



TragenFlex

INSTRUCTION MANUAL FOR MODEL SBC

SLAT BELT CONVEYOR SYSTEM

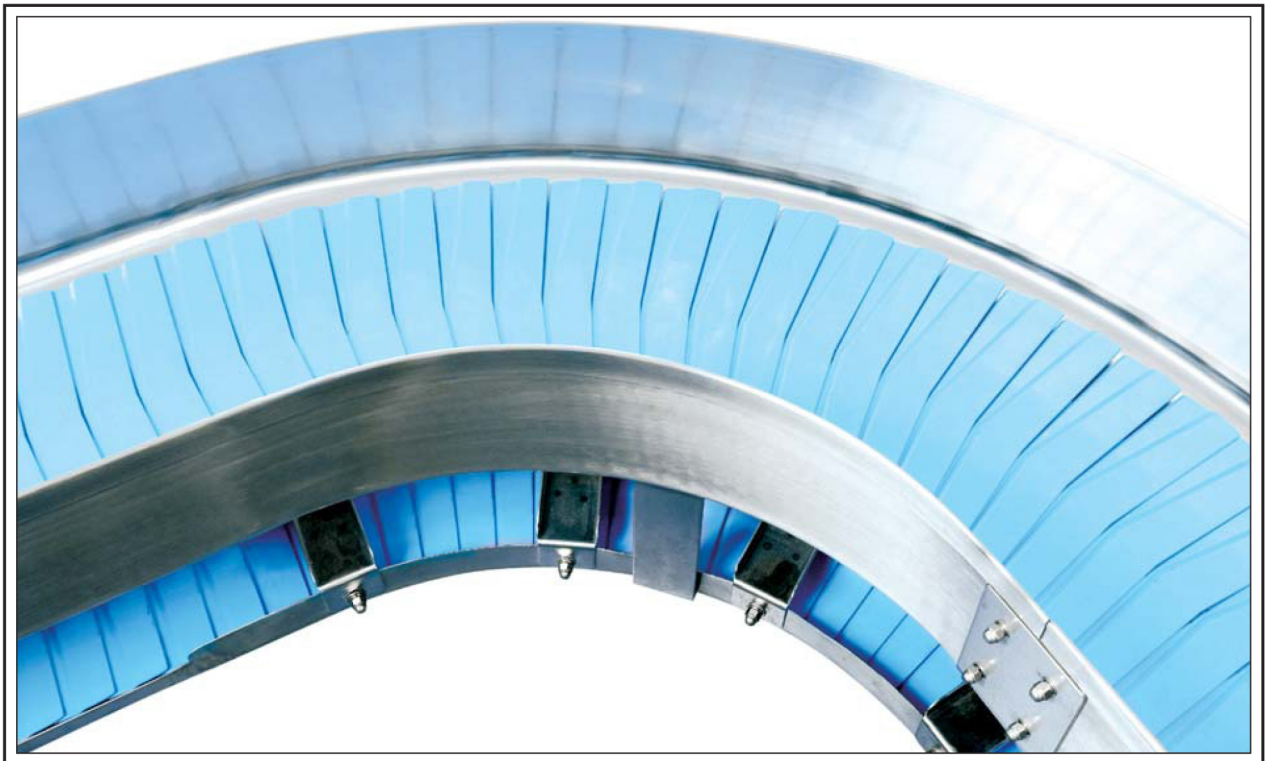


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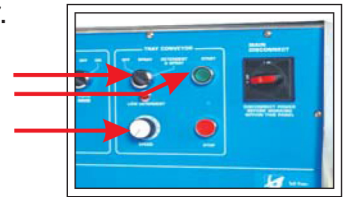
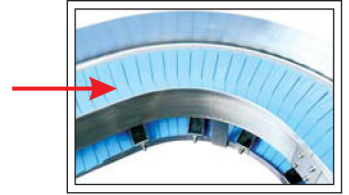
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INSTRUCTION MANUAL FOR MODEL (SBC) SLAT BELT CONVEYOR SYSTEMS

1. OPERATION

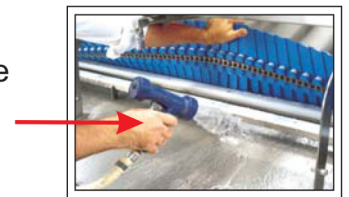
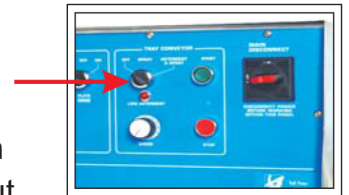
1.1. START UP PROCEDURE

1. Make sure belt is correctly in place.
2. Turn the main disconnect switch to the on position.
3. Turn the belt wash switch to detergent and spray. Then push the green start button for the belt line. Make sure the belt speed is set low when starting initially (set speed as desired).
4. Run on detergent & spray for only 5-10 minutes every hour. Run on spray rest of the time.



1.2. SHUT DOWN PROCEDURE

1. Turn the belt wash switch to spray only. Allow the system to run until the belt line is clear of soapy suds.
2. Once the belt line is clear of soapy suds, turn the belt wash switch to the off position, press the red stop button and turn the main disconnect off. Once the system is completely shut down please perform your wash down procedures.
3. Use a heavy duty wash down hose to spray down the entire conveyor system.
4. Lift the slat belt out of the track to spray out the debris underneath, follow the arrow direction on the slat for the direction of spray.
5. Don't spray directly at the electrical control panel use a warm soapy cloth to wipe it down.



6. Make sure to lift the belt out at the corners to spray underneath.



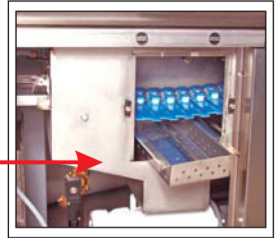
7. Make sure it snaps completely back into place.

8. Open the drive unit wash chamber to spray the inside of the wash tank.



9. Inspect the spray arms to make sure no debris is blocking the spray holes. Make sure spray arms correctly positioned to hit the belt.

10. Remove and clear the basket scrap stations located in the drive wash tank and the tail tank. Please note for each slat belt conveyor there are two areas that need to be serviced.



11. Be sure to replace the strainers once they are clean and free of debris. Replace access doors and belt properly in its track before restarting the conveyor.



12. Leave the belt wash switch in the off position. This will allow the belt to self clean itself by draining out the water that has accumulated in the channels on top and bottom.



13. Run until a visual inspection determines that the line has dried up some what (usually 5-10 minutes).

14. Shut down entries system by turning the main disconnect switch to the off position.



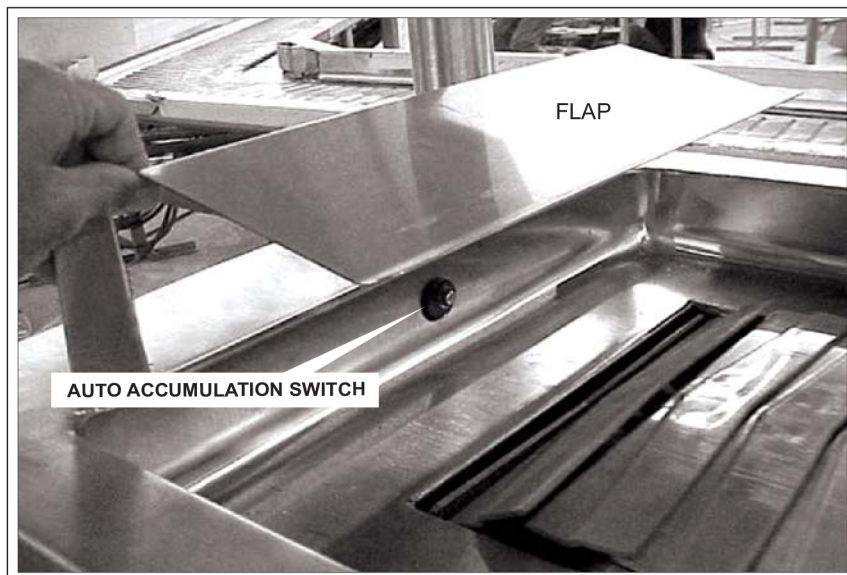
15. Once the conveyor system is completely shut down remove the belt from its track on top and place on the side to further aid in the drying process overnight or between shifts.

1.3 DETERGENT

Using the proper amount of detergent & water temperature is very important to preventing mold growth on the slat belt along with proper cleaning procedures. Use ECOLAB (or Equivelant) saniglide detergent. It must be diluted to 1 part soap to 5 parts water. Water temperature must be at least 105° F.

Note:

Never operate conveyor if the belt wash system is not operating correctly. Ensure there is sufficient detergent to complete the conveyor wash cycle. The conveyor will stop automatically if the accumulation switch is activated by dishes or racks pushing against the switch flap. The conveyor will run as soon as dishes are cleared and the flap is not pressing against the switch. The auto accumulation switch is optional.



AUTO ACCUMULATION SWITCH

2. PREVENTIVE MAINTENANCE

Every month the belt should be inspected and the damaged slats should be replaced immediately. To perform an inspection, run the belt slowly for one complete revolution and observe it for any damage or misalignment. An ideal way is putting a tape mark on the slat belt to recognize the starting position. Remove the slats which are damaged or not sitting properly. The second part of the inspection is to examine the bottom of the belt, starting from the tape mark. Remove the slats having any of the following damage.

Slats missing a roller wheel.

Cracks beside the holes in the slat lugs.

Slats that sits loose on the chain.

Any slat that is broken.

After checking the length of belt on the straight section, advance the belt to inspect the next length. Continue this until the whole belt has been inspected. Replacing damaged slats is an imperative part to maintaining a system that runs effectively. The following steps and procedures should be brought to the attention of all the operators and maintenance staff.

2.1. DAILY

1. Remove the basket strainers from the drive and tail units, clean and replace them.
2. If your unit is equipped with a 'hose wash down station', use this hose to wash the scrapping table and slat belt conveyor to remove all the foreign material. When hosing down the system, make sure that no water gets into the sensor. (Optional equipment).
3. Check the top and bottom of the entire belt line and remove if there are any foreign objects (knives, forks, plastic, etc). These objects may hinder the performance of the conveyor unit.
4. If your unit is equipped with accumulation switches make sure that they are free from the obstructions. System will not start unless the obstructions are cleared.
5. Clean out any foreign matter from the conveyor belt, underneath the belt and in the return track as well.

2.2. WEEKLY

Replace any missing slats. See section 3.1 more information.

1. Clean the areas, which are not accessible to the hose, using a wet soapy cloth. Use hard water cleaners to clean areas where hard water build up may occur.
2. Check the detergent system to make sure that it is operating effectively.
3. Clean out any foreign body from the conveyor belt, underneath the belt and in the return track as well.

2.3. MONTHLY

1. Ensure that there is sufficient detergent available in the stock. It is recommended to have an inventory of detergent, which lasts for up to a month.
2. Inspect entire belt line and replace any slats that are missing. The slats with broken edges, cracks and missing rollers are should also be replaced. See section 3.1 for more information.
3. Check sag of slat belt in drive unit. If belt is sagging too much & close to bottom spray arm, remove a chain link. See section 3.3.
4. Make sure that all the switches are functioning correctly.
5. Remove and flush out spray arms located in the drive unit. A qualified mechanic should perform this work.

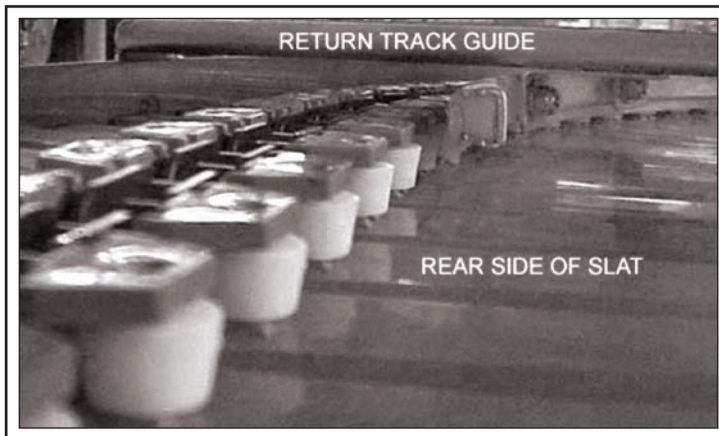
2.4. SEMI-ANNUALLY

Inspect the slat belt chain for excessive slack caused by stretching. The excessive slack can be removed by adjusting the length of the chain. Please refer the section 3.3 of this manual for details.

1. Inspect plastic wear strips. The worn strips should be replaced immediately.
2. Apply food grade grease to the flange bearings grease seals and drive chain located in the drive unit. Contact TragenFlex for grease available in solid and Aerosol form. Use only food grade with lithium grease.
3. Inspect if the slat belt is at the center of the openings on both drive and tail ends. If the belt is shifted from its normal position adjust the position of the corresponding sprockets.
4. Check the oil quality and the level in the gearbox. For the gearbox oil change, please refer the section 3.5 for more Information.

2.5. RETURN TRACK CORNER GUIDES

The TragenFlex conveyor belt is unique in its use of small guide wheels on the bottom to reduce the cornering friction. As the belt is upside down on the return track, special cornering guides are employed to engage these wheels and guide the belt to go around corners. The proper operation of the system is dependent upon these guides being correctly set up.



When properly set up the belt should go around the corners without the tips of the slats touching either the inside or outside edges of the return track. The system is designed to allow a 1/8" gap between the tips of the slats and the edges of the return track. Also adjust the guide rails to have 1/8" vertical gap between the bottom surface of the slat and the guide rail. (Please refer the figure) This adjustment once completed, the guide rail should be locked in place by tightening the nuts. Apply the sealant such as loctite 262 to the bolts in order to prevent it from loosening due to the vibration during operation. The most common indication of the return track misalignment is wearing of the slat belt on one side.

2.6. SPRAY ARMS

The belt is washed within the drive unit by two fixed stainless steel spray arms. The spray arms can be taken out by removing the large nut located on the rear side of tank. Inspect the spray arms for any damage or clogged spray holes. Once spray arms are replaced, make sure that they are properly oriented to have the water jet holes pointing directly towards the belt. Start the unit and adjust the water pressure. Inspect the spray arm for any leak at the connection points.

2.7. WASH CHAMBER WATER SUPPLY

The incoming water for the slat belt wash should be set at 105 degree fahrenheit (40 degree celsius) with 60psi water pressure. This is required to ensure effective cleaning of the slat belt. All plumbing connection must be done by plumber to local codes.

3. MAINTENANCE

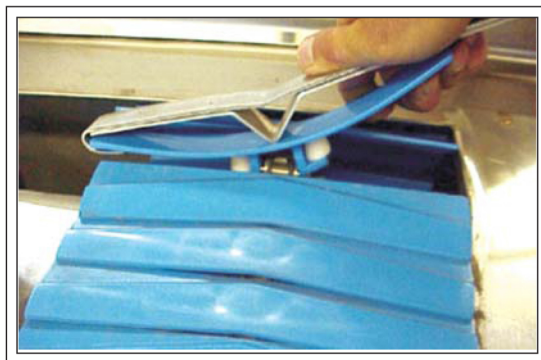
Before performing any maintenance operation on equipment, shut down the conveyor and disconnect the power at your main circuit breaker.

3.1. REMOVAL & INSTALLATION OF SLATS

The TragenFlex slat is specially designed for easy installation and removal from the stainless steel side-bow chain. Once the slats are assembled, the extended pins of the chain must be completely engaged in the holes provided in the slat. This is usually ensured by a “clicking” sound heard during the assembly. The slat should lay flat and straight when properly installed as shown below.

3.1.1. REMOVAL

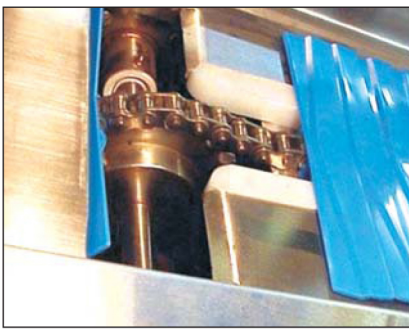
Engage one end of the slat in slat tool and arch the slat by grasping the other end. Pull away the slat once the pins on the chain disengage the holes in the slat lugs.



Note: Slat tool aides in removal & installation of slat please contact AW if you wish to purchase one.

Under no circumstances shall the slats be hammered. Hammering the slat will cause the extended pin to drag material and block the nesting holes causing the slat tips to arch upwards out of level with the rest of the belt

Don't run the system when more than three slats are missing at one point.

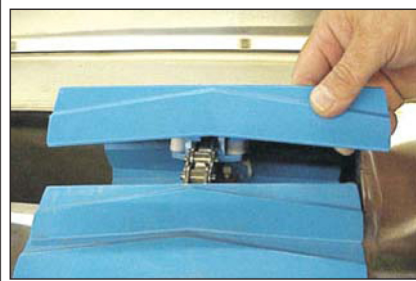


Bring the section of the belt where slats are to be replaced on top of bed or on the drive sprocket just before entering the belt slot.

If you are replacing the slat on the bed top (not at drive sprocket) always put something under the belt (like screw driver etc.) so that the belt arcs for easy access to the slat.

3.1.2. INSTALLATION OF SLATS

TragenFlex offers a custom slat tool that can be ordered as a spare part. This tool has been specially designed to ease the installation of new slats as shown below. To know more about the parts and description please refer to section 5.



This figure shows proper orientation of the slat. (The arrow should point towards the moving direction of the conveyor belt)



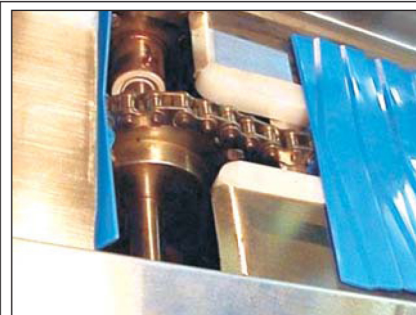
Engage and arch the slat using the slat tool.

Push the arched slat to the chain.

The pins on the chain snap into the holes of the slat. A slight click may be heard when the slat is engaged.

3.2. BEARINGS

Two bearings 1" dia are located in the drive unit. These bearings shall be lubricated once a year from the date of start up with food grade grease only. Contact TragenFlex to purchase proper grease.



Remove a few slats to access the grease nipples.



Lubricate the bearing using a grease pump.

3.3. CHAIN TAKE UP

3.3.1. SLAT BELT CHAIN

The slats are attached on a stainless steel slat belt chain. Under normal operating conditions this chain should not require any replacement. However over a period of time, the chain stretches out, this is normal. Regulars adjustment to reduce the length is required follow these steps to reduce the length of the slat belt chain.

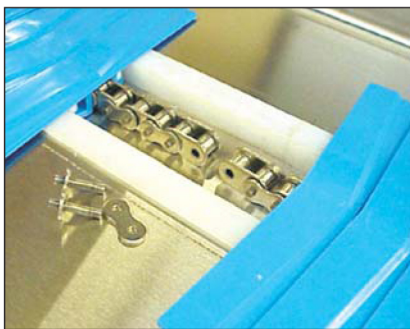
Note: There is no master link, chain can be broken at any point on the belt.



Remove about 5 slats from the chain.

Remove the pin and disconnect the chain.

Overlap the chain to determine where the next slat link should be disassembled & assembled.



Remove required number of links.

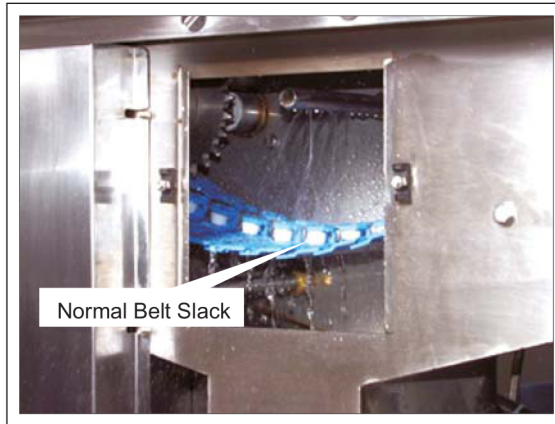
Removal of each link reduces the overall chain length by 1 1/2".



Connect the both ends of the chain using the regular link.

Install the slats, run the conveyor and inspect the slat belt for smooth operation.

For smooth operation check the slackness of the belt in the drive unit. Under normal slack, belt runs smoothly and get on to the sprockets easily.

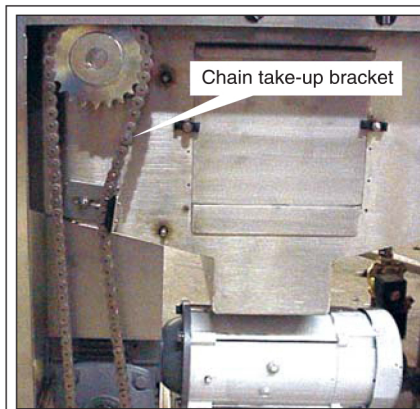


DRIVE UNIT SHOWING NORMAL BELT SLACK FIGURE 4.0

Note: It is important to allow about 2” belt sag between the drive sprocket and the n feed return track with proper sag, the belt chain meshes the drive and tail end sprockets properly and operates smoothly. Inspect belt slack every 6 months of operation

3.3.2. DRIVE CHAIN

The gearbox coupled to the motor transmits power to the drive sprocket through a stainless steel chain. This chain also stretches and becomes loose over a period of prolonged conveyor operation.



To adjust the chain slack, loosen the bolt that secures the chain take-up bracket.

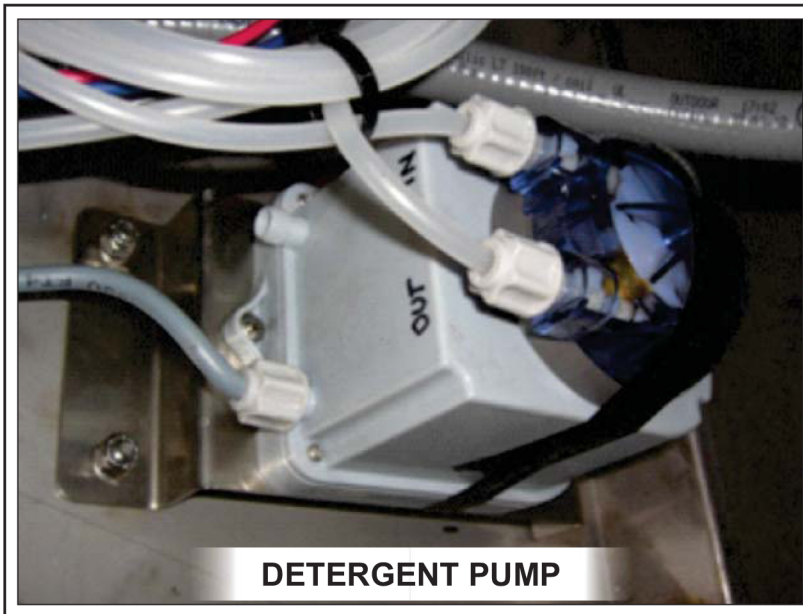
Reposition the bracket and tighten the bolt.

When this is done make sure that the chain should allow about $\frac{3}{4}$ ” lateral movement.

3.4. DETERGENT FEED PUMP

The Detergent Pump located within control amount of detergent dispensed. The pump turns on for 10 seconds and remains turned off for 60 seconds. This on/off sequence controls detergent dispense during the conveyor operation. This pump rated to operate at 24VDC.

Note: that the pump injection fitting, Foot valve/Strainer requires occasional cleaning.



3.4.1. REPLACING DETERGENT PUMP

The detergent pump plays an important role in the operation of your conveyor system by periodically cleaning and lubricating slat belt system. A poorly maintained belt will create sanitation and mechanical problems. As discussed in previous section, it is imperative that the operation of the pump be checked on daily basis. If injector tube or coupling is required to be replaced, please contact TragenFlex with the correct part and model number of your unit. When internal parts of the pump are faulty, the entire pump has to be replaced.

Please follow these steps to replace the pump:

1. To make sure that pump is defective, please check whether the electrical connection are loose at junction box, inside the drive unit or pump lines are clogged or detergent source is empty.
2. Once the pump has been proved to be faulty, please call TragenFlex.
3. Before servicing the pump, disconnect the power at the main circuit breaker and at the main control center to avoid an accidental start up of the conveyor.
4. Disconnect the electrical connections and all pump tube fitting before removing the pump.
5. Once the tube fitting have been removed flush them out to clean any detergent build up. If you ordered new tubing, you can skip this step.

6. Install new pump using existing support studs and nuts. If the support studs are damaged or have fallen off, please replace them before installing the new unit.
7. Once pump is in place reconnect all electrical connections and tube fittings.
8. Before starting the unit, make sure that the detergent tank is full and the float in the detergent tank is sitting at the bottom.
9. When a new pump installed, the suction line will be dry and requires some time for priming.

If the pump is required to be replaced within the warranty period, please contact TragenFlex to obtain the Return Goods Authorization (R.G.A) number before ordering. The old pump must be returned to TragenFlex as soon as possible to validate the warranty claim.

3.5. GEAR BOX

Change oil after first year of operation. Then every year of normal service. Use a turbine type of oil or sae 50 grade oil. The oil viscosity for the particular unit is specified on the metal plate fixed on the gearbox.



Remove the oil breather located on top of the gearbox and fill with new oil until the specified level is reached.

Take out the socket headed screw located at the bottom. To drain the oil from the gearbox.

When the oil is drained completely, replace the screw. Replace the oil breather.

3.6. REPLACING GEARBOX

The first step is to turn off the main power breaker to the system.

Loosen the bolt that secures the chain take up bracket, to release the tension on the drive chain. When chain becomes loose remove it from the sprocket mounted on the gearbox.

Remove all the bolts connecting the gearbox to the motor.

Finally remove the bolts which secure the gearbox to the drive unit frame.

When re-assembling the gear box, go through the same steps but in the reverse order. Also see section 3.3.2 on adjusting drive chain tension.

3.7. MOTOR

The motor has been lubricated for life and hence no lubrication is required.
It is located in the drive unit.

3.7.1. REPLACING DRIVE MOTOR



Turn off the main power breaker to cut off the supply.
Remove the cables connecting the motor.
Remove the bolts that fasten the motor to the gearbox.
An electrician should do this job.

3.8. REPLACING SPEED POTENTIOMETER

If the speed potentiometer failed, it should be replaced with a new unit. First turn off the main breaker to cut the power to the system.



To gain access, open the front cover of the control panel by removing the screws. It is hinged and be gently lowered.

Note the existing wire connections to all the terminals of the speed controller unit.

Replace the new unit and reconnect the wires.



You can also refer to the wiring diagram to identify the terminals.

Close and resecure the control panel front cover, and then turn on the power to the unit. An electrician should do this job.

SLAT BELT (SBC) ELECTRICAL SYSTEM



WARNING


To prevent electrical shock, injuries or even death always disconnect the power before working on our electrical system.


About


This manual will cover the TragenFlex slat belt conveyors electrical systems and assist the user to troubleshoot and optimize its performance. The main control panel is not waterproof and under no circumstances shall the control panel be hosed down with water.

Panel Components

The electrical control panel contains many different electrical components that are used on a case by case basis. These components are DC power supplies, disconnects, fuse blocks, programmable logic controllers (PLC), Variable Frequency Drives (VFD), and relays.

 A photograph of a Siemens LOGO!Power DC power supply unit. The unit is black with a white label that reads "SIEMENS" at the top, "DC POWER SUPPLY" in the middle, and "LOGO!Power 24V D.K. 6EP1331-1SH03" at the bottom. The top of the unit has "INPUT AC 100-240V" and "OUTPUT DC 24V/1.3A" printed on it.	<h3>DC Power Supply</h3> <p>The control system of the conveyor is powered by 24VDC power supply unit. This power supply will supply the entire control system with power. It will be protected with fuses depending on your panel requirements. Always refer to the electrical diagram for further information regarding the part.</p>
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 A photograph of an ABB ION disconnect switch. The switch is silver and has a red handle with "ABB ION" written on it. Above the handle, it says "POWER SUPPLY 200V/15A/5s". Below the handle, there are several terminals labeled "L1", "L2", and "L3".	<h3>Disconnect</h3> <p>This switch will isolate the electricity so you can work on the panel safely. Always refer to the nameplate before supplying the panel with any power supply.</p>
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 A photograph of a Wöhner fuse block. The block is white and has five fuse slots. The fuses are labeled "F1 10A", "F2 10A", "F3 10A", "F4 2A", and "F5 2A". Above the fuses, there is a label that reads "wöhner ABB CC 32A 600V Class CC Only 31 297" and another that reads "wöhner ABB CC 32A Class CC 31 296 31 Do not operate under load".	<h3>Fuse Blocks</h3> <p>All fuses are sized individually for control or power circuit so it is important to refer to the electrical wiring schematics when replacing fuses. The fuses are class CC and will always be labeled with the correct fuse size on the fuse block.</p>
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PLC

The programmable logic controller (PLC) controls all input and output signals according to the program installed. The numbers on the display will show the inputs and outputs, and those numbers will be highlighted when input/output signals are activated. If you have issues with the PLC please contact TragenFlex for assistance.



VFD

The variable frequency drive (VFD) controls the AC motor speed and current by varying motor input frequency. The VFD's display will show the frequency of the drive when it is running. The VFD will be covered in more detail further on in the manual.



Relay

The relay is used in some cases to replace the PLC or for higher current operations. The relay is 24V controlled and will be either of a three or four pole type.

Machine Components (optional)

Please note that these components will vary depending on the conveyor.



Detergent Pump

The Detergent Pump is located within the slat belt drive unit and will control the amount of detergent dispensed. The pump will cycle 10 seconds on then 60 seconds off continuing this cycle as long as the belt is running. This on/off sequence will allow for proper cleaning of the conveyor during operation. The pump is rated to operate at 24VDC and is controlled by the PLC. Please note that the pump injection fitting and the foot valve/strainer requires occasional cleaning.



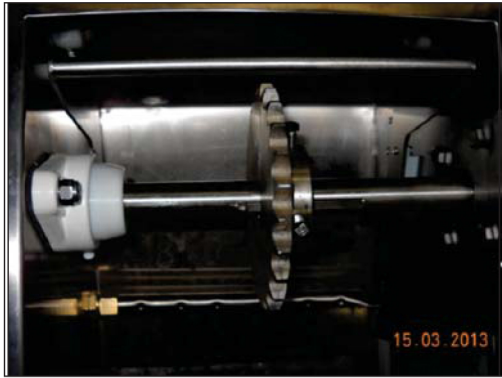
Solenoid

The solenoid is located in the drive unit of the slack belt conveyor. It is used to spray water onto the belt as long as the conveyor is running. It is controlled by 24VDC and will always be on as long as the belt is moving.



Motor

The motor for both the slat belt and knuckle belt will be located in the drive unit. The motor will be a Keltech 0.75 HP AC motor by convention but always check your electrical drawing to confirm. The VFD will drive this motor when the conveyor is running.



Anti-Jam Switch

The anti-jam switch is located in the drive unit and can be seen from the outside on the top side. It is in place to prevent objects or human parts from becoming stuck in the unit and causing damage to either the user or conveyor.

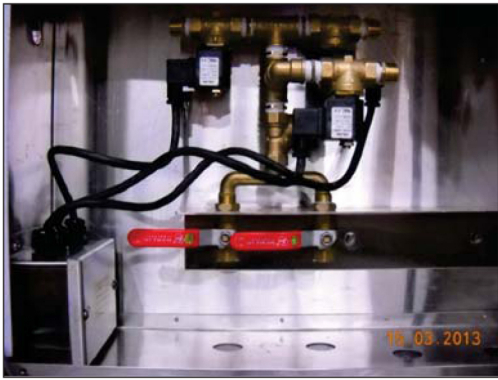


The rod can be moved back and forth causing the magnetic switch attached to it to engage and disengage. If the rod is pushed back at any time then the conveyor will stop immediately and will remain off until restarted.

The panel will have an anti-jam light that will light up as long as the rod is pushed back indicating a jam. If the rod is released back to its original state then the light will turn off and the conveyor can be started by the start button at any time.



Note: That the switch can get stuck so if the light will not turn off simply go to the rod and move it back and forth till it is realigned in the appropriate location and the light goes off.



Auto-Rinse Station

The auto-rinse station will spray water out of the hose as long as the sensor is covered. When the sensor becomes uncovered it will spray for three seconds and stop until the sensor is covered again.

It is composed of two electrical areas. The first being the plumbing box that will contain the solenoids. The solenoids will be numbered from left to right and from top to bottom as one to three. They will be wired one as a gray wire, two as a black wire and three as a white wire. All wires will be tagged with wire numbers for convenience.



The second part will be the actual auto-rinse station that will contain the sensor with the water hose. The sensor will be a proximity sensor with a range of approximately three inches.



Note: that it is important to keep the sensor eye clean on a regular basis as excessive dirt or debris will cause the sensor to trigger falsely.



Accumulation Limit Switch

The accumulation switch is used to stop the conveyor when a tray has traveled to the end of the belt. This type of accumulation switch is simply a limit switch that tells the PLC or Relay to shut off the motor temporarily until it is released. The flap as shown on the second picture will go over the switch and will only activate it when enough pressure is applied.



When the accumulation switch is activated there is an accumulation light on the panel that will light up. As soon as the switch is released the light will turn off.

Note: it is very important when washing the conveyor to never spray the accumulation switch down. If water were to get into the switch it will cause major issues for the system.



Accumulation Proximity Sensor

This type of accumulation sensor serves the same function as the limit switch. However instead of using pressure to sense to stop the belt it uses a proximity light beam to sense.

It is also very important that this accumulation switch is not sprayed down as that could stop the sensor from functioning.

Also it is possible for the sensor to be covered in dirt or debris which will make it falsely trigger so it is important to regularly clean the face of the sensor with a smooth cloth.

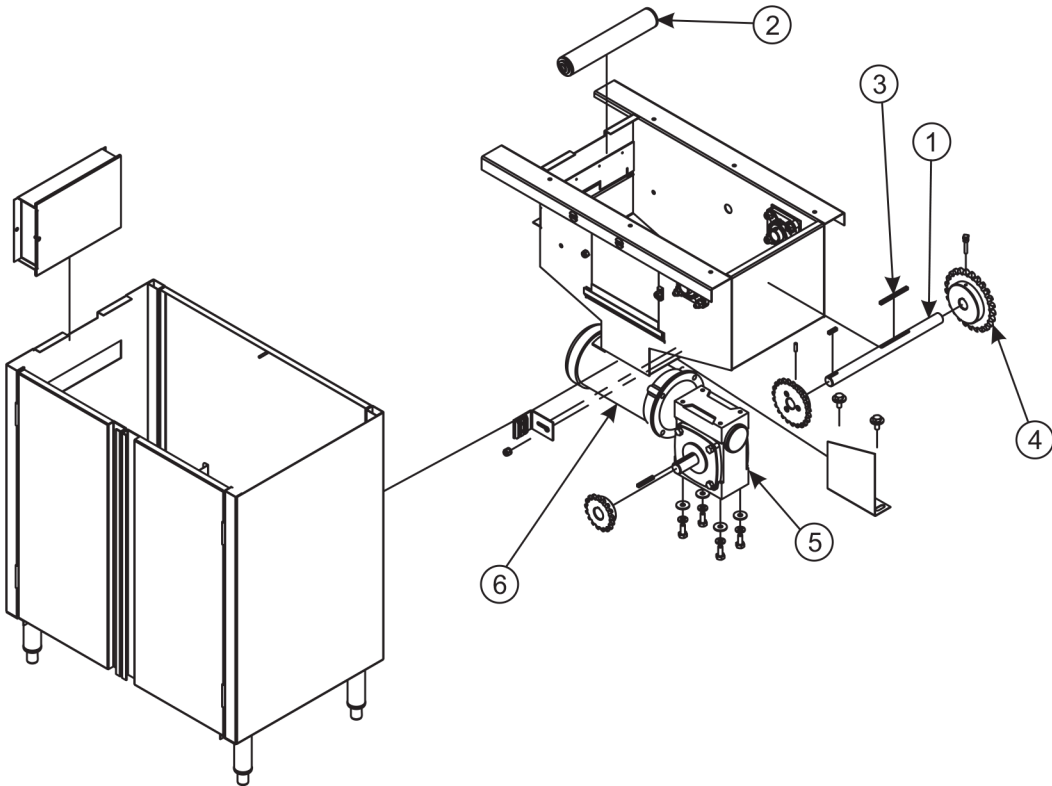


Hip Switch

The Hip switches are usually located next to the auto-rinse area and are at the hip level. In order to activate simply press the flap in and the conveyor will run as long as it is held. When the hip switch is released the conveyor will stop running immediately until it is either reactivated by the hip switch or started manually on the panel.

5. SLAT BELT CONVEYOR PARTS

5.1. MODEL SBC - SLAT BELT CONVEYOR PARTS



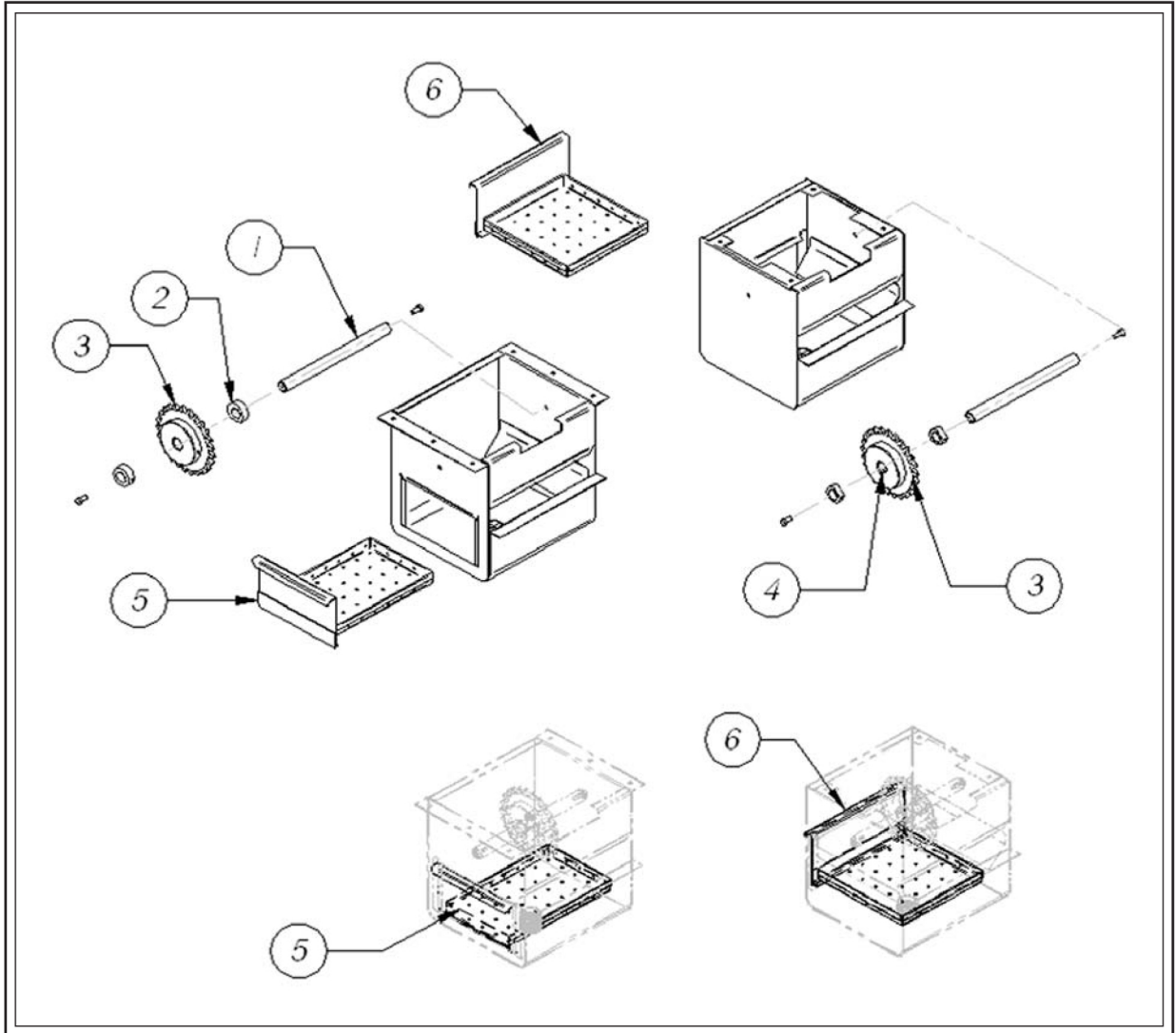
5.2. MODEL SBC- SLAT BELT CONVEYOR DRIVE UNIT PARTS LIST

Before placing a part order, please have the serial number located on a face plate on front of the main control panel available for TragenFlex customer support.

Item #	Part #	Description
1	0011309	DRIVE SHAFT SBC SINGLE DRIVE
1A	0011310	DRIVE SHAFT SBC DOUBLE DRIVE
2	0011311	BELT RETURN ROLLER ASSEMBLY
3	0300101	KEYSTOCK 1/4" x 1/4" x 2" LG
3A	0300102	KEYSTOCK 1/4" x 1/4" x 3 1/2" LG
3B	0300103	KEYSTOCK 1/4" x 1/4" x 1" LG
4	8103206	50B15 SPROCKET 1 1/8" BORE
4A	8103208	50B23 SPROCKET 1" BORE 1/4" 1/4" x 1/8" KEYWAY
4B	8103301	60B25 SPROCKET 1" BORE 1/4" 1/4" x 1/8" KEYWAY
5	8202503	GEAR REDUCER MODEL CC 70 - 60:1
6	8302020	MOTOR - 3/4 HP 15A/208 AC/1Ø/60Hz

5.3. MODEL SBC - SLAT BELT CONVEYOR SINGLE TAIL UNIT PARTS LIST

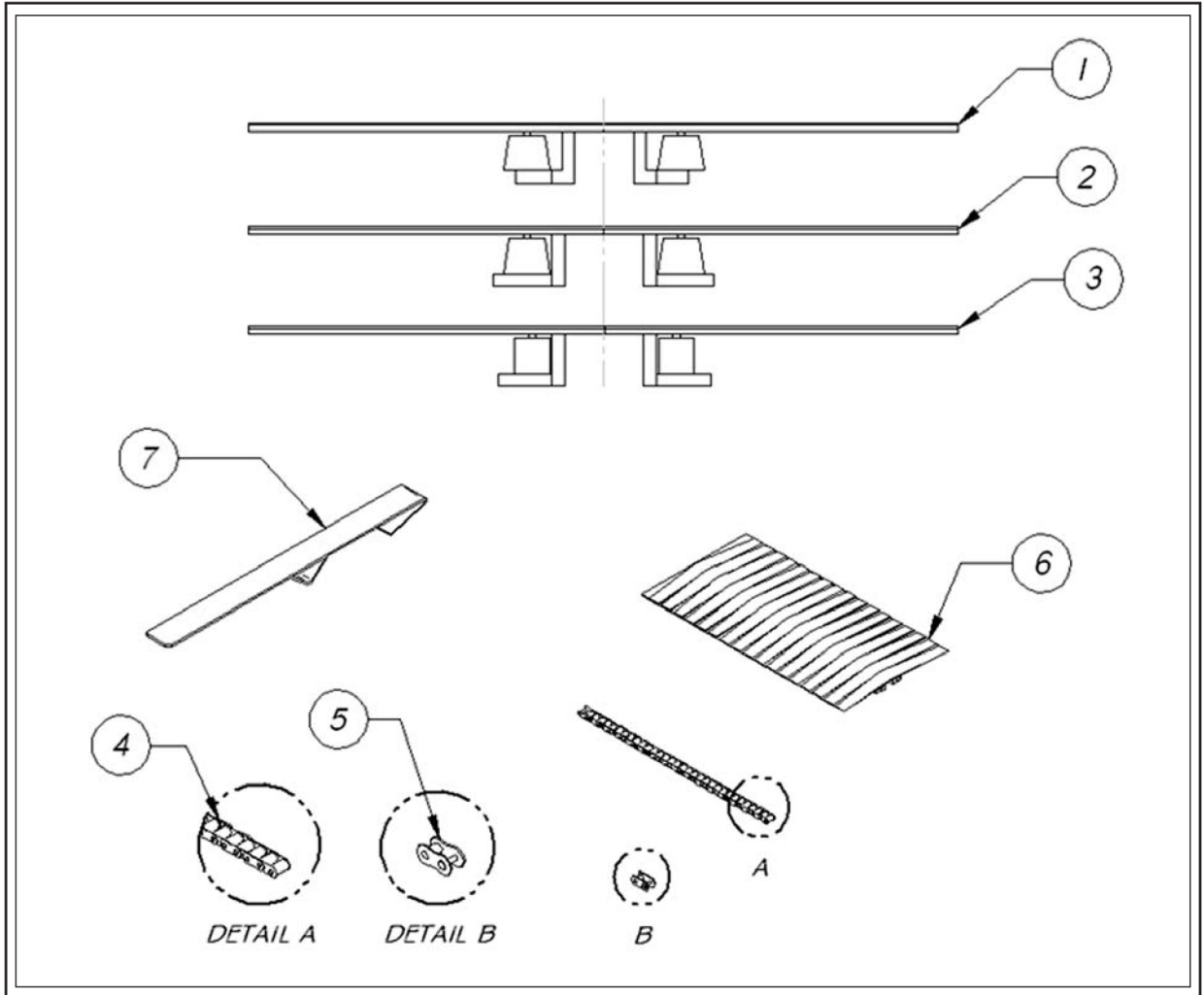
Before placing a part order, please have the serial number located on a face plate on front of the main control panel available for TragenFlex customer support.



PART ID	PART NUMBER	DESCRIPTION	UNIT
1	0210104	Tail Tank shaft 11-1/2' or 12' long	EA
2	8117701	Shaft collar 1"	EA
3	8103302	Tail Tank sprocket (stainless steel)	EA
4	8102702	Tail Tank sprocket bushing	EA
5	0212100	Tail Tank clean out basket w/ door (R - L)	EA
6	0212102	Tail tank clean out basket w/door (L - R)	EA
7	0212102	Tail tank clean out basket w/door (rear)	EA

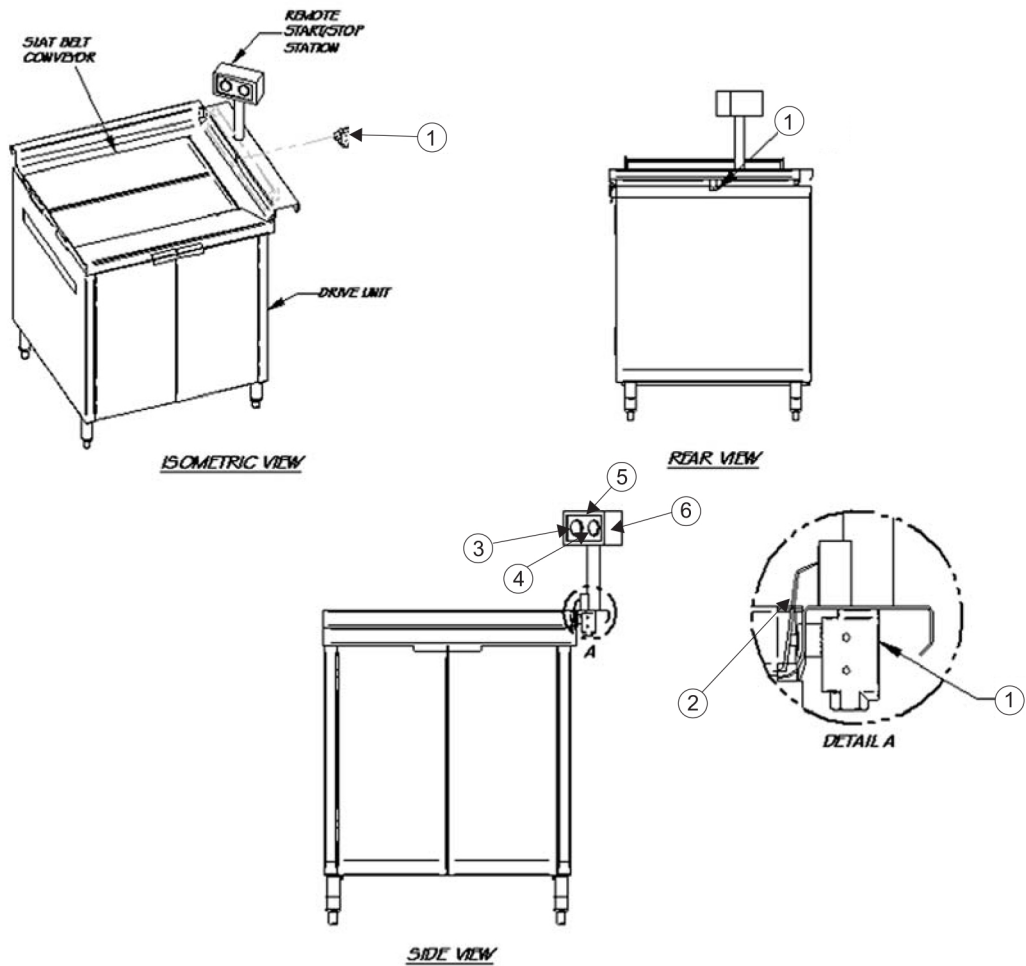
5.4. MODEL SBC - SLAT BELT CONVEYOR PARTS LIST

Before placing a part order, please have the serial number located on a face plate on front of the main control panel available for TragenFlex customer support.



PART ID	PART NUMBER	DESCRIPTION	UNIT
1	8403020	Slat AD (specify colour)	EA
2	8403021	Slat BD (specify colour)	EA
3	8403022	Slat DD (specify colour)	EA
4	8117401	Slat chain s/s (# 60 S/S Chain)	EA
5	8117459	Slat chain link	EA
6	0214004	Slat chain s/s w/ slats 12" long 8 slats	EA
7	0214003	Slat tool s/s	EA

5.5. ACCUMULATION SWITCH



PART ID	PART NUMBER	DESCRIPTION	UNIT
1	8711021	Accumulation Switch	EA
2	7014010	Flap Assembly	EA
3	8711601	Remote Start Button	EA
4	8711602	Remote Stop Button	EA
5	8711604	Normally Open (NO) Contact block	EA
6	8711605	Normally Closed (NC) Contact block	EA

6.1. WARRANTY PERIOD

TragenFlex warrants its products to the original purchaser against any defects in material and workmanship, under normal use and service for a period of one year after the date of installation by TragenFlex personnel or an TragenFlex authorized agent.

6.2. WARRANTY COVERAGE

It is important to follow the proper operation and maintenance procedures outlined in this service manual, so that the new TragenFlex system will provide you years of trouble free operation. Failure to follow proper operating and maintenance procedures will void the warranty of your equipment.

Please review this complete manual for operation, clean-up and maintenance procedures.

The obligation of TragenFlex under this warranty is to repair or replace any defects in the equipment. All the services covered under the warranty will be provided by TragenFlex during the regular working hours. All claims against this warranty must be made in writing to TragenFlex. Equipment must be serviced either by technicians of TragenFlex or agents authorized by TragenFlex. All warranty parts will be shipped to the client via regular ground transportation.

The following are not covered under this warranty:

- 1. Slats & Normal Wear on Parts:** Over time of operation the plastic flights that transport dishware (commonly known as slats) will wear, scratch and may break off. This is normal; replacement of these slats will not be covered under warranty. It is important that you do not operate your system with broken or damaged slats, If a slat is partially damaged it should be removed completely. Operating the system with more than 3 slats missing in a row may damage the conveyor. Please keep spare slats on hand for quick and easy replacement. If you notice extreme wear please contact TragenFlex customer service.
- 2. Slat Belt Jam-up:** The SBC is designed to lift out without the use of tools for easy cleaning. If after cleaning or service the belt is not inserted into the track properly the conveyor will most likely jam-up once started. This is the most common reason of conveyor jam-up. This will not be covered under warranty that is why it is important to train staff on the proper operation and clean-up procedure of the SBC.
- 3. Cutlery or Dishware Jam-up:** The SBC System is designed with overlapping slats, beveled plains and angled corners, these features are designed to minimize the chance of objects jamming up the system. Please be diligent in removing such objects in your regular clean-up procedure.