1 **Purpose.** The purpose of this Installation Instruction is to define the method of assembly, programming, and installation for the Assembly, Window/PCB RFID/Software.

2 **Scope.** This instruction is applicable to the Assembly, Window/PCB RFID/Software (12-127-001) of the EcoRex Collection Stations.

3 **FCC Statements**

FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Warning Statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Caution:

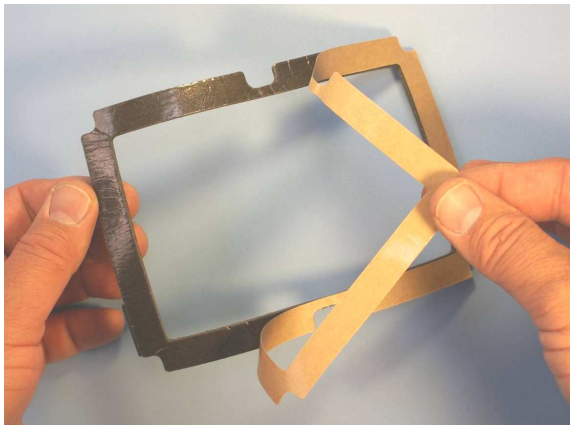
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: For Internal Vesta Medical Use Only!

4 Assembly Instructions

Step 1

1.1 Remove adhesive release layer from the back of Gasket, Level Sensor Window (21-516-001)



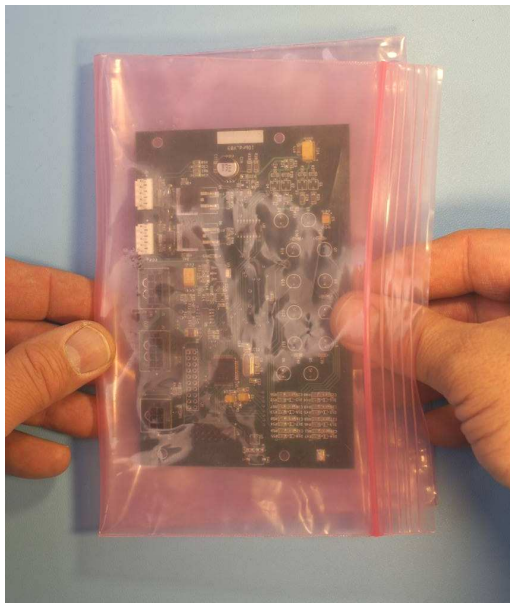
1.2 Carefully align and place the Gasket, Level Sensor Window (21-516-001) adhesive side up on the Gasket Level Sensor Fixture (T1-011-001) .

1.3 Place Gasket, Level Sensor Window (21-516-001) onto the Gasket Level Sensor Fixture (T1-011-001). Press down firmly on edges of window and then remove from fixture.

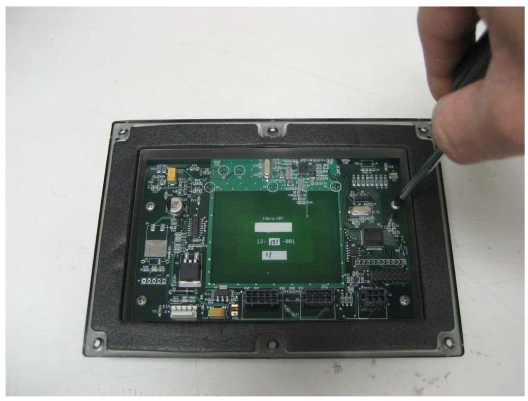
1.4 Secure the Gasket, Level Sensor Window (21-516-001) onto the flange relief by applying even uniform pressure with thumbs along the sealing surface of the gasket.

Step 2

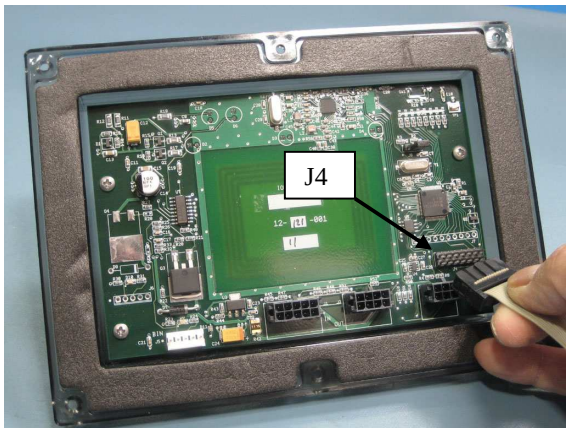
2.1 Place Window, Level Sensor (21-515-001) with the gasket facing up on a clean assembly surface. Put on grounded ESD wrist strap and remove Assembly, PCB, RFID (12-121-001) from the anti-static packaging.

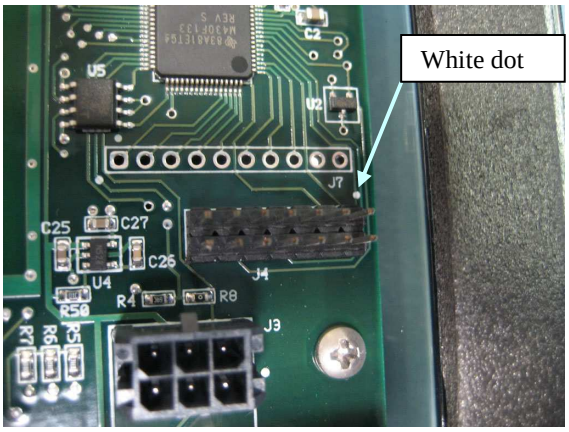


2.2 Place Assembly, PCB, RFID, with the LEDs facing down, into the Window, Level Sensor (21-515-001) and align the four mounting posts in the Window, Level Sensor (21-515-001) with the PCB, I/O, RFID (12-121-001) clearance holes. Install four Screws, Thread-Cutting (31-305-001) into the four mounting bosses to secure the PCB in place. Tighten with driver (#1 Phillips).

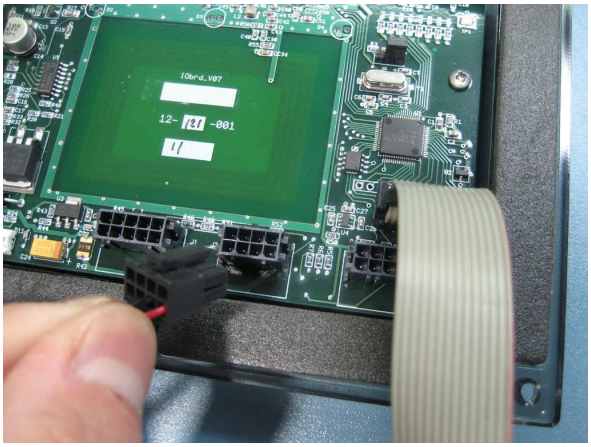


Step 3





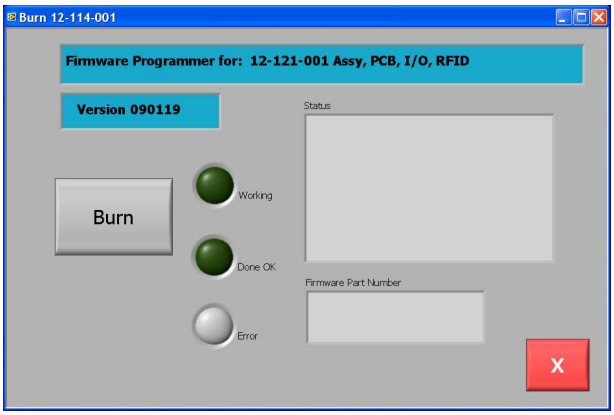
At the board programming station plug the 14 pin connector on Texas Instruments MSP430 USB-Debug-Interface into receptacle J4 on Assembly, Window/PCB RFID/Software. Red wire on 14 pin ribbon cable indicates pin one on connector and should be aligned with white dot indicated on PCB.



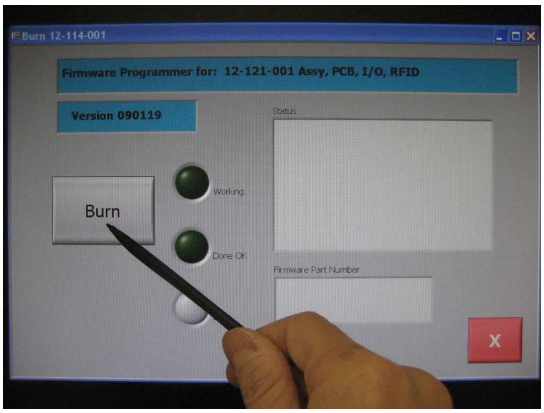
Using 12 volt power supply insert 8 pin connector on I/O power cable into 8 pin receptacle on PCB Assembly.

Verify that the power strip is turned on.

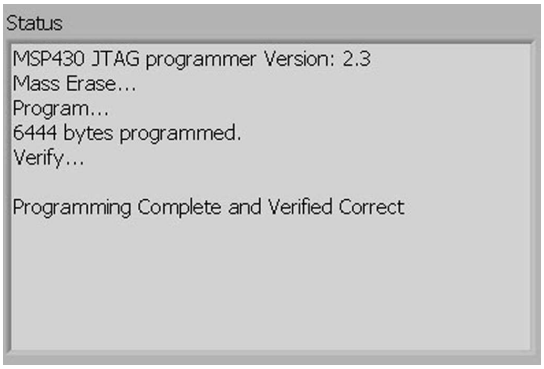
Step 3 (continued)



Double click on the icon named “12-121-001 Assy, PCB,I/O RFID” to start the firmware upload program.

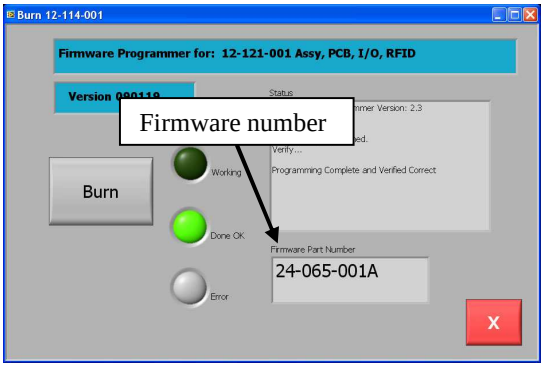


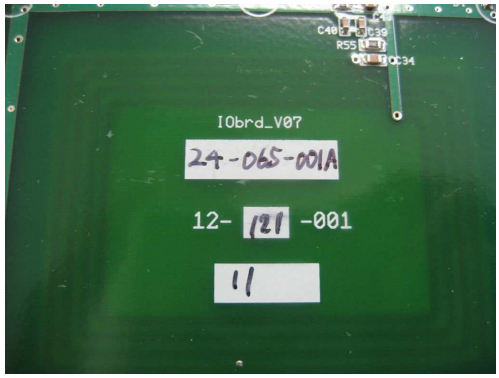
Click once on the “Burn” button to begin firmware upload which will take 3-5 seconds to complete.



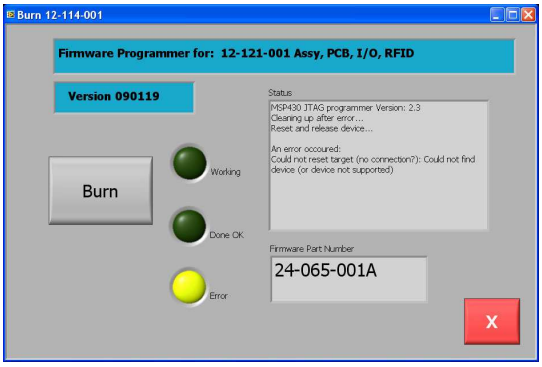
When upload is complete and successful the “Done OK” status indicator will illuminate green and the status screen will read “Programming Complete and Verified Correct”.

Step 3 (continued)





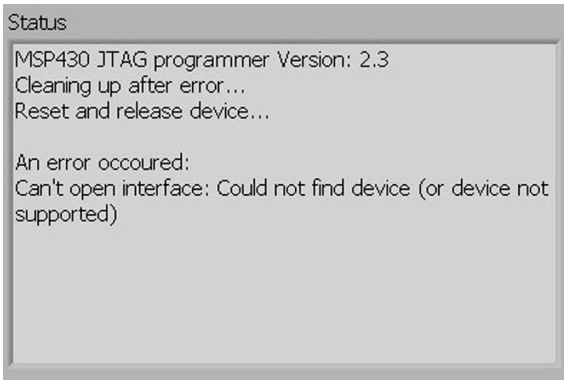
Write Firmware Part Number info using permanent marker on white label area of PCB. Also record the Firmware Part Number Info on the traveler.



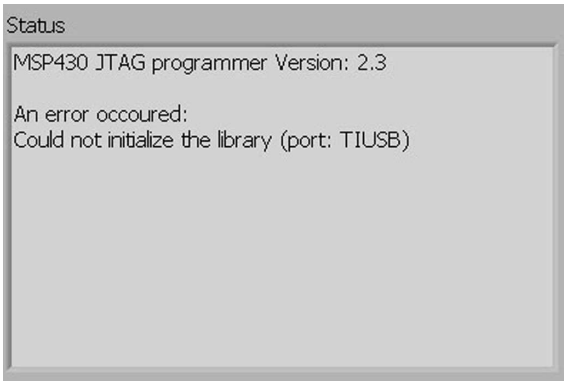
If the yellow indicator comes on during firmware burn a fault has occurred. Troubleshoot by reading the error message in the “Status” box as follows.

If the error message is “Could not reset target (no connection?): Could not find device (or device not supported)”, this indicates there is no power to the PCB Assembly. Check all power connections.

Step 3 (continued)

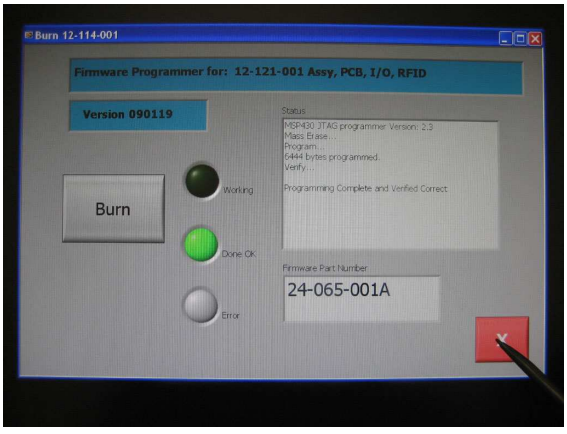


If the error message is “Can’t open interface: Could not find device (or device not supported)”, this indicates that the MSP430 is not connected properly to the PCB. Check the cable connecting the MSP430 to the PCB.



If the error message is “Could not initialize the library (port: TIUSB)”, this indicates that the MSP430’s USB cable is not connected properly. Check USB cable connection to the MSP430 and to the PC computer.

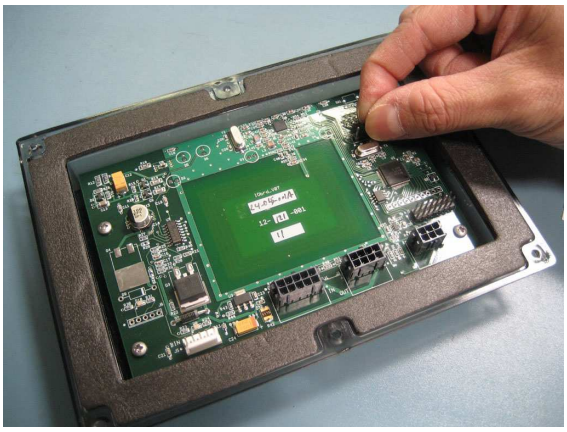
Repeat programming steps for remaining PCB Assemblies.

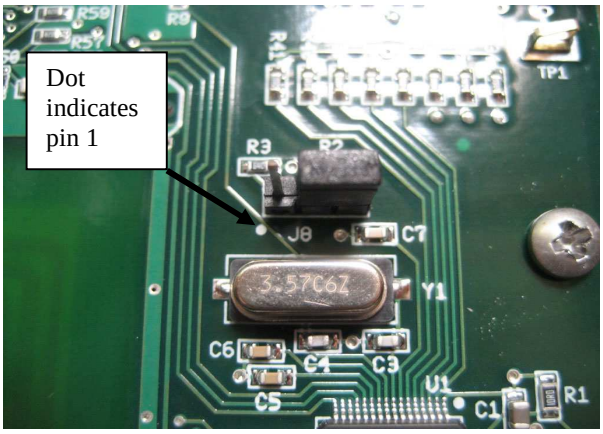


When all PCB Assemblies are programmed, close the program by taping once on the red button with an “X” in the lower right corner of the program screen.

Step 4

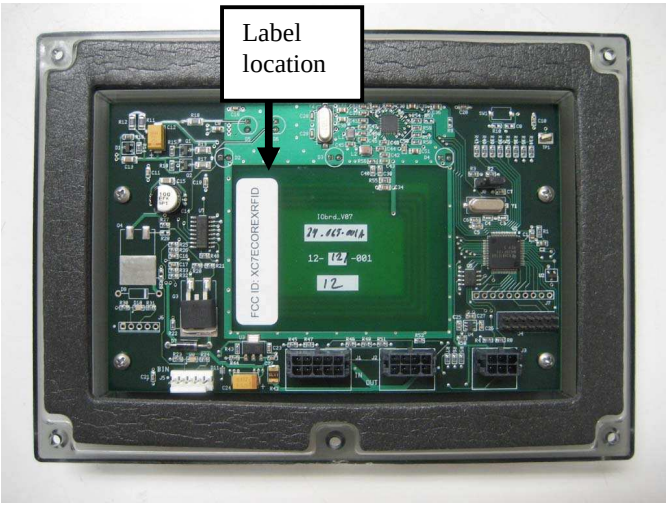
Required parts:
Connector, Jumper Shorting, Gold (32-159-001)





Apply Connector, Jumper Shorting, Gold to pins 2 and 3 of Jumper J8 on each PCB assembly as shown.

Step 5



Remove label 33-100-001 from its backing paper and apply label to location as shown. Do not allow label to cover any printing, writing, electrical components or electrical traces.

Repeat for all 12-127-001 Assemblies required.

Step 6

For cart chassis 11-262-001:
Take a finished 12-127-001 assembly and connect 5 pin connector in cart bay 1 to receptacle J5. Repeat for cart bays 2 through 4.

For Mini cart chassis 11-260-001:
Take a finished 12-127-001 assembly and connect 5 pin connector in cart bay 1 to receptacle J5. Repeat for cart bay 2.

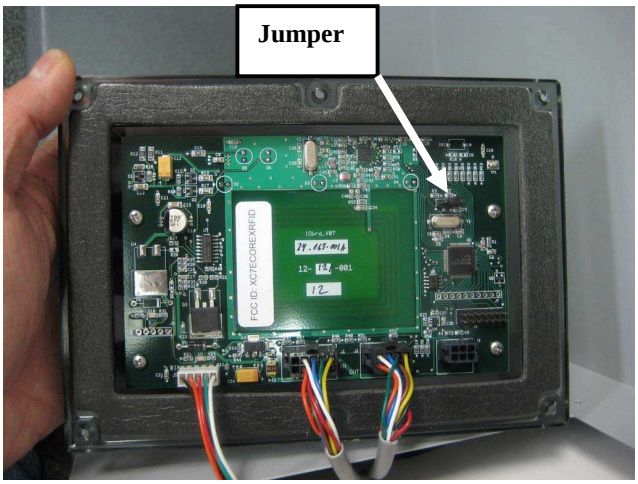
For cart chassis 11-262-001:
Connect 10 pin connector in cart bay 1 to receptacle J6. Repeat for cart bays 2 through 4.

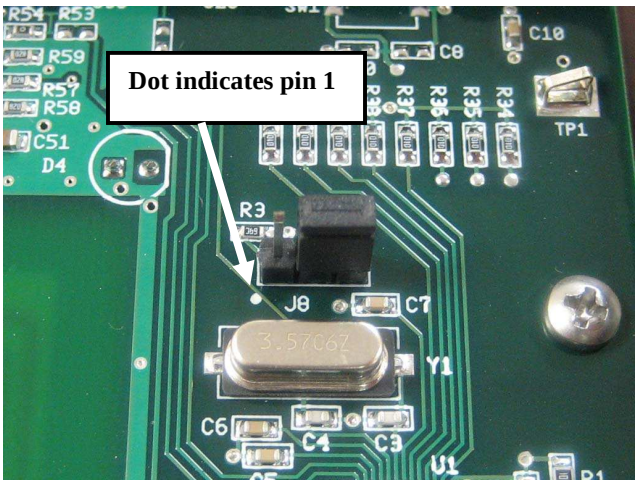
For Mini cart chassis 11-260-001:
Connect 10 pin connector in cart bay 1 to receptacle J6. Repeat for cart bay 2.

For cart chassis 11-262-001:
Connect 8 pin connector in cart bay 1 to receptacle J2. Repeat for cart bays 2 and 3. **Not required for cart bay 4.**

For Mini cart chassis 11-260-001:
Connect 8 pin connector in cart bay 1 to receptacle J2. **Not required for cart bay 2.**

Step 7





Verify Connector, Jumper Shorting, Gold is on pins 2 and 3 of Jumper J8 on each Assembly, Window/PCB RFID/Software as shown.

Step 8

Locate Assembly, Window/PCB RFID/Software in opening of Weldment, Bay and secure with 6 Screw, Oval Head, Phillips, #4-40 X 5/16 (31-298-001). Torque to 6 in-lbs using torque driver and #1 phillips bit.

For cart chassis 11-262-001: repeat for cart bays 2 through 4.

For Mini cart chassis 11-260-001: repeat for cart bay 2.