

Field Service Bulletin: S3U/Y Console V5 P/N 8400.0322.01 Installation

Doc number: 1120.0194.01

Date: 01/25/11

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**

Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

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



Reinstall using new star washer

- 1.6 Repeat for other three attachment bolts one at a time.

2 Console Removal

2.1 Remove the four outer screws of the console from underneath the console.



2 screws each
side of console

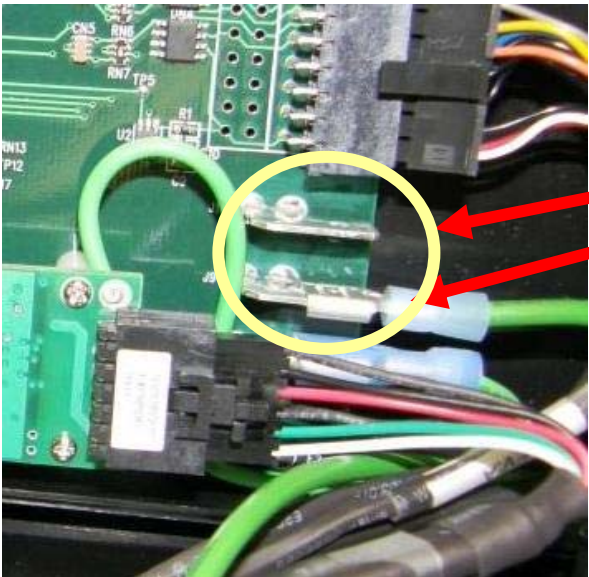
Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

2.2 Open up console as shown by rotating upper console half up and towards monitor.



2.3 Carefully touch the chassis ground lugs on the console to eliminate any static discharge potential.

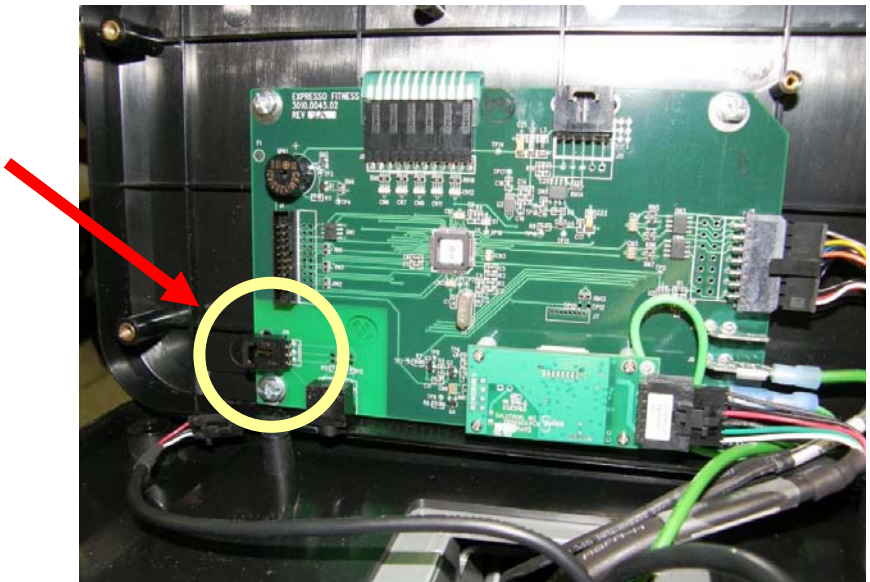


Touch either lug

2.4 Remove the top cable (USB interface) first.



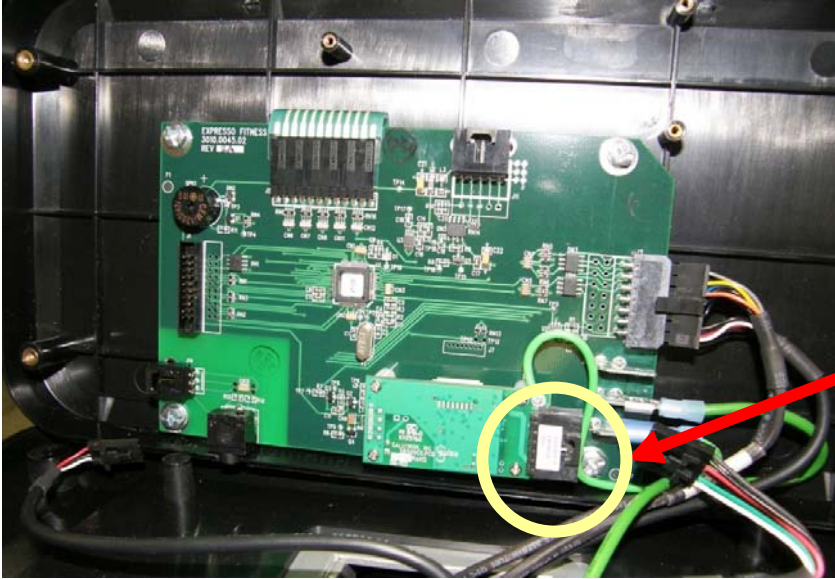
2.5 Remove the left cable (Audio) next.



Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

2.6 Remove the lower right cable (Heart Rate) next.



2.7 Remove the large connector on the right next (switch/trigger I/O).



Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

- 2.8 Remove the green ground wire that comes through the frame from the console. Do not remove the ground wire from the heart rate module.



- 2.9 There should be no wires connected to the console at this point. Remove the upper console assembly and set aside.

Document: 1120.0194.01

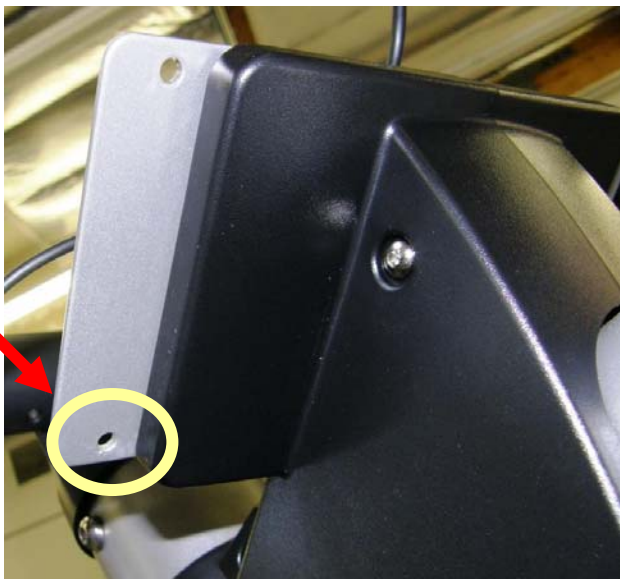
Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

- 2.10 Remove lower console shell 4 screws from underneath side of shell and set aside lower shell.



3 Chassis Ground Preparation

- 3.1 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.



Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

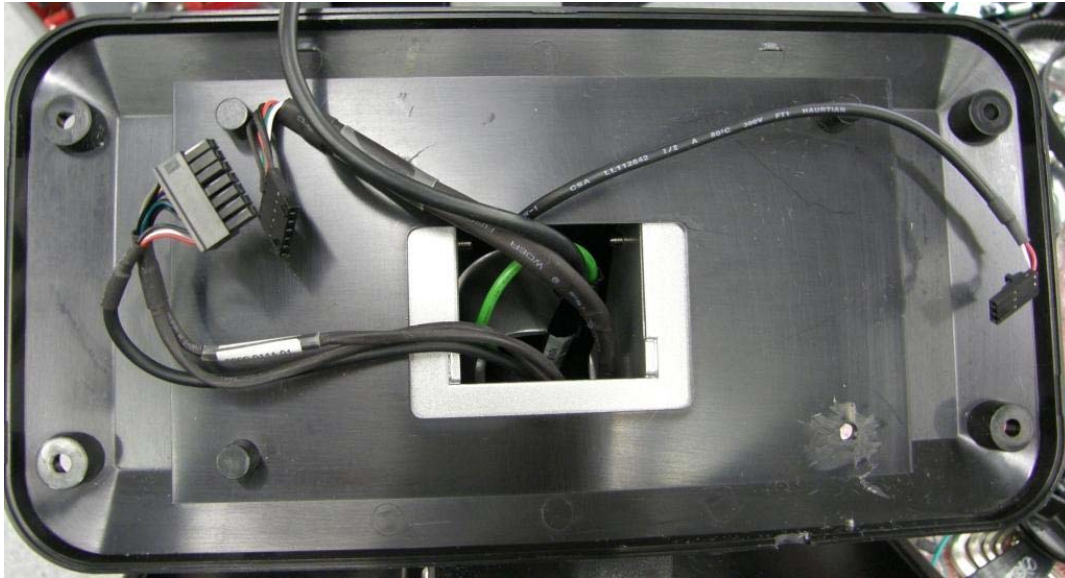
- 3.2 Use sandpaper to clear away finish on the underside of the lower left hole of console plate, which is located nearest to audio jack. A circular sanding motion around the hole tends to work best. Once completed, there should be a distinct metal ring visible around the hole.



You are now ready to begin installing the new Beta console

4 New V5 Console Installation

- 4.1 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.



- 4.2 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.



Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

- 4.3 Install flat washer followed by 2nd 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

- 4.4 Perform 2 DMM measurements –

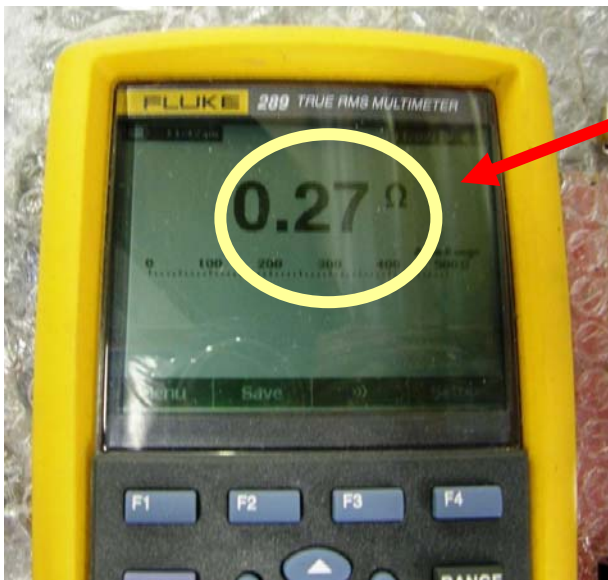
1. Measure resistance between the nut and a frame hinge screw. Resistance should be less than 1 Ohm. If the resistance is greater than 1 Ohm, remove the ground screw/nut and perform additional sanding on the plate until measurement is in spec.



Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

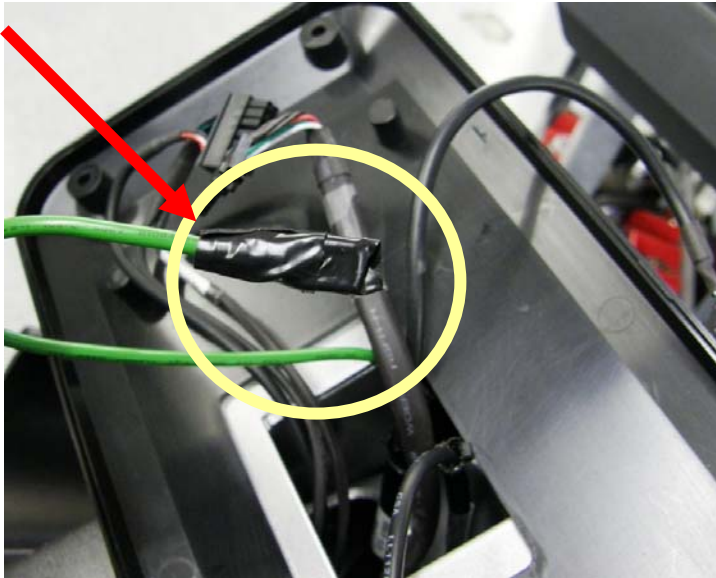
2. Measure resistance between the nut and the green ground wire. Resistance should be less than 1 Ohm. ***If this measurement is out of spec contact IFH technical support at 888-528-8589 x2 before continuing with installation.***



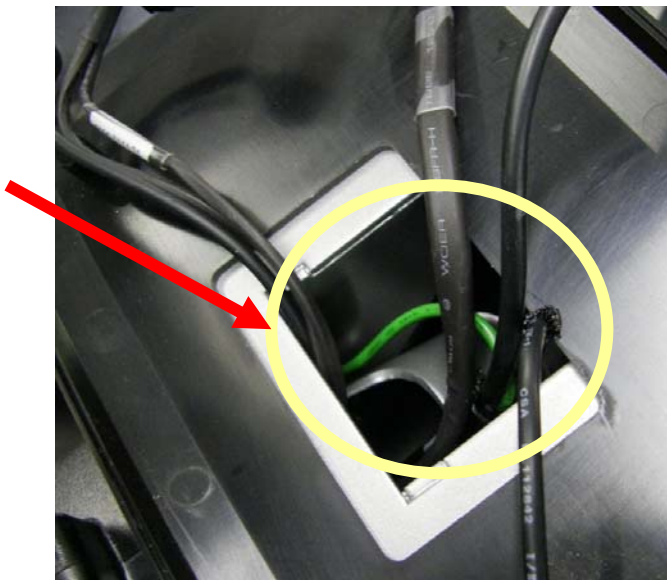
Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

- 4.5 Apply electrical tape to the green ground wire making sure that the connector is completely tape and no metal is exposed.



- 4.6 Tuck the green wire back into the frame.



Document: 1120.0194.01

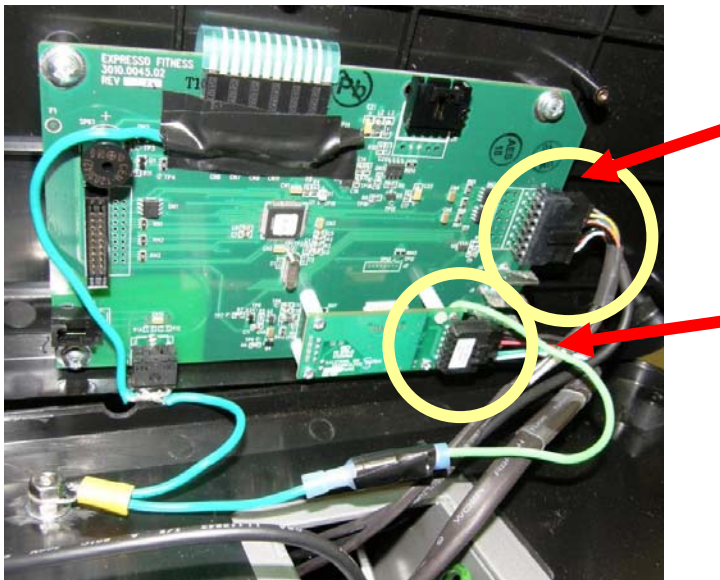
Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

4.7 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

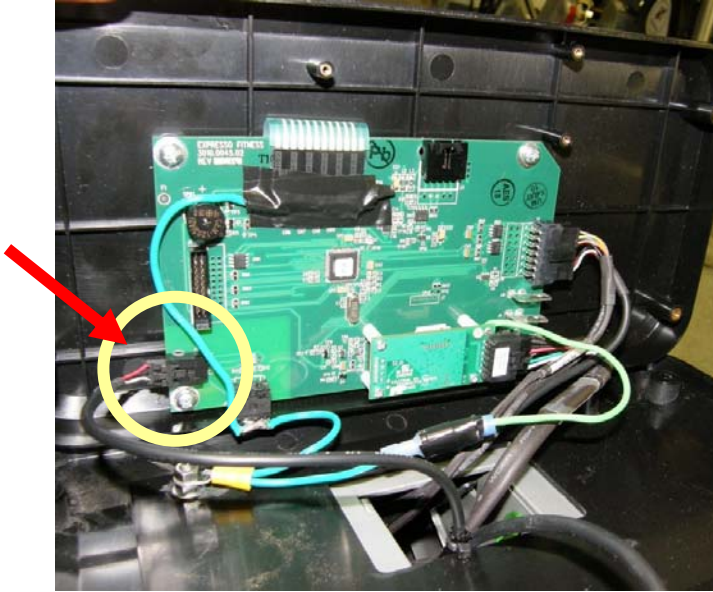
4.8 Install the large I/O cable and HR cable on the right side of the console.



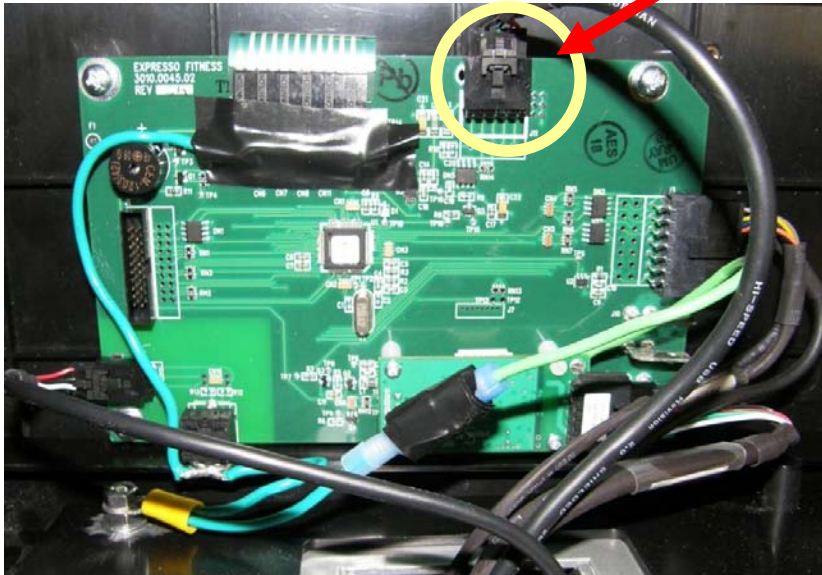
Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

4.9 Install the Audio cable on the left side of the console



4.10 Install the USB cable on the top of the console. All cables should now be installed.



Document: 1120.0194.01

Field Service Bulletin – Installation of Novo ESD Console V5, P/N: 8400.0322.01

- 4.11 Close the console up and install the 4 screws from the underside.
- 4.12 Connect the power cord and power on the unit.
- 4.13 Go into the Manual Mode / configuration menu and run the keypad, heart rate, and audio volume tests to verify proper operation.

If you have any questions, please contact IFH Customer Support at 1-888-528-8589 x2 and or email to support@ifholdings.com .