51-5405 Status Module Upgrade Kit Guide

1. Overview

The purpose of this document is to outline the procedure for converting the status module on an EVO cart from a 51-5159 or 51-5377 to 51-5405.

1.1. Materials

- 51-5460 Upgrade Kit:
  - 51-5405 Status Module
  - 10-0538 Self Tapping Screws (2)
  - 50-11959 Metal Rear Cover
  - 25-0386 Quick Start Guide
  - 21-2402 Ferrites (2)
  - PLT-1.5M Cable Ties (3)
  - 24-0337 Power Cable
  - 25-0387 Upgrade Guide
- Tools Needed:
  - Philips Screwdriver
  - Scissors or Small Wire Cutters

2. Procedure

1. Before beginning, unplug the cart from the wall if plugged in. Unlock and slide off the top work surface revealing the PC bay and rear of the status module as seen in Figure 1.

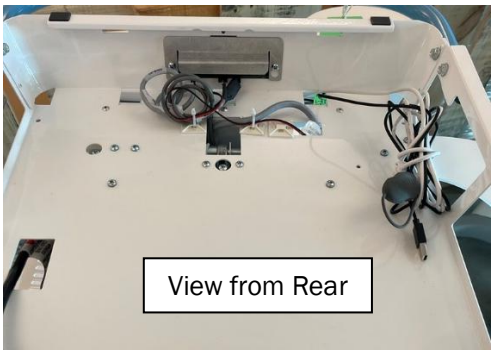

Figure 1: Open the Top Sink

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2. Loosen the two Philips screws that secure the current status module, the 51-5159 or 51-5405, to the cart then slide the metal rear cover up and off of the screws as shown in Figure 2.

Figure 2: Remove the Metal Rear Cover

3. Disconnect all cables from the status module as shown in Figure 3.

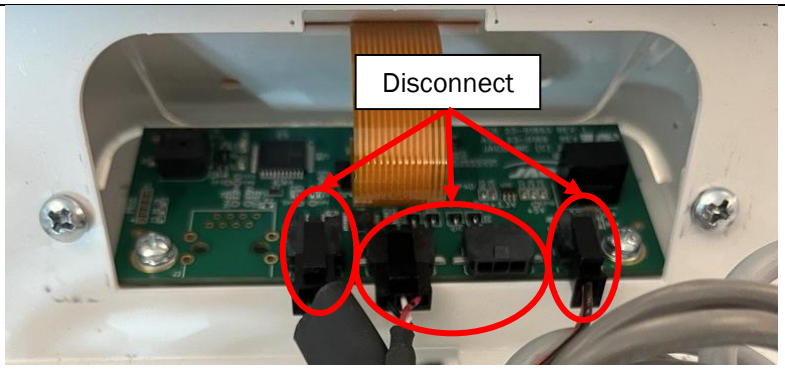

Figure 3: Disconnect all Cables

4. Remove the two Philips screws completely and remove the status module from the cart as indicated in Figure 4.

Figure 4: Remove the Screws

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5. Mount the new 51-5405 status module. Since an impact driver may strip the screw holes, use a handheld Phillips Screwdriver to install the new supplied self-tapping screws and secure the unit in place as shown in Figure 5. Do not fully tighten the screws at this point. Note: Attaching the cables, Step 6, can be done prior to screwing the status module to the cart if connection is easier in that manner.

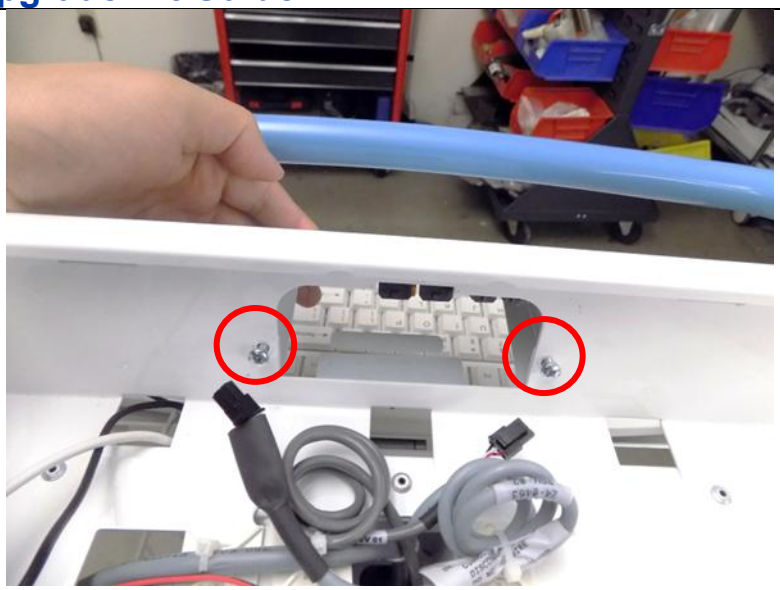

Figure 5: Mount the New 51-5405 Status Module

6. Connect the (1) eLocks, (2) battery data cable, and (3) power cable to the status module in that order as shown in Figure 6.

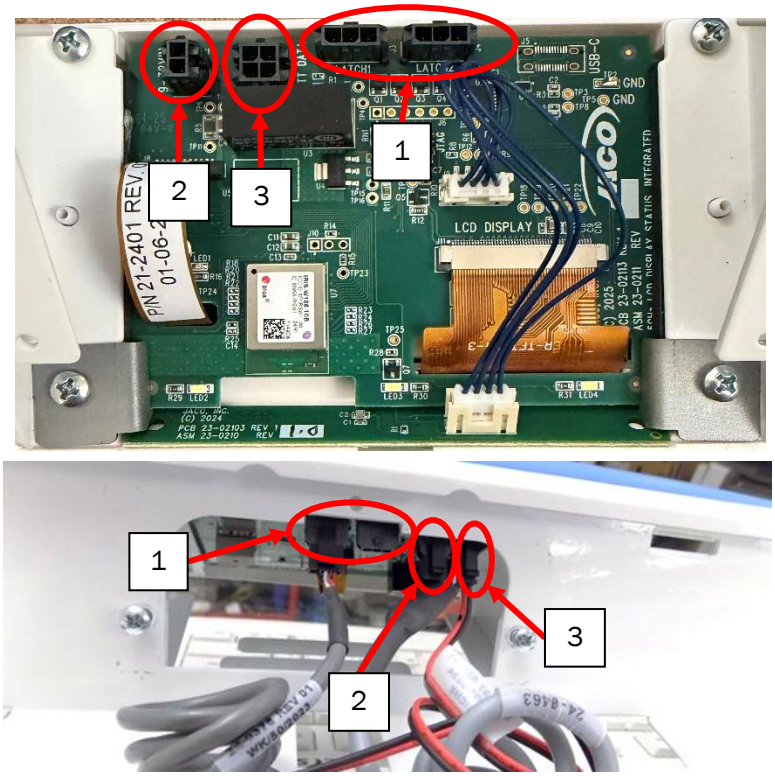

Figure 6: Connect the Cables

7. Install the new metal rear cover by sliding it into place over the screws. Tighten the Philips screws to secure the cover. See7.

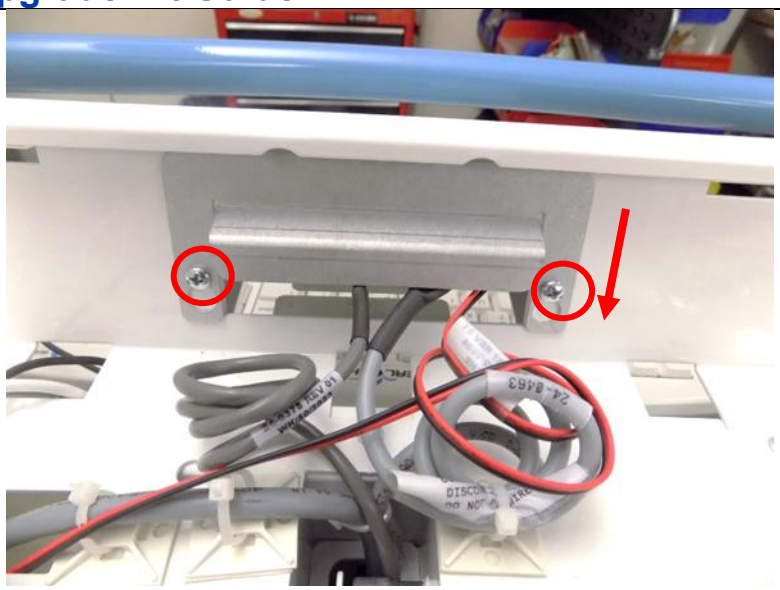

Figure 7: Install the Metal Rear Cover

8. Use cable ties to secure and tidy up the wires as shown in Figure 8.

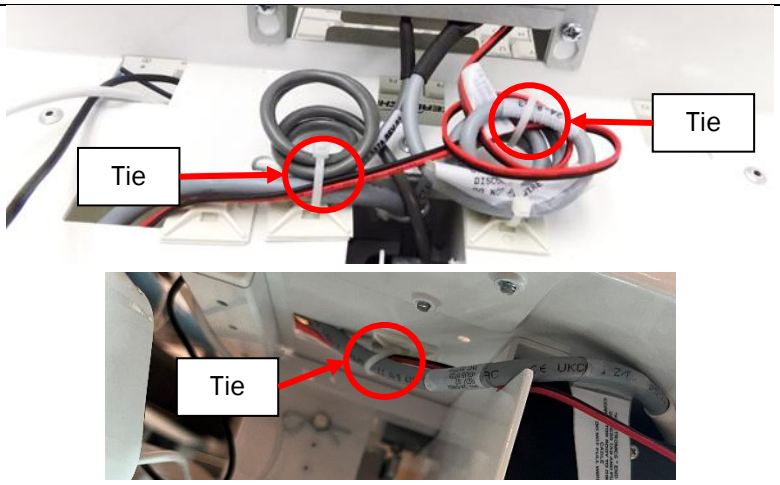

Figure 8: Use Cable Ties to Manage Cables

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9. Install one of the supplied Ferrites onto the power cable connected to the P1 inverter port as shown in Figure 9. Place the ferrite on the cord and then close it tightly. Close the inverter bay door and lock it in place by tightening the thumbscrew.

Figure 9: Attach the First Ferrite

10. Remove the 2 Phillips screws behind the cart base identified in Figure 10 and open the lower base shroud to reveal the battery system.

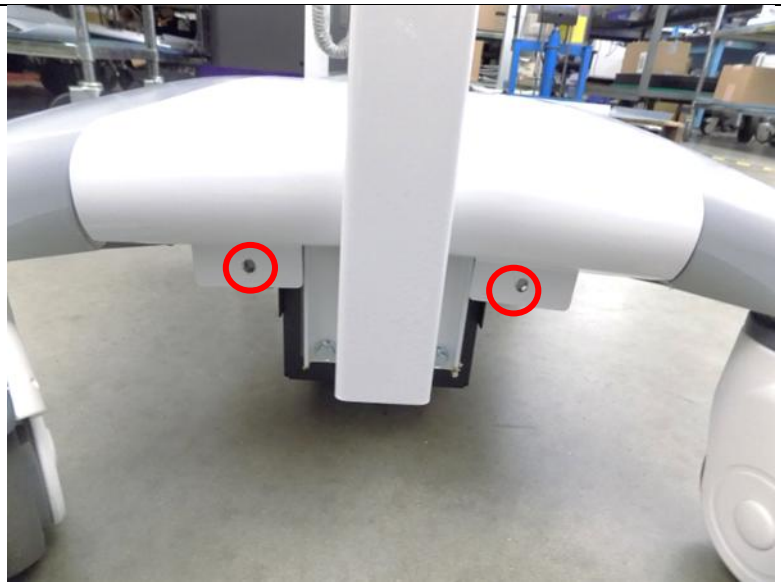

Figure 10: Removing the Base Shroud

11. Install the second supplied ferrite onto the thinner of the two battery cables, the battery data cable, as shown in Figure 11. Place the ferrite on the cord and then close it tightly.

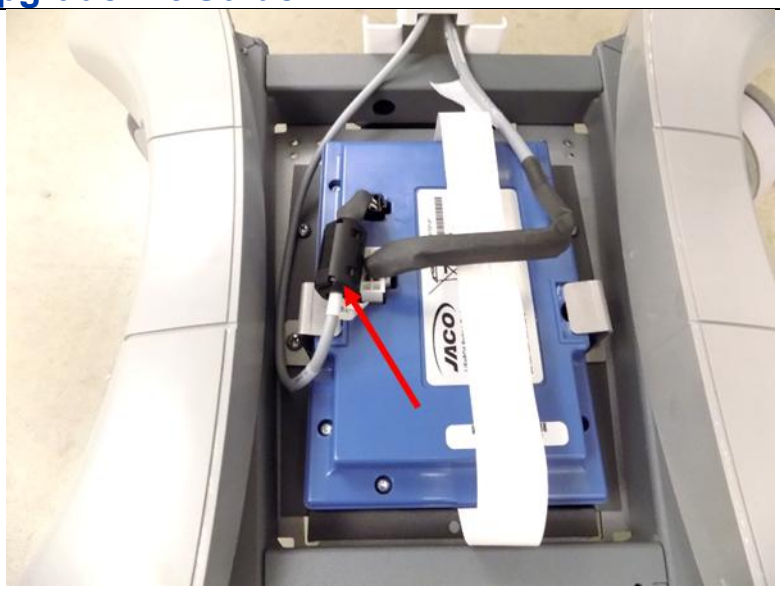

Figure 11: Attach the Second Ferrite

12. Reinstall the lower base shroud. Secure the shroud in place using the 2 Phillips screws removed in Step 10 as shown in Figure 12.

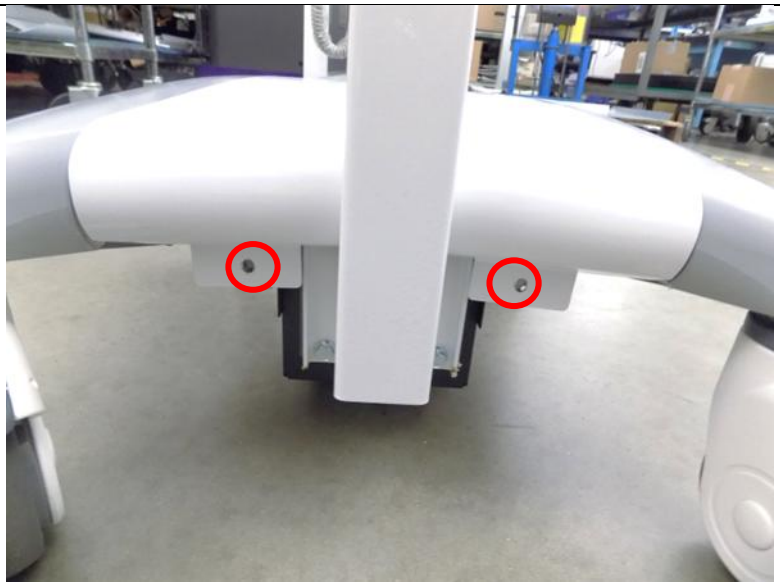

Figure 12: Re-attaching the Base Shroud

13. Re-install the work surface by sliding it into place, then plug the cart into the wall to enable power. The new status module will power up and display battery status as seen in Figure 21.

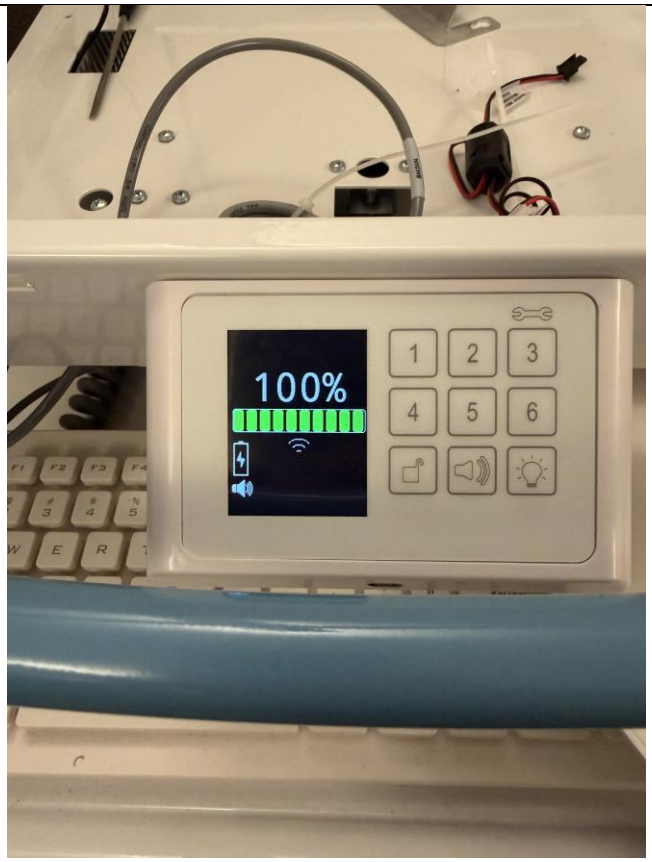

Figure 13: Completed Cart

3. Document History

Revision	ECN/DCN	Date	Change Description	Engineering Sign Off
A		13 Oct 2025	Initial Release	Nigel Haley