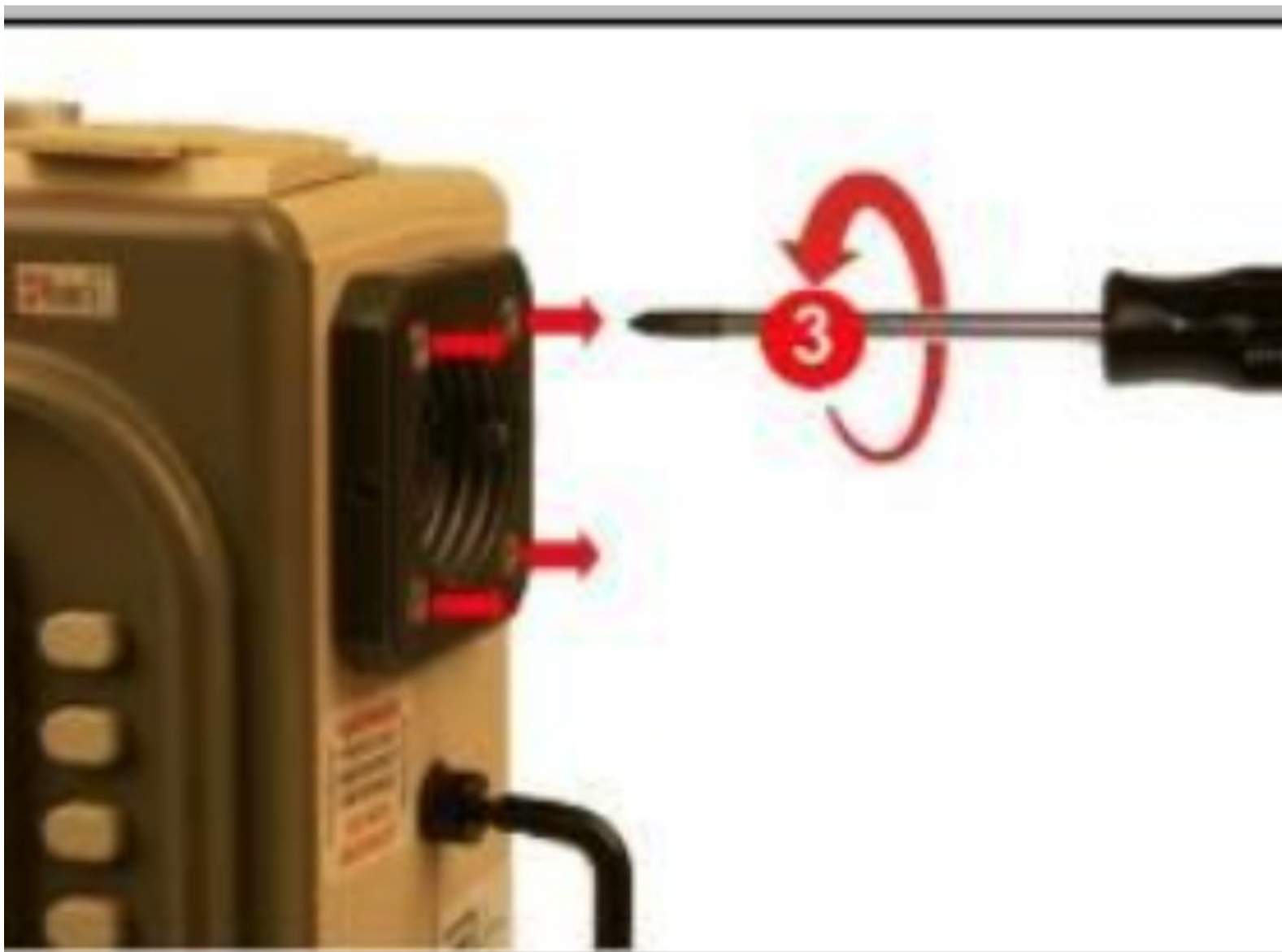




Zoll Impact Uni-Vent 731 SPM Vent Kit Replacement

This guide will demonstrate the steps in order to repair a SPM Vent Kit in a Zoll Impact Uni-Vent 731.

Written By: Brandon Drury



INTRODUCTION

The following guide will provide instructions on how to repair a SPM Vent Kit in a Zoll Impact Uni-Vent 731. This is a useful guide if there are any damages to the SPM Vent Kit and it needs to be replaced.

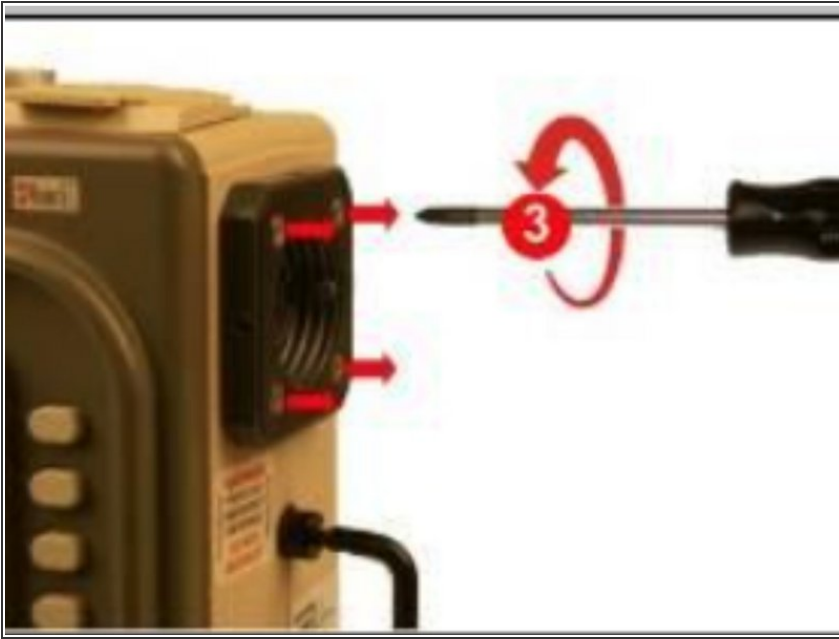
For more information on replacing the SPM Vent kit, please refer to **page 21** in the service manual.



TOOLS:

- [Phillips #0 Screwdriver](#) (1)
-

Step 1 — SPM Vent Kit



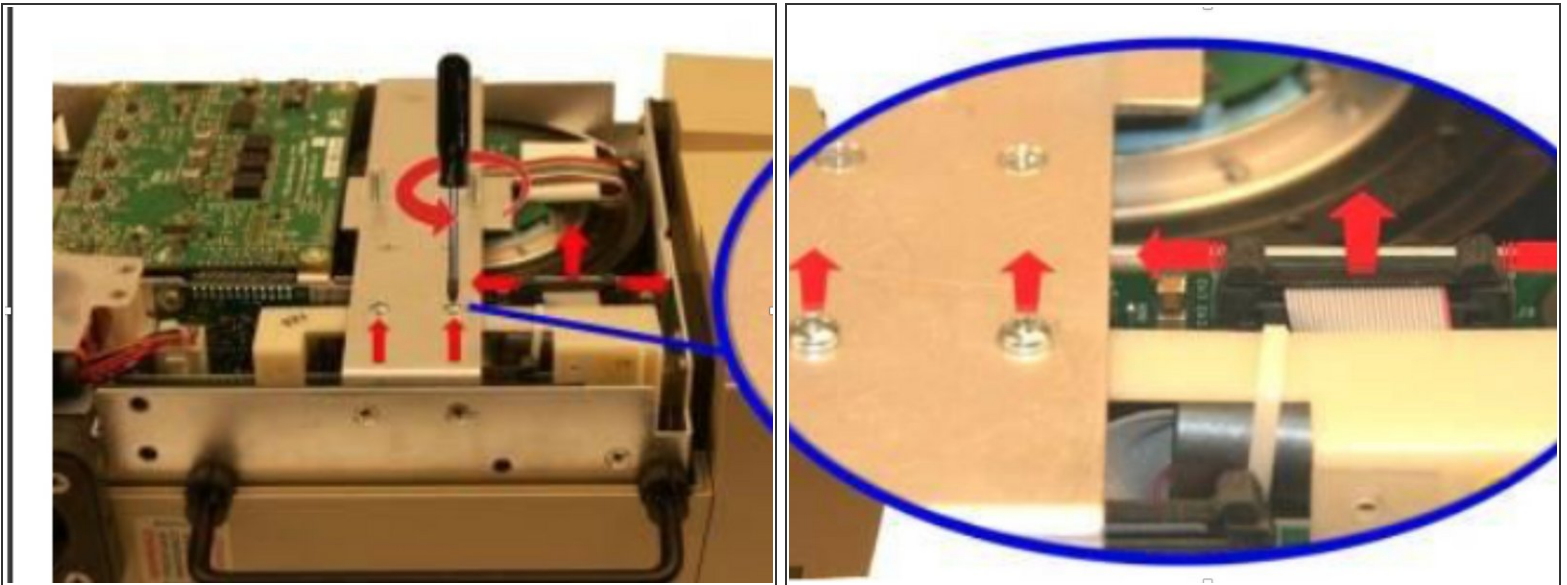
- Loosen but do not remove the (4) 8-32 X 3 screws on the outer air intake.

Step 2



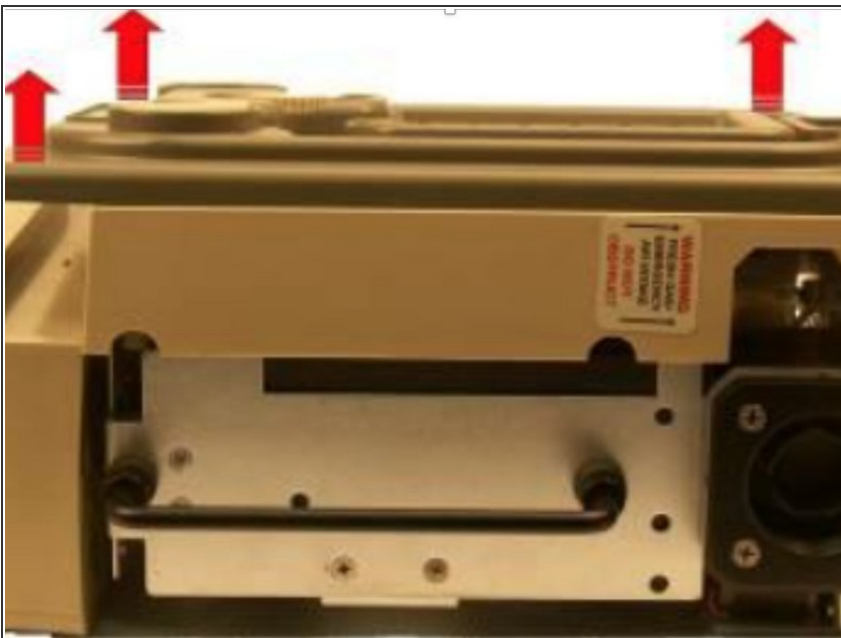
- Loosen and remove the (2) 10-32 Keps nuts and the (4) 6-32 X 2 screws. Remove the back case by lifting from the ventilator.

Step 3



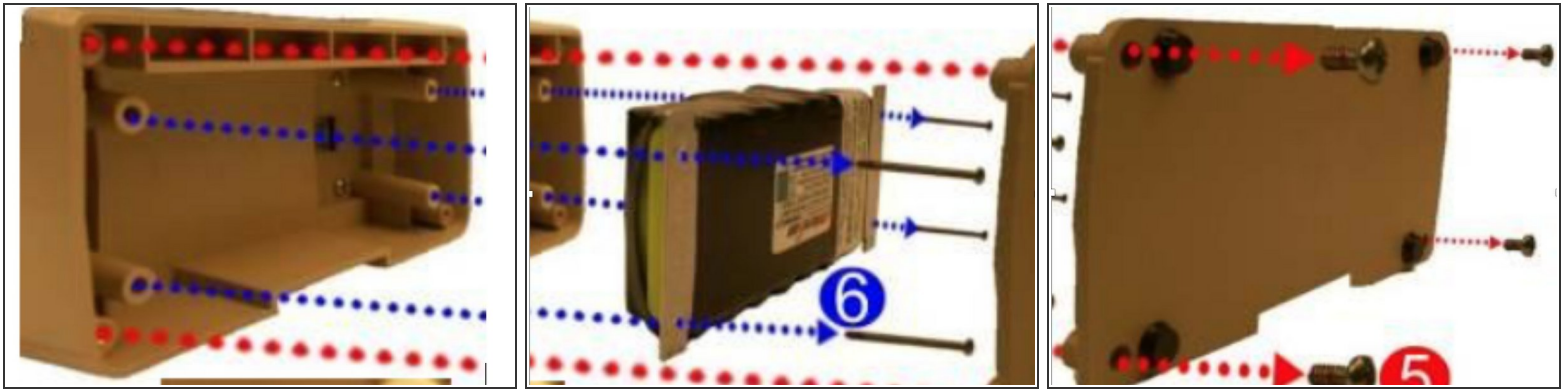
- Remove the (2) 4-40 X ¼ screws on the Dovetail Mounting Bracket and disconnect the ribbon cable on the PIM PCB by simultaneously applying pressure on the two locking “ears”.

Step 4



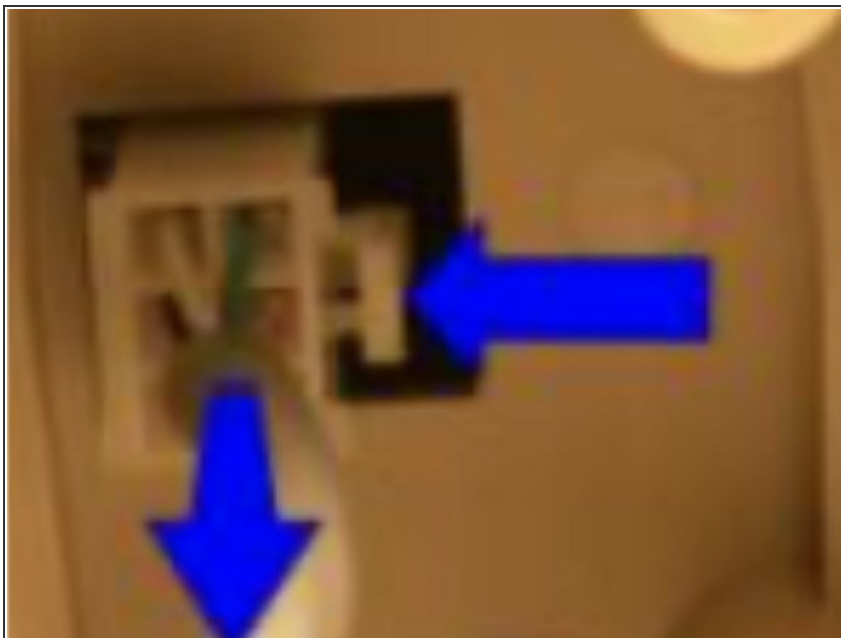
- Flip the ventilator over and remove the front case assembly by lifting it straight up away from the ventilator module.

Step 5



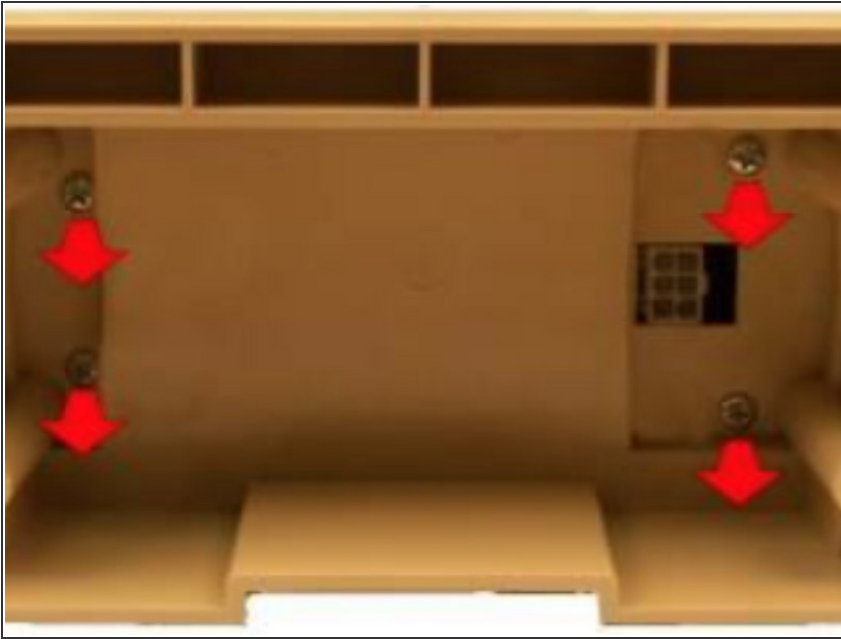
- Remove the battery compartment cover by unscrewing the (4) 6-32 X 5/16 screws.

Step 6



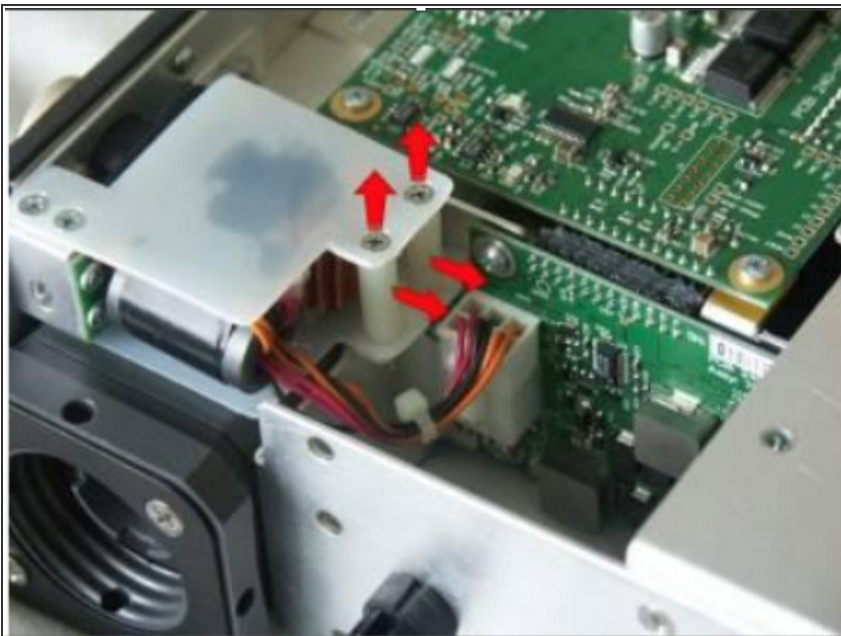
- Remove the battery by unscrewing the (4) 6-32 X 2 1/4 screws and detaching the plug from its locking latch.

Step 7



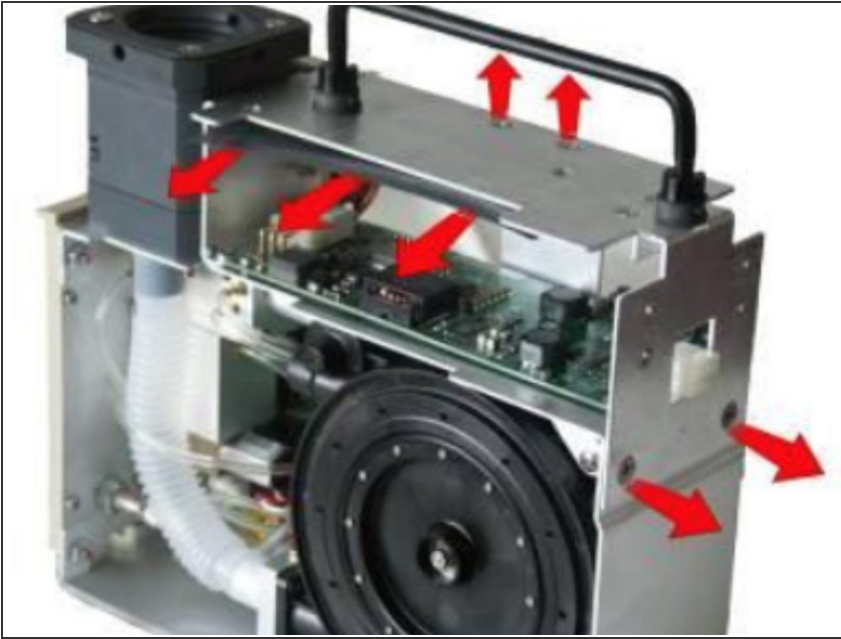
- Unscrew the (4) 6-32 X 5/16 Phillips screws to remove the damaged battery compartment case.

Step 8



- Loosen and remove the (2) 4-40 X 1 ¼ Screws and nylon spacers supporting the Power Input assembly unto the chassis

Step 9



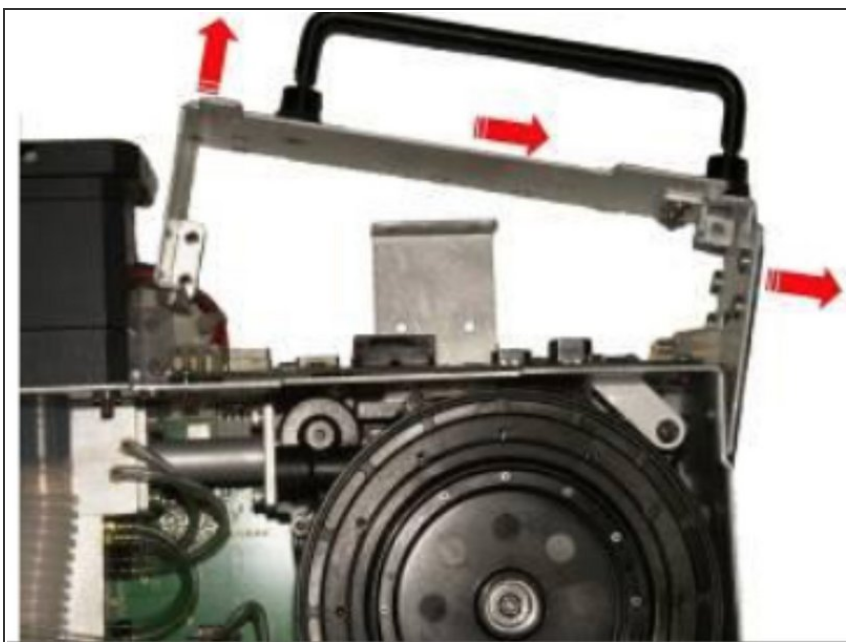
- Loosen and remove the (2) 6-32 X 1/4 screws holding the chassis to the dovetail mounting bracket and remove the SPO2 insulator. Loosen and remove the (2) 8-32 X 1/4 screws holding the chassis to the vent module

Step 10



- Insert screwdriver through the holes on the chassis to loosen and remove the (2) 6-32 x 5/16 screws holding the chassis to the vent module.

Step 11



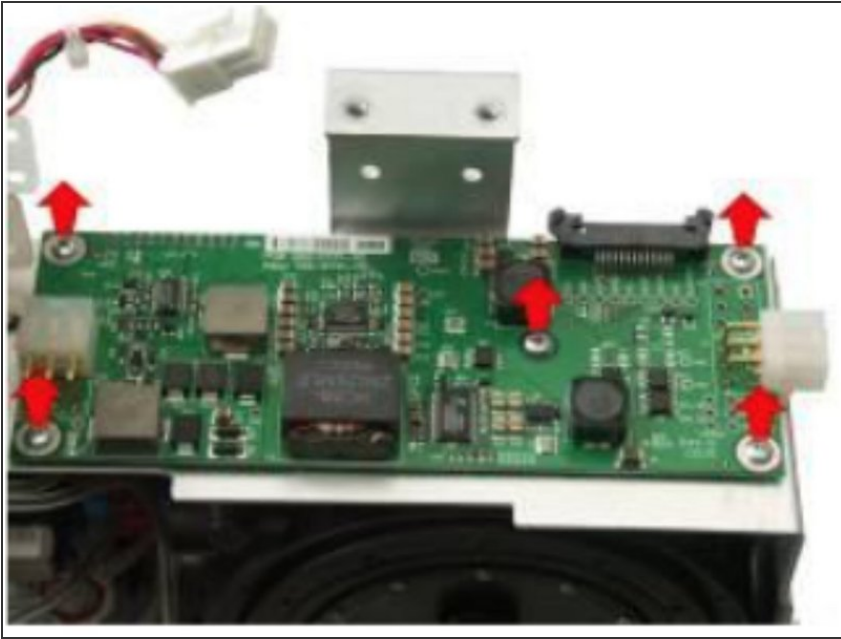
- Lift the damaged chassis from the ventilator module.

Step 12



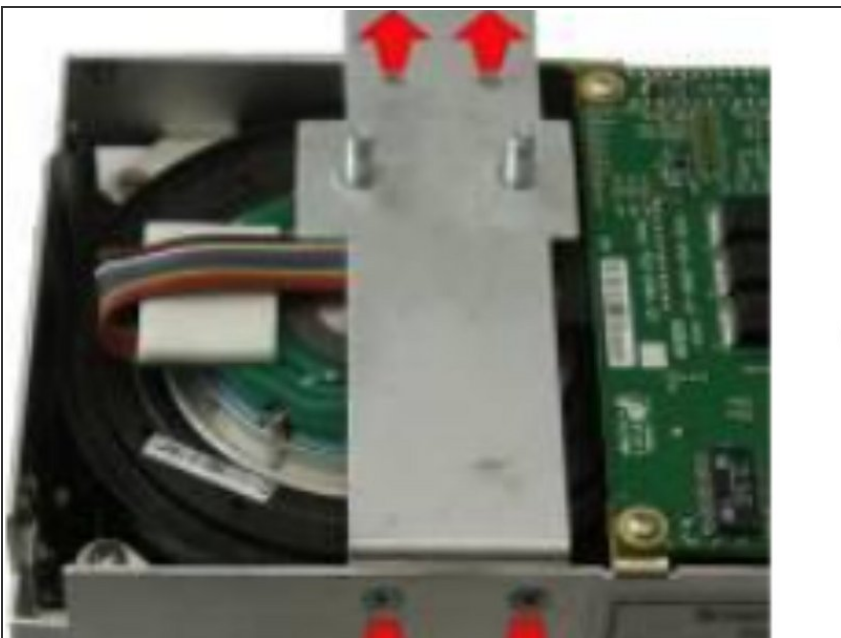
- Disconnect the Power Input cable from the PIM PCB by pressing on the locking latch and pulling the cable straight up from the connector.

Step 13



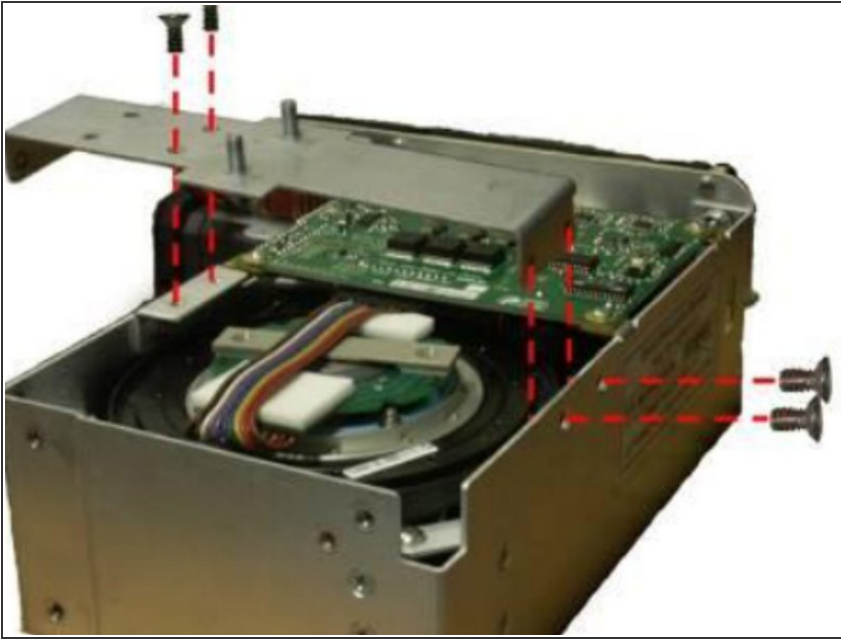
- Remove the PIM PCB by loosening the (5) 4-40 X 5/16 screws.

Step 14



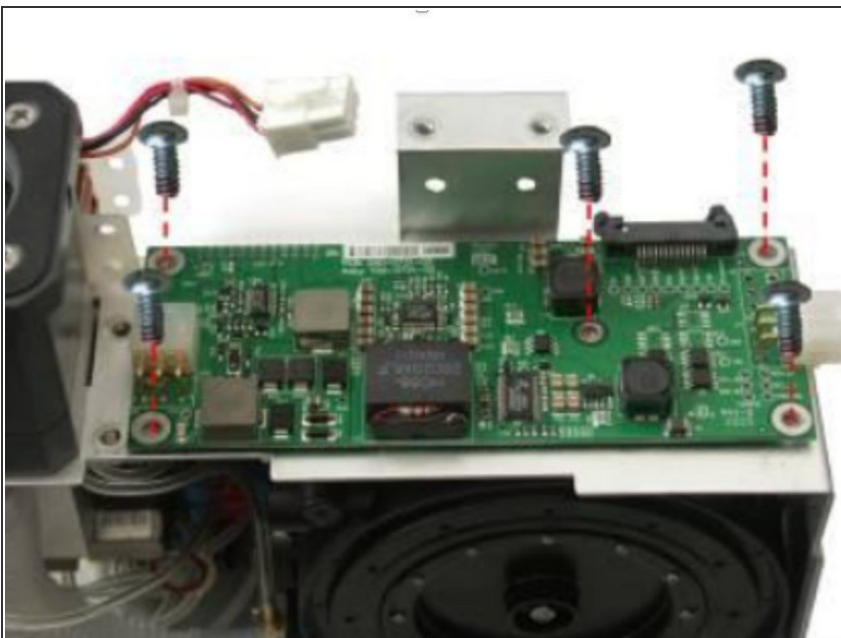
- Remove the Dovetail stabilizer bracket by loosening and removing the (2) 6-32 x 1/4 and the (2) 4-40 X 1/4 screws.

Step 15



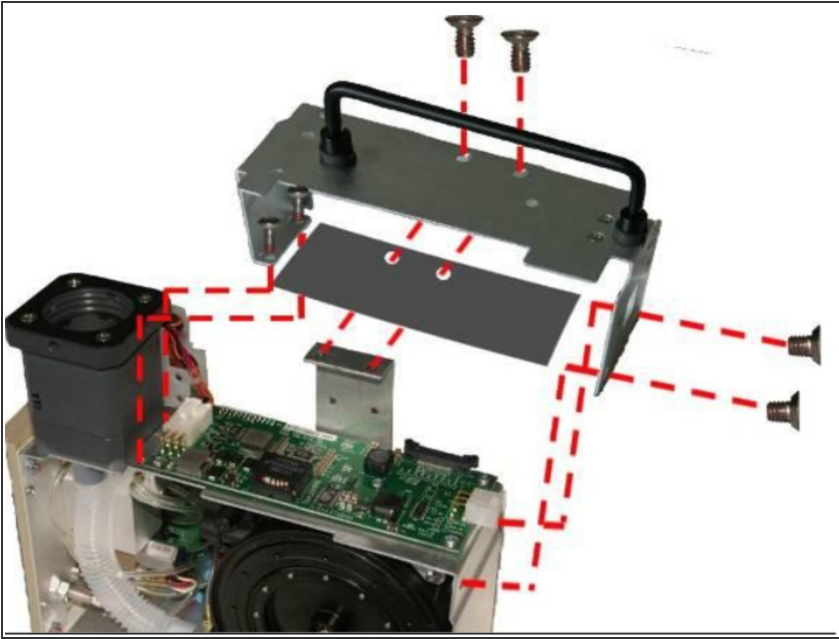
- Install the dovetail stabilizer bracket onto the new SPM assembly by tightening the (2) 6-32 X 1/4 and (2) 4-40 X 1/4 screws.

Step 16



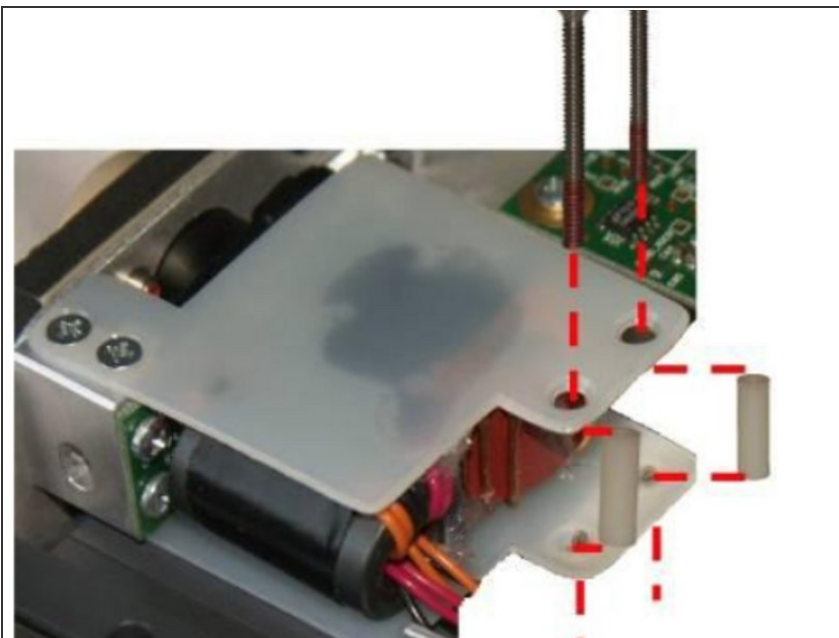
- Secure the PIM Board to the new SPM with the (5) 4-40 x 5/16 screws.

Step 17



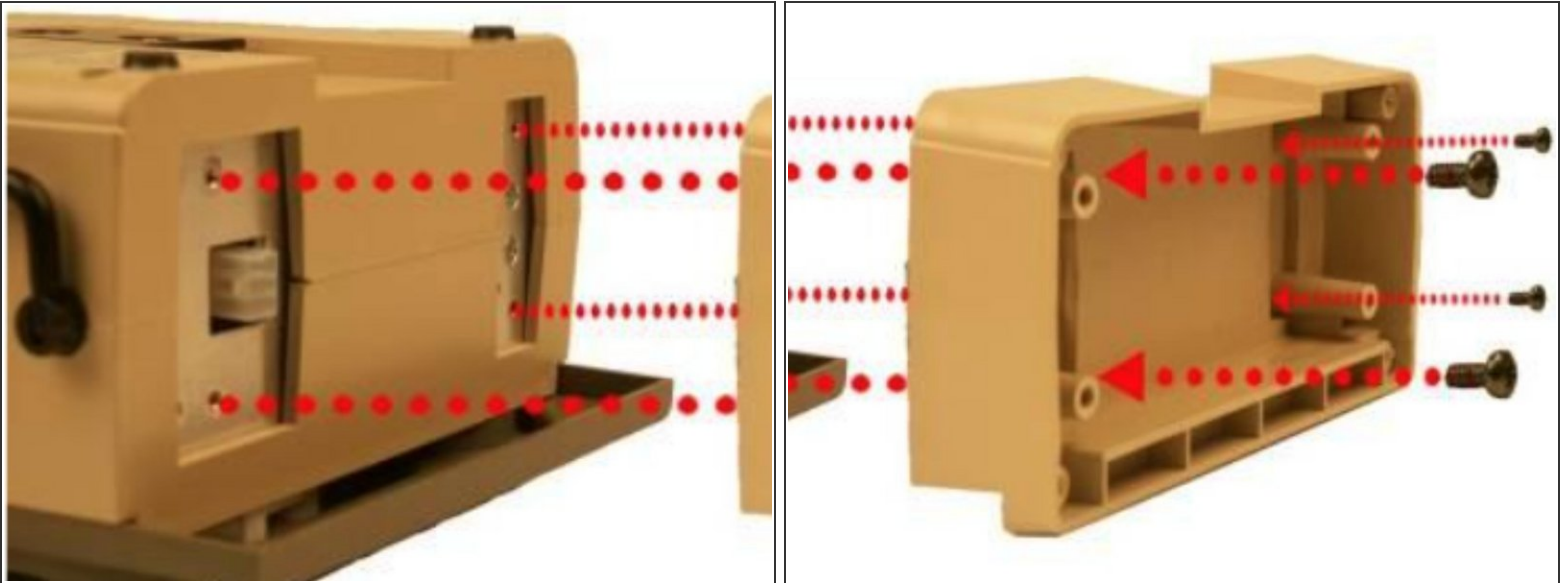
- Secure the chassis to the vent module using the (2) 6-32 X $\frac{1}{4}$ screws with SPO2 insulator, the (2) 8-32 X $\frac{1}{4}$ and the (2) 6-32 x $\frac{5}{16}$ screws.

Step 18



- Secure the Power Input assembly to the Chassis using the (2) spacers and (2) 4-40 X $1\frac{1}{4}$ screws. Do not over-tighten the screws.

Step 19



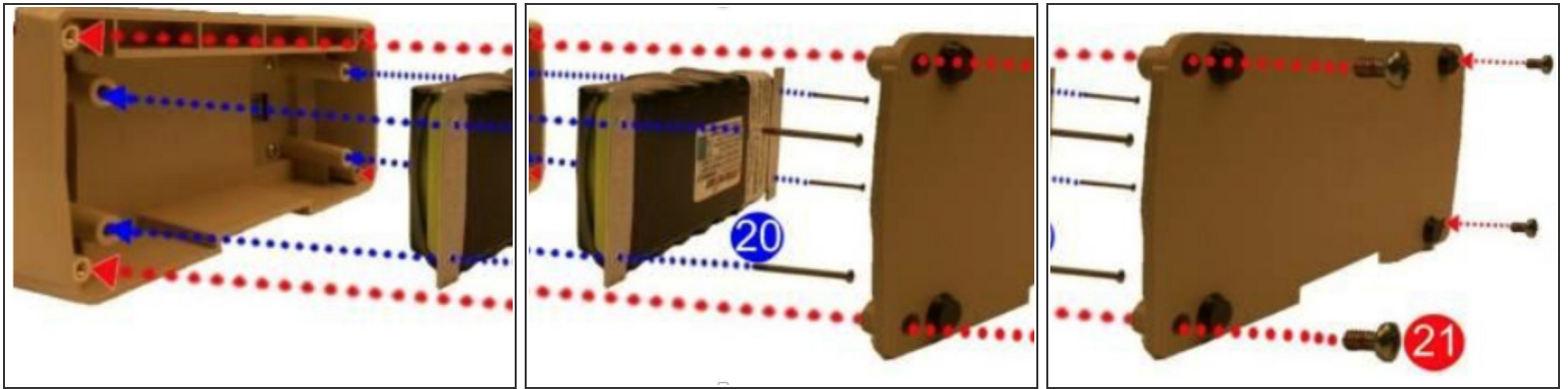
- Rotate battery compartment to mate with upper and lower case cutouts and press firmly into place. Secure with (4) 6-32 X 5/16 screws provided

Step 20



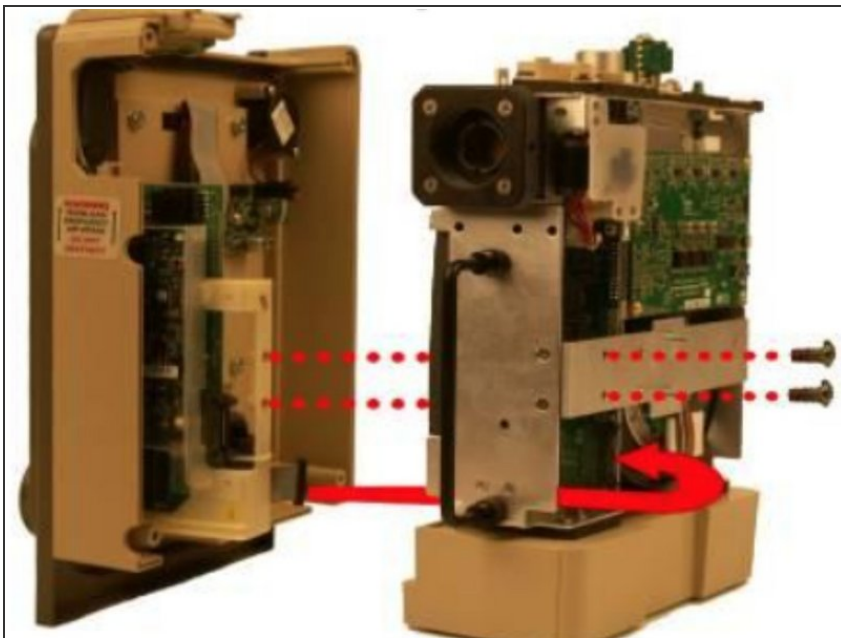
- Re-assemble the battery by connecting its cable to the connector (pull on cable to insure it is locked in place) then tightening the (4) 6-32 X 2 1/4 screws.

Step 21



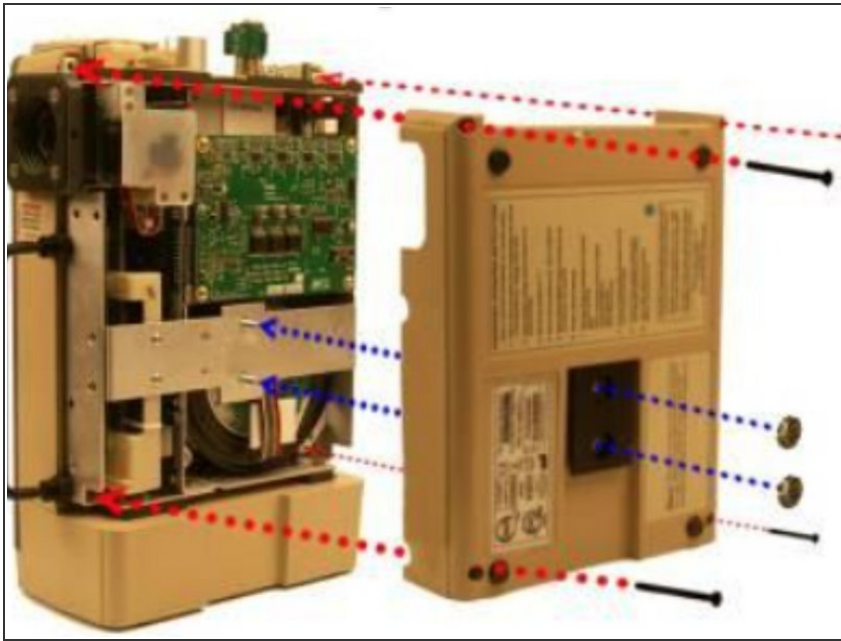
- Re-assemble the battery compartment cover by tightening the (4) 6-32 X 5/16 screws.

Step 22



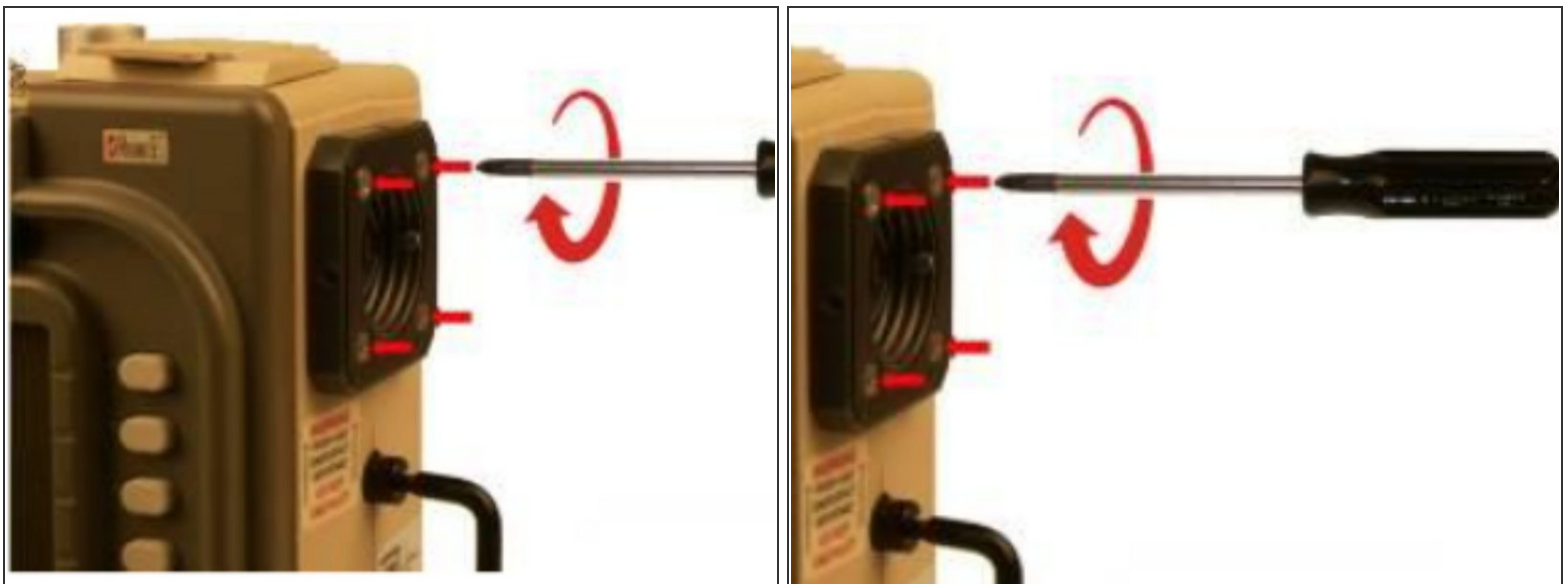
- Place the front case assembly over the vent module and tighten the (2) 4-40 X 1/4 screws unto the dovetail mounting bracket. Reconnect the ribbon cable unto the PIM PCB. Make sure the two locking “ears” lock into position.

Step 23



- Attach the back case to the vent module and align cover with handle, air intake housing and dovetail mounting studs. Insert and tighten the included (2) 10-32 Keps nuts and the (4) 6-32 X 2" screws.

Step 24



- Tighten the (4) 8-32 X 3 screws on the outer air intake.

Step 25



- Perform HiPot Testing then perform Calibration and Functional Test using the RCS.

To reassemble your device, follow these instructions in reverse order.