



INSTRUCTION BULLETIN

No. DM20075
Machine: os3
Published: 03-2019
Rev. 05

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 numbers AS20035, AS20036 (connection kits), AS20047, AS20048, AS20049, AS20050 (tank kits)**

SYNOPSIS:

This kit contains the parts needed to install the os3 satellite dispenser system and transport containers.

Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: Ambient temperature must be between 50- 110° F (10-43° C) in area where os3 is installed.

(Estimated time to complete: 1.25 hours)

Refer to schematic on the last page of this document (Fig. 54) for system level plumbing reference.



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.

North America: Account number for labor charges related to installing the os3: **63012**.
Authorizing Name: **Orbio**

Europe (CE) Installs: Account number for labor charges related to installing the os3 Cleaning Solution Generator: **609040**. Authorizing Name: **Orbio**

PREPARATION:

1. Consult the Site Survey (Evaluation) document to determine the location for os3 satellite station and any other site specific installation requirements.

NOTE: If volume dispensed for 1 minute at 35 psi is less than 2.5 gallons (9.5 liters), replace the yellow eductor in port 1 with the provided brown eductor. Refer to Site Survey (Evaluation) document for water pressure information.

2. Use stud finder to locate studs behind the wall. Mark stud locations on the wall. (Fig. 1)



FIG. 1

SATELLITE SYSTEM INSTALLATION:

1. Press the dispenser handle retainer tabs and remove the dispenser handle from the dispenser. Set the dispenser handle aside. (Fig. 2)



FIG. 2

2. Press the button on top the dispenser and remove the front cover from the dispenser. Set the front cover aside. (Fig. 3 / Fig. 4)



FIG. 3



FIG. 4

3. Remove the dispenser bracket from the back of the dispenser.

4. Use hardware to install the dispenser bracket onto the wall. (Fig. 5)

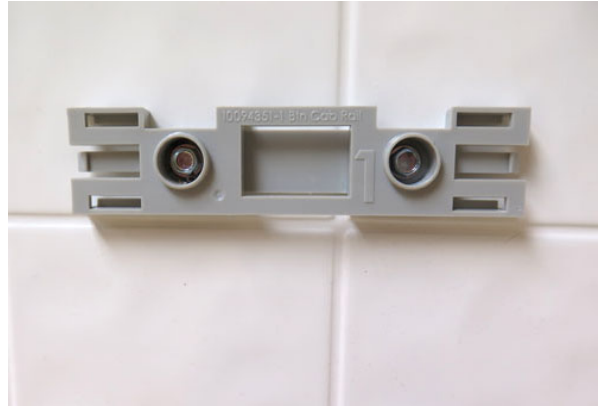


FIG. 5

5. Install the dispenser onto the dispenser bracket. (Fig. 6 / Fig. 7)



FIG. 6



FIG. 7

6. Use a FM20070 screw to install the p-clamp onto the wall. (Fig. 8)



FIG. 8

7. Use the appropriate hardware to install the bottle retainers onto the wall. (Fig. 9)



FIG. 9

8. Connect the hose assembly with the blue marking to the dispenser hose with the blue marking. (Fig. 10)



FIG. 10

9. Connect the hose assembly with the yellow marking to the dispenser hose with the yellow marking (Fig. 11)



FIG. 11

10. Cut two 4 in. (102 mm) sections of clear tubing.

11. Install a check valve onto one end of each 4 in. (102 mm) section of clear tubing cut in the previous step. (Fig. 12)



FIG. 12

12. Insert the check valve end of each vent hose assembly assembled in the previous step into the vent hoses (with black markings) of the blue and yellow hose assemblies already attached to the dispenser unit. (Fig. 13)



FIG. 13

13. Insert the vent hoses (hoses with black markings) from both the hose assembly with the yellow marking and the hose assembly with the blue marking up into the dispenser. (Fig. 14)

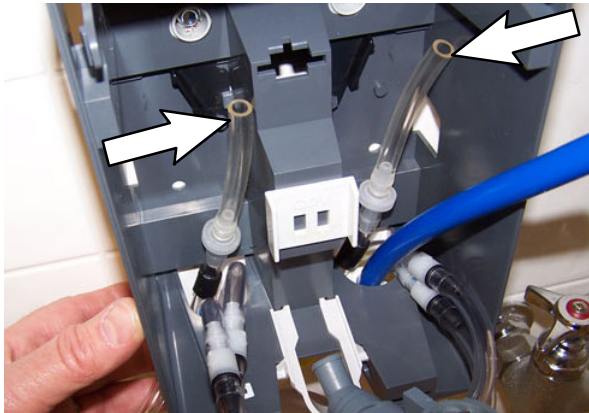


FIG. 14

14. Route the dispenser tubes through the clamp and to the bottle retainers. (Fig. 15)

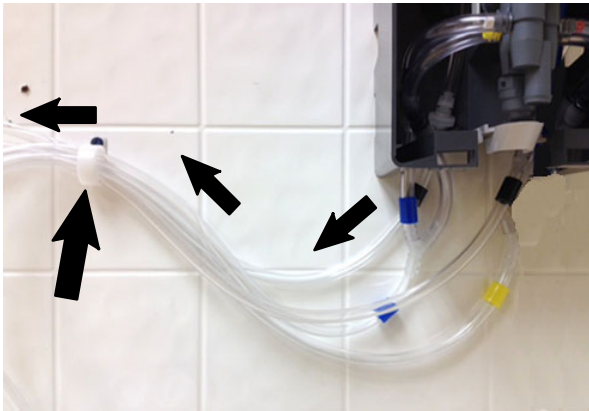


FIG. 15

15. Install the satellite bottles onto the bottle retainers. (Fig. 16)



FIG. 16

16. Connect hoses from the dispenser to the corresponding satellite bottles. Hose assembly with blue fixture to bottle with blue label. Hose assembly with yellow fixture to the bottle with the yellow label. (Fig. 17 / Fig. 18)



FIG. 17



FIG. 18

17. Connect the brass fitting to the cold water supply. (Fig. 19)



FIG. 19

18. Connect the water supply hose to the brass fitting. (Fig. 20)



FIG. 20

19. Remove the blue tube from inside the dispenser and discard it. (Fig. 21)

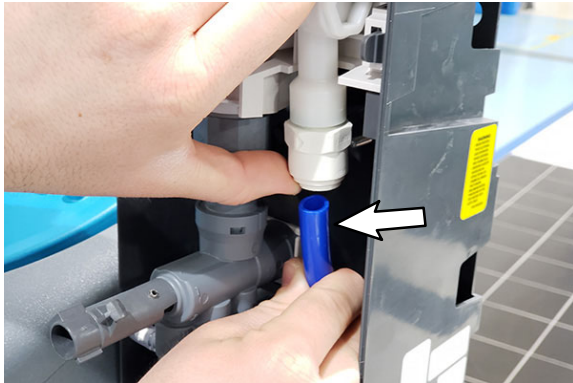


FIG. 21

20. Connect the other end of the water supply line (Fig. 20) to the fitting inside the dispenser assembly. (Fig. 22)

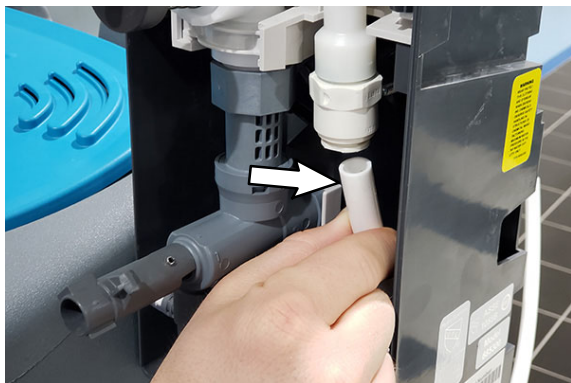


FIG. 22

21. Route the bucket fill hose (longer hose with hanger assembly) through the hose retainer and connect the bucket fill hose to the dispenser. (Fig. 23)

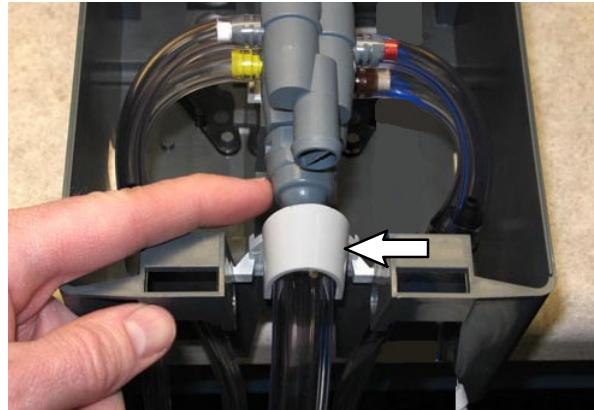


FIG. 23

22. **EU Installations Only:** Trim the end of the bucket fill hose so that when it is hanging down it is more than 25 cm from the floor. (Fig. 23)

23. Connect the bottle fill hose (shorter hose) to the dispenser. (Fig. 24)

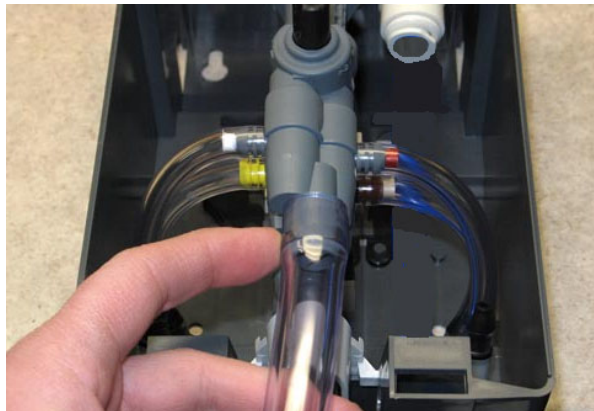


FIG. 24

24. Reinstall the dispenser cover and handle onto the dispenser. (Fig. 25)



FIG. 25

SATELLITE SYSTEM os3 FILL HOSE INSTALLATION:

25. Remove the front access panel from the os3 assembly. Set the front access panel aside. (Fig. 26)



FIG. 26

26. Insert a straight fitting into the hose with the blue marking. (Fig. 27)

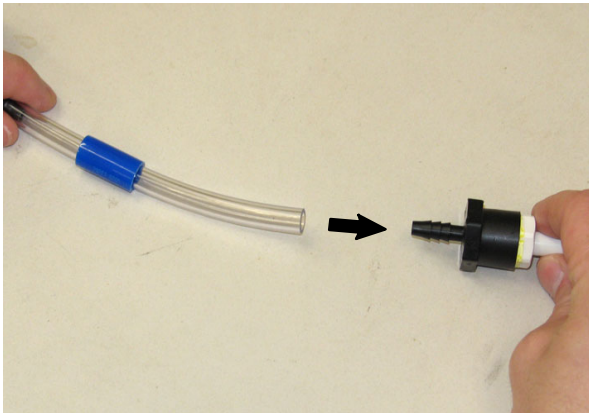


FIG. 27

27. Insert a straight fitting into the hose with the yellow marking. (Fig. 28)

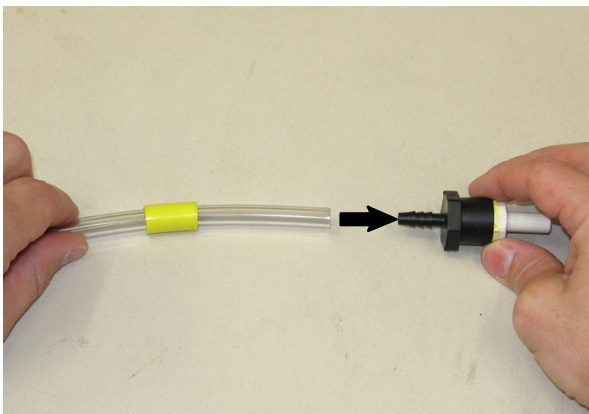


FIG. 28

28. Remove plug from the os3 t- fitting with the yellow marking. (Fig. 29)



FIG. 29

29. Connect fitting end of yellow hose assembly to the t- fitting with the yellow marking. (Fig. 30)

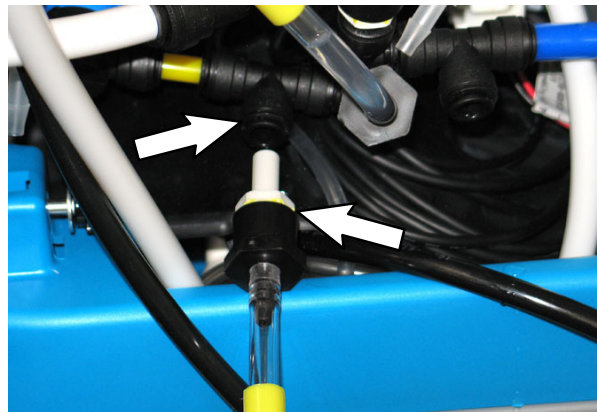


FIG. 30

30. Connect the yellow hose assembly vent hose (black marking) to the os3 yellow vent hose. (Fig. 31)

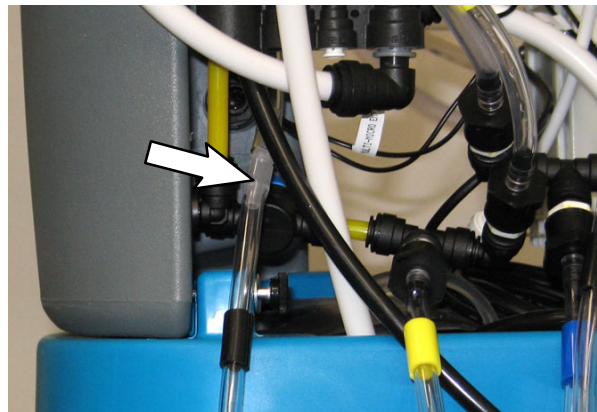


FIG. 31

31. Remove plug from the os3 t-fitting with the blue marking. (Fig. 32)

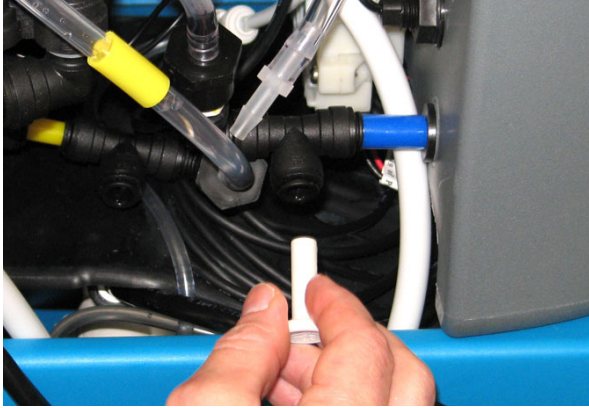


FIG. 32

32. Connect fitting end of blue hose assembly to the t-fitting with the blue marking. (Fig. 33)

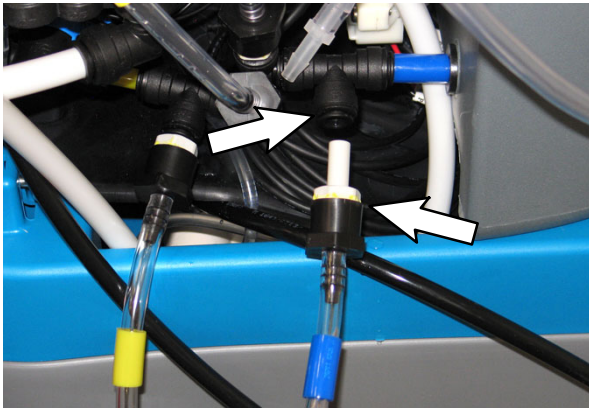


FIG. 33

33. Connect the blue hose assembly vent hose (black marking) to the os3 blue vent hose. (Fig. 34)

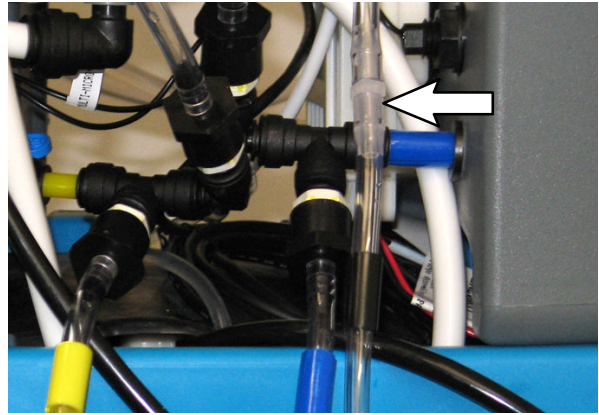


FIG. 34

34. Reinstall the front access panel onto the os3 assembly. (Fig. 35)



FIG. 35

CHANGE DISPENSER EDUCTOR:

NOTE: If volume dispensed for 1 minute at 35 psi is less than 2.5 gallons (9.5 liters), replace the yellow eductor in port 1 with the provided brown eductor. Refer to Site Survey (Evaluation) document for water pressure information.

1. If installed and connected to a water supply, turn off the water supply, and dispense solution from the system to relieve pressure within the system.
2. Disconnect the solution supply hose and both solution lines from the dispenser. (Fig. 36)

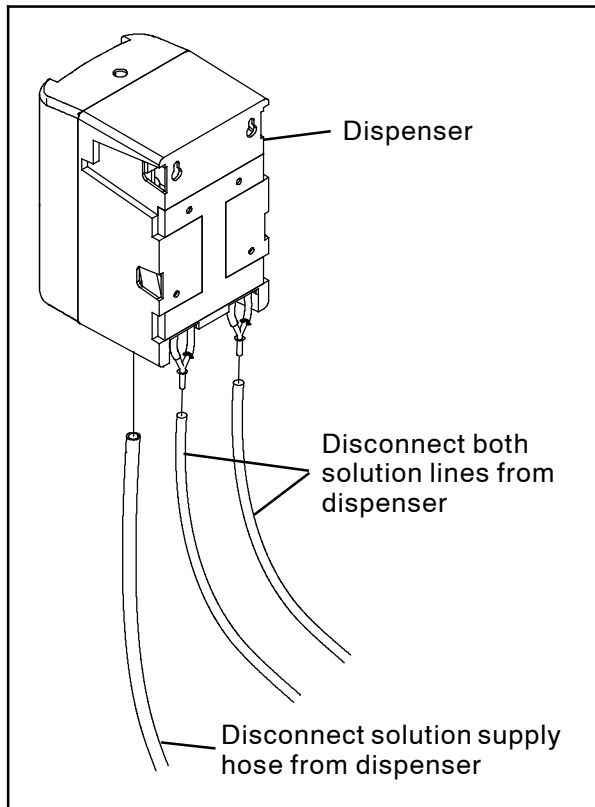


FIG. 36

3. Remove the dispenser from the wall and place the valve assembly onto a clean flat surface (table / workbench).

NOTE: Take care to not lose any parts when further disassembling the valve assembly. All lost parts must be replaced before the dispenser can be reassembled / operated.

4. Press the dispenser handle retainer tabs and remove the dispenser handle from the dispenser. Set the dispenser handle aside. (Fig. 37)



FIG. 37

5. Press the button on top the dispenser and remove the front cover from the dispenser. Set the front cover aside. (Fig. 38 / Fig. 39)



FIG. 38



FIG. 39

6. Disconnect the bottle fill hose and the bucket fill hose from the dispenser. (Fig. 40 / Fig. 41)

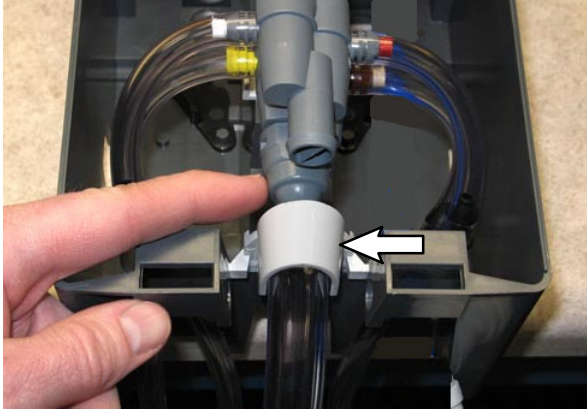


FIG. 40

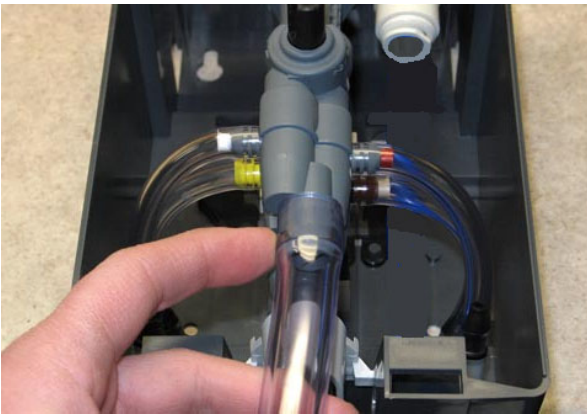


FIG. 41

7. Disconnect the four solution delivery hoses from the barbed fittings (eductors) on the valve assembly. (Fig. 42)

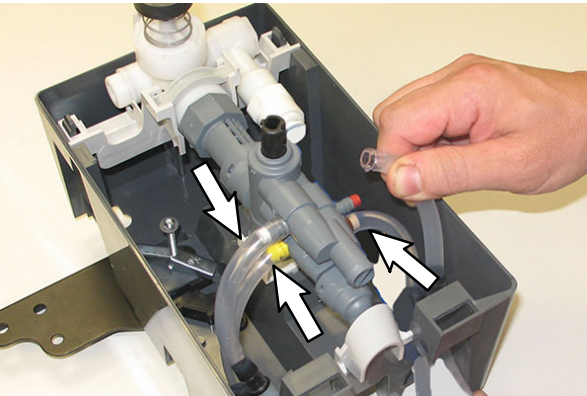


FIG. 42

8. Carefully push the two tabs to the center of the dispenser to unsnap the valve assembly from the dispenser case. Remove the valve assembly from the dispenser case. (Fig. 43 / Fig. 44)

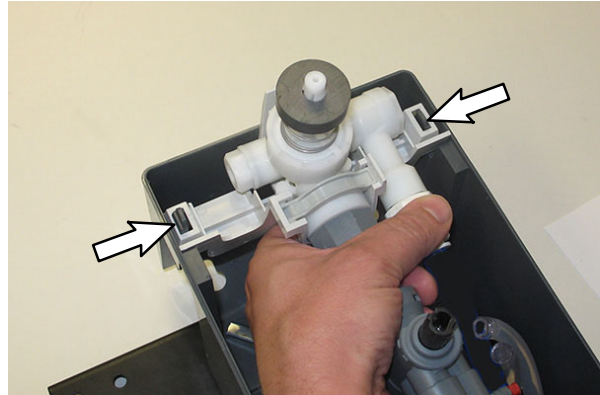


FIG. 43

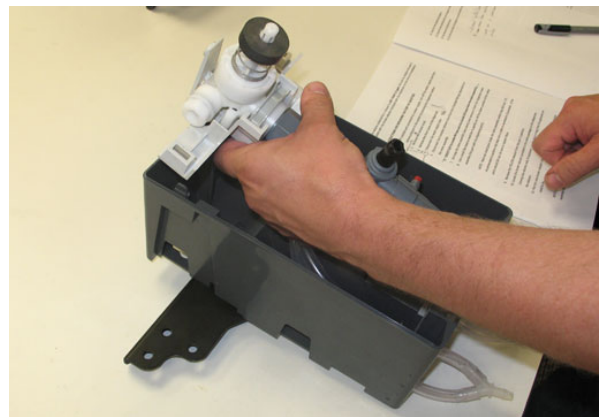


FIG. 44

9. Use a small standard screwdriver to gently pry the lower portion of the valve assembly from the rest of the valve assembly. (Fig. 45 / Fig. 46 / Fig. 47)

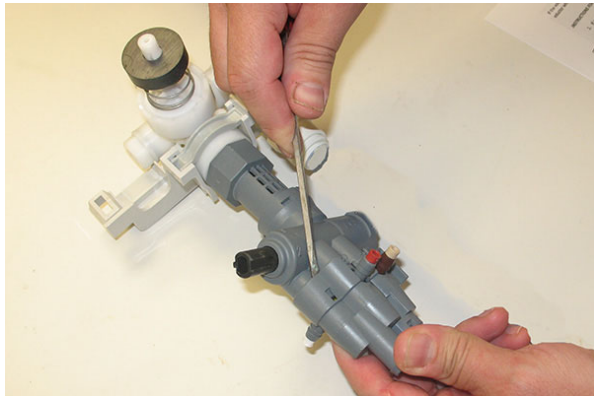


FIG. 45

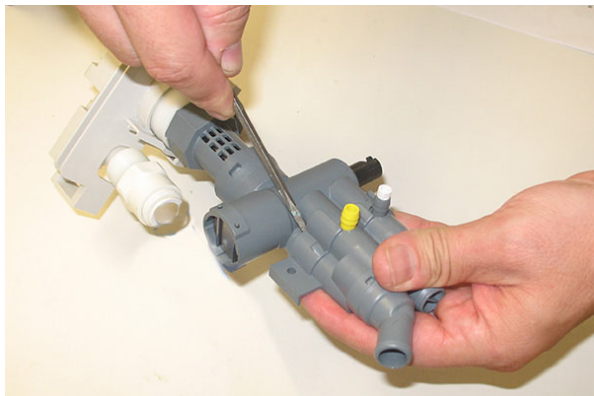


FIG. 46



FIG. 47

10. If necessary, place any spacers that may have fallen from the valve assembly back into the valve assembly. (Fig. 48)

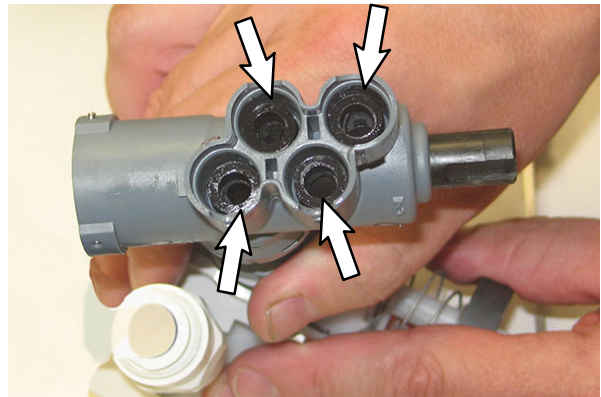


FIG. 48

11. Remove the yellow eductor from port 1 of the valve assembly. (Fig. 49)

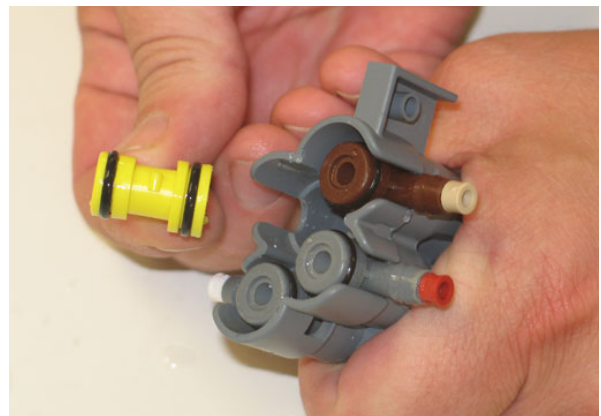


FIG. 49

12. Remove the brown eductor from the packaging.

13. If necessary, install the o-rings into the notches in the eductor. (Fig. 50)



FIG. 50

14. Install the larger diameter end of the brown eductor into port 1 where the yellow eductor was previously located in the valve assembly. (Fig. 51)



FIG. 51

NOTE: The larger diameter end of the brown eductor fits tighter into port 1 than the smaller diameter end. Use the larger diameter end for the tighter fit.

15. Reassemble the lower portion of the valve assembly onto the valve assembly. Note position of angled port in relation to the dispenser handle hub. The valve assembly must be reassembled as shown. (Fig. 52)

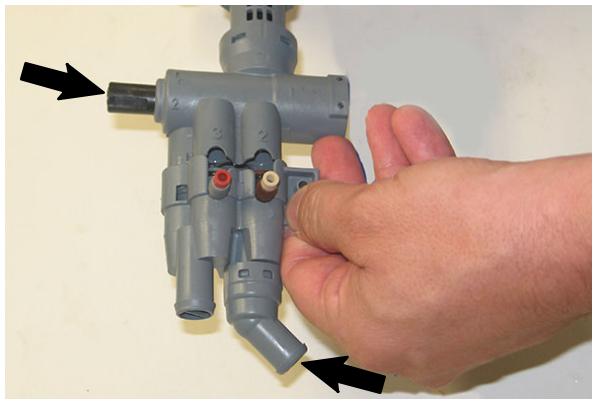


FIG. 52

16. Firmly squeeze the lower portion of the valve assembly onto the valve assembly. (Fig. 53)

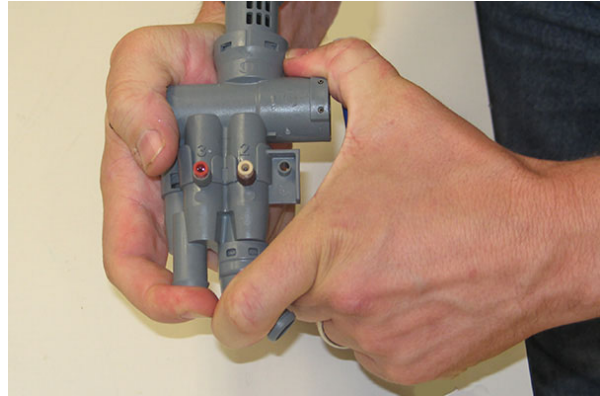


FIG. 53

17. Use hands to attempt to pull the valve assembly apart. It should not be possible to pull the valve assembly apart with hands.
18. Reinstall the valve assembly into the dispenser case. (Fig. 43 / Fig. 44)
19. Reconnect the four solution delivery hoses to the barbed fittings (eductors) on the valve assembly. (Fig. 42)
20. Reconnect the bottle fill hose and bucket fill hose to the dispenser. (Fig. 40 / Fig. 41)
21. Reinstall the cover onto the dispenser. (Fig. 38 / Fig. 39)
22. Reinstall the selector knob onto the dispenser. (Fig. 2)
23. Reinstall the dispenser onto the wall.
24. Reconnect the solution supply hose and both solution lines to the dispenser.
25. Turn on the cold water supply.

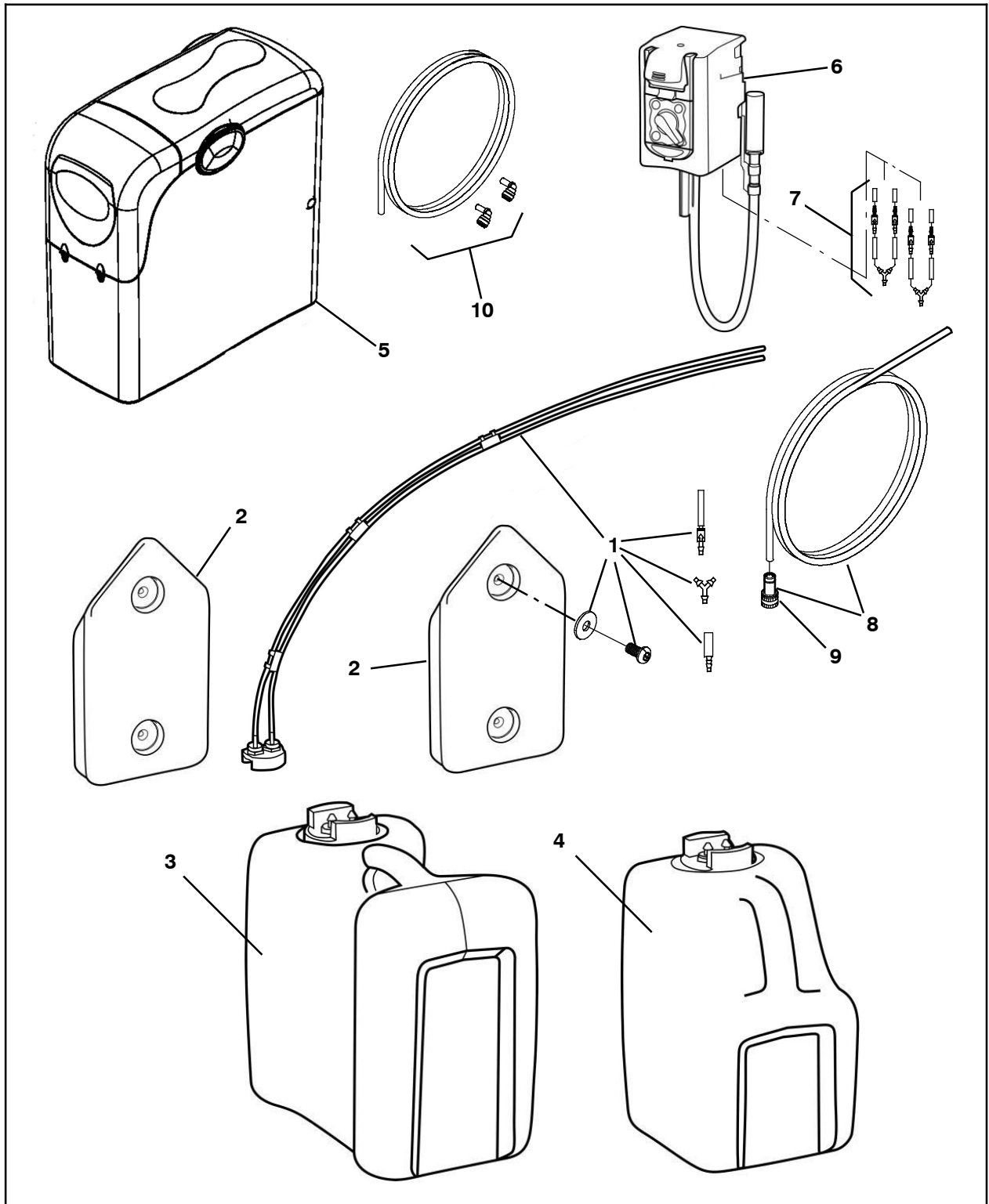


FIG. 54

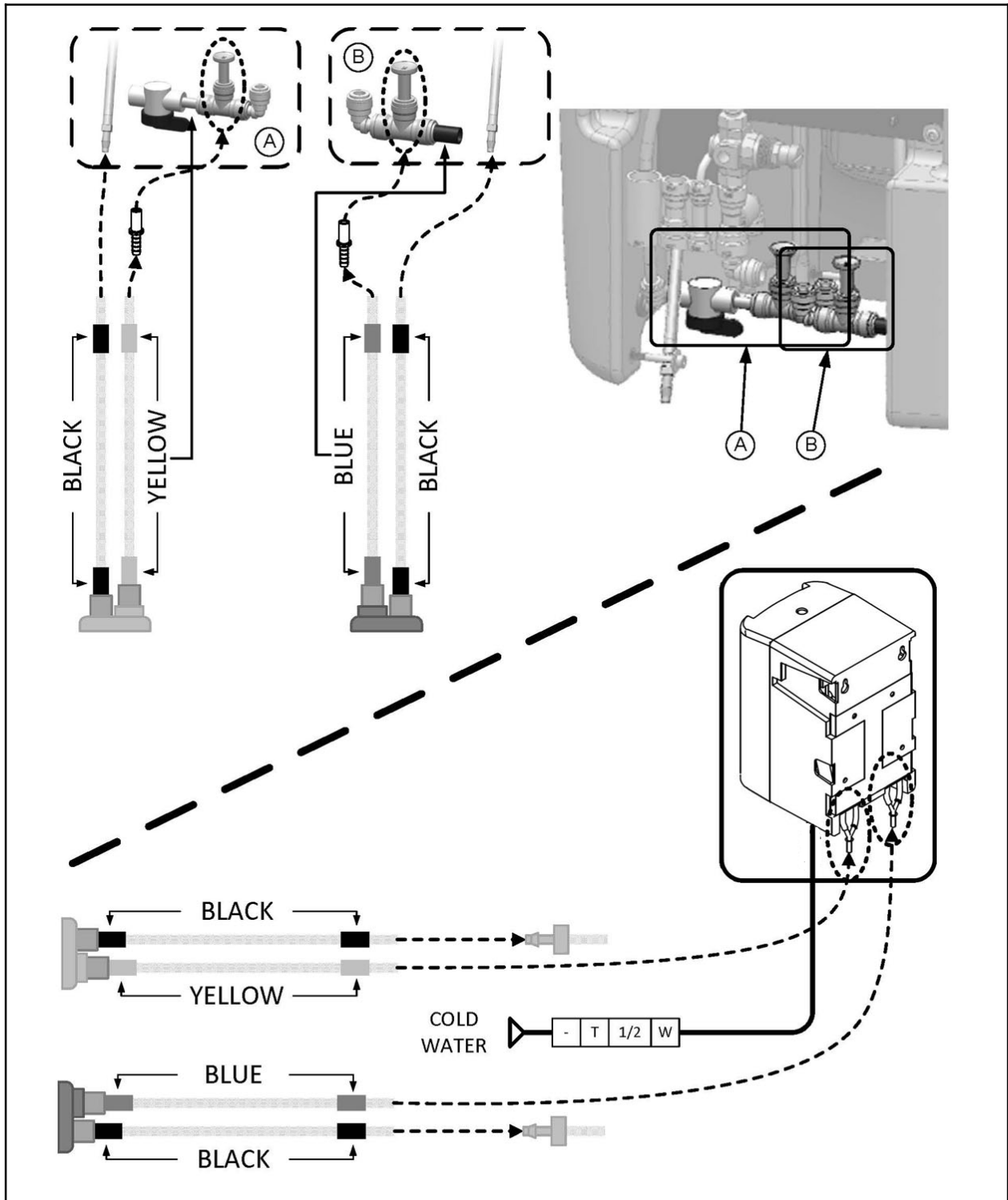


FIG. 55

Ref.	Part No.	Description	Qty.
▽	1 AS20035	Connection Kit, Yellow, MM, os3	1
▲	2 AS20113	Kit, Wall Bracket, os3, Sat (2 Brackets in Kit)	1
▽	1 AS20036	Connection Kit, Blue, MSC, os3	1
▲	2 AS20113	Kit, Wall Bracket, os3, Sat (2 Brackets in Kit)	1
	3 AS20047	Transport Container, Yellow, MM, Lg	1
	3 AS20049	Transport Container, Blue, MSC, Lg	1
	4 AS20048	Transport Container, Yellow, MM, Small	1
	4 AS20050	Transport Container, Blue, MSC, Small	1
	4 AS20097	Transport Container, Yellow, MM, Small w/ Side Label (EU Only)	1
	4 AS20098	Transport Container, Blue, MSC, Small w/ Side Label (EU Only)	1
	5 AS20051	Water Softener, Satellite, os3	1
▽	6 AS20031	Dispenser, os3	1
▲	7 AS20092	Service Kit, Dispenser Check Valve Assy	1
▽	8 AS20096	Assy, Supply Line and Ght Adapter	1
▲	9 PS20025	Adapter, Fgh 10 1/2 Ptc	1
▽	8 AS20099	Assy, Supply Line and Ght Adapter (EU Only)	1
▲	9 PF20123	Adapter, 3/4 Bsp X 1/2 Ptc (EU Only)	1
	10 AS20064	Water Softener Hook- Up Kit, Satellite	1
Tennant			
Ref.	Part No.	Description	Qty.
	1 AT20027	os3, Satellite Station, MSC / MM, Large	1
	2 AT20028	os3, Satellite Station, MSC / MM, Small	1
	3 AT20029	os3, Satellite Station, MSC Only, Large	1
	4 AT20030	os3, Satellite Station, MSC Only, Small	1
	5 AT20031	os3, Satellite Station, MM, Large	1
	6 AT20032	os3, Satellite Station, MM, Small	1

TENNANT COMPANY
P. O. Box 1452
Minneapolis, MN 55440-1452