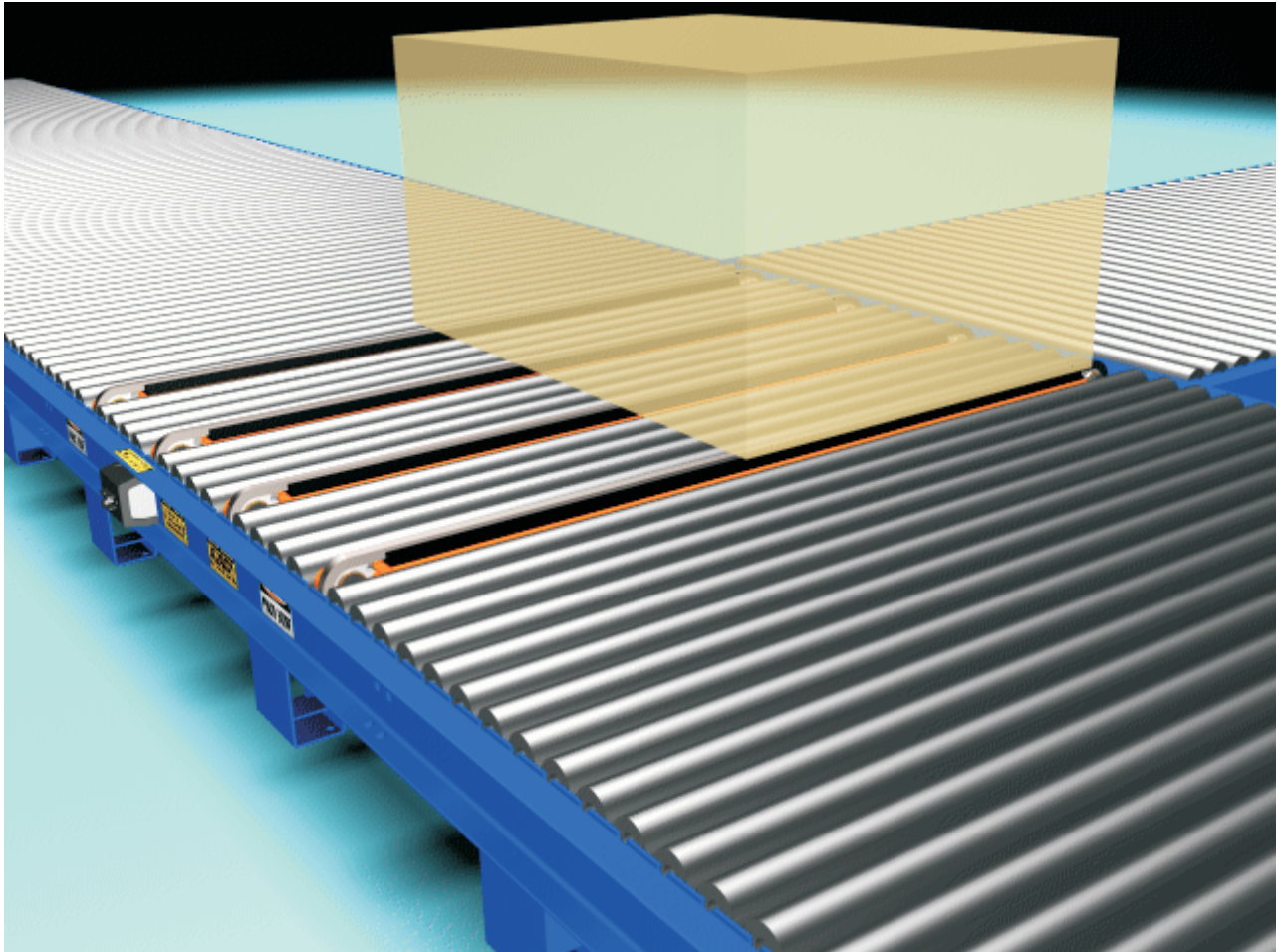


# CHAIN TRANSFER DEVICE



# SERVICE AND MAINTENANCE MANUAL



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When ordering parts, please call, fax or e-mail Systec at the address and/or the numbers shown below.

**SYSTEC** Conveyors Parts Department  
10010 Conveyor Drive  
Indianapolis, IN 46235

Tel 317.890.9230  
1.800.578.1755  
Fax 317.890.9232

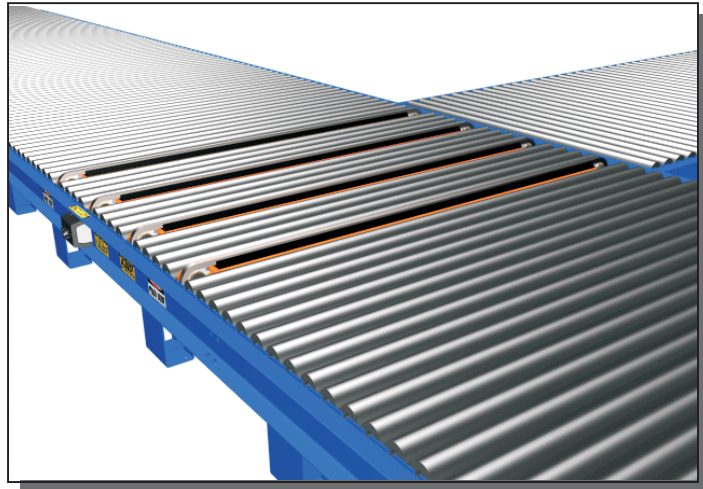
On The Net @ <http://www.systecconveyors.com>  
e-mail: [info@systecconveyors.com](mailto:info@systecconveyors.com)

## CHAIN TRANSFER DEVICE

The information within this manual covers **SYSTEC's** standard Chain Transfer Device. This device from here within will be referred to as a CTD.

Illustrations A and B show that this device can be applied anywhere inside a conveyor line for use as a one or two infeed/outfeed line application. The CTD is a bidirectional device and can be controlled allowing loads to be discharged or accepted onto the line in which it is installed.

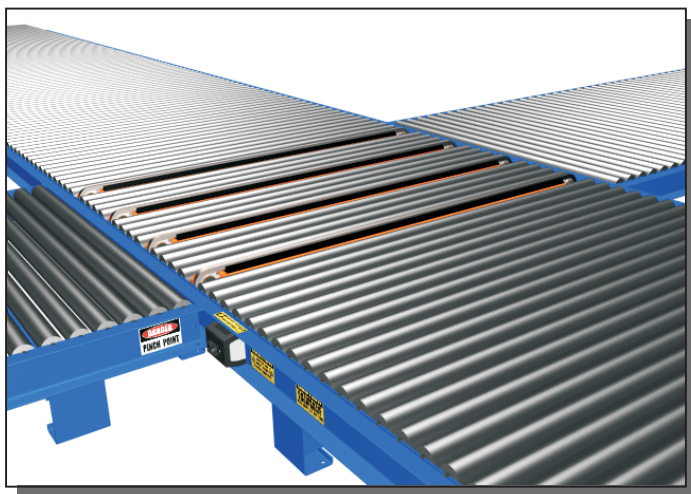
### CHAIN TRANSFER DEVICE WITH ONE INFEEED/DISCHARGE LINE



*ILLUSTRATION A*

Loads can be automatically controlled to separate and feed onto or off of the CTD line.

### CHAIN TRANSFER DEVICE WITH TWO INFEEED/DISCHARGE LINES



*ILLUSTRATION B*

Loads can also be centered automatically prior to being discharged from the CTD line.

## CONVEYOR SAFETY

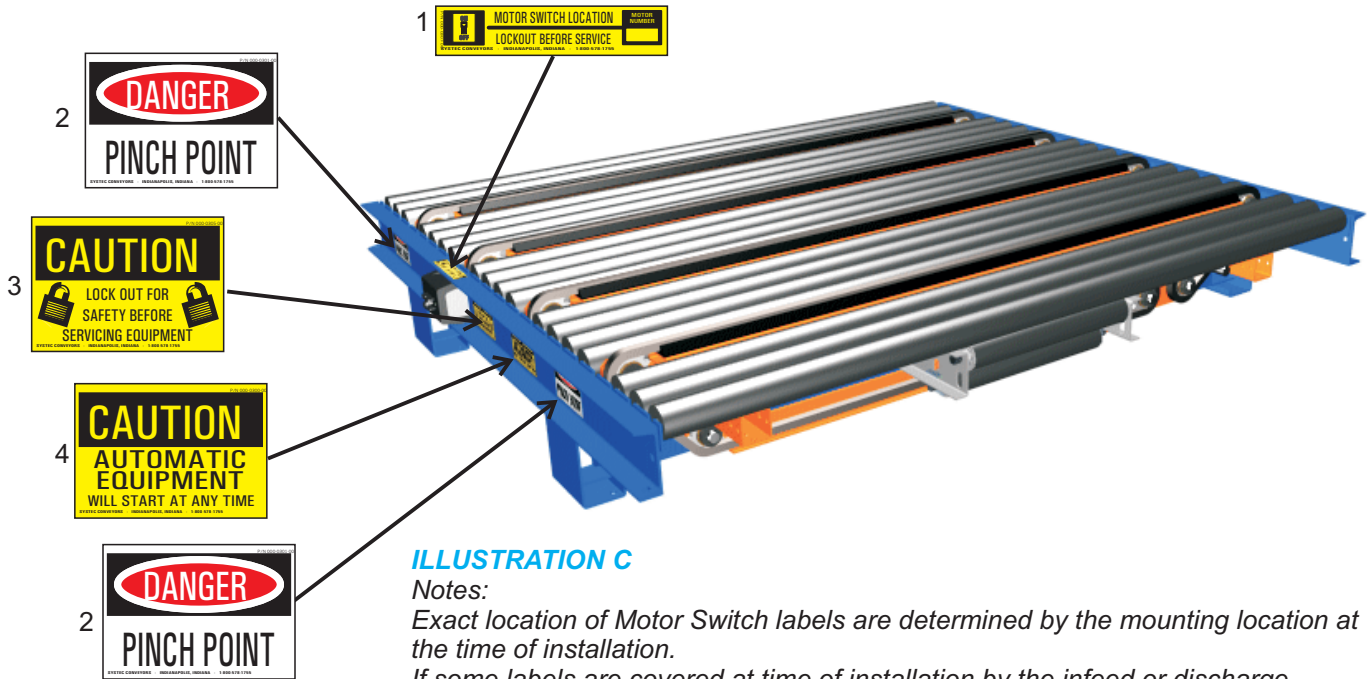
Where safety is concerned, conveyor is no different from any machinery or processing equipment. In many cases, the conveyor and devices can start running without notice.

**SYSTEC** designs all its equipment to be as safe as possible and installs guarding, or provides safety labels on all their conveyor and devices. These labels are in place to warn personnel working on or around the conveyor system of the inherent dangers that exist with any conveyor or machinery.

**SYSTEC** Conveyors also believes that a conveyor safety session should be incorporated into your existing safety training program to educate all personnel that work on or around conveyor systems of these potential safety concerns.

Below is Illustration C, showing the safety labels provided with **SYSTEC's** CTD. These labels should be installed to alert personnel of the potential hazards caused by improper use of the conveyor equipment. Where foot traffic exists, personnel should be discouraged from walking on a conveyor line.

Should you need additional labels, please contact **SYSTEC's** Parts Department at the address or phone numbers shown in the front of this manual.



### ILLUSTRATION C

#### Notes:

*Exact location of Motor Switch labels are determined by the mounting location at the time of installation.*

*If some labels are covered at time of installation by the infeed or discharge conveyors, be sure additional warning labels are installed in appropriate locations as required.*

## CONVEYOR SAFETY (continued)

Lock-out is a very important part of your Maintenance and Service Department procedures. **SYSTEC** provides Lockout Switches, as shown in illustration D, for each drive motor provided on each conveyor line and device.

### LOCKOUT SWITCH FOR SAFETY



*ILLUSTRATION D*

Note: Only authorized personnel should perform service and maintenance on any conveyor equipment and controls.

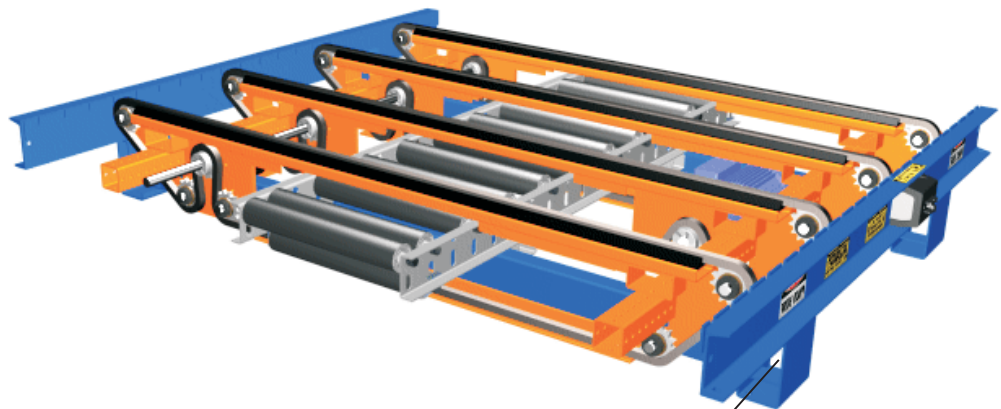
## CTD SERVICE AND PARTS

The drawings within this section are designed to help you understand how components of the CTD are assembled and disassembled. The exploded views also allow you to quickly and easily identify the parts that may need to be serviced and/or repaired.

The parts identification page(s) provide the corresponding part numbers to the drawings, and indicates recommended quantities you should stock for each CTD, along with the parts descriptions, part numbers, and order quantities. This is a faxable form, for your convenience, to order parts for stock or for needed replacement parts. Simply fill in the order quantity and the necessary purchase order number, and shipping information, then fax the form to **SYSTEC** Conveyor's number shown on the form. An Order Acknowledgement will be faxed back with the estimated ship date and pricing information.

The drawing below shows the CTD inside a CTD midsection. This mid section is slightly different from a standard midsection in that it has 4" x 4" tube openings at the leg locations to allow conduit and air lines to pass through the conveyor line without interfering with the CTD operations. The CTD midsection splices with other conveyor sections in a normal manner.

### CTD INSIDE A CTD MIDSECTION



4" X 4" TUBE OPENING FOR CONDUIT AND  
AIR LINE ROUTING

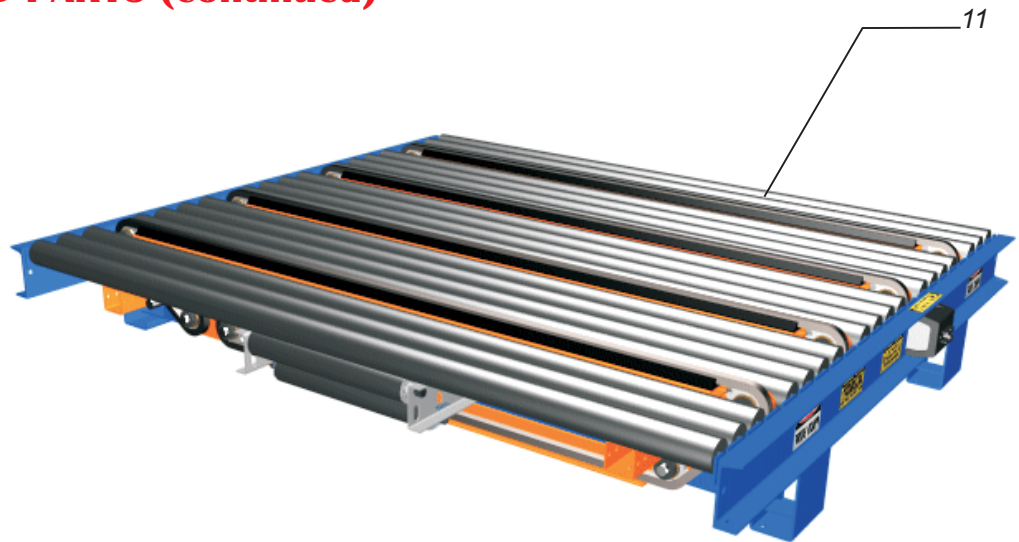
#### ASSEMBLY DRAWING 1

Notes:

*Lockout switch location is determined at time of installation.*

*Splice with other conveyor sections using standard mounting hardware.*

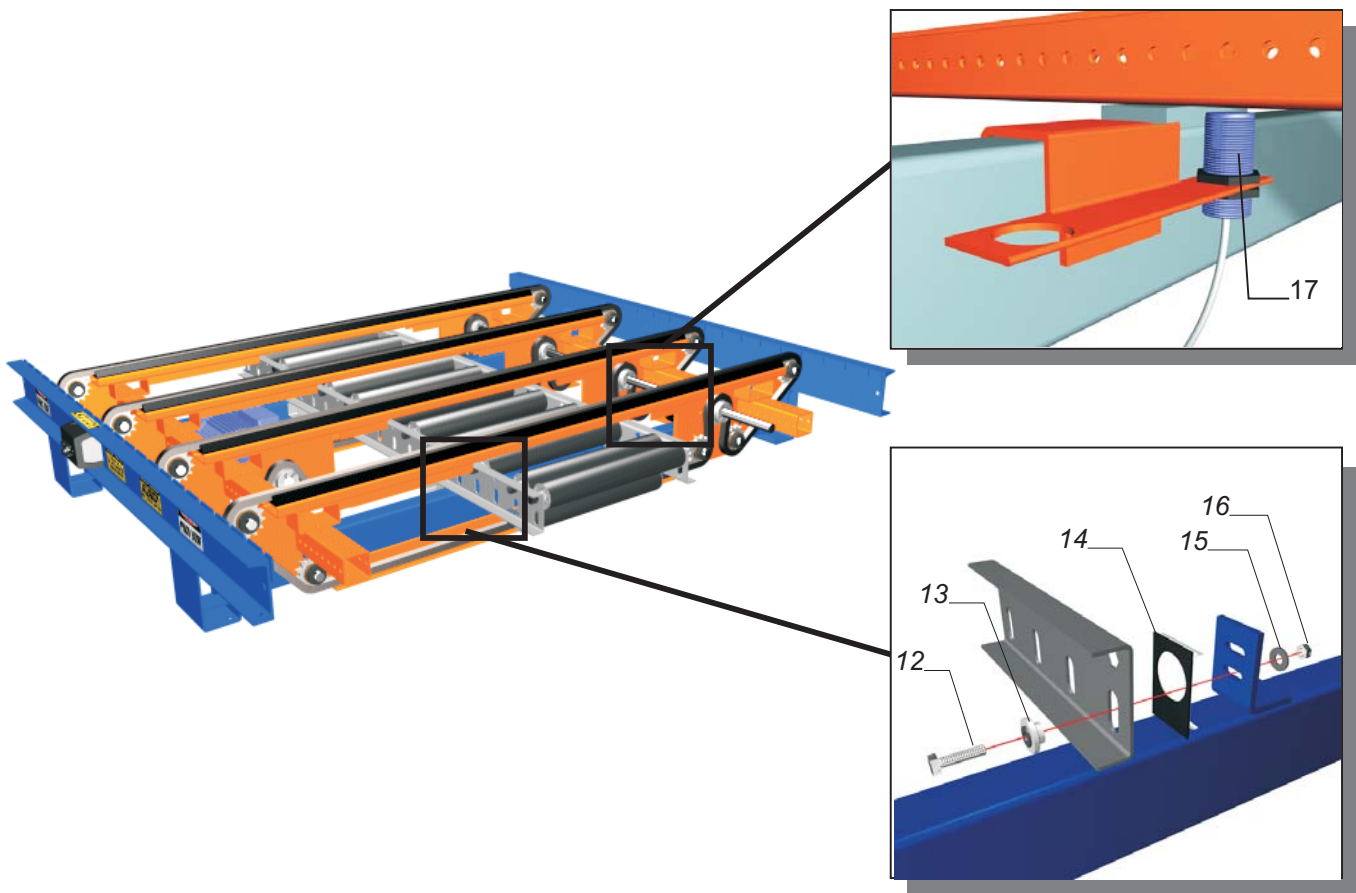
## CTD SERVICE AND PARTS (continued)



### ASSEMBLY DRAWING 2

Notes:

Load Carrying Rollers vary with conveyor widths. When ordering, be sure to measure exact conveyor width to assure proper fit.



### ASSEMBLY DRAWING 3

Notes:

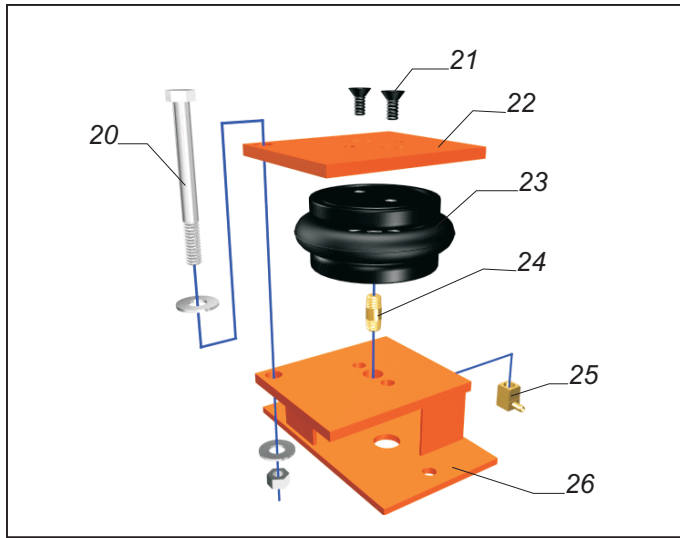
Bolt path shown is for PAR (accumulating) conveyor. Mount in upper slot for PRO conveyor.



## CTD SERVICE AND PARTS (continued)

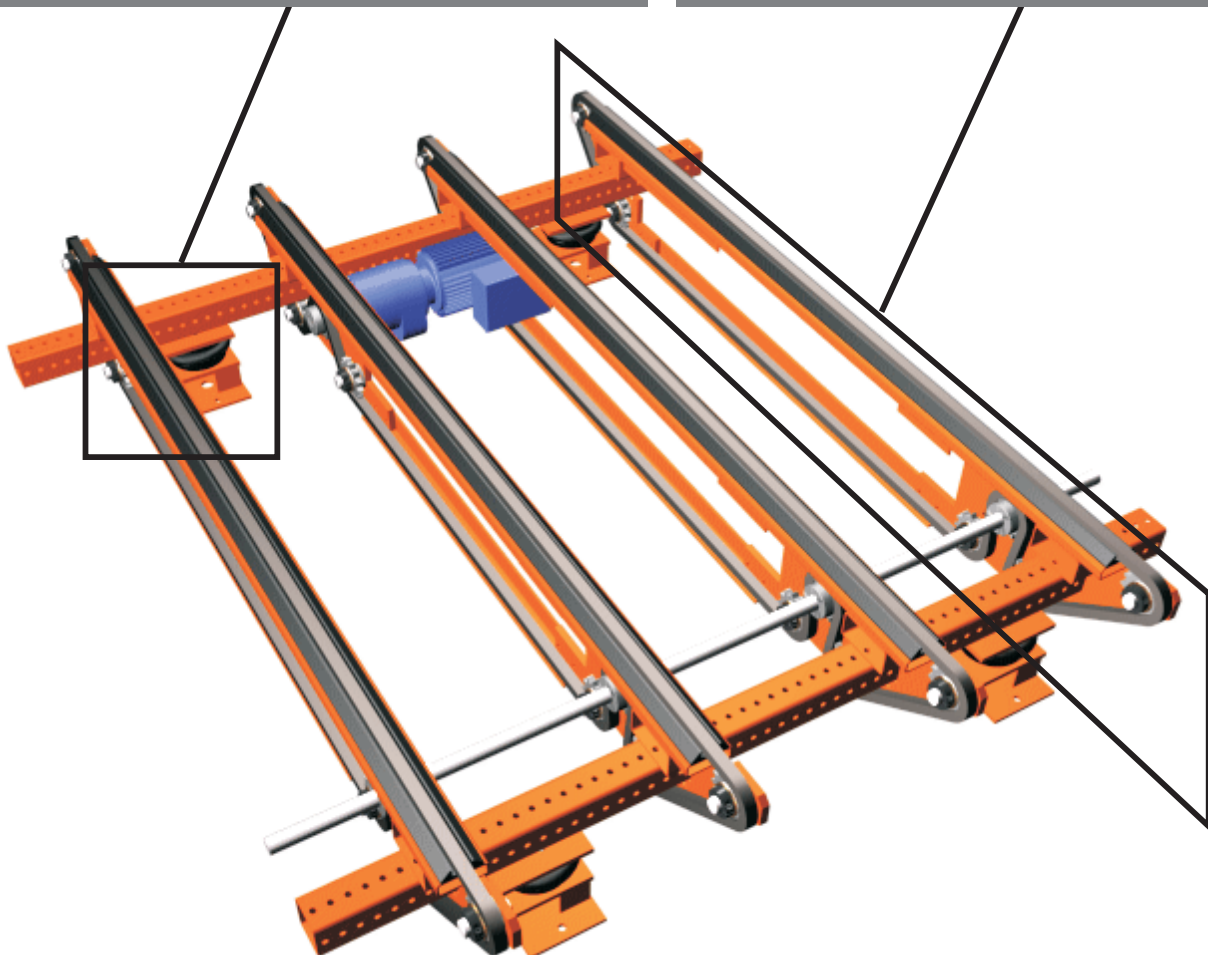
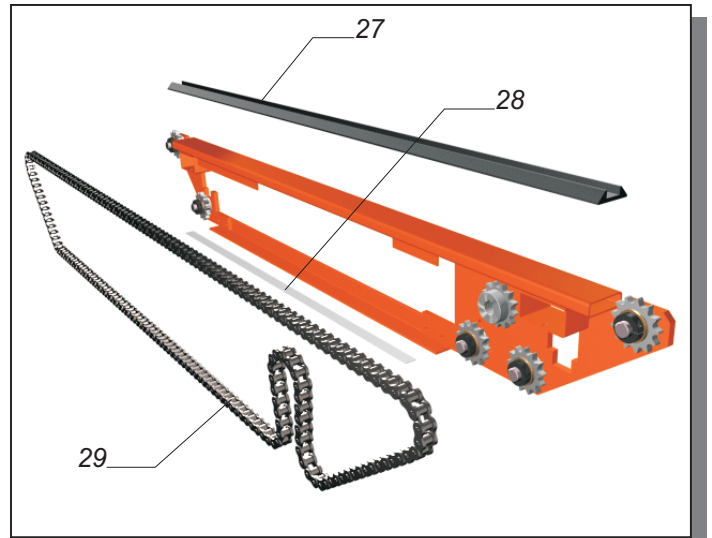
### ASSEMBLY DRAWING 4

Notes:  
Floor mount lift assemblies, as well as chain bars can be relocated on telspar mounting tubes.



### ASSEMBLY DRAWING 5

Notes:  
Chain length for drive bar is different. Be sure to verify length of chain when ordering.

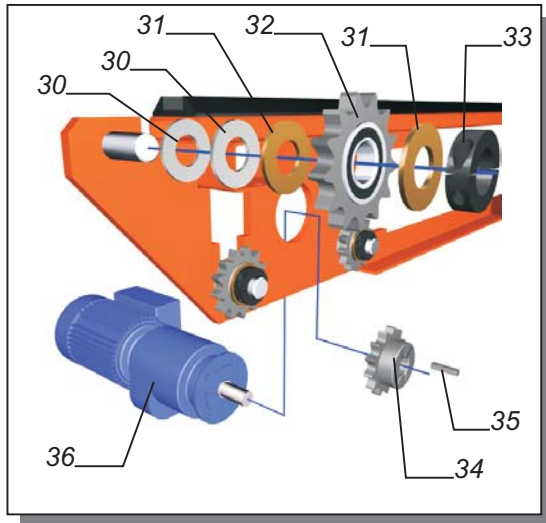


## CTD SERVICE AND PARTS (continued)

### ASSEMBLY DRAWING 6

Notes:

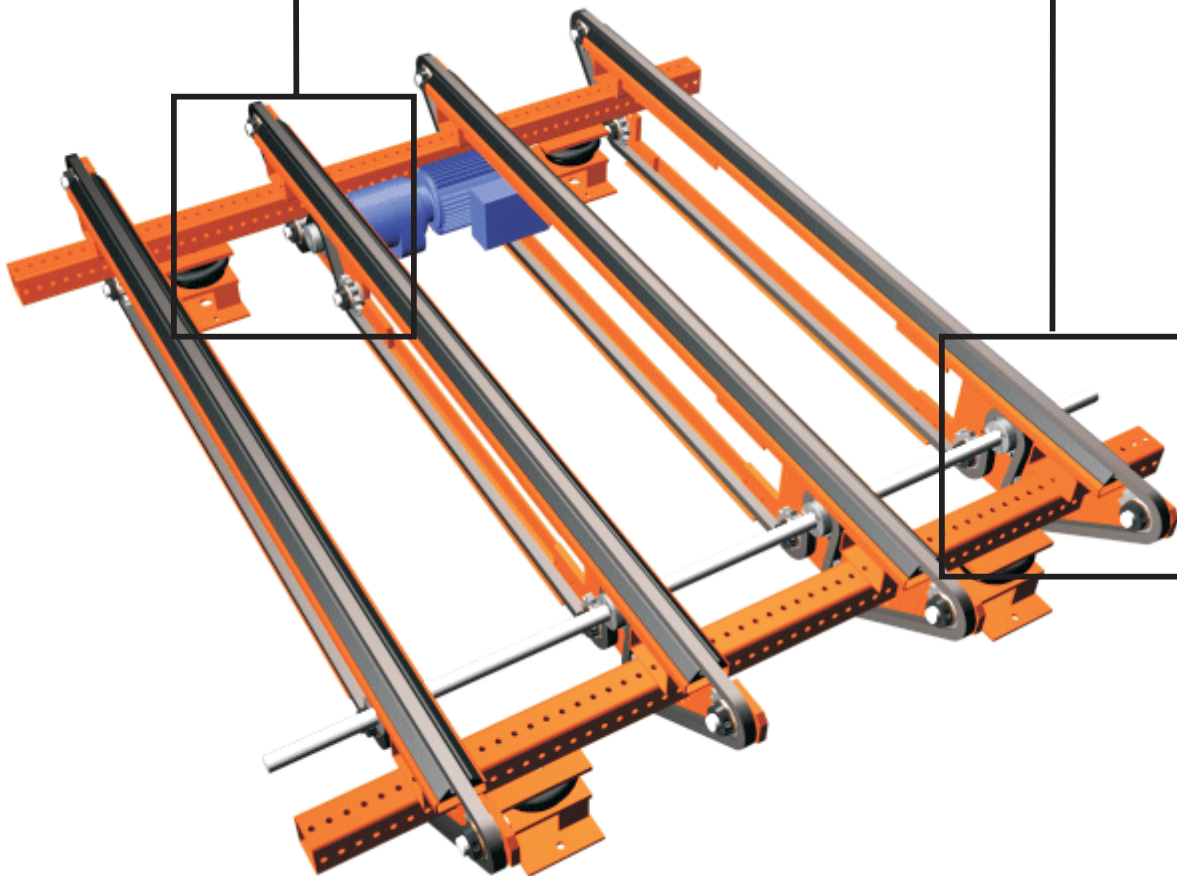
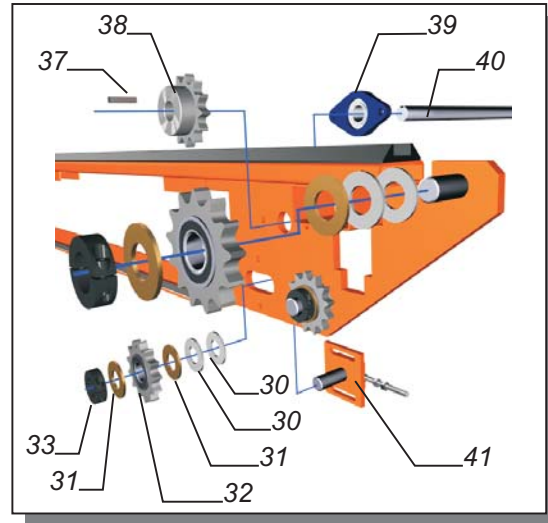
Be sure to assemble in order shown.



### ASSEMBLY DRAWING 7

Notes:

Slider, item 41, is used to adjust chain tension.



Some items on this parts list require "fill-in" or additional information to receive the needed part. Please be sure to provide all information requested on this list, or within this manual to assure that you do in fact get exact replacement parts. Systec's Parts Department will assist you in obtaining the proper part information, or answer any questions by calling 1-800-578-1755.

Item	Qty.	Rec. Spare	Description	Part Number	Gr.	Order Qty.
1	1	2	Safety Label - Motor Switch Location	000-0307	-00	
2	2	2	Safety Label - Pinch Point	000-0301	-00	
3	1	2	Safety Label - Lockout For Safety	000-0305	-00	
4	1	2	Safety Label - Automatic Equipment	000-0300	-00	
5	1	1	Lockout Switch	000-0118	-95	
11	*		60" Roller, 2-1/2" Dia., 11/16" HEX, 11GA, L.O.	10D0020	13	
	*		72" Roller, 2-1/2" Dia., 11/16" HEX, 11GA, L.O.	10D0020	15	
	*		84" Roller, 2-1/2" Dia., 11/16" HEX, 11GA, L.O.	10D0020	18	
	*		96" Roller, 2-1/2" Dia., 11/16" HEX, 11GA, L.O.	10D0019	00	
	*		__" Roller, 2-1/2" Dia., 11/16" HEX, 11GA, L.O.	**	**	
12	4		Bolt, Hex Head, 5/16-18 X 1-1/2" L.	740-0230	-25	
13	4	4	Pressure Roller Channel Bearing	13A0005	00	
14	4	4	Powered Roller Conveyor Wear Pad	13A0001	00	
15	4	4	Washer, 5/16 Flat, SAE	800-0230	-00	
16	4	4	Nut, Nyl Ins Lock 5/16-18	790-2230	-00	
17	1	1	Proximity Sensor	420-0005	-00	
20	4		Bolt, Hex Head, 1/2-13 X 5-1/2" L.	740-0242	-65	
21	8		Screw, Flat Head Machine, 3/8-16 X 1/2" L.	770-1234	-10	
22	4		Chain Transfer Airbag Mount Top Plate	23B0035	00	
23	4	2	Airmount, Firestone #16	630-1010	-00	
24	4		Long Nipple, 1/4" MPT	650-0190	-00	
25	4		90° Female Elbow, 1/4" FPT	650-0230	-00	
26	4		Chain Transfer Airbag Mount Weldment	23B0037	00	
27	*	1	Chain Transfer Chain Guide X 60" L.	23D0028	01	
	*	1	Chain Transfer Chain Guide X 72" L.	23D0028	02	
	*	1	Chain Transfer Chain Guide X 84" L.	23D0028	03	
	*	1	Chain Transfer Chain Guide X 96" L.	23D0028	04	
	*	1	Chain Transfer Chain Guide X __" L.	23D0028	**	
28	*	1	UHMW Plastic 1/16" Th. X 1-1/8" W. W/ Adhesive Back X 19-1/2" L.	580-5005	-00	
	*	1	UHMW Plastic 1/16" Th. X 1-1/8" W. W/ Adhesive Back X 31-1/2" L.	580-5005	-00	
	*	1	UHMW Plastic 1/16" Th. X 1-1/8" W. W/ Adhesive Back X 43-1/2" L.	580-5005	-00	
	*	1	UHMW Plastic 1/16" Th. X 1-1/8" W. W/ Adhesive Back X 55-1/2" L.	580-5005	-00	
	*	1	UHMW Plastic 1/16" Th. X 1-1/8" W. W/ Adhesive Back X ____" L.	580-5005	-00	
29	*	1	Chain #60 Diamond	540-0300	-00	
30	*		Washer, 1" Flat, SAE	800-0262	-00	
31	*		Washer, Oilite, 2" O.D. X 1" I.D. X 1/8" Thick	560-2030	-00	
32	*	2	Sprocket, Idler 60A13 1" Bore W/ Ball Bearing	550-0560	-00	
33	*	1	Locking Collar, 2 Piece, 1" I.D.	580-9020	-00	
34		1	Sprocket, 60B20 1" Bore W/ 1/4" Keyway	550-0950	-00	

Item	Qty.	Rec. Spare	Description	Part Number	Gr.	Order Qty.
35		1	Keystock, 1/4" Square X 1-3/16" L.	845-3500	-00	
36	1	1	Gearmotor	500-1300	-00	
37	1	1	Keystock, 1/4" Square X 1-3/16" L.	845-3500	-00	
38	*	1	Sprocket, 60B13 1" Bore w/ 1/4" Keyway	550-0570	-00	
39	*	2	Bearing, Flange Bloc, 2-Bolt 1" Bore W/ Setscrews	580-2010	-00	
40	1		Chain Transfer Connecting Drive Shaft X 60" L.	23C0006	01	
	1		Chain Transfer Connecting Drive Shaft X 72" L.	23C0006	02	
	1		Chain Transfer Connecting Drive Shaft X 84" L.	23C0006	03	
	1		Chain Transfer Connecting Drive Shaft X 96" L.	23C0006	04	
	1		Chain Transfer Connecting Drive Shaft X 48" L.	23C0006	05	
	1		Chain Transfer Connecting Drive Shaft X _ _" L.	23C0006	**	
41	*		Chain Transfer Take-Up Slide Weldment	23B0024	00	

\* Please specify Quantity and/or Length for any bill-of-material items with an astrisks.

For gearmotor orders, provide all S.O. information from the motor and gearbox data plates found on gearmotor, item 36, on page 8 of this manual.

This Maintenance Schedule is intended to cover all basic types of conveyor and the related devices and components. Although your system may not have all the parts listed below this schedule should help in identifying those components or parts that may require service or inspection that may otherwise be neglected. Should you need assistance in identifying the location of some of these components, contact **SYSTEC's** Customer Service Department at **1-800-578-1755**.

ITEM	INSPECTION OR SERVICE REQUIRED	500	1,000	2,500	5,000	10,000
<b>Gearmotor</b>	Clean, Check for Noise, Leaks, and Mounting	X				
	Check Oil Level			X		
	Change Oil					X
<b>Bearings</b>	Check Roller Bearings for Noise				X	
	Check Pillow Block (PB) and Flange Block (FB) bearings for Noise, Mounting, and *Lubrication	X				
<b>Belt</b>	Check for Belt Wear, Tracking and Tension		X			
<b>Chains</b>	Check Tension, Wear, Lube and Adjustment	X				
<b>Wire Cables</b>	Check Tension, Wear, and Adjustment	X				
<b>Springs</b>	Check Tension, Wear, and Adjustment	X				
<b>Sprockets</b>	Check Alignment, Wear and Mounting	X				
<b>Pulleys</b>	Check Alignment, Wear and Mounting	X				
<b>UHMW Blocks and Pads</b>	Check for Wear and Fit			X		
<b>Cams and Rollers</b>	Check for Wear and Alignment	X				
<b>Transfer Rails</b>	Clean with Degreaser	X				
<b>Photoeyes</b>	Clean with Soft Cloth or Dry High Pressure Air	X				
<b>Limitswitches</b>	Clean debris and Check Arm for Free Movement	X				
<b>Proximity Switch</b>	Clean Debris and Check for Proper Operation	X				
<b>Pendant Switch</b>	Check for Proper Operation			X		
<b>Lockout Switch</b>	Check for Proper Operation and Safety Labels			X		
<b>Foot Switch</b>	Check for Proper Operation			X		
<b>Foot Valve</b>	Check for Proper Operation			X		
<b>Strobe Light</b>	Check for Proper Operation			X		
<b>Sound Alert</b>	Check for Proper Operation			X		
<b>Motion Detector</b>	Check for Proper Operation			X		
<b>Load Measuring Device</b>	Check for Proper Operation			X		
<b>Air Filter/Regulator</b>	Check and Clean Trap and Adjust Pressure	X				
<b>Solenoid Valve</b>	Check for Air Leaks			X		
<b>Air Mount (air bag)</b>	Check for Air Leaks	X				
<b>Air Supply Line</b>	Check for Air Leaks	X				

\* Check bearing type for regreasable (zerk) fitting. Some bearings may be "sealed-for-life" and do not require regreasing.

