

Issue Summary ERROR E-7 Requiring Calibration of the AC Incline motor and VR

Applies To Treadmill models 1096, 1098, 1190, 1200, 1250(N), 1260, 3007 and 6005

Detailed Problem Description	ERR E-7 indicates that the AC incline motor and the variable resistor (VR) are not synchronized. Signal from the VR is not being received properly. Mechanical and/or electrical calibration is needed to reset this error message.
Procedure Overview	1) Mechanical Calibration 2) Electrical Calibration 3) Test Equipment Operation
1) Mechanical Calibration A) Remove the motor cover B) Remove the VR/gear box cover C) Remove the gear and washer D) Turn equipment on side E) Zero the incline mechanism F) Return equipment to normal use position	NOTE: Disconnect power and allow 2 – 3 minutes for equipment to fully discharge before performing electrical work to avoid personal injury and/or damage to equipment. A) Locate and remove the retaining screws on the motor cover. Lift the motor cover to remove. Invert motor cover and set it aside; place screws inside cover.  B) Locate and remove the retaining screws on the VR/gear box cover. Lift the cover and invert without disconnecting any wires. Place the screws in the motor cover. 

Issue Summary ERROR E-7 Requiring Calibration of the AC Incline motor and VR

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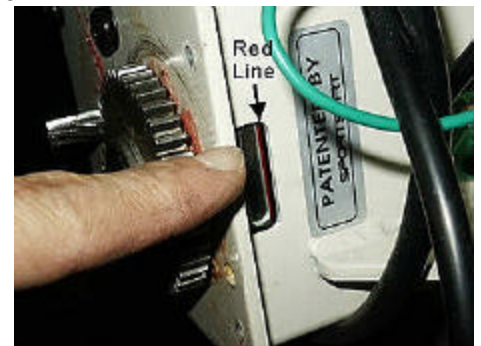
- C) Remove the large white gear and accompanying washer from its spindle. Place the gear and washer in the motor cover.



- D) Gently tip the equipment on its side. Use a towel between contact points on hard flooring to keep from damaging floors and/or equipment.



- E) Rotate the exposed metal gear until the red incline indicator line is flush with the bottom of the incline indicator window.



- F) Return equipment to its upright position and reconnect the power source. Turn the equipment ON.

Illustration #2

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NOTE: The equipment is powered up during this process. Take appropriate precautions to avoid personal injury and equipment damage from electrical shock.

- A) Using a multimeter set to read 20VDC, test the VR voltage for the appropriate zero-incline reading. In the VR/gear box, locate the 3 spade connector (blue/green/red wires).
- 1) Place the ground (black) multimeter probe on the ground wire (BLUE) connector terminal, making sure to maintain metal-to-metal contact.
 - 2) Place the positive (red) multimeter probe on the adjustment wire (GREEN) connector terminal, making sure to maintain metal-to-metal contact.



2) Electrical Calibration

- A) Test VR voltage
- B) Zero the VR Calibration
- C) Reinstall gears
- D) Replace VR/gear box cover

- B) Check the VR Zero Incline reading against the chart to determine calibration status. (Chart #1) To adjust voltage turn nylon gear clockwise or counterclockwise until voltage is at correct setting.



- C) Follow previous instructions to reinstall nylon gear.
- D) Follow previous instructions to reinstall VR/gear box.

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CHART #1	Model	Incline Position (low)	VR Voltage	Incline Position (high)	VR Voltage
	1210	0%	1.27 VDC	10%	3.70 VDC
	1190	0%	1.27 VDC	10%	3.70 VDC
	1200 1250(N) 1260	0%	1.27 VDC	10%	3.70 VDC
	3007	0%	1.27 VDC	10%	3.70 VDC
	6005	0%	1.27 VDC	15%	4.50 VDC
3) Test Equipment Operation A) Incline UP B) Incline DOWN C) Recalibration (if needed) D) Replacement (if needed) E) Completion	A) Operate the incline motor set up. Press the incline up key. Display incline values increase. Up LED on the drive board lights. Incline operates up. B) Operate the incline motor set down. Press the incline down key. Display incline values decrease. Down LED on the drive board lights. Incline operates down. C) If ERR7 or ERR6 appears again, inspect VR calibration. Recalibrate (if needed.) D) Replacements (if needed): 1) If VR loses its calibration, replace it. 2) If incline motor engages, but incline shaft does not move, a gear inside the motor has broken. Replace the gear, or the motor. 3) If incline motor gets voltage but does not operate, replace the incline motor. E) Replace the motor cover and retaining screws.				