

RAVEN

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CAN AccuBoom Installation Manual



Redball Self-Propelled

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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 the Installation and Operation Manual of your particular console for instructions on setting up the software and using the AccuBoom system.

Basic Kit Contents

- ◆ AccuBoom CAN Node
- ◆ Machine Specific or Standard Console Cable
- ◆ CAN Tee Cable: 6", 6', 12', 18', or 24' long
- ◆ Install Manual



Helpful Hint: If no CAN system currently exists on the machine, an additional CAN Power Tee Kit is required.



Important! All boom switches must be in the ON position while AccuBoom control is in operation! Master switch must be in the ON position while AccuBoom control is in operation!

Notes:

CHAPTER

2

INSTALLATION

Use the following procedure to properly install the CAN AccuBoom system.

1. Locate boom valve connectors on the center rack. Disconnect the boom valve harness and connect the Accuboom harness. The existing boom valve harness connections will remain disconnected. Depending on the size of the boom, sections 6 and 7 may or may not be used.
2. NOTE: If doing a factory install, the existing boom valve harness running from the cab to the boom valves will not be needed. Power and ground are supplied to the boom valves via the Accuboom harness.



Connect Accuboom harness to boom valves

3. Drill 2 holes in the center rack frame and mount the Accuboom Node using the supplied 3/8"-16-1" bolts and 3/8"-16 nylon lock nuts.

4. Connect the Accuboom harness to the Accuboom Node.



Mount Accuboom Node to center rack.

5. Route power leads along existing wiring harness. Route larger, 12 ga. red wire and 2 white wires through access hole of battery box and connect to battery.



Connect larger pwr/gnd wires to battery.

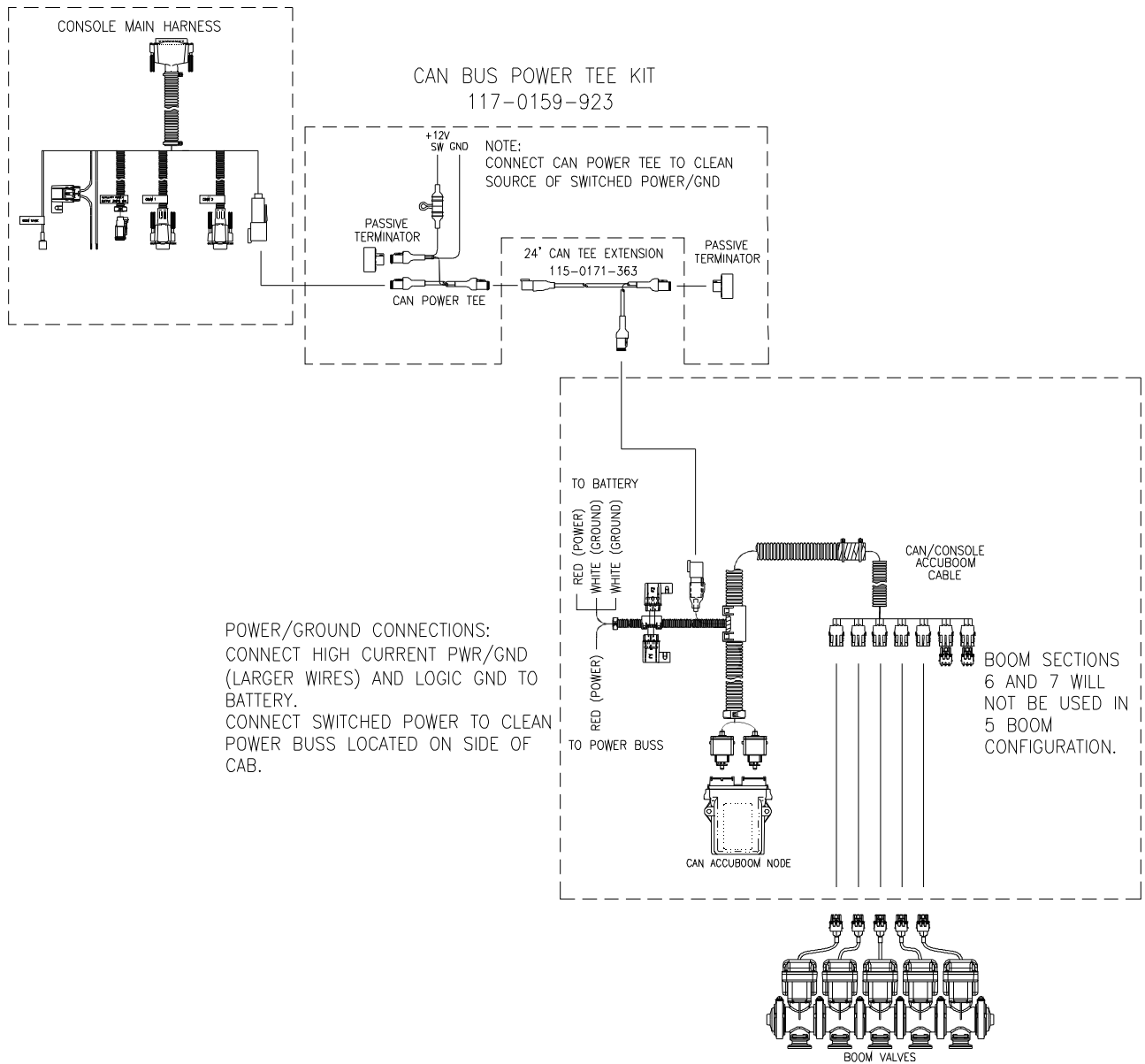
6. Locate and remove access panel on the right side of the cab. Route the single red 16 ga. wire through wiring harness access hole in the rear of the cab and connect to a clean switched power buss bar.



Connect to clean power buss bar.

7. Replace access cover. Installation is complete.

REDBALL SELF-PROPELLED ACCUBOOM INSTALL SCHEMATIC



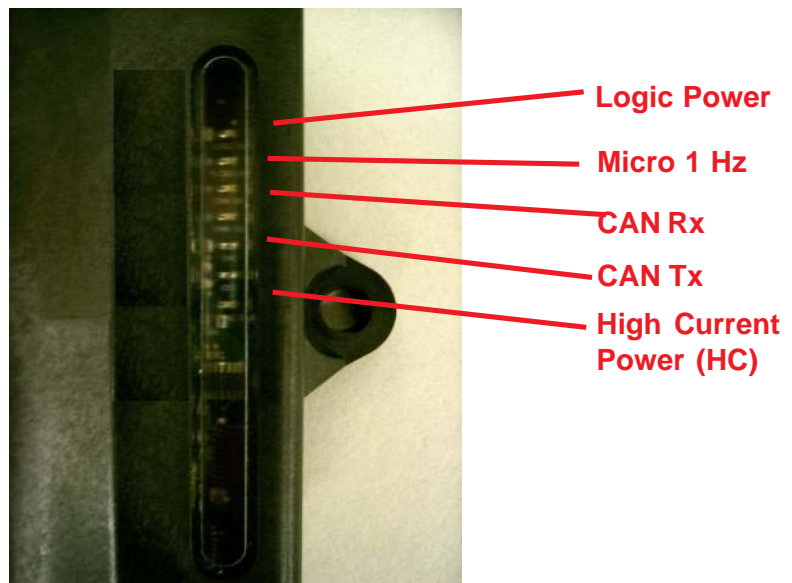
Notes:

CHAPTER

3

DIAGNOSTICS

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:

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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.

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(P/N 016-1001-065 Rev A 12/09)

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