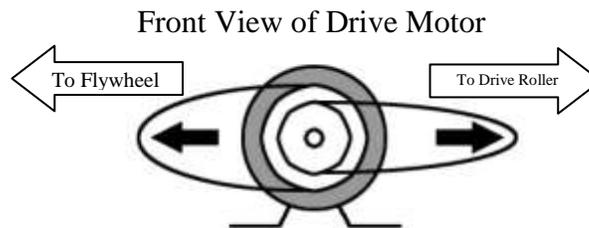


Tuff Tread

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Zero Load Motor Adjusting Belt Tension Properly



Both drive belts must be tensioned as equally as possible!

Whether the drive belts have relaxed and become loose or you have had to replace parts such as a walking belt, drive roller, motor, etc... eventually, the drive belts on your Tuff Tread / Noramco treadmill will need to be adjusted or replaced.

Tuff Tread / Noramco treadmills utilize a zero load configuration that greatly reduces strain on, and increases the life of, the drive motor. The zero load configuration is illustrated in the diagram, above.

Both drive belts need to be tensioned as equally as possible. If either drive belt is tensioned improperly, or continued adjustments are made to one drive belt without checking to ensure that equal tension is maintained, damage may be done to your drive motor. This may include damage to the motor bearings, a bent motor shaft which will create a bad vibration, or even a completely broken motor shaft (which is almost always un-repairable).

The warranty on a Tuff Tread / Noramco treadmill covers defects only, so damage that is done from improper drive belt adjustment is not covered under the manufacturer's warranty.

Please remember these two simple rules to proper drive belt adjustment:

- 1. Only keep the drive belts as tight as is needed to prevent them from slipping.**
- 2. Keep the tension on both drive belts as equal as possible.**

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Drive Belt Replacement For Treadmills with an Idler Pulley SN 501 – 803 and SN 11583 or Higher

After replacing the drive belts in your Tuff Tread / Noramco Fitness treadmill, it is very important to adjust the belts correctly. **An over-tightened drive belt will snap the motor shaft.**

Setting the tension on the drive belts is a two-step process:
First, set the tension on the flywheel belt, then adjust the tension on the drive belt.

Step 1 – Set the Tension on the Flywheel Belt

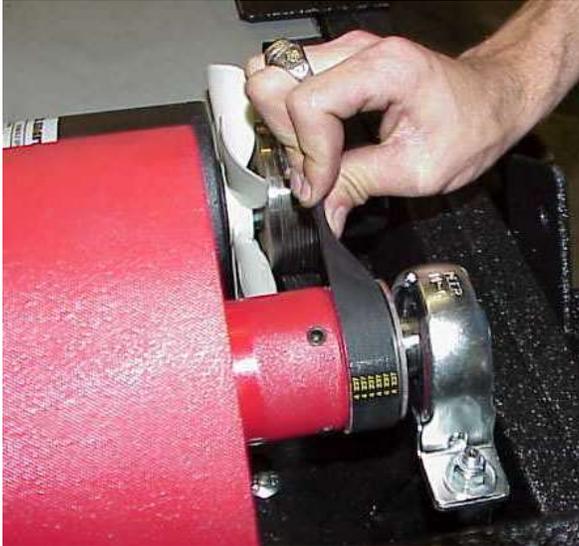
Locate the long tensioning bolt that runs from the front edge of the treadmill to the front edge of the motor pallet. If your treadmill model does not have a tensioning bolt, see the note on page 3.



Use a ½” socket wrench to tighten the tensioning bolt just enough to remove the belt slipping.
Check the tension on the belt that runs from the motor to the flywheel by twisting or wiggling it.
You should be able to twist the belt at least 90 degrees.

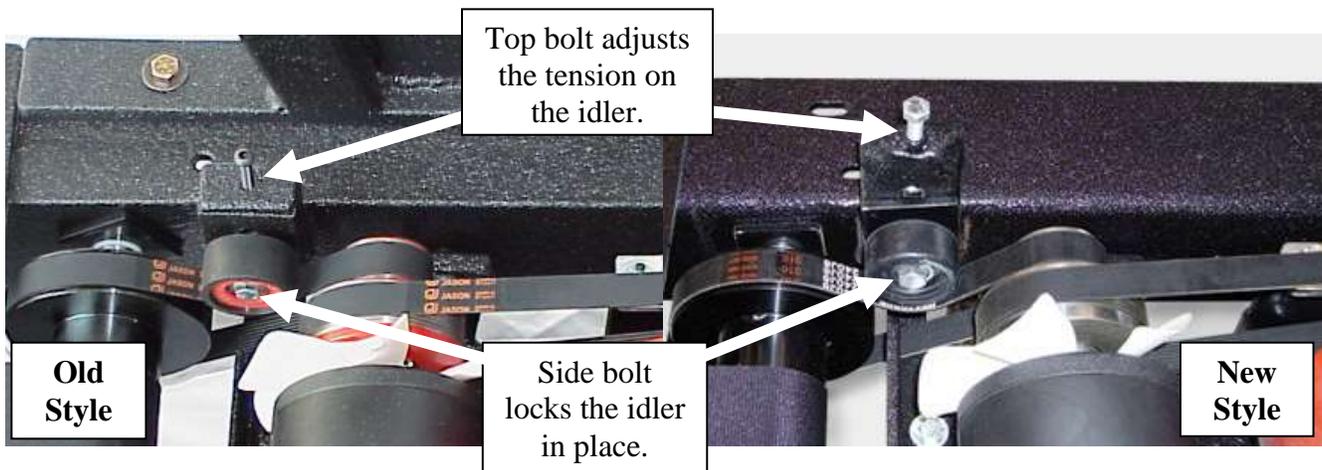
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If you wiggle the belt up and down, there should be at least 1" of play. Be careful not to over-tighten the flywheel belt. **Over-tightening the flywheel belt can cause the motor shaft to snap and void the warranty.**

Step 2 – Set the Motor Belt Tension



- Loosen the bolt that runs through the idler pulley from side to side.
- Make sure the idler roller is completely on top of the drive belt, and that the belt does not stick out from under the roller on either side.

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- Tighten the top bolt just enough to hold the belt in place, then test the tension as follows:
- Plug the treadmill in and start it up.
- Watch the drive belts to **make sure they are running straight and parallel to each other**. Go to the back of the machine and sight down along the foot rail. That is the best way to tell if the belts are parallel. If the belts are not parallel to each other, they can “walk” off of the pulley and tear themselves up. That damage would not be covered under the defective-parts warranty.
- When the belts are straight, walk on the treadmill and attempt to stop the walking belt by throwing your weight into it with each step. If you cannot stop the walking belt this way on the first attempt, the drive belts may be too tight. **An over-tightened drive belt will snap the motor shaft.**
- Loosen the idler roller, using the top bolt, until you can stop the walking belt. Then tighten the idler down a tiny bit at a time just until you can't stop the walking belt. That is the proper belt tension. Tighten the bolt that runs from side to side through the idler roller to lock it into place.
- Adjust the flywheel belt the same way. You want it loose enough to slip at first, then tighten it a little at a time just until the slipping stops.

If there is no tensioning bolt:

The motor and flywheel are still bolted down with 8 bolts through the bottom of the motor pallet, but your treadmill will have an idler roller on top of the belt that runs from the motor shaft to the drive roller. Also, your treadmill will not have the long tensioning bolt in the front. Instead, you will have a hole in the pallet by the edge of the flywheel base that you will put a screwdriver or pry bar into to pull the flywheel towards the front of the pallet.