



# 7400 Series Nose Bar Conveyors

## Installation, Maintenance and Parts Manual



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## Introduction

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### 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 7400 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 .

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## Warnings – General Safety

### DANGER



#### **SEVERE HAZARD!**

**KEEP OFF CONVEYORS.** Climbing, sitting, walking or riding on conveyor will result in death or serious injury.

### DANGER



#### **EXPLOSION HAZARD!**

- **DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.** The electric gearmotor generates heat and could ignite combustible vapors.
- Failure to comply will result in death or serious injury.

### WARNING



#### **CRUSH HAZARD!**

- **DO NOT** place hands or fingers inside the conveyor while it is running.
- **DO NOT** wear loose garments while operating the conveyor. Loose garments can become caught up in the conveyor.
- Failure to comply could result in serious injury.

### WARNING



#### **CRUSH HAZARD!**

- **SUPPORT CONVEYOR SECTIONS PRIOR TO LOOSENING STAND HEIGHT OR ANGLE ADJUSTMENT SCREWS.**
- Loosening stand height or angle adjustment screws may cause conveyor sections to drop down, causing serious injury.

### WARNING



#### **SEVERE HAZARD!**

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

### WARNING



#### **BURN HAZARD!**

**DO NOT TOUCH** the motor while operating, or shortly after being turned off. Motors may be **HOT** and can cause serious burn injuries.

### WARNING



#### **PUNCTURE HAZARD!**

Handle drive shaft keyway with care. It may be sharp and could puncture the skin, causing serious injury.

### WARNING



#### **SEVERE HAZARD!**

- Dorner cannot control the physical installation and application of conveyors. Taking protective measures is the responsibility of the user.
- When conveyors are used in conjunction with other equipment or as part of a multiple conveyor system, **CHECK FOR POTENTIAL PINCH POINTS** and other mechanical hazards before system start-up.
- Failure to comply could result in serious injury.

# Product Description

Refer to (Figure 1) for typical conveyor components.

Typical Components	
1	Conveyor
2	Gearmotor
3	Belt
4	Return
5	Support Stands
6	Motor Controller
7	Drive End
8	Tension End

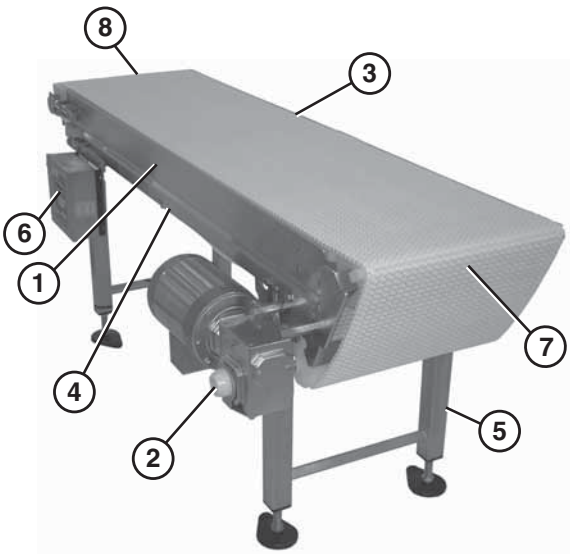
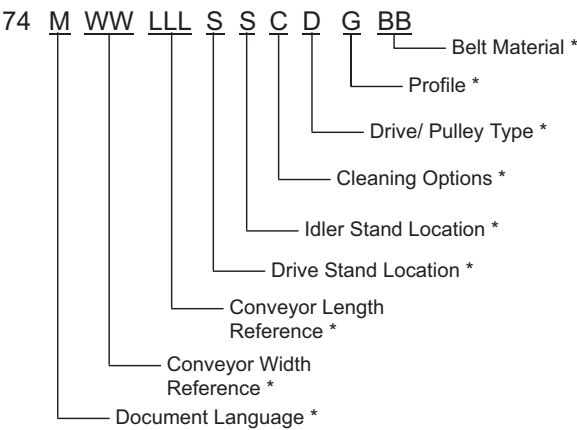


Figure 1

# Specifications

## Flat Belt 7400 Series Conveyor



\* Refer to “Ordering and Specifications” Catalog for details.

## Conveyor Supports

Maximum Distances:

- 1 = 3 ft (914 mm)
- 2 = 8 ft (2438 mm)\*\*
- 3 = 3 ft (914 mm)
- \*\* For conveyors longer than 10 ft (3.05 m), install support at frame joint.

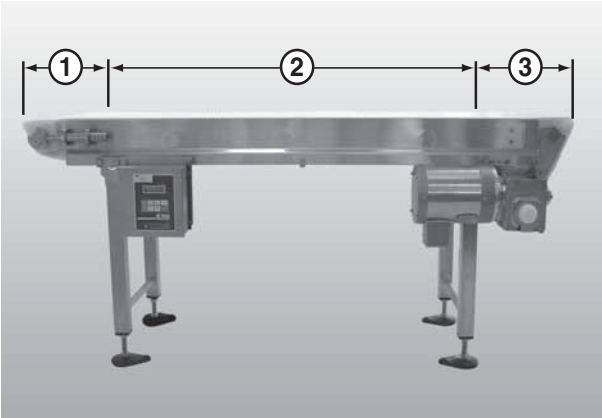


Figure 2

## Specifications

<b>Conveyor Width Reference (WW)</b>	06 – 60 in 02 increments
<b>Conveyor Belt Width</b>	6" (152 mm) – 60" (1524 mm) in 2" (51 mm) increments
<b>Maximum Conveyor Load</b>	20 lb / ft <sup>2</sup> (97 kg / m <sup>2</sup> ) with a maximum of 1000 lb / ft <sup>2</sup> (4882 kg / m <sup>2</sup> )
<b>Belt Travel</b>	12" (305 mm) per revolution of pulley
<b>Maximum Belt Speed</b>	117 ft / minute (36 m / minute)
<b>Belt Take-up</b>	2" (51 mm)

<b>Conveyor Length Reference (LLL)</b>	048 – 999 in 001 increments
<b>Conveyor Length</b>	48" (1176 mm) – 999" (25.4 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*

# Installation

## CAUTION

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.

## CAUTION

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

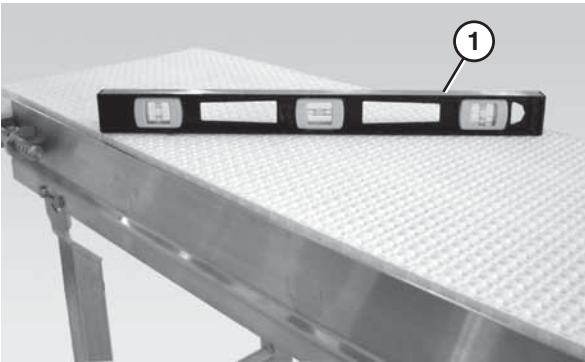


Figure 3

## Required Tools

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

## Recommended Installation Sequence

1. Attach the stands to the conveyor. Refer to “Stand Installation” on page 6.
2. Attach the tail assemblies to the frame. Refer to “Tail Assembly Installation” on page 7.
3. Attach the lifters, if applicable. Refer to “Lifter Installation” on page 11.
4. Install the gearmotor, if applicable. Refer to the “7400 Series Drive Package Installation, Maintenance and Parts Manual.”
5. Attach the wearstrips. Refer to “Wear Strip Installation” on page 11.
6. Install the belt. Refer to “Belt Installation” on page 12.
7. Attach the belt returns. Refer to “Belt Return Installation” on page 13.
8. Attach any guides / accessories. Refer to the "Service Parts" section starting on page 28.

## Conveyors up to 10 ft (3048 mm)

### Stand Installation

Typical Stand Components (Figure 4)

- |   |  |
|---|--|
| 1 | Conveyor frame                             |
| 2 | Stand                                      |
| 3 | M10 - 1.5 x 12 mm hex head cap screws (x4) |

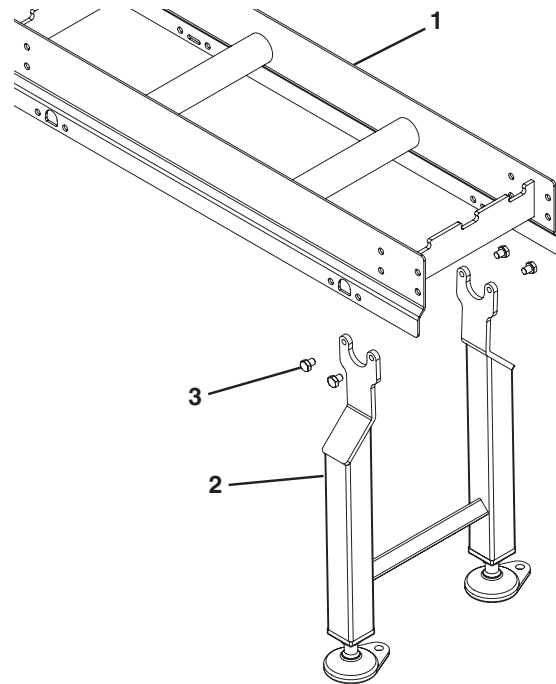


Figure 4

1. Position the stands on a flat, level surface.
2. Attach the stands to the frame (Figure 5).

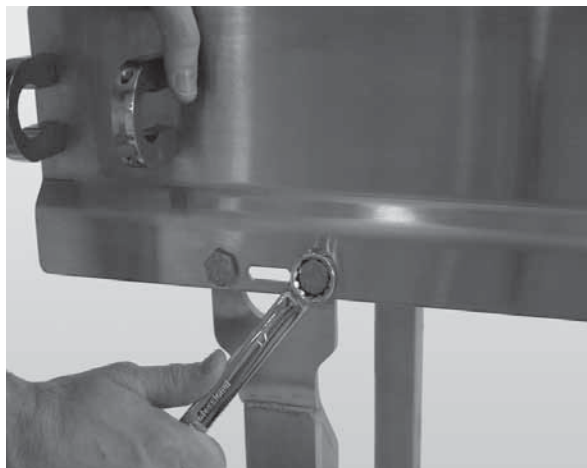


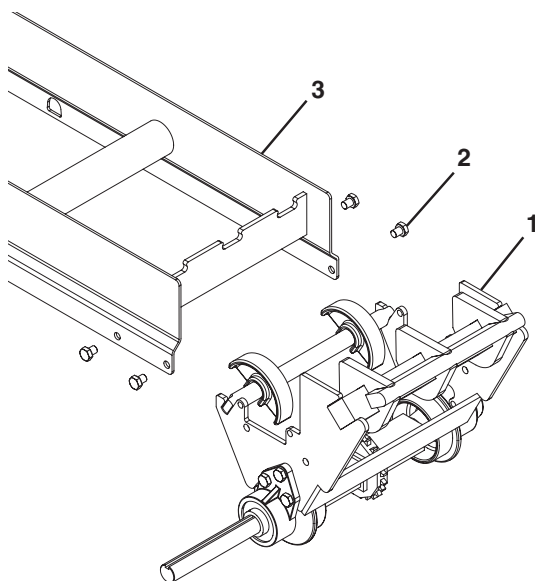
Figure 5

## Tail Assembly Installation

### Nose Bar Drive Tail

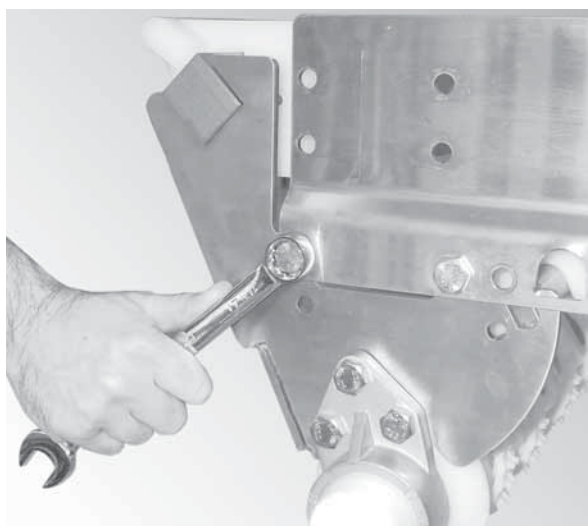
Typical Nose Bar Drive Tail Components (**Figure 6**)

- |   |   |
|---|---|
| 1 | Nose bar drive tail assembly              |
| 2 | M10 x 1.5 x 12mm hex head cap screws (x4) |
| 3 | Conveyor frame                            |



**Figure 6**

1. Bolt the nose bar drive tail assembly to the conveyor frame (**Figure 7**).



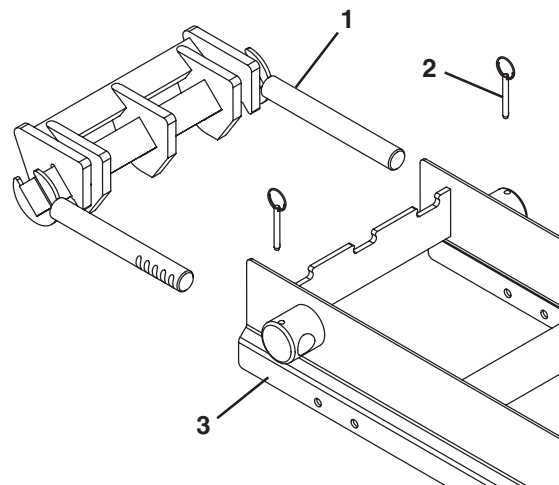
**Figure 7**

2. Install the drive package, if applicable. Refer to the "7400 Series Drive Package Installation, Maintenance and Parts Manual."

### Nose Bar Idler Tail

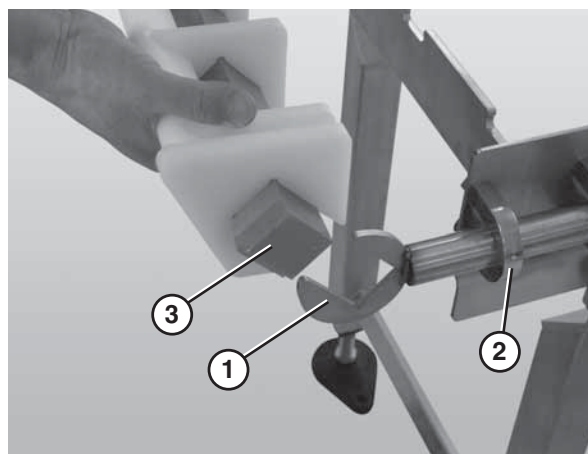
Typical Nose Bar Idler Tail Components (**Figure 8**)

- |   |                              |
|---|------------------------------|
| 1 | Nose bar idler tail assembly |
| 2 | Pull pin (x2)                |
| 3 | Conveyor frame               |



**Figure 8**

1. Slide the nose bar idler shaft hands (**Figure 9, item 1**) into the take up blocks (**Figure 9, item 2**).
2. Attach the nose bar transfer post (**Figure 9, item 3**) to the nose bar idler shaft hands.

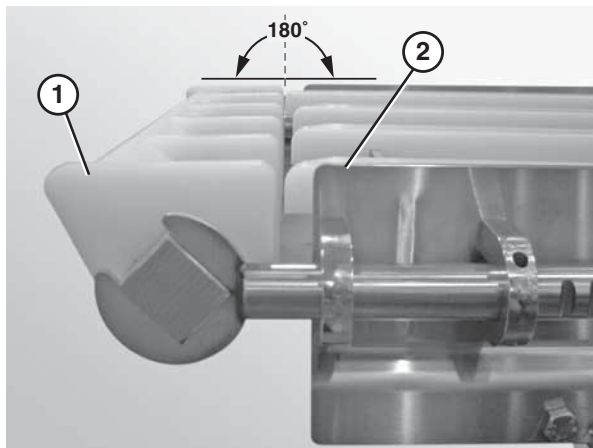


**Figure 9**

3. Ensure that the nose bar pucks (**Figure 10, item 1**) are in line with the conveyor frame (**Figure 10, item 2**).



# Installation



**Figure 10**

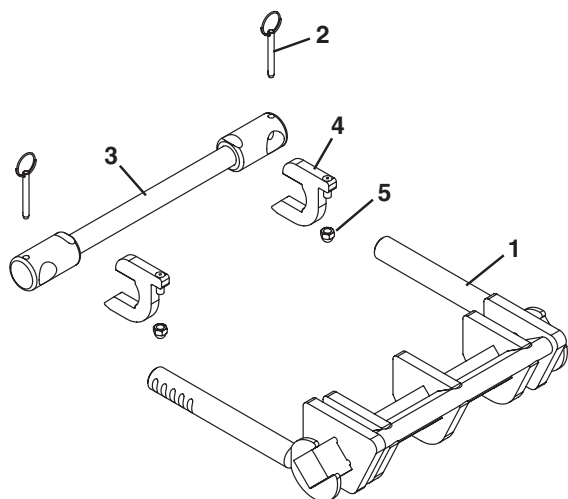
## NOTE

*Do not insert the pull pins on the tension end of the conveyor until the belt has been installed.*

### Nose Bar Tip Up Tail

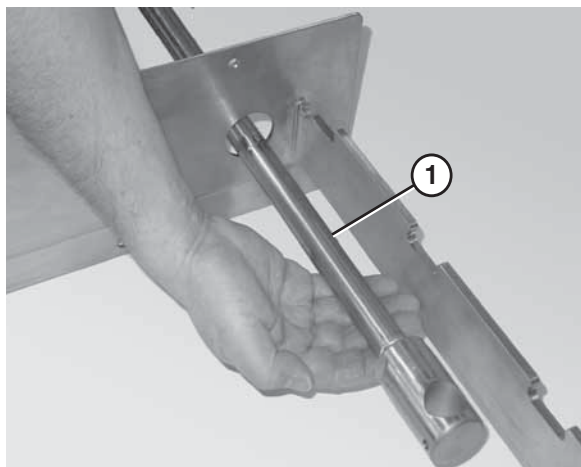
Typical Nose Bar Tip Up Tail Components (**Figure 11**)

- |   |                             |
|---|-----------------------------|
| 1 | Tip up tail assembly        |
| 2 | Pull pin (x2)               |
| 3 | Tip up shaft                |
| 4 | Key stops (x2)              |
| 5 | M10 - 1.5 mm acorn nut (x2) |



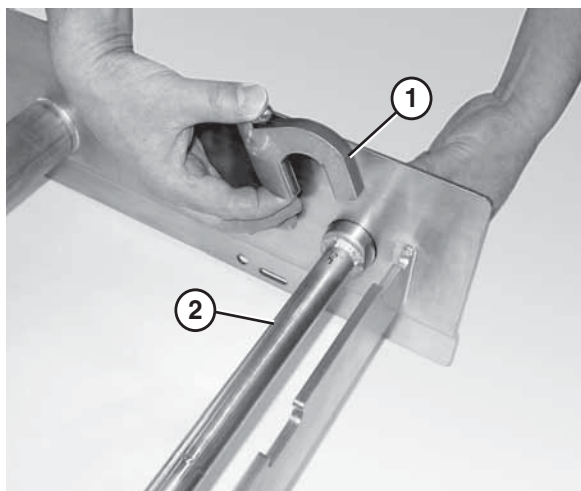
**Figure 11**

1. Slide the tip up shaft (**Figure 12, item 1**) through the designated slots in the frame.



**Figure 12**

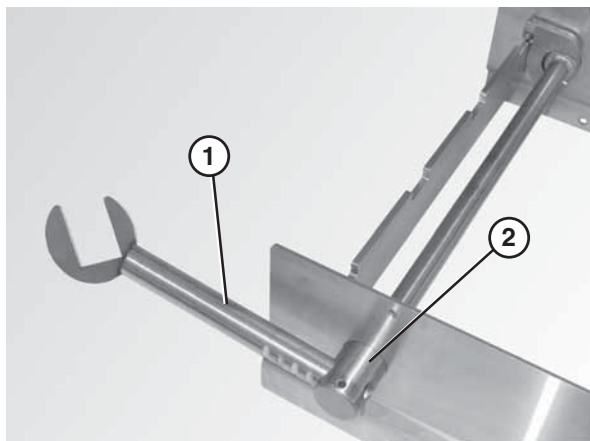
2. Attach the key stops (**Figure 13, item 1**) to the tip up shaft (**Figure 13, item 2**). The rounded end of the key stop should face the tail.



**Figure 13**

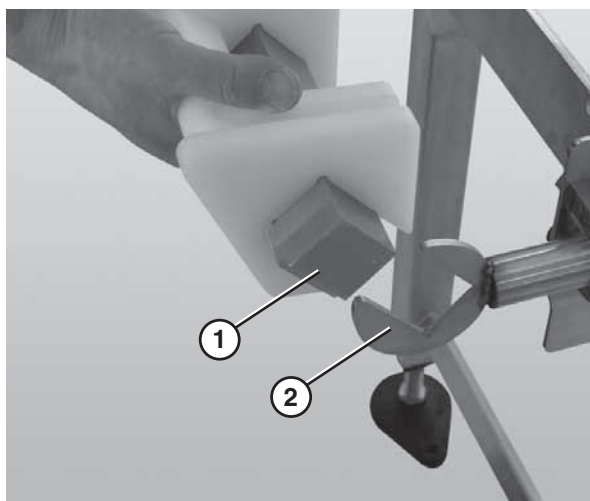
3. Attach the nose bar idler shaft hands (**Figure 14, item 1**) to the tip up shaft (**Figure 14, item 2**).





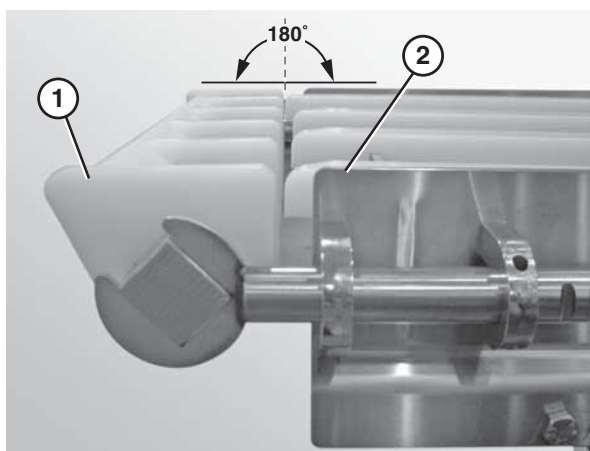
**Figure 14**

4. Attach the nose bar transfer post (**Figure 15, item 1**) to the nose bar idler shaft hands (**Figure 15, item 2**).



**Figure 15**

5. Ensure that the nose bar pucks (**Figure 16, item 1**) are in line with the conveyor frame (**Figure 16, item 2**).



**Figure 16**

## NOTE

*Do not insert the pull pins on the tension end of the conveyor until the belt has been installed.*

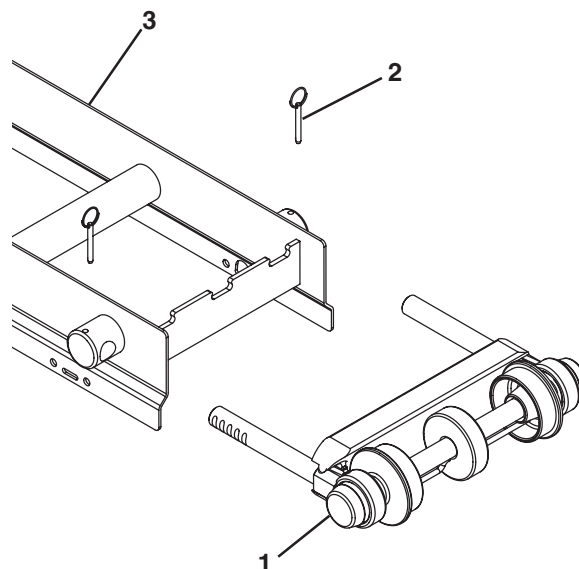
## NOTE

*Adjust the acorn nuts (**Figure 11, item 5**) on the key stops (**Figure 11, item 4**) to raise or lower the tip up tail assembly.*

### Idler Tail

Typical Idler Tail Components (**Figure 17**)

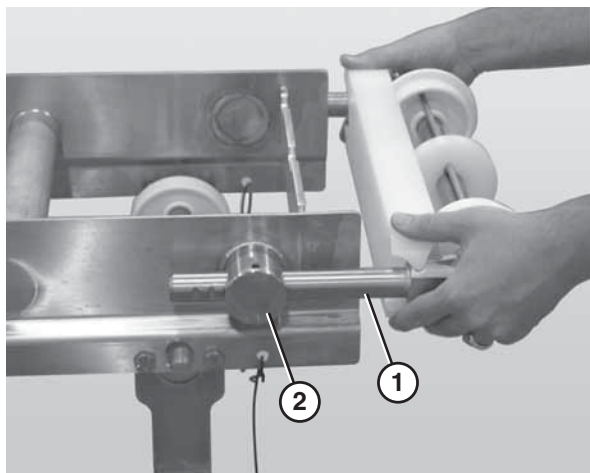
- |   |                     |
|---|---------------------|
| 1 | Idler tail assembly |
| 2 | Pull pin (x2)       |
| 3 | Conveyor frame      |



**Figure 17**

1. Slide the bearing shafts (**Figure 18, item 1**) into the take up blocks (**Figure 18, item 2**).

# Installation



**Figure 18**

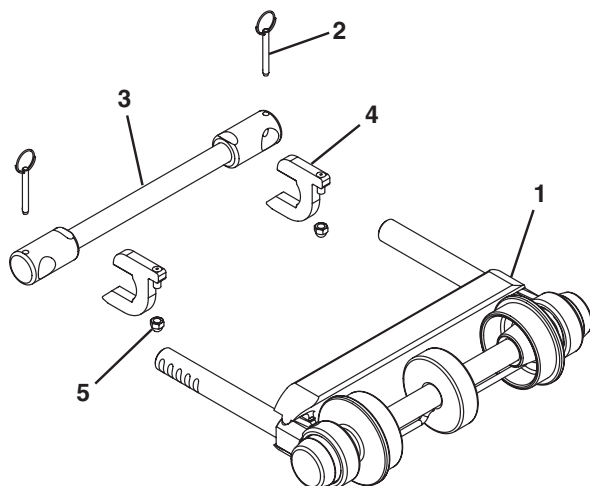
## NOTE

*Do not insert the pull pins on the tension end of the conveyor until the belt has been installed.*

### Tip Up Tail

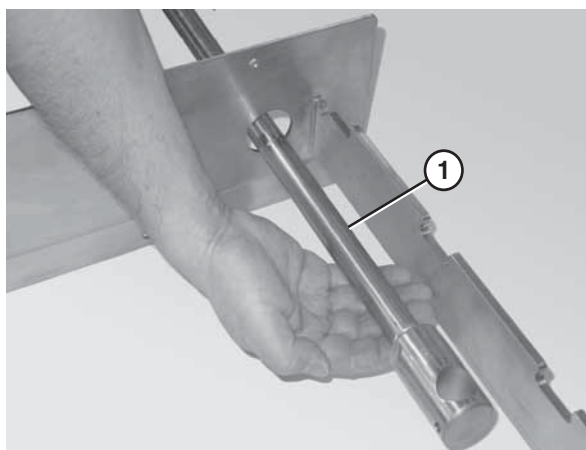
Typical Tip Up Tail Components (Figure 19)

- |   |                             |
|---|-----------------------------|
| 1 | Tip up tail assembly        |
| 2 | Pull pin (x2)               |
| 3 | Tip up shaft                |
| 4 | Key stops (x2)              |
| 5 | M10 - 1.5 mm acorn nut (x2) |



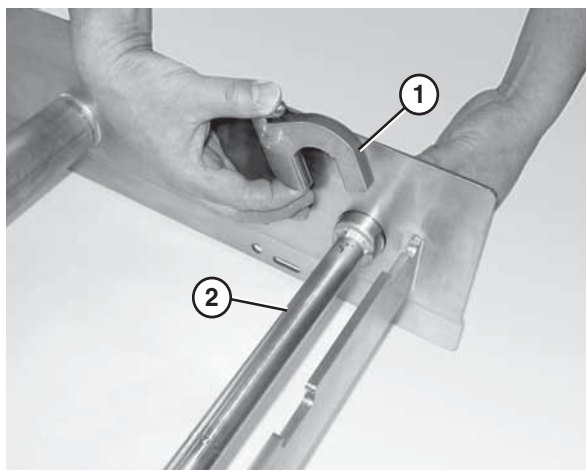
**Figure 19**

1. Slide the tip up shaft (Figure 20, item 1) through the designated slots in the frame.



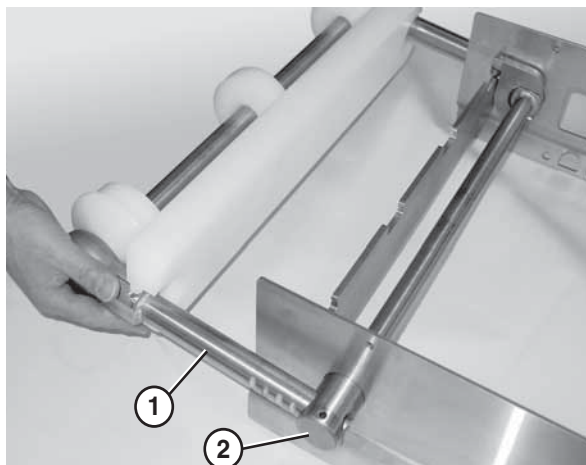
**Figure 20**

2. Attach the key stops (Figure 21, item 1) to the tip up shaft (Figure 21, item 2). The rounded end of the key stop should be facing the tail.



**Figure 21**

3. Slide the bearing shafts (Figure 22, item 1) into the holes in the tip up shaft (Figure 22, item 2).



**Figure 22**

## NOTE

*Do not insert the pull pins on the tension end of the conveyor until the belt has been installed.*

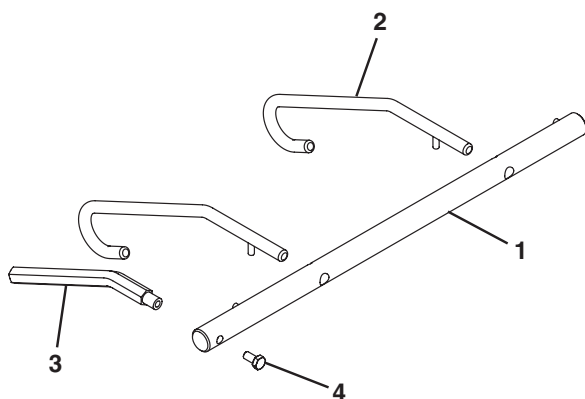
## NOTE

*Adjust the acorn nuts (Figure 19, item 5) on the key stops (Figure 19, item 4) to raise or lower the tip up tail assembly.*

## Lifter Installation

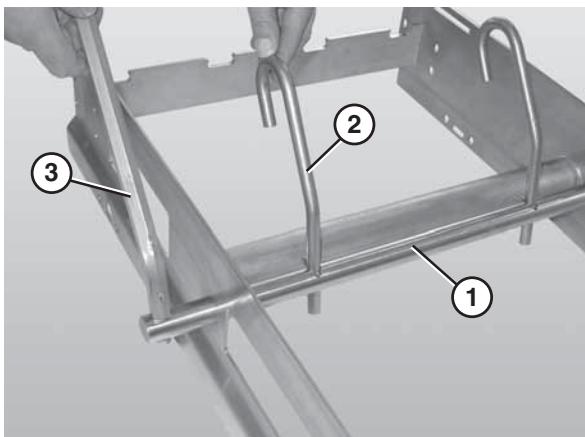
Typical Lifter Components (Figure 23)

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



**Figure 23**

1. Slide the belt lift pivot bar (Figure 24, item 1) through the designated holes in the frame.



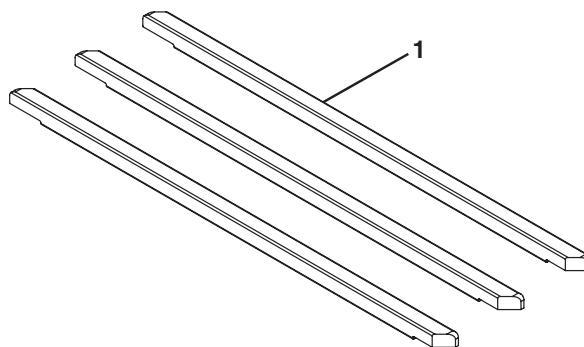
**Figure 24**

2. Attach the lifter bars (Figure 24, item 2) to the belt lift pivot bar (Figure 24, 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 24, item 3) to the belt lift pivot rod.

## Wear Strip Installation

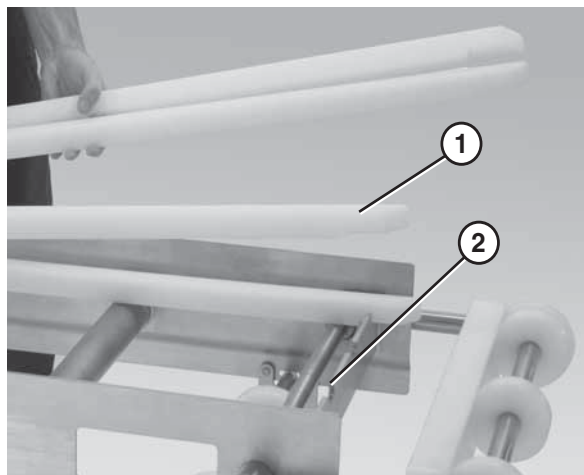
Typical Wear Strip Components (Figure 25)

- |   |            |
|---|------------|
| 1 | Wear strip |
|---|------------|



**Figure 25**

1. Position the wear strips (Figure 26, item 1) on the frame.



**Figure 26**

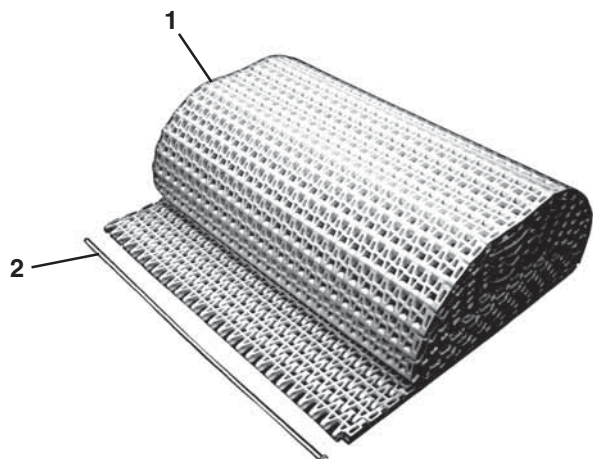
2. Make sure the wear strips are situated securely in the frame slots (Figure 26, item 2).

# Installation

## Belt Installation

Typical Belt Components (Figure 27)

1	Chain belt
2	Belt rod



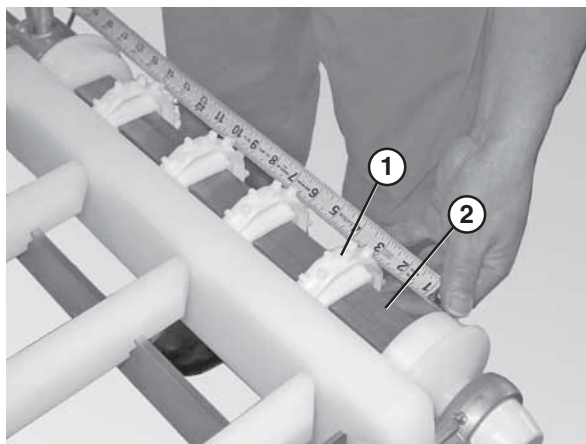
**Figure 27**

1. Position the belt on the conveyor frame (Figure 28).



**Figure 28**

2. Evenly space the sprockets (Figure 29, item 1) along the drive spindle (Figure 29, item 2).



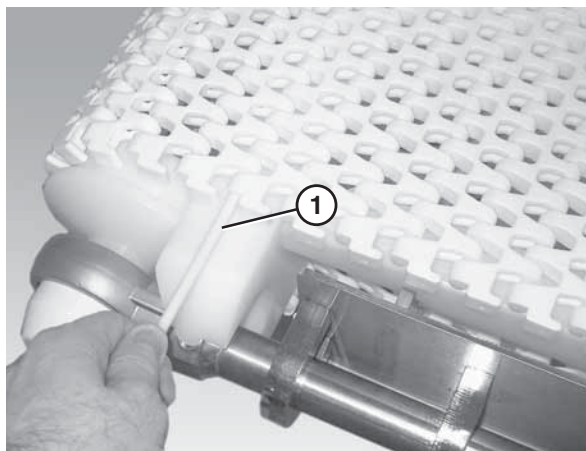
**Figure 29**

3. Wrap the belt around the conveyor, making sure the sprocket teeth (Figure 29, item 1) have engaged the belt.
4. Bring the ends of the belt together (Figure 30).



**Figure 30**

5. Insert the belt rod (Figure 31, item 1).

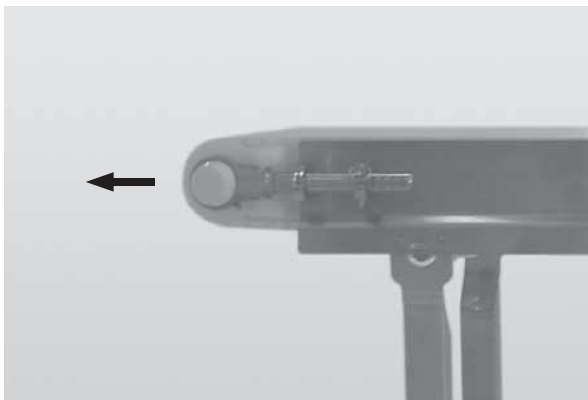


**Figure 31**

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

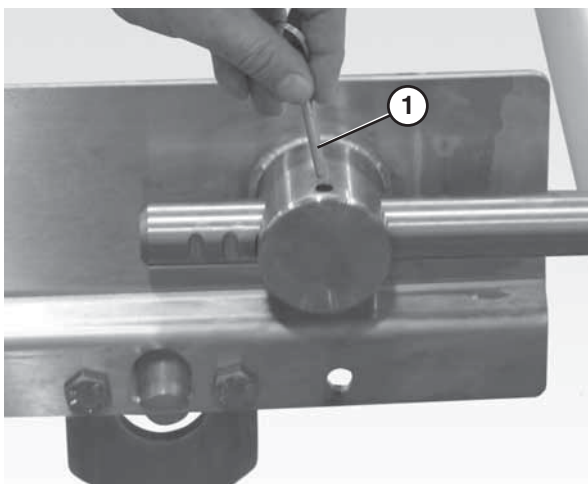


8. Extend the tension end to remove excess slack in the belt (**Figure 32**).



**Figure 32**

9. Insert the pull pins (**Figure 33, item 1**) on the tension end of the conveyor.



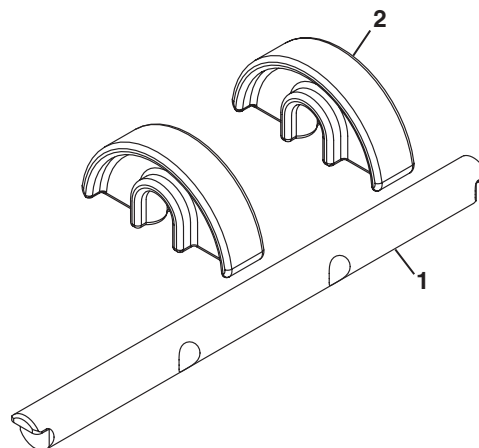
**Figure 33**

10. If no more travel is available, remove one or more belt links to take up the tension. Refer to “Standard Belts: Replacing a Section of Belt” on page 18.

## Belt Return Installation

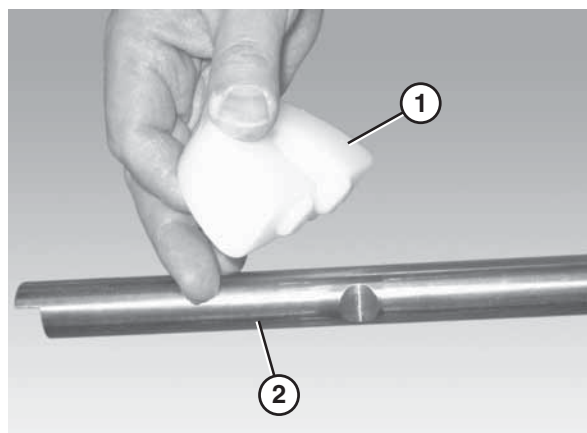
Typical Belt Return Components (**Figure 34**)

- |   |                   |
|---|-------------------|
| 1 | Return shaft      |
| 2 | Chain return shoe |



**Figure 34**

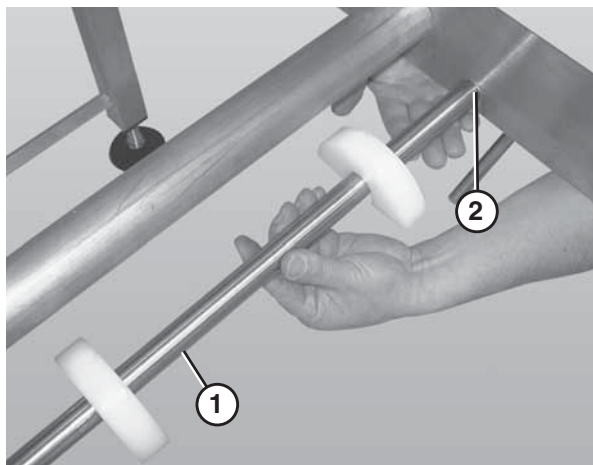
1. Attach the chain return shoes (**Figure 35, item 1**) to the return shaft (**Figure 35, item 2**).



**Figure 35**

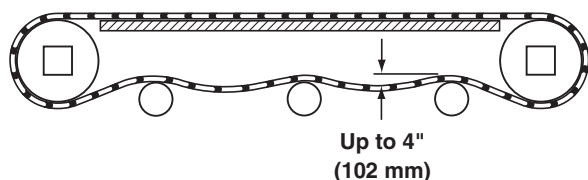
2. Slide the return shaft (**Figure 36, item 1**) up and through the large slot (**Figure 36, item 2**) in the frame (picture shown without the belt or wear strips).

# Installation



**Figure 36**

3. Push up on the return shaft (**Figure 36, 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 37**). Belt sag should not exceed 4" (102 mm). Follow steps 7 – 9 in the “Belt Installation” section on page 12 to remove slack from the belt.



**Figure 37**

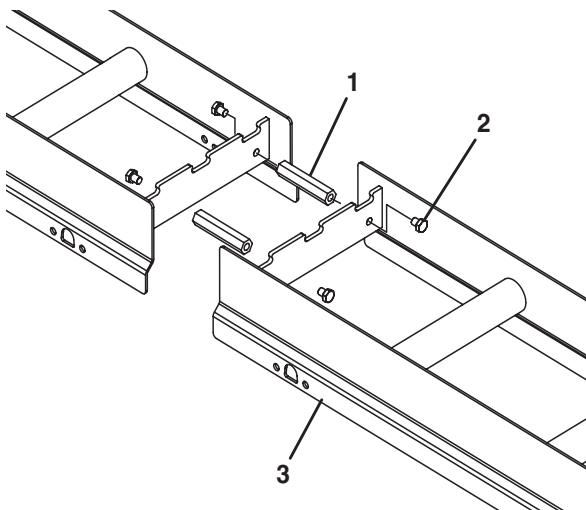
## CAUTION

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

## Conveyors Longer than 10 ft (3048 mm)

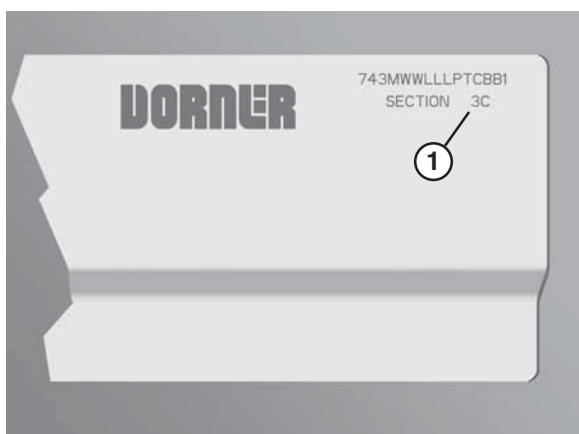
Typical Connection Components (**Figure 38**)

- |   |                                       |
|---|---------------------------------------|
| 1 | M10 x 1.5 mm hex head cap screws (x4) |
| 2 | Connector hex rods (x2)               |
| 3 | Conveyor frames                       |



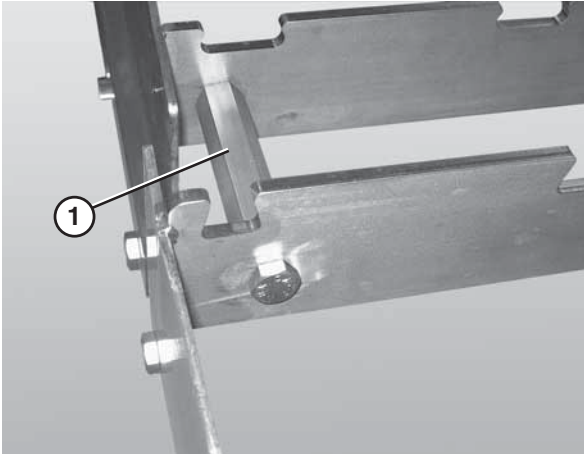
**Figure 38**

1. Locate the section number sequence etched on each section of frame (**Figure 39, item 1**)



**Figure 39**

2. Position the frame sections in the correct order.
3. Connect the frame sections by bolting the hex post connectors (**Figure 40, item 1**) the sections of frame.



**Figure 40**

4. Follow the installation process described in “Conveyors up to 10 ft (3048 mm)” starting on page 6.



# Preventive Maintenance and Adjustment

## 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 28 for recommendations.
- Replace any worn or damaged parts.

## Cleaning

### CAUTION

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

### WARNING



### SEVERE HAZARD!

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

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

1. Remove the guides, if applicable, by removing the pull pins (Figure 46, item 1) that connect the guide (Figure 46, item 2) to the frame.

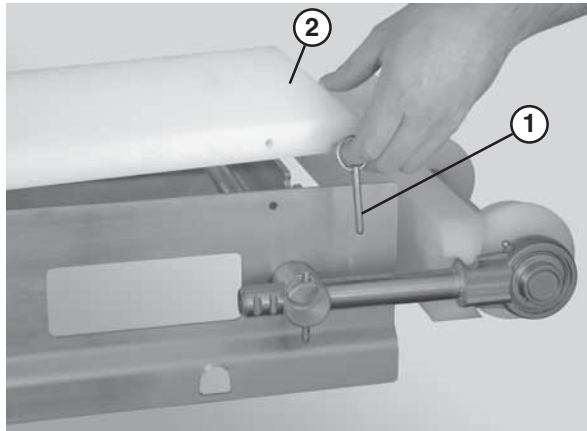


Figure 41

2. Remove the pull pin (Figure 42, item 1) on the tension end of the conveyor to release belt tension.

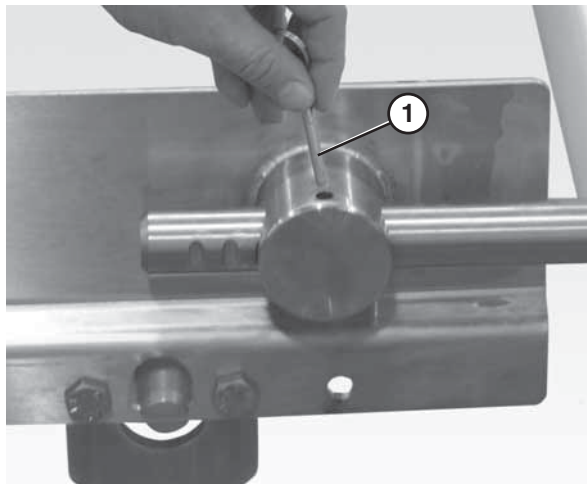


Figure 42

3. Lift up on the belt (Figure 43).

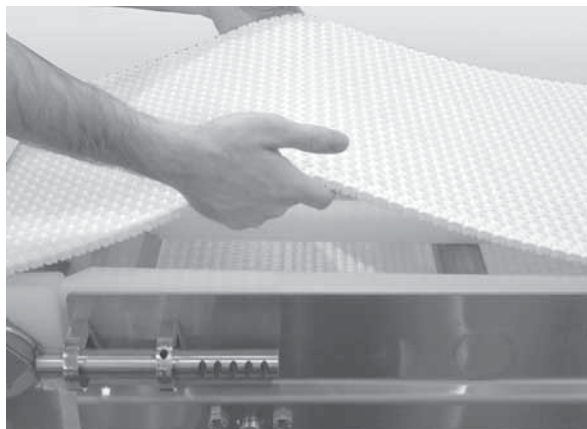


Figure 43

# Preventive Maintenance and Adjustment

## Conveyors with Tip Up Tails and Lifters

1. Remove the guides, if applicable, by removing the pull pins (**Figure 46, item 1**) that connect the guide (**Figure 46, item 2**) to the frame.
2. Use the lifter handle (**Figure 44, item 1**) to raise the lifters (**Figure 44, item 2**) and raise the tip up tail (**Figure 44, item 3**).

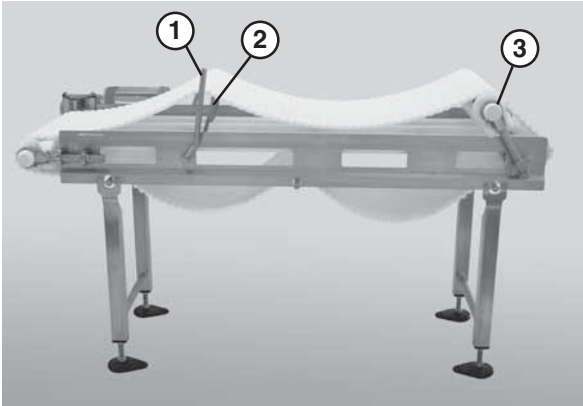


Figure 44

### CAUTION

**DO 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 21.
- Refer to “Reassembling Tail Assemblies” on page 24.

## 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 re-greasing will increase with the frequency of conveyor washing.*

1. Add grease to the bearing using the zerk fitting (**Figure 45, item 1**) on the exterior of the bearing shaft assembly.



Figure 45

2. Replace the bearings if they become worn.

## Wearstrips and Belt Returns

Replace the wearstrips and belt returns if they become worn.

For wearstrip and belt return installation instructions:

- Refer to “Wear Strip Installation” on page 11.
- Refer to “Belt Return Installation” on page 13.

## Maintaining the Conveyor Belt

### Troubleshooting

### NOTE

*Visit [www.dorner.com](http://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

# Preventive Maintenance and Adjustment

Damage to belt links or rods indicate:

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

## Conveyor Belt Replacement

### WARNING

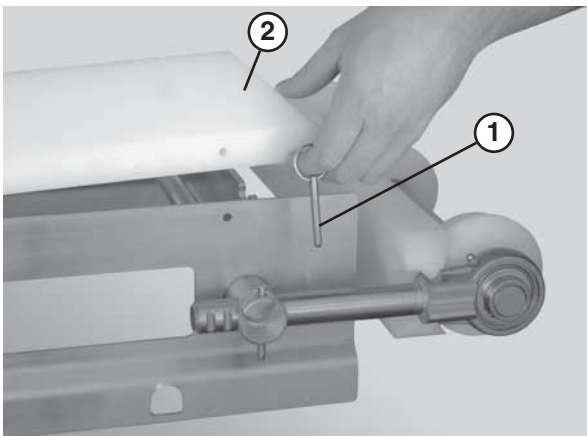


#### **SEVERE HAZARD!**

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

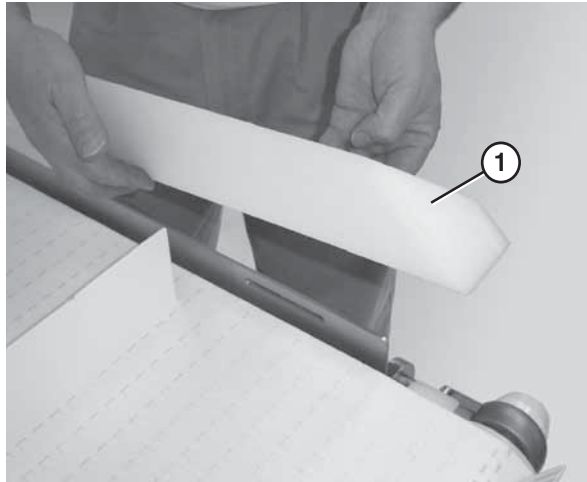
## Conveyors with Guides

1. Remove the pull pins (**Figure 46, item 1**) that connect the guide (**Figure 46, item 2**) to the frame.



**Figure 46**

2. Remove the guide (**Figure 47, item 1**).



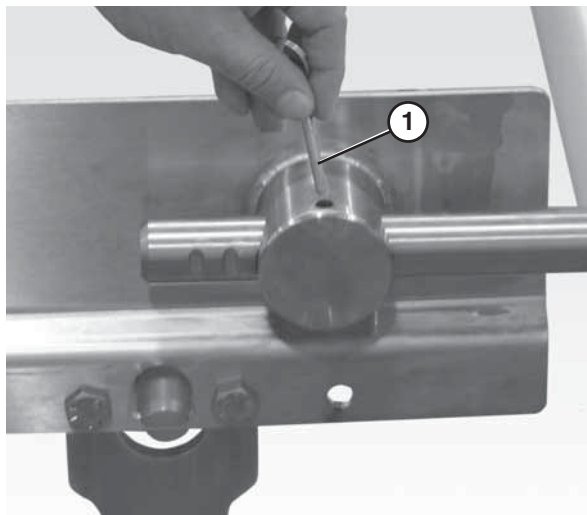
**Figure 47**

3. Follow the belt replacement procedures described in “Standard Belts” on page 18 or “Specialty Intralox 1100 Series Belts” on page 19.

## Standard Belts

### Replacing a Section of Belt

1. Remove the pull pins (**Figure 48, item 1**) on the tension end of the conveyor to release tension on the belt.



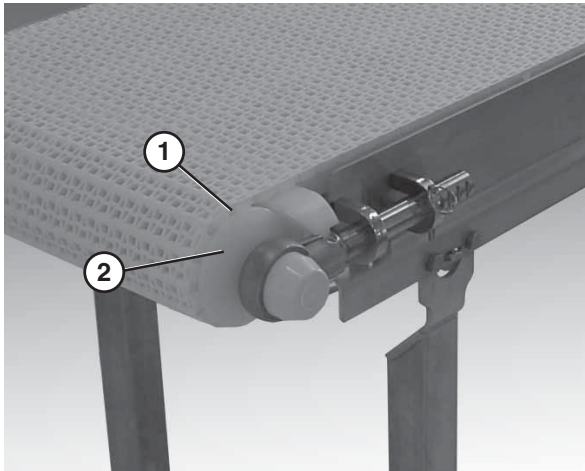
**Figure 48**

### **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 (**Figure 49, item 1**) side of the belt by bracing it against the flanged puck (**Figure 49, item 2**).

# Preventive Maintenance and Adjustment



**Figure 49**

3. Use a punch and hammer to push the belt rod out by striking the rod end opposite the retaining head (**Figure 50**).



**Figure 50**

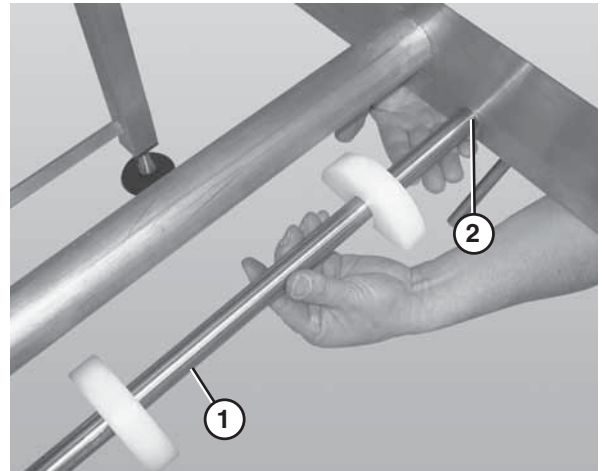
4. Remove the belt rods on both sides of the section of belt being replaced.
5. Replace the old section with a new section of belt.

## 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 51, item 1**) and sliding it through the large hole (**Figure 51, item 2**) in the frame.



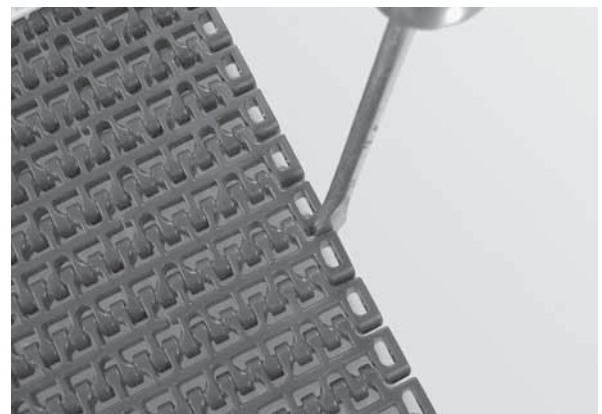
**Figure 51**

2. Lower the opposite end of the return shaft (**Figure 51, item 1**) and slide it out of the frame.
3. 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 12 and "Belt Return Installation" on page 13.

## Specialty Intralox 1100 Series Belts

### Replacing a Section of Belt

1. Place the edge of a flat head screwdriver between the two belt links and turn clockwise (**Figure 52**).

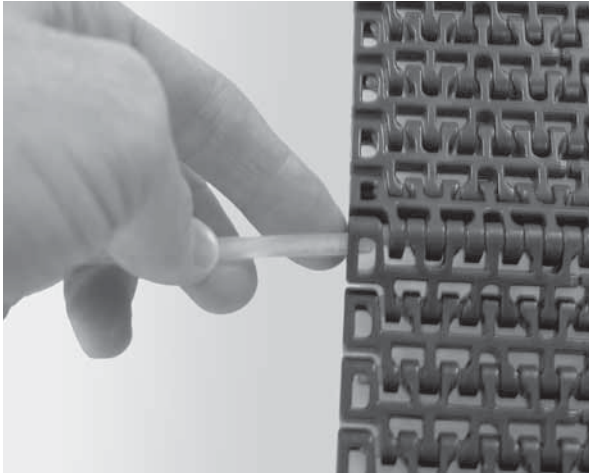


**Figure 52**

2. Use a second belt rod of the same size to push on the opposite end of the belt rod. (**Figure 53**).



# Preventive Maintenance and Adjustment



**Figure 53**

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.
2. Follow steps 1 – 2 in "Specialty Intralox 1100 Series Belts: Replacing a Section of Belt" on page 19.
3. Remove the belt.
4. Replace the damaged or worn belt. Refer to "Belt Installation" on page 12 and "Belt Return Installation" on page 13.

### Conveyor Belt Tensioning

## ⚠ WARNING



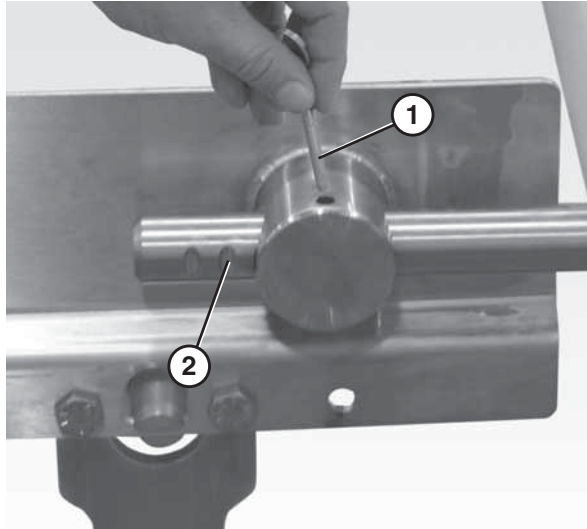
## SEVERE HAZARD!

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

## CAUTION

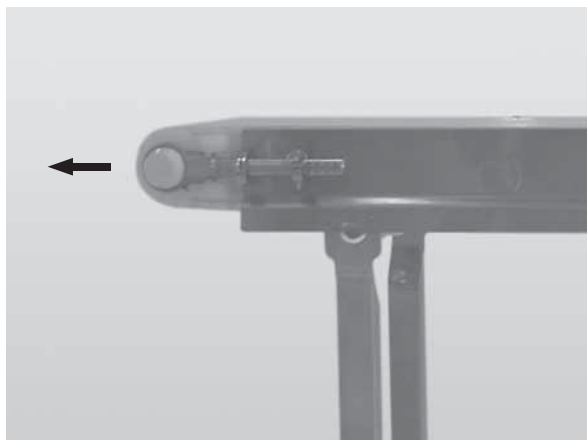
**Belt sag should not exceed 4" (102 mm) from the top of the returns.**

1. Remove both pull pins (**Figure 54, item 1**) on the tension end of the conveyor.



**Figure 54**

2. Extend the idler tail to the next groove (**Figure 54, item 2**) on the bearing shaft.
3. Continue extending the tension end until the belt is sufficiently tight (**Figure 55**).



**Figure 55**

4. Reinsert the pull pins.
5. If no more travel is available, remove one or more belt links to take up the tension. Refer to "Replacing a Section of Belt" on page 18.

# Preventive Maintenance and Adjustment

## Sprocket and Puck Removal

### WARNING



#### **SEVERE HAZARD!**

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

1. Remove the conveyor belt to access the sprockets / pucks. Refer to “Conveyor Belt Replacement” starting on page 16.
2. Remove the desired sprocket / puck by following these instructions:
  - A - Drive Sprocket Removal
  - B - Nose Bar Puck Removal
  - B - Idler Puck Removal

### A - Drive Sprocket Removal

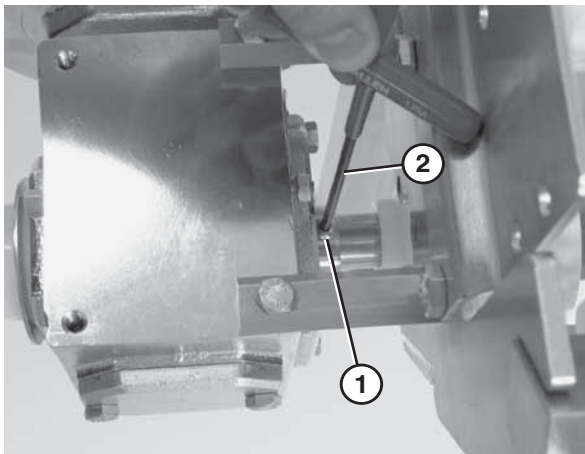
### WARNING



#### **PUNCTURE HAZARD!**

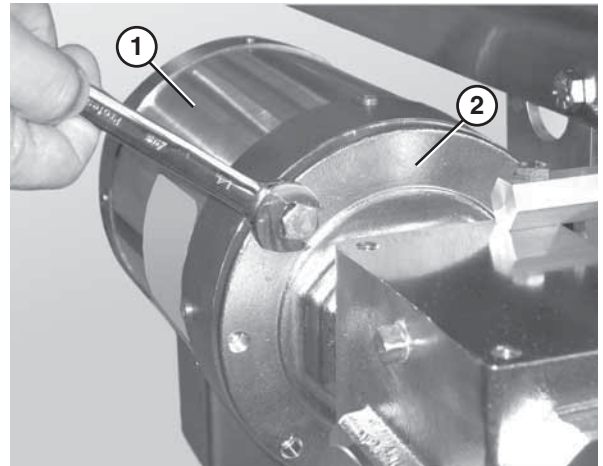
**Handle drive shaft keyway with care. It may be sharp and could puncture the skin, causing serious injury.**

1. Loosen the fasteners (**Figure 56, item 1**) that connect the gearmotor to the drive spindle using a hex wrench (**Figure 56, item 2**).



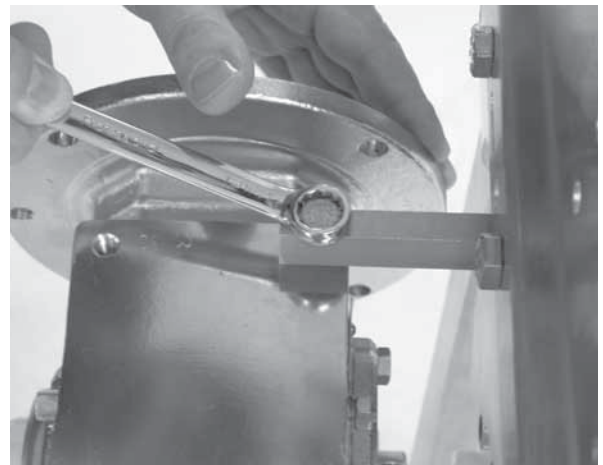
**Figure 56**

2. Remove the bolts that connect the motor to the drive assembly (**Figure 57**).
3. Remove the motor (**Figure 57, item 1**) from the drive assembly (**Figure 57, item 2**).



**Figure 57**

4. Unbolt the drive assembly and slide it off the bearing spindle (**Figure 58**).



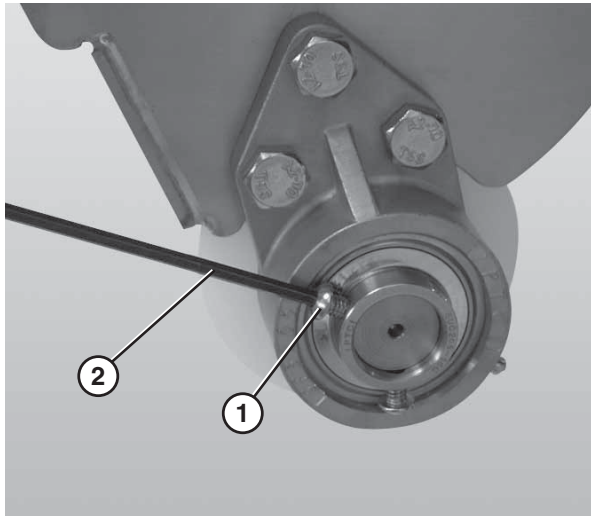
**Figure 58**

5. Remove the bearing cover.
6. Loosen the 3 hole flange (**Figure 59, item 1**) with bearing fasteners using a hex wrench (**Figure 59, item 2**).

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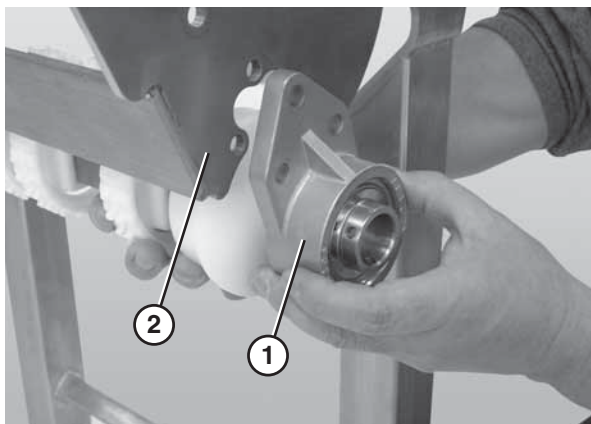
# Preventive Maintenance and Adjustment

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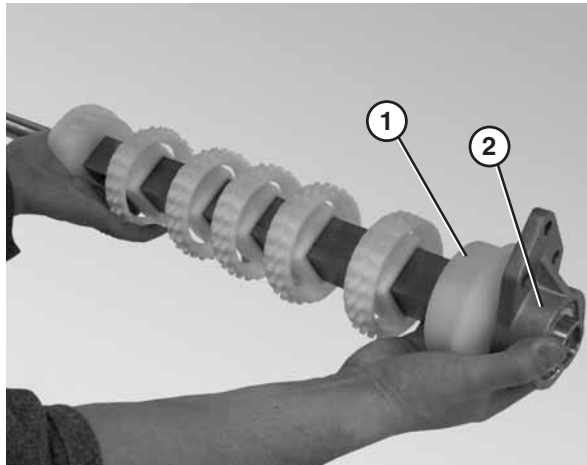
**Figure 59**

7. Disconnect the 3 hole flange bearing (**Figure 60, item 1**) from the nose bar drive weldment (**Figure 60, item 2**).



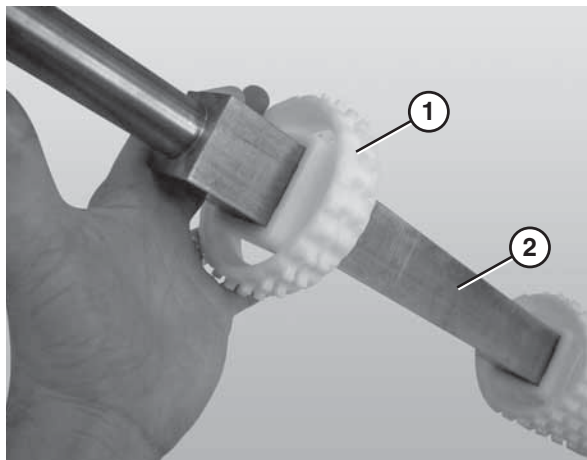
**Figure 60**

8. Lower the entire drive assembly.
9. Slide the 3 hole flange with bearing (**Figure 61, item 1**) and flanged puck (**Figure 61, item 2**) off the drive spindle.



**Figure 61**

10. Slide the sprockets (**Figure 62, item 1**) off the drive spindle (**Figure 62, item 2**).



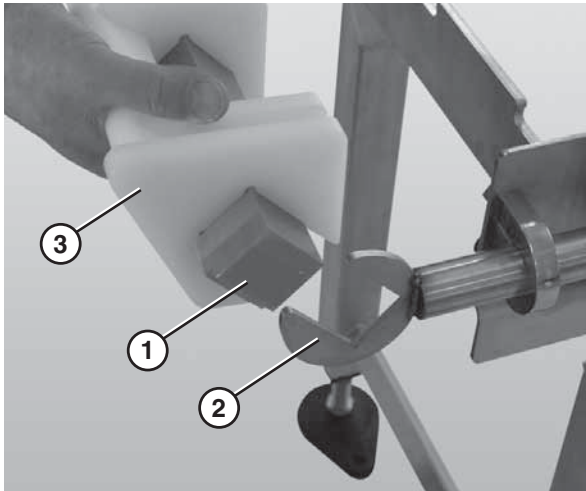
**Figure 62**



# Preventive Maintenance and Adjustment

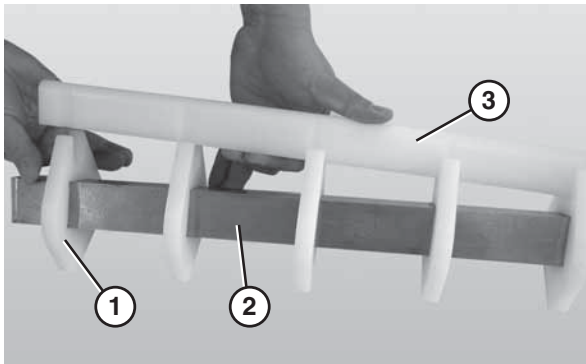
## B - Nose Bar Puck Removal

1. Slide the nose bar drive or transfer post (**Figure 63, item 1**) out of the nose bar drive weldment or idler hands (**Figure 63, item 2**).



**Figure 63**

2. Remove the nose bar tracking pucks (**Figure 63, item 3**), if applicable.
3. Remove the nose bar wear strip (**Figure 64, item 3**).

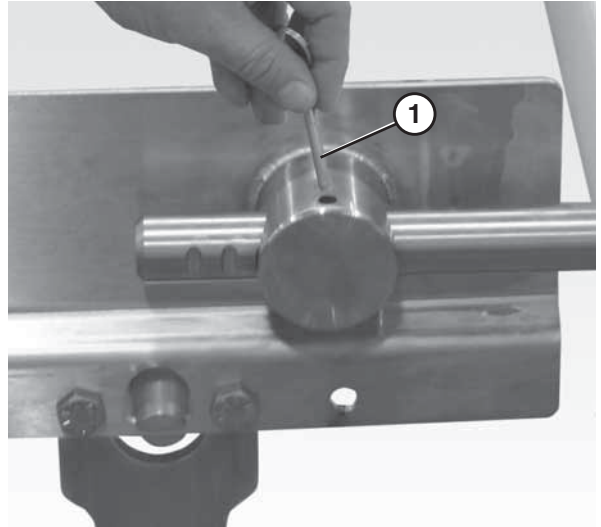


**Figure 64**

4. Slide the nose bar pucks (**Figure 64, item 1**) off the nose bar shaft (**Figure 64, item 2**).

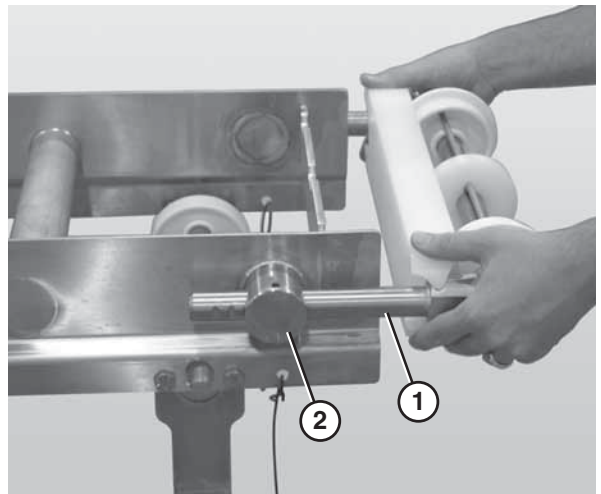
## C - Idler Puck Removal

1. Remove the pull pins (**Figure 65, item 1**).



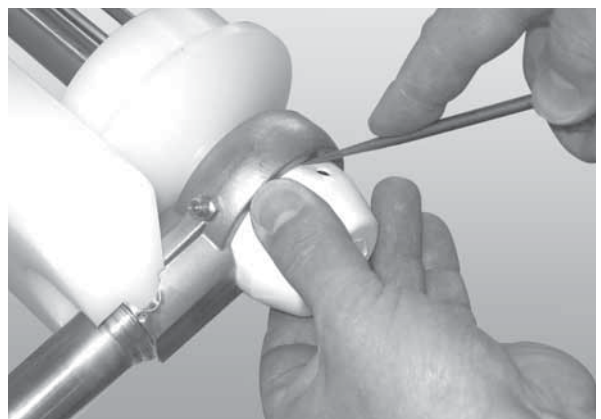
**Figure 65**

2. Slide the idler tail assembly (**Figure 66, item 1**) out of the take up blocks (**Figure 66, item 2**).



**Figure 66**

3. Remove the bearing cover (**Figure 67, item 1**).



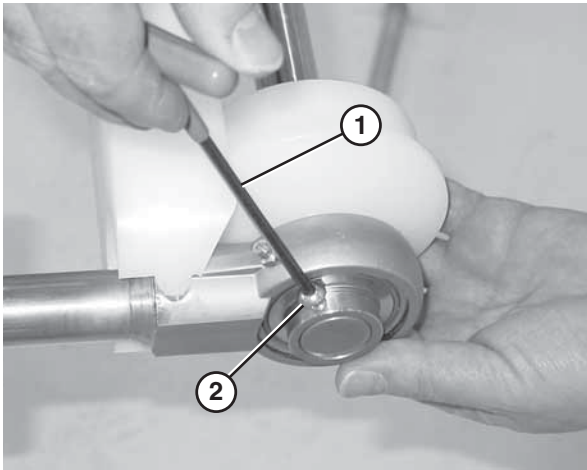
**Figure 67**

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# Preventive Maintenance and Adjustment

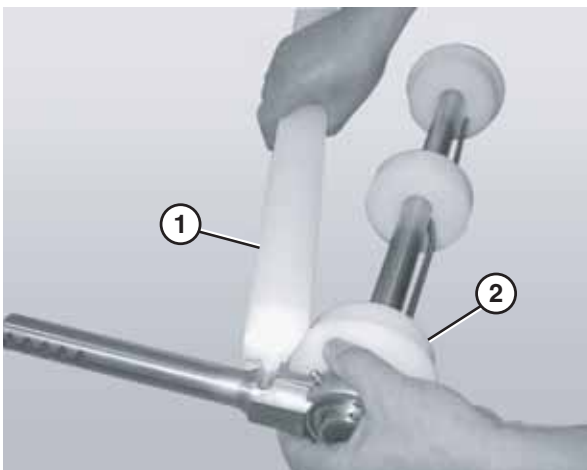
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4. Use a hex wrench (**Figure 68, item 1**) to loosen the bearing shaft assembly fasteners (**Figure 68, item 2**).



**Figure 68**

5. Slide the bearing shaft assembly (**Figure 69, item 2**) off the idler shaft.



**Figure 69**

6. Remove the guard bar (**Figure 69, item 3**).
7. Slide the pucks (**Figure 69, item 1**) off the idler shaft.

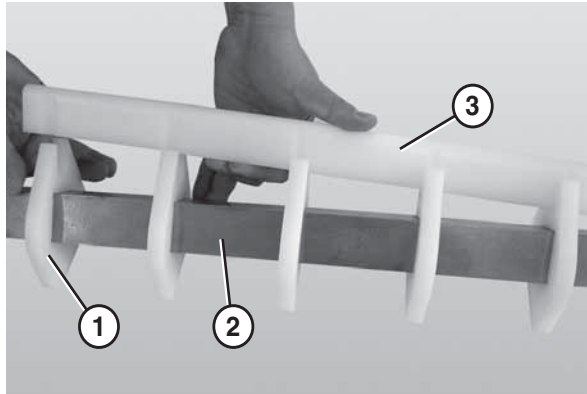
## Reassembling Tail Assemblies

Refer to the "Service Parts" section starting on page 28 for complete diagrams and lists of all tail assembly components.

### Nose Bar Drive Tail

#### Nose Bar Assembly

1. Slide the nose bar pucks (**Figure 70, item 1**) onto the nose bar drive post (**Figure 70, item 2**).

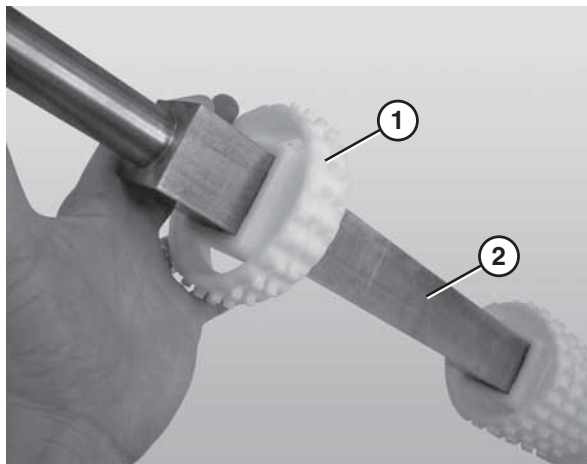


**Figure 70**

2. Attach the nose bar wear strip (**Figure 70, item 3**).

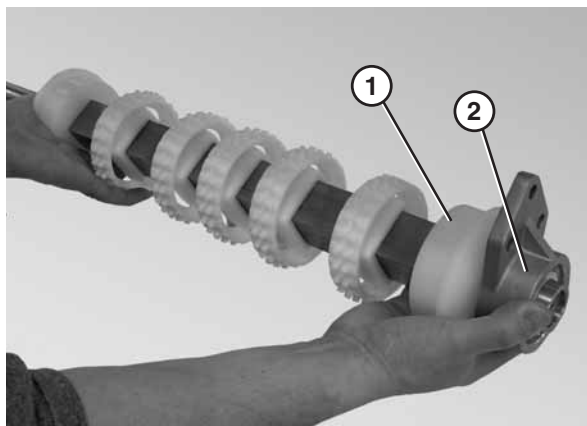
#### Drive Tail Assembly

1. Slide the sprockets (**Figure 71, item 1**) onto the drive spindle (**Figure 71, item 2**).



**Figure 71**

2. Attach the flanged pucks (**Figure 72, item 1**) and the 3 hole flange with bearing (**Figure 72, item 2**) to the drive spindle.



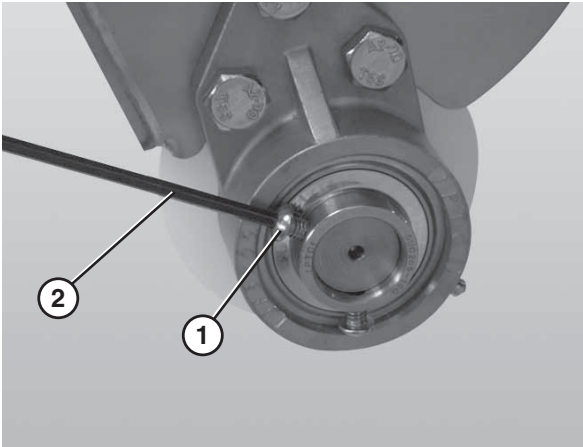
**Figure 72**

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# Preventive Maintenance and Adjustment

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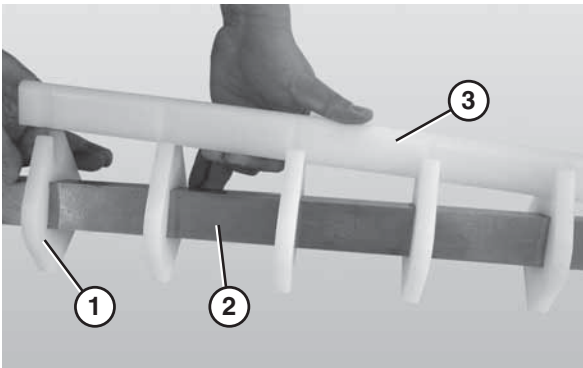
3. Tighten the 3 hole flange with bearing fasteners (**Figure 73, item 1**) using a hex wrench (**Figure 73, item 2**).



**Figure 73**

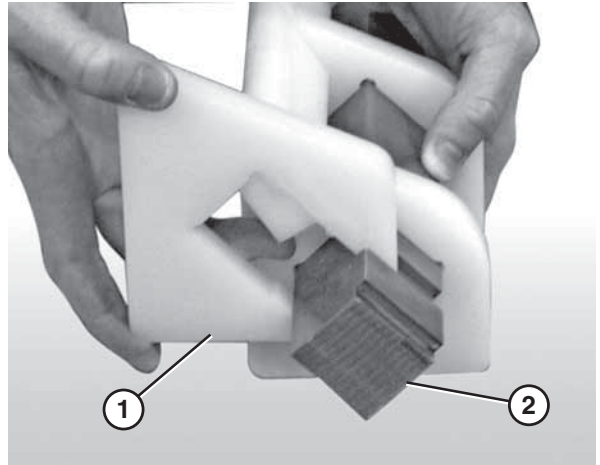
## Nose Bar Idler and Tip Up Tail

1. Slide the nose bar pucks (**Figure 70, item 1**) onto the nose bar drive post (**Figure 70, item 2**).



**Figure 74**

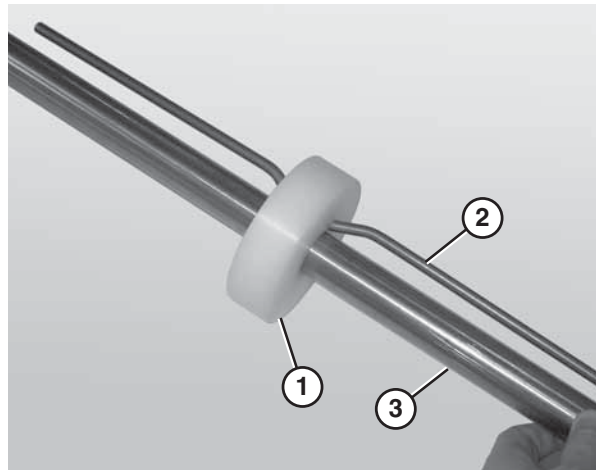
2. Attach the nose bar wear strip (**Figure 70, item 3**).
3. Attach the nose bar tracking pucks (**Figure 75, item 1**) to the nose bar drive post (**Figure 75, item 2**).



**Figure 75**

## Idler Tail and Tip Up Tail

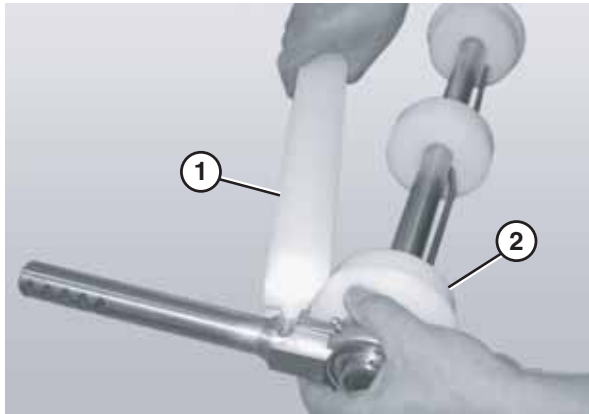
1. Place the idler puck (**Figure 76, item 1**) at the center of the bent retaining bar (**Figure 76, item 2**).
2. Slide the idler puck onto the idler shaft (**Figure 76, item 3**). Make sure to center the idler puck.



**Figure 76**

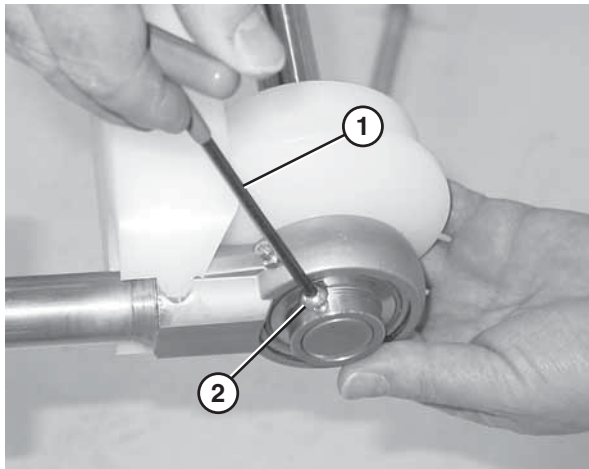
3. Attach the flanged pucks (**Figure 77, item 2**) and bearing shaft assemblies to the idler shaft.
4. Attach the guard bar (**Figure 77, item 1**).

# Preventive Maintenance and Adjustment



**Figure 77**

5. Use a hex wrench (**Figure 78, item 1**) to tighten the bearing shaft fasteners (**Figure 78, item 2**).

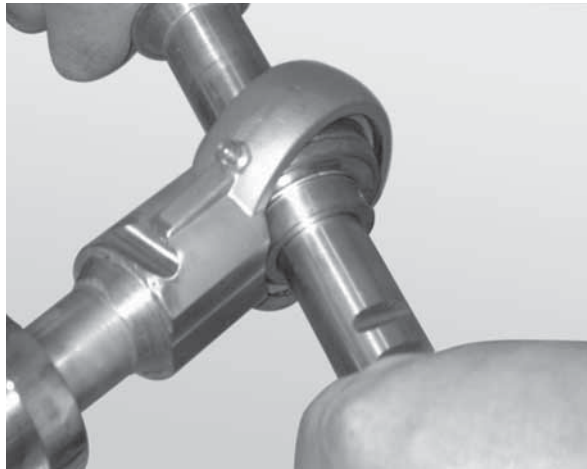


**Figure 78**

6. Attach the bearing covers.

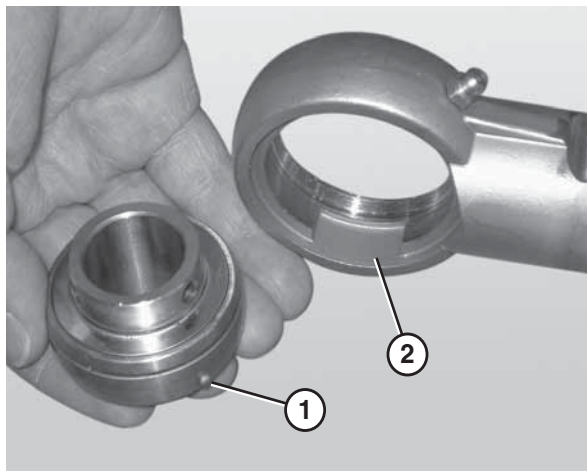
## Bearing Replacement

1. Secure the bearing shaft in the take up blocks.
2. Insert the rod end of a second bearing shaft through the bearing (**Figure 79**).



**Figure 79**

3. Apply lateral pressure to the rod until the bearing comes loose.
4. Remove the worn or damaged bearing (**Figure 80**).



**Figure 80**

5. Replace the bearing.


### NOTE

*When inserting the new bearing, make sure the anti-rotation notch (**Figure 80, item 1**) on the bearing lines up with the groove inside the housing (**Figure 80, item 2**).*

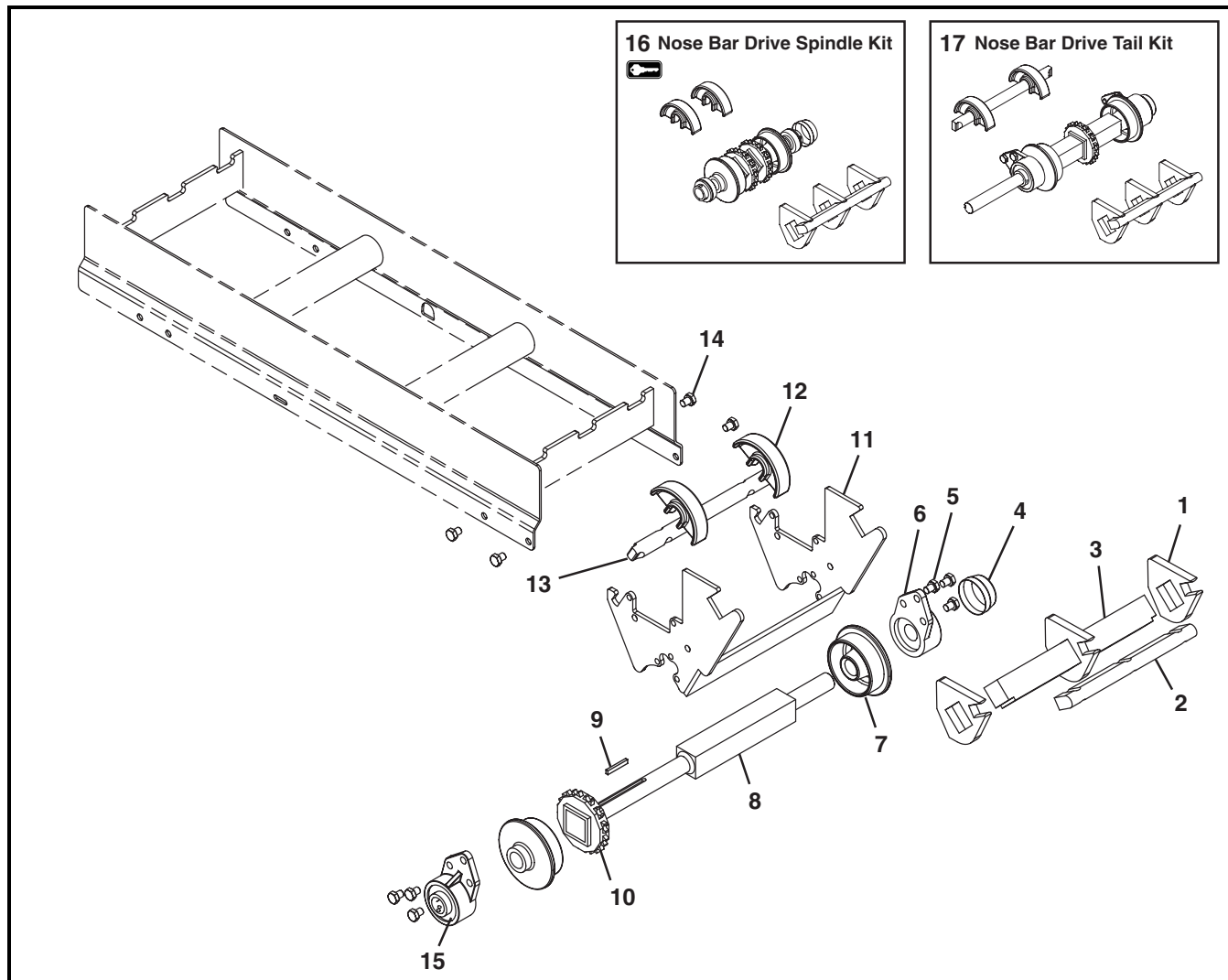


# Service Parts

## 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.

## Nose Bar Drive End Components



Item	Part Number	Description
1	500278	Nose Bar Puck
2	5055WW	.5" Pitch Nose Bar Wear Strip
	5057WW	1" Pitch Nose Bar Wear Strip
3	5038WW	Nose Bar Drive Post
4	807-1454	Cover
5	961016MSS	Hex Head Cap Screw M10-1.5x16mm
6	802-163	3 Hole Flange with Bearing
7	5017WW	Flange Puck for Standard Belt
	5071WW	Flange Puck for Specialty Intralox Belt

Item	Part Number	Description
8	5015WW	Drive Spindle for Standard Belt
	5070WW	Drive Spindle for Specialty Intralox Belt
9	912-111SS	Square Key .25" x 2.50"
10	807-1443	Sprocket for Standard .50" Pitch Belt
	807-1444	Sprocket for Standard 1.00" Pitch Belt
	807-1446	Sprocket for Specialty Intralox .60" Pitch Belt
	807-1445	Sprocket for Specialty Intralox 1.00" Pitch Belt



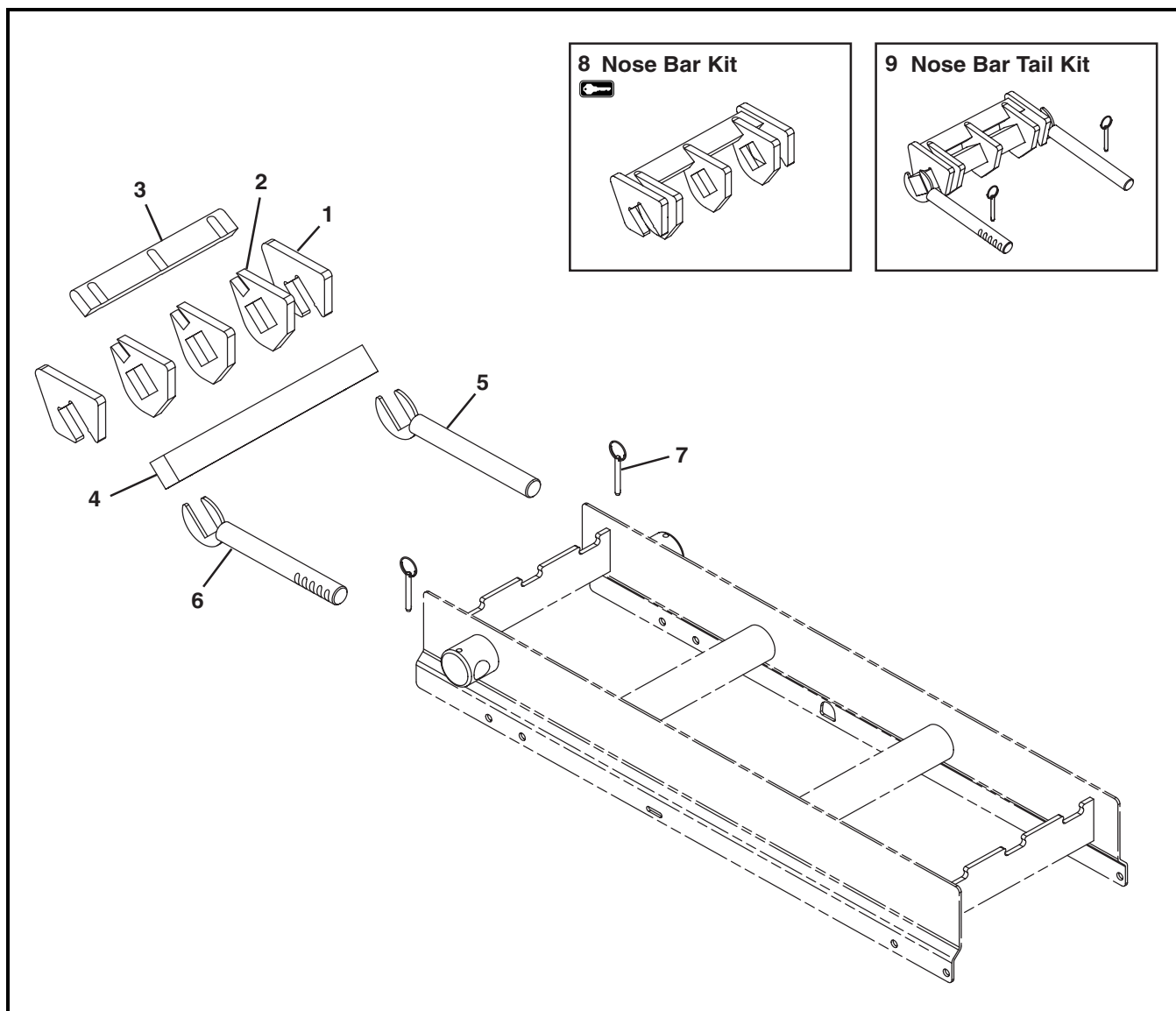
Item	Part Number	Description
11	5060 <u>WW</u>	Nose Bar Drive Weldment
12	500075	Chain Return
13	5032 <u>WW</u>	Return Shaft
14	961012MSS	Hex Head Cap Screw M10-1.5x12mm
15	802-162	Bearing
16	74NBD12- <u>WW</u>	Nose Bar Drive Spindle Kit for Standard .50" Pitch Belt (Includes Items 1, 2, 4, 7, 10, 12 and 15)
	74NBD25- <u>WW</u>	Nose Bar Drive Spindle Kit for Standard 1.00" Pitch Belt (Includes Items 1, 2, 4, 7, 10, 12 and 15)
	74NBD11- <u>WW</u>	Nose Bar Drive Spindle Kit for Specialty Intralox .60" Pitch Belt (Includes Items 1, 2, 4, 7, 10, 12 and 15)
	74NBD16- <u>WW</u>	Nose Bar Drive Spindle Kit for Specialty Intralox 1.00" Pitch Belt (Includes Items 1, 2, 4, 7, 10, 12 and 15)
17	74NBDDT12- <u>WW</u>	Nose Bar Drive Tail Kit when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Standard .50" Pitch Belt (Includes Items 1, 2, 4 through 10, 12 and 13)
	74NBDDT25- <u>WW</u>	Nose Bar Drive Tail Kit when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Standard 1.00" Pitch Belt (Includes Items 1, 2, 4 through 10, 12 and 13)
	74NBDDT11- <u>WW</u>	Nose Bar Drive Tail Kit when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Specialty Intralox .60" Pitch Belt (Includes Items 1, 2, 4 through 10, 12 and 13)
	74NBDDT16- <u>WW</u>	Nose Bar Drive Tail Kit when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Specialty Intralox 1.00" Pitch Belt (Includes Items 1, 2, 4 through 10, 12 and 13)
	74NBCDT12- <u>WW</u>	Nose Bar Drive Tail Kit for Standard .50" Pitch Belt (Includes Items 1, 2, 4 through 10, 12 and 13)
	74NBCDT25- <u>WW</u>	Nose Bar Drive Tail Kit for Standard 1.00" Pitch Belt (Includes Items 1, 2, 4 through 10, 12 and 13)
	74NBCDT11- <u>WW</u>	Nose Bar Drive Tail Kit for Specialty Intralox .60" Pitch Belt (Includes Items 1, 2, 4 through 10, 12 and 13)
	74NBCDT16- <u>WW</u>	Nose Bar Drive Tail Kit for Specialty Intralox 1.00" Pitch Belt (Includes Items 1, 2, 4 through 10, 12 and 13)
<u>WW</u> = Conveyor width ref: 06 - 60 in 02 increments		
* When the conveyor is ordered with a Dorner gearmotor mounting package, the shaft assembly is replaced with a gearmotor mounting bracket.		

Sprocket Quantity (Item 4)	
Width	Sprocket Quantity
6" (152 mm)	2
8" (203 mm)	2
10" (254 mm)	3
12" (305 mm)	3
14" (356 mm)	4
16" (406 mm)	4
18" (457 mm)	5
20" (508 mm)	5
22" (559 mm)	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
36" (914 mm)	9
38" (965 mm)	10
40" (1016 mm)	10
42" (1067 mm)	11
44" (1118 mm)	11
46" (1168 mm)	12
48" (1219 mm)	12
50" (1270 mm)	13
52" (1321 mm)	13
54" (1372 mm)	14
56" (1422 mm)	14
58" (1473 mm)	15
60" (1524 mm)	15



# Service Parts

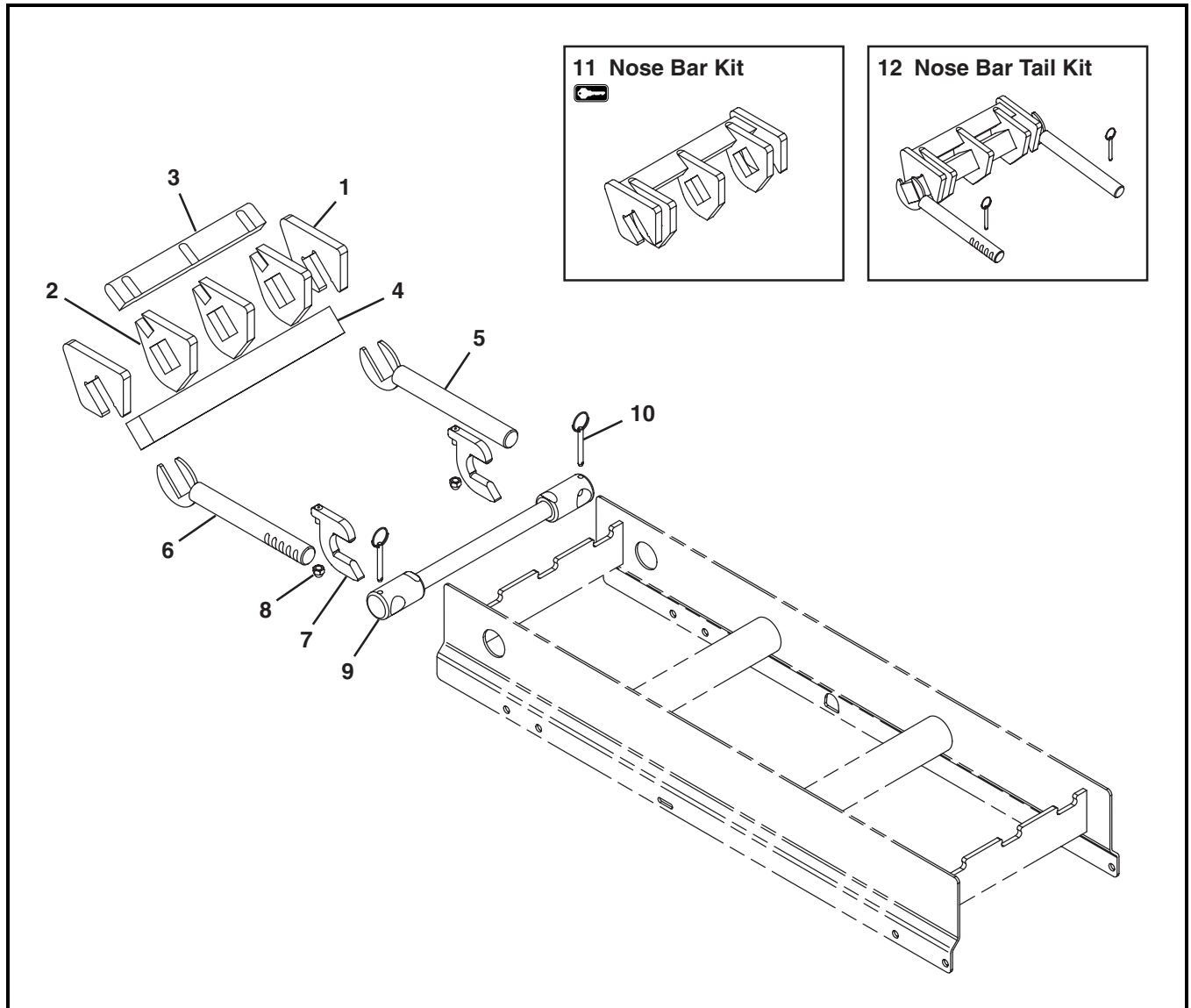
## Nose Bar Tension End



Item	Part Number	Description
1	500490	Nose Bar Tracking Puck
2	500278	Nose Bar Puck
3	5056 <u>WW</u>	.5" Pitch Nose Bar Wear Strip
	5058 <u>WW</u>	1" Pitch Nose Bar 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	500487	Nose Bar Idler Shaft Left Hand
6	500488	Nose Bar Idler Shaft Right Hand
7	807-1469	Pull Pin
8	74NB5- <u>WW</u>	.5" Nose Bar Kit (Includes Items 1 through 3)
	74NB1- <u>WW</u>	1" Nose Bar Kit (Includes Items 1 through 3)

Item	Part Number	Description
9	74NBT5- <u>WW</u>	.5" Nose Bar Tail Kit for Standard Belt (Includes Items 1 through 6)
	74NBT1- <u>WW</u>	1" Nose Bar Tail Kit For Standard Belt (Includes Items 1 through 6)
	74NBT5S- <u>WW</u>	.5" Nose Bar Tail Kit for Specialty Intralox Belt (Includes Items 1 through 6)
	74NBT1S- <u>WW</u>	1" Nose Bar Tail Kit For Specialty Intralox Belt (Includes Items 1 through 6)
<u>WW</u> = Conveyor width ref: 06 - 60 in 02 increments		

## Nose Bar Tip Up Tension End



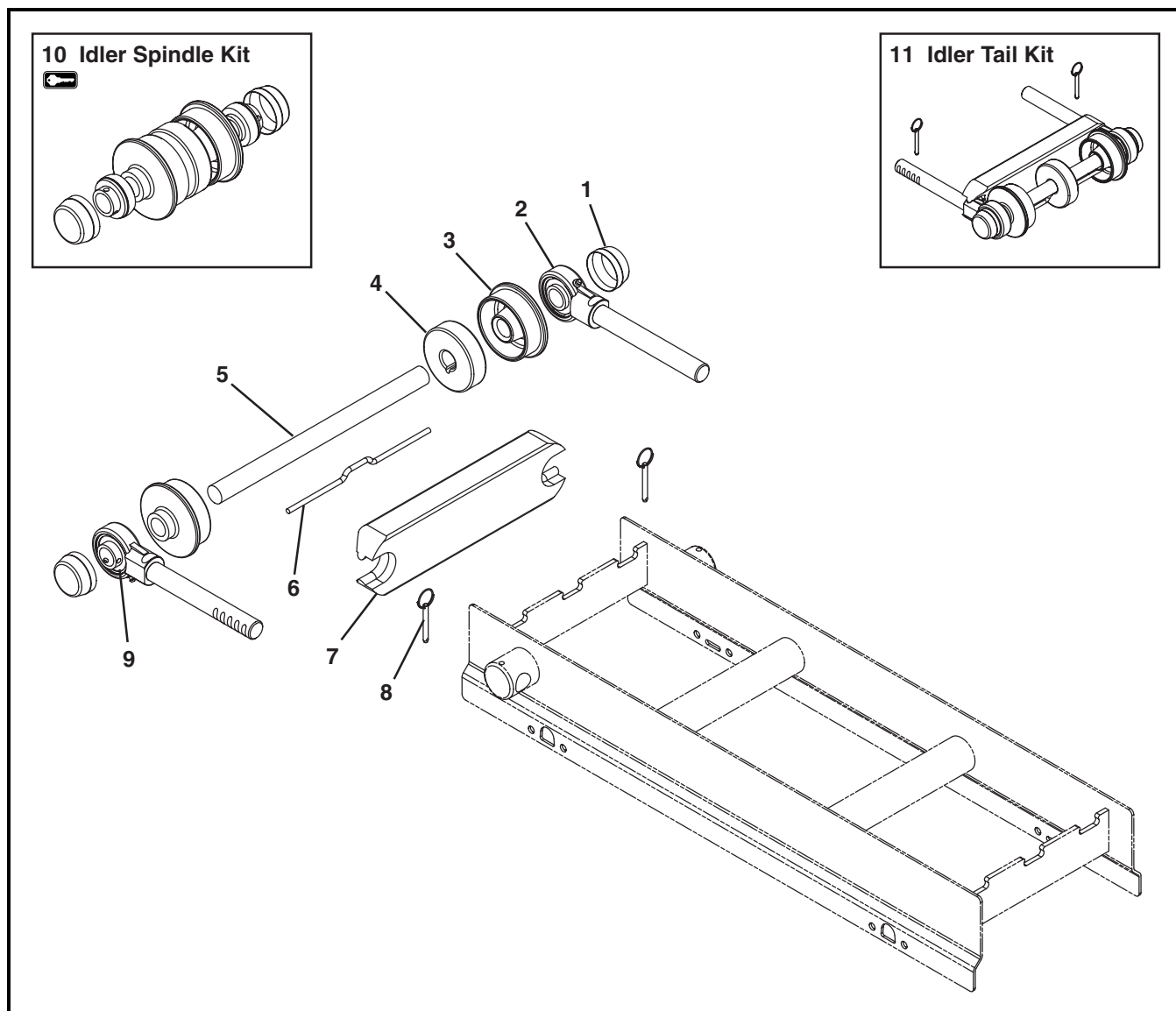
Item	Part Number	Description
1	500490	Nose Bar Tracking Puck
2	500278	Nose Bar Puck
3	5056WW	.5" Pitch Nose Bar Wear Strip
	5058WW	1" Pitch Nose Bar Wear Strip
4	5037WW	Nose Bar Transfer Post for Standard Belt
	5076WW	Nose Bar Transfer Post for Specialty Intralox Belt
5	500487	Nose Bar Idler Shaft Left Hand
6	500488	Nose Bar Idler Shaft Right Hand
7	500184	Key Stop
8	991008MSS	M10-1.50 Acorn Nut
9	5005WW	Tip Up Shaft Assembly

Item	Part Number	Description
10	807-1469	Pull Pin
11	74NB5-WW	.5" Nose Bar Kit (Includes Items 1 through 3)
	74NB1-WW	1" Nose Bar Kit (Includes Items 1 through 3)
12	74NBT5-WW	.5" Nose Bar Tail Kit for Standard Belt (Includes Items 1 through 6)
	74NBT1-WW	1" Nose Bar Tail Kit For Standard Belt (Includes Items 1 through 6)
	74NBT5S-WW	.5" Nose Bar Tail Kit for Specialty Intralox Belt (Includes Items 1 through 6)
	74NBT1S-WW	1" Nose Bar Tail Kit For Specialty Intralox Belt (Includes Items 1 through 6)

WW = Conveyor width ref: 06 - 60 in 02 increments

# Service Parts

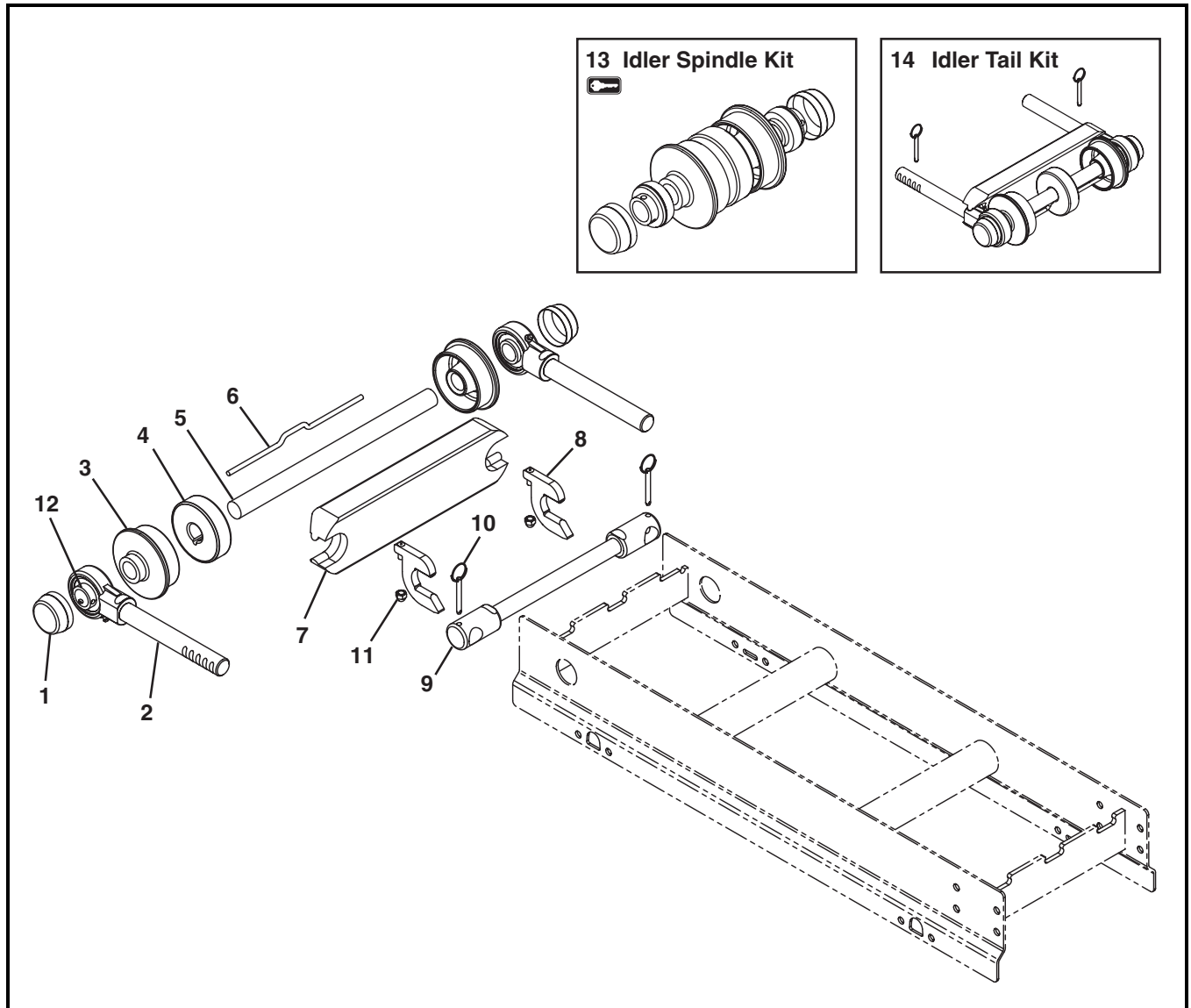
## Tension End Components



Item	Part Number	Description
1	807-1454	Bearing Cover
2	500079	Shaft Assembly with Bearing
3	5017 <u>WW</u>	Flanged Puck, Idler Tail for Standard Belt
	5072 <u>WW</u>	Flanged Puck, Idler Tail for Specialty Intralox Belt
4	500175	Idler Puck (for 8" - 60" wide conveyors only)
5	5007 <u>WW</u>	Idler Shaft
6	5008 <u>WW</u>	Bent Retaining Bar for Standard Belt (for 8" - 60" wide conveyors only)
	5073 <u>WW</u>	Bent Retaining Bar for Specialty Intralox Belt (for 8" - 60" wide conveyors only)

Item	Part Number	Description
7	5009 <u>WW</u>	Guard Bar
8	807-1469	Pull Pin
9	802-162	Bearing
10	74I- <u>WW</u>	Idler Spindle Kit for Standard Belt (Includes Items 1, 3, 4 and 9)
	74IS- <u>WW</u>	Idler Spindle Kit for Specialty Intralox Belt (Includes Items 1, 3, 4 and 9)
11	74IT- <u>WW</u>	Idler Tail Kit for Standard Belt (Includes Items 1 through 8)
	74ITS- <u>WW</u>	Idler Tail Kit for Specialty Intralox Belt (Includes Items 1 through 8)
<u>WW</u> = Conveyor width ref: 06 - 60 in 02 increments		

## Tip Up Tension End



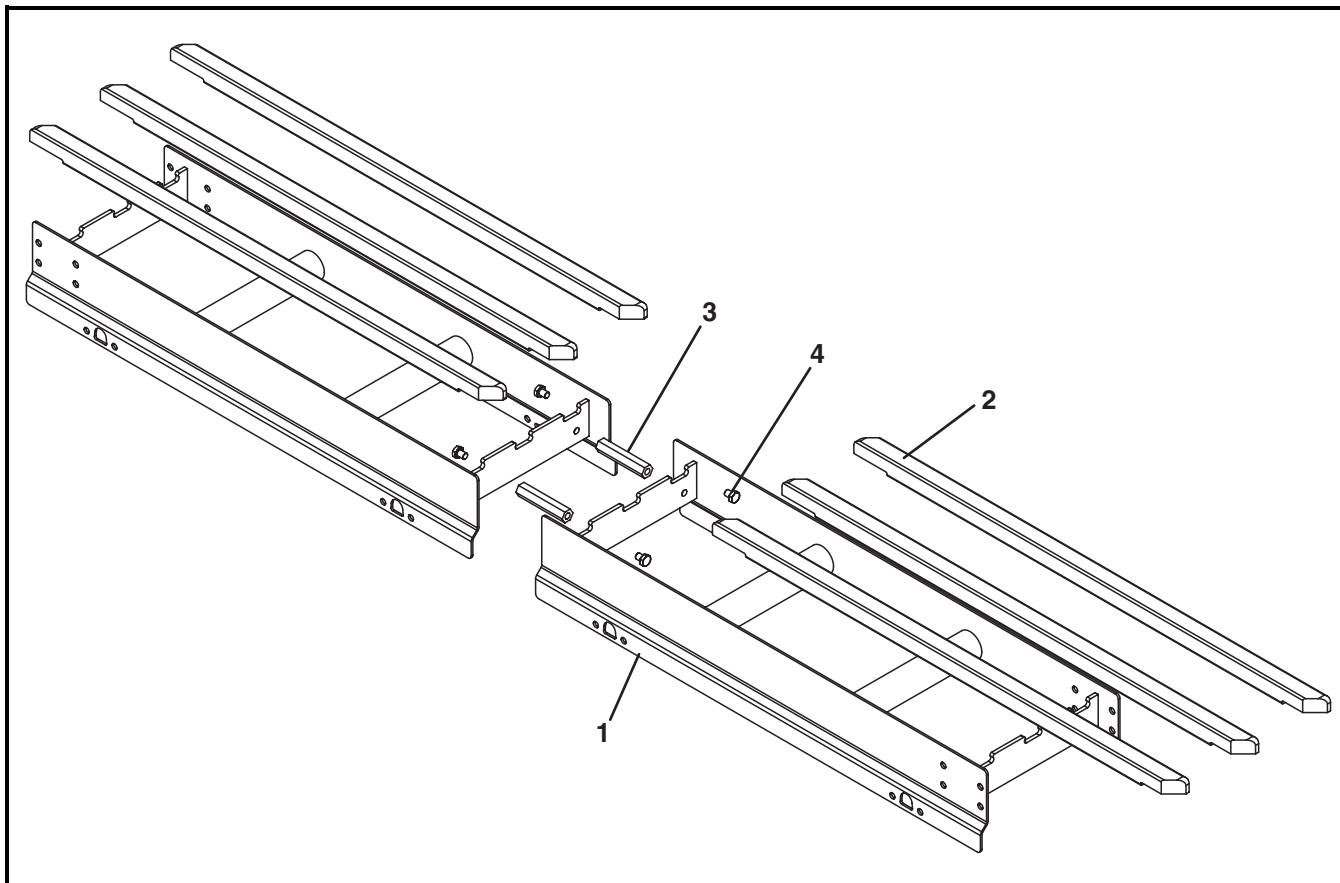
Item	Part Number	Description
1	807-1454	Bearing Cover
2	500079	Shaft Assembly with Bearing
3	5017 <u>WW</u>	Flanged Puck, Idler Tail for Standard Belt
	5072 <u>WW</u>	Flanged Puck, Idler Tail for Specialty Intralox Belt
4	500175	Idler Puck (for 8" - 60" wide conveyors only)
5	5007 <u>WW</u>	Idler Shaft
6	5008 <u>WW</u>	Bent Retaining Bar for Standard Belt (for 8" - 60" wide conveyors only)
	5073 <u>WW</u>	Bent Retaining Bar for Specialty Intralox Belt (for 8" - 60" wide conveyors only)
7	5009 <u>WW</u>	Guard Bar

Item	Part Number	Description
8	500184	Key Stop
9	5005 <u>WW</u>	Tip Up Shaft Assembly
10	807-1469	Pull Pin
11	991008MSS	M10-1.50 Acorn Nut
12	802-162	Bearing
13	74I- <u>WW</u>	Idler Spindle Kit for Standard Belt (Includes Items 1, 3, 4 and 12)
	74IS- <u>WW</u>	Idler Spindle Kit for Specialty Intralox Belt (Includes Items 1, 3, 4 and 12)
14	74IT- <u>WW</u>	Idler Tail Kit for Standard Belt (Includes Items 1 through 7 and 10)
	74ITS- <u>WW</u>	Idler Tail Kit for Specialty Intralox Belt (Includes Items 1 through 7 and 10)

WW = Conveyor width ref: 06 - 60 in 02 increments

# Service Parts

## Conveyor Frame and Extension



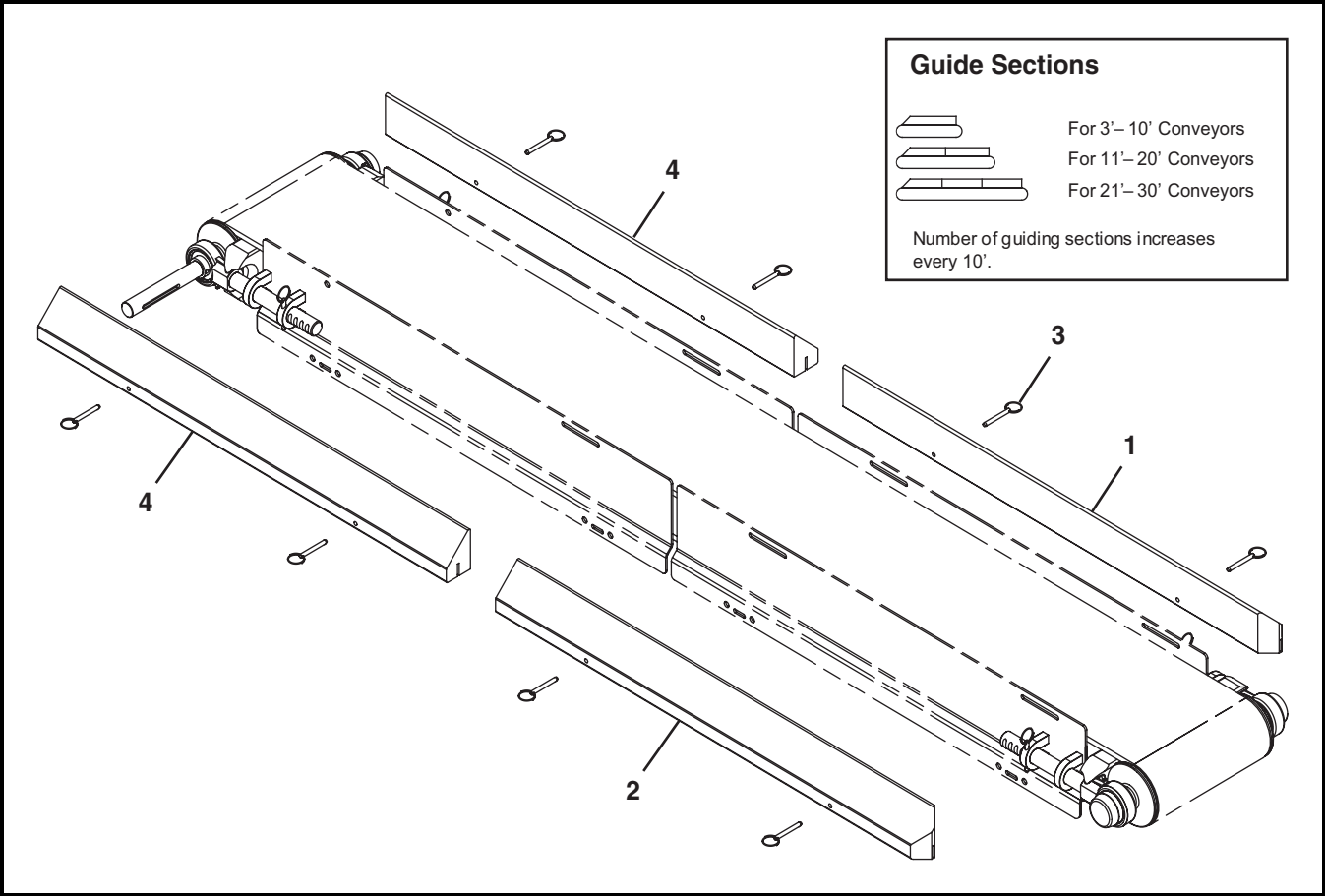
Item	Part Number	Description
1	-----	Consult Factory for Frame Part Number
2	501800-LLL	Straight Wear Strip
3	50193	Hex Post Connector
4	961016MSS	Hex Head Cap Screw M10-1.5x16mm

LLL = Conveyor length ref: 048 - 999 in 001 increments

Wear Strip Quantity (Item 2)									
		Conveyor Length (LLL)							
		048-132	133-252	253-372	373-492	493-612	613-732	733-852	853-999
Conveyor Width (WW)	06	2	4	6	8	10	12	14	16
	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
	16	4	8	12	16	20	24	28	32
	18	4	8	12	16	20	24	28	32
	20	5	10	15	20	25	30	35	40
	22	5	10	15	20	25	30	35	40
	24	5	10	15	20	25	30	35	40

Wear Strip Quantity (Item 2)									
		Conveyor Length (LLL)							
		048-132	133-252	253-372	373-492	493-612	613-732	733-852	853-999
Conveyor Width (WW)	26	6	12	18	24	30	36	42	48
	28	6	12	18	24	30	36	42	48
	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
	38	8	16	24	32	40	48	56	64
	40	8	16	24	32	40	48	56	64
	42	9	18	27	36	45	54	63	72
	44	9	18	27	36	45	54	63	72
	46	9	18	27	36	45	54	63	72
	48	10	20	30	40	50	60	70	80
	50	10	20	30	40	50	60	70	80
	52	11	22	33	44	55	66	77	88
	54	11	22	33	44	55	66	77	88
	56	11	22	33	44	55	66	77	88
	58	12	24	36	48	60	72	84	96
	60	12	24	36	48	60	72	84	96

3" (76 mm) High Sides

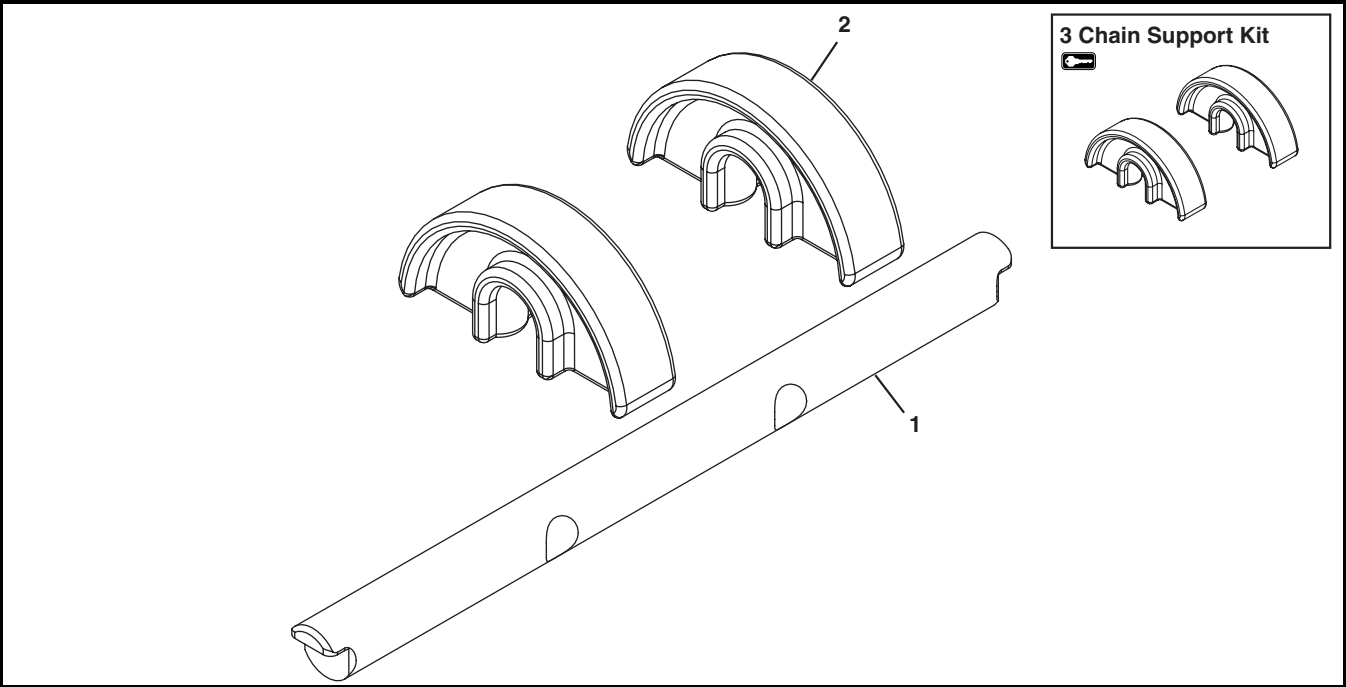


Item	Part Number	Description
1	503501- <u>LLLLL</u>	Right Hand High Side Guide
2	503601- <u>LLLLL</u>	Left Hand High Side Guide
3	807-1469	Pull Pin


Item	Part Number	Description
4	503401- <u>LLLLL</u>	Square End High Side Guide
<u>LLLLL</u> = Guide Length in inches with 2 decimal places.		
Example: Guide Length = 95.25" <u>LLLLL</u> = 09525		

# Service Parts

## Flat Belt Returns

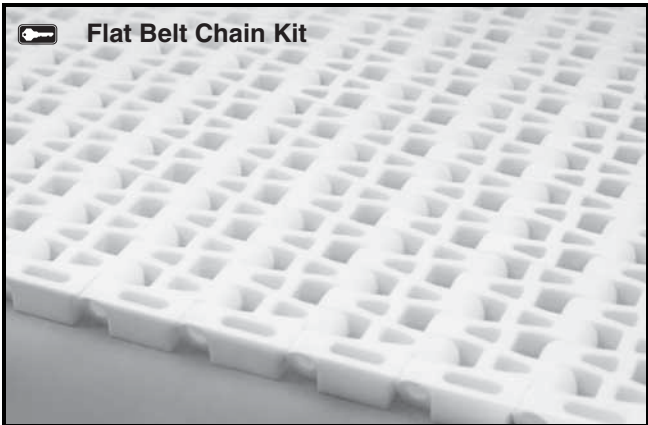


Item	Part Number	Description
1	5032 <u>WW</u>	Return Shaft
2	500075	Chain Return Shoe

Item	Part Number	Description
3	74R- <u>WW</u>	Chain Support Kit ( Includes Item 2)
 <u>WW</u> = Conveyor width ref: 06 - 60 in 02 increments		

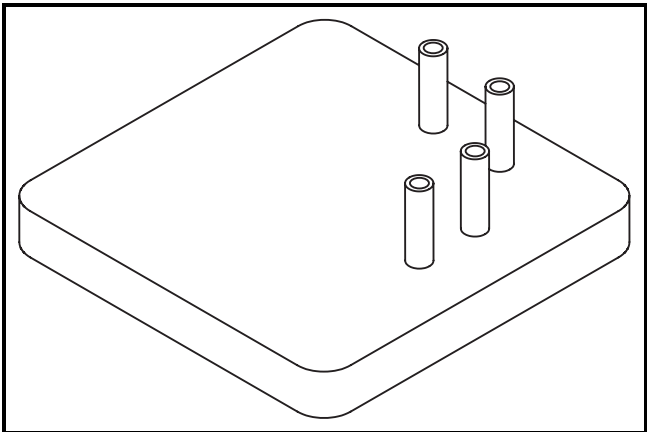


Flat Belt



Item	Part Number	Description
1	74BB-WW	Flat Belt Chain Repair Kit (Includes 1 ft (305 mm) of flat belt chain and assembly pins)
BB = Chain Reference Number		
WW = Conveyor width ref: 06 - 60 in 02 increments		

Belt Removal Tool



Item	Part Number	Description
1	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')

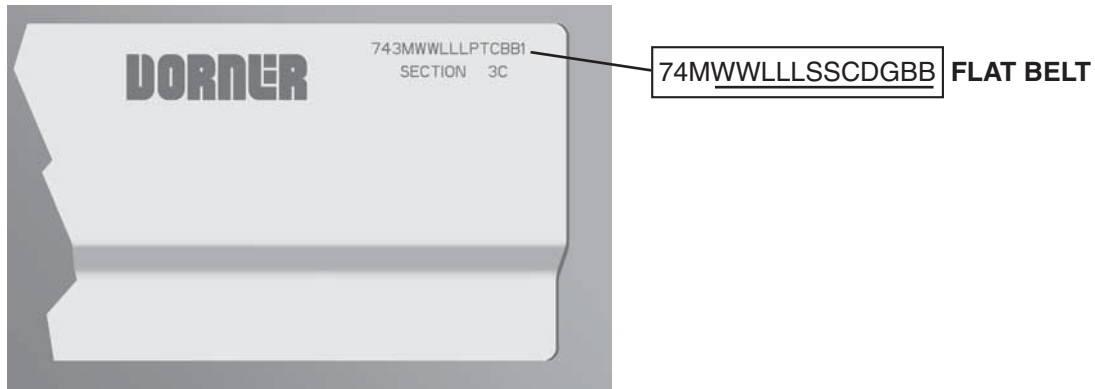
Order: Qty (43) of 74BB-WW

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# Service Parts

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## Configuring Conveyor Part Number



**Figure 81**

### Flat Belt Conveyor

Refer to the model number on the conveyor frame (**Figure 81**). From the model number, determine conveyor width (WW), length (LLL), drive stand location (S), idler stand location (S), cleaning options (C), drive/pulley type (D), profile (G) and belt material (BB).

#### Example:

**74M12072CC111MA**

7400 Series end drive, flat belt conveyor, 12" (305mm) wide x 72" (1829mm) long, stands located 18" (457mm) from each end, frame cutout cleaning option, side drive with standard pulleys on each end, low side profiles, and MA 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.

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](http://www.dorner.com).

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



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