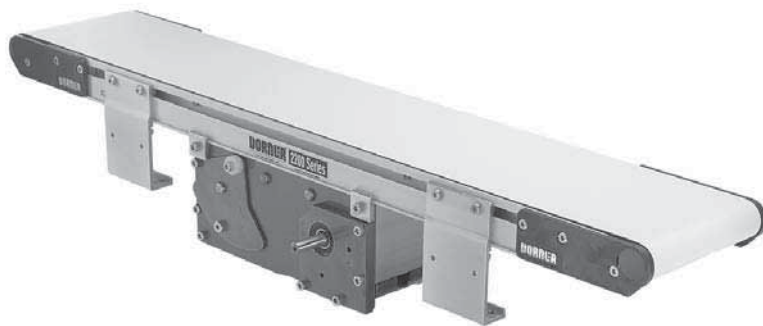




2200 Series Center Drive Conveyors

Installation, Maintenance & Parts Manual



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Introduction

IMPORTANT

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.

Dorner's Limited Warranty applies.

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 

Dorner 2200 series conveyors are covered by Patent Numbers 5,174,435, 6,298,981, 6,422,382 and corresponding patents and patent applications in other countries.

Dorner reserves the right to make changes at any time without notice or obligation.

Warnings – General Safety

WARNING

The safety alert symbol, black triangle with white exclamation, is used to alert you to potential personal injury hazards.

DANGER



Climbing, sitting, walking or riding on conveyor will cause severe injury.
KEEP OFF CONVEYORS.

DANGER



DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.

WARNING



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

WARNING



Gearmotors may be **HOT**.
DO NOT TOUCH Gearmotors.

WARNING



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.

WARNING



Loosening stand height or angle adjustment screws may cause conveyor sections to drop down, causing severe injury.

SUPPORT CONVEYOR SECTIONS PRIOR TO LOOSENING STAND HEIGHT OR ANGLE ADJUSTMENT SCREWS.

Product Description

Refer to Figure 1 for typical conveyor components.

- | | |
|---|----------------------------|
| A | Conveyor |
| B | Drive Module |
| C | Guiding & Accessories |
| D | Gearmotor Mounting Package |
| E | Gearmotor |
| F | Mounting Brackets |
| G | Support Stand |
| H | Variable Speed Controller |
| I | Fixed End |
| J | Tension End |

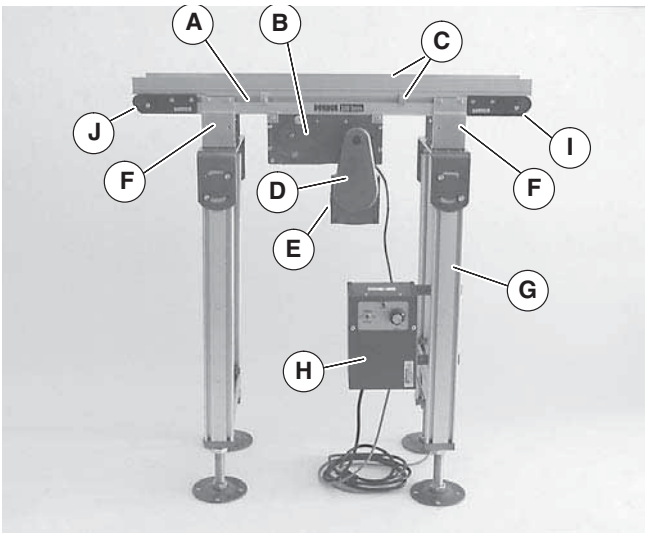
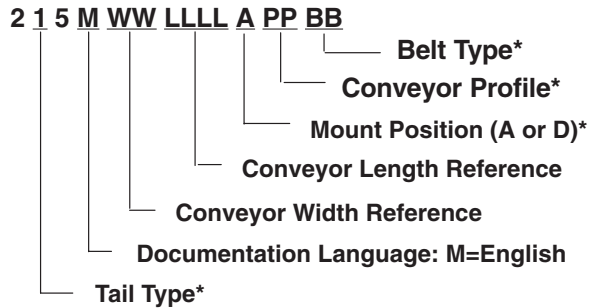


Figure 1

Models:

2200 Series Center Drive Conveyor

2200 Series Center Drive Conveyor



* See Ordering and Specifications Catalog for details.

Conveyor Supports:

Maximum Distances:

K = 18" (457 mm)

L = 6 ft (1829 mm)**

** For conveyors longer than 13 ft (3962 mm), install support at joint.

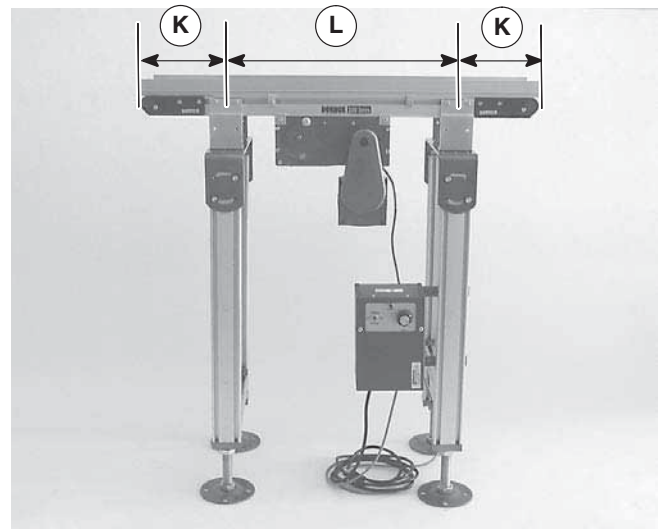


Figure 2

Specifications

Specifications:

Conveyor Width Reference (WW)	02	03	04	05	06	08	10	12	18	21	24
Conveyor Belt Width	1.75" (44 mm)	2.75" (70 mm)	3.75" (95 mm)	5" (127 mm)	6" (152 mm)	8" (203 mm)	10" (254 mm)	12" (305 mm)	18" (457 mm)	21" (533 mm)	24" (610 mm)
Maximum Conveyor Load* (See NOTE Below)	40 lb (18 kg)	50 lb (23 kg)	60 lb (27 kg)	75 lb (34 kg)	90 lb (41 kg)	105 lb (47 kg)	120 lb (54 kg)	120 lb (54 kg)	120 lb (54 kg)	120 lb (54 kg)	120 lb (54 kg)
Conveyor Start-up Torque*	9 in-lb (1.0 Nm)	10 in-lb (1.1 Nm)	11 in-lb (1.2 Nm)	12 in-lb (1.4 Nm)	15 in-lb (1.7 Nm)	20 in-lb (2.3 Nm)	23 in-lb (2.6 Nm)	25 in-lb (3.4 Nm)	30 in-lb (3.4 Nm)	35 in-lb (4.0 Nm)	35 in-lb (4.0 Nm)
Belt Travel	4.2" (107 mm) per revolution of pulley										
Maximum Belt Speed*	235 feet/minute (72 meters/minute)										
Belt Take-up	1" (25 mm) of stroke = 2" (51 mm) of belt take-up										

Conveyor Length Reference (LL)	02	03	04	05	06	07	08	09	10	11	12	13	24	14	15	16	17	18	19	20	21	22	23	24
Conveyor Length	2-ft (610 mm)	3-ft (914 mm)	4-ft (1219 mm)	5-ft (1524 mm)	6-ft (1829 mm)	7-ft (2134 mm)	8-ft (2438 mm)	9-ft (2743 mm)	10-ft (3048 mm)	11-ft (3353 mm)	12-ft (3658 mm)	13-ft (3962 mm)	24-ft (7315 mm)	14-ft (4267 mm)	15-ft (4572 mm)	16-ft (4877 mm)	17-ft (5182 mm)	18-ft (5486 mm)	19-ft (5791 mm)	20-ft (6096 mm)	21-ft (6401 mm)	22-ft (6706 mm)	23-ft (7010 mm)	24-ft (7315 mm)

* See Ordering and Specifications Catalog for details.

NOTE

Maximum conveyor loads based on:

- Non-accumulating product
- Product moving towards gearmotor
- Conveyor being mounted horizontal

NOTE

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

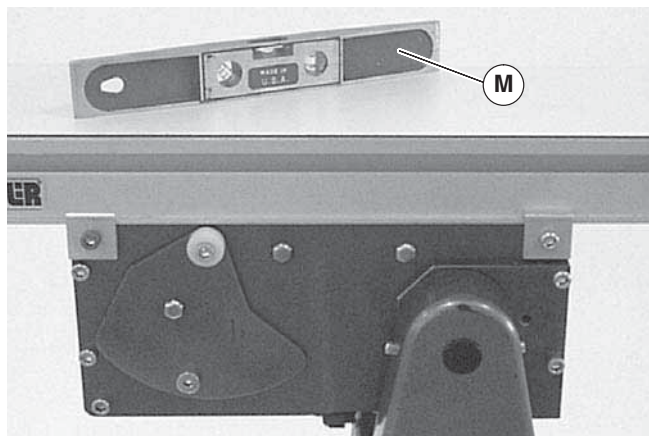


Figure 3

Installation Component List

O	Conveyor frame [(two sections – for 12ft (3658mm) and longer conveyors)]
P	Conveyor brackets (4x)
Q	Return rollers (for longer conveyors)

Required Tools

- Hex key wrenches:
4 mm, 5 mm
- Level
- Torque wrench

Recommended Installation Sequence

- Install stands (see accessory instructions)
- Assemble conveyor (if required)
- Attach mounting brackets to conveyor
- Attach conveyor to stands
- Install return rollers on conveyor (optional)
- Mount gearmotor mounting package (see accessory instructions)
- Attach guides/accessories (see “Service Parts” section, page 22)

Conveyors Up to 12 ft (3658 mm)

No assembly is required. Install mounting brackets and return rollers. Refer to “Mounting Brackets”, page 8 and “Return Rollers”, page 8.

Conveyors Longer Than 12 ft (3658 mm)

1. Locate conveyor sections (Figure 4, item O)

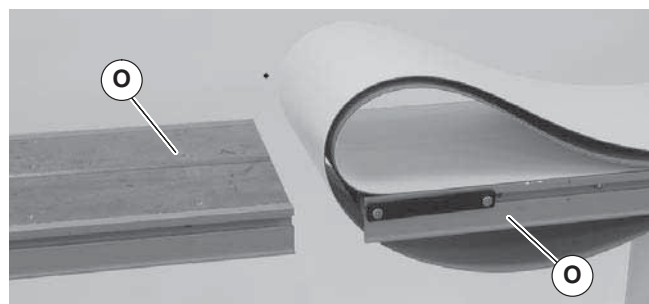


Figure 4

2. On tension end of the conveyor, identified with a  label (Figure 5, item R), push in head plate assembly (S): On both sides of conveyor, loosen and move cam tracking assemblies (T) (if equipped) away from head plates, then loosen fastening screws (U) and push head plate assembly inward.

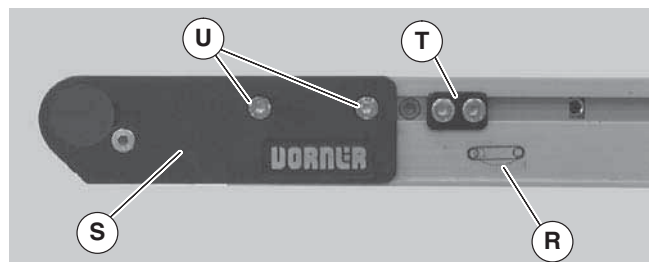


Figure 5

3. Roll out conveyor belt and place conveyor frame sections (Figure 6, item O) into belt loop.

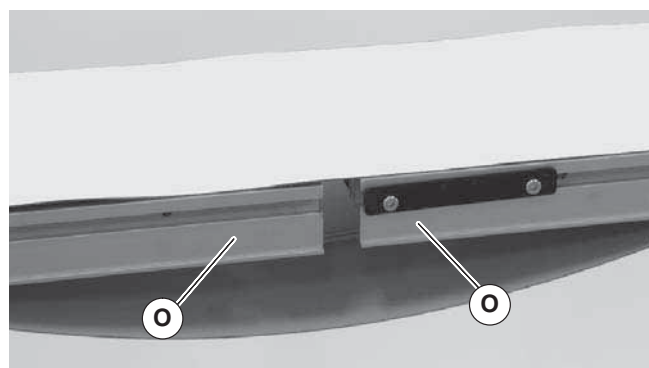


Figure 6

4. Join conveyor sections and install connector brackets (Figure 7, item V) or connector/mount brackets (VA) and screws (W) on both sides as indicated. Tighten screws to 60 in-lb (7 Nm).

Installation

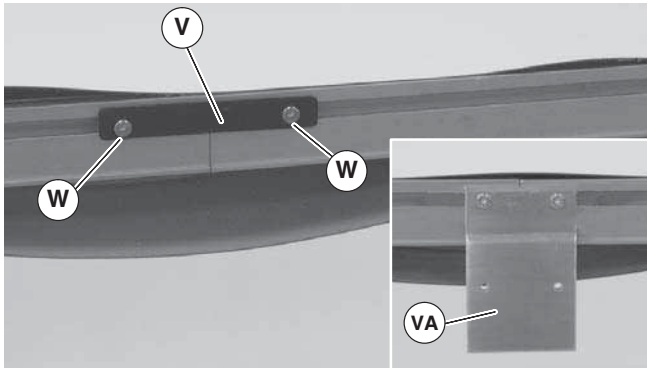


Figure 7

5. With a 5 mm hex-key wrench, rotate pinion gear (Figure 8, item X) to tension the conveyor belt. Tighten fastening screws (U) on both sides of conveyor to 60 in-lb (7 Nm). For proper tensioning, refer to “Conveyor Tension End Adjustment”, page 16.

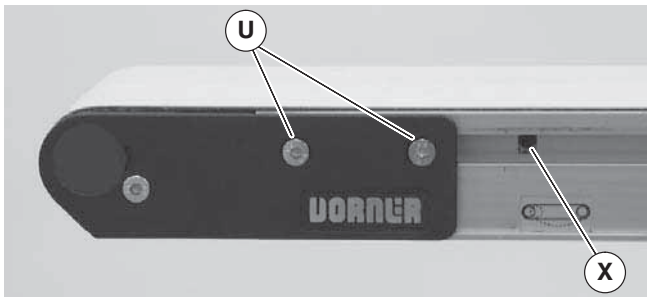


Figure 8

6. Install mounting brackets and return rollers. Refer to “Mounting Brackets”, page 8 and “Return Rollers”, page 8.
7. If equipped with cam tracking assemblies (Figure 5, item T), adjust belt tracking. Refer to “Conveyor Belt Tracking”, page 18.

Mounting Brackets

1. Locate brackets. Exploded views shown in Figure 9.

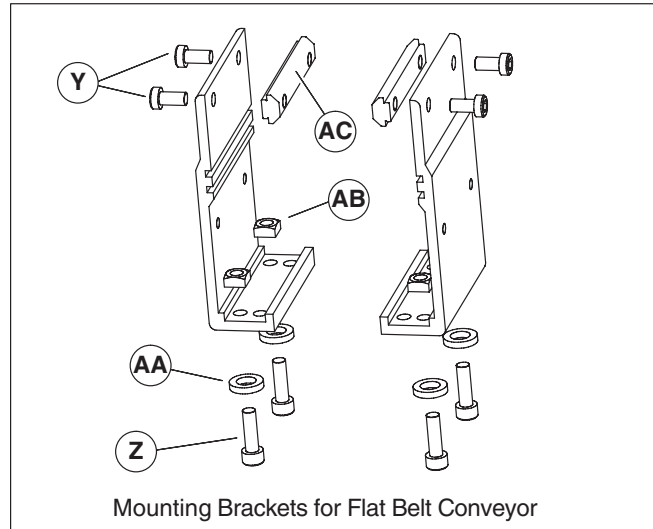


Figure 9

2. Remove screws (Figure 9, item Y & Z), washers (AA), nuts (AB) and T-bars (AC) from brackets.
3. Insert T-bars (Figure 9, item AC) into conveyor side slots (Figure 10, item AD). Fasten brackets (Figure 10, item P) to conveyor with mounting screws (Y).

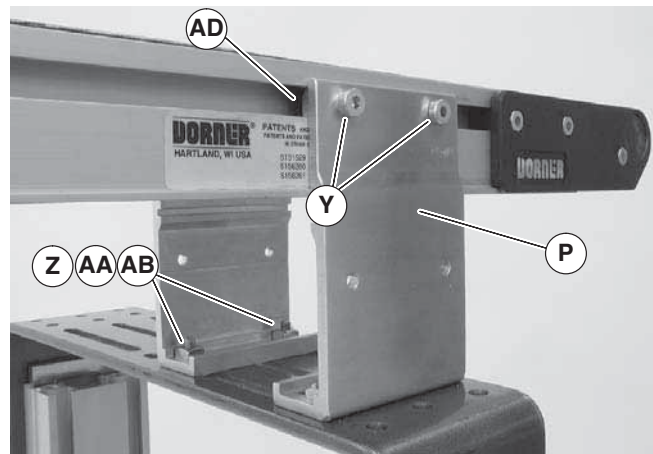


Figure 10

4. Fasten brackets to support stand with mounting screws (Figure 10, item Z), washers (AA) and nuts (AB).
5. Tighten screws (Figure 10, item Y & Z) to 60 in-lb (7 Nm).

Return Rollers

2–6" (51–152 mm) Wide Flat Belt Conveyors

1. Locate return rollers. Exploded views shown in Figure 11.

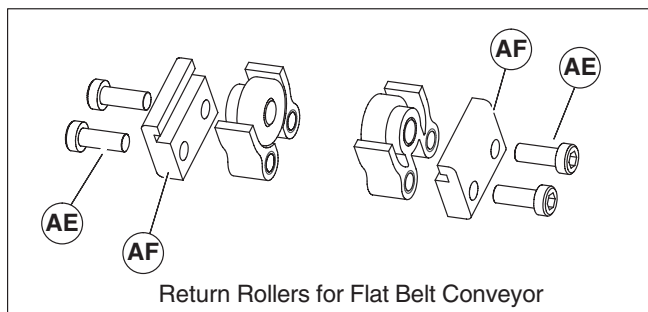


Figure 11

2. Remove screws (Figure 11, item AE) and clips (AF) from roller assembly.
3. Install roller assemblies (Figure 12, item Q) as shown. Tighten screws (AE) to 60 in-lb (7 Nm).

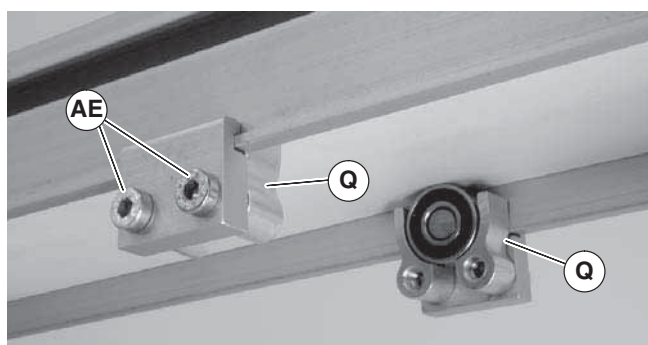


Figure 12

8–24" (203–610 mm) Wide Flat Belt Conveyors

1. Locate return rollers. Exploded view shown in Figure 13.

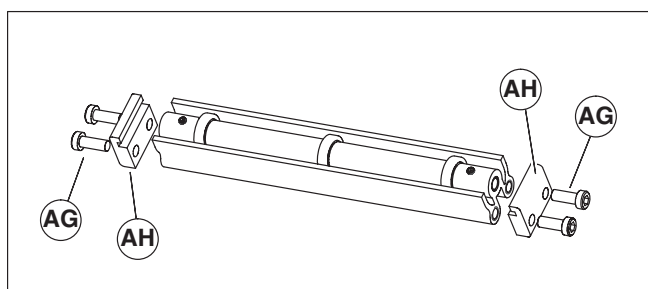


Figure 13

2. Remove screws (Figure 13, item AG) and clips (AH) from roller assembly.
3. Install roller assembly as shown (Figure 14, item Q). Tighten screws (AG) to 60 in-lb (7 Nm).

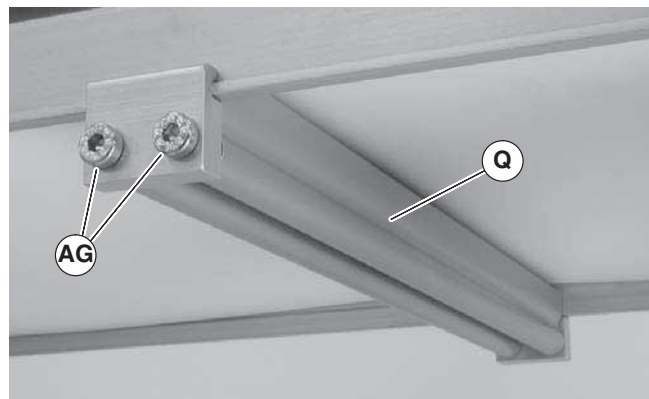


Figure 14

Preventive Maintenance and Adjustment

Required Tools

Standard Tools

- Hex key wrenches:
 - 2 mm – 4 mm – 2.5 mm
 - 5 mm – 3 mm – 6 mm
- Small flat blade screwdriver
- Adjustable wrench
- Arbor press

Special Tools

- 450282, Sealed Bearing Installation Tool

Checklist

- Keep service parts on hand. See “Service Parts” for recommendations.
- Keep supply of belt cleaner (part number 625619).
- Clean entire conveyor and knurled pulley while disassembled.
- Replace worn or damaged parts.

Lubrication

⚠ WARNING



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

Conveyor Pulley Bearings

No lubrication is required. Replace pulley if worn.

Drive Module Idler Pulley Bearings

No lubrication is required. Replace pulley if worn.

Drive Module Drive Pulley Bearings

No lubrication is required. Replace bearings if worn.

Return Rollers

No lubrication is required. Replace bearings if worn.

Maintaining Conveyor Belt

Troubleshooting

Inspect conveyor belt for:

- Surface cuts or wear
- Stalling or slipping

Surface cuts and wear indicate:

- Sharp or heavy parts impacting belt
- Jammed parts
- Improperly installed bottom wiper
- Accumulated dirt in wiper
- Foreign material inside the conveyor
- Improperly positioned accessories
- Bolt-on guiding is pinching belt

Stalling or slipping indicates:

- Excessive load on belt
- Conveyor belt or drive timing belt are not properly tensioned
- Worn knurl or impacted dirt on drive pulley
- Intermittent jamming or drive train problems

NOTE

Visit www.dorner.com for complete list of troubleshooting solutions.

Cleaning

IMPORTANT

Do not use belt cleaners that contain alcohol, acetone, Methyl Ethyl Ketone (MEK) or other harsh chemicals.

Use Dorner Belt Cleaner (part number 625619). Mild soap and water may also be used. Do not soak the belt.

For /05 woven polyester and /06 black anti-static belts, use a bristled brush to improve cleaning.

Preventive Maintenance and Adjustment

Conveyor Belt Replacement

⚠ WARNING

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

Conveyor Belt Replacement Sequence

NOTE
See Table of Contents for beginning page numbers of following procedures.

- Remove old conveyor belt:
- Conveyor without Stands or Gearmotor Mounting Package
- Conveyor with Stands and Gearmotor Mounting Package
- Drive Module Removal
 - Conveyor Belt Removal from Drive Module
 - Install New Conveyor Belt
 - Tension Conveyor Belt

Belt Removal for Conveyor Without Stands or Gearmotor Mounting Package

1. If equipped, remove bottom wipers (Figure 15, item AI): Remove fastening screws (AJ) then remove wiper (AI).

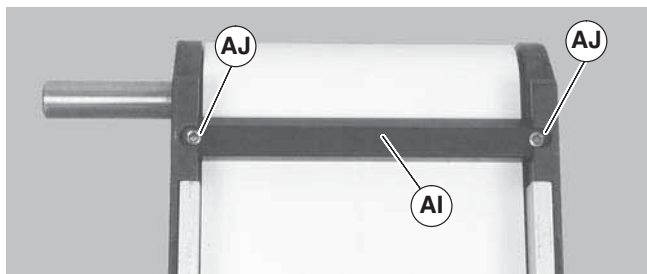


Figure 15

2. If equipped, remove return rollers and guiding and accessories from one side of conveyor.
3. Loosen corner screws (Figure 16, item AK), on each side of the drive module (AL).

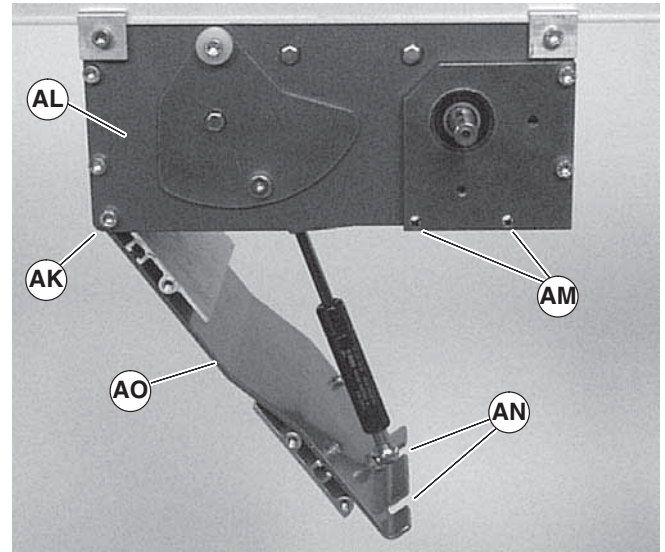


Figure 16

4. Remove tension door screws (AM) on each side of the drive module.
5. Using finger grip holes (AN), open the tension door (AO) to release conveyor belt tension.
6. On tension end of the conveyor, identified with a  label (Figure 17, item R), push in head plate assembly (S): On both sides of conveyor, loosen and move cam tracking assemblies (T) (if equipped) away from head plates, then loosen fastening screws (U) and push head plate assembly inward.

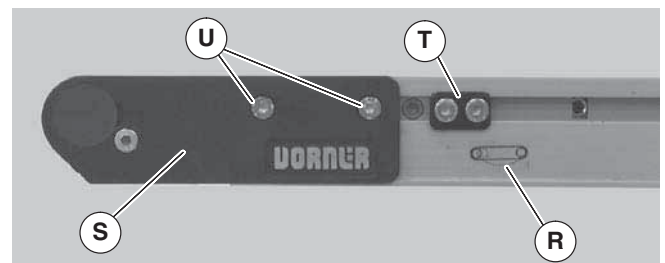


Figure 17

7. Remove conveyor belt from conveyor ends. See NOTE.

NOTE
On conveyors 4-ft (1219 mm) and shorter by 8" (203 mm) and wider, it is necessary to remove the drive module at the same time the conveyor belt is removed. See "Drive Module Removal", page 13.

8. Proceed to "Drive Module Removal", page 13 and "Belt Removal from Drive Module", page 14.

Preventive Maintenance and Adjustment

Belt Removal for Conveyor With Stands and Gearmotor Mounting Package

1. If equipped, remove bottom wipers (Figure 18, item AI): Remove fastening screws (AJ) then remove wiper (AI).

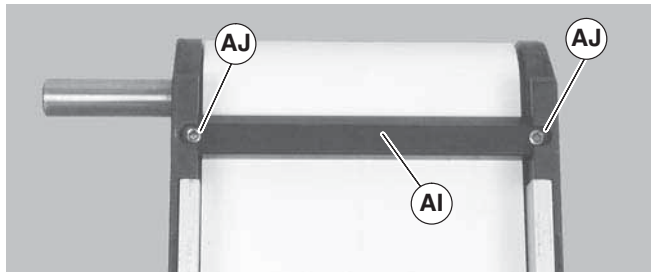


Figure 18

2. If equipped, remove return rollers and guiding and accessories from one side of conveyor.
3. Remove Gearmotor Mounting Package. See “Gearmotor Mounting Package Removal”, page 12.
4. Loosen corner screws (Figure 19, item AK), on each side of the drive module (AL).

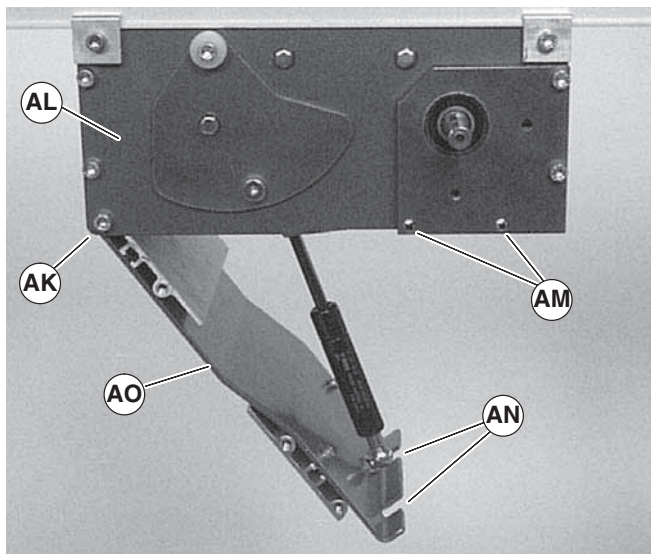


Figure 19

5. Remove tension door screws (AM) on each side of the drive module.

NOTE

With vertically mounted gearmotors, tension door screws (AM) are removed from one side when the gearmotor mounting package is removed.

6. Using finger grip holes (AN), open the tension door (AO) to release conveyor belt tension.

7. On tension end of the conveyor, identified with a  label (Figure 20, item R), push in head plate assembly (S): On both sides of conveyor, loosen and move cam tracking assemblies (T) (if equipped) away from head plates, then loosen fastening screws (U) and push head plate assembly inward.

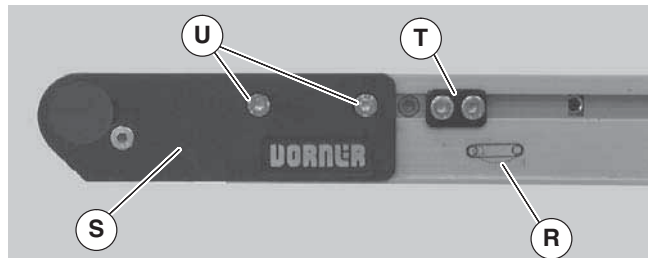


Figure 20

8. Place temporary support stands (Figure 21, item AP) at both ends of the conveyor.

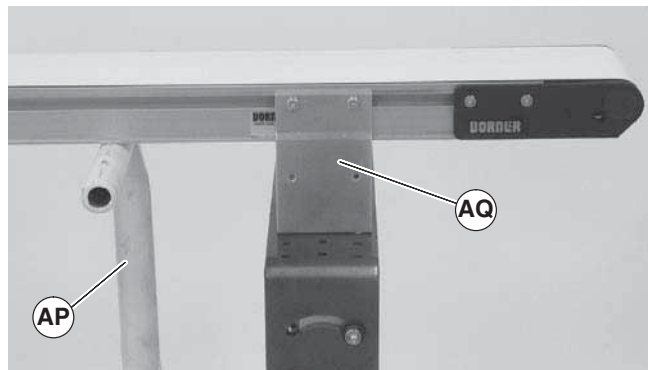


Figure 21

9. Remove mounting brackets (Figure 21, item AQ) from one side of conveyor. (Reverse steps 3 & 4 of “Mounting Brackets” section, page 8.)
10. Remove conveyor belt from conveyor ends. See NOTE.

NOTE

On conveyors 4-ft (1219 mm) and shorter by 8” (203 mm) and wider, it is necessary to remove the drive module at the same time the conveyor belt is removed. See “Drive Module Removal”, page 13.

11. Proceed to “Drive Module Removal”, page 13 and “Belt Removal from Drive Module”, page 14.

Gearmotor Mounting Package Removal

1. Remove cover screws (Figure 22, item AR) and remove cover (AS).

Preventive Maintenance and Adjustment

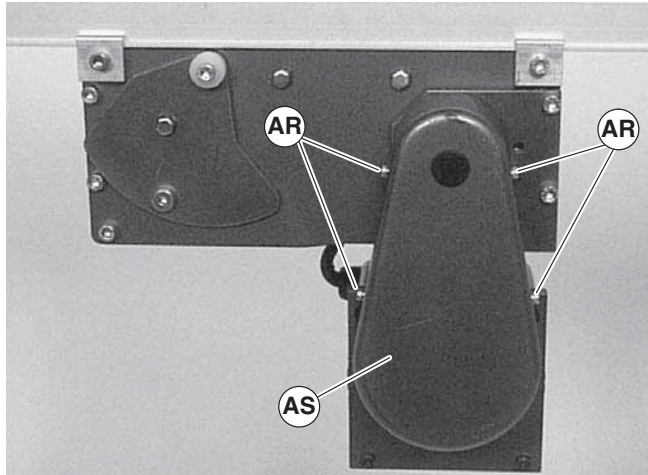


Figure 22

NOTE

Figure 22 & Figure 23 show vertically mounted gearmotor. Horizontally mounted gearmotor is similar.

2. Loosen belt tensioner (Figure 23, item AT) then remove timing belt (AU).

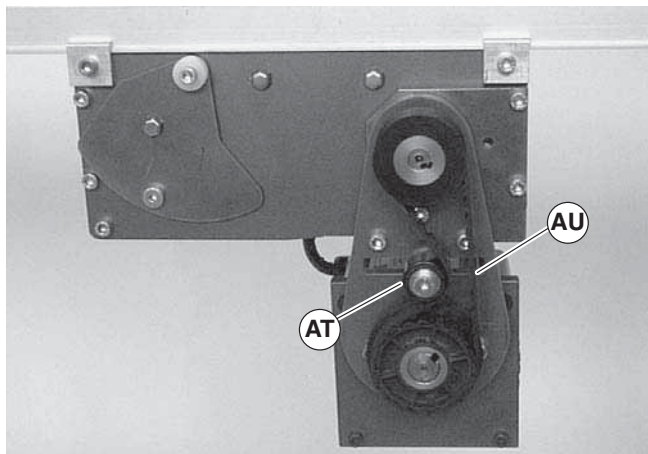


Figure 23

NOTE

If the timing belt does not slide over the pulley flange, loosen the driven pulley set screws (Figure 24, item AV) and remove the pulley (AW) with the belt (AY).

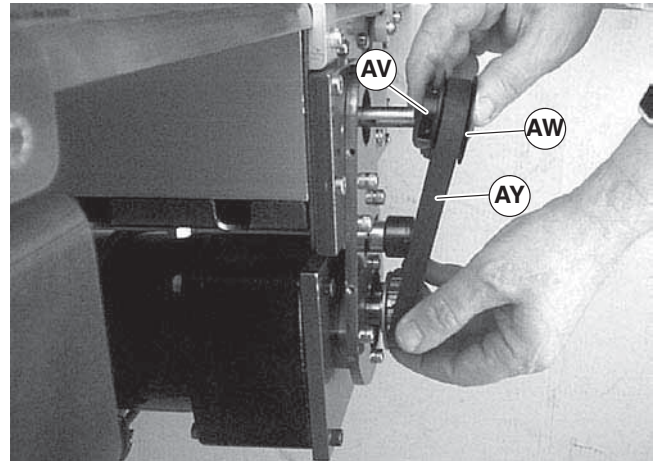


Figure 24

3. Remove three mounting screws (Figure 25, item AZ) and remove gearmotor.

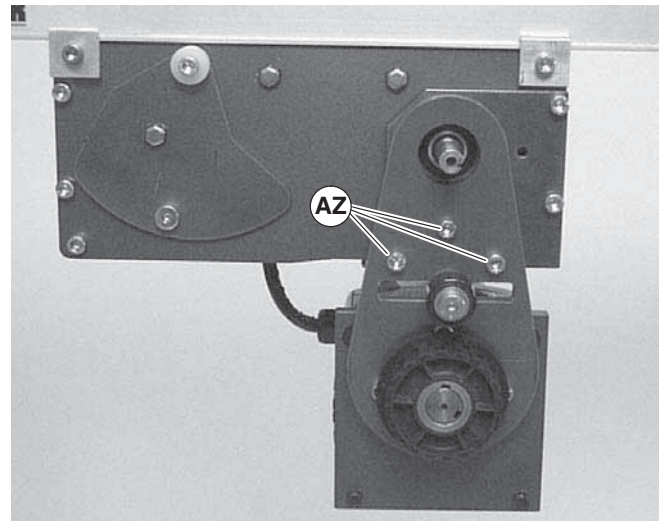


Figure 25

Drive Module Removal

⚠ WARNING



Removing drive module without support under the module may lead to personnel injury.

PROVIDE SUPPORT UNDERNEATH THE DRIVE MODULE BEFORE REMOVING THE MODULE.

Preventive Maintenance and Adjustment

NOTE

If desired, mark position of drive module on conveyor before removal.

1. Place temporary support (Figure 26, item BA) underneath the drive module.

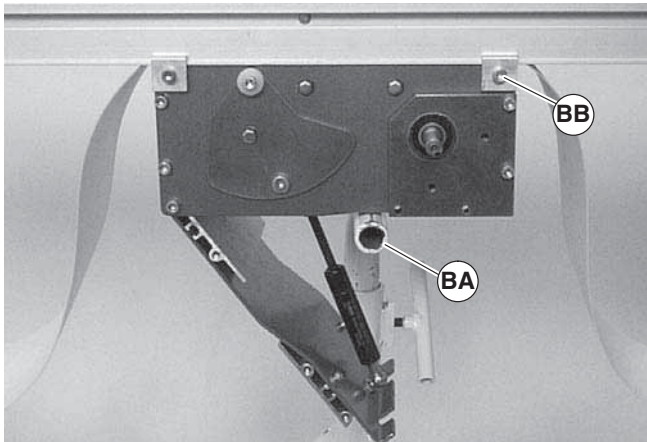


Figure 26

2. Loosen clamp screws (BB) on each corner of the module. Remove the module.

Belt Removal from Drive Module

1. Remove drive plate screws (Figure 27, item BC). Remove the tension drive plate (BD).

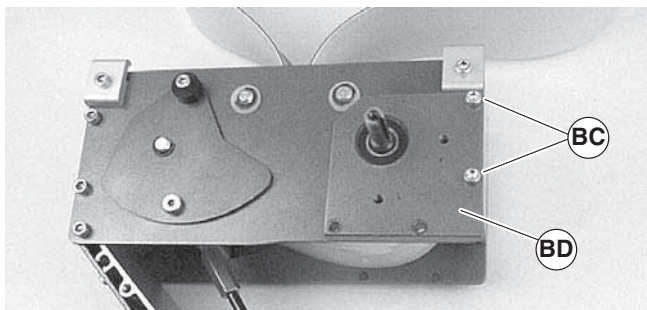


Figure 27

2. Remove drive pulley (Figure 28, item BE).

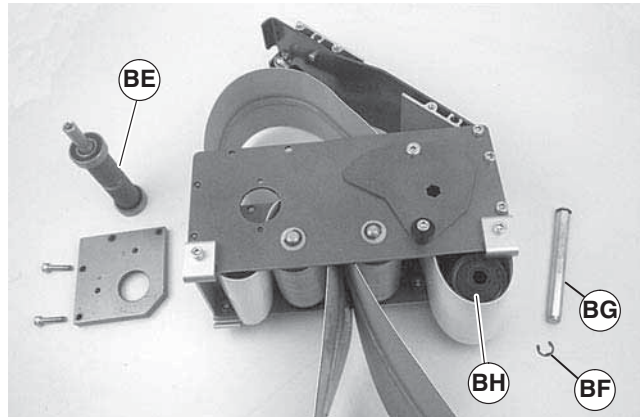


Figure 28

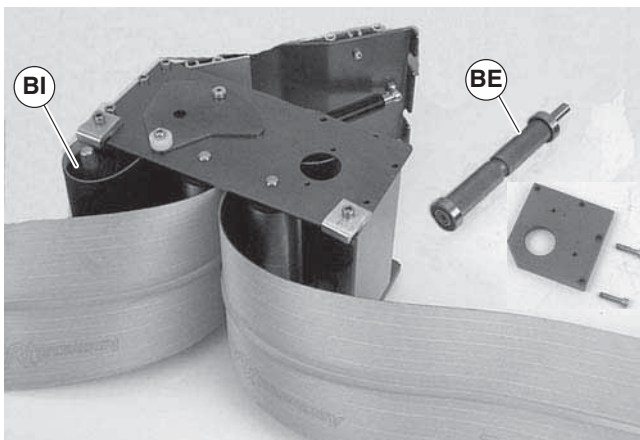


Figure 29

3. Remove grooved idler pulley:
 - For 2" (44 mm), 3" (70 mm) or 4" (95 mm) wide conveyor, detach E-ring clip (Figure 28, item BF). Remove pulley shaft (BG) and remove pulley (BH).
 - For 5" (127 mm) or wider conveyor, depress both sides of spring-loaded shaft and remove pulley (Figure 29, item BI).
4. Remove the conveyor belt.

Preventive Maintenance and Adjustment

Conveyor Belt Installation

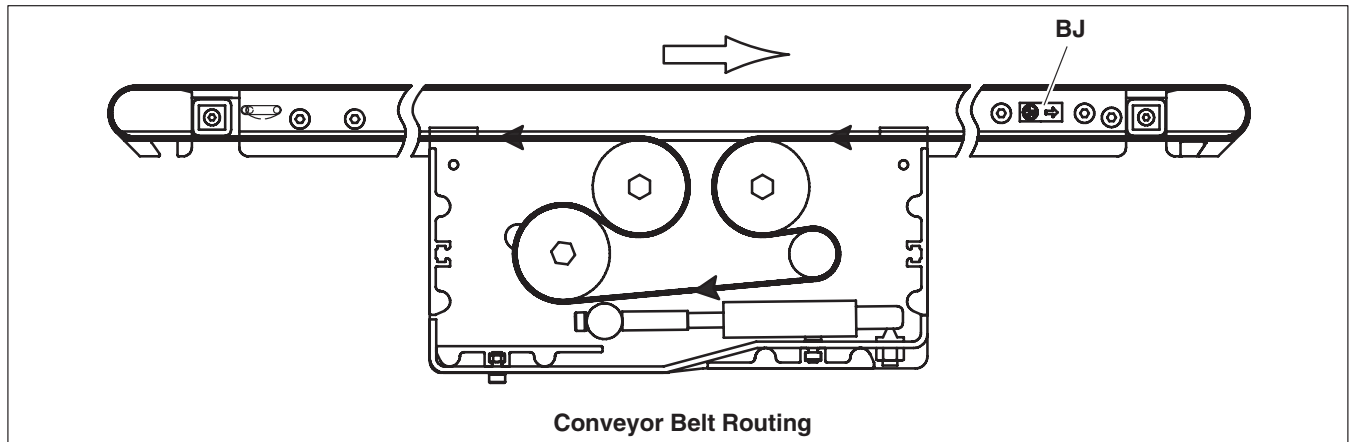


Figure 30

IMPORTANT

On a center drive conveyors, belt travel direction is identified by an arrow decal on the side of the conveyor (Figure 31, item BJ) & (Figure 30, item BJ).



Figure 31

NOTE

It is necessary to replace the drive module at the same time the conveyor belt is replaced on conveyors 4-foot (1219 mm) and shorter by 8" (203 mm) and wider.

1. Orient the conveyor belt so that the splice leading fingers (Figure 32, item BK) point in the direction of belt travel, indicated by the label (Figure 31, item BJ).

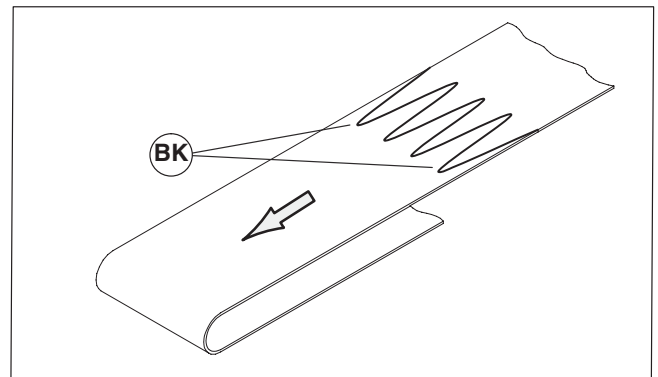


Figure 32

2. Place loop of belt (Figure 33, item BL) into the drive module between top idler pulleys (BM).

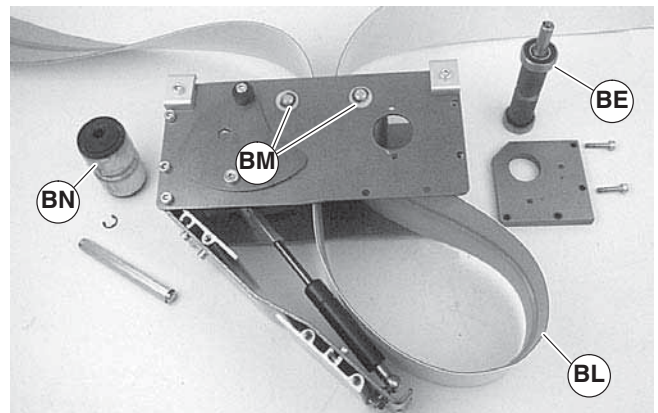


Figure 33

3. Place grooved idler pulley (Figure 33, item BN) into the belt loop and install it in the drive module. Refer to "Belt Removal from Drive Module" on page 14 and reverse step 3.

Preventive Maintenance and Adjustment

4. Place drive pulley (Figure 33, item BE) into the belt loop and install it in the drive module. Refer to “Belt Removal from Drive Module” on page 14 and reverse steps 1 and 2. Tighten screws (Figure 27, item BC) to 80 in-lb (9 Nm).
5. Install the drive module onto the conveyor and attach clamps (Figure 26, item BB) in each corner. Tighten screws to 80 in-lb (9 Nm).
6. Route and install the belt over both ends of the conveyor.
7. On conveyors with stands, re-install conveyor mounting brackets. Refer to “Mounting Brackets”, page 8, steps 3 through 5.
8. Adjust the conveyor tensioning end. See “Conveyor Tensioning End Adjustment”, page 16.

⚠ WARNING



Tension door closes quickly, may cause injury.
KEEP FINGERS CLEAR OF TENSION DOOR.

9. Carefully close the drive module tension door (Figure 34, item BO). See WARNING.

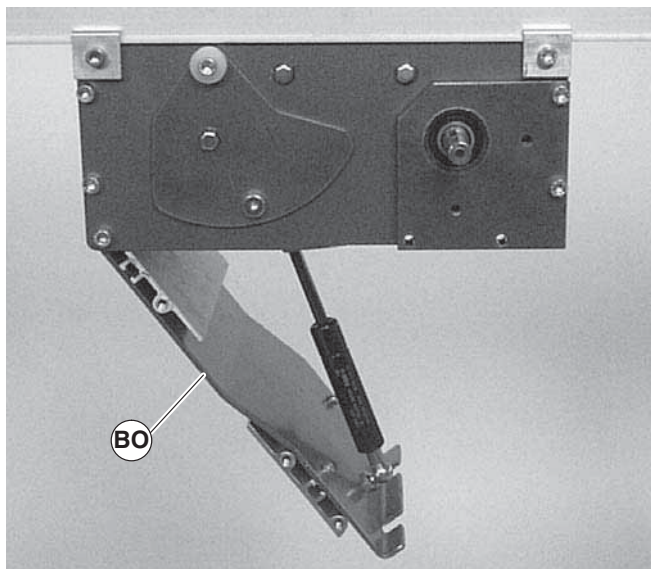


Figure 34

10. Tighten corner screws (Figure 35, item BO) on each side of the drive module to 80 in-lb (9 Nm).

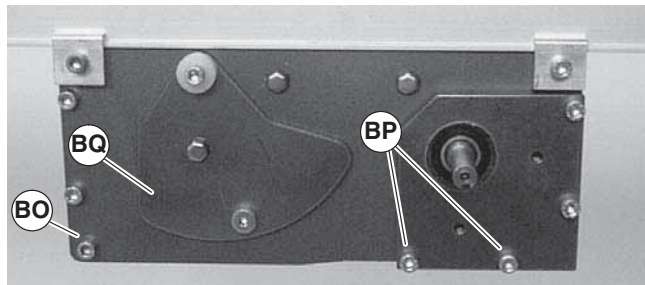


Figure 35

11. If equipped, re-install the gearmotor mounting package. Reverse steps of “Gearmotor Mounting Package Removal” procedure on page 12.
12. Re-install tension door screws (Figure 35, item BP) on each side of the module. Tighten screws to 80 in-lb (9 Nm).

NOTE

With vertically mounted gearmotors, tension door screws (BP) are installed on one side when the gearmotor mounting package is installed.

13. If equipped, re-install bottom wipers (Figure 36, item AI): Install wiper (AI) then install screws (AJ).

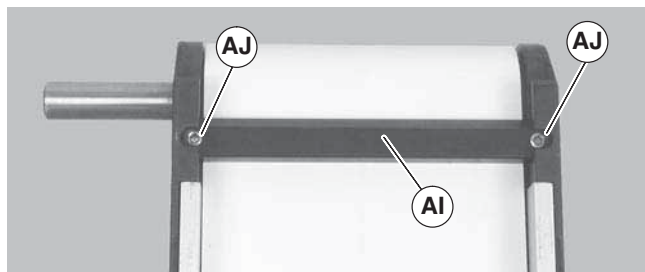


Figure 36

14. If equipped, replace guiding.

Conveyor Tension End Adjustment

⚠ WARNING



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

Preventive Maintenance and Adjustment

Conveyors with 1.25" (32 mm) Diameter Pulleys

1. On tension end of the conveyor, identified with a  label (Figure 37, item R), adjust head plate assembly (S): On both sides of conveyor, loosen fastening screws (U) and rotate pinion gear (X) to adjust head plate assembly.

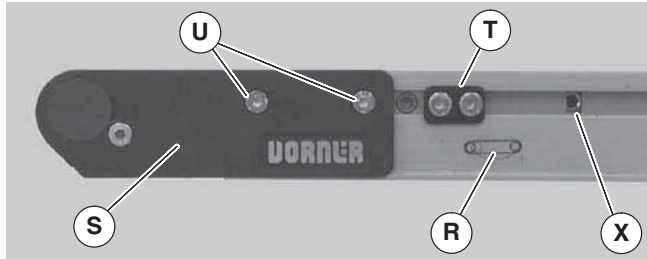


Figure 37

2. Adjust head plate assembly so end of conveyor frame aligns with first tensioning mark (Figure 38, item BR). Tighten fastening screws (Figure 37, item U) on both sides of conveyor to 60 in-lb (7 Nm).

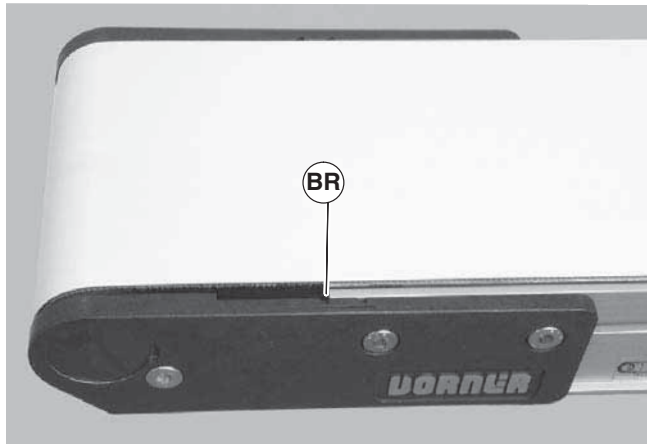


Figure 38

3. If equipped with cam tracking assemblies (Figure 37, item T), reposition against head plates and adjust belt tracking. Refer to "Conveyor Belt Tracking", page 18.

Conveyors with Nose Bar Idlers

1. On tension end of the conveyor, identified with a  label (Figure 39, item R), adjust head plate assembly (S): On both sides of conveyor, loosen fastening screws (U) and rotate pinion gear (X) to adjust head plate assembly.

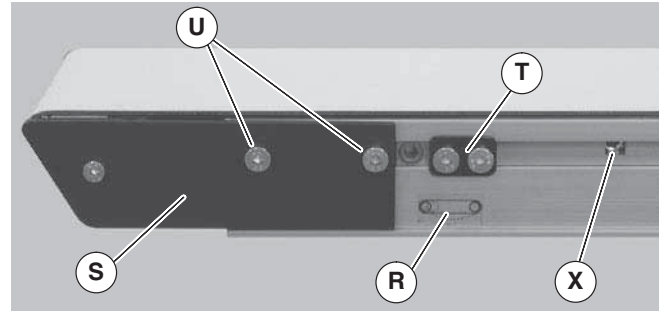


Figure 39

2. Adjust head plate assembly so the edge of the axle support plate (Figure 40, item BS) is separated from the end of the conveyor (BT) by 1.125" (29 mm). Tighten fastening screws (Figure 39, item U) on both sides of conveyor to 60 in-lb (7 Nm).

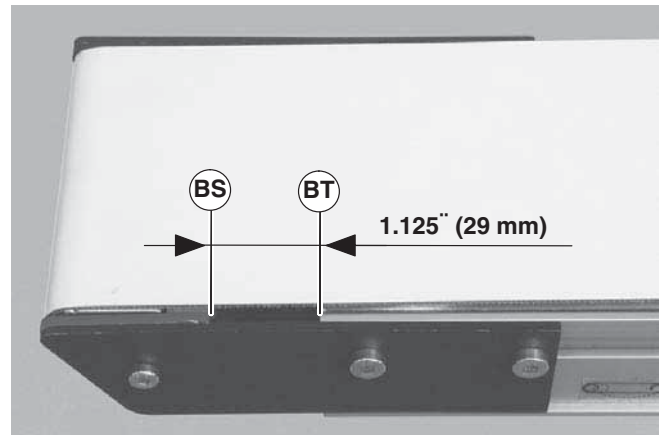


Figure 40

3. If equipped with cam tracking assemblies (Figure 39, item T) position against head plates and adjust belt tracking. Refer to "Conveyor Belt Tracking", page 18.

Conveyor Belt Tensioning

The conveyor is equipped with an automatic tensioning cylinder. No tensioning adjustment is required.

For a new belt, the tension plate (Figure 41, item BQ) will be in position indicated below left. When the tension plate extends to position indicated below right, the conveyor belt must be replaced.

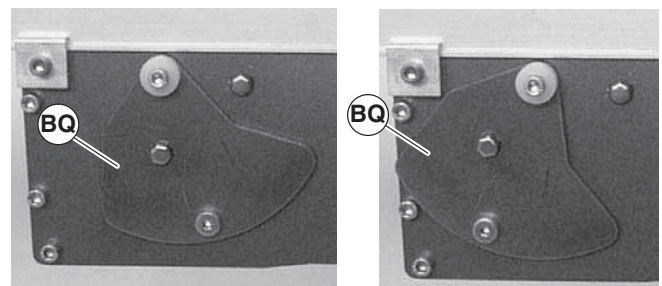


Figure 41

Preventive Maintenance and Adjustment

Conveyor Belt Tracking

V-Guided Belts

V-guided belts do not require tracking adjustment.

Non V-Guided Belts

Non V-guided belt conveyors are equipped with belt tracking cam assemblies (Figure 42, item T) for belt tracking adjustment.

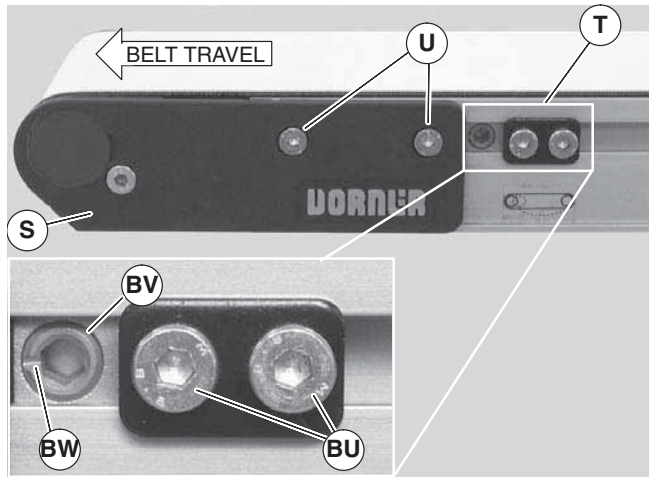


Figure 42

When adjusting belt tracking, always adjust the discharge end of the conveyor first. To adjust belt tracking:

1. Ensure head plate fastening screws (Figure 42, item U) on both sides of conveyor are tightened.
2. On both sides of conveyor, loosen two (2) cam fastening screws (BU). Adjust cams (BV) until indicator slots (BW) are horizontal and facing end of conveyor. Then slide cam assemblies against head plates (S) and re-tighten cam fastening screws (BU) to 60 in-lb (7 Nm).
3. On the side toward which the belt is tracking, loosen head plate fastening screws (U).
4. With the conveyor running, use a 5 mm hex-key wrench to rotate the tracking cam (BV) in small increments until the belt tracks in the center of the conveyor. Then while holding the cam in position, re-tighten the head plate fastening screws (U) with a 4 mm hex-key wrench to 60 in-lb (7 Nm).

Pulley Removal

⚠ WARNING



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

Remove the conveyor belt to access the pulley(s). Perform the indicated steps of one of the following procedures:

- “Belt Removal for Conveyor Without Gearmotor Mounting Package or Stands”, page 11, steps 1 through 7.
- “Belt Removal for Conveyor With Stands and Gearmotor Mounting Package”, page 12, steps 1 through 10.

Remove desired pulley following procedures:

- Conveyor End Pulley Removal
- Module Drive Pulley Removal
- Module Idler Pulley Removal

Conveyor End Pulley Removal

1. On one side of the conveyor, loosen two (2) head plate fastening screws (Figure 43, item U) and remove them.

NOTE

To prevent damage to the head plates and pulley, be sure to remove them slowly because they are not attached to pulley.



Figure 43

2. Remove the head plate (Figure 44, item BX) from the conveyor frame.

Preventive Maintenance and Adjustment

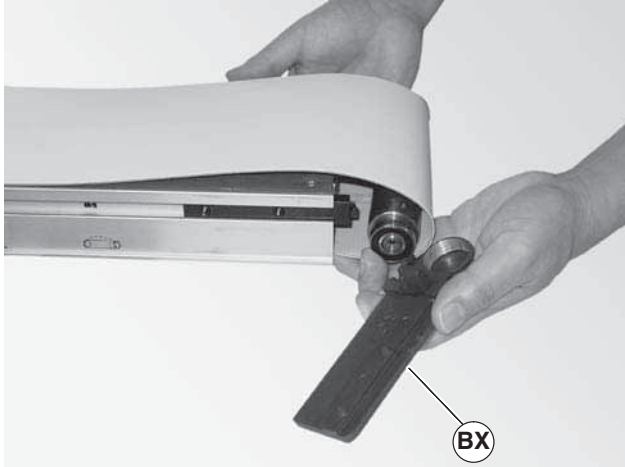


Figure 44

3. Pulley will slide out of opposite head plate and drop into slack of belt (Figure 45).



Figure 45

4. Slide spindle out of the belt loop.

Drive Module Drive Pulley Removal

1. Remove the gearmotor drive package. Refer to “Gearmotor Mounting Package Removal”, page 12.
2. Remove the drive module. Refer to “Drive Module Removal”, page 13.
3. Remove the drive pulley. Refer to “Belt Removal from Drive Module”, page 14, steps 1 and 2.

Drive Module Idler Pulley Removal

1. Remove the gearmotor drive package. Refer to “Gearmotor Mounting Package Removal”, page 12.
2. Remove the drive module. Refer to “Drive Module Removal”, page 13.
3. Remove the grooved idler pulley. Refer to “Belt Removal from Drive Module”, page 14, step 3.

4. Remove smooth idler pulleys:

- For 2” (44 mm), 3” (70 mm) or 4” (95 mm) wide conveyor, detach E-ring clips and remove washers (Figure 46, item BZ). Remove pulley shafts (CA) and pulleys (CB).

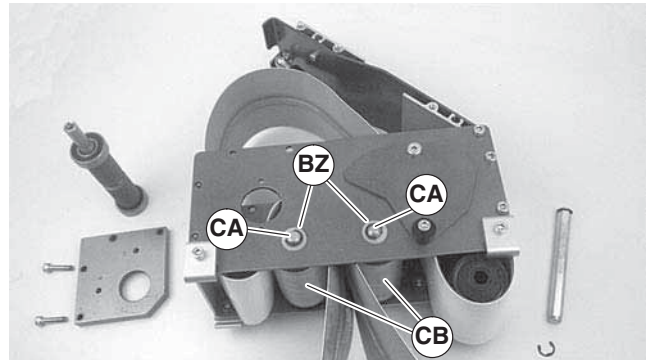


Figure 46

- For 5” (127 mm) or wider conveyor, depress both sides of each spring-loaded shaft (Figure 47, item CC). Remove pulleys (CD).

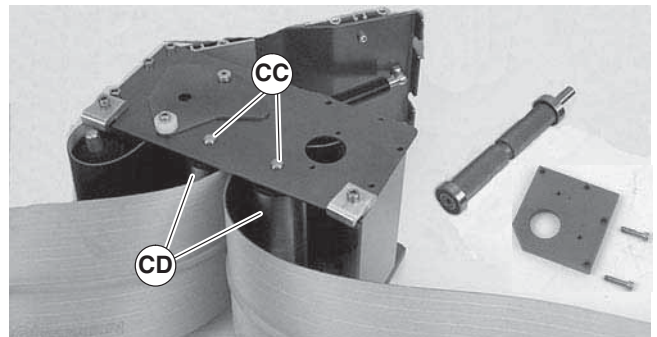


Figure 47

Conveyor Pulley Bearing Removal and Replacement

Removal

IMPORTANT

Do not re-use any removed bearings. Replace them.

NOTE

The conveyor and drive pulley bearing are held onto the pulleys with a mild adhesive and must be removed with a bearing puller or similar device.

1. Use a bearing removal tool, (Figure 48, item CF), (Figure 49, item CF), part number 807-1078, or equivalent and remove both bearings from the conveyor pulley and the drive pulley.

Preventive Maintenance and Adjustment

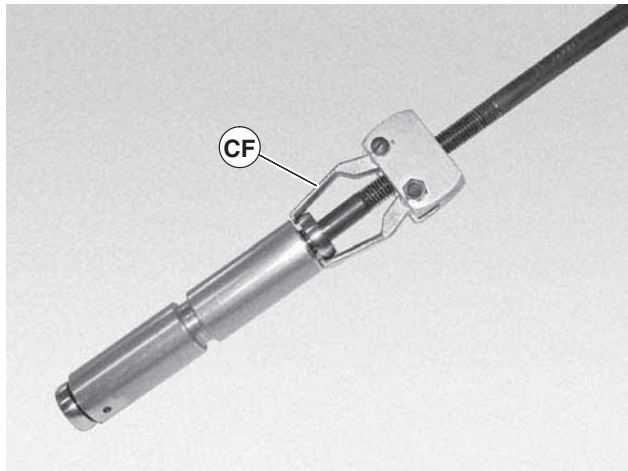


Figure 48

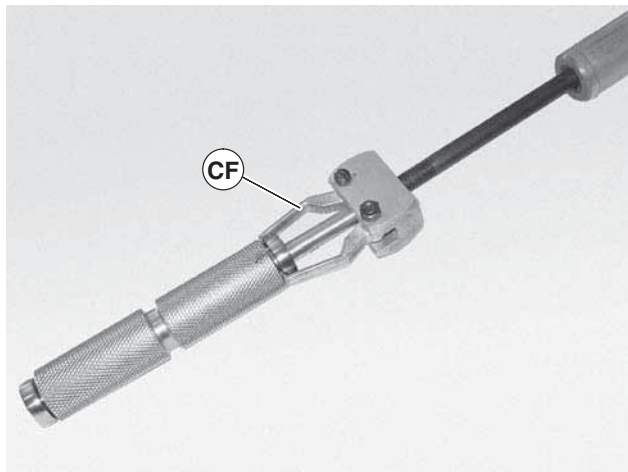


Figure 49

Replacement

1. Inspect the head plates bearing seating surface (Figure 50, item CG). If they are worn or damaged, replace the head. See "Service Parts" section, page 33 to page 36.

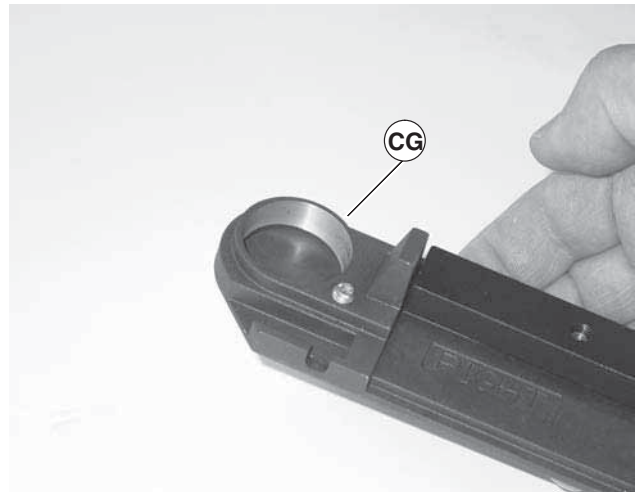


Figure 50

NOTE

Two washers may be required when installing the bearing over the drive shaft on the drive pulley, if the bearing installation tool is not long enough to fit the length of the drive shaft.

2. Use a bearing installation tool, (Figure 51, item CI), part number 450292, or equivalent and press bearings onto the conveyor pulley and drive pulley.

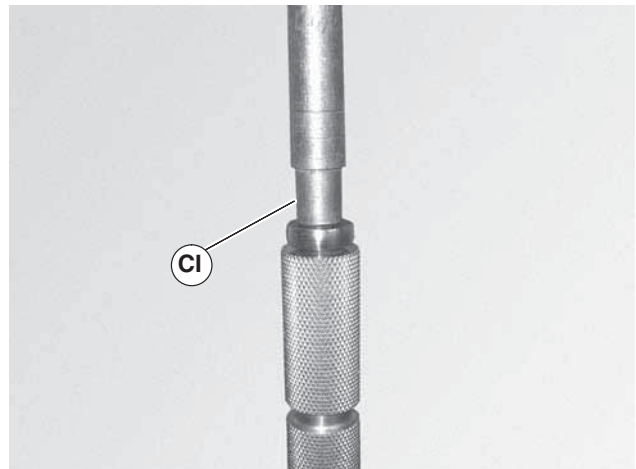


Figure 51

Conveyor Pulley Installation

1. With opposite head plate installed, position the conveyor pulley through the loop of the belt, into the opposite head plate.

Preventive Maintenance and Adjustment

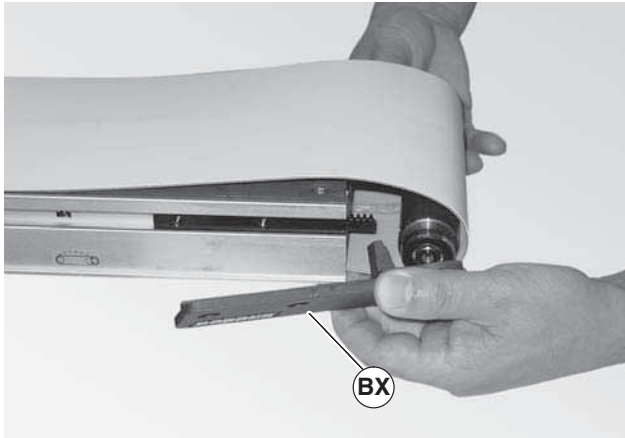


Figure 52

2. Place the head plate (Figure 52, item BX) and attach the head plate to the conveyor frame with the two (2) plates removed. tighten screws 60 in-lb (7 Nm).

Drive Module Drive Pulley

1. Reverse “Drive Module Drive Pulley Removal” procedure on page 19.
2. Re-install belt on end of conveyor, then tension the belt. See “Conveyor Tension End Adjustment”, page 16.
3. Re-position the cam assemblies against the head plates and adjust belt tracking. See “Conveyor Belt Tracking”, page 18.

Drive Module Idler Pulley

1. Reverse “Drive Module Idler Pulley Removal” procedure on page 19.
2. Re-install belt on end of conveyor, then tension the belt. See “Conveyor Tension End Adjustment”, page 16.
3. Re-position the cam assemblies against the head plates and adjust belt tracking. See “Conveyor Belt Tracking”, page 18.

Nose Bar Bearing Replacement

⚠ WARNING

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

1. Remove the conveyor belt to access the bearings. Perform the indicated steps of one of the following procedures:
 - “Belt Removal for Conveyor Without Gearmotor Mounting Package or Stands”, page 11, steps 1 through 7.
 - “Belt Removal for Conveyor With Stands and Gearmotor Mounting Package”, page 12, steps 1 through 10.
2. On one side of conveyor, use a 3 mm and 4 mm hex-key wrench to remove head plate fastening screws (Figure 53, item CH & U) and remove head plate (S).

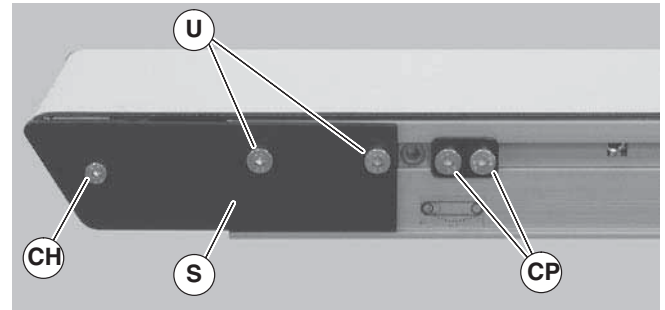


Figure 53

3. Slide bearing rods (Figure 54, item CI) out side of conveyor and replace bearings (CJ) as necessary.

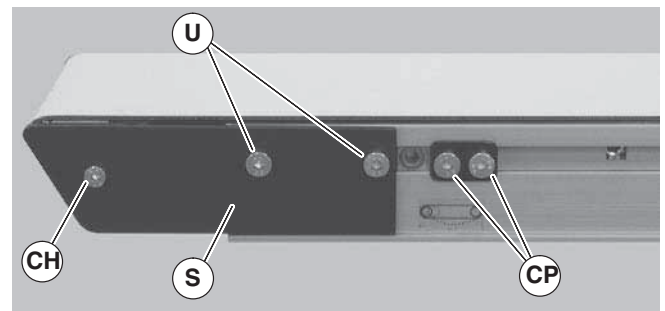


Figure 54

4. After replacing bearings, re-install head plate (Figure 53, item S). Use a 3 mm hex-key wrench to tighten one (1) fastening screw (CH) to 30 in-lb (3.4 Nm). Leave two (2) fastening screws (U) loose for belt tensioning.
5. Re-install belt on end of conveyor, then tension the belt. See “Conveyor Tension End Adjustment”, page 16.
6. Re-position the cam assemblies against the head plates and adjust belt tracking. See “Conveyor Belt Tracking”, page 18.

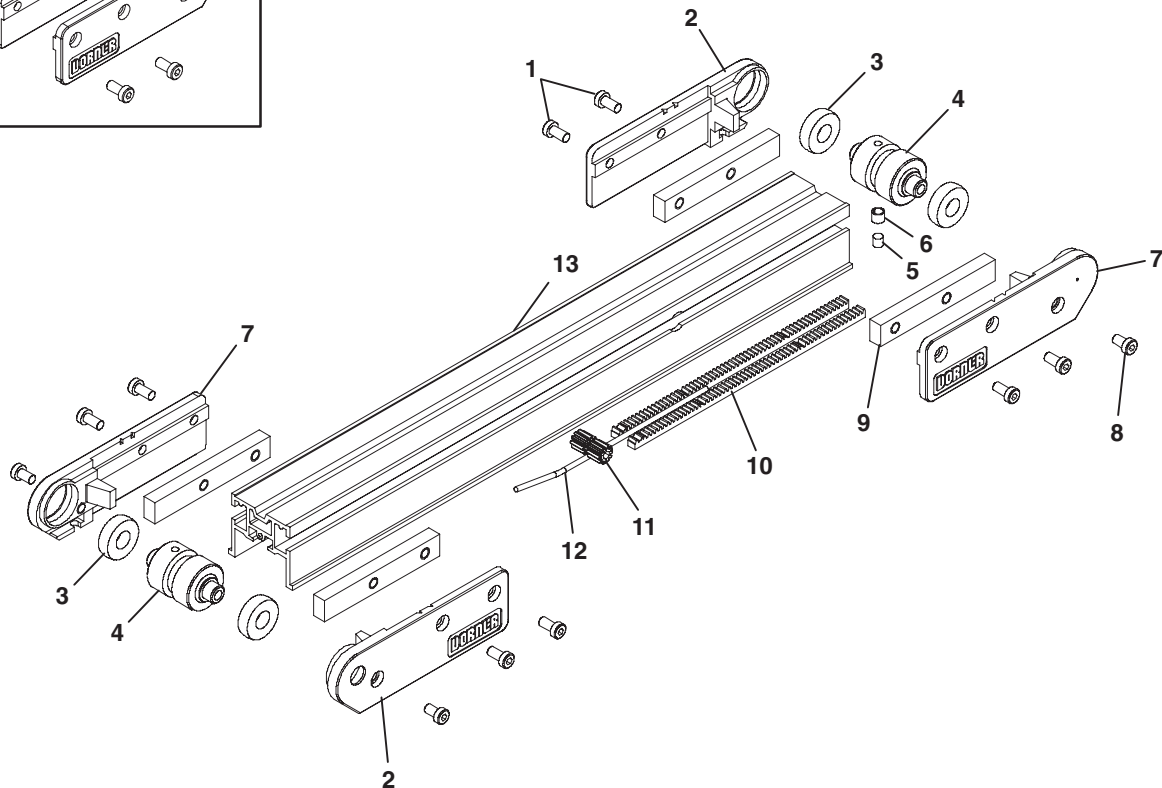
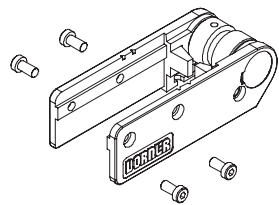
Service Parts

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.

2" (51mm) Wide Conveyor

14 Idler Spindle Kit



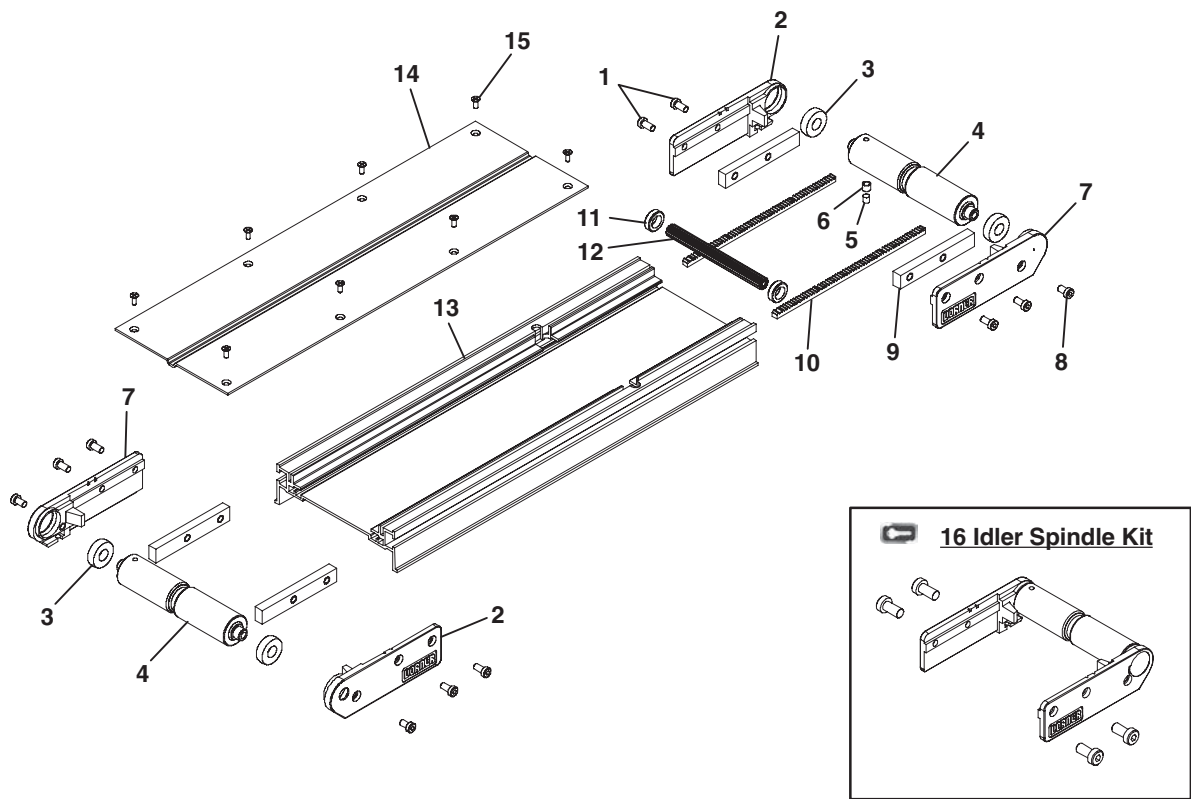
Item	Part Number	Description
1	920692M	Socket Head Screw M6 x 12mm
2	240425	Head Plate LH
3	240328	Bearing
4	247302	Idler Spindle 2" (51mm)
5	808-020	Magnet .25" Dia. x .25" long
6	450226SSP	Sleeve, .25" Magnet Stainless Steel
7	240426	Head Plate RH
8	920691M	Socket Head Screw M6 x 10mm
9	240329	Tension Slide Bar
10	240420	Rack Gear 14.5 Degree PA x 24 P
11	240423	Pinion 2" (51mm)
12	240422	Pinion Pin
13	See Frame Chart	2" (51mm) Frame
14	22T-02	Idler Spindle Kit (Includes Items 1 through 8)



Item 13: 2" (51mm) Conveyor Frame	
Length	Part Number
2' (610mm4')	240402-01908
3' (914mm)	240402-03108
(1219mm)	240402-04308
5' (1524mm)	240402-05508
6' (1829mm)	240402-06708
7' (2134mm)	240402-07908
8' (2438mm)	240402-09108
9' (2743mm)	240402-10308
10' (3048mm)	240402-11508
11' (3353mm)	240402-12708
12' (3658mm)	240402-13908
13' (3962mm)	240402-07200 240402-07908
14' (4267mm)	240402-07200 240402-09108
15' (4572mm)	240402-07200 240402-10308
16' (4877mm)	240402-07200 240402-11508
17' (5182mm)	240402-07200 240402-12708
18' (5486mm)	240402-07200 240402-13908
19' (5791mm)	240402-14400 240402-07908
20' (6096mm)	240402-14400 240402-09108
21' (6401mm)	240402-14400 240402-10308
22' (6706mm)	240402-14400 240402-11508
23' (7010mm)	240402-14400 240402-12708
24' (7315mm)	240402-14400 240402-13908

Service Parts

3" (76mm) to 6" (152mm) Wide Conveyor



Service Parts

Item	Part Number	Description
1	920692M	Socket Head Screw M6 x 12mm
2	240425	Head Plate LH
3	240328	Bearing
4	2473WW	Idler Spindle
5	808-020	Magnet .25" Dia. x .25" long
6	450226SSP	Sleeve, .25" Magnet Stainless Steel
7	240426	Head Plate RH
8	920691M	Socket Head Screw M6 x 10mm
9	240329	Tension Slide Bar
10	240420	Rack Gear 14.5 Degree PA x 24P
11	240421	Pinion Bushing
12	2030WWW	Pinion Gear
13	See Frame Chart	Conveyor Frame
14	See Bed Plate Chart	Conveyor Bed Plate
15	807-1105	Flat Head Torx Screw M6 x 10mm
16	22T-WW	Idler Spindle Kit (Includes Items 1 through 8)
WW = Conveyor width reference: 03, 04, 05, 06		

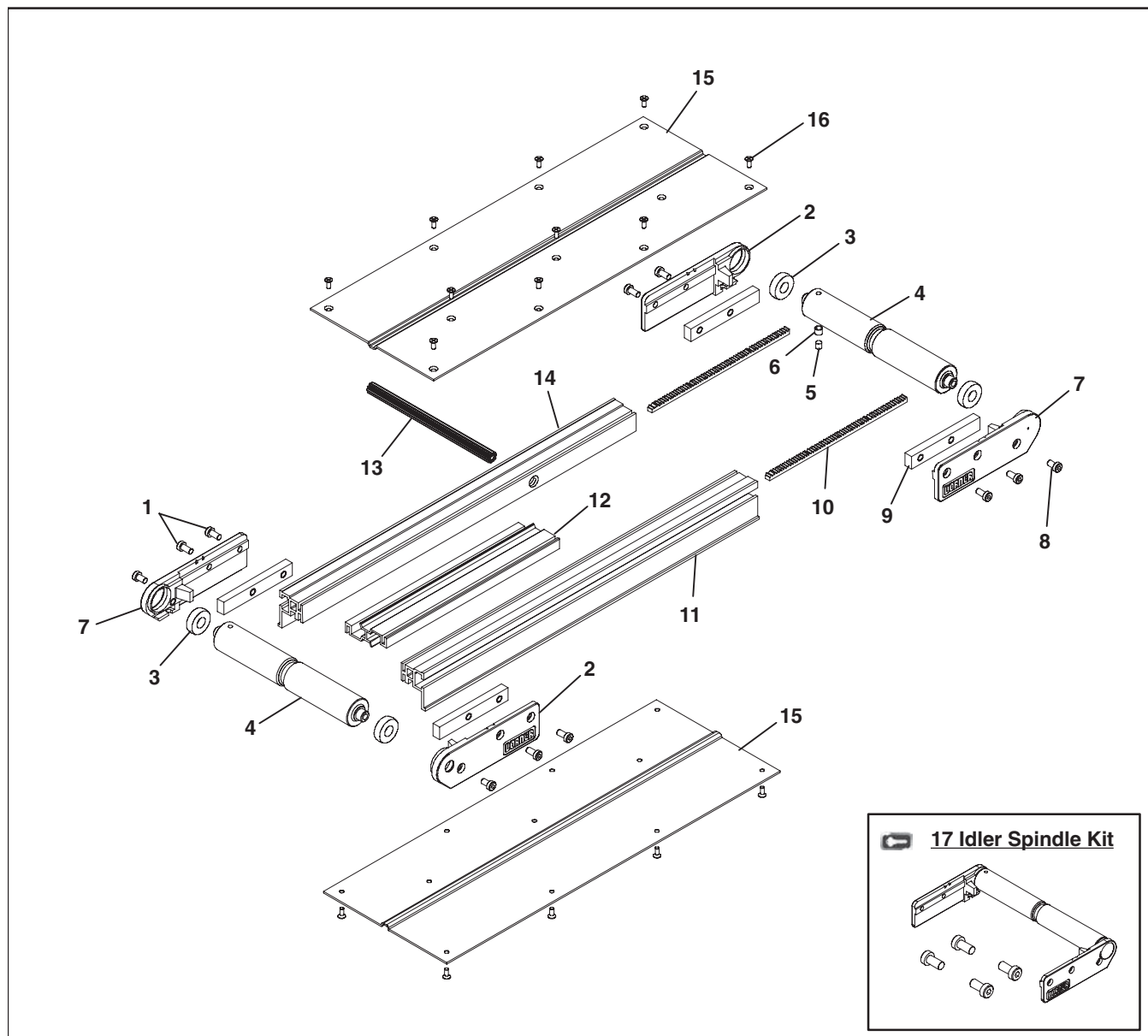
Item 13: Conveyor Frame	
Length	Part Number
2' (610mm)	2404WW-01908
3' (914mm)	2404WW-03108
4' (1219mm)	2404WW-04308
5' (1524mm)	2404WW-05508
6' (1829mm)	2404WW-06708
7' (2134mm)	2404WW-07908
8' (2438mm)	2404WW-09108
9' (2743mm)	2404WW-10308
10' (3048mm)	2404WW-11508
11' (3353mm)	2404WW-12708
12' (3658mm)	2404WW-13908
13' (3962mm)	2404WW-07200 2404WW-07908
14' (4267mm)	2404WW-07200 2404WW-09108
15' (4572mm)	2404WW-07200 2404WW-10308
16' (4877mm)	2404WW-07200 2404WW-11508
17' (5182mm)	2404WW-07200 2404WW-12708
18' (5486mm)	2404WW-07200 2404WW-13908
19' (5791mm)	2404WW-14400 2404WW-07908
20' (6096mm)	2404WW-14400 2404WW-09108
21' (6401mm)	2404WW-14400 2404WW-10308
22' (6706mm)	2404WW-14400 2404WW-11508
23' (7010mm)	2404WW-14400 2404WW-12708
24' (7315mm)	2404WW-14400 2404WW-13908
WW = Conveyor width reference: 03, 04, 05, 06	

Item 14: Bed Plate	
Length	Part Number
2' (610mm)	2405WW-01900
3' (914mm)	2405WW-03100
4' (1219mm)	2405WW-04300
5' (1524mm)	2405WW-05500
6' (1829mm)	2405WW-06700
7' (2134mm)	2405WW-07900

Item 14: Bed Plate	
Length	Part Number
8' (2438mm)	2405WW-09100
9' (2743mm)	2405WW-10300
10' (3048mm)	2405WW-11500
11' (3353mm)	2405WW-12700
12' (3658mm)	2405WW-13900
13' (3962mm)	2405WW-07196 2405WW-07900
14' (4267mm)	2405WW-07196 2405WW-09100
15' (4572mm)	2405WW-07196 2405WW-10300
16' (4877mm)	2405WW-07196 2405WW-11500
17' (5182mm)	2405WW-07196 2405WW-12700
18' (5486mm)	2405WW-07196 2405WW-13900
19' (5791mm)	2405WW-14396 2405WW-07900
20' (6096mm)	2405WW-14396 2405WW-09100
21' (6401mm)	2405WW-14396 2405WW-10300
22' (6706mm)	2405WW-14396 2405WW-11500
23' (7010mm)	2405WW-14396 2405WW-12700
24' (7315mm)	2405WW-14396 2405WW-13900
WW = Conveyor width reference: 03, 04, 05, 06	

Service Parts

8" (203mm) to 12" (305mm) Wide Conveyor



Item	Part Number	Description
1	920692M	Socket Head Screw M6 x 12mm
2	240425	Head Plate LH
3	240328	Bearing
4	2473WW	Idler Spindle
5	808-020	Magnet .25" Dia. x .25" long
6	450226SSP	Sleeve, .25" Magnet Stainless Steel
7	240426	Head Plate RH
8	920691M	Socket Head Screw M6 x 10mm
9	240329	Tension Slide Bar
10	240420	Rack Gear 14.5 Degree PA x 24 P
11	See Chart	Side Rail RH
12	See Chart	Center Rail
13	2030WWM	Pinion Gear
14	See Chart	Side Rail LH

Item	Part Number	Description
15	See Chart	Conveyor Bed Plate
16	807-1105	Flat Head Torx Screw M6 x 10mm
17	22T-WW	Idler Spindle Kit (Includes Items 1 through 8)
WW = Conveyor width reference: 08, 10, 12		

Item 11: Side Rail RH	
Length	Part Number
2' (610mm)	240412-01908
3' (914mm)	240412-03108
4' (1219mm)	240412-04308
5' (1524mm)	240412-05508
6' (1829mm)	240412-06708
7' (2134mm)	240412-07908
8' (2438mm)	240412-09108

Service Parts

Item 11: Side Rail RH	
Length	Part Number
9' (2743mm)	240412-10308
10' (3048mm)	240412-11508
11' (3353mm)	240412-12708
12' (3658mm)	240412-13908
13' (3962mm)	240412-07200 240412-07908
14' (4267mm)	240412-07200 240412-09108
15' (4572mm)	240412-07200 240412-10308
16' (4877mm)	240412-07200 240412-11508
17' (5182mm)	240412-07200 240412-12708
18' (5486mm)	240412-07200 240412-13908
19' (5791mm)	240412-14400 240412-07908
20' (6096mm)	240412-14400 240412-09108
21' (6401mm)	240412-14400 240412-10308
22' (6706mm)	240412-14400 240412-11508
23' (7010mm)	240412-14400 240412-12708
24' (7315mm)	240412-14400 240412-13908

Item 12: Center Rail	
Length	Part Number
2' (610mm)	240414-01273
3' (914mm)	240414-02473
4' (1219mm)	240414-03673
5' (1524mm)	240414-04873
6' (1829mm)	240414-06073
7' (2134mm)	240414-07273
8' (2438mm)	240414-08473
9' (2743mm)	240414-09673
10' (3048mm)	240414-10873
11' (3353mm)	240414-12073
12' (3658mm)	240414-13273
13' (3962mm)	240414-07200 240414-07273
14' (4267mm)	240414-07200 240414-08473
15' (4572mm)	240414-07200 240414-09673
16' (4877mm)	240414-07200 240414-10873
17' (5182mm)	240414-07200 240414-12073
18' (5486mm)	240414-07200 240414-13273
19' (5791mm)	240414-14400 240414-07273
20' (6096mm)	240414-14400 240414-08473
21' (6401mm)	240414-14400 240414-09673
22' (6706mm)	240414-14400 240414-10873
23' (7010mm)	240414-14400 240414-12073
24' (7315mm)	240414-14400 240414-13273

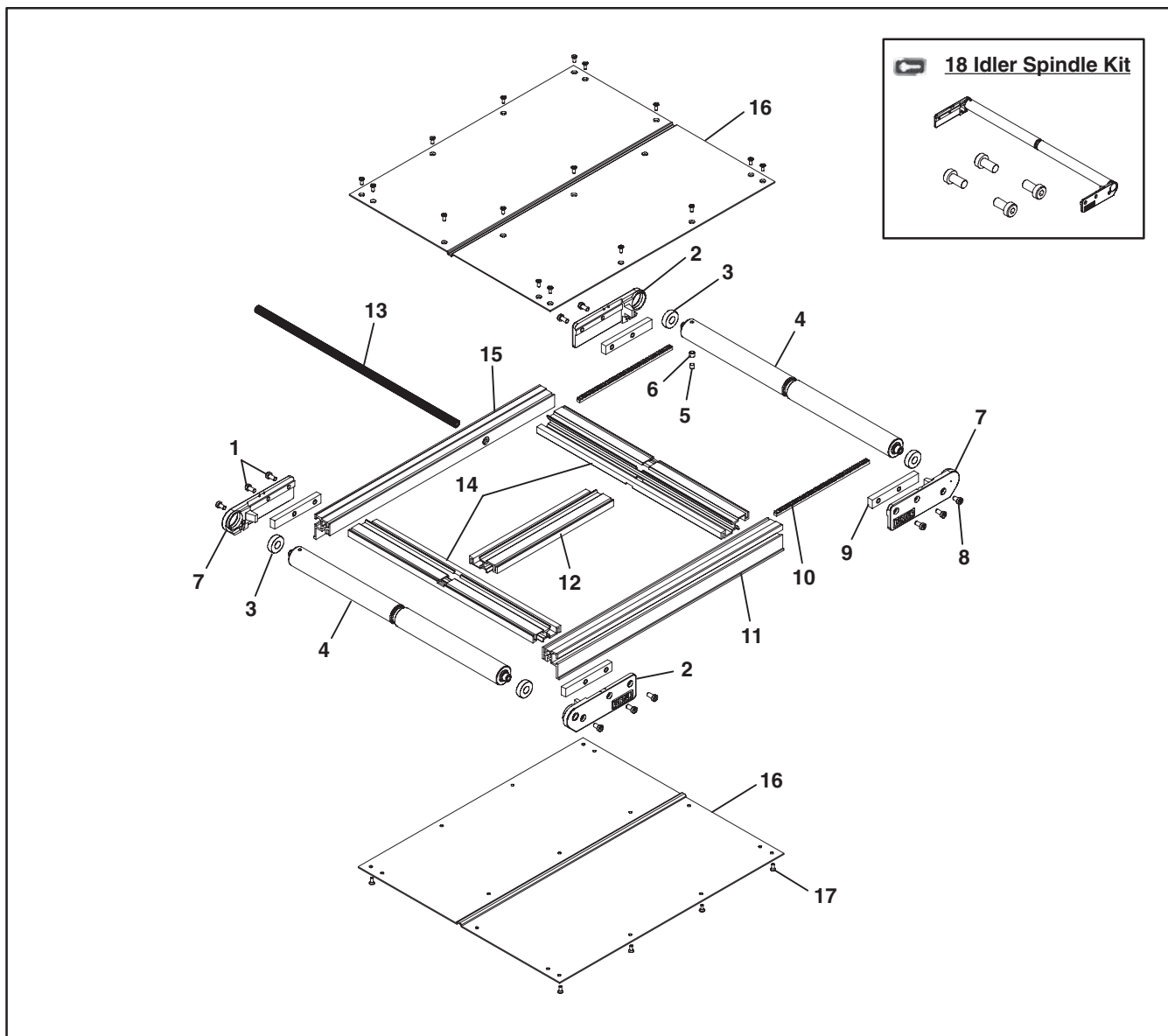
Item 14: Side Rail LH	
Length	Part Number
2' (610mm)	2405WW-01900
3' (914mm)	2405WW-03100
4' (1219mm)	2405WW-04300
5' (1524mm)	2405WW-05500
6' (1829mm)	2405WW-06700
7' (2134mm)	2405WW-07900
8' (2438mm)	2405WW-09100
9' (2743mm)	2405WW-10300
10' (3048mm)	2405WW-11500
11' (3353mm)	2405WW-12700
12' (3658mm)	2405WW-13900

Item 14: Side Rail LH	
Length	Part Number
13' (3962mm)	2405WW-07196 2405WW-07900
14' (4267mm)	2405WW-07196 2405WW-09100
15' (4572mm)	2405WW-07196 2405WW-10300
16' (4877mm)	2405WW-07196 2405WW-11500
17' (5182mm)	2405WW-07196 2405WW-12700
18' (5486mm)	2405WW-07196 2405WW-13900
19' (5791mm)	2405WW-14396 2405WW-07900
20' (6096mm)	2405WW-14396 2405WW-09100
21' (6401mm)	2405WW-14396 2405WW-10300
22' (6706mm)	2405WW-14396 2405WW-11500
23' (7010mm)	2405WW-14396 2405WW-12700
24' (7315mm)	2405WW-14396 2405WW-13900
WW = Conveyor width reference: 08, 10, 12	

Item 15: Bed Plate	
Length	Part Number
2' (610mm)	240413-01908
3' (914mm)	240413-03108
4' (1219mm)	240413-04308
5' (1524mm)	240413-05508
6' (1829mm)	240413-06708
7' (2134mm)	240413-07908
8' (2438mm)	240413-09108
9' (2743mm)	240413-10308
10' (3048mm)	240413-11508
11' (3353mm)	240413-12708
12' (3658mm)	240413-13908
13' (3962mm)	240413-07200 240413-07908
14' (4267mm)	240413-07200 240413-09108
15' (4572mm)	240413-07200 240413-10308
16' (4877mm)	240413-07200 240413-11508
17' (5182mm)	240413-07200 240413-12708
18' (5486mm)	240413-07200 240413-13908
19' (5791mm)	240413-14400 240413-07908
20' (6096mm)	240413-14400 240413-09108
21' (6401mm)	240413-14400 240413-10308
22' (6706mm)	240413-14400 240413-11508
23' (7010mm)	240413-14400 240413-12708
24' (7315mm)	240413-14400 240413-13908

Service Parts

18" (457mm) to 24" (610mm) Wide Conveyor



Item	Part Number	Description
1	920692M	Socket Head Screw M6 x 12mm
2	240425	Head Plate LH
3	240328	Bearing
4	2473WW	Idler Spindle
5	808-020	Magnet .25" Dia. x .25" long
6	450226SSP	Sleeve, .25" Magnet Stainless Steel
7	240426	Head Plate RH
8	920691M	Socket Head Screw M6 x 10mm
9	240329	Tension Slide Bar
10	240420	Rack Gear 14.5 Degree PA x 24 P
11	See Chart	Side Rail RH
12	See Chart	Center Rail
13	2030WW	Pinion Gear
14	240417	Center Rail Cross Support 18" (457mm)

Item	Part Number	Description
	240418	Center Rail Cross Support 21" (533mm)
	240419	Center Rail Cross Support 24" (610mm)
15	See Chart	Side Rail LH
16	See Chart	Conveyor Bed Plate
17	807-1105	Flat Head Torx Screw M6 x 10mm
18	22T-WW	Idler Spindle Kit (Includes Items 1 through 2 and 4 through 9)

WW = Conveyor width reference: 18, 21, 24

Item 11: Side Rail RH	
Length	Part Number
2' (610mm)	240412-01908
3' (914mm)	240412-03108
4' (1219mm)	240412-04308
5' (1524mm)	240412-05508

Service Parts

Item 11: Side Rail RH	
Length	Part Number
6' (1829mm)	240412-06708
7' (2134mm)	240412-07908
8' (2438mm)	240412-09108
9' (2743mm)	240412-10308
10' (3048mm)	240412-11508
11' (3353mm)	240412-12708
12' (3658mm)	240412-13908
13' (3962mm)	240412-07200 240412-07908
14' (4267mm)	240412-07200 240412-09108
15' (4572mm)	240412-07200 240412-10308
16' (4877mm)	240412-07200 240412-11508
17' (5182mm)	240412-07200 240412-12708
18' (5486mm)	240412-07200 240412-13908
19' (5791mm)	240412-14400 240412-07908
20' (6096mm)	240412-14400 240412-09108
21' (6401mm)	240412-14400 240412-10308
22' (6706mm)	240412-14400 240412-11508
23' (7010mm)	240412-14400 240412-12708
24' (7315mm)	240412-14400 240412-13908

Item 12: Center Rail	
Length	Part Number
2' (610mm)	240414-00998
3' (914mm)	240414-02198
4' (1219mm)	240414-03398
5' (1524mm)	240414-04598
6' (1829mm)	240414-05798
7' (2134mm)	240414-06998
8' (2438mm)	240414-08198
9' (2743mm)	240414-09398
10' (3048mm)	240414-10598
11' (3353mm)	240414-11798
12' (3658mm)	240414-12998
13' (3962mm)	240414-06600 240414-06998
14' (4267mm)	240414-06600 240414-08198
15' (4572mm)	240414-06600 240414-09398
16' (4877mm)	240414-06600 240414-10598
17' (5182mm)	240414-06600 240414-11798
18' (5486mm)	240414-06600 240414-12998
19' (5791mm)	240414-13800 240414-06998
20' (6096mm)	240414-13800 240414-08198
21' (6401mm)	240414-13800 240414-09398
22' (6706mm)	240414-13800 240414-10598
23' (7010mm)	240414-13800 240414-11798
24' (7315mm)	240414-13800 240414-12998

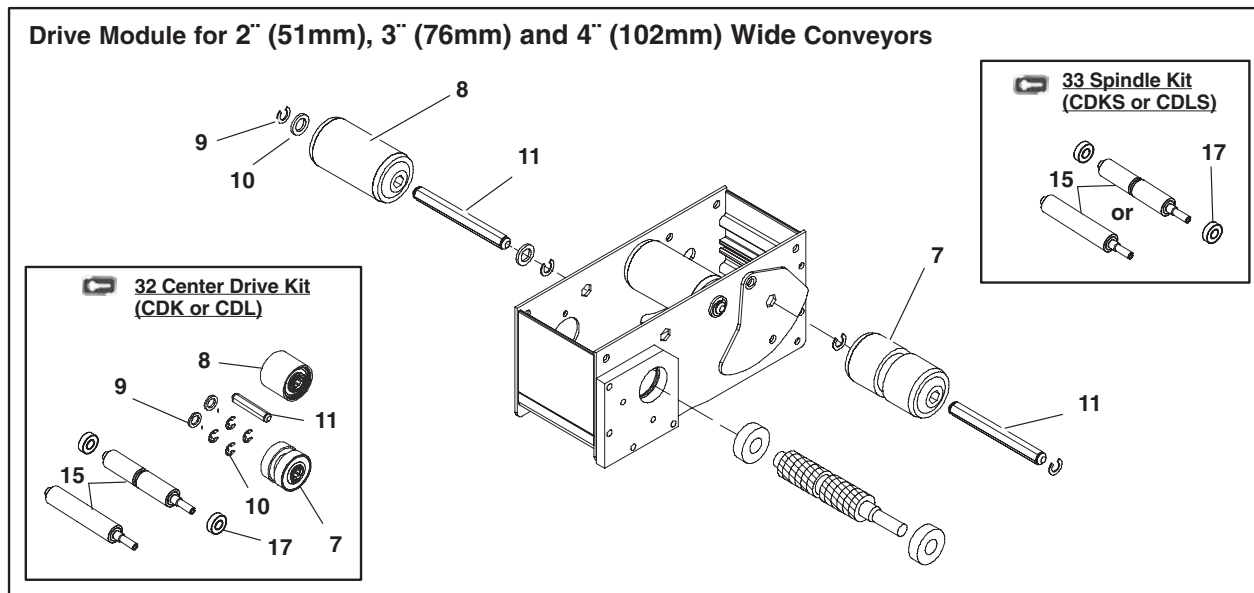
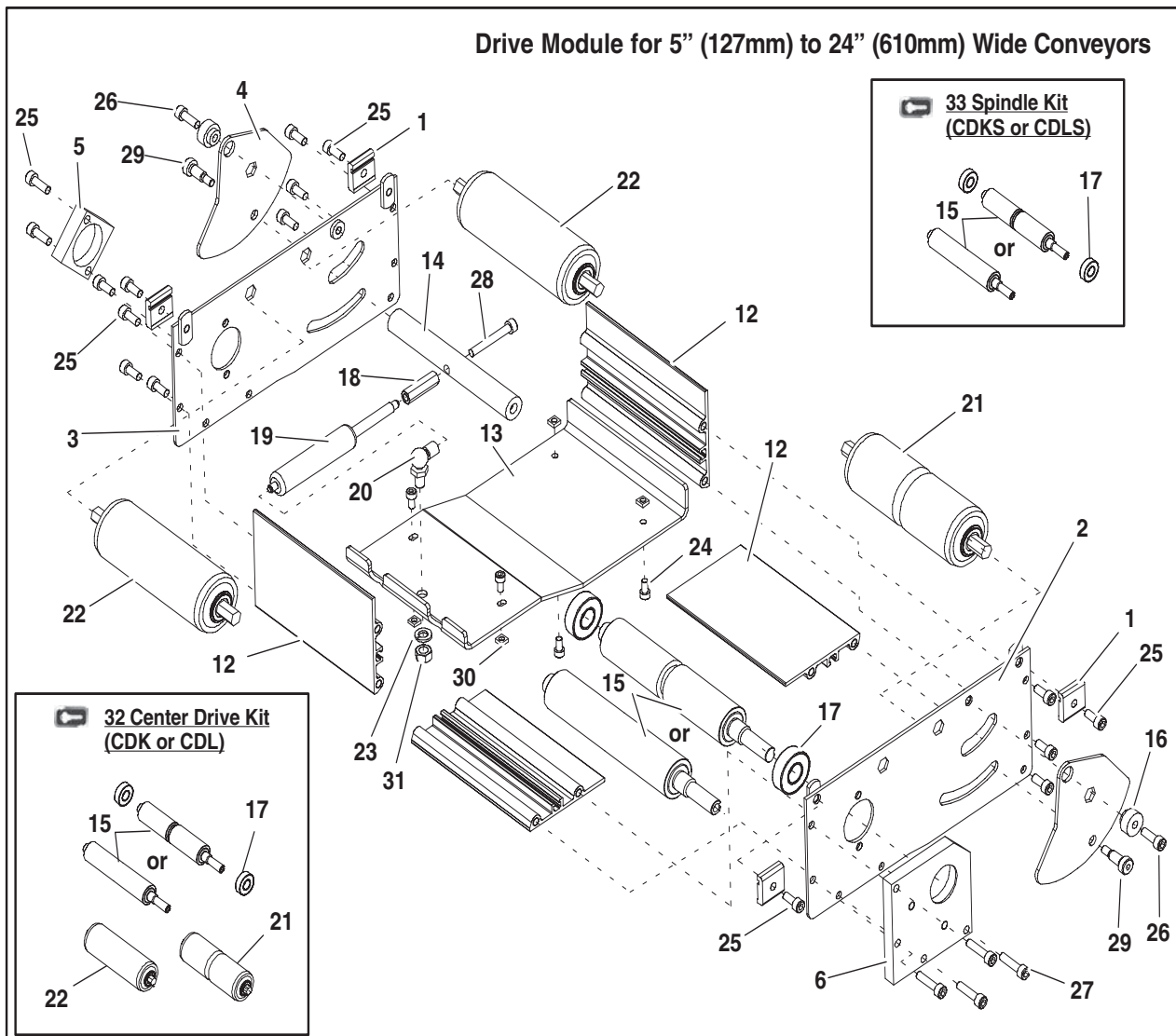
Item 15: Side Rail LH	
Length	Part Number
2' (610mm)	2405WW-01900
3' (914mm)	2405WW-03100
4' (1219mm)	2405WW-04300
5' (1524mm)	2405WW-05500
6' (1829mm)	2405WW-06700
7' (2134mm)	2405WW-07900
8' (2438mm)	2405WW-09100
9' (2743mm)	22405WW-10300

Item 15: Side Rail LH	
Length	Part Number
10' (3048mm)	2405WW-11500
11' (3353mm)	2405WW-12700
12' (3658mm)	2405WW-13900
13' (3962mm)	2405WW-07196 2405WW-07900
14' (4267mm)	2405WW-07196 2405WW-09100
15' (4572mm)	2405WW-07196 2405WW-10300
16' (4877mm)	2405WW-07196 2405WW-11500
17' (5182mm)	2405WW-07196 2405WW-12700
18' (5486mm)	2405WW-07196 2405WW-13900
19' (5791mm)	2405WW-14396 2405WW-07900
20' (6096mm)	2405WW-14396 2405WW-09100
21' (6401mm)	2405WW-14396 2405WW-10300
22' (6706mm)	2405WW-14396 2405WW-11500
23' (7010mm)	2405WW-14396 2405WW-12700
24' (7315mm)	2405WW-14396 2405WW-13900
WW = Conveyor width reference: 18, 21, 24	

Item 16: Bed Plate	
Length	Part Number
2' (610mm)	240413-01908
3' (914mm)	240413-03108
4' (1219mm)	240413-04308
5' (1524mm)	240413-05508
6' (1829mm)	240413-06708
7' (2134mm)	240413-07908
8' (2438mm)	240413-09108
9' (2743mm)	240413-10308
10' (3048mm)	240413-11508
11' (3353mm)	240413-12708
12' (3658mm)	240413-13908
13' (3962mm)	240413-07200 240413-07908
14' (4267mm)	240413-07200 240413-09108
15' (4572mm)	240413-07200 240413-10308
16' (4877mm)	240413-07200 240413-11508
17' (5182mm)	240413-07200 240413-12708
18' (5486mm)	240413-07200 240413-13908
19' (5791mm)	240413-14400 240413-07908
20' (6096mm)	240413-14400 240413-09108
21' (6401mm)	240413-14400 240413-10308
22' (6706mm)	240413-14400 240413-11508
23' (7010mm)	240413-14400 240413-12708
24' (7315mm)	240413-14400 240413-13908

Service Parts

2200 Center Drive Module



Service Parts

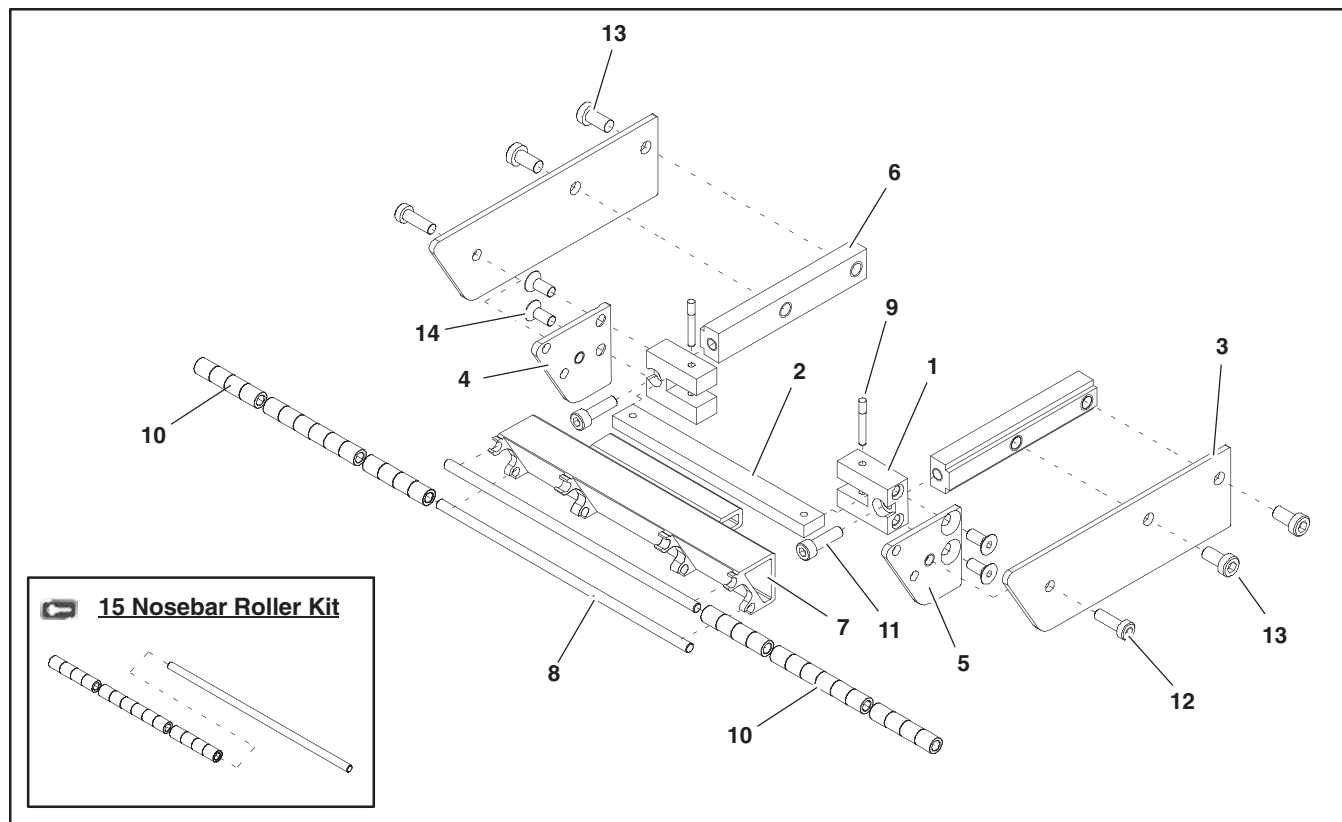
Item	Part Number	Description
1	204566	Module Mounting Clip
2	202633M	Side Plate LH
3	202634M	Side Plate RH
4	463026M	Pivot Tension Plate
5	463028M	Bearing Mounting Block
6	463029M	Bearing-Drive Mounting Plate
7	463044	Roller 1.9" .44hex Grv 2" (51mm)
	463045	Roller 1.9" .44hex Grv 3" (76mm)
	807-1001	Roller 1.9" .44hex Grv 4" (102mm)
8	463046	Roller 1.9" .44hex SS Flat 2" (51mm)
	807-1007	Roller 1.9" .44hex SS Flat 3" (76mm)
	807-1008	Roller 1.9" .44hex SS Flat 4" (102mm)
9	915-215	E-Ring Clip (0.44 diameter)
10	801-115	Washer
11	4634WW	Pulley Shaft
12	4638WW	Center Drive Rail
13	4632WWM	Center Dr Bottom Cover 2" (51mm) through 18" (457mm)
	463205M	Center Dr Bottom Cover 21" (533mm)
	463208M (2x)	
	463212M (2x)	Center Dr Bottom Cover 24" (610mm)
14	4633WWM	Center Dr Tensioning Rod
15	4637WWM	Center Drive Spindle – Knurled
	4639WWM	Center Drive Spindle – Lagged
16	801-117	Nylon Bushing
17	802-124	Ball Bearing
18	807-983	Hex Standoff 13mm x 35mm LG M6
19	807-1040	Gas Spring 2" (51mm) w/o Nosebar
	807-1310	Gas Spring 2" (51mm) w/Nosebar
	807-986	Gas Spring 3" (76mm) w/o Nosebar
	807-1310	Gas Spring 3" (76mm) w/Nosebar
	807-985	Gas Spring 4-6" (102-152mm)
	807-984	Gas Spring 8-12" (203-305mm)
	807-985	Gas Spring 18-24" (457-610mm) (2x)
20	807-987	Steel Ball Joint M6 x M8
21	807-1002	Roller 1.9" .44 Hex Grv 5" (127mm)
	807-1003	Roller 1.9" .44 Hex Grv 6" (152mm)
	807-1004	Roller 1.9" .44 Hex Grv 8" (203mm)
	807-1005	Roller 1.9" .44 Hex Grv 10" (203mm)
	807-1006	Roller 1.9" .44 Hex Grv 12" (305mm)
	807-1091	Roller 1.9" .44 Hex Grv 18" (457mm)
	807-1092	Roller 1.9" .44 Hex Grv 21" (533mm)
	807-1093	Roller 1.9" .44 Hex Grv 24" (610mm)
22	807-1009	Roller 1.9" .44 Hex Flat 5" (51mm)
	807-1010	Roller 1.9" .44 Hex Flat 6" (152mm)
	807-1011	Roller 1.9" .44 Hex Flat 8" (203mm)
	807-1012	Roller 1.9" .44 Hex Flat 10" (203mm)
	807-1013	Roller 1.9" .44 Hex Flat 12" (305mm)
	807-1088	Roller 1.9" .44 Hex Flat 18" (457mm)
	807-1089	Roller 1.9" .44 Hex Flat 21" (533mm)
	807-1090	Roller 1.9" .44 Hex Flat 24" (610mm)
23	911-120	Spring Lock Washer
24	920510M	Socket Head Screw M5 x 10mm
25	920620M	Socket Head Screw M6 x 20mm

Item	Part Number	Description
26	920618M	Socket Head Screw M6 x 18mm
27	920630M	Socket Head Screw M6 x 30mm
28	920625M	Socket Head Screw M6 x 25mm
29	940812M	SHLD Screw 8mm DIA x 12mm
30	990503M	Square Nut, Heavy M5 – .8
31	990801M	Hex Nut, Full M8 – 1.25
32	CDK-WW	Center Drive Repair Kit – Knurled (Includes Items 7 through 11, 15, and 17)
	CDKLWW	Center Drive Repair Kit – Lagged (Includes Items 7 through 11, 15, and 17)
33	CDKS-WW	Spindle Repair Kit – Knurled (Includes Items 15 and 17)
	CDLS-WW	Spindle Repair Kit – Lagged (Includes Items 15 and 17)

WW = Conveyor width ref.: 02, 03, 04, 05, 06, 08, 10, 12, 18, 21, 24

Service Parts

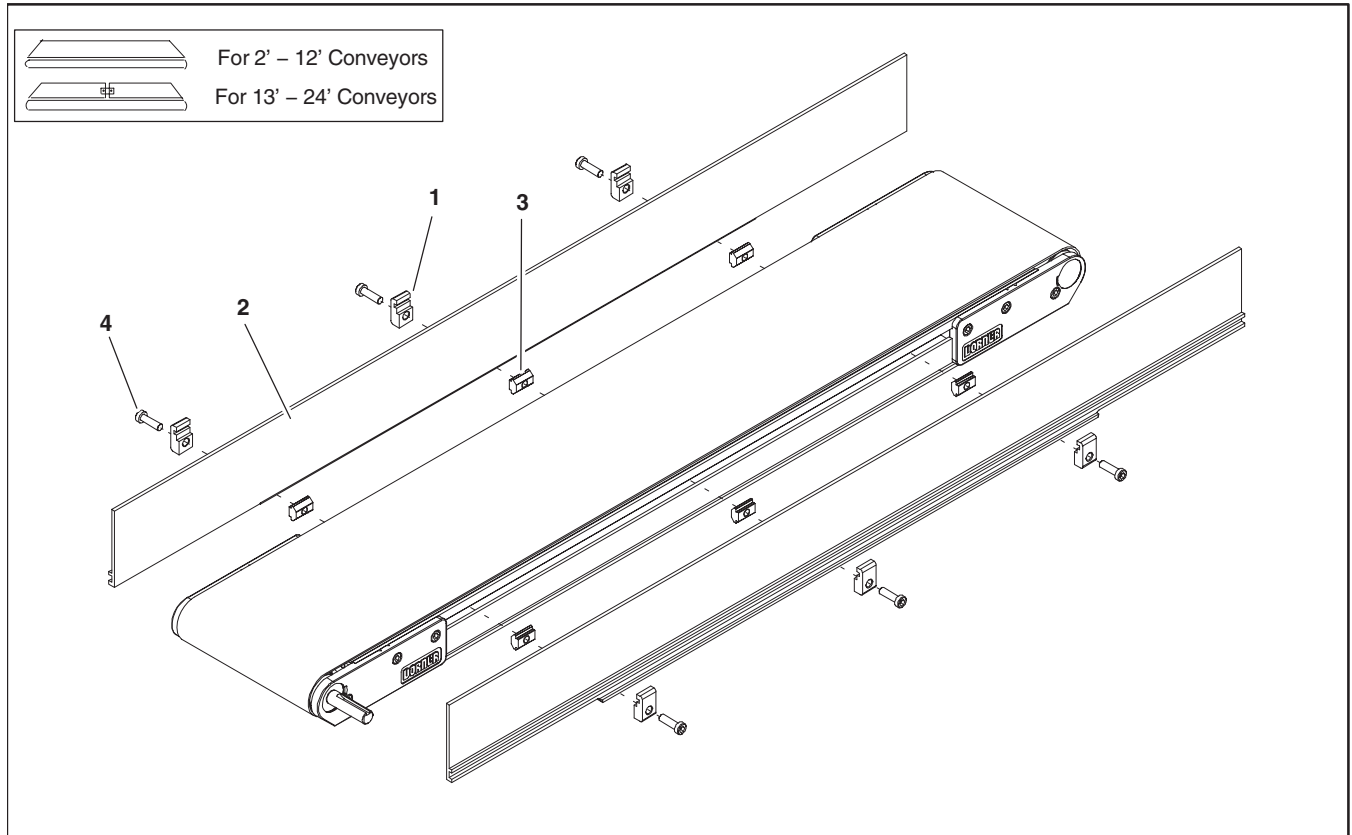
Nosebar End Assembly



Item	Part Number	Description
1	201965	Mounting Block, PLT Spindle
2	2076 WW	Flex-Link Bar
3	241125	Outer Side Plate
4	241126	Inner Side Plate LH
5	241127	Inner Side Plate RH
6	241128	Head Plate Bar
7	2412 WW	Nosebar
8	2413 WW	Nosebar Rod
9	200695P	Knurl Pin .125" DIA x .937" Lg
10	801-122	Nose Bar Roller
11	920518M	Socket Head Screw M5 x 18mm
12	920593M	Socket Head Screw M5 x 16mm
13	920692M	Socket Head Screw M6 x 12mm
14	930512M	Flat Head Screw M5 x 12mm
15	22N- WW	Nosebar Roller Kit (Includes Items 8 and 10)

~~WW~~= Conveyor width ref.: 02, 03, 04, 05, 06, 08, 10, 12, 18, 21, 24

-04 3" (76mm) Aluminum Side



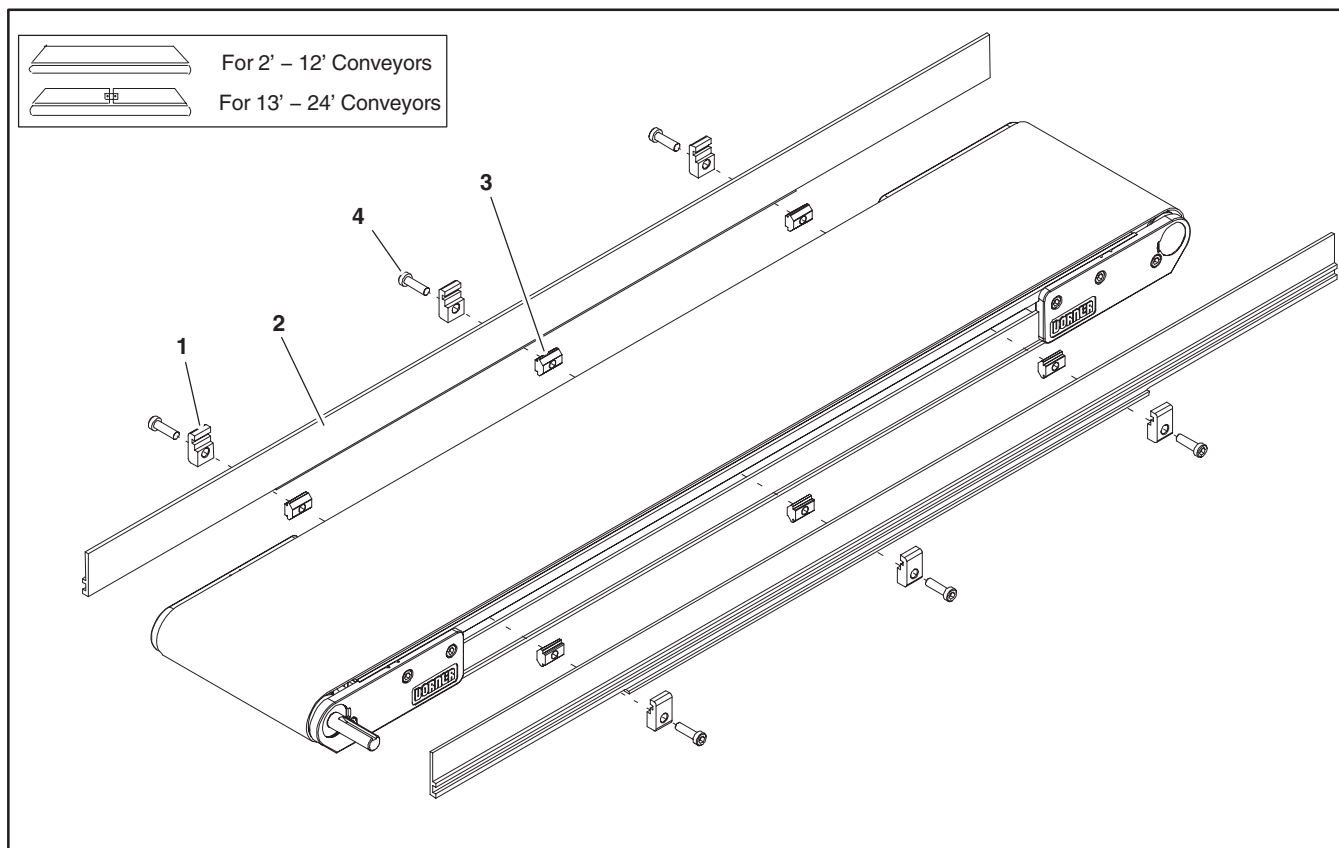
Item	Part Number	Description
1	200121	Guide Retaining Clip
2	See Chart on Next Page	2200 Guide 3" (76mm) HS
3	200695P	Single Drop-in Tee Bar
4	920694M	Socket Head Screw M6 x 20mm

Item 2: 2200 Guide 3" (76mm) HS			
Length		End Guide	End Guide
2' (610mm)	Left Hand	280403-02400	N/A
	Right hand	280403-02400	N/A
3' (914mm)	Left Hand	280403-03600	N/A
	Right hand	280403-03600	N/A
4' (1219mm)	Left Hand	280403-04800	N/A
	Right hand	280403-04800	N/A
5' (1524mm)	Left Hand	280403-06000	N/A
	Right hand	280403-06000	N/A
6' (1829mm)	Left Hand	280403-07200	N/A
	Right hand	280403-07200	N/A
7' (2134mm)	Left Hand	280403-08400	N/A
	Right hand	280403-08400	N/A
8' (2438mm)	Left Hand	280403-09600	N/A
	Right hand	280403-09600	N/A
9' (2743mm)	Left Hand	280403-10800	N/A
	Right hand	280403-10800	N/A
10' (3048mm)	Left Hand	280403-12000	N/A
	Right hand	280403-12000	N/A
11' (3353mm)	Left Hand	280403-13200	N/A
	Right hand	280403-13200	N/A

Item 2: 2200 Guide 3" (76mm) HS			
Length		End Guide	End Guide
12' (3658mm)	Left Hand	280403-14400	N/A
	Right hand	280403-14400	N/A
13' (3962mm)	Left Hand	280401-07500	280401-08100
	Right hand	280402-07500	280402-08100
14' (4267mm)	Left Hand	280401-07500	280401-09300
	Right hand	280402-07500	280402-09300
15' (4572mm)	Left Hand	280401-07500	280401-10500
	Right hand	280402-07500	280402-10500
16' (4877mm)	Left Hand	280401-07500	280401-11700
	Right hand	280402-07500	280402-11700
17' (5182mm)	Left Hand	280401-07500	280401-12900
	Right hand	280402-07500	280402-12900
18' (5486mm)	Left Hand	280401-07500	280401-14100
	Right hand	280402-07500	280402-14100
19' (5791mm)	Left Hand	280401-14700	280401-08100
	Right hand	280402-14700	280402-08100
20' (6096mm)	Left Hand	280401-14700	280401-09300
	Right hand	280402-14700	280402-09300
21' (6401mm)	Left Hand	280401-14700	280401-10500
	Right hand	280402-14700	280402-10500
22' (6706mm)	Left Hand	280401-14700	280401-11700
	Right hand	280402-14700	280402-11700
23' (7010mm)	Left Hand	280401-14700	280401-12900
	Right hand	280402-14700	280402-12900
24' (7315mm)	Left Hand	280401-14700	280401-14100
	Right hand	280402-14700	280402-14100

Service Parts

–05 1.5" (38mm) Aluminum Side

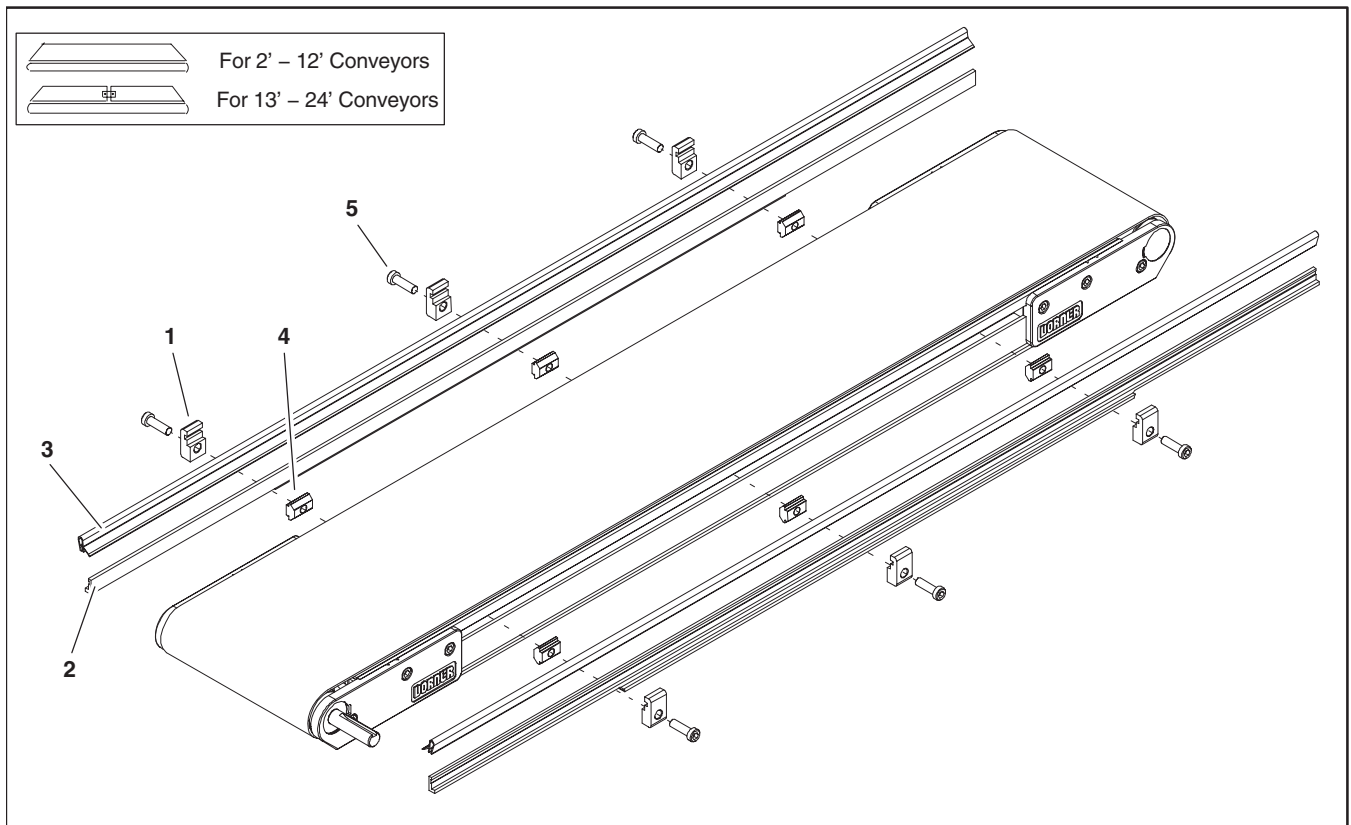


Item	Part Number	Description
1	200121	Guide Retaining Clip
2	See Chart on Next Page	2200 Guide 1.5" (38mm) HS
3	639971M	Single Drop-in Tee Bar
4	920694M	Socket Head Screw M6 x 20mm

Item 2: 2200 Guide 1.5" (38mm) HS			
Length		End Guide	End Guide
2' (610mm)	Left Hand	280503-02400	N/A
	Right hand	280503-02400	N/A
3' (914mm)	Left Hand	280503-03600	N/A
	Right hand	280503-03600	N/A
4' (1219mm)	Left Hand	280503-04800	N/A
	Right hand	280503-04800	N/A
5' (1524mm)	Left Hand	280503-06000	N/A
	Right hand	280503-06000	N/A
6' (1829mm)	Left Hand	280503-07200	N/A
	Right hand	280503-07200	N/A
7' (2134mm)	Left Hand	280503-08400	N/A
	Right hand	280503-08400	N/A
8' (2438mm)	Left Hand	280503-09600	N/A
	Right hand	280503-09600	N/A
9' (2743mm)	Left Hand	280503-10800	N/A
	Right hand	280503-10800	N/A
10' (3048mm)	Left Hand	280503-12000	N/A
	Right hand	280503-12000	N/A
11' (3353mm)	Left Hand	280503-13200	N/A
	Right hand	280503-13200	N/A

Item 2: 2200 Guide 1.5" (38mm) HS			
Length		End Guide	End Guide
12' (3658mm)	Left Hand	280503-14400	N/A
	Right hand	280503-14400	N/A
13' (3962mm)	Left Hand	280501-07500	280501-08100
	Right hand	280502-07500	280502-08100
14' (4267mm)	Left Hand	280501-07500	280501-09300
	Right hand	280502-07500	280502-09300
15' (4572mm)	Left Hand	280501-07500	280501-10500
	Right hand	280502-07500	280502-10500
16' (4877mm)	Left Hand	280501-07500	280501-11700
	Right hand	280502-07500	280502-11700
17' (5182mm)	Left Hand	280501-07500	280501-12900
	Right hand	280502-07500	280502-12900
18' (5486mm)	Left Hand	280501-07500	280501-14100
	Right hand	280502-07500	280502-14100
19' (5791mm)	Left Hand	280501-14700	280501-08100
	Right hand	280502-14700	280502-08100
20' (6096mm)	Left Hand	280501-14700	280501-09300
	Right hand	280502-14700	280502-09300
21' (6401mm)	Left Hand	280501-14700	280501-10500
	Right hand	280502-14700	280502-10500
22' (6706mm)	Left Hand	280501-14700	280501-11700
	Right hand	280502-14700	280502-11700
23' (7010mm)	Left Hand	280501-14700	280501-12900
	Right hand	280501-14700	280502-12900
24' (7315mm)	Left Hand	280501-14700	280501-14100
	Right hand	280502-14700	280502-14100

-07 Low to Side Wiper



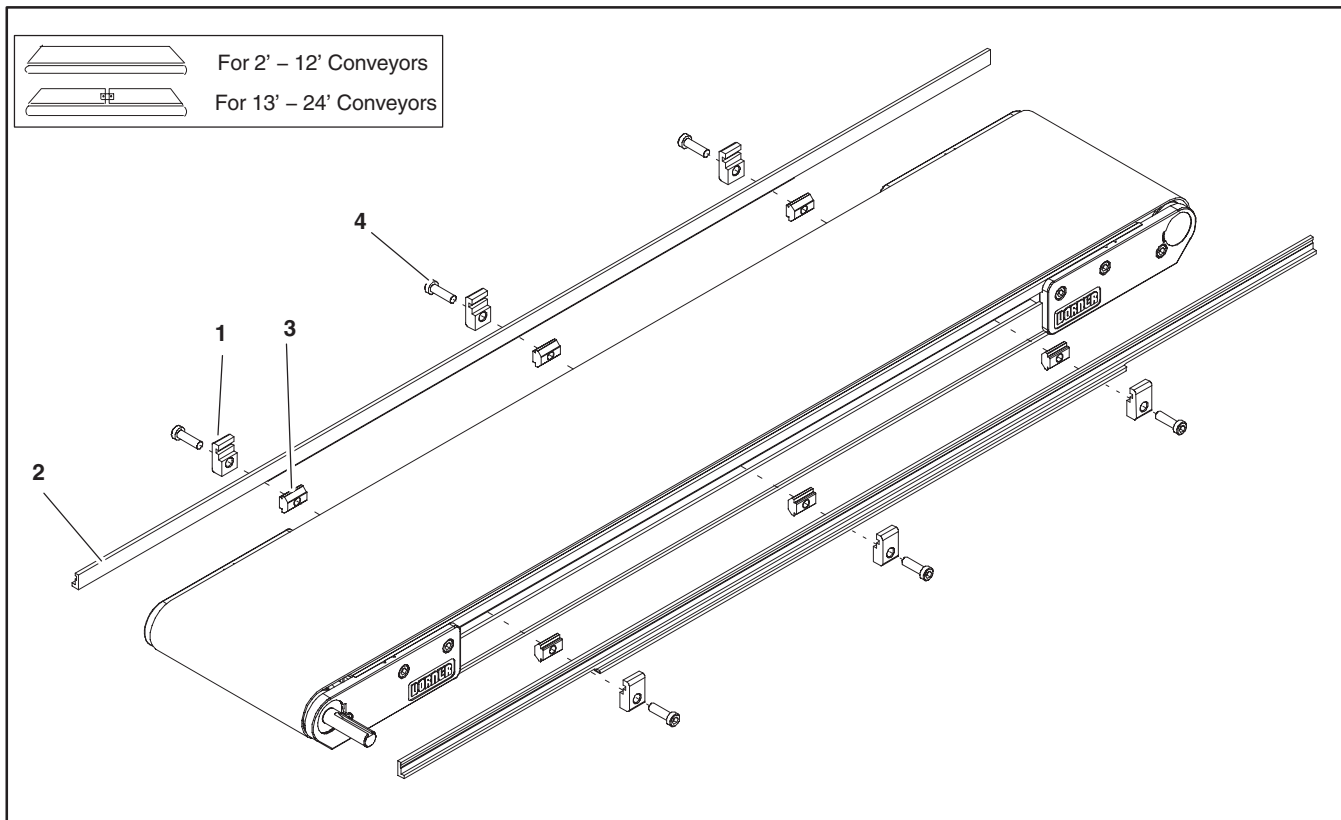
Item	Part Number	Description
1	200121	Guide Retaining Clip
2	See Chart on Next Page	2200 Guide .5" (13mm) HS
3	41-00-24	Side Wiper Nylatron (per foot)
4	639971M	Single Drop-in Tee Bar
5	920694M	Socket Head Screw M6 x 20mm

Item 2: 2200 Guide 1.5" (38mm) HS			
Length		End Guide	End Guide
2' (610mm)	Left Hand	280903-02400	N/A
	Right hand	280903-02400	N/A
3' (914mm)	Left Hand	280903-03600	N/A
	Right hand	280903-03600	N/A
4' (1219mm)	Left Hand	280903-04800	N/A
	Right hand	280903-04800	N/A
5' (1524mm)	Left Hand	280903-06000	N/A
	Right hand	280903-06000	N/A
6' (1829mm)	Left Hand	280903-07200	N/A
	Right hand	280903-07200	N/A
7' (2134mm)	Left Hand	280903-08400	N/A
	Right hand	280903-08400	N/A
8' (2438mm)	Left Hand	280903-09600	N/A
	Right hand	280903-09600	N/A
9' (2743mm)	Left Hand	280903-10800	N/A
	Right hand	280903-10800	N/A
10' (3048mm)	Left Hand	280903-12000	N/A
	Right hand	280903-12000	N/A
11' (3353mm)	Left Hand	280903-13200	N/A
	Right hand	280903-13200	N/A

Item 2: 2200 Guide 1.5" (38mm) HS			
Length		End Guide	End Guide
12' (3658mm)	Left Hand	280903-14400	N/A
	Right hand	280903-14400	N/A
13' (3962mm)	Left Hand	280901-07500	280901-08100
	Right hand	280902-07500	280902-08100
14' (4267mm)	Left Hand	280901-07500	280901-09300
	Right hand	280902-07500	280902-09300
15' (4572mm)	Left Hand	280901-07500	280901-10500
	Right hand	280902-07500	280902-10500
16' (4877mm)	Left Hand	280901-07500	280901-11700
	Right hand	280902-07500	280902-11700
17' (5182mm)	Left Hand	280901-07500	280901-12900
	Right hand	280902-07500	280902-12900
18' (5486mm)	Left Hand	280901-07500	280901-14100
	Right hand	280902-07500	280902-14100
19' (5791mm)	Left Hand	280901-14700	280901-08100
	Right hand	280902-14700	280902-08100
20' (6096mm)	Left Hand	280901-14700	280901-09300
	Right hand	280902-14700	280902-09300
21' (6401mm)	Left Hand	280901-14700	280901-10500
	Right hand	280902-14700	280902-10500
22' (6706mm)	Left Hand	280901-14700	280901-11700
	Right hand	280902-14700	280902-11700
23' (7010mm)	Left Hand	280901-14700	280901-12900
	Right hand	280902-14700	280902-12900
24' (7315mm)	Left Hand	280901-14700	280901-14100
	Right hand	280902-14700	280902-14100

Service Parts

–09 Low to High Side

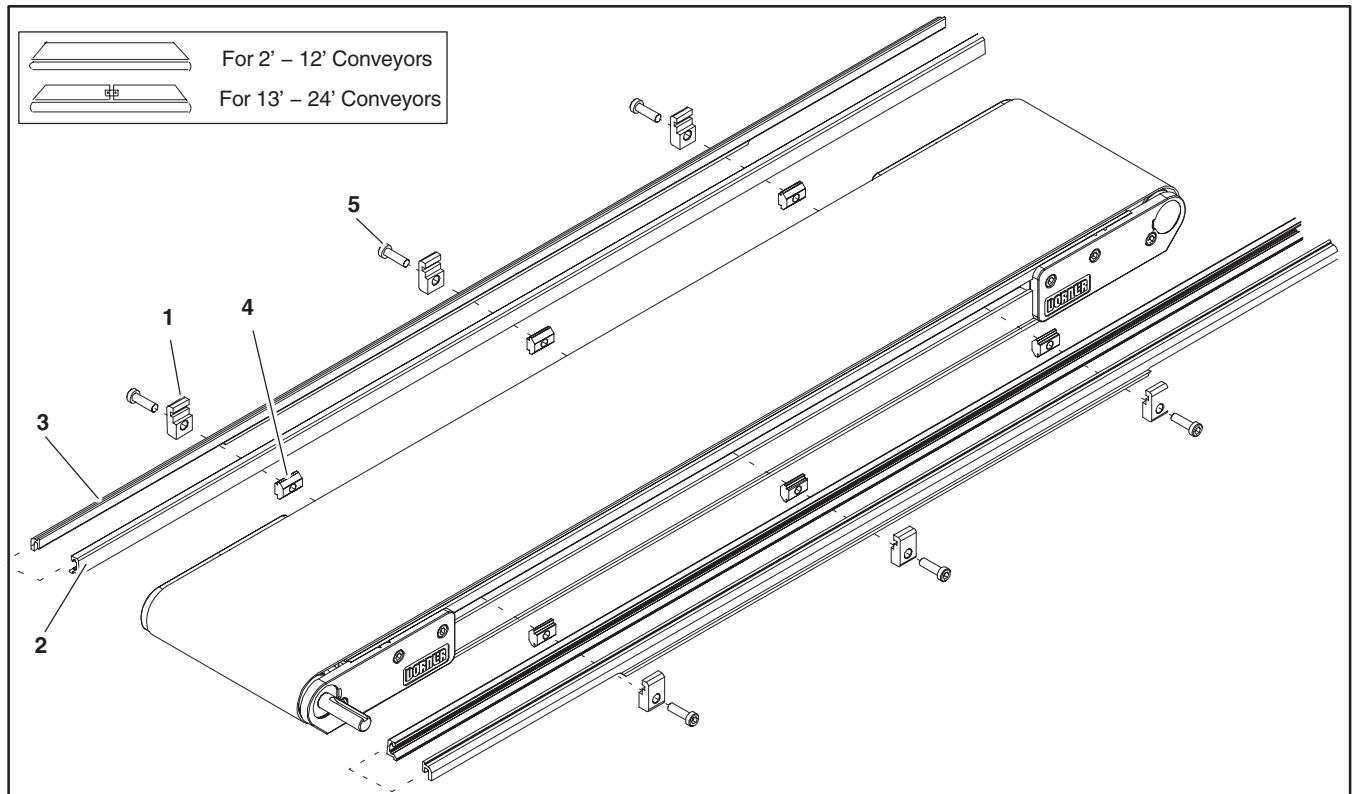


Item	Part Number	Description
1	200121	Guide Retaining Clip
2	See Chart on Next Page	2200 Guide .5" (13mm) HS
3	639971M	Single Drop-in Tee Bar
4	920694M	Socket Head Screw M6 x 20mm

Item 2: 2200 Guide 1.5" (38mm) HS			
Length		End Guide	End Guide
2' (610mm)	Left Hand	280903-02400	N/A
	Right hand	280903-02400	N/A
3' (914mm)	Left Hand	280903-03600	N/A
	Right hand	280903-03600	N/A
4' (1219mm)	Left Hand	280903-04800	N/A
	Right hand	280903-04800	N/A
5' (1524mm)	Left Hand	280903-06000	N/A
	Right hand	280903-06000	N/A
6' (1829mm)	Left Hand	280903-07200	N/A
	Right hand	280903-07200	N/A
7' (2134mm)	Left Hand	280903-08400	N/A
	Right hand	280903-08400	N/A
8' (2438mm)	Left Hand	280903-09600	N/A
	Right hand	280903-09600	N/A
9' (2743mm)	Left Hand	280903-10800	N/A
	Right hand	280903-10800	N/A
10' (3048mm)	Left Hand	280903-12000	N/A
	Right hand	280903-12000	N/A
11' (3353mm)	Left Hand	280903-13200	N/A
	Right hand	280903-13200	N/A

Item 2: 2200 Guide 1.5" (38mm) HS			
Length		End Guide	End Guide
12' (3658mm)	Left Hand	280903-14400	N/A
	Right hand	280903-14400	N/A
13' (3962mm)	Left Hand	280901-07500	280901-08100
	Right hand	280902-07500	280902-08100
14' (4267mm)	Left Hand	280901-07500	280901-09300
	Right hand	280902-07500	280902-09300
15' (4572mm)	Left Hand	280901-07500	280901-10500
	Right hand	280902-07500	280902-10500
16' (4877mm)	Left Hand	280901-07500	280901-11700
	Right hand	280902-07500	280902-11700
17' (5182mm)	Left Hand	280901-07500	280901-12900
	Right hand	280902-07500	280902-12900
18' (5486mm)	Left Hand	280901-07500	280901-14100
	Right hand	280902-07500	280902-14100
19' (5791mm)	Left Hand	280901-14700	280901-08100
	Right hand	280902-14700	280902-08100
20' (6096mm)	Left Hand	280901-14700	280901-09300
	Right hand	280902-14700	280902-09300
21' (6401mm)	Left Hand	280901-14700	280901-10500
	Right hand	280902-14700	280902-10500
22' (6706mm)	Left Hand	280901-14700	280901-11700
	Right hand	280902-14700	280902-11700
23' (7010mm)	Left Hand	280901-14700	280901-12900
	Right hand	280902-14700	280902-12900
24' (7315mm)	Left Hand	280901-14700	280901-14100
	Right hand	280902-14700	280902-14100

-10 .5" (13mm) Extruded Plastic



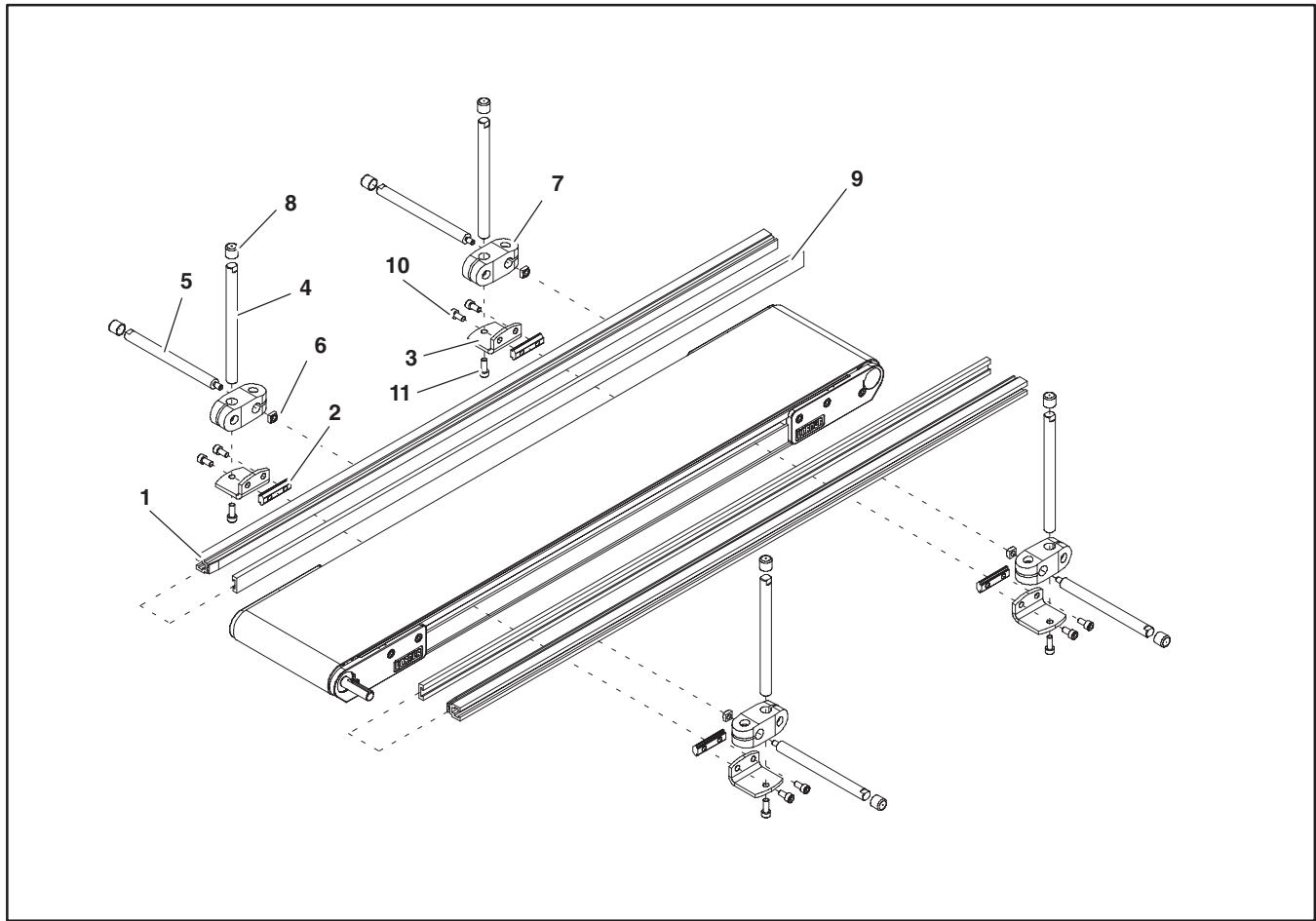
Item	Part Number	Description
1	200121	Guide Retaining Clip
2	200054P	Snap-On Guide (per foot)
3	See Chart on Next Page	2200 Guide
4	639971M	Single Drop-in Tee Bar
5	920694M	Socket Head Screw M6 x 20mm

Item 2: 2200 Guide 1.5" (38mm) HS			
Length		End Guide	End Guide
2' (610mm)	Left Hand	281003-02400	N/A
	Right hand	281003-02400	N/A
3' (914mm)	Left Hand	281003-03600	N/A
	Right hand	281003-03600	N/A
4' (1219mm)	Left Hand	281003-04800	N/A
	Right hand	281003-04800	N/A
5' (1524mm)	Left Hand	281003-06000	N/A
	Right hand	281003-06000	N/A
6' (1829mm)	Left Hand	281003-07200	N/A
	Right hand	281003-07200	N/A
7' (2134mm)	Left Hand	281003-08400	N/A
	Right hand	281003-08400	N/A
8' (2438mm)	Left Hand	281003-09600	N/A
	Right hand	281003-09600	N/A
9' (2743mm)	Left Hand	281003-10800	N/A
	Right hand	281003-10800	N/A
10' (3048mm)	Left Hand	281003-12000	N/A
	Right hand	281003-12000	N/A
11' (3353mm)	Left Hand	281003-13200	N/A
	Right hand	281003-13200	N/A

Item 2: 2200 Guide 1.5" (38mm) HS			
Length		End Guide	End Guide
12' (3658mm)	Left Hand	281003-14400	N/A
	Right hand	281003-14400	N/A
13' (3962mm)	Left Hand	281001-07500	280901-08100
	Right hand	281002-07500	280902-08100
14' (4267mm)	Left Hand	281001-07500	280901-09300
	Right hand	281002-07500	280902-09300
15' (4572mm)	Left Hand	281001-07500	280901-10500
	Right hand	281002-07500	280902-10500
16' (4877mm)	Left Hand	281001-07500	280901-11700
	Right hand	281002-07500	280902-11700
17' (5182mm)	Left Hand	281001-07500	280901-12900
	Right hand	281002-07500	280902-12900
18' (5486mm)	Left Hand	281001-07500	280901-14100
	Right hand	281002-07500	280902-14100
19' (5791mm)	Left Hand	281001-14700	280901-08100
	Right hand	281002-14700	280902-08100
20' (6096mm)	Left Hand	281001-14700	280901-09300
	Right hand	281002-14700	280902-09300
21' (6401mm)	Left Hand	281001-14700	280901-10500
	Right hand	281002-14700	280902-10500
22' (6706mm)	Left Hand	281001-14700	280901-11700
	Right hand	281002-14700	280902-11700
23' (7010mm)	Left Hand	281001-14700	280901-12900
	Right hand	281002-14700	280902-12900
24' (7315mm)	Left Hand	281001-14700	280901-14100
	Right hand	281002-14700	280902-14100

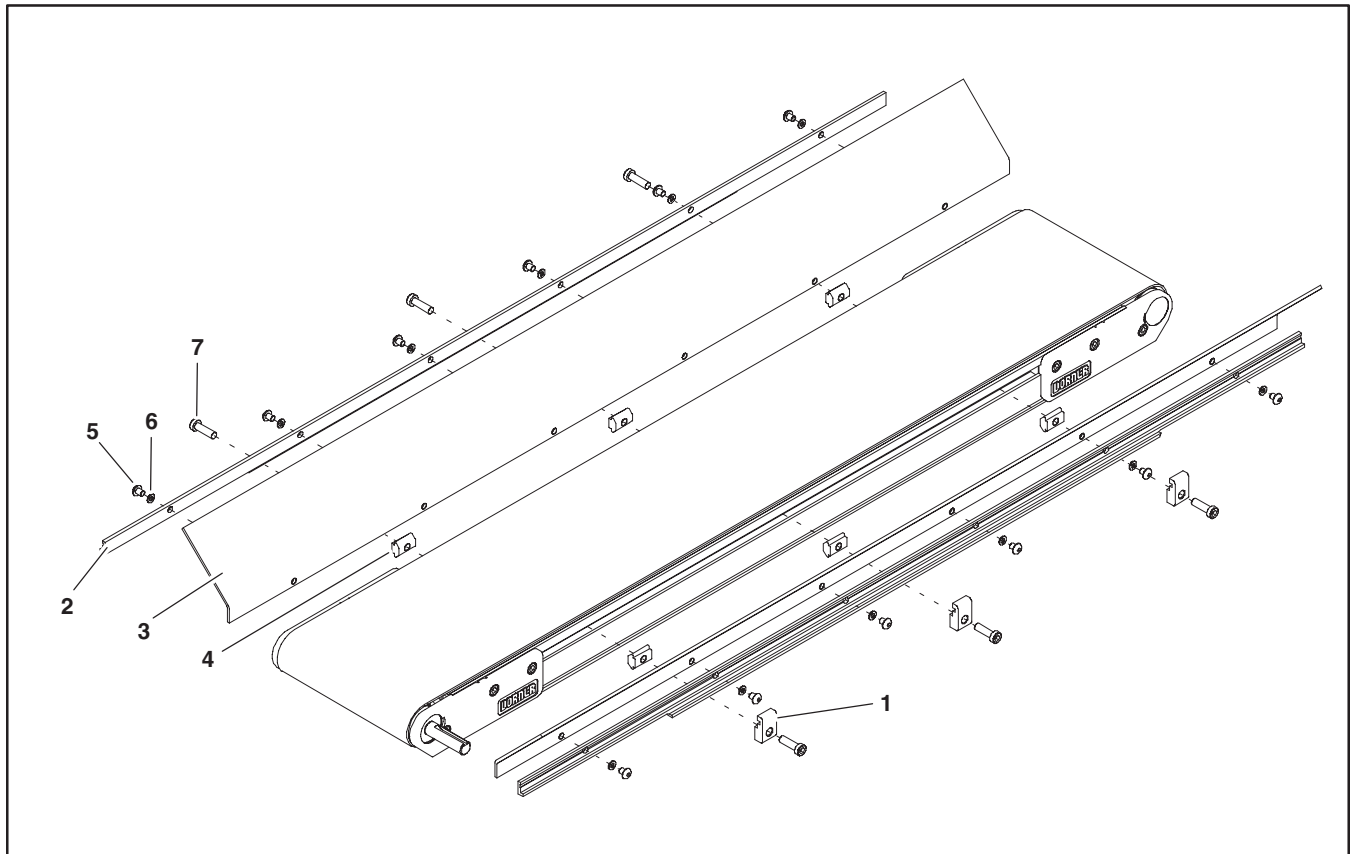
Service Parts

–13 Adjustable Guiding



Item	Part Number	Description
1	202983	Aluminum Profile Guide 2' (610mm)
	202984	Aluminum Profile Guide 3' (914mm)
	202985	Aluminum Profile Guide 4' (1219mm)
	202986	Aluminum Profile Guide 5' (1524mm)
	202987	Aluminum Profile Guide 6' (1829mm)
	202988	Aluminum Profile Guide 7' (2134mm)
	202989	Aluminum Profile Guide 8' (2438mm)
	202990	Aluminum Profile Guide 9' (2743mm)
	202991	Aluminum Profile Guide 10' (3048mm)
	202992	Aluminum Profile Guide 11' (3353mm)
	202993	Aluminum Profile Guide 12' (3658mm)
	202994	Aluminum Profile Guide 13' (3962mm)
2	200830M	Drop-In Tee Bar
3	202004	Mounting Bracket
4	202027M	Guide Mounting Shaft Vertical
5	202028M	Guide Mounting Shaft Horizontal
6	674175MP	Square Nut
7	807-652	Cross Block
8	807-948	Vinyl Shaft Cap
9	614068P	Flat Extruded Guide (per foot)
10	920612M	Socket Head Screw M6 x 12mm
11	920616M	Socket Head Screw M6 x 16mm

Flared Side Guiding

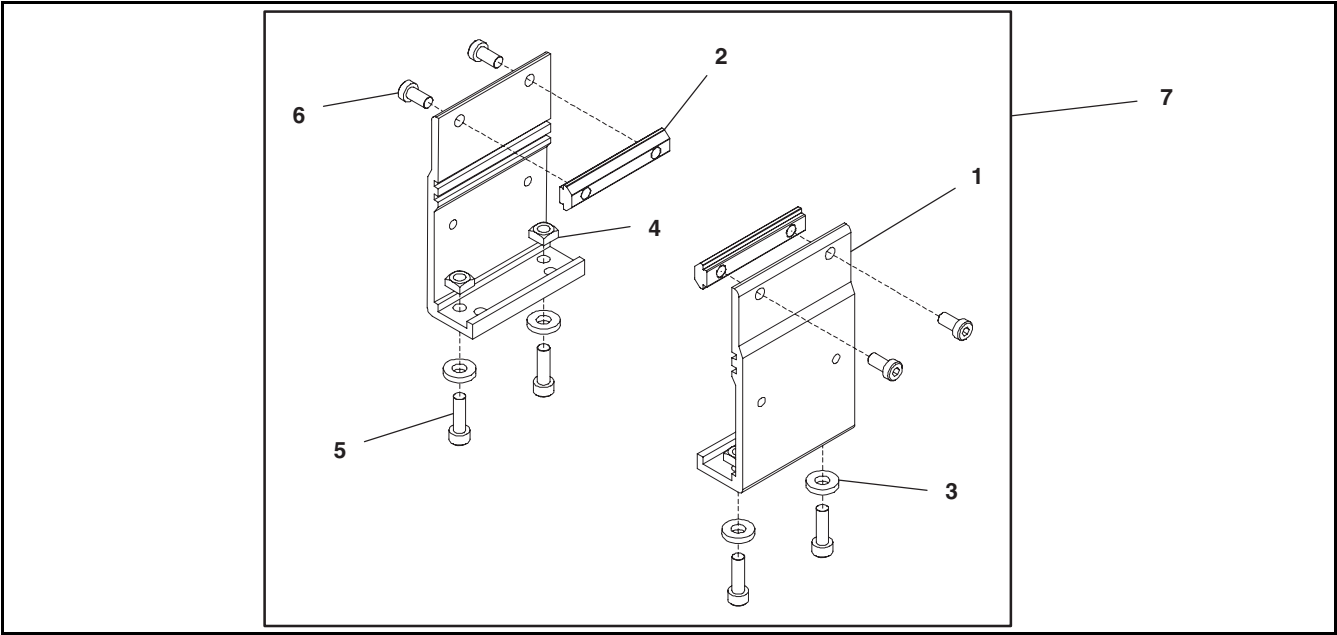


Item	Part Number	Description
1	200121	Guide Retaining Clip
2	202212	Side-Flare Mounting Guide 2' (610mm)
	202213	Side-Flare Mounting Guide 3' (914mm)
	202214	Side-Flare Mounting Guide 4' (1219mm)
	202215	Side-Flare Mounting Guide 5' (1524mm)
	202216	Side-Flare Mounting Guide 6' (1829mm)

Item	Part Number	Description
3	202522M	Flared Guide 45° 2' (610mm)
	202523M	Flared Guide 45° 3' (914mm)
	202523M	Flared Guide 45° 4' (1219mm)
	202523M	Flared Guide 45° 5' (1524mm)
	202523M	Flared Guide 45° 6' (1829mm)
4	639971	Drop-In Tee Bar Button
5	910506M	Head Screw M5 x 6mm
6	911-512	Washer
7	920694M	Cap Low-Head Screw M6 x 20mm

Service Parts

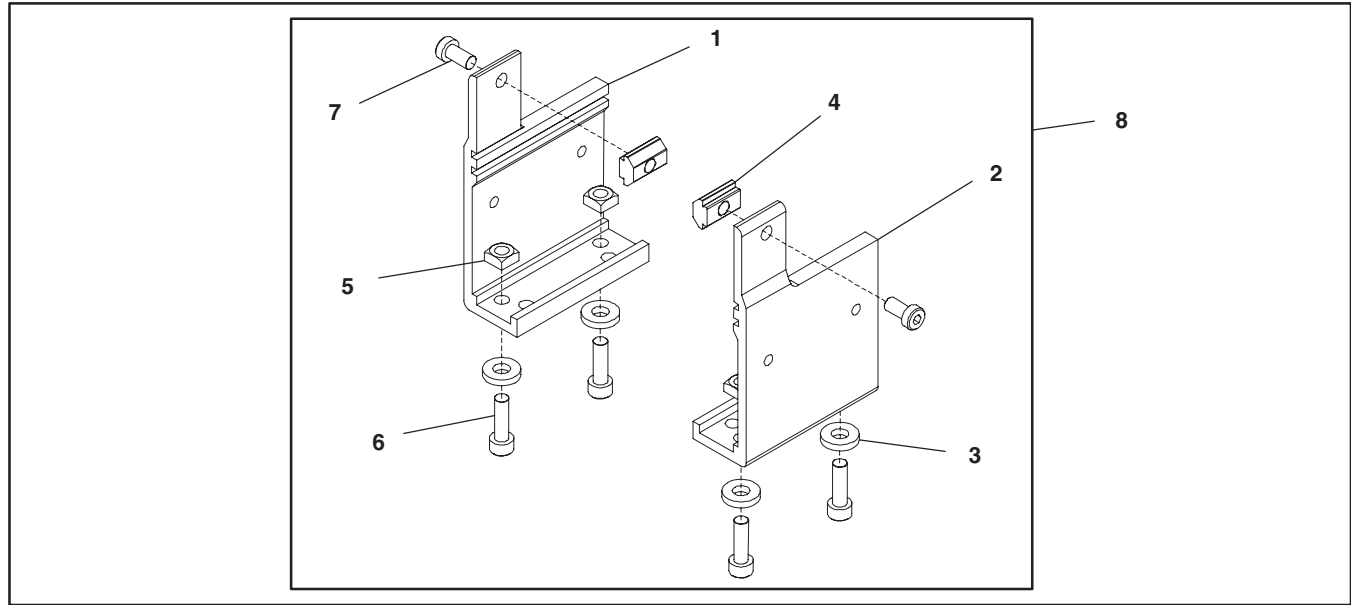
Flat Belt Stand Mount Assembly



Item	Part Number	Description
1	240831	Stand Mount
2	300150M	Drop-In Tee Bar
3	605279P	Washer
4	807-920	Square Nut M6

Item	Part Number	Description
5	920620M	Socket Head Screw M6 x 20mm
6	920692M	Socket Low Head Screw M6x12mm
7	240839	Flat Belt Stand Mount Assembly

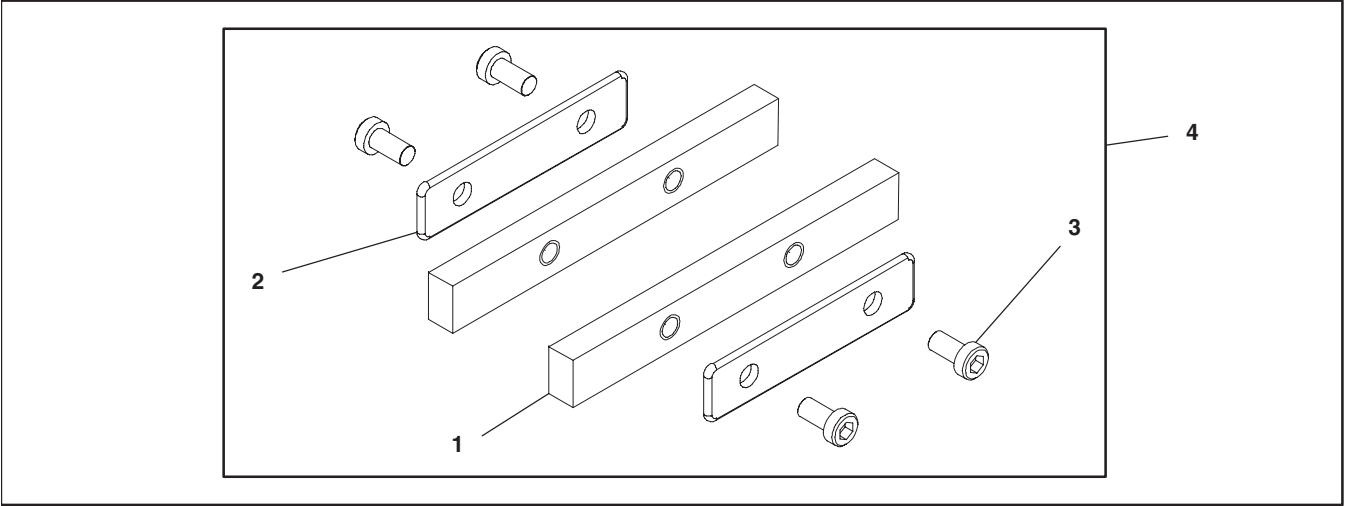
Flat Belt Stand Mount Assembly for 2' (610mm) Conveyors



Item	Part Number	Description
1	240833	Stand Mount, LH 2' (610mm)
2	240834	Stand Mount, RH 2' (610mm)
3	605279P	Washer
4	639971M	Drop-In Tee Bar

Item	Part Number	Description
5	807-920	Square Nut M6
6	920620M	Socket Head Screw M6 x 20mm
7	920692M	Socket Low Head Screw M6x12mm
8	240847	Flat Belt Stand Mount Assembly for 2' (610mm) Conveyors

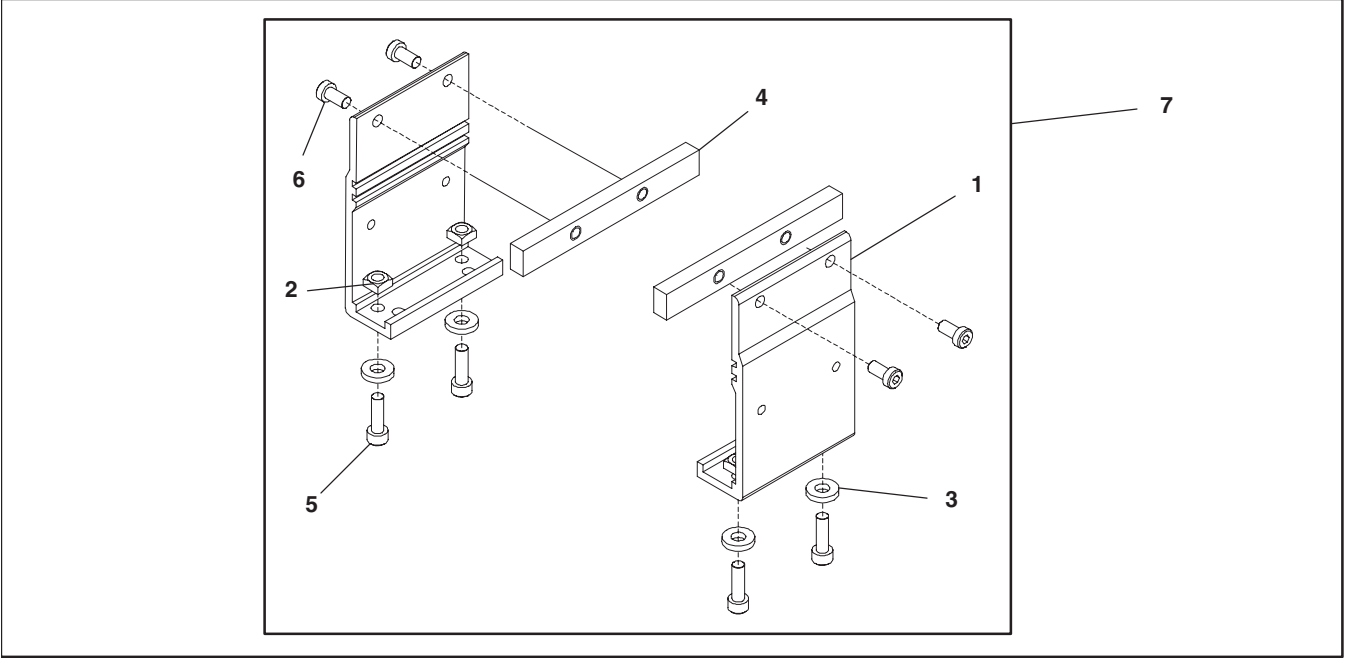
Connecting Assembly without Stand Mount



Item	Part Number	Description
1	240858	Frame Connector Bar
2	240859	Frame Connector Plate

Item	Part Number	Description
3	920692M	Socket Low Head Screw M6x12mm
4	240861	Connecting Assembly without Stand Mounts

Flat Belt Connecting Assembly with Stand Mount

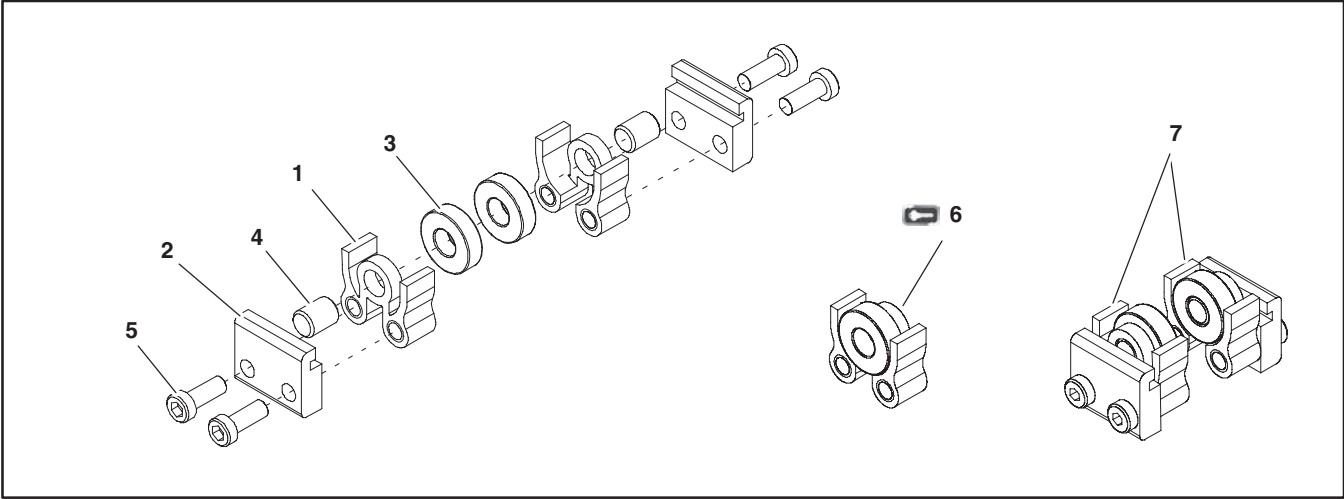


Item	Part Number	Description
1	240831	Stand Mount
2	807-920	Square Nut M6 5mm x 10mm
3	605279P	Washer
4	240858	Frame Connector Bar

Item	Part Number	Description
5	920620M	Socket Head Screw M6 x 20mm
6	920693M	Socket Low Head Screw M6 x 16mm
7	240860	Flat Belt Connecting Assembly with Stand Mounts

Service Parts

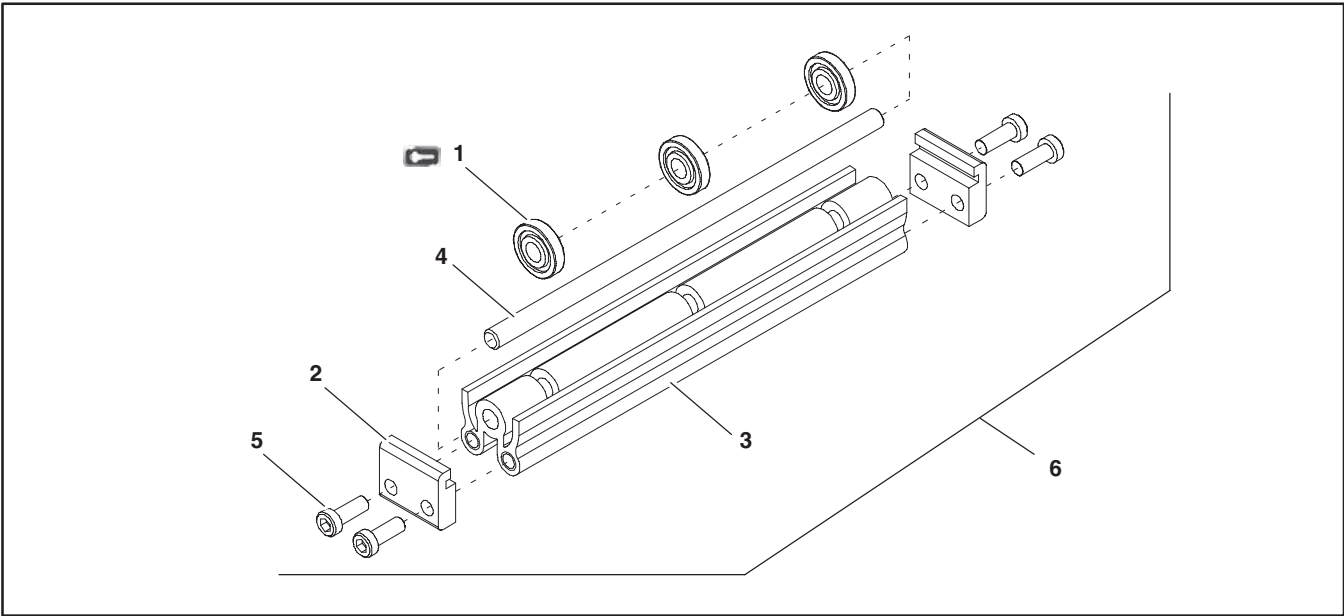
2” (51mm) to 6” (152mm) Flat Belt Return Roller



Item	Part Number	Description
1	240825	Return Roller Guard – Short
2	240827	Return Roller Clip
3	802-027	Bearing
4	913-100	Dowel Pin

Item	Part Number	Description
5	920693M	Socket Low Head Screw M6 x 16mm
6	240840	Roller Assembly (Includes Items 1, 3 and 4)
7	240830	2” (51mm) to 6” (152mm) Flat Belt Return Roller Assy

8” (203mm) to 24” (610mm) Flat Belt Return Roller



Item	Part Number	Description
1	240826	Return Roller
2	240827	Return Roller Clip
3	2409WW	Return Roller Guard
4	2410WW	Return Roller Rod

Item	Part Number	Description
5	920693M	Socket Low Head Screw M6 x 16mm
6	2408WW	8” (203mm) to 24” (610mm) Flat Belt Return Roller Assembly
WW= Conveyor width ref.: 02, 03, 04, 05, 06, 08, 10, 12, 18, 21, 24		

Conveyor Belt Part Number Configuration

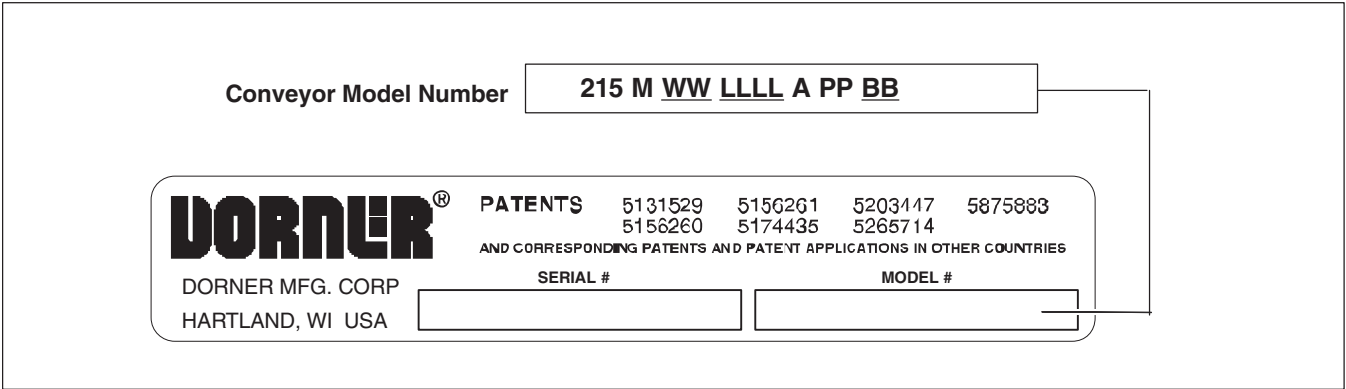


Figure 55

Refer to Dorner patent plate (Figure 55). From the model number, determine conveyor width (“WW”), length (“LLLL”) and belt type (“BB”). Use data to configure belt part number as indicated below. *Add “V” for V-guided belts.

25 - WW LLLL / BB V*

25 - _____ / _____ V*
(Fill In)

Return Policy

Returns must have prior written factory authorization or they will not be accepted. Items that are returned to Dorner without authorization will not be credited nor returned to the original sender. When calling for authorization, please have the following information ready for the Dorner factory representative or your local distributor:

1. Name and address of customer.
2. Dorner part number(s) of item(s) being returned.
3. Reason for return.
4. Customer's original order number used when ordering the item(s).
5. Dorner or distributor invoice number.

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization number for reference.

There will be a return charge on all new undamaged items returned for credit where Dorner was not at fault. Dorner is not responsible for return freight on such items.

Conveyors and conveyor accessories		
Standard catalog conveyors		30%
MPB Series, cleated and specialty belt conveyors		50%
7400 & 7600 Series conveyors	non-returnable items	
Engineered special products	case by case	
Drives and accessories		30%
Sanitary stand supports	non-returnable items	

Parts		
Standard stock parts		30%
MPB, cleated and specialty belts	non-returnable items	

Returns will not be accepted after 60 days from original invoice date.

The return charge covers inspection, cleaning, disassembly, disposal and reissuing of components to inventory.

If a replacement is needed prior to evaluation of returned item, a purchase order must be issued. Credit (if any) is issued only after return and evaluation is complete.

Dorner has representatives throughout the world. Contact Dorner for the name of your local representative. Our Technical Sales, Catalog Sales and Service Teams will gladly help with your questions on Dorner products.

For a copy of Dorner's Warranty, contact factory, distributor, service center or visit our website at www.dorner.com.

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



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