

5200 Series Curved End Drive Conveyors

Installation, Maintenance and Parts Manual



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Introduction

A

CAUTION

Some illustrations may show guards removed. DO NOT operate equipment without guards.

Upon receipt of shipment:

- Compare shipment with packing slip. Contact factory regarding discrepancies.
- Inspect packages for shipping damage. Contact carrier regarding damage. Accessories may be shipped loose.
- See accessory instructions for installation.

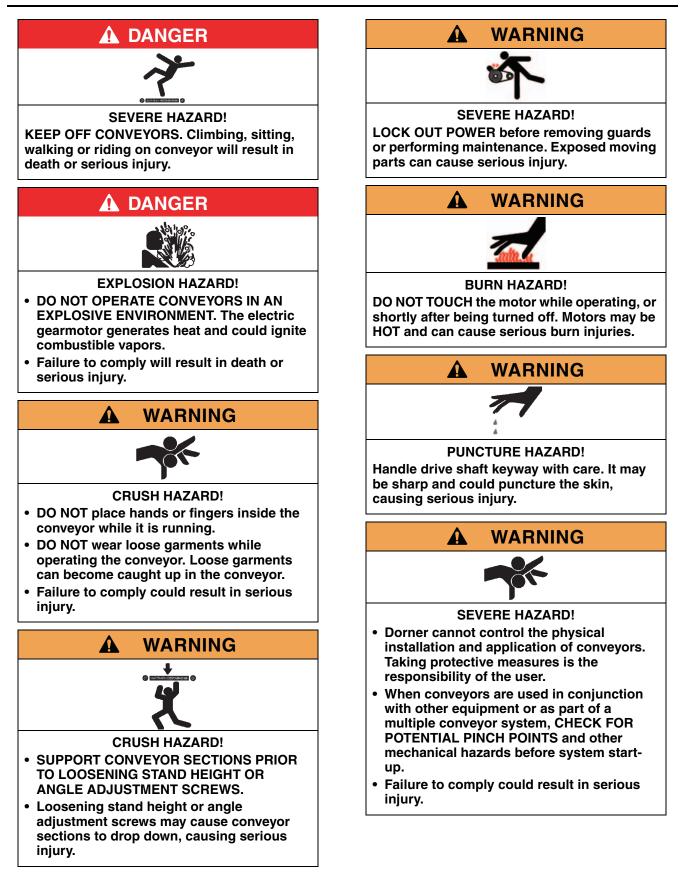
The Dorner Limited Warranty applies.

Dorner 5200 Series conveyors have patents pending.

Dorner reserves the right to make changes at any time without notice or obligation.

Dorner has convenient, pre-configured kits of Key Service Parts for all conveyor products. These time saving kits are easy to order, designed for fast installation, and guarantee you will have what you need when you need it. Key Parts and Kits are marked in the Service Parts section of this manual with the Performance Parts Kits logo

Warnings – General Safety

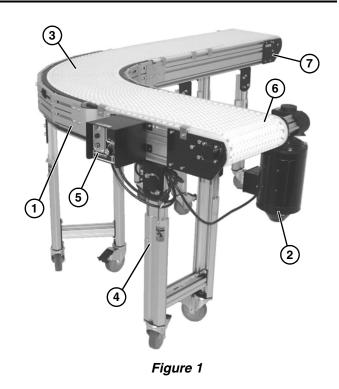


Product Description

Refer to (Figure 1) for typical conveyor components.

Typical Components

- 1 Conveyor
- 2 Gearmotor
- 3 Belt
- 4 Support Stands
- 5 Motor Controller
- 6 Drive End
- 7 Idler End



Specifications

Conveyor Width Reference (WW)	08 – 36 in 02 increments
Conveyor Belt Width	8" (203 mm) - 36" (914 mm) in 2" (51 mm) increments
LPZ Conveyor Width Reference (WW)	08 - 24 in 02 increments
LPZ Conveyor Belt Width	8" (103 mm) - 24" (610 mm) in 2" (51 mm) increments
Maximum Conveyor Load	20 lbs. / ft ² (97 kg/ m ²) with a maximum of 500 lbs. (227 kg)
Belt Travel	12" (305 mm) per revolution of pulley
Maximum Belt Speed	250 ft/minute (76 m/minute)
Conveyor Length Reference (<u>LLL</u>)	036 – 999 in 001 increments
Conveyor Length	36" (914 mm) - 999" (25.4 m) in 1" (25 mm) increments
LPZ Section Length (<u>LLL</u>)	024 - 288 in 001 increments
LPZ Section Length	24" (610 mm) - 288" (7315 mm) in 1" (25 mm) increments

IMPORTANT

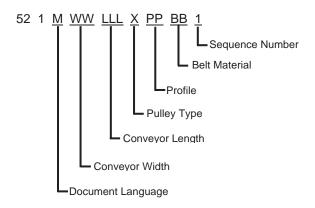
Maximum conveyor loads are based on:

- Non-accumulating product
- Product moving toward gearmotor
- Conveyor being mounted horizontally
- Conveyor being located in a dry environment
- Conveyor equipped with standard belt only

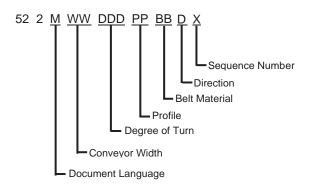
Specifications

5200 Series Curve Conveyor Modules

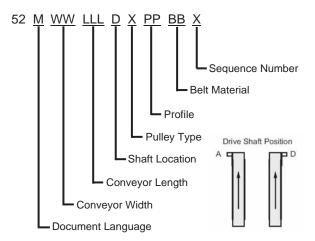
5200 Series Infeed / Idler Module



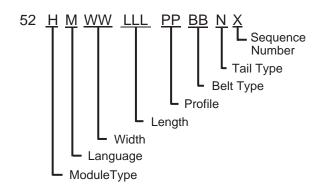
5200 Series Curve Module



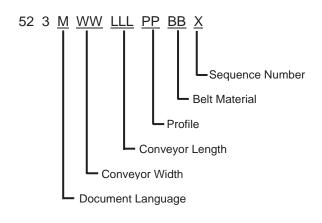
5200 Series Exit / Drive Module



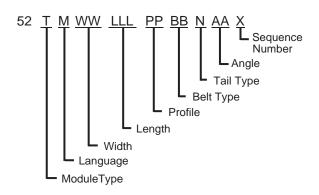
LPZ 5200 Series Curve Conveyor (Infeed Section to Curve)



5200 Series Intermediate Module

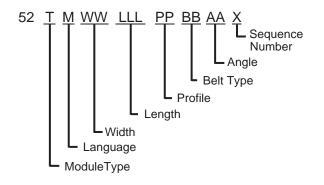


LPZ 5200 Series Curve Conveyor (Infeed Section to Knuckle)

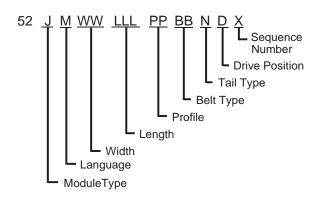


Specifications

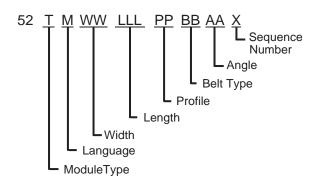
LPZ 5200 Series Curve Conveyor (Mid Section Between Curve)



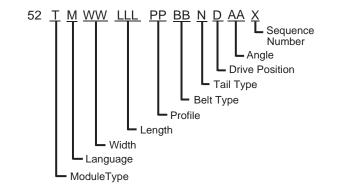
LPZ 5200 Series Curve Conveyor (Discharge Section to Curve)



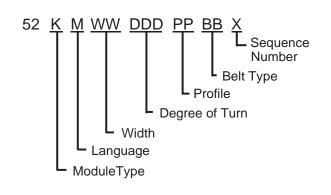
LPZ 5200 Series Curve Conveyor (Mid Section Between Knuckles)



LPZ 5200 Series Curve Conveyor (Discharge Section to Knuckle)



LPZ 5200 Series Curve Conveyor (Curve Section)



Specifications

Conveyor Supports

Infeed / Idler Module:

- "A" = 3 ft (914 mm) maximum (See Figure 2)
- Modules 24" 47" long get 1 support stand
- All other lengths get 2 support stands, evenly spaced, plus an additional support stand at each straight section break (over 13' straight frame module)

Intermediate Module:

- Modules 24" 59" long get 1 support stand
- All other lengths get 2 support stands, evenly spaced, plus an additional support stand at each straight section break (modules over 13')

Exit / Drive Module:

- "B" = 3 ft (914 mm) maximum (See **Figure 2**)
- Modules 24" 47" long get 1 support stand
- All other lengths get 2 support stands, evenly spaced, plus an additional support stand at each straight section break (modules over 13')
- *LPZ stand positions may vary, please consult factory.

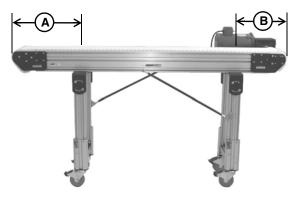


Figure 2

Curve Module:

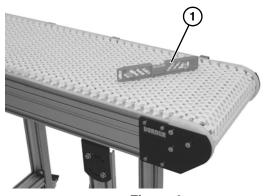
• Reference chart for support stand quantities, evenly spaced along curve (See Figure 3)

Width	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"
Degree															
15°	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
30°	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
45°	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
60°	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
90°	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
105°	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
120°	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
135°	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3
150°	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3
165°	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3
180°	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3

Figure 3

CAUTION

Conveyor MUST be mounted straight, flat and level within confines of conveyor. Use a level (Figure 4, item 1) during setup.





Required Tools

- Level
- Torque wrench
- 4 mm hex wrench
- 5 mm hex wrench

Recommended Installation Sequence

- Assemble the conveyor (if required). Refer to "Conveyors Longer than 12 ft (3658 mm)" on page 8 or "All Conveyors" on page 9.
- 2. Attach the stands. Refer to "Stand Installation" on page 11.
- 3. Install the gearmotor. Refer to "Drive Package Installation" on page 12.

Conveyors Longer than 12 ft (3658 mm)

Frame Connecting Components

Typical Frame Connecting Components (Figure 5)

- 1 Bar Frame Connector
- 2 Drop-in Tee Bar
- 3 Conveyor frames
- 4 Plate Frame Connector
- 5 Low Head Cap Screw, M6 1.00 x 12 mm
- 6 Washer
- 7 Socket Head Screw, M6 1.00 x 20 mm

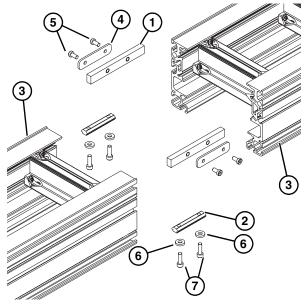


Figure 5

- Install two bar frame connectors (Figure 5, item 1) and two drop-in tee bars (Figure 5, item 2) into one conveyor section (Figure 5, item 3).
- 2. Join both conveyor sections, and install plate frame connectors (Figure 5, item 4), and secure with M6x12 low head cap screws (Figure 5, item 5) on both sides. Tighten cap screws to 60 in-lb (7 Nm).
- 3. Install washers (Figure 5, item 6) and M6x20 socket head screws (Figure 5, item 7) into drop-in tee bar (Figure 5, item 2) on both sides as indicated. (Do not tighten hardware. This is for stand installation.)

NOTE

The stop plate (Figure 6, item 1) on the center wear strip (Figure 6, item 2) faces the drive end (Figure 6, item 3) of the conveyor.

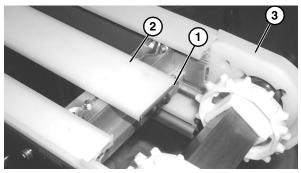


Figure 6

LPZ Conveyors

NOTE

Be sure all frame sections are properly supported during LPZ assembly.

Knuckles

 Attach upper knuckle to frame by loosening two socket head capscrews (Figure 7, item 1) on each side of upper knuckle assembly (Figure 7, item 2), and sliding T-Nuts into straight frame section (Figure 7, item 3).

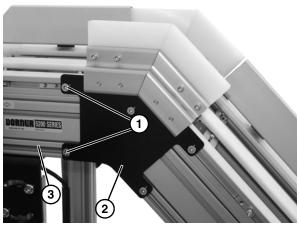
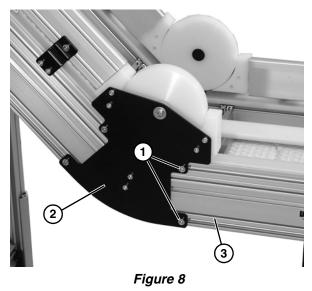


Figure 7

 Attach lower knuckle to frame by loosening two socket head capscrews (Figure 8, item 1) on each side of lower knuckle assembly (Figure 8, item 2), and sliding T-Nuts into straight frame section (Figure 8, item 3).



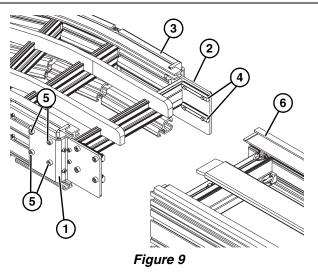
3. Tighten all socket head capscrews to 60 in-lb (7 Nm).

All Conveyors

Curve Connecting Components

Typical Curve Connecting Components (Figure 9)

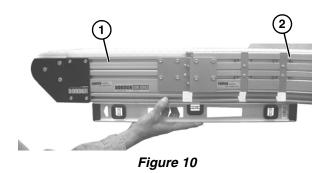
- 1 Offset Connecting Plate, Left
- 2 Offset Connecting Plate, Right
- 3 Curved Section
- 4 Drop-in Tee Bar
- 5 Socket Head Screw, M6 1.00 x 16 mm
- 6 Straight Section



- For joining curved to straight sections, install left offset connecting plate (Figure 9, item 1) and right connecting plate (Figure 9, item 2) onto curved section (Figure 9, item 3) with two drop-in tee bars (Figure 9, item 4) and four M6x16 socket head screws (Figure 9, item 5), making sure the straight frame section is flush to the curve section crossmember.
- 2. Secure straight section (**Figure 9**, item 6) onto curved section with the same hardware as previous step. Tighten all socket head screws to 60 in-lb (7 Nm).

NOTE

The bottom of the straight frame sections (Figure 10, item 1) and curve frame sections (Figure 10, item 2) must be level.



Belt Installation

Typical Belt Components (Figure 11)

- 1 Chain Belt
- 2 Belt Rod

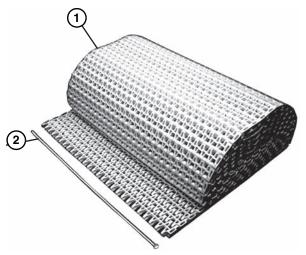


Figure 11

NOTE Ensure the belt is running in the correct direction, with hole (Figure 12, item 1) towards conveyor motor.

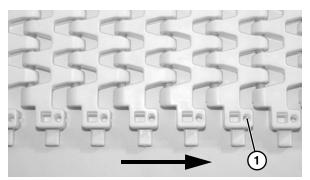


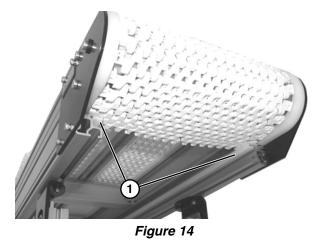
Figure 12

1. Position the belt on the conveyor frame (Figure 13).



Figure 13

- 2. Wrap belt around idler tail.
- 3. Install belt around lower frame section and above lower wear strips (Figure 14, item 1).



4. Wrap the belt around the drive end of the conveyor, making sure the sprocket teeth have engaged the belt, with concave teeth (**Figure 15, item 1**) mating with rounded section (**Figure 15, item 2**) of belt.

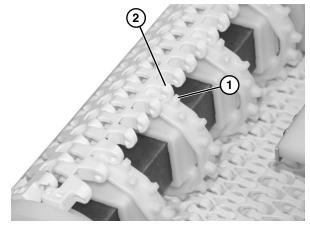


Figure 15

- 5. Feed the ends of the belt through the top and bottom of the curved frame sections.
- 6. Bring the ends of the belt together (Figure 16).

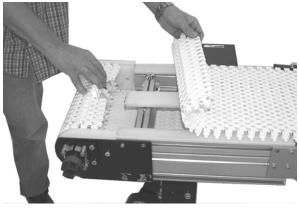


Figure 16

5200 Series Curved End Drive Conveyors

7. Insert the belt rod (Figure 17, item 1).

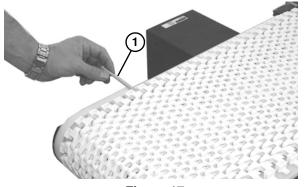


Figure 17

- 8. Push the belt rod in as far as possible.
- 9. Lightly tap the head of the rod with a hammer until it snaps into position.
- 10. Slide the top wear strips (Figure 18, item 1) with wide lip facing up, under the conveyor belt (Figure 18, item 2) catching the bottom lip on conveyor frame, to cover the belt tabs.

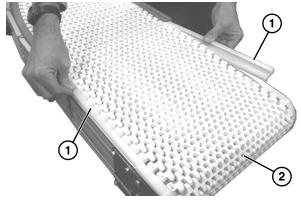


Figure 18



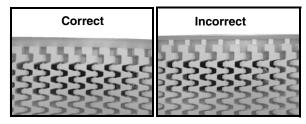


Figure 19

NOTE

Top wear strips are left loose to facilitate ease of belt installation and/or removal.

Stand Installation

NOTE

For detailed assembly instructions, please see your appropriate support stand manual.

Typical stand components (Figure 20)

- 1 Conveyor Frame
- 2 Stand
- 3 M6 1.0 x 20 mm socket head cap screws (x4)

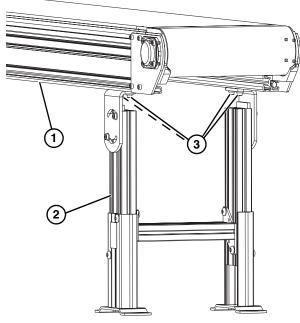
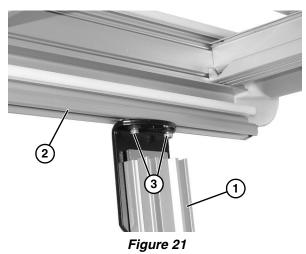


Figure 20

1. Properly support the conveyor.

2. Attach stands (**Figure 21, item 1**) to the bottom of the conveyor frame (**Figure 21, item 2**). Tighten socket head screws (**Figure 21, item 3**), on each side, to secure in place.



Drive Package Installation

NOTE

For detailed assembly instructions, refer to the appropriate Drive Packages Installation, Maintenance and Parts Manual.

1. Attach the motor (Figure 22, item 1) to the gear reducer (Figure 22, item 2).



Figure 22

Required Tools

- 4 mm hex wrench
- 5 mm hex wrench
- 6 mm hex wrench
- 8 mm hex wrench
- Punch and hammer (to remove belt rod)

Checklist

- Keep service parts on hand. Refer to the "Service Parts" section starting on page 23 for recommendations.
- Replace any worn or damaged parts.

Lubrication

No lubrication is required. Replace bearings if worn.

Maintaining the Conveyor Belt

Troubleshooting

NOTE

Visit www.dorner.com for complete list of troubleshooting solutions.

Inspect conveyor belt for:

- Surface cuts or wear
- Skipping

Damage to belt links or rods, surface cuts and / or wear indicate:

- Sharp or heavy parts impacting belt
- Jammed parts
- Accumulated dirt
- · Foreign material inside the conveyor
- Improperly positioned accessories

Skipping indicates:

- Excessive load on belt
- Worn spindle or impacted dirt on drive spindle

Conveyor Belt Replacement



LOCK OUT POWER before removing guards or performing maintenance. Exposed moving parts can cause serious injury.

Replacing a Section of Belt

 Use a punch and hammer to push the belt rod (Figure 23, item 1) out by striking the rod end opposite the retaining head.



2. Remove the belt rods on both sides of the section of belt being replaced.

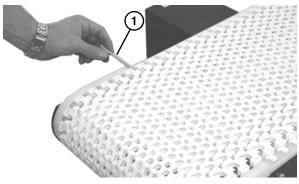


Figure 23

3. Replace old section of belt.



DO NOT reuse belt rods that are damaged or show signs of wear.

Replacing the Entire Belt

1. Use a punch and hammer to push the belt rod (Figure 24, item 1) out by striking the rod end opposite the retaining head.

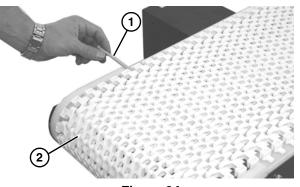


Figure 24

- Slide the old belt (Figure 24, item 2) off the conveyor 2. frame.
- Replace the old belt with a new one. Refer to "Belt 3. Installation" on page 10.

CAUTION

DO NOT reuse belt rods that are damaged or show signs of wear.

Conveyor Belt Tensioning



installation. A proper length of belt can be installed by interlocking the ends by hand without excess links.

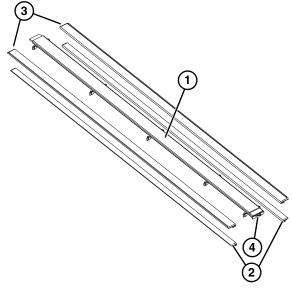
Remove one or more belt links to take up tension. Refer 1. to "Replacing a Section of Belt" on page 13.

Wear Strips

Replace the wear strips if they become worn.

Typical Standard Wear Strips (Figure 25)

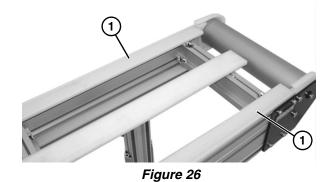
- 1 Wear Strip, Center
- 2 Wear Strips, Lower Side
- 3 Wear Strips, Lower Side
- 4 Stop Plate, Center Wear Strip





Removal

Remove upper wear strips (Figure 26, item 1) from top 1. of frame assembly.



2. Remove lower wear strips (Figure 27, item 1), and if necessary, lower belt return (Figure 27, item 2) from lower frame assembly.

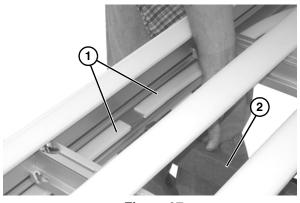


Figure 27

3. Remove two screws (**Figure 28, item 1**) from each clamp on center frame channel.

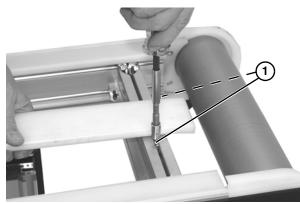
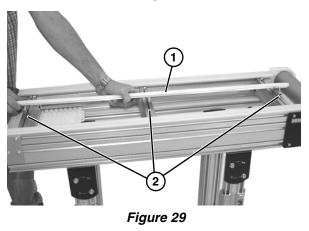
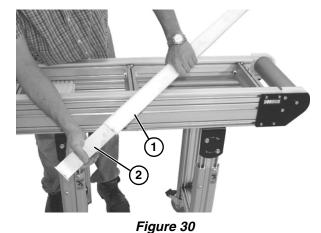


Figure 28

4. Remove center frame channel (**Figure 29, item 1**), making sure to keep each clamp matched with channel of each cross member (**Figure 29, item 2**).



5. Remove the center wear strip (Figure 30, item 1) from the center frame channel (Figure 30, item 2).



Installation

NOTE

The stop plate (Figure 31, item 1) on the center wear strip (Figure 31, item 2) faces the drive end (Figure 31, item 3) of the conveyor.

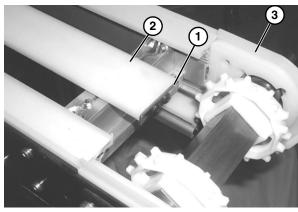


Figure 31

Install components reverse of removal.

Spindle Removal



Remove conveyor belt to access spindle(s). See "Replacing the Entire Belt" on page 14. Remove the desired spindle following the corresponding instructions below:

- A Drive Spindle Removal
- **B** Idler Spindle Removal
- C Nose Bar Idler Spindle Removal

A – Drive Spindle Removal



- 1. Remove the gearmotor. For detailed instructions, refer to the appropriate drive package manual.
- 2. Loosen the four socket head screws (Figure 32, item 1). Repeat on opposite side.

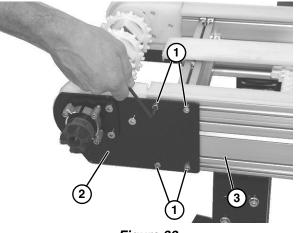
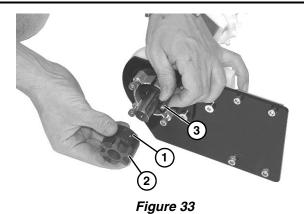


Figure 32

- 3. Remove the drive tail assembly (**Figure 32, item 2**) from the frame (**Figure 32, item 3**).
- 4. Loosen set screw (Figure 33, item 1) and remove coupling (Figure 33, item 2).



- 5. Remove key (Figure 33, item 3).
- 6. Remove four socket head screws (Figure 34, item 1) and drive guards (Figure 34, item 2).

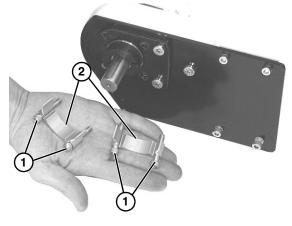


Figure 34

7. Loosen the bearing collar set screw (Figure 35, item 1) and remove bearing collar (Figure 35, item 2).

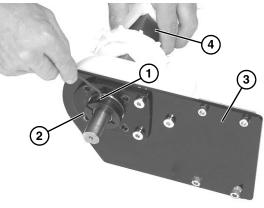


Figure 35

- 8. Remove plate (Figure 35, item 3) from drive spindle (Figure 35, item 4).
- 9. Remove retaining clip (**Figure 36**, **item 1**) and flanged puck (**Figure 36**, **item 2**) from drive spindle.

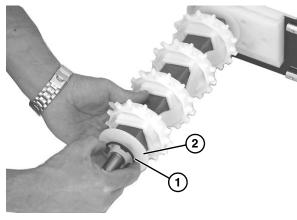


Figure 36

10. Slide entire sprocket assembly slightly outward, and remove the first sprocket (Figure 37, item 1) off the drive spindle and alignment bar (Figure 37, item 2).

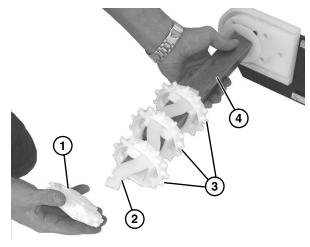


Figure 37

- 11. Remove remaining sprockets (**Figure 37, item 3**) off the alignment bar as you slide entire assembly off the drive spindle (**Figure 37, item 4**).
- To assemble sprockets onto drive spindle, slide one sprocket (Figure 38, item 1) onto alignment bar (Figure 38, item 2) and slide assembly onto drive spindle (Figure 38, item 3).

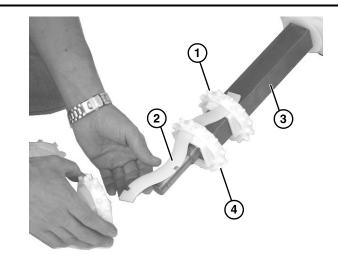


Figure 38

- 13. Install second sprocket (**Figure 38, item 4**) and subsequent sprockets one by one, while sliding entire assembly onto alignment bar and spindle.
- 14. Check drive terminal assembly (Figure 39, item 1) for wear. If worn, remove three low head cap screws (Figure 39, item 2) and replace.

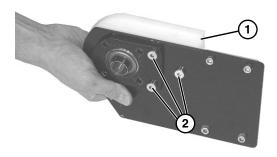
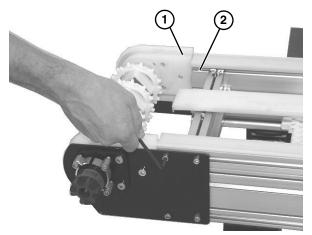


Figure 39

NOTE

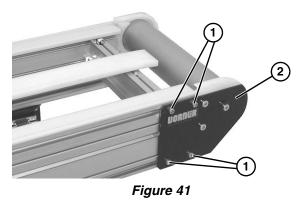
When reinstalling the drive spindle tail assembly, the terminal assembly (Figure 40, item 1) should mate flush with the conveyor frame (Figure 40, item 2).



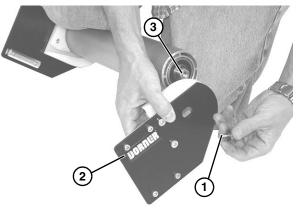


B – Idler Spindle Removal

- Be sure the conveyor is supported. 1.
- 2. On one side of conveyor, loosen the four socket head screws (Figure 41, item 1). Repeat on opposite side.



- 3. Remove idler tail assembly (Figure 41, item 2).
- 4. Remove socket head screw (Figure 42, item 1) from plate (Figure 42, item 2) and center of spindle shaft (Figure 42, item 3). Repeat procedure on opposite side.





5. Remove the spindle shaft assembly: remove the clip ring (Figure 43, item 1) and washer (Figure 43, item 2) from one side of the spindle assembly.

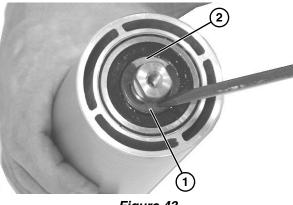


Figure 43

Slide the shaft assembly (Figure 44, item 1) out of the 6. pulley (Figure 44, item 2).



Figure 44

 Check idler terminal assembly (Figure 45, item 1) for wear. If worn, remove two low head cap screws (Figure 45, item 2) and replace.

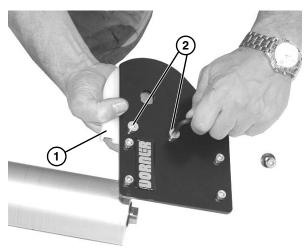


Figure 45

NOTE

When reinstalling the idler spindle tail assembly, the idler terminal assembly (*Figure 46, item 1*) should mate flush with the conveyor frame (*Figure 46, item 2*).

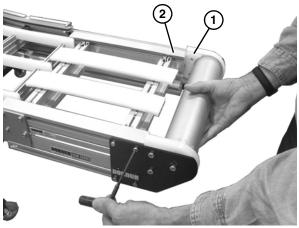


Figure 46

C – Nose Bar Idler Spindle Removal

- 1. Be sure the conveyor is supported.
- 2. On one side of conveyor, loosen the four socket head screws (**Figure 47, item 1**). Repeat on opposite side.

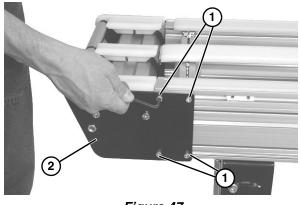


Figure 47

- 3. Remove idler tail assembly (Figure 47, item 2).
- 4. Remove two low head cap screws (Figure 48, item 1) from plate (Figure 48, item 2). Repeat procedure on opposite side.

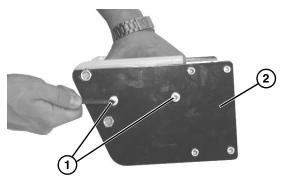


Figure 48

5. Remove upper nut (**Figure 49, item 1**) and spacer from end of axle shaft assembly.

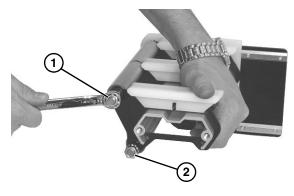
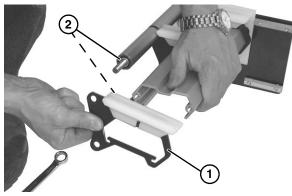


Figure 49

6. Remove lower nut (**Figure 49, item 2**) and spacer from lower axle shaft assembly.

7. Slide the support plate (**Figure 50**, **item 1**) off of both axle shafts.





- 8. Remove washer (**Figure 50**, **item 2**) off of lower and upper axle shafts.
- 9. Remove roller assembly (Figure 51, item 1) and washer (Figure 51, item 2) from axle shaft (Figure 51, item 3).

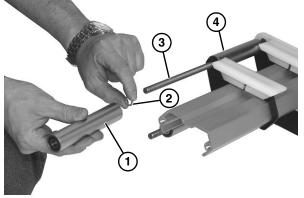
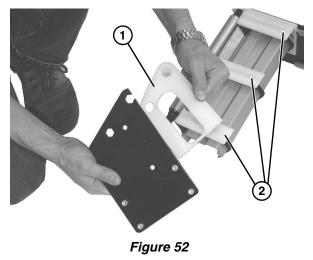


Figure 51

10. Remove remaining roller assembly components (Figure 51, item 4) on opposite side.

11. Check idler terminal assembly on each side (Figure 52, item 1) for wear. If worn, replace.



12. Remove and replace wear guides (**Figure 52, item 2**) if worn. When replacing, secure onto pins on each support plate.

NOTE

When reinstalling the idler spindle tail assembly, the idler terminal assembly (*Figure 53, item 1*) should mate flush with the conveyor frame (*Figure 53, item 2*).

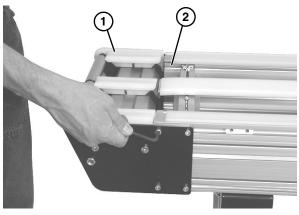


Figure 53

Spindle Replacement

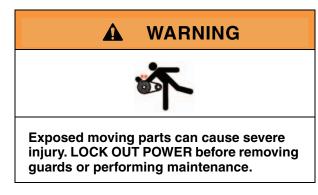
Drive Spindle

To replace the drive spindle, reverse the "A - Drive Spindle Removal" procedure on page 16.

Idler Spindle

To replace the idler spindle, reverse the "B - Idler Spindle Removal" procedure on page 18.

Bearing Replacement



Drive Bearing Removal and Replacement



Removal

1. Turn bearing (Figure 54, item 1) to align with slots (Figure 54, item 2) in bearing housing. Then remove bearing.

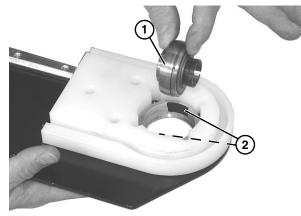


Figure 54

Replacement

- 1. Inspect bearing housing bearing surface. If worn or damaged, replace. See "Service Parts" on page 23.
- 2. Insert bearing (Figure 55, item 1) into housing slot: Locate anti–rotation nub (Figure 55, item 2) to align with slot (Figure 55, item 3), and twist bearing into housing.

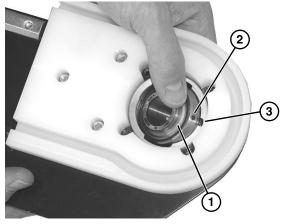


Figure 55

Maintenance of Knuckles

Lower Knuckle

 Remove cap screw (Figure 56, item 1), washer, and spacer on side of lower knuckle assembly (Figure 56, item 2), and remove hold down guide (Figure 56, item 3). Repeat on opposite side.

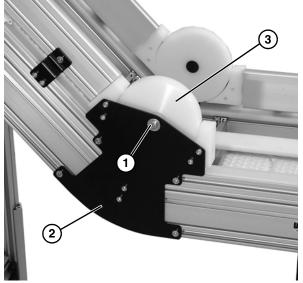


Figure 56

2. Remove two socket cap screws (Figure 57, item 1) for all four hold down guards (Figure 57, item 2) on side of lower knuckle assembly (Figure 57, item 3).

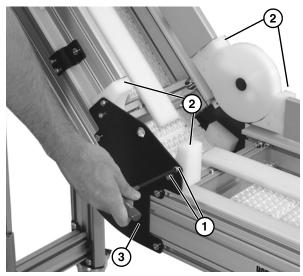


Figure 57

- 3. Replace parts as necessary.
- 4. Install parts reverse of removal.

Upper Knuckle

1. Remove socket head cap screw (**Figure 58, item 1**), on each side of upper knuckle assembly, and remove shaft and sprocket assembly (**Figure 58, item 2**).

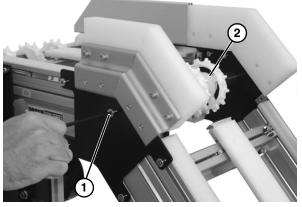


Figure 58

2. Remove three sprockets (Figure 59, item 1) off of shaft (Figure 59, item 2).

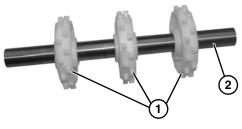


Figure 59

3. Remove socket cap screw (**Figure 60, item 1**) for each belt guide (**Figure 60, item 2**) on side of upper knuckle assembly. Repeat on opposite side.

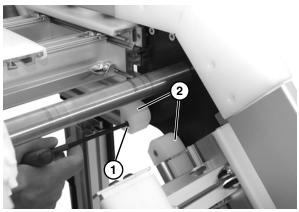


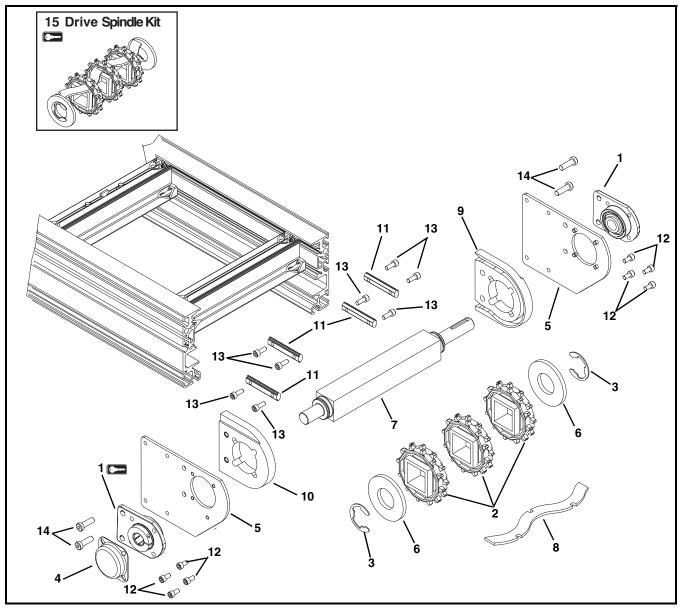
Figure 60

- 4. Replace parts as necessary.
- 5. Install parts reverse of removal.

NOTE

For replacement parts other than those shown in this section, contact an authorized Dorner Service Center or the factory. Key Service Parts and Kits are identified by the Performance Parts Kits logo 🖼 . Dorner recommends keeping these parts on hand.

Drive End Components

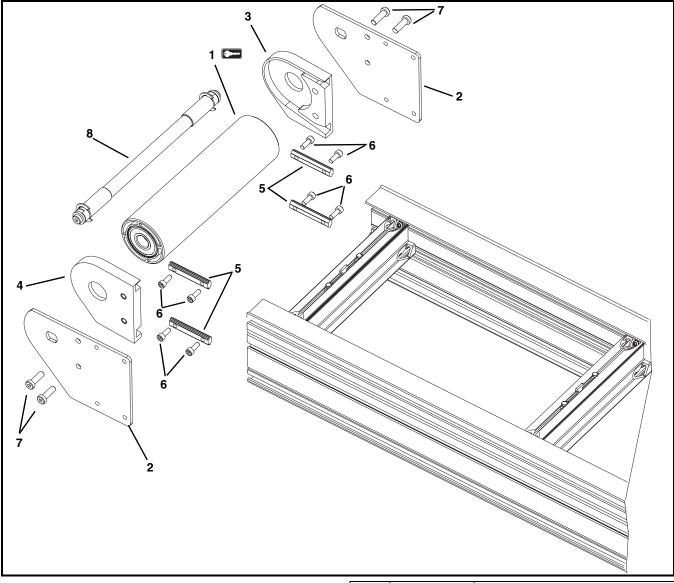


Item	Part Number	Description
1	52BKD	Drive Bearing Kit (Qty 2)
2	807-1444	Sprocket
3	915-240	Retaining Ring
4	300139	Shaft Cover
5	352109	Cover Plate
6	352111	Sprocket Alignment Retainer Key
7	352212- <u>WW</u>	Drive Spindle
8	352213- <u>WW</u>	Sprocket Alignment Bar
9	352214	Drive Terminal Assembly Left Hand

Item	Part Number	Description			
10	352215	Drive Terminal Assembly Right Hand			
11	300150M	Drop-In Tee Bar			
12	920612M	Socket Head Screw, M6-1.00 x 12 mm			
13	920616M	Socket Head Screw, M6-1.00 x 16 mm			
14	920895M	Low Head Cap Screw,			
		M8-1.25 x 25 mm			
15	52CDT- <u>WW</u>	Drive Spindle Kit			
		(Includes Items 2, 3, 6 and 8)			
<u>WW</u> =	<u>WW</u> = Conveyor width reference: 08 - 36 in 02 increments				

5200 Series Curved End Drive Conveyors

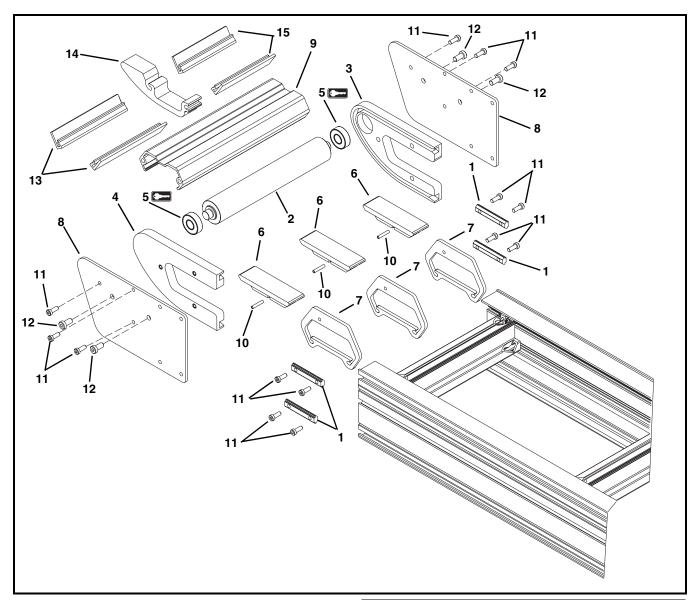
Idler End Components



Item	Part Number	Description
1	352033- <u>WW</u>	Idler Pulley Assembly
•		
2	352110	Cover Plate
3	352223	Idler Terminal Assembly Left Hand
4	352224	Idler Terminal Assembly Right Hand

Item	Part Number	Description			
5	300150M	Drop-In Tee Bar			
6	920616M	Socket Head Screw, M6-1.00 x 16 mm			
7	920895M	Low Head Cap Screw, M8-1.25 x 25 mm			
8	352034- <u>WW</u>	Idler Wand Assembly			
<u>WW</u> =	WW = Conveyor width reference: 08 - 36 in 02 increments				

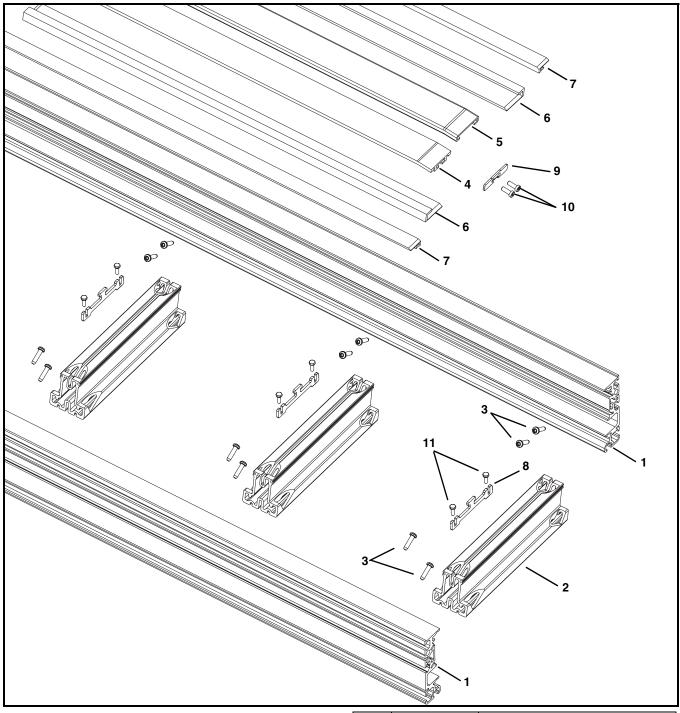
Nose Bar Idler End Components



Item	PartNumber	Description
1	300150M	Drop-In Tee Bar
2	352038- <u>WW</u>	Spindle Kit
3	352259	Nose Bar Terminal Assembly, Left Hand
4	352260	Nose Bar Terminal Assembly, Right Hand
5	52BKNBC	Bearing Kit
6	352128	Wear Guide
7	352246	Support Plate
8	352249	Tail Plate

Item	PartNumber	Description
9	352251- <u>WW</u>	Crossmember
10	913-405	Pin
11	920616M	Socket Head Screw, M6-1.00 x 16 mm
12	920893M	Low Head Cap Screw, M8-1.25 x 25 mm
13	352268- <u>WW</u>	Spacer
14	352266	Transfer Shoe
15	352269- <u>WW</u>	Shoe Spacer
<u>WW</u> =	Conveyor width	reference: 08 – 36 in 02 increments

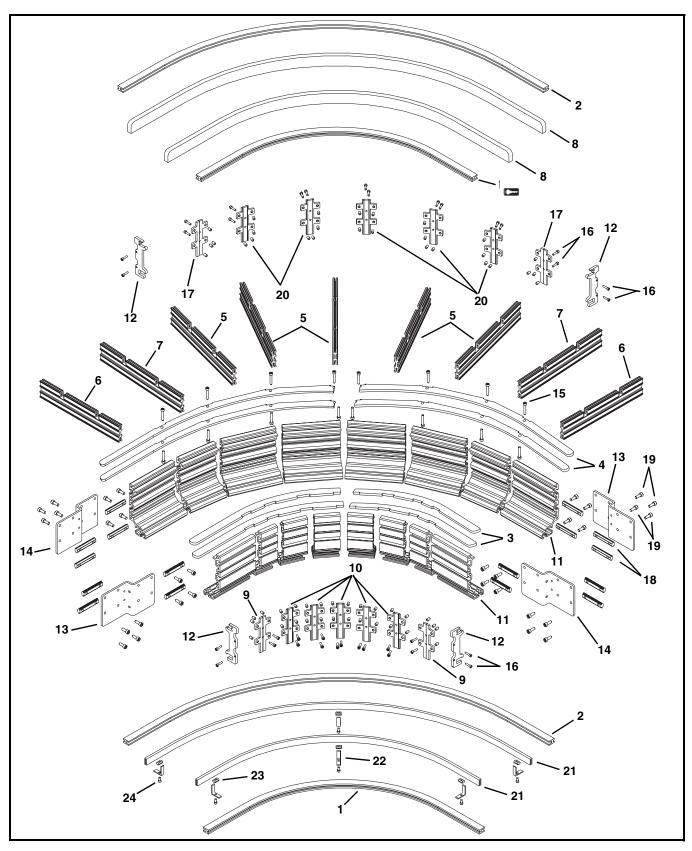
Frame Assembly



Item	Part Number	Description	Item	Part Number	Description	
1	352100- <u>LLLLL</u>	Side Rail	9	352107	Center Wearstrip Stop Plate	
2	352201- <u>WW</u>	Cross Support Rail	10	901-135	Button Head Cap Screw,	
3	352108	Pan Screw, M580 x 20 mm			1/4-20 x 0.88"	
4	352102- <u>LLLLL</u>	Center Bed Rail	11	960498M	Hex Head Cap Screw, M470 x 12 mm	
5	352103- <u>LLLLL</u>	Center Wearstrip				
6	352210- <u>LLLLL</u>	Top Wearstrip		<u>WW</u> = Conveyor width reference: $08 - 36$ in 02 increment		
7	352105- <u>LLLLL</u>	Return Wearstrip	<u>LLLLL</u> = Length in inches with 2 decimal places.			
8	352106	Center Bed Rail Hold Down Clip	Lengi	Length Example: Length = 95.25" LLLLL = 09525		

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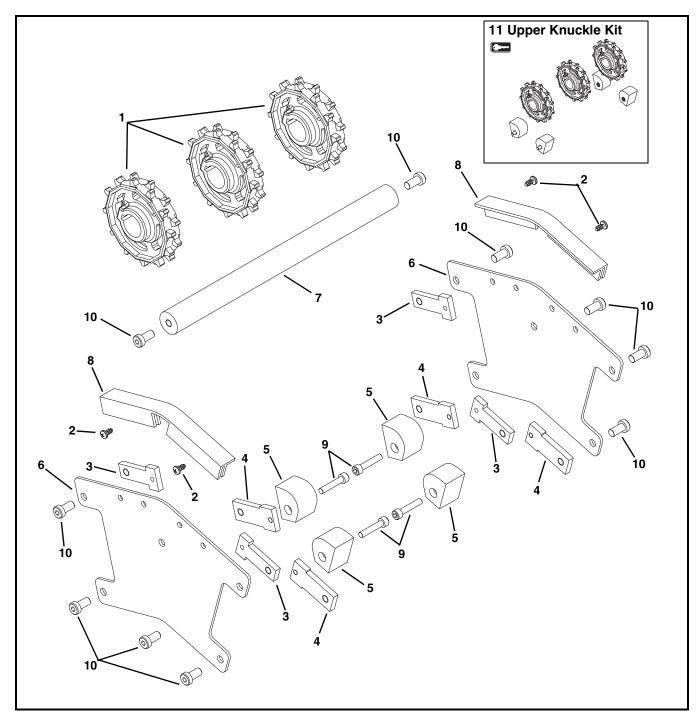


Item	Part Number	Description		
1	352203- <u>WW</u> -DDD	Inner Guide		
2	352204- <u>WW-DDD</u>	Outer Guide		
3	See Chart #3	Inner Spine		
4	See Chart #4	Outer Spine		
5	352202- <u>WW</u>	Cross Support Rail		
6	352207- <u>WW</u>	End Cross Support Rail		
7	352209- <u>WW</u>	7.5° Cross Support Rail		
8	352208- <u>LLLLL</u>	Top Wearstrip		
9	352273	7.5° Inner Connecting Plate		
		Assembly		
10	352271	15° Inner Connecting Plate Assembly		
11	352200- <u>SSSSS</u>	Side Rail		
12	352226	Guide Alignment Plate		
13	352227	Offset Connecting Plate, Right		
14	352228	Offset Connecting Plate, Left		
15	920530M	Socket Head Screw, M580x30mm		
16	920416M	Socket Head Screw, M470x16mm		
17	352274	7.5° Outer Connecting Plate Assembly		
18	300150M	Drop-In Tee Bar		
19	920616M	Socket Head Screw, M6-1x16mm		
20	352272	15° Outer Connecting Plate Assembly		
21	350075-LLLLL	Return Wear Strips (LPZ only)		
22	352335	Return Bracket (LPZ only)		
23	639971M	T-Nut (LPZ only)		
24	920612M	Socket Head Screw M6- 1 x 12mm		
<u>WW</u> =	Conveyor width refere	ence: 08 – 36 in 02 increments		
DDD =	Degree of curve			
Degre	e Example: Curve = 3	0° <u>DDD</u> = 030		
LLLLL	= Length in inches wi	th 2 decimal places.		
	<u>S</u> =: Length in inches v			
	n Example: Length = 9			
Length	n Example: Length = 6	5.873" <u>SSSSS</u> = 06873		

Chart #3		
Degree	Part Number	
15°	352231- <u>WW</u> (x2)	
30°	352233- <u>WW</u> (x2)	
45°	352235- <u>WW</u> (x2)	
60°	352237- <u>WW</u> (x2)	
75°	352239- <u>WW</u> & 352237- <u>WW</u>	
90°	352239- <u>WW</u> (x2)	
105°	352237- <u>WW</u> (x2) & 352243- <u>WW</u>	
120°	352239- <u>WW</u> (x2) & 352241- <u>WW</u>	
135°	352239- <u>WW</u> (x2) & 352243- <u>WW</u>	
150°	352239- <u>WW</u> (x2) & 352241- <u>WW</u> (x2)	
165°	352239- <u>WW</u> (x2), 352241- <u>WW</u> & 352243- <u>WW</u>	
180°	352239- <u>WW</u> (x2) & 352243- <u>WW</u> (x2)	

Chart #4		
Degree	Part Number	
15°	352232- <u>WW</u> (x2)	
30°	352234- <u>WW</u> (x2)	
45°	352236- <u>WW</u> (x2)	
60°	352238- <u>WW</u> (x2)	
75°	352240- <u>WW</u> & 352238- <u>WW</u>	
90°	352240- <u>WW</u> (x2)	
105°	352238- <u>WW</u> (x2) & 352244- <u>WW</u>	
120°	352240- <u>WW</u> (x2) & 352242- <u>WW</u>	
135°	352240- <u>WW</u> (x2) & 352244- <u>WW</u>	
150°	352240- <u>WW</u> (x2) & 352242- <u>WW</u> (x2)	
165°	352240- <u>WW</u> (x2), 352242- <u>WW</u> & 352244- <u>WW</u>	
180°	352240- <u>WW</u> (x2) & 352244- <u>WW</u> (x2)	

Upper Knuckle - Low Side

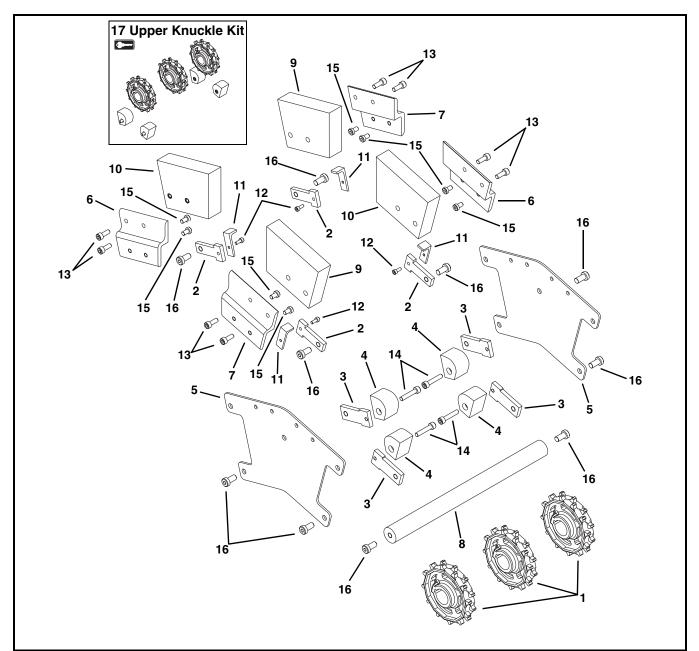


Item	Part Number	Description
1	807-1754	Sprocket
2	807-1759	Screw, M5 x 10 mm
3	352322	Top Stop Nut
4	352323	Bottom Stop Nut
5	352328	Belt Guide
6	325329- <u>AA</u>	Side Plate
7	352339- <u>WW</u>	Shaft
8	352334- <u>AA</u>	Low Side guide

Item	Part Number	Description	
9	920630M	Socket Head Screw, M6-1.00 x 30 mm	
10	920893M	Low Head Cap Screw, M8-1.25 x 16 mm	
11	52NO- <u>WW</u>	Upper Knuckle Kit (Includes Items 1, 5 and 9)	
<u>WW</u> =	WW = Conveyor width reference: 08 – 24 in 02 increments		
<u>AA</u> = A	<u>AA</u> = Angle 05, 10, 15 and 30		

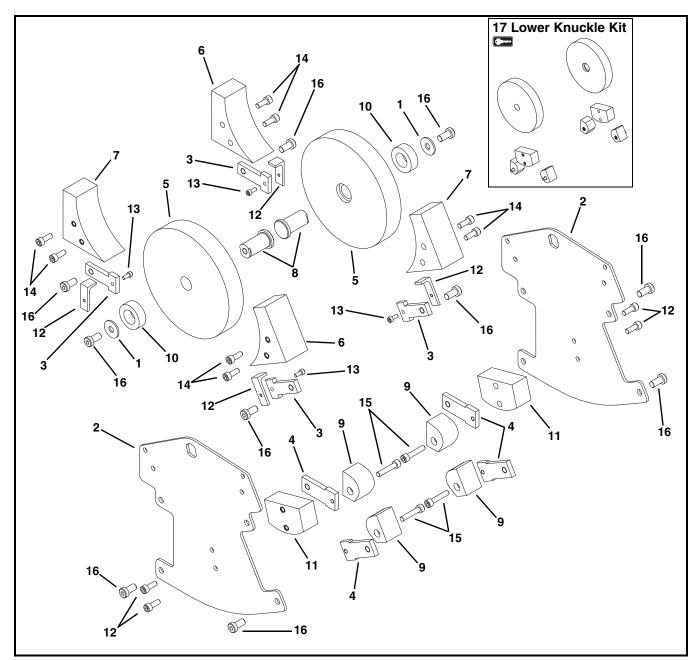
5200 Series Curved End Drive Conveyors

Upper Knuckle - High Side



Item	Part Number	Description	Item	Part Number	Description
1	807-1754	Sprocket	12	920410M	Socket Head Screw, M470 x 10 mm
2	352322	Top Stop Nut	13	920616M	Socket Head Screw, M6-1.00 x 16 m
3	352323	Bottom Stop Nut	14	920630M	Socket Head Screw, M6-1.00 x 30 m
4	352328	Belt Guide	15	920691M	Low Head Cap Screw,
5	325329- <u>AA</u>	Side Plate			M6-1.00 x 10 mm
6	352332- <u>AA</u>	High Side Mounting Guide Left Hand	16	920893M	Low Head Cap Screw, M8-1.23 x 16 mm
7	352333- <u>AA</u>	High Side Mounting Guide Right Hand		50110 14/14/	
8	352339- <u>WW</u>	Shaft	17	52NO- <u>WW</u>	Upper Knuckle Kit (Includes Items 1, and 14)
9	352343- <u>AA</u> -L	High Side Guide Left Hand WW = Conveyor width reference: 08 – 24 in 02 incm			
10	352343- <u>AA</u> -R	High Side Guide Right Hand	$\underline{AA} = \text{Angle 05, 10, 15 and 30}$		
11	352346	Wearstrip		angle 66, 16, 16 a	

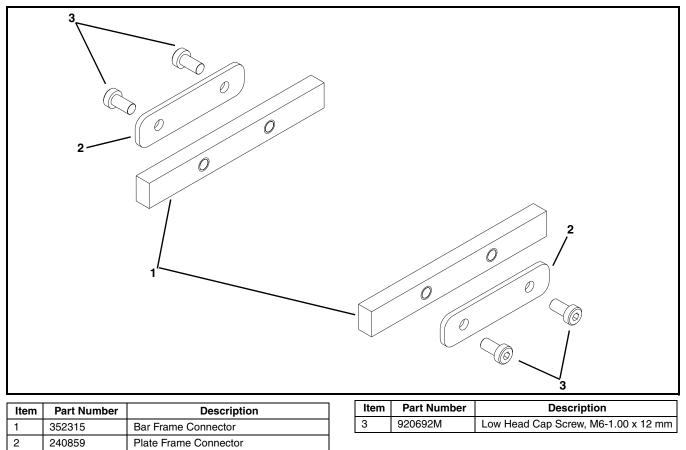
Lower Knuckle



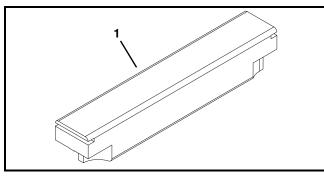
Item	Part Number	Description
1	807-1760	Washer
2	352321- <u>AA</u>	Side Plate
3	352322	Top Stop Nut
4	352323	Bottom Stop Nut
5	352324	Hold Down Guide
6	352325-L	Hold Down Guard Assembly Left Hand
7	352325-R	Hold Down Guard Assembly Right Hand
8	352327	Stub Shaft
9	352328	Belt Guide
10	352337	Hold Down Spacer

Item	Part Number	Description
11	352340	Return Block Guide
12	352346	Wearstrip
13	920410M	Socket Head Screw, M470 x 10 mm
14	920616M	Socket Head Screw, M6-1.00 x 16 mm
15	920630M	Socket Head Screw,
		M6-1.00 x 30 mm
16	920893M	Low Head Cap Screw,
		M8-1.23 x 16 mm
17	52HI	Lower Knuckle Kit (Includes Items 5, 9,
		11 and 15)
AA = A	Angle 05, 10, 15 a	and 30

Connecting Assembly

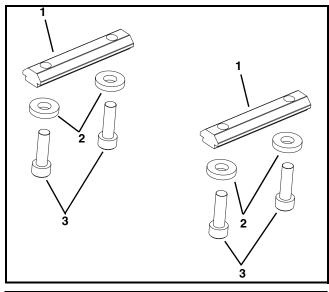


Flat Belt Returns



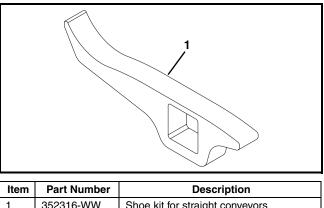
Item	Part Number	Description	
1	352220- <u>WW</u>	Returns - Straight Sections of Conveyor	
	352211- <u>WW</u>	Returns - Curved Sections of Conveyor	
<u>WW</u> =	WW = Conveyor width ref: 18 - 36 in 02 increments		

Stand Mount Kit



Item	Part Number	Description
1	300150M	Drop-In Tee Bar
2	605279P	Washer
3	920620M	Socket Head Screw, M6-1.00 x 20 mm

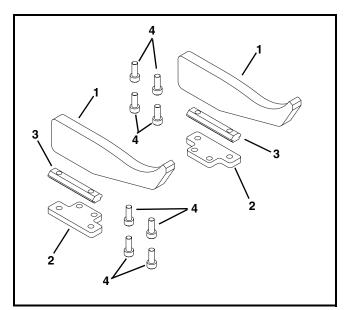
High Speed Shoe Kit



 1
 352316-WW
 Shoe kit for straight conveyors

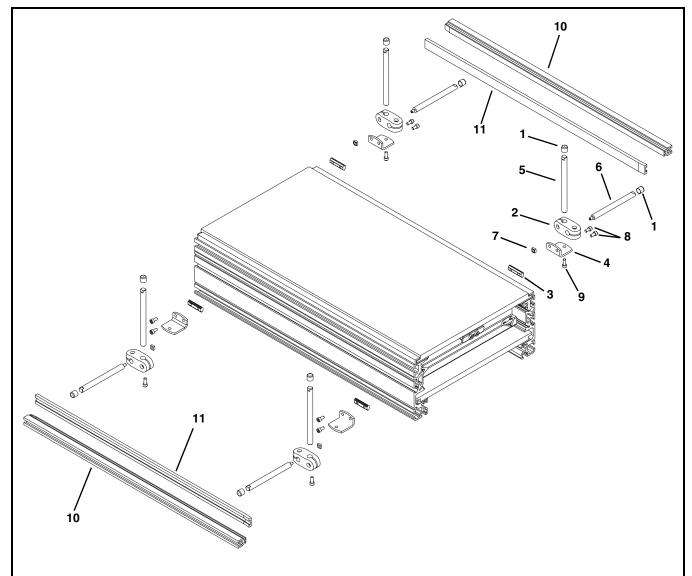
 WW = Conveyor width ref: 18 - 36 in 02 increments

LPZ High Speed Shoe Kit



Item	Part Number	Description
1	352338	Shoe Assembly
2	352345	Shoe Plate
3	300150M	Drop-In Tee Bar
4	920616M	Socket Head Screw, M6-1.00 x 16 mm

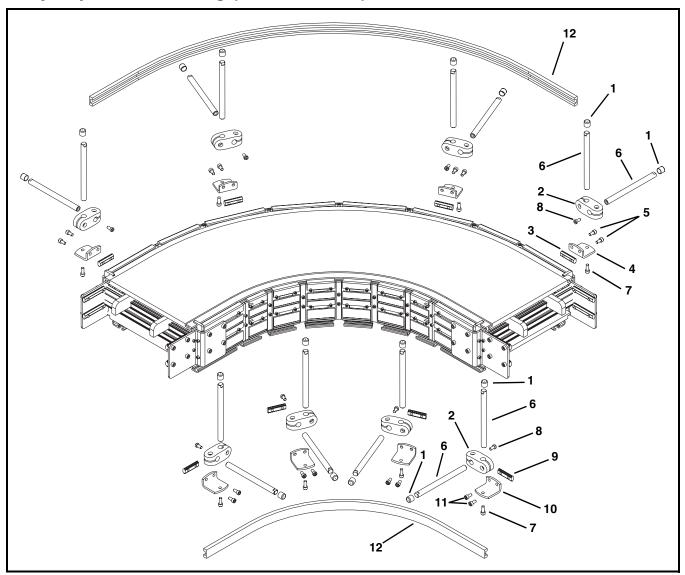
Fully Adjustable Guiding (Straight Module)



Item	Part Number	Description
1	807-948	Shaft Cap
2	807-652	Cross Block
3	200830M	Drop-In Tee Bar
4	202004M	Mounting Bracket
5	202027M	Vertical Mounting Guide Shaft
6	202028M	Horizontal Mounting Guide Shaft

Item	Part Number	Description	
7	674175MP	Square Nut, M6-1.00	
8	920612M	Socket Head Screw, M6-1.00 x 12 mm	
9	920616M	Socket Head Screw, M6-1.00 x 16 mm	
10	381300- <u>LLLLL</u>	Aluminum Profile Guide	
11	614068P	Extruded Guide (Per Foot)	
LLLLL	LLLLL = Length in inches with 2 decimal places.		
Length	Length Example: Length = 95.25" LLLLL = 09525		

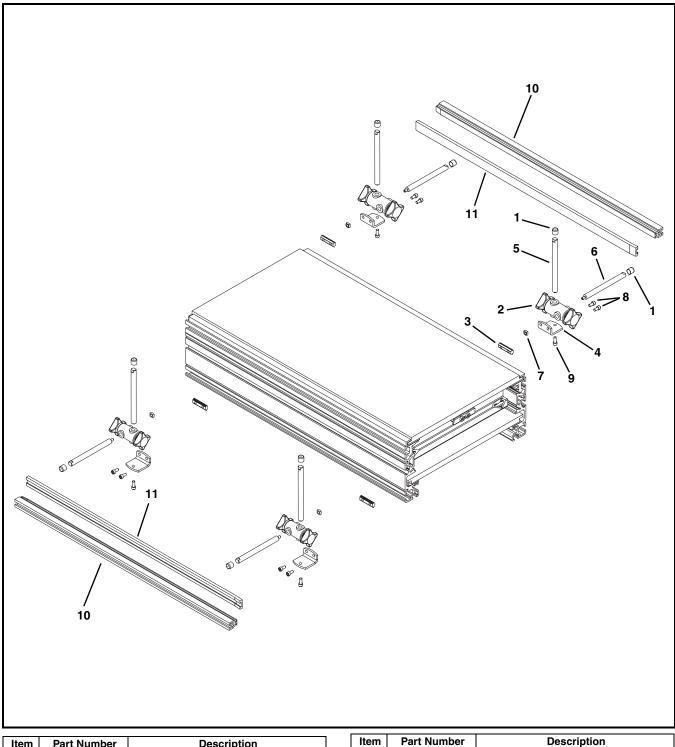
Fully Adjustable Guiding (Curve Module)



Item	Part Number	Description
1	807-948	Shaft Cap
2	807-652	Cross Block
3	200830M	Drop-In Tee Bar, Outer Curve
4	202004M	Mounting Bracket, Outer Curve
5	920612M	Socket Head Screw, M6-1.00x12 mm
6	202027M	Mounting Guide Shaft
7	920616M	Socket Head Screw, M6-1.00x16 mm
8	920692M	Low Head Cap Screw, M6-1.00x16 mm
9	200830M	Drop-In Tee Bar, Inner Curve (12" through 36" wide)

Item	Part Number	Description
10	325303	Mounting Bracket, Inner Curve (8" and 10" wide)
	202004M	Mounting Bracket, Inner Curve (12" through 36" wide)
11	920512M	Socket Head Screw, M580x12 mm for inner curve (8" and 10" wide)
	920616M	Socket Head Screw, M6-1.00x12 mm for inner curve (12" through 36" wide)
12	234014	U-Channel Guide, 4' Long

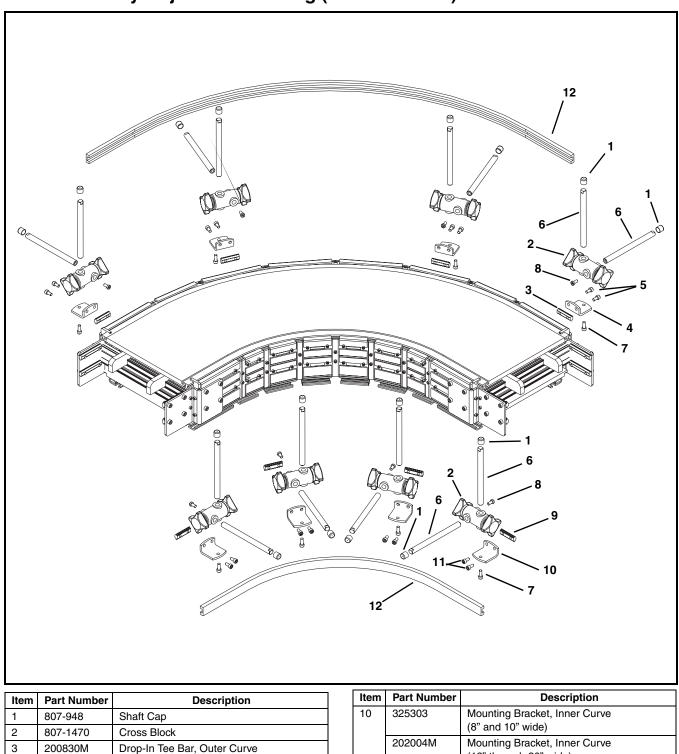
Tool-Less Fully Adjustable Guiding (Straight Module)



Item	Part Number	Description
1	807-948	Shaft Cap
2	807-1470	Cross Block
3	200830M	Drop-In Tee Bar
4	202004M	Mounting Bracket
5	202027M	Vertical Mounting Guide Shaft
6	202028M	Horizontal Mounting Guide Shaft
7	674175MP	Square Nut, M6-1.00

Item	Part Number	Description	
8	920612M	Socket Head Screw, M6-1.00 x 12 mm	
9	920616M	Socket Head Screw, M6-1.00 x 16 mm	
10	381400- <u>LLLLL</u>	Aluminum Profile Guide	
11	614068P	Extruded Guide (Per Foot)	
LLLLL = Length in inches with 2 decimal places.			
Length Example: Length = 95.25" LLLLL = 09525			

5200 Series Curved End Drive Conveyors



Tool-Less Fully Adjustable Guiding (Curve Module)

11

12

920512M

920616M

234014

202004M

920612M

202027M

920616M

920692M

200830M

Mounting Bracket, Outer Curve

Drop-In Tee Bar, Inner Curve

Mounting Guide Shaft

(12" through 36" wide)

Socket Head Screw, M6-1.00x12 mm

Socket Head Screw, M6-1.00x16 mm

Low Head Cap Screw, M6-1.00x16 mm

4

5

6

7

8

9

(12" through 36" wide)

Socket Head Screw, M5-.80x12 mm

Socket Head Screw, M6-1.00x12 mm

for inner curve (12" through 36" wide)

for inner curve (8" and 10" wide)

U-Channel Guide, 4' Long

Ordering a Replacement Chain

Determine the length of chain required for the conveyor and round up to the nearest foot length. Order the proper number of chain repair kits (1' long each) for your conveyor. Dorner will ship chain kits that are of a reasonable length fully assembled

Example:

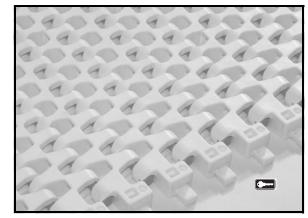
Overall chain length = 42' 5'' (rounded up = 43')

Order: Qty (43) of 52MT-WW

MT = Chain reference number

<u>WW</u> = Conveyor width ref: 08-36 in 02 increments

Flat Belt Chain Repair Kit



Item	Part Number	Description
1	52MT- <u>WW</u>	Flat Belt Chain Repair kit (Includes 1 ft (305 mm) of flat belt chain and assembly pins)
WW = Conveyor width ref: 08 - 36 in 02 increments		

Notes

Return Policy

Returns must have prior written factory authorization or they will not be accepted. Items that are returned to Dorner without authorization will not be credited nor returned to the original sender. When calling for authorization, please have the following information ready for the Dorner factory representative or your local distributor:

- 1. Name and address of customer.
- 2. Dorner part number(s) of item(s) being returned.
- 3. Reason for return.
- 4. Customer's original order number used when ordering the item(s).
- 5. Dorner or distributor invoice number.

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization number for reference.

There will be a return charge on all new undamaged items returned for credit where Dorner was not at fault. Dorner is not responsible for return freight on such items.

Conveyors and conveyor accessories

Standard catalog conveyors	30%
MPB Series, cleated and specialty belt conveyors	50%
7400 & 7600 Series conveyors	non-returnable items
Engineered special products	case by case
Drives and accessories	30%
Sanitary stand supports	non-returnable items
Parts	
Standard stock parts	30%
MPB, cleated and specialty belts	non-returnable items

Returns will not be accepted after 60 days from original invoice date.

The return charge covers inspection, cleaning, disassembly, disposal and reissuing of components to inventory.

If a replacement is needed prior to evaluation of returned item, a purchase order must be issued. Credit (if any) is issued only after return and evaluation is complete.

Dorner has representatives throughout the world. Contact Dorner for the name of your local representative. Our Technical Sales, Catalog Sales and Service Teams will gladly help with your questions on Dorner products.

For a copy of Dorner's Warranty, contact factory, distributor, service center or visit our website at www.dorner.com.

For replacement parts, contact an authorized Dorner Service Center or the factory.



Dorner Mfg. Corp. reserves the right to change or discontinue products without notice. All products and services are covered in accordance with our standard warranty. All rights reserved. © Dorner Mfg. Corp. 2008 DORNER MFG. CORP.

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