

## Aluminium Single Post Support Stands & Pillar Supports




## Table of Contents


WARNINGS – General Safety .....	2	Flat Belt Conveyor Mounting Brackets .....	8
Introduction .....	2	2100, 3100, LPZ Conveyors .....	5
Product Description .....	3	6100 Conveyors .....	6
Specifications .....	3	2200 Conveyors .....	7
Model Dimensions .....	3	Cleated Belt Conveyor Mounting Brackets .....	8
Casters .....	3	2100, 3100, LPZ Conveyors .....	8
Diagonal Brace Models .....	3	6100 Conveyors .....	8
Installation .....	4	2200 Conveyors .....	9
Requirements for Use of One		Diagonal Brace .....	10
Single Post Stand for Conveyor Support .....	4	Conveyors 44mm Wide .....	10
Required Tools .....	4	Conveyors 70mm and Wider .....	11
Aluminium Single Post Stand Assembly .....	4	Preventative Maintenance & Adjustment .....	12
Height Adjustment .....	5	Required Tools .....	12
Foot Pad Adjustment .....	5	Height Adjustment .....	12
Pillar Support Assembly .....	5	Service Parts .....	13
Height Adjustment .....	5	Return Policy .....	14


## Warnings - General Safety


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

	<b>DANGER</b> DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.
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	<b>DANGER</b> Climbing, sitting, walking or riding on conveyor will cause severe injury. <b>KEEP OFF CONVEYORS.</b>
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	<b>WARNING</b> Loosening stand height or angle adjustment screws may cause conveyor sections to drop down, causing severe injury. <b>SUPPORT CONVEYOR SECTIONS PRIOR TO LOOSENING STAND HEIGHT OR ANGLE ADJUSTMENT SCREWS.</b>
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	<b>WARNING</b> Exposed moving parts can cause severe injury. <b>LOCK OUT POWER</b> before removing guards or performing maintenance.
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	<b>WARNING</b> 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, <b>CHECK FOR POTENTIAL PINCH POINTS</b> and other mechanical hazards before system startup.
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	<b>DANGER</b> Pillar supports not anchored to floor will tip, causing severe injury or death. <b>PILLAR SUPPORT MUST BE ANCHORED TO FLOOR.</b>
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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 reserves the right to make changes at any time without notice or obligation.

# Product Description

Refer to Figure 1 for typical components.

Typical Components	
A	Conveyor Support
B	Post
C	Base
D	Casters

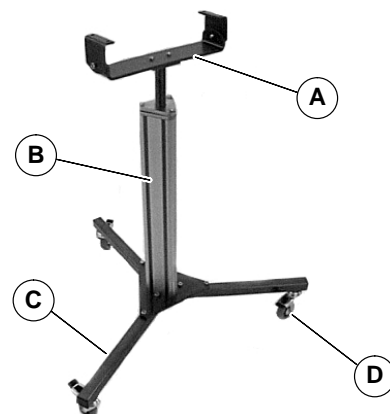


Figure 1

## Specifications

### Model Dimensions

#### Casters:

- For stand with casters, add C to the end of the part number (Example: 49U1240C)

#### Diagonal Brace Models:

- 49U01WW: for Metric Stands 762mm and taller
- 49U00WW: for Metric Stands Under 762 mm

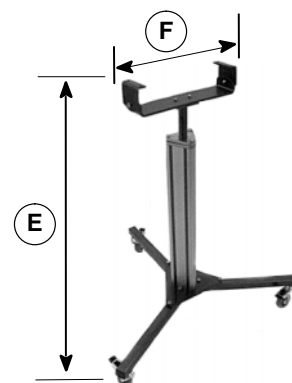


Figure 2

Table 1: Aluminium Single Post Support Stand

Stand Height Ref.	Height Range (E) (mm)	Nominal Stand Width (F)							
		51mm	76mm	102mm	127mm	152mm	203mm	254mm	305mm
16	406 – 660	49U0216	49U0316	49U0416	49U0516	49U0616	49U0816	49U1016	49U1216
24	610 – 864	49U0224	49U0324	49U0424	49U0524	49U0624	49U0824	49U1024	49U1224
32	813 – 1067	49U0232	49U0332	49U0432	49U0532	49U0632	49U0832	49U1032	49U1232
40	1016 – 1270	49U0240	49U0340	49U0440	49U0540	49U0640	49U0840	49U1040	49U1240
48	1219 – 1473	49U0248	49U0348	49U0448	49U0548	49U0648	49U0848	49U1048	49U1248

Table 2: Aluminium Pillar Support

Stand Height Ref.	Height Range (E) (mm)	Nominal Stand Width (F)							
		51mm	76mm	102mm	127mm	152mm	203mm	254mm	305mm
16	406 – 660	49UP0216	49UP0316	49UP0416	49UP0516	49UP0616	49UP0816	49UP1016	49UP1216
24	610 – 864	49UP0224	49UP0324	49UP0424	49UP0524	49UP0624	49UP0824	49UP1024	49UP1224
32	813 – 1067	49UP0232	49UP0332	49UP0432	49UP0532	49UP0632	49UP0832	49UP1032	49UP1232
40	1016 – 1270	49UP0240	49UP0340	49UP0440	49UP0540	49UP0640	49UP0840	49UP1040	49UP1240
48	1219 – 1473	49UP0248	49UP0348	49UP0448	49UP0548	49UP0648	49UP0848	49UP1048	49UP1248

# Installation

## Requirements for Use of One Single Post Stand for Conveyor Support



### WARNING



For maximum stability, install the conveyor on the stand so it is positioned and balanced as shown (at right).

DO NOT use with conveyors over 1219mm long.

DO NOT use with conveyor equipped with a heavy load gearmotor bottom mounting package.

Failure to heed this warning could result in the conveyor being unstable and tipping over, resulting in equipment damage or personal injury.

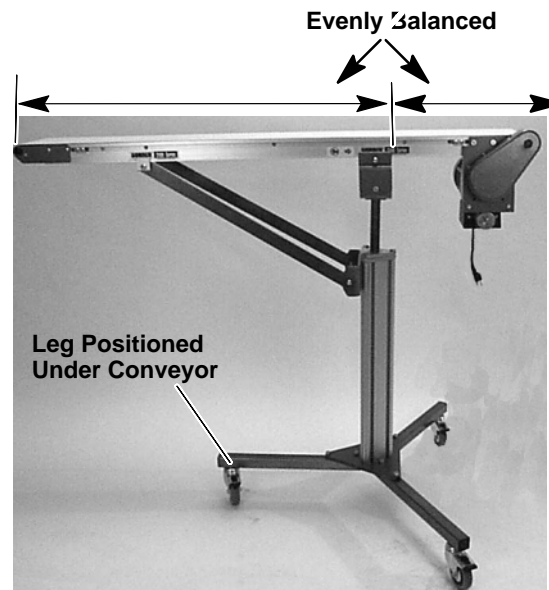


Figure 3

## Required Tools

- 13 mm wrench
- Hex key wrenches:
  - 4 mm, 5 mm, 6 mm

## Aluminium Single Post Stand Assembly

1. Gather components (Figure 4).

### Installation Component List

G	Post
H	Conveyor Support
I	Base Leg (3x)
J	M6 Socket Head Screws (2x)
K	M8 Socket Head Screws (6x)

**NOTE:** Caster option shown. Foot pad option similar.

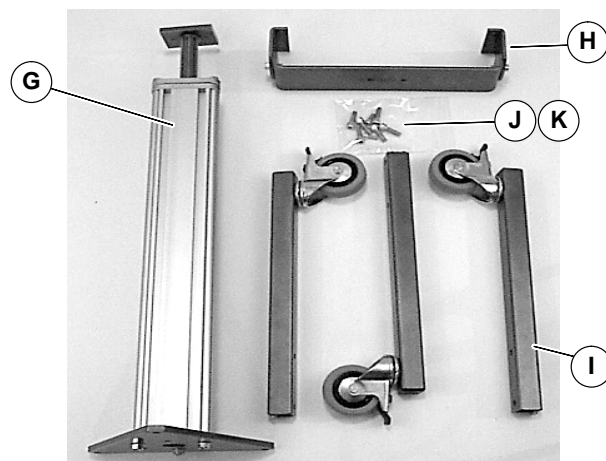


Figure 4

2. Assemble conveyor support (H of Figure 5) to post with M6 screws (J). Tighten screws to 15 Nm.

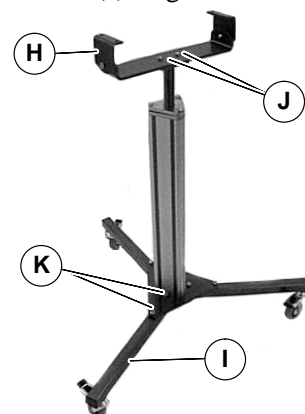


Figure 5

3. Assemble base legs (I) to post with M8 screws (K). Tighten screws to 28 Nm.

## Height Adjustment

1. Loosen three post bolts (L of Figure 6). Adjust conveyor support (H).

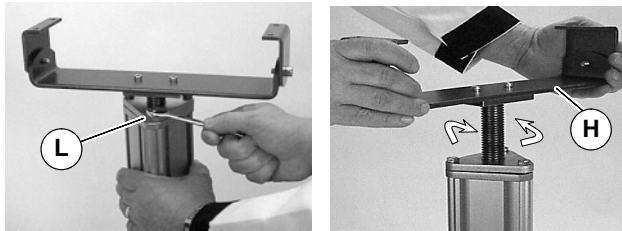


Figure 6

2. Re-tighten post bolts (L).

## Foot Pad Adjustment

1. Loosen jam nuts (M of Figure 6). Adjust foot pads (N) to level stand.

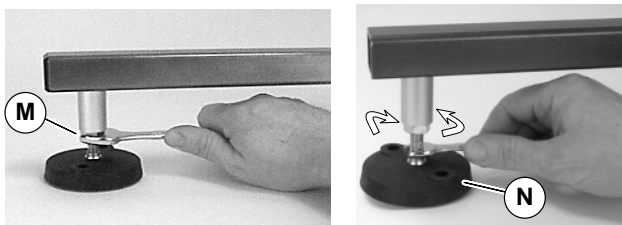


Figure 7

2. Re-tighten jam nuts (M).

## Pillar Support Assembly



1. Gather components (Figure 8).

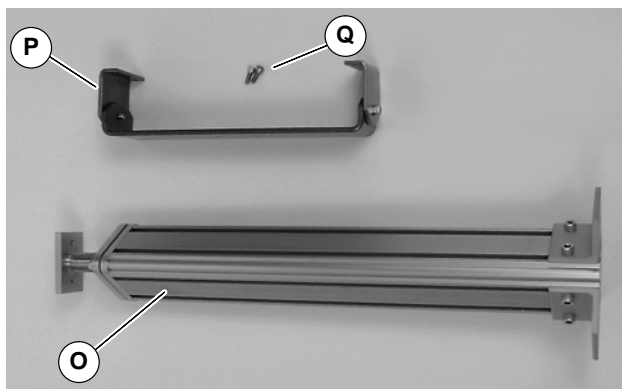


Figure 8

## Installation Component List

O	Pillar
P	Conveyor Support
Q	M6 Socket Head Screws (2x)

2. Assemble conveyor support (Q of Figure 9) to pillar (O) with M6 screws. Tighten screws to 15 Nm.

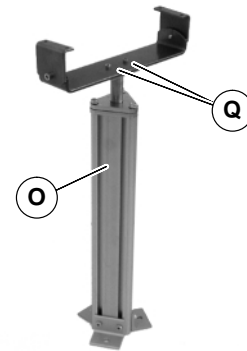


Figure 9

## Height Adjustment

Refer to "Height Adjustment" of previous section.

## Flat Belt Conveyor Mounting Brackets

### 2100, 3100, LPZ Conveyors

1. Gather components (Figure 10).

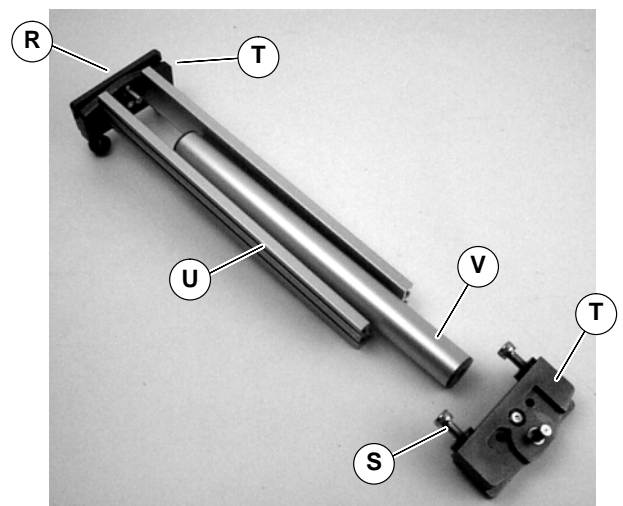


Figure 10

## Installation Component List

R	M8 x 18 Button Head Screw (2x)
S	M6 x 18 Socket Head Screw & Washers (4x)
T	Bracket Assembly (2x)
U	Roller Guide (2x)
V	Return Roller

# Installation

**NOTE:** Roller guides (U) are shipped attached to one bracket assembly (T). DO NOT attach guards to other bracket assembly.

2. Assemble components (Figure 11). Loosen, do not remove, bracket screws (R). Remove mounting screws and washers (S).

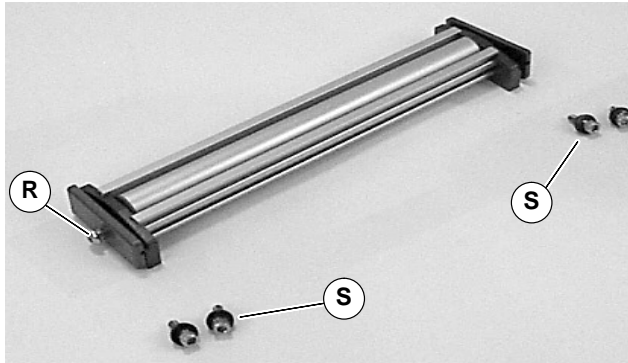


Figure 11

3. Install assembly (W of Figure 12) on bottom of conveyor. Align assembly perpendicular to conveyor frame. Tighten bracket screws (R): Tighten M8 screws to 9 Nm.

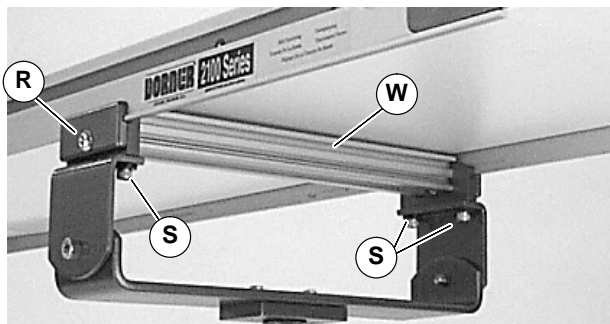


Figure 12

4. Install conveyor on stand. Tighten mounting screws (S) to 9 Nm.
5. Make sure belt moves freely over assembly (W).

## 6100 Conveyors

### Conveyors 44–152mm Wide

1. Gather components (Figure 13).

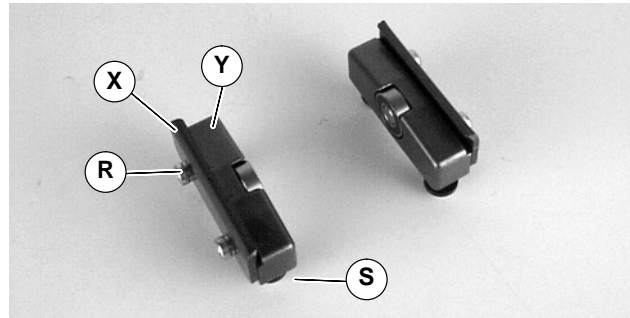


Figure 13

#### Installation Component List

R	M6 x 12 Socket Head Screw (4x)
S	M6 x 18 Socket Head Screw & Washers (4x)
X	Bracket (2x)
Y	Roller Assembly (2.)

2. Loosen, do not remove, bracket screws (R of Figure 14). Remove mounting screws and washers (S).

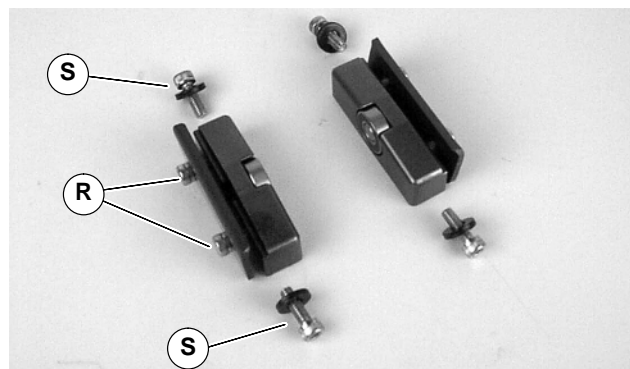


Figure 14

3. Install assemblies (W of Figure 15) on bottom of conveyor. Tighten bracket screws (R) to 9 Nm.

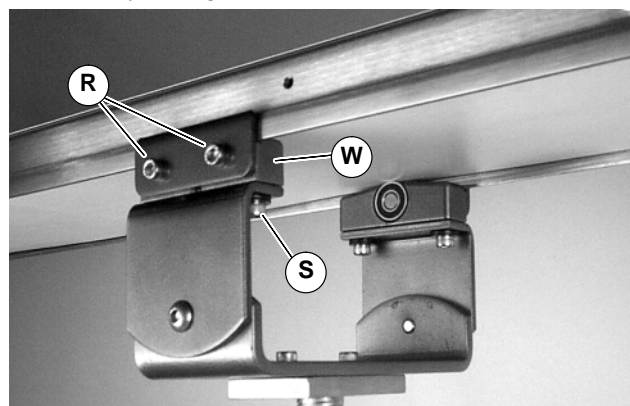


Figure 15

4. Install conveyor on stand. Tighten mounting screws (S) to 9 Nm.
5. Make sure belt moves freely over assembly (W).

## Conveyors 203mm and Wider

1. Gather attachment components (Figure 16).

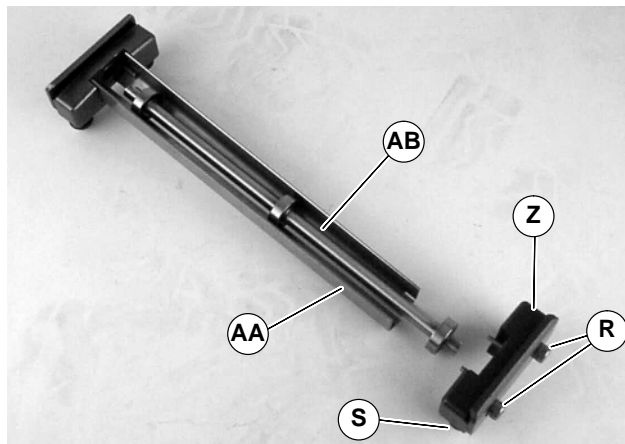


Figure 16

### Installation Component List

R	M6 x 12 Socket Head Screw (4x)
S	M6 x 18 socket head screw (4x)
Z	Bracket Assembly (2x)
AA	Roller Guide Assembly
AB	Return Roller Assembly

2. Assemble components (Figure 17). Loosen, do not remove, bracket screws (R of Figure 14). Remove mounting screws and washers (S).

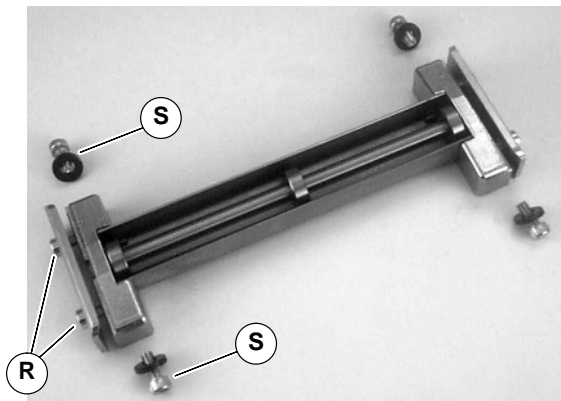


Figure 17

4. Install assembly (W of Figure 18) on bottom of conveyor. Align assembly perpendicular to conveyor frame. Tighten bracket screws (R) to 9 Nm.

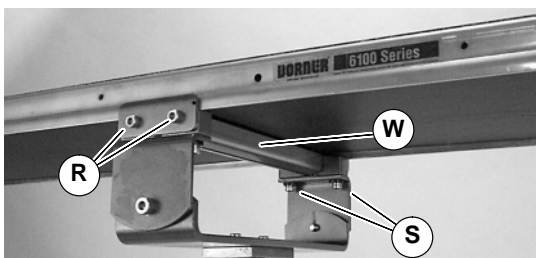


Figure 18

3. Install conveyor on stand. Tighten mounting screws (S) to 9 Nm.
4. Make sure belt moves freely over assembly (W).

## 2200 Conveyors

1. Gather components (Figure 19).

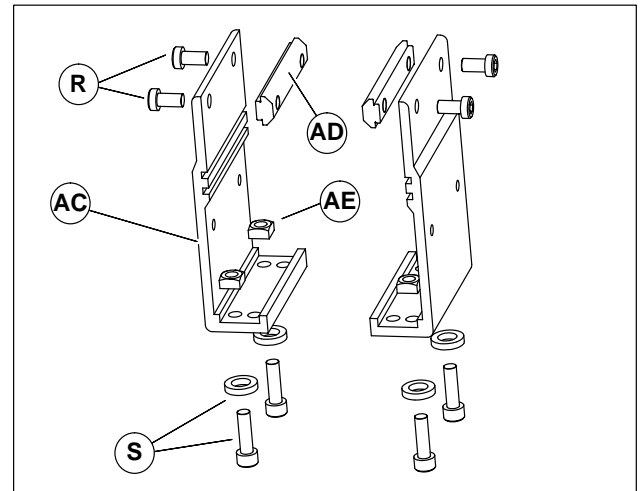


Figure 19

### Installation Component List

R	M6 x 16 Low Head Screw (4x)
S	M6 x 20 Socket Head Screw & Washer (4x)
AC	Mounting Bracket (2x)
AD	T-bar (2x)
AE	Anchor Nut (4x)

2. Remove screws (R & S of Figure 19), nuts (AE) and T-bars (AD) from brackets (AC).
3. Insert T-bars (AD of Figure 19) into conveyor side slots (AF of Figure 20). Fasten brackets (AC) to conveyor with mounting screws (R).

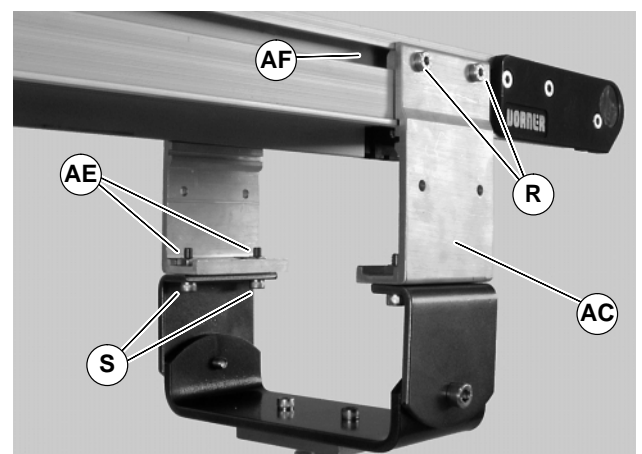


Figure 20

4. Fasten brackets to stand with mounting screws & washers (S of Figure 20) and nuts (AE).
5. Tighten screws (R & S of Figure 20) to 9 Nm.

# Installation

## Cleated Belt Conveyor Mounting Brackets 2100, 3100, LPZ Conveyors

1. Gather components (Figure 21).

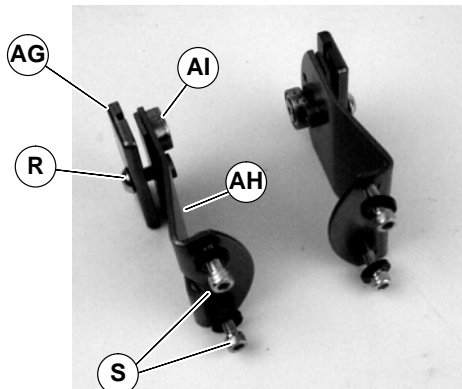


Figure 21

### Installation Component List

R	M8 x 18 Button Head Screw (2x) or M8 x 30 button head screw (2x), LPZ
S	M6 x 18 Socket Head Screw & Washers (4x)
AG	Bracket (2x)
AH	Roller Support (2x)
AI	Return Roller (2x)

2. Loosen, do not remove, bracket screws (R of Figure 22). Remove mounting screws and washers (S).

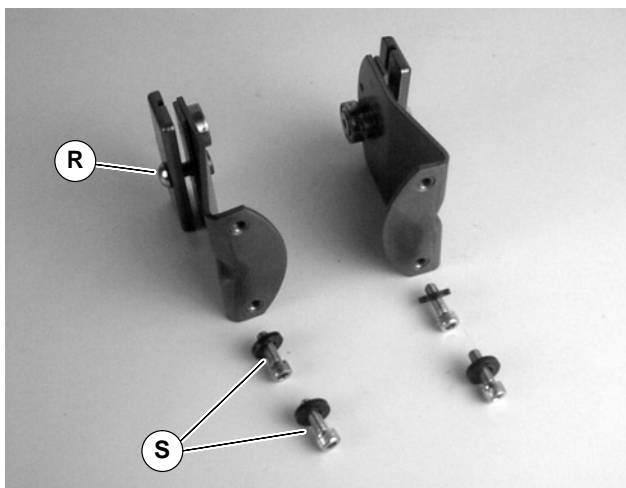


Figure 22

3. Install attachment assembly (W of Figure 23) on bottom of conveyor. Tighten bracket screws (R): Tighten M8 screws to 9 Nm.

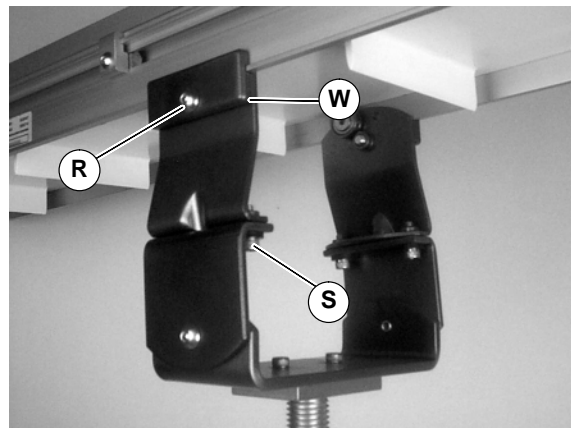


Figure 23

4. Install conveyor on stand. Tighten mounting screws (S) 9 Nm.
5. Make sure belt moves freely over assembly (W).

## 6100 Conveyors

1. Gather components (Figure 24).

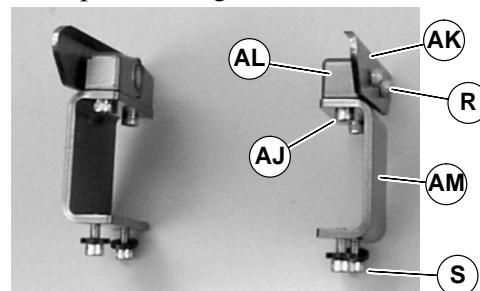


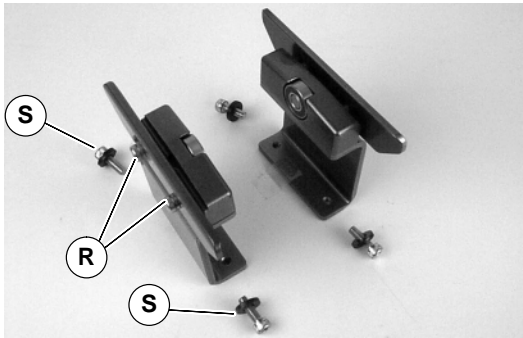
Figure 24

### Installation Component List

R	M6 x 12 Socket Head Screw (4x)
S	M6 x 18 Socket Head Screw & Washers (4x)
AJ	M6 x 16 Socket Head Screw (4x)
AK	Bracket (2x)
AL	Roller Assembly (2x)
AM	Roller Support (2x)

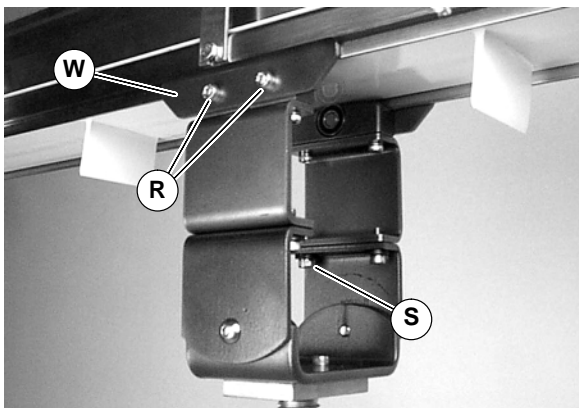
2. Loosen, do not remove, bracket screws (R of Figure 25). Remove mounting screws and washers (S).





**Figure 25**

3. Install assembly (W of Figure 26) on bottom of conveyor. Tighten bracket screws (R) to 9 Nm.

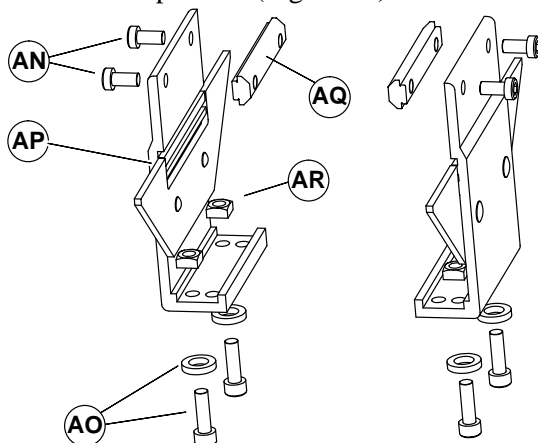


**Figure 26**

4. Install conveyor on stand. Tighten mounting screws (S) 9 Nm.
5. Make sure belt moves freely over assembly (W).

## 2200 Conveyors

1. Gather components (Figure 27).

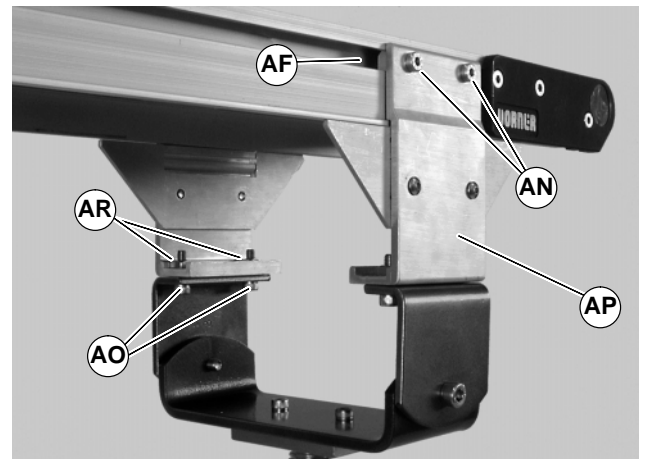


**Figure 27**

### Installation Component List

AN	M6 x 16 low head screw (4x)
AO	M6 x 20 socket head screw with washer (4x)
AP	Mounting Bracket (2x)
AQ	T-bar (2x)
AR	Anchor Nut (4x)

2. Remove screws (AN & AO of Figure 27), nuts (AR) and T-bars (AQ) from brackets (AP).
3. Insert T-bars (AQ of Figure 27) into conveyor side slots (AF of Figure 28). Fasten brackets (AP) to conveyor with mounting screws (AN).



**Figure 28**

4. Fasten brackets to stand with mounting screws (AO of Figure 20), washers and nuts (AR).
5. Tighten screws (AN & AO of Figure 20) to 9 Nm.

# Installation

## Diagonal Brace

### Conveyors 44mm Wide

1. Gather components (Figure 29).

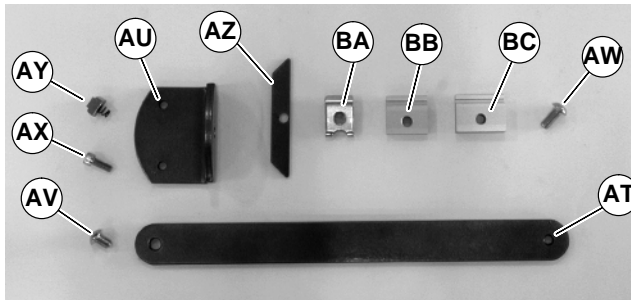


Figure 29

#### Fastening Hardware

AT	Diagonal Brace
AU	Brace Bracket
AV	M8 x 12 Button Head Screw (1x)
AW	M8 x 18 Button Head Screw (1x)
AX	M6 x 16 Socket Head Screw (2x)
AY	M6 Spring Nut (2x)
AZ	6100 Cleated Belt Guard
BA	6100 Clip
BB	2100/2200 Clip
BC	3100/LPZ Clip

2. Insert spring nuts (AY of Figure 30) into stand post.

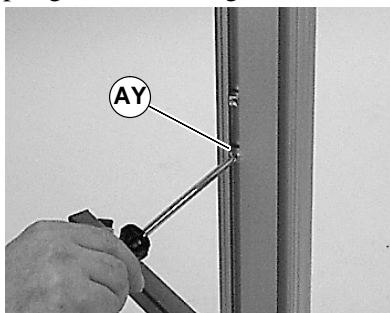


Figure 30

3. Attach brace bracket (AU of Figure 31) with M6 screws (AX). Tighten screws to 9 Nm.

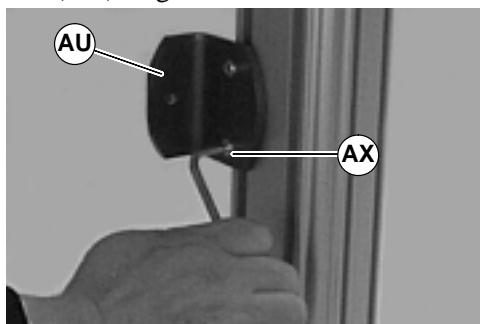


Figure 31

4. Attach brace (AT of Figure 32) to brace bracket (AU) with M8 screw (AV).

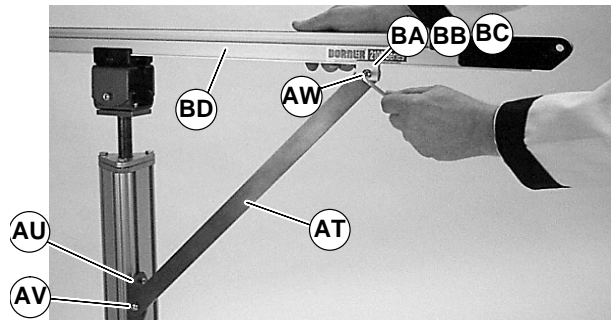


Figure 32

- 5A. For 2100 and 2200 conveyors: Attach brace (AT) to conveyor rail (BD) with 2100/2200 clip (BB) and M8 screw (AW).
- 5B. For 3100 and LPZ conveyors: Attach brace (AT) to conveyor rail (BD) with 3100/LPZ clip (BC) and M8 screw (AW).
- 5C. For 6100 conveyors: Insert belt guard (AZ of Figure 33) into 6100 clip (BA). Attach brace (AT of Figure 32) to conveyor rail (BD) with clip (BA) and M8 screw (AW).

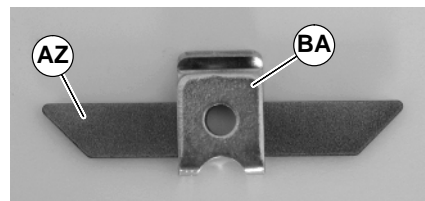


Figure 33

6. Tighten M8 screws (AV & AW of Figure 32) to 9 Nm.

## Conveyors 70mm and Wider

1. Gather attachment components (Figure 34).

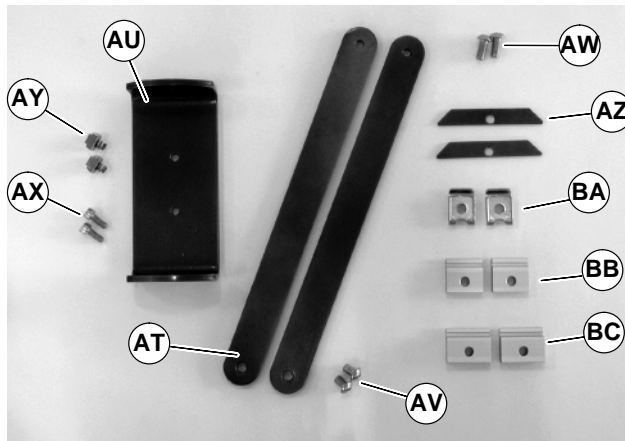


Figure 34

### Fastening Hardware

AT	Diagonal Brace (2x)
AU	Brace Bracket
AV	M8 x 12 Button Head Screw (2x)
AW	M8 x 18 Button Head Screw (2x)
AX	M6 x 16 Socket Head Screw (2x)
AY	M6 Spring Nut (2x)
AZ	6100 Cleated Belt Guard (2x)
BA	6100 Clip (2x)
BB	2100/2200 Clip (2x)
BC	3100/LPZ Clip (2x)

2. Insert spring nuts (AY) in post (Figure 35).

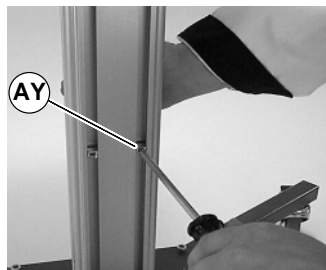


Figure 35

3. Attach brace bracket (AU of Figure 36) with M6 screws (AX). Tighten screws 9 Nm.

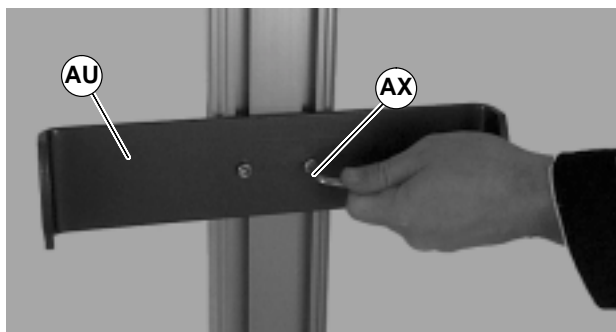


Figure 36

4. Attach braces (AT of Figure 37) to brace bracket (AU) with M8 screw (AV).

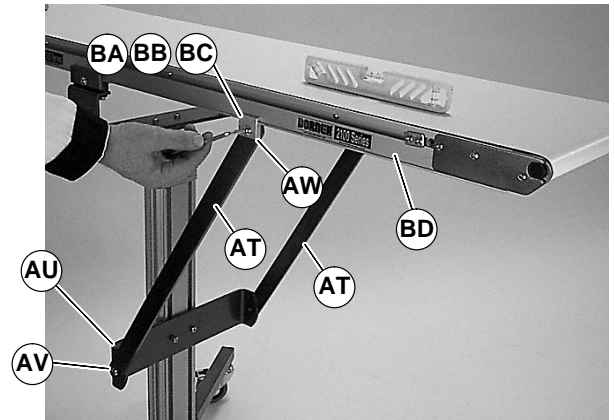


Figure 37

5A. For 2100 and 2200 conveyors: Attach braces (AT) to conveyor rails (BD) with 2100/2200 clips (BB) and M8 screws (AW).

5B. For 3100 and LPZ conveyors: Attach braces (AT) to conveyor rails (BD) with 3100/LPZ clips (BC) and M8 screws (AW).

5C. For 6100 conveyors: Insert belt guards (AZ of Figure 38) into 6100 clips (BA). Attach braces (AT of Figure 37) to conveyor rails (BD) with 6100 clips (BA) and M8 screws (AW).

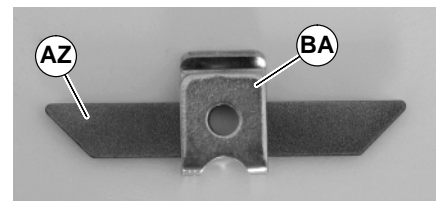


Figure 38


6. Tighten M8 screws (AV & AW of Figure 37) to 9 Nm.

# Preventive Maintenance and Adjustment

## Required Tools

- 13 mm wrench
- Hex key wrenches:  
4 mm, 5 mm, 6 mm

## Height Adjustment

	<p><b>! WARNING</b></p> <p>Loosening stand height or angle adjustment screws may cause conveyor sections to drop down, causing severe injury. <b>SUPPORT CONVEYOR SECTIONS PRIOR TO LOOSENING STAND HEIGHT OR ANGLE ADJUSTMENT SCREWS.</b></p>
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1. Place temporary support stand (BE of Figure 39) under conveyor.

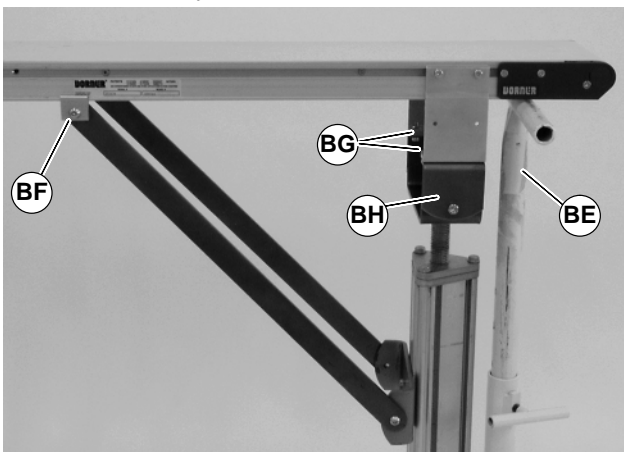


Figure 39

2. If installed, remove brace fastening hardware (BF) from the conveyor. Allow brace(s) to rest against the post of the stand.
3. Remove fastening hardware (BG) from the conveyor support (BH).
4. Raise conveyor off from conveyor support (BH) by adjusting temporary stand (BE) upward.
5. Loosen three post bolts (BI of Figure 40). Adjust conveyor support (BJ).

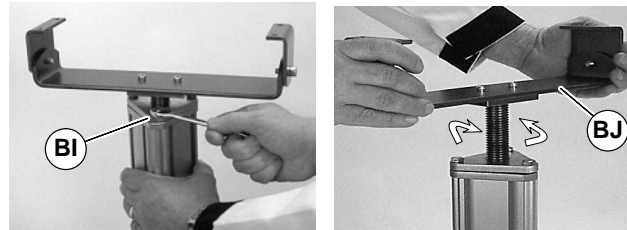


Figure 40

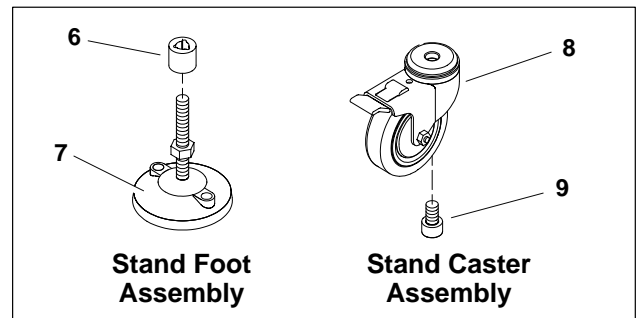
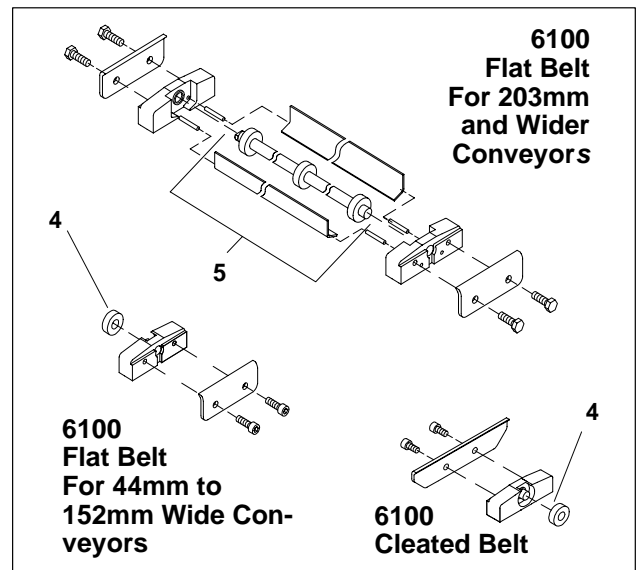
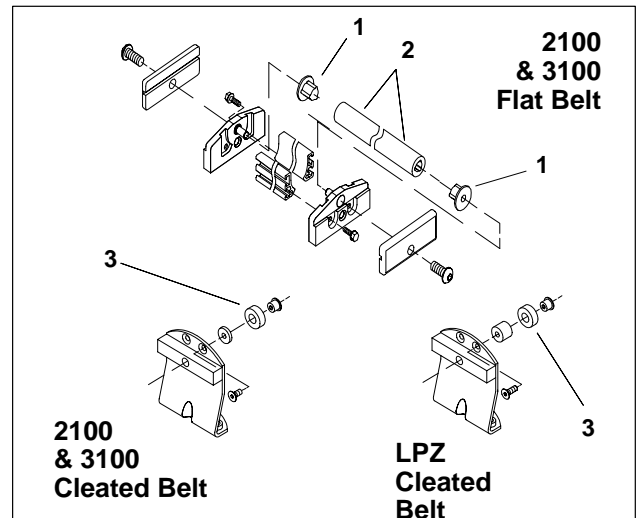
6. Re-tighten post bolts (BI).
7. Lower conveyor onto conveyor support (BH of Figure 39). Attach conveyor with fastening hardware (BG).

## Replacement Parts

**NOTE:** For replacement parts other than those shown here, contact Dorner or an authorized service center.

Item	Part No.	Part Description
1	202311P	Return Roller Bearing
2	20777WW	Return Roller Tube
3	802-027	Sealed Ball Bearing
4	802-123	Ball Bearing
5	4531WWSS	Return Roller Assembly
6	688054	Stand Foot Spacer Tube
7	807-930	76mm Dia. Leveling Foot
8	807-936	Caster Assy, 76mm Dia.
9	921020M	Socket Head Cap Screw, M10-1.5 x 20mm

NOTE: WW = conveyor width



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## Return Policy

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

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

**DORNER®**

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