

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in the machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save the cost of ordering an entire kit.

NOTE: Numbers in parenthesis () are reference numbers for parts listed in Bill of Materials.

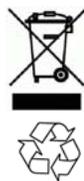
Installation instructions for **kit number AS20152**

SYNOPSIS:

This kit contains the parts needed to replace the control panel on os3 Cleaning Solution Generators. Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: NONE

(Estimated time to complete: 30 minutes)



PROTECT THE ENVIRONMENT

Please dispose of packaging materials, used machine components such as batteries and fluids in an environmentally safe way according to local waste disposal regulations.

Always remember to recycle.

PREPARATION:

1. Record the os3 generator RTU values. (Fig. 1)



FIG. 1

2. Record the os3 generator telephone number. (Fig. 2)

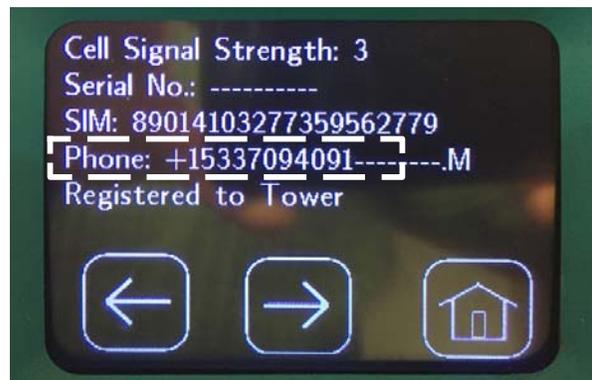


FIG. 2

3. Unplug the os3 generator power cable from the electric source.
4. Turn off the water supply to the os3 generator.

WARNING: Unplug power cord before servicing machine.



INSTALLATION:

1. Remove the top cover from the os3 generator. Set the top cover aside. (Fig. 3)



FIG. 3

2. Use the access key to remove the front access panel from the os3 generator. Set the access panel aside. (Fig. 4)



FIG. 4

3. Remove the hardware securing the front of the interface panel to the os3 generator. Set the hardware aside. (Fig. 5)



FIG. 5

4. Cut the cable tie securing the antenna cable to the os3 generator. (Fig. 6)



FIG. 6

5. Remove the shrink wrap from the antenna cable connection to the antenna jumper cable and disconnect the antenna cable from the antenna jumper and the interface panel. (Fig. 7)



FIG. 7

6. Loosen the hardware securing the top of the interface panel to the os3 generator. (Fig. 8)

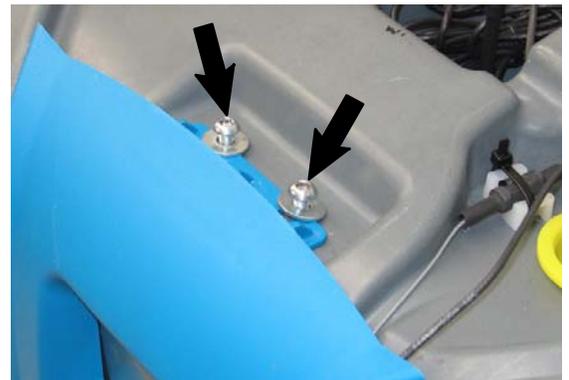


FIG. 8

7. Carefully pull the interface panel away from the os3 generator. **Do Not** break or damage any wires or connections when removing the interface panel. (Fig. 9)



FIG. 9

8. Disconnect the pH probe cable from the interface panel board. (Fig. 10)

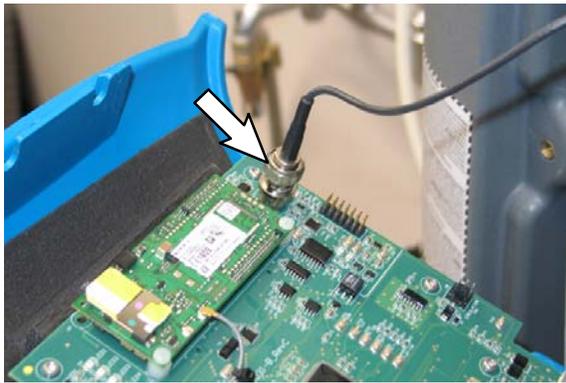


FIG. 10

9. Disconnect the ribbon cable from the interface panel board. (Fig. 11)

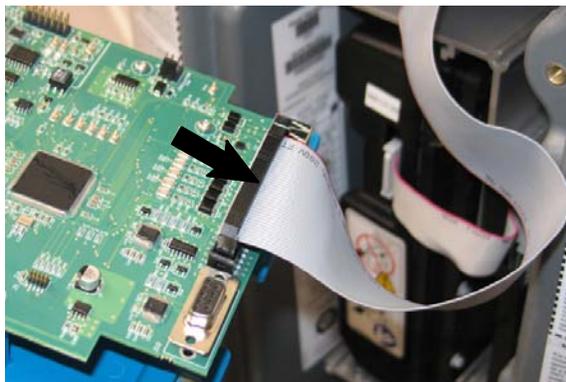


FIG. 11

10. Remove the SIM card from the telemetry modem on the interface panel board. Set the SIM card aside in a safe place where it cannot be damaged. Discard the removed interface panel. (Fig. 12)



FIG. 12

11. Remove the rear cover from the new interface panel. Set the rear cover and hardware aside. (Fig. 13)



FIG. 13

12. Insert the SIM card removed from the old interface panel board into the new interface panel board. (Fig. 14 / Fig. 15)

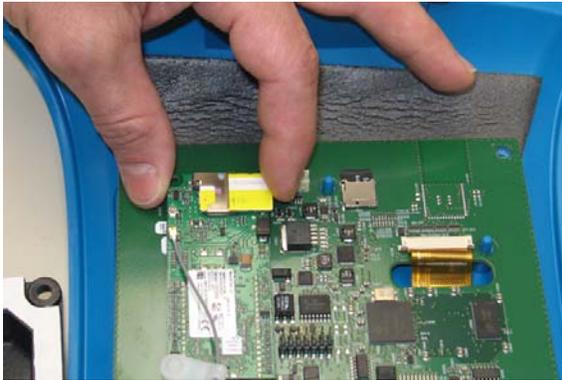


FIG. 14

NOTE: The SIM card **must** be oriented **exactly** as shown in Fig. 15, with the notched corner pointing away from the SIM card holder.



FIG. 15

13. Remove the paper protective backing from the rear cover. (Fig. 16)



FIG. 16

14. Reinstall the rear cover onto the interface panel. Tighten the hardware until the gaskets are fully compressed. **Do Not** over tighten the hardware since doing so could strip the threads in the plastic housing. (Fig. 17)



FIG. 17

15. Install ferrite around power supply cord (thickest cord) within 1 in (25mm) of the power supply. (Fig. 18)

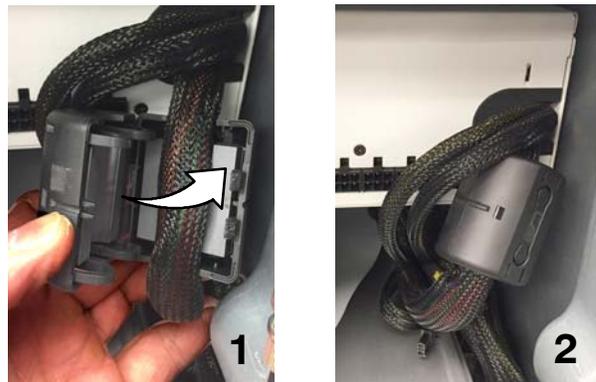


FIG. 18

16. Connect the ribbon cable, pH probe cable, and antenna cable to the interface panel. (Fig. 19)

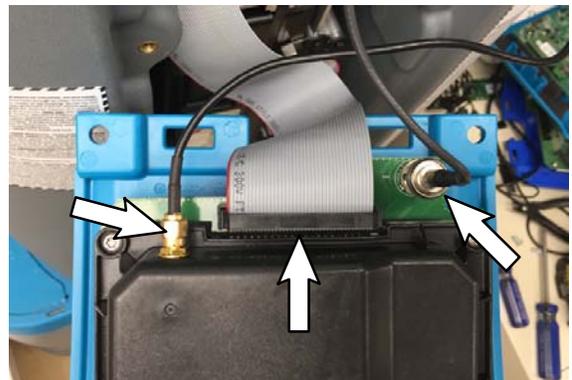


FIG. 19

17. Position the interface panel onto the os3 generator, loosely tighten the hardware securing the bottom of the interface panel to the os3 generator, and loosely tighten the hardware located on top of the os3 generator. (Fig. 20 / Fig. 21 / Fig. 22)



FIG. 20



FIG. 21



FIG. 22

18. Hold the interface panel into place on the os3 generator and first tighten the hardware securing the top of the interface panel into place, and then tighten the hardware securing the bottom of the interface panel into place. (Fig. 20 / Fig. 21 / Fig. 22)

19. Reinstall the and the front access panel onto the os3 generator.

20. Plug the power cable back into the power source and wait for display to appear on the interface panel. (Fig. 23)



FIG. 23

21. Remove the protective wrap from the front of the LCD display.

VERIFICATION:

- 22. Check the OS3 generator RTU values. (Fig. 24)

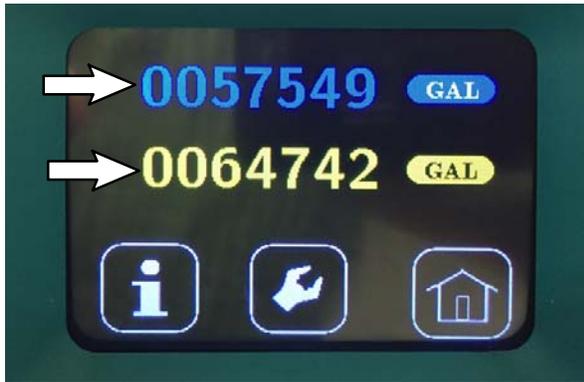


FIG. 24

- 23. If RTU values are not the same as those recorded at beginning of installation, contact Tennant Technical Support in North America: 1- 800- 553- 8033 extension 2668.
- 24. Verify the os3 generator SIM number is displayed on the service screen. If no SIM number appears on the service screen, contact Tennant Technical Support. (Fig. 25)

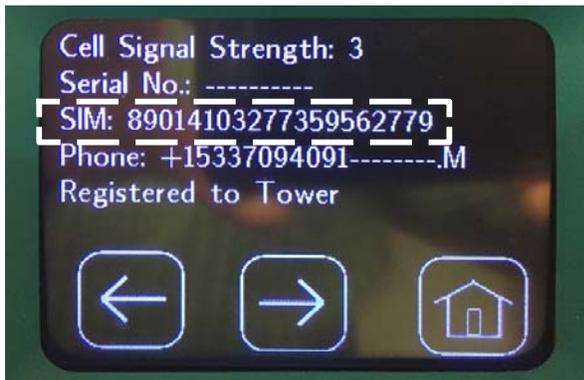


FIG. 25

UPDATE FIRMWARE:

- 25. Go to Tennant web page www.tennantco.com/en_us/solutions/on-site-generation.html. Under the Downloads section download the file: **firmware_update.tar.gz** onto a blank USB flash drive. If the **firmware_update.tar.gz** is unavailable, skip Step 25 through Step 28.

NOTE: Do not use the BLUE Orbio USB flash drive used with the older style display. (Fig. 26)



FIG. 26

- 26. Insert the USB flash drive into the USB port located under the right side of the os3 LCD display. (Fig. 27)



FIG. 27

- 27. Wait for the scrolling green bar to appear on the LCD display. (Fig. 28)



FIG. 28

- 28. Remove the USB flash drive from the USB port. (Fig. 27)

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