

MANUAL INSTALLATION KIT AIO UPGRADE SPIRE 3.0

SAFETY OVERVIEW

- Read and follow **ALL SAFETY INSTRUCTIONS** in this manual and any warning/caution labels on the unit (decals, labels or laminated cards).
- Read and understand **ALL** applicable **OSHA** (Occupational Safety and Health Administration) safety regulations before operating this unit.

SAFETY ALERT SYMBOL



This is the safety alert symbol. When you see this in the manual or on the unit, be alert to the potential of personal injury or damage to the unit.

Types of Alerts

 DANGER:	Indicates an immediate hazardous situation which if not avoided WILL result in serious injury, death or equipment damage.
 WARNING:	Indicates a potentially hazardous situation which, if not avoided, COULD result in serious injury, death, or equipment damage.
 CAUTION:	Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury or equipment damage.

SAFETY TIPS

- Carefully read and follow all safety messages in this manual and safety signs on the unit.
- Keep safety signs in good condition and replace missing or damaged items.
- Learn how to operate the unit and how to use the controls.
- Do not let anyone operate the unit without proper training. This appliance is not intended for use by very young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- Keep your unit in proper working condition and do not allow unauthorized modifications to the unit.

SAFETY INSTRUCTIONS

WARNING:

Before starting installation, read and understand all safety label and warnings on the machine. Also review and understand all safety instructions in the owners, installation and service manuals.

Failure to comply could result in serious injury, death or damage to the equipment.

QUALIFIED SERVICE PERSONNEL

WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. **Failure to comply could result in serious injury, death or equipment damage.**

SAFETY PRECAUTIONS

WARNING:

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work. **Failure to comply could result in serious injury, death or damage to the equipment.**

CAUTION:

Always be sure to keep the area around the unit clean and free of clutter. **Failure to keep this area clean may result in injury or equipment damage.**

CAUTION:

Note the following: This unit is not designed for use in outdoor locations. The appliance must be placed in a horizontal position. The appliance is not suitable for installation in an area where a water jet would be used.

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TOOLS REQUIRED:

Sl.No	Description
1	#2 Phillips Screwdriver
2	11/32" nut driver or equivalent
3	1/4" nut driver or equivalent
4	wire cutters

INSTALLATION INSTRUCTION:

1. Shut Down unit per proper shutdown procedure
2. Unplug unit from its AC Power source.

WARNING	<p>Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.</p> <p>All wiring and plumbing must conform to National and Local Codes. Failure to comply could result in serious injury, death or equipment damage.</p>
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3. Open door and remove and save ebox cover saving the 2 screws.
4. Separate all USB and power cabling from this wire bundle **except** the wires going to the valves as shown. Final wire separation will be done at a later step as old and new cables will need to be removed or added. **DO NOT WIRE TIE CABLES TOGETHER AT THIS TIME.**

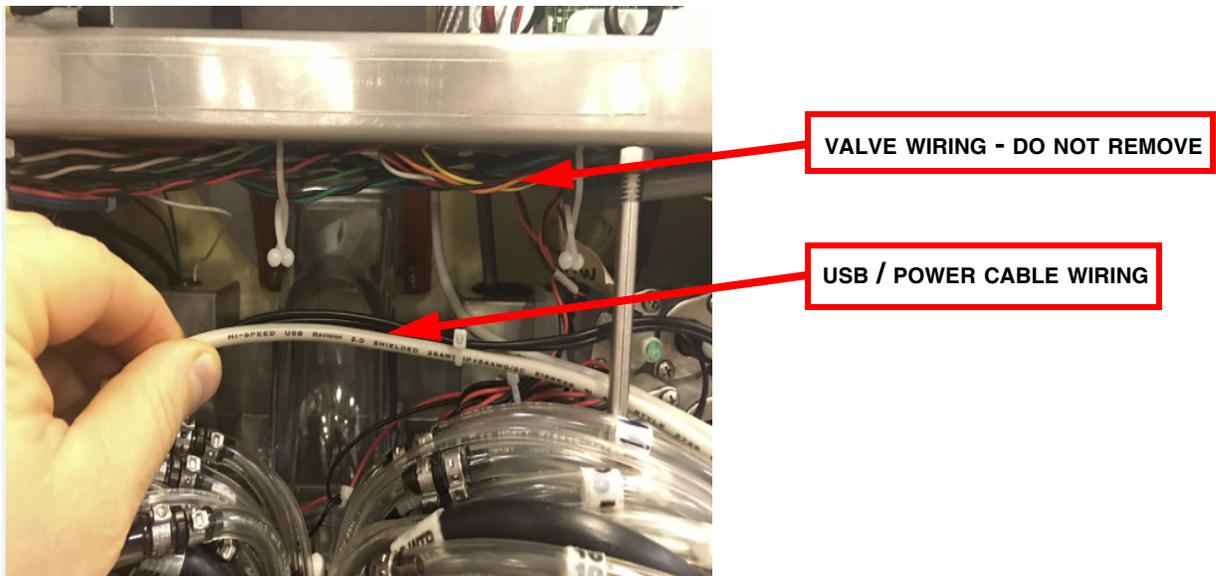


Figure 1

5. Remove sheetmetal door service panel then remove and reinstall both 'A' and 'B' brackets with screws onto **new** panel supplied with the kit. The **old** panel removed from the unit now can be discarded or properly; the **new** panel should be placed off on the side to be reinstalled in a later step.

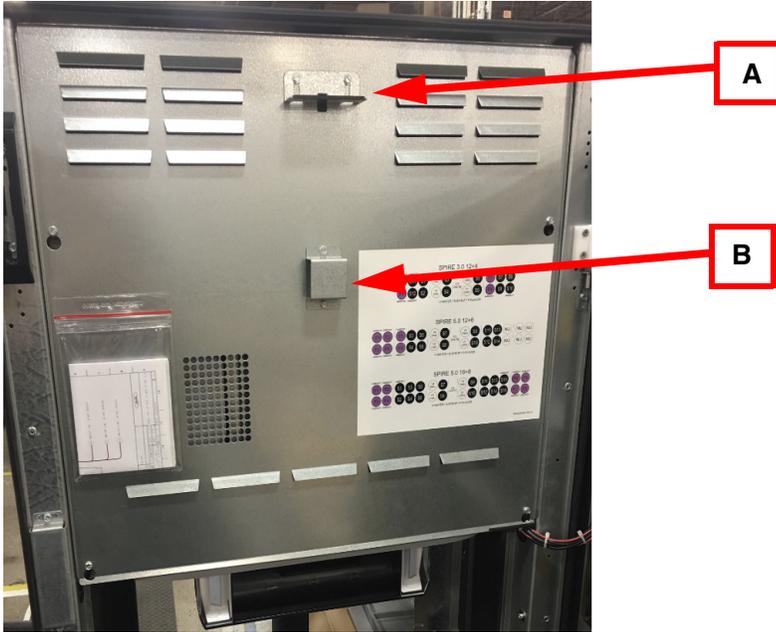


Figure 2

6. Locate the ADA cable (lower left door cross member) and clip on the ferrite supplied in kit as shown.

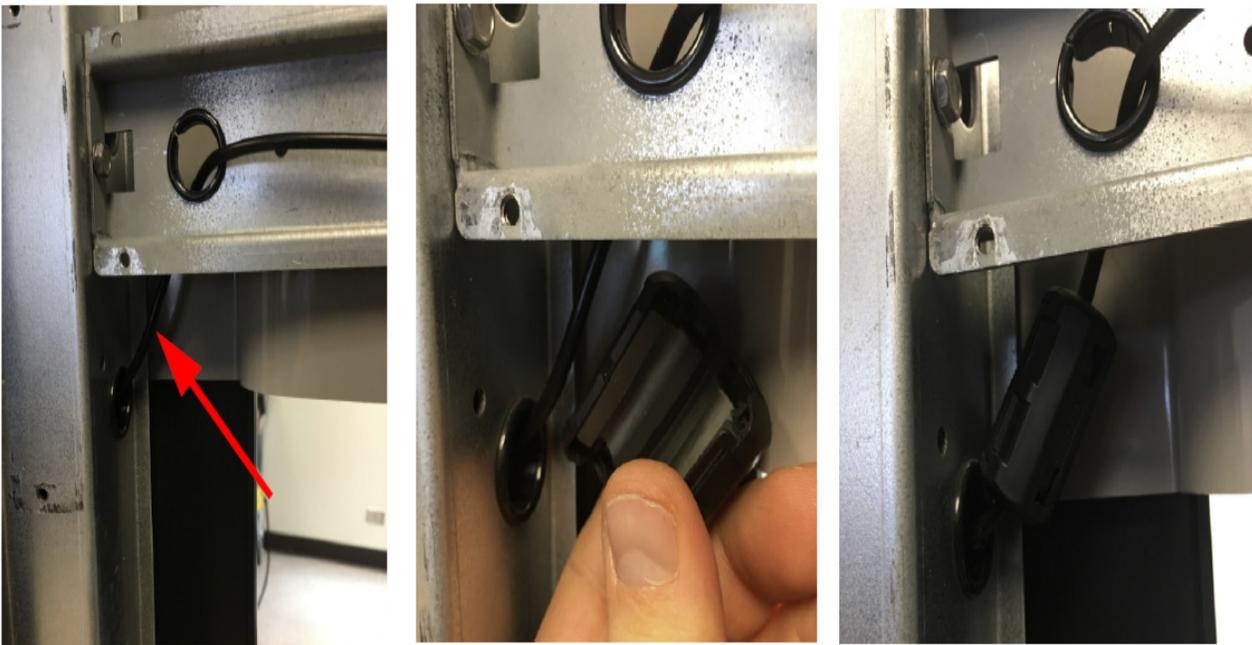


Figure 3

7. Locate the (2) holes shown, one is on the door frame and the other on the unit frame. Using supplied #8-32 thread cutting screws, secure ground bonding jumper as shown.

NOTE: Make sure screws are tightened properly and make sure ground bonding jumper does not interfere with function of the door.

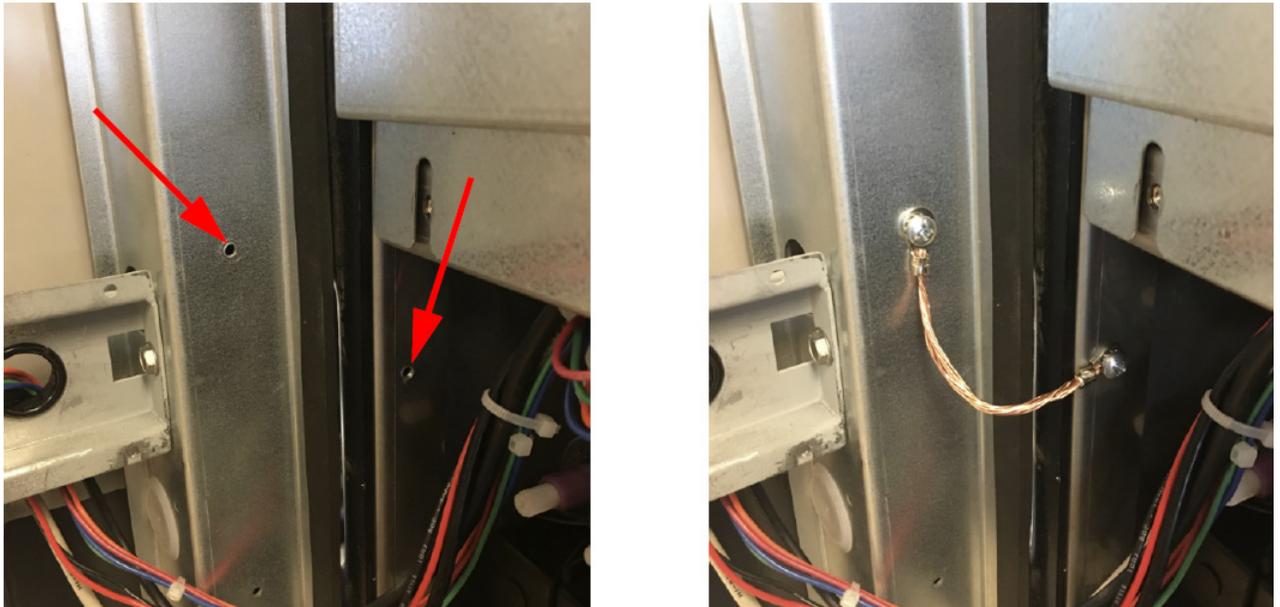


Figure 4

8. Unplug all connections to **old** display; this includes the cove lighting to the LX3 board.

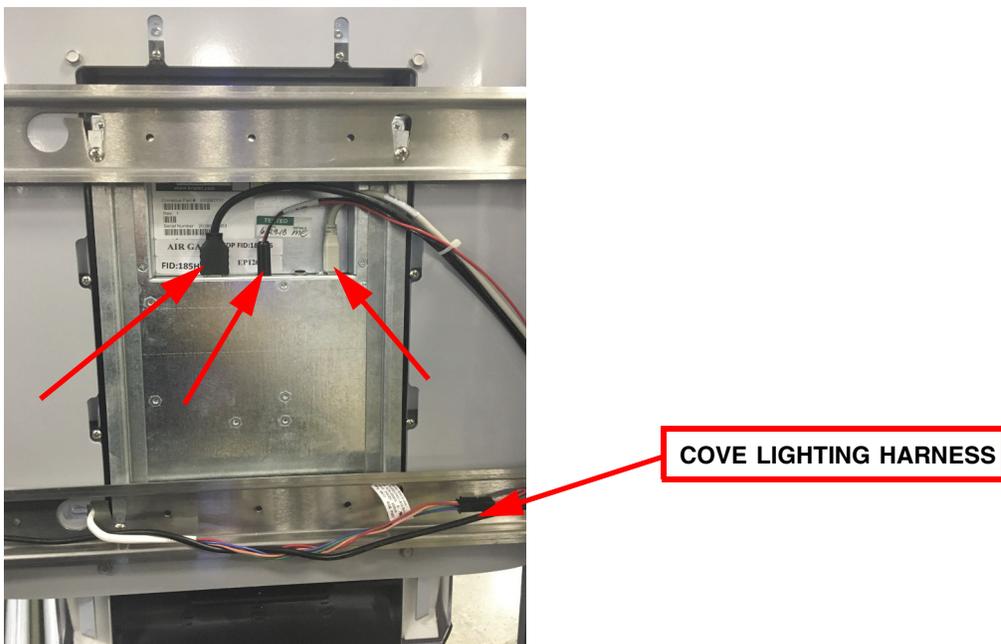


Figure 5

9. Locate NUC inside internal ebox and then disconnect and completely remove cables '1 thru 4' from the NUC and out of the unit. Cable '5' needs to be removed from the unit but saved to be re-used from the AIO display to the USB hub. At this point, the NUC can be removed from the unit as well. The (4) cables and the NUC that are no longer needed and should be properly discarded per local, state or national recycling laws for electronic equipment.

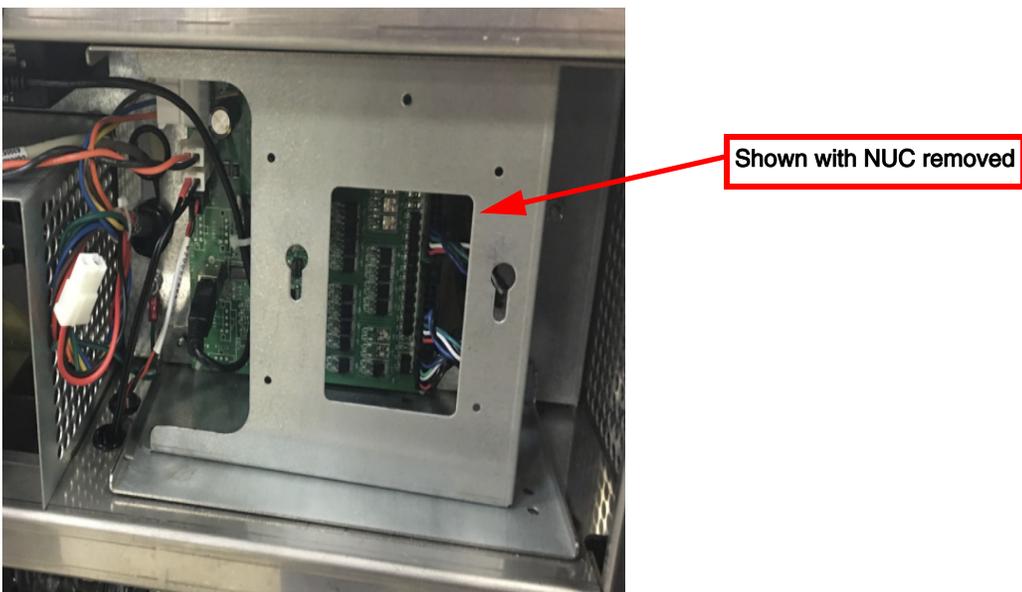
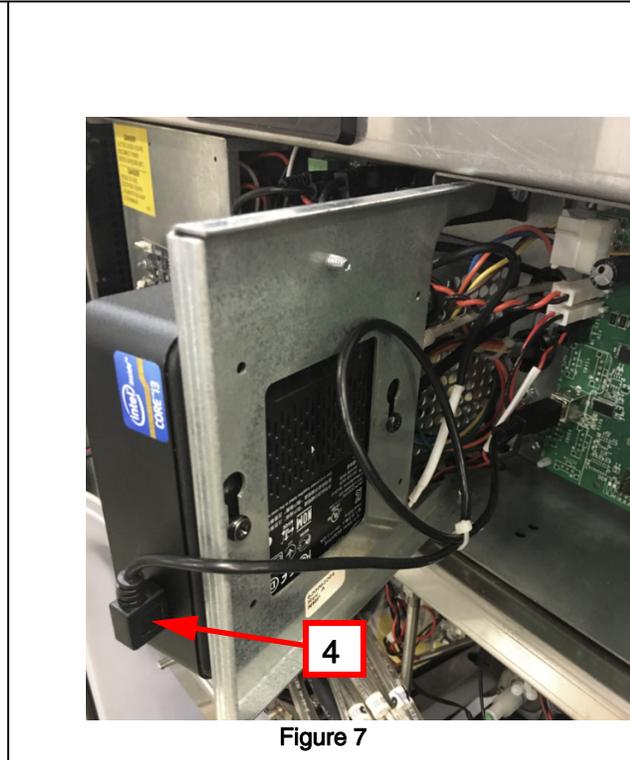
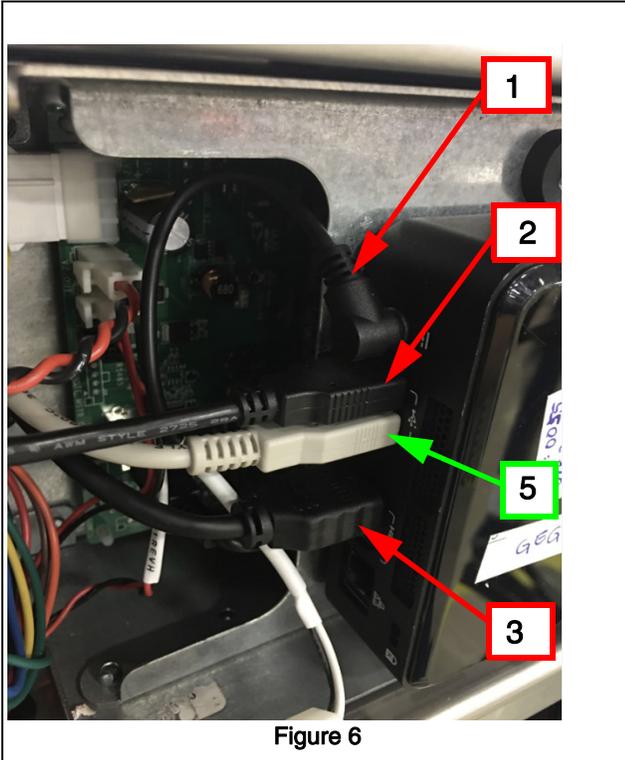


Figure 8

10. Re-install cable '5', saved in step 9, from the USB hub back to the new AIO display, leave display end unconnected for now.

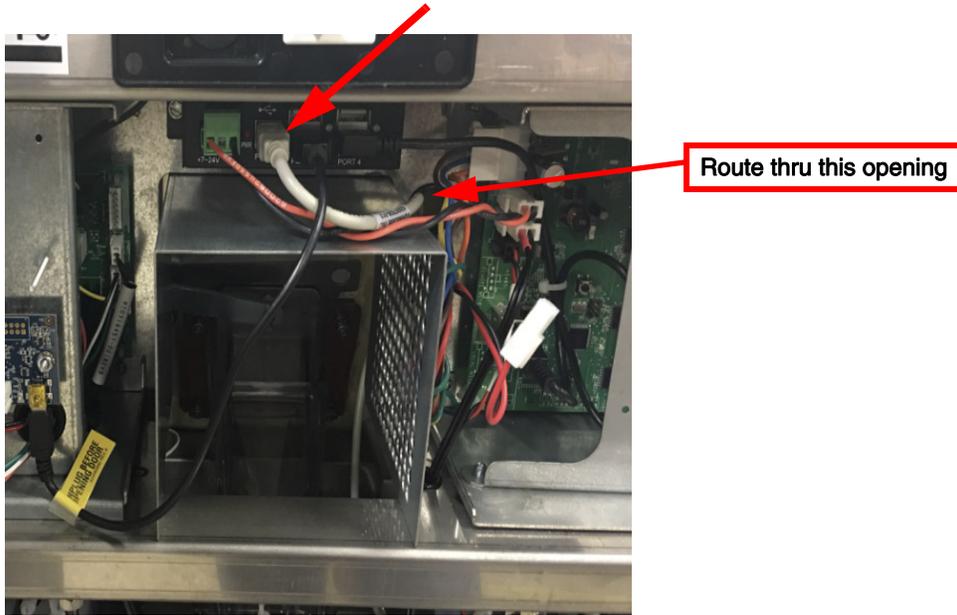


Figure 9

11. Install USB cable supplied in kit from the MFV board to the AIO display as shown. Leave display end unconnected for now.

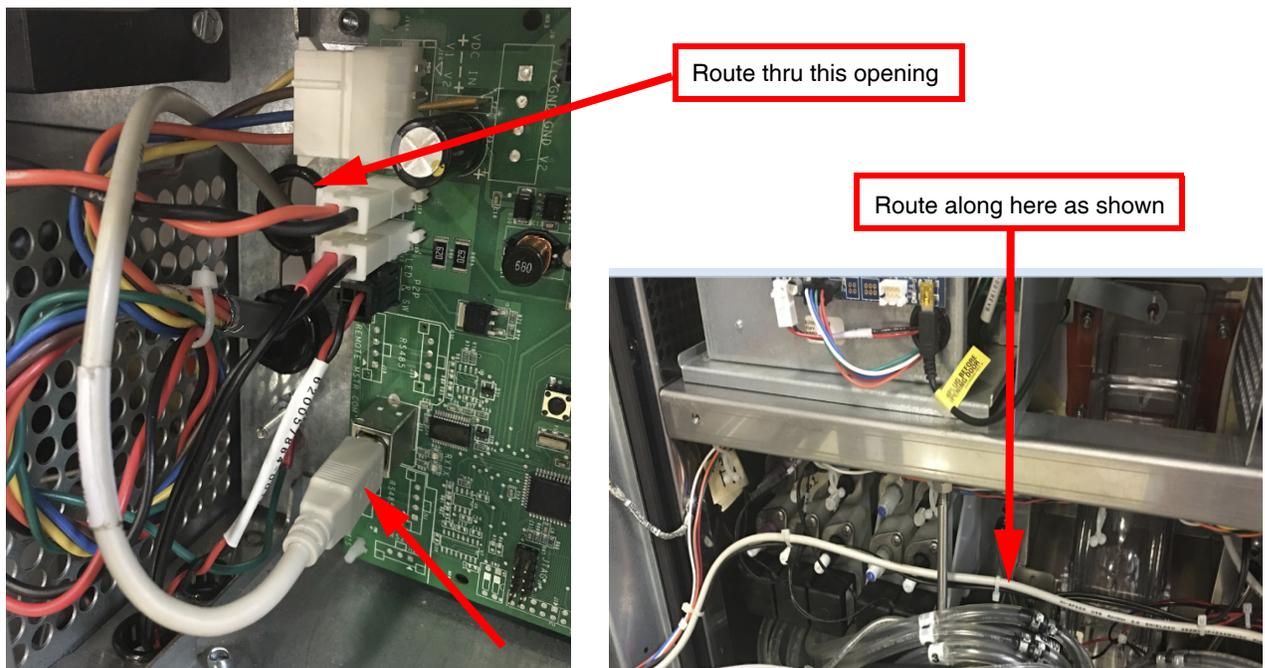
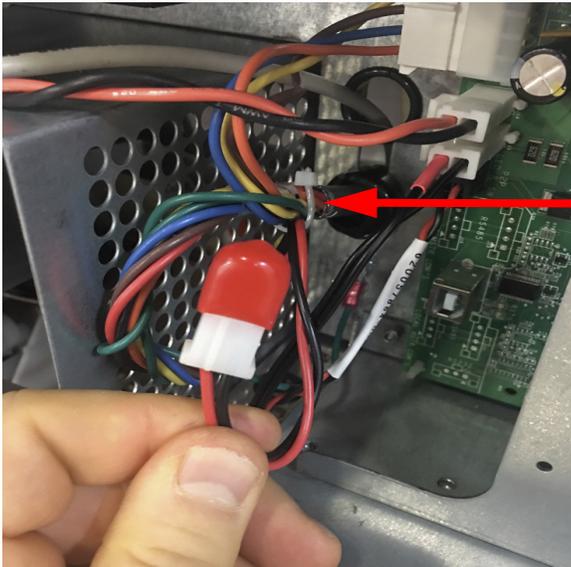


Figure 10

12. Add protective cap, supplied in the kit, to the now unused 19VDC connector in the ebox



Connector on main harness coming from external Ebox.

Figure 11

13. Remove the display assembly from the door by loosening the (4) 'C' screws and removing and saving the (4) 'D' screws.

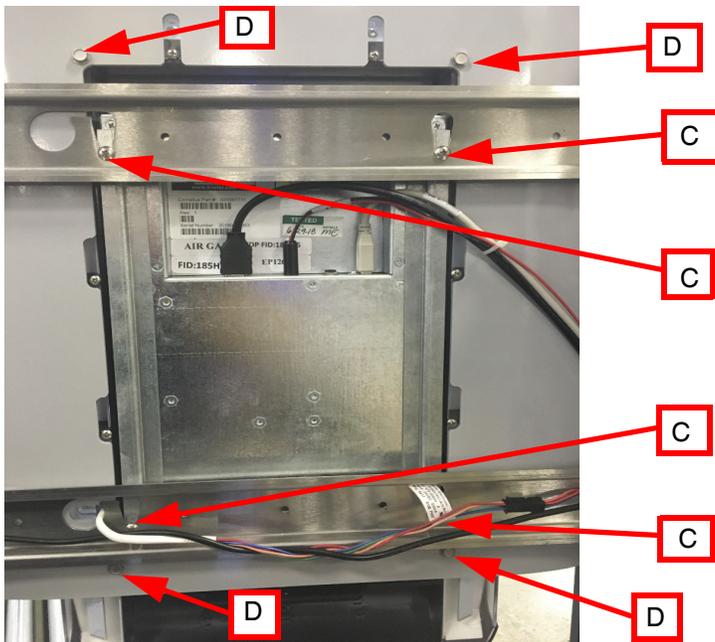


Figure 12

14. Carefully lift up and out the display assembly from the door. Place display assembly on a protected table top, glass side down to get ready to remove lens/lighting.

15. Remove and save the (6) 'E' screws, lift up the lens and place aside and then remove and save the (10) 'F' screws that hold down the lighting boards, lift up the lighting boards and place aside.

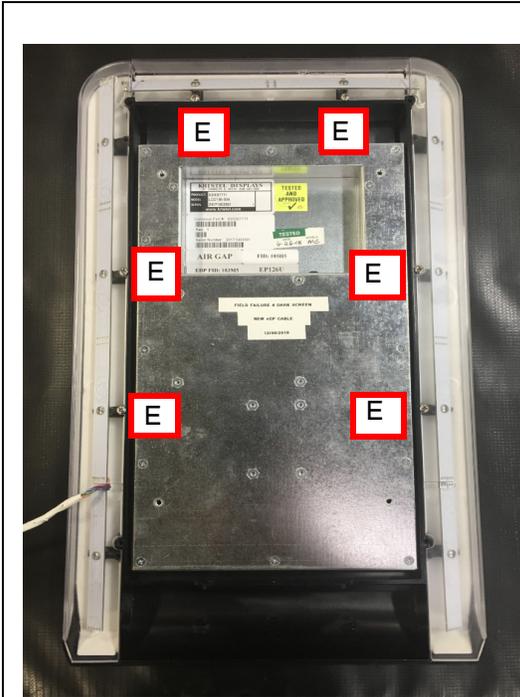


Figure 13

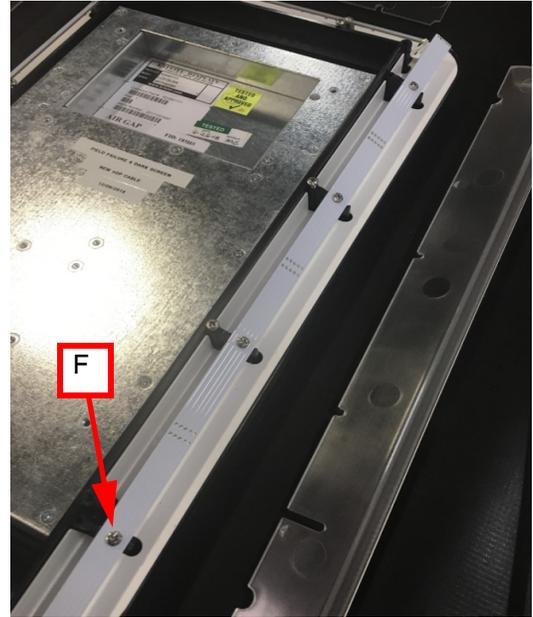


Figure 14

16. Remove and discard the (2) side long white reflectors. Remove and save the top smaller white reflector. The old display and bezel can now be disposed of per local, state or national recycling laws.



Figure 15

17. With the **new** bezel and display supplied in the kit, reassembly in the following order

- a) the top reflector saved in step 16
- b) add the **new** side reflectors supplied with the kit
- c) Reinstall lighting boards saved in step 15

NOTE: Do not overtighten the screws that mount the lens/lighting, these should be hand tight only.

- d) Reinstall lens saved in step 15... make sure the lighting harness is routed thru the lens opening as shown below.

NOTE: Do not overtighten the screws that mount the lens/lighting, these should be hand tight only.

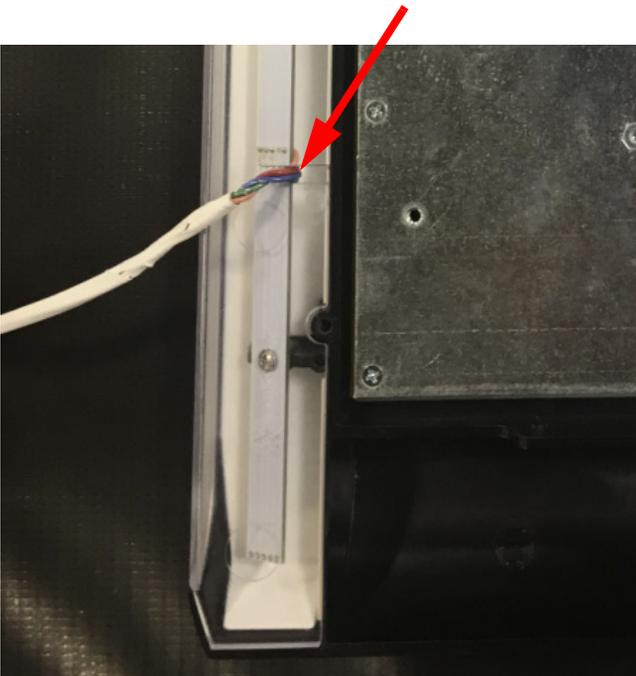


Figure 16

18. Reinstall new display assembly onto the door using the saved 'D' screw from step 5 and retightening the 'C' screws also from step 5. **(DO NOT OVERTIGHTEN)**

19. Make all the following final connections to the display.

- Power plug (from MFV J15 connector)
- USB cable from MFV
- USB cable from USB hub
- ADA USB cable

20. Using the supplied wire ties, secure the USB cables and power cables from the main wire bundle down ward approx. 1.5" to 2" inches. Make sure all wires/cables are cleanly bundled and secured.

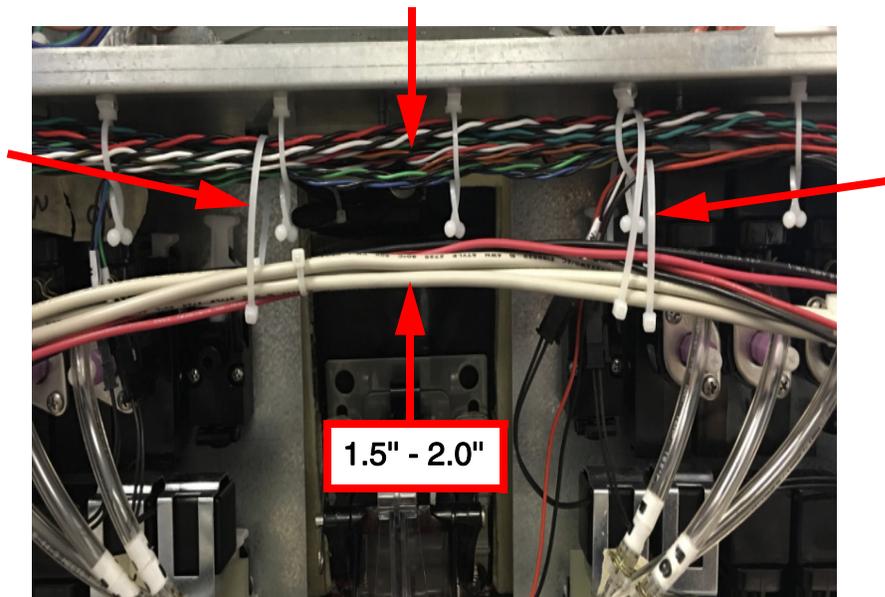


Figure 17

21. Make sure all cables are neatly bundled and wire tied together so that there is no interference with panels or door opening/closure.



Figure 18

22. Install new door service panel and ebox cover with screws saved from step 3. Note wires and cables from door exit underneath service panel. Make sure door opens/closes properly and wires are not being pinched.
23. Close door and power up unit and check for proper operation.

