



SAFE CONVEYOR, INC.

**Adjustable & Straight Incline Conveyors
Owners Manual with Operating Instructions**



Safe Conveyor Inc. 1658 GAR Hwy Ste 2, Swansea MA 02777
For more information, please visit our website at safeconveyor.com

Revision 012211

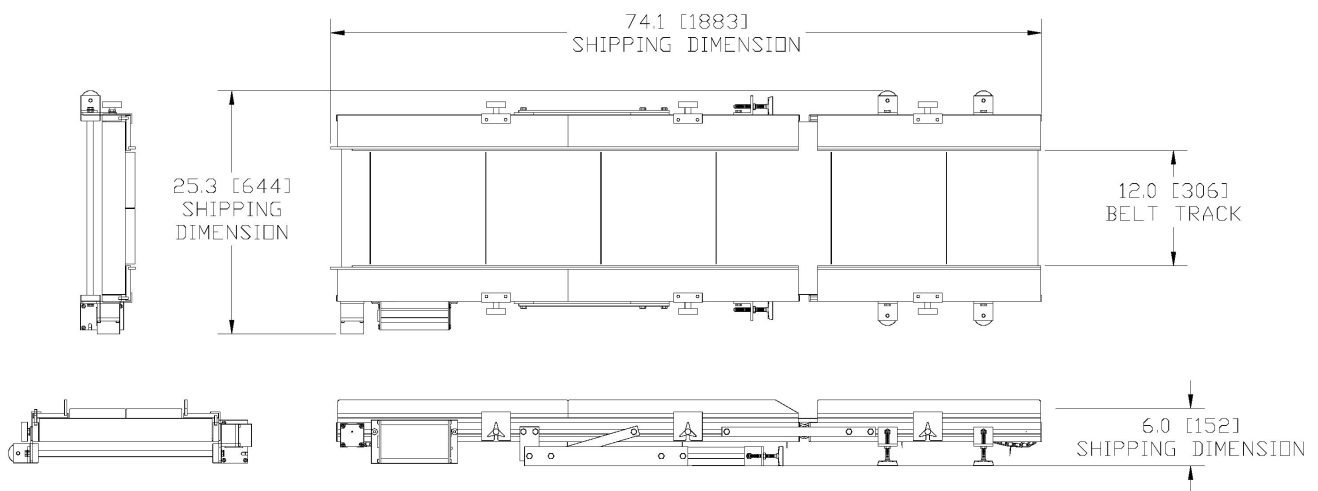
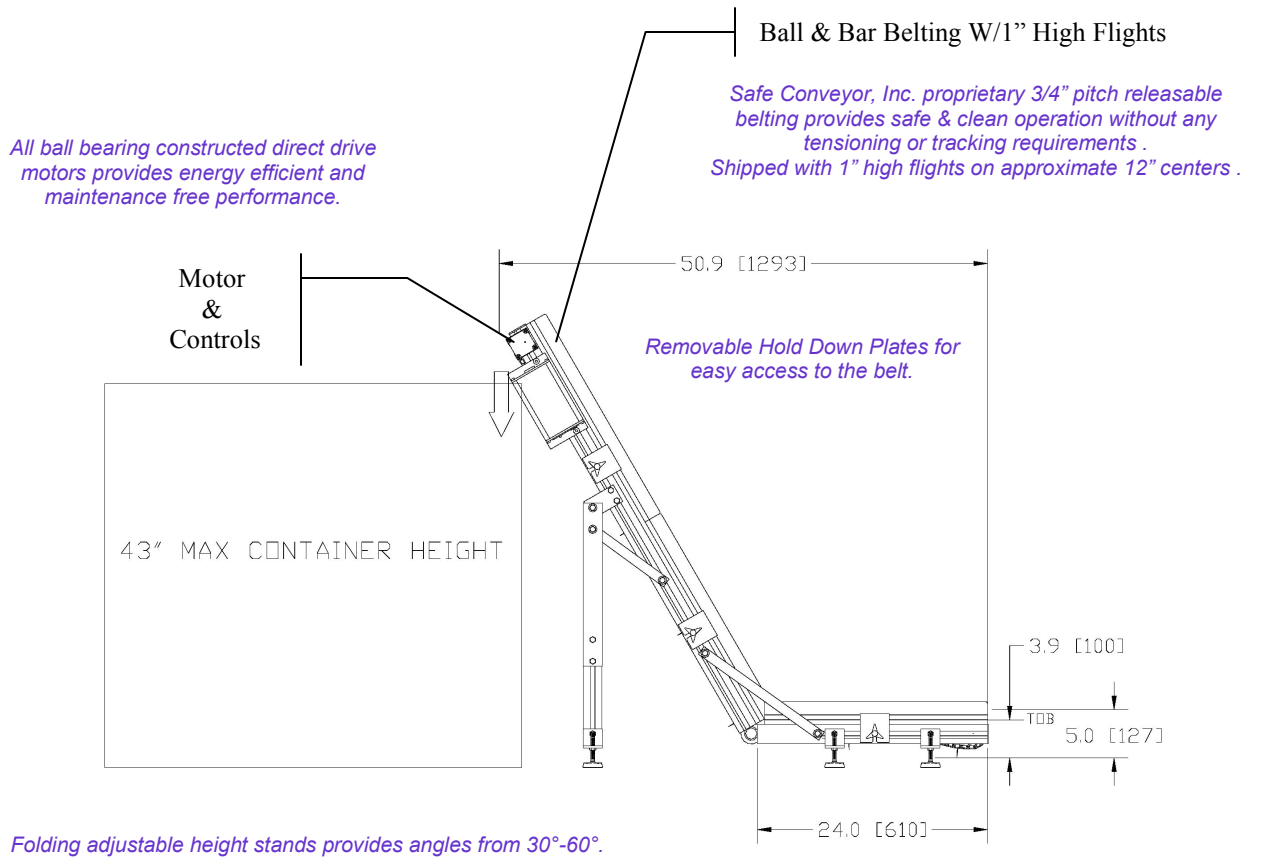


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Conveyor Features Folding Angle Incline Conveyor



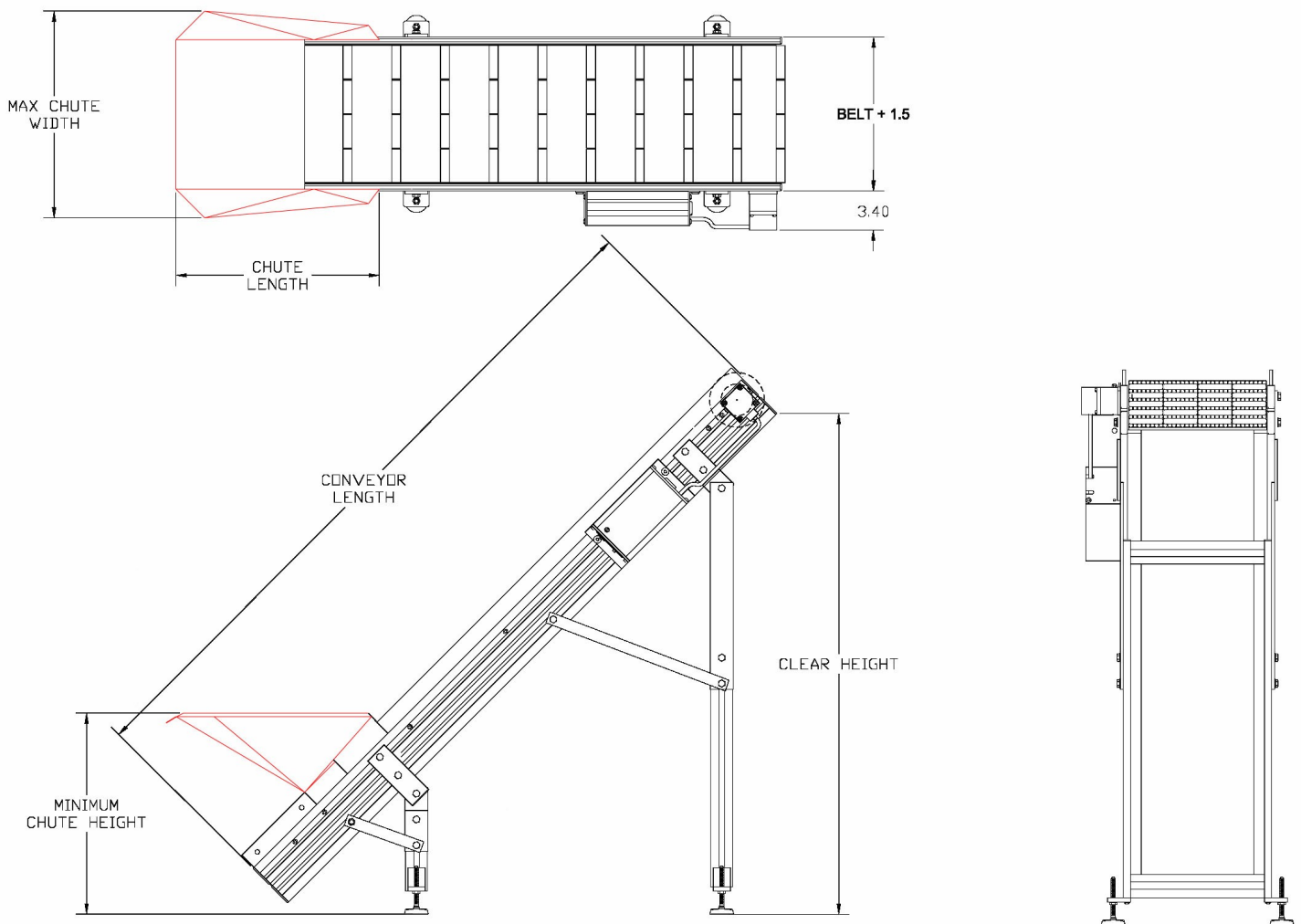
Note: Subtract 6" from width dimensions listed for 6" Belt Track model.

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Conveyor Features Straight Incline Conveyor

*Same features as Adjustable Folding Angle conveyor with the addition of optional Load Chute.
Unit folds flat for UPS shipping in most sizes.*



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Getting started

Be safe! Read, understand and follow these precautions.

Use the correct power source.

Safe Conveyors have a three prong plug and must be plugged into a grounded three-hole outlet. The voltage source should be within 10% of what is printed on the control panel.

Do not operate the conveyor in an explosive or wet environment.

Safe Conveyors are designed for indoor operation only.

Remove power before servicing.

Safe Conveyors come with a removable power cord. Lock-out the power by removing the cord before servicing.

Replace damaged components before operating.

If the conveyor becomes damaged, do not operate until the damage is repaired. Continued operation with damage could lead to injuries and/or permanent damage to other conveyor components.

Do not stand or sit on the conveyor.

Standing or sitting on the conveyor is dangerous, especially if it is moving or suddenly starts. To avoid injuries from tipping over the conveyor, bolt the stands leveler mounts to the floor through the holes provided.

Keep hands away from the moving belt or other pinch points.

Safe Conveyor motors are the smallest and safest in the industry, but can still cause injury when hands come in contact with moving parts. The motor, if stalled, will continue to operate for approximately 10 seconds before the safety circuitry shuts it off.

To avoid pinch points, keep transfer plates and belt guard rails installed when operating.

Do not overload the conveyor.

Safe Conveyor are rated to hold up to 200 lbs static load between stand supports. Do not exceed this amount.

Inspect your system regularly.

Screws and fasteners can become loose during operation. Regularly inspect and repair any loose or missing fasteners.

Conveyors manufactured by Safe Conveyor Inc. are shipped with this owners manual.

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Setting up the Incline Conveyors

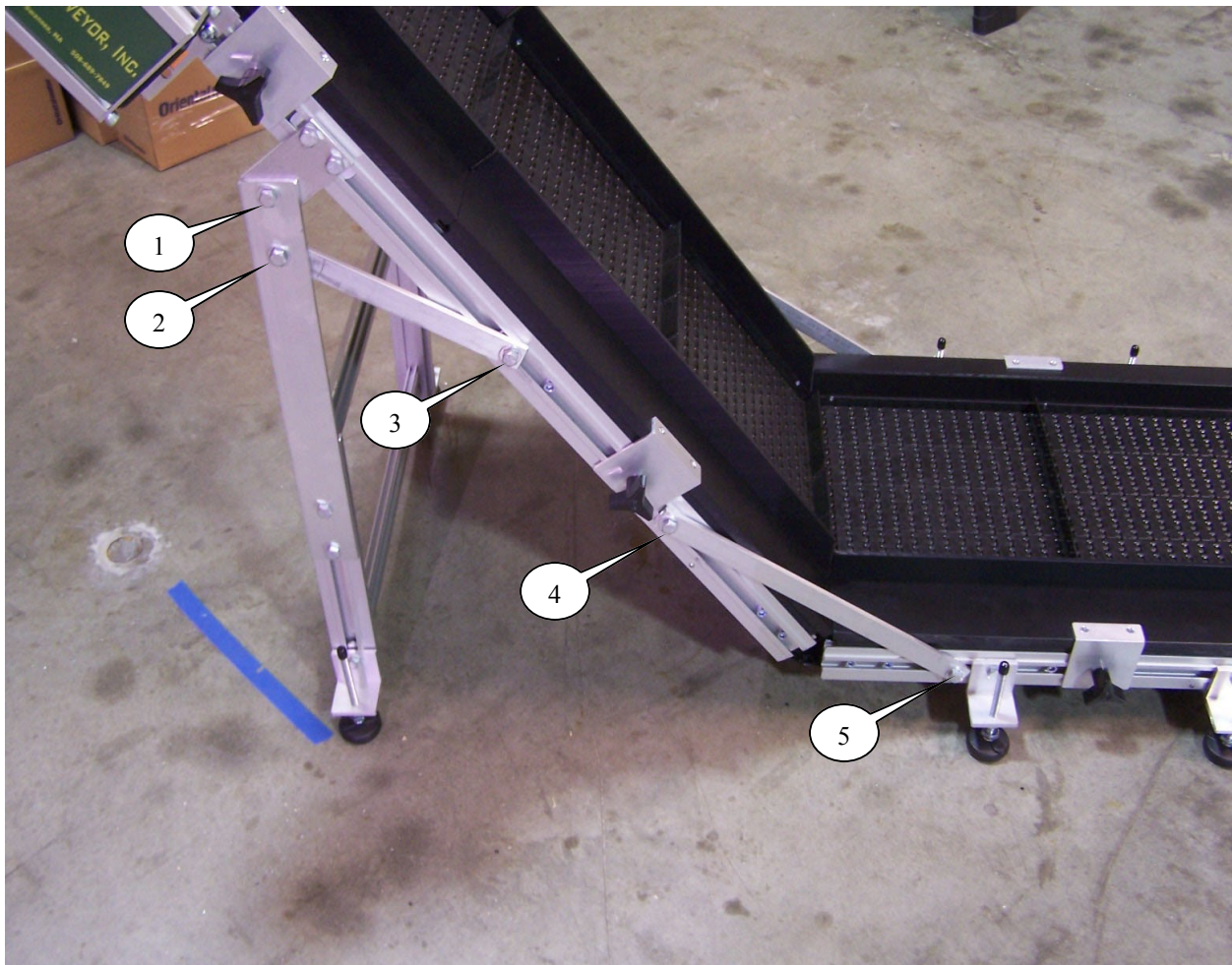
The incline conveyor was adjusted to a flat position for shipping and needs to be re-adjusted for operation. Please follow these directions for installation.

1. Carefully unload the conveyor from the box or crate and set on a flat surface right side up.
2. Remove any packing material from the unit.
3. Loosen all pivoting bolts, as shown below, by turning each bolts 1/2 turn.
4. Repeat loosening of the bolts on the opposite side of the conveyor.
5. With the help of an assistant, lift the drive end up and rotate the stand outward until it is near vertical.
6. Repeat for lower stand if necessary until height is acceptable.
7. To adjust the height, have someone hold the drive end up while someone else adjusts the height of the unit by extending or shorting the stand height. (Tilt the stand forward at an angle for heights that are lower than can be set on the stand adjustment.)
8. Lock all pivot bolts on each side once the desired height is achieved.

Setting for Adjustable Folding Incline Gap in Hold Down Plates.

1. The unit was shipped with the Hold Down Plates adjusted to 60 degrees. Lower angles will produce a gap between the Hold Down Plates and should be adjusted to close the gap.
2. Close any gap between the Hold Down Plates by loosening the Knobs and sliding the plates closer.
3. If you find the belt fighting with Hold Down Plates at the transition from horizontal to the incline, adjust the plates in or out to get the belt to turn smoothly.

See Page 8 for Operating Instructions.



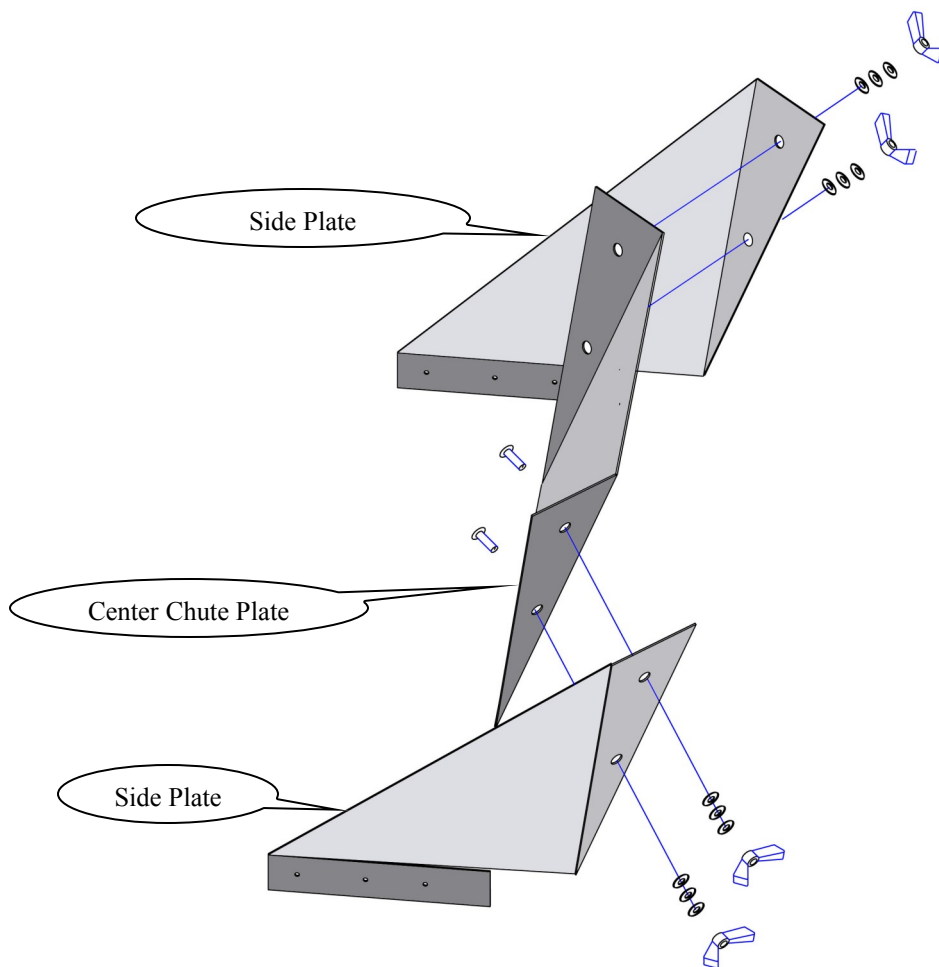
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Installing optional chute

The chute was disassembled for shipping and can be quickly re-assembled without tools.

1. Attach outer side plates to center chute plate with bolts and wing nuts as shown. (Note: 3 washers are required per bolt/nut assembly.)
2. Attach the unit to the conveyor guard rails with screws provided such that the chute opening is flush with the lower belt cover.



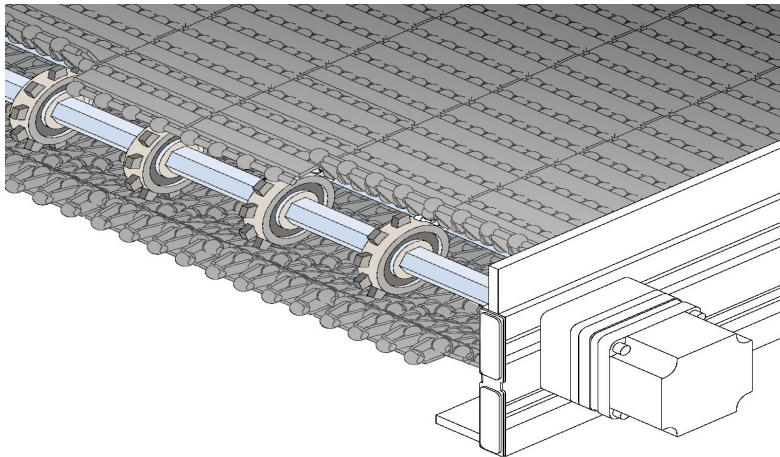


Belt Removal

1. Remove Belt hold down plates by loosening hand knobs located on the sideframes. Plates slide upward for easy removal. Note: It is not necessary to remove the Knobs, just loosen them.
2. With guides removed, you can remove the conveyor belting by pulling upward on the leading row as you hold down on the row behind it. The belt will “unzip” as the hooks slip off the bars.

Replacing Belt

1. Orientate the belt to drive with the “Bar” ends first and the “Ball” hook ends trailing like shown in the figure below. Although the belt will run in either direction, it is less likely to be “peeled” open when run as shown.
2. Start at the top and thread the belt down the back side making sure that the belt is inside the lower support plates.
3. At the bottom corner, pull the belt across to the infeed section making sure it is inside the lower support plates.
4. Feed the belt over the bottom idler aligning sprockets with underside of belt as shown and on to the top of the conveyor.
5. Pull the rest of the belt up to the top drive shaft and bring the ends together. The ends should just reach each other without excessive tension. If the belt is very loose, remove rows of belt until the belt is just snug on the conveyor. See below
6. One sprocket is locked for belt location. Adjust the remaining sprocket so they are evenly spaced apart from each other and will engage the underside of the belt as shown. Don't place the sprockets at the joints between belt links. (Use a 1/6 Hex key wrench to adjust the locked sprocket if the belt is not centered on frame after assembly.)
7. Snap the hooks over the bars making sure they are fully engaged with each other. It may help to move the joined connection to the flat part of the conveyor to complete the joining of the hooks.





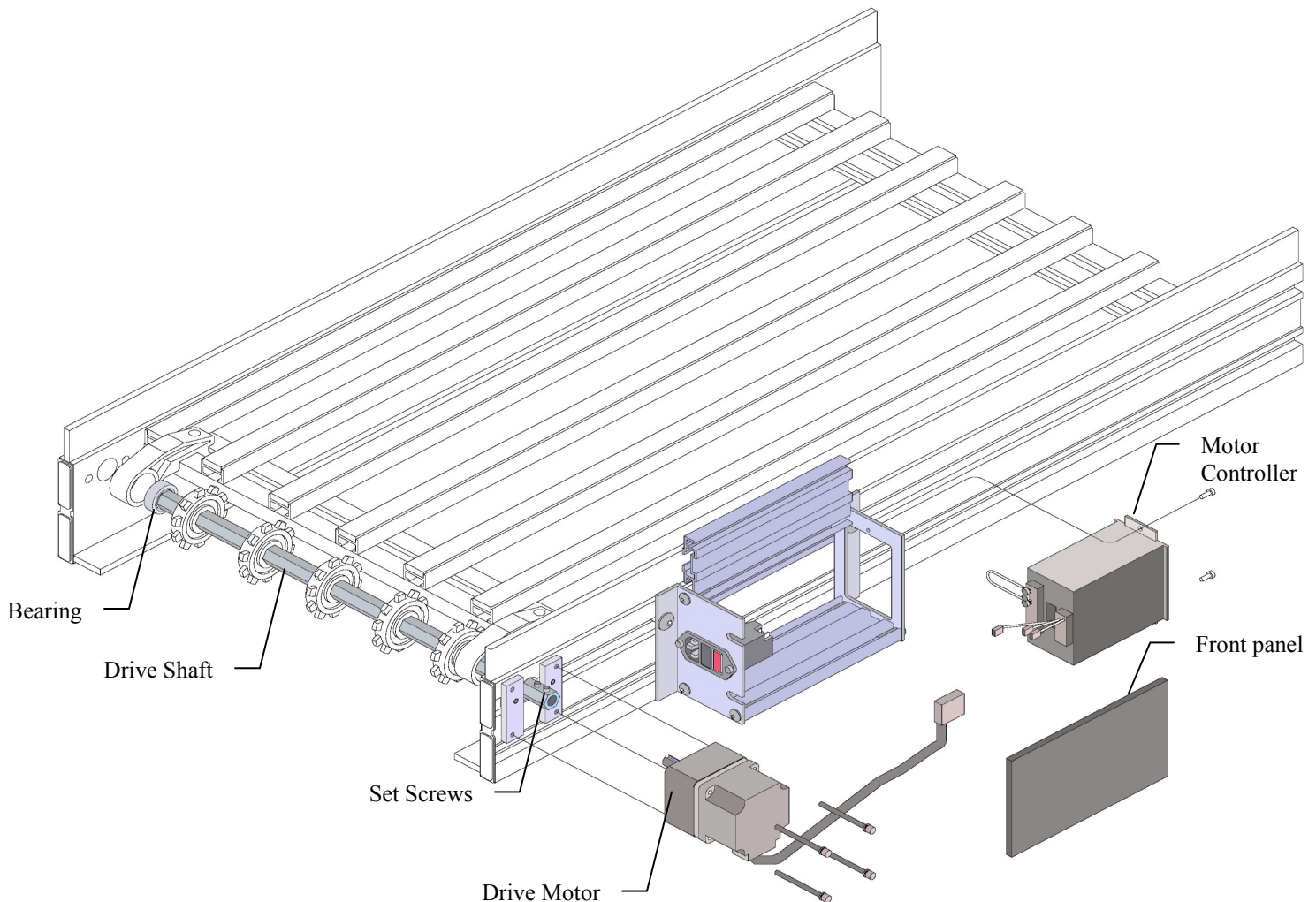
Motor Removal or Replacement

Should you need to remove the motor or switch the location, please follow these instructions.

Note: Tampering with Drive Motor or Motor Controller Assembly will void warranty.

1. Remove the power cord from the switched outlet on the motor control box.
2. To gain access inside the motor control box, **remove the top screw holding the motor controller.** Rotate the top aluminum panel upward.
3. Disconnect the motor cable from the back of the controller and remove the 3 wires connected to the power outlet. Remove the lower screw on the controller and this will allow you to slide the controller out of the mounting panel.
4. To remove the motor, remove the 4 screws located midway on the motor housing. Grasp the opposite bearing housing and pull the ball bearing and shaft assembly toward the motor. This will allow the shaft to move outward with the motor to expose the 2 set screws holding the drive shaft to the motor. Loosen the set screws on the drive shaft to remove the motor with a 5/64 hex key wrench.
5. Repeat these steps to install a new motor.

Note: To change belt rotation direction, switch the white wire connector to either CCW or CW.





Operating Instructions.

Once you have completed the set-up instructions on page 5, it is a good time to test your system to insure that it is working correctly.

Plug in the power cord and activate the on switch. The motor controller also has an indicator light that glows green when the power is on.

Note: The controller also has a red light that glows when the motor's safety shut-off has activated the internal alarm. Should this light go on, simply turn off the power and wait until the red light goes out. Restart the conveyor. If the light comes back on, please contact the factory.

With the power on, push the slide switch on the controller to the run position and adjust the orange dial to set the speed. The motor should run and the belt should move smoothly. If there are any noticeable jerking or erratic motion of the belt, make sure the belt is properly installed and that there are no objects obstructing the belt motion inside the conveyor. The sprockets are self-tracking and there is no need for any tensioning adjustments.

To insure safe operation, make sure the power cord is not in harms way. The conveyor stands have levelers with holes for bolting. Secure the conveyor to the floor to keep it from being accidentally tipped over.

Trouble Shooting.

Should the conveyor not operate, please perform the following tests before contacting the factory.

1. **Verify that the power source is active.** The light on the controller should glow when on. If the light will not go on, remove the power cord to gain access to the fuse holder. Remove the fuse holder with a small flat blade screw driver. The fuse holder contains a replacement fuse. If the fuse is blown, replace it with the spare fuse. Reinstall and turn on the power. If the fuse blows a second time, the motor and controller should be replaced. Warrantee information is on page 12.
2. **Check the drive shaft set screws.** If the motor is rotating, but the belt is not being driven by the drive shaft, check the set screws on the drive shaft or coupling for tightness. If missing or loose, tighten or replace with same size screws. (Either 10-32 or 8-32 thread depending on drive size.
3. **Check the alarm light.** If the red light of the motor controller is on, this indicates the motor was overloaded and stopped. Once overloaded for more than 10 second, the motor is shut off and the alarm light is activated. To reset the system, turn off the power switch and wait for the light to go off before restarting.

Note: Tampering with Drive Motor or Motor Controller Assembly will void warranty.

Maintenance

- Periodically clean the inside and outside of the conveyor with standard household cleaners recommended for kitchen counter application. Remove the belt and shake out any loose debris. Remove any material accumulated or "wound-up" on the drive as part of the interior cleaning.
- Check for loose or missing hardware and replace as required.



Warranty and Liability

Safe Conveyor, Inc. (the Company) warrants to the first end user Buyer that the Products and Parts thereof, when shipped, will be free from defects in materials comprising the same and in the Company's workmanship for a period of 2 years from date of shipment. If any such defects exist or later appear, the Company shall undertake, at its sole expense, prompt remedial action as stated herein to correct the same; provided however, that the Company shall have no obligation or liability under this Warranty unless it shall have received written notice specifying such defect no later than two (2) years from the date of shipment. Remedial action under this Warranty shall require only that the Company, at its option, repair or modify the Products or Parts thereof, replace the same F.O.B. Swansea, MA, or accept the return of the Products or Parts thereof by Buyer and refund the purchase price.

Products, or Parts thereof, manufactured by others are warranted hereunder only to the extent of such manufacturer's warranty to the Company.

Since after shipment, the Products and Parts thereof are under the sole control of Buyer, this Warranty is subject to, and shall be applicable only if, the following conditions are met:

- A. The Company's instructions as to installation, operation and maintenance have been followed;
- B. The Products and Parts thereof have been used under normal operating conditions or under such conditions as hereinbefore specified by the Company, or specified by the Buyer and agreed to in writing by the Company;
- C. The Products and Parts thereof have been properly erected, installed, operated and maintained and have not been affected by misuse, neglect or accident;
- D. The Buyer has not attempted or performed corrective work or change on the Products and/or Parts thereof without the Company's prior written consent as to the nature and expense thereof;
- E. The company shall have received notice of any defect no later than thirty (30) days after the Buyer first had knowledge of the same; and
- F. Within the Warranty period and after prior authorization from the Company, the Products and/or Parts are shipped freight prepaid to the Company at 1658 GAR Hwy Ste 2, Swansea, MA 02777.

THE FOREGOING WARRANTY IS IN SUBSTITUTION FOR, AND IN LIEU OF, ANY AND ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

LIMITATION OF LIABILITY

THE COMPANY SHALL HAVE NO LIABILITY WHATSOEVER IN ANY EVENT FOR PAYMENT OF ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, DAMAGES FOR INJURY TO ANY PERSON OR PROPERTY. BY ACCEPTING THE PRODUCTS AND/OR PARTS THEREOF, THE FIRST END USER BUYER OR SUBSEQUENT USER AGREES THAT THE COMPANY SHALL NOT BE LIABLE FOR INDEMNIFICATION OR CONTRIBUTION (IN WHOLE OR IN PART) EITHER EXPRESSLY OR BY IMPLICATION.

IF FOR ANY REASON ANY OF THE FOREGOING PROVISIONS SHALL BE INEFFECTIVE, THE COMPANY'S LIABILITY FOR DAMAGES ARISING OUT OF ITS MANUFACTURE OR SALE OF ITS PRODUCTS OR PARTS, OR USE THEREOF, WHETHER SUCH LIABILITY IS BASED ON WARRANTY, CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL NOT IN ANY EVENT EXCEED THE FULL PURCHASE PRICE OF SUCH PRODUCTS AND PARTS THEREOF.

Any action against the Company based upon any liability or obligation arising hereunder or under any law applicable to the sale or its Products or Parts thereof, or the use thereof, must be commenced within one (1) year after the cause of such action arises.