	Troubleshooting Guide: Safety Key Reed Switch	
Prepared by: Regina Templeton	Date Prepared: 6/24/2015	Models Affected: AFG, Horizon, Livestrong, and Vision Treadmills

DESCRIPTION

The console displays “Safety Key Off” when the safety key is in place


REQUIRED TOOLS

Philips Screwdriver Flat-head Screwdriver

TYPES OF SAFETY KEY



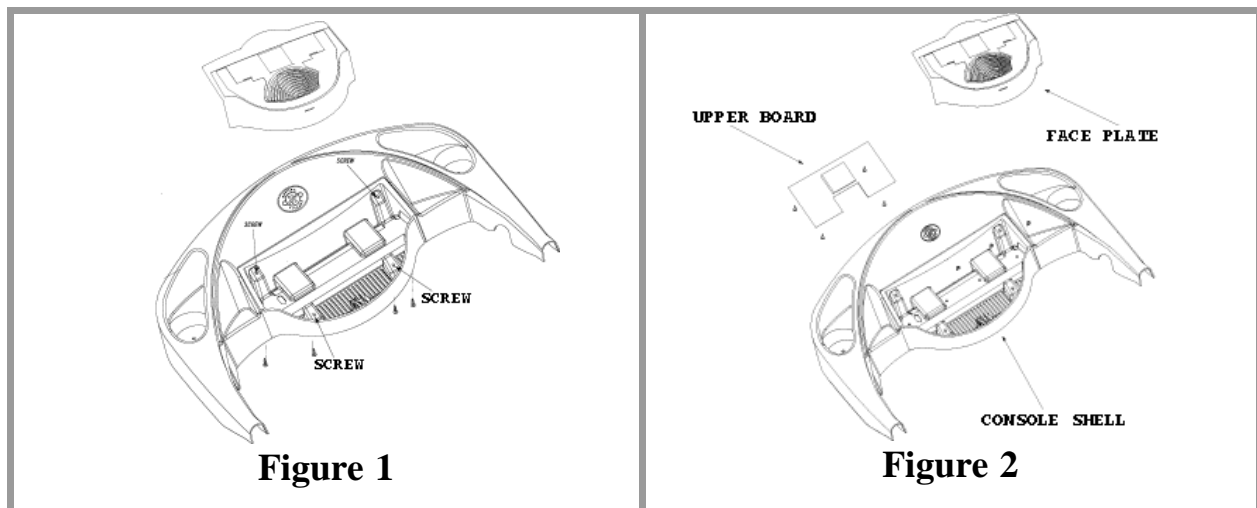
Symptom	Possible Cause	Test Procedure	Repair
The console displays dashes or “Safety Key Off” when the safety key is in place.	Safety key is positioned incorrectly or has failed.* <i>*Magnetic key only</i>	<ul style="list-style-type: none"> - Remove safety key and reapply. - Test the magnet on the safety key. 	Replace safety key.
	Improperly aligned reed switch* <i>*Spade (plastic tab insert) key only</i>	Remove reed switch and press metal tab to see if console recognizes signal (see instructions below)	Re-align tab and install reed switch
	Failed reed switch or failed upper control board	Short the switch connector on the upper board by using a flat-head screwdriver or by placing a jumper switch on the connector.	<ol style="list-style-type: none"> 1. If console display becomes normal, replace the reed switch. 2. If the console still displays dashes, replace the upper control board.

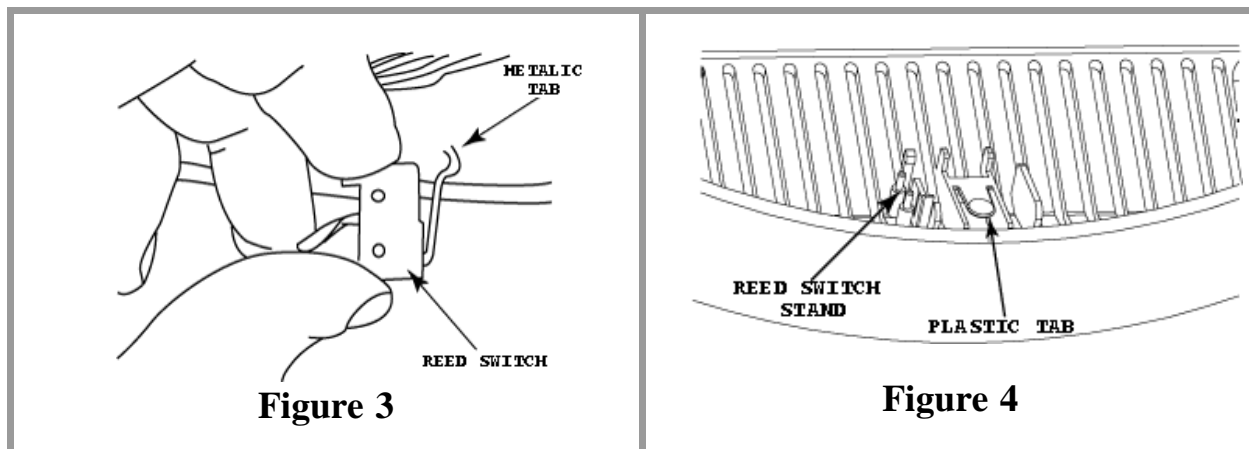
	<p>The metal pin(s) at the console cable connection are bent.</p> 	<p>Unplug the console cable and check the pins.</p>	<p>Use a flat-head screwdriver to straighten the pins and then reconnect the console cable.</p>
<p>Safety key only registers outside of the proper position*</p> <p><i>*Magnetic key only</i></p>	<p>Improperly aligned reed switch</p> <p>Improperly aligned metal fixing plate (glued behind the reed switch)</p>	<p>Unglue the reed switch and reposition the reed switch or the metal fixing plate</p>	<p>Test for proper function and glue into place.</p>

ALIGNING THE TABS ON THE REED SWITCH FOR A SPADE SAFETY KEY

Note: This step applies to units that have an open reed switch (tab exposed) and typically use a plastic spade safety key

1. Remove the screws on the back of the console that hold the faceplate in place (Figures 1 and 2).
2. Adjust the alignment of the reed switch by pulling the metal tab toward the right (Figure 3).
3. Place your index finger under the plastic tab and gently push it up to ensure that the safety key engages with the reed switch (Figure 4).





4. Test to see if the console recognizes the safety key. Proceed with testing for either a failed reed switch or failed upper control board (see chart).