



# 7400 Series CE End Drive Conveyors

Installation, Maintenance and Parts Manual



Flat Belt Conveyor



Cleated Belt Conveyor

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# Table of Contents

Introduction .....	2	Standard Belts.....	19
Warnings – General Safety.....	3	Replacing a Section of Belt .....	19
Product Description.....	4	Replacing the Entire Belt.....	20
Specifications .....	5	Specialty Intralox 1100 Series Belts .....	20
Flat Belt 7400 Series Conveyor .....	5	Replacing a Section of Belt .....	20
Cleated Belt 7400 Series Conveyor .....	5	Replacing the Entire Belt.....	21
Flat Belt 7400 Series LPZ Conveyor .....	5	Specialty Intralox 1600 Series Belts .....	21
Cleated Belt 7400 Series LPZ Conveyor .....	5	Replacing a Section of Belt .....	21
Conveyor Supports.....	6	Replacing the Entire Belt.....	21
Specifications.....	6	Conveyor Belt Tensioning .....	22
Installation .....	7	Sprocket and Puck Removal .....	22
Required Tools.....	7	A - Drive Sprocket Removal .....	22
Recommended Installation Sequence .....	7	B - Idler Puck Removal .....	24
Conveyors Longer than 3048 mm .....	7	Reassembling Tail Assemblies .....	25
LPZ Conveyors .....	8	Idler Tail and Tip Up Tail .....	25
Knuckles.....	8	Drive Tail .....	25
Belt .....	8	Bearing Replacement.....	27
Guides.....	9	LPZ Knuckles .....	27
All Conveyors .....	9	Wearstrips and Belt Returns.....	27
Stand Installation.....	9	Service Parts .....	28
Tail Assembly Installation .....	10	Drive End Components.....	28
Drive Tail.....	10	Tension End Components .....	30
Idler Tail .....	10	Tip Up Tension End.....	31
Tip Up Tail .....	11	Nose Bar Tension End .....	32
Nose Bar Idler Tail .....	12	Nose Bar Tip Up Tension End.....	33
Nose Bar Tip Up Tail .....	12	Conveyor Frame and Extension.....	34
Lifter Installation.....	14	Upper Knuckle for 5° - 15° .....	35
Wear Strip Installation .....	14	Upper Knuckle for 30° - 60° .....	36
Belt Installation .....	15	Lower Knuckle for 5° - 15° .....	37
Belt Return Installation .....	16	Lower Knuckle for 30° - 60° .....	38
Preventive Maintenance and Adjustment.....	17	76 mm High Sides.....	39
Required Tools.....	17	Cleated 25 mm Guides.....	40
Checklist .....	17	Cleated 76 mm Guides.....	41
Cleaning .....	17	Flat Belt Returns .....	42
Routine Cleaning.....	17	Cleated Belt Returns .....	42
Standard Conveyors.....	17	Flat Belt.....	43
Conveyors with Tip Up Tails and Lifters.....	17	Cleated Belt.....	43
Periodic Cleaning .....	18	Ordering a Replacement Chain .....	43
Lubrication.....	18	Belt Removal Tool.....	43
Conveyor Bearings.....	18	Configuring Conveyor Part Number.....	44
Wearstrips and Belt Returns .....	18	Notes.....	45
Maintaining the Conveyor Belt.....	18	Return Policy .....	46
Troubleshooting .....	18		
Conveyor Belt Replacement .....	19		
Conveyors with Guides .....	19		

## Introduction

### CAUTION

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


Upon receipt of shipment:

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

The Dorner Limited Warranty applies.

Dorner AquaPruf conveyors are covered by Patent Numbers 7,207,435, 7,246,697, 7,383,944, additional patent pending applications, and corresponding patents in other countries.

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 .

Intralox is a registered trademark of Laitram L.L.C. in the United States and / or other countries.


# 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.

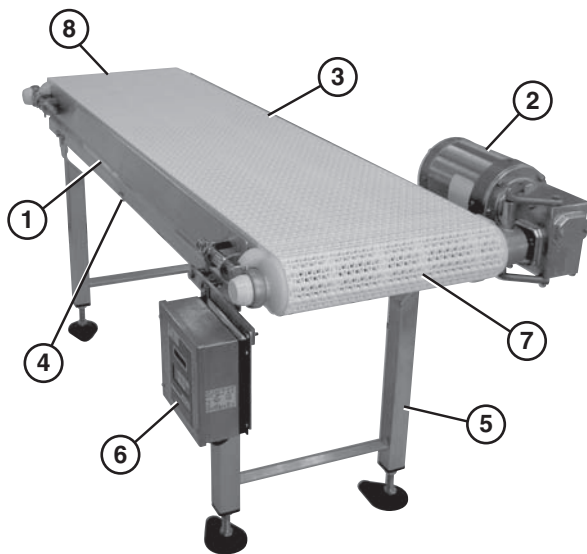
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# Product Description

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Refer to **(Figure 1)** for typical conveyor components.

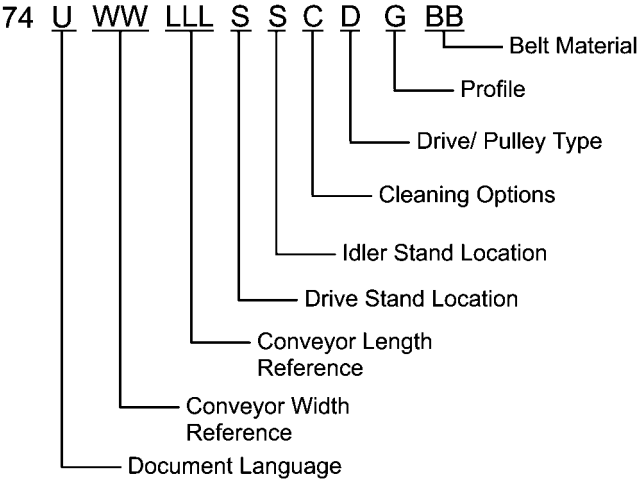
Typical Components	
1	Conveyor
2	Gearmotor
3	Belt (Flat Belt Shown)
4	Return
5	Support Stands
6	Motor Controller
7	Drive End
8	Tension End



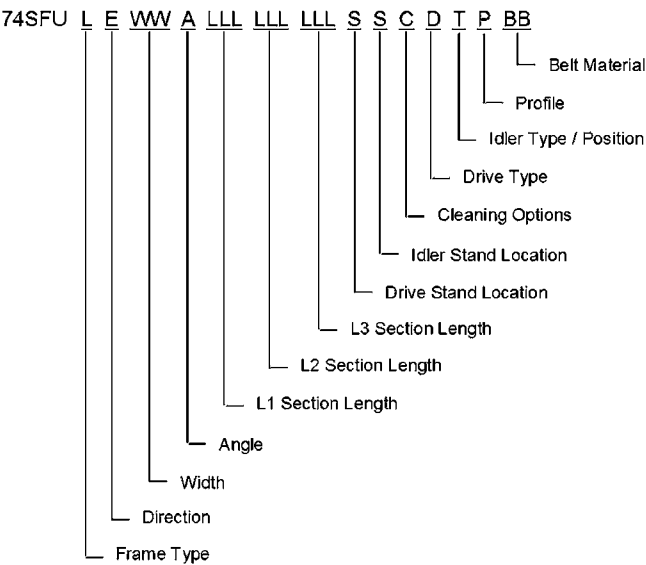
**Figure 1**

# Specifications

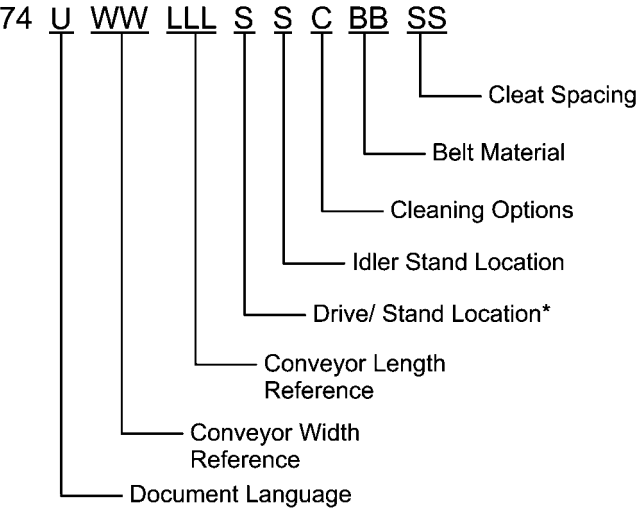
## Flat Belt 7400 Series Conveyor



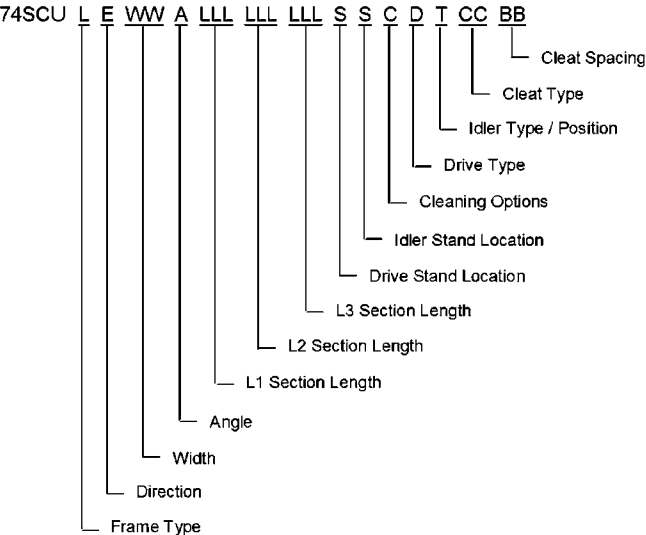
## Flat Belt 7400 Series LPZ Conveyor



## Cleated Belt 7400 Series Conveyor



## Cleated Belt 7400 Series LPZ Conveyor



# Specifications

## Conveyor Supports

### Maximum Distances:

1 = 914 mm

2 = 2438 mm\*\*

3 = 914 mm

\*\* For conveyors longer than 3.05 m, install support at frame joint.

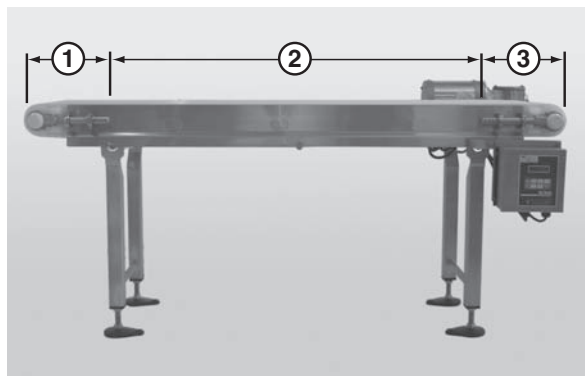


Figure 2

## Specifications

Conveyor Width Reference ( <b>WW</b> )	06 – 60 in 02 increments
Conveyor Belt Width	6" (152 mm) – 60" (1524 mm) in 2" (51 mm) increments
Maximum Conveyor Load	97 kg / m <sup>2</sup> (20 lb / ft <sup>2</sup> ) with a maximum of 4882 kg / m <sup>2</sup> (1000 lb / ft <sup>2</sup> )
Belt Travel	305 mm (12") per revolution of pulley
Maximum Belt Speed	71 m / minute (233 ft / minute)
Belt Take-up	51 mm (2")

Conveyor Length Reference ( <b>LLL</b> )	036 – 999 in 001 increments
Conveyor Length	36" (914 mm) – 999" (25.4 m) in 1" (25 mm) increments
LPZ Section Lengths ( <b>LLL</b> )	024 – 252 in 001 increments
LPZ Section Length	24" (610 mm) – 252" (6401 mm) in 1" (25 mm) increments
Total LPZ Conveyor Length	(L1 +L2 + L3) = Maximum 11.6 m (38') long conveyor

### IMPORTANT

Maximum conveyor loads are based on:

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

## ⚠ CAUTION

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.

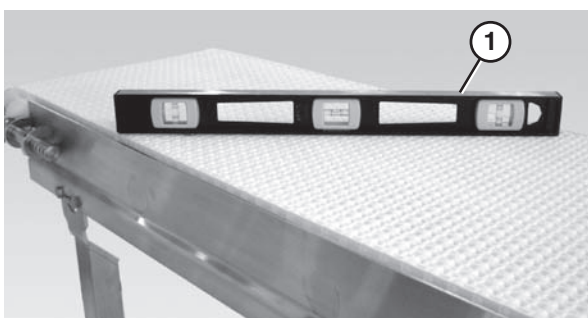


Figure 3

## 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 9.
2. Attach the tail assemblies to the frame. Refer to “Tail Assembly Installation” on page 10.
3. Attach the lifters, if applicable. Refer to “Lifter Installation” on page 14.
4. Install the gearmotor, if applicable. Refer to the “7400 Series Drive Package Installation, Maintenance and Parts Manual.”
5. Attach the wear strips. Refer to “Wear Strip Installation” on page 14.
6. Install the belt. Refer to “Belt Installation” on page 15.
7. Attach the belt returns. Refer to “Belt Return Installation” on page 16.
8. Attach any guides / accessories. Refer to the “Service Parts” section starting on page 28.

## Conveyors Longer than 3048 mm

Typical Connection Components (Figure 4).

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

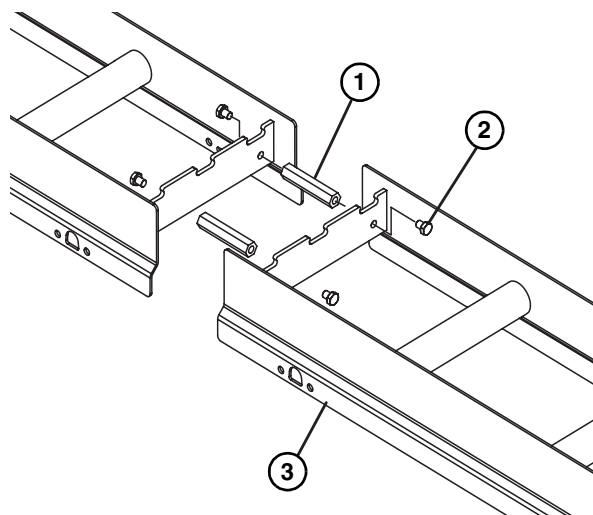


Figure 4

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

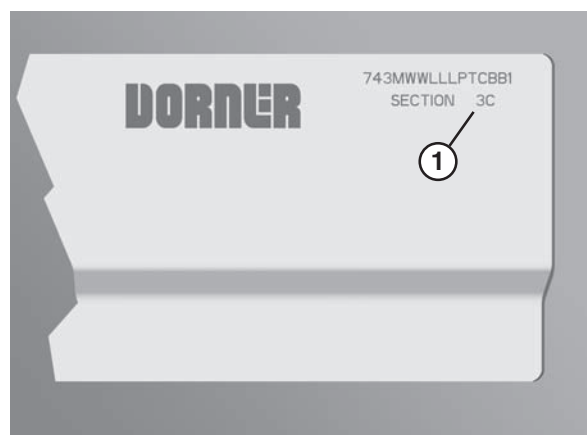
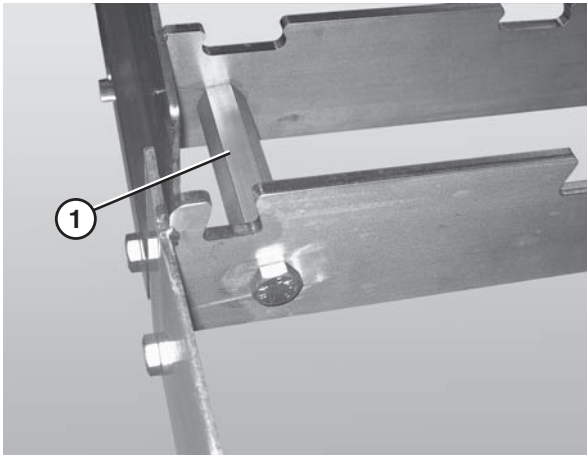


Figure 5

2. Position the frame sections in the correct order.

# Installation

3. Connect the frame sections by bolting the hex post connectors (**Figure 6, item 1**) the sections of frame.

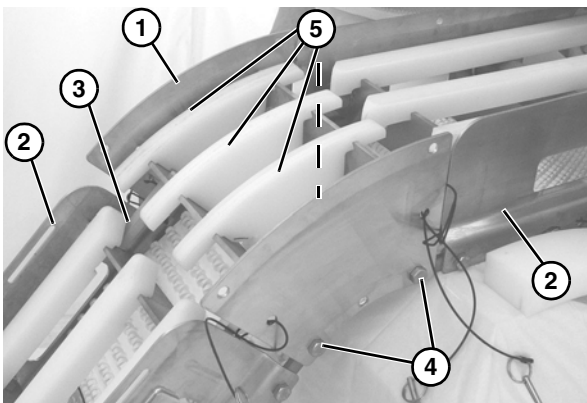


**Figure 6**

## LPZ Conveyors

### Knuckles

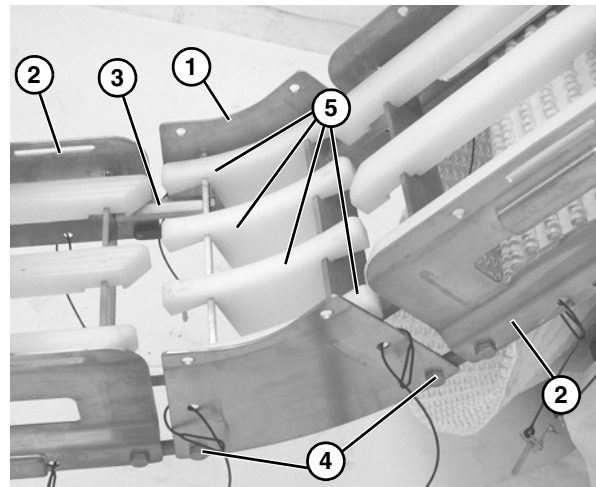
1. Attach upper knuckle (**Figure 7, item 1**) to frame (**Figure 7, item 2**) with hex rods (**Figure 7, item 3**) and bolts (**Figure 7, item 4**).



**Figure 7**

2. Install wear strips (**Figure 7, item 5**).

3. Attach lower knuckle (**Figure 8, item 1**) to frame (**Figure 8, item 2**) with hex rods (**Figure 8, item 3**) and bolts (**Figure 8, item 4**).



**Figure 8**

4. Install wear strips (**Figure 8, item 5**).

### Belt

1. Slide belt (**Figure 9, item 1**) over knuckles on top of the wear strips.

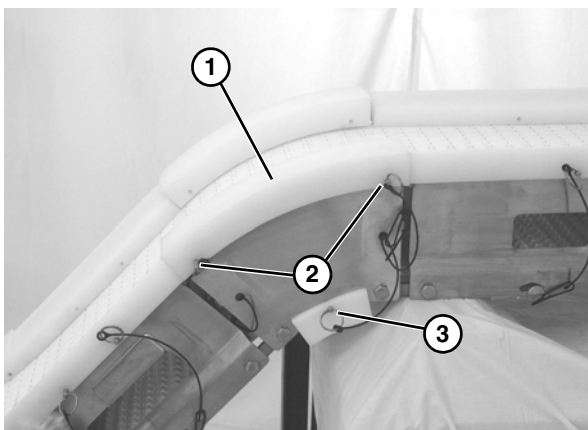


**Figure 9**



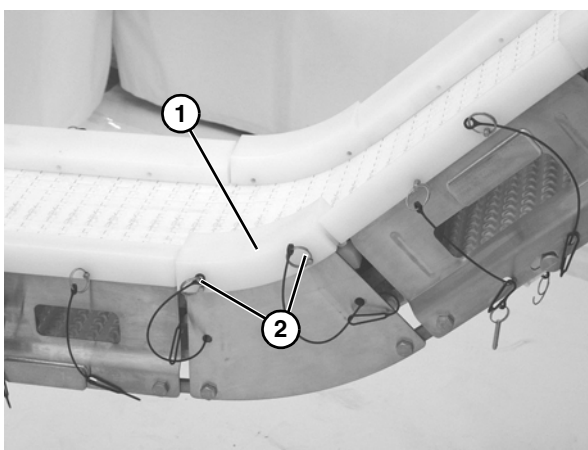
## Guides

1. Slide guides (**Figure 10, item 1**) on to the knuckle frame, and secure with pull pins (**Figure 10, item 2**).



**Figure 10**

2. Install return guides and secure with pull pin (**Figure 10, item 3**).
3. Slide guides (**Figure 11, item 1**) onto lower knuckle frame, and secure with pull pins (**Figure 11, item 2**).



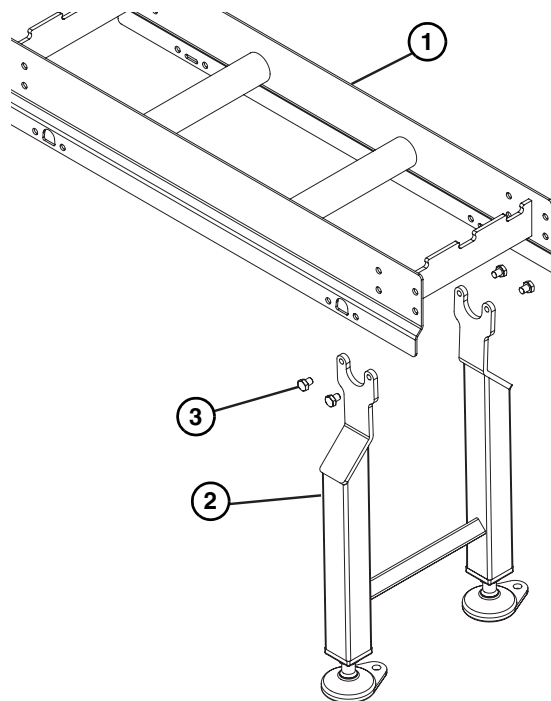
**Figure 11**

## All Conveyors

### Stand Installation

Typical Stand Components (**Figure 12**)

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



**Figure 12**

1. Position the stands on a flat, level surface.
2. Attach the stands to the frame (**Figure 13**).



**Figure 13**

# Installation

## Tail Assembly Installation

### Drive Tail

Typical Drive Tail Components (Figure 14).

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

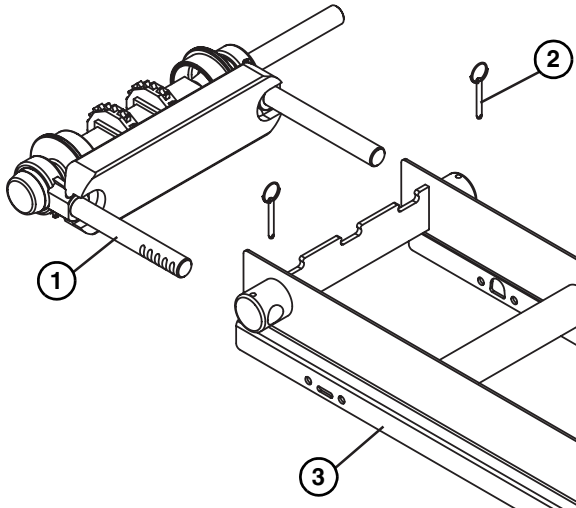


Figure 14

1. Slide the bearing shafts (Figure 15, item 1) into the take up blocks (Figure 15, item 2).

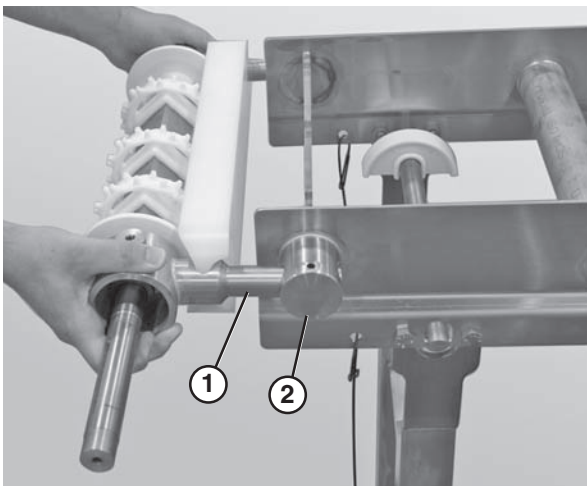


Figure 15

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

3. Insert the pull pins (Figure 16, item 1).

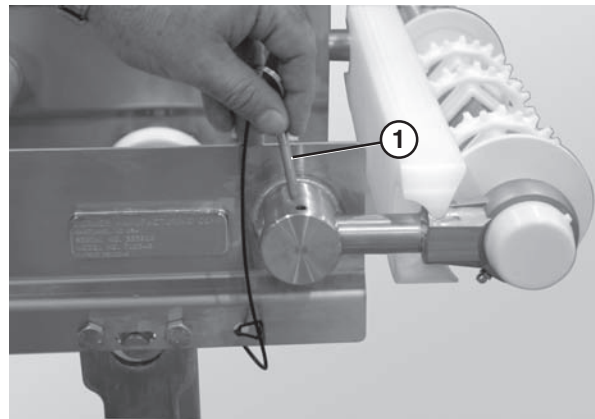


Figure 16

### Idler Tail

Typical Idler Tail Components (Figure 17)

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

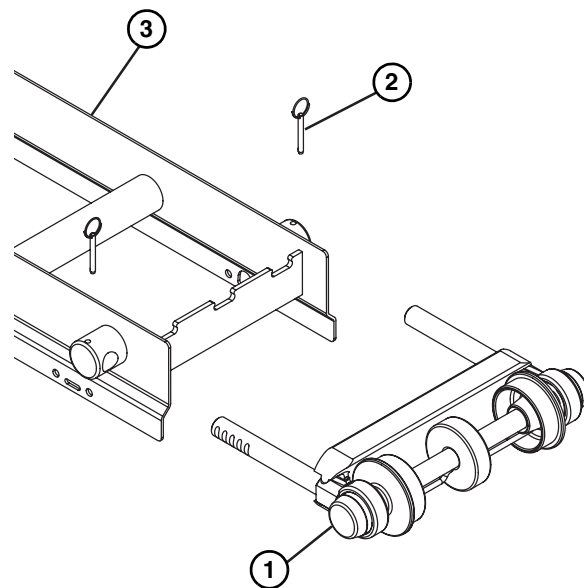
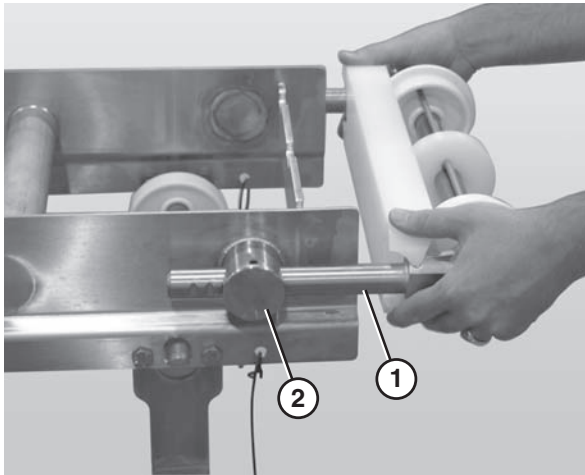


Figure 17

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



**Figure 18**

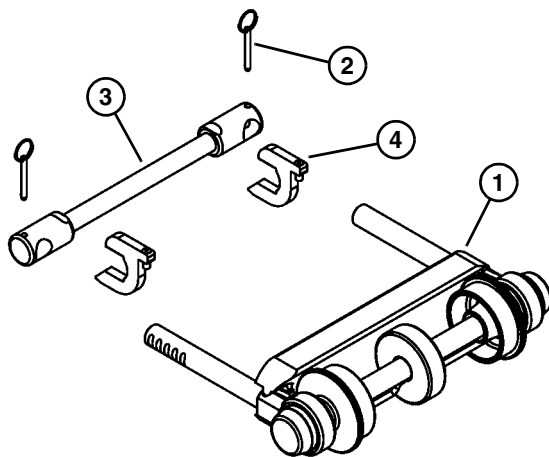
## NOTE

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

### Tip Up Tail

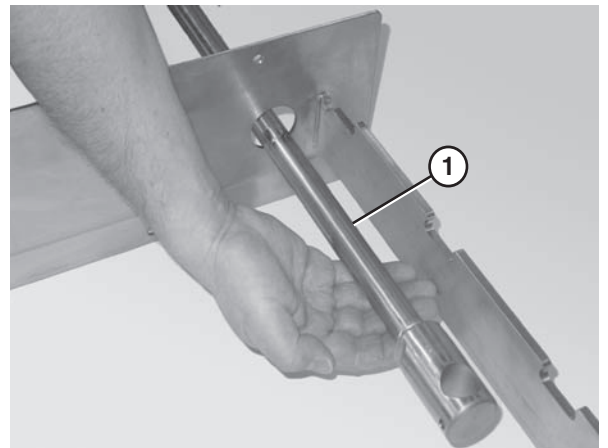
Typical Tip Up Tail Components (**Figure 19**)

- |   |                      |
|---|----------------------|
| 1 | Tip up tail assembly |
| 2 | Pull pin (x2)        |
| 3 | Tip up shaft         |
| 4 | Key stops (x2)       |



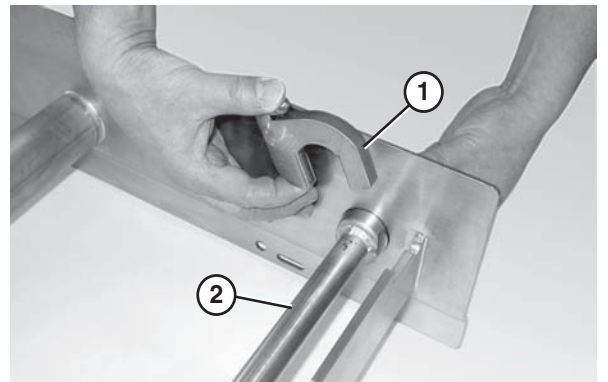
**Figure 19**

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



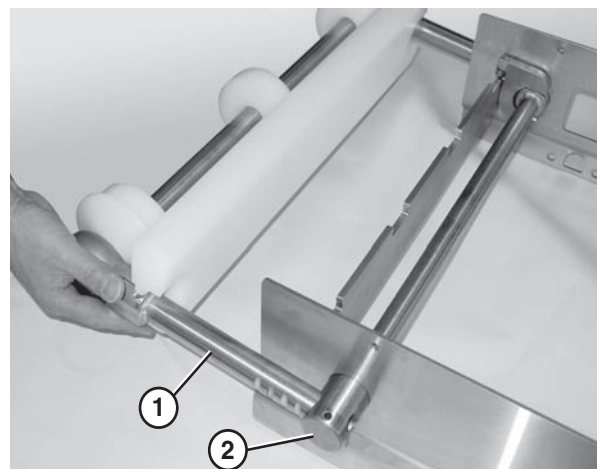
**Figure 20**

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**

# Installation

## NOTE

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

### Nose Bar Idler Tail

Typical Nose Bar Idler Tail Components (Figure 23)

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

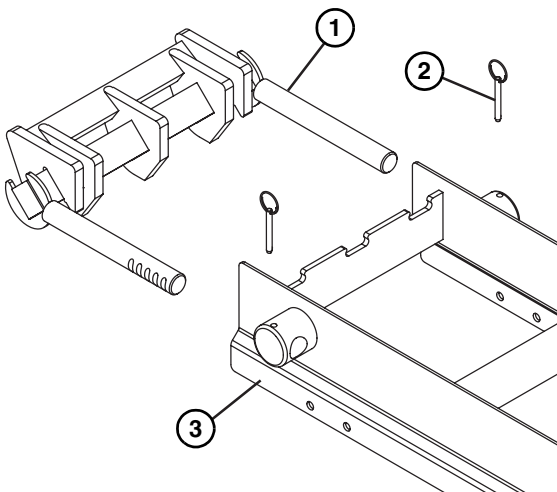


Figure 23

- Slide the nose bar idler shaft hands (Figure 24, item 1) into the take up blocks (Figure 24, item 2).

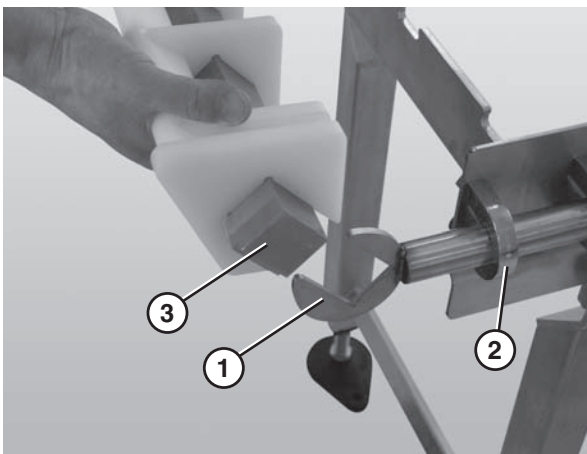


Figure 24

- Attach the nose bar transfer post (Figure 24, item 3) to the nose bar idler shaft hands.

- Ensure that the nose bar pucks (Figure 25, item 1) are in line with the conveyor frame (Figure 25, item 2).

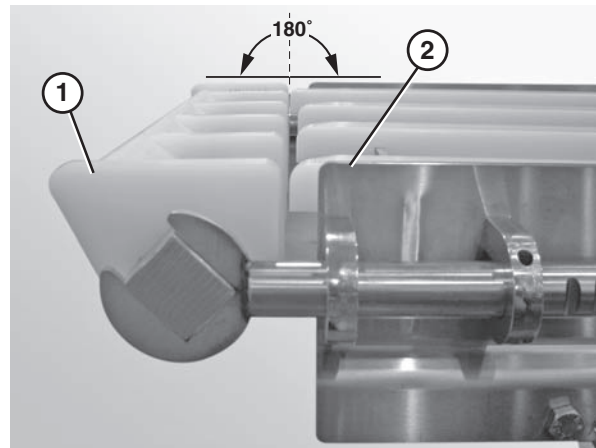


Figure 25

## 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 26)

- |   |                      |
|---|----------------------|
| 1 | Tip up tail assembly |
| 2 | Pull pin (x2)        |
| 3 | Tip up shaft         |
| 4 | Key stops (x2)       |

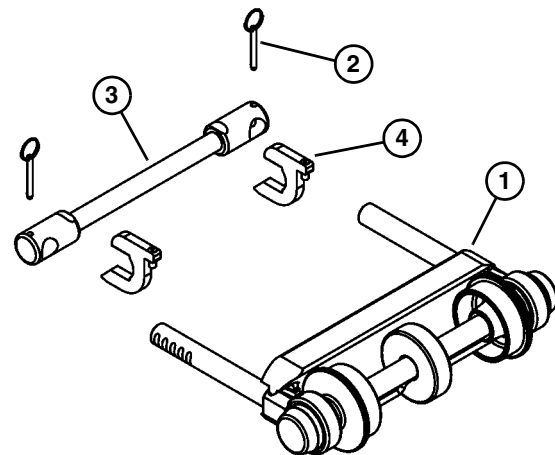
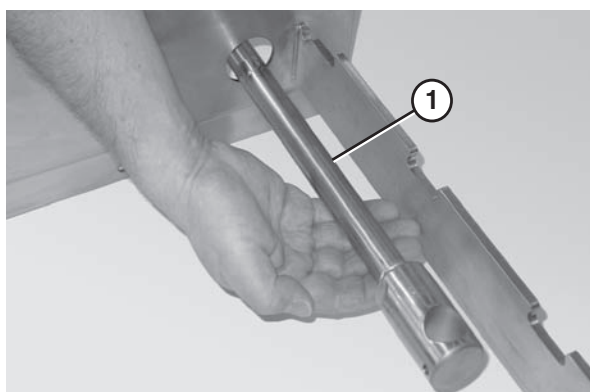


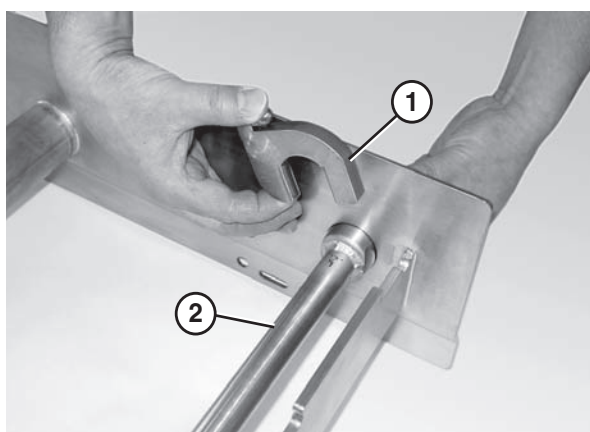
Figure 26

1. Slide the tip up shaft (**Figure 27, item 1**) through the designated slots in the frame.



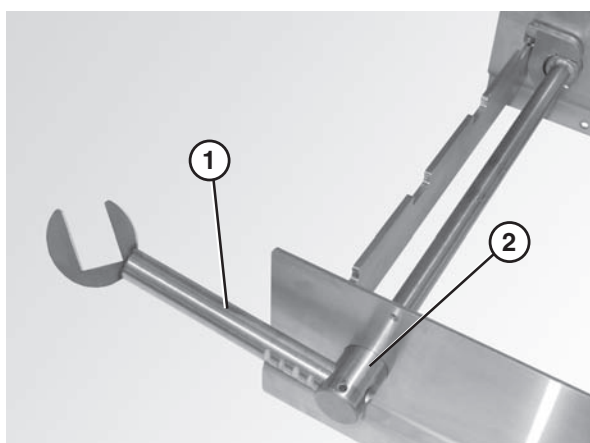
**Figure 27**

2. Attach the key stops (**Figure 28, item 1**) to the tip up shaft (**Figure 28, item 2**). The rounded end of the key stop should face the tail.



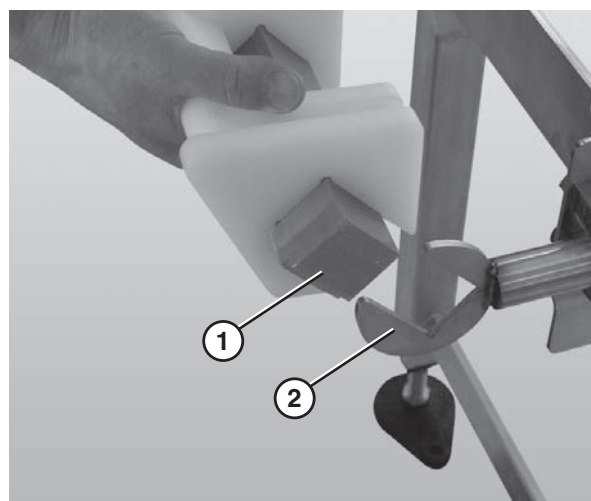
**Figure 28**

3. Attach the nose bar idler shaft hands (**Figure 29, item 1**) to the tip up shaft (**Figure 29, item 2**).



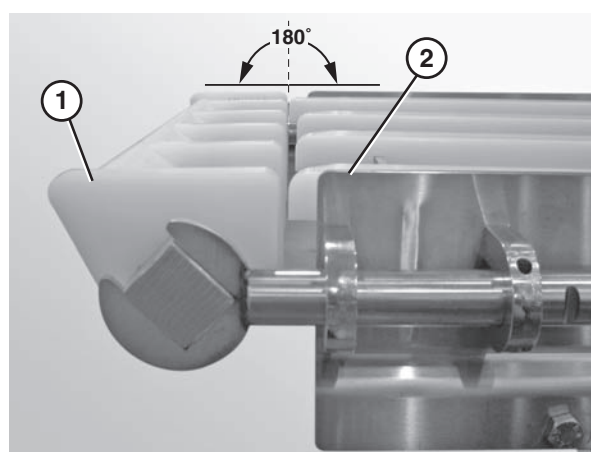
**Figure 29**

4. Attach the nose bar transfer post (**Figure 30, item 1**) to the nose bar idler shaft hands (**Figure 30, item 2**).



**Figure 30**

5. Ensure that the nose bar pucks (**Figure 31, item 1**) are in line with the conveyor frame (**Figure 31, item 2**).



**Figure 31**

## NOTE

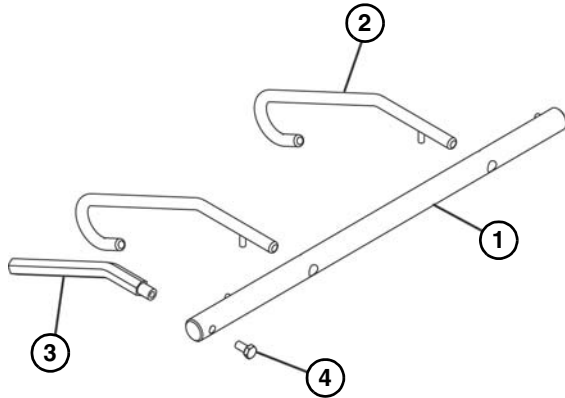
*Do not insert the pull pins on the tension end of the conveyor until the belt has been installed.*

# Installation

## Lifter Installation

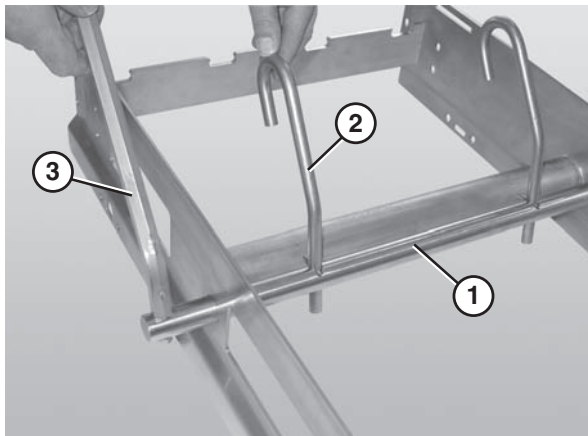
Typical Lifter Components (**Figure 32**)

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



**Figure 32**

1. Slide the belt lift pivot bar (**Figure 33, item 1**) through the designated holes in the frame.



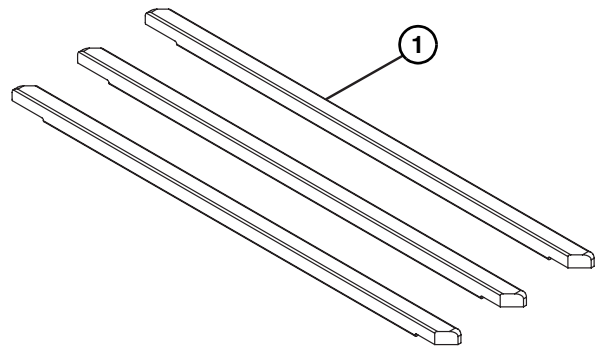
**Figure 33**

2. Attach the lifter bars (**Figure 33, item 2**) to the belt lift pivot bar (**Figure 33, 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 33, item 3**) to the belt lift pivot rod.

## Wear Strip Installation

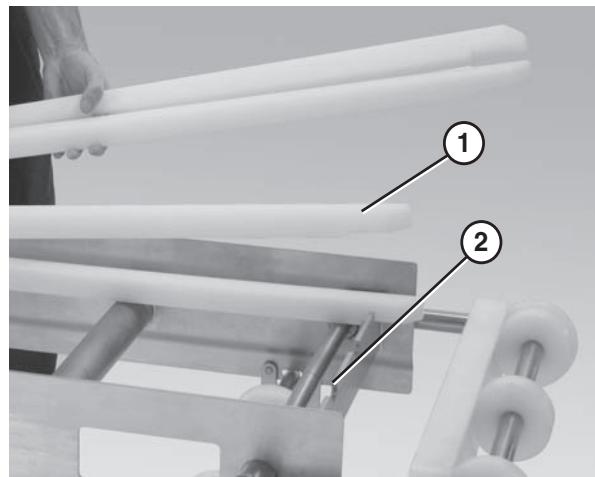
Typical Wear Strip Components (**Figure 34**)

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



**Figure 34**

1. Position the wear strips (**Figure 35, item 1**) on the frame.



**Figure 35**

2. Make sure the wear strips are situated securely in the frame slots (**Figure 35, item 2**).

## Belt Installation

Typical Belt Components (Figure 36)

1	Chain belt
2	Belt rod

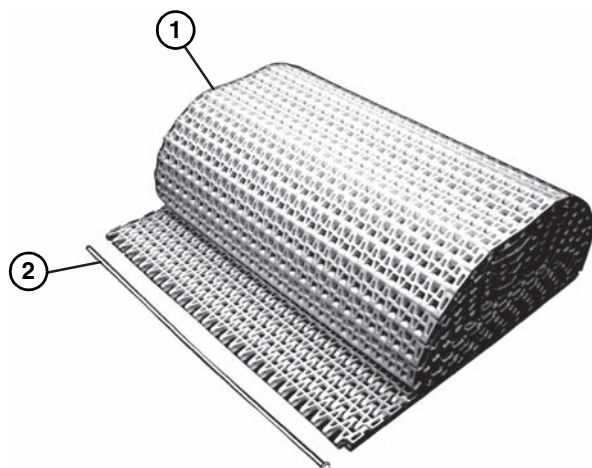


Figure 36

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).

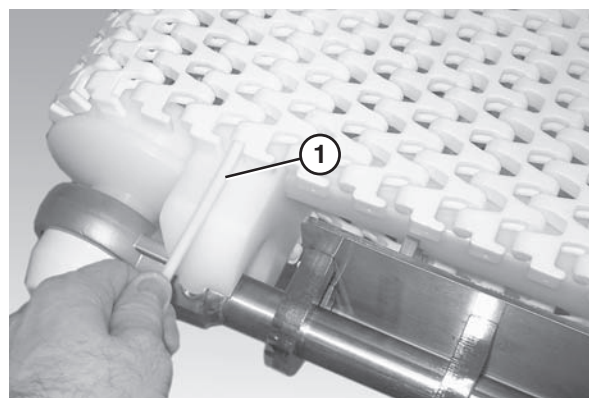


Figure 39

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. Extend the tension end to remove excess slack in the belt (Figure 40).

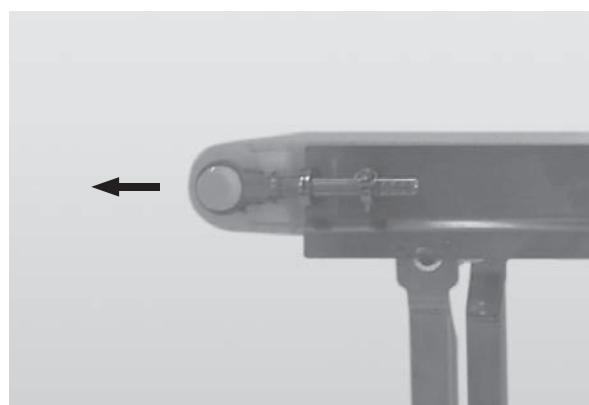


Figure 40

8. Insert the pull pins (Figure 41, item 1) on the tension end of the conveyor.

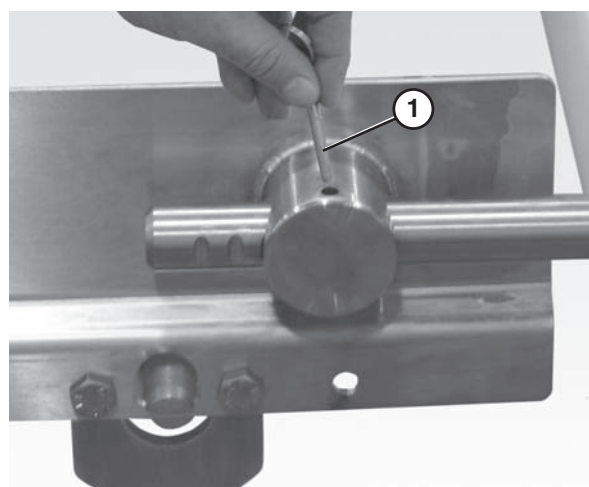


Figure 41

# Installation

- 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 19.

## Belt Return Installation

Typical Belt Return Components (Figure 42)

1	Return shaft
2	Chain return shoe

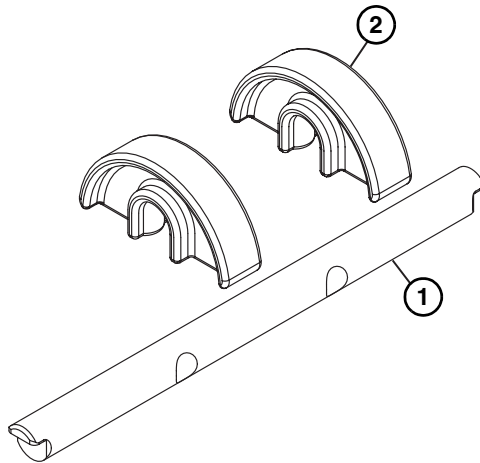


Figure 42

- Attach the chain return shoes (Figure 43, item 1) to the return shaft (Figure 43, item 2).

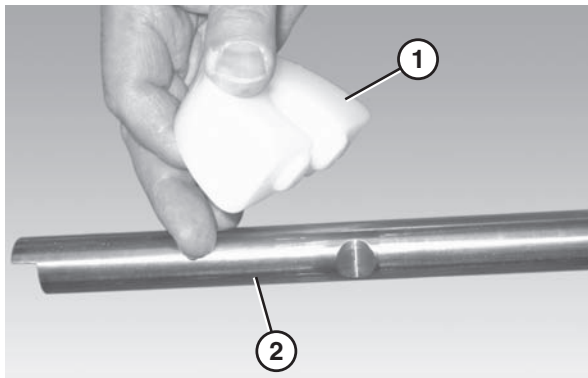


Figure 43

- Slide the return shaft (Figure 44, item 1) up and through the large slot (Figure 44, item 2) in the frame (picture shown without the belt or wear strips).

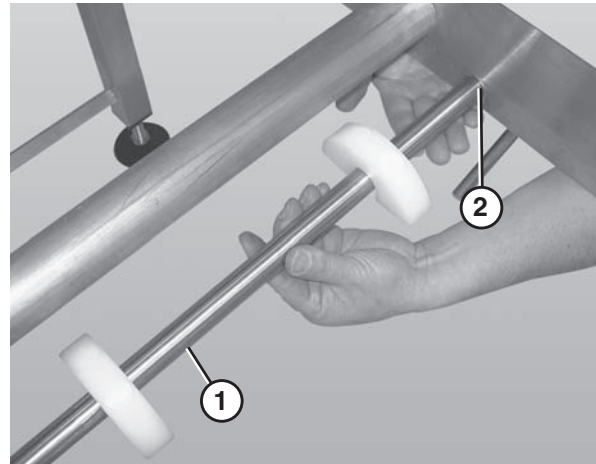


Figure 44

- Push up on the return shaft (Figure 44, item 1) and slide the notched end of the shaft through the small slot on the opposite side of the frame.
- Check belt sag by measuring from the top of the return (Figure 45). Belt sag should not exceed 102 mm. Follow steps 7 – 9 in the “Belt Installation” section on page 15 to remove slack from the belt.

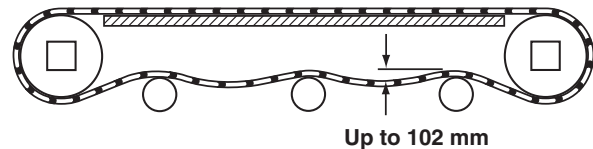


Figure 45

<b>⚠ CAUTION</b>
<b>Belt sag should not exceed 102 mm from the top of the returns.</b>



# 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

<b>NOTE</b>
<i>Proper conveyor application, cleaning, and sanitation are the responsibility of the end user.</i>

<b>⚠ CAUTION</b>
<b>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.</b>

## Routine Cleaning

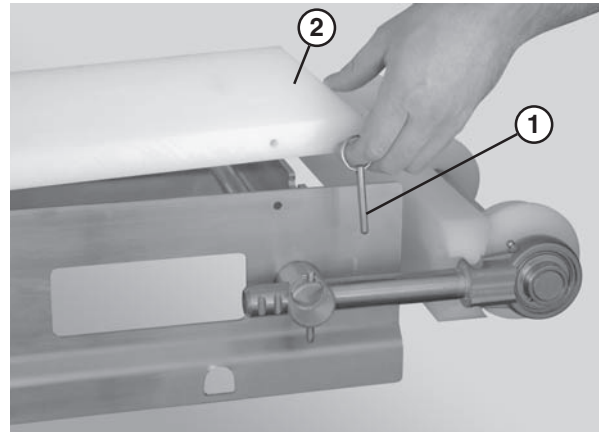
<b>⚠ WARNING</b>

<b>SEVERE HAZARD!</b> <b>LOCK OUT POWER before removing guards or performing maintenance. Exposed moving parts can cause serious injury.</b>

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.

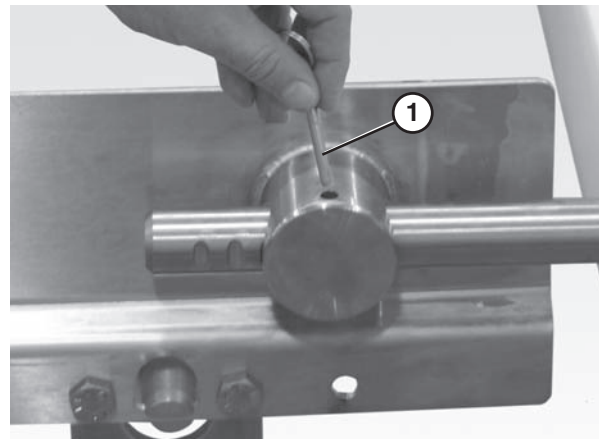
### Standard Conveyors

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.



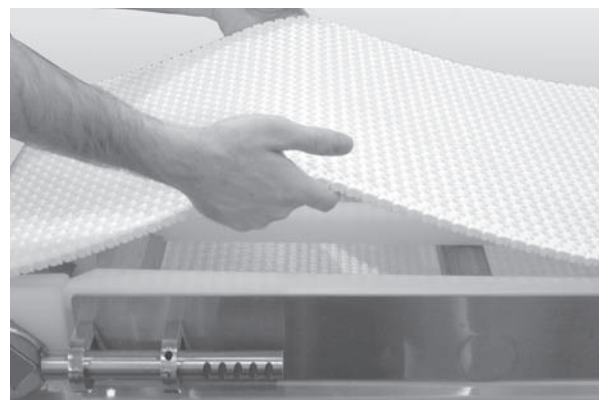
**Figure 46**

2. Remove the pull pin (**Figure 47, item 1**) on the tension end of the conveyor to release belt tension.



**Figure 47**

3. Lift up on the belt (**Figure 48**).



**Figure 48**

### 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 49, item 1**) to raise the lifters (**Figure 49, item 2**) and raise the tip up tail (**Figure 49, item 3**).

# Preventive Maintenance and Adjustment

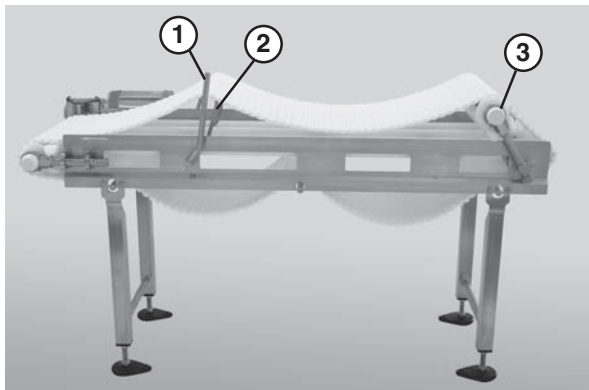


Figure 49

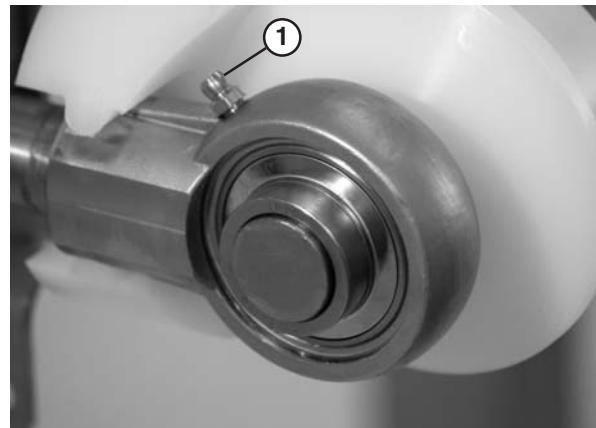


Figure 50

## 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 19.
- Refer to “Sprocket and Puck Removal” on page 22.
- Refer to “Reassembling Tail Assemblies” on page 25.

## 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 50, item 1**) on the exterior of the bearing shaft assembly.

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 14.
- Refer to “Belt Return Installation” on page 16.

## 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

Damage to belt links or rods indicate:

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

# Preventive Maintenance and Adjustment

## Conveyor Belt Replacement

<b>⚠ WARNING</b>

<b>SEVERE HAZARD!</b> 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 51, item 1) that connect the guide (Figure 51, item 2) to the frame.

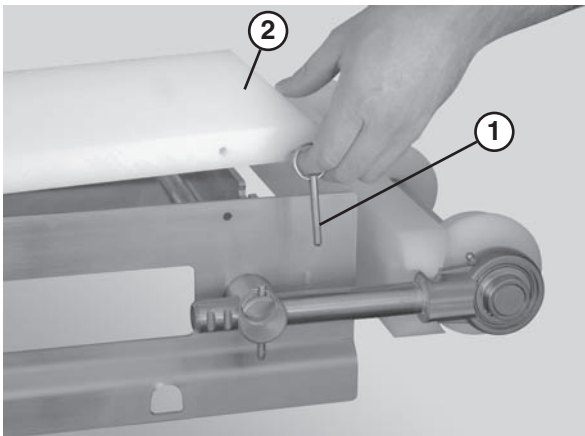


Figure 51

2. Remove the guide (Figure 52, item 1).

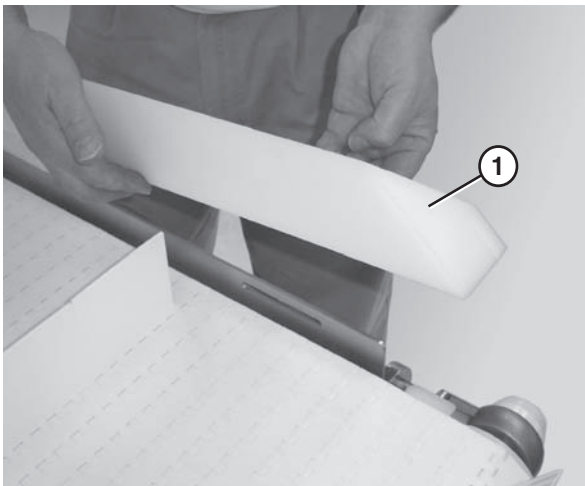


Figure 52

3. Follow the belt replacement procedures described in “Standard Belts” on page 19, “Specialty Intralox 1100 Series Belts” on page 20, or “Specialty Intralox 1600 Series Belts” on page 21.

## Standard Belts

### Replacing a Section of Belt

1. Remove the pull pins (Figure 53, item 1) on the tension end of the conveyor to release tension on the belt.

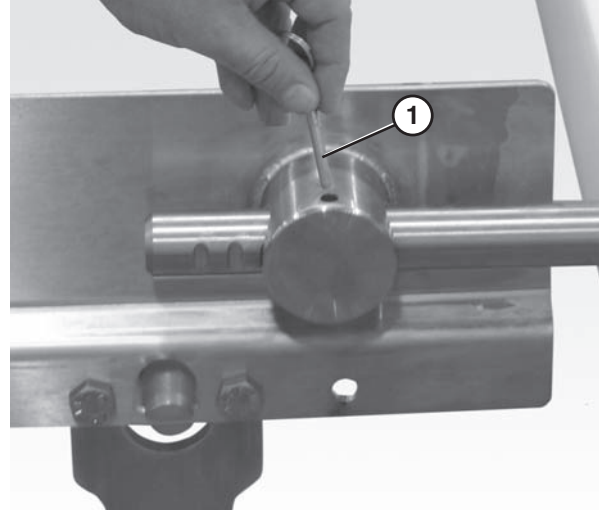


Figure 53

<b>⚠ CAUTION</b>
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 54, 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 54, item 2).

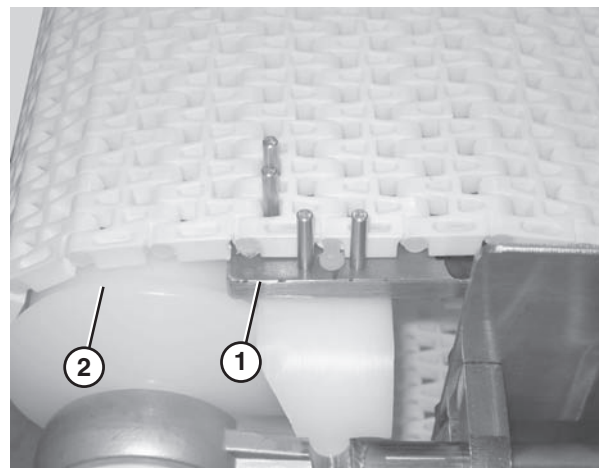


Figure 54

# Preventive Maintenance and Adjustment

3. Use a punch and hammer to push the belt rod out by striking the rod end opposite the retaining head (Figure 55).



Figure 55

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 56, item 1) and sliding it through the large hole (Figure 56, item 2) in the frame.

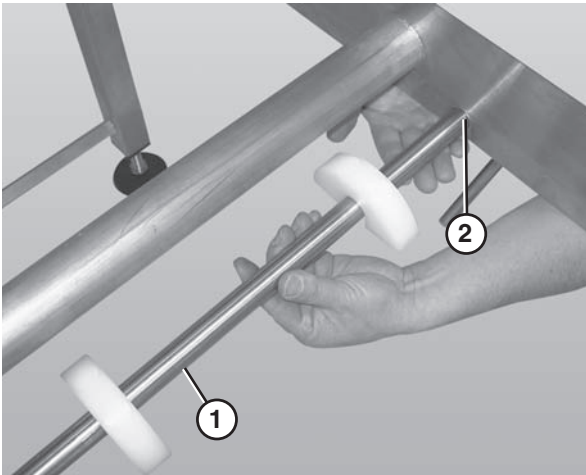


Figure 56

2. Lower the opposite end of the return shaft (Figure 56, item 1) and slide it out of the frame.
3. Follow steps 1 – 3 in "Standard Belts: Replacing a Section of Belt" on page 19.
4. Remove the belt.
5. Replace the damaged or worn belt. Refer to "Belt Installation" on page 15 and "Belt Return Installation" on page 16.

### 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 57).

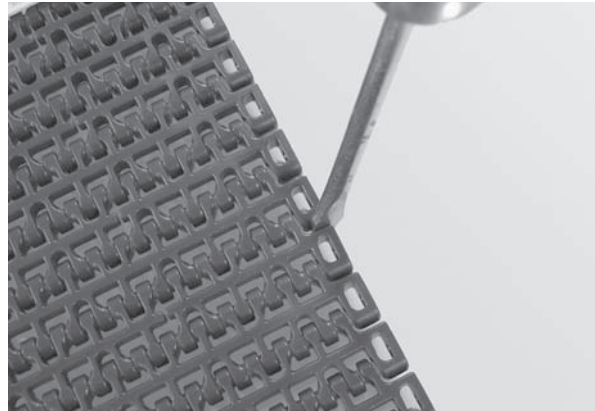


Figure 57

2. Use a second belt rod of the same size to push on the opposite end of the belt rod. (Figure 58).

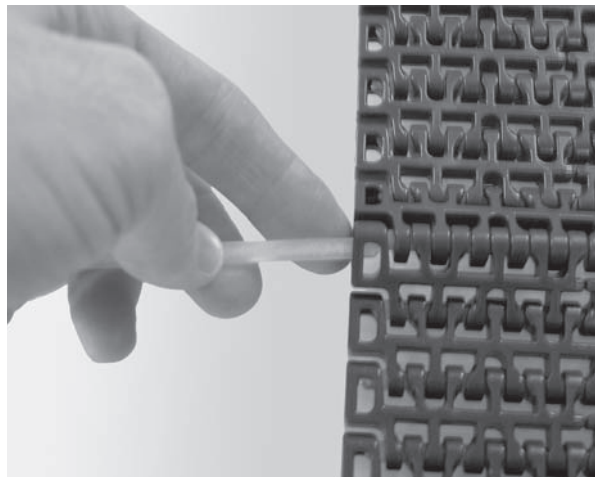


Figure 58

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.

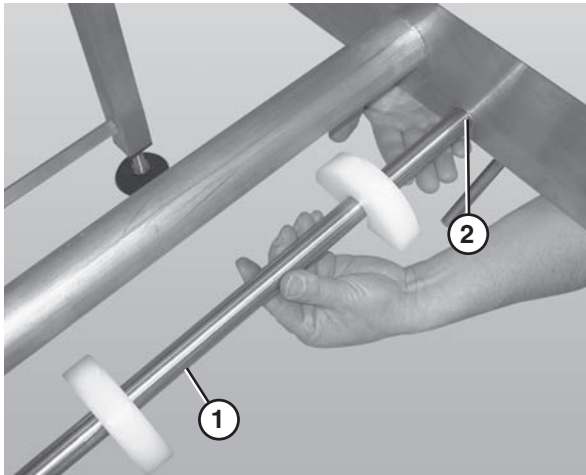
## ⚠ CAUTION

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

# Preventive Maintenance and Adjustment

## Replacing the Entire Belt

1. Remove the belt returns by pushing up on the return shaft (**Figure 59, item 1**) and sliding it through the large hole (**Figure 59, item 2**) in the frame.



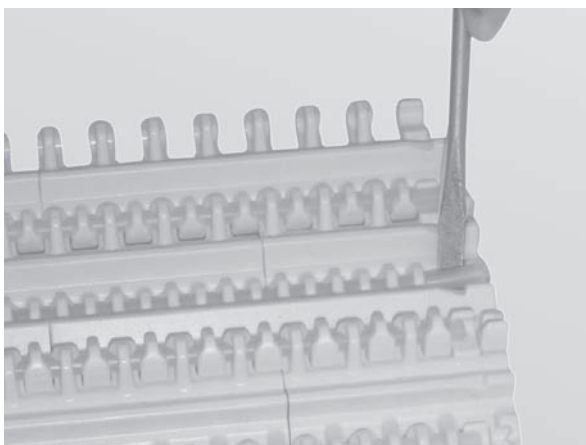
**Figure 59**

2. Lower the opposite end of the return shaft (**Figure 59, item 1**) and slide it out of the frame.
3. Follow steps 1 – 2 in "Specialty Intralox 1100 Series Belts: Replacing a Section of Belt" on page 20.
4. Remove the belt.
5. Replace the damaged or worn belt. Refer to "Belt Installation" on page 15 and "Belt Return Installation" page 16.

## Specialty Intralox 1600 Series Belts

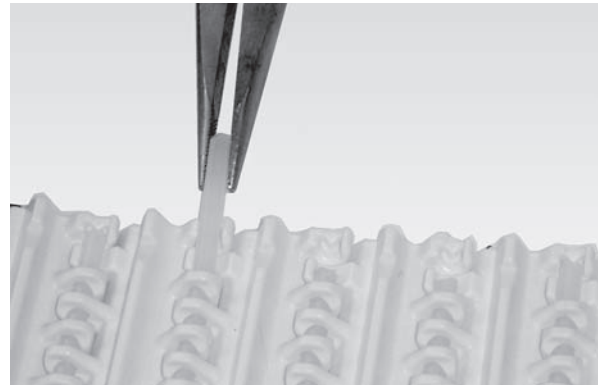
### Replacing a Section of Belt

1. Lift up on the belt to gain access to the underside.
2. Use a flat head screwdriver to raise the end of the belt rod above the retention lip (**Figure 60**).



**Figure 60**

3. Remove the belt rod by gripping the end with a set of pliers and pulling (**Figure 61**).



**Figure 61**

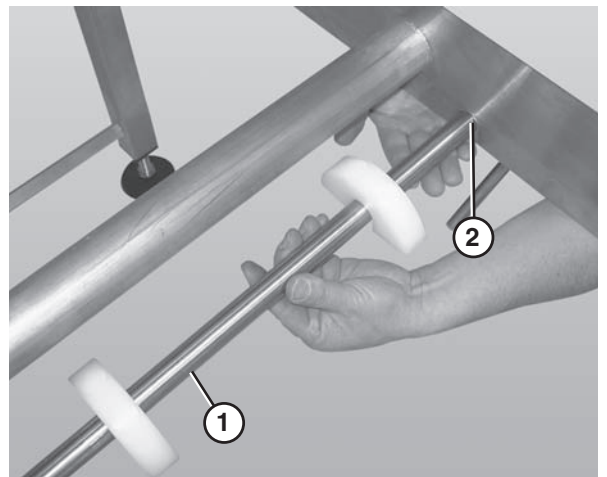
4. Remove the belt rods on both sides of the section of belt being replaced.
5. Replace the old section with a new section of belt.

### **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 62, item 1**) and sliding it through the large hole (**Figure 62, item 2**) in the frame.




**Figure 62**

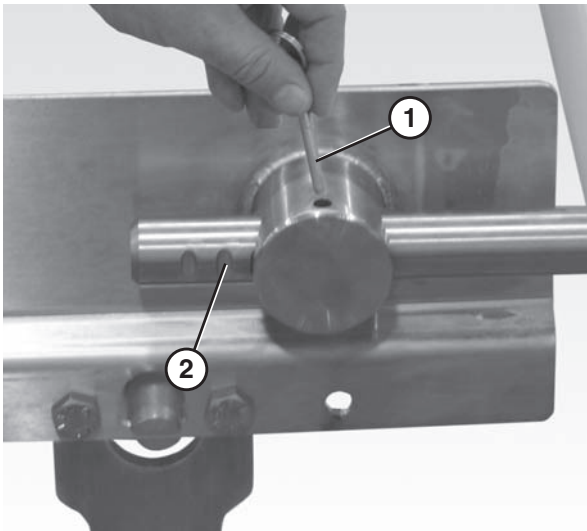
2. Lower the opposite end of the return shaft (**Figure 62, item 1**) and slide it out of the frame.
3. Follow steps 1 – 2 in "Specialty Intralox 1600 Series Belts: Replacing a Section of Belt" on page page 21.
4. Remove the belt.
5. Replace the damaged or worn belt. Refer to "Belt Installation" on page 15 and "Belt Return Installation" page 16.

# Preventive Maintenance and Adjustment

## Conveyor Belt Tensioning

<b>⚠ WARNING</b>

<b>SEVERE HAZARD!</b> LOCK OUT POWER before removing guards or performing maintenance. Exposed moving parts can cause serious injury.
<b>⚠ CAUTION</b>
Belt sag should not exceed 102 mm from the top of the returns.

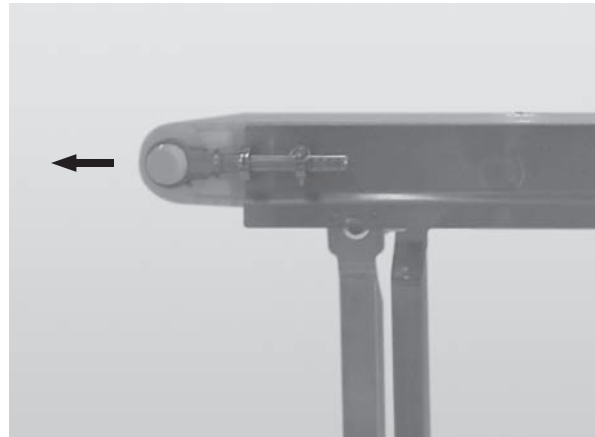
1. Remove both pull pins (**Figure 63, item 1**) on the tension end of the conveyor.



**Figure 63**

2. Extend the idler tail to the next groove (**Figure 63, item 2**) on the bearing shaft.

3. Continue extending the tension end until the belt is sufficiently tight (**Figure 64**).



**Figure 64**

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 19.

## Sprocket and Puck Removal


<b>⚠ WARNING</b>

<b>SEVERE HAZARD!</b> 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” on page 19.
2. Remove the desired sprocket / puck by following these instructions:

- A - Drive Sprocket Removal
- B - Idler Puck Removal

### A - Drive Sprocket Removal

<b>⚠ WARNING</b>

<b>PUNCTURE HAZARD!</b> Handle drive shaft keyway with care. It may be sharp and could puncture the skin, causing serious injury.

# Preventive Maintenance and Adjustment

1. Remove the plastic cap on the end of the motor and remove the socket head screw (Figure 65, item 1) and the bore plug (Figure 65, item 2).

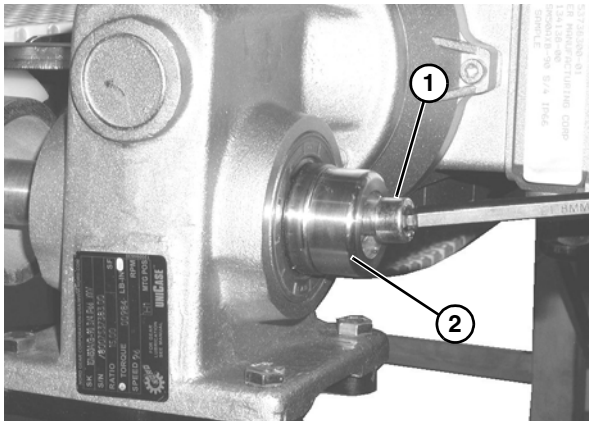


Figure 65

2. Remove the lower gearhead mounting bar (Figure 66, item 1) from the motor mounting bracket (Figure 66, item 2). Remove spacer (Figure 66, item 3).
3. Remove the upper gearhead mounting bar (Figure 66, item 4) from the motor mounting bracket (Figure 66, item 2).

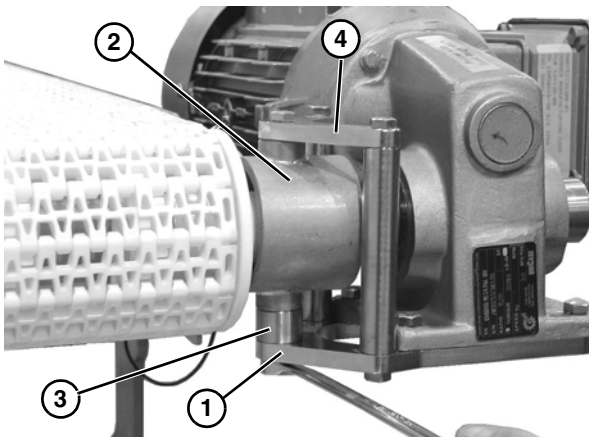


Figure 66

4. Slide the gearmotor (Figure 67, item 1) off of the drive spindle (Figure 67, item 2).

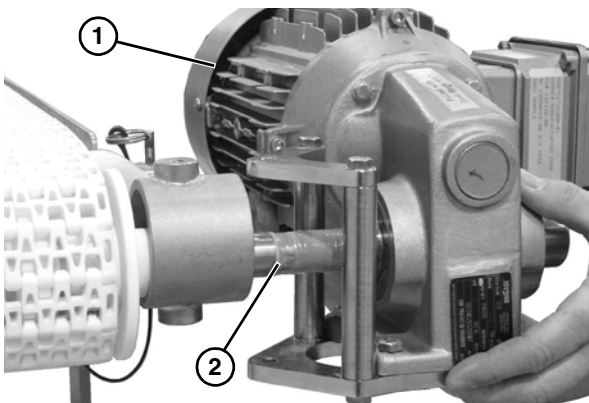


Figure 67

5. Remove the drive spindle key (Figure 68, item 1) from the drive spindle keyway (Figure 68, item 2).

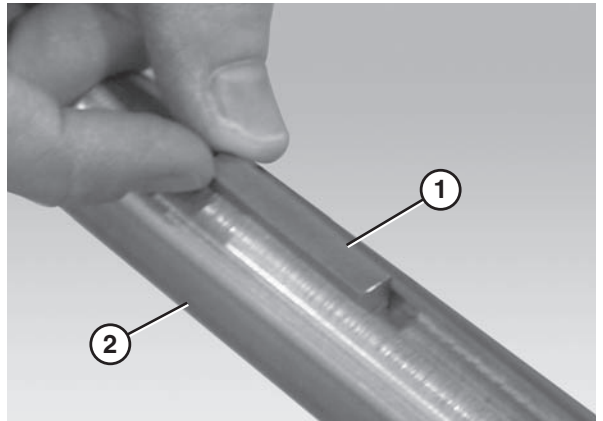


Figure 68

6. Remove the pull pin (Figure 69, item 1).

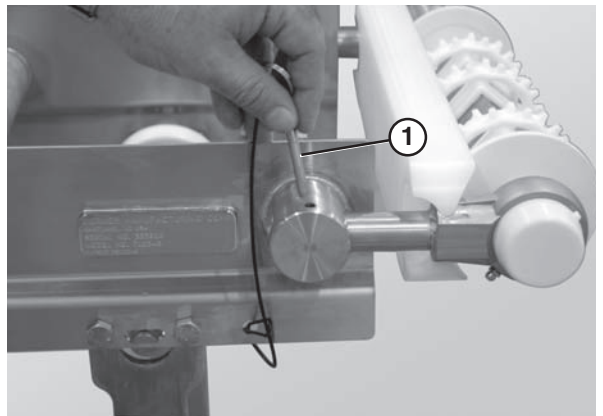


Figure 69

7. Slide the drive tail assembly out of the take up blocks (Figure 70).

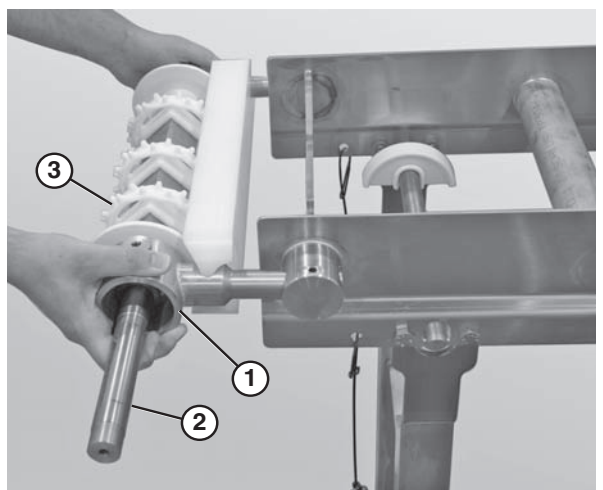


Figure 70

8. Slide the motor support bracket (Figure 70, item 1) off the drive spindle (Figure 70, item 2).
9. Remove the sprockets (Figure 70, item 3).

# Preventive Maintenance and Adjustment

## B - Idler Puck Removal

1. Remove the pull pins (Figure 69, item 1).
2. Slide the idler tail assembly (Figure 71, item 1) out of the take up blocks (Figure 71, item 2).

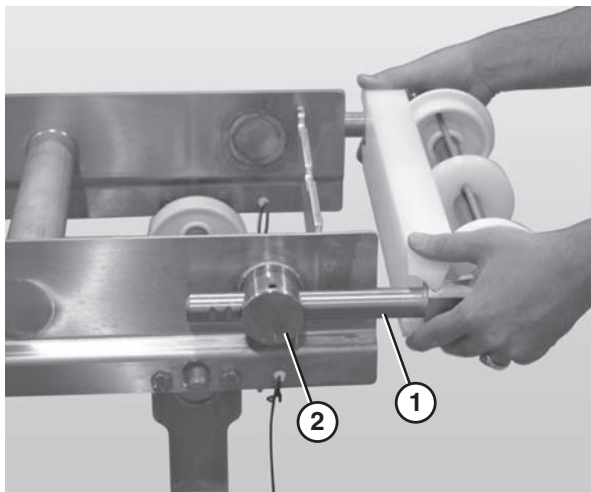


Figure 71

3. Remove the bearing cover (Figure 72, item 1).

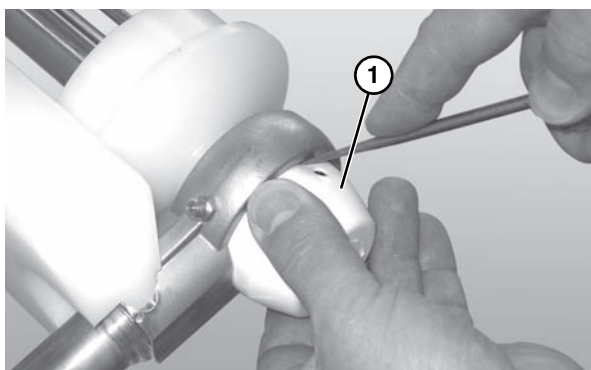


Figure 72

4. Use a hex wrench (Figure 73, item 1) to loosen the bearing shaft assembly fasteners (Figure 73, item 2).

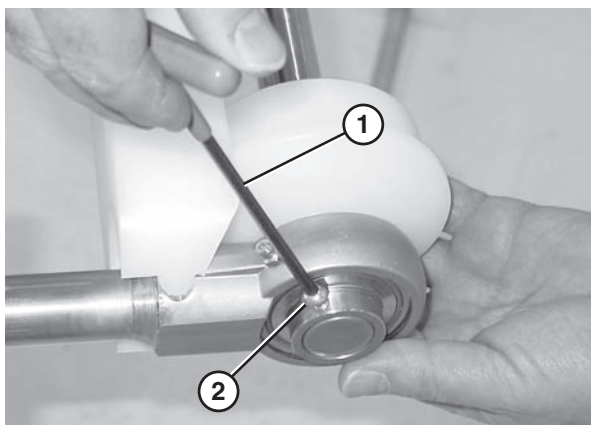


Figure 73

5. Slide the bearing shaft assembly (Figure 74, item 1) off the idler shaft (Figure 74, item 2).

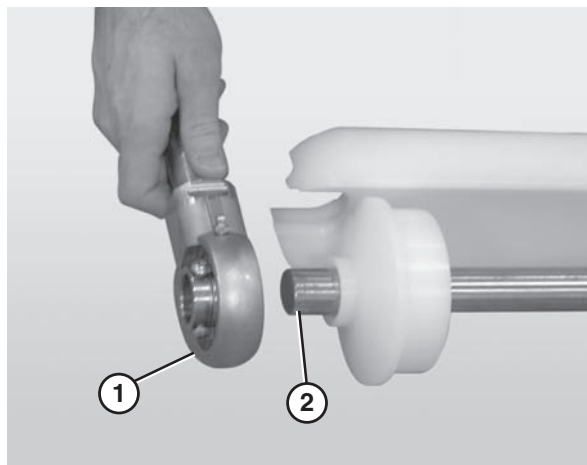


Figure 74

6. Remove the guard bar (Figure 75, item 1).

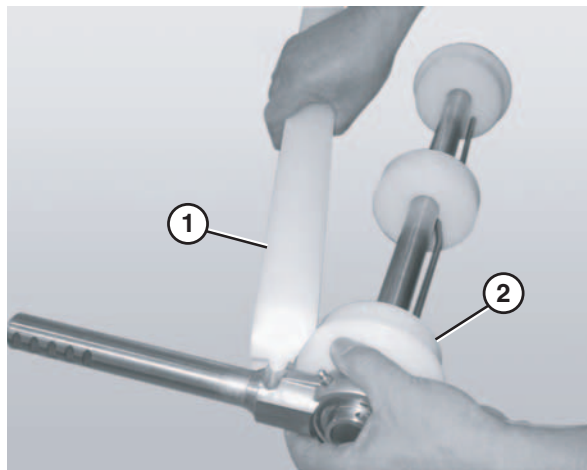


Figure 75

7. Remove the pucks (Figure 75, item 2).



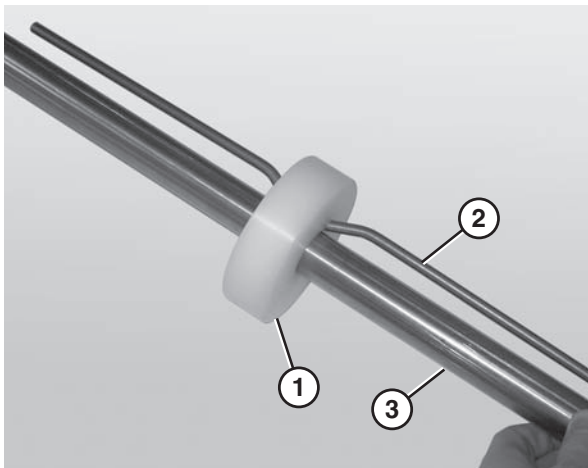
# Preventive Maintenance and Adjustment

## Reassembling Tail Assemblies

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

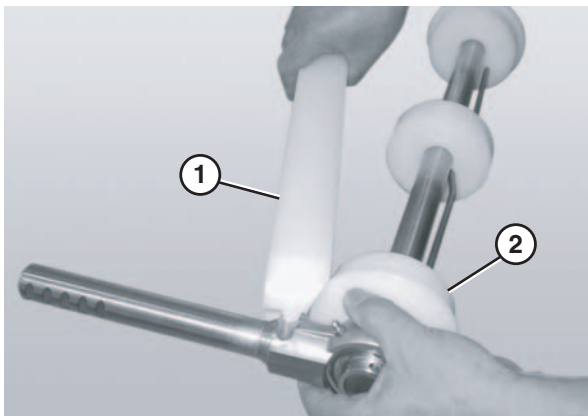
### Idler Tail and Tip Up Tail

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.



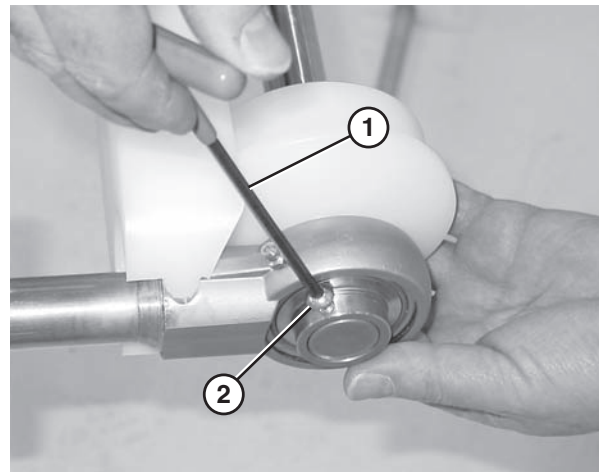
**Figure 76**

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**).



**Figure 77**

5. Use a hex wrench (**Figure 78, item 1**) to tighten the bearing shaft fasteners (**Figure 78, item 2**) to 6 N•m. Check after 24 hours of conveyor use.

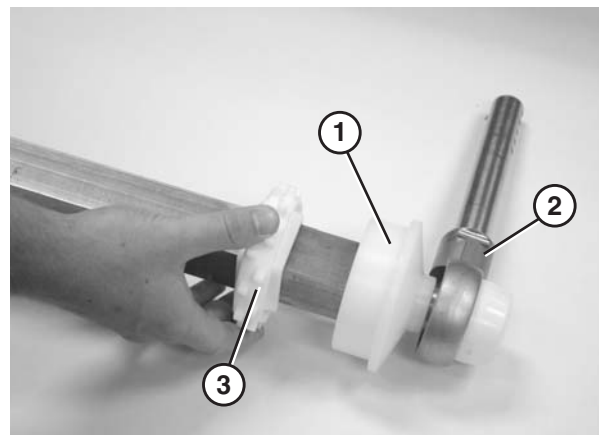


**Figure 78**

6. Attach the bearing covers.

### Drive Tail

1. Attach a flanged puck (**Figure 79, item 1**) and bearing shaft assembly (**Figure 79, item 2**) to the shorter end of the drive spindle.

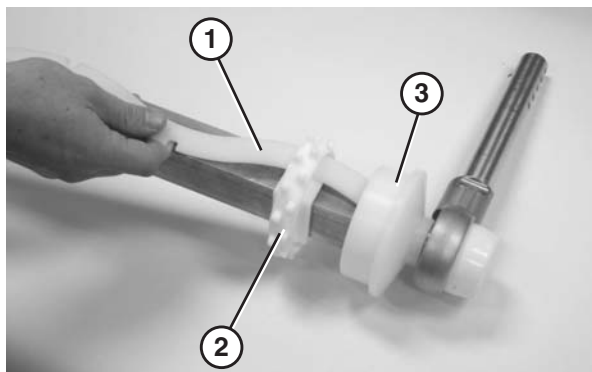


**Figure 79**

2. Slide the first sprocket (**Figure 79, item 3**) onto the drive spindle.

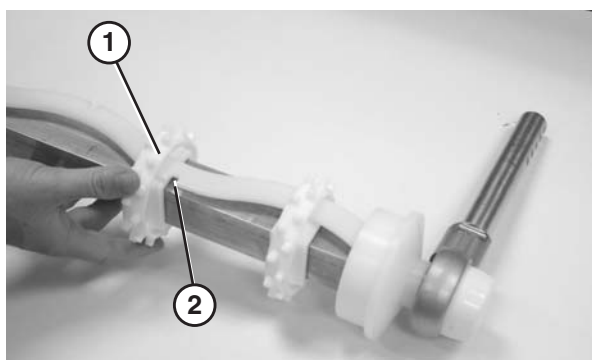
# Preventive Maintenance and Adjustment

3. Insert the sprocket alignment bar (**Figure 80, item 1**) into the first sprocket (**Figure 80, item 2**) resting it up against the flanged puck (**Figure 80, item 3**). Position the first sprocket with the notch in the sprocket alignment bar.



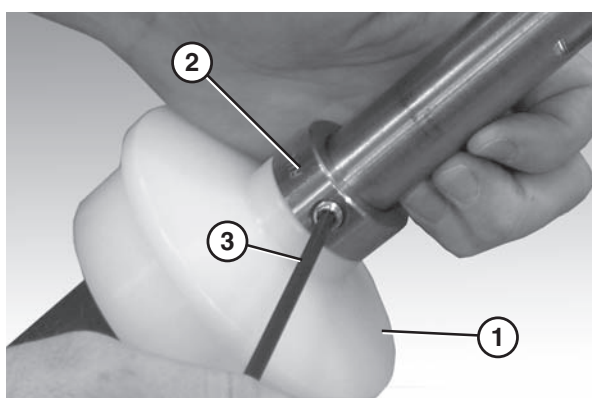
**Figure 80**

4. Install the remaining sprockets (**Figure 81, item 1**) making sure to position each sprocket with the next available notch (**Figure 81, item 2**) in the sprocket alignment bar.



**Figure 81**

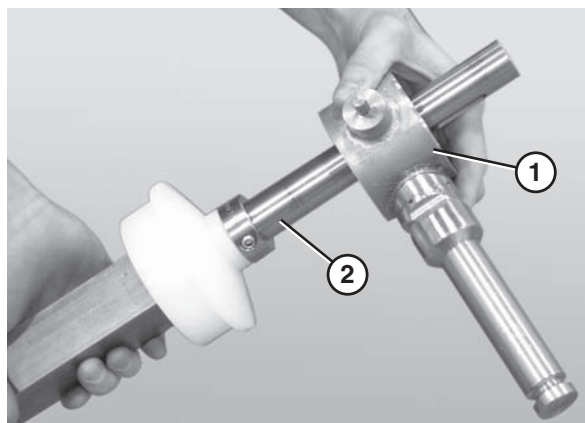
5. Slide the second flanged puck (**Figure 82, item 1**) and the retaining ring (**Figure 82, item 2**) onto the drive spindle.



**Figure 82**

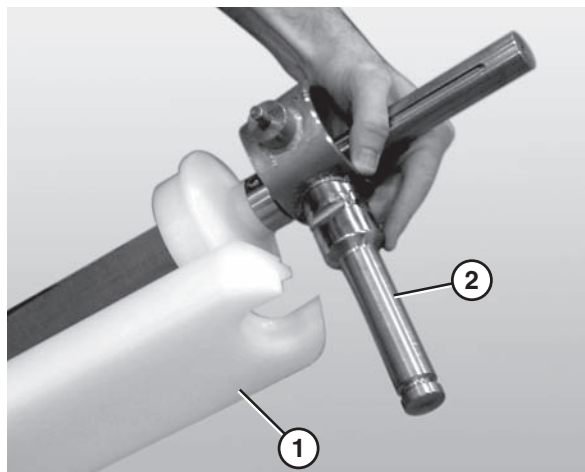
6. Tighten the retainer ring fastener using a hex wrench (**Figure 82, item 3**).

7. Slide the second bearing shaft assembly, or the motor mount bracket (**Figure 83, item 1**), onto the longer end of the drive spindle (**Figure 83, item 2**).



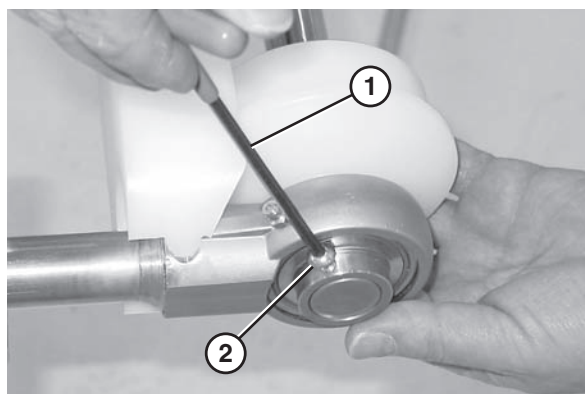
**Figure 83**

8. Attach the guard bar (**Figure 84, item 1**) to the bearing / motor mount bracket shafts (**Figure 84, item 2**).



**Figure 84**

9. Use a hex wrench (**Figure 85, item 1**) to tighten the bearing shaft fasteners (**Figure 85, item 2**) to 6 N•m. Check after 24 hours of conveyor use.



**Figure 85**

10. Attach the bearing covers.

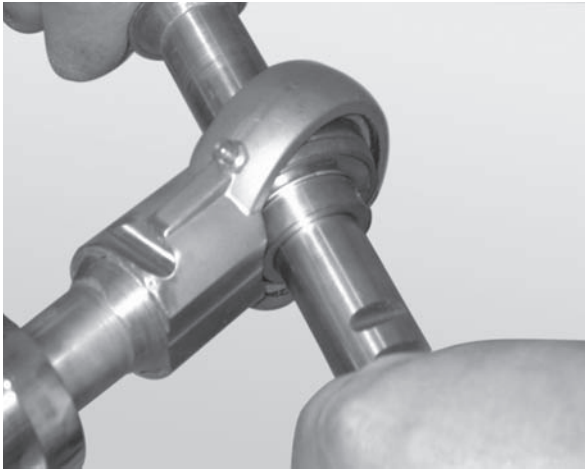
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# Preventive Maintenance and Adjustment

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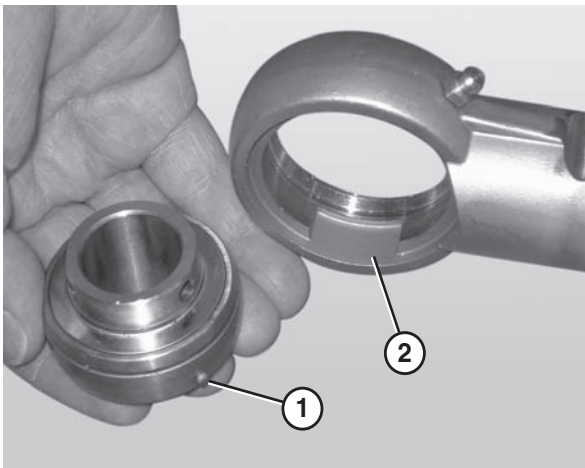
## Bearing Replacement

1. Secure the bearing shaft in the take up blocks.
2. Insert the rod end of a second bearing shaft through the bearing (**Figure 86**).



**Figure 86**

3. Apply lateral pressure to the rod until the bearing comes loose.
4. Remove the worn or damaged bearing (**Figure 87**).



**Figure 87**

5. Replace the bearing.

### NOTE

*When inserting the new bearing, make sure the anti-rotation notch (**Figure 87, item 1**) on the bearing lines up with the groove inside the housing (**Figure 87, item 2**).*

## LPZ Knuckles

### Wearstrips and Belt Returns


Replace the wearstrips and belt returns if they become worn.

For wearstrip and belt return installation instructions:

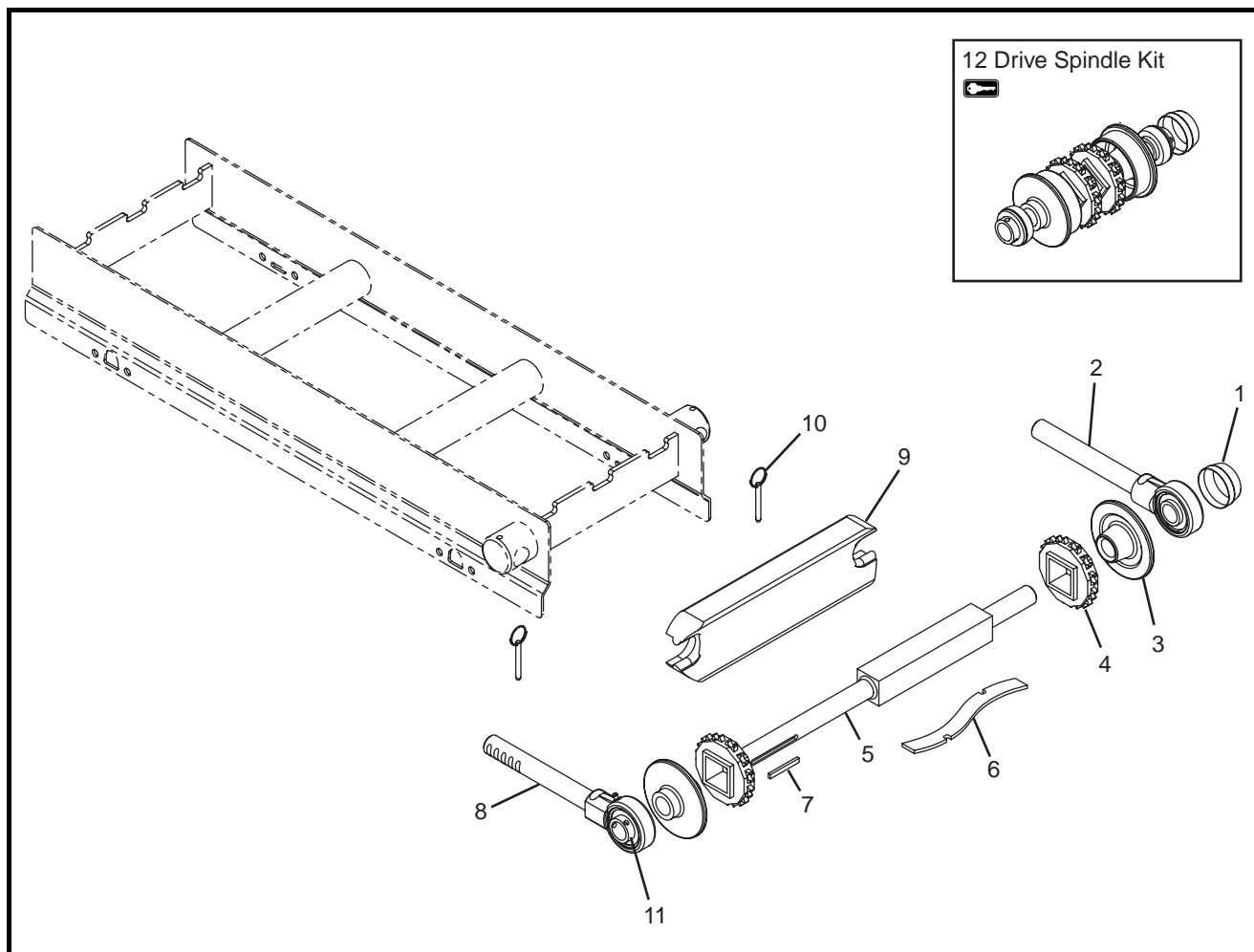
- For wearstrips, replace as needed, making sure wear strips are situated securely in the frame slots.
- For belt returns, Refer to “Belt Return Installation” on page 16.

# 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.

## Drive End Components



Item	Part Number	Description
1	807-1454	Bearing Cover
2	500078	Shaft Assembly with Bearing
3	5053WW	Flanged Puck, Drive Tail for Standard Belt
	5071WW	Flanged Puck, Drive Tail for Specialty Intralox Belt
4	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
5	5295WW	Drive Spindle for Standard Belt
	5294WW	Drive Spindle for Specialty Intralox Belt

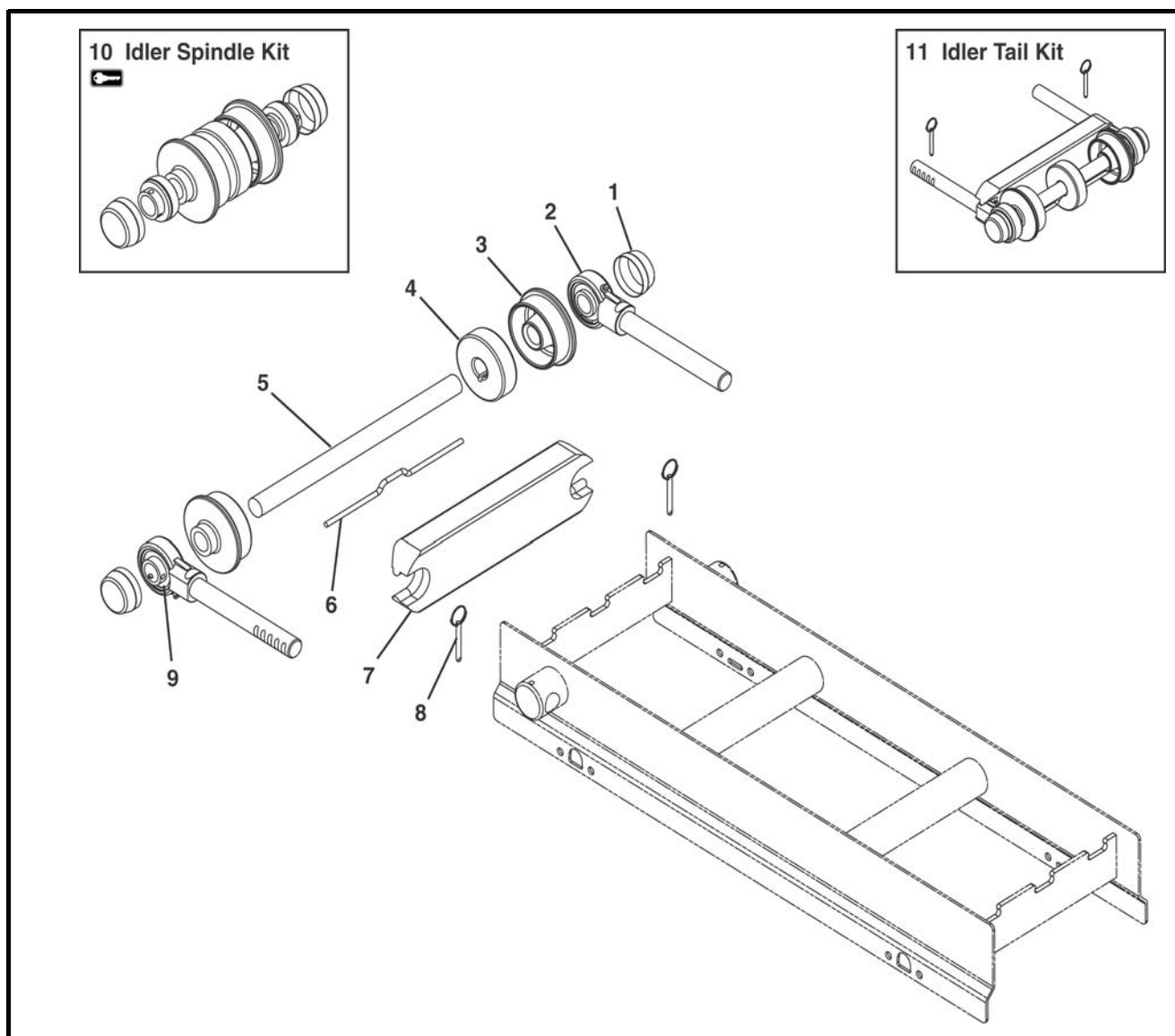
Item	Part Number	Description
6	5085WW	Sprocket Alignment Bar for Standard 1.00" Pitch Belt
	5087WW	Sprocket Alignment Bar for Specialty Intralox .60" Pitch Belt
	5088WW	Sprocket Alignment Bar for Specialty Intralox 1.00" Pitch Belt
7	912-111SS	Square Key .25x2.50"
8 *	500078	Shaft Assembly with Bearing
9	5009WW	Guard Bar
10	807-1424	Pull Pin
11	802-162	Bearing

Item	Part Number	Description
	74DD25- <u>WW</u>	Drive Spindle Kit when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Standard 1.00" Pitch Belt (Includes Items 1, 3, 4 and 11)
	74DD11- <u>WW</u>	Drive Spindle Kit when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Specialty Intralox .60" Pitch Belt (Includes Items 1, 3, 4 and 11)
	74DD16- <u>WW</u>	Drive Spindle Kit when Conveyor is ordered with a Dorner Gearmotor Mounting Package for Specialty Intralox 1.00" Pitch Belt (Includes Items 1, 3, 4 and 11)
	74DC25- <u>WW</u>	Drive Spindle Kit when Conveyor is ordered without a Dorner Gearmotor Mounting Package for Standard 1.00" Pitch Belt (Includes Items 1, 3, 4 and 11)
	74DC11- <u>WW</u>	Drive Spindle Kit when Conveyor is ordered without a Dorner Gearmotor Mounting Package for Specialty Intralox .60" Pitch Belt (Includes Items 1, 3, 4 and 11)
	74DC16- <u>WW</u>	Drive Spindle Kit when Conveyor is ordered without a Dorner Gearmotor Mounting Package for Specialty Intralox 1.00" Pitch Belt (Includes Items 1, 3, 4 and 11)
<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
152 mm	2
203 mm	2
254 mm	3
305 mm	3
356 mm	4
406 mm	4
457 mm	5
508 mm	5
559 mm	6
610 mm	6
660 mm	7
711 mm	7
762 mm	8
813 mm	8
864 mm	9
914 mm	9
965 mm	10
1016 mm	10
1067 mm	11
1118 mm	11
1168 mm	12
1219 mm	12
1270 mm	13
1321 mm	13
1372 mm	14
1422 mm	14
1473 mm	15
1524 mm	15

# Service Parts

## Tension End Components

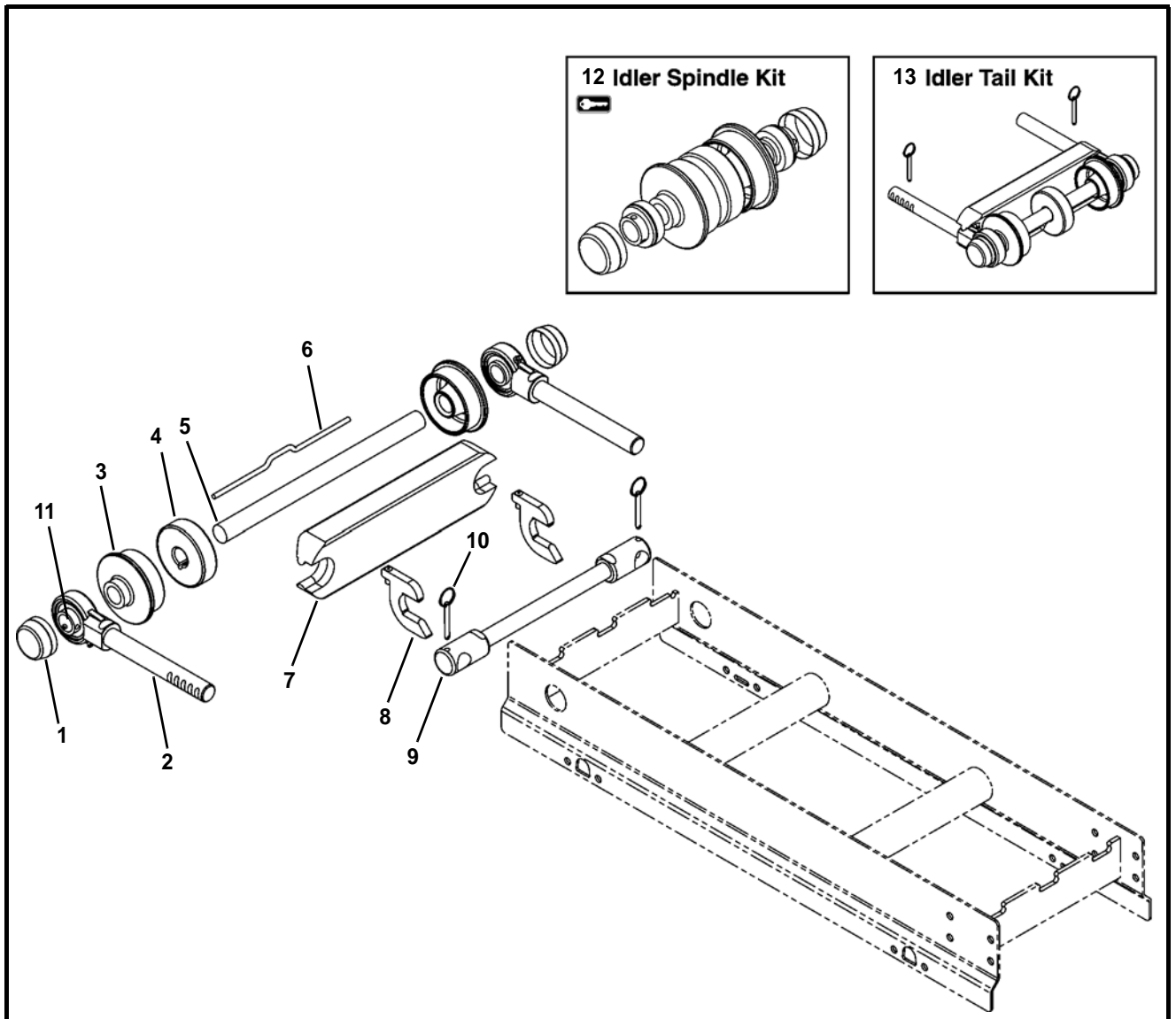


Item	Part Number	Description
1	807-1454	Bearing Cover
2	500079	Shaft Assembly with Bearing
3	5017 <del>WW</del>	Flanged Puck, Idler Tail for Standard Belt
	5072 <del>WW</del>	Flanged Puck, Idler Tail for Specialty Intralox Belt
4	500175	Idler Puck (for 8" - 60" wide conveyors only)
5	5007 <del>WW</del>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

Item	Part Number	Description
7	5009 <del>WW</del>	Guard Bar
8	807-1469	Pull Pin
9	802-162	Bearing
	74I- <del>WW</del>	Idler Spindle Kit for Standard Belt (Includes Items 1, 3, 4 and 9)
	74IS- <del>WW</del>	Idler Spindle Kit for Specialty Intralox Belt (Includes Items 1, 3, 4 and 9)
11	74IT- <del>WW</del>	Idler Tail Kit for Standard Belt (Includes Items 1 through 8)
	74ITS- <del>WW</del>	Idler Tail Kit for Specialty Intralox Belt (Includes Items 1 through 8)

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

## Tip Up Tension End



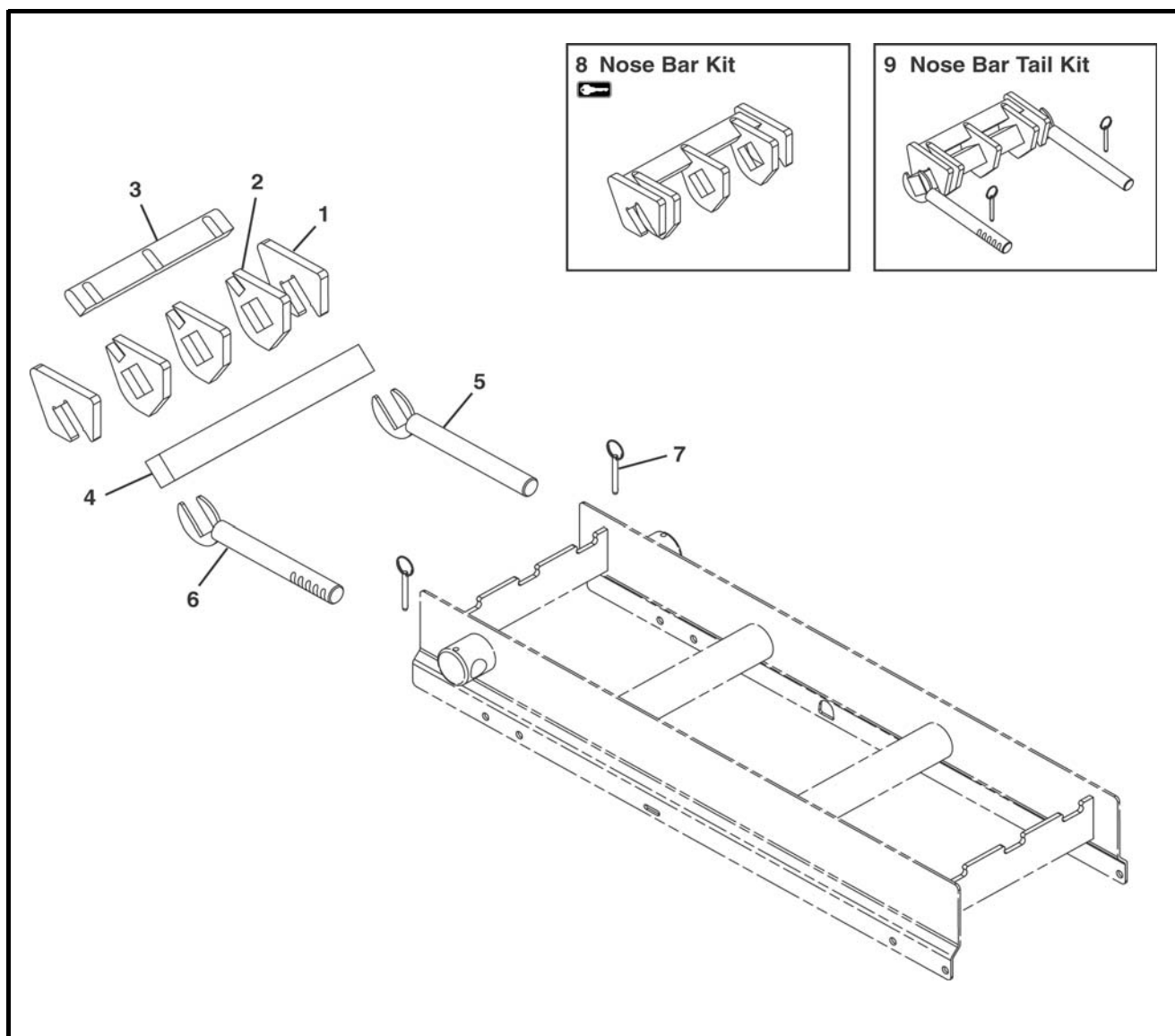
Item	Part Number	Description
1	807-1454	Bearing Cover
2	500079	Shaft Assembly with Bearing
3	5017 <del>WW</del>	Flanged Puck, Idler Tail for Standard Belt
	5072 <del>WW</del>	Flanged Puck, Idler Tail for Specialty Intralox Belt
4	500175	Idler Puck (for 8" - 60" wide conveyors only)
5	5007 <del>WW</del>	Idler Shaft
6	5008 <del>WW</del>	Bent Retaining Bar for Standard Belt (for 8" - 60" wide conveyors only)
	5073 <del>WW</del>	Bent Retaining Bar for Specialty Intralox Belt (for 8" - 60" wide conveyors only)
7	5009 <del>WW</del>	Guard Bar
8	500675	Key Stop
9	5005 <del>WW</del>	Tip Up Shaft Assembly

Item	Part Number	Description
10	807-1469	Pull Pin
11	802-162	Bearing
12	74I- <del>WW</del>	Idler Spindle Kit, for Standard Belt (Includes Items 1, 3, 4 and 11)
	74IS- <del>WW</del>	Idler Spindle Kit, for Specialty Intralox Belt (Includes Items 1, 3, 4 and 11)
13	74IT- <del>WW</del>	Idler Tail Kit, for Standard Belt (Includes Items 1 through 7 and 10)
	74ITS- <del>WW</del>	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

## Nose Bar Tension End



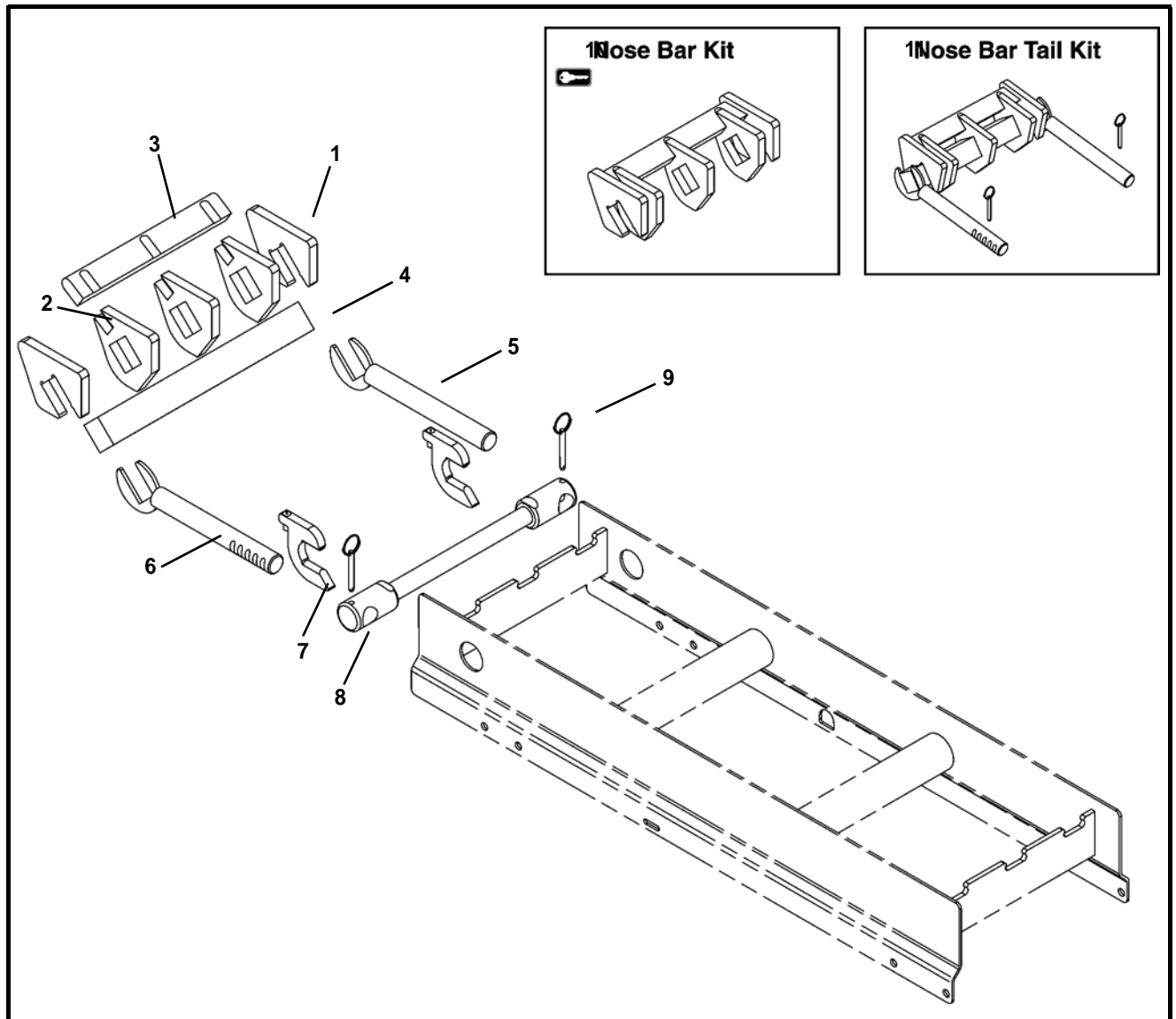
Item	Part Number	Description
1	500490	Nose Bar Tracking Puck
2	500278	Nose Bar Puck
3	5056 <del>WW</del>	.5" Pitch Nose Bar Wear Strip
	5058 <del>WW</del>	1" Pitch Nose Bar Wear Strip
4	5037 <del>WW</del>	Nose Bar Transfer Post for Standard Belt
	5076 <del>WW</del>	Nose Bar Transfer Post for Specialty 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- <del>WW</del>	.5" Nose Bar Kit (Includes Items 1 through 3)
	74NB1- <del>WW</del>	1" Nose Bar Kit (Includes Items 1 through 3)

Item	Part Number	Description
9	74NBT5- <del>WW</del>	.5" Nose Bar Tail Kit, for Standard Belt (Includes Items 1 through 6)
	74NBT1- <del>WW</del>	1" Nose Bar Tail Kit, for Standard Belt (Includes Items 1 through 6)
	74NBT5S- <del>WW</del>	.5" Nose Bar Tail Kit, for Specialty Intralox Belt (Includes Items 1 through 6)
	74NBT1S- <del>WW</del>	1" Nose Bar Tail Kit, for Specialty Intralox Belt (Includes Items 1 through 6)

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



## Nose Bar Tip Up Tension End



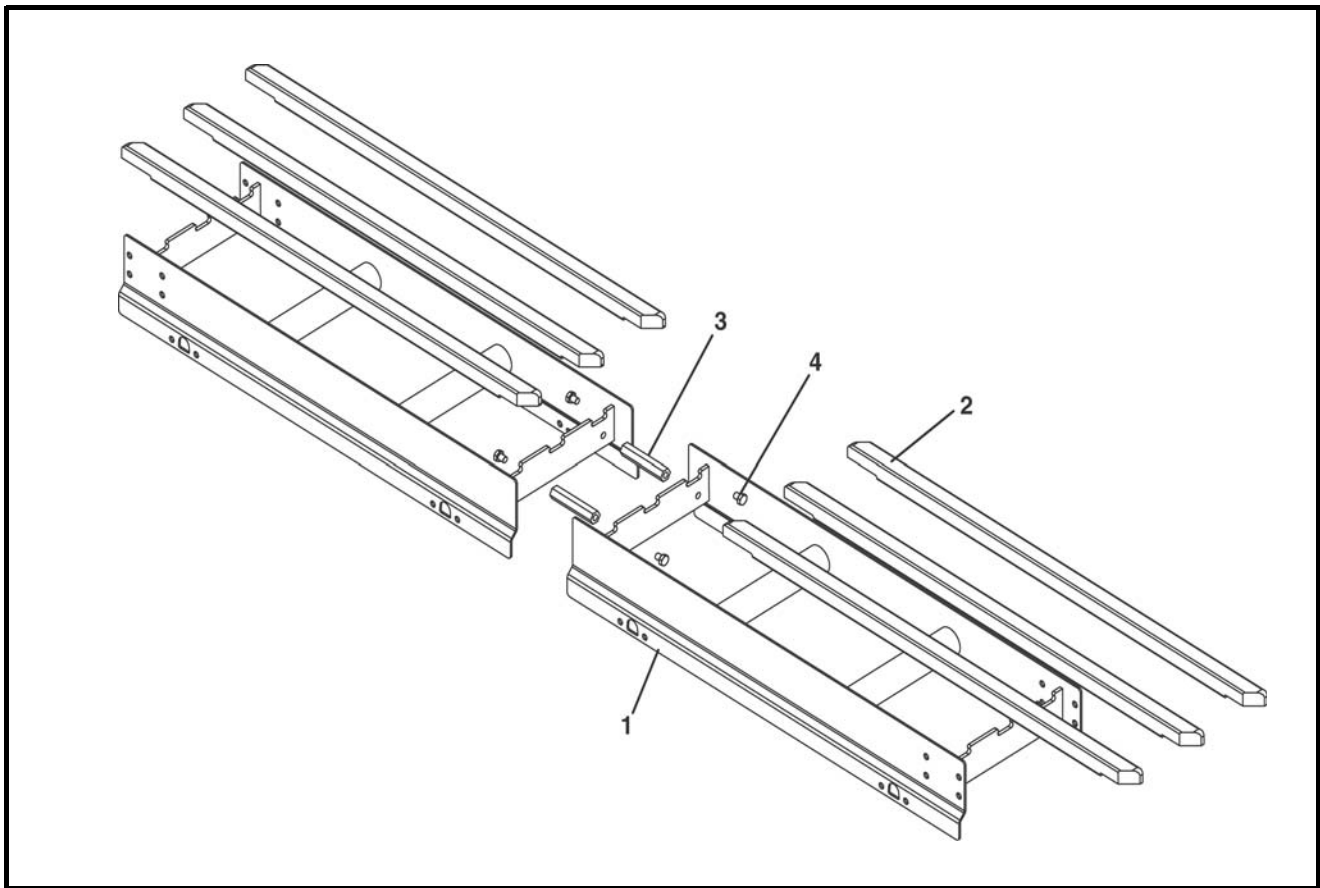
Item	Part Number	Description
1	500490	Nose Bar Tracking Puck
2	500278	Nose Bar Puck
3	5056 <del>WW</del>	.5" Pitch Nose Bar Wear Strip
	5058 <del>WW</del>	1" Pitch Nose Bar Wear Strip
4	5037 <del>WW</del>	Nose Bar Transfer Post for Standard Belt
	5076 <del>WW</del>	Nose Bar Transfer Post for Specialty Intralox Belt
5	500487	Nose Bar Idler Shaft Left Hand
6	500488	Nose Bar Idler Shaft Right Hand
7	500675	Key Stop
8	5005 <del>WW</del>	Tip Up Shaft Assembly

Item	Part Number	Description
9	807-1469	Pull Pin
10	74NB5- <del>WW</del>	.5" Nose Bar Kit (Includes Items 1 through 3)
	74NB1- <del>WW</del>	1" Nose Bar Kit (Includes Items 1 through 3)
11	74NBT5- <del>WW</del>	.5" Nose Bar Tail Kit, for Standard Belt (Includes Items 1 through 6)
	74NBT1- <del>WW</del>	1" Nose Bar Tail Kit, for Standard Belt (Includes Items 1 through 6)
	74NBT5S- <del>WW</del>	.5" Nose Bar Tail Kit, for Specialty Intralox Belt (Includes Items 1 through 6 and 9)
	74NBT1S- <del>WW</del>	1" Nose Bar Tail Kit, for Specialty Intralox Belt (Includes Items 1 through 6 and 9)

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

# Service Parts

## Conveyor Frame and Extension



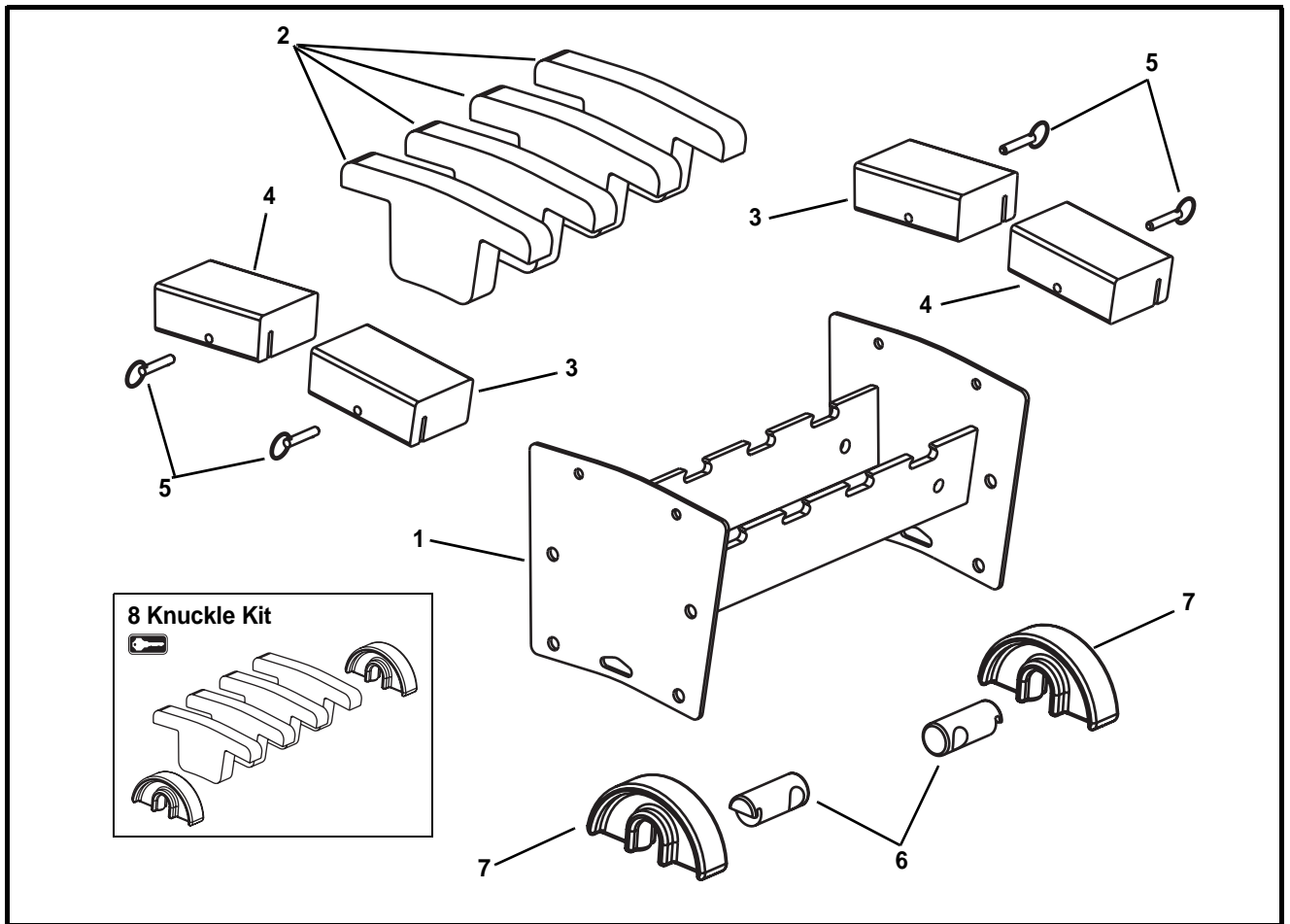
Item	Part Number	Description
1	-----	Consult Factory for Frame Part Number
2	501800-LLL	Straight Wear Strip
3	500193	Hex Post Connector
4	961016MSS	Hex Head Cap Screw M10-1.5x16mm

LLL = Conveyor length ref: 036 - 999 in 001 increments

		Wear Strip Quantity (Item 2)							
		Conveyor Length (LLL)							
		036-132	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)							
		036-132	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	

## Upper Knuckle for 5° - 15°



Item	Part Number	Description
1	5224 <u>WW</u>	Frame Assembly for 5° Knuckle
	5225 <u>WW</u>	Frame Assembly for 10° Knuckle
	5226 <u>WW</u>	Frame Assembly for 15° Knuckle
2	501695- <u>AA</u>	Wear Strips for 5° - 15° Knuckle
3	501893- <u>AA</u>	38 mm Hold Down Guide for 5° - 15° Knuckle Right Hand 6"-16" wide
	501685- <u>AA</u>	38 mm Hold Down Guide for 5° - 15° Knuckle Right Hand 18"-24" wide
	501883- <u>AA</u>	76 mm Hold Down Guide for 5° - 15° Knuckle Right Hand 6"-16" wide
	501684- <u>AA</u>	38 mm Hold Down Guide for 5° - 15° Knuckle Right Hand 18"-24" wide

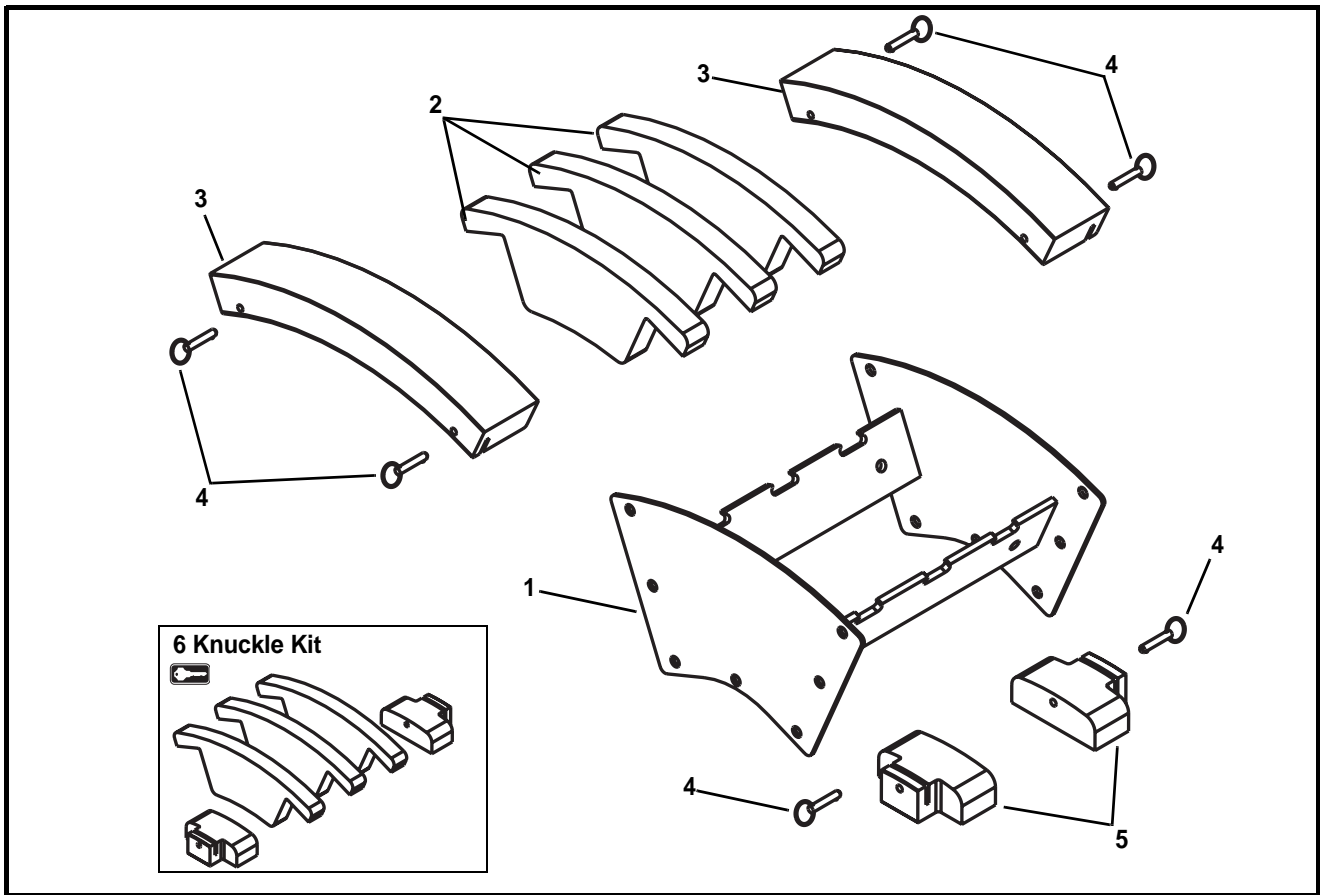
Item	Part Number	Description
4	501699- <u>AA</u>	38 mm Hold Down Guide for 5° - 15° Knuckle Left Hand 6"-16" wide
	501687- <u>AA</u>	38 mm Hold Down Guide for 5° - 15° Knuckle Left Hand 18"-24" wide
	501698- <u>AA</u>	76 mm Hold Down Guide for 5° - 15° Knuckle Left Hand 6"-16" wide
	501686- <u>AA</u>	76 mm Hold Down Guide for 5° - 15° Knuckle Left Hand 18"-24" wide
5	807-1553	Pull Pin
6	500196	Return Shaft
7	500075	Return Shoe
8	74UKL- <u>WW-AA</u>	Upper Knuckle Kit (Includes items 2 and 7)

WW = Conveyor width ref: 06 - 24 in 02 increments

AA = Angle 05, 10 or 15

# Service Parts

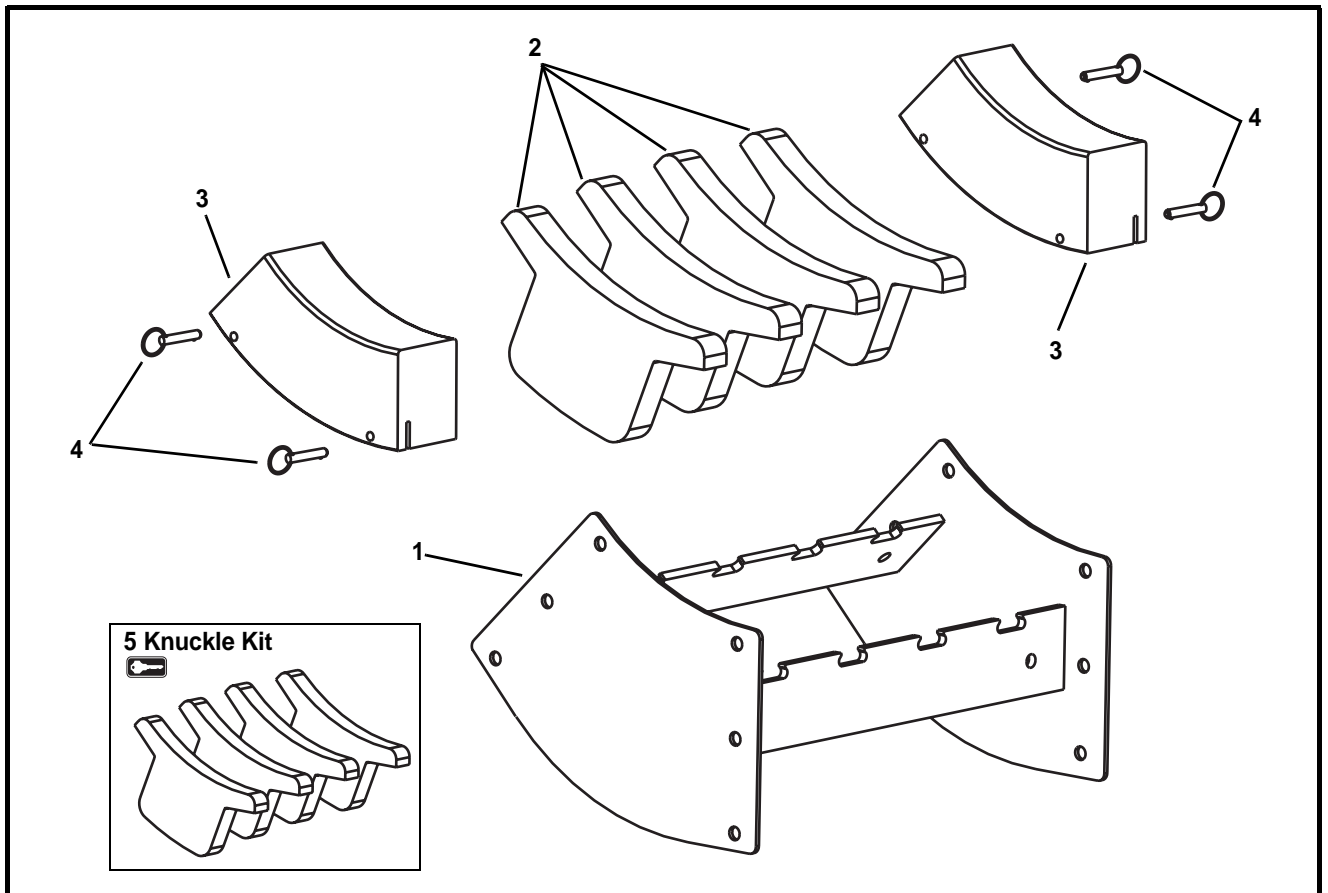
## Upper Knuckle for 30° - 60°



Item	Part Number	Description
1	5227WW	Frame Assembly for 30° Knuckle
	5228WW	Frame Assembly for 45° Knuckle
	5229WW	Frame Assembly for 60° Knuckle
2	501693-AA	Wear Strips for 30° - 60° Knuckle
3	501697-AA	38 mm Hold Down Guide for 30° - 60° Knuckle
	501879-AA	76 mm Hold Down Guide for 30° - 60° Knuckle

Item	Part Number	Description
4	807-1553	Pull Pin
5	501683	Return Guide
6	74UKH-WW-AA	Upper Knuckle Kit (Includes items 2 and 5)
WW = Conveyor width ref: 06 - 24 in 02 increments		
AA = Angle 30, 45 or 60		

## Lower Knuckle for 5° - 15°

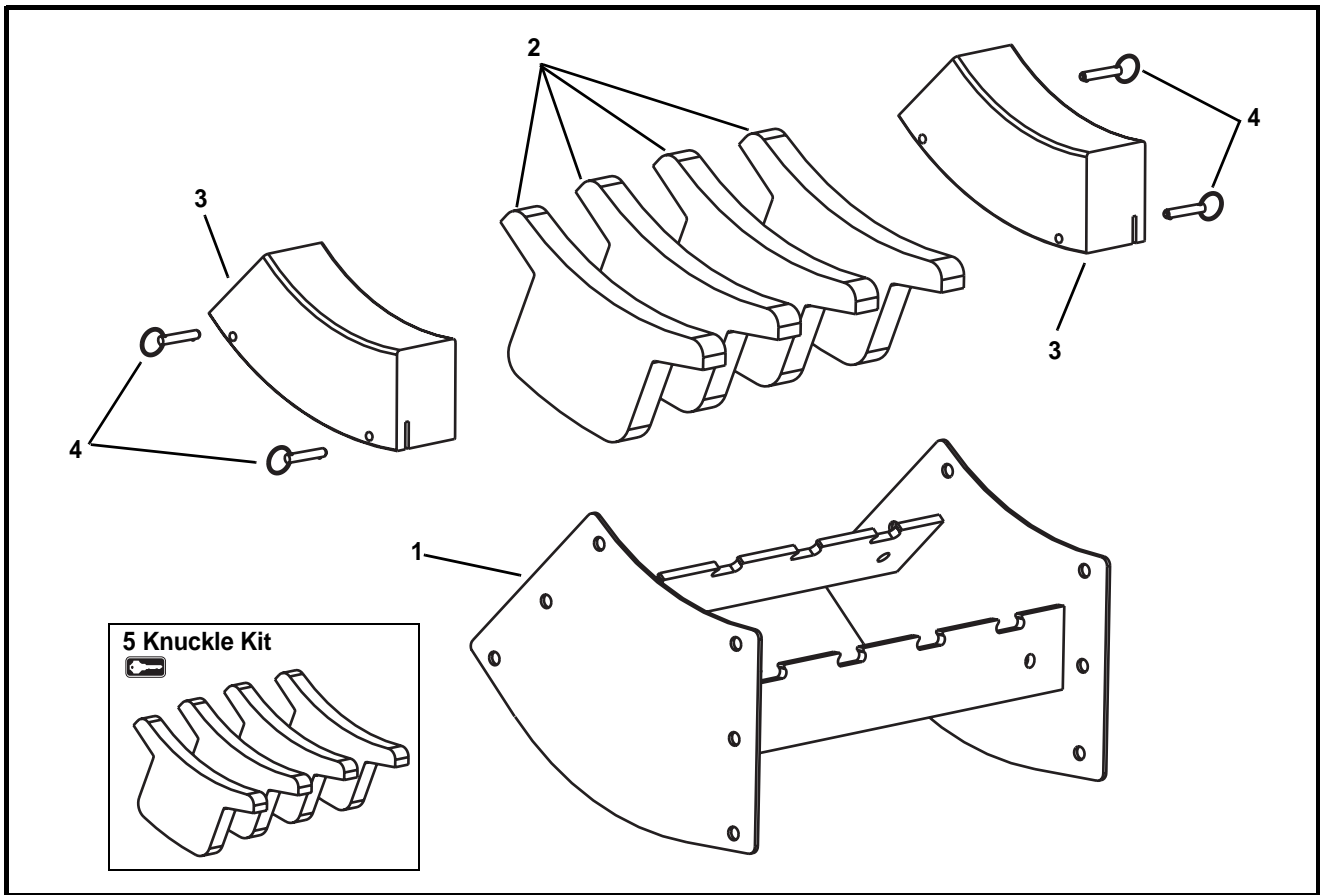


Item	Part Number	Description
1	5218 <u>WW</u>	Frame Assembly for 5° Knuckle
	5219 <u>WW</u>	Frame Assembly for 10° Knuckle
	5220 <u>WW</u>	Frame Assembly for 15° Knuckle
2	501694- <u>AA</u>	Wear Strips for 5° - 15° Knuckle
3	501692- <u>AA</u>	38 mm Hold Down Guide for 5° - 15° Knuckle 6"-16" wide
	501974- <u>AA</u>	38 mm Hold Down Guide for 5° - 15° Knuckle 18"-24" wide
	501878- <u>AA</u>	76 mm Hold Down Guide for 5° - 15° Knuckle 6"-16" wide
	501973- <u>AA</u>	76 mm Hold Down Guide for 5° - 15° Knuckle 18"-24" wide

Item	Part Number	Description
4	807-1553	Pull Pin
5	74LKL- <u>WW</u> - <u>AA</u>	Lower Knuckle Kit (Includes item 2)
<u>WW</u> = Conveyor width ref: 06 - 24 in 02 increments		
<u>AA</u> = Angle 05, 10 or 15		

# Service Parts

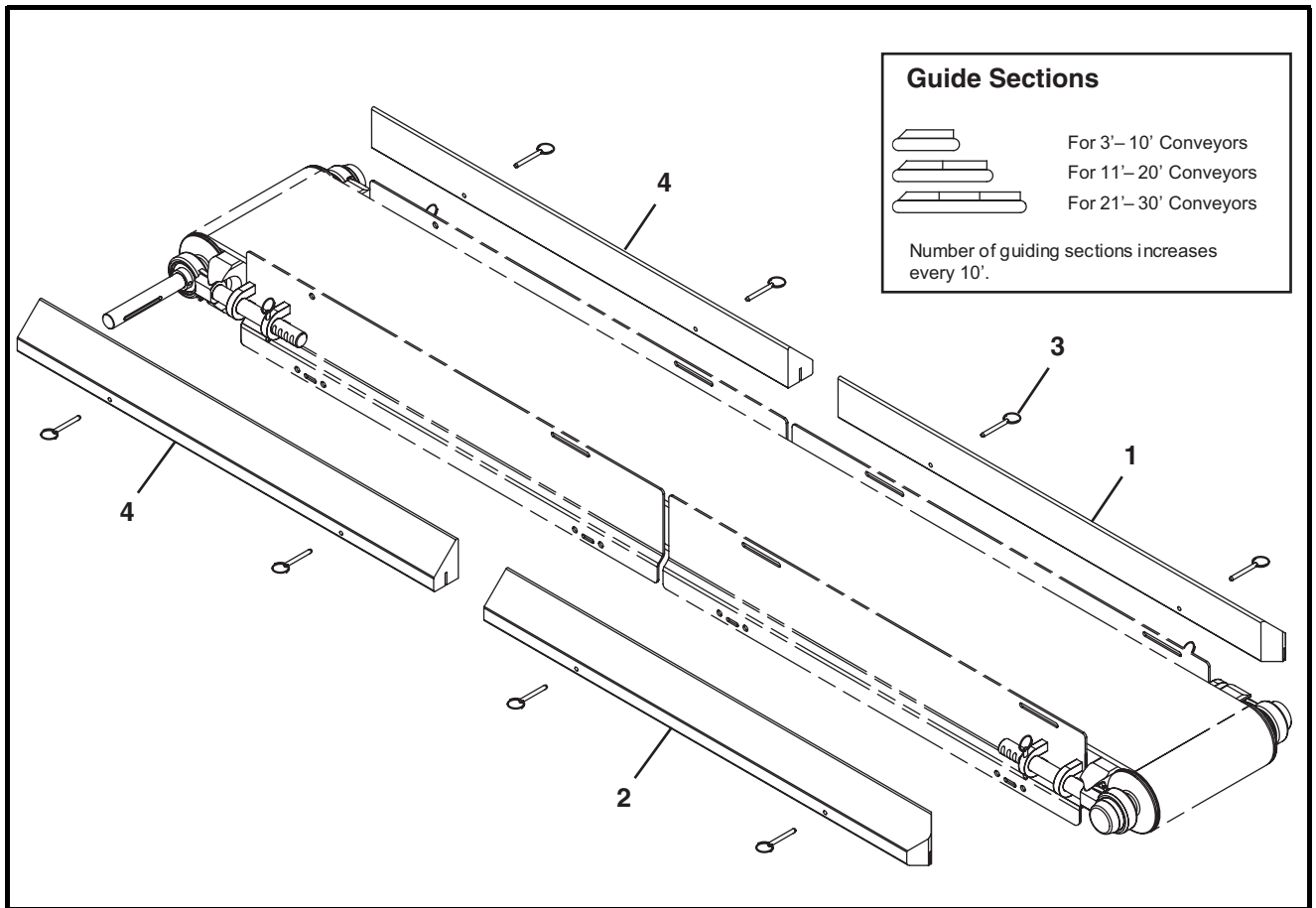
## Lower Knuckle for 30° - 60°



Item	Part Number	Description
1	5221WW	Frame Assembly for 30° Knuckle
	5222WW	Frame Assembly for 45° Knuckle
	5223WW	Frame Assembly for 60° Knuckle
2	501691-AA	Wear Strips for 30° - 60° Knuckle
3	501692-AA	38 mm Hold Down Guide for 30° - 60° Knuckle
	501878-AA	76 mm Hold Down Guide for 30° - 60° Knuckle

Item	Part Number	Description
4	807-1553	Pull Pin
5	74LKH-WW-AA	Lower Knuckle Kit (Includes item 2)
WW = Conveyor width ref: 06 - 24 in 02 increments		
AA = Angle 30, 45 or 60		

## 76 mm High Sides

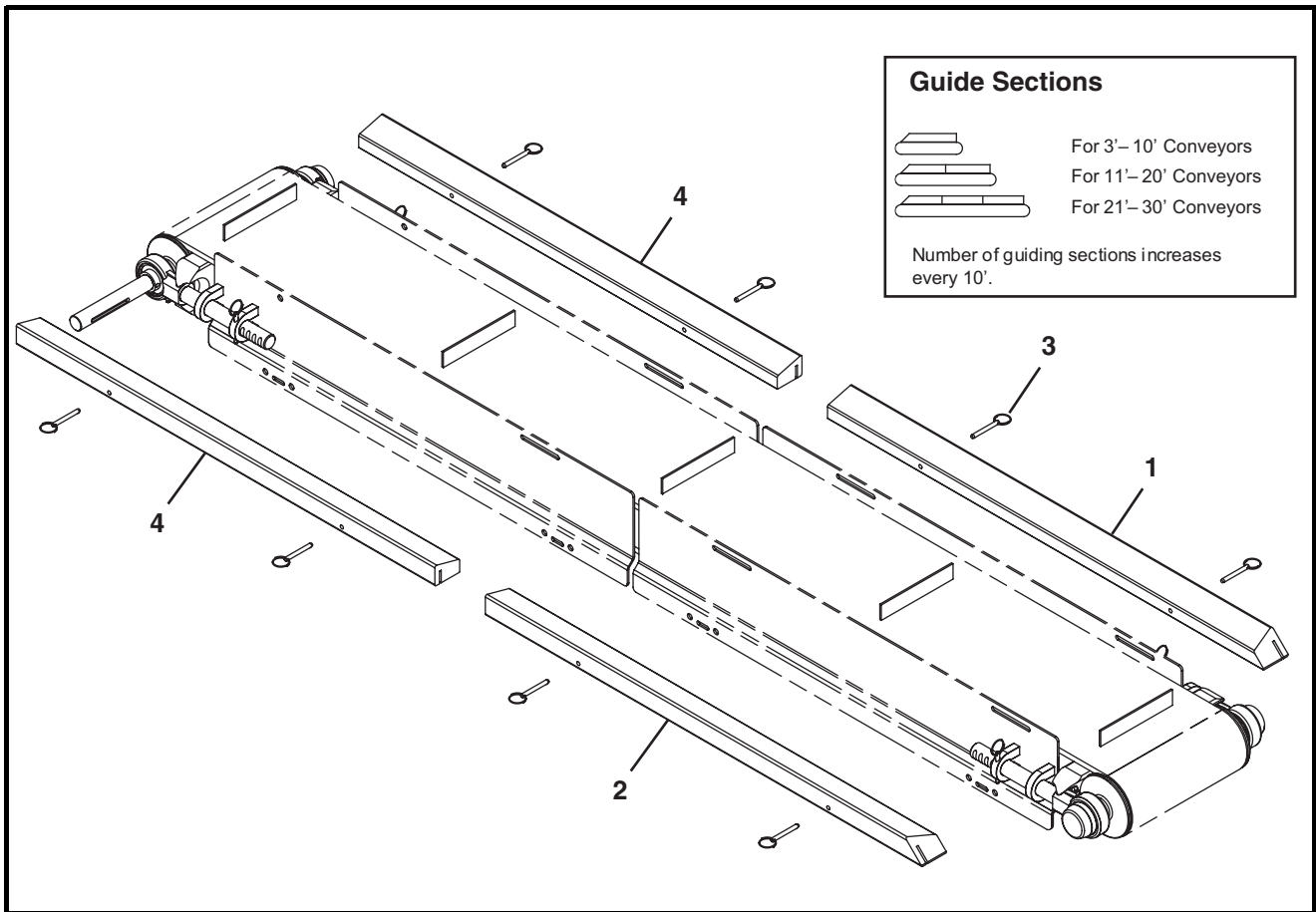


Item	Part Number	Description
1	503501-LLLLL	Right Hand High Side Guide
2	503601-LLLLL	Left Hand High Side Guide
3	807-1553	Pull Pin

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

# Service Parts

## Cleated 25 mm Guides

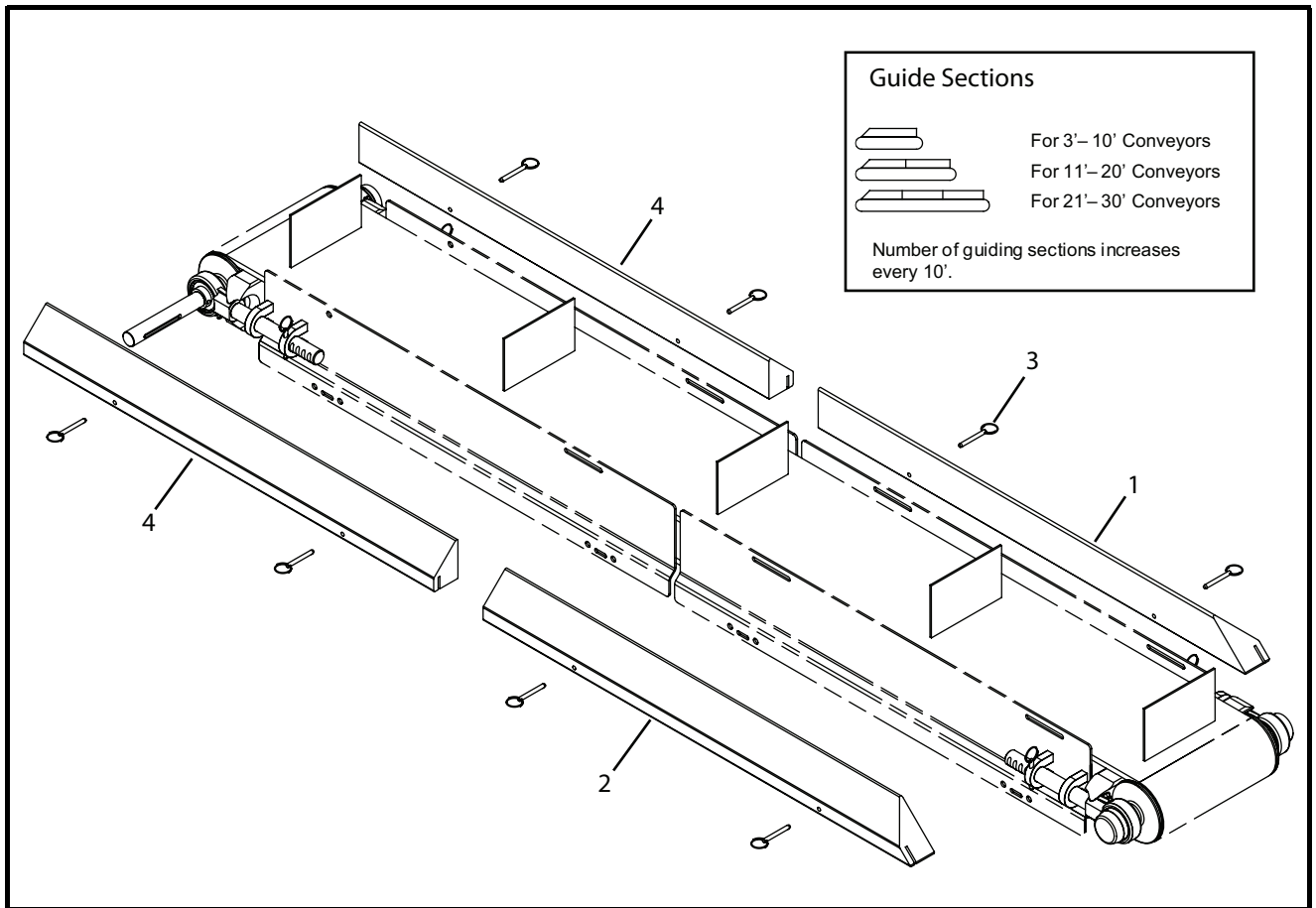


Item	Part Number	Description
1	502401-LLLLL	25 mm Cleated Right Hand Guide (6" - 16" wide conveyors)
	502402-LLLLL	25 mm Cleated Right Hand Guide (18" - 24" wide conveyors)
2	502501-LLLLL	25 mm Cleated Left Hand Guide (6" - 16" wide conveyors)
	502502-LLLLL	25 mm Cleated Left Hand Guide (18" - 24" wide conveyors)

Item	Part Number	Description
3	807-1553	Pull Pin
4	502301-LLLLL	25 mm Cleated Guide Square End (6" - 16" wide conveyors)
	502302-LLLLL	25 mm Cleated Guide Square End (18" - 24" wide conveyors)
LLLLL = Guide Length in inches with 2 decimal places.		
Example: Guide Length = 95.25" LLLLL = 09525		



## Cleated 76 mm Guides

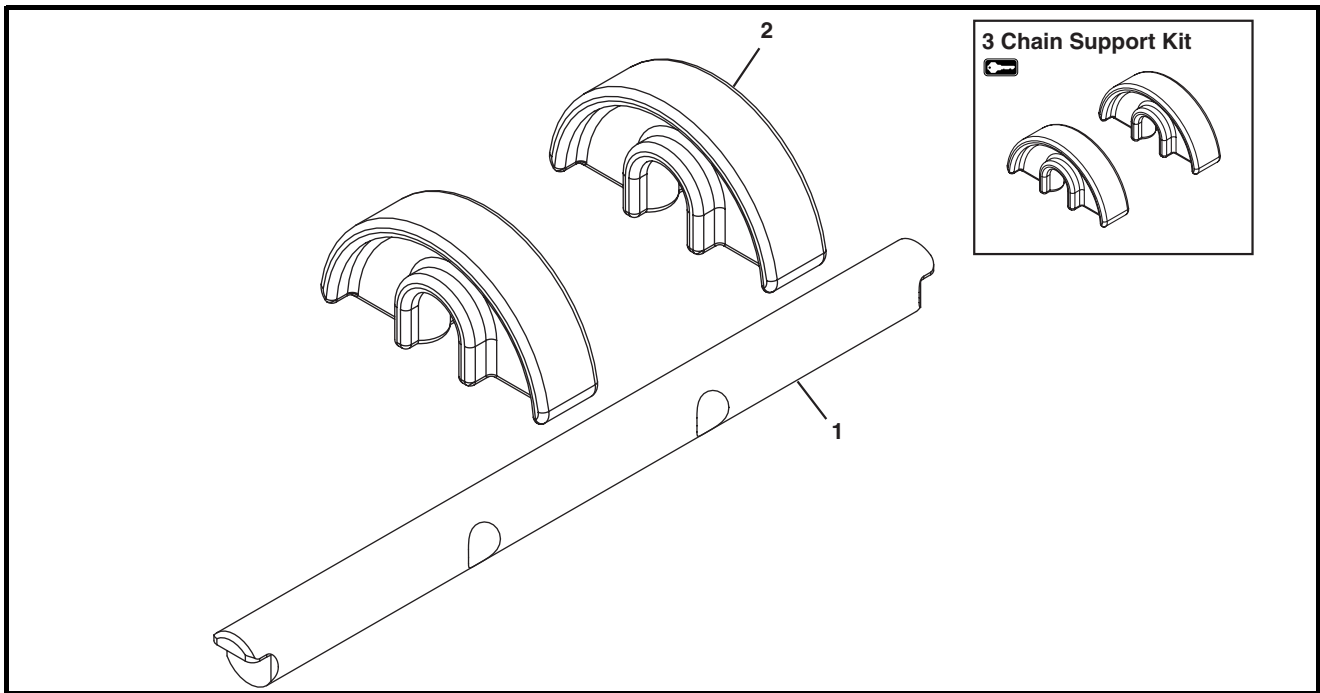


Item	Part Number	Description
1	502701-LLLLL	76 mm Cleated Right Hand Guide (6" - 16" wide conveyors)
	502702-LLLLL	76 mm Cleated Right Hand Guide (18" - 24" wide conveyors)
2	502801-LLLLL	76 mm Cleated Left Hand Guide (6" - 16" wide conveyors)
	502802-LLLLL	76 mm Cleated Left Hand Guide (18" - 24" wide conveyors)

Item	Part Number	Description
3	807-1553	Pull Pin
4	502601-LLLLL	76 mm Cleated Guide Square End (6" - 16" wide conveyors)
	502602-LLLLL	76 mm Cleated Guide Square End (18" - 24" wide conveyors)
LLLLL = Guide Length in inches with 2 decimal places.		
Example: Guide Length = 95.25" LLLLL = 09525		

# Service Parts

## Flat Belt Returns

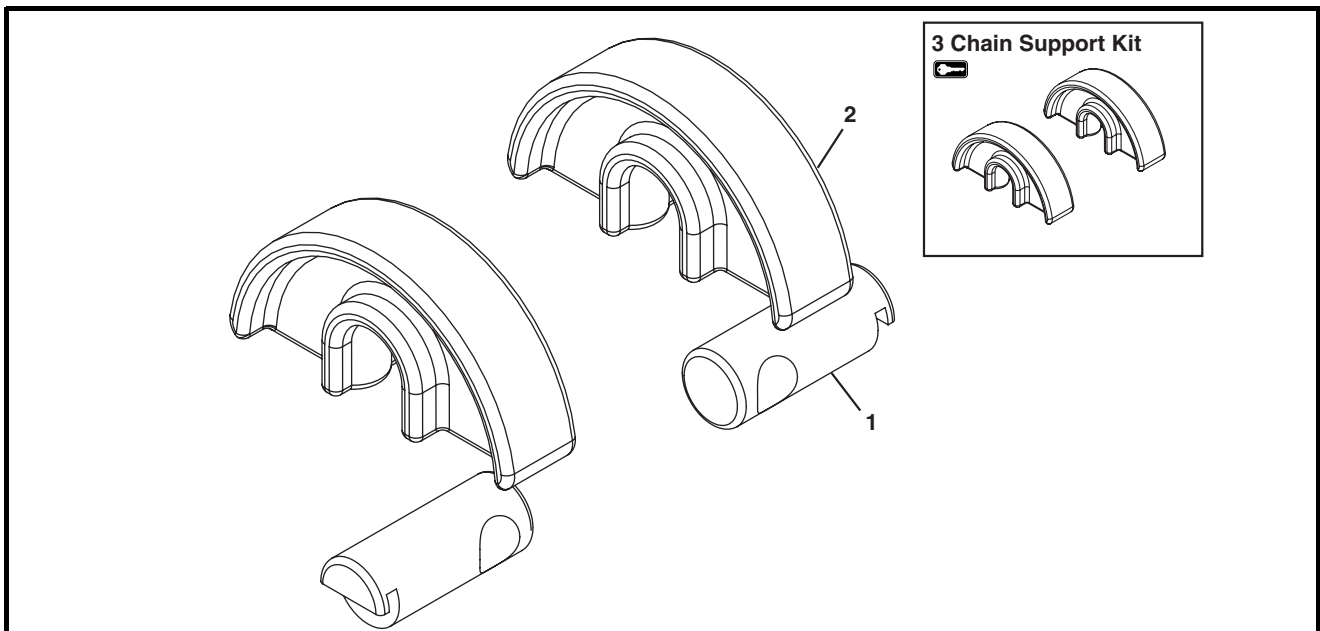


Item	Part Number	Description
1	5032WW	Return Shaft
2	500075	Chain Return Shoe

Item	Part Number	Description
3	74R-WW	Chain Support Kit ( Includes Item 2)

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

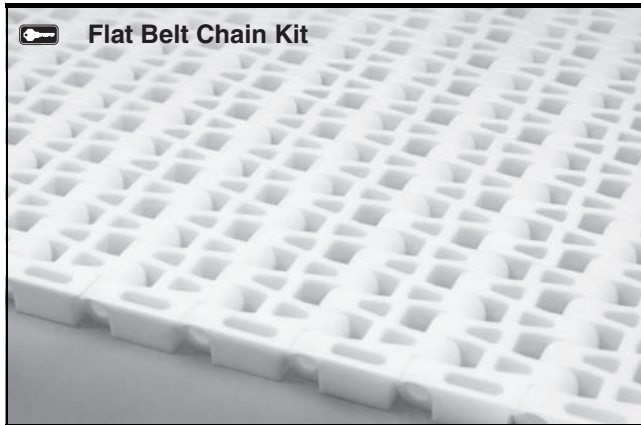
## Cleated Belt Returns



Item	Part Number	Description
1	500196	Cleated Return Shaft
2	500075	Chain Return Shoe

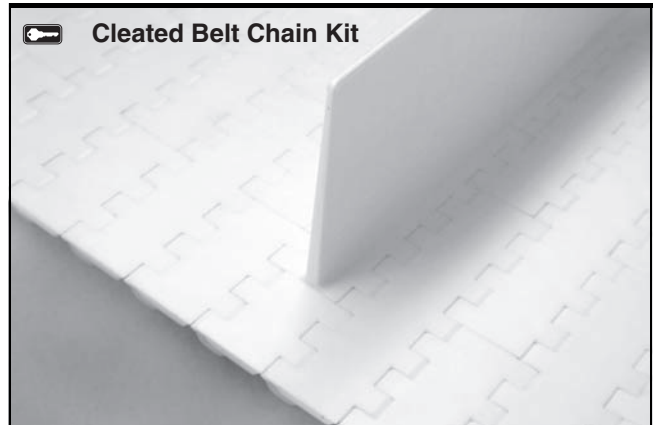
Item	Part Number	Description
3	74CR	Chain Support Kit ( Includes Item 2)

## Flat Belt



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

## Cleated Belt



Item	Part Number	Description
1	74 <u>BB</u> - <u>WW</u> - <u>SS</u>	Cleated Belt Chain Repair Kit (Includes 1 cleat centered on a cleat spacing length of chain and assembly pins)
<u>BB</u> = Chain Reference Number		
<u>WW</u> = Conveyor width ref: 06 - 60 in 02 increments		
<u>SS</u> = Cleat Spacing		

## 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:

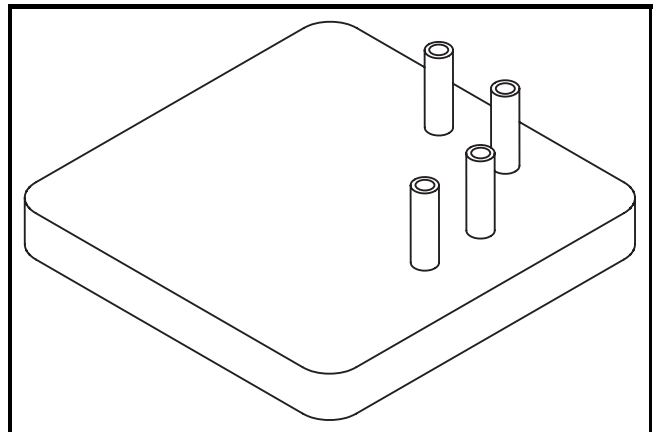
Overall chain length = 42' 5" (rounded up = 43')

Order: Qty (43) of 74BB-WW

BB = Chain reference number

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

## Belt Removal Tool



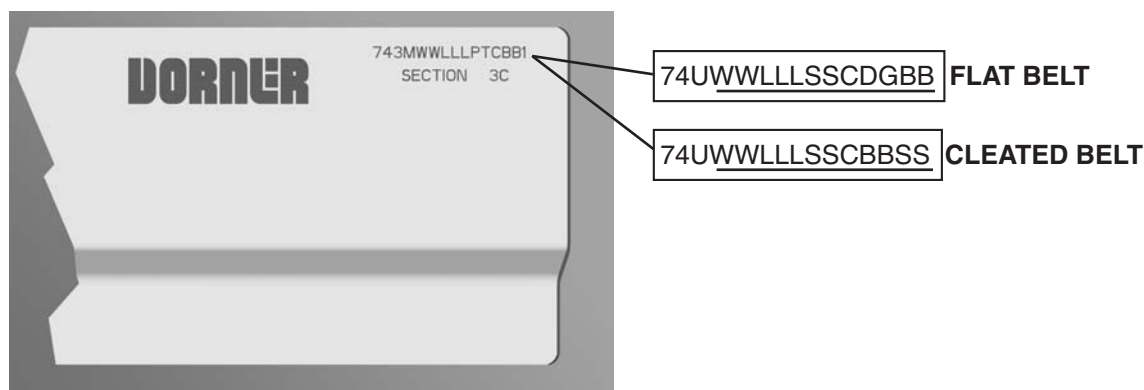
Item	Part Number	Description
1	500582	Tool Rod Removal for 1" Pitch Flush Grid Belt
	500494	Tool Rod Removal for 1/2" Pitch Flush Grid Belt

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# Service Parts

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## Configuring Conveyor Part Number



**Figure 88**

### Flat Belt Conveyor

Refer to the model number on the conveyor frame (**Figure 88**). 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:

**74U12072CC111MA**

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.

### Cleated Belt Conveyor

Refer to the model number on the conveyor frame (**Figure 88**). From the model number, determine conveyor width (WW), length (LLL), drive stand location (S), idler stand location (S), cleaning options (C), cleated belt material (BB) and cleat spacing (SS).

#### Example:

**74U12072CC1NA10**

7400 Series end drive, cleated belt conveyor, 12" (305mm) wide x 72" (1829mm) long, stands located 18" (457mm) from each end, frame cutout cleaning option, NA cleated belt material, side drive with standard pulleys on each end, and 10 link spacing for cleats.



# 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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