



# INSTRUCTION BULLETIN

No. 340307  
Machine: 8200/8210  
Published: 7-99/00  
System: SCRUBBING

**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 393321

## **SYNOPSIS / PROBLEM:**

This kit contains the parts needed to replace the level switch kit on the model 8200/8210 sweeper/scrubber.

Please follow step-by-step instructions.

## **SPECIAL TOOLS / CONSIDERATIONS: Metri-Pac wire test harness, voltmeter**

(Estimated time to complete: 1 hour)

## **PREPARATION:**

(Refer to FIG. 1 thru 7)

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

1. Disconnect battery cables from machine.



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

## **INSTALLATION:**

(Refer to FIG. 1 thru 7)

## **RECOVERY TANK PRESSURE SWITCH REPLACEMENT ONLY:**

1. Open the engine cover and the engine side door.
2. Remove and set aside the engine cover support bracket to access the float switch and plug on the recovery tank. (Refer to FIG. 1 and 2)
3. Locate, disconnect, and remove the float switch and plug from the recovery tank. (Refer to FIG. 1 and 3)

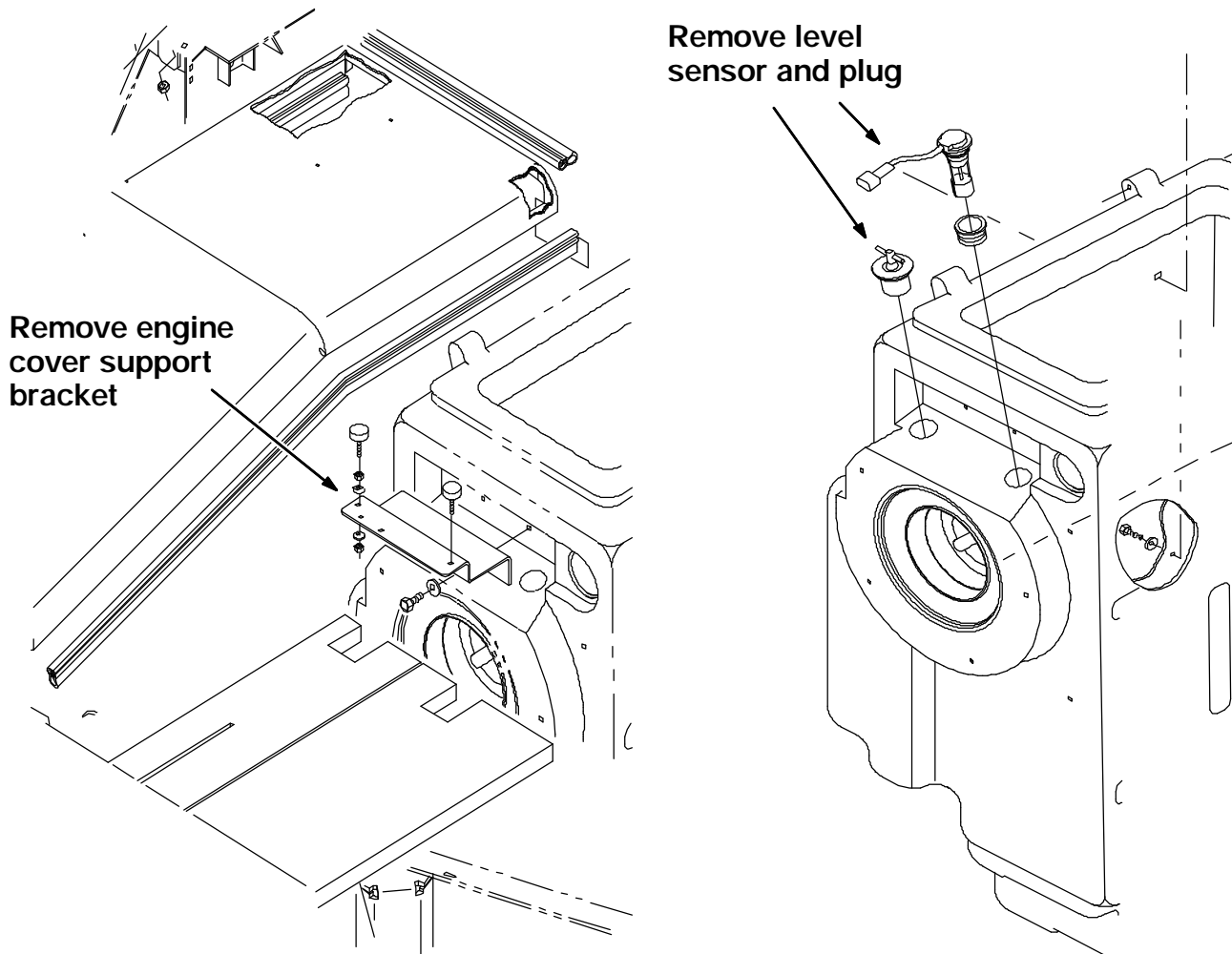
*NOTE: Lubricate tube/switch assemblies and hoses with a small amount of liquid soap for easier installation.*

4. Install the short (2 in) tube/fitting assembly into the right side recovery tank switch opening. (Refer to FIG. 4)
5. Install the long (8 in) tube/switch assembly in the left side recovery tank switch opening. (Refer to FIG. 5)
6. Run .25 in OD X 0.16 in ID X 8 in long rubber vacuum hose between the pressure switch and the fitting on the short tube assembly. (Refer to FIG. 6)

7. Locate the blue and black wire harness, and plug it into the pressure switch harness.  
(Refer to FIG. 7)
8. Secure the wire harnesses and existing diode with a nylon tie wrap.
9. Replace the engine cover support bracket. Close the engine cover and side doors.

**NOTE: TO CONFIRM PROPER PRESSURE SWITCH OPERATION, PERFORM THE FOLLOWING**

1. Remove the switch and mark the 4" water level from the bottom of the tube.
2. Connect the switch to an ohmmeter with the metri-pac test wire harness (375023). The ohmmeter should read O.L. before switch is activated.
3. Slowly lower the switch into a 5 gallon bucket of water filled with roughly six inches of water. The switch should read below 1 ohm when activated at the 4 inch level of the tube. If a leak is present, or if the switch is malfunctioning, the ohm reading will show O.L. (open loop).



**FIG. 1 OLD LEVEL SENSOR AND PLUG REMOVAL**



FIG. 2

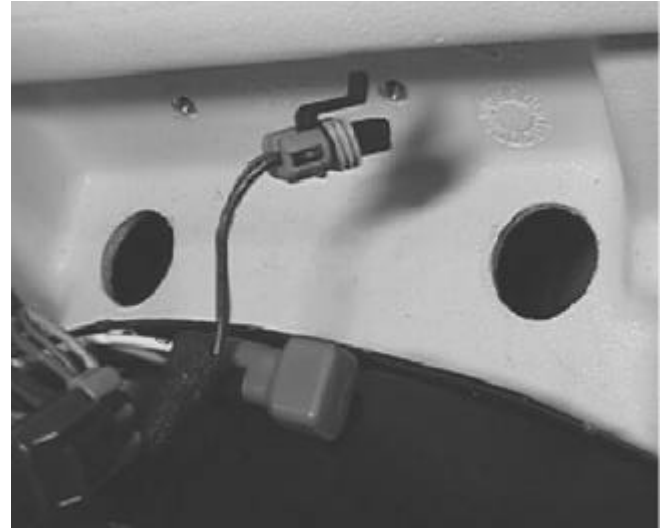


FIG. 3



FIG. 4



FIG. 5



FIG. 6



FIG. 7

# RECOVERY TANK SWITCH INSTALLATION

**BILL OF MATERIALS FOR ES LEVEL PRESSURE SWITCH KIT 393320**

<b>Ref.</b>	<b>TENNANT Part No.</b>	<b>Description</b>	<b>Qty.</b>
1	385744	Tube, assy, 8"	1
2	385750	Tube, assy, 2"	1
3	385732	Switch assy, pressure, 4"	1
4	40607	Fitting, brass, str	1
5	57578	Hose, vacuum	1

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