



7400 Ultimate Series Curved End Drive Conveyors

Installation, Maintenance and Parts Manual





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Introduction

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 7400 Series conveyors have patents pending.

NOTE

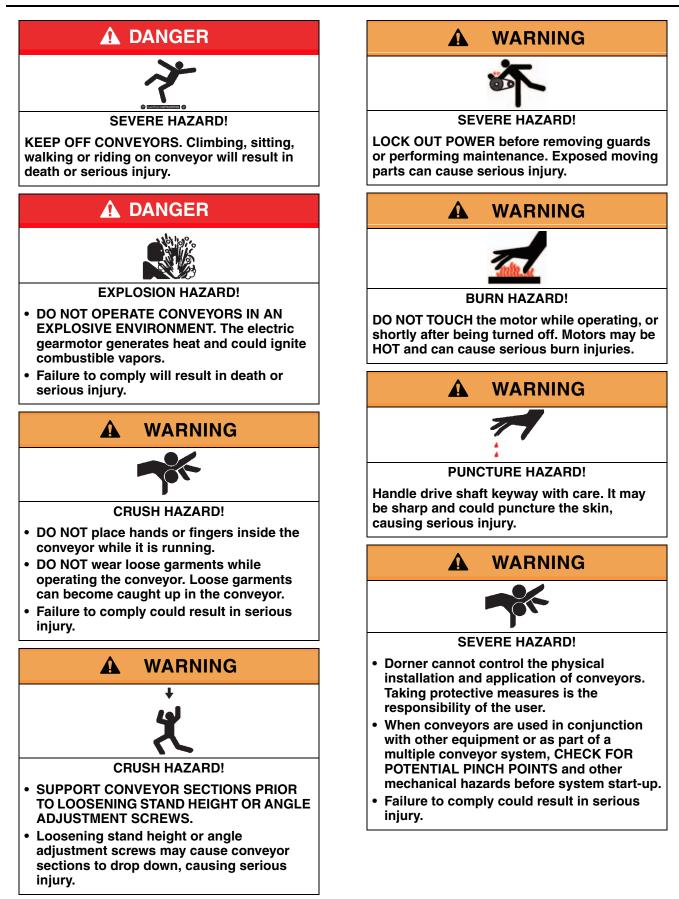
Proper conveyor application, cleaning, and sanitation are the responsibility of the end user.

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

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Warnings – General Safety



Product Description

Refer to (Figure 1) for typical conveyor components.

Typical Components

- 2 Gearmotor
- 3 Belt

1

- 4 Return
- 5 Support Stands

Conveyor

- 6 Motor Controller
- 7 Drive End
- 8 Tension End





Specifications

Specifications

| Conveyor Width Reference (WW) | 08 – 36 in 02 increments |
|-------------------------------|---|
| Maximum Conveyor Load | 20 lb / ft ² (97 kg / m ²) with a maximum of 1000 lb / ft ² (4882 kg / m ²) |
| Belt Travel | 12" (305 mm) per revolution of pulley |
| Belt Take-up | 2" (51 mm) |
| | |

| Conveyor Length Reference (LLL) | 020 – 999 in 001 increments |
|---------------------------------|---|
| Conveyor Length | 20" (508 mm) – 999" (25.4 m) in 1" (25 mm) increments |

IMPORTANT

Maximum conveyor loads are based on:

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

Specifications

Conveyor Supports

Maximum Distances: 1 (Infeed) = 3 ft (914 mm) 2 (Outfeed) = 3 ft (914 mm) ** Stand positions will be determined by the factory.

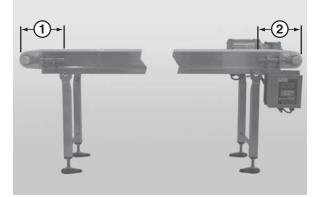
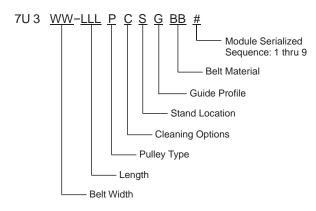


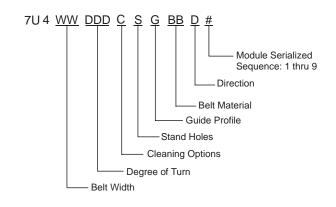
Figure 2

7400 Series Frame Section Numbers

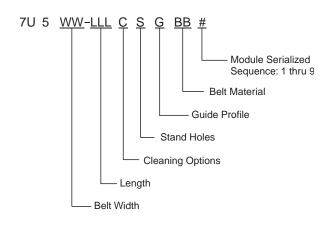
Straight Infeed Module / Idler Module



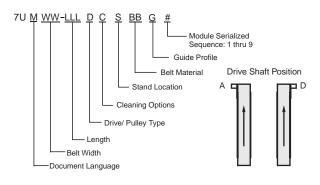
Curve Module



Straight Intermediate Module



Straight Exit / Drive Module



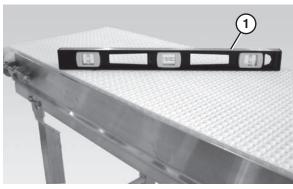
Dorner recommends cleaning all the "food zones" prior to placing conveyor into service. Ensure adequate access is provided for cleaning and servicing equipment so that the required level of hygiene can be maintained.

NOTE

Proper conveyor application, cleaning, and sanitation are the responsibility of the end user.



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





Required Tools

- 17 mm wrench (for hexagonal head fasteners)
- 4 mm hex wrench (for bearing shaft assembly fasteners)
- Level
- Torque wrench

Recommended Installation Sequence

- 1. Connect the frame sections together. "Frame Section Connection" on page 6.
- 2. Attach the stands to the conveyor. Refer to "Stand Installation" on page 7.
- 3. Attach the tail assemblies to the frame. Refer to "Tail Assembly Installation" on page 8.
- 4. Attach the lifters, if applicable. Refer to "Lifter Installation" on page 11.

- 5. Install the gearmotor, if applicable. Refer to the "7400 Series Drive Package Installation, Maintenance and Parts Manual."
- 6. Attach the wear strips. Refer to "Wear Strip Installation" on page 12.
- Attach the belt returns. Refer to "Belt Return Installation – Straight Frame Sections" on page 15.
- 8. Install the belt. Refer to "Belt Installation" on page 14.
- 9. Attach any guides / accessories. Refer to the "Service Parts" section starting on page 26.

Conveyor Installation

Frame Section Connection

Typical Connection Components (Figure 4)

- Conveyor frame section
 Curved conveyor frame section
 Hex post connector (x2)
 Flat connector (x2)*
 M10 1.5 x 12 mm hex head cap screw (x4)*
 - 6 M10 1.5 x 16 mm hex head cap screw (x4)
 - 7 O-rings (x8)

* For connections not supported by stands.

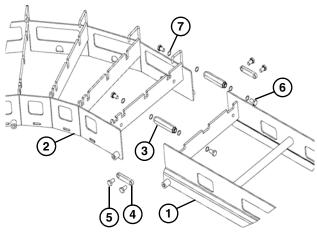


Figure 4

1. Locate the section number sequence etched on each section of frame (Figure 5, item 1).

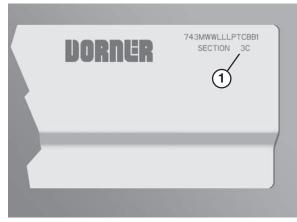


Figure 5

2. Position the frame sections in the correct order (**Figure 6**).

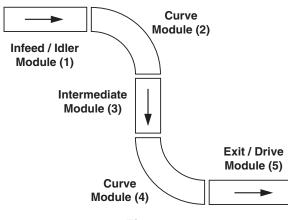


Figure 6

3. Connect the frame sections by bolting the hex post connectors (**Figure 7, item 1**) to the cross member supports of each frame section.

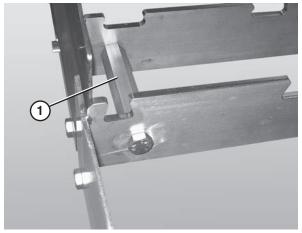


Figure 7

4. Attach the flat connectors (**Figure 8, item 1**), if applicable, to the inside of the frame sections.

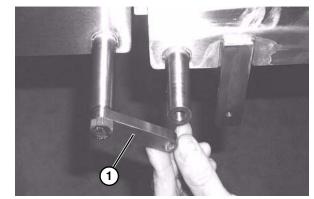


Figure 8

Stand Installation

Typical Stand Components (Figure 9)

Conveyor frame
 Stand
 M10 - 1.5 x 16 mm hex head cap screws (x4)

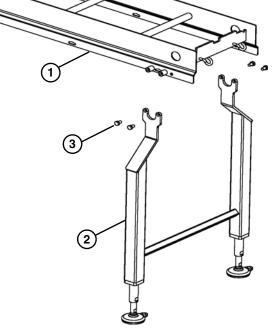


Figure 9

- Position the stands on a flat, level surface. 1.
- 2. Attach the stands to the frame (Figure 10).



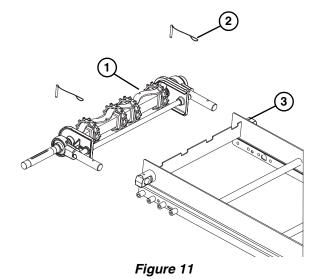
Figure 10

Tail Assembly Installation

Drive Tail

Typical Drive Tail Components (Figure 11)

- 1 Drive tail assembly
- 2 Pull pin (x2)
- 3 Conveyor frame



Slide the bearing shafts (Figure 12, item 1) into the take 1. up blocks (Figure 12, item 2).

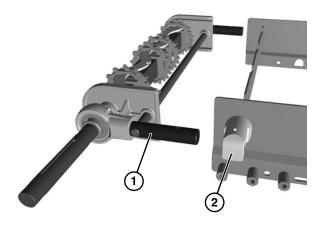


Figure 12

- Install the drive package, if applicable. Refer to the 2. "7400 Series Drive Package Installation, Maintenance and Parts Manual."
- 3. Insert the pull pins (Figure 13, item 1).

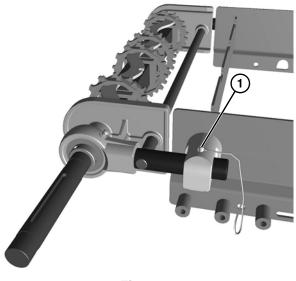


Figure 13

Tip Up Assembly

Typical Tip Up Assembly Components (Figure 14)

- 1 Hex Bar
- 2 Stop Key (x2)
- 3 Tip Up Sleeve (x2)

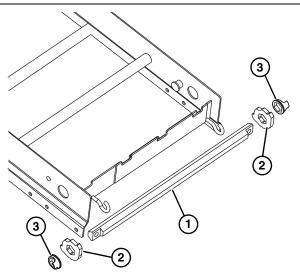


Figure 14

 Slide stop keys (Figure 15, item 1) and tip up sleeves (Figure 15, item 2) onto hex shaft (Figure 15, item 3). The tabs on the tip up sleeves face outward and align with the slotted ends of the hex shaft as shown. 2. Place hex shaft assembly (**Figure 16, item 1**) through the conveyor frame tip up holes (**Figure 16, item 2**) and center with conveyor.

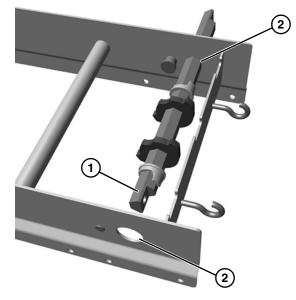


Figure 16

3. Hex shaft assembly will need to be rotated (**Figure 17**) for stop keys (**Figure 17**, **item 1**) to pass by the frame stops (**Figure 17**, **item 2**).

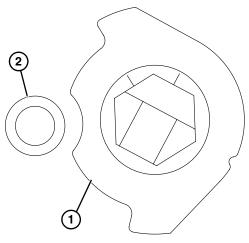


Figure 17

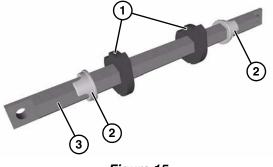
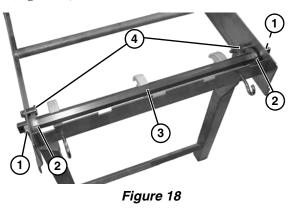


Figure 15

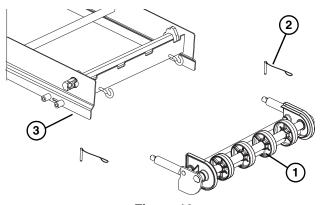
 Slide the tip up sleeves (Figure 18, item 1) and stop keys (Figure 18, item 1) outward on hex shaft assembly (Figure 18, item 3) until the sleeves seat in the holes of the frame and stop keys are seated against frame stops (Figure 18, item 4).



Idler Tail

Typical Idler Tail Components (Figure 19).

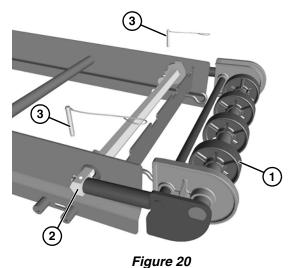
- 1 Tip up tail assembly
- 2 Pull pin (x2)
- 3 Conveyor frame





To avoid injury and damage to parts, have an assistant hold opposite end of idler tail when removing or installing it.

 Place the idler tail assembly (Figure 20, item 1) against the holes in the tip up hex shaft assembly (Figure 20, item 2) and secure with a pull pin (Figure 20, item 3) on each side.



Nose Bar Idler Tail

Typical Nose Bar Tip Up Tail Components (Figure 21).

- 1 Tip up tail assembly
- 2 Pull pin (x2)
- 3 Conveyor frame

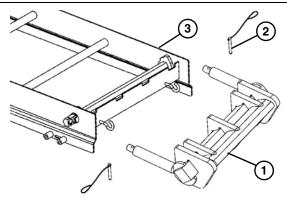
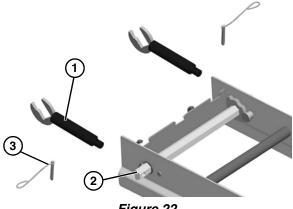


Figure 21

 Attach nose bar idler shaft hands (Figure 22, item 1) to the tip up shaft (Figure 22, item 2) with a pull pin (Figure 22, item 3).



- Figure 22
- 3. Attach the nose bar transfer post (Figure 23, item 1) to the nose bar idler shaft hands (Figure 23, item 2).

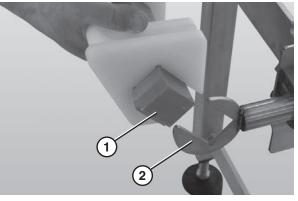


Figure 23

4. Ensure that the nose bar pucks (**Figure 24, item 1**) are in line with the conveyor frame (**Figure 24, item 2**).

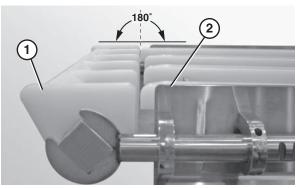


Figure 24

Lifter Installation

Typical Lifter Components (Figure 25)

- 1 Belt lift pivot bar
- 2 Lifter bars
- 3 Belt lift handle
- 4 M8 1.25 x 16 mm hex head cap screw

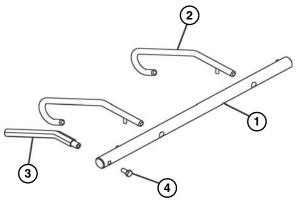


Figure 25

1. Slide the belt lift pivot bar (**Figure 26, item 1**) through the designated holes in the frame.

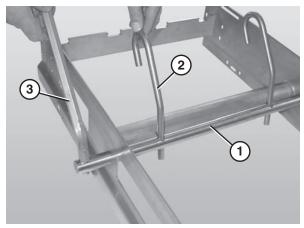


Figure 26

- 2. Attach the lifter bars (**Figure 26, item 2**) to the belt lift pivot bar (**Figure 26, item 1**). Make sure the hooked ends of the lifter bars are facing down when resting against the frame.
- 3. Attach the lifter handle (**Figure 26, item 3**) to the belt lift pivot rod.

Wear Strip Installation

Straight Frame Sections

Typical Wear Strip Components (Figure 27)

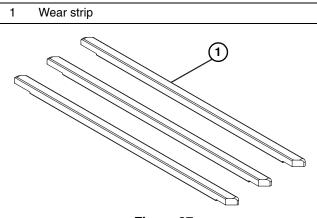


Figure 27

1. Position the wear strips (Figure 28, item 1) on the frame.

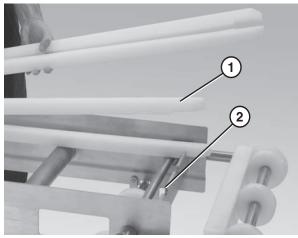


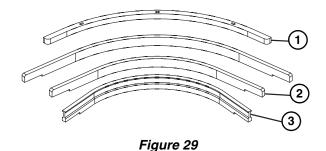
Figure 28

2. Make sure the wear strips are situated securely in the frame slots (**Figure 28, item 2**).

Curved Frame Sections

Typical Curved Wear Strip Components (Figure 29)

- 1 Hold down wear strip
- 2 Wear strip
- 3 Inside curve top wear strip



 Insert the inside curve top wear strip (Figure 30, item 1) into the innermost slot (Figure 30, item 2) on the inside of the frame.

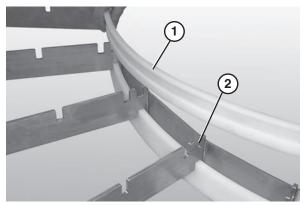
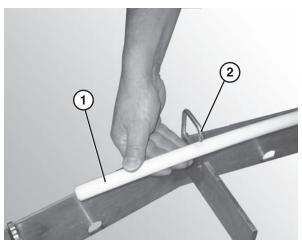


Figure 30

2. Attach the hold down wear strip (Figure 31, item 1) to the frame hooks (Figure 31, item 2) on the outside of the frame.





3. Insert the wear strips (**Figure 32, item 1**) into the appropriate slots in the frame (**Figure 32, item 2**), starting with the shortest wear strip on the inside of the curved section and working outward to the longest.

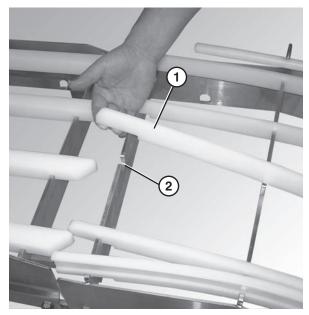


Figure 32

Belt Return Installation – Curved Frame Sections

Typical Curved Belt Return Components (Figure 33)

- 1 Return bottom wear strip
- 2 Curve return shaft
- 3 Chain return shoe
- 4 Inside return bottom wear strip

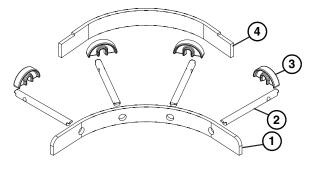


Figure 33

 Insert the inside return bottom wear strip (Figure 34, item 1) into the slots (Figure 34, item 2) on the lower inside section of the frame (figure shown without the belt or wear strips).

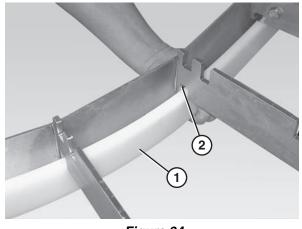


Figure 34

- 2. Attach the chain return shoes (Figure 34, item 1) to the curve return shafts (Figure 34, item 2).
- Slide the long end of the curve return shaft (Figure 35, item 1) through the center hole in the return bottom wear strip (Figure 35, item 2).

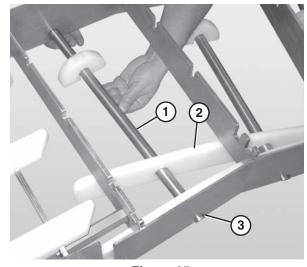


Figure 35

- 4. Slide the return shaft up and through the large slot in the frame. Make sure the holes in the return bottom wear strip match up with the holes in the conveyor frame.
- 5. Push up on the return shaft and slide the notched end of the shaft through the small slot on the opposite side of the frame (**Figure 35, item 3**).
- 6. Repeat steps 4-5 with the remaining returns.

Belt Installation

Typical Belt Components (Figure 36)

1 Chain belt 2 Belt rod

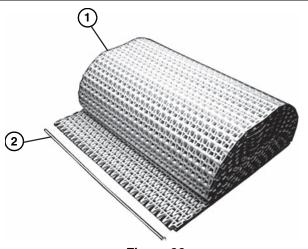


Figure 36

1. Position the belt on the conveyor frame (Figure 37).



Figure 37

2. Wrap the belt around the conveyor, making sure the sprocket teeth have engaged the belt.

3. Bring the ends of the belt together (Figure 38).



Figure 38

4. Insert the belt rod (Figure 39, item 1).

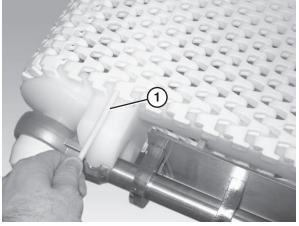
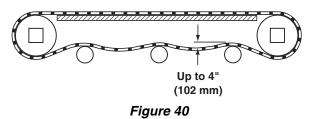


Figure 39

- 5. Push the belt rod in as far as possible.
- 6. Lightly tap the head of the rod with a hammer until it snaps into position.
- 7. Check belt sag by measuring from the top of the return (Figure 40).





Belt Return Installation – Straight Frame Sections

Typical Belt Return Components (Figure 41)

- 1 Return shaft
- 2 Chain return shoe

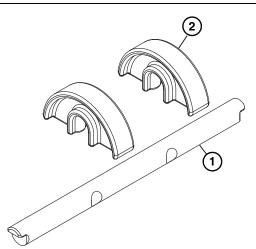


Figure 41

1. Attach the chain return shoes (Figure 42, item 1) to the return shaft (Figure 42, item 2).

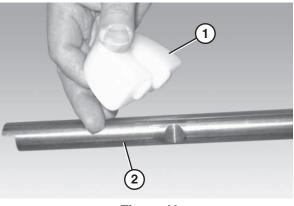


Figure 42

2. Slide the return shaft up (**Figure 43, item 1**) and through the large slot (**Figure 43, item 2**) in the frame (picture shown without the belt or wear strips).

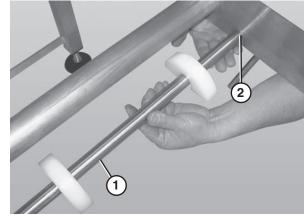
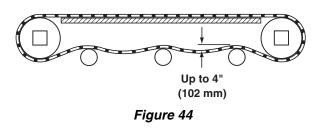


Figure 43

- 3. Push up on the return shaft (**Figure 43, item 1**) and slide the notched end of the shaft through the small slot on the opposite side of the frame.
- 4. Check belt sag by measuring from the top of the return (Figure 44). Belt sag should not exceed 4" (102 mm). Follow steps 7 9 in the "Belt Installation" section on page 14 to remove slack from the belt.





Required Tools

- 17 mm wrench (or adjustable wrench)
- 4 mm hex wrench (for bearing shaft assembly fasteners)
- 3 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 26 for recommendations.
- Replace any worn or damaged parts.

Cleaning

NOTE

Proper conveyor application, cleaning, and sanitation are the responsibility of the end user.

Dorner recommends cleaning all the "food zones" prior to placing conveyor into service. Ensure adequate access is provided for cleaning and servicing equipment so that the required level of hygiene can be maintained.

Routine Cleaning



Dorner recommends cleaning the inside and the outside of the conveyor on a daily basis. Refer to the following steps to access the inside of the conveyor.

Standard Conveyors

 Remove the guides, if applicable, by removing the pull pins (Figure 45, item 1) that connect the guide (Figure 45, item 2) to the frame.

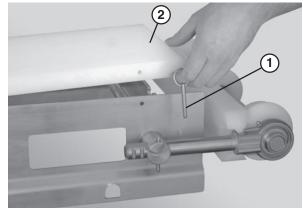


Figure 45

2. Tip up idler tail assembly (**Figure 46**).



Figure 46

3. Lift up on the belt (Figure 47).

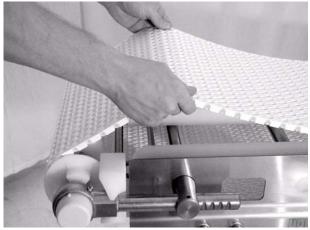


Figure 47

Conveyors with Tip Up Tails and Lifters

- Remove the guides, if applicable, by removing the pull pins (Figure 45, item 1) that connect the guide (Figure 45, item 2) to the frame.
- Use the lifter handle (Figure 48, item 1) to raise the lifters (Figure 48, item 2) and raise the tip up tail (Figure 48, item 3).

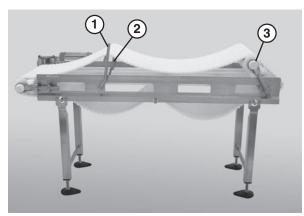


Figure 48

CAUTIONDO NOT submerge or soak bearing assemblies. This will reduce the life of the bearing.

Periodic Cleaning

Dorner recommends complete disassembly of the conveyor periodically for thorough cleaning.

For conveyor disassembly and reassembly instructions:

- Refer to "Conveyor Belt Replacement" on page 18.
- Refer to "Sprocket and Puck Removal" on page 20.
- Refer to "Reassembling Tail Assembly" on page 23.

Lubrication

Conveyor Bearings

Conveyor bearing lubrication is required. Dorner recommends using an H-1 food grade grease.

NOTE

Although bearings are sealed, re-greasing is recommended to increase bearing life. An H-1 food grade grease is recommended. The frequency of bearing re-greasing is dependent upon the application in which the conveyor is being used. Frequency of regreasing will increase with the frequency of conveyor washing. Add grease to the bearing using the zerk fitting (Figure 49, item 1) on the exterior of the bearing shaft assembly.



Figure 49

2. Replace the bearings if they become worn.

Wear Strips and Belt Returns

Replace the wear strips and belt returns if they become worn. For wearstrip and belt return installation instructions:

- Refer to "Wear Strip Installation" on page 12.
- Refer to "Belt Return Installation Straight Frame Sections" on page 15.

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 sprockets or impacted dirt on drive pulley

Damage to belt links or rods indicate:

Skipping indicates:

- Excessive load on belt
- Dirt impacted on sprockets
- Excessive or improper side loading
- Improperly positioned accessories

Conveyor Belt Replacement



Conveyors with Guides

1. Remove the pull pins (Figure 50, item 1) that connect the guide (Figure 50, item 2) to the frame.

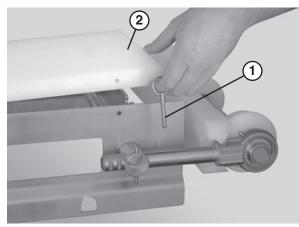


Figure 50

2. Remove the guide (Figure 51, item 1).

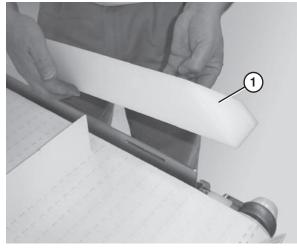


Figure 51

 Follow the belt replacement procedures described in "Standard Belts" on page 18, or "Specialty Intralox 2400 Series Belts" on page 19.

Standard Belts

Replacing a Section of Belt

1. Tip up idler tail assembly (Figure 52).

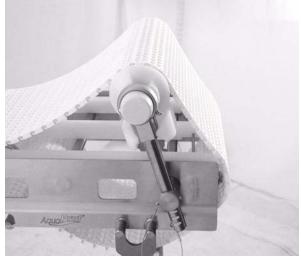


Figure 52

CAUTION

Secure the retaining head side of the belt prior to removing a belt rod in order to prevent damaging the belt.

2. Secure the retaining head side of the belt. Use the belt removal tool (Figure 53, item 1) for 1" pitch belts. For all other belts, position the section of belt so that it is braced by the flanged puck (Figure 53, item 2).

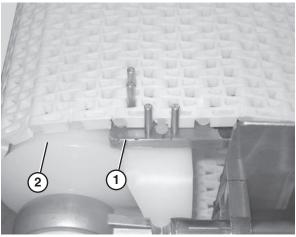


Figure 53

3. Use a punch and hammer to push the belt rod out by striking the rod end opposite the retaining head (Figure 54).



Figure 54

- 4. Remove the belt rods on both sides of the section of belt being replaced.
- 5. Replace the old section with a new section of belt.

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

Replacing the Entire Belt

1. Remove the belt returns by pushing up on the return shaft (Figure 55, item 1) and sliding it through the large hole (Figure 55, item 2) in the frame.

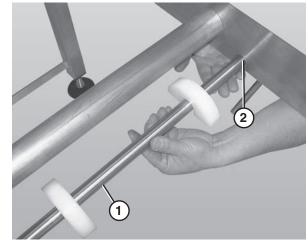


Figure 55

- 2. Lower the opposite end of the return shaft (Figure 55, item 1) and slide it out of the frame.
- Follow steps 1 3 in "Standard Belts: Replacing a Section of Belt" on page 18.
- 4. Remove the belt.
- 5. Replace the damaged or worn belt. Refer to "Belt Installation" on page 14 and "Belt Return Installation" on page 15.

Specialty Intralox 2400 Series Belts

Replacing a Section of Belt

1. Tip up idler tail assembly (Figure 56).

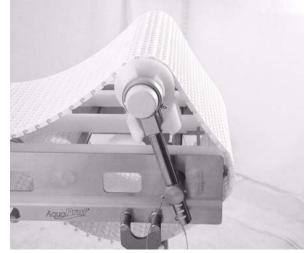


Figure 56

Secure the retaining head side of the belt prior to removing a belt rod in order to prevent damaging the belt.

2. Use a punch and hammer to push the belt rod out by striking the rod end opposite the retaining head (Figure 57, item 1).

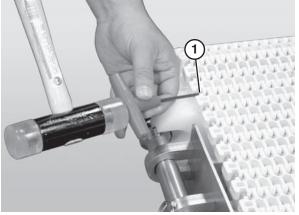


Figure 57

- 3. Remove the belt rods on both sides of the section of belt being replaced.
- 4. Replace the old section with a new section of belt.

CAUTION

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

Replacing the Entire Belt

1. Remove the belt returns by pushing up on the return shaft (**Figure 58, item 1**) and sliding it through the large hole (**Figure 58, item 2**) in the frame.

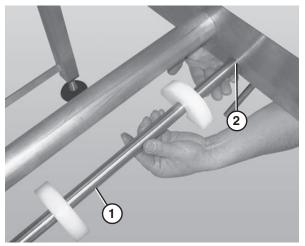


Figure 58

- 2. Lower the opposite end of the return shaft (**Figure 58, item 1**) and slide it out of the frame.
- 3. Follow steps 1 3 in "Specialty Intralox 2400 Series Belts: Replacing a Section of Belt" on page 19.
- 4. Remove the belt.
- Replace the damaged or worn belt. Refer to "Belt Installation" on page 14, and "Belt Return Installation – Straight Frame Sections" on page 15.

Conveyor Belt Tensioning



SEVERE HAZARD!

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

Belt sag should not exceed 4" (102 mm) from the top of the returns.

- 1. Check belt for proper sag. Refer to step 7 of "Belt Installation" on page 14.
- 2. If belt has excessive sag, remove one or more belt links to take up the tension. Refer to "Replacing a Section of Belt" on page 18.

Sprocket and Puck Removal



- 1. Remove the conveyor belt to access the sprockets / pucks. Refer to "Conveyor Belt Replacement" on page 18.
- 2. Remove the desired sprocket / puck by following these instructions:
- A Drive Sprocket Removal
- B Idler Puck Removal
- C Nose Bar Puck Removal

A - Drive Sprocket Removal



1. Loosen the button head screws (Figure 59, item 1) that connect the gearmotor to the drive spindle.

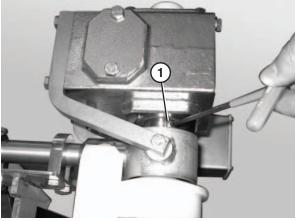


Figure 59

- 2. Remove the bolts that connect the motor to the drive assembly (**Figure 60**).
- 3. Remove the motor (Figure 60, item 1) from the drive assembly (Figure 60, item 2).

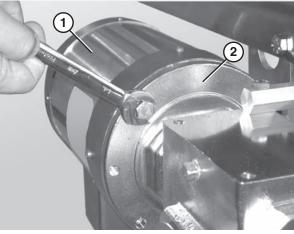


Figure 60

4. Unbolt the drive assembly and slide it off the bearing spindle (**Figure 61, item 1**). Retain key from spindle keyway.

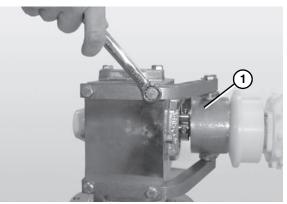


Figure 61

5. Remove the pull pin (Figure 62, item 1).

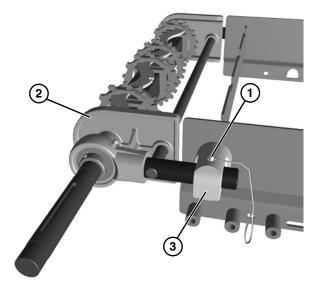


Figure 62

6. Slide the drive tail assembly (**Figure 62, item 2**) out of the take up blocks (**Figure 62, item 3**).

7. Use a hex wrench to loosen two set screws (**Figure 63, item 1**) on the bearing shaft assembly.

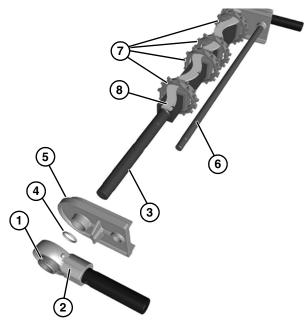


Figure 63

8. Slide the bearing shaft assembly (**Figure 63, item 2**) off the drive spindle (**Figure 63, item 3**).

NOTE

When removing tracking plate, be certain not to lose O-ring (Figure 63, item 4).

- 9. Slide the tracking plate (**Figure 63, item 5**) off the drive spindle.
- 10. Remove pinch guard shaft (Figure 63, item 6).
- 11. Remove the sprockets (Figure 63, item 7). and alignment bar (Figure 63, item 8).

B - Idler Puck Removal

1. Remove the pull pins (Figure 64, item 1) from tip up hex shaft assembly (Figure 64, item 2).

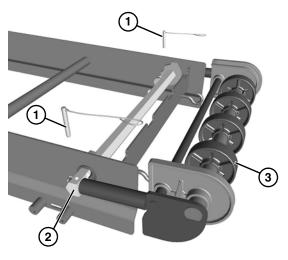
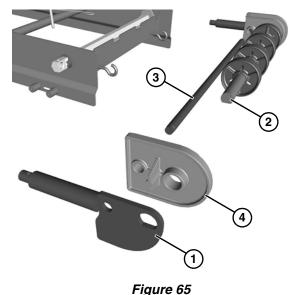


Figure 64

- 2. Slide the idler tail assembly (**Figure 64, item 3**) out of the tip up hex shaft assembly.
- 3. Remove the shaft assembly (Figure 65, item 1) from idler shaft (Figure 65, item 2) and pinch guard shaft (Figure 65, item 3).



- 4. Remove tracking plate (**Figure 65, item 4**) from idler shaft and pinch guard shaft.
- 5. Remove pinch guard shaft (Figure 65, item 2).

 Slide the pucks (Figure 66, item 1) and alignment bar (Figure 66, item 2) off the idler shaft (Figure 66, item 3).

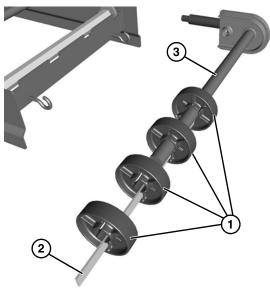


Figure 66

C - Nose Bar Puck Removal

 Slide the nose bar drive or transfer post (Figure 67, item 1) out of the nose bar drive weldment or idler hands (Figure 67, item 2).

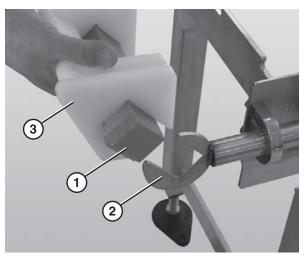


Figure 67

2. Remove the nose bar tracking pucks (Figure 67, item 3), if applicable.

3. Remove the nose bar wear strip (Figure 68, item 3).

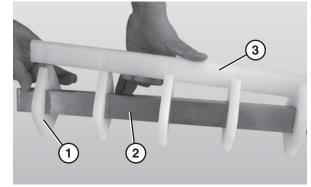


Figure 68

4. Slide the nose bar pucks (Figure 68, item 1) off the nose bar shaft (Figure 68, item 2).

Reassembling Tail Assembly

Refer to the "Service Parts" section starting on page 26 for complete diagrams and lists of all tail assembly components.

Idler Tail

1. Place the pucks (Figure 69, item 1) onto the alignment bar (Figure 69, item 2), and install onto the idler shaft (Figure 69, item 3).

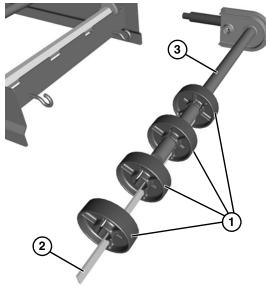


Figure 69

2. Slide all the idler pucks (**Figure 69, item 1**) along with alignment bar onto idler shaft (**Figure 69, item 3**).

3. Install the tracking plate (Figure 70, item 1) to each side onto idler shaft (Figure 70, item 2) and pinch guard shaft (Figure 70, item 3).

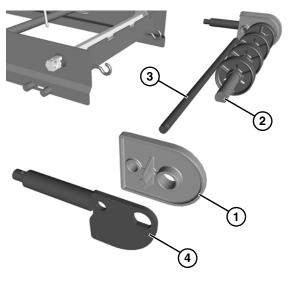
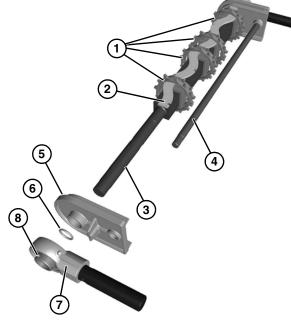


Figure 70

4. Install the shaft assembly (Figure 70, item 4).

Drive Tail

1. Assemble sprockets (Figure 71, item 1) to the slots of alignment bar (Figure 71, item 2), and install assembly onto drive spindle (Figure 71, item 3).



NOTE

When installing tracking plate, be certain Oring (Figure 71, item 6) is installed.

4. Slide the shaft assembly (**Figure 71, item 7**) onto the drive spindle and tighten set screws (**Figure 71, item 8**) on bearing.

Nose Bar Idler

1. Slide the nose bar pucks (Figure 72, item 1) onto the nose bar drive post (Figure 72, item 2).

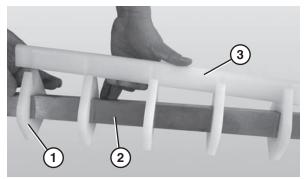


Figure 72

- 2. Attach the nose bar wear strip (Figure 72, item 3).
- 3. Attach the nose bar tracking pucks (Figure 73, item 1) to the nose bar drive post (Figure 73, item 2).

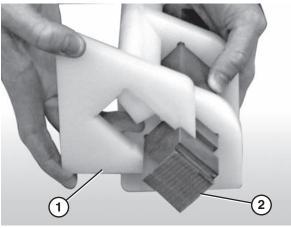


Figure 73

Figure 71

- 2. Install pinch guard shaft (Figure 71, item 4).
- 3. Slide the tracking plate (**Figure 71, item 5**) onto the drive spindle and pinch guard shaft.

4. After all tracking pucks (Figure 74, item 3) are installed, slide the nose bar drive or transfer post (Figure 74, item 1) into the nose bar drive weldment or idler hands (Figure 74, item 2).

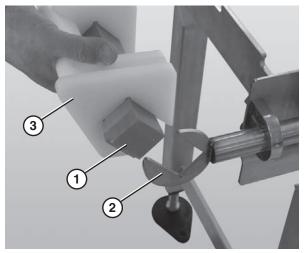


Figure 74

Bearing Replacement

- Secure the bearing shaft in the take up blocks. 1.
- 2. Insert the rod end of a second bearing shaft through the bearing (Figure 75).

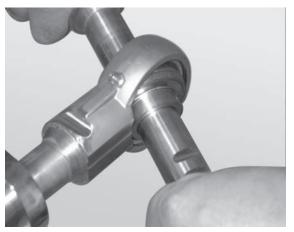


Figure 75

3. Apply lateral pressure to the rod until the bearing comes loose.

4. Remove the worn or damaged bearing (Figure 76).

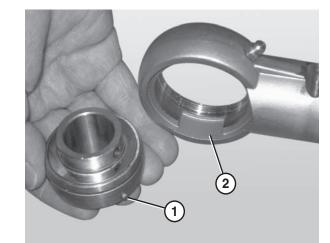


Figure 76

5. Replace the bearing.

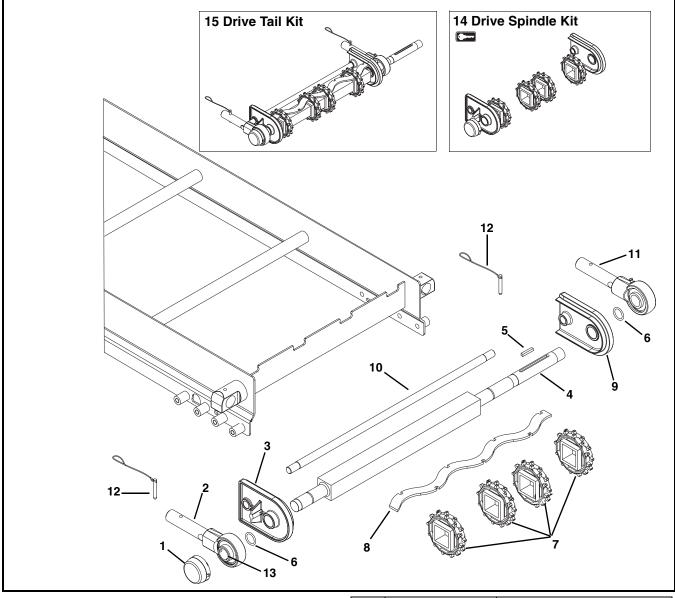
NOTE

When inserting the new bearing, make sure the anti-rotation notch (Figure 76, item 1) on the bearing lines up with the groove inside the housing (Figure 76, item 2).

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



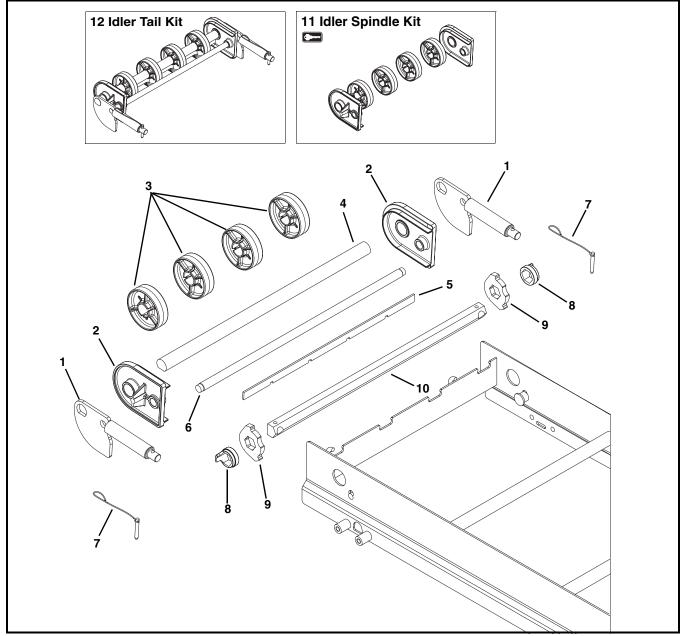
| Part Number | Description | | Item | Part Number | Description |
|-------------------|---|--|---|--|--|
| 807-1454 | Bearing Cover | | 5 | 912-111SS | Square Key, 0.25 x 2.50" |
| 506394 | Shaft Assembly, with Bearing | | 6 | 807-1588 | O-Ring |
| 506334- <u>WW</u> | Tracking Plate for Standard Belt | | 7 | 807-1444 | Sprocket, for Standard 1.00" |
| 506336-WW | Tracking Plate. | | | | Pitch Belt |
| <u></u> | for Specialty Intralox Belt | | | 807-1446 | Sprocket for Specialty Intralox .60" Pitch Belt |
| 506308-WW | Drive Spindle | | | | |
| 506310- <u>WW</u> | CE Drive Spindle | | | 807-1445 | Sprocket for Specialty Intralox 1.00" Pitch Belt |
| | 807-1454 506394 506334- <u>WW</u> 506336- <u>WW</u> 506308- <u>WW</u> | 807-1454 Bearing Cover 506394 Shaft Assembly, with Bearing 506334-WW Tracking Plate for Standard Belt 506336-WW Tracking Plate, for Specialty Intralox Belt 506308-WW Drive Spindle | 807-1454Bearing Cover506394Shaft Assembly, with Bearing506334-WWTracking Plate for Standard Belt506336-WWTracking Plate, for Specialty Intralox Belt506308-WWDrive Spindle | Boot Bearing Cover 5 506394 Shaft Assembly, with Bearing 6 506334- <u>WW</u> Tracking Plate for Standard Belt 7 506336- <u>WW</u> Tracking Plate, for Specialty Intralox Belt 7 506308- <u>WW</u> Drive Spindle 7 | 1 art rumberDescription807-1454Bearing Cover506394Shaft Assembly, with Bearing506334-WWTracking Plate for Standard Belt506336-WWTracking Plate, for Specialty Intralox Belt506308-WWDrive Spindle |

7400 Ultimate Series Curved End Drive Conveyors

| Item | Part Number | Description |
|------|---------------------|--|
| 8 | 5160 <u>WW</u> | Sprocket Alignment Bar, for Standard 1.00" Pitch Belt |
| | 5163 <u>WW</u> | Sprocket Alignment Bar, for Specialty Intralox .60" Pitch Belt |
| | 5164 <u>WW</u> | Sprocket Alignment Bar for Specialty Intralox 1.00" Pitch Belt |
| 9 | 506335- <u>WW</u> | Drive End Tracking Plate, for Standard Belt |
| | 506387- <u>WW</u> | Drive End Tracking Plate, for Specialty Intralox Belt |
| 10 | 506359- <u>WW</u> | Pinch Guard Shaft |
| 11 * | 506394 | Shaft Assembly with Bearing |
| 12 | 501489 | Pin Assembly |
| 13 | 802-162 | Bearing |
| 14 | 74DDU25X- <u>WW</u> | Drive Spindle Kit, for Flat Belt Conveyor when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Standard 1.00" Pitch Belt (Includes Items 1, 3, 6, 7, 9 and 13) |
| | 74DDU16X- <u>WW</u> | Drive Spindle Kit, for Flat Belt Conveyor when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Specialty Intralox .60" Pitch Belt (Includes Items 1, 3, 6, 7, 9 and 13) |
| | 74DDU11X- <u>WW</u> | Drive Spindle Kit, for Flat Belt Conveyor when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Specialty Intralox 1.00" Pitch Belt (Includes Items 1, 3, 6, 7, 9 and 13) |
| | 74DCU25X- <u>WW</u> | Drive Spindle Kit, for Flat Belt Conveyor when Conveyor is ordered without a Dorner Gearmotor Mounting Package for Standard 1.00" Pitch Belt (Includes Items 1, 3, 6, 7, 9 and 13) |
| | 74DCU16X- <u>WW</u> | Drive Spindle Kit, for Flat Belt Conveyor when Conveyor is ordered without a Dorner Gearmotor Mounting Package for Specialty Intralox .60" Pitch Belt (Includes Items 1, 3, 6, 7, 9 and 13) |
| | 74DCU11X- <u>WW</u> | Drive Spindle Kit, for Flat Belt Conveyor when Conveyor is ordered without a Dorner Gearmotor Mounting Package for Specialty Intralox 1.00" Pitch Belt (Includes Items 1, 3, 6, 7, 9 and 13) |

| Item | Part Number | Description |
|--------|------------------------------|--|
| 15** | 74DDDTU25X-WW | Drive Tail Kit when Conveyor is |
| | | ordered with a Dorner Gearmotor Mounting Package |
| | | for Standard 1.00" Pitch Belt (Includes Items 1 through 12) |
| | 74DDDTU16X- <u>WW</u> | Drive Tail Kit when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Specialty Intralox .60" Pitch Belt (Includes Items 1 through 12) |
| | 74DDDTU11X- <u>WW</u> | Drive Tail Kit when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Specialty Intralox 1.00" Pitch Belt (Includes Items 1 through 12) |
| | 74DDCTU25X- <u>WW</u> | Drive Tail Kit when Conveyor is ordered without a Dorner Gearmotor Mounting Package for Standard 1.00" Pitch Belt (Includes Items 1 through 12) |
| | 74DDCTU16X- <u>WW</u> | Drive Tail Kit when Conveyor is ordered without a Dorner Gearmotor Mounting Package for Specialty Intralox .60" Pitch Belt (Includes Items 1 through 12) |
| | 74DDCTU11X- <u>WW</u> | Drive Tail Kit when Conveyor is ordered without a Dorner Gearmotor Mounting Package for Specialty Intralox 1.00" Pitch Belt (Includes Items 1 through 12) |
| WW = | = Conveyor width ref: | 06 - 36 in 02 increments |
| | | d with a Dorner gearmotor |
| gearn | notor mounting brack | |
| ** Dri | | ailable for CE conveyors. |
| | Sprocket (Width | Quantity (Item 7) |
| | 6" (152 mm) | 2 |
| | 3" (203 mm) | 2 |
| | 10" (254 mm) | 3 |
| 1 | 12" (305 mm) | 3 |
| | 14" (356 mm) | 4 |
| | 16" (406 mm) | 4 |
| | 18" (457 mm) | 5 |
| | 20" (508 mm) 22" (559 mm) | 5 6 |
| | 24" (610 mm) | 6 |
| | 26" (660 mm) | 7 |
| | 28" (711 mm) | 7 |
| | 30" (762 mm) | 8 |
| | 32" (813 mm) | 8 |
| | 34" (864 mm) | 9 |
| 3 | 36" (914 mm) | 9 |

Tip Up Idler End

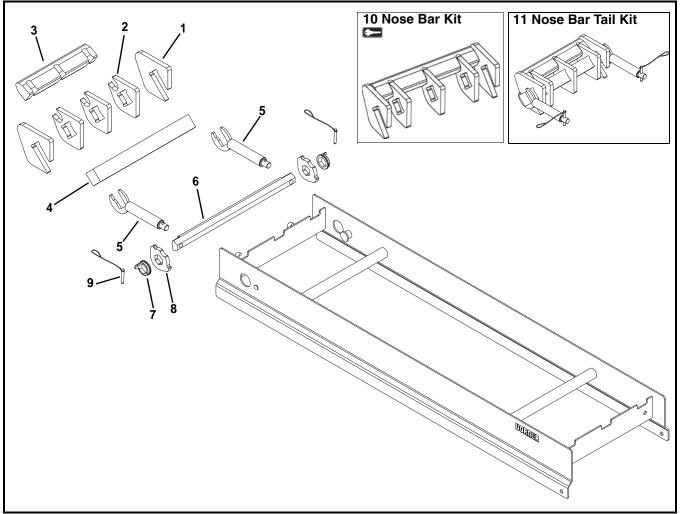


| Item | Part Number | Description |
|------|-------------------|---|
| 1 | 506802 | Idler Shaft Assembly |
| 2 | 506327- <u>WW</u> | Tracking Plate for Standard Belt |
| | 506332- <u>WW</u> | Tracking Plate for Specialty Intralox Belt |
| 3 | 506297 | Idler Puck |
| 4 | 501189 | Idler Shaft |
| 5 | 506313- <u>WW</u> | Alignment Bar for Standard Belt |
| | 506314- <u>WW</u> | Alignment Bar, for Specialty Intralox Belt |
| 6 | 506396- <u>WW</u> | Pinch Guard Shaft |
| 7 | 501489 | Pin Assembly |

| ltem | Part Number | Description |
|--|--------------------|--|
| 8 | 506307 | Tip Up Sleeve |
| 9 | 506356 | Stop Key |
| 10 | 506391- <u>WW</u> | Hex Bar |
| 11 | 74UIX- <u>WW</u> | Idler Spindle Kit for Standard Belt (Includes Items 2 and 3) |
| | 74UISX- <u>WW</u> | Idler Spindle Kit for Specialty Intralox Belt (Includes Items 2 and 3) |
| 12 | 74UITX- <u>WW</u> | Idler Tail Kit for Standard Belt (Includes Items 1 through 7) |
| | 74UITSX- <u>WW</u> | Idler Tail Kit for Specialty Intralox Belt (Includes Items 1 through 7) |
| <u>WW</u> = Conveyor width ref: 06 - 36 in 02 increments | | |

7400 Ultimate Series Curved End Drive Conveyors

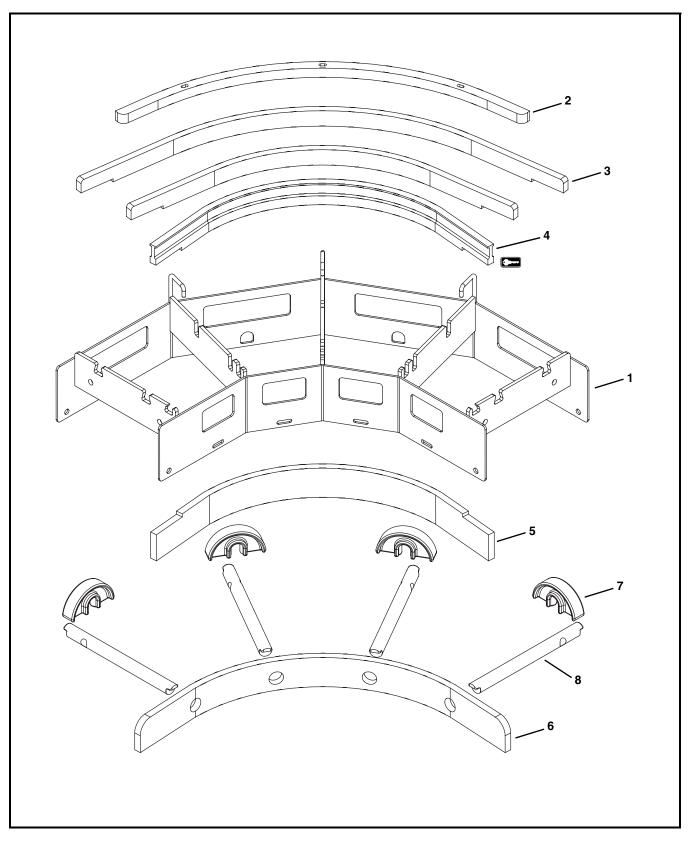
Nose Bar Tip Up Idler End



| Item | Part Number | Description |
|------|-------------------|---|
| 1 | 500490 | Nose Bar Tracking Puck |
| 2 | 500278 | Nose Bar Puck |
| 3 | 5056 <u>WW</u> | Wear Strip |
| 4 | 5037 <u>WW</u> | Nose Bar Transfer Post for Standard Belt |
| | 5076 <u>WW</u> | Nose Bar Transfer Post for Specialty Intralox Belt |
| 5 | 509805 | Nose Bar Idler Shaft |
| 6 | 506391- <u>WW</u> | Hex Bar |

| Item | Part Number | Description | |
|-------------|--|--|--|
| 7 | 506307 | Tip Up Sleeve | |
| 8 | 506356 | Stop Key | |
| 9 | 501489 | Pin Assembly | |
| 10 | 74UNB5X- <u>WW</u> | Nose Bar Kit (Includes Items 1 through 3) | |
| 11 | 74UNBT5X- <u>WW</u> | Nose Bar Tail Kit for Standard Belt (Includes Items 1 through 5 and 9) | |
| | 74UNBT5SX- <u>WW</u> | Nose Bar Tail Kit for Specialty Intralox Belt (Includes Items 1 through 5 and 9) | |
| <u>WW</u> = | <u>WW</u> = Conveyor width ref: 06 - 36 in 02 increments | | |

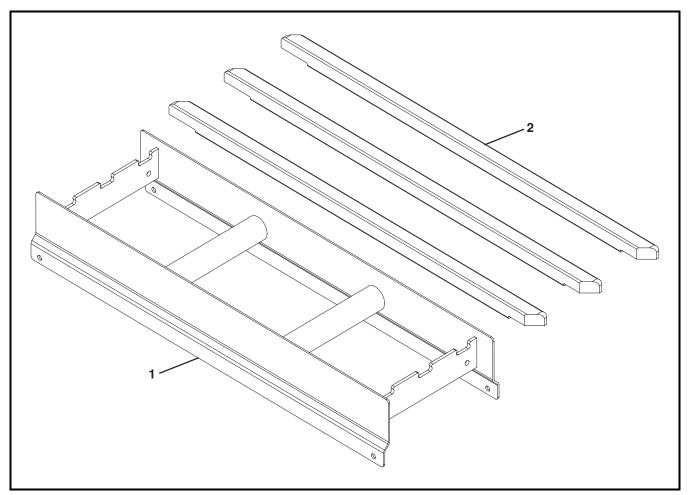
Curve Conveyor Frame and Wear Strips



| Item | Part Number | Description | | |
|---|--|--|--|--|
| 1 | | Consult Factory for Frame Part Number | | |
| 2 | 500189- <u>LLLLL</u> | Hold Down Wearstrip | | |
| 3 | 500186- <u>LLLLL</u> | Curved Bed Rail Group | | |
| 4 | 500187- <u>LLLLL</u> | Low Side Inside Curve Top Wearstrip | | |
| | 500197- <u>LLLLL</u> | High Side Inside Curve Top Wearstrip | | |
| 5 | 500188- <u>LLLLL</u> | Inside Return Bottom Wearstrip | | |
| 6 | 500190- <u>LLLLL</u> | Return Bottom Wearstrip | | |
| 7 | 500075 | Chain Return | | |
| 8 | 5033 <u>WW</u> | Curve Return Shaft | | |
| LLLLL = Length in inches with 2 decimal places. | | | | |
| Exam | Example: Length = 95.25" LLLLL = 09525 | | | |
| <u>WW</u> = | <u>WW</u> = Conveyor width ref: 08 - 36 in 02 increments | | | |

| | Section Degree of Turn Chart | | | | | |
|--------|------------------------------|---------------------|---------|-----------------|--|--|
| | | Conveyor Width (WW) | | | | |
| | | 08-10 | 12-24 | 26-36 | | |
| | 15 | N/A | 15 | 15 | | |
| | 30 | 30 | 30 | 30 | | |
| r | 45 | N/A | 45 | 45 | | |
| Turn | 60 | 60 | 60 | 30 & 30 | | |
| e of | 75 | N/A | 75 | 45 & 30 | | |
| Jree | 90 | 90 | 90 | 45 & 45 | | |
| Degree | 105 | N/A | 60 & 45 | 45, 30 & 30 | | |
| | 120 | 60 & 60 | 60 & 60 | 45, 45 & 30 | | |
| Module | 135 | N/A | 75 & 60 | 45, 45 & 45 | | |
| M | 150 | 90 & 60 | 75 & 75 | 45, 45, 30 & 30 | | |
| | 165 | N/A | 90 & 75 | 45, 45, 45 & 30 | | |
| | 180 | 90 & 90 | 90 & 90 | 45, 45, 45 & 45 | | |

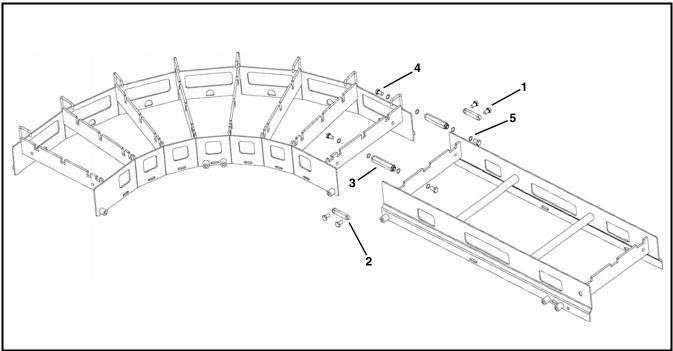
Straight Conveyor Frame and Wear Strips



| Item | Part Number | Description | |
|--------------|---|--|--|
| 1 | | Consult Factory for Frame Part Number | |
| 2 | 501800- <u>LLL</u> | Straight Wear Strip (Refer to chart) | |
| <u>LLL</u> = | <u>LLL</u> = Conveyor length ref: 020 - 999 in 001 increments | | |

| | Wear Strip Quantity (Item 2) | | | | | | | | |
|-----------------------|------------------------------|--|--------------------------------|-----|-----|-----|-----|-----|-----|
| | | | Conveyor Length (<u>LLL</u>) | | | | | | |
| | | 020- 133- 253- 373- 493- 613- 733- 853 | | | | | | | |
| | | 132 | 252 | 372 | 492 | 612 | 732 | 852 | 999 |
| | 08 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| | 10 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 |
| | 12 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 |
| - | 14 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 |
| (<u>MM</u>) | 16 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 |
| | 18 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 |
| Conveyor Width | 20 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| Vi | 22 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| yor | 24 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
| Ne | 26 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 |
| Cor | 28 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 |
| 0 | 30 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 |
| | 32 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 |
| | 34 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 |
| | 36 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 |

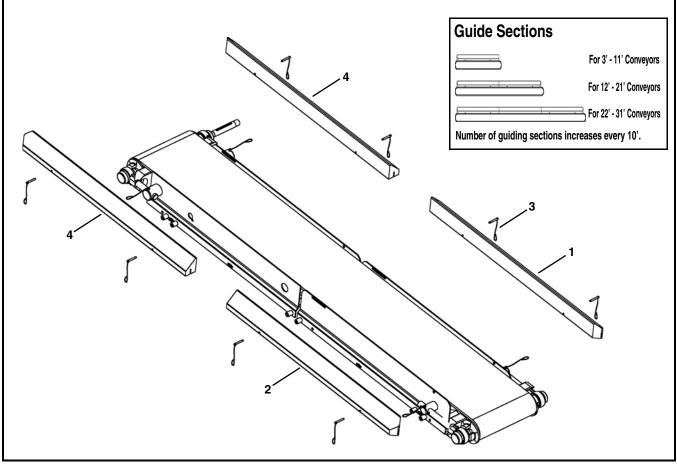
Conveyor Frame Connection



| Item | Part Number | Description |
|------|-------------|--|
| 1 | 961016MSS | Hex Head Cap Screw, M10-1.5x16mm |
| 2 | 501195 | Flat Connector (Not Applicable if Stand Located at Connection) |

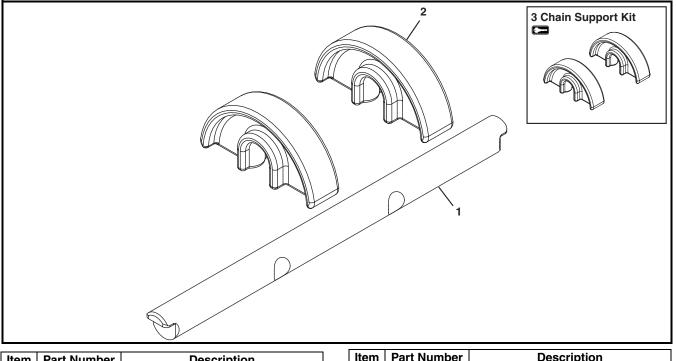
| Item | Part Number | Description |
|------|-------------|-------------------------------------|
| 3 | 501190 | Hex Post Connector |
| 4 | 501494 | Hex Head Cap Screw, M10-1.5x16mm |
| 5 | 807-1616 | O-Ring |

3" (76 mm) High Sides



| Item | Part Number | Description | Item | Part Numbe | r Description |
|------|----------------------|----------------------------|------|-----------------------|-------------------------------------|
| 1 | 503501- <u>LLLLL</u> | Right Hand High Side Guide | 4 | 503401- <u>LLLL</u> | Square End High Side Guide |
| 2 | 503601- <u>LLLLL</u> | Left Hand High Side Guide | LLLI | <u>L</u> = Guide Leng | th in inches with 2 decimal places. |
| 3 | 501676 | Pin Assembly | Exa | nple: Guide Len | gth = 95.25" <u>LLLLL</u> = 09525 |

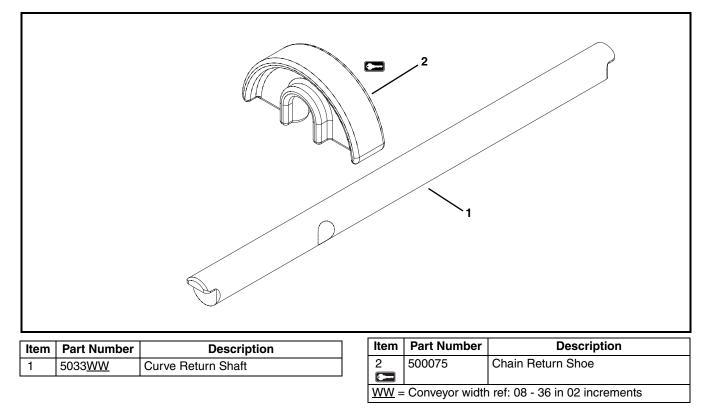
Straight Belt Return



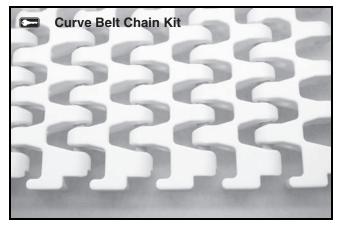
| ltem | Part Number | Description |
|------|----------------|-------------------|
| 1 | 5032 <u>WW</u> | Return Shaft |
| 2 | 500075 | Chain Return Shoe |

| ltem | Part Number | Description |
|---|----------------|-------------------------------------|
| 3 | 74R- <u>WW</u> | Chain Support Kit (Includes Item 2) |
| • | | |
| WW = Conveyor width ref: 08 - 36 in 02 increments | | |

Curve Belt Return

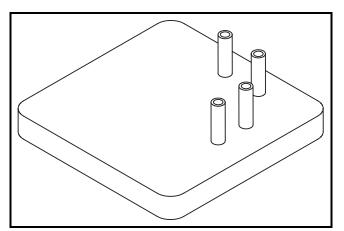


Curve Belt Chain Kit



| Item | Part Number | Description | |
|---------------|---|--|--|
| 1 | 74 <u>BB-WW</u> | Curve Belt Chain Kit (Includes 1 ft (305 mm) of flat belt chain and assembly pins) | |
| <u>BB</u> = 0 | <u>BB</u> = Chain Reference Number | | |
| <u>WW</u> = | WW = Conveyor width ref: 08 - 36 in 02 increments | | |

Belt Removal Tool



| ltem | Part Number | Description |
|------|-------------|--|
| 1 | 500582 | Tool Rod Removal for 1" Pitch Flush Grid Belt |
| | 500494 | Tool Rod Removal for 1/2" Pitch Flush Grid Belt |

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 74<u>BB</u>-<u>WW</u>

 $\underline{BB} = Chain reference number$

 \underline{WW} = Conveyor width ref: 08 - 36 in 02 increments

Configuring a Conveyor Part Number

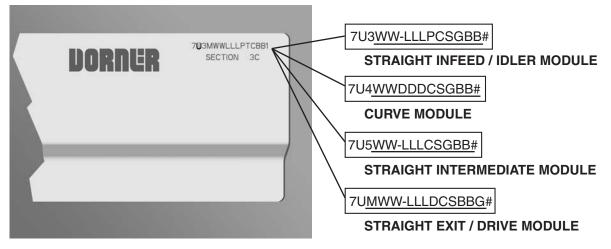


Figure 77

Curve Conveyor

Refer to your serial and model number plate (**Figure 77**). From the model number, determine conveyor width (<u>WW</u>), length (<u>LLL</u>), pulley type (<u>P</u>), stand location, cleaning options (<u>C</u>), stand holes (<u>S</u>), guide profile (<u>G</u>), belt material (<u>BB</u>), degree of turn (<u>DDD</u>), drive/pulley type (<u>D</u>) and module serialized sequence (<u>#</u>).

Straight Infeed / Idler Module Example: 7U324-12015B1MR1

Straight Infeed/Idler module, 24" wide, 10' long, ready for Dorner support stands, first stand 12" from pulley end including standard idler pulley, frame cutouts, belt lifters, tip up idler pulley option, lowside profile and MR belt material.

Straight Intermediate Module Example: 7U524-1807Z1MR3

Straight Intermediate module, 24" wide, 15' long, ready for Dorner support stands, including frame cutouts, belt lifters, lowside profile and MR belt material.

Curve Module Example: 7U4240901Z1MR4

Curve module, 24" wide, 90°, ready for Dorner support stands, including frame cutouts and MR belt material.

Straight Exit / Drive Module Example: 7UM24-04817CMR15

Straight Exit/Drive module, 24" wide, 4' long, ready for Dorner support stands, last stand mounted 18" from pulley end, and side drive mount in position D, including standard drive pulley, frame cutouts, belt lifters, lowside profile and MR belt material.

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 (if available, part serial number).

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization (RMA) number for reference. RMA will automatically close 30 days after being issued. To get credit, items must be new and undamaged. There will be a return charge on all items returned for credit, where Dorner was not at fault. It is the customer's responsibility to prevent damage during return shipping. Damaged or modified items will not be accepted. The customer is responsible for return freight.

Conveyors and conveyor accessories

| Standard catalog conveyors | 30% |
|--|----------------------|
| MPB, 7200, 7300 Series, cleated and specialty belt | 50% |
| AquaGard & AquaPruf Series conveyors | non-returnable items |
| Engineered to order products | case by case |
| Drives and accessories | 30% |
| Sanitary stand supports | non-returnable items |
| | |

Parts

Standard stock parts Plastic chain, cleated and specialty belts 30% 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 Customer Service Team 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.



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