

# 5200 Series End Drive Conveyors

Installation, Maintenance and Parts Manual



DORNER MFG. CORP. P.O. Box 20 • 975 Cottonwood Ave. Hartland, WI 53029-0020 USA INSIDE THE USA TEL: 1-800-397-8664 FAX: 1-800-369-2440 OUTSIDE THE USA TEL: 262-367-7600 FAX: 262-367-5827

For other service manuals visit our website at: www.dorner.com/service\_manuals.asp

# **Table of Contents**

Introduction	2
Warnings – General Safety	3
Product Description	4
Specifications	
Flat Belt Straight 5200 Series Conveyor	
Cleated Belt Straight 5200 Series Conveyor	
Flat Belt LPZ 5200 Series Conveyor	
(Infeed Section to Knuckle)	5
Flat Belt LPZ 5200 Series Conveyor	
(Mid Section Between Knuckles)	5
Flat Belt LPZ 5200 Series Conveyor	
(Discharge Section to Knuckle)	5
Cleated Belt LPZ 5200 Series Conveyor	
(Infeed Section to Knuckle)	5
Cleated Belt LPZ 5200 Series Conveyor	-
(Mid Section Between Knuckles)	5
Cleated Belt LPZ 5200 Series Conveyor	-
(Discharge Section to Knuckle)	5
Conveyor Supports	
Specifications	6
Installation	7
Required Tools	7
Recommended Installation Sequence	
Conveyor Sections Longer than 12 ft (3658 mm)	
	7
LPZ Conveyors	
Knuckles	
All Conveyors	
Stand Installation	9
Belt Installation	
Drive Package Installation 1	
Preventive Maintenance and Adjustment 1	
Required Tools 1	1
	1
	1
	1
	1
	1
	1
Replacing the Entire Belt 1	2
Conveyor Belt Tensioning 1	2
Wear Strips 1	2

	Removal	
	Installation	
	Spindle Removal	
	A - Drive Spindle Removal	14
	B - Idler Spindle Removal	
	C - Nose Bar Idler Spindle Removal	17
	Spindle Replacement	
	Drive Spindle	18
	Idler Spindle	
	Nose Bar Idler Spindle	18
	Bearing Replacement	18
	Drive Bearing Removal and Replacement	18
	Removal	18
	Replacement	18
	Maintenance of Knuckles	19
	Lower Knuckle	19
	Upper Knuckle	19
S	ervice Parts	
	Drive End Components	20
	Idler End Components	
	Nose Bar Idler End Components	
	Frame Assembly	
	Upper Knuckle - Low Side	24
	Upper Knuckle - High Side	25
	Lower Knuckle	
	Connecting Assembly	27
	1" (25 mm) High Sides	28
	3" (76 mm) High Sides	29
	Fully Adjustable Guiding	
	Tool-Less Fully Adjustable Guiding	31
	Twin Rail Adjustable Guiding	
	1" (25 mm) Cleated Guiding	33
	3" (76 mm) Cleated Guiding	34
	Flat Belt Returns	
	Stand Mount Kit	
	High Speed Shoe Kit	
	LPZ High Speed Shoe Kit	35
	Ordering a Replacement Chain	36
	Flat Belt Chain Repair Kit	
	Cleated Belt Chain Repair Kit	36
N	otes	
	eturn Policy	

# Introduction

### **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.

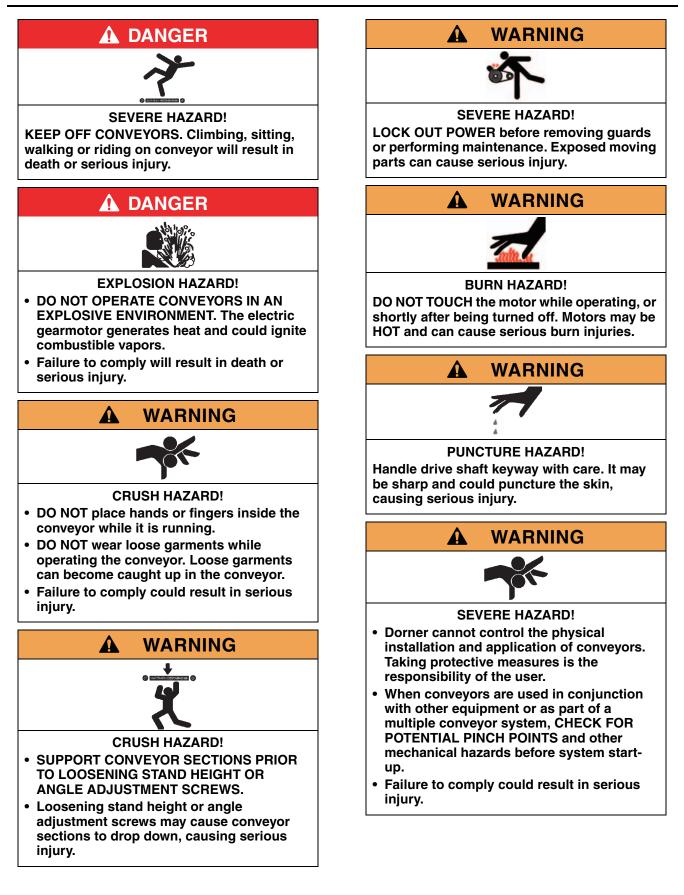
The Dorner Limited Warranty applies.

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 (Flat Belt Shown)
- 4 Support Stands
- 5 Drive End
- 6 Idler End

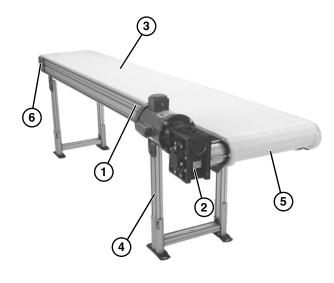
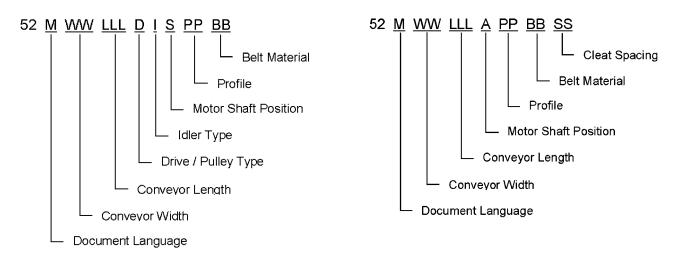


Figure 1

# **Specifications**

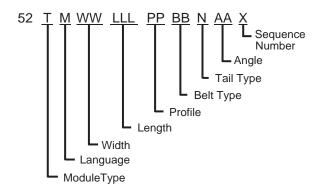
# Flat Belt Straight 5200 Series Conveyor

### Cleated Belt Straight 5200 Series Conveyor

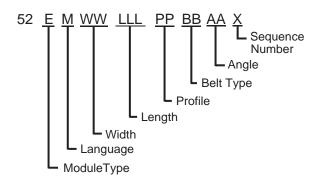


# **Specifications**

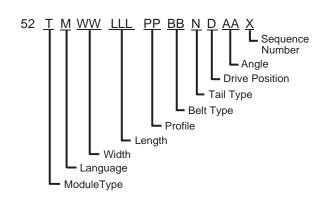
# Flat Belt LPZ 5200 Series Conveyor (Infeed Section to Knuckle)



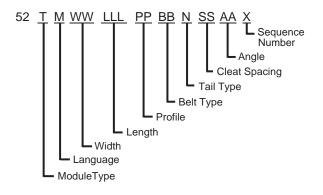
### Flat Belt LPZ 5200 Series Conveyor (Mid Section Between Knuckles)



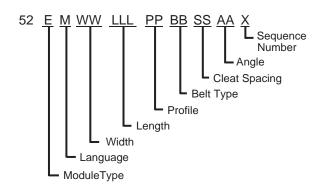
# Flat Belt LPZ 5200 Series Conveyor (Discharge Section to Knuckle)



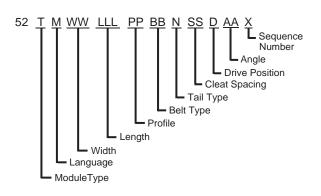
### Cleated Belt LPZ 5200 Series Conveyor (Infeed Section to Knuckle)



### Cleated Belt LPZ 5200 Series Conveyor (Mid Section Between Knuckles)



### Cleated Belt LPZ 5200 Series Conveyor (Discharge Section to Knuckle)



# **Specifications**

### **Conveyor Supports**

#### Maximum Distances:

- 1 = Support Stand on Idler End = 3 ft (914 mm)
- 2 = Between Support Stands = 12 ft (3658 mm)\*\*
- 3 = Support Stand on Drive End = 3 ft (914 mm)
- \*\* For conveyors longer than 12 ft (3658 mm), install stand mount kit at frame joint.
- \* LPZ stand positions may vary, please consult factory.

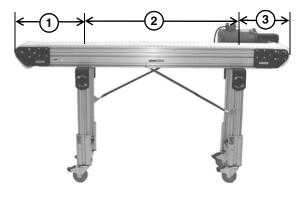


Figure 2

## **Specifications**

Conveyor Width Reference (WW)	08 - 60 in 02 increments
Conveyor Belt Width	8" (203 mm) - 60" (1524 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 <sup>2</sup> (97 kg/ m <sup>2</sup> ) with a maximum of 1000 lbs. (454 kg)
Belt Travel	12" (305 mm) per revolution of pulley
Maximum Belt Speed	250 ft/minute (76 m/minute)
Conveyor Length Reference (LLL)	036 - 999 in 001 increments
Conveyor Length	36" (914 mm) - 999" (25.4 m) in 1" (25 mm) increments
LPZ Section Length (LLL)	024 - 288 in 001 increments
LPZ Section Length	24" (610 mm) - 288" (7315 mm) in 1" (25 mm) increments

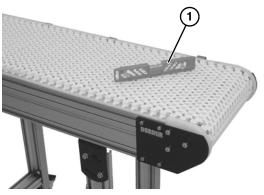
### IMPORTANT

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

### CAUTION

Conveyor MUST be mounted straight, flat and level within confines of conveyor. Use a level (Figure 3, 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 "Conveyor Sections Longer than 12 ft (3658 mm)" on page 7, "All Conveyors" on page 9, or Refer to "LPZ Conveyors" on page 8.
- 2. Attach the stands. Refer to "Stand Installation" on page 9.
- 3. Install the gearmotor. Refer to "Drive Package Installation" on page 10.

# Conveyor Sections Longer than 12 ft (3658 mm)

#### **Connecting Components**

Typical Connecting Components (Figure 4)

- 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

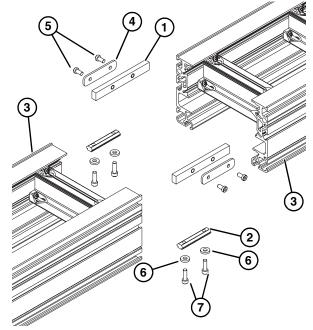


Figure 4

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

# Installation

## NOTE

The stop plate (Figure 5, item 1) on the center wear strip (Figure 5, item 2) faces the drive end (Figure 5, item 3) of the conveyor.

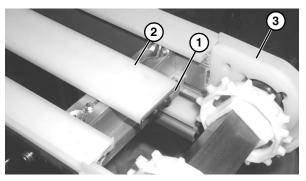


Figure 5

## 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 6, item 1) on each side of upper knuckle assembly (Figure 6, item 2), and sliding T-Nuts into straight frame section (Figure 6, item 3).

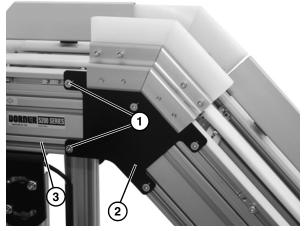
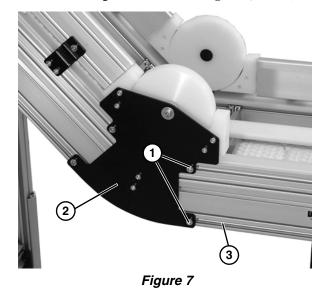


Figure 6

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



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

# Installation

### **All Conveyors**

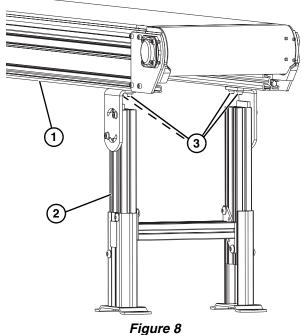
#### **Stand Installation**

#### NOTE

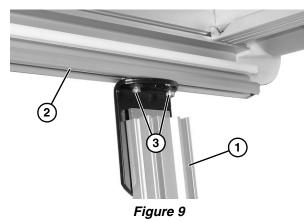
For detailed assembly instructions, please see your appropriate support stand manual.

Typical stand components (Figure 8)

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



- riguie
- 1. Properly support the conveyor.
- 2. Attach stands (**Figure 9, item 1**) to the bottom of the conveyor frame (**Figure 9, item 2**). Tighten socket head screws (**Figure 9, item 3**), on each side, to secure in place.



#### **Belt Installation**

Typical Belt Components (Figure 10)

- 1 Chain Belt
- 2 Belt Rod

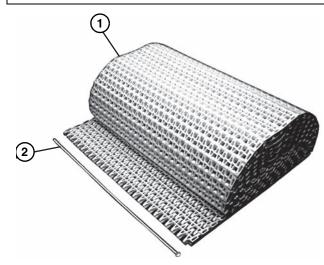


Figure 10

1. Position the belt on the conveyor frame (Figure 11).

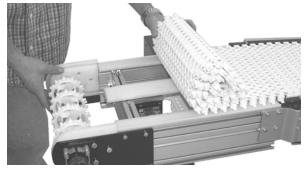


Figure 11

- 2. Wrap belt around idler tail.
- 3. Install belt around lower frame section and above lower wear strips (Figure 12, item 1).

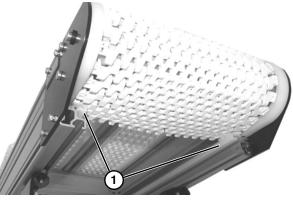


Figure 12

#### 5200 Series End Drive Conveyors

# Installation

4. Wrap the belt around the drive end of the conveyor, making sure the sprocket teeth have engaged the belt, with concave teeth (**Figure 13, item 1**) mating with rounded section (**Figure 13, item 2**) of belt.

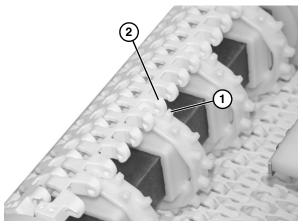


Figure 13

5. Bring the ends of the belt together (Figure 14).

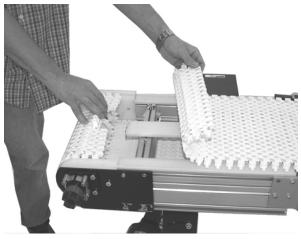
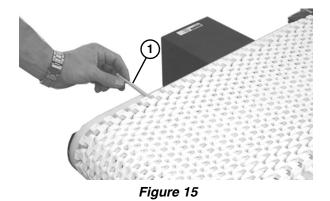


Figure 14

6. Insert the belt rod (**Figure 15, item 1**).



- 7. Push the belt rod in as far as possible.
- 8. Lightly tap the head of the rod with a hammer until it snaps into position.

#### **Drive Package Installation**

### NOTE

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

1. Attach the motor (Figure 16, item 1) to the gear reducer (Figure 16, item 2).



Figure 16

### **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 20 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**



#### **Replacing a Section of Belt**

parts can cause serious injury.

 Use a punch and hammer to push the belt rod (Figure 17, 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.

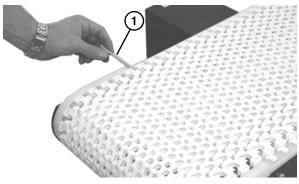


Figure 17

3. Replace old section of belt.



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

#### **Replacing the Entire Belt**

 Use a punch and hammer to push the belt rod (Figure 18, item 1) out by striking the rod end opposite the retaining head.

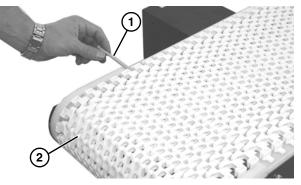


Figure 18

- 2. Slide the old belt (**Figure 18, item 2**) off the conveyor frame.
- 3. Replace the old belt with a new one. Refer to "Belt Installation" on page 9.

### 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.

1. Remove one or more belt links to take up tension. Refer to "Replacing a Section of Belt" on page 11.

### Wear Strips

Replace the wear strips if they become worn.

Typical Standard Wear Strips (Figure 19)

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

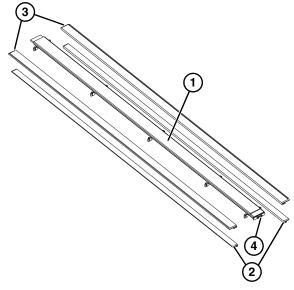
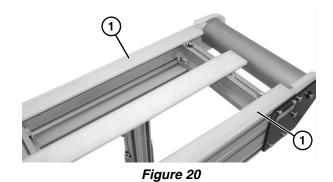


Figure 19

#### Removal

1. Remove upper wear strips (Figure 20, item 1) from top of frame assembly.



2. Remove lower wear strips (Figure 21, item 1), and if necessary, lower belt return (Figure 21, item 2) from lower frame assembly.

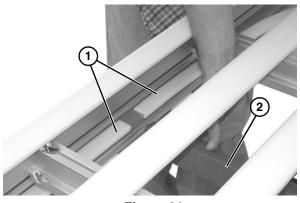


Figure 21

3. Remove two screws (Figure 22, item 1) from each clamp on center frame channel.

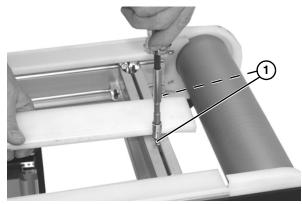
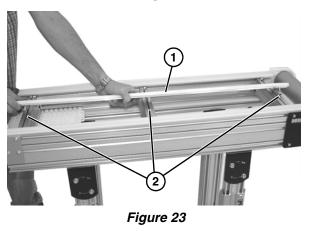
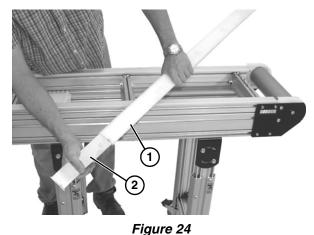


Figure 22

4. Remove center frame channel (**Figure 23, item 1**), making sure to keep each clamp matched with channel of each cross member (**Figure 23, item 2**).



5. Remove the center wear strip (Figure 24, item 1) from the center frame channel (Figure 24, item 2).



#### Figure

#### Installation

#### NOTE

The stop plate (Figure 25, item 1) on the center wear strip (Figure 25, item 2) faces the drive end (Figure 25, item 3) of the conveyor.

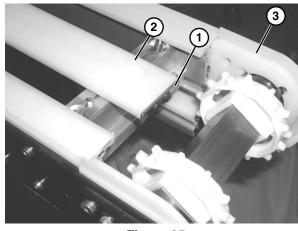


Figure 25

Install components reverse of removal.

### **Spindle Removal**



Remove conveyor belt to access spindle(s). See "Replacing the Entire Belt" on page 12. 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



- Remove the gearmotor. For detailed instructions, refer 1. to the appropriate drive package manual.
- Loosen the four socket head screws (Figure 26, item 1). 2. Repeat on opposite side.

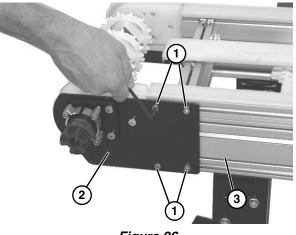
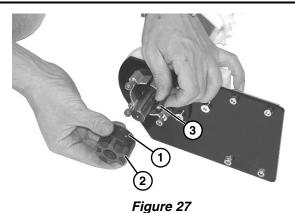


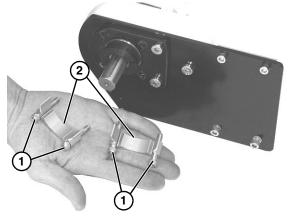
Figure 26

- Remove the drive tail assembly (Figure 26, item 2) 3. from the frame (Figure 26, item 3).
- Loosen set screw (Figure 27, item 1) and remove 4. coupling (Figure 27, item 2).



Remove key (Figure 27, item 3).

5. Remove four socket head screws (Figure 28, item 1) 6. and drive guards (Figure 28, item 2).



#### Figure 28

7. Loosen the bearing collar set screw (Figure 29, item 1) and remove bearing collar (Figure 29, item 2).

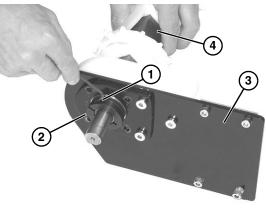


Figure 29

Remove plate (Figure 29, item 3) from drive spindle 8. (Figure 29, item 4).

9. Remove retaining clip (Figure 30, item 1) and flanged puck (Figure 30, item 2) from drive spindle.

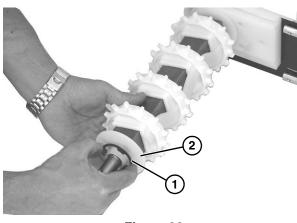
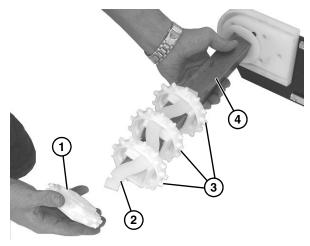


Figure 30

10. Slide entire sprocket assembly slightly outward, and remove the first sprocket (Figure 31, item 1) off the drive spindle and alignment bar (Figure 31, item 2).





- 11. Remove remaining sprockets (**Figure 31, item 3**) off the alignment bar as you slide entire assembly off the drive spindle (**Figure 31, item 4**).
- To assemble sprockets onto drive spindle, slide one sprocket (Figure 32, item 1) onto alignment bar (Figure 32, item 2) and slide assembly onto drive spindle (Figure 32, item 3).

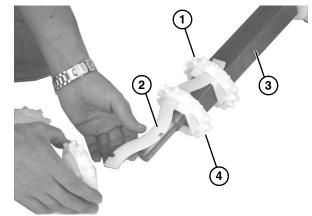


Figure 32

- 13. Install second sprocket (**Figure 32, item 4**) and subsequent sprockets one by one, while sliding entire assembly onto alignment bar and spindle.
- 14. Check drive terminal assembly (Figure 33, item 1) for wear. If worn, remove three low head cap screws (Figure 33, item 2) and replace.



Figure 33

NOTE

When reinstalling the drive spindle tail assembly, the terminal assembly (*Figure 34, item 1*) should mate flush with the conveyor frame (*Figure 34, item 2*).

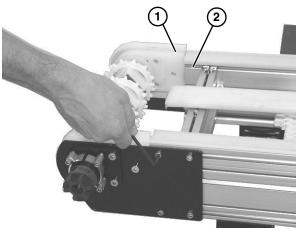


Figure 34

#### **B** – Idler Spindle Removal

- 1. Be sure the conveyor is supported.
- 2. On one side of conveyor, loosen the four socket head screws (**Figure 35, item 1**). Repeat on opposite side.

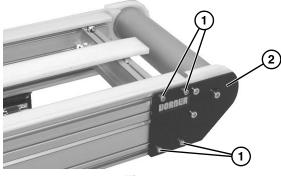


Figure 35

- 3. Remove idler tail assembly (Figure 35, item 2).
- Remove socket head screw (Figure 36, item 1) from plate (Figure 36, item 2) and center of spindle shaft (Figure 36, item 3). Repeat procedure on opposite side.

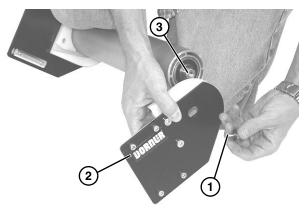


Figure 36

 Remove the spindle shaft assembly: remove the clip ring (Figure 37, item 1) and washer (Figure 37, item 2) from one side of the spindle assembly.

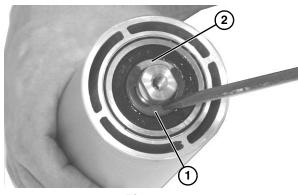
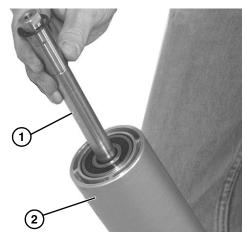


Figure 37

6. Slide the shaft assembly (**Figure 38, item 1**) out of the pulley (**Figure 38, item 2**).





 Check idler terminal assembly (Figure 39, item 1) for wear. If worn, remove two low head cap screws (Figure 39, item 2) and replace.

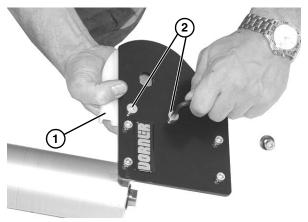


Figure 39

## NOTE

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

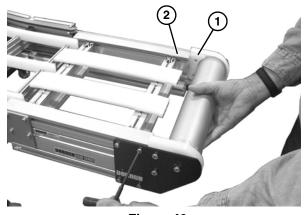


Figure 40

#### 5200 Series End Drive Conveyors

#### 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 41, item 1). Repeat on opposite side.

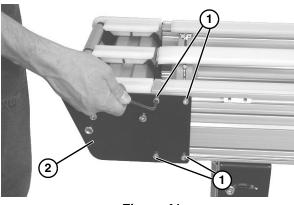


Figure 41

- 3. Remove idler tail assembly (Figure 41, item 2).
- 4. Remove two low head cap screws (Figure 42, item 1) from plate (Figure 42, item 2). Repeat procedure on opposite side.

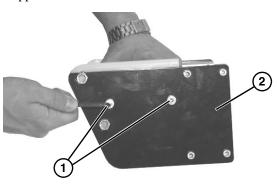
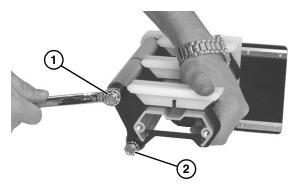


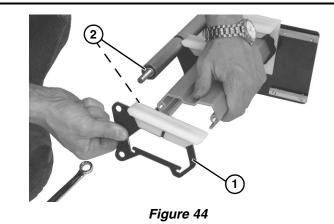
Figure 42

5. Remove upper nut (**Figure 43, item 1**) and spacer from end of axle shaft assembly.



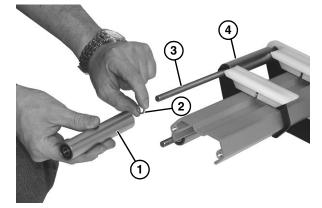
#### Figure 43

- 6. Remove lower nut (**Figure 43, item 2**) and spacer from lower axle shaft assembly.
- 7. Slide the support plate (**Figure 44, item 1**) off of both axle shafts.



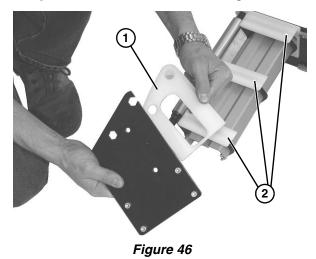
8. Remove washer (Figure 44, item 2) off of lower and upper axle shafts.

9. Remove roller assembly (Figure 45, item 1) and washer (Figure 45, item 2) from axle shaft (Figure 45, item 3).



#### Figure 45

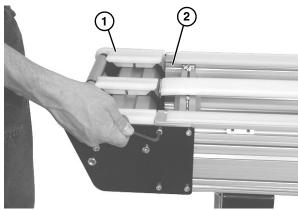
- 10. Remove remaining roller assembly components (Figure 45, item 4) on opposite side.
- 11. Check idler terminal assembly on each side (Figure 46, item 1) for wear. If worn, replace.



12. Remove and replace wear guides (**Figure 46, 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 47, item 1*) should mate flush with the conveyor frame (*Figure 47, item 2*).





# Spindle Replacement

### **Drive Spindle**

To replace the drive spindle, reverse the "A - Drive Spindle Removal" procedure on page 14.

### **Idler Spindle**

To replace the idler spindle, reverse the "B - Idler Spindle Removal" procedure on page 16.

### Nose Bar Idler Spindle

To replace the idler spindle, reverse the "C - Nose Bar Idler Spindle Removal" procedure on page 17.

### **Bearing Replacement**



#### **Drive Bearing Removal and Replacement**



#### Removal

1. Turn bearing (Figure 48, item 1) to align with slots (Figure 48, item 2) in bearing housing. Then remove bearing.

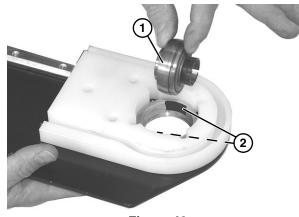


Figure 48

#### Replacement

- 1. Inspect bearing housing bearing surface. If worn or damaged, replace. See "Service Parts" on page 20.
- 2. Insert bearing (Figure 49, item 1) into housing slot: Locate anti–rotation nub (Figure 49, item 2) to align with slot (Figure 49, item 3), and twist bearing into housing.

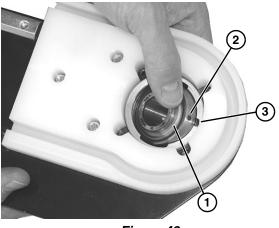
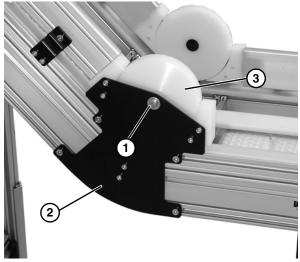


Figure 49

### **Maintenance of Knuckles**

#### Lower Knuckle

 Remove cap screw (Figure 50, item 1), washer, and spacer on side of lower knuckle assembly (Figure 50, item 2), and remove hold down guide (Figure 50, item 3). Repeat on opposite side.



#### Figure 50

 Remove two socket cap screws (Figure 51, item 1) for all four hold down guards (Figure 51, item 2) on side of lower knuckle assembly (Figure 51, item 3).

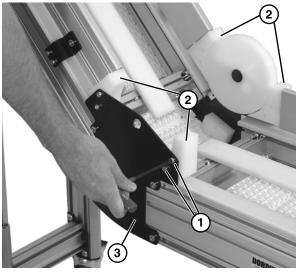


Figure 51

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

#### **Upper Knuckle**

1. Remove socket head cap screw (**Figure 52, item 1**), on each side of upper knuckle assembly, and remove shaft and sprocket assembly (**Figure 52, item 2**).

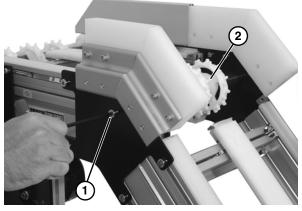


Figure 52

2. Remove three sprockets (Figure 53, item 1) off of shaft (Figure 53, item 2).

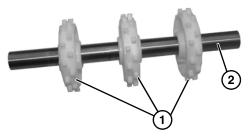


Figure 53

3. Remove socket cap screw (**Figure 54, item 1**) for each belt guide (**Figure 54, item 2**) on side of upper knuckle assembly. Repeat on opposite side.

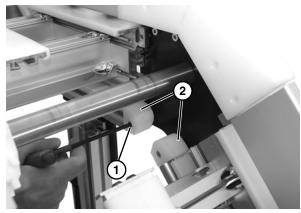


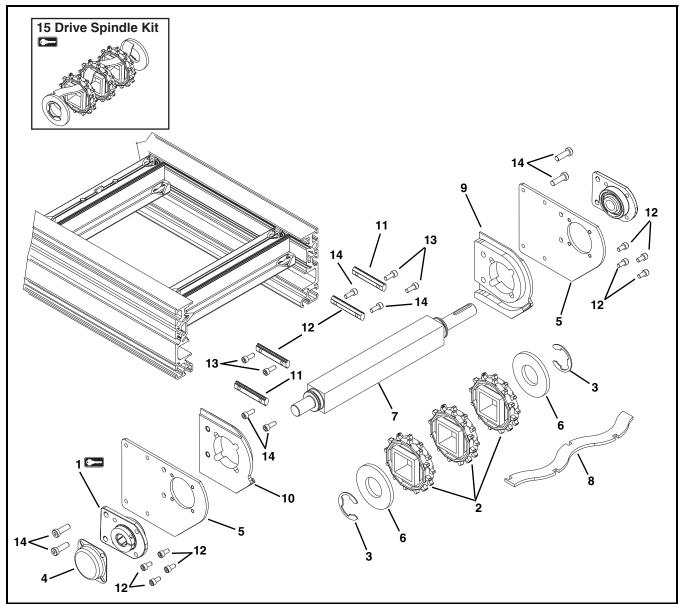
Figure 54

- 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**

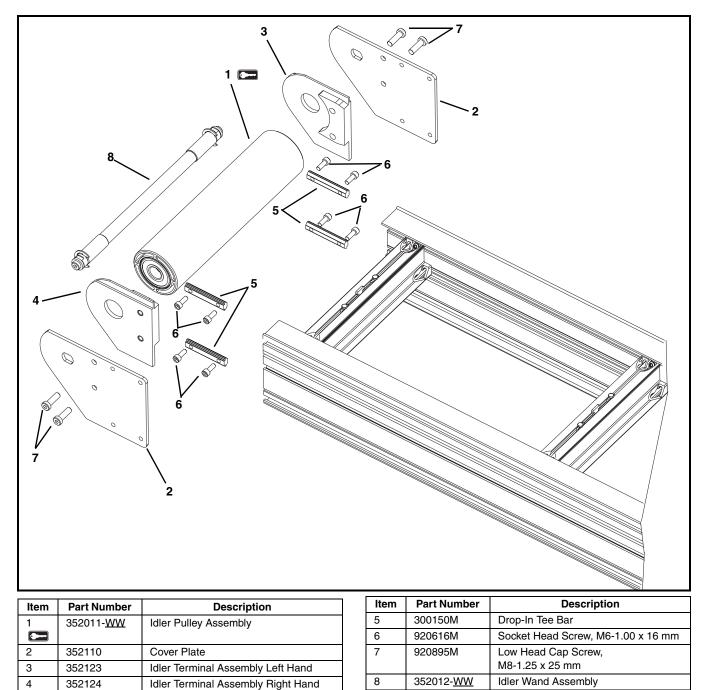


Item	Part Number	Description
1	52BKD	Drive Bearing Kit (Qty 2)
2	807-1444	Sprocket
3	915-240	Retaining Ring
4	300139	Shaft Cover
5	352109	Cover Plate
6	352111	Sprocket Alignment Retainer Key
7	352112- <u>WW</u>	Drive Spindle
8	352113- <u>WW</u>	Sprocket Alignment Bar
9	352121	Drive Terminal Assembly Left Hand
10	352122	Drive Terminal Assembly Right Hand

ltem	Part Number	Description
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	52DT- <u>WW</u>	Drive Spindle Kit
		(Includes Items 2, 3, 6 and 8)
<u>WW</u> = Conveyor width reference: 08 – 60 in 02 increments		

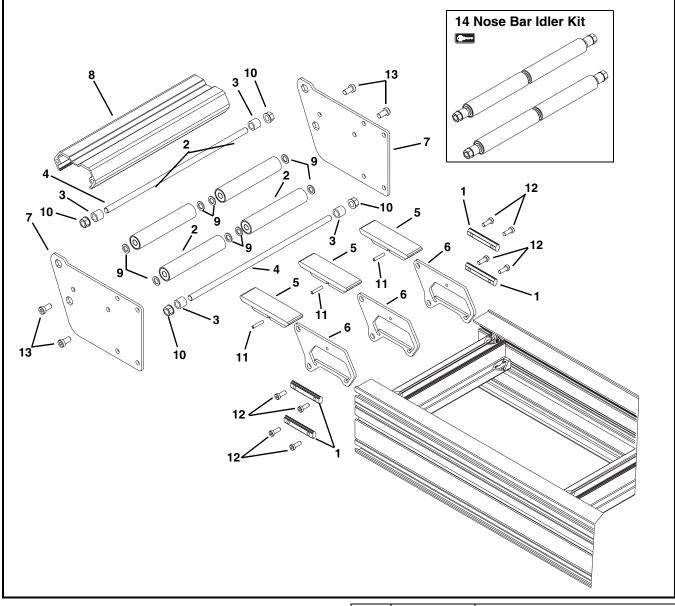
5200 Series End Drive Conveyors

### **Idler End Components**



WW = Conveyor width reference: 08 - 60 in 02 increments

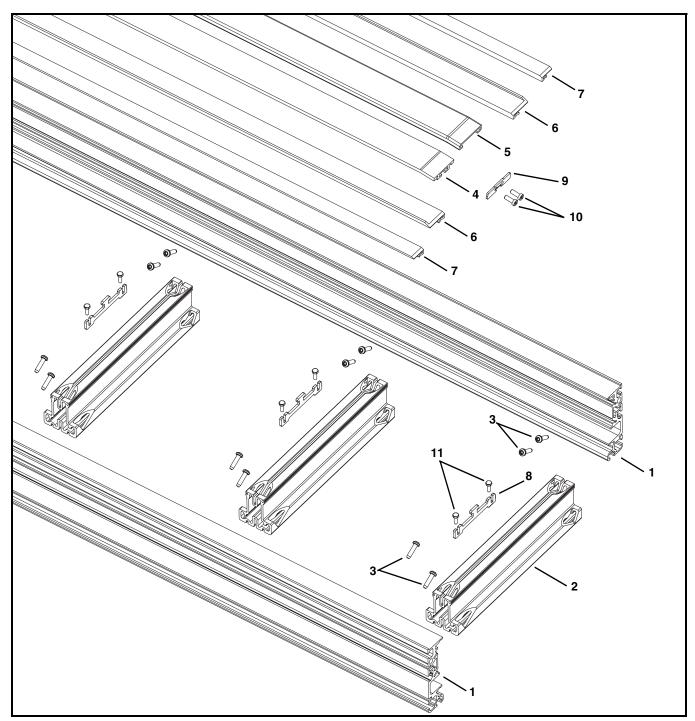
### Nose Bar Idler End Components



Item	Part Number	Description
1	300150M	Drop-In Tee Bar
2	352013- <u>WW</u>	Roller Assembly
3	352125	Spacer
4	352126- <u>WW</u>	Axle Shaft
5	352128	Wear Guide
6	352146	Support Plate
7	352149	Cover Plate
8	352151- <u>WW</u>	Crossmember
9	807-1136	Washer

Item	Part Number	Description
10	910-203	Hex Nut
11	913-409	Pin
12	920693M	Socket Head Screw, M6-1.00 x 16 mm
13	920893M	Low Head Cap Screw, M8-1.25 x 25 mm
14	52NBT-WW	Nose Bar Idler Kit (Includes Items
		2,3,4,9,10 and 13)
<u>WW</u> =	<u>WW</u> = Conveyor width reference: 08 – 60 in 02 increments	

## Frame Assembly

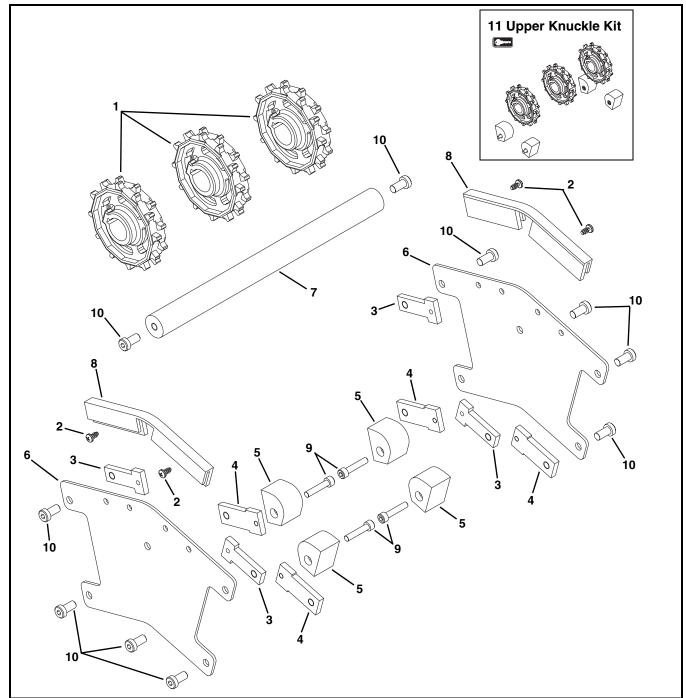


Item	Part Number	Description
1	352100- <u>LLLLL</u>	Side Rail
2	352101- <u>WW</u>	Cross Support Rail
3	352108	Pan Screw, M580 x 20 mm
4	352102- <u>LLLLL</u>	Center Bed Rail
5	352103- <u>LLLLL</u>	Center Wearstrip
6	352104- <u>LLLLL</u>	Top Wearstrip
7	352105- <u>LLLLL</u>	Return Wearstrip
8	352106	Center Bed Rail Hold Down Clip

Item	Part Number	Description	
9	352107	Center Wearstrip Stop Plate	
10	901-135	Button Head Cap Screw, 1/4- 20 x 0.88"	
11	960498M	Hex Head Cap Screw, M470 x 12 mm	
<u>WW</u> =	WW = Conveyor width reference: 08 - 60 in 02 increments		
LLLLL	LLLLL = Length in inches with 2 decimal places.		
Length	Length Example: Length = 95.25" LLLLL = 09525		

5200 Series End Drive Conveyors

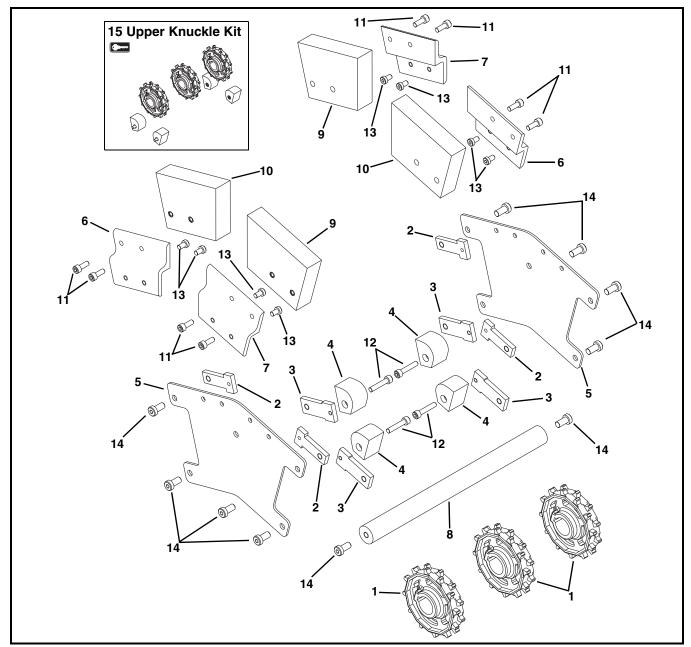
### Upper Knuckle - Low Side



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	352336- <u>WW</u>	Shaft
8	352341- <u>AA</u>	Lowside 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> =	<u>WW</u> = Conveyor width reference: 08 – 24 in 02 increments		
<u>AA</u> = Angle 05, 10, 15, 30, 45 and 60			

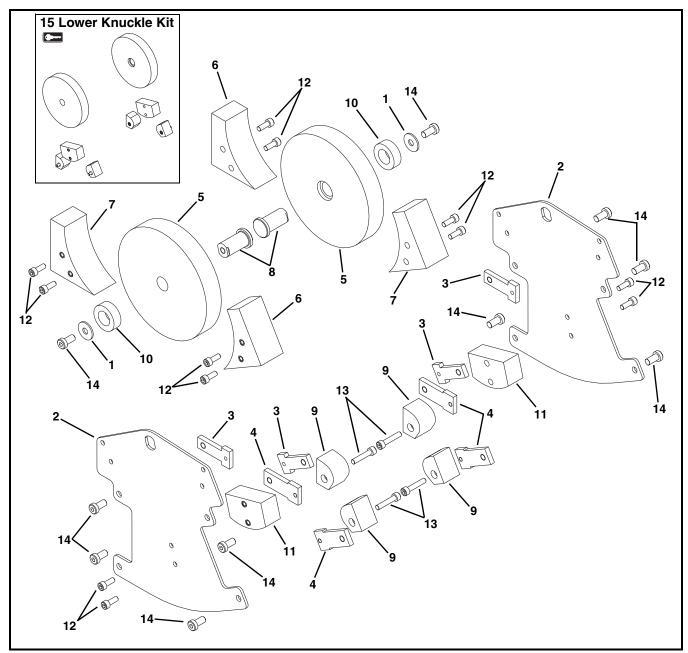
# Upper Knuckle - High Side



Item	Part Number	Description
1	807-1754	Sprocket
2	352322	Top Stop Nut
3	352323	Bottom Stop Nut
4	352328	Belt Guide
5	325329- <u>AA</u>	Side Plate
6	352332- <u>AA</u>	High Side Mounting Guide Left Hand
7	352333- <u>AA</u>	High Side Mounting Guide Right Hand
8	352336- <u>WW</u>	Shaft
9	352343- <u>AA</u> -L	High Side Guide Left Hand
10	352343- <u>AA</u> -R	High Side Guide Right Hand

Item	Part Number	Description		
11	920616M	Socket Head Screw, M6-1.00 x 16 mm		
12	920630M	Socket Head Screw, M6-1.00 x 30 mm		
13	920691M	Low Head Cap Screw, M6-1.00 x 10 mm		
14	920893M	Low Head Cap Screw, M8-1.23 x 16 mm		
15	52NO- <u>WW</u>	Upper Knuckle Kit (Includes Items 1,4 and 12)		
<u>WW</u> =	WW = Conveyor width reference: 08 – 24 in 02 increments			
$\underline{AA} = A$	<u>AA</u> = Angle 05, 10, 15, 30, 45 and 60			

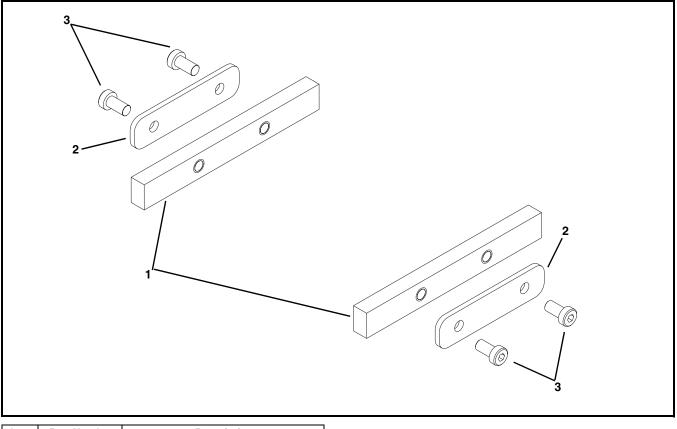
### Lower Knuckle



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

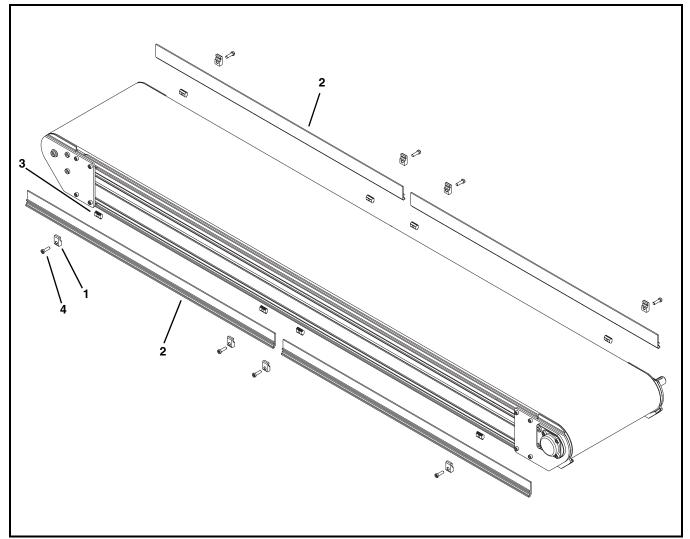
Item	Part Number	Description
10	352337	Hold Down Spacer
11	352340	Return Block Guide
12	920616M	Socket Head Screw, M6-1.00 x 16 mm
13	920630M	Socket Head Screw, M6-1.00 x 30 mm
14	920893M	Low Head Cap Screw, M8-1.23 x 16 mm
15	52HI	Lower Knuckle Kit (Includes Items 5, 9, 11 and 13)
$\underline{AA} = A$	Angle 05, 10, 15,	30, 45 and 60

# **Connecting Assembly**



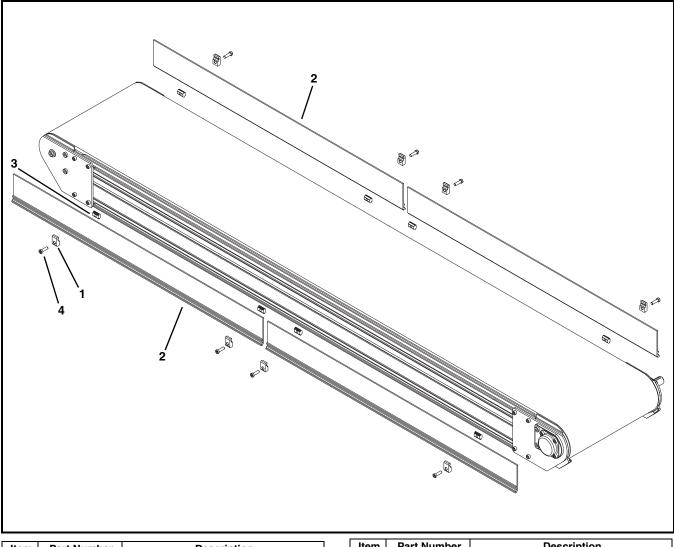
Item	Part Number	Description
1	352315	Bar Frame Connector
2	240859	Plate Frame Connector
3	920692M	Low Head Cap Screw, M6-1.00 x 12 mm

# 1" (25 mm) High Sides



Item	Part Number	Description	Item	Part Number	Description
1	200121	Guide Retaining Clip	4	920694M	Low Head Cap Screw, M6-1.00 x 20 mm
2	380500- <u>LLLLL</u>	1" Guides	LLLLL	_ = Length in inche	s with 2 decimal places.
3	639971M	Single Drop -In Tee Bar	Lengt	n Example: Length	n = 95.25" <u>LLLLL</u> = 09525

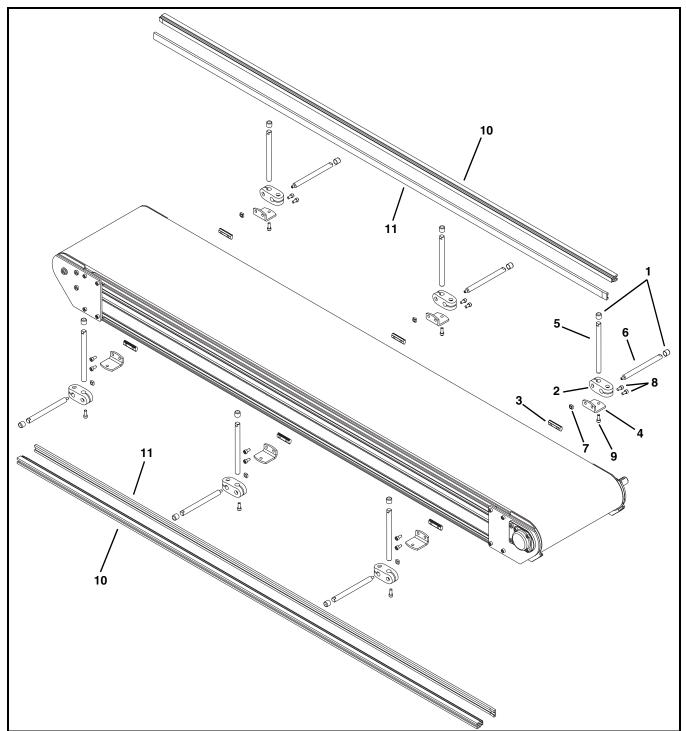
# 3" (76 mm) High Sides



Item	Part Number	Description
1	200121	Guide Retaining Clip
2	380400- <u>LLLLL</u>	3" Guides
3	639971M	Single Drop -In Tee Bar

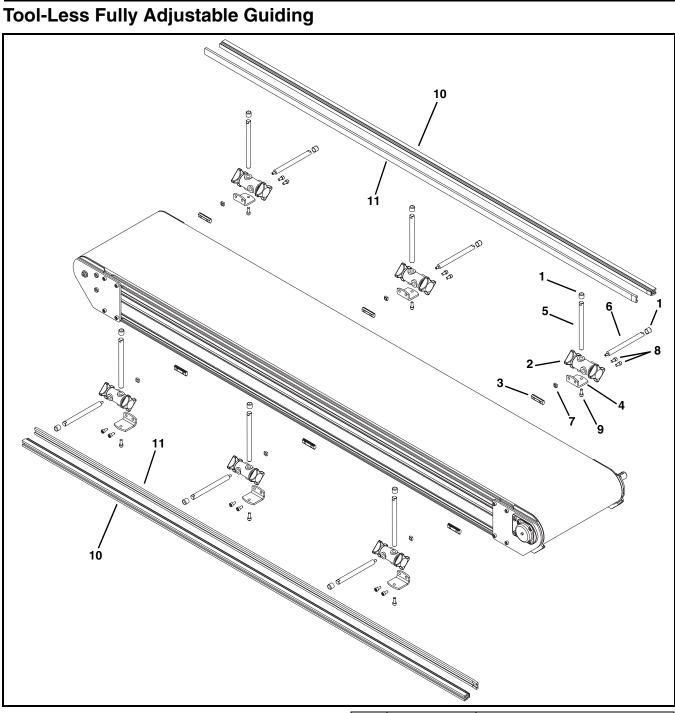
Γ	Item Part Number		Description		
Γ	4	920694M	Low Head Cap Screw, M6-1.00 x 20 mm		
Γ	LLLLL = Length in inches with 2 decimal places.				
	Length Example: Length = 95.25" LLLLL = 09525				

# Fully Adjustable Guiding



Item	Part Number	Description	Item	Part Number	Description
1	807-948	Shaft Cap	8	920612M	Socket Head Screw, M6-1.00 x 12 m
2	807-652	Cross Block	9	920616M	Socket Head Screw, M6-1.00 x 16 m
3	200830M	Drop-In Tee Bar	10	460063- <u>LLLLL</u>	Aluminum Profile Guide
4	202004M	Mounting Bracket	11	614068P- <u>LLLLL</u>	Extruded Guide
5	202027M	Vertical Mounting Guide Shaft	LLLL	<u>_</u> = Length in inches	s with 2 decimal places.
6	202028M	Horizontal Mounting Guide Shaft	Lengt	h Example: Length	= 95.25" <u>LLLLL</u> = 09525
7	674175MP	Square Nut, M6-1.00			

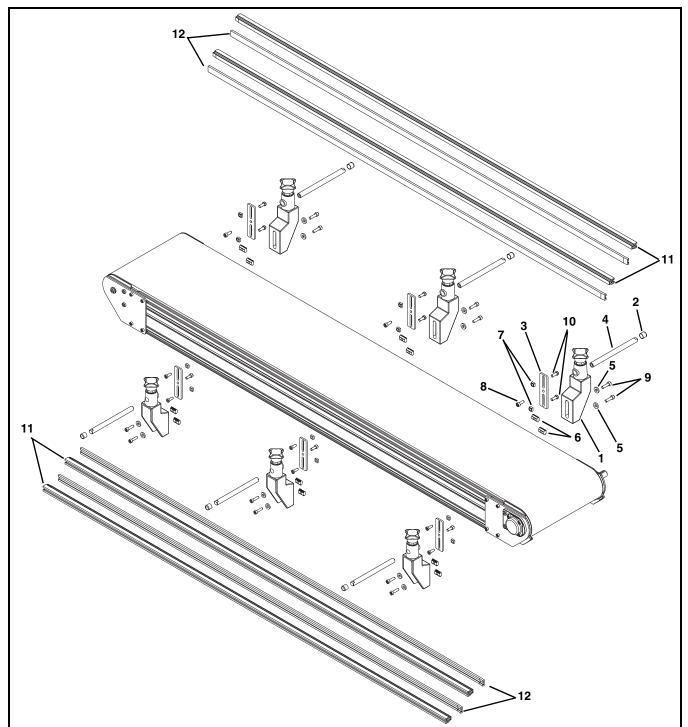
#### 5200 Series End Drive Conveyors



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

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	460063- <u>LLLLL</u>	Aluminum Profile Guide		
11	614068P- <u>LLLLL</u>	Extruded Guide		
LLLLL	LLLLL = Length in inches with 2 decimal places.			
Length	Length Example: Length = 95.25" LLLLL = 09525			

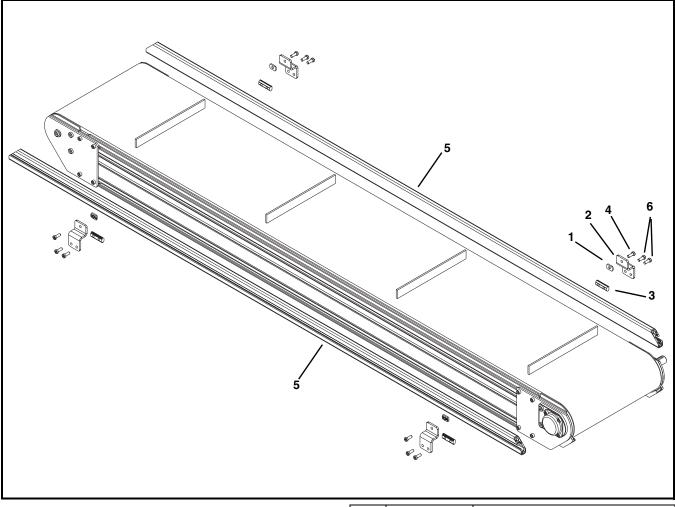
# Twin Rail Adjustable Guiding



Item	Part Number	Description	Item	Part Number	Description
1	807-1708	Swivel Guide Rail Bracket	8	920616M	Socket Head Screw, M6-1.00 x 16 m
2	807-948	Shaft Cap	9	920622M	Socket Head Screw, M6-1.00 x 22 m
3	352304	Guide Mounting Bracket	10	920693M	Low Head Cap Screw, M6-1.00 x 16
4	202027M	Mounting Shaft	11	460063- <u>LLLLL</u>	Aluminum Profile Guide
5	605279P	Washer	12	614068P- <u>LLLLL</u>	Extruded Guide
6	639971M	Drop-In Tee Bar	LLLL	Length in inches	s with 2 decimal places.
7	674175MP	Square Nut, M6-1.00	Lengt	h Example: Length	= 95.25" <u>LLLLL</u> = 09525

#### 5200 Series End Drive Conveyors

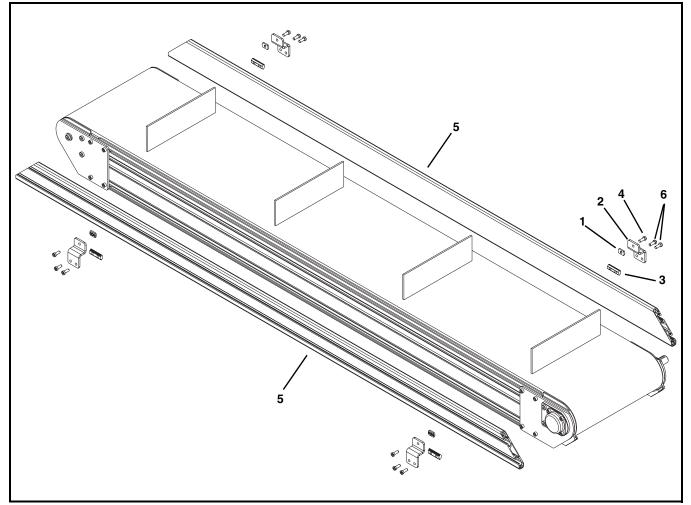
# 1" (25 mm) Cleated Guiding



Item	Part Number	Description
1	807-1075	Weld Nut, M8-1.25
2	352300	Cleated Guiding Mounting Bracket
3	643874M	Drop -In Tee Bar
4	920893M	Low Head Cap Screw, M6-1.00 x 16 mm

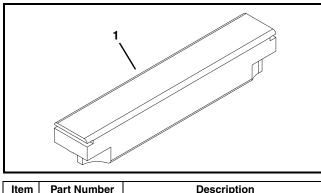
Item	Part Number	Description
5	352301- <u>LLLLL</u>	1" (25mm) Cleated Guide
6	920616M	Socket Head Cap Screw, M6-1.00 x 16 mm
LLLLL = Length in inches with 2 decimal places.		
Length Example: Guiding Length = 95.25" LLLLL = 09525		

# 3" (76 mm) Cleated Guiding



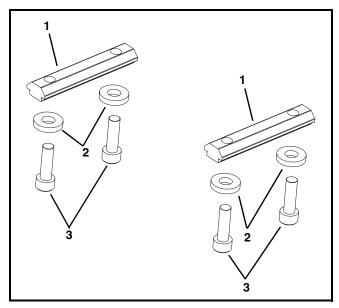
Item	Part Number	Description	Item	Part Number	Description
1	807-1075	Weld Nut, M8-1.25	5	352302- <u>LLLLL</u>	3" (76 mm) Cleated Guide
2	352300	Cleated Guiding Mounting Bracket	6	920616M	Socket Head Cap Screw,
3	643874M	Drop -In Tee Bar			M6-1.00 x 16 mm
4	920893M	Low Head Cap Screw, M6-1.00 x 16 mm	LLLL	LLLLL = Length in inches with 2 decimal places.	
		· · · · · · · · · · · · · · · · · · ·	Lena	th Example: Guidin	a Lenath = 95.25" LLLLL = 09525

### **Flat Belt Returns**



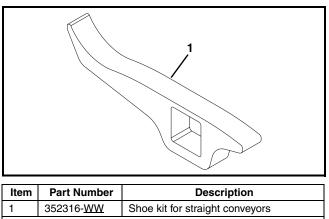
Item	Part Number	Description	
1	352120- <u>WW</u>	Returns	
WW = Conveyor width ref: 26 - 60 in 02 increments			

### **Stand Mount Kit**



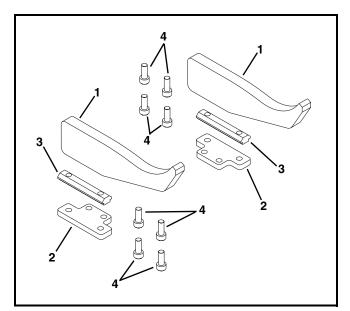
Item	Part Number	Description
1	300150M	Drop-In Tee Bar
2	605279P	Washer
3	920620M	Socket Head Screw, M6-1.00 x 20 mm

### **High Speed Shoe Kit**



WW = Conveyor width ref: 26 - 60 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

### **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 52BB-WW

 $\underline{BB} = Chain reference number$ 

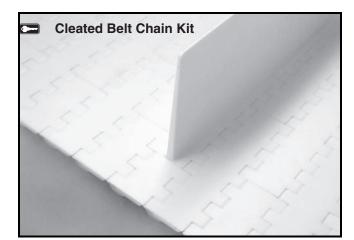
 $\underline{WW}$  = Conveyor width ref: 08-60 in 02 increments

### Flat Belt Chain Repair Kit



Item	Part Number	Description	
1	52 <u>BB</u> - <u>WW</u>	Flat Belt Chain Repair Kit (Includes 1 ft	
		(305 mm) of flat belt chain and assembly pins)	
<u>BB</u> = 0	BB = Chain Reference number		
<u>WW</u> =	<u>WW</u> = Conveyor width ref: 08 - 60 in 02 increments		

### **Cleated Belt Chain Repair Kit**



Item	Part Number	Description	
1	52 <u>BB-WW-SS</u>	Cleated Belt Chain Repair Kit (Includes cleats on 1 ft (305mm) of belt chain and assembly pins)	
<u>BB</u> = 0	BB = Chain Reference number		
WW = Conveyor width ref: 08 - 60 in 02 increments			
<u>SS</u> = Cleat Spacing			

# 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.