

5200 Series Nose Bar Drive Conveyors

Installation, Maintenance and Parts Manual



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Table of Contents

Introduction
Warnings – General Safety
Product Description
Specifications
Flat 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)
Conveyor Supports 6
Specifications
Installation
Required Tools 7
Recommended Installation Sequence
Conveyors Longer than 12 ft (3658 mm) 7
Connecting Components 7
LPZ Conveyors
Knuckles
All Conveyors
Stand Installation
Belt Installation
Drive Package Installation 10
Preventive Maintenance and Adjustment 11
Required Tools 11
Checklist 11
Lubrication 11
Maintaining the Conveyor Belt 11
Troubleshooting 11
Conveyor Belt Replacement 11
Replacing a Section of Belt 11
Replacing the Entire Belt 12
Conveyor Belt Tensioning 12
Wear Strips 12
Removal 12
Installation 13

A - Nose Bar Drive Spindle Removal 14 B - Idler Spindle Removal 16 C - Nose Bar Idler Spindle Removal 17 Spindle Replacement 19 Drive Spindle 19 Idler Spindle 19 Nose Bar Idler Spindle 19 Nose Bar Idler Spindle 19 Nose Bar Idler Spindle 19 Bearing Replacement 19 Bearing Replacement 19 Removal 19 Replacement 19 Maintenance of Knuckles 20 Lower Knuckle 20 Service Parts 21 Drive End Components 21 Idler End Components 23 Nose Bar Idler End Components 24 Frame Assembly 25 Upper Knuckle - Low Side 26 Upper Knuckle - Low Side 27 Lower Knuckle 28 Connecting Assembly 29 1" (25 mm) High Sides 30 3" (76 mm) High Sides 31 Fully Adjustable Guiding 32 Tool-Less Fully Adjustable Guiding	Spindle Removal	14
C - Nose Bar Idler Spindle Removal17Spindle Replacement19Drive Spindle19Idler Spindle19Nose Bar Idler Spindle19Bearing Replacement19Drive Bearing Removal and Replacement19Removal19Replacement19Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle26Upper Knuckle27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	A - Nose Bar Drive Spindle Removal	14
Spindle Replacement19Drive Spindle19Idler Spindle19Nose Bar Idler Spindle19Bearing Replacement19Drive Bearing Removal and Replacement19Removal19Replacement19Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components21Idler End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle26Upper Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	B - Idler Spindle Removal	16
Drive Spindle19Idler Spindle19Nose Bar Idler Spindle19Bearing Replacement19Drive Bearing Removal and Replacement19Removal19Replacement19Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	C - Nose Bar Idler Spindle Removal	17
Idler Spindle19Nose Bar Idler Spindle19Bearing Replacement19Drive Bearing Removal and Replacement19Removal19Replacement19Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle - High Side303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit36Flat Belt Chain Repair Kit36	Spindle Replacement	19
Nose Bar Idler Spindle19Bearing Replacement19Drive Bearing Removal and Replacement19Removal19Replacement19Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit36Flat Belt Chain Repair Kit36		
Bearing Replacement19Drive Bearing Removal and Replacement19Removal19Replacement19Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components21Idler End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35LPZ High Speed Shoe Kit36Flat Belt Chain Repair Kit36	Idler Spindle	19
Drive Bearing Removal and Replacement19Removal19Replacement19Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle - High Side291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35LPZ High Speed Shoe Kit36Flat Belt Chain Repair Kit36	Nose Bar Idler Spindle	19
Removal19Replacement19Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components21Idler End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36		
Replacement19Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components21Idler End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36		
Maintenance of Knuckles20Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - Low Side27Lower Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35LPZ High Speed Shoe Kit36Flat Belt Chain Repair Kit36	Removal	19
Lower Knuckle20Upper Knuckle20Service Parts21Drive End Components21Idler End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Replacement	19
Upper Knuckle20Service Parts21Drive End Components21Idler End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36		
Service Parts.21Drive End Components21Idler End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36		
Drive End Components21Idler End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Upper Knuckle	20
Idler End Components23Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36		
Nose Bar Idler End Components24Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Drive End Components	21
Frame Assembly25Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35UPZ High Speed Shoe Kit36Flat Belt Chain Repair Kit36	Idler End Components	23
Upper Knuckle - Low Side26Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35UPZ High Speed Shoe Kit36Flat Belt Chain Repair Kit36		
Upper Knuckle - High Side27Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit36Flat Belt Chain Repair Kit36	Frame Assembly	25
Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Upper Knuckle - Low Side	26
Lower Knuckle28Connecting Assembly291" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Upper Knuckle - High Side	27
1" (25 mm) High Sides303" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Lower Knuckle	28
3" (76 mm) High Sides31Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Connecting Assembly	29
Fully Adjustable Guiding32Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	1" (25 mm) High Sides	30
Tool-Less Fully Adjustable Guiding33Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36		
Twin Rail Adjustable Guiding34Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Fully Adjustable Guiding	32
Flat Belt Returns35Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Tool-Less Fully Adjustable Guiding	33
Stand Mount Kit35High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36		
High Speed Shoe Kit35LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36	Flat Belt Returns	35
LPZ High Speed Shoe Kit35Ordering a Replacement Chain36Flat Belt Chain Repair Kit36		
Ordering a Replacement Chain		
Flat Belt Chain Repair Kit		
	Ordering a Replacement Chain	36
	Notes	
Return Policy	Return Policy	38

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.

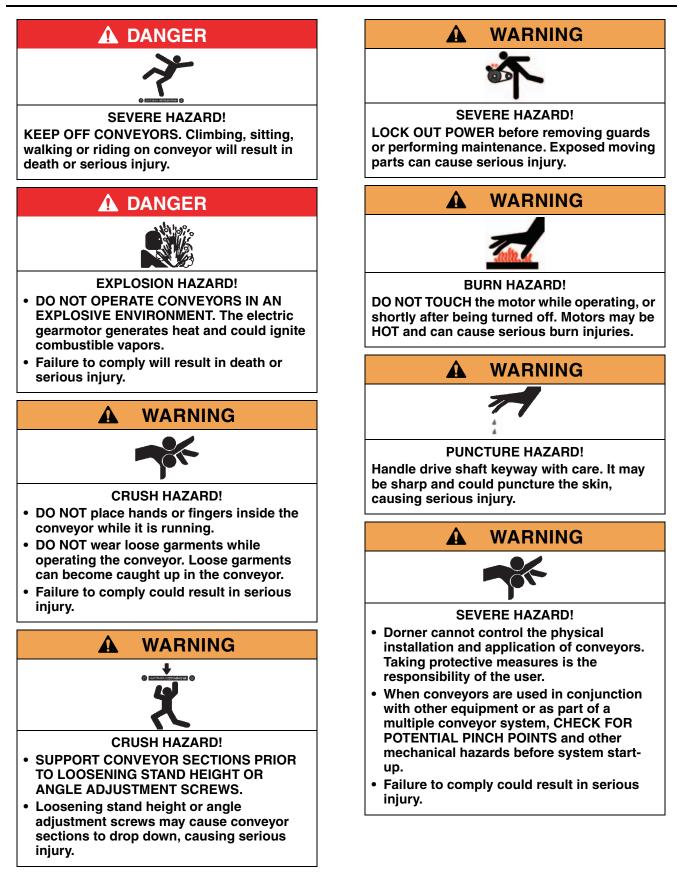
The Dorner Limited Warranty applies.

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.

Ту	Typical Components		
1	Conveyor		
2	Gearmotor		
3	Belt (Flat Belt Shown)		
4	Support Stands		
5	Drive End		
6	Idler End		

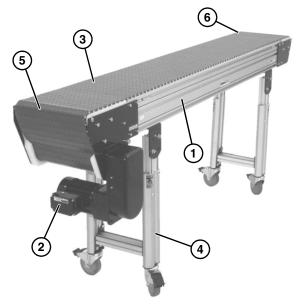
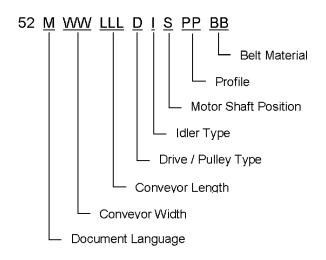


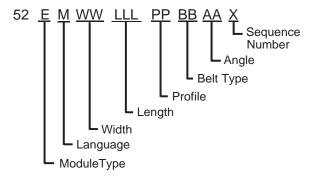
Figure 1

Specifications

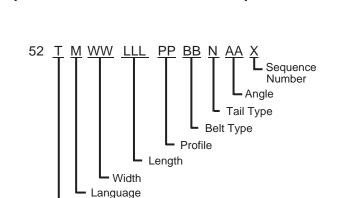
Flat Belt Straight 5200 Series Conveyor



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



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



Flat Belt LPZ 5200 Series Conveyor

(Infeed Section to Knuckle)

ModuleType

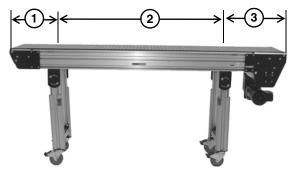
52 T M WW LLL PP BB N D AA Sequence Number Angle **Drive Position** Tail Type Belt Type Profile Length Width Language ModuleType

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.





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 ² (97 kg/ m ²) 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 (<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

CAUTION

Conveyor MUST be mounted straight, flat and level within confines of conveyor. Use a level (Figure 3, item 1) during setup.

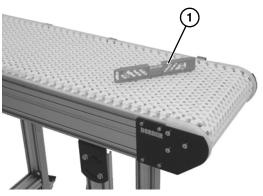


Figure 3

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 7 or "All Conveyors" on page 9.
- 2. Attach the stands. Refer to "Stand Installation" on page 9.
- 3. Install the gearmotor. Refer to "Drive Package Installation" on page 10.

Conveyors 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

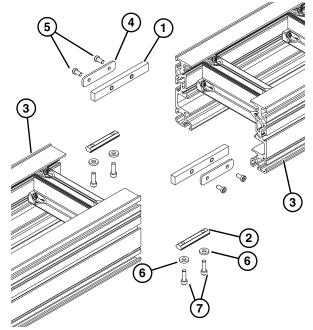


Figure 4

- 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.)

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.

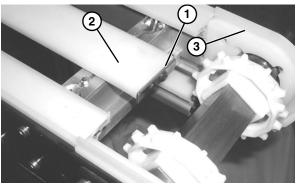


Figure 5

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).

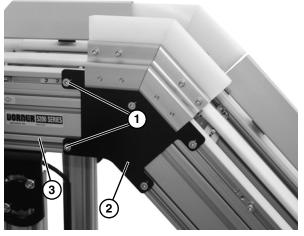
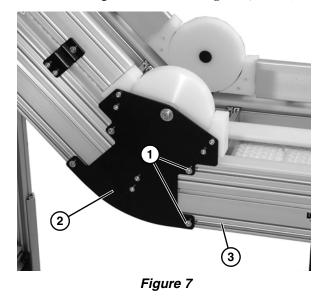


Figure 6

 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).

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)

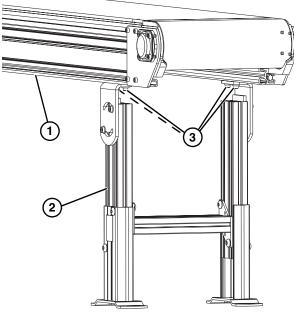
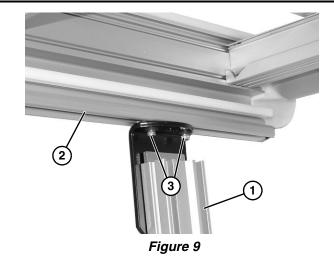


Figure 8

- 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

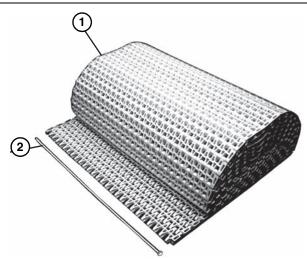


Figure 10

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

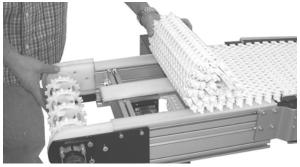


Figure 11

2. Wrap belt around idler tail.

3. Install belt around lower frame section and above lower wear strips (Figure 12, item 1).

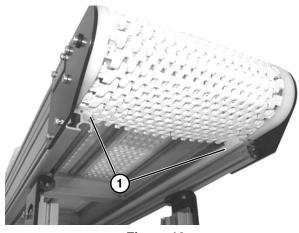


Figure 12

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.

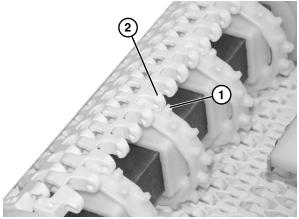


Figure 13

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

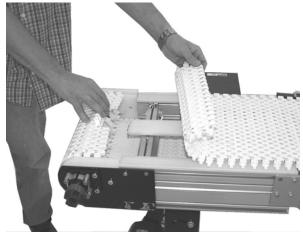
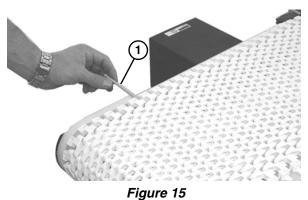


Figure 14

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).

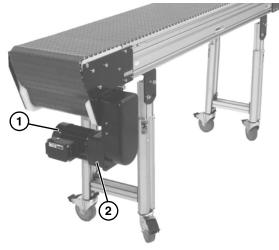


Figure 16

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 21 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 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.

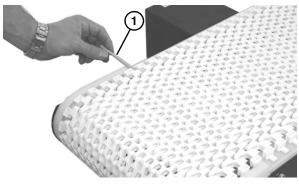


Figure 17

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.

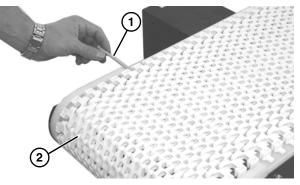


Figure 18

- 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

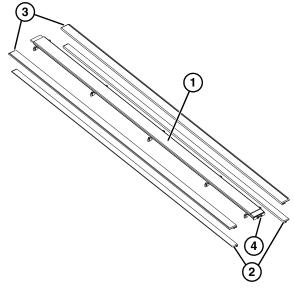
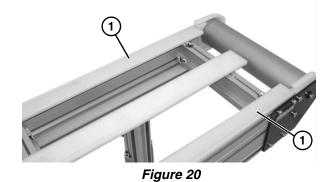


Figure 19

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.

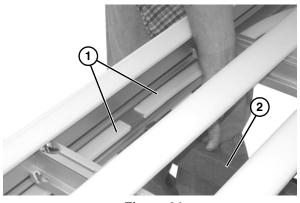


Figure 21

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

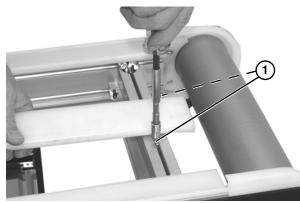
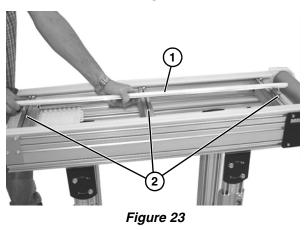


Figure 22

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).

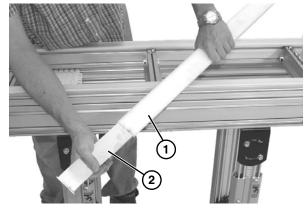


Figure 24

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.

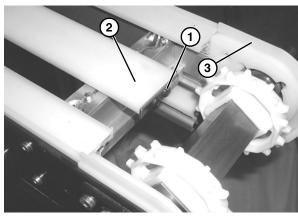


Figure 25

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:

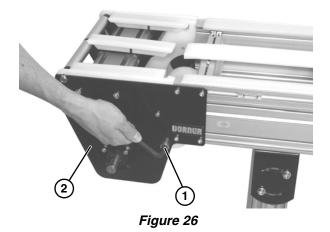
- A Nose Bar Drive Spindle Removal
- **B** Idler Spindle Removal
- C Nose Bar Idler Spindle Removal

A – Nose Bar Drive Spindle Removal



 Remove the gearmotor. For detailed instructions, refer to the appropriate drive package manual.

Remove socket head bolt (Figure 26, item 1) on each side of drive tail assembly (Figure 26, item 2).



3. Lower roller assembly (Figure 27, item 1) from drive tail assembly (Figure 27, item 2).

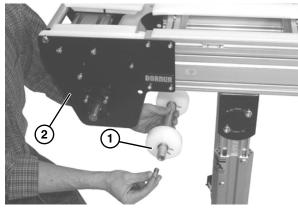


Figure 27

4. Loosen the four socket head screws (**Figure 28, item 1**). Repeat on opposite side.

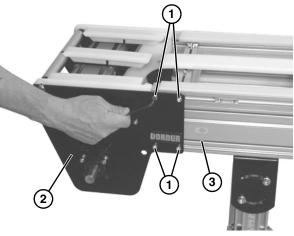
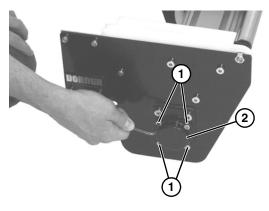


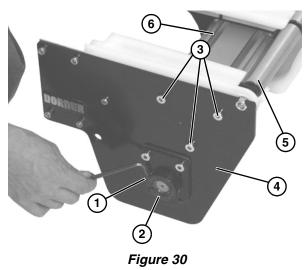
Figure 28

- 5. Remove the drive tail assembly (**Figure 28, item 2**) from the frame (**Figure 28, item 3**).
- 6. On the non-drive side, remove four socket head screws (Figure 29, item 1) and cover (Figure 29, item 2).





7. Loosen the bearing collar set screw (Figure 30, item 1) and remove bearing collar (Figure 30, item 2).



- Remove three socket head screws (Figure 30, item 3), and remove plate (Figure 30, item 4) from drive spindle (Figure 30, item 5) and crossmember (Figure 30, item 6).
- 9. Remove retaining clip (**Figure 31, item 1**) and flanged puck (**Figure 31, item 2**) from drive spindle.

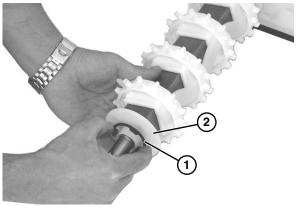


Figure 31

10. Slide entire sprocket assembly slightly outward, and remove the first sprocket (**Figure 32, item 1**) off the drive spindle and alignment bar (**Figure 32, item 2**).

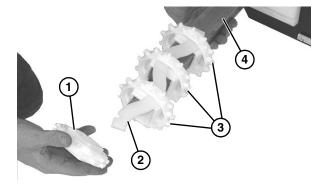


Figure 32

- 11. Remove remaining sprockets (**Figure 32, item 3**) off the alignment bar as you slide entire assembly off the drive spindle (**Figure 32, item 4**).
- To assemble sprockets onto drive spindle, slide one sprocket (Figure 33, item 1) onto alignment bar (Figure 33, item 2) and slide assembly onto drive spindle (Figure 33, item 3).

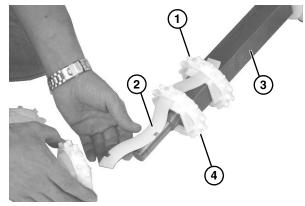


Figure 33

- 13. Install second sprocket (**Figure 33, item 4**) and subsequent sprockets one by one, while sliding entire assembly onto alignment bar and spindle.
- 14. Check drive terminal assembly (Figure 34, item 1) for wear. If worn, remove two low head cap screws (Figure 34, item 2) and low head cap screw (Figure 34, item 3) and replace.

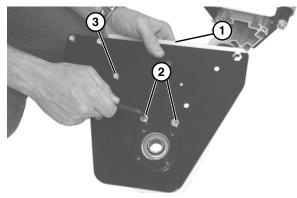


Figure 34

NOTE

When reinstalling the drive spindle tail assembly, the terminal assembly (Figure 35, item 1) should mate flush with the conveyor frame (Figure 35, item 2).

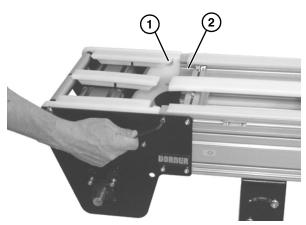


Figure 35

B – Idler Spindle Removal

- 1. Be sure the conveyor is supported.
- 2. On one side of conveyor, loosen the four socket head screws (**Figure 36, item 1**). Repeat on opposite side.

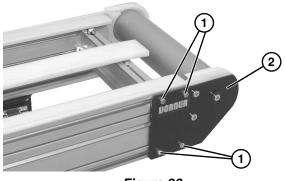
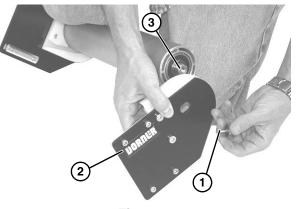


Figure 36

3. Remove idler tail assembly (Figure 36, item 2).

 Remove socket head screw (Figure 37, item 1) from plate (Figure 37, item 2) and center of spindle shaft (Figure 37, item 3). Repeat procedure on opposite side.





 Remove the spindle shaft assembly: remove the clip ring (Figure 38, item 1) and washer (Figure 38, item 2) from one side of the spindle assembly.

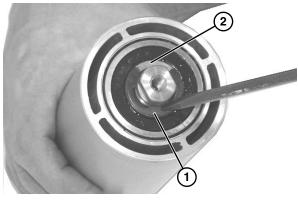


Figure 38

6. Slide the shaft assembly (Figure 39, item 1) out of the pulley (Figure 39, item 2).

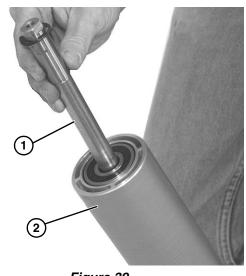


Figure 39

 Check idler terminal assembly (Figure 40, item 1) for wear. If worn, remove two low head cap screws (Figure 40, item 2) and replace.

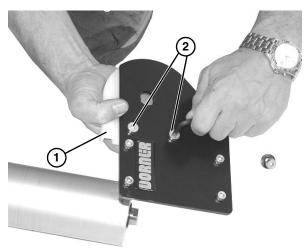


Figure 40

NOTE

When reinstalling the idler spindle tail assembly, the idler terminal assembly (Figure 41, item 1) should mate flush with the conveyor frame (Figure 41, item 2).

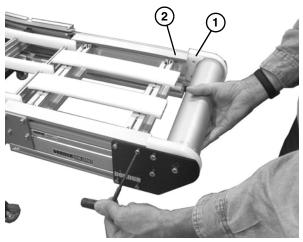


Figure 41

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 42**, **item 1**). Repeat on opposite side.

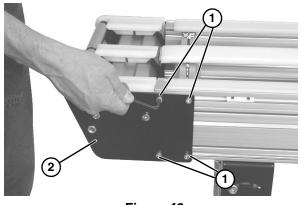


Figure 42

- 3. Remove idler tail assembly (Figure 42, item 2).
- 4. Remove two low head cap screws (**Figure 43, item 1**) from plate (**Figure 43, item 2**). Repeat procedure on opposite side.

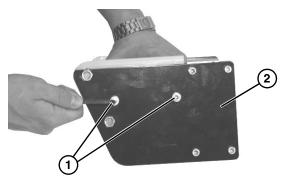
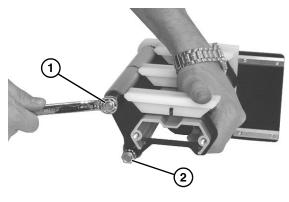


Figure 43

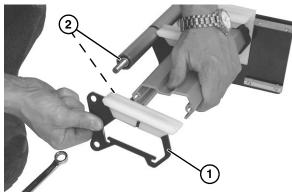
5. Remove upper nut (**Figure 44, item 1**) and spacer from end of axle shaft assembly.





6. Remove lower nut (**Figure 44, item 2**) and spacer from lower axle shaft assembly.

7. Slide the support plate (**Figure 45, item 1**) off of both axle shafts.





- 8. Remove washer (**Figure 45, item 2**) off of lower and upper axle shafts.
- 9. Remove roller assembly (Figure 46, item 1) and washer (Figure 46, item 2) from axle shaft (Figure 46, item 3).

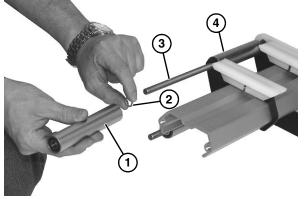


Figure 46

10. Remove remaining roller assembly components (Figure 46, item 4) on opposite side.

11. Check idler terminal assembly on each side (Figure 47, item 1) for wear. If worn, replace.

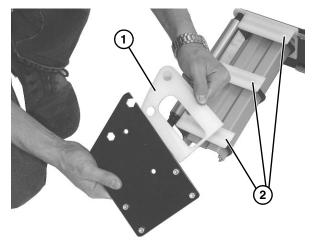


Figure 47

12. Remove and replace wear guides (**Figure 47, 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 48, item 1*) should mate flush with the conveyor frame (*Figure 48, item 2*).

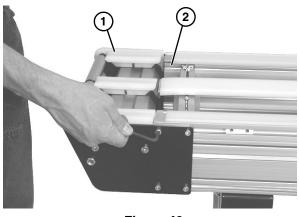


Figure 48

Spindle Replacement

Drive Spindle

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

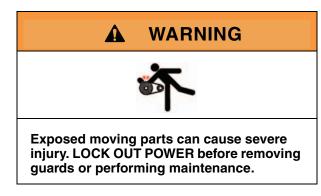
Idler Spindle

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

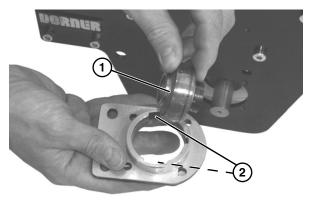


Drive Bearing Removal and Replacement



Removal

1. Turn bearing (Figure 49, item 1) to align with slots (Figure 49, item 2) in bearing housing. Then remove bearing.





Replacement

- 1. Inspect bearing housing bearing surface. If worn or damaged, replace. See "Service Parts" on page 21.
- 2. Insert bearing (Figure 50, item 1) into housing slot: Locate anti–rotation nub (Figure 50, item 2) to align with slot (Figure 50, item 3), and twist bearing into housing.

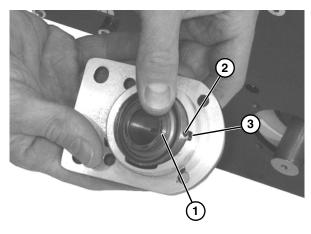


Figure 50

Maintenance of Knuckles

Lower Knuckle

 Remove cap screw (Figure 51, item 1), washer, and spacer on side of lower knuckle assembly (Figure 51, item 2), and remove hold down guide (Figure 51, item 3). Repeat on opposite side.

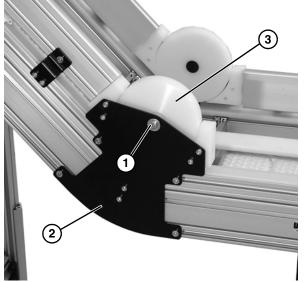


Figure 51

2. Remove two socket cap screws (Figure 52, item 1) for all four hold down guards (Figure 52, item 2) on side of lower knuckle assembly (Figure 52, item 3).

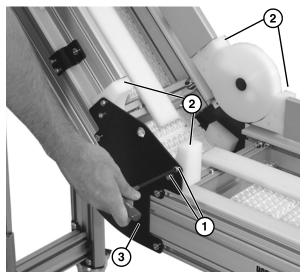


Figure 52

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

Upper Knuckle

1. Remove socket head cap screw (**Figure 53, item 1**), on each side of upper knuckle assembly, and remove shaft and sprocket assembly (**Figure 53, item 2**).

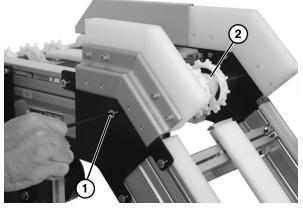


Figure 53

2. Remove three sprockets (Figure 54, item 1) off of shaft (Figure 54, item 2).

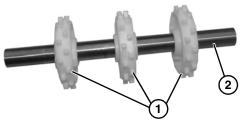


Figure 54

3. Remove socket cap screw (**Figure 55**, **item 1**) for each belt guide (**Figure 55**, **item 2**) on side of upper knuckle assembly. Repeat on opposite side.

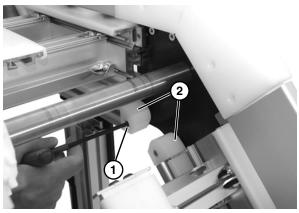


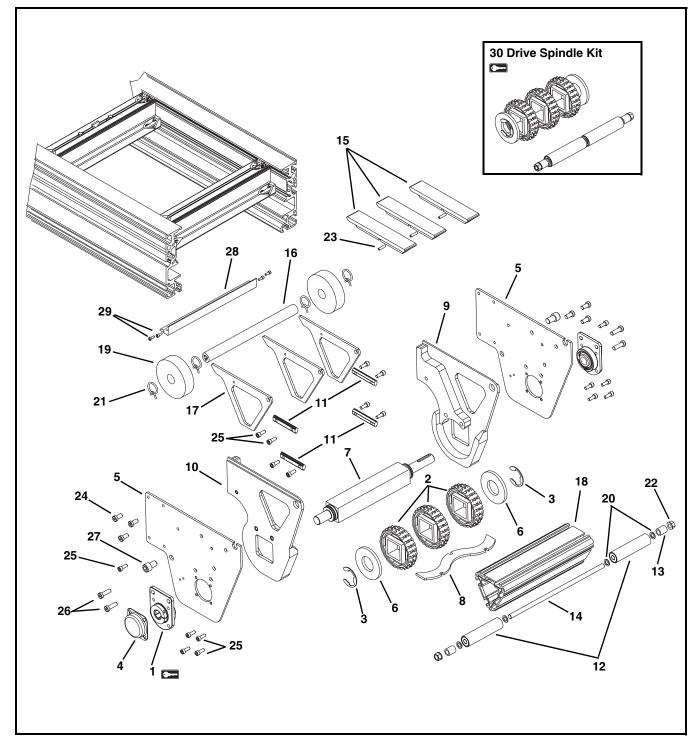
Figure 55

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

NOTE

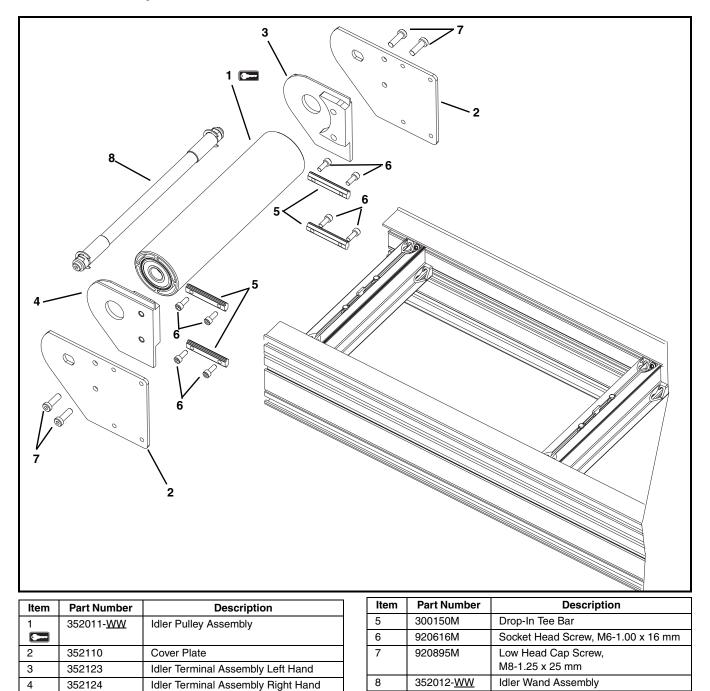
For replacement parts other than those shown in this section, contact an authorized Dorner Service Center or the factory. Key Service Parts and Kits are identified by the Performance Parts Kits logo 🖼 . Dorner recommends keeping these parts on hand.

Drive End Components



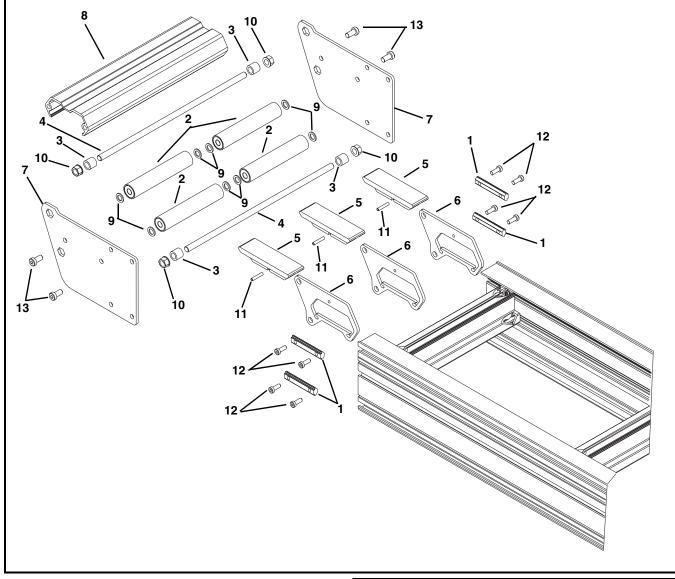
Item	Part Number	Description	
1	52BKD	Drive Bearing Kit (Qty 2)	
2	807-1443	Sprocket	
3	915-240	Retaining Ring	
4	300139	Shaft Cover	
5	352148	Tail Plate	
6	352111	Sprocket Alignment Retainer Key	
7	352112- <u>WW</u>	Drive Spindle	
8	352138- <u>WW</u>	Sprocket Alignment Bar	
9	352135	Drive Terminal Assembly Left Hand	
10	352136	Drive Terminal Assembly Right Hand	
11	300150M	Drop-In Tee Bar	
12	352013- <u>WW</u>	Nose Bar Roller Assembly	
13	352125	Spacer	
14	352126- <u>WW</u>	Axle Shaft	
15	352127	Wear Guide	
16	352145- <u>WW</u>	Roller Rod	
17	352147	Support Plate	
18	352150- <u>WW</u>	Crossmember	
19	500990	Return Disk	
20	807-1136	Washer	
21	807-1151	Clamp	
22	910-203	Hex Nut	
23	913-405	Pin	
24	920893M	Low Head Cap Screw,	
		M8-1.25 x 16 mm	
25	920616M	Socket Head Screw, M6-1.00 x 16 mm	
26	920895M	Low Head Cap Screw,	
		M8-1.25 x 25 mm	
27	921218M	Socket Head Screw,	
		M12-1.75 x 18 mm	
28	352152-WW	Pinch Guard	
29	920410M	Socket Head Screw,	
		M470 x 10 mm	
30	52NBDT- <u>WW</u>	Drive Spindle Kit (Includes Items 2, 3,	
		6, 8, 12, 13, 14, 20 and 22)	
<u>WW</u> =	WW = Conveyor width reference: 08 – 60 in 02 increments		

Idler End Components



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

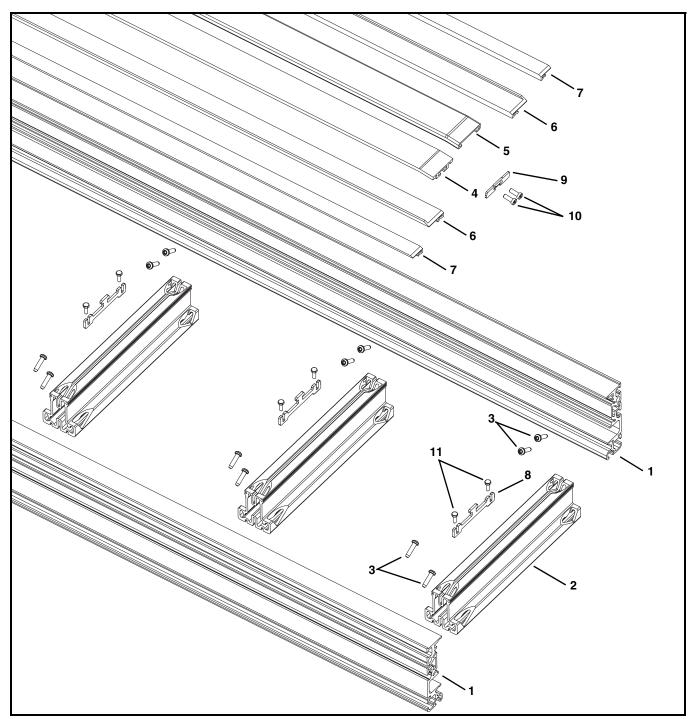
Nose Bar Idler End Components



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

Item	Part Number	Description
8	352151- <u>WW</u>	Crossmember
9	807-1136	Washer
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
<u>WW</u> =	<u>WW</u> = Conveyor width reference: 08 – 60 in 02 increments	

Frame Assembly

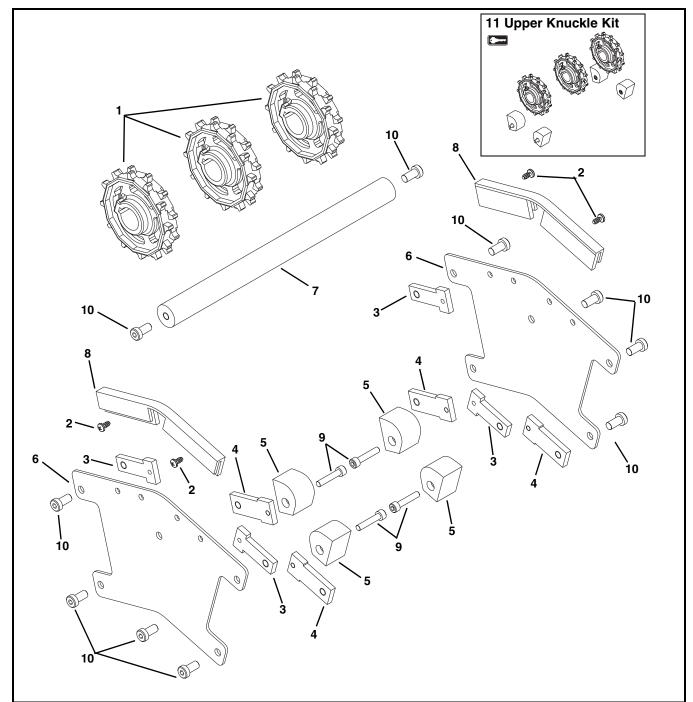


Item	Part Number	Description
1	352100- <u>LLLLL</u>	Side Rail
2	352101- <u>WW</u>	Cross Support Rail
3	352108	Pan Screw, M580 x 20 mm
4	352102- <u>LLLLL</u>	Center Bed Rail
5	352103- <u>LLLLL</u>	Center Wearstrip
6	352104- <u>LLLLL</u>	Top Wearstrip
7	352105- <u>LLLLL</u>	Return Wearstrip
8	352106	Center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

Item	Part Number	Description	
9	352107	Center Wearstrip Stop Plate	
10	901-135	Button Head Cap Screw, 1/4-20x0.88"	
11	960498M	Hex Head Cap Screw, M470 x 12 mm	
<u>WW</u> =	Conveyor width re	ference: 08 – 60 in 02 increments	
LLLLL	LLLLL = Length in inches with 2 decimal places.		
Length	n Example: Length	= 95.25" <u>LLLLL</u> = 09525	

5200 Series Nose Bar Drive Conveyors

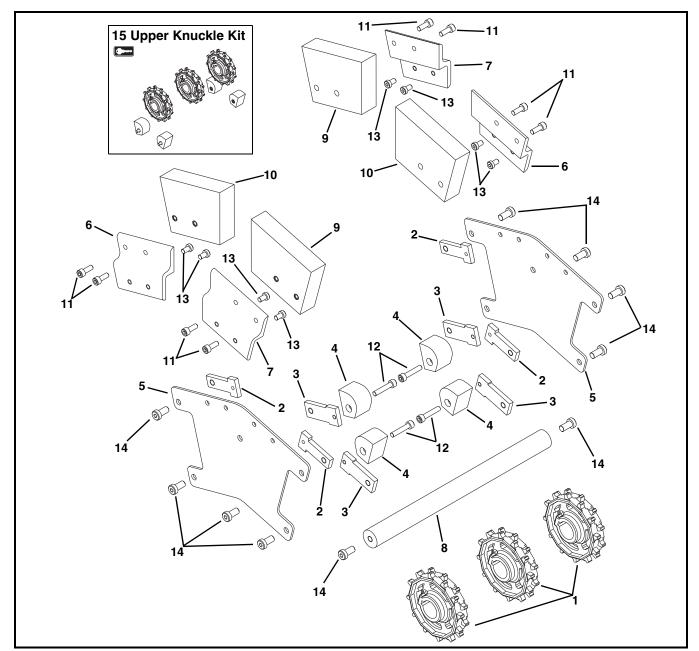
Upper Knuckle - Low Side



Item	Part Number	Description
1	807-1761	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	52NO5- <u>WW</u>	Upper Knuckle Kit (Includes Items 1, 5 and 9)
<u>WW</u> = Conveyor width reference: 08 – 24 in 02 increments		
<u>AA</u> = Angle 05, 10, 15, 30, 45 and 60		

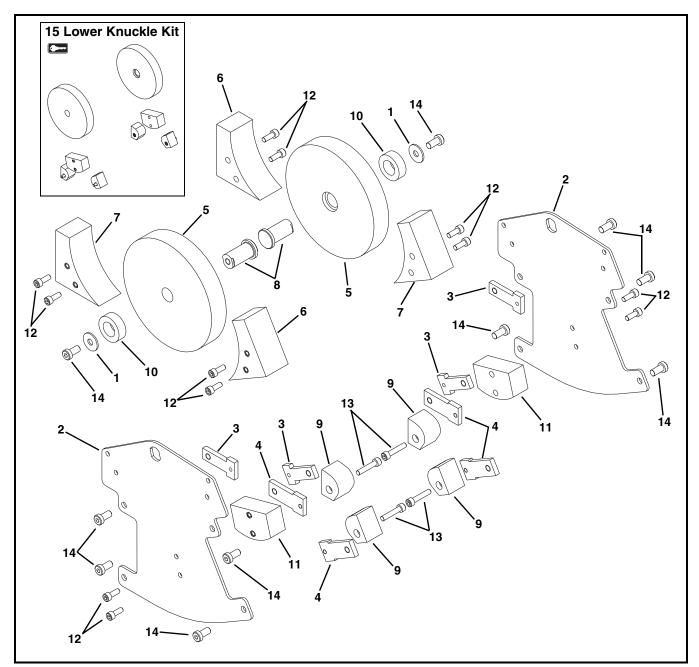
Upper Knuckle - High Side



Item	Part Number	Description
1	807-1761	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	52NO5- <u>WW</u>	Upper Knuckle Kit (Includes Items 1,4 and 12)	
WW = Conveyor width reference: 08 - 24 in 02 increments			
$\underline{AA} = A$	<u>AA</u> = Angle 05, 10, 15, 30, 45 and 60		

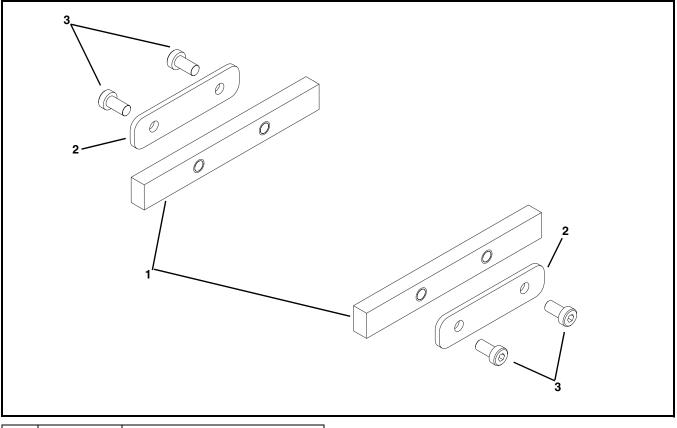
Lower Knuckle



Item	PartNumber	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

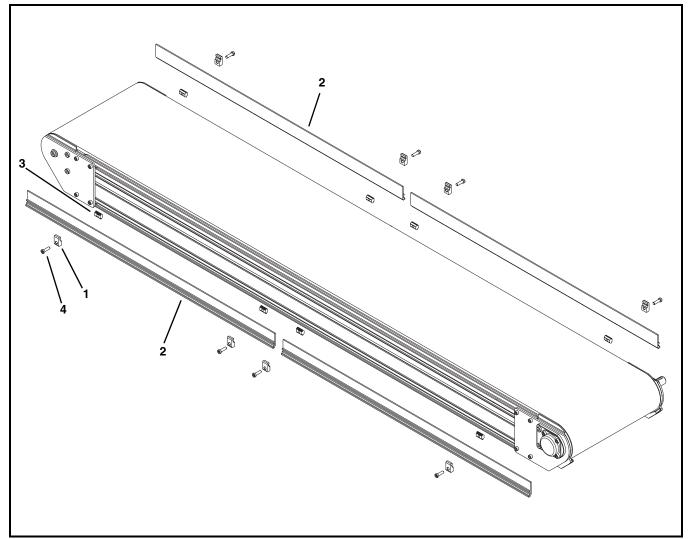
Item	Part Number	Description
10	352337	Hold Down Spacer
11	352340	Return Block Guide
12	920616M	Socket Head Screw, M6-1.00 x 16 mm
13	920630M	Socket Head Screw, M6-1.00 x 30 mm
14	920893M	Low Head Cap Screw, M8-1.23 x 16 mm
15	52HI	Lower Knuckle Kit (Includes Items 5, 9, 11 and 13)
AA = A	Angle 05, 10,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

Connecting Assembly



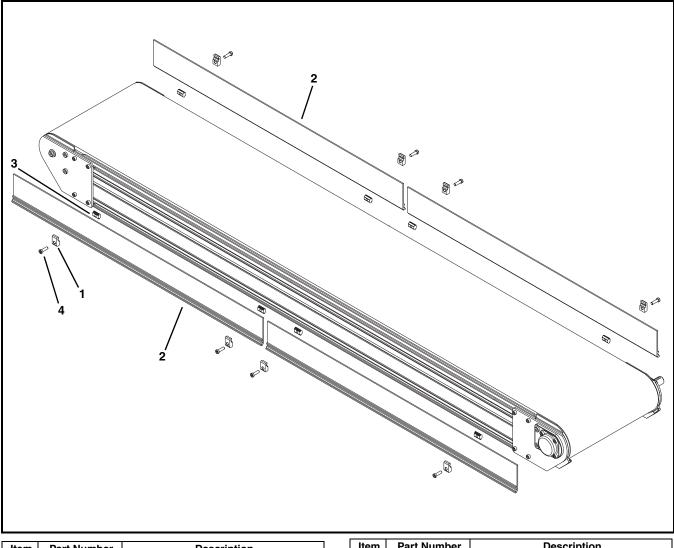
Item	Part Number	Description
1	352315	Bar Frame Connector
2	240859	Plate Frame Connector
3	920692M	Low Head Cap Screw, M6-1.00 x 12 mm

1" (25 mm) High Sides



Item	Part Number	Description	Ite	m	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	LLI	LLL	= Length in inche	s with 2 decimal places.
3	639971M	Single Drop -In Tee Bar	Lei	ngth	n Example: Length	n = 95.25" <u>LLLLL</u> = 09525

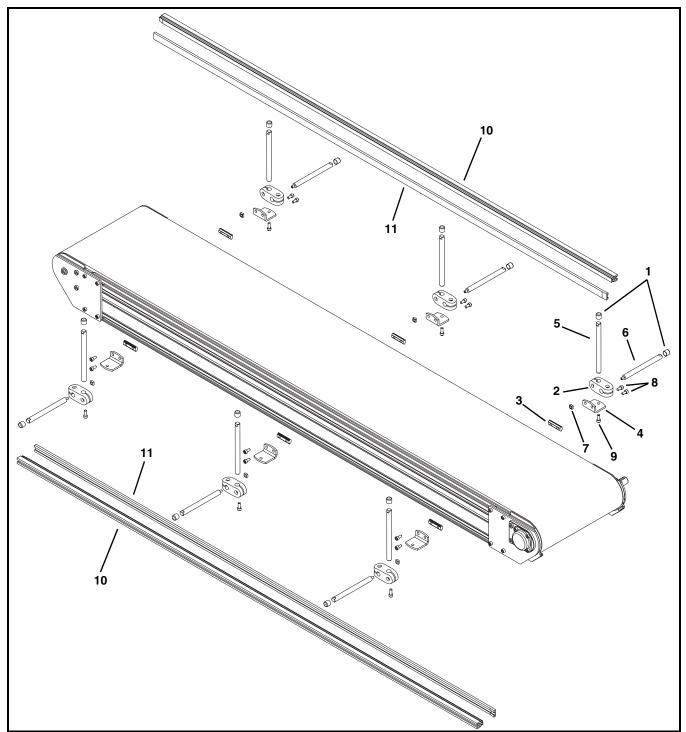
3" (76 mm) High Sides



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

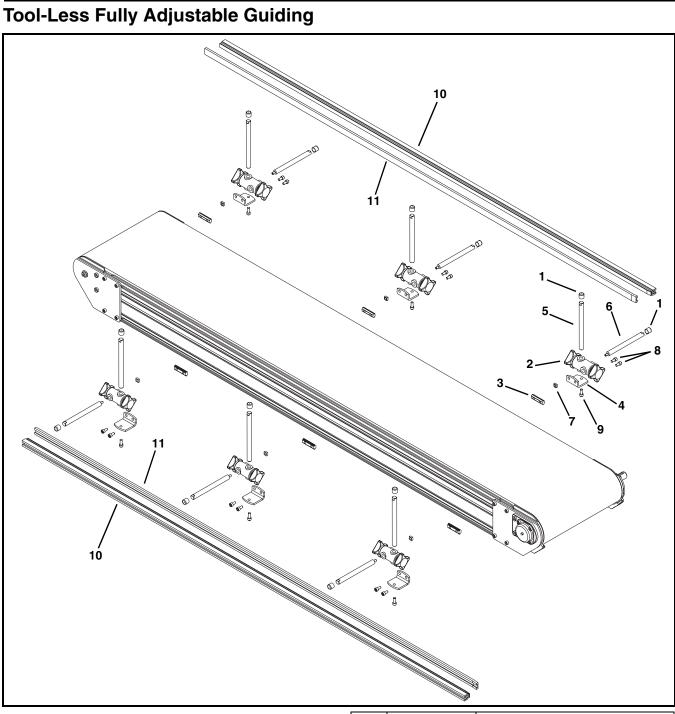
Item	Part Number	Description	
4	920694M	Low Head Cap Screw, M6-1.00 x 20 mm	
LLLLL = Length in inches with 2 decimal places.			
Lengt	Length Example: Length = 95.25" LLLLL = 09525		

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			

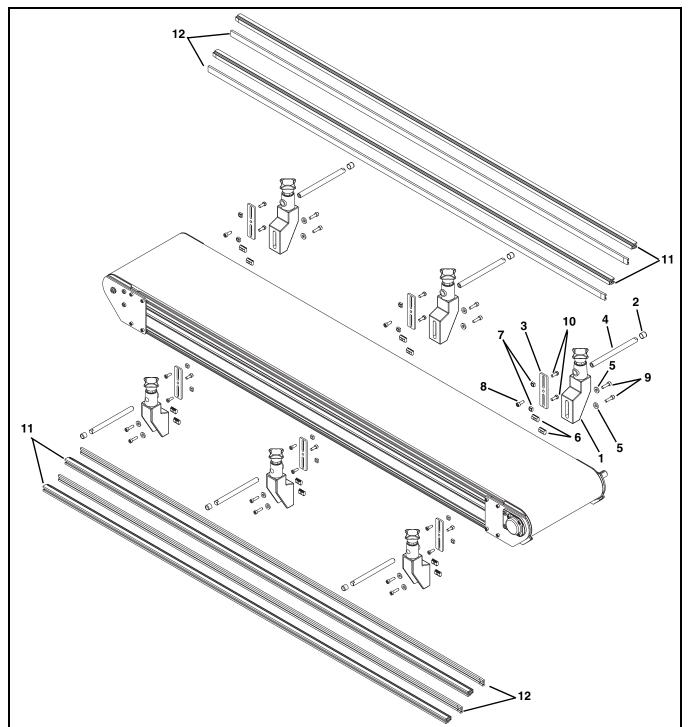
5200 Series Nose Bar Drive Conveyors



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 = Length in inches with 2 decimal places.			
Length	Length Example: Length = 95.25" LLLLL = 09525		

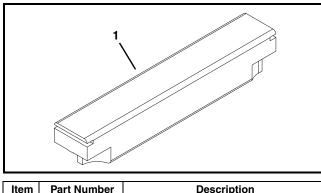
Twin Rail Adjustable Guiding



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 mr
2	807-948	Shaft Cap	9	920622M	Socket Head Screw, M6-1.00 x 22 mr
3	352304	Guide Mounting Bracket	10	920693M	Low Head Cap Screw, M6-1.00 x 16 r
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

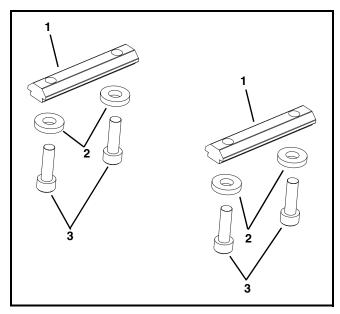
5200 Series Nose Bar Drive Conveyors

Flat Belt Returns



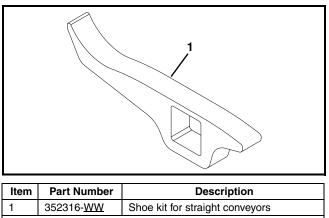
Item	Part Number	Description		
1	352120- <u>WW</u>	Returns		
WW = Conveyor width ref: 26 - 60 in 02 increments				

Stand Mount Kit



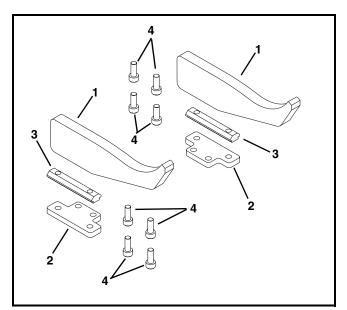
Item	Part Number	Description
1	300150M	Drop-In Tee Bar
2	605279P	Washer
3	920620M	Socket Head Screw, M6-1.00 x 20 mm

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

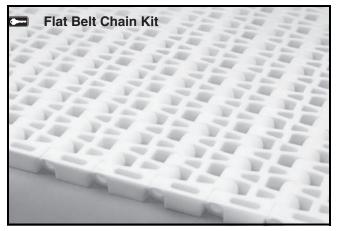
Example:

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)		
BB = Chain Reference number				
<u>WW</u> = Conveyor width ref: 08 - 60 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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