


<b>Effective Date:</b> 5/5/11	 <b>Service Bulletin</b>	<b>Revision</b>
<b>Warranty:</b> Depends on Install Date	<b>Replacing the Power Components on Horizon Treadmills with NON - Hardwired Power Cord</b>	<b>Revised Date:</b>
<b>Time Required:</b> 30 minutes	<b>Serial Numbers Affected:</b> All	<b>Prepared by:</b> Kevin Oeltjenbruns

## DESCRIPTION

Some customers have become confused while installing new power components in Horizon Treadmills with NON-hardwired power cords (there is a separate instructions for units with a hard wired power cord).

## SOLUTION

Create this instruction detailing how to install the power components.

## PARTS REQUIRED (Depending on defective component(s))

Power switch – 003326-00  
Power cord – 002169-A  
Circuit Breaker – 003346-00

## TOOLS REQUIRED

Phillips Screwdriver  
Flat Screwdriver

## PROCEDURE


1. Unplug the power cord from the wall outlet.
2. Unplug the power cord from the front of the treadmill.
3. Remove the screws holding the motor cover to the frame using a Phillips Screwdriver (Figure A). The motor cover will typically be held on by 2-4 screws. The motor cover can now be removed (Figure B).



Figure A



Figure B

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4. Unplug and remove the defective component(s).

- a. To remove the power switch – Unplug the wiring at the back of the switch. Depress the tabs on the top and bottom of the power switch (Figure C) and then remove it from the frame towards the front of the treadmill (Figure D). **NOTE:** A flat screwdriver may be needed to depress the tabs.



Figure C



Figure D

- b. To remove the circuit breaker – Unplug the wiring at the back of the breaker, and then remove the plastic nut holding the circuit breaker to the frame (Figures E & F). Then remove the circuit breaker from the frame towards the rear of the treadmill (Figure G).



Figure E



Figure F



Figure G


- c. To remove the power cord receptacle – Unplug the ends of the power cord wiring (the wiring will be removed at the end component rather than the back of the receptacle unlike the other components). Remove the 2 screws holding the receptacle to the frame and remove the receptacle and wiring (Figures H & I).



Figure H



Figure I

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5. Install the new component(s) in place of the removed component(s).
  - a. To install a power switch – Push the power switch into the frame from the front until it snaps into place. The power switch has 4 spades on the back. One of the bottom spades should have the red wire from the power receptacle (Figure J), the other should have a black wire from the bottom of the circuit breaker (Figure K). The top two spades should have black and white wiring coming from AC1 and AC2 on the Motor Control Board (Figure L). **NOTE:** Which top or bottom spade does not matter, the wires can go to either spade at that level.



Figure J



Figure K

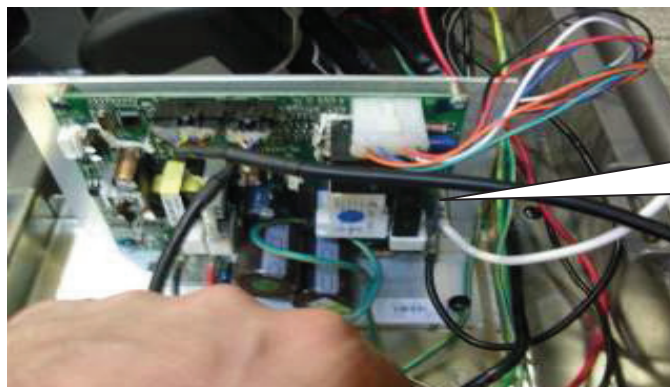


Figure L

The top spades of the power switch go to AC1 and AC2 on the Motor Control Board.


- b. To install a circuit breaker – Remove the plastic nut from the circuit breaker. Push the circuit breaker into position from the rear of the unit. Install the plastic nut removed in Step 4b to hold the circuit breaker to the frame. The circuit breaker has 2 spades. One spade should be connected to a black wire coming from the power receptacle (Figure M). The other spade should be connected to a black wire going to the bottom of the power switch (Figure N). **NOTE:** The wires can go to either spade on the circuit breaker.



Figure N



Figure O

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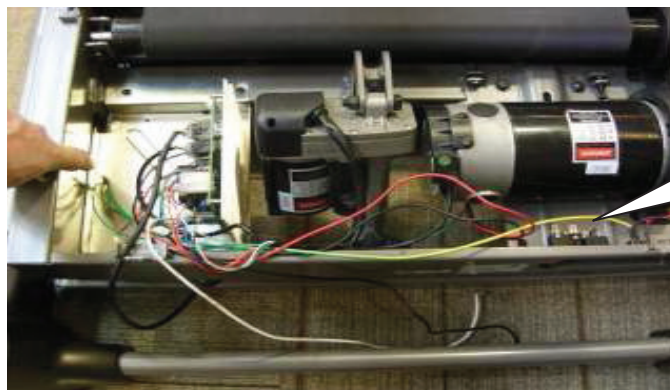
- c. To install a power receptacle – Push the power receptacle into the hole in the frame. Mount the power receptacle to the frame using the 2 screws removed in Step 4c. The black wire should go to one of the spades on the circuit breaker (Figure P). The red wire should go to one of the lower spades on the power switch (Figure Q). The green / yellow wire should go to the ground prong in the motor compartment (Figure R).



**Figure P**



**Figure Q**



**Figure R**

The power receptacle ground wire runs all the way over to the ground prong next to the Motor Control Board.

6. Re-install the motor cover using the screws removed in Step 3.
7. Plug the power cord into the wall outlet and test the treadmill for function.
8. If the issue is not resolved or additional issues arise, contact Horizon Customer Technical Support at 1-800-244-4192.