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# VALTRA BH STEER READY RAVEN RS1™ ISO GUIDANCE AND STEERING INSTALLATION GUIDE

This quick guide provides installation instructions of RS1 on a steer ready Valtra BH tractor. For calibration and operation information, refer to the Operation Manual (P/N 016-4010-001) included with the kit.

The RS1 is an all-in-one unit that provides GPS, guidance, and optional cellular connectivity.

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## INSTALLATION DIAGRAM

The image below provides a basic overview of the installation of the RS1. Refer to the next sections for detailed installation information.



FIGURE 1. CR7 Valtra BH Installation Diagram

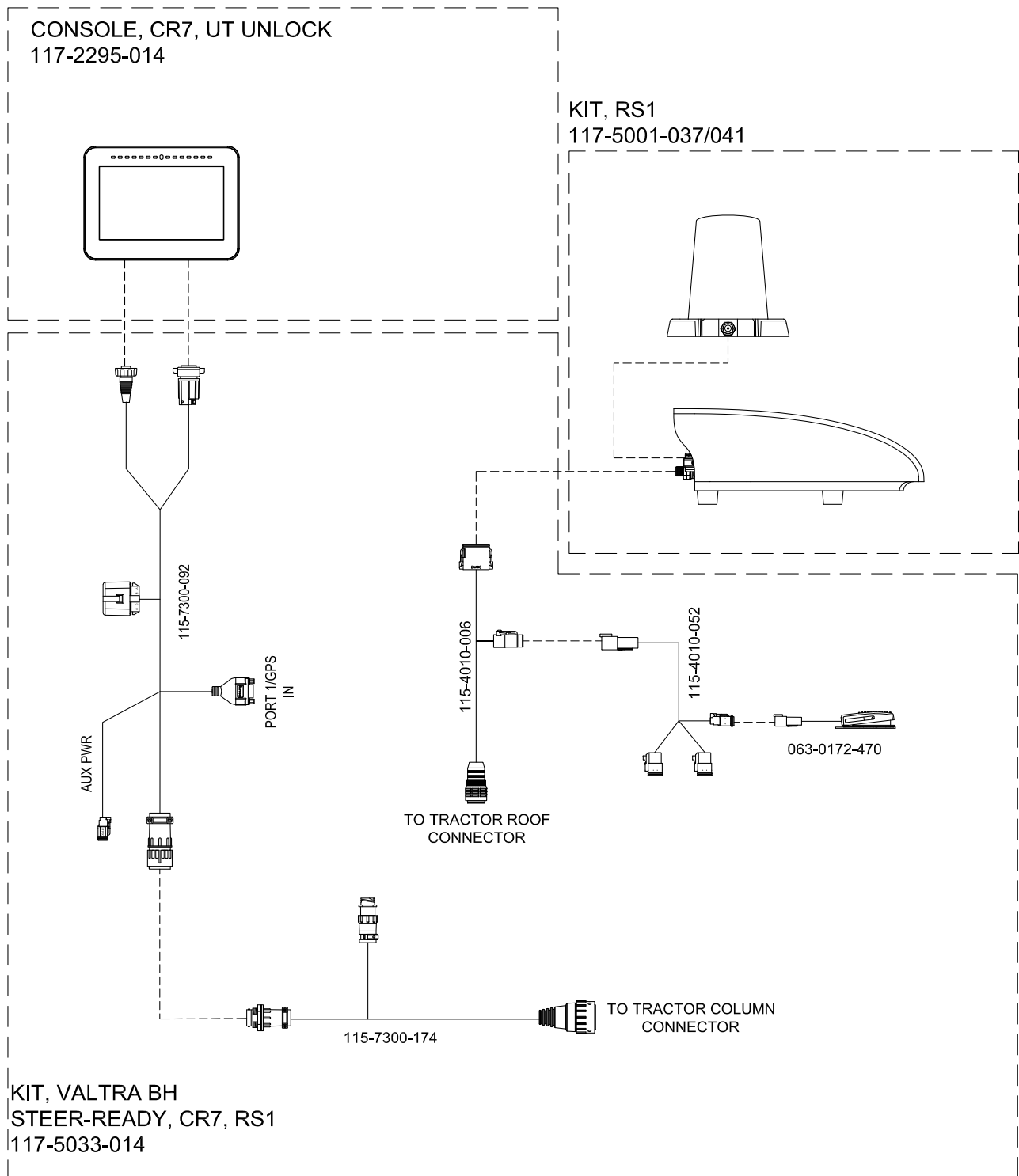
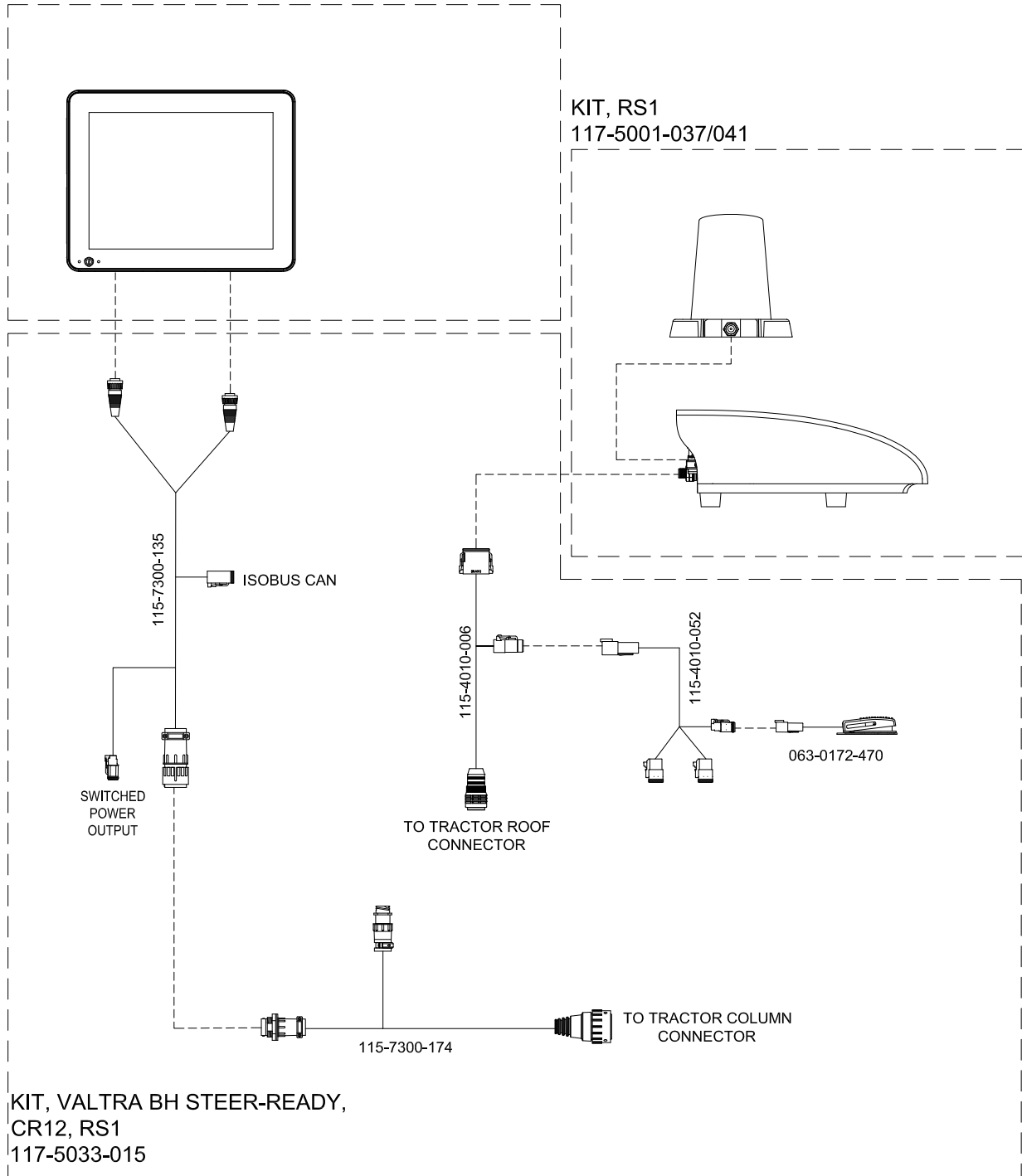


FIGURE 2. Viper 4 / CR12 Valtra BH Installation Diagram

CONSOLE, CR12, UT UNLOCK  
 117-2300-001/005  
 CONSOLE, V4+, UT UNLOCK  
 117-5010-068/069



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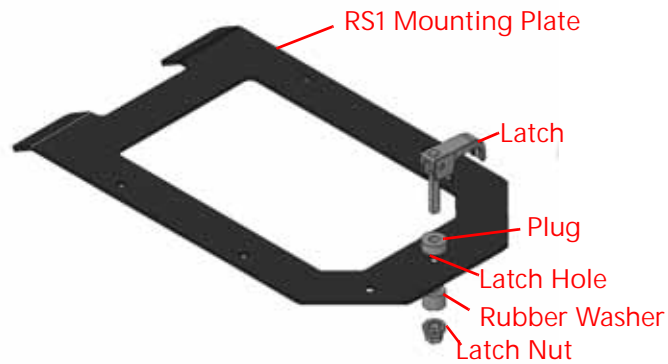
## RS1 UNIT INSTALLATION

For RS1 to operate, the RS1 unit must be mounted on the cab roof. To install the unit:

1. Assemble the latch, plug, rubber washer, and latch nut through the latch hole on the RS1 mounting plate.

FIGURE 3. Latch Assembly

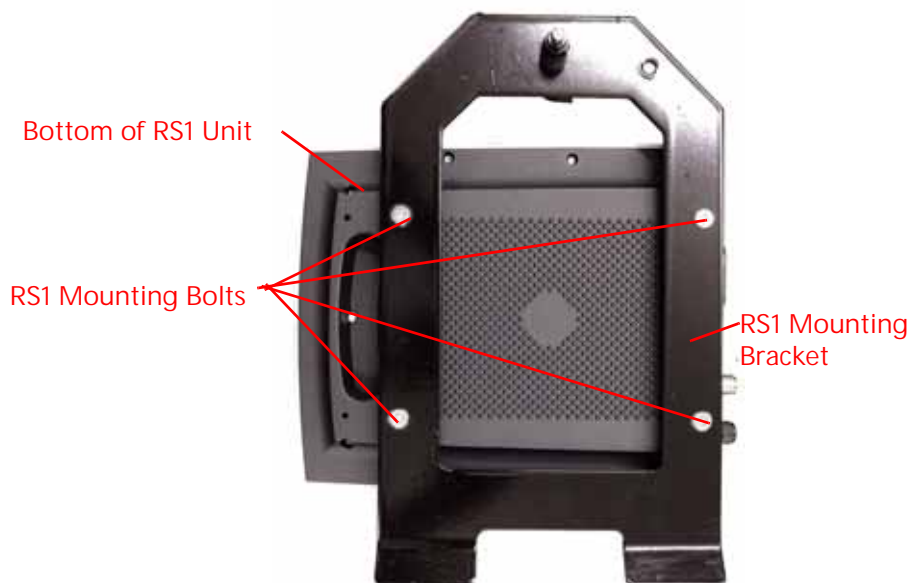
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2. Using the four 1/4" - 20 x 1/2" flat head machine screws provided, install the RS1 mounting bracket to the bottom of the RS1 unit.

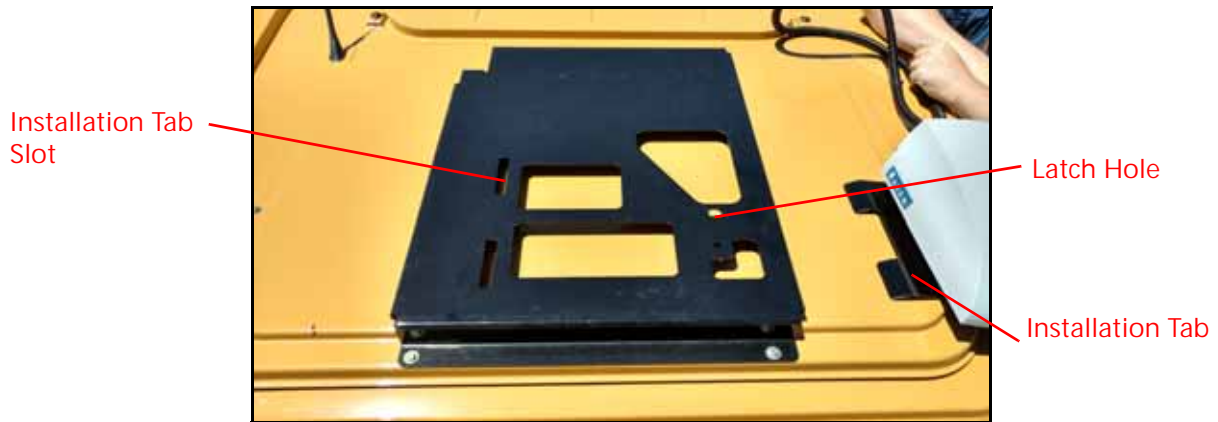
FIGURE 4. RS1 Mounted to Bracket

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3. With the front of the RS1 (sloped edge) towards the front of the machine, place the installation tab of the RS1 mounting bracket in the installation tab slot.

FIGURE 5. Installation Tab



4. Connect the black 12-pin Deutsch connector on the RS1 cable (P/N 115-4010-006) to the back of the RS1 unit.

FIGURE 6. Cabling Connection on RS1 Unit



5. Place the RS1 bracket on the existing mounting plate with the latch plug inside the latch hole.
6. Press down on the latch handle until it locks to secure the RS1 assembly in place.

FIGURE 7. Installed RS1 Unit



**NOTE:** The latch may need to be adjusted to provide proper compression. To do this, tighten the nut on the bottom of the latch.



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7. If applicable, connect the cellular antenna to the back of the RS1 unit and secure the antenna to the roof bracket using the magnet attached to the antenna.
  8. Connect the 12-pin Deutsch connector to the mating connector on the back of the RS1 unit.
  9. Feed other end of the RS1 cable towards the mating connector on the machine's roof.
  10. Remove the cap off the mating roof connector.
  11. Connect the 12-pin Amphenol connector to the mating roof connector.

FIGURE 8. Completed Cable Connection

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12. Connect the RS1 Breakout Cable (P/N 115-4010-052) to the 6-pin DTM connector on the RS1 Roof Adapter Cable.
13. Route the other end of the cable down the right-rear corner post and into the cab through the grommet at the bottom of the rear window.
14. Connect the engage foot switch (P/N 063-0172-470) to the 2-pin DT connector.

## FIELD COMPUTER INSTALLATION

The field computer (CR7, CR12, or Viper 4) must be installed for correct system operation.

1. Locate the connector on the column inside of the cab of the tractor, and connect the 115-7300-174 cable into the connector.

FIGURE 9. Connector Located on Column of the Tractor

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2. Depending on which field computer will be installed, connect the respective cable on the other end of the 115-7300-174 cable as shown in the installation diagrams in Figure 1 on page 2 or Figure 2 on page 3.
  3. Use the mounting materials supplied with the field computer to find the best position for assembly.

## OPERATION

Refer to the *RS1 Calibration and Operation Manual* (P/N 016-4010-001) for instructions on configuring, calibrating, and operating RS1. Please note the location of the master switch on the machine as it is needed for operation.

FIGURE 10. Master Switch and Resume Foot Switch

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