

Technical Service Bulletin

MODEL(S) AFFECTED: i-mop XL model part number 1231845 (s/n 311348→311924) pre-date Plus models affected.
i-mop XL PLUS model part number 1251236 (s/n P300004→P300771)
i-mop XXL PLUS model part number 1251235 (s/n P600001→P600162)

SUBJECT: With the introduction of the new park position switch (i.e. electronic auto shut-off switch), a new PCB board was introduced. The park position switch is designed to prevent battery discharge while unit is in the park or storage position. The new PCB board has caused some units to briefly shut down for 5-6 seconds while operating due to the sensitivity of the electronic switch. The 5-6 second shut down may occur under the following conditions:

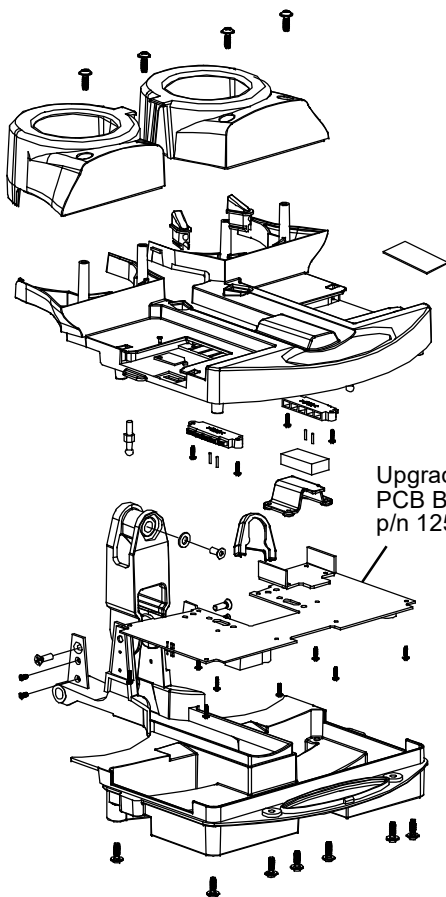
- Bumping into walls
- Striking an obstacle
- Operating on uneven surfaces or over floor transitions
- Making sharp turns of 180 degree

Note: The new park position switch was planned to be introduced on the new Plus models, but was also incorporated earlier on some XL legacy units. See serial numbers above for all affected models.

PURPOSE: To eliminate the above issue, order the upgraded PCB board p/n 1251756.

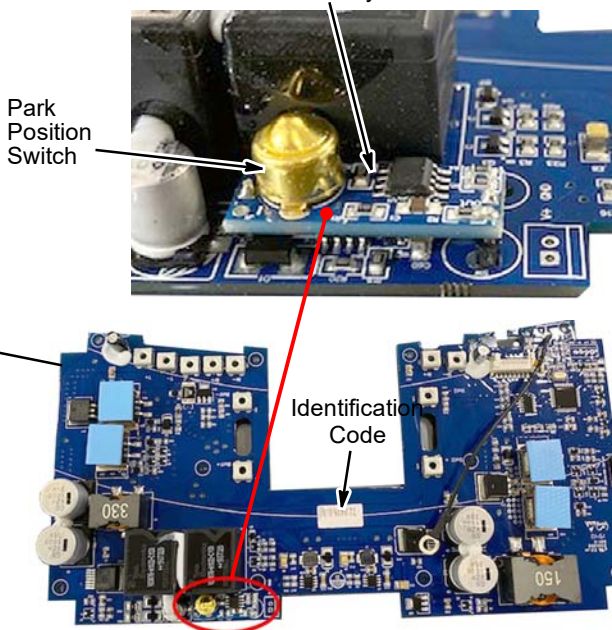
NOTES: See page 2 for the complete list of the new i-mop PLUS Automatic Shutoff Systems.

Warranty Information: Standard warranty terms apply.



To identify the difference between the existing PCB board and the upgraded PCB board, the upgraded PCB board has a small secondary circuit board as shown below. The upgraded board also has identification code 72.0418.0/A.

Small Secondary Circuit Board



The park position switch is designed to shut off power when unit is in the park or storage position to prevent battery discharge. Scrub deck in up position.

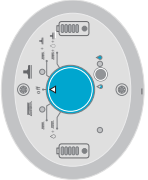
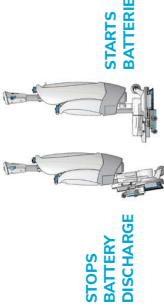
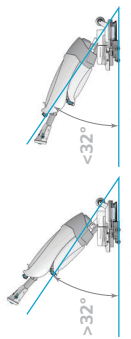
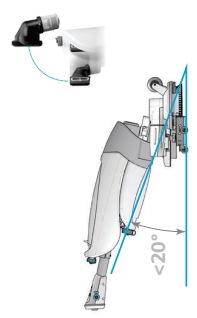


Service Note: When handling a new PCB board, use an anti-static ground strap to prevent board damage.

i-mop PLUS Automatic Shutoff Systems

i-mop is equipped with several automatic shutoff systems to protect it from damage, and to maximize battery life.

Each of these systems are designed to protect against specific problems, and all of them work together to optimize cleaning performance, operator experience, and equipment life.

Shutoff System	Protects Against	Activation Mechanism	Notes	Visualization	Main Board / Batteries	Vac Motor	Brush Motor	Magnetic Valve	Mechanical Valve
Main Switch	Shuts off power to machine when not in use.	Set Dial position to OFF	When Main Switch power is off, and deck is left in the down (Operating) position, the main board remains connected to batteries and trickle battery discharge still occurs. Raising the deck to the up (Park) position engages the Park Position Switch which completely shuts down batteries.	 Set Dial position to OFF	ON	OFF	OFF	OFF (closed)	NO EFFECT
Park Position Switch	Prevents battery trickle discharge when scrub deck is placed in park position.	Raise deck to disable battery discharge Lower deck to enable battery power	Prevents battery discharge even if Main Switch is left on in any of the cleaning positions.		OFF	OFF	OFF	OFF (closed)	NO EFFECT
Angle Switch	Protects vacuum motor from water intake when handle is lowered below 32 degrees.	When handle is lowered below 32 degree angle , the Angle Switch is activated to prevent further water intake.	- cuts off power to the vac motor to prevent further intake of solution; - closes magnetic intake valve to prevent solution outflow into vac motor. When handle is raised above 32 degrees , vac motor will restart after 5 seconds.		ON	OFF	ON	OFF (closed)	NO EFFECT
Overflow Safety Ball Float Shutoff	Protects vacuum motor from flooding when handle is lowered below 15-20 degrees.	When handle is lowered below 15-20 degrees the Ball Float Shutoff is activated to prevent overflow into the vacuum motor even when system power is OFF	The mechanical Ball Float Shutoff does NOT affect any electrical systems (main switch, vac motor, brush motor, magnetic valve). When water flow stops because floating ball blocks suction, put the machine back into normal operating position. This will release the Ball Float from the blocked position. Note that the machine must be in upright position to restart. When Recovery Tank is full, the Ball Float will shut off the water intake. Empty and rinse tank. Check Ball Float for debris. To release the ball, place machine in operating position, then press the trigger on and off to restart the machine		ON	ON	ON	ON (open)	OFF (closed)