

Installation, Maintenance & Parts Manual

LPZ Series Cleated and Sidewall Cleated Belt Conveyors

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Warnings – General Safety



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 in-١ structions for installation.

Dorner's Limited Warranty applies.

Dorner 3200 series conveyors are covered by Patent Numbers 5,156,260, and corresponding patents and patent applications in other countries.

PINCH

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 Gearmotor Mounting Package
- C Gearmotor
- D Mounting Brackets
- E Lower Knuckle
- F Upper Knuckle
- G Support Stand
- H Drive End
- I Idler/Tension End



Figure 1

Specifications



Figure 2

Specifications

Specifications:

Conveyor Width Reference (WW)	08	10	12	18	24
Conveyor Belt Width	8 (203mm)	10 (254mm)	12 (305mm)	18 (457mm)	24 (609mm)
Conveyor Startup Torque*	10 in-lb (1.1Nm)	13 in-lb (1.5Nm)	15 in-lb (1.7Nm)	25 in-lb (2.8Nm)	0 in-lb (3.9Nm)
Conveyor Section Length Reference (LLLL)	0200 to 1300 in 0001 increments (2 ft to 13 ft in 0.12" increments)				
Total Conveyor Length	4 ft (1219mm) to 25 ft (7620mm) in 0.12" (0.31mm) increments				
Belt Travel	9.7 [°] (246 mm) per revolution of pulley			oulley	
Maximum Belt Speed*	275 ft/minute (84 m/minute)				
Belt Takeup	1.62" (41 mm) of Belt Takeup			р	

NOTE: Maximum conveyor loads based on:

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

NOTE: Refer to the table provided for maximum recommended tension pinion torque values and maximum conveyor loads for different angles. Choose the appropriate value which relates to your particular requirements.

	Standard Cleated Belt				Sidewall Cleated Belt			
Transition Angle	Tension Pinion Torque		Maximum Conveyor Load		Tension Pinion Torque		Maximum Conveyor Load	
	in-lb	Nm	lb	kg	in-lb	Nm	lb	kg
25° *	25	2.8	25	11.3	50	5.6	75	34
30° *	35	3.9	50	22.7	60	6.8	100	45.4
35°	50	5.6	75	34	70	7.9	100	45.4
40°	75	8.5	100	45.4	80	9.0	100	45.4
45°	75	8.5	100	45.4	80	9.0	100	45.4
50°	75	8.5	100	45.4	80	9.0	100	45.4
55°	75	8.5	100	45.4	80	9.0	100	45.4
60°	75	8.5	100	45.4	80	9.0	100	45.4

* Not available on 18" & 24" (457 & 610 mm) width conveyors

Installation



WARNING

LPZ Series Conveyors are not reversible. Reversing creates pinch points which can cause severe injury. DO NOT REVERSE LPZ SE-RIES CONVEYORS.

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



Required Tools

- Hex-key wrenches: 4 mm, 5 mm
- Level
- I Torque wrench
- 8mm hex, open end wrench

Recommended Installation Sequence

- Install support stands (see accessory instructions)
- Assemble conveyor (if required)
- Attach mounting brackets to conveyor (see page 6 for instructions)
- Adjust angle (see page 14 for instructions)
- Attach conveyor to stands (see "Mounting Brackets" section on page)
- Install return rollers on conveyor (see page 6 for instructions)
- Mount gearmotor mounting package (see accessory instructions)
- Attach guides/accessories (see page 32 through 42 of "Service Parts" section for details)

Installation

Conveyors Up to 13 ft (3962 mm)

No assembly is required. Install mounting brackets and return rollers. Refer to "Mounting Brackets" on page 6 and "Return Rollers" on page 6.

Conveyors Longer Than 13 ft (3962 mm)

1. Locate components (see Figure 4).

	Installation Component List
E	Lower knuckle
F	Upper knuckle
Р	Conveyor frame with upper knuckle
Q	Conveyor frame with idler end and lower knuckle
R	Belt
9	Conveyor frame with lower knuckle

S Conveyor frame with lower knuckle



On tension end of the conveyor, identified by the pinion locking screw (T of Figure 5), push in head plate assembly (V): Loosen the pinion locking screw (T), adjust the pinion torque screw (W of Figure 6). On both sides of conveyor, loosen the two tail clamp bolts (U of Figure 5), and push head plate assembly (V) inward.



Figure 5



Figure 6

3. Roll out conveyor belt (R of Figure 7). Loosen (4) screws (X) on both sides of knuckle (E). Slide frame (Q) into knuckle (E). Tighten screws (X) to 60 in-lb (7 N–m) on both sides of conveyor.



4. Slide frame (Q of Figure 8) into lower knuckle (E). Tighten screws (X) to 60 in-lb (7 N–m) on both sides of conveyor.



5. Join additional conveyor sections if necessary and install connector brackets (Y of Figure 9) or connector/mount brackets (YA) and screws (Z) on both sides as indicated. Tighten screws to 60 in-lb (7 Nm).

Installation



Figure 9

6. Slide belt (R of Figure 10) over assembled conveyor sections (AA).



- 7. Tension conveyor belt, refer to "Conveyor Belt Tensioning" on page 12.
- 8. Install mounting brackets and return rollers. Refer to "Mounting Brackets" on page 6 and "Return Roller" on page 6.
- 9. Conveyors are shipped flat. Adjust conveyor angle. See "Conveyor Angle Adjustment" on page 14.

Mounting Brackets

1. Locate brackets. Exploded views shown in Figure 11.



Mounting Brackets for Cleated Belt Conveyor Figure 11

2. Remove screws (AB & AC of Figure 11), washers (AD), nuts (AE) and T-bars (AF) from brackets.

3. Insert T-bars (AF of Figure 11) into conveyor side slots (AF of Figure 12). Fasten brackets (AG of Figure 12) to conveyor with mounting screws (AB).



Figure 12

- 4. Fasten brackets to support stand with mounting screws (AC of Figure 12), washers (AD) and nuts (AE).
- 5. Tighten screws (AB & AC of Figure 12) to 60 in-lb (7 Nm).

Return Rollers

1. Locate return rollers. Exploded views shown in Figures 13.



- Figure 13
- 2. Remove screws (AH of Figure 13) and clips (AI) from roller assembly.
- **3.** Install roller assemblies (AJ of Figure 14) as shown. Tighten screws (AH) to 60 in-lb (7 Nm).



Figure 14

Required Tools

Standard Tools

- Hex-key wrenches:2.5 mm, 4 mm, 5 mm
- 1 8mm hex, open end wrench

Checklist

- Keep service parts on hand (see "Service Parts" section for recommendations)
- Keep supply of belt cleaner (part # 625619)
- Clean entire conveyor and knurled pulley while disassembled
- Replace worn or damaged parts

Lubrication

No lubrication is required. Replace bearings if worn.

Maintaining Conveyor Belt

Troubleshooting

Inspect conveyor belt for:

- Surface cuts or wear
- Stalling or slipping
- Damage to V-guide

Surface cuts and wear indicate:

- Sharp or heavy parts impacting belt
- Jammed parts
- Improperly installed bottom wipers (if installed)
- Accumulated dirt in wipers (if installed)
- 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

Damage to V-guide indicates:

- Twisted or damaged conveyor frame
- Dirt impacted on pulleys
- Excessive or improper side loading

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 # 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.

Conveyor Belt Replacement



Conveyor Belt Replacement Sequence

- Release Tension
- Remove old conveyor belt:
 - -Conveyor without Stands or Gearmotor Mounting Package
 - -Conveyor with Stands and Gearmotor Mounting Package
- Install new conveyor belt
- Tension conveyor belt

Belt Removal for Conveyor Without Stands or Gearmotor Mounting Package

1. If equipped, remove return rollers and guiding and accessories from one side of conveyor.

On tension end of the conveyor, identified by the pinion locking screw (T of Figure 15), push in head plate assembly (V): Loosen the pinion locking screw (T), adjust the pinion torque screw (W of Figure 16). On both sides of conveyor, loosen the two tail clamp bolts (U of Figure 15), and push head plate assembly (V) inward.



Figure 15



Figure 16

3. If equipped with a lower knuckle, remove screws (AK of Figure 17) and remove lower knuckle return roller assembly (AL) on both sides of conveyor, note the position of the meshing teeth.



4. If equipped with an upper knuckle, remove screws (AM of Figure 18) and remove guard (AN) on both sides of knuckle.



Figure 18

5. Remove screws (AO of Figure 19) and remove roller bearing (AP).



Figure 19

6. Remove belt (AQ of Figure 20) from conveyor.



Figure 20

Belt Removal for Conveyor With Stands and Gearmotor Mounting Package



1. Place temporary support stands (AR of Figure 21) at both ends of the conveyor. Place an additional support stand under the drive motor (AS), if equipped. See WARNING.





- **2.** Remove mounting brackets (AT of Figure 21) from one side of conveyor. (Reverse steps 3 & 4 of "Mounting Brackets" section on page 6).
- **3.** If equipped, remove return rollers, guiding and accessories from side opposite drive cover.
- **4.** On tension end of the conveyor, identified by the pinion locking screw (T of Figure 22), push in head plate assembly (V): Loosen the pinion locking screw (T), adjust the pinion torque screw (W of Figure 23). On both sides of conveyor, loosen the two tail clamp

bolts (U of Figure 22), and push head plate assembly (V) inward.



Figure 22



Figure 23

5. If equipped, remove screws (AK of Figure 24) and remove lower knuckle return roller assembly (AL) on both sides of conveyor, note the position of the meshing teeth.



Figure 24

6. If equipped, remove screws (AM of Figure 25) on both sides of knuckle and remove guard (AN).



Figure 25

7. Remove screws (AO of Figure 26) and remove roller bearing (AP).



Figure 26

8. Remove belt (AQ of Figure 27) from conveyor.



Figure 27

Belt Installation for Conveyor without Stands or **Gearmotor Mounting Package**

1. Orient belt so splice leading fingers (AU of Figure 28) point in the direction of belt travel as identified by the conveyor directional label (AV).



Figure 28

- 2. Slide belt onto the conveyor frame assembly.
- 3. If equipped, install return roller bearing (AP of Figure 29) into knuckle plate (AW) using screws (AO).



4. Install knuckle guard (AN of Figure 30) on both sides of knuckle with screws (AM). Tighten screws to 25 in-lbs (3 N-m).



5. If equipped, install lower knuckle return roller assembly (AK of Figure 31) with screws (AL) on

both sides of knuckle, note the position of the meshing teeth.



- **6.** Tension belt. Refer to "Conveyor Belt Tensioning" on page 12.
- 7. If equipped, install return rollers and guiding.

Belt Installation for Conveyor with Stands and Gearmotor Mounting Package





- **1.** Ensure temporary support stands (AR of Figure 21) are placed at both ends of the conveyor. Place an additional support stand under the drive motor (AS), if equipped. See WARNING.
- **2.** Orient belt so splice leading fingers (AU of Figure 28) point in the direction of belt travel as identified by the conveyor directional label (AV).
- **3.** Install belt (AQ of Figure 32) on conveyor. Lift conveyor slightly to avoid pinching belt on temporary support stands.



- **4.** Re-install conveyor mounting brackets. Refer "Mounting Brackets" on page 6, steps 3 through 5.
- **5.** If equipped, install return roller bearing (AP of Figure 33) into knuckle plate (AW) using screws (AO).



Figure 33

6. Install knuckle guard (AN of Figure 34) on both sides of knuckle with screws (AM). Tighten screws to 25 in–lbs (3 N–m).



Figure 34

7. If equipped, install lower knuckle return roller assembly (AL of Figure 35). To properly align teeth, ensure the first gear of the pinion plate (AY of Figure 36) matches with the first pocket of the rack plate

(AZ). Secure with screws (AK of Figure 35) on both sides of the conveyor.



Figure 35



Figure 36

- **8.** Tension belt. Refer to "Conveyor Belt Tensioning" on page 12.
- 9. If equipped, re-install return rollers and guiding.

Conveyor Belt Tensioning



1. On tension end of the conveyor, identified by the pinion locking screw (T of Figure 37), loosen the two tail clamp bolts(U), on both sides of conveyor.



2. With 5mm hex wrench, hold pinion torque screw (W of Figure 38). Loosen the pinion locking screw (T of Figure 37) and turn the pinion torque screw(W) to extend head plate assembly.

NOTE: Refer to the table provided for maximum recommended tension pinion torque values and maximum conveyor loads for different angles. Choose the appropriate value which relates to your particular requirements.

	Standard Cleated Belt				Sidewall Cleated Belt			
Transition Angle	Tension Pinion Torque		Maximum Conveyor Load		Tension Pinion Torque		Maximum Conveyor Load	
	in-lb	Nm	lb	kg	in-lb	Nm	lb	kg
25° *	25	2.8	25	11.3	50	5.6	75	34
30° *	35	3.9	50	22.7	60	6.8	100	45.4
35°	50	5.6	75	34	70	7.9	100	45.4
40°	75	8.5	100	45.4	80	9.0	100	45.4
45°	75	8.5	100	45.4	80	9.0	100	45.4
50°	75	8.5	100	45.4	80	9.0	100	45.4
55°	75	8.5	100	45.4	80	9.0	100	45.4
60°	75	8.5	100	45.4	80	9.0	100	45.4



* Not available on 18" & 24" (457 & 610 mm) width conveyors

NOTE: Bowing of the belt (BA of Figure 39) may occur if excessive tension is applied to the belt. Do not over tension the belt.



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.

3. Extend head plate assembly until proper tension in the belt is achived. If proper tensioning can not be obtained before the belt life indicator is all black (BB of Figure 40) the belt must be replaced.



- **4.** After adjusting proper tensioning, tighten the pinion locking screw (T of Figure 37) to 69 in–lbs (7.8
- N–m), and tighten tail clamp bolts (U of Figure 37) on both sides of conveyor to 146 in-lb (16.5 N–m).
- **5.** If belt tracking is neccesary, refer to "Conveyor Belt Tracking" on page 13.

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 assemblies.

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

- 1. Ensure tensioning racks are extended and touching the idler pulley headplates: loosen the pinion locking screw (T of Figure 37) and rotate the pinion torque screw (W of Figure 38) clockwise until contact with the head plate is made, then tighten the pinion locking screw (T) to 69 in–lbs (7.8 N–m)
- 2. On the side of conveyor to be adjusted, loosen two (2) tail clamp screws(U of Figure 41).



Figure 41

3. With the conveyor running, use wrench (BC of Figure 42) to rotate the tracking screw (BD of Figure 43) in small increments until the belt tracks in the center of the conveyor.



Figure 42



Figure 43

4. Re-tighten the head plate fastening screws (U) with a 5 mm hex-key wrench to 100 in-lb (12 Nm).



Figure 44

Conveyor Angle Adjustment

Nose Over Angle Adjustment





NOTE: If just changing the angle of an installed conveyor skip to step 2.

NOTE: .Special-colored "0° Angle" screws must be removed when making the initial adjustment from (or to) the (0°) shipping position. When sections of conveyor are flat, the "0° Angle" screw locks-out and prevents operation between 0° and 25°. Special-colored "0° Angle" screws need only to be loosened, when making the "transition angle" (see table on page 12) adjustments. LPZ conveyors should never be operated with the "0° Angle" screws removed.

1. Conveyor is shipped from factory locked in the flat position, to unlock conveyor knuckle remove the gold screw (BE of Figure 45) on both sides of the conveyor.



2. Place temporary support (BF of Figure 46) under conveyor sections.



3. Loosen screws (BG of Figure 47) on both sides of knuckle.



Figure 47

4. Move conveyor to desired angle as indicated by angle label (BH of Figure 48).



Figure 48

5. Tighten screws (BG of Figure 47) on both sides of knuckle to 100 in–lbs (12 N–m). If aplicable, replace the gold locking screw (BE of Figure 45).

Horizontal to Incline Angle Adjustment



WARNING

Removing mounting brackets or adjustment screws without support under gearmotor and conveyor will cause conveyor to tip or drop, causing severe injury.

PROVIDE SUPPORT UNDER-NEATH THE GEARMOTOR WHEN ADJUSTING THE CON-VEYOR ANGLE



WARNING

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

NOTE: If just changing the angle of an installed conveyor skip to step 2.

NOTE: .Special-colored "0° Angle" screws must be removed when making the initial adjustment from (or to) the (0°) shipping position. When sections of conveyor are flat, the "0° Angle" screw locks-out and prevents operation between 0° and 25°. Special-colored "0° Angle" screws need only to be loosened, when making the "transition angle" (see table on page 12) adjustments. LPZ conveyors should never be operated with the "0° Angle" screws removed.

- **1.** Conveyor is shipped from factory locked in the flat position, to unlock conveyor knuckle remove the gold screw (BE of Figure 45) on both sides of the conveyor.
- **2.** Place temporary support (BF of Figure 49) under conveyor sections.



3. Loosen screws (AK and BI of Figure 50) on both sides of knuckle.



Figure 50

4. Move conveyor to desired angle as indicated by angle label (BH of Figure 48).



Figure 51

5. Tighten screws (BG of Figure 47) on both sides of knuckle to 100 in–lbs (12 N–m).



Remove conveyor belt to access pulley(s). See "Conveyor Belt Replacement" on page 7. Remove the desired pulley following the corresponding instructions below:

- ► **A** Idler Pulley Removal
- **B** Drive Pulley Removal
- **C** Upper Knuckle Idler Pulley Removal
- **D** Lower Knuckle Idler Pulley Removal
- **E** Knuckle Return Roller Removal

A – Idler Pulley Removal

1. Temporarily support the idler pulley.



Figure 52

2. On one side of conveyor, loosen the two (2) back fastening screws (U of Figure 53) and remove two (2) front fastening screws (BJ).





Pulley Removal

3. Pull back the outer headplate (V of Figure 54) and remove the inner spacer (BK).



Figure 54

6. Slide the shaft assembly (BO of Figure 57) out of the pulley (BL).



Figure 57

4. Slide the idler pulley assembly (BL of Figure 55) out of the headplate on the opposite side.



Figure 55

5. Remove the pulley shaft assembly: remove the clip ring (BM of Figure 56) and washer (BN) from one side of the pulley assembly.



Figure 56

B – Drive Pulley Removal



- Remove the gearmotor mounting package: *a* – Top and Bottom Mount Drives *b* – Side Mount Drives
- **a**. Top and Bottom Mount Drives
- 1) Use a temporary support (BP of Figure 58)to support Gearmotor.



2) Remove four (4) screws (BQ of Figure 59) and remove cover (BR).



Figure 59

3) Loosen tensioner (BS of Figure 60).



Figure 60

 Remove taper-lock screws (BU of Figure 61) on the driven pulley (BT of Figure 60). Insert one (1) of taper lock screws (BU of Figure 61) in remaing hole (BV). Tighten screw (BU) until pulley is loose. Remove pulley, taper hub assembly and timing belt.





5) Remove four (4) M5 mounting screws (BW of Figure 62) and two (2) M8 mounting screws (BX).



Figure 62

- 6) Remove gearmotor and mounting plate assembly (BY of Figure 62).
- **b**. Side Mount Drives
- 1) Temporarily support Gearmotor
- 2) Loosen the four (4) lock screw (BZ of Figure 63).



Figure 63

3) Rotate and remove the grear motor and guard assembly (CA of Figure 64).



4) Remove the four (4) lock screws (BZ of Figure 65) and the short side drive guard (CB).



Figure 65 **2.** Temporarily support the drive pulley.



Figure 66

3. Remove four shaft cover screws (CC of Figure 67). Remove the shaft cover (CD).



Figure 67

4. Loosen the bearing collar set screw (CE of Figure 68) and remove bearing collar (CF). Repeat on drive shaft side of pulley (CE and CF of Figure 69).







Figure 69

5. On the drive headplate, remove two (2) screws (U of Figure 70).



Figure 70

6. Remove the outer headplate assembly (CG of Figure 71), and inner spacer (BK).



Figure 71

7. Slide the drive pulley (CH of Figure 72) out of the headplate on the opposite side.



Figure 72

C – Upper Knuckle Idler Pulley Removal

- **1.** Ensure knuckle return roller and guard are removed, see "Knuckle Return Roller Removal" on page 22.
- **2.** Temporarily support the knuckle idler pulley.



Figure 73

3. On one side of knuckle, remove screws (CI of Figure



- Figure 76
- 6. Slide the shaft assembly (BO of Figure 57) out of the pulley (CK).
- 74) and knuckle plate assembly (CJ).

Figure 74

4. Slide the idler pulley assembly (CK of Figure 75) out of the knuckle plate on the opposite side.



Figure 75

5. Remove the pulley shaft assembly: remove the clip ring (BM of Figure 76) and washer (BN) from one side of the pulley assembly.



Figure 77

D – Lower Knuckle Idler Pulley Removal

1. Remove screws (AK of Figure 78) and remove lower knuckle return roller assembly (AL) on both sides of knuckle, note the position of the meshing teeth.



Figure 78

2. Temporarily support the knuckle idler pulley.



Figure 79

3. On one side of knuckle, remove screws (CL of Figure 74) and knuckle plate assembly (CM).



Figure 80

4. Slide the idler pulley assembly (CK of Figure 75) out of the knuckle plate on the opposite side.



5. Remove the pulley shaft assembly: remove the clip ring (BM of Figure 76) and washer (BN) from one side of the pulley assembly.



Figure 82

6. Slide the shaft assembly (BO of Figure 57) out of the pulley (CK).



Figure 83

E – Knuckle Return Roller Removal

1. Remove screws (AM of Figure 84) on both sides of knuckle and remove guard (AN).





2. Remove screws (AO of Figure 85) and remove roller bearing (AP).



Figure 85



Figure 86

Replacement

- **1.** Inspect bearing housing bearing surface. If worn or damaged, replace. See "Service Parts" on page 26.
- **2.** Insert bearing (CN of Figure 87) into housing slot (CO). Locate anti–rotation nub (CP) to align with slot (CQ), and twist bearing into housing.



Figure 87

C – Nose Over Knuckle Idler Bearing Replacement The bearings in a 3200 Series Nose Over Knuckle Idler Pulley can not be removed. Replace the entire pulley assembly when worn.

D – Horizontal to Incline Knuckle Idler Bearing Replacement

The bearings in a 3200 Series Nose Over Knuckle Idler Pulley can not be removed. Replace the entire pulley assembly when worn.

Bearing Replacement



Exposed moving parts can cause severe injury. LOCK OUT POWER before

removing guards or performing maintenance.

- ► A Idler Bearing
- **B** Drive Bearing
- **C** Nose Over Knuckle Idler Bearing
- D Horizontal to Incline Knuckle Idler Bearing
- **E** Knuckle Return Roller Bearing

A – Idler Bearing Replacement

The bearings in a 3200 Series Idler Pulley can not be removed. Replace the entire pulley assembly when worn.

B – Drive Bearing Removal and Replacement

Removal

1. Turn bearing (CN of Figure 86) to align with slots (CO) in bearing housing. Then remove bearing.

E – Knuckle Return Roller Bearing Replacement

1. Remove screws (AM of Figure 25) on the worn bearing side of the knuckle and remove guard (AN).



Figure 88

2. Remove screws (AO of Figure 26) and remove worn roller bearing (AP).



Figure 89

- **3.** Replace worn bearing with new bearing, use screws (AO of Figure 26) to attach new bearing.
- **4.** Replace guard (AN of Figure 25) and secure with screws (AM) on both sides of knuckle and remove guard.

Pulley Replacement

Idler Pulley

To replace the idler pulley, reverse the "Idler Pulley Removal" proceedure on page 16.

Drive Pulley

To replace the drive pulley, reverse the "Drive Pulley Removal" proceedure on page 17.

Knuckle Pulley

To replace the knuckle pulley, reverse the "Knuckle Pulley Removal" proceedure on page 17.

Knuckle Return Roller

To replace the knuckle return roller, reverse the "Knuckle Return Roller Removal" proceedure on page 22.

Notes

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

Drive End Tail Assembly



Item	Part Number	Description
1	300139	Shaft Cover
2	300885	Bearing Retainer
3	301048	Drive Tail Cover Plate
4	301083	3" Inner Tail Plate
5	301088	Tail Bar Clamp
6	301196	Hex Tension Tracking Shaft
7	3202 <u>WW</u>	Tail Articulation Bar
8	3226 <u>WW</u>	Drive Spindle Assy w / Lagging

9	802–135	D-Lok Bearing	
10	807–1125	Groove Pin	
11	807–1151	Retaining Ring	
12	807–1152	Hex Head Cap Screw M6 x 20mm	
13	920612M	Socket Head Screw M6 x 12mm	
14	920893M	Low Head Socket Screw M8x16mm	
15	920895M	Low Head Socket Screw M8x25mm	
\underline{WW} = Conveyor width reference: 08 – 24 in 02 increments			

Idler End Assembly



Item	Part Number	Description
1	301049	Idler Cover Plate
2	301083	Inner 3" Tail Plate
3	301088	Tail Bar Clamp
4	3282 <u>WW</u>	Idler Spindle Wand Assembly
5	301196	Hex Tension Tracking Shaft
6	3202 <u>WW</u>	Tail Articulation Bar
7	3289 <u>WW</u>	3" Idler Pulley

8	605280P	Hard Washer		
9	807–1125	Groove Pin		
10	807–1151	Tracking Shaft Retaining Ring		
11	807–1152	Hex Head Cap Screw M6 x 20mm		
12	915–235	Stub Shaft Retaining Ring		
13	920893M	Low Head Socket Screw M8 x 16mm		
<u>WW</u> =	\underline{WW} = Conveyor width reference: 08 – 24 in 02 increments			

Horizontal to Incline Knuckle Assembly



Item	Part Number	Description
1	300538	Top Roller Moving Pointer Gear
2	301147	Bearing Cover and Top Sidewall Guard (sidewall cleated belts)
	301149	Bearing Cover Offset Guide (cleated belts)
3	301148	Roller Cover Plate (sidewall cleated belts)
	301169	Roller Cover Plate (cleated belts)
4	301155	Short LPZ Cover Plate
5	301157	Lower LPZ Outside Plate
6	301159	Lower LPZ Inside Plate
7	301160	Pivot LPZ Inside Plate
8	301168	Slot Cover Plate Assy
9	301170	LPZ Cover Mounting Block
10	301171	Top Roller Cleated Rack Plate
11	301174	0–60 LH Angle Scale Label

12	301175	0–60 RH Angle Scale Label	
13	301280	Yellow Chrome Special Screw	
14	3276 <u>WW</u>	Belt Support Rail Assy	
15	3289 <u>WW</u>	LPZ Idler Pulley Assy	
16	300150M	Tee Bar, Drop In 1.88"	
17	300495M	Axle Bearing Assy	
18	300536M	Tee Bar, Drop In 2.12"	
19	920592M	Socket Low Head Screw M5 x 12mm	
20	920612M	Socket Head Screw M6 x 12mm	
21	920684M	Flanged Socket Head Screw M6 x 20mm	
22	920692M	Socket Head Screw M6 x 12mm	
23	930512M	Flat Head Screw M5 x 12mm	
24	3283 <u>WW</u>	Shaft Assembly for 3" Idler	
25	915–235	Retaining Ring	
\underline{WW} = Conveyor width reference: 08 – 24 in 02 increments			

Nose Over Knuckle Assembly



Item	Part Number	Description	
1	300657	Slots Pointer Cover Disc	
2	301155	Short LPZ Cover Plate	
3	301160	LPZ Inside Pivot Plate	
4	301161	Upper Outside Plate – Cleated	
5	301280	Special Screw – Yellow Head	
6	301358	Dowel Pin 3/8" 2x (18" to 24" Wide Only)	
7	322501	Bottom Bearing Cover – Cleated	
8	3254 <u>WW</u>	Return Roller (18" to 24" Wide Only)	
9	3276 <u>WW</u>	Belt Support Rail Assy	
10	3289 <u>WW</u>	LPZ-CD Idler Pulley Assy	
11	300150M	Drop In Tee Bar	

12	300160P	Nylon Washer 2x (18" to 24" Wide Only)			
13	300495M	Axle/Bearing Assy			
14	807–1283	Hinged Screw Cover			
15	901–110	Socket Head Screw #10-32 x .62"			
16	920492M	Socket Low Head Screw M4 x 12mm			
17	920516M	Socket Head Screw M5 x 16mm			
18	920612M	2M Socket Head Screw M6 x 12mm			
19	920692M	Socket Low Head Screw M6 x 12mm			
20	920694M	Socket Low Head Screw M6 x 20mm			
21	3283 <u>WW</u>	Idler Shaft Assembly			
22	915–235	Retaining Ring			
WW	= Conveyor widt	h reference: 08 – 24 in 02 increments			

Frame Assembly



Item	Part Number	Description				
1	240420	Rack Gear				
2	301091	Pinion Bearing				
3	605279P	Washer				
4	920483M	Flange Socket Screw M4 x 16mm				
5	920616M	Socket Head Screw M6 x 16mm				
6	920693M	Low Head Socket Screw M6 x 16mm				
7	3245 <u>WW</u>	245 <u>WW</u> Cross Support Rail				
8	301041– <u>LLLLL</u>	RH Side Rail				
9	301042– <u>LLLLL</u>	LH Side Rail				
10	3229 <u>WW</u>	Pinion				
11	11 Bed Plate Rail					
	<u>WW</u> = Conveyor width reference: 04 – 48 in 02 increments <u>LLLLL</u> = Frame Length (see Bed Plate & Frame Formulas)					

Item 11: Bed Plate Rail				
Width Part Number				
1.75" (mm) 300887– <u>LLLLL</u>				
2" (54mm) 300888– <u>LLLLL</u>				
4" (102mm) 300889– <u>LLLLL</u>				
6" (152mm) 300890– <u>LLLLL</u>				
LLLLL = Bed Plate Length (see Bed Plate & Frame Formulas)				

Bed Plate and Frame Formulas

Bed Plate LLLLL = Frame LLLLL - 00013

Frame <u>LLLLL</u>	=	Conveyor Length LLLL X 12 – Tail Adder # of Sections of Conveyor
Tail Adder	=	00600 for each Tension End 00425 for each Non-Tension End 00600 for each Knuckle Attachment

Width						Bed F	Plate Conf	figuration	on				
4"							1.75"						
6"							4"						
8"							6"						
10"						2"	4"	2"					
12"						2"	6"	2"					
14"						4"	4"	4"					
16"						4"	6"	4"					
18"						6"	4"	6"					
20"						6"	6"	6"					
22"					4"	4"	4"	4"	4"				
24"					4"	4"	6"	4"	4"				
26"	1				6"	4"	4"	4"	6"				
28"	1				6"	4"	6"	4"	6"				
30"					6"	6"	4"	6"	6"				
32"					6"	6"	6"	6"	6"				
34"				4"	4"	6"	4"	6"	4"	4"			
36"				4"	4"	6"	6"	6"	4"	4"			
38"				4"	6"	6"	4"	6"	6"	4"			
40"				4"	6"	6"	6"	6"	6"	4"			
42"				6"	6"	6"	4"	6"	6"	6"			
44"				6"	6"	6"	6"	6"	6"	6"			
46"			4"	4"	6"	6"	4"	6"	6"	4"	4"		
48"			4"	4"	6"	6"	6"	6"	6"	4"	4"		
50"			4"	6"	6"	6"	4"	6"	6"	6"	4"		
52"			4"	6"	6"	6"	6"	6"	6"	6"	4"		
54"			6"	6"	6"	6"	4"	6"	6"	6"	6"		
56"			6"	6"	6"	6"	6"	6"	6"	6"	6"		
58"		4"	4"	6"	6"	6"	4"	6"	6"	6"	4"	4"	
60"		4"	4"	6"	6"	6"	6"	6"	6"	6"	4"	4"	
62"		4"	6"	6"	6"	6"	4"	6"	6"	6"	6"	4"	
64"		4"	6"	6"	6"	6"	6"	6"	6"	6"	6"	4"	
66"		6"	6"	6"	6"	6"	4"	6"	6"	6"	6"	6"	
68"		6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	
70"	4"	4"	6"	6"	6"	6"	4"	6"	6"	6"	6"	4"	4"
72"	4"	4"	6"	6"	6"	6"	6"	6"	6"	6"	6"	4"	4"

Cleated Belt Conveyor Configurations



Section and Length Determination



Z Frame – Section L1



Item	Part Number	Description
1	200121	Guide Retaining Clip

2	639971M	Single Drop-in Tee Bar
3	920694M	Socket Head Screw M6 x 20mm

Inclining Belt Travel*

Section L1 Length – <u>LLLL</u>	I	п	ш	IV
0200	382227 (382207 with 45 deg added)	382228 (382208 with 45 deg added)	No Guiding Section	No Guiding Section
	382207-LLLLL	382208-LLLLL	382213-LLLLL	382214-LLLLL
0201 – 0399	LLLLL = (LLLL x 6) – 00089	LLLLL = (LLLL x 6) + 00089	$LLLLL = (LLLL \times 6)$	$LLLLL = (LLLL \times 6)$
			382213-LLLLL	382214-LLLLL
0400 and up	382207	382208	LLLLL = (LLLL x 12) -02400	LLLLL = (LLLL x 12) -02400

Section L1 Length – <u>LLLL</u>	I	п	III	IV
0200	382225 (382205 with 45 deg added)	382226 (382206 with 45 deg added)	No Guiding Section	No Guiding Section
0201 – 0399	382205–LLLLL LLLLL = (LLLL x 6) – 00089	382206–LLLLL LLLLL = (LLLL x 6) + 00089	382213–LLLLL LLLLL = (LLLL x 6)	382214–LLLLL LLLLL = (LLLL x 6)
0400 and up	382205	382206	382213–LLLLL LLLLL = (LLLL x 12) –02400	382214–LLLLL LLLLL = (LLLL x 12) –02400

Z Frame – Section L2

Item Part Number Description 2 639971M Single Drop in Tee Bar		
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Item	Part Number	Description	2	639971M	Single Drop-in Tee Bar
1	200121	Guide Retaining Clip	3	920694M	Socket Head Screw M6 x 20mm

Inclining Belt Travel*

Section L2 Length – <u>LLLL</u>	Ι	Ш	III	IV	V
	382203-LLLLL	382204-LLLLL		382205-LLLLL	382206-LLLLL
0200 – 0371	LLLLL = (LLLL x 6) – 00145	LLLLL = (LLLL x 6) – 00145	No Guiding Section	LLLLL = (LLLL x 6) - 00070	LLLLL = (LLLL x 6) - 00070
	382203-LLLLL	382204-LLLLL	382200-LLLLL	382205-LLLLL	382206-LLLLL
0371 – 0600	LLLLL = (LLLL x 4) + 00100	LLLLL = (LLLL x 4) + 00100	LLLLL = (LLLL x 4) - 00490	LLLLL = (LLLL x 4) + 00315	LLLLL = (LLLL x 4) + 00315
0601 and up	382203	382204	382200–LLLLL LLLLL = (LLLL x 12) – 04485	382205	382206

Section L2 Length – <u>LLLL</u>	I	Ш	Ш	IV	V
	382201-LLLLL	382202-LLLLL		382207-LLLLL	382208-LLLLL
0200 – 0325	LLLLL = (LLLL x 6) – 00282	LLLLL = (LLLL x 6) – 00282	No Guiding Section	LLLLL = (LLLL x 6) – 00357	LLLLL = (LLLL x 6) - 00357
	382201-LLLLL	382202-LLLLL	382200-LLLLL	382207-LLLLL	382208-LLLLL
0326 – 0499	LLLLL = (LLLL x 4) - 00331	LLLLL = (LLLL x 4) – 00331	LLLLL = (LLLL x 4) – 00092	LLLLL = (LLLL x 4) + 00314	LLLLL = (LLLL x 4) + 00314
0500 and up	382201	382202	382200–LLLLL LLLL = (LLLL x 12) – 03905	382207	382208

Z Frame – Section L3



Item	Part Number	Description	2	639971M	Single Drop-in Tee Bar
1	200121	Guide Retaining Clip	3	920694M	Socket Head Screw M6 x 20mm

Inclining Belt Travel*

Section L3 Length – <u>LLLL</u>	I	п	III	IV
0200	No Guiding Section	No Guiding Section	382221 (382201 with 45 deg added)	382222 (382202 with 45 deg added)
	382213-LLLLL	382214-LLLLL	382201-LLLLL	382202-LLLLL
0201 – 0399	$LLLLL = (LLLL \times 6)$	$382214 - LLLLL \\ LLLLL = (LLLL \times 6)$	LLLLL = (LLLL x 6) – 00731	LLLLL = (LLLL x 6) – 00731
	382213-LLLLL	382214-LLLLL		
0400 and up	LLLLL = (LLLL x 12) – 02400	LLLLL = (LLLL x 12) – 02400	382201	382202

Section L3 Length – <u>LLLL</u>	I	п	III	IV
0200	No Guiding Section	No Guiding Section	382223 (382203 with 45 deg added)	382224 (382204 with 45 deg added)
	382213-LLLLL	382214-LLLLL	382203-LLLLL	382204-LLLLL
0201 – 0399	$LLLLL = (LLLL \times 6)$		LLLLL = (LLLL x 6) – 00301	LLLLL = (LLLL x 6) – 00301
	382213-LLLLL	382214-LLLLL		
0400 and up	LLLLL = (LLLL x 12) – 02400	LLLLL = (LLLL x 12) – 02400	382203	382204

L Frame – Section L2



Item	Part Number	Description	4	382094M	Extension Exit Guide, Left
1	200121	Guide Retaining Clip	5	382095M	Extension Exit Guide, Right
2	639971M	Single Drop-in Tee Bar	6	910506M	Button Head Screw M5 x 6mm
3	920694M	Socket Head Screw M6 x 20mm			

Inclining Belt Travel*

Section L2 Length – <u>LLLL</u>	Ι	П	III	IV	V
0200	382203–LLLLL LLLLL = (LLLL x 6) – 00140	382204–LLLLL LLLLL = (LLLL x 6) – 00140	No Guiding Section	382209–LLLLL LLLL = (LLLL x 6) – 00193	382210-LLLLL LLLLL = (LLLL x 6) - 00193
0201 – 0399	382203–LLLLL LLLLL = (LLLL x 4) – 00140	382204–LLLLL LLLLL = (LLLL x 4) – 00140	382200–LLLLL LLLLL = (LLLL x 4) – 00200	382209–LLLLL LLLLL = (LLLL x 4) – 00193	382210-LLLLL LLLLL = (LLLL x 4) - 00193
0400 and up	382203	382204	382200–LLLLL LLLLL = (LLLL x 12) – 04477	382209	382210

Section L2 Length – <u>LLLL</u>	Ι	II	III	IV	V
0200	382221 (382201 with 45 deg added)	382222 (382202 with 45 deg added)	No Guiding Section	No Guiding Section	No Guiding Section
0201 – 0399	382201–LLLLL LLLLL = (LLLL x 6) – 00731	382202–LLLLL LLLLL = (LLLL x 6) – 00731	No Guiding Section	382213–LLLLL LLLLL = (LLLL x 6)	382214–LLLLL LLLLL = (LLLL x 6)
0400 and up	382201	382202	No Guiding Section	382213–LLLLL LLLLL = (LLLL x 12) – 02400	382214–LLLLL LLLLL = (LLLL x 12) – 02400

L Frame – Section L3



Inclining Belt Travel*

Section L3 Length – <u>LLLL</u>	I	п	ш	IV
0200	No Guiding Section	No Guiding Section	382221 (382201 with 45 deg added)	382222 (382202 with 45 deg added)
	382213-LLLLL	382214-LLLLL	382201-LLLLL	382202-LLLLL
0201 – 0399	$1 - 0399 \qquad \qquad 1382213 - LLLL \qquad 382214 - LLLL \\ LLLLL = (LLLL x 6) \qquad \qquad LLLLL = (LLLL x 6)$		LLLLL = (LLLL x 6) – 00731	LLLLL = (LLLL x 6) – 00731
	382213-LLLLL	382214-LLLLL		
0400 and up	LLLLL = (LLLL x 12) – 02400	LLLLL = (LLLL x 12) – 02400	382201	382202

Section L3 Length – <u>LLLL</u>	I	п	III	IV
0200	No Guiding Section	No Guiding Section	382223 (382203 with 45 deg added)	382224 (382204 with 45 deg added)
	382213-LLLLL	382214-LLLLL	382203-LLLLL	382204-LLLLL
0201 – 0399	$LLLLL = (LLLL \times 6)$		LLLLL = (LLLL x 6) – 00301	LLLLL = (LLLL x 6) – 00301
	382213-LLLLL	382214-LLLLL		
0400 and up	LLLLL = (LLLL x 12) – 02400	LLLLL = (LLLL x 12) – 02400	382203	382204

P Frame – Section L1



Item	Part Number	Description	2	639971M	Single Drop-in Tee Bar
1	200121	Guide Retaining Clip	3	920694M	Socket Head Screw M6 x 20mm

Inclining Belt Travel*

Section L1 Length – <u>LLLL</u>	I	п	ш	IV
0200	382227 (382207 with 45 deg added)	382228 (382208 with 45 deg added)	No Guiding Section	No Guiding Section
0201 – 0399	382207–LLLLL LLLLL = (LLLL x 6) – 00089	382208–LLLLL LLLLL = (LLLL x 6) + 00089	382213–LLLLL LLLLL = (LLLL x 6)	382214–LLLLL LLLLL = (LLLL x 6)
0400 and up	382207	382208	382213–LLLLL LLLLL = (LLLL x 12) –02400	382214–LLLLL LLLLL = (LLLL x 12) –02400

Section L1 Length – <u>LLLL</u>	I	п	III	IV
0200	382225 (382205 with 45 deg added)	382226 (382206 with 45 deg added)	No Guiding Section	No Guiding Section
0201 – 0399	382205–LLLLL LLLLL = (LLLL x 6) – 00089	382206–LLLLL LLLLL = (LLLL x 6) + 00089	382213–LLLLL LLLLL = (LLLL x 6)	382214–LLLLL LLLLL = (LLLL x 6)
0400 and up	382205	382206	382213–LLLLL LLLLL = (LLLL x 12) –02400	382214–LLLLL LLLLL = (LLLL x 12) –02400

P Frame – Section L2



Item	Part Number	Description
1	200121	Guide Retaining Clip

2	639971M	Single Drop-in Tee Bar
3	920694M	Socket Head Screw M6 x 20mm

Inclining Belt Travel*

Section L2 Length – <u>LLLL</u>	I	п	ш	IV
0200	No Guiding Section	No Guiding Section	382225 (382205 with 45 deg added)	382226 (382206 with 45 deg added)
	382213-LLLLL	382214-LLLLL	382205-LLLLL	382206-LLLLL
0201 – 0399	$LLLLL = (LLLL \times 6)$	$(1) = (1) = x_{6}$	LLLLL = (LLLL x 6) – 00089	LLLLL = (LLLL x 6) – 00089
	382213-LLLLL	382214-LLLLL		
0400 and up	LLLLL = (LLLL x 12) – 02400	LLLLL = (LLLL x 12) – 02400	382205	382206

Section L2 Length – <u>LLLL</u>	I	п	III	IV
0200	No Guiding Section	No Guiding Section	382227 (382207 with 45 deg added)	382228 (382208 with 45 deg added)
	382213-LLLLL	382214-LLLLL	382207-LLLLL	382208-LLLLL
0201 – 0399	$LLLLL = (LLLL \times 6)$	$LLLLL = (LLLL \times 6)$	LLLLL = (LLLL x 6) – 00089	LLLLL = (LLLL x 6) – 00089
	382213-LLLLL	382214-LLLLL		
0400 and up	LLLLL = (LLLL x 12) – 02400	LLLLL = (LLLL x 12) – 02400	382207	382208

Sidewall Cleated Belt Conveyor Configurations



Section and Length Determination







ĺ	Item	Part Number	Description	2
ĺ	1	200121	Guide Retaining Clip	3

2	639971M	Single Drop-in Tee Bar
3	920694M	Socket Head Screw M6 x 20mm

Guides

Item	Part Number	Description	Length Formula
4	380900-LLLLL	Z Frame Section L1 Cleated Sidewall Guide	LLLLL = (LLLL * 12) – 00175
5	380900-LLLLL	Z Frame Section L2 Cleated Sidewall Guide	LLLLL = (LLLL * 12) – 00443
6	380900-LLLLL	Z Frame Section L3 Cleated Sidewall Guide	LLLLL = (LLLL * 12) - 00100

L Frame Horizontal to Incline Cleated Sidewall Guiding



Item	Part Number	Description	2	639971M	Single Drop-in Tee Bar
1	200121	Guide Retaining Clip	3	920694M	Socket Head Screw M6 x 20mm

Guides

Item	Part Number	Description	Length Formula
4	380900-LLLLL	Z Frame Section L2 Cleated Sidewall Guide	LLLLL = (LLLL * 12) - 00443
5	380900-LLLLL	Z Frame Section L3 Cleated Sidewall Guide	LLLLL = (LLLL * 12) – 01000

P Frame Nose Over Cleated Sidewall Guiding



Item	Part Number	Description	2	639971M	Single Drop-in Tee Bar
1	200121	Guide Retaining Clip	3	920694M	Socket Head Screw M6 x 20mm

Guides

Item	Part Number	Description	Length Formula
4	380900-LLLLL	Z Frame Section L1 Cleated Sidewall Guide	LLLLL = (LLLL * 12) – 00175
5	380900-LLLLL	Z Frame Section L2 Cleated Sidewall Guide	LLLLL = (LLLL * 12) – 00226

Cleated Belt Mounting Brackets



Connecting Assembly without Stand Mount					
3 6052		605279P	Washer		
	2	300150M	Drop–In Tee Bar		
	1	240836	Cleated Mounting Assembly		
	Item	Part Number	Description		

4	807–920	Square Nut M6 5mm x 10mm			
5	920620M	Socket Head Screw M6 x 20mm			
6	920692M	Socket Head Screw M6 x 12mm			

	í				3
Item	Part Number	Description	2	240859	Intermediate Clamp Plate
nom	240858	Frame Bar Connector	3	920692M	Socket Head Screw M6 x 12mm

Cleated Belt Connecting Assembly with Stand Mount



Item	Part Number	Description	4	807–920	Square Nut M6 5mm x 10mm
1	240858	Frame Connector Bar	5	920620M	Socket Head Screw M6 x 20mm
2	240846	Cleat Stand Bracket Assembly	6	920692M	Socket Head Screw M6 x 12mm
3	605279P	Washer			

4" (102 mm) to 24" (610 mm) Cleated Belt Return Roller



Item	Part Number	Description	3	802–123	Bearing
1	240825	Short Return Roller Guard	4	913–100	Dowel Pin
2	240828	Cleated Return Roller Clip	5	920693M	Socket Head Screw M6 x 16mm

Conveyor Belt Part Number Configuration Flat Belt Conveyor Model Number 3 <u>T D</u> M <u>WW LLLL</u> A PP <u>BB</u> **Cleated Belt Conveyor Model Number** 3 T C M WW LLLL A SSSS PATENTS 5131529 5156261 5203447 5875883 5156260 5174435 5265714 AND CORRESPONDING PATENTS AND PATENT APPLICATIONS IN OTHER COUNTRIES CORP DORNER MEG HARTLAND w L IS 1



Flat Belt Part Number Configuration

Refer to Dorner patent plate (Figure 90). From the model number, determine conveyor tracking ("T"), drive/tail type ("D"), width ("WW"), length ("LLLL") and belt type ("BB"). Use data to configure belt part number as indicated below.

3 <u>T D M WW LLLL / BB</u>



Cleated Belt Part Number Configuration

Refer to Dorner patent plate (Figure 90). From the model number, determine conveyor tracking ("T"), cleat type ("C"), width ("WW"), length ("LLLL"), and cleat spacing ("SSSS"). Use data to configure belt part number as indicated below. *Add "L" for low friction cleated belt.

3 <u>T C M WW LLLL / SSSS</u> L*



LPZ Series Cleated and Side Wall Cleated Belt Conveyor Installation, Maintenance & Parts Manual Dorner Mfg. Corp. 45 851-520 Rev. B

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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