

Troubleshooting 9.5 – TRM – Troubleshooting the Auto Stop Feature

Auto stop is a feature incorporated into all next generation Experience series treadmills. The Auto Stop feature monitors motion from the running deck, the presents of motion indicates a user is present, the lack of motion indicates that a user is not present. If the running belt is moving and the Auto Stop does not detect motion from the running deck, the Auto Stop feature will stop the motion of the running belt.

When a program is entered or Quick Start is pressed, the treadmill starts at 1 mph. The user will then have 60 seconds to enter any remaining workout settings before motion detection begins. Once motion detection has commenced and if no or very little motion is detected, the Auto Stop feature interprets that the treadmill is no longer in use. The Auto Stop feature will continue to monitor the treadmill for motion for 30 second, if motion is still not detected after 30 seconds a 10 second count down will be display of the treadmill. After the 10 second count down has elapsed and motion has not been detected, the Auto Stop feature will stop the motion of the running belt and go into pause mode. If motion is detected within the 60, 30, or 10 second count down cycles the shut down feature will be aborted.

The Auto Stop feature can be enabled or disable within the software service menus. See Procedure 3.3 (P80), 5.3 (P30), 6.3 (P20) Setting Club Parameters. Note: If enabled, the auto stop feature will need to be disabled during belt replacement, adjustment and tracking procedures, and if the club requires this feature it will need to be re-enabled prior to putting the unit back in use.

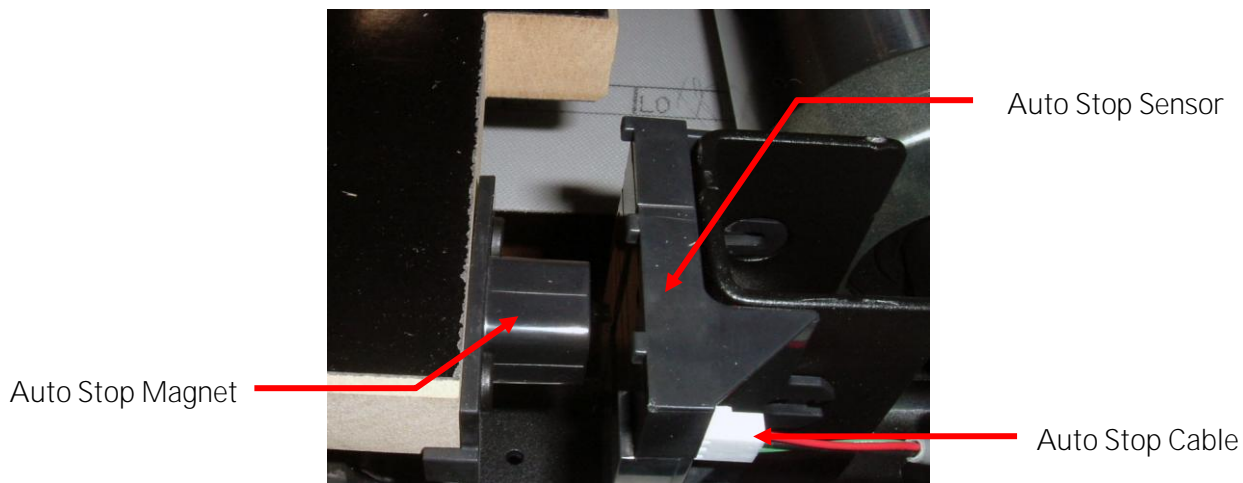
This procedure will provide troubleshooting steps for the Auto Stop feature.

Procedure:

1. If the Auto Stop feature does not function continue with step 3.
2. If the Console is displaying Temporarily Out of Order (P80) or Please use another Treadmill (P30 & P20) go to step 6.
3. Check the treadmill to ensure the Auto Stop hardware is installed. See Diagram 9.5.1. If the Auto Stop hardware is not installed contact Precor customer support to see if your treadmill is compatible for the Auto Stop or arrange the installation of the Auto Stop hardware.
4. If the Auto Stop hardware is installed, access the club settings and check if the Auto Stop feature is enabled. If it is not enabled, enable the feature. See Procedure 3.3 (P80), 5.3 (P30), 6.3 (P20) Setting Club Parameters. If the treadmill has a P80 console and the Auto Stop feature is not displayed in the Club Settings software menus it is possible the software does not support the Auto Stop feature. The Auto Stop feature was not available until software version 1.03. Contact Precor customer service for more information.
5. If the Auto Stop feature is enabled and you have performed steps 3 and 4 contact Precor customer service.

6. Access the diagnostic system tests, and select the Auto Stop test. See Procedure 3.1 (P80), 5.1 (P30), 6.1 (P20) Accessing the Diagnostic Software If the feature is enabled the P80 Auto Stop sensor test will count the number of times the magnet crosses the sensor. On the P30 and P20 the consoles will display USER DETECTED if motion is detected from the running deck or NO USER DETECTED if no motion is detected from the running deck. If the unit passes this test or a USER DETECTED is displayed and the Auto Stop feature still does not function contact Precor Customer Support. If the Auto Stop did not pass the test continue with step 7.

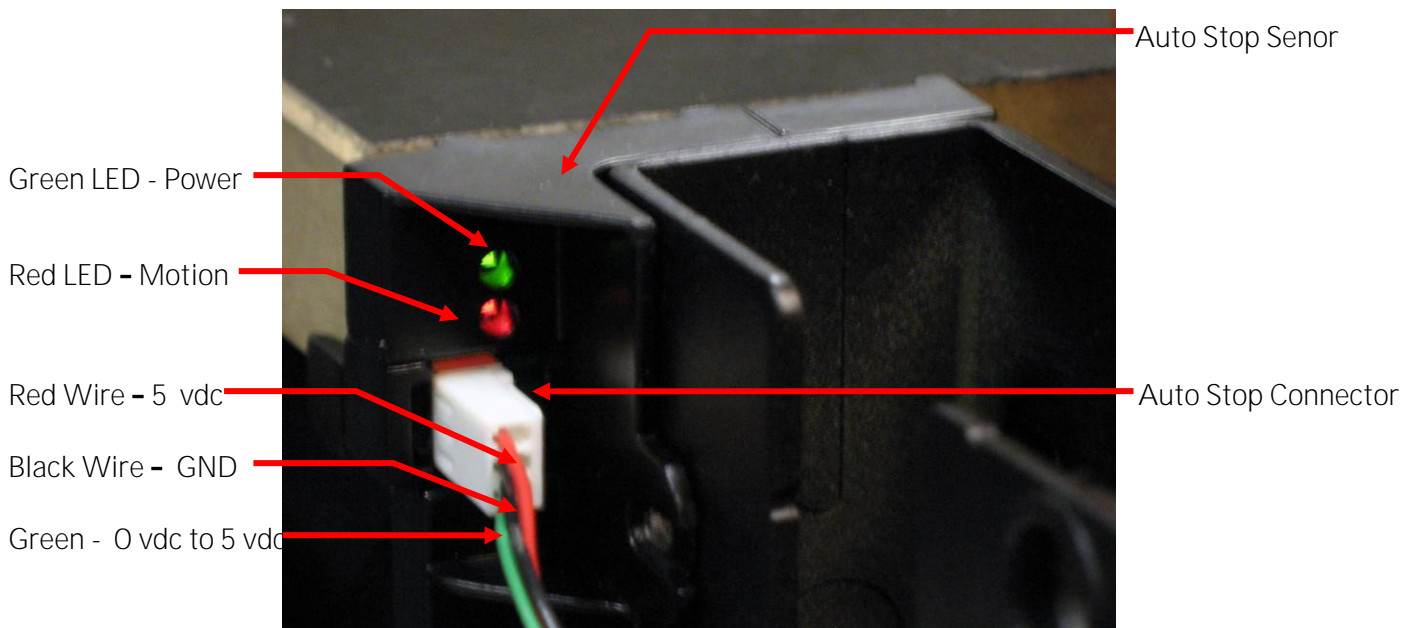
Diagram 9.5.1



Caution: Do not place the auto stop magnet on or near a steel structure. If the magnet assembly comes in contact with a steel structure and then pulled away from the steel structure, the magnet can become dislodged from the magnet assembly housing. Should this occur, contact PRECOR customer service for possible options for repairing the magnet assembly or to obtain a replacement part.

7. The Auto Stop system consists of a magnet holder mounted to the right front corner of the deck and a Hall Effect sensor mounted to the drive roller bracket of the frame. Check the alignment and gap between the Auto Stop magnet holder and the Auto Stop sensor. If the alignment and gap are not correct, it may be necessary to loosen the deck and adjust so that the magnet is gapped and positioned properly relative to the sensor. Reference Procedure 10.13 Replacing the Auto Stop Magnet. If the alignment and the gap between the Auto Stop magnet holder and the Auto Stop sensor are correct continue with step 8.
8. The Auto Stop sensor will display a green blinking LED visible next to the connector, indicating that power is being applied to the sensor board. The LED does not tell you if the voltage is correct, just that it is present. If the LED is not lit or if LED is lit continue with step 9. See Diagram 9.9.2

Diagram 9.9.2



9. The connector has 3 wires (red, black, and green), which can be metered for troubleshooting. Unplug the Auto Stop connector from the Auto Stop Sensor.
10. Place the meter's red lead to the red wire and black lead to the black wire of the Auto Stop connector. The meter should indicate 5 volts +/- 0.1 volt. If 5 volts is present skip to step 12.
11. If the 5 volts is not present or significantly low temporarily replace the Auto Stop cable with a known good cable and repeat step 10. If the 5 volts is not present or the voltage is still significantly low replace the console or upper PCA. If 5 volts is present permanently replace the Auto Stop cable.
12. With the Auto Stop connector plugged into the Auto Stop sensor place the meter's red lead to the green wire and black lead to the black wire. The meter should indicate 5 volts +/- 0.1volt. While monitoring this voltage, have someone step and/or bounce on the deck Note: the running belt does not need to be nor should it be moving for this test. The voltage between the black and green wires should fluctuate when the deck is moving up and down. If the voltage does not change with movement replace the Auto Stop Sensor.
13. If you have preformed all the described steps and the Auto Stop feature will still not function contact Precor Customer Support.