

Drive Belt Tension & Alignment Adjustment

About

This procedure provides instruction to verify and make adjustments to the Drive Belt tension. The Drive Belt tension should be verified anytime the drive belt is removed or replaced.




NOTE: This procedure assumes that the drive belt has been installed and seated onto the drive roller and drive motor pulleys.

Procedure

Review entire procedure before starting.

Drive Belt Tension Verification

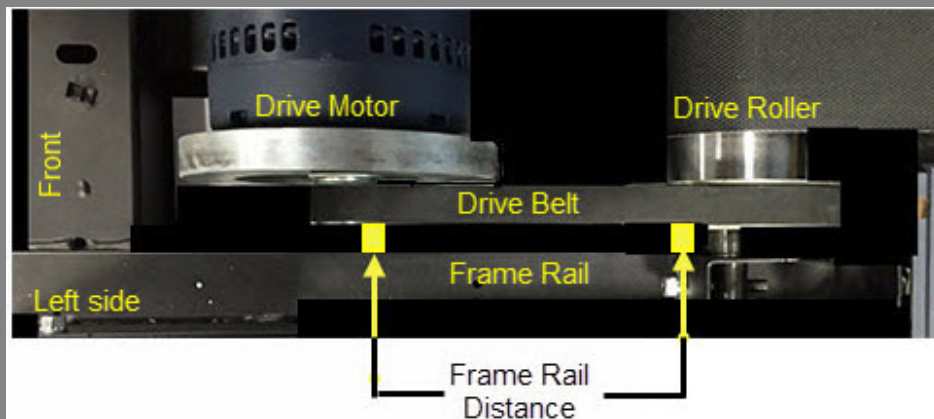
2. Switch the input power **OFF** and **unplug**  the power cord.
3. Remove the front hood.

Drive Belt Alignment

4. Verify the drive belt alignment. Make sure that the drive belt is aligned parallel to the frame rail. Measure the belt to frame rail distance at the drive roller pulley and at the drive motor pulley. If the measurements are not the same, adjust the belt position on the drive motor pulley to match the drive roller belt distance.



CAUTION: Improper drive belt alignment will cause damage and/or break the drive belt.



2. Place the belt tension gauge onto the drive belt.




3. Verify that the tension measurement is within the **Range Limit** specification, see *Drive Belt Tension Specification* table. Note that there is a separate **Range Limit** specification for New and Used belt installations.
 - a. If the belt tension is not within the **Range Limit** specification; Re-tension to the OEM specification, go to [Drive Belt Tension Adjustment](#) procedure below.
 - b. If the belt tension is within the **Range Limit** specification; Reinstall all covers, verify treadmill operation (see [Operation Verification](#)), and return to service.

Drive Belt Tension Specification

Belt Condition	Tension	Range Limit
New	105 lbs +/- 10 (48 kgs +/- 4.5)	95-115 lbs (43-52 kgs)
Used	85 lbs +/- 5 (39 kgs +/- 2)	80-90 lbs (36-41 kgs)

Drive Belt Tension Adjustment

Belt tension is adjusted by moving the drive motor position (forward or rearward) in an iterative process until the belt tension meets specification.

4. Remove the drive belt. It is recommended that you walk the belt off the smaller drive motor pulley.
5. Loosen the drive motor mount bolts, slightly move the drive motor either forward or rearward as required to increase or decrease the belt tension. Re-tighten the bolts.
6. Re-install the drive belt. It is recommended that you walk the drive belt onto the larger drive roller pulley.
7. Measure and verify that the belt tension meets the **Tension** specification, see *Drive Belt Tension Specification* table. Note that there is a separate specification for New and Used belt installations:
 - a. If the tension is not within specification, repeat the adjustment process.
 - b. If the tension is within specification, continue procedure.
8. Torque the drive motor mount bolts to 204 in-lbs (17 ft-lbs, 23 N-m).
9. **Plug**  in the power cord and switch the input power ON.
10. Run the treadmill speed at 3 mph for 1 minute.
11. Switch the power OFF and disconnect power.
12. Measure and verify that the tension measurement is within the **Range Limit** specification, see *Drive Belt Tension Specification* table. Note that there is a separate **Range Limit** specification for New and Used belt installations.
 - a. If the belt tension is not within the **Range Limit** specification, repeat the tension adjustment procedure.

b. If the belt tension is within the **Range Limit** specification, continue procedure.

13. Re-install hood.

14. Connect and Switch the input power ON.

15. Verify operation and return to service.

[.See Also](#)

[Adjustment Procedures](#)

[Drive Motor Replacement](#)

[Drive Belt Replacement](#)

Contact Precor [Customer Support](#) (Ph 800.786.8404) with any questions.

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