

Pulley Transfer Plates for 3200 & LPZ Series Conveyors

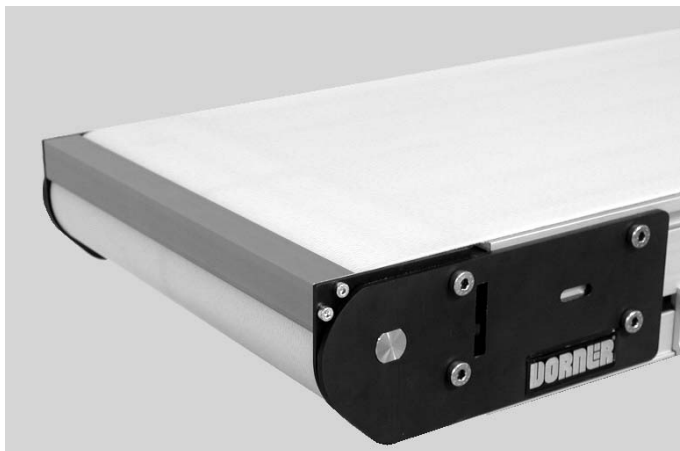


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Warnings – General Safety

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

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

	WARNING
<p>Exposed moving parts can cause severe injury. REPLACE ALL GUARDS BEFORE RUNNING CONVEYOR.</p>	

	DANGER
<p>Use of transfer plate with high friction conveyor belt will cause severe injury. DO NOT use transfer plate with /03, /08, /55, /62, /64, or other high friction belts.</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 3200 Series conveyors are covered by patent numbers 5156260, 5156261, 5203447, 5265714 and corresponding patents and patent applications in other countries.

Dorner LPZ Series conveyors are covered by patent numbers 5156260, 5156261, 5203447, 5265714, 5875883 and corresponding patents and patent applications in other countries.

Dorner's Limited Warranty applies.


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

Required Tools

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

Pulley Transfer Plate Mounting

	 DANGER
	<p>Use of transfer plate with high friction conveyor belt will cause severe injury.</p> <p>DO NOT use transfer plate with /03, /08, /55, /62, /64, or other high friction belts.</p>

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

1. Gather components (Figure 1)

Installation Component List	
A	Transfer Plate
B	Spacer Bracket, Transfer Plate (2x)
C	M4 x 10mm Socket Head Screw (2x)
D	M5 x 10mm Socket Head Screw (2x)

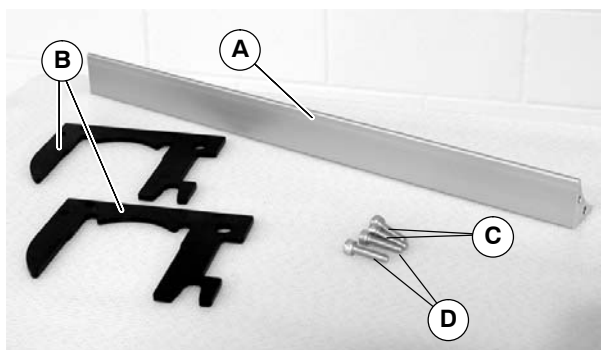


Figure 1

2. On tension end of the conveyor, identified by the pinion locking screw (E of Figure 2), push in head plate assembly (F): Loosen the pinion locking screw (E), adjust the pinion torque screw (G of Figure 3). On both sides of conveyor, loosen the two tail clamp bolts (H of Figure 2), and push head plate assembly (F) inward.

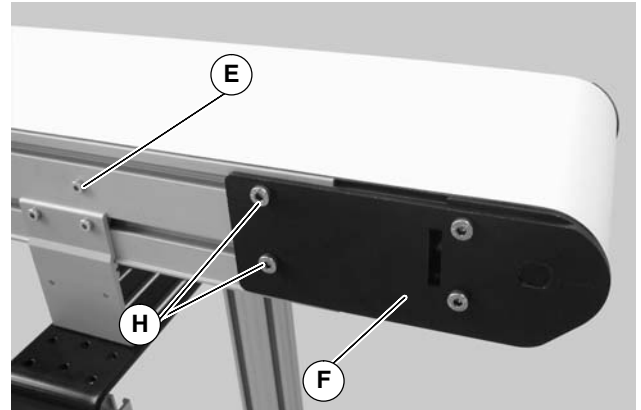


Figure 2



Figure 3

3. Loosen screw (I of Figure 4) on both sides of conveyor.

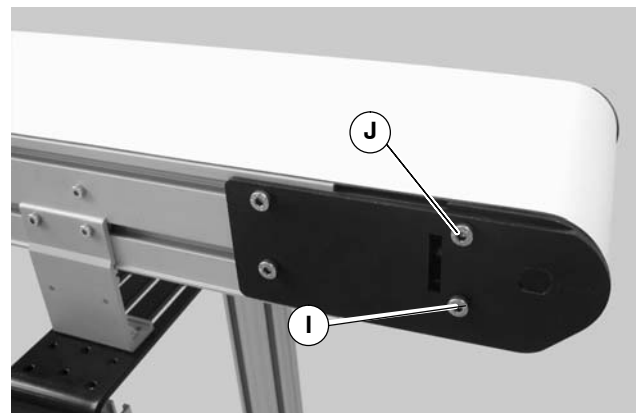


Figure 4

Installation

- Remove screw (J of Figure 4) on both sides of conveyor. Remove existing spacer plates (K of Figure 5) on both sides of conveyor.

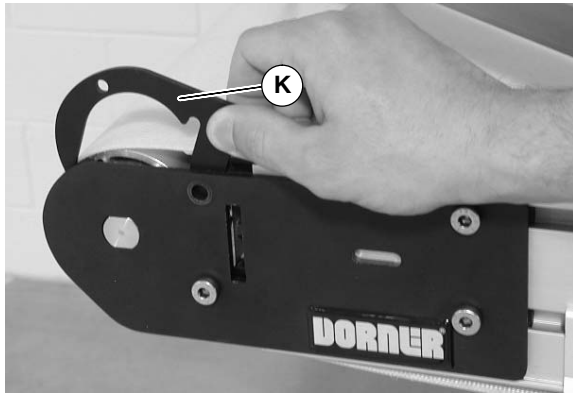


Figure 5

- Replace with new spacer plates (B of Figure 6). Insert screw (J) hand tight.

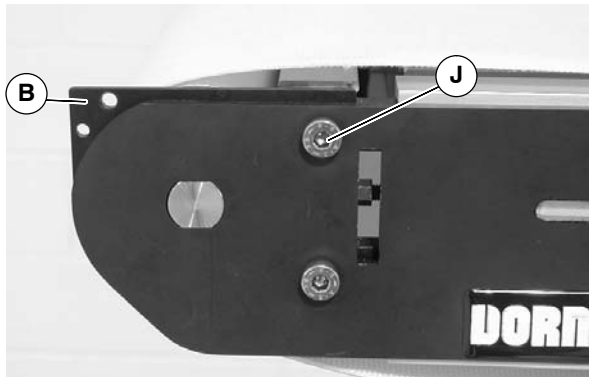


Figure 6

- Place transfer plate support (A of Figure 7) on end of conveyor and attach with screws (C) and (D) on each side of conveyor. Tighten screws (C and D) to 50 in-lbs (5.6 N-m).
- Tighten screws (I and J of Figure 7) to 146 in-lbs (16.5 N-m).

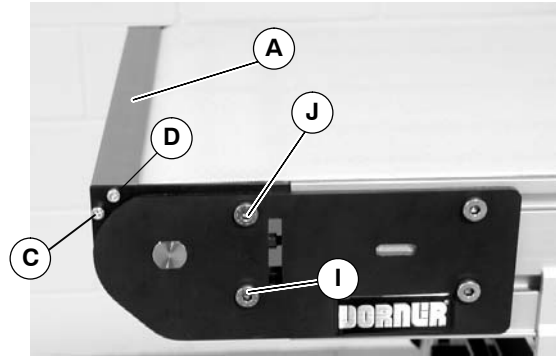


Figure 7

NOTE: For conveyors longer than 20 ft (6096 mm) the belt tensioning procedure outlined below may be performed on both the Drive and Idler Ends of the conveyor.

- On tension end of the conveyor, identified by the pinion locking screw (E of Figure 8), loosen the two tail clamp bolts (H), on both sides of conveyor.

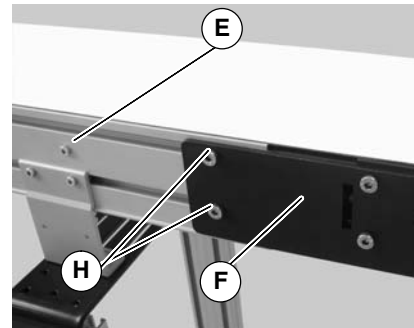


Figure 8

NOTE: Do not exceed a torque of 100 in-lb (11.3 N-m) on pinion gear. Over tensioning the conveyor belt could cause excessive pulley bearing load and early failure.

- With 5mm hex wrench, hold pinion torque screw (G of Figure 9). Loosen the pinion locking screw (E of Figure 8) and turn the pinion torque screw (G) to extend head plate assembly.

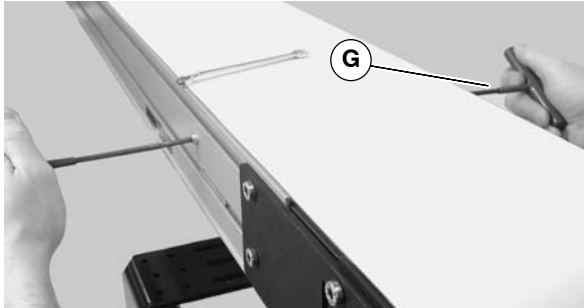


Figure 9

10. Extend head plate assembly until proper tension in the belt is achieved. If proper tensioning can not be obtained before the belt life indicator is all black (L of Figure 10) the belt must be replaced.

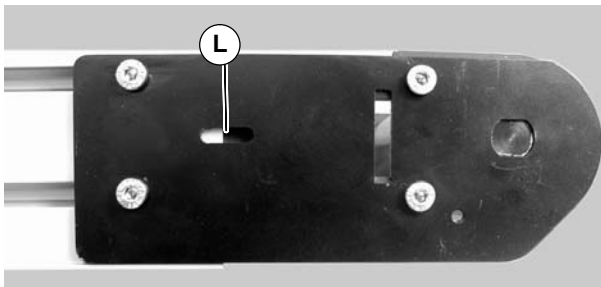


Figure 10

11. After adjusting proper tensioning, tighten the pinion locking screw (E of Figure 8) to 69 in-lbs (7.8 N-m), and tighten tail clamp bolts (H of Figure 8) on both sides of conveyor to 146 in-lb (16.5 N-m).

Mounting On Drive End of Conveyor

	DANGER
	<p>Use of end stop with high friction conveyor belt will cause severe injury.</p> <p>DO NOT use end stop with /03, /08, /55, /62, /64, or other high friction belts.</p>

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

NOTE: End stop is designed for parts 1/4" (6 mm) thick or larger.

1. Gather components (Figure 11)

Installation Component List

A	Transfer Plate
B	Spacer Bracket, Transfer Plate (2x)
C	M4 x 10mm Socket Head Screw (2x)
D	M5 x 10mm Socket Head Screw (2x)

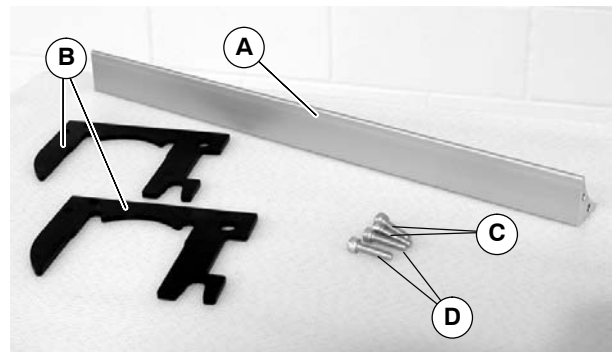


Figure 11

2. On tension end of the conveyor, identified by the pinion locking screw (E of Figure 12), push in head plate assembly (F): Loosen the pinion locking screw (E), adjust the pinion torque screw (G of Figure 13). On both sides of conveyor, loosen the two tail clamp bolts (H of Figure 12), and push head plate assembly (F) inward.

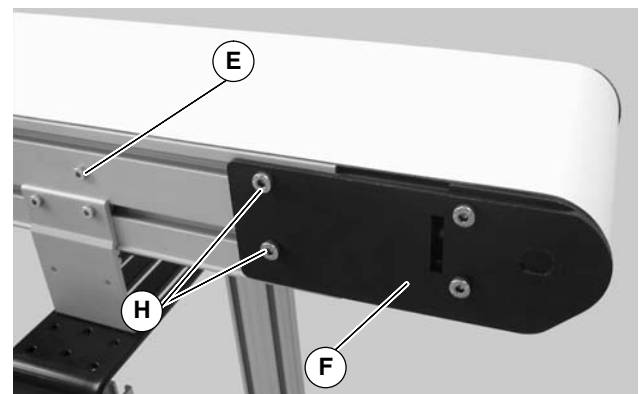


Figure 12

Installation

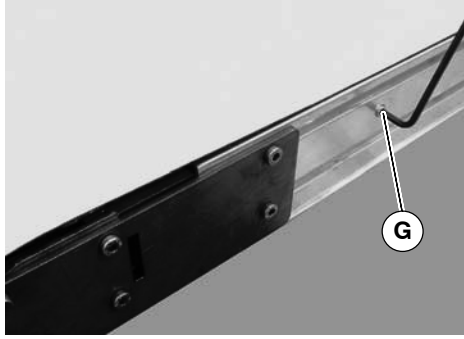


Figure 13

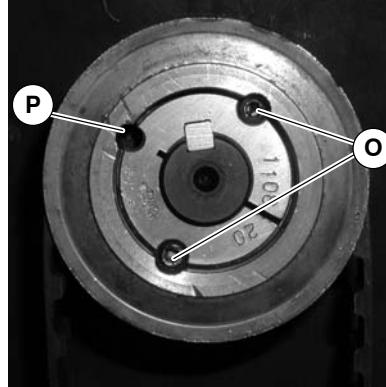


Figure 15

3. Remove the gearmotor mounting package. See instructions for your drive mounting package:

Step 4 – Top Mount Drive Package

Step 5 – Bottom Mount Drive Package

Step 6 – Side Mount Drive Package

Step 7 – No Drive Mount Package

4. Top Mount Drive Package

- a. Remove four (4) screws (M of Figure 14) and cover (N).

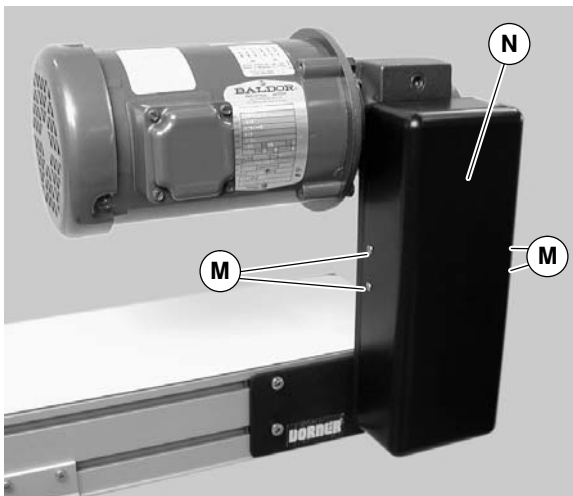


Figure 14

- b. Loosen taper set screws (O of Figure 15) on the driven pulley. Remove one set screw and insert in open hole (P). Tighten until pulley slides off drive shaft.

- c. Remove pulley (Q of Figure 16) and timing belt (R).

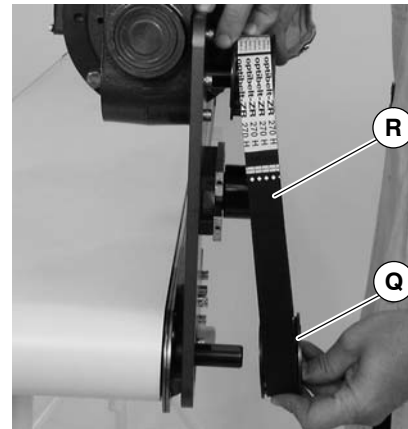


Figure 16

- d. Remove mounting screws (I, J and U of Figure 17) and remove drive package (S).

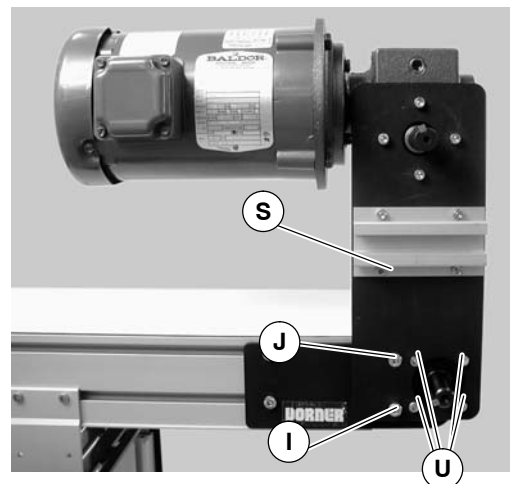


Figure 17

- e. Goto step 8 on page 8.

5. Bottom Mount Drive Package

- a. Remove four (4) screws (M of Figure 18) and cover (N).

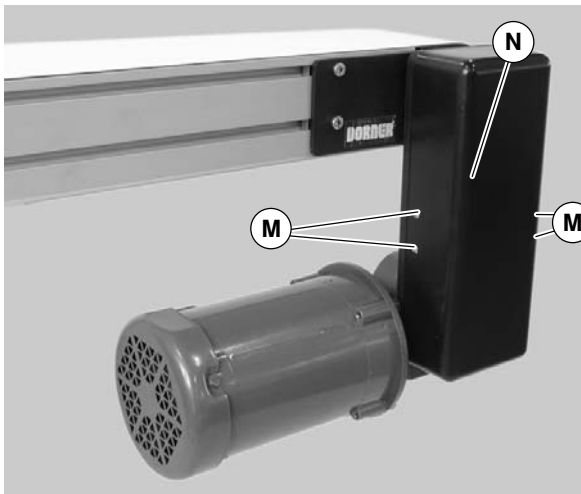


Figure 18

- b. Loosen taper set screws (O of Figure 19) on the driven pulley. Remove one set screw and insert in open hole (P). Tighten until pulley slides off drive shaft.

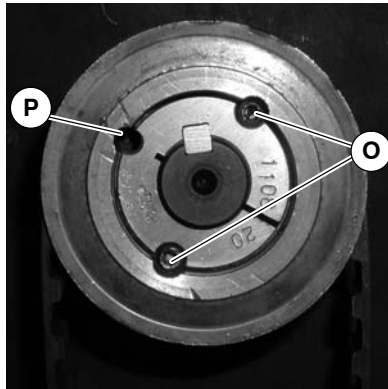


Figure 19

- c. Remove pulley (Q of Figure 20) and timing belt (R).

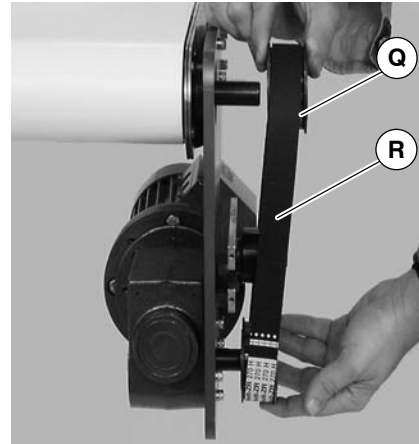


Figure 20

- d. Remove mounting screws (I, J and U of Figure 21) and remove drive package (S).

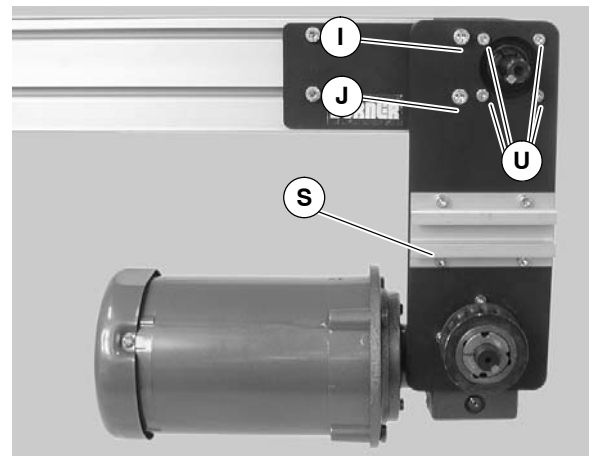


Figure 21

- e. Goto step 8 on page 8.

Installation

6. Side Mount Drive Package

- a. Remove anti-rotation pin (T of Figure 22), loosen four (4) screws (M) and rotate and remove the side drive assembly.

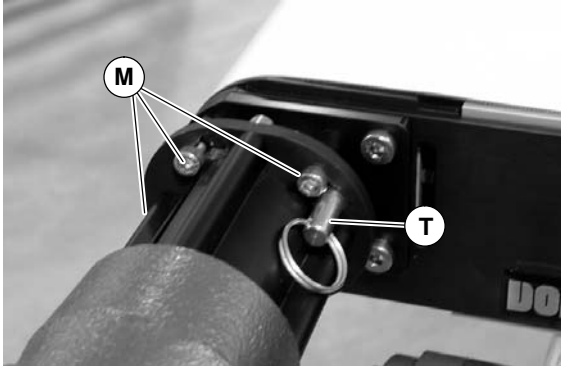


Figure 22

- b. Remove the four (4) screws (M of Figure 23) and two (2) screws (I and J)

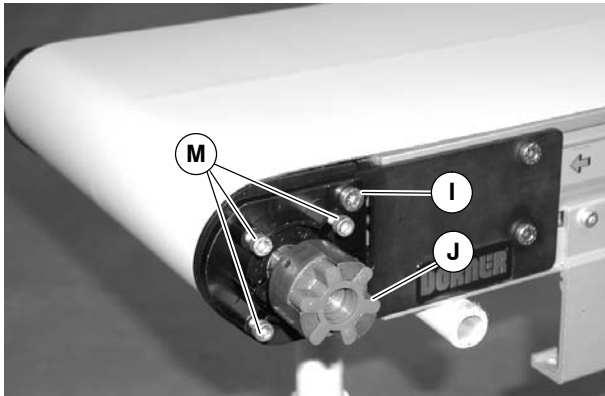


Figure 23

- c. Goto step 8 on page 8.

7. Loosen screws (I and U of Figure 24).

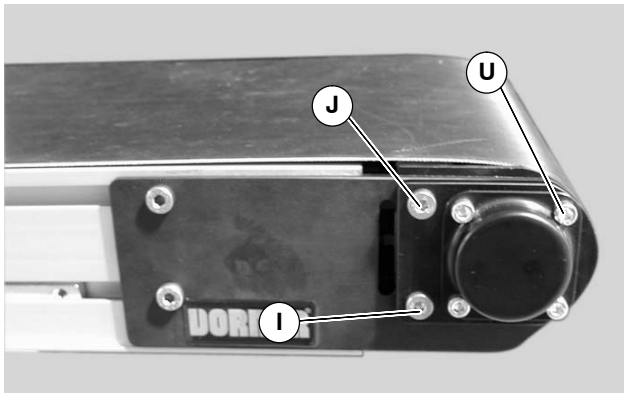


Figure 24

8. Remove screw (J of Figure 24). Remove existing spacer plates (K of Figure 25).



Figure 25

9. Replace with transfer plate spacer plates (B of Figure 26). Insert screw (J) hand tighten.

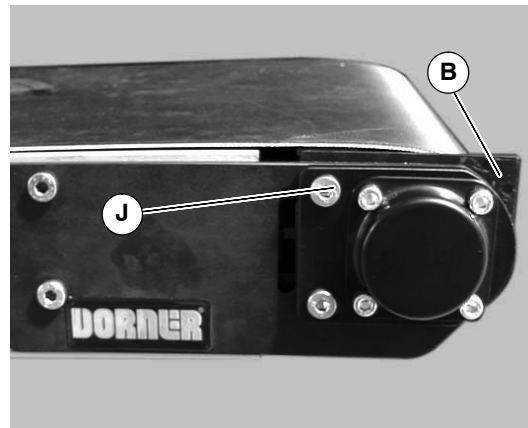


Figure 26

10. Place transfer plate support (B of Figure 27) on end of conveyor and attach with screws (C) and (D) on each side of conveyor. Tighten screws (C and D) to 50 in-lbs (5.6 N-m).

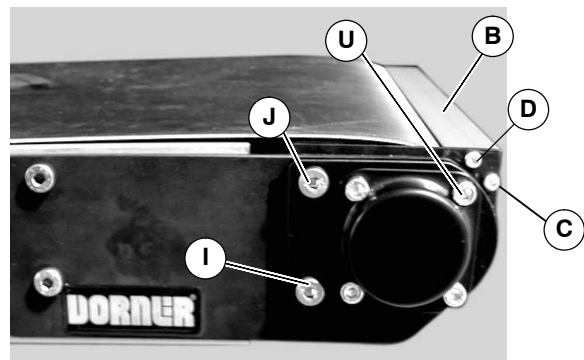


Figure 27

11. Tighten screws (I and J of Figure 27) to 146 in-lbs (16.5 N-m) and tighten screw (U) on side of conveyor opposite the drive.
12. Install the gearmotor mounting package. Reverse the instructions for your drive mounting packages—starting of page 6:

Step 4 – Top Mount Drive Package

Step 5 – Bottom Mount Drive Package

Step 6 – Side Mount Drive Package

Step 7 – No Drive Mount Package

NOTE: For conveyors longer than 20 ft (6096 mm) the belt tensioning procedure outlined below may be performed on both the Drive and Idler Ends of the conveyor.

13. On tension end of the conveyor, identified by the pinion locking screw (E of Figure 28), loosen the two tail clamp bolts (H), on both sides of conveyor.

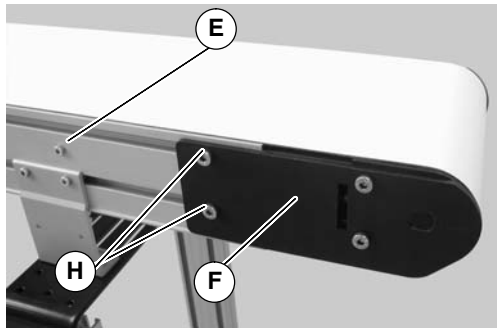


Figure 28

14. With 5mm hex wrench, hold pinion torque screw (G of Figure 29). Loosen the pinion locking screw (E of Figure 28) and turn the pinion torque screw (G) to extend head plate assembly.

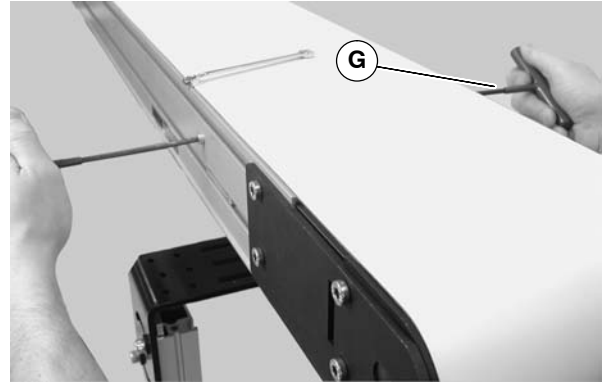


Figure 29

NOTE: On pinion gear, do not exceed a torque of 100 in-lb (11.3 N-m). Over tensioning the conveyor belt could cause excessive pulley bearing load and early failure.

15. Extend head plate assembly until proper tension in the belt is achieved. If proper tensioning can not be obtained before the belt life indicator is all black (L of Figure 30) the belt must be replaced.

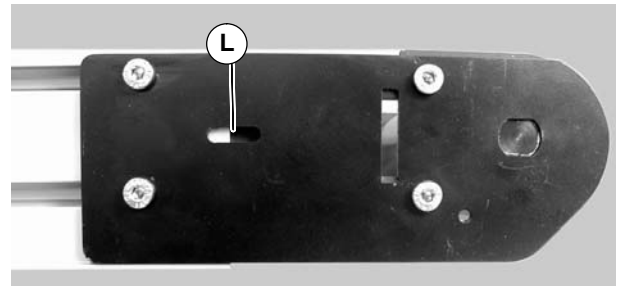


Figure 30

16. After adjusting proper tensioning, tighten the pinion locking screw (E of Figure 28) to 69 in-lbs (7.8 N-m), and tighten tail clamp bolts (H of Figure 8) on both sides of conveyor to 146 in-lb (16.5 N-m).

Preventive Maintenance & Adjustment

Required Tools

- Hex key wrenches:
3 mm
- Torque wrench

Cleaning



Periodically, remove two screws (C and D of Figure 31) on each side of conveyor and remove transfer plate (A).

Clean any debris from between plate and conveyor belt. Replace transfer plate (A). Tighten screws (C and D) to 50 in-lbs (5.6 N-m).

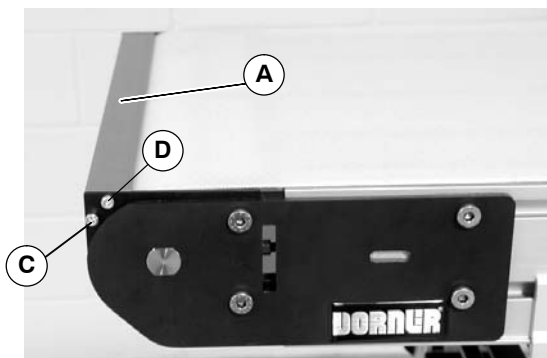


Figure 31

Service Parts

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

3" Pulley Transfer Plate

Item	Part Number	Part Description
1	301085	3" Transfer Plate Inside Spacer
2	3265WW	3" Pulley Transfer Plate
3	920410M	M4 x 10mm Socket Head Screw
4	920510M	M5 x 10mm Socket Head Screw

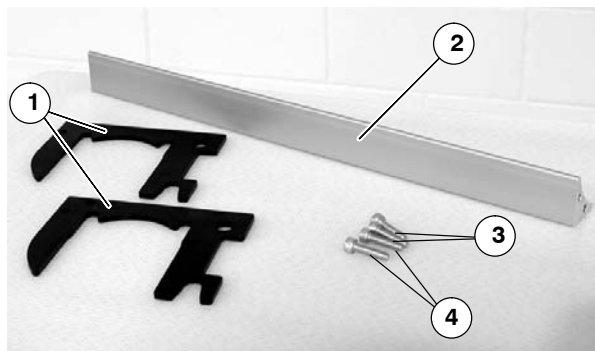


Figure 32

1" Pulley Transfer Tail Transfer Plate

Item	Part Number	Part Description
1	301086	3" Transfer Plate Inside Spacer
2	3264WW	3" Pulley Transfer Plate
3	920410M	M4 x 10mm Socket Head Screw

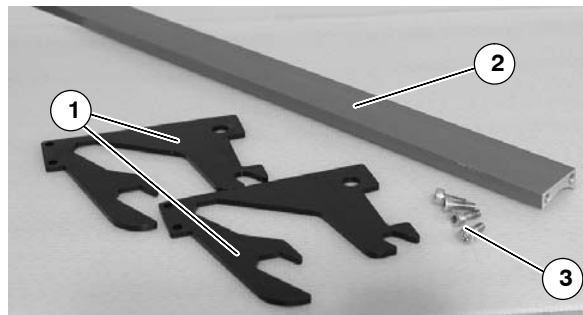


Figure 33

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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