

# CHAPTER 4: TROUBLESHOOTING

## 4.2 Troubleshooting – No Resistance or Incorrect Resistance

- Symptom :**
1. The resistance is not adjustable during an exercise.
  2. The resistance is reverse or much too heavy.

**Reason :**

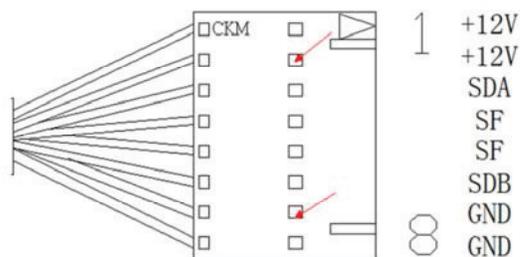
1. The speed sensor wire is defective.
2. The console cable or ECB motor is defective.
3. The steel rope of the magnet system is not routed correctly.
4. The inside magnet is defective.

**Solution :**

1. Check if the console shows RPM value. If it does not, refer to troubleshooting for NO RPM DISPLAYED in Section 4.1.
2. Remove the front shrouds. Turn on the console, and check the ECB motor. At resistance level 1, the head of the steel rope should point towards the top right side (around 45 degrees). If the head of the steel rope points toward the bottom or left side, the resistance will be reversed, adjust the head of the steel rope to the correct position.



3. Press the LEVEL UP key to adjust the resistance.
  - a. If the ECB motor does not move, the resistance will not be changed. The ECB motor or console cable is defective. Check the console cable connection at the ECB motor. Use a multi-meter to measure the voltage through the console cable. It should be 12VDC.
  - b. If there is no voltage present, the console cable is defective. Replace the console cable.
  - c. If the voltage is 12VDC, the ECB motor is defective. Replace ECB motor.



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### 4.2 Troubleshooting - No Resistance or Incorrect Resistance - Continued

- d. If the ECB motor does move, the resistance can be adjusted. If the resistance is still too heavy, check the gap between the orange block and the bottom of the ECB track. It should be within 1-2 mm of the bottom of the ECB track. If the gap is bigger than 1-2 mm, the resistance will be heavier than normal. Adjust the cable to the correct gap range.



4. If all above conditions are ok, and the resistance is still too heavy, the magnet inside the ECB is defective. Replace the ECB.