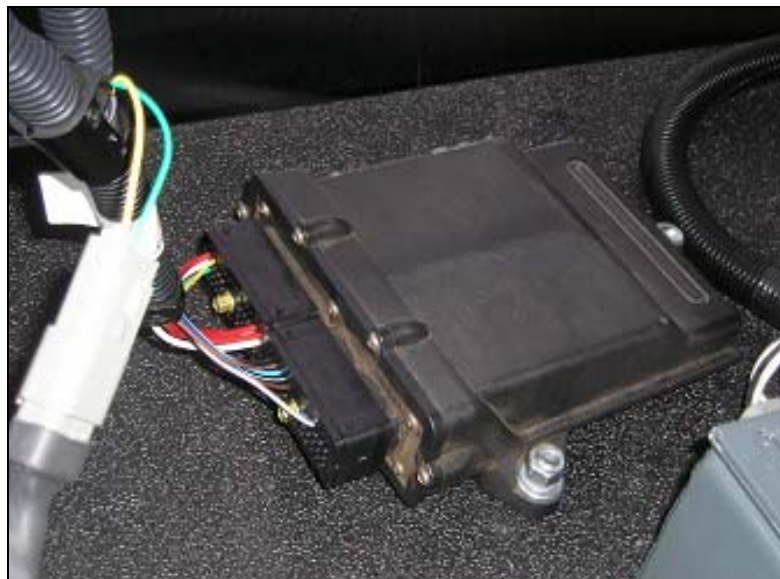
- c. Disconnect the existing connectors.
- d. Connect the Parallel AccuBoom cable (P/N 115-0171-631) to the 12-pin Deutsche connector on the cable leading away from the switches. The 12-pin connector coming from the switches is left disconnected.



2. Mount the CAN AccuBoom Node (P/N 063-0172-316) in the cab.



3. Connect the CAN AccuBoom cable (P/N 115-0171-631) to the CAN AccuBoom Node (P/N 063-0172-316).



4. Connect the CANbus cable to the CAN AccuBoom cable (P/N 115-0171-631):
  - a. Remove the CAN terminator (P/N 063-0172-369) from the Viper CAN cable.
  - b. Connect the CANbus cable (with tee, P/N 115-0171-326) to the Viper CAN cable.
  - c. Connect the other end of the CANbus cable (with tee, P/N 115-0171-326) to the CAN AccuBoom cable (P/N 115-0171-631).
  - d. Install the previously removed CAN terminator (P/N 063-0172-369) to the other connector on the CANbus cable (with tee, P/N 115-0171-326).

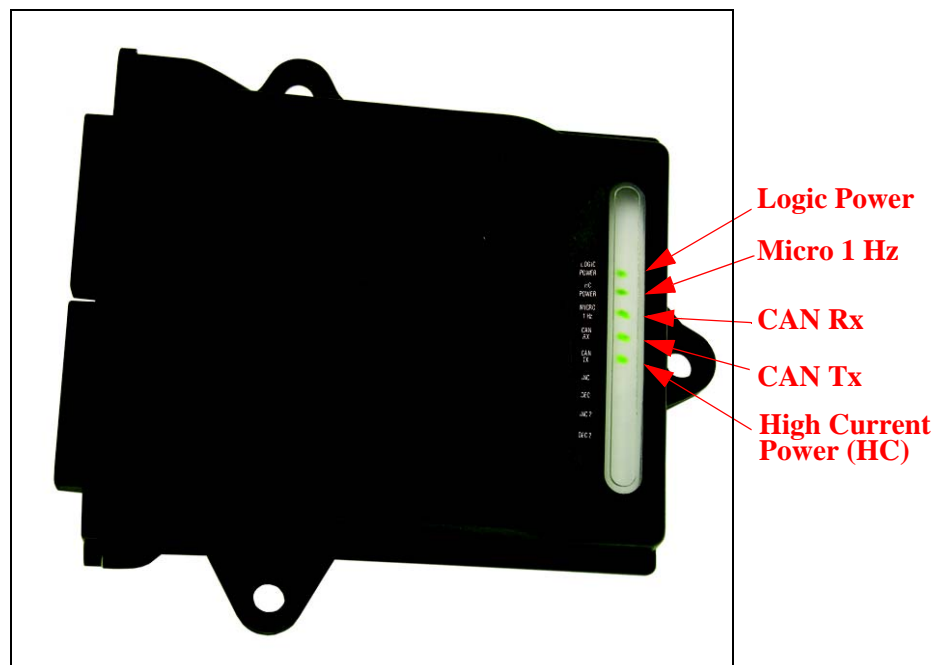


## CHAPTER

## 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**

# **RAVEN INDUSTRIES**

## **Limited Warranty**

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### ***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.