



Sending the NORM Servo Enclosure and HUMAC Interface to CSMi

1. Introduction

- 1.1. Following is the procedure to remove the **Servo Amp Assembly** and **HUMAC Interface** from the NORM Electronics Frame. The Electronics Frame is the end of the NORM that includes the computer monitor tray, computer, and dynamometer.

2. Required Tools

- Phillips Head Screwdriver.
- Small Flat-Blade Screwdriver (to disconnect cable connectors).
- 3/8" Wrench or Socket with Extension.

3. Procedure

- 3.1. Turn off the NORM power switch located on the side of the Electronics Frame.
- 3.2. Two cables exit the front of the NORM and lead to the Isolation Transformer, which may or may not have a power switch (follow 3.2.1 below if it DOES have a power switch and 3.2.2 if it DOES NOT have a power switch).
 - 3.2.1. Isolation Transformer has a power switch.
 - 3.2.1.1. If the Isolation Transformer has a power switch push it to the full down position to turn off power from the Isolation Transformer.
 - 3.2.1.2. Unplug the Isolation Transformer from the wall.
 - 3.2.1.3. Use Phillips Head Screwdriver to remove the Cover plate covering the plugs leading from the NORM (NOTE: not all Isolation Transformers include a cover plate).
 - 3.2.1.4. Unplug the two NORM plugs from the Isolation Transformer.
 - 3.2.1.5. Reinstall the cover plate so parts are not lost.
 - 3.2.2. Isolation Transformer does not have a power switch.
 - 3.2.2.1. If the Isolation Transformer does not have a power switch unplug it from the wall.
 - 3.2.2.2. With Phillips Head Screwdriver remove the Cover plate covering the plugs leading from the NORM (NOTE: not all Isolation Transformers include a cover plate).
 - 3.2.2.3. Unplug the two NORM plugs from the Isolation Transformer.
 - 3.2.2.4. Reinstall the cover plate so parts are not lost.
- 3.3. The Dynamometer Cable (black plastic) exits the top of the Electronics Frame and leads to the Dynamometer.
 - 3.3.1. Remove the Phillips Head screw on the strain relief that secures the cable to the Dynamometer.

- 3.3.2. Set the dynamometer to 90 degrees (Vertical) position.
- 3.3.3. Remove the 2 plastic or 3 metal connectors attached to the Dynamometer.

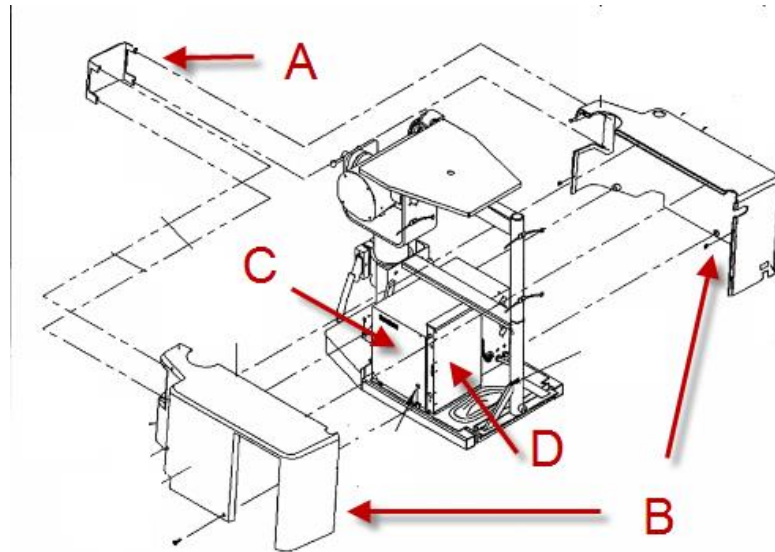


Figure 1 Electronics Frame

- 3.3.4. Remove the Dynamometer Pedestal cover (**Part A**).
 - 3.3.4.1. Lift the dynamometer locking handles so they're resting about half-way in their opening.
 - 3.3.4.2. Using your fingers, gently pull out on the tabs that hold the cover in place and ease the cover back away from the Electronics Frame. Once one side has been freed, the other side should just pop out.
- 3.3.5. Remove the 10 Phillips Head screws that hold the Electronic Frame Cowling in place. Remove the Cowling (**Part B**). Feed the Dynamometer Cable through the Cowling so it is free. Start with smallest connector.
- 3.3.6. Disconnect all of the Cables that connect the Servo Amp Assembly (**Part C**) to the HUMAC Interface (**Part D**).
- 3.3.7. Remove the 4 bolts from the base of the Servo Amp Assembly (**Part C**) with a 3/8" wrench or socket. Thread the bolts back into their respective holes (or secure them in some manner) so they don't get lost.
- 3.3.8. Remove the bolt from the base of the HUMAC Interface (**Part D**) with a 3/8" wrench or socket. Thread the bolts back into their respective holes (or secure them in some manner) so they don't get lost.
- 3.4. Remove the Servo Amp Assembly and HUMAC Interface from the Electronics Frame to return to CSMi.
- 4. **Packaging**
 - 4.1. Be sure to package with adequate cushioning (bubble wrap or similar) in a strong cardboard box so it arrives at CSMi in good physical condition.
 - 4.2. Items to include in the package:

- 4.2.1. Servo Amp Assembly (Part C).
- 4.2.2. HUMAC Interface (Part D).
- 4.2.3. Cables that connected the Servo Amp Assembly to the HUMAC Interface.
- 4.2.4. OPTIONAL: Your laptop or CPU for software upgrades / testing (if requested in the RMA). Please include a list of ALL passwords required to access the computer.
- 4.3. Include copy of RMA provided by CSMi.
- 4.4. Call 781-297-2034 or email service@csmisolutions.com to notify CSMi Service the parts are in transit to CSMi.
- 4.5. Ship Prepaid - your preferred time in transit.

5. Shipping Address

Computer Sports Medicine, Inc.

101 Tosca Drive

Stoughton, MA 02072

Attn: Service Department

RMA#: Include the RMA Number you received from CSMi. All returns must have an RMA number