

Procedure 6.4 — Replacing Drive Motor

1. Set the treadmill circuit breaker in the “off” position and unplug the treadmill’s line cord from the AC outlet.
1. Remove the hood.
2. The drive motor and flywheel are balanced as a matched pair. Since the flywheel is balanced to a specific motor, flywheels should not be removed from one and installed on a different motor. If the drive motor is replaced, the drive motor and flywheel should be replaced as a unit.
3. Disconnect the wires from the drive motor cooling fan. Disconnect the speed sensor connector from the J2 connector on the lower PCA. Disconnect the drive motor’s in-line connector located in the drive motor wires.
4. Remove the drive belt tension bolt, see Diagram 4.2. Rotate the drive motor as far as possible toward the rear of the treadmill.
5. Remove the drive belt from the drive motor pulley.
6. Remove the four bolts that fasten the drive motor onto it’s mounting plate. Remove the drive motor from the treadmill.
7. Remove the screws that mount the speed sensor and bracket onto the drive motor, see Diagram 6.9.
8. Mount the speed sensor and bracket on the replacement drive motor using the screws removed in step 7.
9. Remove the four screws that fasten the drive motor cooling fan onto the drive motor. See Diagram 6.13.
10. Mount the drive motor cooling fan onto the replacement drive motor with the screws removed in step 9.
11. Set the drive motor in it’s mounting position. Fasten the drive motor to it’s mounting plate using the bolts removed in step 6.
12. Set the drive belt in place on the drive motor pulley.
13. Rotate the drive motor forward and replace the drive belt tension bolt removed in step 4. Tension the drive belt per procedure 4.2.
14. Connect the brown and blue fan wires to the drive motor cooling fan. The blue and brown wires can be connected to either terminal. Reconnect the drive motor in-line connector. Reconnect the speed sensor to the J2 connector of the lower logic PCA.

15. Re-install the hood.
16. Check treadmill operation per Procedure 3.