

2200 Series Center Drive Conveyors



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Warnings – General Safety

	WARNING	
<p>The safety alert symbol, black triangle with white exclamation, is used to alert you to potential personal injury hazards.</p>		

	 WARNING
<p>Gearmotors may be HOT. DO NOT TOUCH Gearmotors.</p>	

	 DANGER
<p>Climbing, sitting, walking or riding on conveyor will cause severe injury. KEEP OFF CONVEYORS.</p>	

	 WARNING
<p>Dorner cannot control the physical installation and application of conveyors. Taking protective measures is the responsibility of the user.</p> <p>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.</p>	

	 DANGER
<p>DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.</p>	

	 WARNING
<p>Exposed moving parts can cause severe injury. LOCK OUT POWER before removing guards or performing maintenance.</p>	

	 WARNING
<p>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.</p>	

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 2200 Series conveyors are covered by Patent No. 5,174,435, 5,131,529 and corresponding patents and patent applications in other countries.

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

Product Description

Refer to Figure 1 for typical conveyor components.

Typical 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

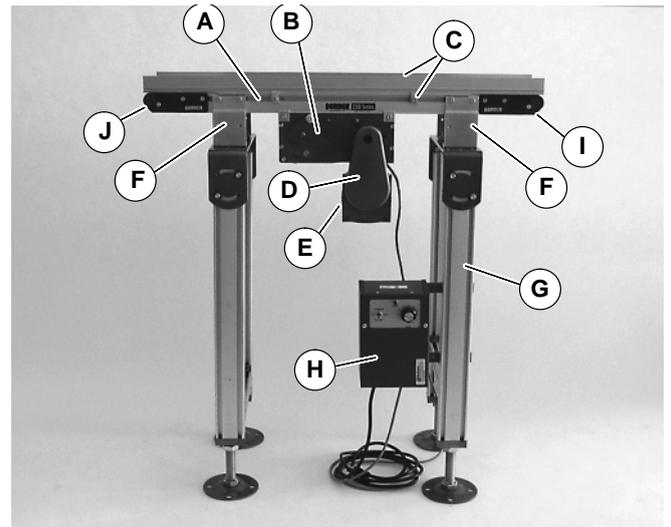
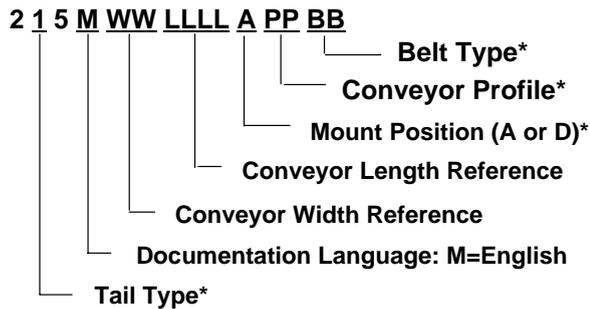


Figure 1

Specifications

Models:

2200 Series Center Drive Conveyor



* See Ordering and Specifications Catalog for details.

Conveyor Supports:

Maximum Distances:

K = 457 mm

L = 1829 mm**

** For conveyors longer than 3962 mm, install support at joint.

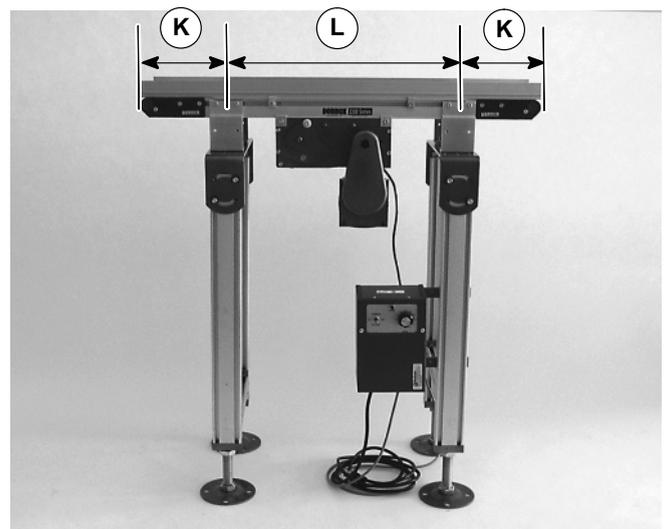


Figure 2

Specifications

Specifications:

Conveyor Width Reference (WW)	02	03	04	05	06	08	10	12	18	21	24
Conveyor Belt Width	44 mm	70 mm	95 mm	127 mm	152 mm	203 mm	254 mm	305 mm	457 mm	533 mm	610 mm
Maximum Conveyor Load* (See NOTE Below)	18 kg	23 kg	27 kg	34 kg	41 kg	47 kg	54 kg				
Conveyor Start-up Torque*	1.0 Nm	1.1 Nm	1.2 Nm	1.4 Nm	1.7 Nm	2.3 Nm	2.6 Nm	3.4 Nm	3.4 Nm	4.0 Nm	4.0 Nm
Belt Travel	107 mm per revolution of pulley										
Maximum Belt Speed*	72 meters/minute										
Belt Take-up	25 mm of stroke = 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
Conveyor Length	610 mm	914 mm	1219 mm	1524 mm	1829 mm	2134 mm	2438 mm	2743 mm	3048 mm	3353 mm	3658 mm	3962 mm	7315 mm	4267 mm	4572 mm	4877 mm	5182 mm	5486 mm	5791 mm	6096 mm	6401 mm	6706 mm	7010 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

Installation

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

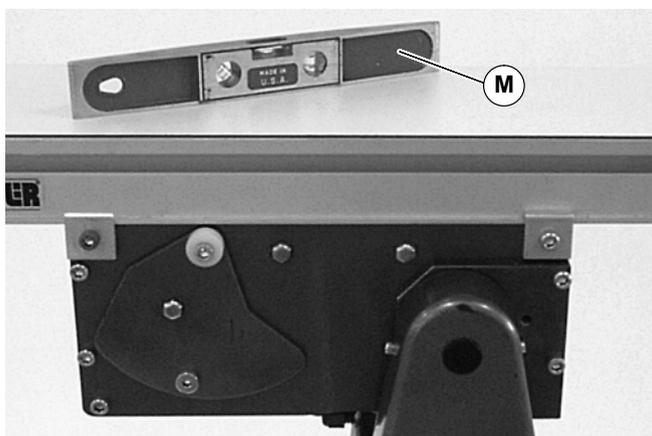


Figure 3

Installation Component List

- O Conveyor fram (two sections if longer than 305 mm)
- 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 accessory instructions)

Conveyors Up to 3962 mm

No assembly is required. Install mounting brackets and return rollers. Refer to “Mounting Brackets”, page 6 and “Return Rollers”, page 7.

Conveyors Longer Than 3962 mm

1. Locate conveyor sections (O Figure 4)

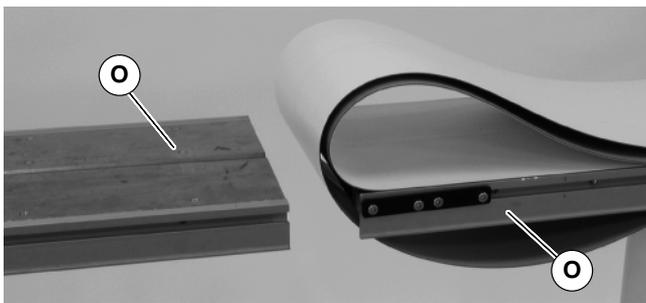


Figure 4

2. On tension end of the conveyor, identified with a  label (R of Figure 5), 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.

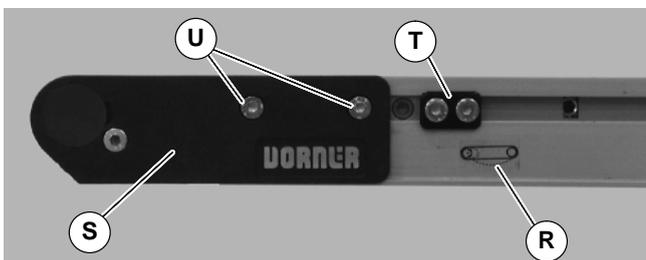


Figure 5

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

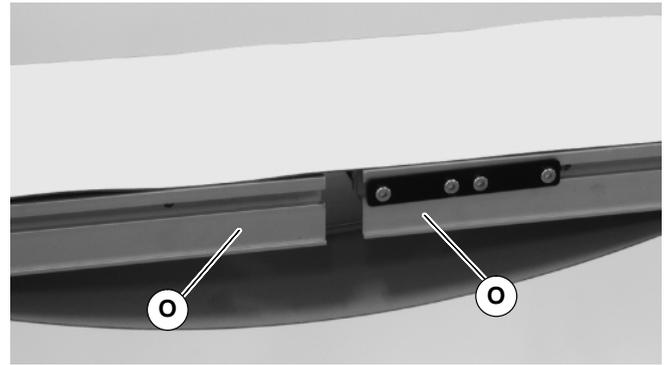


Figure 6

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

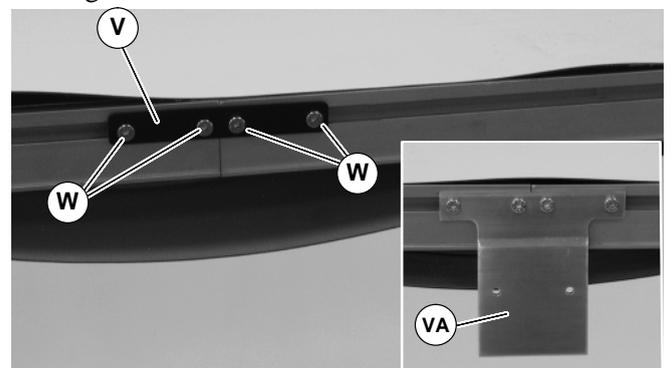


Figure 7

5. With a 5 mm hex-key wrench, rotate pinion gear (X of Figure 8) to tension the conveyor belt. Tighten fastening screws (U) on both sides of conveyor to 7 Nm. For proper tensioning, refer to “Conveyor Tension End Adjustment”, page 14.

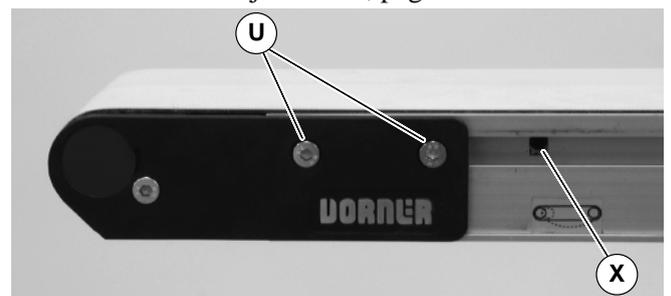


Figure 8

6. Install mounting brackets and return rollers. Refer to “Mounting Brackets”, page 6 and “Return Rollers”, page 7.
7. If equipped with cam tracking assemblies (T of Figure 5), adjust belt tracking. Refer to “Conveyor Belt Tracking”, page 16.

Installation

Mounting Brackets

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

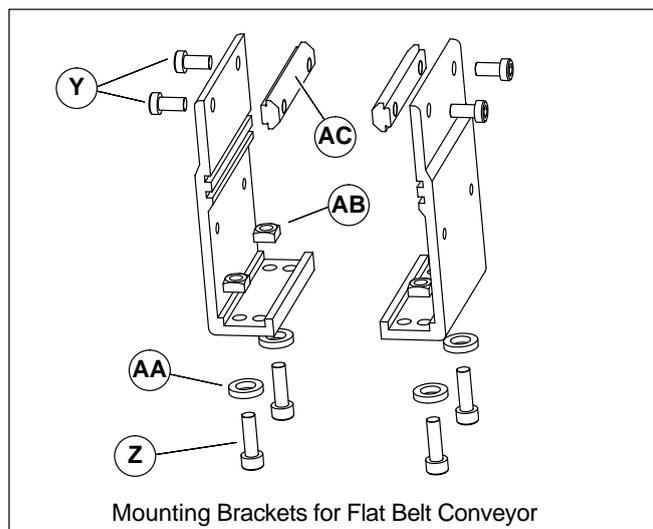


Figure 9

3. Insert T-bars (AC of Figures 9) into conveyor side slots (AD of Figure 10). Fasten brackets (P of Figure 10) to conveyor with mounting screws (Y).

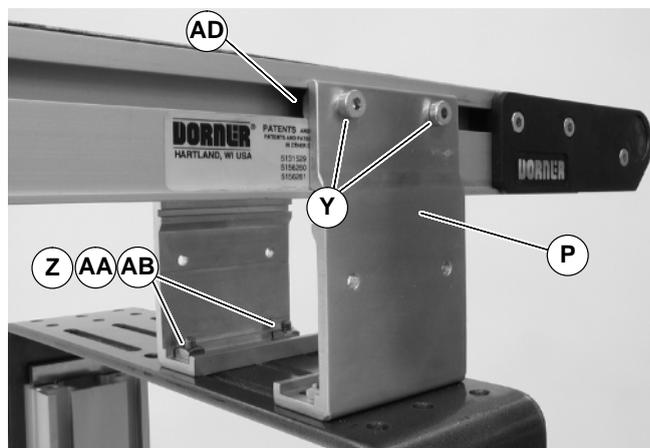


Figure 10

2. Remove screws (Y & Z of Figures 9), washers (AA), nuts (AB) and T-bars (AC) from brackets.

4. Fasten brackets to support stand with mounting screws (Z of Figure 10), washers (AA) and nuts (AB).

5. Tighten screws (Y & Z of Figure 10) to 7 Nm.

Return Rollers

51–152 mm Wide Flat Belt Conveyors

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

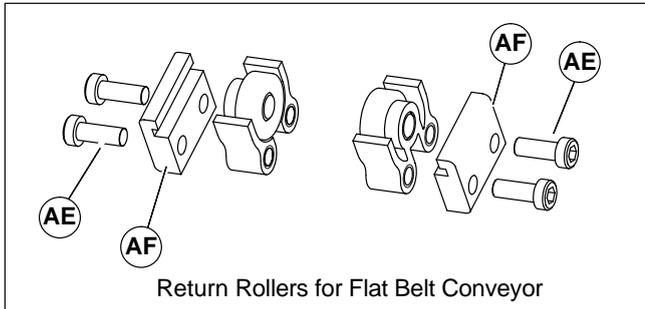
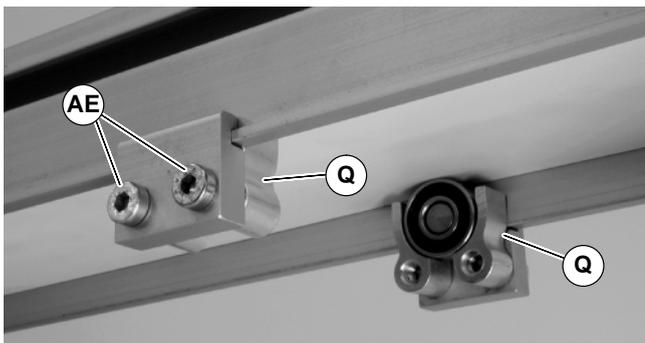


Figure 11

2. Remove screws (AE of Figures 11) and clips (AF) from roller assembly.
3. Install roller assemblies (Q of Figure 12) as shown. Tighten screws (AE) to 7 Nm.



203–610 mm Wide Flat Belt Conveyors

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

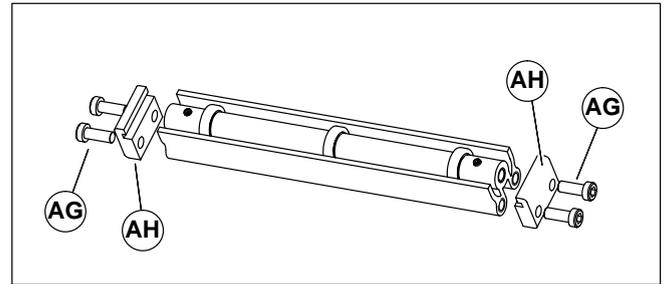


Figure 13

2. Remove screws (AG of Figure 13) and clips (AH) from roller assembly.
3. Install roller assembly as shown (Q of Figure 14). Tighten screws (AG) to 7 Nm.

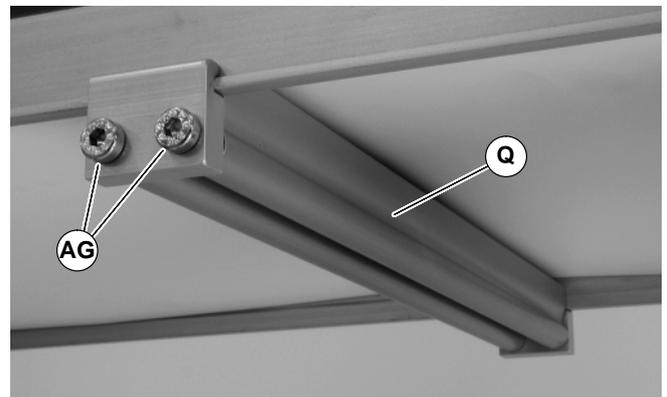


Figure 14

Preventive Maintenance and Adjustment

Required Tools

Standard Tools

- Hex key wrenches:
 - 2 mm – 2.5 mm – 3 mm
 - 4 mm – 5 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



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



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 (AI of Figure 15): Remove fastening screws (AJ) then remove wiper (AI).

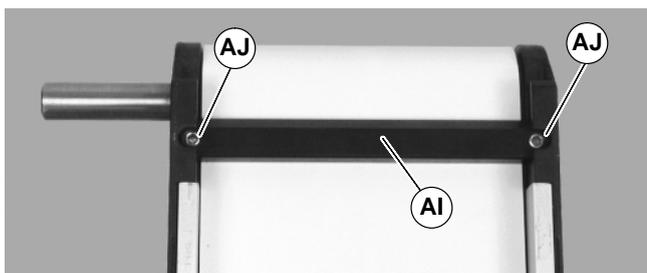


Figure 15

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

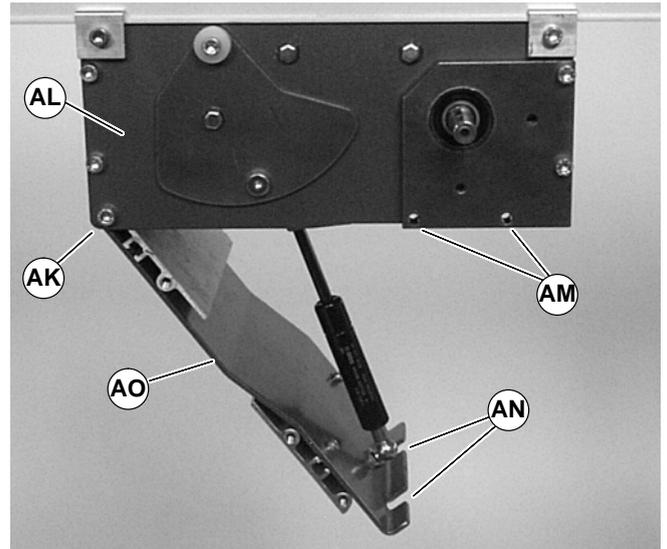


Figure 16

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 (R of Figure 17), 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.

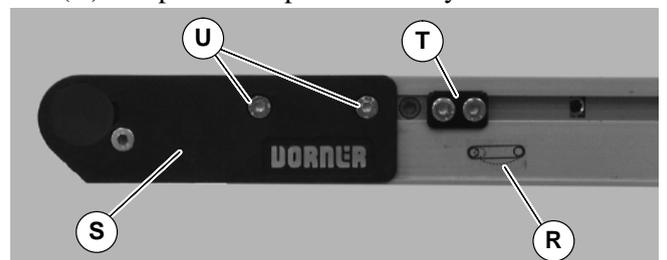


Figure 17

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

NOTE: On conveyors 1219 mm and shorter by 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 12.

8. Proceed to "Drive Module Removal", page 12 and "Belt Removal from Drive Module", page 12.

Preventive Maintenance and Adjustment

Belt Removal for Conveyor With Stands and Gearmotor Mounting Package

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

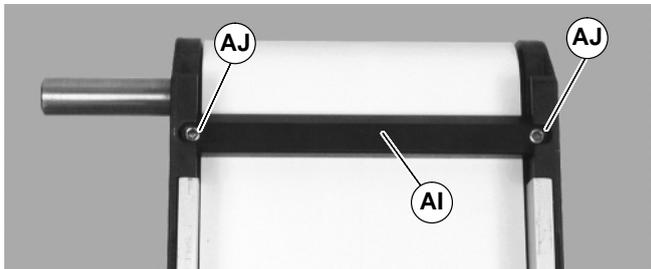


Figure 18

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 11.
4. Loosen corner screws (AK of Figure 19), on each side of the drive module (AL).

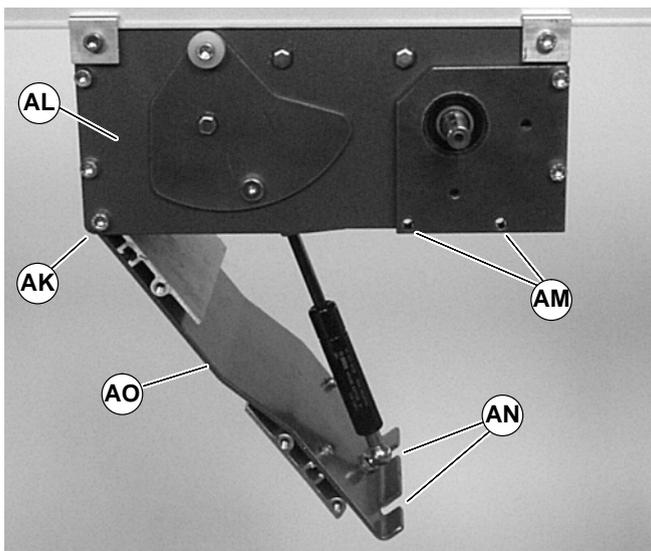


Figure 19

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 (R of Figure 20), 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.

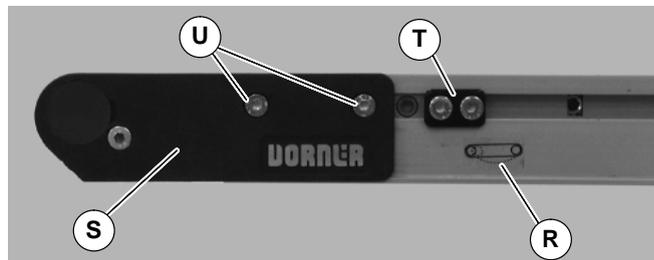


Figure 20

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

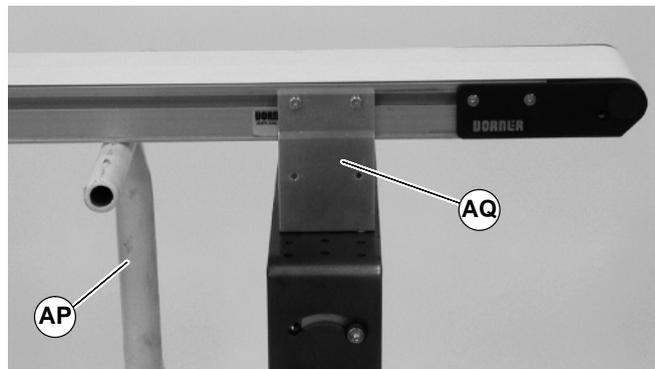


Figure 21

9. Remove mounting brackets (AQ of Figure 21) from one side of conveyor. (Reverse steps 3 & 4 of “Mounting Brackets” section, page 6.)
10. Remove conveyor belt from conveyor ends. See **NOTE**.

NOTE: On conveyors 1219 mm and shorter by 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 12.

11. Proceed to “Drive Module Removal”, page 12 and “Belt Removal from Drive Module”, page 12.

Preventive Maintenance and Adjustment

Gearmotor Mounting Package Removal

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

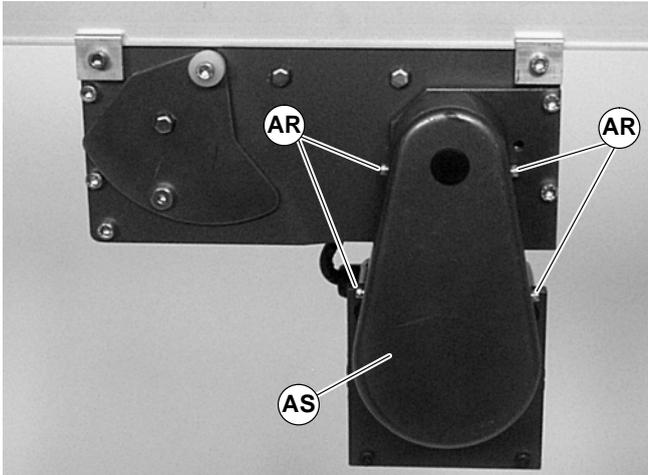


Figure 22

NOTE: Figures 22 & 23 show vertically mounted gearmotor. Horizontally mounted gearmotor is similar.

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

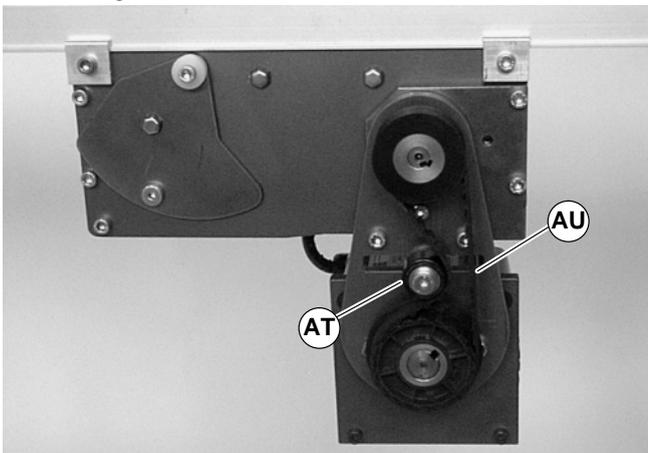


Figure 23

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

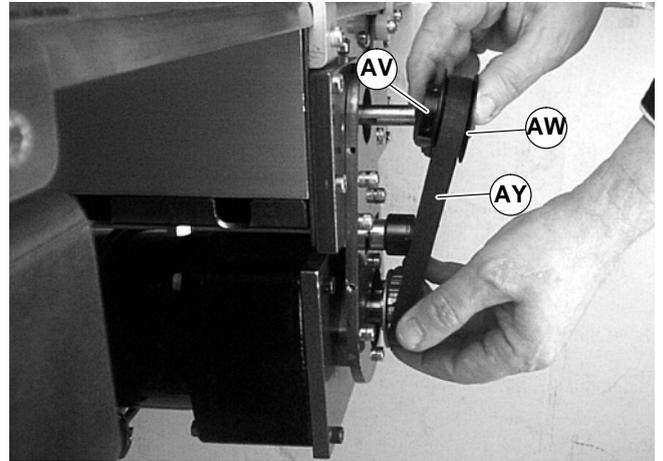


Figure 24

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

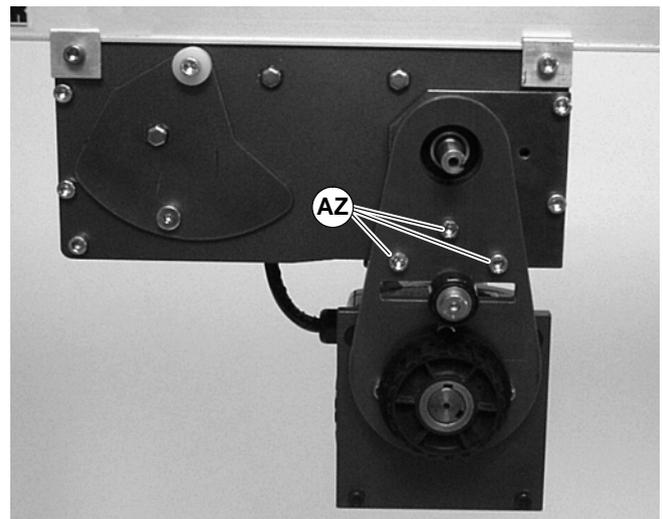


Figure 25

Preventive Maintenance and Adjustment

Drive Module Removal



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

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

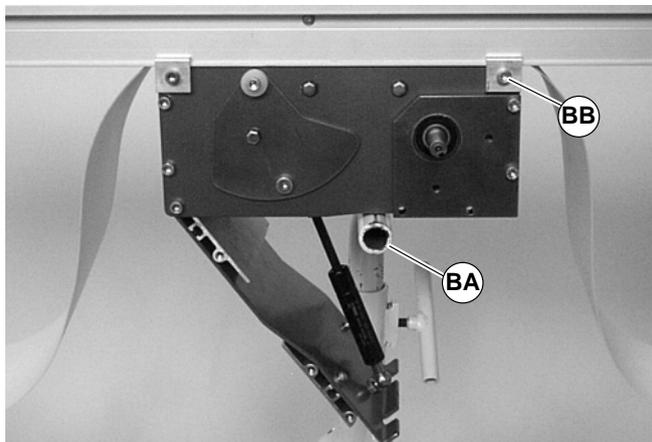


Figure 26

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

Belt Removal from Drive Module

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

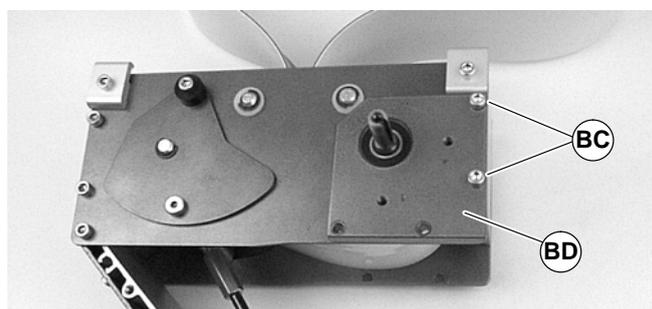


Figure 27

2. Remove drive pulley (BE of Figure 28).

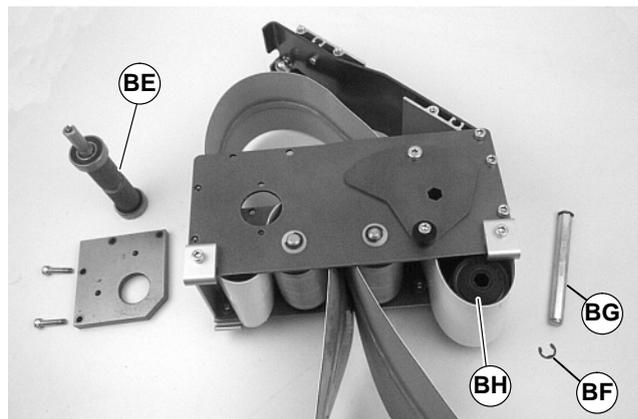


Figure 28

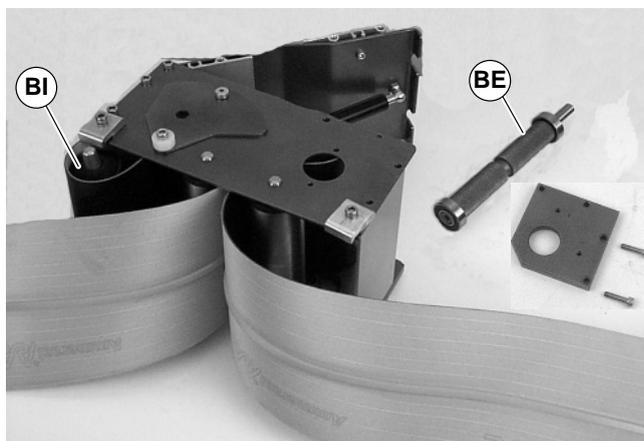


Figure 29

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

Preventive Maintenance and Adjustment

Conveyor Belt Installation

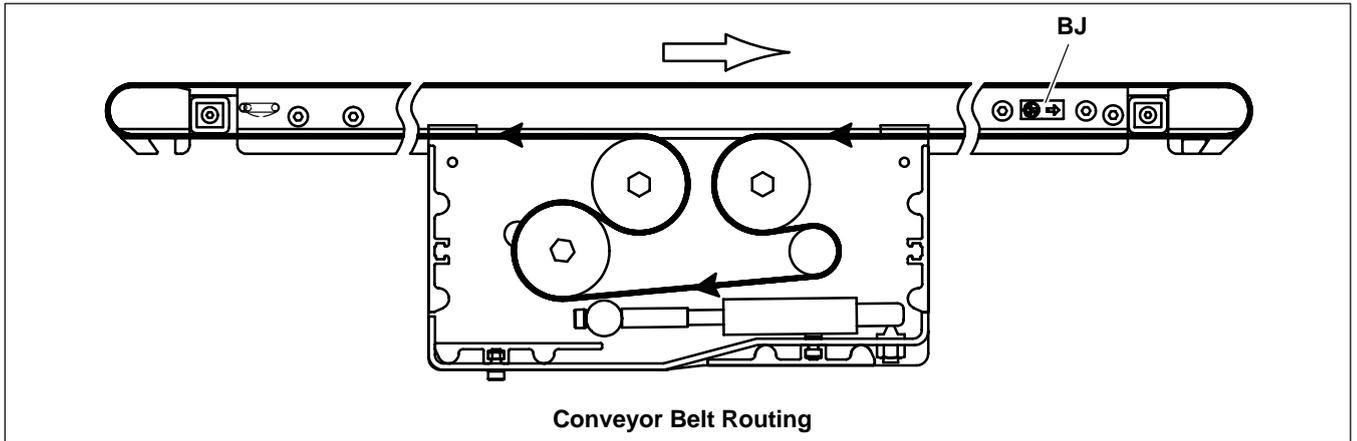


Figure 30

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



Figure 31

NOTE: It is necessary to replace the drive module at the same time the conveyor belt is replaced on conveyors 1219 mm and shorter by 203 mm and wider.

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

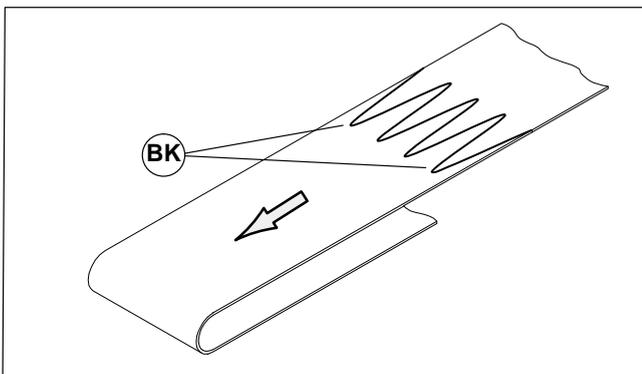


Figure 32

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

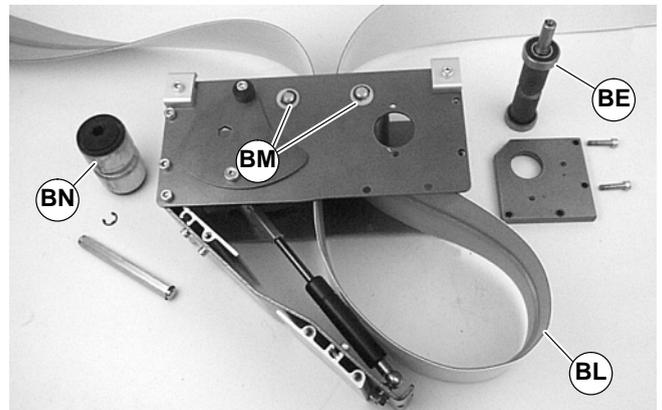


Figure 33

3. Place grooved idler pulley (BN of Figure 33) into the belt loop and install it in the drive module. Refer to "Belt Removal from Drive Module" on page 12 and reverse step 3.
4. Place drive pulley (BE of Figure 33) into the belt loop and install it in the drive module. Refer to "Belt Removal from Drive Module" on page 12 and reverse steps 1 and 2. Tighten screws (BC of Figure 27) to 9 Nm.
5. Install the drive module onto the conveyor and attach clamps (BB of Figure 26) in each corner. Tighten screws to 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 6, steps 3 through 5.
8. Adjust the conveyor tensioning end. See "Conveyor Tensioning End Adjustment", page 14.

Preventive Maintenance and Adjustment



WARNING

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

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

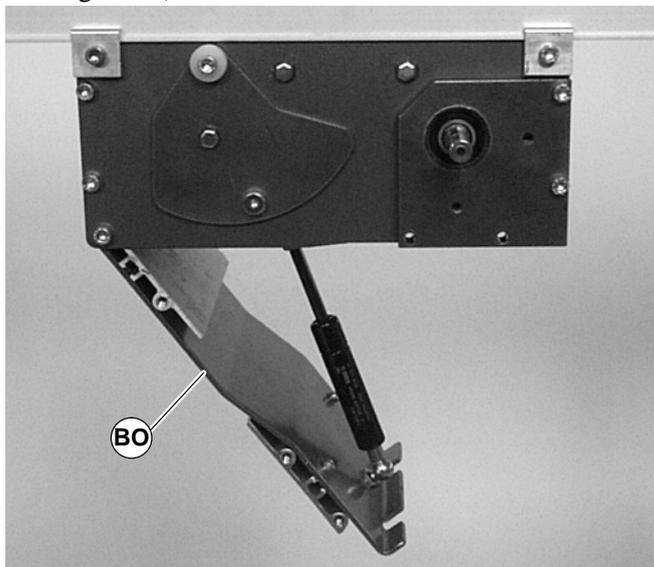


Figure 34

10. Tighten corner screws (BO of Figure 35) on each side of the drive module to 9 Nm.

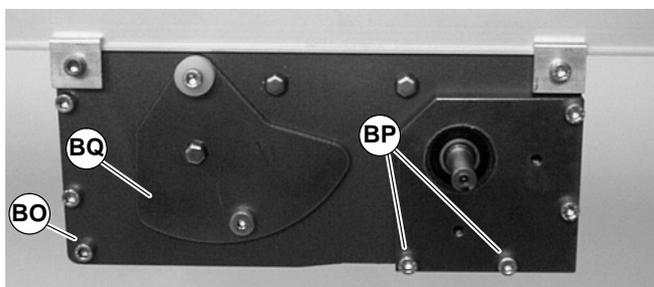


Figure 35

11. If equipped, re-install the gearmotor mounting package. Reverse steps of “Gearmotor Mounting Package Removal” procedure on page 11.
12. Re-install tension door screws (BP of Figure 35) on each side of the module. Tighten screws to 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 (AI of Figure 36): Install wiper (AI) then install screws (AJ).

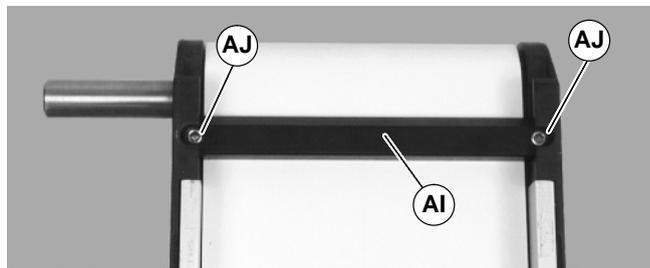


Figure 36

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.

Conveyors with 32 mm Diameter Pulleys

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

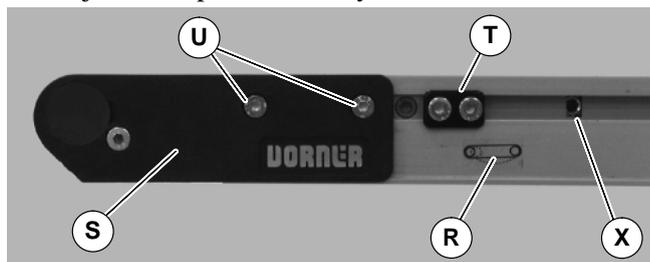


Figure 37

Preventive Maintenance and Adjustment

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

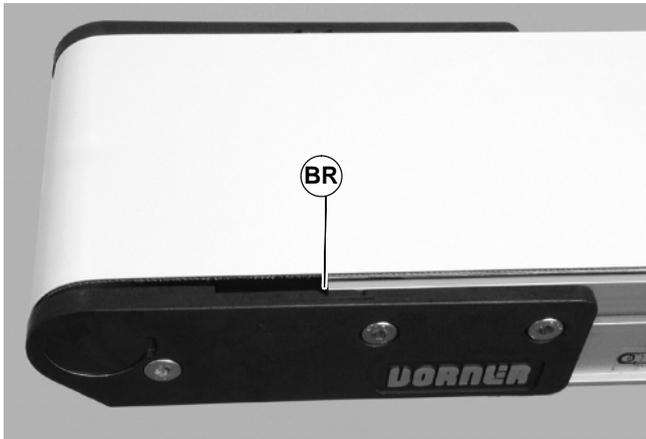


Figure 38

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

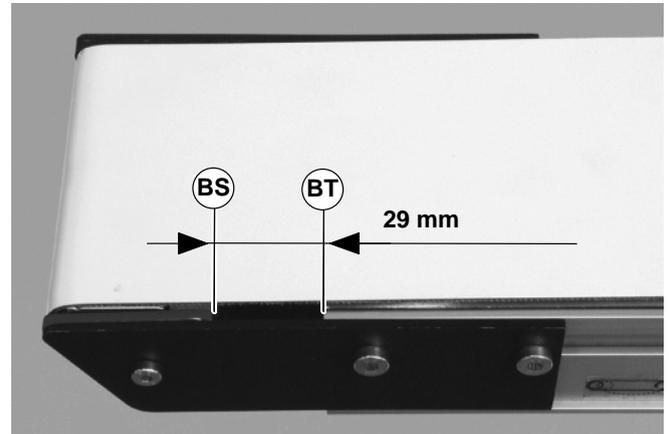


Figure 40

3. If equipped with cam tracking assemblies (T of Figure 37), reposition against head plates and adjust belt tracking. Refer to “Conveyor Belt Tracking”, page 16.

3. If equipped with cam tracking assemblies (T of Figure 39) position against head plates and adjust belt tracking. Refer to “Conveyor Belt Tracking”, page 16.

Conveyors with Nose Bar Idlers

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

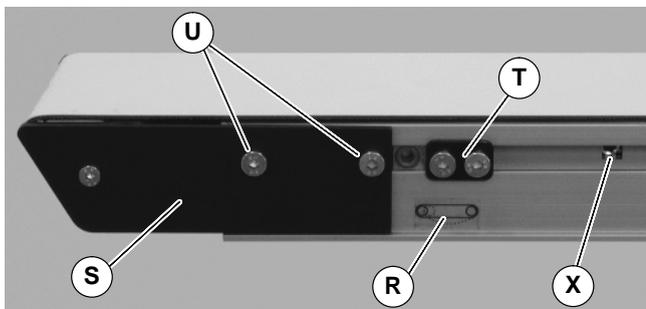
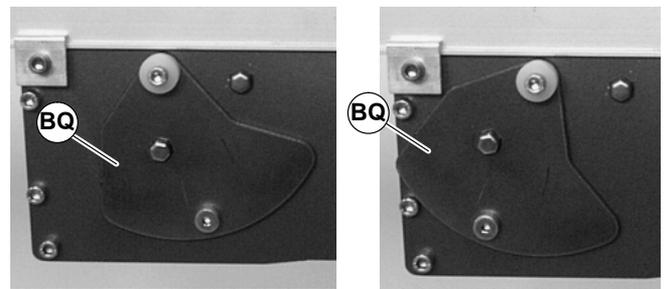


Figure 39

Conveyor Belt Tensioning

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

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



New Belt

Change Belt

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 (T of Figure 42) for belt tracking adjustment.

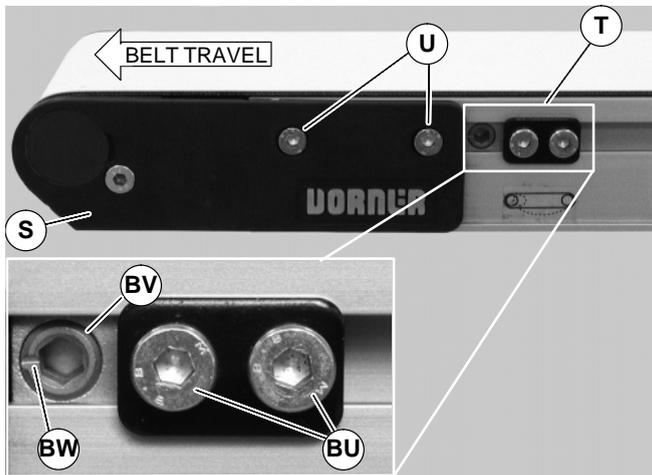


Figure 42

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

1. Ensure head plate fastening screws (U of Figure 42) 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 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 7 Nm.

Pulley Removal



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 9, steps 1 through 7.
- “Belt Removal for Conveyor With Stands and Gearmotor Mounting Package”, page 10, 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 both sides of conveyor, loosen two (2) fastening screws (U of Figure 43). Then slide idler pulley assembly out from the conveyor frame.

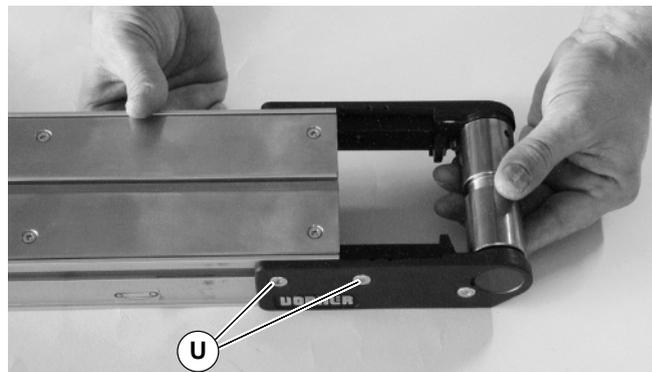


Figure 43

Preventive Maintenance and Adjustment

2. Remove bearing covers (BX of Figure 44).



Figure 44

3. With 4mm hex-key wrench, loosen pulley taper screw (BY of Figure 45). Steady pulley with second hex-key wrench (BZ) inserted into pulley hole. Repeat procedure for opposite side of pulley.

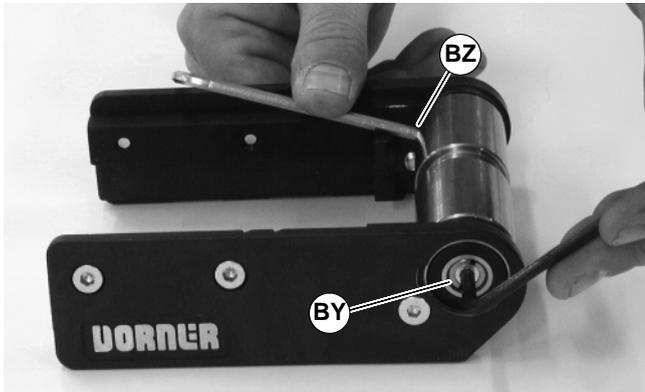


Figure 45

4. Pull head plates with bearings off from the pulley.

Drive Module Drive Pulley Removal

1. Remove the gearmotor drive package. Refer to “Gearmotor Mounting Package Removal”, page 11.
2. Remove the drive module. Refer to “Drive Module Removal”, page 12.
3. Remove the drive pulley. Refer to “Belt Removal from Drive Module”, page 12, steps 1 and 2.

Drive Module Idler Pulley Removal

1. Remove the gearmotor drive package. Refer to “Gearmotor Mounting Package Removal”, page 11.
2. Remove the drive module. Refer to “Drive Module Removal”, page 12.
3. Remove the grooved idler pulley. Refer to “Belt Removal from Drive Module”, page 12, step 3.
4. Remove smooth idler pulleys:
 - For 44 mm, 70 mm or 95 mm wide conveyor, detach E-ring clips and remove washers (CA of Figure 46). Remove pulley shafts (CB) and pulleys (CC).

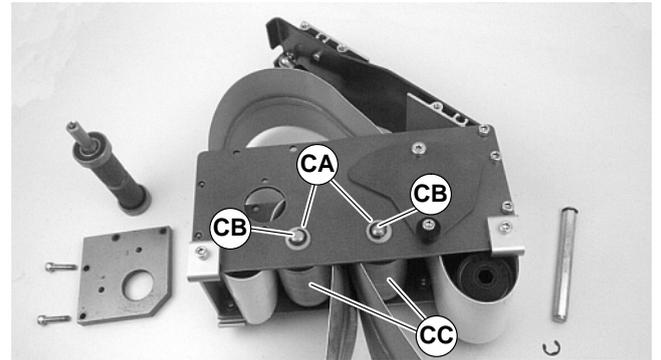


Figure 46

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

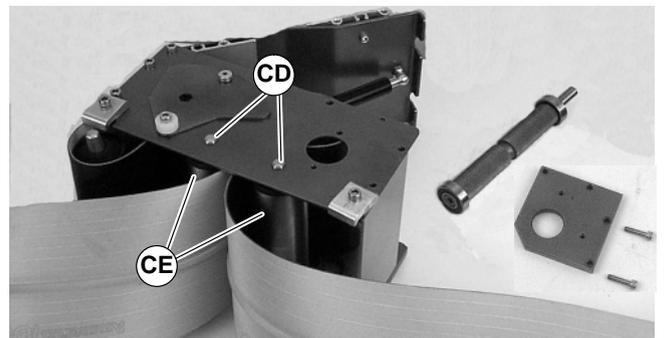


Figure 47

Preventive Maintenance and Adjustment

Conveyor Pulley Bearing Replacement

Removal

1. Turn bearing (CF of Figure 48) to align with slots (CH) in head plate. Then remove bearing.



Figure 48

Replacement

1. Inspect head plate bearing surface. If worn or damaged, replace head plate. See “Service Parts”, page 21.
2. Insert bearing (CF of Figure 49) into head plate slot and twist bearing to fit into bearing enclosure.

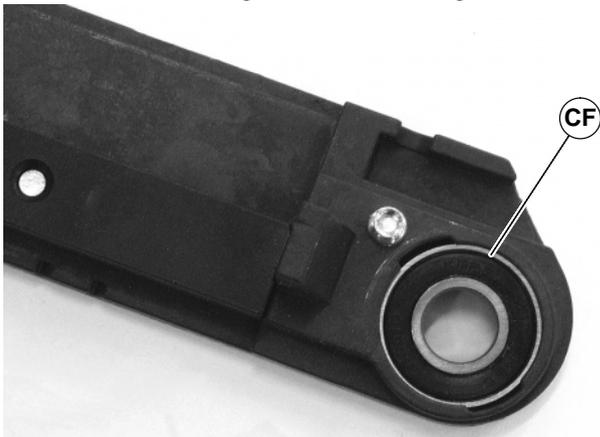


Figure 49

Pulley Replacement

Conveyor End Pulley

1. With bearing installed in head plate, press bearing on to shaft (CH of Figure 50) of pulley. Repeat for both sides of pulley.

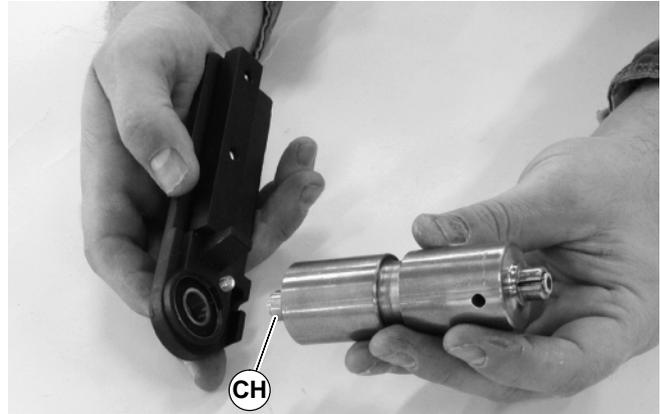


Figure 50

NOTE: DO NOT tighten shaft bearing taper screws at this time.

2. Install pulley assembly on conveyor. On both sides of conveyor, hand tighten fastening screws (U of Figure 51).

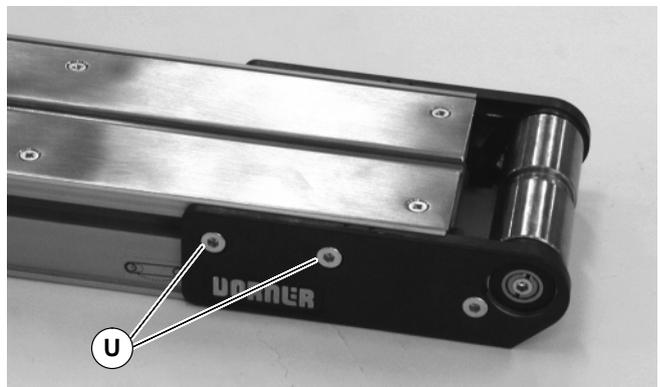


Figure 51

Preventive Maintenance and Adjustment

3. On both sides of pulley, use a 4mm hex-key wrench to tighten pulley taper screw (BY of Figure 52) to 4 Nm. Steady pulley with second hex-key wrench (BZ) inserted into pulley hole.

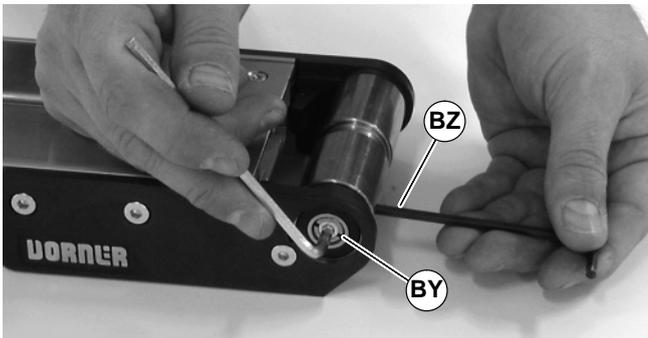


Figure 52

4. Install bearing covers (BX of Figure 53).

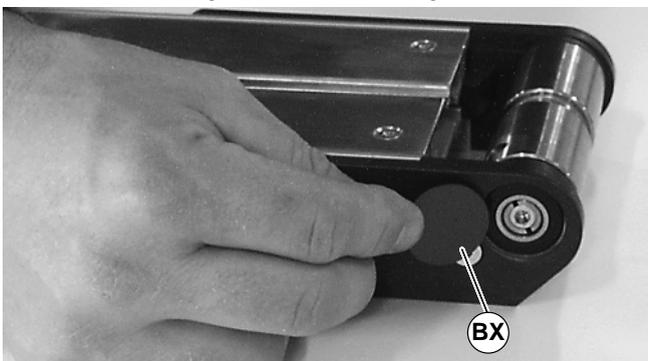


Figure 53

5. Re-install belt on end of conveyor, then tension the belt. See “Conveyor Tension End Adjustment”, page 14.
6. Re-position the cam assemblies against the head plates and adjust belt tracking. See “Conveyor Belt Tracking”, page 16.

Drive Module Drive Pulley

1. Reverse “Drive Module Drive Pulley Removal” procedure on page 17.
2. Re-install belt on end of conveyor, then tension the belt. See “Conveyor Tension End Adjustment”, page 14.
3. Re-position the cam assemblies against the head plates and adjust belt tracking. See “Conveyor Belt Tracking”, page 16.

Drive Module Idler Pulley

1. Reverse “Drive Module Idler Pulley Removal” procedure on page 17.
2. Re-install belt on end of conveyor, then tension the belt. See “Conveyor Tension End Adjustment”, page 14.
3. Re-position the cam assemblies against the head plates and adjust belt tracking. See “Conveyor Belt Tracking”, page 16.

Nose Bar Bearing Replacement



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 9, steps 1 through 7.
 - “Belt Removal for Conveyor With Stands and Gearmotor Mounting Package”, page 10, 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 (CJ & U of Figure 54) and remove head plate (S).

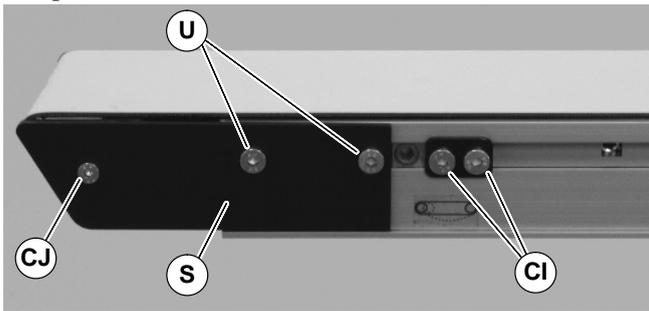


Figure 54

3. Slide bearing rods (CK of Figure 55) out side of conveyor and replace bearings (CL) as necessary.

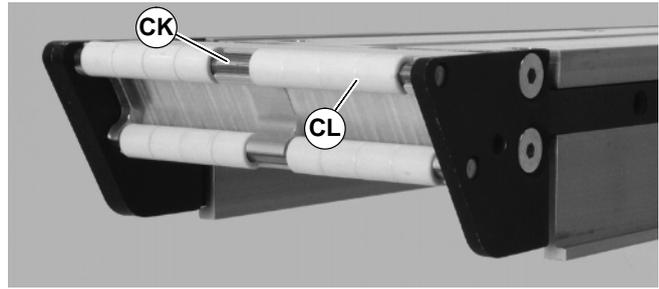


Figure 55

4. After replacing bearings, re-install head plate (S of Figure 54). Use a 3 mm hex-key wrench to tighten one (1) fastening screw (CJ) to 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 14.
6. Re-position the cam assemblies against the head plates and adjust belt tracking. See “Conveyor Belt Tracking”, page 16.

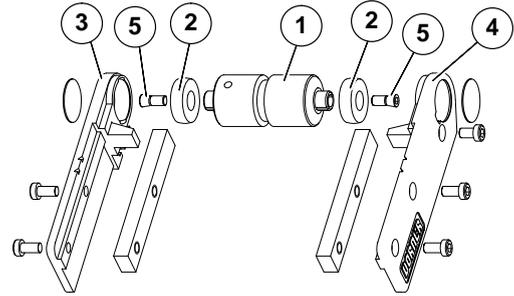
Replacement Parts

NOTE: For replacement parts other than those shown on this page, contact an authorized Dorner Service Center or the factory.

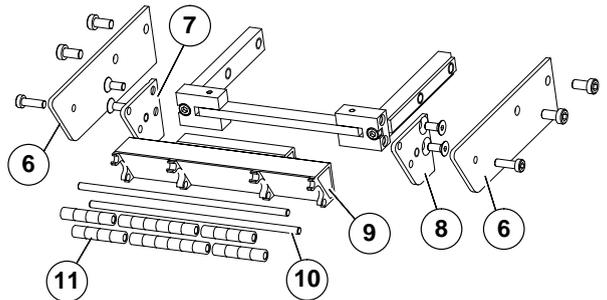
Item	Part No.	Part Description
Head Plate Assembly		
1	2407WW*	Idler Pulley
2	240328	Pulley Bearing
3	240325	Head Plate, Left-Side
4	240326	Head Plate, Right-Side
5	240330	Bearing Taper Screw
Nose Bar Assembly		
6	241125	Outside Head Plate (2x)
7	241126	Right Inside Head Plate
8	241127	Left Inside Head Plate
9	2412WW*	Bearing Extension Support
10	2413WW*	Bearing Shaft (2x)
11	801-122	Bearings
Return Roller Assembly, 51-152mm Belts		
12	240825	Roller Assembly
Return Roller Assembly, 203-610mm Belts		
13	240826	Return Roller Wheel (3x)

NOTE: WW = conveyor width

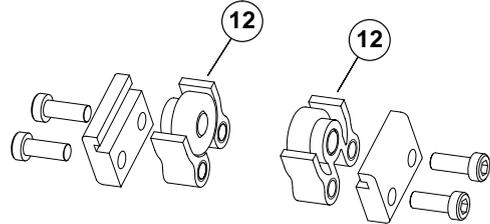
Head Plate Assembly



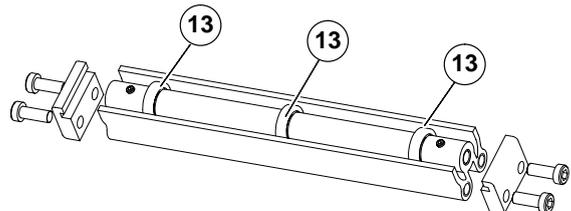
Nose Bar Assembly



Roller Assembly for 51-152mm Wide Belt Conveyors

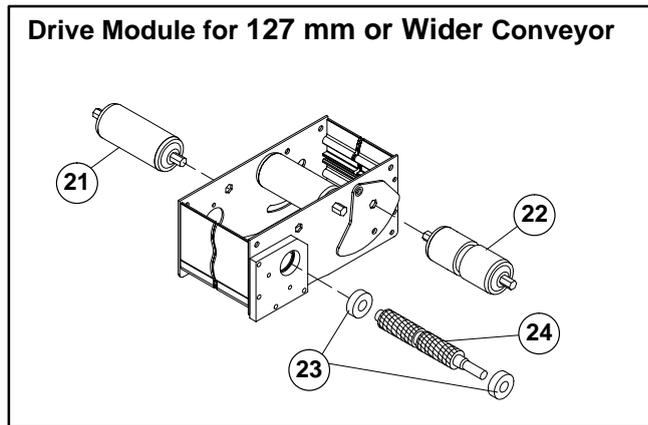
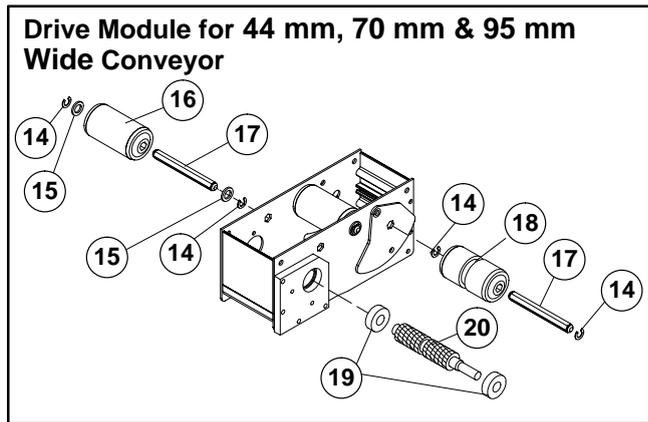


Roller Assembly for 203-610mm Wide Belt Conveyors



Service Parts

Item	Part No.	Part Description
Drive Module, 44mm, 70mm, 95m		
14	915-215	E-Ring Clip (0.44 diameter)
15	801-115	Washer
16	463046	Idler Pulley, 44 mm
	807-1007	Idler Pulley, 70 mm
	807-1008	Idler Pulley, 95 mm
17	463402	Pulley Shaft, 44 mm
	463403	Pulley Shaft, 70 mm
	463404	Pulley Shaft, 95 mm
18	463044	Grooved Idler Pulley, 44 mm
	463045	Grooved Idler Pulley, 70 mm
	807-1001	Grooved Idler Pulley, 95 mm
19	802-124	Pulley Bearings
20	463702M	Drive Pulley, 44 mm
	463703M	Drive Pulley, 70 mm
	463704M	Drive Pulley, 95 mm
Drive Module, 5" (127mm) or wider		
21	807-1009	Idler Pulley, 127 mm
	807-1010	Idler Pulley, 152 mm
	807-1011	Idler Pulley, 203 mm
	807-1012	Idler Pulley, 254 mm
	807-1013	Idler Pulley, 305 mm
	807-1088	Idler Pulley, 457 mm
	807-1089	Idler Pulley, 533 mm
	807-1090	Idler Pulley, 610 mm
	22	807-1002
807-1003		Grooved Idler Pulley, 152 mm
807-1004		Grooved Idler Pulley, 203 mm
807-1005		Grooved Idler Pulley, 254 mm
807-1006		Grooved Idler Pulley, 305 mm
807-1091		Grooved Idler Pulley, 457 mm
807-1092		Grooved Idler Pulley, 533 mm
807-1093	Grooved Idler Pulley, 610 mm	
23	802-124	Pulley Bearings
24	463705M	Drive Pulley, 127 mm
	463706M	Drive Pulley, 152 mm
	463708M	Drive Pulley, 203 mm
	463710M	Drive Pulley, 254 mm
	463712M	Drive Pulley, 305 mm
	463718M	Drive Pulley, 457 mm
	463721M	Drive Pulley, 533 mm
	463724M	Drive Pulley, 610 mm



Return Policy

No returns will be accepted without prior written factory authorization. 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. 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 to reference.

There will be a 15% restocking charge on all new items returned for credit where Dorner was not at fault. These will not be accepted after 60 days from original invoice date. The restocking charge covers inspection, cleaning, disassembly, and reissuing 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. Feel free to contact Dorner for the name of your local representative. Our technical sales and service staff will gladly help with your questions on Dorner products.

For a copy of Dorner's Limited 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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