

L70 & 80 SERIES TREADBELT / DECK / IMPACT ABSORBER INSTALLATION INSTRUCTIONS

INTRODUCTION

This document is used for replacing a Treadbelt, Deck and/or Impact Absorbers on machines manufactured 10/2006 to present.

When a Treadbelt is replaced:

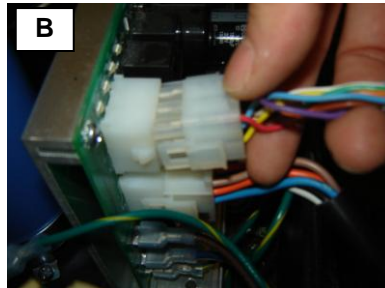
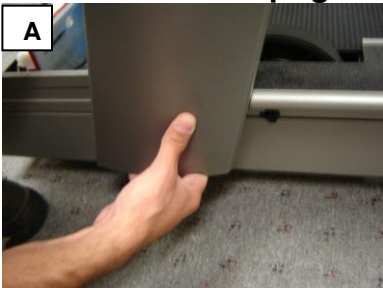
- Check if the Impact Absorbers (#70221 black/ #70221-R red) are damaged/worn. Replace if necessary.
- The deck is to be flipped (if it has not been flipped) or replaced if it has been flipped.
 - If replacing **only** the **Absorbers** – **DO NOT** flip the deck.

TOOLS REQUIRED

- Power drill with #2 Phillips Head Bit. (Required to remove frame rail screws.)
- 3/8", 7/16", 1/2", 9/16" standard sockets
- 3/8" ratchet w/ 2" extension
- Rubber Mallet
- Vice grips (locking pliers)
- Lubriplate Grease (Landice item #71061)

ACTIVITY/PROCESS

1. Remove the Bed End Cap Screws on both sides of the treadmill.
2. Turn treadmill on and elevate to 15% grade.
3. **UNPLUG TREADMILL**
4. Remove motor cover.
5. **Remove the Upright**



- a) Remove the upright frame covers by pulling outwards from the bottom of the cover. (**Figure A**)
 - b) Disconnect the main harness and ground wire from lower board. (**Figure B**)
 - c) Loosen all 8 (4 on each side) upright bolts using a 7/16" socket and 3/8" ratchet with 2" extension. (**Figure C**)
- Note:** You do not need to completely remove these bolts from the frame.
- d) Lift upright assembly UP and OFF.

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6. Removing Left & Right Frame Rail Cover



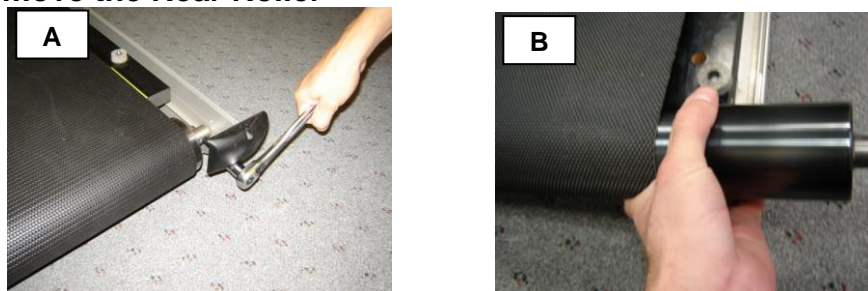
- Using a power screw gun with a #2 Phillips head bit, remove all 4 Phillips head screws on each side. (**Figure A**)
- Using a rubber mallet, lightly tap the bottom of the frame rail in an upward direction. (**Figure B**)
- Lift up on the side frame cover to remove it. (**Figure C**)

7. Remove the Drive Belt



- Using a 7/16" deep well socket, remove the motor tensioning nut. (**Figure A**)
- Pull the motor towards the rear of the machine with one hand. Use your other hand to twist the drive belt and rotate it forward so it comes off the flywheel. (**Figure B**)

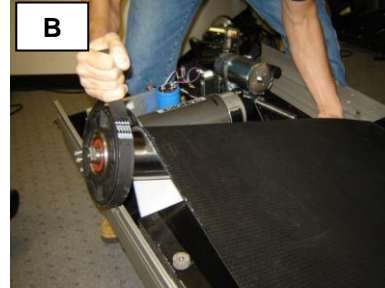
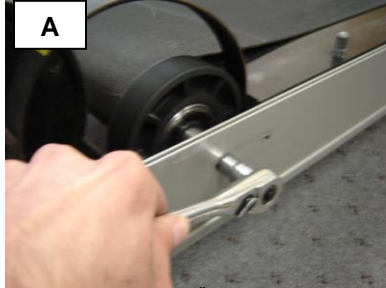
8. Remove the Rear Roller



- Using a 9/16" socket and ratchet, remove the rear-take up bolt on each side of the machine. (**Figure A**)
- Grab the roller with your hand, angle it and slide it out from inside the treadbelt. (**Figure B**)

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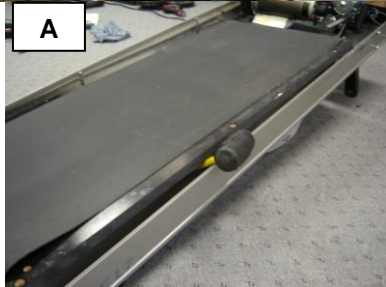
9. Remove the Front (Drive) Roller



- a) Using a 1/2" socket w/ ratchet remove the front roller bolts. Front roller bolts are located on the right & left side of front roller. (**Figure A**)
- b) Angle the roller and slide the front roller out from inside the treadbelt (**Figure B**)

SERVICE TIP: Have the drive belt wrapped around the drive roller pulley and use it as a handle to remove the front roller.

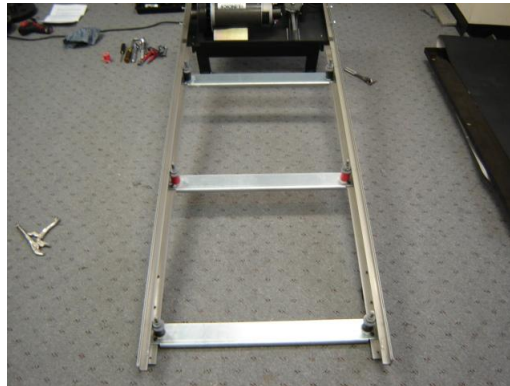
10. Lift the Deck out of the Treadmill Frame Assembly



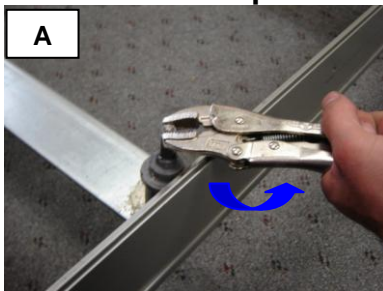
- a) Remove the felt washers. L7 have 6 thick felt washers that fit on top of the deck with 2 additional white felt washers on the front deck post. L8's use 8 thick felt washers.
- b) Place the handle of a rubber mallet between the deck and frame. (**Figure A**)
When working by yourself, this will keep the deck free from the deck posts on one side.
- c) Go to opposite side and lift the deck out of the frame assembly. (**Figure B**)
- d) Slide the treadbelt over the deck to remove it.

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The picture below is of a fully disassembled treadmill.



11. Remove the Impact Absorbers



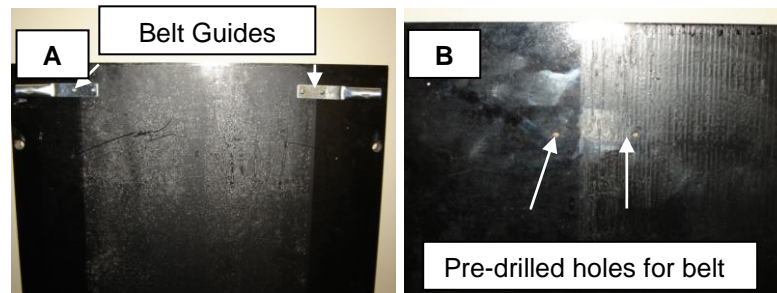
- a) Using vice grips (locking pliers) lock them around the tip of the deck post. Turn the pliers *counterclockwise* to remove the deck post. (**Figure A**)
- b) Slide the deck post out of the impact absorber and load washer. (**Figure B**)
- c) **For L8 & L9 Machines** - slide the load washer and impact absorber off the deck post. Using vice grips, lock them around the tip of the deck post. Turn them *counterclockwise* to remove the deck post. (**Figure C**)

NOTE: The deck post will not slide out of the nylon spacer. Both parts will come off at once when the deck post is completely loose. You will need to remove this assembly to lubricate the bottom of the nylon spacer (Refer to Step #13 for details.)

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12. Flipping (Reversing) the Deck

Note: All Landice Decks are reversible and should ONLY be reversed when replacing the Treadbelt.



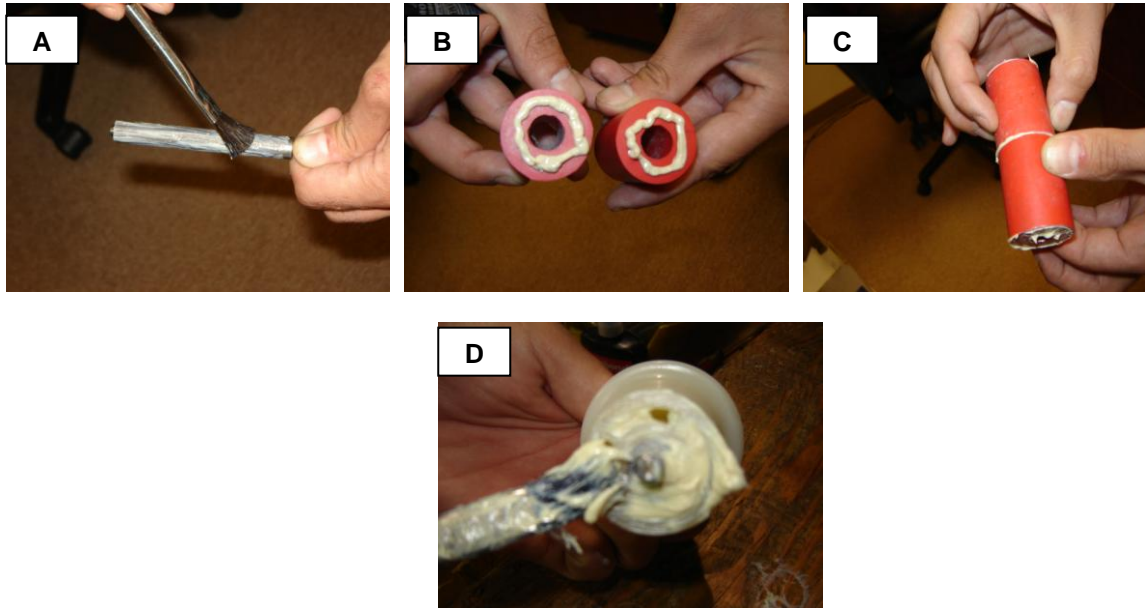
- Remove the belt guides from the “*current*” side of the deck. Using the 2 Screws from each guide removed, re-install the belt guides on the “*new*” fresh deck surface. (**Figure A**)
- The belt guide holes are pre-drilled. (**Figure B**) Use these holes to mount the belt guides onto the fresh deck surface. Make sure belt guides are in front when reinstalling the deck. If the deck has already been reversed then install a new deck with a new treadbelt.

DO NOT FLIP THE DECK if you are replacing only the ABSORBERS.

NEW IMPACT ABSORBERS should always be installed when replacing the Treadbelt.

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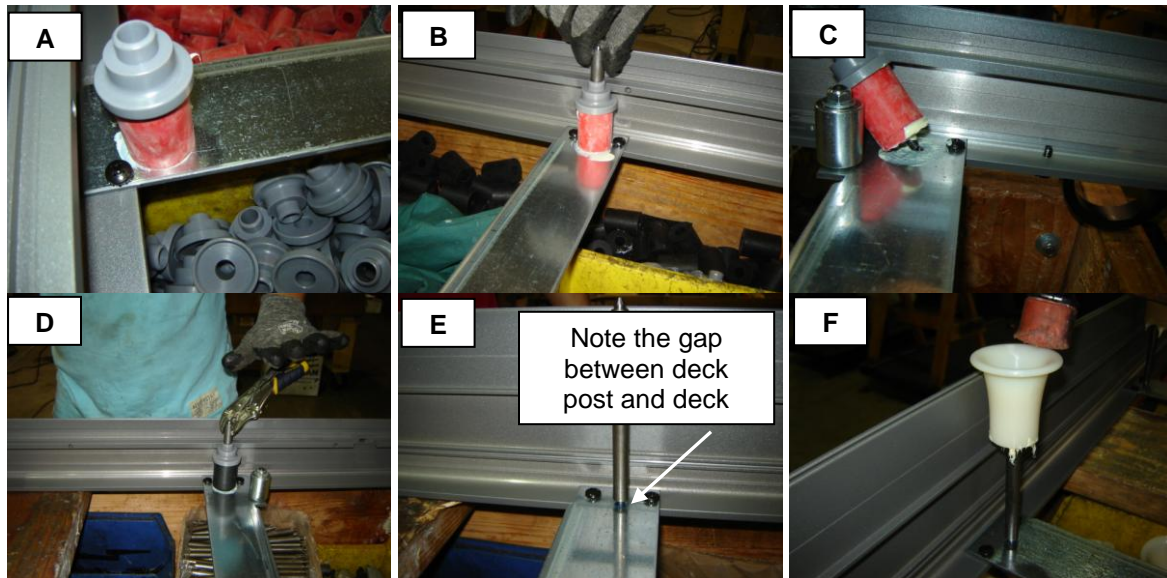
13. Lubricating VFX components



- 1) Use Lubriplate (white lithium) grease (Landice item #71061) and a small brush to apply the grease on the deck post. Make sure the grease is applied around the whole deck post. (**Figure A**)
- 2) Place the Lubriplate grease on the top of each absorber. (**Figure B**)
- 3) Place the end of the absorber *without* the grease to meet the other absorber *with* grease. Rub them together. Repeat this step for the other side. (**Figure C**)
- 4) **For L8/L9 Machines;** place some Lubriplate (white lithium) grease on the bottom of each nylon spacer. (**Figure D**)

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14. Reinstalling VFX Components



- a) Place all absorbers and load washers at each end of each deck slat (**Figure A**)
- b) Slide the deck post through the load washer and impact absorber (**Figure B**)
- c) Tilt the deck post, load washer and impact absorber to align the deck post to the threads in the deck slat. (**Figure C**) Thread the deck post by hand to get it started.
- d) Use a pair of vice grips or locking pliers, grip the tip of the deck post, angling the handle the pliers upwards (**Figure D**).
- e) Turn the vice grips **clockwise** to snug the deck post down. Once the deck post is snug, give an additional 1/4 turn to fully tighten.
- f) **For L8/L9 Machines:**
Thread the deck post by hand to get it started. Do Not tighten to the point that the post meets the slat. (**Figure E**)
- g) Slide a nylon spacer on the post. Using a rubber mallet, tap it all the way down the post. (**Figure F**) Using the locking pliers, tighten the deck post all the way down.

INSTALL A FULL SET OF NEW IMPACT ABSORBERS

Reverse steps 1 thru 10 on the previous pages when putting the treadmill back together.

- h) Once the unit is back together – follow the instructions for “Treadbelt Tensioning” and “Treadbelt Tracking”.

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Tensioning the Treadbelt and Drive Belt

Need for tension is indicated by uneven belt speed and may be sensed by sudden stopping of the treadbelt when your foot comes down on the belt.

TREADBELT Tensioning: To tension the treadbelt, use the same hex head bolts as were used for tracking below.

- 1) Turn screws on both sides of the roller *clockwise* the same amount.
 - Failure to turn them equally will affect the treadbelt tracking.
 - Before tightening the treadbelt, assure that the treadbelt tension is loose and not the drive belt (Refer to Drive Belt Tensioning below).

DO NOT OVERTIGHTEN THE TREADBELT.

If you cannot slide the palm of your hand between the Treadbelt and the deck to the center of the treadbelt, **the Treadbelt Is Too Tight** and tension must be relieved.

DRIVE BELT Tensioning: The drive belt tensioning nut is located on the drive motor bracket.

- 1) Turn the nut clockwise which will pull down the motor bracket, thus tightening the drive belt. **DO NOT OVER TIGHTEN!** If you over tighten this belt you risk damaging the drive motor shaft.
- 2) To determine if the drive belt is tensioned properly Landice recommends:
 - Tighten the tensioning hook until the hook stops jiggling.
 - Tighten the tension nut 1 & ½ turns.

TREADBELT Tracking: The Treadbelt is tracked by means of two hex head adjustment bolts located at rear of treadmill. By tightening the side the belt is tracking closest to and loosening the opposite side by the same amount, you change the alignment of the rear roller without changing overall tension.

- Adjustments should be made with treadmill running, and should be made in 1/4-turn increments. Allow at least 30 seconds for treadbelt to stabilize between each adjustment. Perform the adjustments at slower speeds (2-3 mph) until you are comfortable making adjustments. Faster speeds will cause the adjustments to take effect quicker (5-6 mph).

Example: Treadbelt is tracking to the right:

- a) Turn treadmill on, and bring speed up to 4.0 mph.
- b) Using a 9/16" wrench, tighten the right-hand adjustment bolt 1/4" turn.
- c) Loosen the left-hand adjustment bolt 1/4" turn.
- d) Let Treadbelt stabilize (rotate for 30 seconds) and readjust if necessary.

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Treadbelt and Deck break-in procedures: The new deck surface has a powder coat of wax. This melts into the treadbelt and mixes with the slip coat to complete the lubrication process when a new treadbelt is installed.

- 1) To break in the wax:
 - Turn the machine on
 - Set speed window to 1 mph
 - Set elevation to 5% grade

- 2) Start at the right rear of machine and walk in a zig-zag pattern moving up and down the running surface for 10 minutes to break in the deck wax. The customer can do this after everything is assembled.

DO NOT RUN THE MACHINE AT HIGH SPEEDS until deck wax is broken in. Running unit at high speeds may result in circuit breakers tripping, hesitation in speed and wax build up on both rollers.