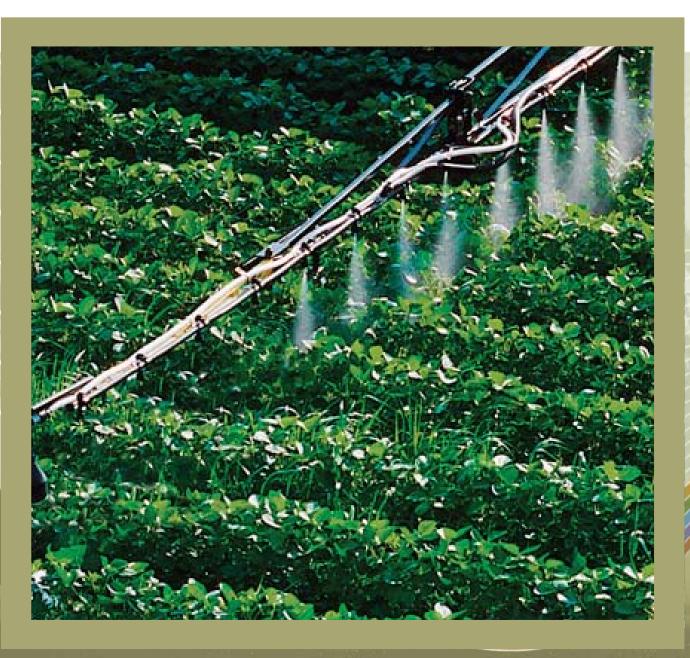


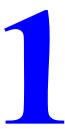
Simply improving your position.[™]

AccuBoom™ Installation Manual



GVM Predator and Prowler ('08 & Older)

C H A P T E R



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

• GVM Predator and Prowler CAN AccuBoom Kit - P/N 117-1001-014

Kit includes:

- CAN AccuBoom Control Node P/N 063-0172-316
- Cable, CAN AccuBoom GVM Prowler/Predator P/N 115-0171-591
- CAN Tee Cable, 12 foot P/N 115-0171-362
- AccuBoom Control Activation Key P/N 077-0180-010
- GVM Predator and Prowler CAN Installation Manual P/N 016-0171-014

GVM Predator and Prowler ('08 & Older) C	CAN AccuBoom Installation Manual
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Notes:

C H A P T E R

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INSTALLATION

Use the following procedure to properly install the CAN AccuBoom on a GVM Prowler or Predator sprayer:

- 1. Connect the AccuBoom cable to the AccuBoom node.
 - a. Connect the rectangular connectors from the AccuBoom cable (P/N 115-0171-591) to the CAN AccuBoom node (P/N 063-0172-316).
- 2. Mount the CAN AccuBoom node on the rear of the machine:
 - a. Remove the rectangular cover located on the back of the machine at the center of the booms. This cover protects the hydraulic valves.
 - b. Drill three holes in the side of the cover and mount the Raven CAN AccuBoom node (P/N 063-0172-316) on the inside of the cover.
 - c. Re-install the cover on the machine.

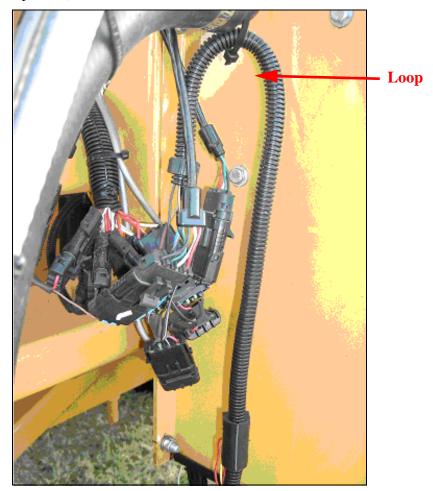


- 3. Connect the AccuBoom cable to the sprayer boom harness:
 - a. Locate the boom valve connectors, which are on the left side of the rectangular cover previously removed and re-installed.
 - b. Unplug the 4 pin boom cable for boom valve 1.
 - c. Tee in the boom connectors labeled boom 1 on the Raven AccuBoom cable (P/N 115-0171-591).
 - d. Repeat for each of the other remaining boom valves.



Connectors

4. Fasten the AccuBoom cable (P/N 115-0171-591) with a loop as shown in the picture, so that no rainwater can enter the cable.



- 5. Route the CAN and power cables form the AccuBoom node to the cab:
 - a. Locate the CAN terminator behind the right corner of the machine cab.
 - b. Remove the CAN terminator (P/N 063-0172-369) from the CAN cable.
 - c. Connect the 24 foot CAN tee cable (P/N 115-0171-363) in place of the CAN terminator previously removed.
 - d. Route the CAN tee cable (P/N 115-0172-363) back to the previously installed CAN AccuBoom cable (P/N 115-0171-591).
- 6. Connect the CAN cable to the product CANbus.
 - a. Connect the CAN tee cable (P/N 115-0172-363) to the CAN AccuBoom cable (P/N 115-0172-591).
 - b. Install the previously removed CAN terminator (P/N 063-0172-369) to the other connector of the CAN tee cable (P/N 115-0171-363).
- 7. Connect power and ground:
 - a. Route the red power and white ground wire to the control box located behind the right corner of the machine cab.
 - b. Connect the red power wire to a source of clean, switched battery power.
 - c. Connect the white ground wire directly to the battery ground.
- 8. The GVM Prowler/Predator CAN AccuBoom installation is now complete. Install the AccuBoom Activation Key in Viper and the AccuBoom system is ready for operation.

C H A P T E R



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.

R A V E N 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?

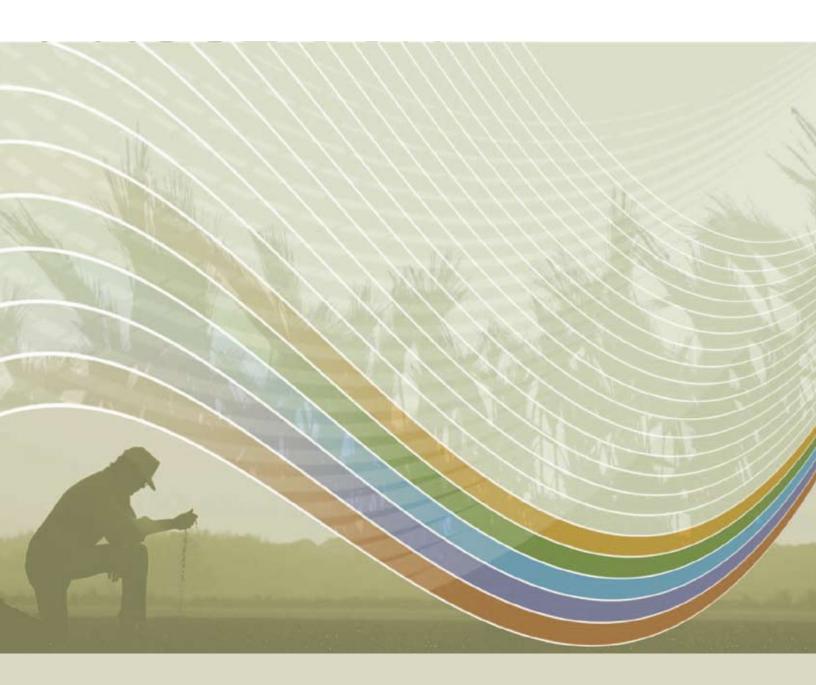
Raven Industries will not assume any expense or liability for repairs made outside our facilities without written consent. Raven Industries is not responsible for damage to any associated equipment or products and will not be liable for loss of profit or other special damages. The obligation of this 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.



GVM Predator and Prowler ('08 & Older) AccuBoom™ Installation Manual (P/N 016-0171-014 Rev A 3/09)

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