



INSTRUCTION BULLETIN

No. 340760

Machine: 5680/5700, 8200/
8210, 7100, EZ Rider HP

Published: 12-2004

Rev. 00

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 9001066**

SYNOPSIS / PROBLEM:

This kit contains the parts needed to install/replace the float switch protector bracket on 5680/5700, 8200/8210, 7100, and EZ Rider HP model machines.
Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: NONE

(Estimated time to complete: 1 hour)

PREPARATION: 5680/5700

1. Park the machine on a clean level surface.
2. Turn off the machine, remove the key, and set the parking brake.

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

3. Disconnect the battery cables from the machine.



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

4. Lift the recovery tank and lock it in the up position.
5. If machine is equipped with FaST system, remove the FaST Pak from the FaST Pak holder. Refer to Operators Manual for instructions how to remove the FaST Pak.
6. Disconnect the float switch wires from the wire harness. Refer to Fig. 1.

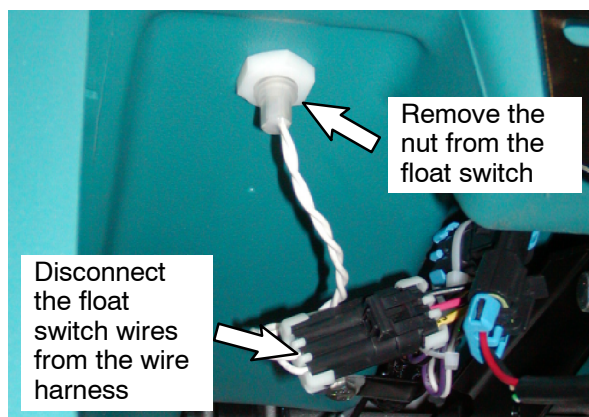


FIG. 1

7. Remove the nut from the float switch and pull the float switch out from the recovery tank. **Do not** discard the nut since it is needed to reinstall the float switch. Refer to Fig. 1 and Fig 2.

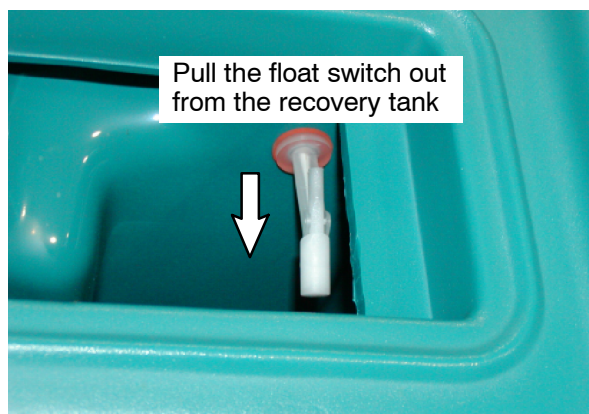


FIG. 2

INSTALLATION: 5680/5700

1. Orient the float switch so the narrow end of the float mechanism is pointed up. Refer to Fig. 3.

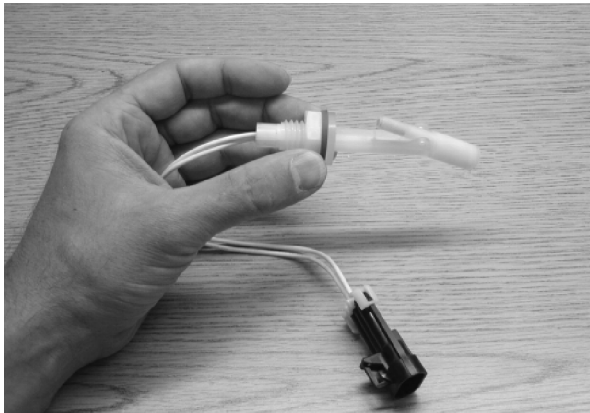


FIG. 3

2. Mark the top edge of the threaded end of the float switch with a permanent marker. The top edge must be positioned at 12:00 for the float to function. Refer to Fig. 4.

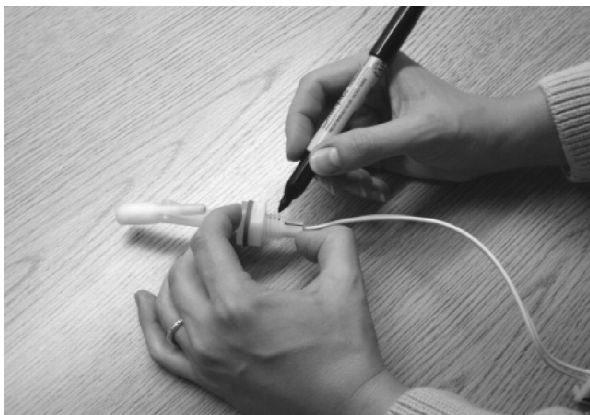


FIG. 4

3. Route the float switch wires through the hole in the float switch protector bracket (1) and orient the mark to 12:00 inside the float switch protector bracket. Refer to Fig. 5.

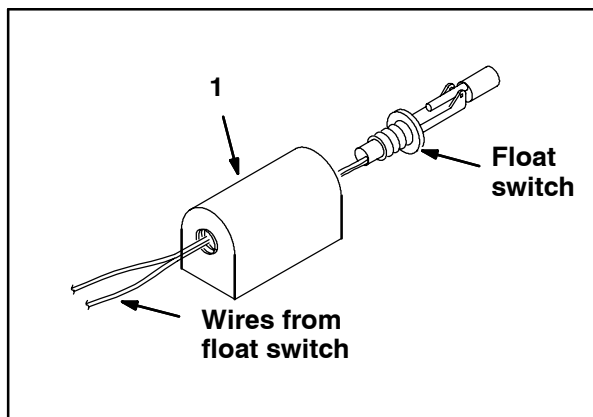


FIG. 5

4. Position the float switch and float switch protector bracket (1) inside the recovery tank and pull the wires from the float switch out through the same hole in the recovery tank where the float switch had previously been installed. Be sure the mark on the float switch remains at 12:00. Refer to Fig. 6.

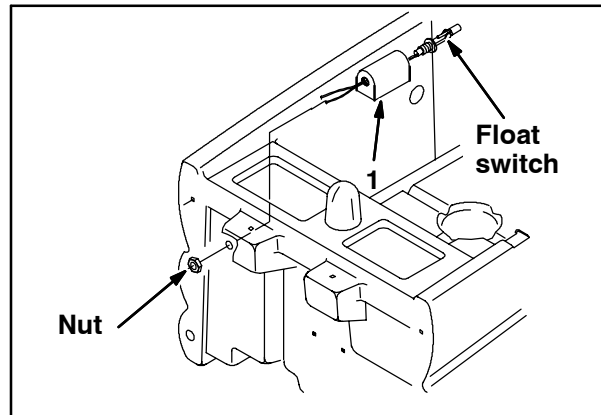


FIG. 6

5. Tighten the nut back onto the float switch. Be sure the mark on the float switch remains at 12:00. Refer to Fig. 7.

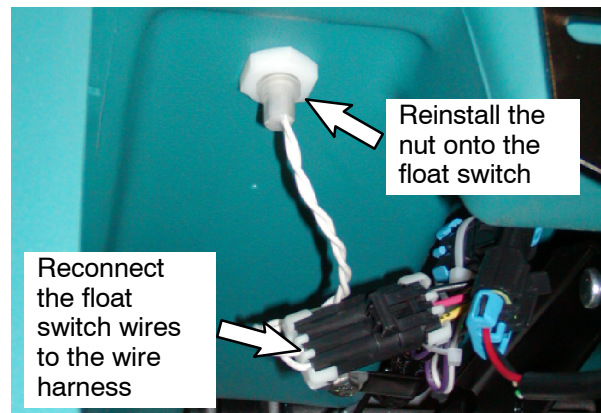


FIG. 7

6. Reconnect the float switch wires to the wire harness. Refer to Fig. 7.
7. If machine is equipped with FaST system, reinstall the FaST Pak into the FaST Pak holder. Refer to Operators Manual for instructions how to install the FaST Pak.
8. Reconnect the battery cables.
9. Test machine to ensure it is operating correctly.

PREPARATION: 7100

1. Park the machine on a clean level surface.
2. Turn off the machine, remove the key, and set the parking brake.

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

3. Disconnect the battery cables from the machine.

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

4. Open the recovery tank lid.
5. Lift the seat assembly and lock it into the up position.
6. Disconnect the float switch wires from the wire harness. Refer to Fig. 1.

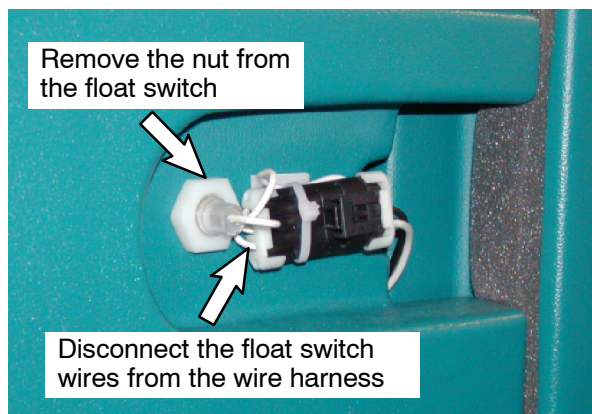


FIG. 1

7. Remove the nut from the float switch and pull the float switch and guard (if equipped with a guard) out from the recovery tank. **Do not** discard the nut since it is needed to reinstall the float switch. Discard the guard. Refer to Fig. 1 and Fig. 2.

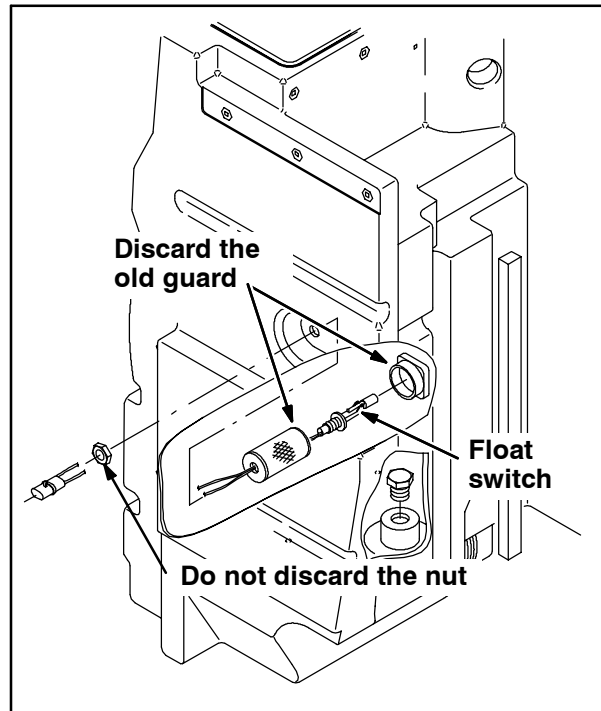


FIG. 2

INSTALLATION: 7100

1. Orient the float switch so the narrow end of the float mechanism is pointed up. Refer to Fig. 3.

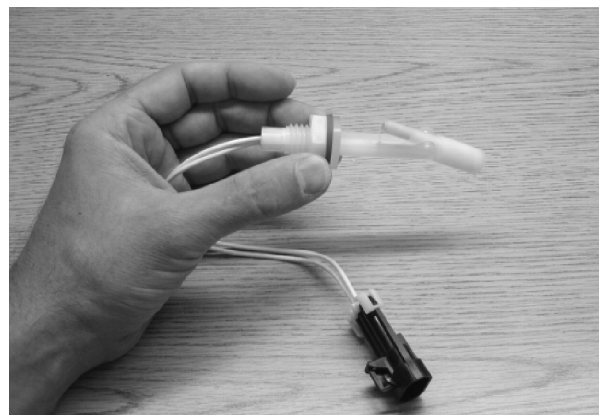


FIG. 3

2. Mark the top edge of the threaded end of the float switch with a permanent marker. The top edge must be positioned at 12:00 for the float to function. Refer to Fig. 4.

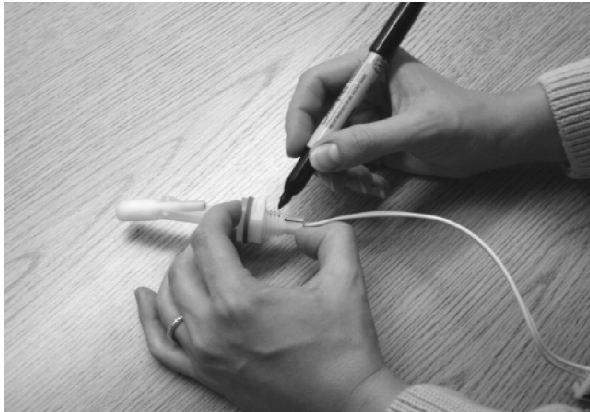


FIG. 4

3. Route the float switch wires through the hole in the float switch protector bracket (1) and orient the mark to 12:00 inside the float switch protector bracket. Refer to Fig. 5.

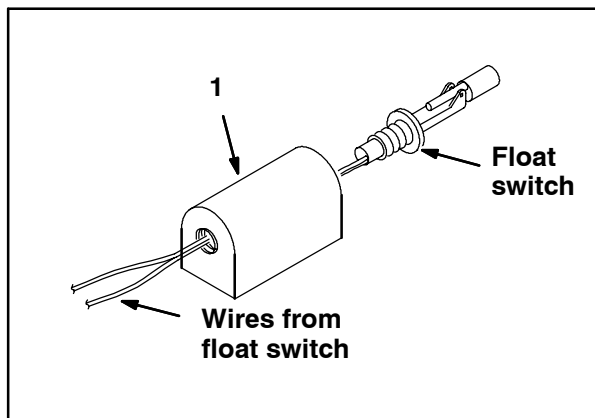


FIG. 5

4. Position the float switch and float switch protector bracket (1) inside the recovery tank and pull the wires from the float switch out through the same hole in the recovery tank where the float switch had previously been installed. Be sure the mark on the float switch remains at 12:00. Refer to Fig. 6.

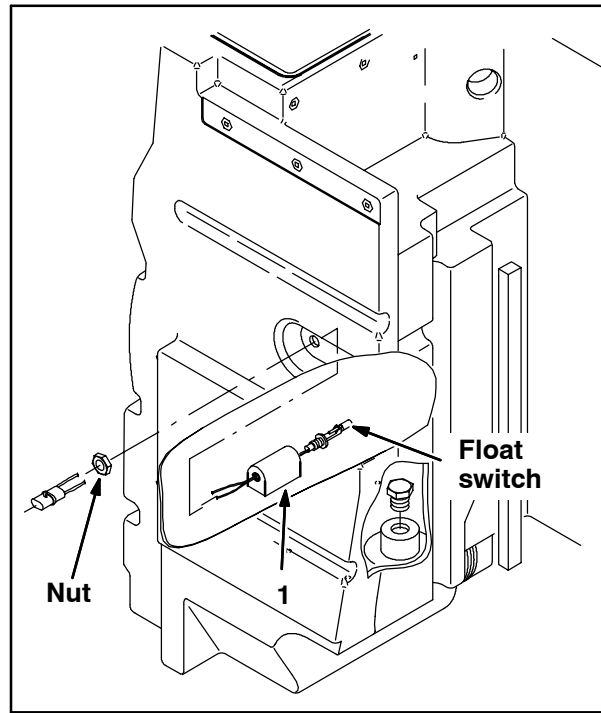


FIG. 6

5. Tighten the nut back onto the float switch. Be sure the mark on the float switch remains at 12:00. Refer to Fig. 7.

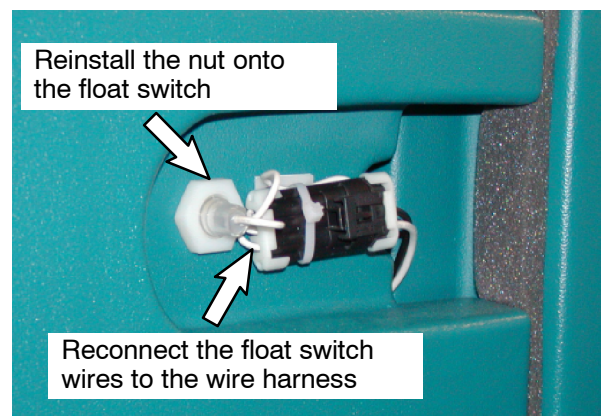


FIG. 7

6. Reconnect the float switch wires to the wire harness. Refer to Fig. 7.
7. Reconnect the battery cables.
8. Test machine to ensure it is operating correctly.

PREPARATION: 8200/8210

1. Park the machine on a clean level surface.
2. Turn off the machine, remove the key, and set the parking brake.

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

3. Disconnect the battery cables from the machine.

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

4. Lift the recovery tank lid.
5. Open the engine top cover and lock it in the up position.
6. Open the engine side door.
7. Remove the bolt and washer holding the liquid level switch alignment plate onto the machine. **Do not** discard any items removed in this step. Refer to Fig. 1.

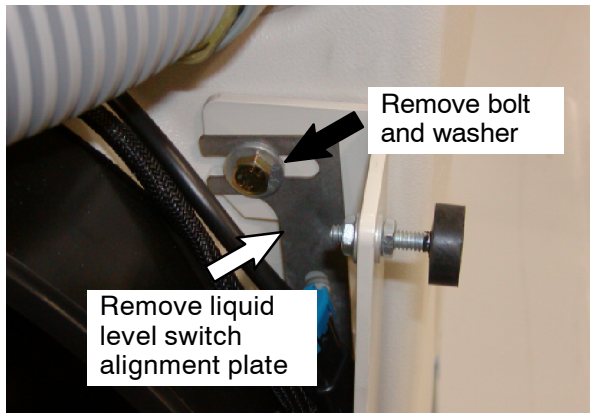


FIG. 1

8. Remove the liquid level switch alignment plate from the float switch. **Do not** discard the liquid level switch alignment plate. Refer to Fig. 1.
9. Disconnect the float switch wires from the wire harness.

10. Remove the nut from the float switch and pull the float switch and guard out from the recovery tank. **Do not** discard the nut since it is needed to reinstall the float switch. Discard the guard. Refer to Fig. 2.

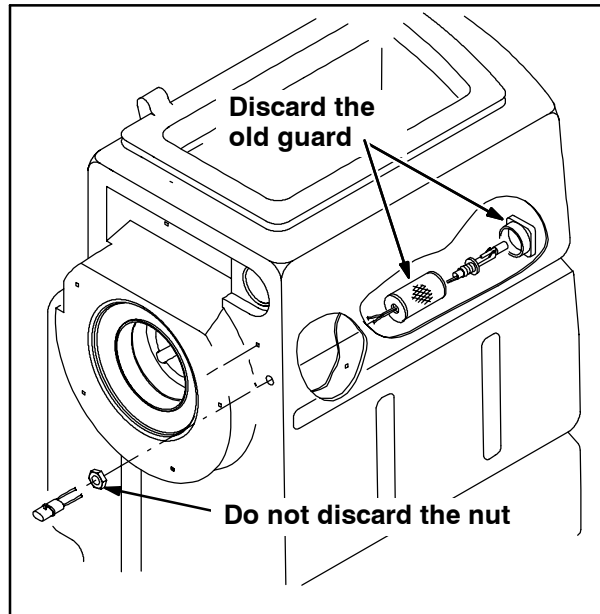


FIG. 2

INSTALLATION: 8200/8210

1. Orient the float switch so the narrow end of the float mechanism is pointed up. Refer to Fig. 3.

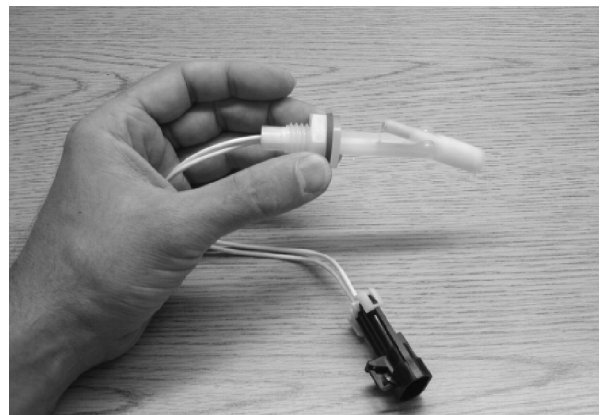


FIG. 3

2. Mark the top edge of the threaded end of the float switch with a permanent marker. The top edge must be positioned at 12:00 for the float to function. Refer to Fig. 4.

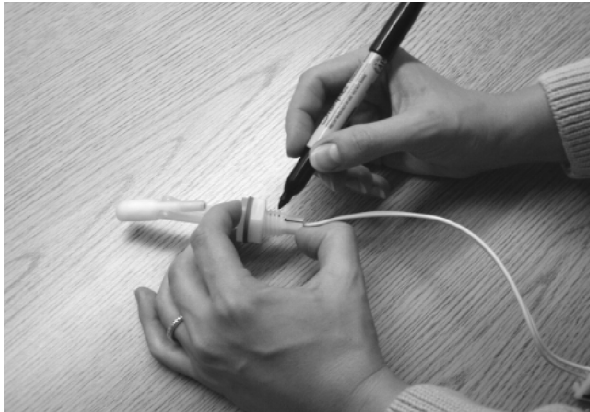


FIG. 4

3. Route the float switch wires through the hole in the float switch protector bracket (1) and orient the mark to 12:00 inside the float switch protector bracket. Refer to Fig. 5.

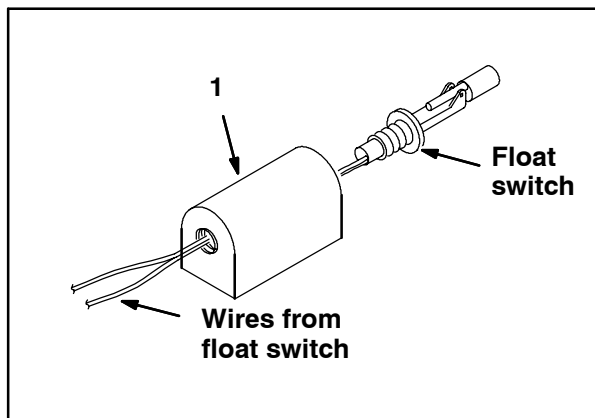


FIG. 5

4. Position the float switch and float switch protector bracket (1) inside the recovery tank and pull the wires from the float switch out through the same hole in the recovery tank where the float switch had previously been installed. Be sure the mark on the float switch remains at 12:00. Refer to Fig. 6.

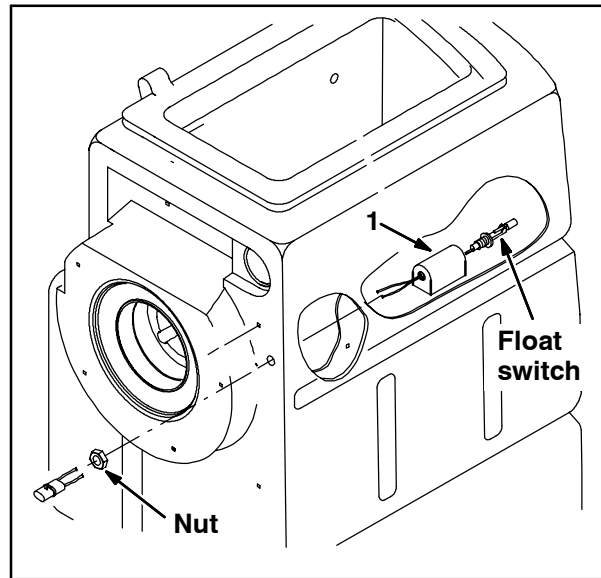


FIG. 6

5. Tighten the nut back onto the float switch. Be sure the mark on the float switch remains at 12:00. Refer to Fig. 6.
6. Reconnect the float switch wires to the wire harness.
7. Place the liquid level switch alignment plate onto the float switch and use the bolt and washer to secure the liquid level switch alignment plate to the machine. Refer to Fig. 7.

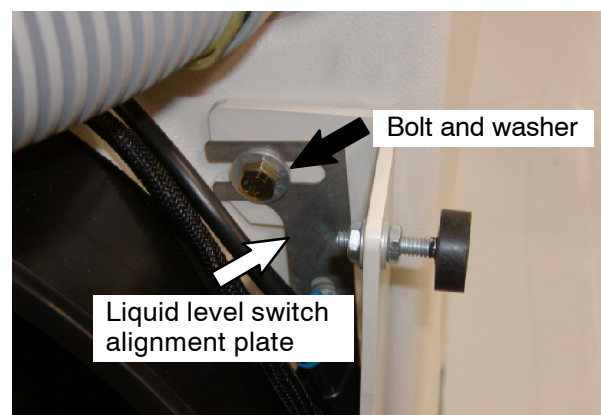


FIG. 7

8. Reconnect the battery cables.
9. Test machine to ensure it is operating correctly.

PREPARATION: EZ Rider HP

1. Park the machine on a clean level surface.
2. Turn off the machine, remove the key, and set the parking brake.

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

3. Disconnect the battery cables from the machine.

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

4. Lift the recovery tank lid.
5. Lift the seat assembly and lock it in the up position.
6. Disconnect the float switch wires from the wire harness. Refer to Fig. 1.

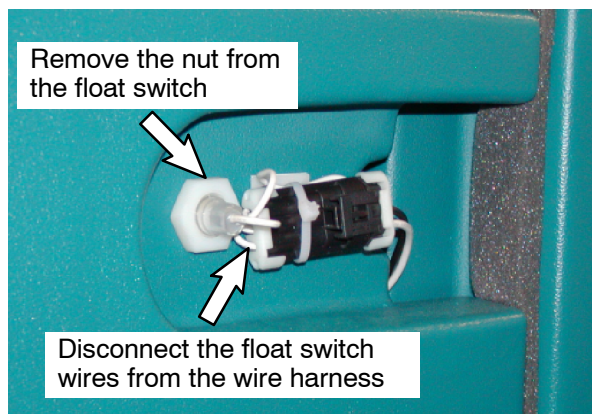


FIG. 1

7. Remove the nut from the float switch and pull the float switch and guard (if equipped with a guard) out from the recovery tank. **Do not** discard the nut since it is needed to reinstall the float switch. Discard the guard. Refer to Fig. 1 and Fig. 2.

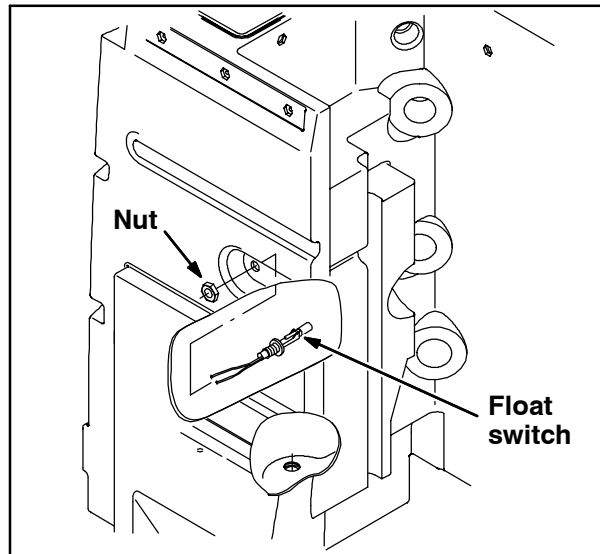


FIG. 2

INSTALLATION: EZ Rider HP

1. Orient the float switch so the narrow end of the float mechanism is pointed up. Refer to Fig. 2.

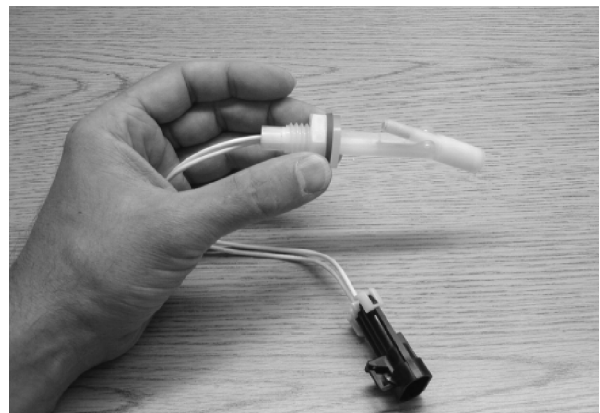


FIG. 3

2. Mark the top edge of the threaded end of the float switch with a permanent marker. The top edge must be positioned at 12:00 for the float to function. Refer to Fig. 4.



FIG. 4

3. Route the float switch wires through the hole in the float switch protector bracket (1). Refer to Fig. 5.

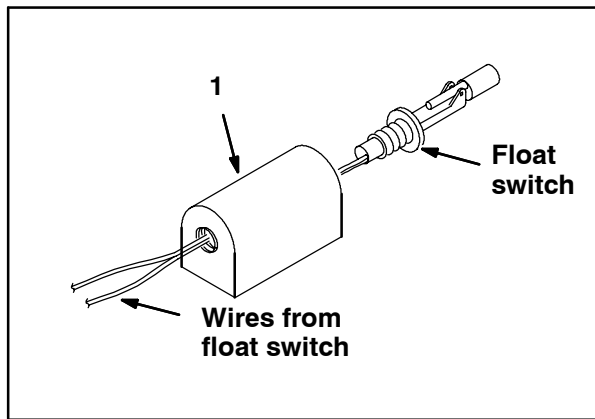


FIG. 5

4. Position the float switch and float switch protector bracket (1) inside the recovery tank and pull the wires from the float switch out through the same hole in the recovery tank where the float switch had previously been installed. Be sure the mark on the float switch remains at 12:00. Refer to Fig. 6.

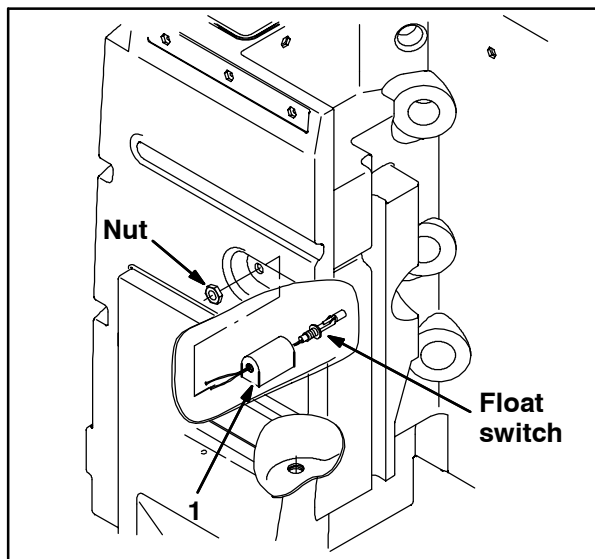


FIG. 6

5. Tighten the nut back onto the float switch. Be sure the mark on the float switch remains at 12:00. Refer to Fig. 7.

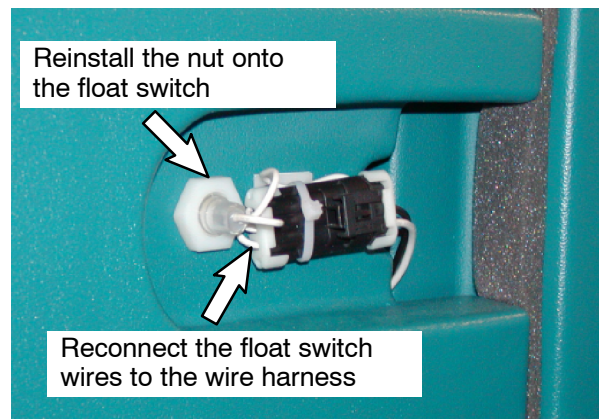


FIG. 7

6. Reconnect the float switch wires to the wire harness. Refer to Fig. 7.
7. Reconnect the battery cables.
8. Test machine to ensure it is operating correctly.

Bill of Materials for Bracket Kit, Protector, Float Switch-9001066

Ref.	Tennant Part No.	Description	Qty.
▽	9001066	Bracket Kit, Protector, Float Switch	1
▲ 1	1019285	Bracket, Protector, Float Switch	1

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