

Adding/Removing Master Station Add-in Cards

To add or remove an add-in card the Master Station must be opened. The procedure below must be followed correctly to maintain IP67 integrity and to prevent damage to the Master Station and Add-in Cards.

Parts/Tools Required

- q #1 and #2 Philips bits
- q Torque wrench capable of measuring 2 - 6 lbf-in (20 - 70 N-cm) of torque

Procedure



IMPORTANT: Failure to observe torque specifications will result in a compromise of IP67 integrity.

Disassembly

1. Disconnect all radio and Ethernet cables from the Master Station. Mark them if necessary for reconnection later.
2. Remove the six main cover screws (**Figure 1**).
3. Remove the enclosure bottom.
4. Disconnect the power cable assy from the main PCB assy (**Figure 2**).
5. Remove the four screws which attach the main PCB assy to the standoffs (**Figure 3**).
6. Gently remove the main PCB assy from the cover assy and set aside.

Adding card(s)

1. Remove the eight screws from the blank plate and remove the plate (**Figure 4**).
2. Ensure there are gaskets on each of the four ports of the card and that no leftover gaskets are stuck to the backside of the front panel.
3. Insert the new card into the plastic cover and tighten the eight screws to **3 lb-in (34 N-cm)**.

Removing card(s)

1. Remove the eight screws from the card and remove the card (**Figure 4**).
2. Ensure there are gaskets on each of the four ports of the blank plate and that no leftover gaskets are stuck to the backside of the front panel.
3. Insert a blank plate into the plastic cover and tighten the eight screws to **3 lb-in (34 N-cm)**.

Reassembly

1. Gently attach the main PCB assy to the cover assy, ensuring the “fingers” on the add-in cards line up with and insert fully into the connectors on the main PCB assy (**Figure 3**).
2. Tighten the four screws which attach the main PCB assy to the standoffs to **2 lb-in (23 N-cm)**.
3. Reconnect the power cable assy to the main PCB assy (**Figure 2**).
4. Place entire assembly back into enclosure bottom (**Figure 1**).
5. Replace the six main cover screws and tighten to **6 lb-in (68 N-cm)**.

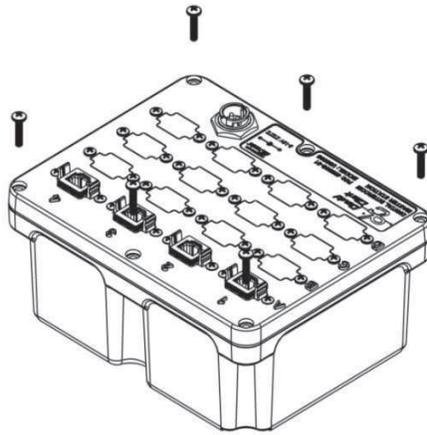


Figure 1 – Main Cover Assembly

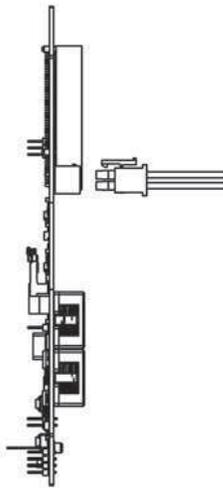


Figure 2 – Power Connection

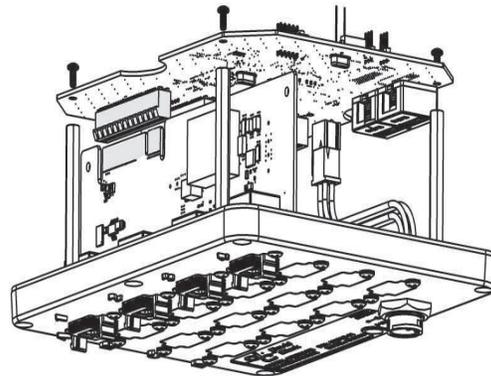


Figure 3 – Main PCB and Add-In Card Assemblies

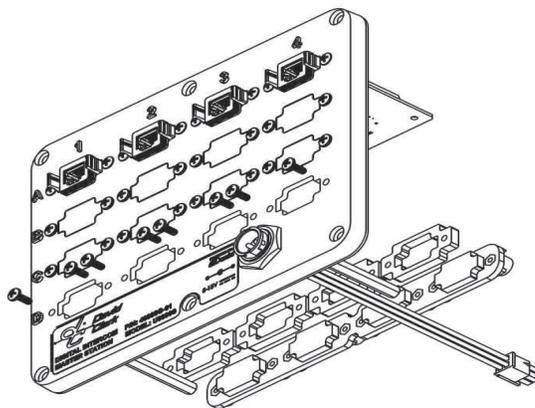


Figure 4 – Adding/Removing Add-In Cards