

INSTRUCTIONS

INSTALLATION OF USB EXTENSION CABLE INTO F-FRAME VLT® DRIVES

This instruction sheet is for the field installation of the USB extension cable into the door of F-Frame VLT frequency converters. **Note: This kit is applicable to drives built during or after Week 40 of 2008.** Frequency converters built prior to Week 40, 2008 do not have the provisions for this kit.

Kit Part Number

176F1784

Kit Contents

- USB extension cord
- Tie wraps
- Instruction Sheet 177R0091

WARNING

The frequency converter contains dangerous voltage. Disconnect power and follow lock-out/tag-out procedures before working on this equipment.

The door on the rectifier section of F-Frame VLTs are fitted with a feed-through hole to accommodate a USB extension cord so that the controls can be accessed from a laptop computer without requiring access to the inside of the VLT.

With the rectifier door open, the hole is located near the upper right corner of the door. See Figures 1 and 2.

The feed-through hole is covered by the decorative label on the outside and with a round sticker on the outside.



Figure 1. Location of USB feed-through hole.

1. Remove the label shown in Figure 2 to expose the USB feed-through hole from the inside of the door.
2. Carefully cut through the exterior label to create a hole for the USB cable. It is recommended that the hole be located by creating a hole in the label from the inside of the door, then cut through the decorative label from the outside to prevent the decorative label from separating from the door.

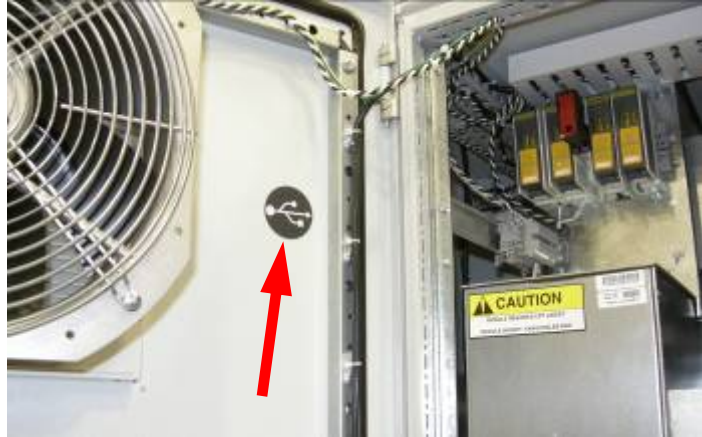


Figure 2. Location of USB feed-through hole.

3. Remove the retaining nut from the USB cable. See Figure 3.



Figure 3. USB connector retaining nut.

4. Insert the USB cable into the door. The gasket should be located on the outside of the door. See Figure 4.



Figure 4. Inserting USB cable into feed-through hole.

5. Secure the USB connector onto the door by using the USB cable retaining nut from inside the door. Tighten securely. See Figures 5 and 6.



Figure 5. Securing USB connector with retaining nut.



Figure 6. USB connector installed on door.

6. Remove the cable-channel cover from the front of the cable channel to enable insertion of the USB cable. See Figure 7.

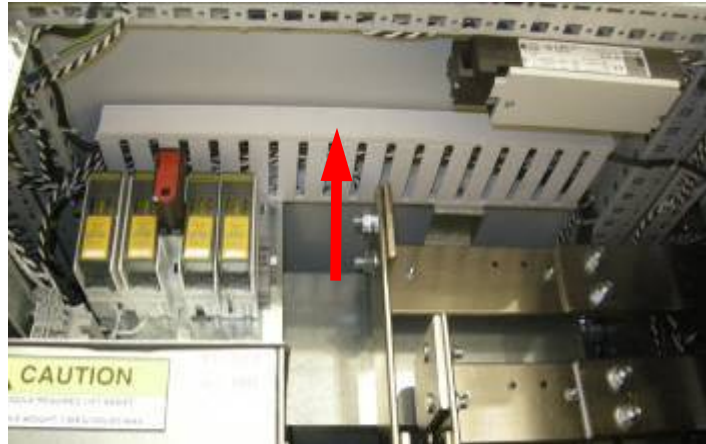


Figure 7. Front cover of cable channel.

7. Route the USB cable along the same route as the LCP cable. This is shown by the dotted red line in Figure 8. Utilize cable ties to secure the USB cable to the LCP cable until the cable is inside the cable channel.

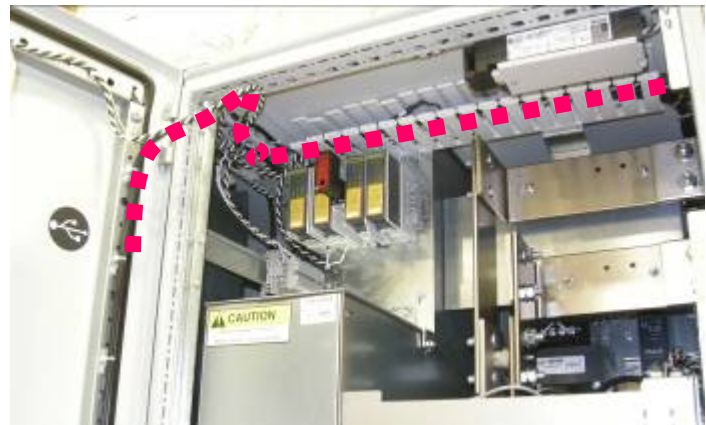


Figure 8. Routing of USB cable in rectifier cabinet.

8. Route the USB cable from the cable channel to the control card as shown in Figure 9.

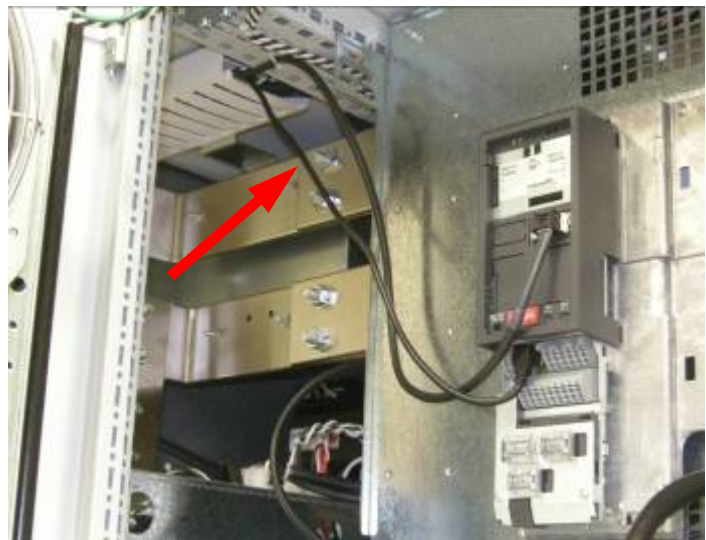


Figure 9. USB cable.

9. Connect the USB cable to the control card as shown in Figure 10.



Figure 10. USB cable connected to control card.

10. Reinstall the cable-channel cover as shown in Figure 11.

The installation of the USB cable is now complete.

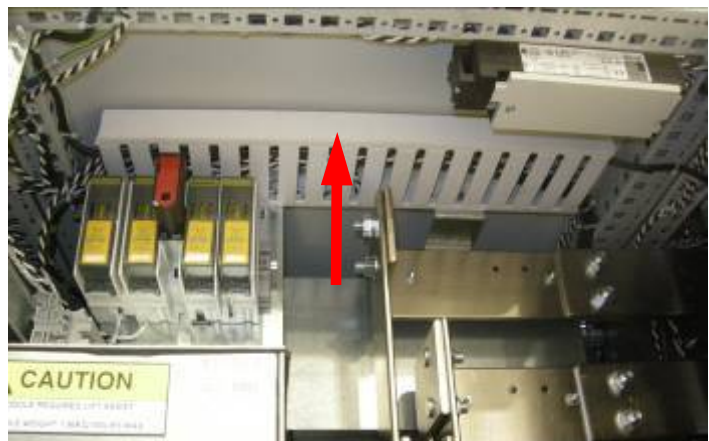


Figure 11. Front cover of cable channel.