Field Manual Powered Trash Belt Conveyor

Installation Procedures, Maintenance, and Parts Identification





To contact Intelligrated:

For service: Customer Service and Support (CSS)

Hotline 1-877-315-3400

On the World Wide Web: www.intelligrated.com

By mail:

Intelligrated 7901 Innovation Way Mason, OH 45040

(513) 701-7300

Read these documents thoroughly before attempting to perform maintenance or repairs to the applicable Intelligrated conveyor system components or devices. Exercise extreme caution when working around moving and rotating conveyor equipment. Wear the proper clothing and safety equipment. DO NOT attempt to perform any maintenance until the equipment is de-energized, locked out and tagged out in accordance with established company procedures.

The information presented in these documents are correct at the time of publication. Intelligrated has made every effort to ensure that the information presented is correct and free from error. However, some errors or misprints may occur. Please contact Intelligrated with any corrections.

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Direct questions and comments concerning the information contained in this manual to:

Documentation Department Intelligrated 7901 Innovation Way Mason, OH 45040

Ph (513) 701-7300 Fax (513) 701-7349

customerservice@intelligrated.com



Package Conveyors





Do Not Climb, Sit, Stand, Walk, Ride, or Touch the Conveyor at Any Time



Do Not Perform Maintenance on Conveyor Until Electrical, Air, Hydraulic and Gravity Energy Sources Have Been Locked Out or Blocked



Operate Equipment Only With All Approved Covers and Guards in Place



Do Not Load a Stopped Conveyor or Overload a Running Conveyor



Ensure That All Personnel Are Clear of Equipment Before Starting



Allow Only Authorized Personnel To Operate or Maintain Material Handling Equipment



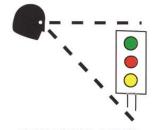
Do Not Modify or Misuse Conveyor Controls



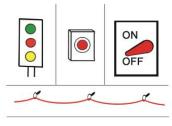
Keep Clothing, BodyParts, and Hair Away from Conveyors



Remove Trash, Paperwork, and Other Debris Only When Power is Locked Out and Tagged Out



Ensure That ALL Controls and Pull Cords are Visible and Accessible



Know the Location and Function of All Stop and Start Controls



Report All Unsafe Conditions Jams should be cleared ONLY BY Authorized, Trained, Personnel

POST IN PROMINENT AREA





Field Manual Issue and Revision Date(s)

1st Issue April 2005

1st Revision August 2006

Field Manual Revision Summary

Revision Date	Manual Section(s)	Revision Summary
August 2006	Section I	Updated Part Numbers





Section G	Installation Procedures	
	Accepting Shipment	
	Shortages or Errors	G - 1
	Lost or Damaged Shipment	G - 1 G - 1
	Codes and Standards	
	Warning Signs	
	Safety Precautions	G - 2
	Parts Replacement	G - 2
	Factory Assistance	G - 2
	Pre-Installation Setup	G - 3
	Pre-Assembled Components	G - 3
	Style Identification	G - 4
	Assembling the Bed Section	
	Power Unit Assembly	
	Lubricant	
	Reducer Plugs and Fittings	
	Installing the Upper Bend Unit	
	Installing the Right-Angle Transfer Unit	
	Assembling the In-Line Transition	
	Assembling the Two-Pulley Hitch Unit	
	Side Guide Installation	
	Installing (Threading) the Belt	
	Cutting the Belt Square	
	Replacing the Belt(s)	
	Installing the Underside Guard - Intermediate Sections	
	Horizontal	
	Incline/Decline	
	Installing Electrical Wiring	G - 23
	Pre-Startup Preparation	G - 24
	Pre-Operation Checklist	
	Belt Tracking	G - 25
	Principles of Belt Tracking	G - 25
	Instructions for Belt Tracking Examples of Belt Tracking	
	Belt Tracking Checklist	
	Adjusting Belt Tension	
	Adjusting Snub Rollers	



Section H Maintenance

General H - 1
Maintenance Safety H - 1
New Installations H - 1 Maintenance Logs H - 1
Initial Start-up and Run-in Period H - 2
Chain and Sprockets H - 2
Power Unit Reducer H - 2
Scheduled Inspections and Maintenance H - 3
Daily Inspections H - 4
Weekly Inspections H - 5
Belting H - 5
Belt Lacing
Carrier and Belt Return Rollers H - 5
General Structure and Operation H - 5 Power Unit Reducer H - 5
Safety Guards and Devices H - 5
Electrical Devices
Monthly Maintenance H - 6
External Bearings H - 6
Internal Bearings H - 6
Power Unit Motor
Power Unit Motor/Brake H - 6 Power Unit Reducer H - 6
Power Unit Sprockets H - 6
Power Unit Chains H - 6
Power Unit Timing Belts H - 7
Drive Sprockets H - 7
Drive Pulley and Lagging H - 7
Supports and Hangers H - 7
Semi-Annual Maintenance H - 8
Power Unit Motor H - 8
Power Unit Reducer H - 8
External Pulley Bearings H - 8
Replacing the Belt(s) H - 9
Troubleshooting H - 10



Section I Spare Parts

General Information I - 1
Intermediate Sections I - 1
Box Bed I - 1
End Drive I - 2
End Drive with Take-UpI - 2
Intermediate Drives I - 3
SA2000 - Intermediate Section I - 3 SA2001 - Intermediate Section - Low Profile I - 4
End Idler Sections I - 5
Take-Up I - 5 PTO I - 5
Auxiliary Take-Up Sections I - 6
Manual (3.5" Pulleys) I - 6 Manual - 6" Pulleys I - 6 Automatic (Air) - 6" Pulleys I - 6
Power UnitsI-7
Under-hung Mount I - 7 Side-Mounted I - 7
Miscellaneous Sections I - 8
In-Line Transition Unit - HorizontalI - 8 In-Line Transition Unit - InclinedI - 8 Two-Pulley Hitch with Variable Degree InclineI - 9 Upper Bend UnitI - 9
Non-Width Related Parts I - 10
Width Related PartsI - 26
Lubricants and Paints I - 28





SECTION G:INSTALLATION PROCEDURES

Accepting Shipment

Immediately upon delivery, verify that you have received all equipment listed on the bill of lading or carrier's freight bill. Any shipping discrepancy or equipment damage should be clearly noted on the freight bill before signing.

Shortages or Errors

Report any shortages or errors to the Manufacturer's Customer Service in writing within ten days after receipt of shipment.

Lost or Damaged Shipment

Report lost shipments to the Manufacturer's Shipping Department.

If shipping damage is evident upon receipt of the conveyor equipment, note the extent of the damage on the freight bill and immediately contact the transportation carrier to request an inspection. Do not destroy the equipment crating and packing materials until the carrier's agent has examined them. Unless otherwise agreed to by the manufacturer, the Purchaser (User) shall be responsible for filing claims with the transportation carrier. A copy of the inspection report along with a copy of the freight bill should be sent to the Manufacturer's traffic department.

Claims and Returns

All equipment furnished in accordance with the Manufacturer's Agreement is not returnable for any reason except when authorized in writing by the Manufacturer. Notification of return must be made to the Manufacturer's Customer Service Department, and if approved, a "Return Authorization Tag" will be sent to the Purchaser (Users). The return tag sealed in the "Return Authorization Envelope" should be securely affixed to the exterior surface on any shipping carton side (not top or bottom), or affixed to any smooth flat surface on the equipment, if not boxed.

Send authorized return shipment(s) transportation charges prepaid to the address indicated on the Return Authorization Tag. If the Purchaser refuses initial shipment, the Purchaser (User) shall be liable for all freight charges, extra cost of handling, and other incidental expenses.

Codes and Standards

The conveyor equipment is designed and manufactured to comply with the American National Standard Institute's "Safety Standards for Conveyors and Related Equipment" (ANSI B20.1) and with the National Electrical Code (ANSI/NFPA70).

The Purchaser/Operator shall be familiar with, and responsible for, compliance with all codes and regulations having jurisdiction regarding the installation, use, and maintenance of this equipment. Appropriate lockout/tagout policy and procedures shall comply with the minimum safety requirements outlined in the American National Standard Institute's current publication (ANSI Z244.1).



Warning Signs

Warning signs and labels posted on or near the conveyor equipment shall not be removed, painted over, or altered at any time. All safety devices, warning lights, and alarms associated with the conveyor system should be regularly tested for proper operation and serviced as needed. If the original safety item(s) become defective or damaged, refer to the conveyor parts list(s) or bill(s)-of-materials for replacement part numbers.

Safety Precautions

- Do turn off conveyor power source(s) and affix appropriate lockout/tagout device(s) to
 operating controls before servicing the equipment. ONLY trained and qualified personnel
 who are aware of the safety hazards should perform equipment adjustments or required
 maintenance while the conveyor is in operation.
- Do observe all warning signs, lights, and alarms associated with the conveyor operation and maintenance, and be alert at all times to automatic operation(s) of adjacent equipment.
- Do use extreme caution near moving conveyor parts to avoid the hazard of hands, hair, and clothing being caught.
- Do not sit on, stand on, walk, ride, or cross (over or under) the conveyor at any time except where suitable catwalks, gates, or bridges are provided for personnel travel.
- Do not attempt to repair any equipment while the conveyor is running, replace any conveyor component without appropriate replacement parts, or modify the conveyor system without prior approval by the manufacturer.
- Do not operate the conveyor until all safety guards are securely in place, all tools and non-product materials are removed from or near the conveying surfaces, and all personnel are in safe positions.
- Do not remove or modify any safety devices provided on or with the conveyor.
- Do not clear jams or reach into any unit before first turning off the equipment power source(s) and affixing appropriate lockout/tagout device(s).

Parts Replacement

To minimize production downtime, selected conveyor spare parts should be stocked for replacement of defective components when required. Refer to the equipment bill(s)-of-materials where quantity requirements or code numbers are not indicated on the conveyor parts list. For added convenience, a list of selected spare parts for standard products is included in Section I of this manual.

Factory Assistance

Contact Field Service for installation, operation, or maintenance assistance, or Customer One Protection (COP) for replacement parts.



Pre-Installation Setup

Powered Trash Belt Conveyors are furnished with either an End or Intermediate type drive unit as standard.

The Intermediate Drive is normally furnished to provide End Idlers at the discharge to the next conveyor, either inline or 90° transfer.

For horizontal applications, the Intermediate Drive unit should be located as close as possible to the end of the conveyor that discharges the load.

For inclined applications, it is preferred that the Intermediate Drive be located close to the upper end of the conveyor.

Throughout this section, references are made to the "series" designation of a conveyor and its various component. The series is determined by the conveyor's pull requirement and the components are sized accordingly.

Type of Drive	End Drive		Intermediate Drive	
Type of Brive	Series 600	Series 800	SA2000	SA2001
Drive Pulley Diameter	6-5/16"	8-5/16"	8-3/8"	5-7/8"
Drive Shaft Diameter	1-7/16"	1-11/16"	1-11/16"	1-11/16"

Table G 1: Diameter Dimensions By Drive Type

Pre-Assembled Components

All drive/power units, idler/take-up units, and intermediate bed sections are shipped from the factory fully assembled. During installation, additional field assembly is required for the following:

- Mounting floor or ceiling type supports
- Splicing adjoining intermediate bed sections
- Attaching powered feeder and upper bend units
- Attaching two-pulley hitch and/or In-line transition
- Installing and tracking the belt
- Mounting side guides
- Installing bed stiffener angles
- Installing intermediate underside guards

Before installing the conveyor, review the layout drawings to determine the proper location, orientation, and elevation of the conveyor sections. Read all instructions provided in this manual before installing the conveyor.

Review the plan drawings to identify the individual components that make up the conveyor unit. Note the orientation, right-hand or left-hand, of the appropriate components and drives. A box depicting a chain guard on one side of the conveyor shows the orientation of motor driven components on the plan of the conveyor. See Figure G - 1.



Snap a chalk line on the floor or other support base to establish the centerline of the conveyor. Arrange the conveyor items and mounting supports along this base line according to the layout drawing. This ensures that all components are present and are compatible for proper assembly. Leave field-installed rollers and other accessory items in the shipping containers until all conveyor items are completely assembled, mounted on supports, and adjusted for proper elevation.

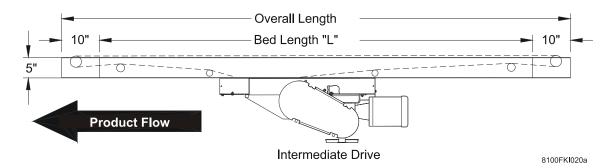


Figure G - 1 Typical Powered Trash Belt Conveyor (Style 02 Shown)

Style Identification

Equipment element combinations vary. Figures G - 2 and G - 3 illustrate available conveyor styles.



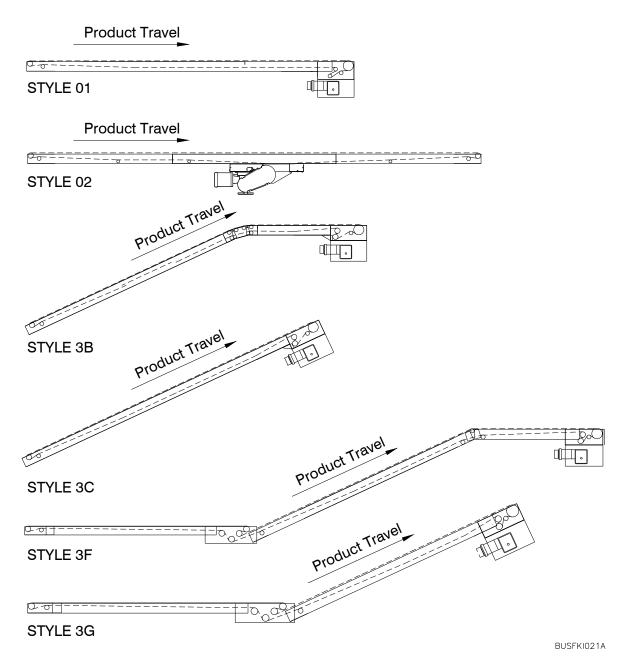


Figure G - 2 Powered Trash Belt Conveyor Style Identification - Sheet 1 of 2

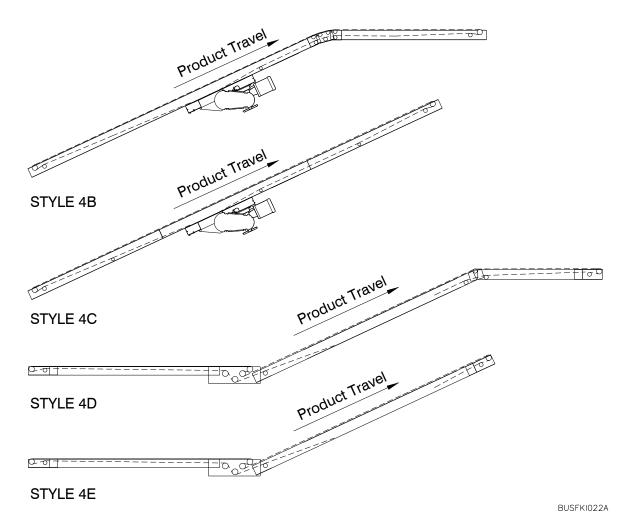


Figure G - 3 Powered Trash Belt Conveyor Style Identification - Sheet 2 of 2

Assembling the Bed Section

The bed section is normally installed with a support (floor or ceiling type) mounted to the frame's bottom flanges at the junction of two sections using $3/8" \times 1"$ hex head bolts. See Figure G - 4 and Figure G - 5.

When it is not possible to locate a support at the junction of two sections, it may be necessary to field drill the bottom flanges of the slider bed and relocate the support.

Mount a pair of four-bolt splice plates to the inside of the frames at each splice connection using $3/8" \times 1"$ hex head bolts. See Figure G - 4. Before tightening the bolts, check that the adjoining surfaces are flush and aligned.

When installing, position the bed section so that the belt return rollers are in the same relative position in all sections. This will assure the proper spacing of the return rollers.

Return rollers are furnished as follows:

- Two for each 10'-0" and 12'-0" section.
- One for each 5'-0" and 7'-6" section.

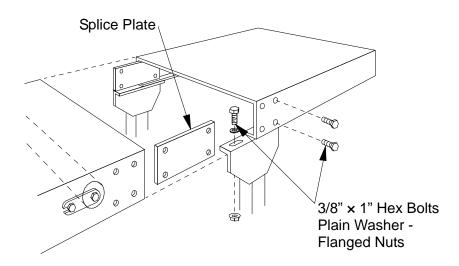


Figure G - 4 Splicing of Floor Supported Slider Bed Section

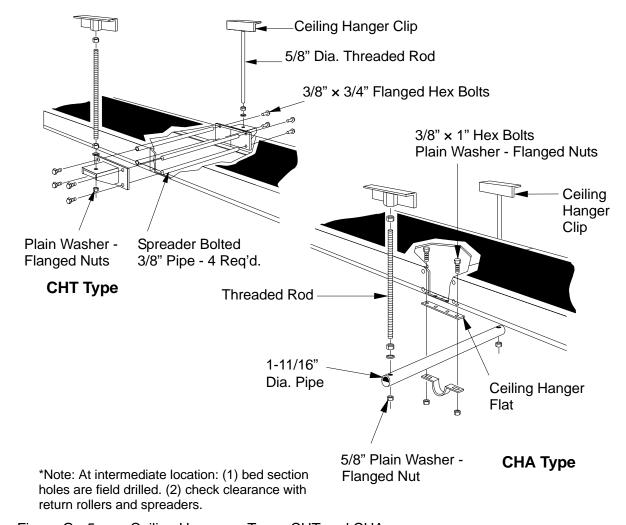


Figure G - 5 - Ceiling Hangers - Types CHT and CHA



Power Unit Assembly

Power Units ship from the factory fully-assembled to the drive section. Check the following before beginning installation:

- Lubricant
- Reducer plugs/fittings
- Sprocket alignment and set screws

Lubricant

Check that the reducer lubricant is up to the "Oil Level Plug." Before adding any lubricant, refer to the manufacturer's tags attached to the reducer.

Reducer Plugs and Fittings

Check that the oil level and drain plugs are properly installed and sufficiently tightened. Sprocket Alignment and Fasteners

Check sprocket alignment, see Figure G - 6. Shafts must be parallel.

See "Pre-Startup Preparation", on page G - 24, for additional information.

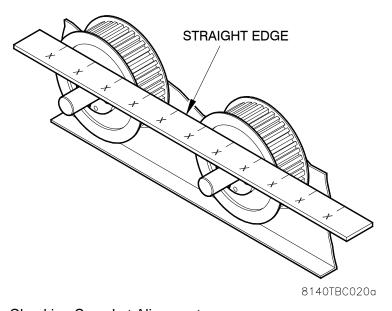


Figure G - 6 Checking Sprocket Alignment



Installing the Upper Bend Unit

The Upper Bend Unit ships from the factory fully in one of the following conditions:

- Connected to a terminal end (End Drive or End Idler). See Figure G 7.
- Shipped separately to connect on-site to the Intermediate Section(s) when the conveyor has a horizontal run-out. See Figure G 8.

When installing the Upper Bend Unit, adjust the Upper Bend so that the change between the inclined and horizontal planes is equally divided between the unit's two pivot points. See Figure G - 8.

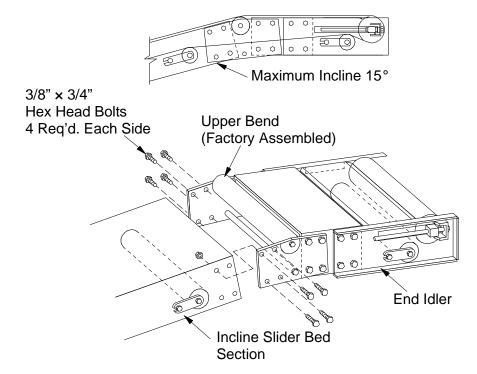


Figure G - 7 Attaching the Upper Bend Unit to a Terminal End

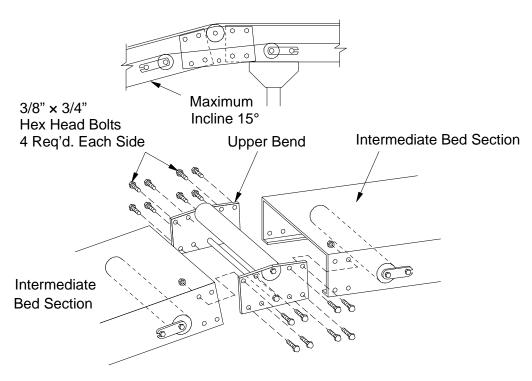


Figure G - 8 Attaching Upper Bend Unit When Conveyor Has Horizontal Run-Out



Installing the Right-Angle Transfer Unit

The width of the downstream take-away conveyor (Right Angle Transfer Unit) must be equal to the length of the largest item conveyed plus the horizontal distance that the discharge end of the feeding conveyor extends beyond the side guide of the take-away conveyor (6" recommended). See Figure G - 9.

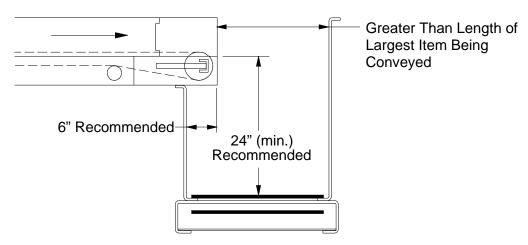


Figure G - 9 Right-Angle Transfer Unit



Assembling the In-Line Transition

Product Travel

The In-Line Transition Unit is pre-assembled at the factory and connected on-site to the Intermediate Bed sections at the transition point between two adjoining Powered Trash Belt Conveyors. The downstream section may be horizontal or inclined. The transition unit contains the end terminal pulley for both the upstream and downstream sections. See Figure G - 10.

Product Travel

24"

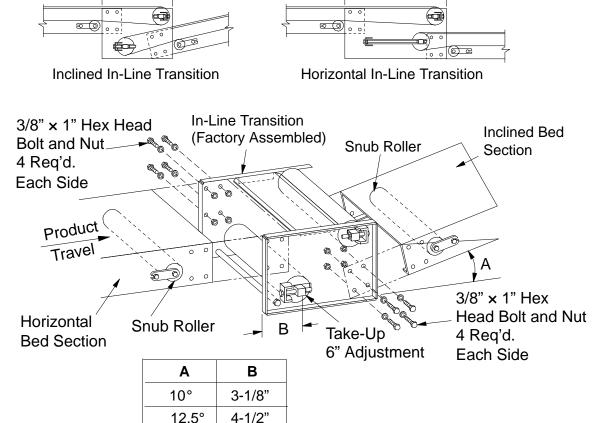


Figure G - 10 In-Line Transition Unit

15°

5-9/16"



Assembling the Two-Pulley Hitch Unit

The Two-Pulley Hitch Unit is pre-assembled at the factory and connected on-site to two Intermediate Bed sections at the transition point between horizontal and inclined sections of a single Powered Trash Belt Conveyor. The Two-Pulley Hitch Unit contains all pulleys to accommodate the carrying belt and return belt runs. See Figure G - 11.

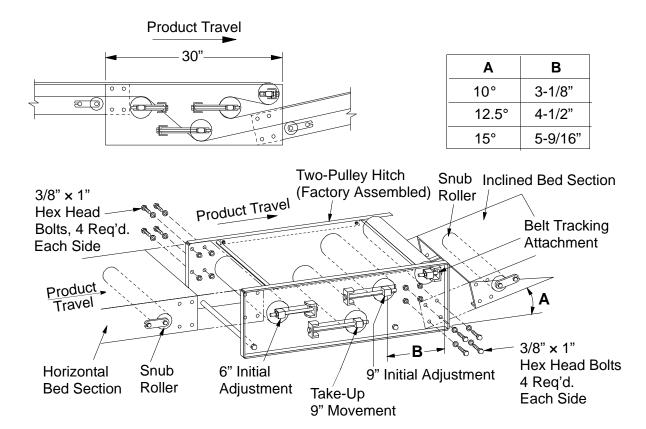


Figure G - 11 Two-Pulley Hitch Unit



Side Guide Installation

Assemble the 1-1/2" \times 2" \times 3/16" stiffener angle under the slider bed (33", 39", 45", and 51" widths only) when the Side Guide is installed. Use a 5/16" \times 3/4" long special truss head bolt through the side guide flange, slider bed and stiffener angle, at the holes provided in the bed.

The number of angles supplied depends on the size of the bed section:

- 12'-0" bed section four angles required
- 10'-0" bed section four angles required
- 7'-6" bed section three angles required
- 5'-0" bed section three angles required
- 6'-0" bed section three angles required

Locate one stiffener angle 6" from each end of the slider bed. Space the intermediate angles appropriately.

For 18" high side guide rails, bolt the side guide bracket to the side of the bed at the holes provided, using 5/16" × 3/4" long special truss head bolts and flanged hex nut. This procedure is not required for 6" high side guide.

Refer to Figure G - 12 through Figure G - 16 for Side Guide assembly illustrations.

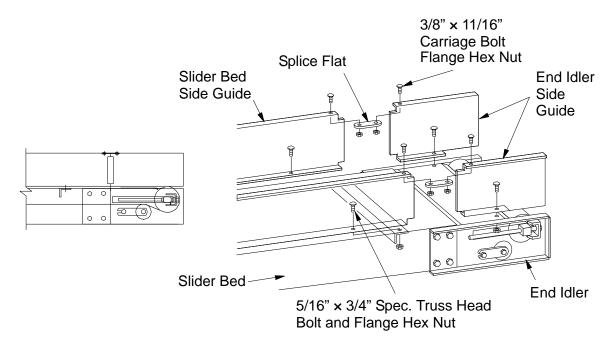


Figure G - 12 End Idler and End Take-Up Side Guide Assembly

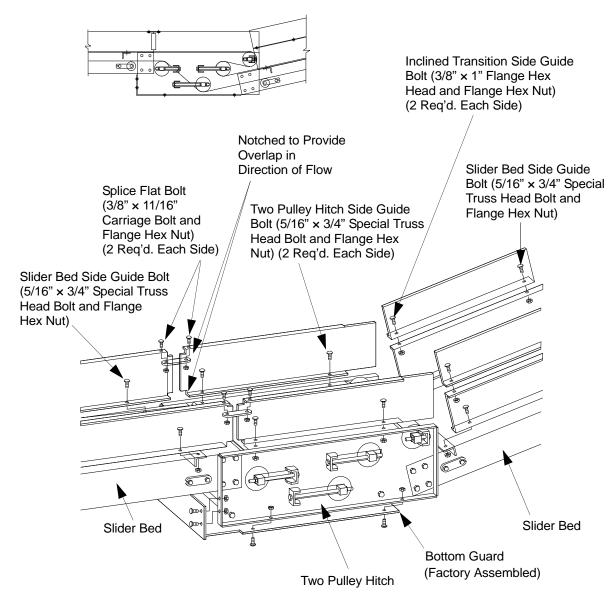


Figure G - 13 Two-Pulley Hitch Side Guide Assembly

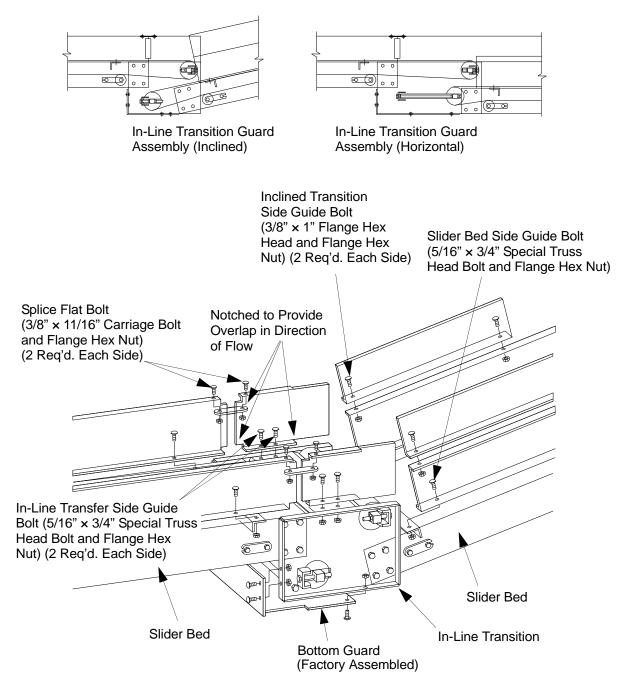


Figure G - 14 In-Line Transition Side Guide Assembly

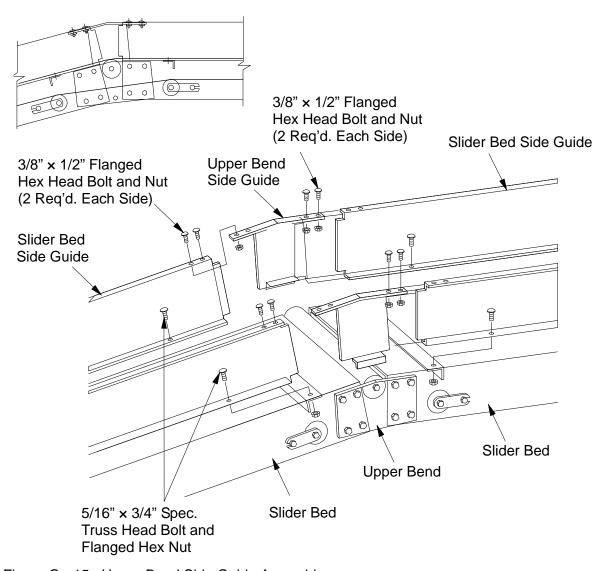


Figure G - 15 Upper Bend Side Guide Assembly

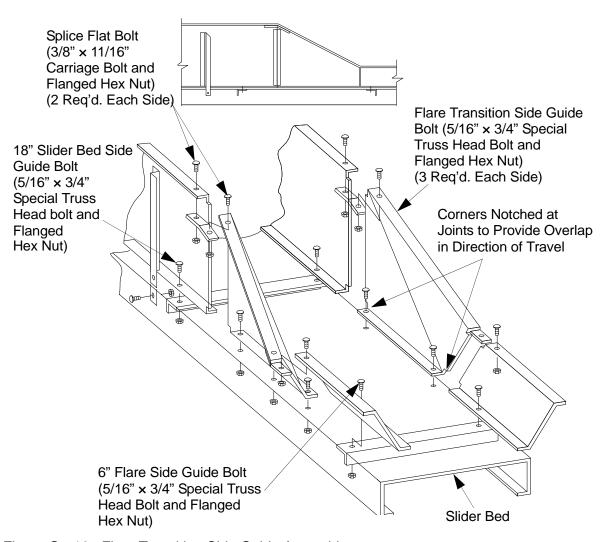


Figure G - 16 Flare Transition Side Guide Assembly



Installing (Threading) the Belt

After assembling the conveyor components, install (thread) the belt.

Before installing the belt, make certain that:

- All frame sections are level, properly aligned, and securely anchored
- All pulley and roller shafts are perpendicular to the conveyor frame
- All idler pulleys and rollers rotate freely
- No dips or humps exist along the conveyor bed surface

To install the belt:

- 1. By turning the take-up screws, bring the take-up pulley within 1" of the positions of minimum travel. See Figure G 17 and Figure G 18.
- 2. Starting at either end of the conveyor, thread the belt under the end pulley, over the snub and return rollers and around the drive and pulleys. Follow the belt path that matches your conveyor.
- 3. Place the belt up and over the end pulley(s), and bring the ends together on top of the bed as near to an end idler/take-up pulley as possible.

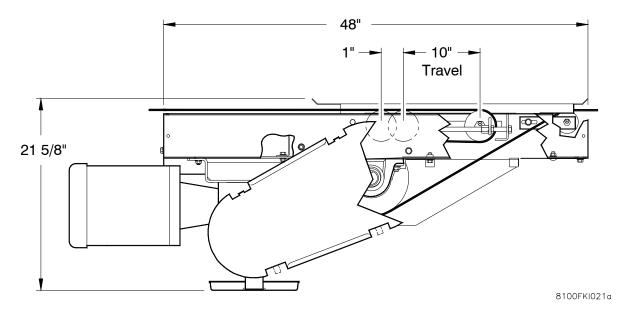


Figure G - 17 Intermediate Drive with Take-Up

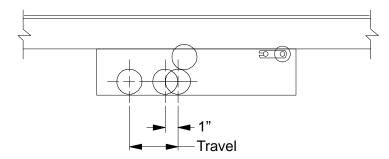


Figure G - 18 Center Take-Up



Belt length requirements are shown in Table G 2.

Table G 2: Belt Lengths

Style	Series					
Style	600	800	SA2000	SA2000		
1	5'-0"	6'-0"	-	-		
2	-	-	8'-0"	8'-0"		
3B	9'-0"	10'-0"	-	-		
3C	5'-0"	6'-0"	-	-		
3F	15'-0"	16'-0"	-	-		
3G	14'-0"	15'-0"	-	-		
4B	-	-	11'-0"	10'-0"		
4C	-	-	8'-0"	8'-0"		
4D	-	-	16'-0"	15'-0"		
4E	-	-	15'-0"	14'-0"		

Cutting the Belt Square

To assure against many common belt problems, square belt ends before lacing. A properly squared belt trains correctly and distributes stress evenly through the splice.

To cut the belt ends:

 Pull the belt ends together and secure them to the bed with appropriate clamps. See Figure G - 19.

If excess belt remains, overlap the belt ends and pull the belt until the belt sag between the return rollers is about 1" (with conveyor take-up at minimum take-up position); then mark the cut line with chalk or a pencil.

- 2. Cut belt ends precisely square to ensure proper belt tracking and even distribution of the tension load through the belt splice:
 - Using chalk or pencil, mark the center of the belt at a number of points about 1' apart in the vicinity of the planned cut.
 - Using a straightedge, mark the centerline of the belt by passing the line through as many center marks as possible.

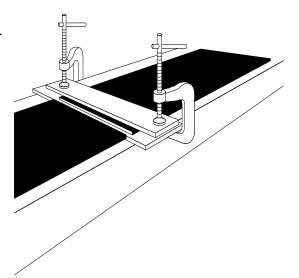


Figure G - 19 Cutting the Belt

- Using a steel square, mark the cut line perpendicular to the drawn centerline.
- Carefully cut the belt with a sharp knife or belt cutting tool.
- 3. Chamfer corners on squared cut ends of the belt by cutting off a triangle measuring 1/2" along the belt width by 1-1/2" along the belt length.

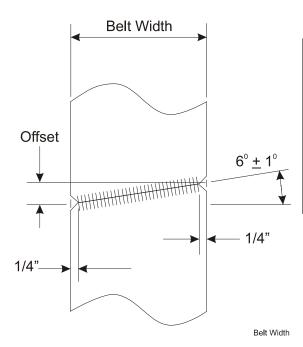


Splicing the Belt

Splice the belt with the supplied lacing. Follow the lacing manufacturer's instructions.

Replacing the Belt(s)

When replacing the belt(s), it may be beneficial in certain applications to splice the belt on a bias to reduce noise. When the belt is spliced on a bias, Intelligrated engineering requires the angle of the splice to be less than 7 degrees. Use the table below as a guide for common belt widths and dimensions. Each end of the belt must be cut at the exact same angle to ensure proper belt tracking. Be sure to take the offset measurement before trimming 1/4" from the corners, so as not to exceed the maximum bias angle.



Common Belt Widths	Offset Dimension for 6 Degree Bias
12"	1-1/4"
18"	1-7/8"
24"	2-1/2"
30"	3-1/8"
36"	3-13/16"



Installing the Underside Guard - Intermediate Sections Horizontal

Place the guard panels inside the bed so they are supported by the lower flanges of the bed. To properly align the support cutouts, start at the end of a standard length Intermediate Section.

The number and size of guard panels supplied depends on the size of the bed section:

- 12'-0" bed section six 2'-0" long panels.
- 10'-0" bed section four 2'-6" long panels.
- 7'-6" bed section three 2'-6" long panels.
- 5'-0" bed section two 2'-6" long panels.

Slide the panels longitudinally to butt the end flanges of adjacent panels. Fasten the flanges using a 1/4" × 1/2" round head machine screw. See Section View A-A, Figure G - 20.

Incline/Decline

This guard is designed for horizontal conveyors and incline/decline conveyors up to 15°.

For inclines/declines 5° to 15°, fasten one guard panel per conveyor section to the slider bed flanges, to prevent any movement of the panels downhill while the conveyor is running. Use self-tapping screws. See Figure G - 20. For inclines or declines greater than 15°, fasten all panels to the bed.

The following Powered Trash Belt Conveyor components ship with underside personnel guards and factory-assembled:

- End Drive
- Intermediate Drive
- End Idler
- Center Take-Up
- Two-Pulley Hitch
- In-Line Transfer
- Upper Bend Unit

Guards removed during installation or check out must be reinstalled prior to conveyor operation.

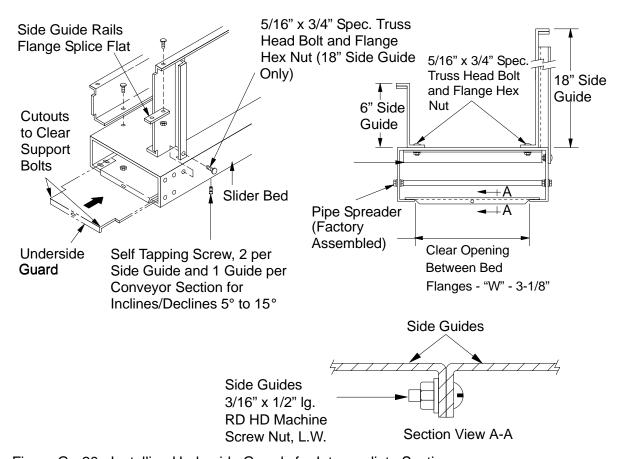


Figure G - 20 Installing Underside Guards for Intermediate Sections

Installing Electrical Wiring

Electrical wiring must be installed by a licensed electrician familiar with the operation and adjustment requirements of the conveyor. The conduit and wiring apparatus must not interfere with required access to the conveyor.

A lockable disconnect switch with an appropriate service rating must be mounted near and wired to each drive motor. All power connections to the motor must be routed through the disconnect switch. This allows service personnel making repairs or adjustments to the drive to physically lockout the motor.

After completing the wiring, the electrician should "bump" each drive motor, and if necessary, modify the connections to achieve proper rotation for the required direction of belt travel.



Pre-Startup Preparation

To ensure the safety of personnel, and proper operation of the conveyor, perform the following pre-operation checks before and during conveyor startup.

Pre-Operation Checklist

Perform the following:

- 1. Check that the power unit has proper oil level and that the vent plug is installed, as shown on the installation and maintenance tag attached to the power unit.
- 2. Check that the belt has been properly threaded.
- 3. Check that the lacing connection has been properly made.
- 4. With the chain guard removed, check alignment, lubrication, and tension of the drive chain and sprockets, as shown on the chain Maintenance Label, located on the inside of the chain guard. Also, check that the set screws in the sprocket hubs are tight.
- 5. Check that the conveyor is free of all foreign objects.
- 6. Check that the power unit has been properly connected.
- 7. Check that all personnel are clear of the conveyor, and that they are aware the conveyor is about to be started.
- Check that all safety guards are in place.
- 9. Jog the power unit and check for proper belt travel.
- 10. Adjust the take-up pulley until the belt tension is sufficient to prevent the belt from slipping on the drive pulley.

WARNING: Ensure that the take-up pulley is adjusted equally on both sides; otherwise, the belt will run off the pulley.

Review all Safety Precautions listed in this Section. See "Safety Precautions" on page G 2.



Belt Tracking

At this point, the conveyor should have been properly installed, all sections aligned, and all carrier rollers level and square with the frame. The belt is installed with all pulleys, snub, and return rollers at right angles to the conveyor frame, and all pre-start-up precautions observed. Now you are ready to track the belt.

WARNING:

Belt tracking is performed while the conveyor is running, and is therefore dangerous. Only trained and qualified personnel must perform the belt tracking function. Personnel must always be alert for any unsafe condition and use extreme care when tracking the belt.

Principles of Belt Tracking

You must understand the principles of belt tracking in order to properly track the belt:

- Crowned Pulleys Belts connecting parallel shafts tend to run toward that part of the pulley which is largest in diameter. Therefore, pulleys are crowned to keep the belt on center.
- **Taut Belt** The belt must be sufficiently tensioned, so it does not slip on the drive pulley. Do not overtighten.
- Parallel Shafts If the pulley shafts are not parallel, the belt will creep toward the side
 where the shaft centers are closest. For pulley adjustment, see Figure G 23 through Figure G 25.

Instructions for Belt Tracking

- 1. When first tracking the belt, place qualified personnel at each end of the conveyor to observe possible belt tracking problems.
- 2. It is seldom possible to make pulley shafts perfectly parallel. Make corrective adjustments with the snub rollers. See Figure G 23 through Figure G 27.
- 3. A common mistake is to adjust the end pulleys for any belt tracking problem. Adjust the end pulleys only for mis-tracking on the pulley at the discharge end of the conveyor. See Figure G 23.
- 4. Note that the belt creeps toward the side of the pulley or snub roller that it touches first. Make adjustments accordingly. See Figure G 23 through Figure G 27.
- 5. All adjustments should be slight. Allow sufficient time for the belt to react to the adjustment, especially if the conveyor operates at slow speeds. Multiple revolutions of the belt are required for the belt to reach equilibrium.

Examples of Belt Tracking

As shown in Figure G - 23 and Figure G - 24, the belt always creeps to the right side of the conveyor. The right side of the conveyor is the side to your right when you are facing in the direction of forward travel of the product. See Figure G - 21. Forward travel is the direction of travel used to convey the largest amount of product.

The terminal ends are identified by their location in relation to the forward direction of product travel.



The conveyor's infeed end (forward travel) is referred to as the "tail" end, and the discharge end is the "head" end. See Figure G - 22.

Reversing travel is not applicable to the Powered Trash Belt Conveyor.

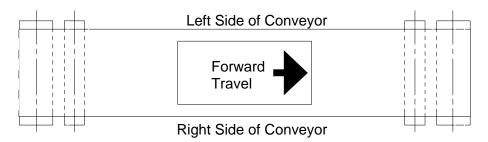


Figure G - 21 Direction of Travel

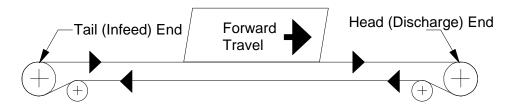


Figure G - 22 Product Travel From Tail End to Head End

During forward product travel, if the belt creeps to the right on the head pulley (drive/idler), adjust the right side of the head pulley in direction "F" (Forward) or the left side in direction "R" (Rearward). See Figure G - 23.

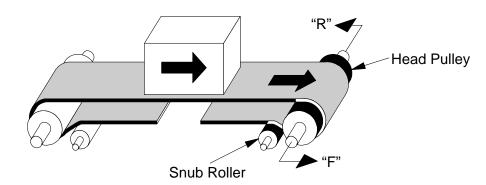


Figure G - 23 Adjusting the Right Side of the Head Pulley



During forward product travel, if the belt creeps to the right on the tail pulley, adjust the right side of the tail end snub roller in direction "R" or the left side in direction "F". See Figure G - 24.

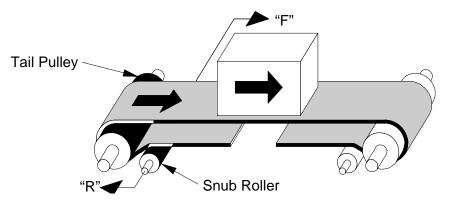


Figure G - 24 Adjusting the Right Side of the Tail End Snub Roller

During forward product travel, if the belt creeps to the right side of Pulley A, adjust the right side of Pulley A in direction "F" or the left side in direction "R". See Figure G - 25.

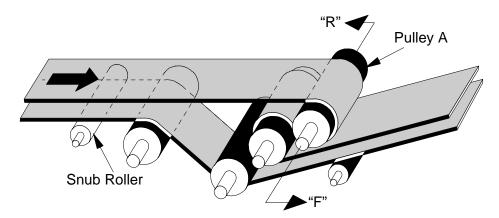


Figure G - 25 Tracking the Two-Pulley Hitch



During forward product travel, if the belt creeps to the right of the upper bend, adjust the right side of the upper bend roller in direction "F" and/or the left in direction "R". See Figure G - 26.

Proper installation is a key factor in tracking the belt at the upper bend. Make certain the unit is level from side-to-side, and that both sides are adjusted evenly.

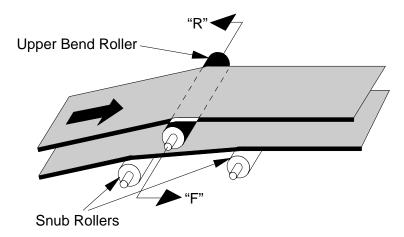


Figure G - 26 Adjusting Upper Bend Snub Rollers for Tracking the Return Run of Belting With the belt travel as shown in Figure G - 27, if the belt creeps to the near side of the drive and take-up pulleys, adjust the near side of snub roller A in direction "R" and/or the far side in direction "F."

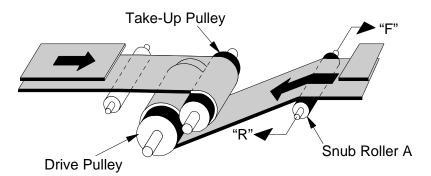


Figure G - 27 Adjusting the Near Side of the Snub Roller A for Tracking Intermediate Drives



Belt Tracking Checklist

Perform the following:

- 1. Check the entire belt path for serious tracking problems that require immediate attention.
- Watch the belt's position at a given point for at least one complete rotation. If the belt wanders off center and then returns to the center position, no adjustments are necessary.
 When the belt wanders off center, it is caused by camber in the belt length which will tend to straighten out in time.
- 3. If the upper run of belt runs "off-center" the full length of the conveyor, first make adjustments of the snub roller as shown in Figure G 24. Then, if necessary, adjust the end pulley as shown in Figure G 23.
- 4. Observe the belt's return run and its position on each return roller. Adjust any roller that causes the belt to move off center.
- 5. If the belt mis-tracks at the upper bend unit, adjust the upper bend or snub rollers as shown in Figure G 26.
- 6. If the belt mis-tracks at the Intermediate Drive unit, adjust the snub roller proceeding the drive as shown in Figure G 27.

Adjusting Belt Tension

Tension the belt by adjusting the Take-Up Pulley. See Figure G - 28 through Figure G - 30. Adjustments must be made equally on both sides and in small increments.

Adjust the Take-Up Pulley so that the belt tension is just tight enough to prevent the belt from slipping on the drive pulley. Excess tension will reduce the life of the belt, lacing, snub rollers, and pulley bearings.

WARNING:

You may need to remove the chain guard before adjusting the Take-Up Pulley. When adjusting the Take-Up Pulley, stay clear of the chain and drive components.

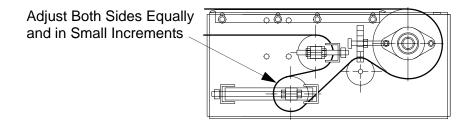


Figure G - 28 End Drive Take-Up

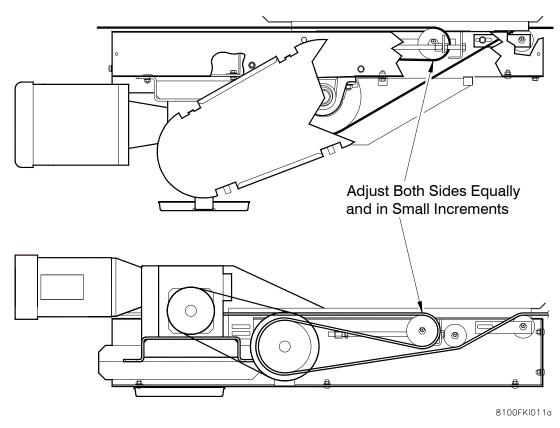


Figure G - 29 Intermediate Drive Take-Up



Adjusting Snub Rollers

A typical Snub Roller mounting is illustrated in Figure G - 30. The assembly of the clips, bolts, etc. is common for all End Drive Take-Ups and Idlers. To adjust, loosen both the bolt and nut on one side and shift the roller as required.

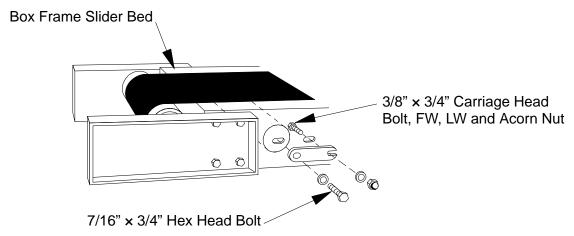


Figure G - 30 Adjustable Snub Roller Assembly

End Drives also have a Snub Roller. Adjustment requires that the two bolts be loosened before the roller can be shifted. See Figure G - 31.

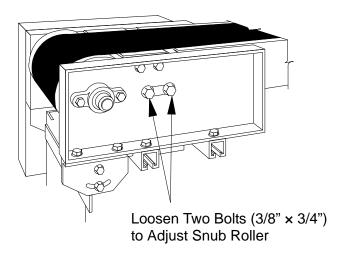


Figure G - 31 Adjusting an End Drive Snub Roller





SECTION H:MAINTENANCE

General

The recommended inspection and maintenance functions described in this Section apply to intermittent-duty conveyor applications. Additional functions may be required for continuous-duty operation or extreme environmental conditions.

Maintenance Safety

WARNING:

Maintenance must be performed only by qualified personnel who are trained in normal and emergency operations of the conveyor and who are knowledgeable of all safety devices, their locations, and functions.

Before performing maintenance on a conveyor, make certain that the conveyor's power disconnect is locked in the OPEN position and tagged to prevent accidental or unexpected application of power.

Do not perform maintenance while the conveyor is running unless specifically instructed to do so in this manual.

Note: Other than belt tracking and checking chain tension, it is NOT necessary to have the conveyor turned ON to perform any of the work described in this section.

Before restarting a conveyor:

- Remove all foreign objects from the conveyor.
- Be sure that all guards and safety devices are properly installed and working.
- Make sure that all persons are clear of the conveyor and are aware that the conveyor is about to be restarted.

New Installations

All newly installed equipment should be inspected frequently and serviced as needed during the first 40 hours of operation. See "Initial Start-up and Run-in Period" on page H - 2. Thereafter, an appropriate maintenance program should be established and followed. See Table H 1.

Maintenance Logs

Maintenance logs should be keep on all conveyor installations. Each log sheet should show:

- The date when an Inspection or Maintenance function was performed
- Details of the Inspection or Maintenance function
- Names of personnel performing the Inspection or Maintenance function



Initial Start-up and Run-in Period Chain and Sprockets

Check the drive chain tension daily for the first week of operation, then monthly. Refer to the "Chain Maintenance" label on the inside of chain guard.

WARNING:

Chain tension must be checked while the conveyor is running with the chain guard removed. When checking, be careful to stay clear of the chain and drive components.

Power Unit Reducer

Grove and Reliance reduces are supplied with "lifetime" synthetic lubricants (Mobile SHC-634) that do not need to be changed after the unit is put into service.

Note: All reducers tend to run hot when first put into operation until the maximum break-in efficiency is reached (approximately 120 hours).



Scheduled Inspections and Maintenance

Intervals indicated for performing inspections and maintenance should be considered for an 8 hour per day operation. An application may subject the equipment to conditions that would necessitate more frequent maintenance. This may best be determined by performing maintenance more frequently when the conveyor is first put into operation, and then lengthening the intervals based on experience.

Table H 1: Scheduled Maintenance

						Item (Check	(
	Components	Lubrication	Oil Level	Tension	Wear	Alignment	Fasteners	Set Screws	Proper	Physical	Operation
	Belt			Х	Х	Χ				Х	
	Belt Lacing									Х	
	Carrier/Belt Return Rollers									Х	Х
Weekly	Electrical Devices								Х	Х	Х
	General Structure						Χ			Х	Х
	Power Unit - Reducer		Х								
	Safety Guards/Devices								Х	Х	Х
	Bearings - External						Х	Х		Х	
	Drive Chains and Sprockets	Х		Х	Х	Х	Х	Х		Х	
	Timing Belts and Sprockets			Х	Х	Х	Х	Х		Х	Х
Monthly	Take-up/Idler Pulleys									Х	Х
Monthly	Power Unit - Motor						Х			Х	
	Power Unit - Reducer						Х			Х	
	Pulley Lagging									Х	
	Supports and Hangers						Х			Х	
Semi	Bearings - External	Х									
Annually	Power Unit - Motor	Х									
1040 hrs.	Power Unit - Reducer	Х	Х								



Daily Inspections

General walk-through inspections of the conveyor equipment during daily plant operation are recommended. Listen for unusual noises and carefully observing the system. For continuous duty applications, conduct conveyor inspections once each shift.

Frequently check equipment safety guards, warning signs, lights, and alarms associated with the operation of the conveyor system and keep them in good condition to ensure the safety of all plant personnel. Report and promptly correct any unusual conveyor noise, oil leaks, and operational problems.



Weekly Inspections

Belting

Check that the belt is tracking properly along the entire conveyor length. Make appropriate adjustments of snub rollers, etc. if required; check that the belt tension is sufficient to prevent the belt from slipping on the drive pulley under the maximum required load. Remove any buildup of product spillage.

Belt Lacing

Check the lacing for damage or protrusions which might cause damage to the conveyor or product. If the lacing needs to be replaced and the take-up permits, cut both ends of the belt square and re-splice. If the take-up does not permit, cut and lace in a short length of belting (1'-0" long minimum).

Carrier and Belt Return Rollers

Check that all rollers are in place and turning freely. Remove any buildup of dirt or product spillage. Take care in keeping cleaning materials from coming in contact with the ball bearings.

General Structure and Operation

Check the conveyor's physical condition, looking for loose fasteners, and damaged or wearing components. Listen for unusual noises such as squeaking bearings, chains jumping sprockets, etc.

Check that the conveyed product travels along the length of the conveyor without obstruction or hesitation.

Power Unit Reducer

Check for signs of oil leaking on the floor and/or in the drip pan. If leaking persists or the amount of leakage is significant, repair or replace the unit. Until corrections have been made, closely monitor the unit's oil level.

Safety Guards and Devices

Check that the safety guards, warning signs, light, and alarms are in place and in proper working condition. Check that all Emergency Stop pull-cords and/or push buttons are functioning properly.

Electrical Devices

Periodically inspect and adjust photocells, proximity sensors, limit switches, etc. as needed. Wipe lenses and reflectors on photoelectric devices clean on a daily basis. For additional maintenance provisions, refer to the appropriate instructions provided by vendors.



Monthly Maintenance

External Bearings

Check that all mounting bolts, set screws, etc., are securely tightened, and that no lubricant is coming out of the seals. Listen for any unusual noises.

Internal Bearings

Check that the bearings are fully-pressed into the roller tube, and that the lubricant is not coming out of the seals. Listen for any unusual noises.

Power Unit Motor

Remove any build-up of dirt/dust around the motor vent openings. Check that all mounting bolts are securely tightened and that the motor lead wires are securely connected.

Unless specified, wick-oil sleeve bearings should be lubricated every 2000 to 4000 hours. After the first 4000 hours of operation lubricate with 3 or 4 drops of light grade mineral oil or SAE10W motor oil. Refer to the motor lubrication plate or vendors instruction tag(s).

Power Unit Motor/Brake

Due to normal wear, the brakes require periodic inspection and adjustment. For instructions, refer to the vendors installation and maintenance manual or contact the manufacturer for additional information.

Power Unit Reducer

Check the oil level while the unit is warm, but not running. If required, add oil through the "fill" hole until the oil begins to run out of the "oil level" hole. All standard reducers are filled by the manufacturer with a synthetic gear lubricant. When replenishing the oil, be sure to use the same brand and type. DO NOT MIX lubricants. For further information, refer to the instruction tag attached to the unit.

To prevent oil leakage, apply Teflon tape or Permatex to the threads of the fill plug and oil level plug before reinstalling. Properly install and tighten the plugs before putting the unit back into operation.

Hub City reducers only - Wipe off any dirt on the breather plug which could clog the unit and interfere with its operation.

Power Unit Sprockets

Check sprocket alignment by placing a straight edge across the face of the sprockets simultaneously.

Inspect chain sprockets for need of lubrication. If required, lubricate the chain lightly with SAE 30 oil. DO NOT use grease. Also check teeth for wear. Realign if required,

Power Unit Chains

Lubricate and check tension per instructions given on the "Chain Maintenance" label located on the inside of the chain guard. Remove any dirt or dried oil with a kerosene soaked rag.



Power Unit Timing Belts

Adjust reducer to remove any belt slack and achieve a snug belt tension.

Use the following steps to check belt tension:

- Measure the center distance between the driver and driven sprockets to determine the belt span length. See Figure H - 1.
- Determine the correct deflection for the span as follows: Deflection = Span Length ÷ 64.
- Use a spring-scale tension checker (possible source Browing) to determine the force required to produce the required deflection. See Table H 2.

Table H 2: Timing Belt Deflection/Force

В	Deflection	
Pitch	Force	
	12mm	7 lbs.
8mm	22mm	15 lbs.
	35mm	20 lbs.
Pitch	42mm	23 lbs.

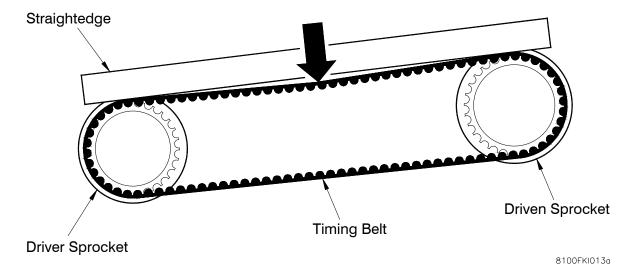


Figure H - 1 Measuring Timing Belt Deflection

Drive Sprockets

Check the alignment by placing a straight-edge across the face of both sprockets simultaneously. Also check for wear on the sprocket teeth and side bars of the chain. If loose, tighten the sprocket fasteners.

Drive Pulley and Lagging

Check the pulley alignment and make certain that all mounting bolts are securely tightened. Check for worn or damaged lagging on the drive pulley. Repair or replace as required.

Supports and Hangers

Check that all floor supports and/or ceiling hangers are in good physical condition and have not been damaged. Check that all fasteners are securely tightened and that none are missing.



Semi-Annual Maintenance

Power Unit Motor

Units up to 5 HP are lubricated for life. For 7.5 HP motors, refer to the manufacturer's motor lubrication plate or operating instruction tag wired to the motor.

Power Unit Reducer

Check that all fasteners are secure.

External Pulley Bearings

All external bearings have lubed-for-life bearing cartridges, and do not require periodic lubrication.

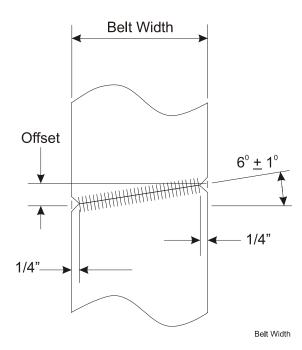
If desired, the bearings may be re-lubricated using the grease-fitting that is provided in all bearing housings. Once grease is added, the bearing must be re-lubricated every 6 months with a lithium based ball bearing grease or compatible grease conforming to NLG1 Grade 2 consistency.

Add the grease slowly and sparingly while the pulley is rotating until a slight showing of grease forms around the seals. DO NOT OVER LUBRICATE. Too much grease may damage the seals. If a bearing is over greased; remove the fitting to allow the excess grease to escape. Replace the fitting and wipe clean before putting the conveyor back into operation.



Replacing the Belt(s)

When replacing the belt(s), it may be beneficial in certain applications to splice the belt on a bias to reduce noise. When the belt is spliced on a bias, Intelligrated engineering requires the angle of the splice to be less than 7 degrees. Use the table below as a guide for common belt widths and dimensions. Each end of the belt must be cut at the exact same angle to ensure proper belt tracking. Be sure to take the offset measurement before trimming 1/4" from the corners, so as not to exceed the maximum bias angle.



Common Belt Widths	Offset Dimension for 6 Degree Bias
12"	1-1/4"
18"	1-7/8"
24"	2-1/2"
30"	3-1/8"
36"	3-13/16"



Troubleshooting

This section outlines basic troubleshooting provisions for the Trash belt conveyor. For troubleshooting the specific conveyor system installed, always check the maintenance information. Basic troubleshooting is outlined in Table H 3.

CAUTION:

Do not clear jams or reach into any unit before first turning off the equipment power source(s) and making certain that all moving parts are fully stopped. To avoid personal injury or equipment damage, lockout and tag the conveyor operation control(s) before attempting to correct any malfunction.

Table H 3: Basic Troubleshooting Problems and Solutions

Problem	Cause	Solution
Conveyor does not start.	Electrical power shut off or control circuit not energized.	Check that system control panel(s) are energized. Be certain emergency stop devices are not activated.
	System control devices (photocells, limit switches, etc.) out of adjustment or defective.	Adjust or replace.
	Motor overload block open.	Check conveyor drive system and overload sizing before resetting.
Conveyor shuts off.	Accumulation photocell or other control device(s) actuated or defective.	Check conveyor accumulation or obstruction of control device; replace control device if defective.
	Emergency stop activated.	Correct condition and reset according to control logic.
	Power or component failure at system control center.	Refer to vendor manuals.
	Motor overload.	Check conveyor drive system and overload sizing before restarting.
One part of belt creeps to one side.	Belt ends not cut square.	Cut the belt ends perfectly square using a T-square.



Table H 3: Basic Troubleshooting Problems and Solutions (Continued)

Problem	Cause	Solution
Entire belt creeps to one side.	Improper loading of belt.	Center the product on the belt. Load in direction of travel.
	Belt shifts to low side. The base structure or conveyor frame is not level or is crooked.	Stretch a string along the edge of the frame, check alignment of the frame and correct. Next, check the level of support structure.
	Alignment of pulleys; drive, tail, pulleys, or snub rollers are out of line or not perpendicular with the center line of the conveyor.	Use a T-square against the edge of the conveyor to recheck and square the pulleys.
	Underside of the belt is dirty.	Remove foreign matter, because it creates a new crown on the pulley/roller face adversely affecting the tracking.
Belt creeps to one side in head (discharge) pulley area.	Head pulley is out of alignment (not perpendicular with the center line of the conveyor).	First, adjust the snub roller. Second, realign the head pulley by advancing (belt travel direction) the end of the pulley to which the belt has shifted.
Belt creeps to one side in tail (infeed) pulley area.	Tail pulley is out of alignment (not perpendicular with the center line of the conveyor).	First, adjust the snub roller. Second, realign the tail pulley by advancing (return belt travel direction) the end of the pulley to which the belt has shifted.
Belt wanders irregularly.	The conveyor is over-belted. This results in the belt being too stiff to properly operate over the pulley diameters.	Change to the proper belt or use pulleys with larger diameters.
	Off center or improper loading.	Correct loading procedure.
Edge wear is excessive.	Belt edges fold up on conveyor guards and frame.	Remove the rough areas on the conveyor guards or frame.
	Belt shifts to opposite side and rubs excessively due to side loading.	Loading in direction of belt travel will improve this condition.
	Refer to previous Belt Problems to eliminate edge rubbing.	



Table H 3: Basic Troubleshooting Problems and Solutions (Continued)

Problem	Cause	Solution
Belt fasteners pulling out.	Fasteners are incorrect size	Re-lace the belt with proper size fasteners.
	Too much tension on belt.	Relieve tension until belt will run without slipping on the drive pulley.
	Pulley diameters too small for the thickness of belt used.	Replace with larger diameter pulleys or thinner belt, if practical.



SECTION I: PARTS IDENTIFICATION

General Information

The purpose of this section is to identify parts for a quality preventative maintenance program and to minimize the chances for extended down time.

The following pages illustrate the location of these parts as they apply to each particular unit. Keep in mind that these illustrations only apply to the standard product line. These items will show on the bill-of-material as a coded item.

There will be items on the bill-of-material such as gearmotors, sprockets, chain, etc., that will show up on the price sheets only.

Intermediate Sections

Box Bed



Figure I - 1 Box Bed Intermediate Section



End Drive

End Drive with Take-Up

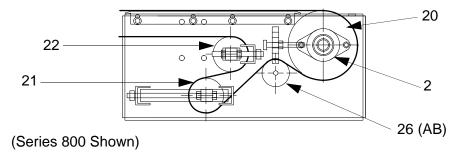
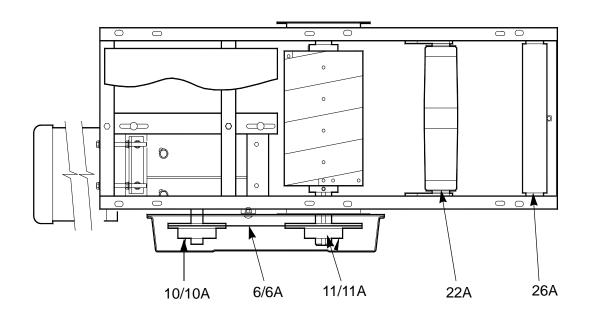


Figure I - 2 End Drive Section with Take-Up



Intermediate Drives

SA2000 - Intermediate Section



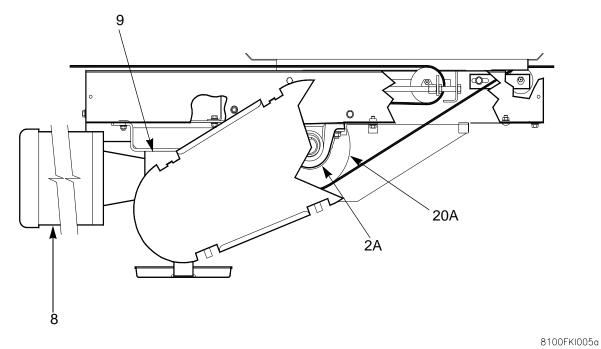
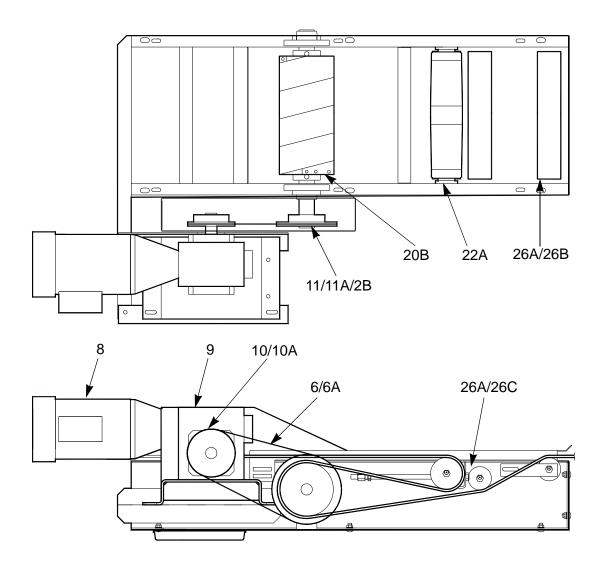


Figure I - 3 SA2000 - Intermediate Section



SA2001 - Intermediate Section - Low Profile



8100FKI006

Figure I - 4 SA2001 - Intermediate Section - Low Profile



End Idler Sections

Take-Up

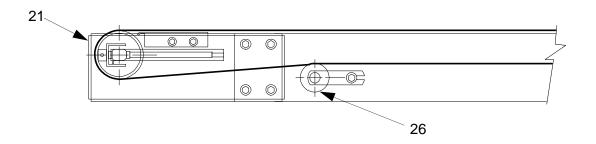


Figure I - 5 Idler Take-Up

PTO

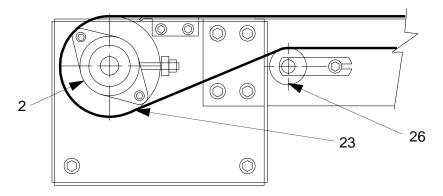


Figure I - 6 Idler PTO



Auxiliary Take-Up Sections Manual (3.5" Pulleys)

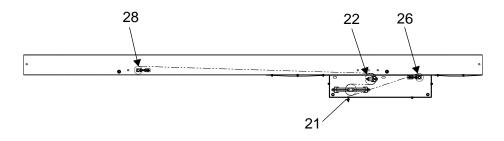


Figure I - 7 Auxiliary Take-Up Section - Manual (3.5" Pulleys)

Manual - 6" Pulleys

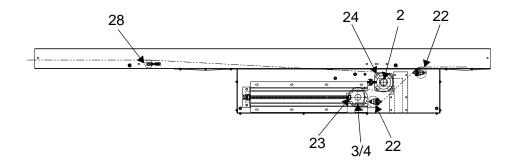


Figure I - 8 Auxiliary Take-Up Section - Manual (6" Pulleys)

Automatic (Air) - 6" Pulleys

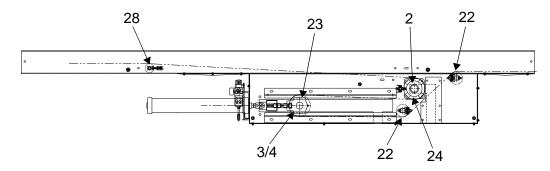


Figure I - 9 Auxiliary Take-Up Section - Automatic (Air) (6" Pulleys)



Power Units Under-Hung Mount

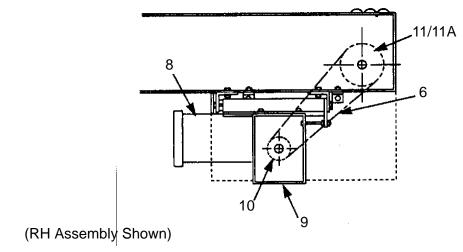
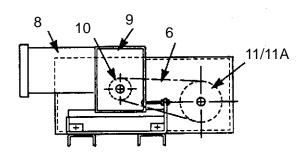


Figure I - 10 Power Unit - Under-hung Mount

Side-Mounted



(RH Assembly Shown)

Figure I - 11 Power Unit - Side-Mounted

Under-hung Mount Side-Mount **Assembly Brand** Designation **Assembly Brand** Designation 3 Grove Grove Series 4/6/800 (RH-Shown) Series 4/6/800 (LH-Opp) SA2000 (RH-Shown) SA2001 (LH-Opposite) L1 K1 Reliance Reliance Grove 2 Grove 3 Series 4/6/800 (LH-Opp) Series 4/6/800 (RH-Shown) SA2000 (LH-Opposite) SA2001 (RH-Shown) K1 L1 Reliance Reliance

Table I 1: Reducer Assembly Designation



Miscellaneous Sections

In-Line Transition Unit - Horizontal

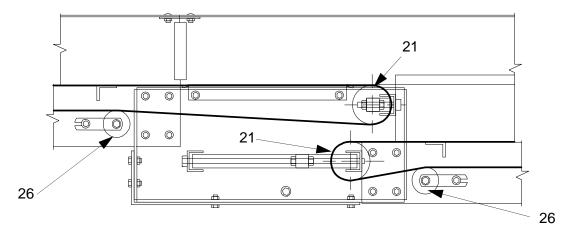


Figure I - 12 In-Line Transition Unit (Horizontal)

In-Line Transition Unit - Inclined

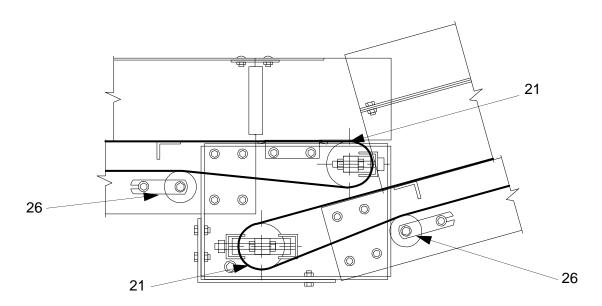


Figure I - 13 In-Line Transition Unit (Inclined)



Two-Pulley Hitch with Variable Degree Incline

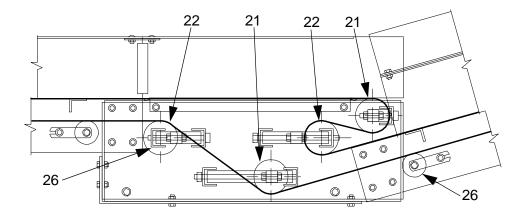


Figure I - 14 Two-Pulley Hitch with Variable Degree Incline

Upper Bend Unit

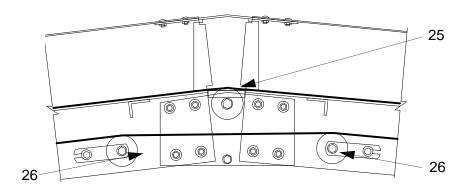


Figure I - 15 Upper Bend Unit



Non-Width Related Parts

Key No.	Part Description	Part Number
1	Air Cylinder 4x24 Flange Mounted Aluminum Body	27-2832
	Bearing, 2-Bolt Flange, 1-3/16" BR - Pressure Lubricated	40-0985
	Bearing, 2-Bolt Flange, 1-7/16" BR - Pressure Lubricated	40-0987
2	Bearing, 2-Bolt Flange, 1-11/16" BR - Pressure Lubricated	40-0990
	Bearing, 2-Bolt Flange, 1-15/16" BR - Pressure Lubricated	40-0995
	Bearing, 4-Bolt Flange, 1-15/16" BR - Pressure Lubricated	40-0970
2A	Bearing, 2-Bolt Flange, 1-11/16" BR - Pressure Lubricated (SA2000)	7522411
2B	Bearing, Pillow Block, 1-11/16" BR - Pressure Lubricated (SA2001)	7712387
3	Bearing, Take-Up, 1-15/16" BR (5/16" Wide Slot)	70-0145
4	Bearing, Take-Up, 1-15/16" BR (11/16" Wide Slot)	70-0161
	Bearing, (3174-GT) for No. G251GT Roller (11/16" Hex BR)	35-0200
5	Bearing, (Miller MF-2) for No. G251HS Roller (11/16" Hex BR)	35-0372
	Bearing, for 3.5" Diameter, Take-Up and Idler Pulley (1-1/8" SQ BR)	35-0360
	Chain - RC-50	20-0970
	Chain - RC-50 Connector Link	20-0040
	Chain - RC-60 (High-Speed)	20-0987
6	Chain - RC-60 Connector Link	20-0986
O	Chain - RC-80 (High Speed)	20-0989
	Chain - RC-80 Connector Link	20-0070
	Chain - RC-100 (High Speed)	20-1000
	Chain - RC-100 Connector Link	20-0080
	Timing Belt - Pitch / Width / Length	
	8mm / 21mm / 1200mm	7001504
6A	8mm / 21mm / 1280mm	7001506
υA	8mm / 36mm / 1200mm	7001512
	8mm / 36mm / 1280mm	7001514
	14mm / 37mm / 1400mm	7001519
7	Reg and Gauge 0-160 w/Bracket	27-1741
12	Pressure Switch 10-150 psi	30-2407



	Part Description	Part Number						
Key No.	0.5	Ва	ldor	Reliance				
110.	C-Face Motor	Motor	Brake Motor	Motor	Brake Motor			
	208-230/460V-3PH-60HZ - St	andard Efficiency	,		1			
	1/2HP 56C	7155562	7742489	7001600	7001631			
	3/4HP 56C	7150592	7150962	7001601	7704084			
	1HP 56C	7745139	7716179	7001602	7172635			
	1-1/2HP 145C	7778225	7716197	7001603	7001511			
	2 HP 145TC	7274611	7325286	7001604	7704091			
	3 HP 182TC	7747525	7747295	7001605	7704708			
	5 HP 184TC	7747294	7817618	7001606	7001612			
	7-1/2 HP 213TC	7329946	7005792	7001607	7001613			
	208-230/460V-3PH-60HZ - Premium Efficiency							
	1/2HP 56C	7002040	7002030	7830000	7001621			
	3/4HP 56C	7002041	7002031	7001615	7001622			
	1HP 56C	7002042	7002032	7888089	7001623			
	1-1/2HP 145C	7002043	7002033	7001632	7001625			
	2 HP 145TC	7002044	7002034	7001617	7001626			
	3 HP 182TC	7002045	7002035	7001633	7001627			
	5 HP 184TC	7002046	7002036	7001618	7001628			
0	7-1/2 HP 213TC	7002047	7002037	7001619	7001629			
8	575V-3PH-60HZ - Standard Efficiency							
	1/2HP 56C	7717583	-	7002088	-			
	3/4HP 56C	7717584	7152666	7002089	7002090			
	1HP 56C	7717598	7717586	-	7002091			
	1-1/2HP 145C	7331614	-	-	-			
	2 HP 145TC	7763322	-	-	-			
	3 HP 182TC	7362599	-	-	-			
	5 HP 184TC	7866559	-	-	-			
	7-1/2 HP 213TC	7005793	-	-	-			
	575V-3PH-60HZ - Premium E	fficiency						
	1/2HP 56C	7002050	7002060	7001621	7002092			
	3/4HP 56C	7002051	7002061	7001622	7002093			
	1HP 56C	7002052	7002062	7001623	7002094			
	1-1/2HP 145C	7002053	7002063	7001625	7002095			
	2 HP 145TC	7002054	7002064	7001626	7002096			
	3 HP 182TC	7002055	7002065	7001627	7002097			
	5 HP 184TC	7002056	7002066	7001628	7002098			
	7-1/2 HP 213TC	7002057	7002067	7001629	7002099			



	Ite	em	Part Number					
	C-Face Reducer							
				Asse	mbly			
17			Series 600 aı	nd 800 RU-LS	Series 600 aı	nd 800 LU-RS		
Key No.			SA2000 - S	Shown (RH)	SA2000 -	OPP (LH)		
			SA2001 -	OPP (LH)	SA2001 - S	Shown (RH)		
	Red	ucer	Grove	Reliance	Grove	Reliance		
	Reducer Model	Motor Frame	3	L1	2	K1		
	5:1 Ratio							
	218	56C	7005800		7005801	-		
	218	145TC	7005802	-	7005803	-		
	220	56C	7005804	-	7005805	-		
	220	145TC	7005806	-	7005141	-		
	220	184TC	7005807	-	7005808	-		
	224	145TC	7005809	-	7005810	-		
	224	182TC	7005035	-	7005811	-		
	226	56C	7030646	-	7030645	-		
	226	145TC	7030649	-	7030648	-		
	226	182TC	7005021	-	7030474	-		
^	226	184TC	7005021	-	7030474	-		
9	230	184TC	7005039	-	7005812	-		
	232	213TC	7005813	-	7005814	-		
	175	56C	-	7005899	-	7005900		
	175	145TC	-	7005901	-	7005902		
	200	56	-	7005920	-	7005921		
	200	145TC	-	7005922	-	7005923		
	200	182TC	-	7005924	-	7005925		
	262	56C	-	7005940	-	7005941		
	262	145TC	-	7005942	-	7005943		
	262	182TC	-	7005944	-	7005945		
	262	184TC	-	7005944	-	7005945		
	350	184TC	-	7005968	-	7005969		



	lte	em		Part N	umber	
	C-Face Reduc	er				
				Asse	embly	
			Series 600 a	nd 800 RU-LS	Series 600 ar	nd 800 LU-RS
Key No.			SA2000 - S	Shown (RH)	SA2000 -	OPP (LH)
				OPP (LH)		Shown (RH)
	Red	ucer	Grove	Reliance	Grove	Reliance
	Reducer	Motor				
	Model	Frame	3	L1	2	K 1
	7.5:1 Ratio	1	I	1	I	l
	220	56C	7005815	-	7005025	-
	220	145TC	7005159	-	7005027	-
	224	145TC	7005816	-	7005036	-
	224	182TC	7005817	-	7005818	-
9	230	184TC	7005819	-	7005820	-
9	232	213TC	7005821	-	7005822	-
	242	213TC	7005823	-	7005824	-
	200	56C	-	7005926	-	7005927
	200	145TC	-	7005928	-	7005929
	262	182TC	-	7005946	-	7005947
	350	182TC	-	N/A	-	N/A
	10:1 Ratio					
	218	56C	7005825	-	7005826	-
	220	56C	7005223	-	7005312	-
	220	145TC	7005827	-	7005828	-
	224	145TC	7005830	-	7005831	-
	226	56C	7031010	-	7031017	-
	226	145TC	7030471	-	7030470	-
	230	182TC	7005832	-	7005833	-
9	232	182TC	7031008	-	7031009	-
	232	184TC	7031008		7031009	-
	242	184TC	7005834	-	7005835	-
	242	213TC	7005836	-	7005837	-
	175	56C	-	7005903	-	7005904
	200	56C	_	7005930	-	7005931
	200	145TC	-	7005932	-	7005933
	262	56C	-	7005948	-	7005949
	262	145TC	-	7005950	-	7005951
	350	182TC	-	7005972	-	7005973



	Item		Part Number				
	C-Face Reduc	er	•				
				Asse	mbly		
16			Series 600 a	nd 800 RU-LS	Series 600 ar	nd 800 LU-RS	
Key No.			SA2000 - S	Shown (RH)	SA2000 -	OPP (LH)	
			SA2001 -	OPP (LH)	SA2001 - S	hown (RH)	
	Red	ucer	Grove	Reliance	Grove	Reliance	
	Reducer Model	Motor Frame	3	L1	2	К1	
	15:1 Ratio	l					
	218	56C	7005838	-	7005839	-	
	220	56C	7005221	-	7005840	-	
	220	145TC	7005033	-	7005841	-	
	224	56C	7005037	-	7005158	-	
	224	145TC	7005038	-	7005032	-	
	226	56C	7031016	-	7031014	-	
	226	145TC	7005086	-	7005030	-	
	230	182TC	7005142	-	7005731	-	
9	232	145TC	7005842	-	7005843	-	
	232	182TC	7005092	-	7005091	-	
	242	184TC	7005844	-	7005845	-	
	242	213TC	7005846	-	7005847	-	
	175	56C	-	7005905	-	7005906	
	200	56C	-	7005934	-	7005935	
	262	56C	-	7005952	-	7005953	
	262	145TC	-	7005954	-	7005955	
	350	145TC	-	7005974	-	7005975	
	350	182TC	-	7005976	-	7005977	



	Ite	em	Part Number					
	C-Face Reducer							
				Asse	mbly			
			Series 600 ar	nd 800 RU-LS	Series 600 ar	nd 800 LU-RS		
Key No.			SA2000 - S	Shown (RH)	SA2000 -	OPP (LH)		
			SA2001 -	OPP (LH)	SA2001 - S	hown (RH)		
	Red	ucer	Grove	Reliance	Grove	Reliance		
	Reducer Model	Motor Frame	3	L1	2	K1		
	20:1 Ratio			I	l			
	218	56C	7005848	-	7005849	-		
	220	56C	7005850	-	7005851	-		
	224	56C	7005852	-	7005853	-		
	224	145TC	7005854	-	7005333	-		
	226	56C	7031012	-	7031013	-		
	226	145TC	7005081	-	7005080	-		
	230	182TC	7005855	-	7005320	-		
9	232	145TC	7030647	-	7031018	-		
9	232	182TC	7005090	-	7005089	-		
	242	182TC	7005856	-	7005857	-		
	242	184TC	7005856	-	7005857	-		
	175	56C	-	7005907	-	7005908		
	200	56C	-	7005936	-	7005937		
	262	56C	-	7005746	-	7005956		
	262	145TC	-	7005957	-	7005958		
	350	145TC	-	7005978	-	7005979		
	350	182TC	-	7005980	-	7005981		



	Ite	em		Part N	umber				
	C-Face Reduc	er							
			Assembly						
			Series 600 au	nd 800 RU-LS	Series 600 and 800 LU-RS				
Key No.			SA2000 - S	Shown (RH)	SA2000 - OPP (LH)				
			SA2001 -	OPP (LH)	SA2001 - S	Shown (RH)			
	Red	ucer	Grove	Reliance	Grove	Reliance			
	Reducer Model	Motor Frame	3	3 L1		K1			
	25:1 Ratio		1						
	218	56C	7005858	-	7005859	-			
	220	56C	7005860	-	7005861	-			
	224	56C	7005862	-	7005863	-			
	224	145TC	7005864	-	7005865	-			
	226	56C	7031015	-	7031011	-			
	230	145TC	7005866	-	7005867	-			
	232	145TC	7005085	-	7005084	-			
	232	182TC	7005088	-	7005087	-			
	175	56C	-	7005909	-	7005910			
	200	56C	-	7005744	-	7005913			
	262	56C	-	7005754	-	7005742			
	262	145TC	-	7005959	-	7005960			
9	350	145TC	-	7005982	-	7005983			
	350	182TC	-	7005984	-	7005985			
	30:1 Ratio								
	218	56C	7005868	-	7005869	-			
	224	56C	7005870	-	7005783	-			
	226	56C	7005069	-	7005068	-			
	230	56C	7005871	-	7005872	-			
	232	145TC	7005083	-	7005082	-			
	242	145TC	7005874	-	7005875	-			
	242	182TC	7005766	-	7005876	-			
	175	56C		7005911		7005912			
	200	56C		7005914		7005915			
	262	56C		7005961		7005962			
	350	145TC		7005986		7005541			



	It	em		Part N	umber					
	C-Face Reduc	er								
				Assembly						
l/au			Series 600 a	nd 800 RU-LS	Series 600 aı	nd 800 LU-RS				
Key No.			SA2000 - S	Shown (RH)	SA2000 -	OPP (LH)				
			SA2001 -	OPP (LH)	SA2001 - S	Shown (RH)				
	Reducer		Grove	Reliance	Grove	Reliance				
	Reducer Model	Motor Frame	3	L1	2	K1				
	40:1 Ratio			l	l					
	220	56C	7005877	-	7005878	-				
	224	56C	7005879	-	7005328	-				
	226	56C	7005065	-	7005064	-				
	230	56C	7005880	-	7005881	-				
9	232	145TC	7005075	-	7005074	-				
	242	145TC	7005882	-	7005883	-				
	242	182TC	7005321	-	7005884	-				
	200	56C	-	7005916	-	7005917				
	262	56C	-	7005752	-	7005963				
	350	145TC	-	7005987	-	7005988				
	50:1 Ratio		•							
	224	56C	7005885	-	7005886	-				
	232	56C	7005887	-	7005888	-				
	232	145TC	7005073	-	7005072	-				
9	242	145TC	7005889	-	7005890	-				
	200	56C	-	7005918	-	7005919				
	262	56C	-	7005964	-	7005965				
	350	56C	-	7005989	-	7005990				
	350	145TC	-	7005991	-	7005992				



	Ite	em		Part N	umber			
	C-Face Reduc	er						
				Asse	Assembly			
			Series 600 a	nd 800 RU-LS	Series 600 aı	nd 800 LU-RS		
Key No.			SA2000 - S	Shown (RH)	SA2000 -	OPP (LH)		
			SA2001 -	OPP (LH)	SA2001 - S	Shown (RH)		
	Reducer		Grove	Reliance	Grove	Reliance		
	Reducer Model	Motor Frame	3	L1	2	K1		
	60:1 Ratio							
	220	56C	7005891	-	7005892	-		
	224	56C	7005893	-	7005894	-		
	226	56C	7005061	-	7005060	-		
	230	56C	7005895	-	7005896	-		
9	232	56C	7005067	-	7005066	-		
9	232	145TC	7005071	-	7005070	-		
	242	145TC	7005897	-	7005898	-		
	200	56C	-	7005938	-	7005939		
	262	56C	-	7005966	-	7005967		
	350	56C	-	7005993	-	7005994		
	350	145TC	-	7005995	-	7005996		



	Ite	em			Part N	umber		
Key No.	Chain Sprocke	et (Power Unit -	Driver)					
-	Size - Teeth	Sprocket Hub		Reduc	cer Output	Shaft Dia	ameter	
	- Belt Width	Type (TL Bushing No.)	.875	1.000	1.125	1.250	1.500	1.875
	Series 600 and	800 - End Drive		I.			II.	
	RC50 - 11T	Type B Hub	745505					
	RC50 - 13T	Type B Hub	745513	745512	745510			
	RC50 - 14T	Type B Hub			745514			
	RC50 - 17T	Type B Hub			745517			
	RC60 - 9T	Type B Hub	745100					
	RC60 - 10T	Type B Hub	745101		745102			
	RC60 - 11T	Type B Hub	745111	745110	745112			
		Type TL Hub	745631		745631			
	(TL Bushing)	(1008)	230701					
	RC60 - 13T	Type B Hub			745133			
		Type TL Hub	745633	745633	745633			
	(TL Bushing)	(1210)	230716	230717	230718			
	RC60 - 14T	Type B Hub			745142		745144	
		Type TL Hub	745634	745634	745634		745634	
10	(TL Bushing)	(1210)	230716	230717	230718			
10	RC60 - 15T	Type TL Hub	745635	745635	745635		745635	
	(TL Bushing)	(1610)	230746	230747	230748		230753	
	RC60 - 16T	Type B Hub					745165	
		Type TL Hub					745636	
	(TL Bushing)	(1610)					230753	
	RC60 - 17T	Type B Hub					745176	
		Type TL Hub			745637		745637	
	(TL Bushing)	(1610)			230748		230753	
	RC60 - 18T	Type TL Hub	745638	745638	745638		745638	
	(TL Bushing)	(1610)	230746	230747	230748		230753	
	RC60 - 19T	Type TL Hub	745639	745639	745639		745639	
	(TL Bushing)	(1610)	230746	230747	230748		230753	
	RC60 - 20T	Type TL Hub					745640	
	(TL Bushing)	(2012)					230785	
	RC60 - 21T	Type TL Hub					745641	
	(TL Bushing)	(2012)					230785	



	lte	em			Part N	umber				
Key	Chain Sprocke	et (Power Unit - I	Driver)							
No.	Size - Teeth	Sprocket Hub	Reducer Output Shaft Diameter							
	- Belt Width	Type (TL Bushing No.)	.875	1.000	1.125	1.250	1.500	1.875		
	RC60 - 22T	Type TL Hub		745642	745642		745642			
	(TL Bushing)	(2012)		230777	230778		230785			
	RC60 - 25T	Type TL Hub					745645			
	(TL Bushing)	(1008)????								
	RC60 - 26T	Type TL Hub					745646			
	(TL Bushing)	(1210)								
	RC60 - 29T	Type TL Hub					745649			
	(TL Bushing)	(1610)					230753			
	RC60 - 30T	Type TL Hub					745650			
	(TL Bushing)	(1610)					230753			
	RC80 - 11T	Type B Hub					745313			
	RC80 - 12T	Type B Hub					745322			
		Type TL Hub					745683			
	(TL Bushing)	(1615)					230766			
	RC80 - 13T	Type B Hub					745333			
		Type TL Hub					745684			
	(TL Bushing)	(1615)					230766			
10	RC80 - 14T	Type B Hub					745342			
10		Type TL Hub					745685			
	(TL Bushing)	(1615)					230766			
	RC80 - 16T	Type B Hub					745360			
		Type TL Hub						745687		
	(TL Bushing)	(2012)						230786		
	RC80 - 17T	Type B Hub						745372		
		Type TL Hub						745688		
	(TL Bushing)	(2012)						230786		
	RC80 - 18T	Type TL Hub						745689		
	(TL Bushing)	(2012)						230786		
	RC80 - 19T	Type TL Hub						745690		
	(TL Bushing)	(2012)						230786		
	RC80 - 20T	Type TL Hub						745691		
	(TL Bushing)	(2517)						230798		
	RC80 - 21T	Type TL Hub						745692		
	(TL Bushing)	(2517)						230798		
	RC80 - 23T	Type TL Hub						745694		
	(TL Bushing)	(2517)						230798		



	Ite	em			Part N	umber				
Key	Chain Sprocke	et (Power Unit - I	Oriver)							
No.	Size - Teeth	Sprocket Hub	Reducer Output Shaft Diameter							
	- Belt Width	Type (TL Bushing No.)	.875	1.000	1.125	1.250	1.500	1.875		
	RC100 - 10T	Type B Hub						745500		
	RC100 - 11T	Type B Hub						745432		
		Type TL Hub						745718		
		(SDS)						230759		
	RC100 - 12T	Type B Hub						745440		
		Type TL Hub						745719		
		(SDS)						230759		
	RC100 - 13T	Type TL Hub						745723		
		(2012)						230786		
	RC100 - 14T	Type TL Hub						745758		
		(2517)						230798		
	SA2000 and SA2001 - Intermediate / Low-Profile Drive									
10	RC60 - 16T	Type TL Hub		7788120	7788120	7788120	7788120			
10	(TL Bushing)	(1610)		7115210	7115213	7115223	7115228			
	RC60 - 19T	Type TL Hub		7742721	7742721	7742721	7742721			
	(TL Bushing)	(1610)		7115210	7115213	7115223	7115228			
	RC60 - 20T	Type TL Hub		7743918	7743918	7743918	7743918			
	(TL Bushing)	(2012)		7115235	7115228	7115227	7721059			
	RC60 - 21T	Type TL Hub		7120512	7120512	7120512	7120512	7120512		
	(TL Bushing)	(2012)		7115235	7115228	7115227	7721059	7115234		
	RC60 - 22T	Type TL Hub		7000092	7000092	7000092	7000092			
	(TL Bushing)	(2012)		7115235	7115228	7115227	7721059			
	RC60 - 23T	Type TL Hub		7125294	7125294	7125294	7125294			
	(TL Bushing)	(2012)		7115235	7115228	7115227	7721059			
	RC60 - 25T	Type TL Hub		7730801	7730801	7730801	7730801	7730801		
	(TL Bushing)	(2012)		7115235	7115228	7115227	7721059	7115234		



	Ite	em			Part N	umber				
Key	Chain Sprocke	et (Power Unit - I	Driver)							
No.	Size - Teeth	Sprocket Hub	Reducer Output Shaft Diameter							
	- Belt Width	Type (TL Bushing No.)	.875	1.000	1.125	1.250	1.500	1.875		
	Timing-Belt Spr	ocket (Power Un	it - Driver)							
	8mm-30T-21	Type TL Hub		7001533						
	(TL Bushing)	(1108)		7001513						
	8mm-32T-21	Type TL Hub		7001534	7001534					
	(TL Bushing)	(1210)		7200560	7115208					
	8mm-32T-36	Type TL Hub				7001551				
	(TL Bushing)	(1210)				7115207				
	8mm-34T-21	Type TL Hub		7001535	7001535	7001535				
	(TL Bushing)	(1610)		7115210	7115213	7115223				
	8mm-34T-36	Type TL Hub				7001552				
	(TL Bushing)	(1210)				7115207				
	8mm-36T-21	Type TL Hub		7001536	7001536					
	(TL Bushing)	(1610)		7115210	7115213					
	8mm-36T-36	Type TL Hub			7001553					
	(TL Bushing)	(1610)			7115213					
	8mm-38T-21	Type TL Hub		7001537	7001537	7001537				
	(TL Bushing)	(1610)		7115210	7115213	7115223				
10A	8mm-38T-36	Type TL Hub			7001554	7001554	7001554			
	(TL Bushing)	(1610)			7115213	7115223	7732428			
	8mm-40T-21	Type TL Hub		7001538	7001538	7001538				
	(TL Bushing)	(2012)		7115235	7115228	7115227				
	8mm-40T-36	Type TL Hub				7001555		7001555		
	(TL Bushing)	(2012)				7115227		7115234		
	8mm-42T-21	Type TL Hub		7001539	7001539	7001539				
	(TL Bushing)	(2012)		7115235	7115228	7115227				
	8mm-42T-36	Type TL Hub			7001556					
	(TL Bushing)	(2012)			7115228					
	8mm-45T-21	Type TL Hub		7001540	7001540	7001540				
	(TL Bushing)	(2012)		7115235	7115228	7115227				
	8mm-48T-21	Type TL Hub		7001541	7001541	7001541				
	(TL Bushing)	(2012)		7115235	7115228	7115227				
	8mm-48T-36	Type TL Hub				7001558				
	(TL Bushing)	(2012)				7115227				
	8mm-50T-21	Type TL Hub		7001542	7001542	7001542				
	(TL Bushing)	(2012)		7115235	7115228	7115227				



	lte	em			Part N	lumber		
Key	Chain Sprocke	t (Power Unit - I	Oriver)					
No.	Size - Teeth	Sprocket Hub		Redu	cer Outpu	t Shaft Dia	meter	
	- Belt Width	Type (TL Bushing No.)	.875	1.000	1.125	1.250	1.500	1.875
	14mm-28T-37	Type TL Hub					7001566	7001566
	(TL Bushing)	(2012)					7721059	7115234
	14mm-30T-37	Type TL Hub				7001568	7001568	7001568
	(TL Bushing)	(2517)				7001524	775668	7174980
	14mm-32T-37	Type TL Hub					7001570	7001570
10A	(TL Bushing)	(2517)					7756668	7174980
IUA	14mm-34T-37	Type TL Hub					7001572	7001572
	(TL Bushing)	(2517)					7756668	7174980
	14mm-36T-37	Type TL Hub					7001574	7001574
	(TL Bushing)	(2517)					7756668	7174980
	14mm-40T-37	Type TL Hub				7001578		
	(TL Bushing)	(3020)				7001527		



Key No.	It	em		Part Number			
No. 11	Chain Sprocket (Pulley	Driven)					
	Size - Teeth	Sprocket Hub Type	Reducer Output Shaft Diameter				
	- Belt Width	(TL Bushing No.)	1.187"	1.427"	1.675"		
	Series 600 and 800 - E	nd Drive					
	RC50 - 13T	Type B Hub	745511				
	RC60 - 21T	Type B Hub		745207			
		Type TL Hub		745641			
	(TL Bushing)	(2012)		230781			
	RC60 - 27T	Type B Hub			745270		
		Type TL Hub			745647		
	(TL Bushing)	(2012)			230782		
44	RC80 - 15T	Type B Hub		745350			
11		Type TL Hub		745686			
	(TL Bushing)	(1615)		230769			
	RC80 - 19T	Type B Hub			745392		
		Type TL Hub			745690		
	(TL Bushing)	(2012)			230782		
	RC100 - 15T	Type TL Hub			745725		
	(TL Bushing)	(2517)			230793		
	SA2000 and 2001 - Inte	ermediate / Low Profile	1	ı	I		
	RC60 - 26T	Type TL Hub			7717361		
	(TL Bushing)	(2012)			7115238		
	RC60 - 32T	Type TL Hub			7742328		
	(TL Bushing)	(2012)			7115238		



Key No.	lte	em	Part Number
	Timing-Belt Sprocket (P	ulley - Driven)	
	8mm-71T-21	Type TL Hub	7001548
	(TL Bushing)	(2517)	7115239
	8mm-71T-36	Type TL Hub	7001563
	(TL Bushing)	(2517)	7115239
	8mm-75T-21	Type TL Hub	7001549
	(TL Bushing)	(2517)	7115239
	8mm-75T-36	Type TL Hub	7001564
	(TL Bushing)	(2517)	7115239
11A	8mm-80T-21	Type TL Hub	7001550
	(TL Bushing)	(2517)	7115239
	8mm-80T-36	Type TL Hub	7001565
	(TL Bushing)	(3020)	7000084
	14mm-50T-37	Type TL Hub	7001582
	(TL Bushing)	(3020)	7000084
	14mm-53T-37	Type TL Hub	7001583
	(TL Bushing)	(3020)	7000084
	14mm-56T-37	Type TL Hub	7001584
	(TL Bushing)	(3525)	7000085

Note:

[&]quot;B" = Sprocket with finished bore.

[&]quot;TL" = Sprocket with taper-bore bushing.

[&]quot;H" = Sprocket with split taper bushing.



Width Related Parts

Key	Part Description		Co	nveyor W	idth "W" -	Part Num	ber				
No.	Part Description	15"	21"	27"	33"	39"	45"	51"			
	Pulley w/Shaft, Crown Face, Lag	Pulley w/Shaft, Crown Face, Lagged, Single Shaft Extension (End/Center Drive-Power Unit)									
20	Series 600 - 6.5" / 1-7/16"	68-3202	68-3203	68-3204	68-3205	68-3206	68-3207	68-3208			
	Series 800 - 8.5" / 1-11/16"	68-3302	68-3303	68-3304	68-3305	68-3306	68-3307	68-3308			
20A	Pulley w/Shaft, Drive, Crown Fac	ce, Lagged	(SA2000	Intermedia	te Drive)	1	•	•			
20A	8-1/4" dia., 1-11/16" Shaft										
20B	Pulley w/Shaft, Drive, Crown Fac	ce, Lagged	(SA2001	Low Profile	Intermedia	ate Drive)	•	•			
206	6-1/4" dia., 1-11/16" Shaft										
	Pulley / Axle, Crown Face (Serie	s 600/800	Idler/Take-	Up; Hor./Ir	cl. Transiti	on)	•	•			
21	Pulley - 3.5" CF / 1-1/8" SQ. BR	50-1216	50-1217	50-1218	50-1219	50-1220	50-1221	50-1222			
	Axle - 1-1/8" Square	69-0912	69-0913	69-0914	69-0915	69-0916	69-0917	69-0918			
	Pulley / Axle, Flat Face (Series 6	00/800 Idl	er/Take-Up	; Aux. Air	T.U.; Hor./I	ncl. Transit	ion)	•			
22	Pulley - 3.5" FF / 1-1/8" SQ. BR	50-1216	50-1217	50-1218	50-1219	50-1220	50-1221	50-1222			
	Axle - 1-1/8" Square	69-0912	69-0913	69-0914	69-0915	69-0916	69-0917	69-0918			
	Pulley & Axle, Take-Up, Crown Face, (SA2000 / 2001 Intermediate / Low Profile)										
22A	3-1/2" × 1-1/16" HX BR										
	Axle - 1-1/16" CRS Hex										
23	Pulley w/Shaft, Crown Face, No	Shaft Exte	nsion (Ser	ies 1000 Ta	ail End Idle	r; Aux. Air	T.U.)				
23	6.0" CF / 1-15/16"	68-3231	68-3232	68-3233	68-3234	68-3235	68-3236	68-3237			
24	Pulley w/Shaft, Flat Face, No Sh	aft Extensi	on (Aux. A	ir T.U.)							
24	6.0" FF / 1-15/16"	68-3238	68-3239	68-3240	68-3241	68-3242	68-3243	68-3244			
	Roller / Axle, (Carrier - Nose-Ove	er)									
25	Roller - No. G251HS	50-2474	50-2475	50-2476	50-2466	50-2467	50-2468	50-2470			
	Axle - 11/16" Hex	50-1329	50-1330	50-1331	50-1332	50-1333	50-1334	50-1335			
	Roller / Axle, (Snub)										
26	Roller - No. G251GT	50-1401	50-1405	50-1409	50-1413	50-1415	50-1417	50-1419			
	Roller - No. G251AB	49-1831	49-1832	49-1833	49-1834	49-1835	49-1836	49-1837			
26A	Roller - Adjustable / Fixed Snub	SA2000 ar	nd SA2001								
20/	2-9/16" × 11/16 HX BR										
26B	Shaft - Adjustable Snub SA2001	Shaft - Adjustable Snub SA2001									
200	11/16' CRS Hex										
_	·										



Key	Bout Bookinstins		Со	nveyor W	idth "W" -	Part Num	ber		
No.	Part Description	15"	21"	27"	33"	39"	45"	51"	
26C	Shaft - Fixed Snub SA2001	<u>I</u>	l	l	l	l	l	l	
26C	11/16' CRS Hex								
	Roller w/Axle, (Belt Return)								
	RLR G196 GH P 01 14.81 NC	7496307	-	-	-	-	-	-	
	RLR G196 GH P 01 20.81 NC	-	7496409	-	-	-	-	-	
28*	RLR G196 GH P 01 26.81 NC	-	-	7496506	-	-	-	-	
28"	RLR G196 GH P 01 32.81 NC	-	-	-	7496585	-	-	-	
	RLR G196 GH P 01 38.81 NC	-	-	-	-	7496643	-	-	
	RLR G196 GH P 01 44.81 NC	-	-	-	-	-	7496670	-	
	RLR G196 GH P)1 50.81 NC	-	-	-	-	-	-	7496674	
29	BELT" PVC90 FS x FS	190355	190491	190550	190582	190595	190597	190598	
	BELT LACING - Clipper	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
	No. 1A 6" long (FS × FS) (Qty. Req.)	190701 (4)	190701 (6)	190701 (8)	190701 (10)	190701 (12)	190701 (14)	190701 (16)	
30	BELT LACING PIN - Clipper								
	No. 25 (for No. 1A Lacing) (Qty. Req.)	190709 (1)	190709 (1.5)	190709 (2)	190709 (2.5)	190709 (3)	190709 (3.5)	190709 (4)	
	BELT LACING ALLIG #7	190880	190892	190894	190896	190898	190901	190902	

^{*}Roller Description Explanation



Lubricants and Paints

Part Description	Part Number
Reducer Lubricant	
Grove, Above +20° F (1 Gallon)	Consult Factory
Grove, -20° F to +20° F (1 Gallon)	Consult Factory
Reliance, Above +20° F (1 Gallon)	Consult Factory
Reliance, -20° F to +20° F (1 Gallon)	Consult Factory
Paint	
Medium Gray - Spray Can	959002
FKI Logistex Satin Gray - Spray Can	7900005