

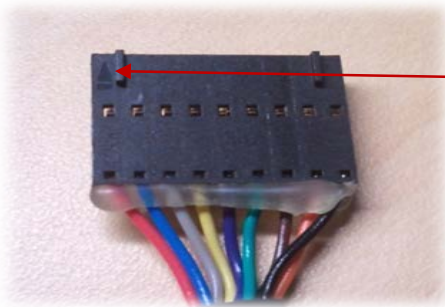
|                                                                                   |                                                       |                                                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------|
|  | <b>Troubleshooting Guide:</b><br><b>Console Cable</b> |                                                                           |
| Prepared by:<br>Emilie McWilliams                                                 | Date Prepared:<br>4/26/2016                           | Models Affected:<br>Treadmills with a 9 pin console cable (2011 or later) |

| Pin#     | Pin Name  | Description                    | Voltage (vdc)     | Symptom When Wire Cut                                                                                                                                                                                                                                                                                                                                                                                             |
|----------|-----------|--------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 BLACK  | POWER     | +12V power                     | +12               | The console does not turn on.                                                                                                                                                                                                                                                                                                                                                                                     |
| 2 GREY   | GND       | Ground                         | 0.0               | The console does not turn on.                                                                                                                                                                                                                                                                                                                                                                                     |
| 3 ORANGE | COUNT     | Incline motor position counter | 0 ~ +5.0          | After you press Start, the incline motor moves for a few seconds and then freezes. The incline buttons beep when pressed, but the incline percentage on the console screen does not change. In Hardware Test, the incline motor moves up and down, but the count on the console screen stays at 0.                                                                                                                |
| 4 RED    | UP        | Incline up signal              | 0 ~ +5.0          | The incline buttons beep when pressed, but no incline movement and the incline percentage on the console screen does not change.                                                                                                                                                                                                                                                                                  |
| 5 BLUE   | ZERO      | Incline motor 0 position       | 0 ~ +5.0          | <ul style="list-style-type: none"> <li>Some units – the incline buttons beep when pressed, but no incline movement and the incline percentage on the console screen does not change.</li> <li>Some units - incline motor moves for a few seconds, but then freezes and does not move again. The console appears to function normally. If the treadmill is left on, the incline motor becomes very hot.</li> </ul> |
| 6 YELLOW | DOWN      | Incline down signal            | 0 ~ +5.0          | The incline motor goes up, but not down. The console appears to function normally: the incline percentage on the console screen changes as you press the incline up and down buttons.                                                                                                                                                                                                                             |
| 7 GREEN  | RPM       | Front roller RPM               | 0 ~ +5.0          | E1 error. After you press Start, the running belt moves for 10 seconds, but then freezes. In Hardware Test, the running belt moves but the console does not display RPM.                                                                                                                                                                                                                                          |
| 8 PURPLE | MOTOR SW  | Safety key signal              | 0 ~ +5.0          | E1 error. No running belt movement and no incline.                                                                                                                                                                                                                                                                                                                                                                |
| 9 BROWN  | PWR MOTOR | Drive motor speed              | 0 ~ +5.0 at 225Hz | E1 error. No running belt movement.                                                                                                                                                                                                                                                                                                                                                                               |

## Further Troubleshooting

If a treadmill has no motor movement, check whether the incline motor is working:

- A failed console cable is the primary cause of no running belt movement with no incline movement.
- The motor control board (MCB) is the likely culprit if the incline motor works and the running belt does not move.



This arrow means that this is Pin 1

The customer or technician can test continuity by touching the prongs or spades at the end of the cable.

