



Incline Conveyor

Model Numbers SLI-1206, SLI-1208, SLI-1806, SLI-1808,
SLH-2406, SLI-2408

IMS # 165047, 165048, 165049, 165050,
165051, 165052

INSTRUCTION MANUAL

For operation: reference controller manual



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Table of Contents

Safety Overview.....3

Specifications.....5

Description.....6

Installation.....6

Maintenance.....11

Replacement Parts.....13

Notes and Maintenance Record.....15

Safety Overview

This manual uses the following signal words to call attention to the safety sign and to designate a degree or level of hazard seriousness.

1. **DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.
2. **WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
3. **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. Also used to alert against unsafe practices or property damage only accidents.
4. **NOTE:** Indicates general safe practices, machine use instructions and information, property damage only hazards, temporary hazards, precautions to avoid a hazard, results of not avoiding a hazard, or any combination of these messages.
5. **SYMBOL/PICTORIAL:** Conveys a message without words.
6. **SAFETY ALERT SYMBOL:** Indicates a potential personal injury hazard; an exclamation point inside a triangle.



Safety Overview (continued)

The following are general safety alerts that **apply specifically to this product and are to be followed for the safe and efficient operation of this machine**. They are listed here to alert the operator before using the product in any capacity, and to serve as an example of the safety alerts used in this manual.

CAUTION

Keep the guards in place at all times

Do **NOT** operate if the guards are missing or removed

Do **NOT** modify or use makeshift parts on this machine

Changes made to this machine could cause **DAMAGE** or **INJURY**



Specifications

Motor Power.....1/3 Hp

Motor Power Source.....115/60/1 VAC

Belt Temperature Rating.....160 °F

Materials:

Cleated Belt.....White Polyurethane

Frame.....Powder Coated Steel

Part DeflectorAluminized Steel (3" Height)

Rollers.....2-1/2" OD

Casters.....2" or 3" Swivel

Power Cord.....8 ft

Description

Thank you for purchasing an IMS incline conveyor. IMS conveyors are designed to increase the efficiency of your molding process by providing a durable and portable solution for moving materials. The warranty for your horizontal conveyor is 2 years.

Installation

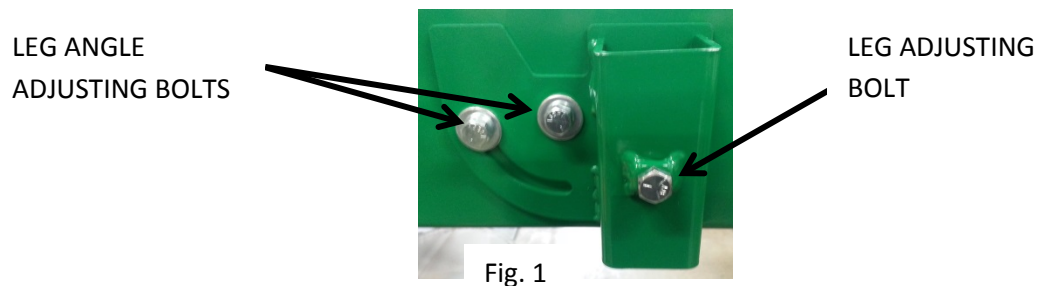
1. Unpacking

- a. Inspect the shipping crate for damage. If you find any damage to the shipping container, contact the carrier immediately and document the damage, including pictures and save the packaging.
- b. Uncrate the conveyor by deconstructing the crate and removing the four (4) shipping brackets that mount the conveyor to the crate, using a Philips head screw driver. After removing the shipping brackets, you may discard the brackets and proceed to remove the rest of the packaging material. Next, check the shipped parts for any damage. If you find any damage to the conveyor and/or its parts, contact the carrier immediately and document the damage, including pictures. You may also contact IMS at 1-800-537-5375 for assistance.
- c. If you have ensured that no damage was sustained during shipment, you may begin to remove the included parts from the container, and move the conveyor itself to an open location for assembly (this will likely require two people).

Installation (continued)

2. Assembly of the Legs to the Conveyor Body

- a. Begin by placing the conveyor on a large flat surface, or hold it in a position that is easy to attach the legs (this will likely require two people). It is a good idea to perform this assembly in an open area with ample space to maneuver the conveyor.
- b. To install the legs on the conveyor, use a $\frac{1}{2}$ " wrench to loosen each leg adjusting bolt from the leg brackets on all four corners on the side of the conveyor (See Fig. 1).

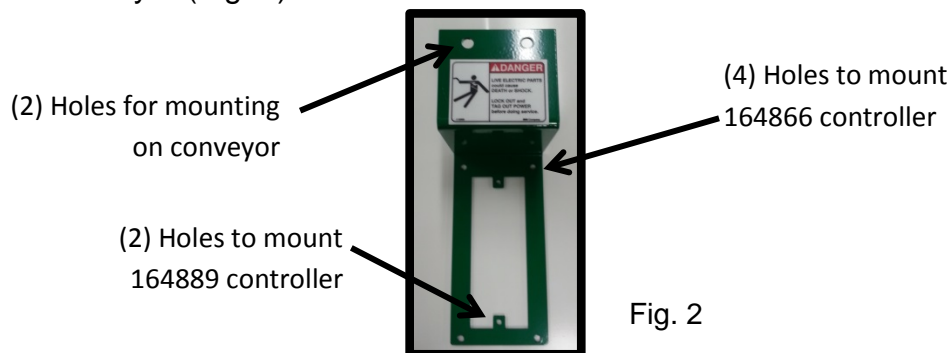


- c. Then, locate the short leg and insert each leg end into the leg brackets opposite the motor end of the conveyor and tighten the leg adjusting bolt (See Fig. 1). Locate the long leg and insert each leg end into the leg brackets on the motor end of the conveyor and tighten the leg adjusting bolt (See Fig. 1). You may adjust the height by loosening the bolt and adjusting the leg to the desired height. Use the same hex wrench to tighten all four bolts, making sure that each leg is at an equal height and is perpendicular to the floor to ensure the conveyor is stable.
- d. To adjust the angle of the conveyor, use a $\frac{1}{2}$ " hex wrench to loosen the two angle adjustment bolts (See Fig. 1), that hold each leg bracket to the conveyor, and adjust the angle of the legs to achieve the desired conveyor angle. Once you have reached the desired angle, tighten the angle bolt in the curved slot to lock the bracket in place. Beware, however, that changing the angle of one of the legs will create the need to change the height and/or angle of the other leg (in order to achieve the desired incline).

- e. After the legs have been attached, setup the conveyor so that it is upright and its casters are contacting the floor. Use the casters to roll the conveyor into its desired location, and once the controller is mounted, you can lock them by pushing down on the protruding tab to ensure that the conveyor will remain in place. Note that the operational location of the conveyor should be within 8 feet of a power source so that the power cord will reach the source.

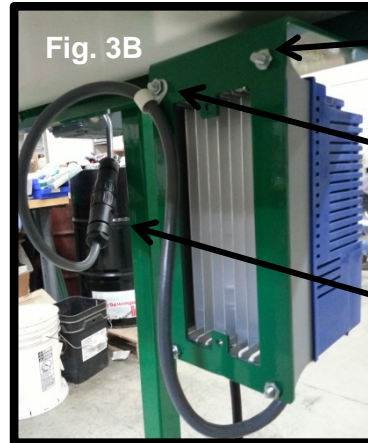
3. Mounting the Controller (Sold separately)

- a. To mount the controller, first remove the protective wrapping used for shipping, if you have not already done so.
- b. Locate the controller mount bracket that was shipped with the conveyor (Fig. 2).



- c. Locate the mounting screws that were supplied with the controller, and attach the controller to the mount bracket so that the controller display is upright and the bracket mounting holes and Danger label are at the top and facing toward you (Fig. 3A/4A). Secure the controller cable to the back of the control mount using a cable clamp as shown (Fig. 3B/4B).

Programmable controller option #164866



(4) Holes to mount
164866 controller

Attach cable clamp
here

Place cable
connection behind leg

Variable speed controller option #164889



Attach cable clamp
here

(2) Holes to mount
164889 controller

d. Next, locate the two bolts on the motor side of the conveyor, adjacent to the leg bracket (the bolts are between the motor and the serial tag (Fig. 5).

(2) Holes to mount
controller



e. Use a 1/2" hex wrench to remove these two bolts and then position the holes in the controller bracket over the holes left by the bolts and reinstall the bolts, securing the controller to the conveyor.

Note that the controller can only be installed in this location, due to the length of the cord connecting it to the motor. If done correctly, the controller should hang below the conveyor and the button labels should be legible (right side up) See Fig 6A or 6B. depending on which controller was purchased.

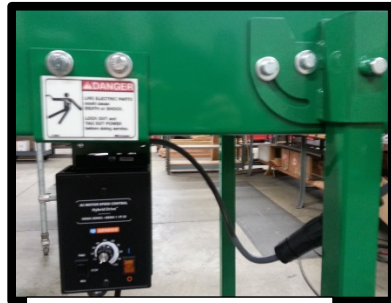


Fig. 6A Controller 164889



Controller 164866 Fig. 6B

Note: if it becomes difficult to install bolts into holes, reach under conveyor and push up on the belt and cross member until holes are aligned and bolts can be installed.

4. Electrical Connection

- a. Connect the controller to the drive motor by connecting the two connector plugs. Be sure to align pins before inserting the male into the female connectors. Tighten the lock ring to secure the connection (see Fig. 7).



Tighten lock ring hand-tight to secure connection

Fig. 7

- b. Plug the 3-pronged power cord into a grounded, 115 VAC single phase outlet
- c. See the controller manual for operating instructions of the controller.
- d. If you plan to do any additional electrical connections, such as hard wiring the power cord to another circuit, **lock out and tag out the power to the circuits involved before making any more electrical connections.**

Only qualified electricians are to perform electrical work.

- e. Your IMS conveyor is now ready for service. Be sure to reference the maintenance section to insure years of trouble free service.
Thank You!

DANGER

The conveyor belt may cause **injury** or **death**

Avoid contact with moving belt

Do **NOT** wear loose clothing or long hair near the conveyor, especially **NOT** near the rollers on the ends

NOTE

New conveyor belts will stretch after initial use. Check and adjust the belt tension after the first day, after the first week, and after the first month of use. Inspect the belt every couple of months after that.

Maintenance

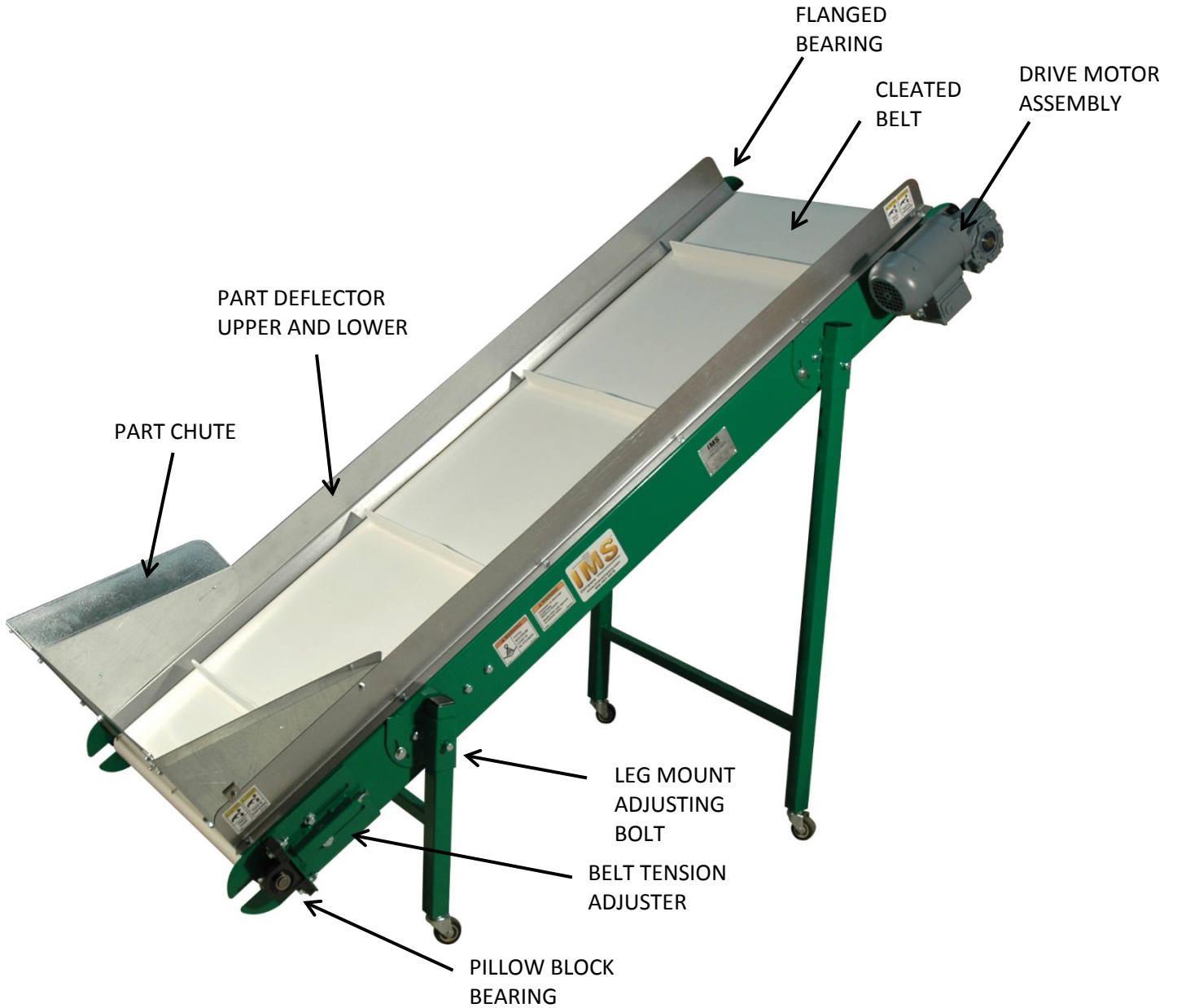
1. Check the grease lubrication on the 3 grease bearings (1 drive flange bearing and 2 driven pillow block bearings on the corners on the side of the conveyor). IMS recommends re-greasing these bearings monthly or more often, and recommends using IMS Lithium Cartridge grease. Note: some grease may not be compatible with each other for extended use. However, all lithium based greases should be compatible with each other.
2. Regularly inspect the belt to ensure that it is not frayed or otherwise damaged. The belt should have sufficient tension to be driven with the maximum load of parts. If the belt is damaged, replace it immediately before continuing operation, it is dangerous to operate the conveyor with a damaged belt. **Remember to unplug the conveyor before inspecting the belt. Never touch the belt while it is moving.**
3. Check the motor manufacturer's manual for information on maintaining

the motor and gear reducer.

4. If you have accidentally reset the programming settings on the programmable controller (option), or need to reset the program settings, refer to the programming instructions in the manual that came with the controller for guidance. Or call 1-800-537-5375 for assistance
5. Regularly (every several months) perform a general inspection of the conveyor. This should include examining the power cord, ensuring all bolts are sufficiently tight, checking for any significant wear, examining the deflector for damage, and confirming that the conveyor runs properly.



Replacement Parts



Description

IMS Item Number

Drive Motor Assembly.....165078

Programmable Controller.....164866

or

Variable Speed Controller.....	164889
Pillow Block Bearing (Drive Side).....	161077
Flange Bearing (Idler Side).....	161076
Spare Belt (For 6' L x 12" W Conveyor).....	162505
Spare Belt (For 6' L x 18" W Conveyor).....	162506
Spare Belt (For 6' L x 24" W Conveyor).....	162507
Spare Belt (For 8' L x 12" W Conveyor).....	162508
Spare Belt (For 8' L x 18" W Conveyor).....	162709
Spare Belt (For 8' L x 24" W Conveyor).....	162510

Notes and Maintenance Record