

# 3200 Series iDrive Belt Conveyors

## Installation, Maintenance & Parts Manual



DORNER MFG. CORP. P.O. Box 20 • 975 Cottonwood Ave. Hartland, WI 53029-0020 USA INSIDE THE USA TEL: 1-800-397-8664 FAX: 1-800-369-2440 OUTSIDE THE USA TEL: 262-367-7600 FAX: 262-367-5827

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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 3200 series conveyors are covered by Patent Numbers 5,156,260, 6,298,981, 6,971,509, 6,901,571, 6,871,737, 6,871,737B2, 6,910,571B1, 6,971,509B2, and corresponding patents and patent applications in other countries.

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

Dorner has convenient, pre-configured kits of Key Service Parts for all conveyor products. These time saving kits are easy to order, designed for fast installation, and guarantee you will have what you need when you need it. Key Parts and Kits are marked in the Service Parts section of this manual with the Performance Parts Kits logo  $\square$ .

## Warnings - General Safety



## **Product Description**

Refer to figures below for typical components.

#### **Typical Conveyor Components Figure 1:**

- 1 Conveyor
- 2 Guiding & Accessories
- 3 Mounting Brackets
- 4 Return Rollers
- 5 Support Stand
- 6 Drive End
- 7 Idler/Tension End



- 1 Speed Control
- 2 On/Off Switch
- 3 Direction Switch
- 4 Power Input Jack



Figure 2



Figure 1

## Specifications

Models:

### Flat Belt 3200 Series Conveyor



### **Cleated Belt 3200 Series Conveyor**



\* See Ordering and Specifications Catalog for details.

## **Specifications**

### **Conveyor Supports:**

#### Maximum Distances:

1 = 24" (610 mm) (Drive End)

2 = 12 ft (3658 mm)

3 = 36" (914 mm) (Idler End)



Figure 3

### **Specifications:**

Conveyor Width	06	08	10	12	14	16	18	20	22	24
Reference (WW)										
Conveyor Belt Width	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
	(152mm)	(203mm)	(254mm)	(305mm)	(356mm)	(406mm)	(457mm)	(508mm)	(559mm)	(609mm)
Maximum Conveyor Load				See iD	rive Load Ca	apacity Chart	Below			
Conveyor Startup	13 in-lb	17 in-lb	22 in-lb	25 in-lb	29 in-lb	33 in-lb	41 in-lb	43 in-lb	48 in-lb	50 in-lb
Torque*	(1.5 Nm)	(1.9 Nm)	(2.5 Nm)	(2.8 Nm)	(3.3 Nm)	(3.7 Nm)	(4.6 Nm)	(4.9 Nm)	(5.4 Nm)	(5.6 Nm)
Conveyor Length		•	•	030	0 to 1200 in	0001 increm	ents	•	•	
Reference (LLLL)										
Conveyor Length		3 ft (914mm) to 12 ft (3658mm) in 0.12" (0.31mm) increments								
Belt Travel	9.7" (246 mm) per revolution of pulley									
Maximum Belt Speed*	171 ft/minute (52 m/minute)									
Belt Takeup		1.62" (41 mm) of Belt Takeup on Conveyors Under 12' Length								

\* See Ordering and Specifications Catalog for details.

### iDrive Load Capacity (lbs)

Conveyor Width	High Speed Motor	Medium Speed Motor	Low Speed Motor
6" (152mm)	46	63	115
8" (203mm)	43	60	111
10" (254mm)	37	54	106
12" (305mm)	34	51	103
14" (356mm)	30	47	98
16" (406mm)	25	42	94
18" (457mm)	16	34	85
20" (508mm)	14	31	83
22" (559mm)	10	27	78
24" (610mm)	8	25	76

#### NOTE

Maximum conveyor length based on:

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

### **Motor Specifications**

	High Speed	Medium Speed	Low Speed
Output Power	150 watt	150 watt	150 watt
Motor Voltage	36 volt DC, 4 amp	36 volt DC, 4 amp	36 volt DC, 4 amp
Transformer Voltage	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Gearmotor Ratio	15:1	15:1	25:1
Motor Type	Brushless DC	Brushless DC	Brushless DC
Belt Speeds	27-171 Ft./Min., High Speed	21-133 Ft./Min., Medium Speed	15-80 Ft./Min., Low Speed
Duty Cycle	Continuous Rated	Continuous Rated	Continuous Rated
Index Capacity	30 times / Min.	30 times / Min.	30 times / Min.

### NOTE

Conveyor MUST be mounted straight, flat and level within confines of conveyor. Use a level (Figure 4, item 1) for setup.





### **Required Tools**

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

# Recommended Installation Sequence

- Install support 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 page 26 through 40 of "Service Parts" section for details)

### Conveyors Up to 13 ft (3962 mm)

No assembly is required. Install mounting brackets and return rollers. Refer to "Mounting Brackets" on page 7 and "Return Rollers" on page 8.

# Conveyors Longer Than 13 ft (3962 mm)

Installation Component List:

- 1 Conveyor frame
- 2 Section Label
- Locate and arrange conveyor sections (Figure 5, item 1) by section labels (Figure 5, item 2).



#### Figure 5

 On tension end of the conveyor, identified by the pinion locking screw (Figure 6, item 1), push in head plate assembly (Figure 6, item 2): Loosen the pinion locking screw (Figure 6, item 3), adjust the pinion torque screw (Figure 7, item 1). On both sides of conveyor, loosen the two tail clamp bolts (Figure 6, item 3), and push head plate assembly (Figure 6, item 2) inward.



Figure 6



Figure 7

3. Roll out conveyor belt and place conveyor frame sections (Figure 8, item 1) into belt loop.



Figure 8

4. Join conveyor sections and install connector brackets (Figure 9, item 1) or connector/mount brackets (Figure 9, item 2) and screws (Figure 9, item 3) on both sides as indicated. Tighten screws to 60 in-lb (7 Nm).



Figure 9

### NOTE

For Conveyors longer than 20 ft (6096 mm) use the process outlined in the "Conveyor Belt Tensioning" section on page 14. Extend the Drive End Tail Assembly to the zero mark of the tension indicator (Figure 10, item 1) before proceeding to step 5. The zero mark for the tension indicator is when the indicator begins to turn black.



Figure 10

- 5. Tighten conveyor belt, refer to "Conveyor Belt Tensioning" on page 14.
- 6. Install mounting brackets and return rollers. Refer to "Mounting Brackets" on page 7 and "Return Roller" on page 8.

### **Mounting Brackets**

1. Locate brackets. Exploded views shown in Figure 11 & Figure 12.



Mounting Brackets for Flat Belt Conveyor

Figure 11



Mounting Brackets for Cleated Belt Conveyor

Figure 12

- Remove screws (Figure 11, item 1 & 2) or (Figure 12, item 1 & 2), washers (Item 3), nuts (Item 4) and T-bars (Item 5) from brackets.
- 3. Insert T-bars (Figure 11, item 5) or (Figure 12, item 5) into conveyor side slots (Figure 13, item 1). Fasten brackets (Figure 13, item 2) to conveyor with mounting screws (Figure 13, item 3).



Figure 13

### **NOTE** Mounting brackets for flat belt conveyors shown.

- 4. Fasten brackets to support stand with mounting screws (Figure 13, item 4), washers (Figure 13, item 5) and nuts (Figure 13, item 6).
- 5. Tighten screws (Figure 13, item 3 & 4) to 60 in-lb (7 Nm).

### **Return Rollers**

# Cleated Belt and 4–6" (51–152 mm) Wide Flat Belt Conveyors

 Locate return rollers. Exploded views shown in Figure 14 & Figure 15.



Return Rollers for Flat Belt Conveyor

Figure 14



#### Figure 15

- Remove screws (Figure 14, item 1) & (Figure 15, item 1) and clips (Item 2) from roller assembly.
- 3. Install roller assemblies (Figure 16, item 1) as shown. Tighten screws (Figure 16, item 2) to 60 in-lb (7 Nm).



Figure 16

#### 8–48" (203–1219 mm) Wide Flat Belt Conveyors

1. Locate return rollers. Exploded view shown in Figure 17.





- Remove screws (Figure 17, item 1) and clips (Figure 17, item 2) from roller assembly.
- Install roller assembly as shown (Figure 18, item 1). Tighten screws (Figure 18, item 2) to 60 in-lb (7 Nm).



Figure 18

### Wiring



The 3200 series iDrive is available in 3 models:

- Cover Mounted Controls with 115 volt Power Supply
- Cover Mounted Controls with Customer Provided Power Supply
- Customer Wired with Flying Leads

#### Cover Mounted Controls with 115 volt Power Supply



1. No wiring is required. Attach quick disconnect end of power supply to power jack (**Figure 19, item 1**).



#### Figure 19

2. See "Change Acceleration / Deceleration Settings" on page 11 for changing factory control settings.

#### Cover Mounted Controls with Customer Provided Power Supply



- 1. Locate the male disconnect plug provided.
- Wire and solder DC power to the two terminals of the provided DC power plug. Wire +VDC to the short lug (Figure 20, item 1) and -VDC to the long lug (Figure 20, item 2).



#### Figure 20

- 3. Required power is 36VDC, 4 amps minimum.
- 4. See "Change Acceleration / Deceleration Settings" on page 11 for changing factory control settings.

#### **Customer Wired with Flying Leads**



### NOTE

- 1. Start Stop Application: Maximum start stop cycles are 20 per minute.
- 2. Reversing Applications: Do not reverse the motor direction when running. Make sure the motor is stopped before reversing signal is given.
- 1. Locate lead wires (**Figure 21, item 1**) extending from conveyor side rail. Determine wiring diagrams based on diagrams above.



#### Figure 21

- 2. Shielding wiring is recommended.
- 3. See "Change Acceleration / Deceleration Settings" on page 11 for changing factory control settings.

## Factory Settings

Controller Board:



NOTE: Factory settings prior to motor tuning.

#### **Potentiometers**

Item Number	Description	Setting
1	Current Limit %	100%
2	Gain %	*
3	Max. Speed %	0%
4	Min. Speed %	*
5	Decel. (0-10 sec.)	0 sec.
6	Accel. (0-10 sec.)	0.5 sec.

\* See "iDrive Motor Tuning" on page 23.

#### Jumpers

Item Number	Description	Position	Setting
7	Input Voltage (P3)	P3-2 & 3 (36)	24/36 VDC
8	Sensor Spacing (P2)	P2-1 & 2 (120)	120 deg.
9	Potentiometer Function (P5)	P5-2 & 3 (U)	Unidirectional

NOTE: Refer to Dart Controls Instruction Manual for 700B Control Series for further details.

## Change Acceleration / Deceleration Settings

	<b>A</b> WARNING
	×
	Exposed moving parts can cause severe injury. LOCK OUT POWER before removing guards or performing maintenance.
ι.	Remove belt. (See "Belt Removal for Conveyor With

- Remove belt. (See "Belt Removal for Conveyor Without Stands" on page 13 or "Belt Removal for Conveyor With Stands" on page 13.)
- Remove control board mounting screws (Figure 22, item 1) from bottom of plate.





Figure 23

5. Reinstall by reversing steps.



Figure 22

3. Locate potentiometers to change. See Controller Board layout on page 10.

### **Required Tools**

### **Standard Tools**

- Hex-key wrenches:
  - 2.5 mm, 4 mm, 5 mm

### 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**

### **A**WARNING



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

### **Conveyor Belt Replacement Sequence**

- Remove old conveyor belt:
- -Conveyor without Stands
- -Conveyor with Stands
- Install new conveyor belt
- Tension conveyor belt

#### **Belt Removal for Conveyor Without Stands**

- 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 (Figure 24, item 1), push in head plate assembly (Figure 24, item 2): Loosen the pinion locking screw (Figure 24, item 1), adjust the pinion torque screw (Figure 25, item 1). On both sides of conveyor, loosen the two tail clamp bolts (Figure 24, item 3), and push head plate assembly (Figure 24, item 2) inward.



Figure 24



Figure 25

3. Remove conveyor belt.

### Belt Removal for Conveyor With Stands

1. Place temporary support stands (Figure 26, item 1) at both ends of the conveyor.



Figure 26

- Remove mounting brackets (Figure 26, item 2) from one side of conveyor. (Reverse steps 3 & 4 of "Mounting Brackets" section on page 7).
- 3. If equipped, remove return rollers, guiding and accessories from the same side of conveyor.
- On tension end of the conveyor, identified by the pinion locking screw (Figure 27, item 1), push in head plate assembly (Figure 27, item 2): Loosen the pinion locking screw (Figure 27, item 1), adjust the pinion torque screw (Figure 28, item 1). On both sides of conveyor, loosen the two tail clamp bolts (Figure 27, item 3), and push head plate assembly (Figure 27, item 1) inward.



Figure 27



Figure 28

5. Remove belt (Figure 29, item 1) from conveyor.



Figure 29

# Belt Installation for Conveyor without Stands

1. Orient belt so splice leading fingers (**Figure 30, item 1**) point in the direction of belt travel as identified by the conveyor directional label (**Figure 30, item 2**).



Figure 30

- 2. Slide belt onto the conveyor frame assembly.
- 3. Tension belt. Refer to "Conveyor Belt Tensioning" on page 14.
- 4. If equipped, install wipers, return rollers and guiding

### Belt Installation for Conveyor with Stands

- 1. Ensure temporary support stands (Figure 31, item 1) are placed at both ends of the conveyor.
- 2. Orient belt so splice leading fingers (**Figure 30, item 1**) point in the direction of belt travel as identified by the conveyor directional label (**Figure 30, item 2**).
- 3. Install belt (**Figure 31, item 2**) on conveyor. Lift conveyor slightly to avoid pinching belt on temporary support stands.



#### Figure 31

- 4. Re-install conveyor mounting brackets. Refer "Mounting Brackets" on page 7, steps 3 through 5.
- 5. Tension belt. Refer to "Conveyor Belt Tensioning" on page 14.
- 6. If equipped, re-install return rollers and guiding.

### **Conveyor Belt Tensioning**



### NOTE

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

1. On tension end of the conveyor, identified by the pinion locking screw (**Figure 32, item 1**), loosen the two tail clamp bolts (**Figure 32, item 2**), on both sides of conveyor.



#### Figure 32

 With 5mm hex wrench, hold pinion torque screw (Figure 33, item 1). Loosen the pinion locking screw (Figure 32, item 1) and turn the pinion torque screw (Figure 33, item 1) to extend head plate assembly (Figure 32, item 3).



Figure 33

#### 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.

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 (Figure 34, item 1) the belt must be replaced.



#### Figure 34

- 4. After adjusting proper tensioning, tighten the pinion locking screw (Figure 32, item 1) to 69 in-lbs (7.8 N-m), and tighten tail clamp bolts (Figure 32, item 2) on both sides of conveyor to 146 in-lb (16.5 N-m).
- 5. If belt tracking is necessary, refer to "Conveyor Belt Tracking" on page 15.

### **Conveyor Belt Tracking**

#### **V-Guided Belts**

V-guides on belts help maintain proper belt tracking. Track as needed to reduce belt bulge from center of belt (Figure 35). See steps below in "Non V-guided Belts" procedure for adjusting for any belt bulging. Belt bulge will be minimal when belt is properly tracked.



Figure 35

#### Non V-Guided Belts

Non V-guided belt conveyors are equipped with belt tracking assemblies.

- 1. When adjusting belt tracking, always adjust the discharge end of the conveyor first. To adjust belt tracking:
- Ensure tensioning racks are extended and touching the idler pulley headplates: loosen the pinion locking screw (Figure 36, item 1) and rotate the pinion torque screw (Figure 33, item 1) clockwise until contact with the head plate is made, then tighten the pinion locking screw (Figure 36, item 1) to 69 in-lbs (7.8 N-m)
- 3. On the side of conveyor to be adjusted, loosen two (2) tail clamp screws (**Figure 36, item 2**).



Figure 36

4. With the conveyor running, use wrench (Figure 37, item 1) to rotate the tracking screw (Figure 38, item 1) in small increments until the belt tracks in the center of the conveyor.



Figure 37



Figure 38

5. Re-tighten the head plate fastening screws (**Figure 39**, **item 1**) with a 5 mm hex-key wrench to 146 in-lb (16.5 Nm).



Figure 39

### Pulley Removal



Belt Replacement" on page 12. Remove the desired pulley following the corresponding instructions below:

- A Idler Pulley Removal
- **B** Transfer Tail Pulley Removal

#### A - Idler Pulley Removal

1. Temporarily support the idler pulley.





On one side of conveyor, loosen the two (2) back fastening screws (Figure 41, item 1) and remove two (2) front fastening screws (Figure 41, item 2).



Figure 41

3. Pull back the outer headplate (Figure 42, item 1) and remove the inner spacer (Figure 42, item 2).





4. Slide the idler pulley assembly (**Figure 43, item 1**) out of the headplate on the opposite side.



Figure 43

 Remove the pulley shaft assembly: remove the clip ring (Figure 44, item 1) and washer (Figure 44, item 2) from one side of the pulley assembly.



Figure 44

6. Slide the shaft assembly (**Figure 45, item 1**) out of the pulley (**Figure 45, item 2**).



Figure 45

### **B** - Transfer Tail Pulley Removal

1. Temporarily support the transfer tail assembly.



Figure 46

2. On one side of conveyor, remove the two (2) back fastening screws (Figure 47, item 1), and the two (2) front fastening screws (Figure 47, item 2).



#### Figure 47

3. Remove the inner spacer (Figure 48, item 1).



Figure 48

Slide the transfer tail pulley assembly (Figure 49, item 1) out of the headplate on the opposite side.



Figure 49

5. Remove hex nuts (Figure 50, item 1).



Figure 50

6. Remove support plates (Figure 51, item 1) and washers (Figure 51, item 2).



Figure 51

7. Remove pulleys (Figure 52, item 1) and additional washers (Figure 52, item 2).



Figure 52

8. To remove additional pulleys, repeat steps 6 through 7.

### **Pulley Replacement**

### **Idler Pulley**

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

### **Transfer Tail Pulley**

To replace the transfer tail pulley, reverse the "Transfer Tail Pulley Removal" procedure on page 17.

# Drive Spindle Removal and Replacement



### Removal

- 1. Remove belt. (See "Belt Removal for Conveyor Without Stands" on page 13 or "Belt Removal for Conveyor With Stands" on page 13.)
- 2. Remove wear plate (Figure 53, item 1) by removing plate fastening screws (Figure 53, item 2) on each side and end of conveyor



Figure 53

3. Disconnect two wiring harness connectors (Figure 54, item 1).



Figure 54

- 4. Loosen four hex head screws (Figure 54, item 2) on each side of conveyor.
- 5. Remove two hex head screws (Figure 56, item 1).



Figure 55

6. Slide drive motor and plate (Figure 56, item 1) to loosen tension on timing belt (Figure 56, item 2).



Figure 56

7. Remove hex head screw (**Figure 57, item 1**) and washer from both sides of the conveyor.



Figure 57

8. Remove drive spindle assembly (Figure 58, item 1) and replace.



Figure 58

#### Replacement

Install in reverse order of removal.

#### NOTE

Move drive motor plate (Figure 59, item 1) to obtain 1/8 - 1/4" belt deflection at center of belt (Figure 59, item 2) with approximately 3-5 in-lb of pressure. Tighten two hex head screws (Figure 59, item 3) to 15 in-lb (1.6 Nm) to secure position.

## 

Over tightening of timing belt will result in reduced gearmotor and timing belt life.



Figure 59

### **Motor Removal and Replacement**



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

- 1. Remove belt. (See "Belt Removal for Conveyor Without Stands" on page 13 or "Belt Removal for Conveyor With Stands" on page 13.)
- 2. Remove wear plate (**Figure 60, item 1**) by removing plate fastening screws (**Figure 60, item 2**) on each side and end of conveyor



Figure 60

3. Disconnect two wiring harness connectors (Figure 61, item 1).





- 4. Remove tie strap (Figure 61, item 2) from drive motor harness.
- 5. If applicable, remove black cap from end (**Figure 61**, **item 3**) of drive motor.

6. Remove two hex head screws (Figure 62, item 1) and washers securing drive motor plate (Figure 62, item 2) to conveyor.



Figure 62

 Slide drive motor (Figure 63, item 1) and remove timing belt (Figure 63, item 2) from drive motor gear (Figure 63, item 3).



Figure 63

8. Loosen two set screws (Figure 64, item 1) holding drive motor gear (Figure 64, item 2) onto drive motor shaft.



Figure 64

### NOTE

Take note of the drive motor gear (Figure 65, item 1) placement. When reassembling the drive motor gear, it should be reassembled to the exact same location on the shaft.

9. Remove drive motor gear (Figure 65, item 1) from drive motor shaft (Figure 65, item 2).



Figure 65

- 10. Remove drive motor from headplate assembly.
- 11. Replace motor.
- 12. Reinstall in reverse order of removal. (Refer to "Drive Spindle Removal and Replacement" on page 18 for timing belt tensioning.)

# Circuit Board Removal and Replacement



- 1. Remove belt. (See "Belt Removal for Conveyor Without Stands" on page 13 or "Belt Removal for Conveyor With Stands" on page 13.)
- 2. Remove wear plate (**Figure 66**, **item 1**) by removing plate fastening screws (**Figure 66**, **item 2**) on each side and end of conveyor



Figure 66

Disconnect two wiring harness connectors (Figure 67, item 1) from motor connector (Figure 67, item 2) and switch wiring connector (Figure 67, item 3).



Figure 67

4. Remove hex head screw (Figure 68, item 1), and loosen hex head screw (Figure 68, item 2). Remove circuit board (Figure 68, item 3) from conveyor frame.



Figure 68

5. Replace circuit board.

### NOTE

Make sure the cord or wires are not across the circuit board when reassembling. Tuck wires and cable into the frame extrusion.

6. Reinstall in reverse order of removal.

### **iDrive Motor Tuning**

Before starting up the conveyor, set the following:



Figure 69



Figure 70

1	CUR LIM = 100% (4:00 position)	
2	GAIN = 100% (4:00 position)	
3	MAX = 0% (Fully CCW)	
4	MIN = 20% (9:00 position)	
5	ACCEL = 20% (9:00 position)	
6	DECEL = 0% (Fully CCW)	
7	Speed Pot = 100% (Fully CW)	

#### Turn on the Conveyor and complete the following:

1. Place a tachometer (Figure 71, item 1) against the spindle (Figure 71, item 2) to register the speed (Ft./ Min.).



Figure 71

 Using a small screwdriver, slowly turn down the GAIN (CCW) (Figure 69, item 2) to top speed within 3 Ft./ Min. See Speed Chart below:

		Gearbo	ox Ratio
		15:1	25:1
Drive Pulley	36	27-171	19-103
	32	24-152	17-91
	28	21-133	15-80

- 3. Turn speed pot (**Figure 70, item 7**) all the way down (Fully CCW).
- 4. Adjust MIN (**Figure 69, item 4**) to low speed within 3 Ft./Min. (See Speed Chart above.)
- 5. Verify proper low and high speeds are achieved by turning speed pot (**Figure 70, item 7**) CCW to the lowest setting and the CW to the highest setting.

### **Switch Removal and Replacement**



- 1. Remove belt. (See "Belt Removal for Conveyor Without Stands" on page 13 or "Belt Removal for Conveyor With Stands" on page 13.)
- 2. Remove wear plate (**Figure 72, item 1**) by removing plate fastening screws (**Figure 72, item 2**) on each side and end of conveyor



Figure 72

- 3. Disconnect wiring harness connector (**Figure** 
  - 73, item 1) from circuit board wiring connector (Figure 73, item 2).



Figure 73

- 4. Remove tie strap (**Figure 73, item 3**) holding wiring harness to conveyor frame.
- 5. Remove two hex head screws (Figure 74, item 1) and switch assembly (Figure 74, item 2) from conveyor frame.





6. Replace switch assembly.

### NOTE

Make sure the cord or wires are not kinked or under any conveyor parts when reassembling.

7. Reinstall in reverse order of removal.

## Notes

## NOTE

For replacement parts other than those shown in this section, contact an authorized Dorner Service Center or the factory. Key Service Parts and Kits are identified by the Performance Parts Kits logo 🖾. Dorner recommends keeping these parts on hand.

### **Drive End Tail Assembly**



2 2 3 4 5 6	350109 350104 826-579 826-580 811-361 811-362 814-119 807-1941 3282 <u>WW</u>	Switch Assembly Cord Grip Assembly High and Medium Speed Motor Low Speed Motor High Speed Drive Pulley Medium and Low Speed Drive Pulley Timing Belt Motor Cap for 6" and 8" wide Conveyors Only Spindle Wand Assembly
2 3 4 5 6	826-579 826-580 811-361 811-362 814-119 807-1941	High and Medium Speed Motor Low Speed Motor High Speed Drive Pulley Medium and Low Speed Drive Pulley Timing Belt Motor Cap for 6" and 8" wide Conveyors Only
3 4 5 6	826-580 811-361 811-362 814-119 807-1941	Low Speed Motor High Speed Drive Pulley Medium and Low Speed Drive Pulley Timing Belt Motor Cap for 6" and 8" wide Conveyors Only
3 4 5 6	811-361 811-362 814-119 807-1941	High Speed Drive Pulley Medium and Low Speed Drive Pulley Timing Belt Motor Cap for 6" and 8" wide Conveyors Only
4 5 6	811-362 814-119 807-1941	Medium and Low Speed Drive Pulley Timing Belt Motor Cap for 6" and 8" wide Conveyors Only
4 5 6	814-119 807-1941	Timing Belt Motor Cap for 6" and 8" wide Conveyors Only
5 6	807-1941	Motor Cap for 6" and 8" wide Conveyors Only
6		6" and 8" wide Conveyors Only
	3282 <u>WW</u>	Spindle Wand Assembly
		(Includes Items 7 and 8)
7	605280P	Hard Washer
8	915-235	Stub Shaft Retaining Ring
9	350110- <u>WW</u>	Spindle Assembly
10	350091	Tail Plate, Drive Side
11	350092	Tail Plate, Non-Drive Side for 6" and 8" wide Conveyors
	350093	Tail Plate, Non-Drive Side for 8" and 10" wide and wider Conveyors
12	350095	Tracking Block
13	350096	Motor Mounting Plate
14	350097	Inner Tail Plate
15	350098	Slide Bar
16	350103	Control Assembly
17	605280P	Washer, 0.361 x 0.750 x 0.120
18	920406M	Socket Head Screw, M4-0.70 x 6mm
19	920408M	Socket Head Screw, M4-0.70 x 8mm
20	920892M	Low Head Cap Screw, M8-1.25 x 12mm
21	920893M	Low Head Cap Screw, M8-1.25 x 16mm
22	930410M	Flat Head Screw, M4-0.70 x 10mm
23	930512M	Flat Head Screw, M5-0.80 x 12mm
24	819-028	Fuse
25	819-150	Fuse Holder
26	350132	Power Supply
27	805-1316	DC Power Plug
28	350104	Custom Wired Version
29	350088-32- <u>WW</u>	iDrive Spindle Kit (Items 6 through 9)
<u>WW</u> = C	onveyor width refe	erence: 06 to 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 (includes items 8 and 11)
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	807-1151	Tracking Shaft Retaining Ring
10	807-1152	Hex Head Cap Screw M6 x 20mm
11	915-235	Stub Shaft Retaining Ring
12	920893M	Low Head Socket Screw M8 x 16mm
13	32T3- <u>WW</u>	Idler Spindle Kit
		(includes items 4 and 7)
14	32TT3- <u>WW</u>	Tail Assembly (including items 1 through 4, 6, 7 and 12)
<u>WW</u> =	Conveyor width re	ference: 06 - 24 in 02 increments

## Transfer Tail Assembly



Item	Part Number	Description
1	301082	Nosebar Cover Plate
2	301084	1" Inner Tail Plate
3	301088	Tail Bar Clamp Transfer
4	301090	Tail Support Plate
5	301196	Hex Tension Tracking Shaft
6	301352	Nut, E-ring, Brace
7	301354	Inner Transfer Tail Support Plate
8	3202 <u>WW</u>	Tail Articulation Bar
9	3217 <u>WW</u>	1" Idler Tail Axle Shaft
10	3219 <u>WW</u>	Support Bar
11	3237 <u>WW</u>	Transfer Tail Roller
12	807-1136	Washer
13	807-1151	Retaining Ring

Item	Part Number	Description	
14	807-1152	Hex Head Cap Screw M6 x 20mm	
15	910-203	3/8" Hex Nut	
16	915-319	Retaining Ring	
17	920408M	Hex Head Cap Screw M4 x 8mm	
18	920893M	Low Head Socket Screw M8 x 16mm	
19	32T1- <u>WW</u>	1" Idler Spindle Kit (includes items 6, 9, 11, 12, 15 and 16)	
-	00771 \4/\4/	, ,	
20	32TT1- <u>WW</u>	Tail Assembly (includes items 1 through 4, 6 through 12, 15 through 18)	
<u>WW</u> =	<u>WW</u> = Conveyor width reference: 06 - 24 in 02 increments		

## Frame Assembly



Item	Part Number	Description
1	240420	Rack Gear
2	301091	Pinion Bearing
3	605279P	Washer
4	920484M	Flange Torx 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>	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	See Bed Plate Bed Plate Rail Rail chart	
<u>WW</u> = Conveyor width reference: 06 - 24 in 02 increments <u>LLLLL</u> = Frame Length (see Bed Plate & Frame Formulas)		

Item 11: Bed Plate Rail		
Width	Part Number	
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 and Frame Formulas**

Bed Plate LLLLL = Frame LLLLL - 00013

Frame LLLLL	=	Conveyor Length LLLL X 12 – Tail Adder
		# of Sections of Conveyor
Tail Adder	=	00600 for each Tension End

il Adder	=	00600 for each Tension End	
		00425 for each Non-Tension End	

Width	Bed Plate Configuration				
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"

## -04 3" (76mm) Aluminum Side



Item	Part Number	Description
1	200121	Guide Retaining Clip
2	380400- <u>LLLLL</u> (see Formulas)	3200 Guide 3" (76mm) HS
3	639971M	Single Drop-in Tee Bar
4	920694M	Socket Head Screw M6 x 20mm

#### Length Formulas

<u>LLLLL</u> =	·	eyor Length XXXX) X 12 – Tail Factor of Sections of Conveyor
Tail Factor =	00000	for center drive with transfer tail both ends
	00100	for end drive with one transfer tail
	00200	for end drive and center drives with standard tails
	00325	for All Cleated Conveyors
# of Convoyou	Continuo	(Conveyor Length <u>XXXX</u> – 0100)
# of Conveyor	Sections =	1200

1200

XXXX = Conveyor Length (XX.XX ft)

#### Example

17'4" End Drive Conveyor with Standard Tails Conveyor Length = 1733 Tail Factor = 00200 # of Sections (round up)=  $\frac{(1733 - 0100)}{1000}$  = 1.36 = 2 Sections 1200 <u>LLLLL</u> =  $\frac{(1733 \times 12) - 00200}{2} = 10298$ 2

## -05 1.5" (38mm) Aluminum Side



Item	Part Number	Description
1	200121	Guide Retaining Clip
2	380500- <u>LLLLL</u> (see Formulas)	3200 Guide, 0.5" (13mm) HS
3	639971M	Single Drop-in Tee Bar
4	920694M	Socket Head Screw M6 x 20mm

#### Length Formulas

Length Formulas

<u>LLLLL</u> =	(Conveyor Length XXXX) X 12 – Tail Factor		
	ŧ.	of Sections of Conveyor	
Tail Factor =	00000	for center drive with transfer tail both ends	
	00100	for end drive with one transfer tail	
	00200	for end drive and center drives with standard tails	
	00325	for All Cleated Conveyors	
# of Convoyor	Continuo	(Conveyor Length XXXX – 0100)	
# of Conveyor Sections =		1200	
XXXX = Conve	evor Length	(XX.XX ft)	

#### Example

17'4" End Drive Conveyor with Standard Tails Conveyor Length = 1733 Tail Factor = 00200 # of Sections (round up)=  $\frac{(1733 - 0100)}{1200}$  = 1.36 = 2 Sections <u>LLLLL</u> =  $\frac{(1733 \times 12) - 00200}{2}$  = 10298

### -07 Low to Side Wiper



Item	Part Number	Description
1	200121	Guide Retaining Clip
2	380900 - <u>LLLLL</u> (see Formulas)	3200 Guide, 0.5" (13mm) HS
3	41-00-24	Side Wiper Nylatron (per foot)
4	639971M	Single Drop-in Tee Bar
5	920694M	Socket Head Screw M6 x 20mm

#### Length Formulas

<u>LLLLL</u> =	•	eyor Length XXXX) X 12 – Tail Factor of Sections of Conveyor
Tail Factor =	00000	for center drive with transfer tail both ends
	00100	for end drive with one transfer tail
	00200	for end drive and center drives with standard tails
	00325	for All Cleated Conveyors
# of Conveyor Sections =		(Conveyor Length <u>XXXX</u> – 0100)
		1200

XXXX = Conveyor Length (XX.XX ft)

#### Example

17'4" End Drive Conveyor with Standard Tails Conveyor Length = 1733 Tail Factor = 00200 # of Sections (round up)=  $\frac{(1733 - 0100)}{1200}$  = 1.36 = 2 Sections LLLLL =  $\frac{(1733 \times 12) - 00200}{2}$  = 10298

## -09 Low to High Side



Item	Part Number	Description
1	200121	Guide Retaining Clip
2	380900- <u>LLLLL</u> (see Formulas)	2200 Guide, 0.5" (13mm) HS
3	639971M	Single Drop-in Tee Bar
4	920694M	Socket Head Screw M6 x 20mm

#### Length Formulas

<u>LLLLL</u> =	·	eyor Length <u>XXXX</u> ) X 12 – Tail Factor
Tail Factor =	00000	for center drive with transfer tail both ends
	00100	for end drive with one transfer tail
	00200	for end drive and center drives with standard tails
	00325	for All Cleated Conveyors
# of Conveyor Sections = (Conveyor Length XXXX – 0100)		
# of conveyor sections =		1200
XXXX = Conveyor Length (XX.XX ft)		

#### Example

17'4" End Drive Conveyor with Standard Tails Conveyor Length = 1733 Tail Factor = 00200 # of Sections (round up)=  $\frac{(1733 - 0100)}{1200}$  = 1.36 = 2 Sections <u>LLLLL</u> =  $\frac{(1733 \times 12) - 00200}{2}$  = 10298

## -10.5" (13mm) Extruded Plastic



Item	Part Number	Description
1	200121	Guide Retaining Clip
2	200054P	Snap-On Guide (per foot)
3	3810000 - <u>LLLLL</u> (see Formulas)	2200 Guide
4	639971M	Single Drop-in Tee Bar
5	920694M	Socket Head Screw M6 x 20mm

#### Length Formulas

<u>LLLLL</u> =	·	eyor Length XXXX) X 12 – Tail Factor of Sections of Conveyor
Tail Factor =	00000	for center drive with transfer tail both ends
	00100	for end drive with one transfer tail
	00200	for end drive and center drives with standard tails
	00325	for All Cleated Conveyors
# of Conveyor Sections =		(Conveyor Length <u>XXXX</u> – 0100)
		1200

XXXX = Conveyor Length (XX.XX ft)

#### Example

17'4" End Drive Conveyor with Standard Tails Conveyor Length = 1733 Tail Factor = 00200 # of Sections (round up)=  $\frac{(1733 - 0100)}{1200} = 1.36 = 2$  Sections <u>LLLLL</u> =  $\frac{(1733 \times 12) - 00200}{2} = 10298$ 

## -13 Adjustable Guiding



Item	Part Number	Description
1	202983	Aluminum Profile Guide 2' (610mm)
	202984	Aluminum Profile Guide 3' (914mm)
	202985	Aluminum Profile Guide 4' (1219mm)
	202986	Aluminum Profile Guide 5' (1524mm)
	202987	Aluminum Profile Guide 6' (1829mm)
	202988	Aluminum Profile Guide 7' (2134mm)
	202989	Aluminum Profile Guide 8' (2438mm)
	202990	Aluminum Profile Guide 9' (2743mm)
	202991	Aluminum Profile Guide 10' (3048mm)
	202992	Aluminum Profile Guide 11' (3353mm)
	202993	Aluminum Profile Guide 12' (3658mm)
	202994	Aluminum Profile Guide 13' (3962mm)

ltem	Part Number	Description
2	200830M	Drop-In Tee Bar
3	202004	Mounting Bracket
4	202027M	Guide Mounting Shaft Vertical
5	202028M	Guide Mounting Shaft Horizontal
6	674175MP	Square Nut
7	807-652	Cross Block
8	807-948	Vinyl Shaft Cap
9	614068P	Flat Extruded Guide (per foot)
10	920612M	Socket Head Screw M6 x 12mm
11	920616M	Socket Head Screw M6 x 16mm




Item	Part Number	Description
1	807-948	Shaft Cap
2	807-1470	Cross Block
3	200830M	Drop-In Tee Bar
4	202004M	Mounting Bracket
5	202027M	Vertical Mounting Guide Shaft
6	202028M	Horizontal Mounting Guide Shaft

Item	Part Number	Description	
7	674175MP	Square Nut, M6-1.00	
8	920612M	Socket Head Screw, M6-1.00 x 12 mm	
9	920616M	Socket Head Screw, M6-1.00 x 16 mm	
10	460063- <u>LLLLL</u>	Aluminum Profile Guide	
11	614068P- <u>LLLLL</u>	Extruded Guide	
LLLLL	LLLLL = Length in inches with 2 decimal places.		
Length Example: Length = 95.25" LLLLL = 09525			

### 0.5" (13mm) Cleated Guiding



Item	Part Number	Description
1	200121	Guide Retaining Clip
2	381600- <u>LLLLL</u> (see Formulas)	2200 Guide, 0.47" (13mm) Cleated
3	639971M	Drop-In Tee Bar
4	920694M	Socket Head Screw M6 x 20mm

#### Length Formulas

<u>LLLLL</u> =		eyor Length XXXX) X 12 – Tail Factor
Tail Factor =	00000	for center drive with transfer tail both ends
	00100	for end drive with one transfer tail
	00200	for end drive and center drives with standard tails
	00325	for All Cleated Conveyors
# of Conveyor Sections =		(Conveyor Length <u>XXXX</u> – 0100)
		1200

XXXX = Conveyor Length (XX.XX ft)

#### Example

17'4" End Drive Conveyor with Standard Tails Conveyor Length = 1733 Tail Factor = 00200 # of Sections (round up)=  $\frac{(1733 - 0100)}{1200}$  = 1.36 = 2 Sections <u>LLLLL</u> =  $\frac{(1733 \times 12) - 00200}{2}$  = 10298

## 1" (25mm) Cleated Guiding



ltem	Part Number	Description
1	200121	Guide Retaining Clip
2	See Chart Below	3200 Guide 1" (25mm) Cleated
3	639971M	Drop-In Tee Bar
4	920694M	Socket Head Screw M6 x 20mm

Item 2: 3200 Guide			
# of Sections (see Formulas)		End Guide (for <u>LLLLL</u> See Formulas)	
1	Each Side	381735- <u>LLLLL</u>	
2	Left Hand	381736- <u>LLLLL</u>	
	Right Hand	381737- <u>LLLLL</u>	
3 or More	Left Hand	381736- <u>LLLLL</u>	
	Middle Sections	381700- <u>LLLLL</u>	
	Right Hand	381737- <u>LLLLL</u>	

#### Length Formulas

LLLLL =	(Conv	eyor Length XXXX) X 12 – Tail Factor	
	#	of Sections of Conveyor	
Tail Factor =	00000	for center drive with transfer tail both ends	
	00100	for end drive with one transfer tail	
	00200	for end drive and center drives with standard tails	
	00325	for All Cleated Conveyors	
# of Convoyor	Castiana	(Conveyor Length <u>XXXX</u> – 0100)	
# of Conveyor Sections =		1200	
XXXX - Convoyor Longth (XX XX ft)			

XXXX = Conveyor Length (XX.XX ft)

#### Example

17'4" End Drive Conveyor with Standard Tails Conveyor Length = 1733 Tail Factor = 00200

# of Sections (round up)= 
$$\frac{(1733 - 0100)}{1200}$$
 = 1.36 = 2 Sections  
LLLLL =  $\frac{(1733 \times 12) - 00200}{2}$  = 10298

### 2" (51mm) Cleated Guiding



Item	Part Number	Description
1	200121	Guide Retaining Clip
2	See Chart Below	3200 Guide 2.3" Cleated
3	639971M	Drop-In Tee Bar
4	920694M	Socket Head Screw M6 x 20mm

Item 2: 3200 Guide			
# of Sections (see Formulas)		End Guide (for <u>LLLLL</u> See Formulas)	
1	Each Side	381935- <u>LLLLL</u>	
2	Left Hand	381936- <u>LLLLL</u>	
	Right Hand	381937- <u>LLLLL</u>	
3 or More	Left Hand	381936- <u>LLLLL</u>	
	Middle Sections	381900- <u>LLLLL</u>	
	Right Hand	381937- <u>LLLLL</u>	

#### Length Formulas

LLLLL =	(Conveyor Length XXXX) X 12 – Tail		
	#	of Sections of Conveyor	
Tail Factor =	00000	for center drive with transfer tail both ends	
	00100	for end drive with one transfer tail	
	00200	for end drive and center drives with standard tails	
	00325	for All Cleated Conveyors	
	0	(Conveyor Length XXXX – 0100)	
# of Conveyor Sections =		1200	
XXXX = Conveyor Length (XX.XX ft)			

#### Example

17'4" End Drive Conveyor with Standard Tails Conveyor Length = 1733 Tail Factor = 00200

# of Sections (round up)= 
$$\frac{(1733 - 0100)}{1200}$$
 = 1.36 = 2 Sections  
(1733 x 12) - 00200

$$\frac{\text{LLLLL}}{2} = \frac{(1733 \times 12) - 00200}{2} = 10298$$

Figure 75

### Flared Side Guiding



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

Item	Part Number	Description
3	202522M	Flared Guide 45° 2' (610mm)
	202523M	Flared Guide 45° 3' (914mm)
	202524M	Flared Guide 45° 4' (1219mm)
	202525M	Flared Guide 45° 5' (1524mm)
	202526M	Flared Guide 45° 6' (1829mm)
4	639971	Drop-In Tee Bar
5	910506M	Button Head Screw M5 x 6mm
6	911-512	Washer
7	920694M	Cap Low-Head Screw M6 x 20mm

### Flat Belt Mounting Brackets



Item	Part Number	Description		Description		ltem	Part Number	Description
1	240831	Stand Mount		4	807-920	Square Nut M6 5mm x 10mm		
2	300150M	Drop-In Tee Bar		5	920620M	Socket Head Screw M6 x 20mm		
3	605279P	Washer	6	6	920692M	Socket Head Screw M6 x 12mm		

#### **Cleated Belt Mounting Brackets**



Item	Part Number	Description	Item	Part Number	Description
1	240836	Cleated Mounting Assembly	4	807-920	Square Nut M6 5mm x 10mm
2	300150M	Drop-In Tee Bar	5	920620M	Socket Head Screw M6 x 20mm
3	605279P	Washer	6	920692M	Socket Head Screw M6 x 12mm

### Connecting Assembly without Stand Mount

1		0	000	3
 Part Number	Description	Item	Part Number	Description

Flat Belt	Connecting	Assembly	with	Stand	Mount
	connecting	ASSCIIDIN	VVILII	Otaria	wound

Intermediate Clamp Plate



Item	Part Number	Description
1	240858	Frame Connector Bar
2	240837	Stand Mount Joint
3	605279P	Washer

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

2

240859

### **Cleated Belt Connecting Assembly with Stand Mount**



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

### 4" (102mm) to 6" (152mm) Flat Belt Return Roller



Item	Part Number	Description	Item	Part Number	Description	
1	240825	Return Roller Guard - Short	5	920693M	Socket Low Head Screw M6 x 16mm	
2	240827	Return Roller Clip	6	240840	Roller Assembly (Includes Items 1, 3	
3	802-027	Bearing			and 4)	
4	913-100	Dowel Pin	7	240830	Flat Belt Return Roller Assy	

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



Item	Part Number	Description		Item	Part Number	Description		
1	240826	Return Roller Bearing		4	2410 <u>WW</u>	Return Roller Rod		
				5	920693M	Socket Head Screw M6 x 16mm		
2	240827	Return Roller Clip	6 3249 <u>WW</u> Flat Belt Return Roller Assem		Flat Belt Return Roller Assembly			
3	2409 <u>WW</u>	Return Roller Guard		<u>WW</u> = Conveyor width reference: 08 - 24 in 02 increments				

#### **Cleated Belt Return Roller**



Item	Part Number	Description
1	240825	Return Roller Guard - Short
2	240828	Cleated Return Roller Clip
3	802-027	Bearing
4	913-100	Dowel Pin

Item	Part Number	Description
5	920693M	Socket Low Head Screw M6 x 16mm
6 <b>D</b>	240840	Roller Assembly (Includes Items 1, 3 and 4)
7	240832	Cleated Belt Return Roller Assembly

### **Conveyor Belt Part Number Configuration**



Figure 76

#### Flat Belt Part Number Configuration

Refer to Dorner patent plate (Figure 76). From the model number, determine tail type ("T"), width ("WW"), length ("LLLL"), splice type ("S") and belt type ("B"). Use data to configure belt part number as indicated below. \*Add "V" for V-guided belts.



#### **Cleated Belt Part Number Configuration**

Refer to Dorner patent plate (Figure 76). From the model number determine, cleated belt ("T"), width ("WW"), length ("LLLL"), cleat type ("C"), and cleat spacing ("SSSS"). Use data to configure belt part number as indicated below. \*Add "V" for V-guided belt.

#### 3 T – <u>WW</u> <u>LLLL</u> C SSSS V\*



## Notes

## **Return Policy**

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

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

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization (RMA) number for reference. RMA will automatically close 30 days after being issued. To get credit, items must be new and undamaged. There will be a return charge on all items returned for credit, where Dorner was not at fault. It is the customer's responsibility to prevent damage during return shipping. Damaged or modified items will not be accepted. The customer is responsible for return freight.

					Product	Туре			
	Standard Products								Engineered to order parts
Product Line	Conveyors	Gearmotors & Mounting Packages	Support Stands	Accessories	Spare Parts (non-belt)	Spare Belts - Standard Flat Fabric	Spare Belts - Cleated & Specialty Fabric	Spare Belts - Plastic Chain	All equipment and parts
1100									
2200									
2200 Modular Belt									
2200 Precision Move									
2300									
2300 Modular Belt									case-by-case
3200		30% re	turn fee fo	or all products	except:				
3200 LPZ		cle	ated belt	nveyors with r or specialty b	elts		non-re	turnable	
3200 Precision Move									
4100									
5200									
5300									
6200									
Controls									
7200 / 7300		50%	% return f	ee for all prod	ucts		1		
7350									•
7360	1	non-returnable							
7400					non-retui	nable			
7600									

Returns will not be accepted after 60 days from original invoice date. The return charge covers inspection, cleaning, disassembly, disposal and reissuing of components to inventory. If a replacement is needed prior to evaluation of returned item, a purchase order must be issued. Credit (if any) is issued only after return and evaluation is complete.

Dorner has representatives throughout the world. Contact Dorner for the name of your local representative. Our Customer Service Team will gladly help with your questions on Dorner products.

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

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



Dorner Mfg. Corp. reserves the right to change or discontinue products without notice. All products and services are covered in accordance with our standard warranty. All rights reserved. © Dorner Mfg. Corp. 2013

#### DORNER MFG. CORP.

975 Cottonwood Ave., PO Box 20 Hartland, WI 53029-0020 USA TEL 1-800-397-8664 (USA) FAX 1-800-369-2440 (USA) Internet: www.dorner.com

Outside the USA: TEL 1-262-367-7600 FAX 1-262-367-5827