AccuBoom
Automatic Boom Control Option

Hagie STS Series 4600 + Viper Consoles

C H A P T E R

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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 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 OFF position while AccuBoom control is in operation! The master switch must be in the ON position while AccuBoom control is in operation!

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INSTALLATION

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

1.   Disconnect 37 pin connector on the SCS 4600 console and tee in the Accuboom harness (115-1001-013).

Tee into SCS 4600 Console Cable

2.   Open the armrest and locate the 12 pin boom switch connectors. Tee in the Accuboom harness (115-1001-013).
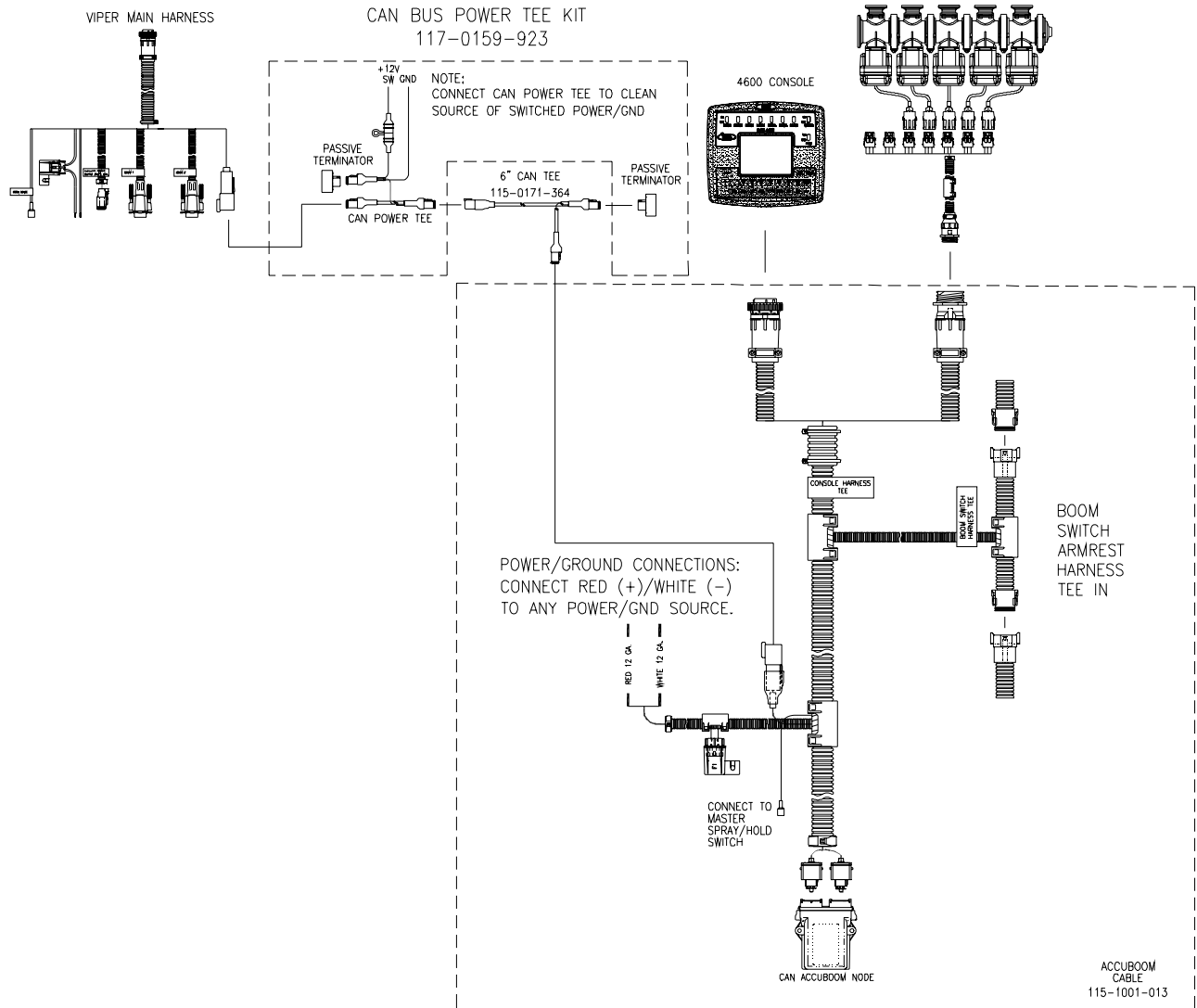

Tee into boom switch harness

3. Attach Autoboom Node (063-0172-316) to the Accuboom harness (115-1001-013). Connect the 12 gauge red/white wires to a good source of pwr/gnd.

4. If the remote master switch was connected to the SCS 4600 console cable prior to installing the Accuboom, installation is complete. If the remote master was not connected to the SCS 4600, you will need to connect the remote master switch to the orange/white wire on the Accuboom harness (115-1001-013). Installation is now complete.

Connect org/wht wire to remote master if not previously wired into the SCS 4600 console.

HAGIE STS 4600/VIPER ACCUBOOM INSTALL SCHEMATIC

VIPER MAIN HARNESS

CAN BUS POWER TEE KIT
117-0159-923

+12V
SW GND

NOTE:
CONNECT CAN POWER TEE TO CLEAN
SOURCE OF SWITCHED POWER/GND

4600 CONSOLE

PASSIVE
TERMINATOR

6" CAN TEE
115-0171-364

PASSIVE
TERMINATOR

CAN POWER TEE

CONSOLE HARNESS
TEE

BOOM SWITCH
HARNESS TEE

BOOM
SWITCH
ARMREST
HARNESS
TEE IN

POWER/GROUND CONNECTIONS:
CONNECT RED (+)/WHITE (−)
TO ANY POWER/GND SOURCE.

RED 12 GA.

WHITE 12 GA.

CONNECT TO
MASTER
SPRAY/HOLD
SWITCH

CAN ACCUBOOM NODE
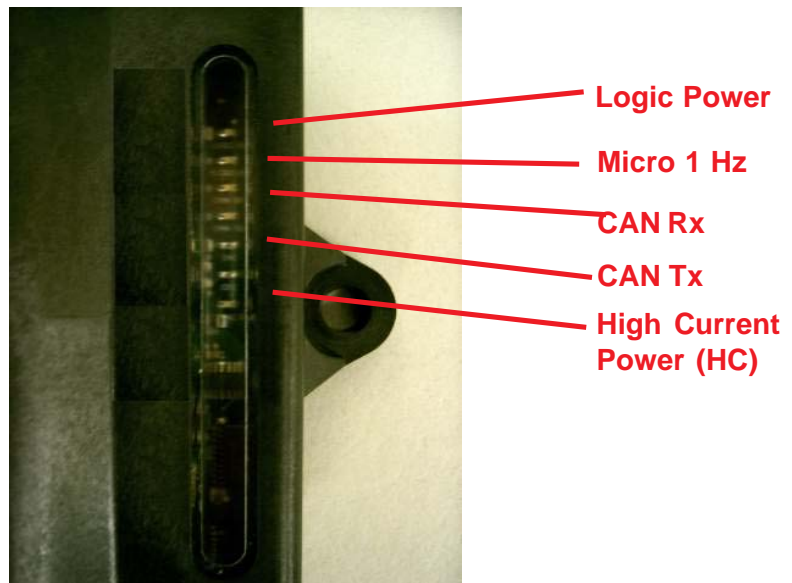
ACCUBOOM
CABLE
115-1001-013

Notes:

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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 Powr:** 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 teh node.

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RAVEN INDUSTRIES

LIMITED WARRANTY

WHAT IS COVERED?

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

HOW LONG IS THE COVERAGE PERIOD?

This warranty coverage runs for 12 months from the purchase date of your Raven Flow Control Product. This warranty coverage applies only to the original owner and is not transferrable.

HOW CAN YOU GET SERVICE?

Bring the defective part, and proof of date of purchase, to your local dealer. If your dealer agrees with the warranty claim, he will send the part, and proof of purchase to his distributor or to Raven for final approval.

WHAT WILL RAVEN INDUSTRIES DO?

When our inspection proves the warranty claim, we will, at our option, repair or replace the defective part and pay for return freight.

WHAT DOES THIS WARRANTY NOT COVER?

Raven Industries will not assume any expense or liability for repairs made outside our plant without written consent. We are not responsible for damage to any associated equipment or product 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 is authorized to assume for us any liability. Damages caused by normal wear and tear, mis-use, abuse, neglect, accident, or improper installation and maintenance are not covered by this warranty.

R A V E N

PRECISION
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