Installation Manual
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Section 1 - Important Information

1.1 General Introduction

We at Conveyors Plus are very pleased that you have selected the patented Sure Align Tracker for your conveyor system.

This manual will help you to understand the installation, operation and maintenance of this product and assist you in making it work up to its maximum efficiency over its lifetime of service.

It is essential for safe and efficient operation that the information and guidelines presented be properly understood and implemented. This manual will provide safety precautions, installation instructions, maintenance procedures and troubleshooting tips. In addition, please follow all standard, approved safety guidelines when working on your conveyor.

If, however, you have any questions or problems that are not covered, please visit our web site or contact us at:

Web site: Conveyorsplus.ca

Toll-free: 1-888-WE-ALIGN (1-888-932-5446)

Please read this manual thoroughly and pass it on to any others who will be directly responsible for installation, operation and maintenance of this product. We have tried to make the installation and service tasks as easy and simple as possible; this product does however require correct installation and regular inspection and maintenance to maintain top working condition.

1.2 User Benefits

Belt misalignment is a common problem that produces various problems, ranging from belt and structure damage to product spillage and safety issues. By utilizing the Sure Align-Tracker, it is possible to correct a belt that is misaligned and causing these problems. Multiple units may be required depending on the length of the misaligned belt.
Section 3 - Pre-installation Checks and Information

3.1 Checklist

- Survey conveyor belt and identify problem areas.
- Check for obstructions such as cable trays, piping and conveyor supports that are installed along the conveyor frame. These obstructions might interfere with the install or operation of the Sure Align Tracker.
- Check the Sure Align-Tracker shipment to ensure that all the components listed are included.
- Review the “Tools Needed” section below.
- Lock out and test belt before any work is performed.
- Prepare to install the Sure Align Tracker at the problem area.

3.2 Sure Align Tracker Components

- Left hand pivoting member
- Right hand pivoting member
- Rubber steering roller
- Crosslink assembly with two adjustable guide roller
- Mounting bracket

3.3 Tools Needed

Regular Duty Sure-Align Tracker

- Belt Jack
- 12 ″ crescent wrench
- ½ impact, 1 1/8, 15/16, and 3/4 sockets.
- Square
- 1 1/8, 3/4, and 15/16 wrenches
- Hammer
- Grease gun

Heavy Duty Sure-Align Tracker

- All tools required for regular duty Sure-Align Tracker
- 1 1/2” socket and a 1 1/2” box-end wrench
Section 4 - Installation

4.1 Safety Considerations and Precautions

Before installing and operating the Sure Align-Tracker, it is important to review and understand the following safety information and warnings.

**WARNING!**

Use Personal Protective Equipment (PPE):
- Safety eyewear
- Hardhats
- Safety footwear

PPE must be worn to control the foreseeable hazards associated with conveyor belt components. Serious injuries can be avoided.

**DANGER!**

Every belt conveyor is an in-running nip hazard. Never touch or prod an operating impact bed. Conveyor hazards cause instantaneous amputation and entrapment.

**WARNING!**

Lock out and test belt before any work is performed.
4.2 Installation Process

4.2.1 Visual Example:

*Installation Video*
4.2.2 Step by Step Instructions

1. Remove the return roller at the identified problem area.

2. The Sure Align Tracker replaces the existing return roller. In cases where more tension is required, leave the return rollers in place and install the mounting bracket between the existing return rollers, *(new bolt holes will be required.)* Be sure not to apply too much tension and to follow all instructions outlined in steps 7 through 14.

<table>
<thead>
<tr>
<th>Center to Center Measurements for Bolting Mounting Bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>18” belt - 27”CTC</td>
</tr>
<tr>
<td>20” belt - 29”CTC</td>
</tr>
<tr>
<td>24” belt - 33”CTC</td>
</tr>
<tr>
<td>30” belt - 39”CTC</td>
</tr>
<tr>
<td>36” belt - 45”CTC</td>
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<tr>
<td>42” belt - 51”CTC</td>
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<td>48” belt - 57”CTC</td>
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<td>54” belt - 63”CTC</td>
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<tr>
<td>60” belt - 69”CTC</td>
</tr>
<tr>
<td>72” belt - 81”CTC</td>
</tr>
<tr>
<td>84” belt - 93”CTC</td>
</tr>
<tr>
<td>96” belt - 105”CTC</td>
</tr>
</tbody>
</table>

3. Bolt the mounting bracket to the conveyor frame. There are 4 predrilled holes in the mounting bracket. The 2 inside holes are used to bolt the mounting bracket to the conveyor frame. The two outside holes are used to install the pivoting members.

4. The mounting bracket must be installed perpendicular *(90 degree angle)* to the conveyor frame and must have the same distance on each side extending out past the conveyor frame. A square should be used to square the mounting bracket to the conveyor frame.

5. Install both pivoting members to the outside hole provided in the mounting bracket. Both pivot members must be tightened before installing the roller.

6. Ensure the arrow on the pivoting member is pointing in the direction of return belt travel. Ensure the Sure Align Tracker is installed in the proper direction; the guide rollers must touch the oncoming conveyor belt after the steering roller.

**IMPORTANT!**
Ensure the Sure Align Tracker is installed in the proper direction; the guide rollers **must** touch the oncoming conveyor belt after the steering roller.
7. Utilizing a belt jack to push the belt down a maximum of 2-3 inches to provide sufficient tension and space, slide the rubber steering roller on the top of the return side of the belt and insert tracking roller shaft end into the pivoting member bushings. There is a flat spot on the roller shaft that is used to prevent the shaft from rotating in the bushing. This flat spot must be positioned at the bottom when inserting the shaft into the bushing. A pin in the bushing prevents the shaft from rotating.

8. Swing both pivoting members in the same direction to allow room to install the steering roller. Line up and insert the rubber steering roller shaft into the second pivoting member bushing. Adjust the belt jack to push down on the belt to line up the shaft to the bushing.

9. Install the cross link assembly to join the 2 pivoting members. Use the 1/2” bolts provided to bolt the cross link to the pivoting members. Do not over tighten the bolts as this may restrict the movement of the crosslink. If necessary, the height of the guide rollers can be adjusted so the belt runs in the middle of the guide roller.

10. After the installation has been completed, measure the distance from the mounting bracket to the existing return brackets (front and back). The measurements from the mounting bracket to each front return bracket should be equal, while the measurements from the mounting bracket to each back return bracket should be equal. This will ensure that the return rollers in front and back are square to the Tracker and the conveyor frame.

**IMPORTANT!**

The mounting bracket must be square to the conveyor frame and proper tension must be provided to achieve the maximum performance of the Sure–Align Tracker.
11. Push the cross link back and forth to ensure that the Sure Align Tracker has enough tension between the belt and the rubber steering roller. It should be quite difficult to move. One guide roller must be removed to allow clearance to move the crosslink.

NOTE: If there is too much tension, spacer blocks should be installed on the return brackets before and after the tracker install. Installing the spacers between the conveyor frame and return brackets will lower the belt reducing tension on the tracker.

ATTENTION!
Conveyors Plus must be consulted prior to undertaking any additional tension changes to the Sure align Tracker.

12. Grease all fittings provided.

13. Remove locks and test system.

14. The Sure-Align Tracker installation is complete.

NOTE: Completion of the SAT Design Questionnaire is required! The information provided will enable Conveyors Plus to identify necessary changes or recommendations regarding the install. These will then be passed on to the customer.