



Belt Technology at its Best LLC

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Owners Manual: Service, Maintenance and Troubleshooting.

WARNING: KEEP ALL SHIELDS IN PLACE AT ALL TIMES!

WARNING: DO NOT SIT, STAND, OR RIDE ON THE CONVEYOR AT ANY TIME!

WARNING: LOCK OUT ALL POWER WHEN SERVICING THE CONVEYOR!

WARNING: LOCK OUT POWER AND KEEP CHILDREN AWAY FROM THE CONVEYOR SYSTEM WHEN IN USE OR NOT IN USE!

IMPORTANT: GRAINWAY'S CONVEYOR SYSTEM IS TO NOT BE TOWED BY ANY MOTORIZED VEHICLE!

IMPORTANT: IF GRAINWAY'S CONVEYOR SYSTEM IS GOING TO BE USED IN AN APPLICATION OUTSIDE OF THE GRAIN BIN, MAKE SURE THE PROPER COVERS ARE IN PLACE TO COVER THE EXPOSED BELT.

Service/ Maintenance/ Trouble Shooting:

Belt Tension: When starting the conveyor, the conveyor belt should not hesitate but instead take off instantly. If conveyor belt does not take off instantly, tighten conveyor belt 1/2" at a time before rechecking. If slipping still occurs, check motor belts for proper tension and make sure the conveyor belt is tracking properly.

Flat Conveyor Tightener Bracket:



Incline Conveyor Tightener Bracket:



Belt Tracking: When the conveyor is running (WITH EXTREME CAUTION) check the tracking of the conveyor belt on the drive roller and on the belt take up roller (conveyor diagram on the following page). If the belt is not tracking center, adjust the belt take up roller side to side to center the belt tracking. If tracking does not improve this means the conveyor is not sitting level or that the drive roller is not running level or even with the idler roller behind the drive roller. If the drive roller needs to be adjusted loosen the conveyor belt and both flange bearings bolt on each side of the conveyor. The drive roller needs to be running in line with the idler roller behind the drive roller. With the bolts running through the flange bearings loose with a hammer hit the flanges forward or back to make adjustment. The flange bearings will only move 1/8 -1/4" each but is enough to correct the drive roller tracking problem. Once drive roller is parallel and in line with idler retighten flange bolts and conveyor belt. When properly adjusted the belt tightener will adjusted evenly on each side.

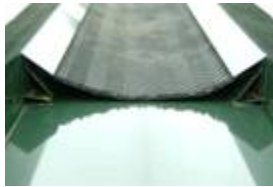
Belt Appearance: Check belt and steel splice for tears and/or wearing.

Replacing the Conveyor Belt: Make sure the belt splice is just below the drive roller. Then lock out power to the conveyor. Next remove the bottom front cover (behind the drive roller). Then loosen the conveyor belt. Take out the idler roller just behind the drive roller. Remove the small 1/8" clip off of one end of the Alligator belt splice. Then pull out the cable. The Alligator splice may be set into the cable. If so, pry the Alligator splice off of the cable.

If new belt is on hand, join the old belt splice to the new belt splice. Then pull until the new belt is through and in place. Then join the two new ends of the belt together by installing the cable into the Alligator splice. Put the 1/8" clips on each end of the cable and clamp tight. Next, with a punch and hammer set the splice into the cable in two places. Then finish by reinstalling the idler roller, tightening the conveyor belt and installing the front bottom cover back in place.

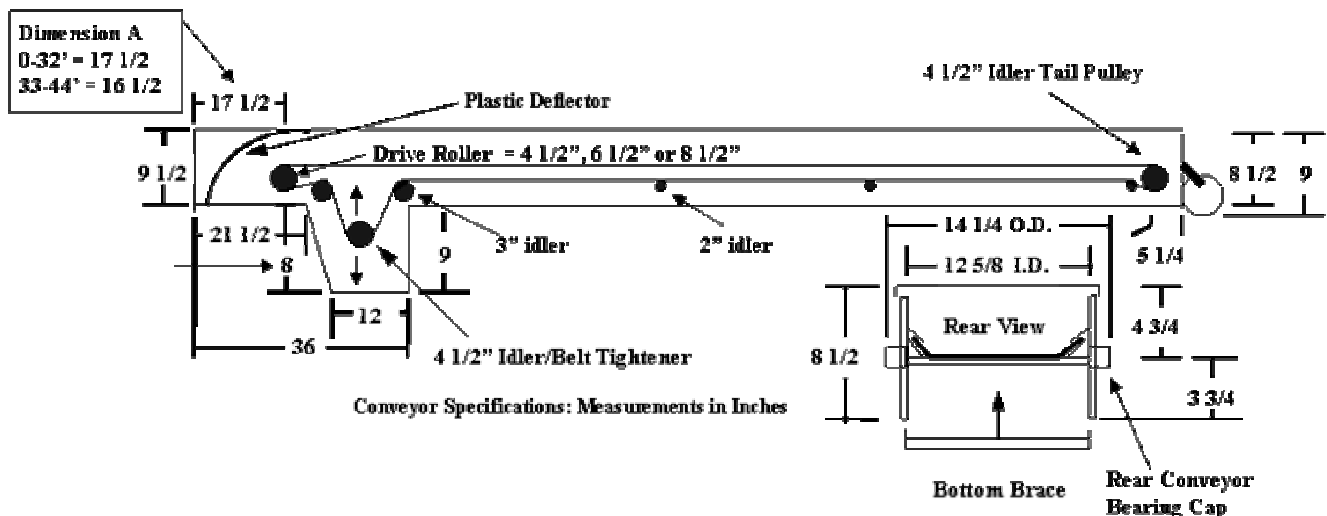
Rodents: Protect your open top conveyors from rodent damage by applying “Mouse Out” that can be purchased in an aerosol can. Simply spray “Mouse Out” on the edges of the conveyor belt several times a year to help prevent rodent damage. It is recommended on open top incline conveyors to remove them from the grain bin into alternative storage and then applying “Mouse Out” on the belt. Call GrainWay to purchase “Mouse Out”.

Guide Rails: Check conveyor guide rails to ensure they are not pinching the conveyor belt and/or have any physical damage. A spacing of about 1/8” to 1/4” should be between the belt and guide rails.

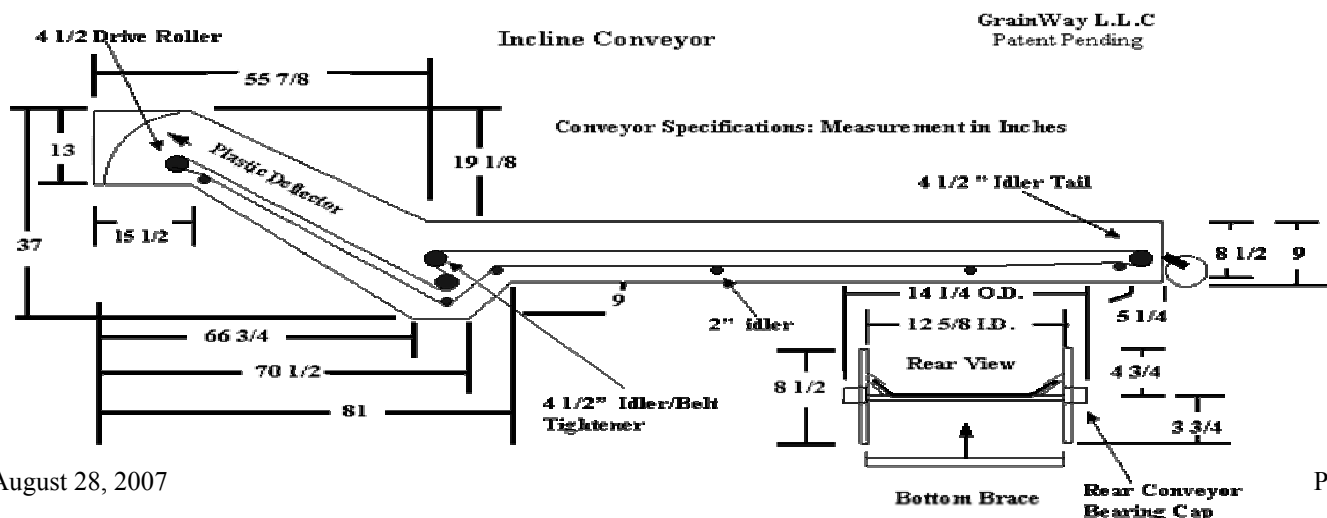


Idler Rollers: GrainWay’s flat conveyors have 2, 3 and 4.5” idler rollers. The incline has 2 and 4.5” idler rollers. If belt is ever taken out of conveyor, free spin all the rollers and check for bearing failure. If roller replacement is needed, the 2 and 3” idler rollers are bolted in through the side walls of the conveyor. Simply unscrew the bolt out of each end of the idler roller and drop out of the conveyor. If the 4.5” idler needs to be replaced, the conveyor will need to be split 1-2’ on each side of the roller to allow enough room for the roller to be taken out.

Flat Conveyor Dimensions and Roller Placement



Incline Conveyor Dimensions and Roller Placement



Lubrication: All GrainWay idler rollers have internal precision bearings and do not require lubrication. The drive roller with flange bearings also do not require any lubrication.

Inspection Doors: In Figure 1 an expanded metal screen is shown on the bottom of the flat conveyor. When ever running the conveyor, make sure the cover as shown in Figure 3 is removed. This will allow fines or dust that may accumulate to drop through the screen out of the conveyor.

It is important that these doors are taken off frequently or left off during operation to prevent any possible dust buildup.

Flat Conveyor Inspection Doors

Figure 1



Figure 2



Figure 3



Incline Conveyor Inspection Door

Figure 4

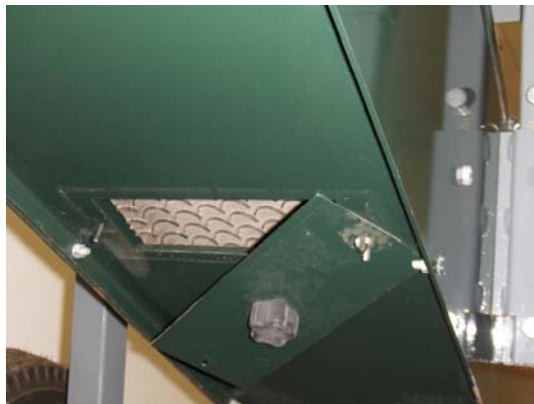


Figure 5



Contact GrainWay at 319-347-6361 with any further service, maintenance or troubleshooting questions.