

Running Belt Tension and Tracking

E Series Treadmills

Proper running belt tension and tracking are important to maintain the performance and life of the belt. Star Trac recommends following this tensioning and tracking procedure whenever the running belt or deck are replaced or as needed.

Symptoms of a Loose Running Belt

- The running belts slips on the headroller
- The running belt is tracking to the left or right

Symptom of a Tight Running Belt

- Running belt is lifting on the sides
- Check Motor System/increased amp draw (with 80 or 800 DFR code)
- Premature running belt failure (ripping at the seams)
- Premature roller bearing failure.

Time Required

- 10 minutes

Parts Required

- Masking tape
- Ruler or tape measurer
- Pen or pencil

Tools Required

- 1/4" Allen wrench

Tightening A Running Belt



Fig. 1

Step 1

Release tension of running belt by unscrewing the tension screws until the roller touches the fingerguard. The belt should be completely relaxed. *Note: This applies to both left & right fingerguards.*

Maintenance Tip



Fig. 2

Step 2

Apply a piece of masking tape on the edge of the running belt on both sides.

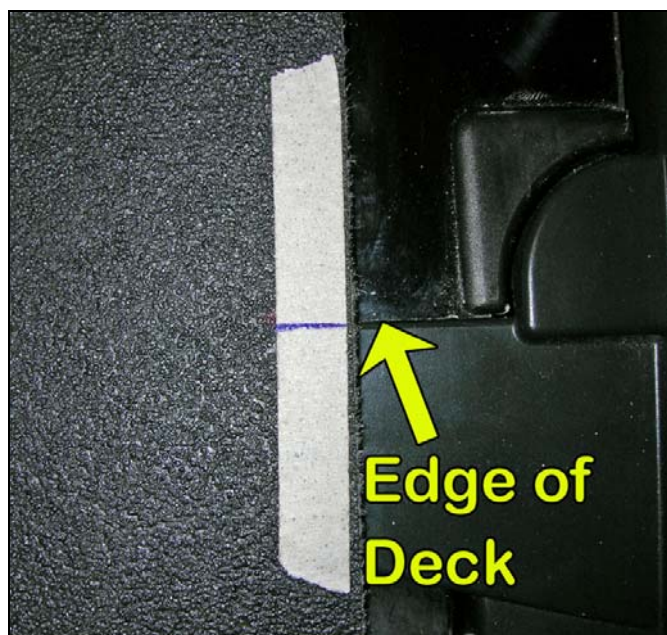


Fig. 3

Step 3

Draw a line on each piece of masking tape aligned with the edge of the deck. *Note: Be careful not to move the belt or roller while drawing the lines.*



Fig. 4

Check to make sure that both lines are aligned with the edge of the deck at the same point.

Maintenance Tip

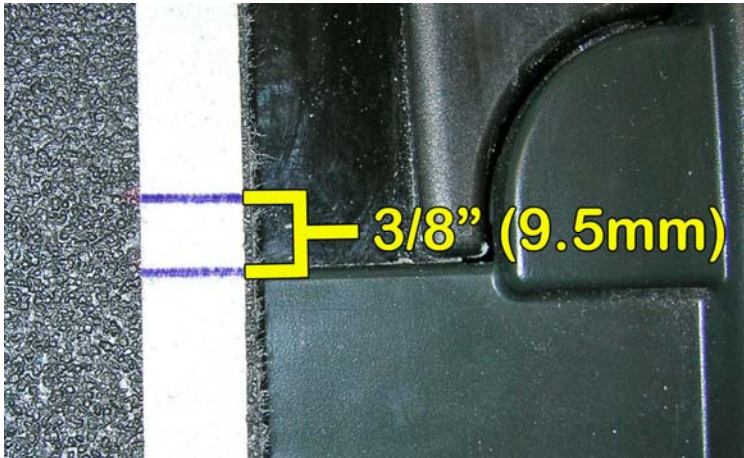


Fig 5

Step 4

Using a ruler or tape measure, draw a line on each piece of tape parallel to each first line at a distance of $\frac{3}{8}$ " (9.5mm) from each first line. (See Fig 5)

Step 5

You are now ready to begin tensioning the belt. Before beginning, make sure the line on each piece of tape closest to the tail roller is aligned with the edge of the deck on each side. (See Fig 5)

Step 6

Using the $\frac{1}{4}$ " Allen wrench begin tightening the tensioning screws (Fig. 1). You will tighten (or stretch) the run belt until the forward lines on the tape are aligned with the edge of the deck.

Be careful to ensure the tail roller does not turn while you are stretching the belt. If the tail roller turns while you are stretching the belt, start the procedure over. If the tail roller turns while stretching the belt you will not obtain proper tension.

When finished, remove the tape from the running belt.

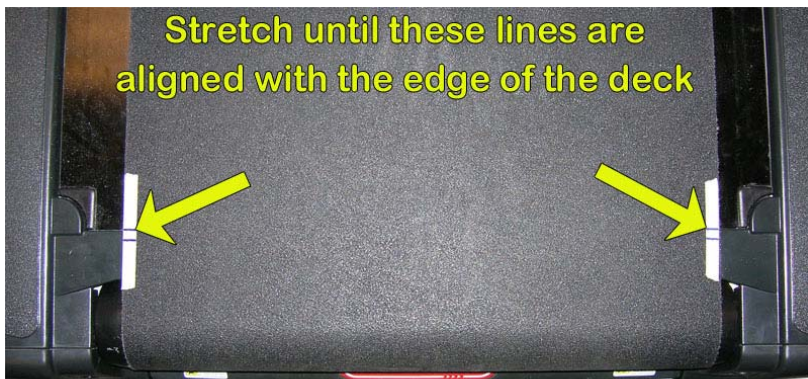


Fig 6

Running Belt Alignment

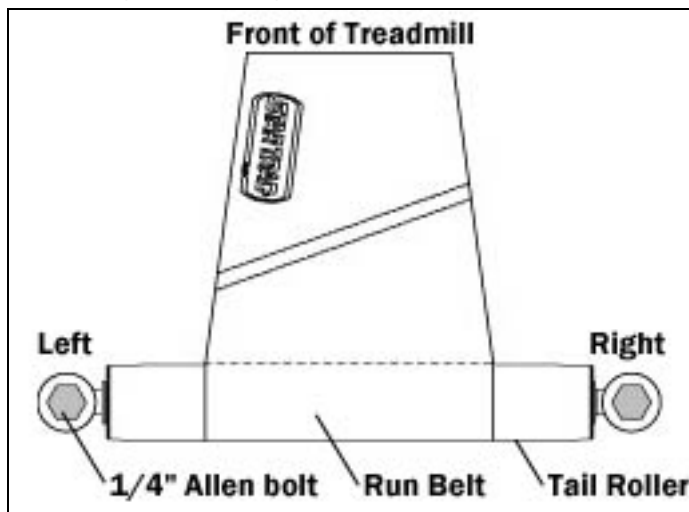
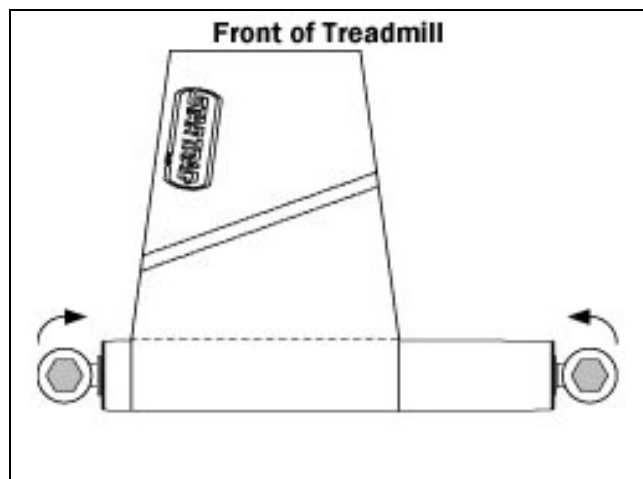


Fig. 7

Step 1

Start the treadmill and set the speed to 3.0 mph (5.0 kph). Make sure the running belt tracks to the center (Fig. 7).

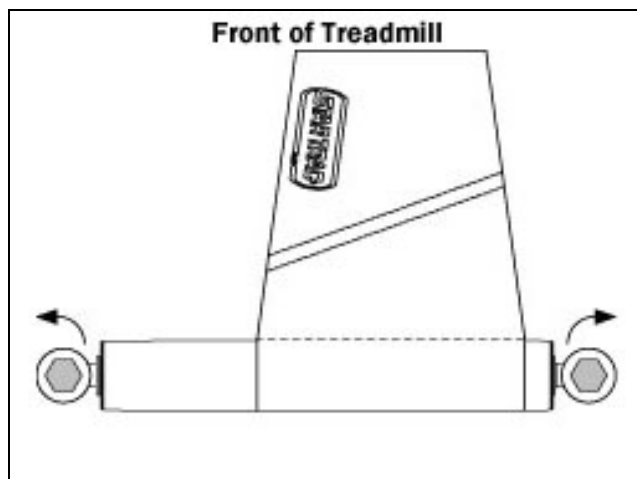
If the running belt shifts or tracks to either side (left or right), follow the appropriate procedure below.



If the belt tracks to the LEFT side:

Turn the LEFT bolt ¼ turn clockwise

Turn the RIGHT bolt ¼ turn counter-clockwise



If the belt tracks to the RIGHT side:

Turn the LEFT bolt ¼ turn counter-clockwise

Turn the RIGHT bolt ¼ turn clockwise

Repeat above steps until the running belt tracks in the center

Note that the above drawings are not to scale and have been exaggerated to better show an offset tracking.