

Replacing the VSD Board/Bracket Assembly

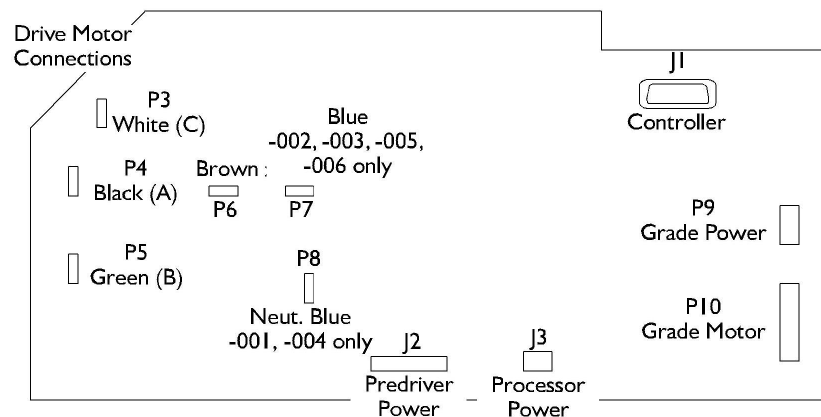
The VSD board is installed on a bracket located on the side of the treadmill.

1. Turn off the controller and the treadmill circuit breaker, then unplug the power cord from the power outlet.
2. Remove the hood as previously described.

Warning

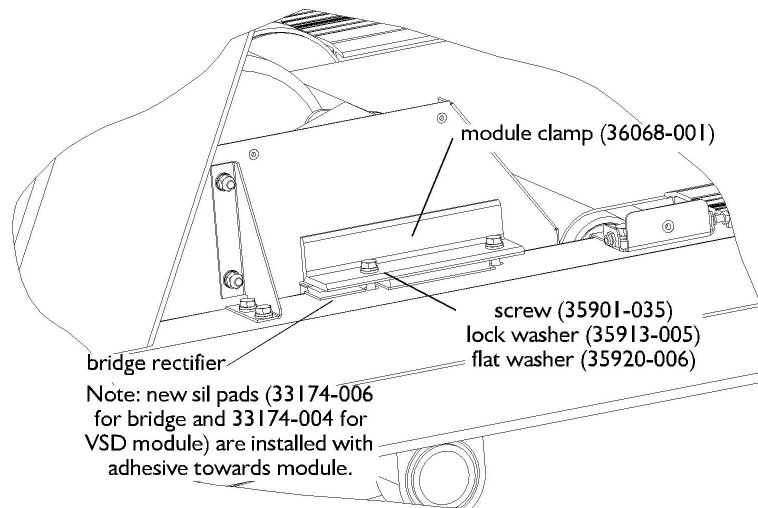


To prevent high voltage electrical shock: Before working on or around any electrical or mechanical component under the hood, wait at least two minutes from the time you unplug the power cord and be sure the red LEDs on the VSD board are off.



PCB Assembly - Treadmill Drive (036028)

3. Disconnect the controller cable (J1) from the VSD board.
 - ▶ **IMPORTANT:** In the following steps, note the connection points and the colors of the wires as you remove them from the VSD board. All of the wires are harnessed. Reference wiring schematic.
4. Unplug the grade power and grade motor connectors (P9 and P10) from the VSD board.
5. Unplug the predriver power (J2) and processor power (J3) connectors.
6. Unplug the AC power connections (P6 and P7 (230V units) or P8 (115V units)).
7. Unplug the drive motor wires (P3, P4, P5).
8. Remove the two M6 screws that hold the switch module clamp to the side rail and remove the clamp.



9. Remove the six M6 screws holding the card cage.
10. Remove the angle support bracket from the VSD board/bracket assembly.
11. Remove the VSD/card cage assembly and return it to Quinton.
12. Replace the sil pad for the switching module before installing the new assembly.
13. Reassemble in reverse order.

Caution



Use caution when reassembling the hold-down plate for the switching module. Alternate torquing the screws just until the split lock washer is compressed. Over-torquing the screws will damage the module.

Field Functional Test

To verify that the treadmill is operating properly, perform Field Test No. 2. See Appendix D, *Field Functional Tests* for specific instructions.

Replacing the Tensioner

The tensioner may need to be replaced if the poly-V belt slips, if the idler pulley bearing makes noise, or if the tensioner roller is damaged.

Warning



Do not attempt to disassemble the tensioner. The internal springs are tightly compressed and could cause injury if released.

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