

7. Replace with a new belt, then remount the front drive roller assembly. (When replacing the poly-V belt, be sure the belt is centered on the pulleys.)

Installing the Front Shaft Retainer

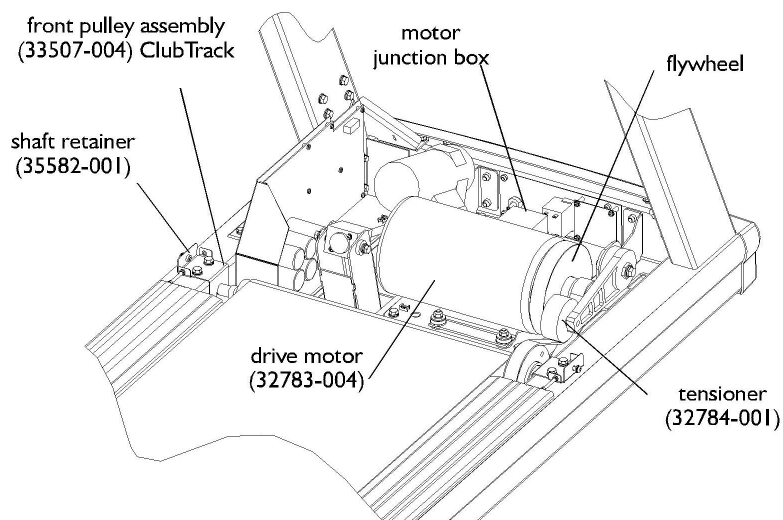
1. Install retainer. Be sure to center the shaft such that the retainer engages the grooves provided.
2. Assemble the treadmill following Steps 1-6 above in reverse order.
3. Tension the drive belt as described in Replacing the Tensioner.
4. Set the walk belt tension and tracking.

Field Functional Test

To verify that the treadmill is operating properly, perform Field Test No. 3. See Appendix D, Field Functional Tests, for specific instructions.

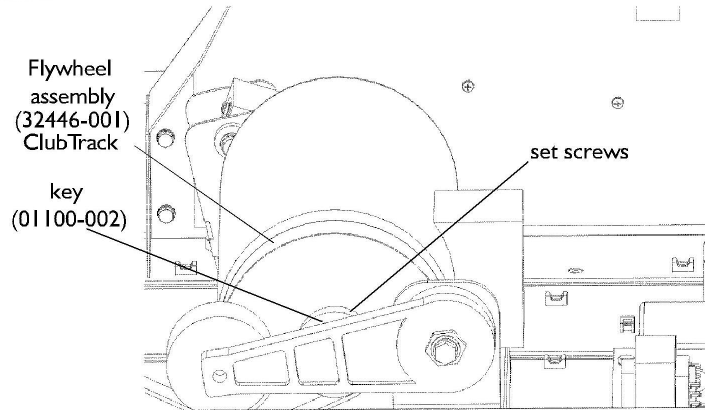
Replacing the Drive Motor

Replace the drive motor when the motor is inoperative: see Drive Motor flow chart in Chapter 3, *Troubleshooting*.



1. Turn off the treadmill circuit breaker and remove the power cord from the power outlet.
2. Remove the treadmill hood as previously described.
3. Release the drive belt tensioner and remove the poly-V belt from the motor drive pulley as previously described.
4. Cut the wire ties that hold the drive motor cable to the headframe and disconnect the motor cable at the VSD board.

5. Remove the four hex nuts that hold the motor mount on the headframe.
6. Pull the motor assembly off the headframe.
7. Using a 13mm open end wrench, remove the nuts and washers securing the motor. Note the arrangement of the isolator mounts.
8. Loosen the two set screws on the flywheel/drive pulley and remove. Use a gear puller to pull the flywheel off the motor shaft.



9. Reinstall the flywheel onto the motor shaft and loosely tighten the setscrews.
10. Replace the motor by following Steps 4 through 8 in reverse order. Use Loctite 242 adhesive on the motor mount studs before installing new motor mounting nuts.

Caution



Tighten the motor mounting nuts until the lock washer flattens, then turn the nut ½ turn. Do not overtighten the nut.

The new motor and flywheel assembly must be aligned with the front roller drive pulley. Use a straight-edged ruler placed on the outside of the front roller drive pulley to align the outside face of the motor drive pulley to within 0.020 inch (½mm). Tighten the set screws.

11. Replace the poly-V belt as previously described.
12. Replace the hood assembly as previously described.

Field Functional Test

To verify that the treadmill is operating properly, perform Field Test No. 3. See Appendix D, Field Functional Tests for specific instructions.

Replacing the Grade Actuator

- Place a clean sheet of cardboard or a clean rag on the treadmill deck before starting this procedure.