

RAVEN

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AccuBoom™ Installation Manual



Miller Condor Series (CAN Product Control)

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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 Cable (P/N 115-1001-019)
- CAN Tee Cable 24' Long (P/N 115-0171-36)
- Install Manual (P/N 016-1001-053)
- Node Mounting Kit (P/N 117-0171-186)



Note: 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.

Notes:

CHAPTER

2

INSTALLATION

**Mounting the
CAN Node**

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

1. Locate the center rack cross-member on the right rear corner of chassis.
2. Attach the CAN node mounting bracket to the cross-member using the supplied U- bolts and hardware. (See Figure 1)
3. Attach the CAN node to the CAN node mounting bracket using supplied Hardware. (See Figure 1)

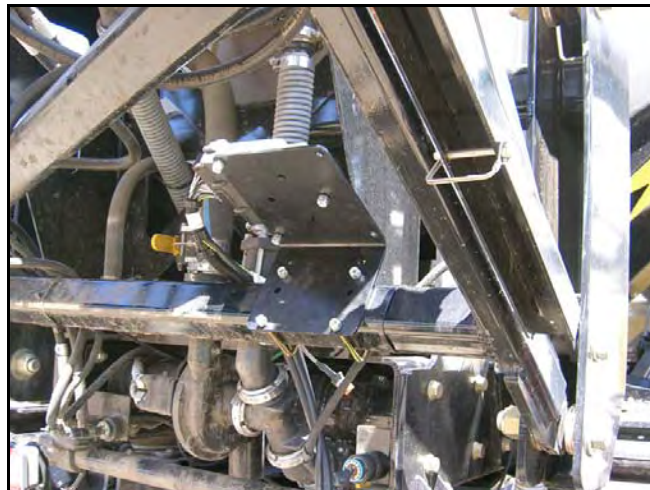


Figure 1: Mounting CAN Node

Installing the Cable

1. Attach the AccuBoom harness to the CAN node.
2. Locate the existing bulkhead connector on the right rear corner of chassis and disconnect. (See Figure 2)

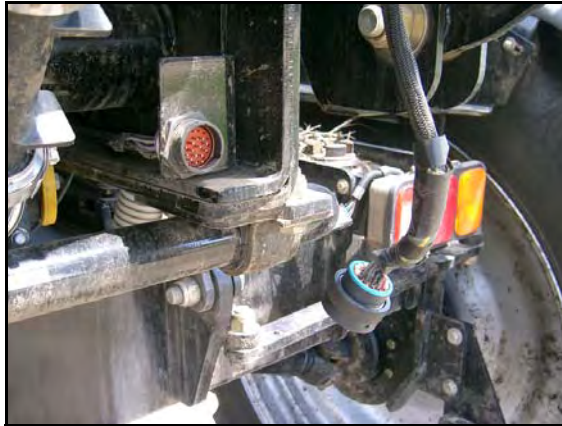


Figure 2: Bulkhead Connector

3. Tee in AccuBoom harness between the bulkhead and the previously disconnected harness. (See Figure 3)



Figure 3: Tee in AccuBoom Harness

4. Connect the CAN Tee cable to the AccuBoom harness and connect to the Raven CAN Bus. Attach the terminator to the CAN tee Cable.

Connecting the Power

1. Locate the battery box near the access ladder. (See Figure 4)



Figure 4: Battery Box

2. Route the AccuBoom harness power lead to the battery box and connect directly to the battery. (See Figure 5)



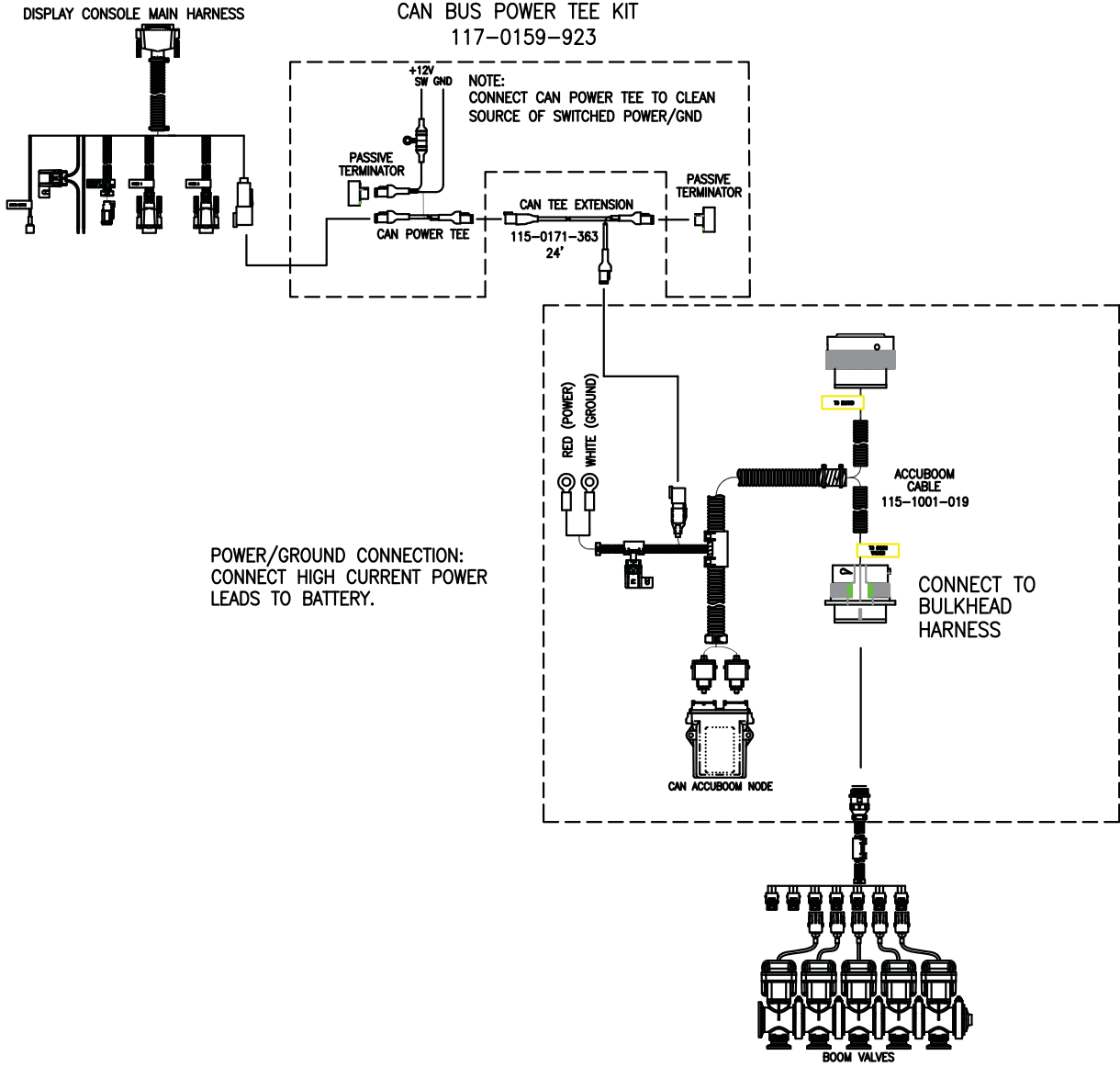
Figure 5: Connect Power Lead to the Battery.

3. Neatly secure any excess harness using the supplied zip ties.
4. Installation is complete.



Note: Refer to the specific console operator's manual for instructions on setting up the software and using the AccuBoom system.

MILLER CONDOR SERIES ACCUBOOM INSTALL SCHEMATIC CAN PRODUCT CONTROL

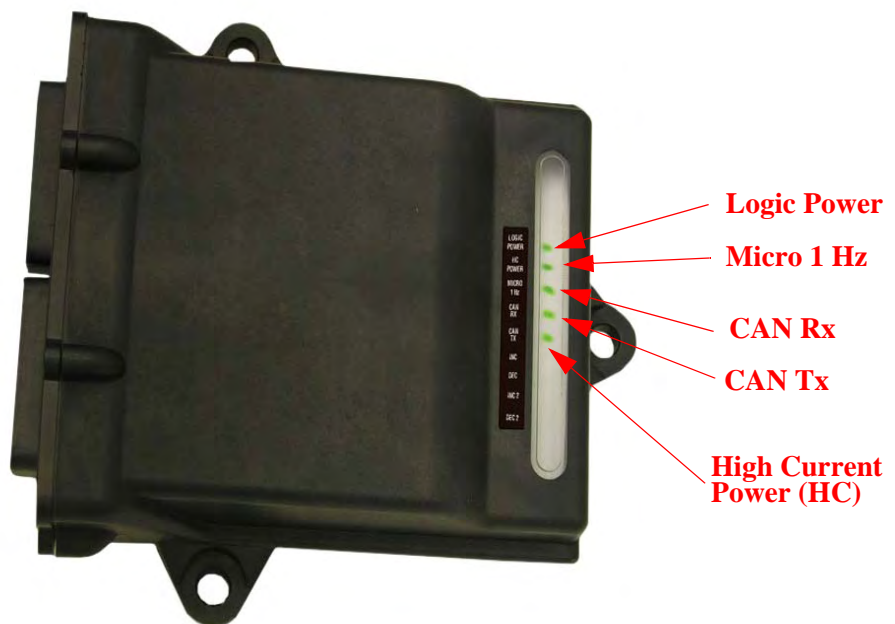


CHAPTER

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 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.

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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.

R A V E N

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Raven Industries
Applied Technology Division
P.O. Box 5107
Sioux Falls, SD 57117-5107

Toll Free (U.S. and Canada): (800)-243-5435
or Outside the U.S. :1 605-575-0722
Fax: 605-331-0426
www.ravenprecision.com
atdinfo@ravenind.com

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