

## Field Service Bulletin: S3u Windows Console V5 P/N 8400.0331.01 Installation

**Doc number: 1120.01XX.01**

**Date: 1/25/11**

### 1 Ground Connection Cleanup

The purpose of this section is to improve the grounding between the front foot and the main bike frame. The computer (PC) is attached to the front foot and has the bike's external earth ground connection through the power cord.

- 1.1 Power down the bike.
- 1.2 Unplug the power cord from the bike
- 1.3 Locate the four bolts that secure the front foot to the bike frame



**2 bolts each side  
of front foot**

- 1.4 Slightly tilt the bike on one side and position something such as a rubber mallet to raise the front foot just enough to get a wrench underneath.



- 1.5 Using a 13mm wrench remove one nut and flat washer. Temporarily remove the bolt and lightly sand the bottom surface of the front foot where the nut was.



**Sand bottom surface  
around bolt hole**

1.6 Reinstall the bolt and install new star washer and re-use nut. Secure tightly.



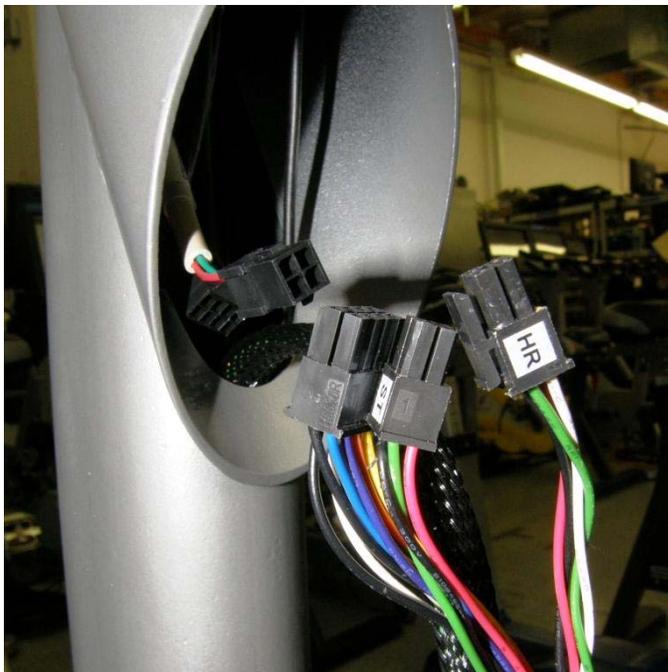
**Reinstall using new star washer**

1.7 Repeat for other three attachment bolts one at a time.

## 2 Disconnect Harness

2.1 Remove the water bottle and steering column plastics.

2.2 Disconnect the Steering, and Shifter cables from the main harness. Disconnect the Heart Rate (HR) cable (from either the main harness or console feed, depending on version).



### 3 Console Removal

3.1 Remove the four inner screws of the console from underneath the console.



2 screws each  
side of console

3.2 Remove the Main Harness connector and the ground connection. If there is also a heart rate cable exiting the console disconnect it also. Set aside the console.



## 4 Harness Preparation

- 4.1 Pull the main harness “D-Sub” connector down from the console mounting plate. Tape the three connectors to the main harness, as they will no longer be used.



## 5 Chassis Ground Preparation

- 5.1 First locate the console mounting plate hole to be used as a chassis ground connection. It is the lower left hole when viewed from underneath the console plate.



- 5.2 Use sandpaper to clear away finish on the underside of the lower left hole of console plate, which is located nearest to audio jack. A circular sanding motion around the hole tends to work best. Once completed, there should be a distinct metal ring visible around the hole.



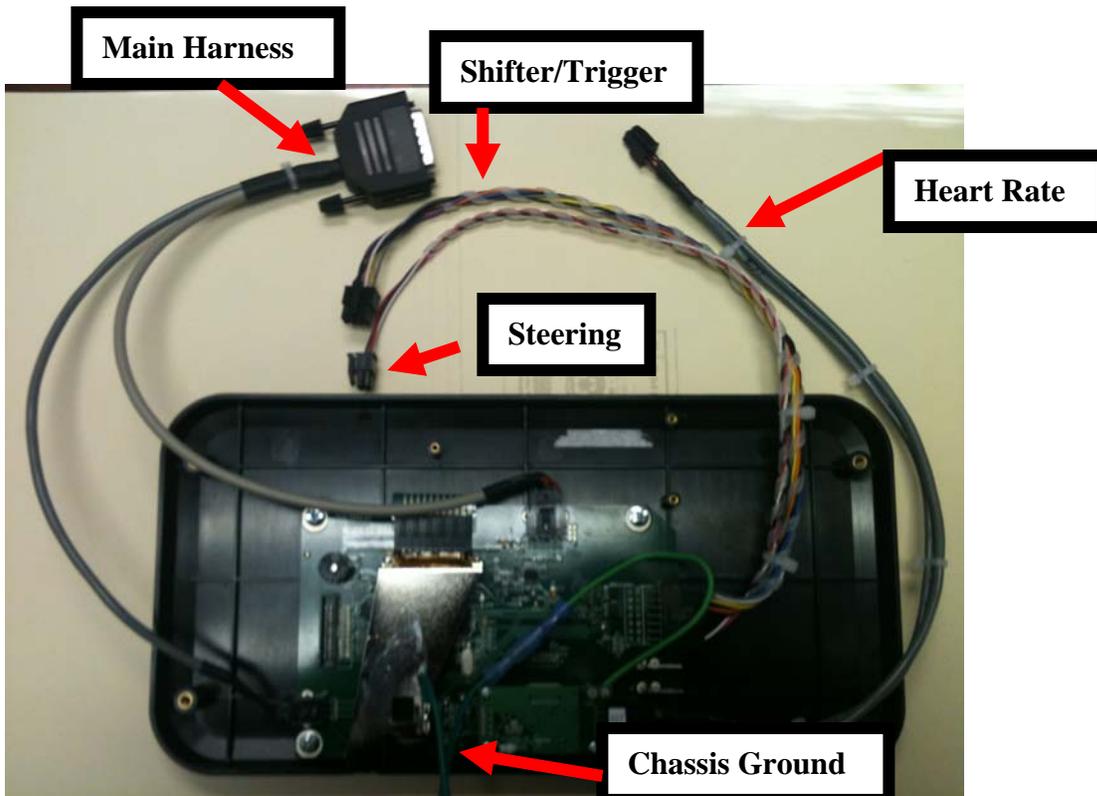
You are now ready to begin installing the new Beta console

## 6 New V5 Console Installation

- 6.1 Install the new console's bottom shell onto the plate with 3 standard screws. The fourth hole, located closest to the audio jack, will be a ground connection and use different hardware.



- 6.2 Pre-attach all the cables to the new console.

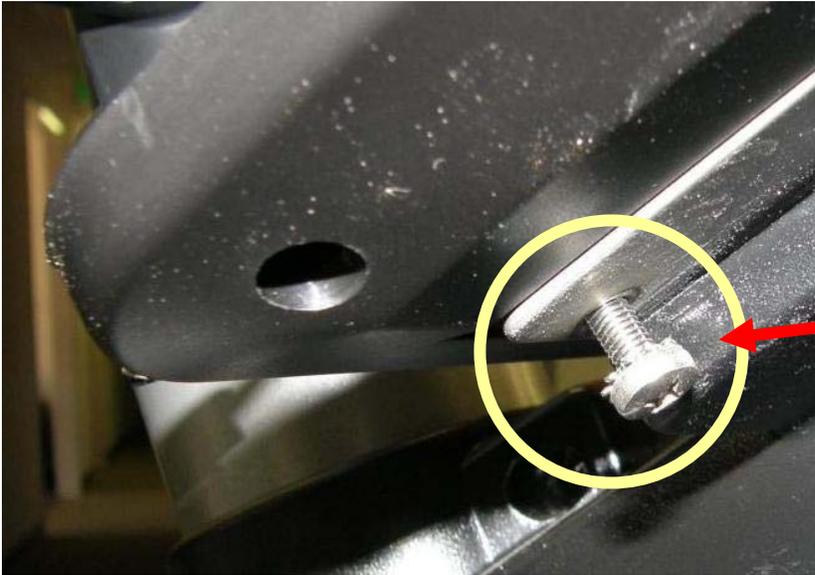


6.3 Feed the cables down through the steering column.



6.4 Connect the HR, shifter/trigger, steering cables from the console to the matching handlebar. Finally, connect the large 26 pin D-Sub connectors together. Ensure that all cabling is positioned properly for the plastics to go back on.

- 6.5 Install the new ground screw from the bottom of the plate up through the console. Ensure the star washer is sandwiched between the screw head and plate. The supplied screw may be either Phillips head or Allen head.



- 6.6 Install flat washer followed by 2<sup>nd</sup> star washer and nut on top of console shell and ensure tightly secured.

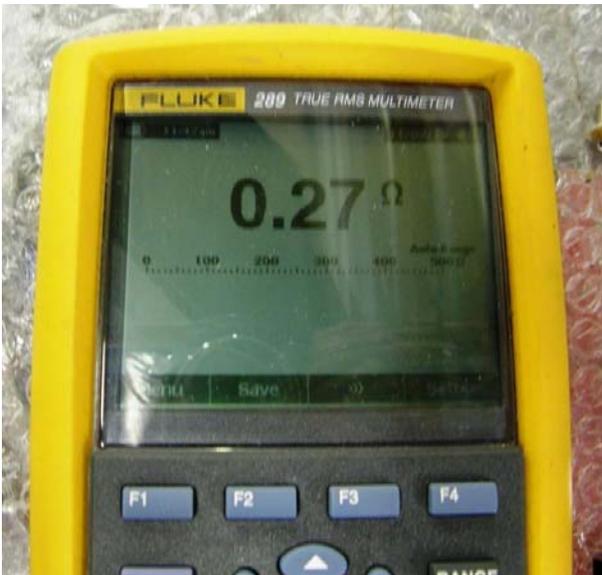
**Stack Up:****(From bottom up)**

- Screw
- Star washer
- Plate on bike
- Bottom console plastic
- Flat Washer
- Star washer
- Nut

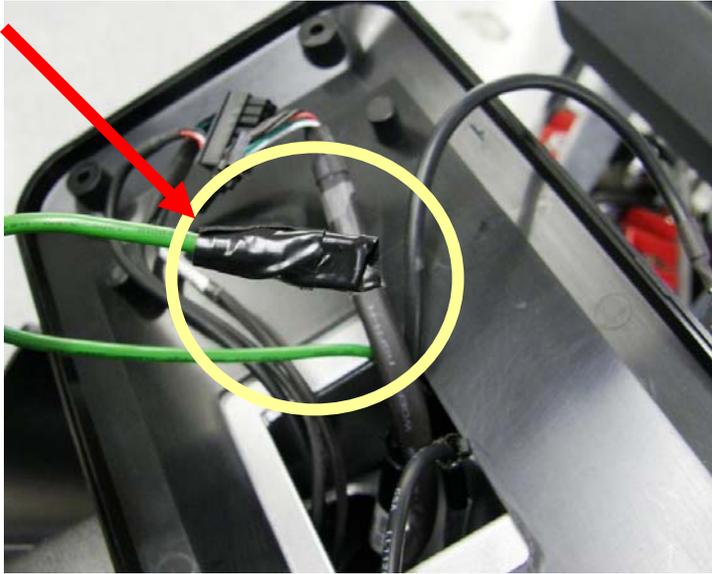
- 6.7 Perform 2 DMM measurements –

1. Measure resistance between the nut and a frame hinge screw. Resistance should be less than 1 Ohm. If the resistance is greater than 1 Ohm, remove the ground screw/nut and perform additional sanding on the plate until measurement is in spec.

2. Measure resistance between the nut and the green ground wire. Resistance should be less than 1 Ohm. *If this measurement is out of spec contact IFH technical support before continuing with installation.*

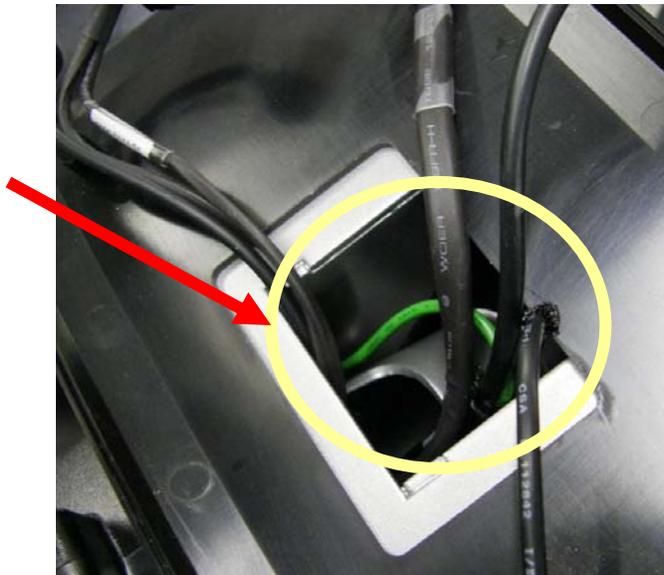


6.8 Apply electrical tape to the green ground wire.

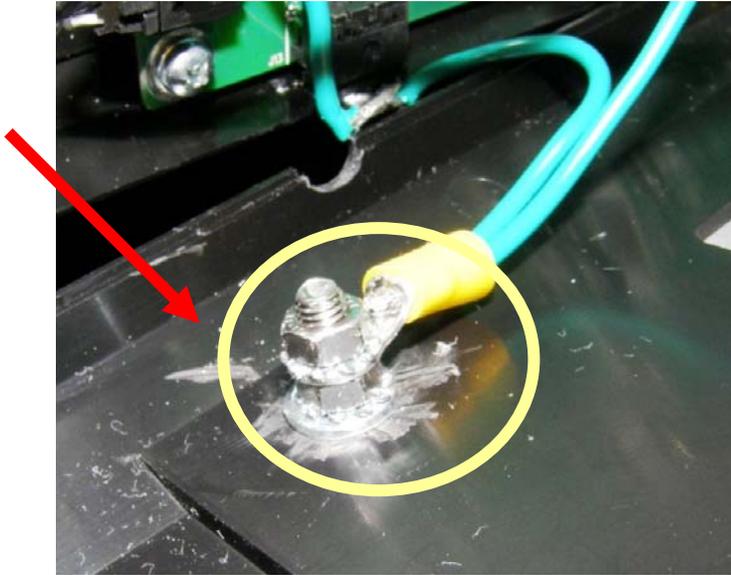


6.9

6.10 Tuck the green wire back into the frame.



- 6.11 Position the upper half of new console assembly into the same position as in Section 2.2. Install the console's green ground wire to the new ground screw (over the existing nut) and secure with lock washer and nut.

**Stack Up:****(From bottom up)**

- Screw
- Star washer
- Plate
- Bottom console plastic
- Flat washer
- Star washer
- Nut
- Ground wire lug
- Star washer
- Nut

**\*\*Note: When connecting the ground please use extreme caution with the other wires/connections so that they are not pulled too tight!\*\***

- 6.12 Close the console up and install the 4 screws from the underside.
- 6.13 Connect the power cord and power on the unit.
- 6.14 Go into the Manual Mode / configuration menu and run the keypad, heart rate, and audio volume tests to verify proper operation.
- 6.15 Install steering column plastics and water bottle holder plastic.