

NORAMCO FITNESS

13901 Highway 105 West
Conroe, TX 77304

www.NoramcoFitness.com

WARNING!

The parts included in this shipment have been tested and verified to work properly.

However, you must install the potentiometer we have sent in this shipment. If you do not install the potentiometer there is a possibility that a bad signal can be sent to the new display board. This signal can damage your display board. This damage will not be covered under warranty!

Do not allow your treadmill to power on until you install both the display board and the potentiometer.

After installing this upgrade kit, calibrate the display using the enclosed calibration instructions. Failure to recalibrate the display board before use could result in damage to the treadmill, injury to the user, and could void the warranty.

Thank You,
Noramco Fitness Service Department

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Installation Instructions for the 1.9 Display Upgrade Kit

The Version 1.9 Display Upgrade kit includes the following:

- Version 1.9 Display Board
- Version 3 Power Supply Board
- Triple Jumper Set with Molex connector
- 8-Pin Data Cable
- 6-Pin Data Cable
- Lift Motor Power Cord Adaptor
- Lift Motor Potentiometer

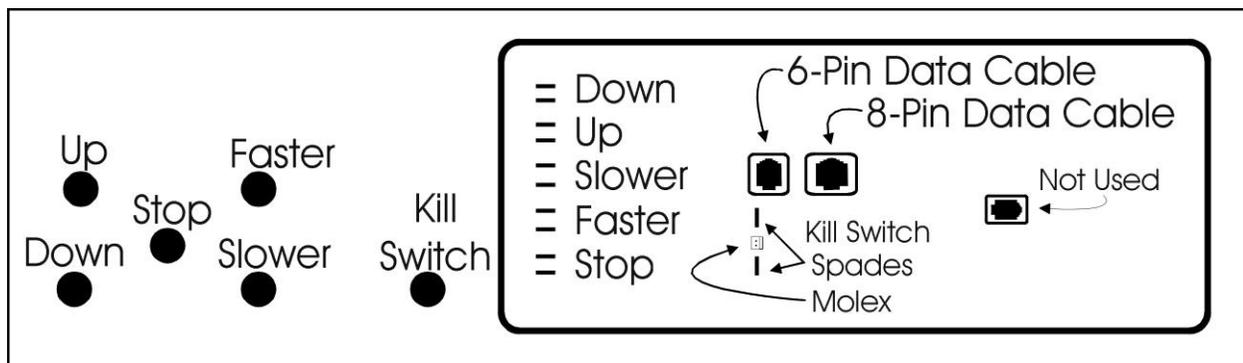
There are four main steps to follow to install the Version 1.9 Display upgrade:

1. Replace the display board.
2. Replace the data cable
3. Replace the power supply and lift motor potentiometer

Always be sure the treadmill is turned off and unplugged before attempting any electronic board replacement.

Step 1 Remove the old display board and install the 1.9 Display board

- A. Carefully pull the spade connectors off of each of the pushbutton contacts and the kill switch on the old display board.
- B. Unplug the data cable, but do not let it fall down the leg of the upright. (You will need the old cable to fish the new cable through the upright.)
- C. Carefully pull the old display board off of the stand-offs. (If any of the stand-offs come off of the inside of the display, they can be re-attached with Crazy Glue.)
- D. Press the new Version 1.9 Display board onto the stand-offs until a click is heard from all the corners.
- E. Plug the kill switch wires into the new 1.9 Display board using either the molex pins or the spade connections, as needed. If your old display board has a kill switch jumper wire and a 1" x 2" kill switch printed circuit board, do not use them. They are no longer needed.



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- F. Plug the pushbutton wires into the board, using the diagram above to match each pushbutton to the correct spade pair.
- G. Plug the new data cables into the appropriate telephone-style jack. There is one 6-pin connector, and one 8-pin connector. Push the connector in until it clicks to ensure a secure connection.

Step 2 Replace the data cable:

- A. Tape both of the new data cable ends to the upper end of the old data cable, covering all of the connectors as smoothly as possible.
- B. Feed the cable down the leg of the upright, and pull the cable gently from the bottom to guide the new cables into place. Do not just pull from the bottom only, as this tends to damage the new cables. Instead, push the cables into the leg from the top as much as possible, then pull gently on the cable coming out the bottom to ease the cables down.
- C. Once the ends of the new cables are completely through the leg and extending from the bottom at least 10 inches, remove the tape.

Step 3 Replace the power supply and lift motor potentiometer:

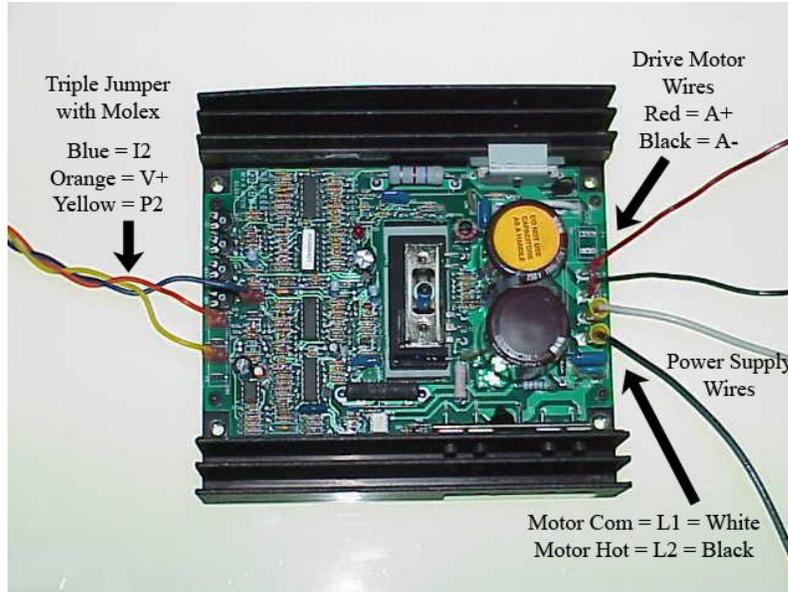
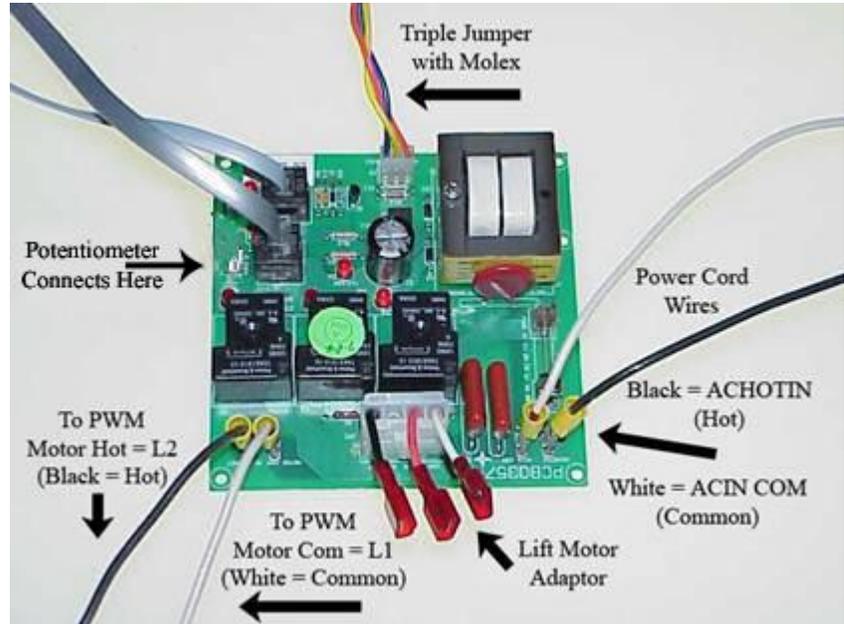
- A. Unplug all of the wires from the old power supply, being careful not to damage the connectors as you remove them. Take the old power supply out.
- B. Attach the lift motor power cord adaptor to the wires coming from the lift motor power cord, matching the wire colors. (Attach the red wire on the lift motor cord to the red wire on the adaptor. White wire to white wire, etc.)
- C. Remove the old potentiometer from the top of the lift motor. This may require putting the treadmill on its side and removing the bolt that attaches the lift motor to the frame. Remove the old potentiometer by removing the 2 screws that attach the mounting bracket to the top of the lift motor. You will need to remove this bracket from the old potentiometer and put it on your new one. Pay close attention to the way the bracket is attached to your old potentiometer. You will want to attach it to your new potentiometer in exactly the same way.
- D. Put the new power supply in place and attach it securely using the original stand-offs or screws.
- E. Plug the new data cables coming from the lower end of the upright leg into the telephone-style jacks on the power supply board. There is one 6-pin connector and one 8-pin connector.
- F. Use the Triple Jumper set with the Molex connector to connect the new power supply to the old PWM board, using the wiring diagrams below.

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Power Supply Wiring Diagram



PWM (Motor Controller) Wiring Diagram

G. Refer to the Power Supply Diagram to check the connections as you plug in the two Lift Motor wires, the Power Cord wires, and the PWM power wires.

Double-check all connections to ensure good contacts, then plug the treadmill into the appropriate wall outlet. **Prior to first use, you must calibrate the display using the enclosed calibration instructions.**