



# INSTRUCTION BULLETIN

No. 340595  
Machine: 7300, 8300  
Published: 8-03  
Rev. 02

**NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in your machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save you 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 387649**

## DESCRIPTION:

This kit contains the parts needed to replace the liquid level sensor on the model 7300 scrubbers and 8300 sweeper scrubbers.

Please follow step-by-step instructions.

## SPECIAL TOOLS / CONSIDERATIONS: Hand drill, 5/8 dia. drill bit

(Estimated time to complete: 1 hour)

## PREPARATION:

(Refer to FIG. 1 thru 3)

1. Empty the recovery tank.

**FOR SAFETY: Before leaving or servicing machine, stop on level surface and set parking brake. Then turn off machine and remove key.**

2. Disconnect battery cables from machine.



**WARNING: Always disconnect battery cables from machine before working on electrical components.**

## INSTALLATION:

(Refer to FIG. 1 thru 3)

1. Remove the level sensor (long tube level sensor 375427 ). (Refer to FIG. 3)
2. Measure and mark the hole as shown in figure 2 on the inside of the tank. Hole location can be marked from the inside of the tank by measuring off the bump for the insert. (Refer to FIG. 2)
3. Drill the 5/8" diameter hole. Clean off the rough edges of the hole. (Refer to FIG. 2)
4. Remove the orange rubber washer from the level sensor and discard. The washer is not used.
5. Before installing the float switch: Hold the float switch, oriented in mounting position. Draw a line down the top of the threads with a black permanent marker. (Refer to FIG. 1)
6. Remove the red cap from the screen.
7. Push the wires from the level sensor through the large screen opening and then through the small hole. (Refer to FIG. 3)

8. Install the red cap back onto the screen end.
9. Install the connector and lock onto the level sensor wire terminals.
10. Install the new level sensor from the inside of the tank, running the wires through each hole. (Refer to FIG. 3)
11. Install the nut onto the level sensor. Do not tighten at this point. (Refer to FIG. 3)
12. Position the sensor so that the float is in the correct position. The float is correctly positioned when the narrow end of the float mechanism is pointed up, and the black mark drawn on the threads earlier, is on the top in the 12:00 position. (Refer to FIG. 1)
13. Tighten the nuts securely.
14. Draw a small black line on the outside of each level sensor mounting hole, in the 12:00 position. Check regularly that the black marks on the switch and the machine are aligned. If the switch rotates, or is twisted when the red filter is being serviced, the float may not work properly.
15. Install plug 49745 into hole that the old level sensor tube 375427 and plug came out of on top of the tank.
16. Install rubber plug into hole that the tube came out of.
17. Connect the level sensor to the main harness connector mark "FULL".
18. Fill the recovery tank with enough water to cover the lower sensor. Check that there are no leaks around the level sensor.
19. Reconnect the battery cables to the machine.
20. With the scrubbing system ON, fill the recovery tank with enough water to cover the upper level sensor.
21. Check that the vacuum fan shuts off and the squeegee raises.

*NOTE: The time delay is approximately one minute.*

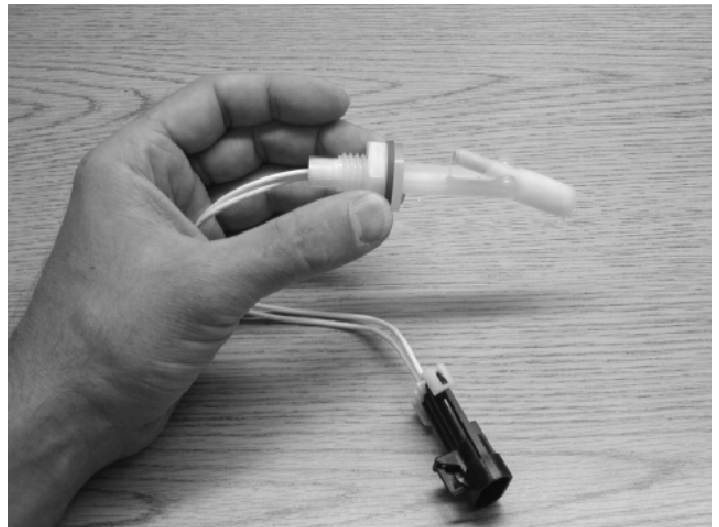
*NOTE: Use care when cleaning the screens covering the new liquid level sensors. Clean the screens with a low pressure water hose, and remove the screens only when necessary. Be careful not to rotate the liquid level sensors when removing or replacing the screens. If the liquid level sensors are moved when replacing the screens, realign the black marks made with the permanent marker to make sure the switches are upright in the correct operating position.*

## BILL OF MATERIALS FOR LIQUID LEVEL SENSOR KIT 387649

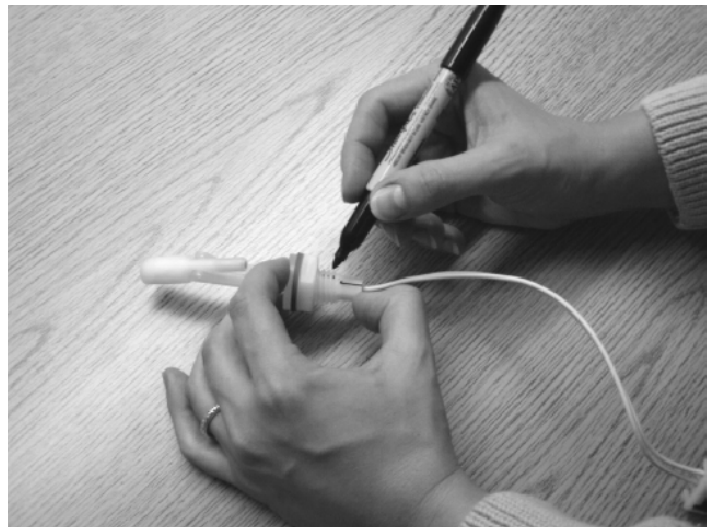
Ref.	TENNANT Part No.	Description	Qty.
1	375302	Strainer, solution, switch guard	1
2	385685	Sensor, level, liquid [magnetic]	1
3	223528	Grommet, level sensing, 1.6D 9.6L F/1.4H	1
4	49745	Fitting, plstc, plug, PM16	1

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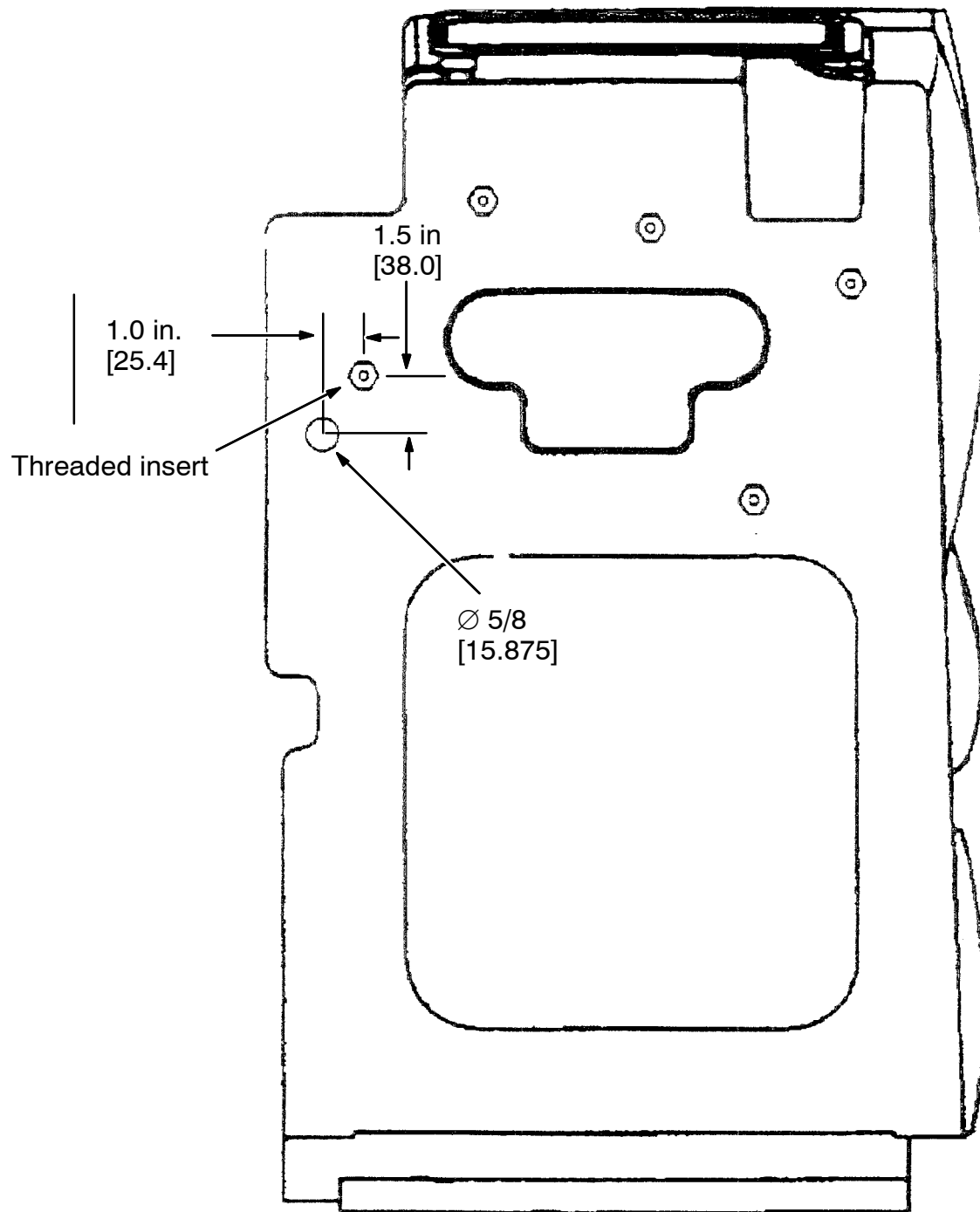
Oreient the float switch so the narrow end of the float mechanism is pointed up



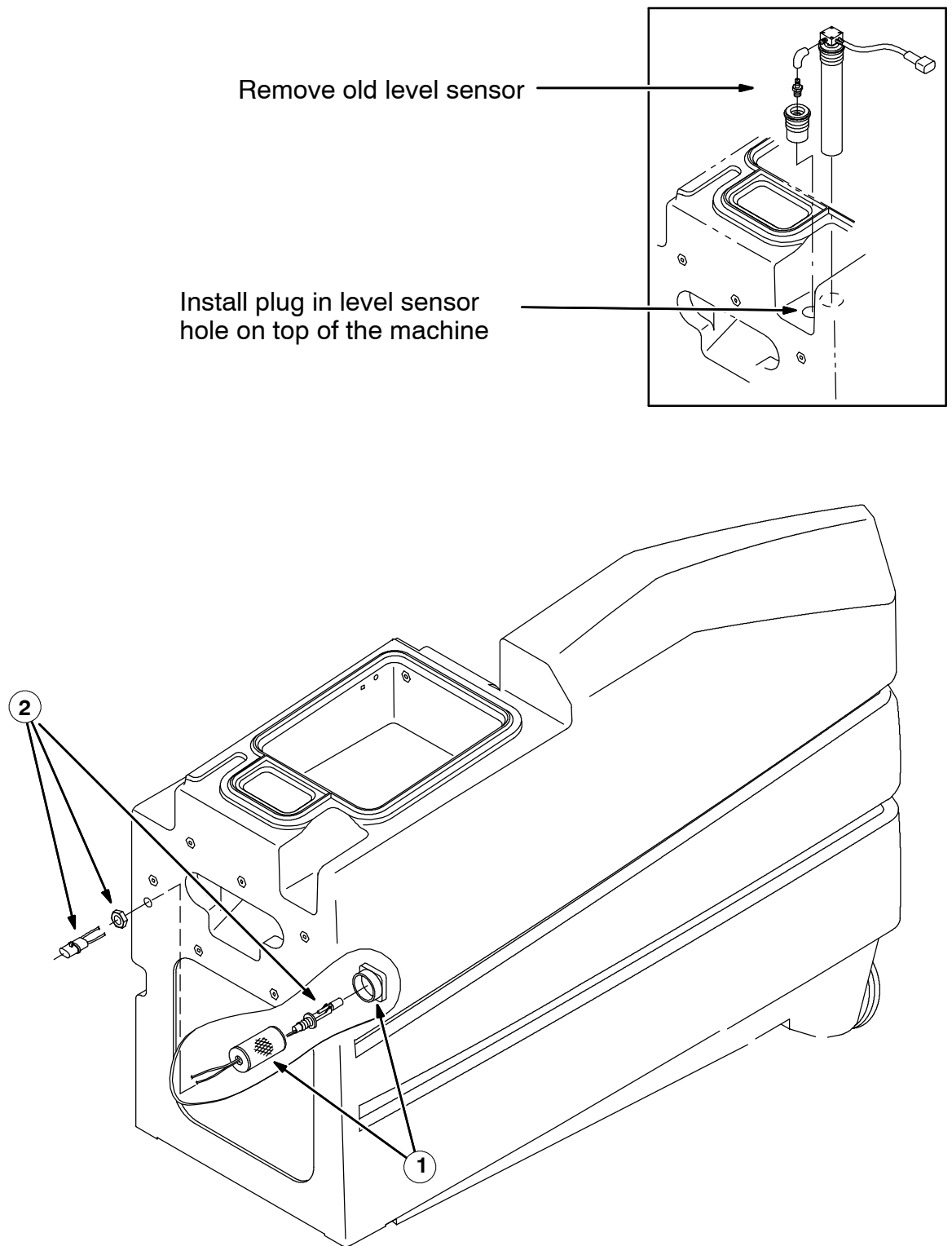
Mark the top edge of the threaded end of the float switch with a permanent marker for orientation with the machine. The top edge should remain in the 12:00 position, to keep the float in proper working position.



**FIG. 1 - Correct Float Switch Orientation**



**FIG. 2 - Tank Rework / Hole Location**



**FIG. 3 - New Level Sensor Installation**