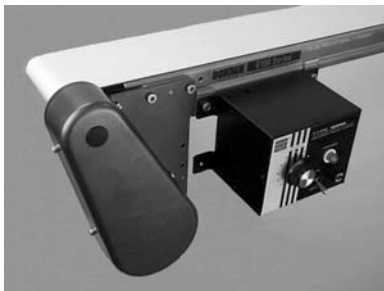




# 2100, 2200, 4100, 6200 and MPB Series Bottom Mount Drive Package for Light Load 60 Hz Gearmotors

Installation Maintenance & Parts Manual



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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 2100 Series conveyors are covered by the following patent numbers: 5,131,529, 5,174,435, and corresponding patents and patent applications in other countries.


Dorner 2200 and MPB Series conveyors are covered by patent number 5,174,435, 6,422,382 and corresponding patents and patent applications in other countries.

Dorner 4100 Series conveyors are covered by patent number 3,923,148, 5,131,529 and corresponding patents and patent applications in other countries.

Dorner 6200 Series conveyors are covered by patent number 6,685,009, 5,174,435, 6,109,427, 6,298,981 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.

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 .

## Warnings – General Safety

### WARNING

The safety alert symbol, black triangle with white exclamation, is used to alert you to potential personal injury hazards.

### DANGER



Climbing, sitting, walking or riding on conveyor will cause severe injury. **KEEP OFF CONVEYORS.**

### DANGER



**DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.**

### DANGER



Hazardous voltage will cause severe injury or death. **LOCK OUT POWER BEFORE WIRING.**

### WARNING



Gearmotors may be **HOT**.  
**DO NOT TOUCH** Gearmotors.

### WARNING



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

### WARNING



Dorner cannot control the physical installation and application of conveyors. Taking protective measures is the responsibility of the user.

When conveyors are used in conjunction with other equipment or as part of a multiple conveyor system, **CHECK FOR POTENTIAL PINCH POINTS** and other mechanical hazards before system startup.

### WARNING



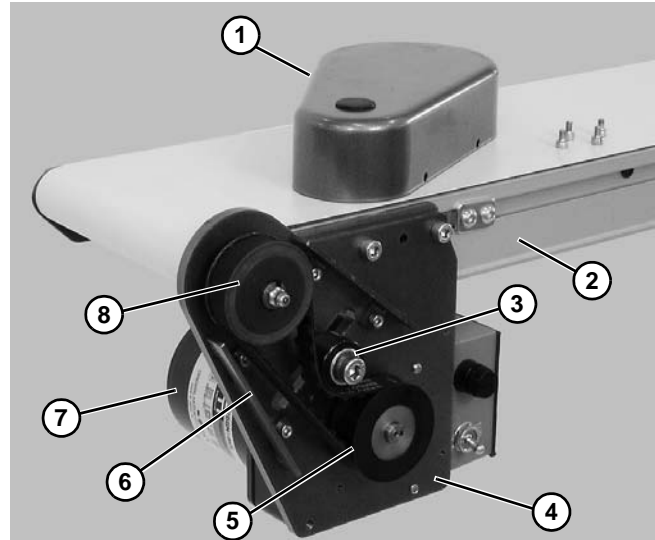
MPB Series Conveyors are not reversible. Reversing creates pinch points which can cause severe injury.

**DO NOT REVERSE MPB SERIES CONVEYORS.**

# Product Description

Refer to **Figure 1** for typical components.

- |   |                  |
|---|------------------|
| 1 | Cover            |
| 2 | Conveyor         |
| 3 | Belt Tensioner   |
| 4 | Mounting Bracket |
| 5 | Drive Pulley     |
| 6 | Timing Belt      |
| 7 | Gearmotor        |
| 8 | Driven Pulley    |



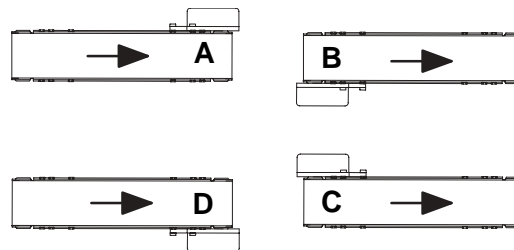
**Figure 1**

# Specifications

## Gearmotor Mounting Package Models:

Example:

- 2 M B P L WW A - 32 32
- 2 = 2100 Series Conveyor
  - 22 = 2200 Series Conveyor
  - 4 = 4100 Series Conveyor
  - 6 = 6200 Series Conveyor
  - 2P = MPB Series Conveyor
  - M = U.S. English
  - B = Bottom Mount
  - P = Parallel Shaft
  - L = Fixed Speed
  - V = Variable Speed
  - A = Brushless DC
  - WW = Conveyor Width Reference\*
  - A = Mount Position = A, B, C or D (see detail to the right)
  - = Belt Type: - = flat belt, A through J = cleated belt
  - 32 = Drive Pulley (see Belt Speed Tables)
  - 32 = Driven Pulley (see Belt Speed Tables)



\* See "Ordering and Specifications" Catalog for details.

\* See "Ordering and Specifications" Catalog for details.

**Table 1: Gearmotor Specifications**

|                   | Single Phase       | DC Variable Speed | Brushless DC        |
|-------------------|--------------------|-------------------|---------------------|
| Output Power      | 0.03 hp (0.025 kw) | 0.06 hp (0.04 kw) | 0.083 hp (0.06 kw)  |
| Input Voltage     | 115 Volts A.C.     | 130 Volts D.C.    | *115/230 Volts D.C. |
| Input Frequency   | 60 Hz              | N/A               | 60 Hz               |
| Full Load Amperes | 0.49 Amperes       | 0.48 Amperes      | 4.5/1.5 Amperes     |
| Gearmotor Ratios  | 15:1 and 36:1      | 18:1 and 60:1     | 15:1, 20:1 and 50:1 |

\* Controller Inputs

**Table 2: RPM/Torque for Light Load Fixed Speed Parallel Shaft 60 Hz Gearmotors**

| Gearmotors* |            |     |       |     |
|-------------|------------|-----|-------|-----|
| Part Number | Gear Ratio | RPM | In-lb | N-m |
| 62M036PL4FN | 36:1       | 42  | 36    | 4.1 |
| 62M015PL4FN | 15:1       | 100 | 15    | 1.7 |

\* 115V, 1 phase, non-reversing

**Table 3: RPM/Torque for Light Load Variable Speed Parallel Shaft DC Gearmotors**

| Gearmotors*   |            |        |       |     |
|---------------|------------|--------|-------|-----|
| Part Number   | Gear Ratio | RPM    | In-lb | N-m |
| 62M060PLD3DEN | 60:1       | 5-42   | 65    | 7.4 |
| 62M018PLD3DEN | 18:1       | 17-139 | 21    | 2.4 |

\* 130VDC

**Table 4: RPM/Torque for Light Load Brushless DC Gearmotors**

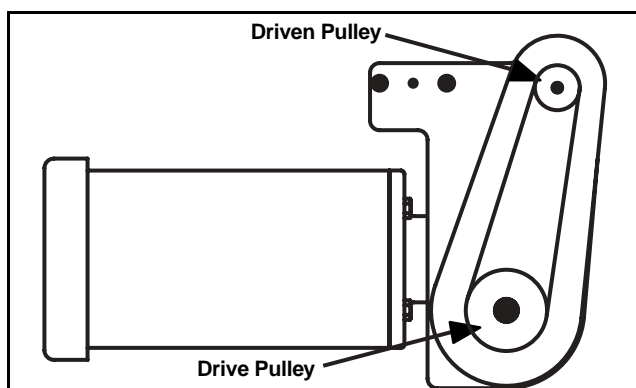
| Gearmotors*   |            |       |       |     |
|---------------|------------|-------|-------|-----|
| Part Number   | Gear Ratio | RPM   | In-lb | N-m |
| 62M050PLBDDEN | 50:1       | 2-60  | 76    | 8.6 |
| 62M020PLBDDEN | 20:1       | 5-150 | 31    | 3.6 |
| 62M015PLBDDEN | 15:1       | 7-200 | 23    | 2.7 |

\* 130VDC

# Specifications

**Table 5: Pulley Ratio/Timing Belt Number**

| Motor (Drive) Pulley Teeth | Conveyor (Driven) Pulley Teeth | Pulley Ratio | Timing Belt            |                          |                     |                        |
|----------------------------|--------------------------------|--------------|------------------------|--------------------------|---------------------|------------------------|
|                            |                                |              | Flat Belt 2200/ MB/MPB | Cleated Belt 2200/MB/MPB | Flat Belt 4100/6200 | Cleated Belt 4100/6200 |
| 19                         | 32                             | 0.59         | N/A                    | N/A                      | 814-119             | 814-104                |
| 22                         | 32                             | 0.69         | N/A                    | N/A                      | 814-106             | 814-105                |
| 28                         | 22                             | 1.27         | N/A                    | N/A                      | 814-107             | 814-104                |
| 28                         | 28                             | 1.00         | 814-103                | 814-105                  | N/A                 | N/A                    |
| 28                         | 32                             | 0.88         | 814-103                | 814-105                  | 814-100             | 814-065                |
| 32                         | 19                             | 1.68         | 814-119                | 814-104                  | 814-119             | 814-104                |
| 32                         | 22                             | 1.45         | 814-119                | 814-104                  | 814-103             | 814-105                |
| 32                         | 28                             | 1.14         | 814-103                | 814-105                  | 814-100             | 814-065                |
| 44                         | 19                             | 2.32         | 814-100                | 814-065                  | 814-096             | 814-101                |
| 44                         | 22                             | 2.00         | 814-096                | 814-101                  | 814-096             | 814-101                |
| 44                         | 28                             | 1.57         | 814-096                | 814-101                  | 814-104             | 814-101                |
| 44                         | 32                             | 1.38         | N/A                    | N/A                      | 814-105             | 814-064                |



**Figure 2**

**Table 6: Conveyor Belt Speed Factor**

| Series                    | Ft/revolution | M/revolution |
|---------------------------|---------------|--------------|
| 2200 / 2300               | 0.350         | 0.107        |
| 2100 / 4100 / 6100 / 6200 | 0.278         | 0.085        |
| 2200 MPB                  | 0.590         | 0.180        |
| 2200 Precision Move       | 0.394         | 0.120        |
| 2200 / 2300 Modular Belt  | 0.394         | 0.120        |

## Belt Speed Calculation:

### How to Calculate Belt Speed

1. Determine gearmotor RPM from tables 2-4.
2. Determine the pulley kit ratio. Count the number of teeth on the drive and driven pulleys following figure 2. Using table 5, look up pulley ratio based on pulley combinations.
3. Determine conveyor speed factor using table 6. Based on your conveyor type, select the appropriate factor.
4. Calculate belt speed:

Example: Belt Speed = Gearmotor RPM (tables 2-4) x Pulley Kit Ratio (table 5) x Conveyor Speed Factor (table 6)

2200 Series light load variable speed 60:1 gearmotor with 22 tooth sprocket on gearmotor (Drive) and 32 tooth sprocket on the conveyor output shaft (Driven).

|                      |                        |                        |
|----------------------|------------------------|------------------------|
| Gearmotor =          | 62M060PLD3DEN          | = 5 - 42 RPM           |
| Pulley Kit =         | 22 t mtr. - 32 t conv. | = 0.69                 |
| Speed Factor =       | 2200 Series            | = 0.350 ft/min per RPM |
| Minimum Belt Speed = | 5 x 0.69 x 0.350       | = 1.2 Ft/min           |
| Maximum Belt Speed = | 42 x 0.69 x 0.350      | = 10.1 Ft/min          |


## Required Tools


- Hex key wrenches:  
2.5 mm, 3 mm & 5 mm
- Torque wrench

### Installation Component List:

|   |                            |
|---|----------------------------|
| 1 | Bottom Mount Assembly      |
| 2 | Cover                      |
| 3 | M4 Socket Head Screws (4x) |
| 4 | Driven Pulley              |
| 5 | M6 Socket Head Screws (2x) |
| 6 | Key                        |
| 7 | Timing Belt                |

## Mounting

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

|  |
|--|
| <b>⚠ WARNING</b>   |
|   |
| <b>MPB Series Conveyors are not reversible. Reversing creates pinch points which can cause severe injury. DO NOT REVERSE MPB SERIES CONVEYORS.</b> |

### 1. Typical components (Figure 3)

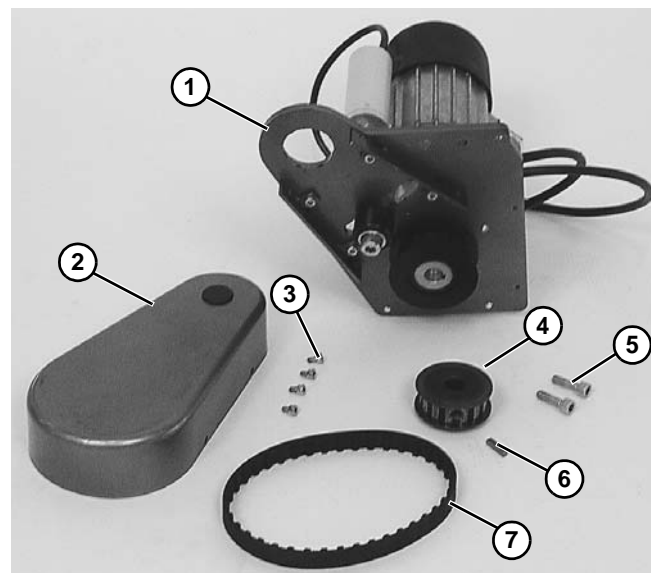


Figure 3

|   |
|---|
| <b>NOTE</b>                                       |
| <i>6200 conveyor shown, other Series similar.</i> |

2. Locate drive output shaft (Figure 4, item 1) and remove two screws (Figure 4, item 2).

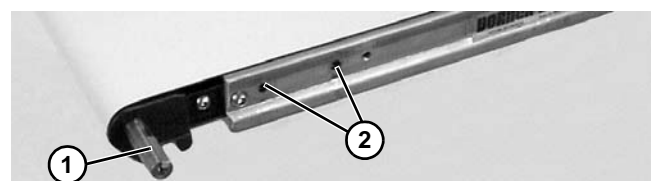


Figure 4

3. Install M6x8 socket head screw (Figure 5, item 1) and washer.

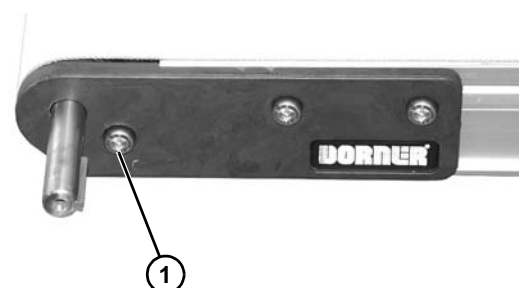
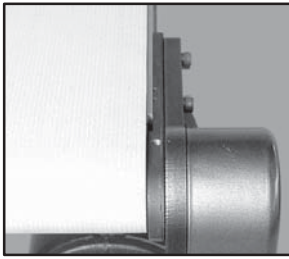


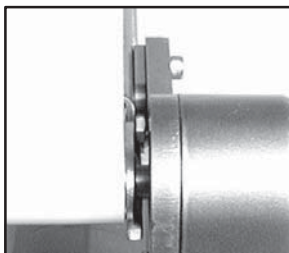
Figure 5

# Installation

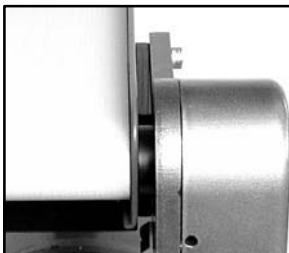
4. For your reference, the following five figures show the attachment area of complete mounting packages for the various conveyor series.



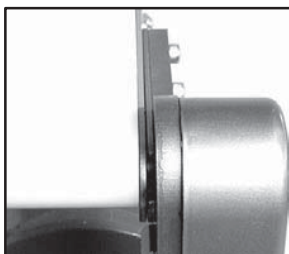
**2200 Series**  
**Figure 6**



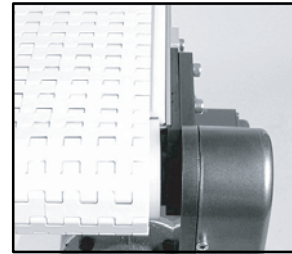
**6200 Series**  
**Figure 7**



**4100 Series**  
**Figure 8**

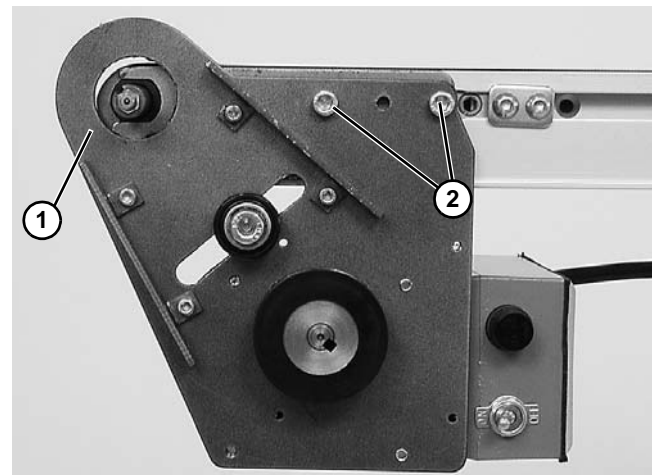


**2100 Series**  
**Figure 9**



**MPB Series**  
**Figure 10**

5. Attach mount assembly (**Figure 11, item 1**) with screws (**Figure 11, item 2**). Tighten screws to 80 in-lb (9 Nm).



**Figure 11**



## ⚠ WARNING



Drive shaft keyway may be sharp.  
HANDLE WITH CARE.

6. Install key (Figure 12, item 1).

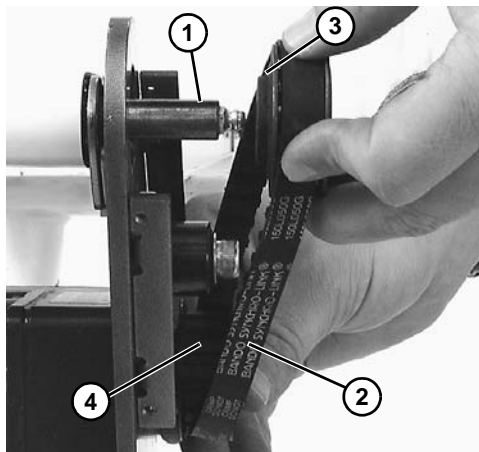


Figure 12

7. Wrap timing belt (Figure 12, item 2) around driven pulley (Figure 12, item 3) and drive pulley (Figure 12, item 4). Install driven pulley (Figure 12, item 3) onto conveyor shaft.
8. Remove cam bearing and spacer (Figure 13, item 1).

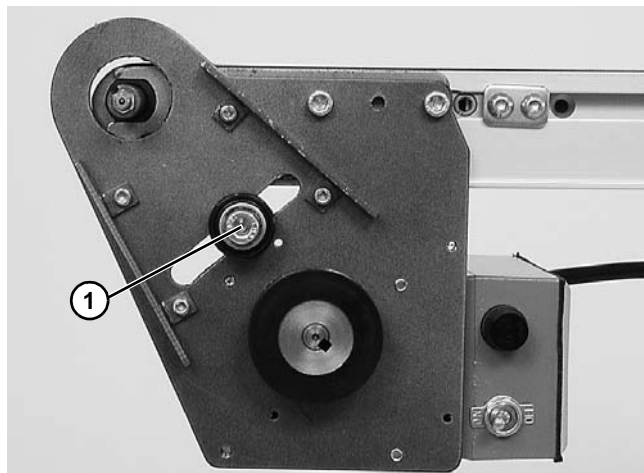


Figure 13

9. Place the cam bearing and spacer (Figure 14, item 1) next to the driven pulley (Figure 14, item 2). Ensure the flanges of the driven pulley are aligned with the cam bearing. Tighten driven pulley set screws (Figure 14, item 3). This will allow for proper belt alignment while conveyor is in use. Replace cam bearing and spacer (Figure 14, item 1).

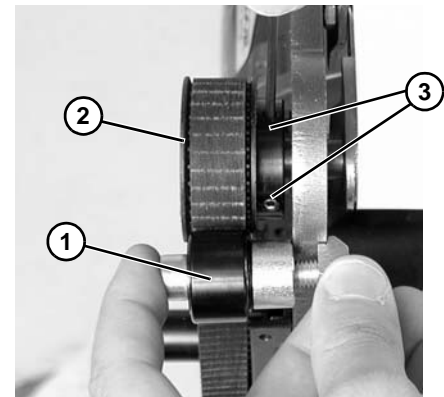


Figure 14

10. Depending on direction of conveyor belt travel (1 or 2 of Figure 15, position timing belt tensioner (Figure 15, item 3) as shown. Tension timing belt to obtain 1/8" (3 mm) deflection for 1 lb (456 grams) of force at timing belt mid-point (Figure 15, item 4). Tighten tensioner screw to 106 in-lb (12 Nm).

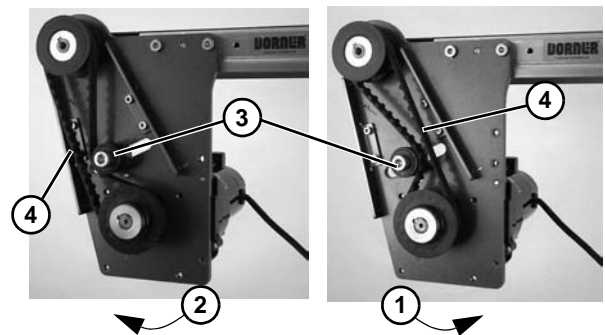


Figure 15

11. Install cover (Figure 16, item 1) with four (4) screws (Figure 16, item 2). Tighten to 35 in-lb (4 Nm).

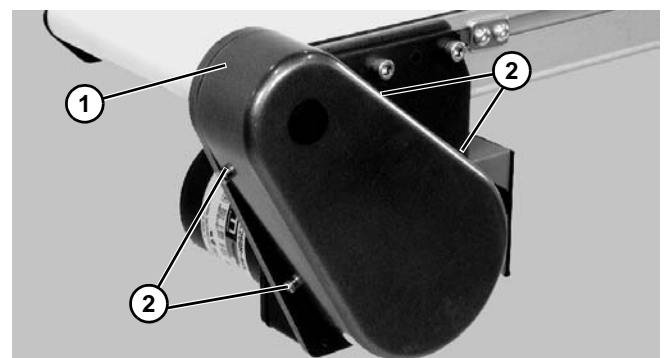



Figure 16

# Preventive Maintenance and Adjustment

## Required Tools

- Hex key wrenches:  
2.5 mm, 3 mm, 5 mm
- Straight edge
- Screwdriver (for terminal box screws)
- Torque wrench

## Timing Belt Tensioning

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

1. Remove four (4) screws (Figure 17, item 1) and remove cover (Figure 17, item 2).

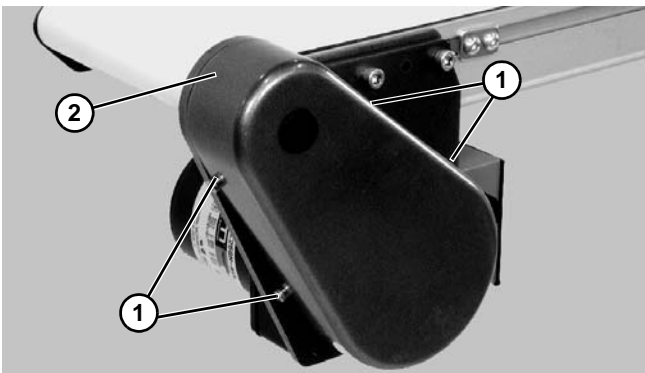


Figure 17

2. Loosen tensioner (Figure 18, item 1).

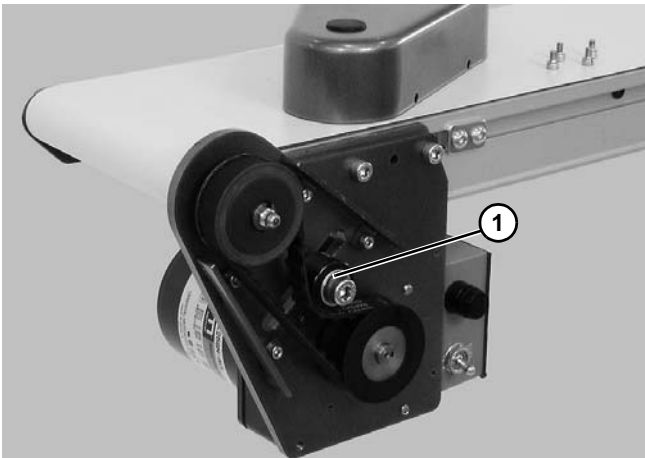


Figure 18

3. Depending on direction of conveyor belt travel (1 or 2 of Figure 19), position timing belt tensioner (Figure 19, item 3) as shown. Tension timing belt to obtain 1/8" (3 mm) deflection for 1 lb (456 grams) of force at timing belt mid-point (Figure 19, item 4). Tighten tensioner screw to 106 in-lb (12 Nm).

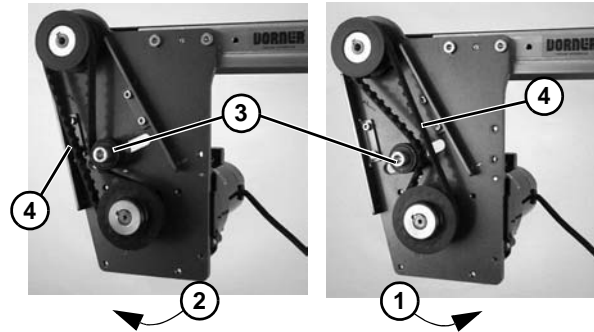



Figure 19

4. Install cover (Figure 17, item 2) with four (4) screws (Figure 17, item 1). Tighten screws to 35 in-lb (4 Nm).

## Timing Belt Replacement

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

1. Remove four (4) screws (Figure 17, item 1) and remove cover (Figure 17, item 2).
2. Loosen tensioner (Figure 18, item 1).
3. Remove timing belt (Figure 20, item 1).

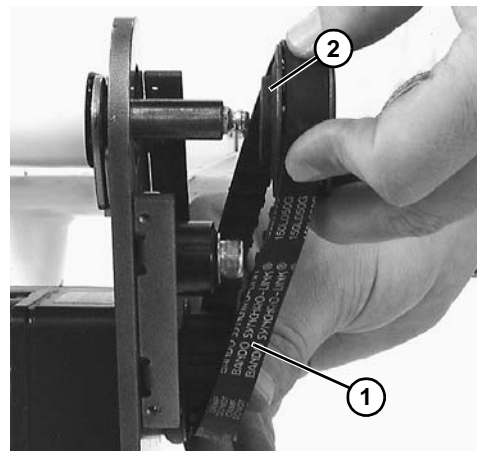


Figure 20

# Preventive Maintenance and Adjustment

## NOTE

If timing belt does not slide over pulley flange, loosen driven pulley set screws (**Figure 20, item 2**) and remove pulley with belt. For re-installation, see steps 6 through 9 on page 9.

4. Install new timing belt.
5. Depending on direction of conveyor belt travel (**Figure 19, item 1** or 2), position timing belt tensioner (**Figure 19, item 3**) as shown. Tension timing belt to obtain 1/8" (3 mm) deflection for 1 lb (456 grams) of force at timing belt mid-point (**Figure 19, item 4**). Tighten tensioner screw to 106 in-lb (12 Nm).
6. Install cover (**Figure 17, item 2**) with four screws (**Figure 17, item 1**). Tighten screws to 35 in-lb (4 Nm).

## Drive or Driven Pulley Replacement

### ⚠ WARNING



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

1. Complete steps 1 through 3 of "Timing Belt Replacement" section on page 10.
2. Loosen set screws and remove drive or driven pulley.

## NOTE

If drive pulley (**Figure 21, item 1**) is replaced, wrap timing belt (**Figure 21, item 2**) around drive pulley and complete step 3.

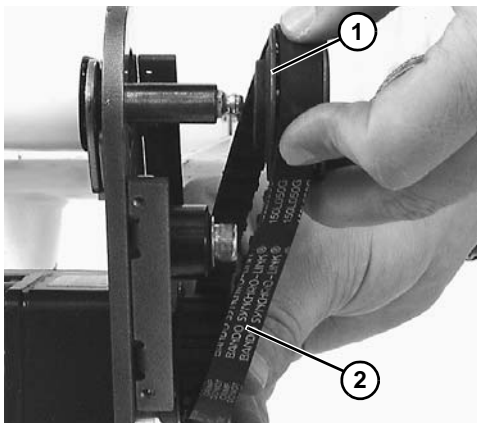


Figure 21

3. Complete steps 6 through 9 of "Installation" section on page 9.

## Gearmotor Replacement

### ⚠ WARNING



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

### ⚠ DANGER



Hazardous voltage will cause severe injury or death. LOCK OUT POWER BEFORE WIRING.

## Single Phase Motor

1. Unplug power cord from outlet.

## DC Variable Speed Motor

1. Unplug motor cord at disconnect (**Figure 22, item 1**).

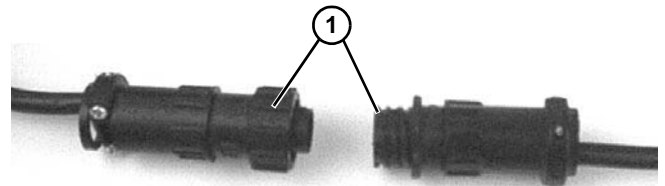


Figure 22

# Preventive Maintenance and Adjustment

## Brushless DC Motor

1. Twist covers (Figure 23, item 1) apart.

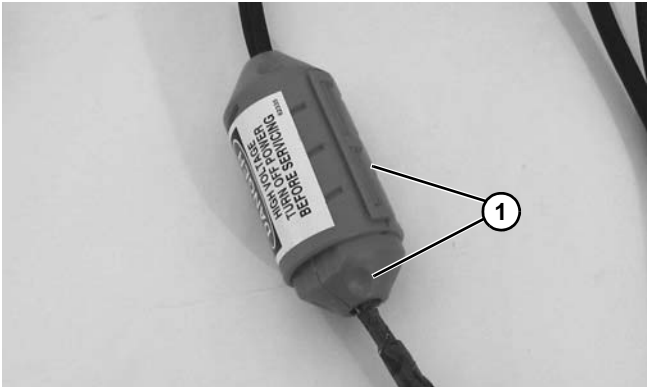


Figure 23

2. Remove outer cord cover (Figure 24, item 1) from inner cord cover (Figure 24, item 2).

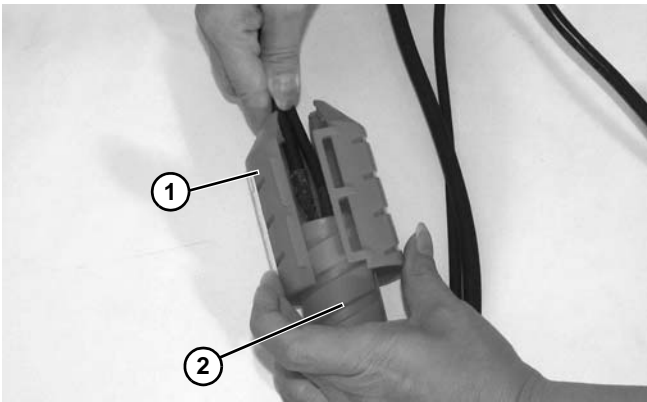


Figure 24

3. Open inner cord cover (Figure 25, item 1).

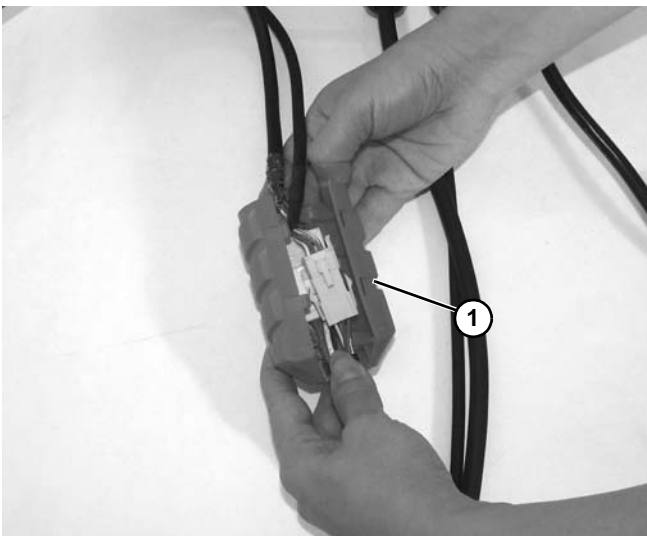


Figure 25

4. Unplug motor cord connectors (Figure 26, item 1) and signal cable connectors (Figure 26, item 2).

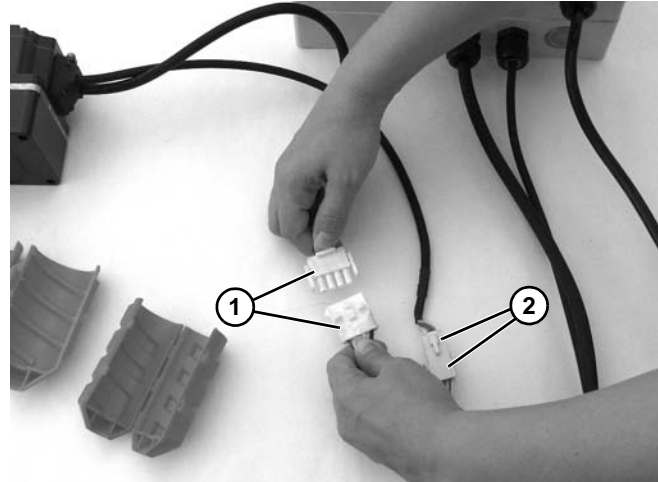


Figure 26

## All Models

1. Remove four screws (Figure 27, item 1) and remove cover (Figure 27, item 2).

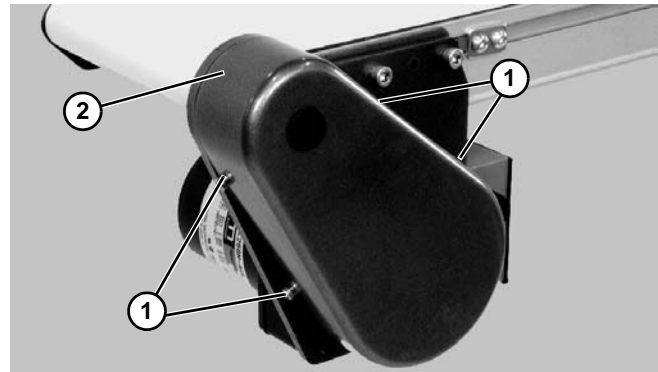


Figure 27

2. Loosen tensioner (Figure 28, item 1).

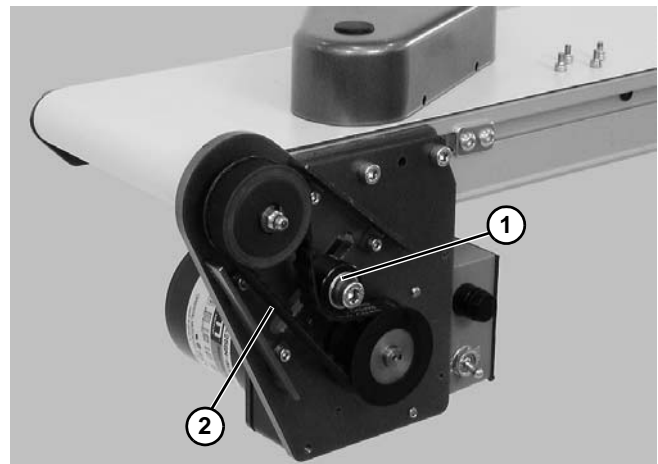


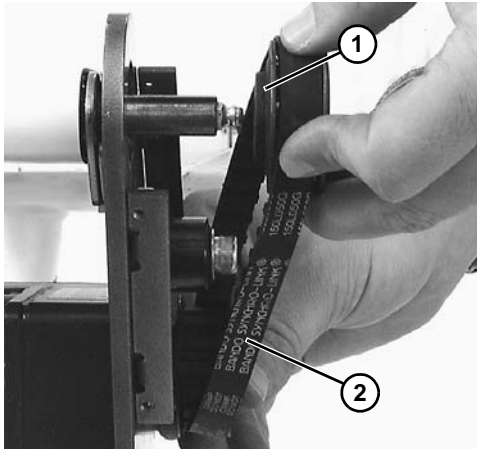
Figure 28

3. Remove timing belt (Figure 28, item 2).

# Preventive Maintenance and Adjustment

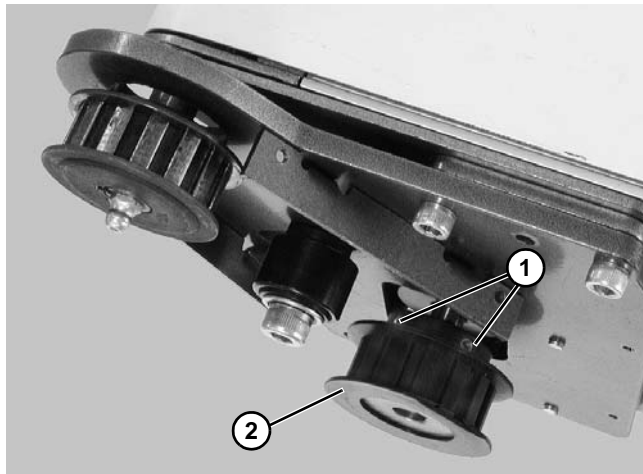
## NOTE

If timing belt does not slide over pulley flange, loosen driven pulley set screws (**Figure 29, item 1**) and remove pulley with belt (**Figure 29, item 2**). For re-installation, see steps 6 through 9 on page 9.



**Figure 29**

4. Loosen two (2) set screws (**Figure 30, item 1**). Remove drive pulley (**Figure 30, item 2**).



**Figure 30**

5. Remove four screws (**Figure 31, item 1**) and detach gearmotor.




**Figure 31**

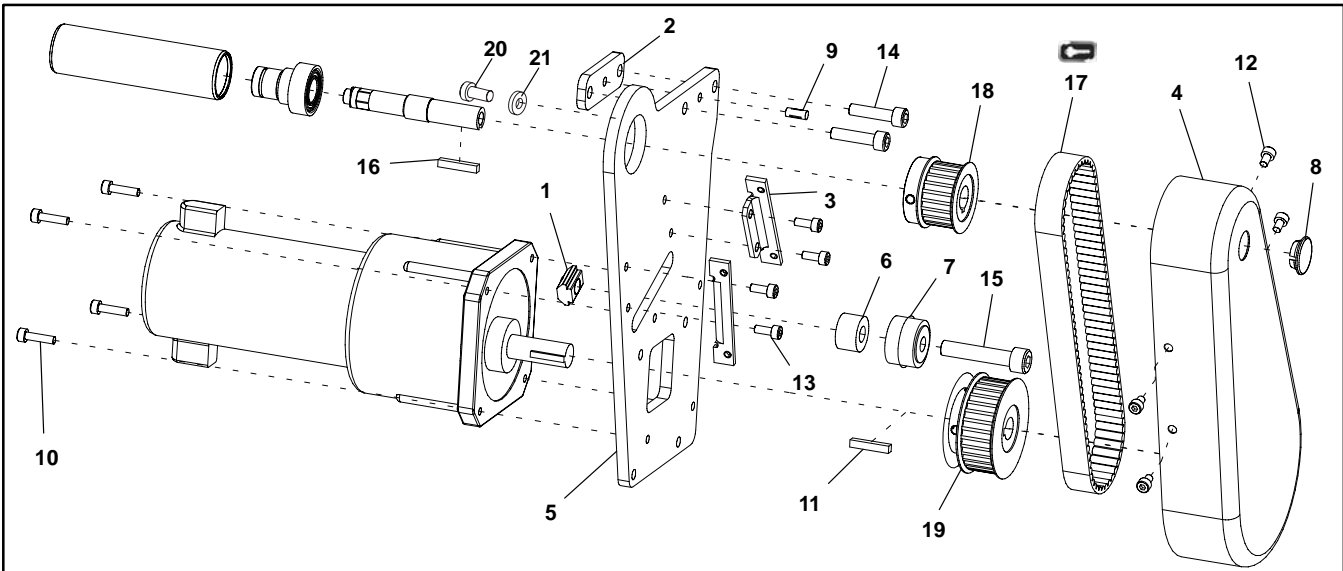
6. Mount new gearmotor with four screws (**Figure 31, item 1**). Tighten to 45 in-lb (5 Nm).
7. Replace drive pulley (**Figure 30, item 2**) and tighten set screws (**Figure 30, item 1**).
8. Complete steps 6 through 9 of “Installation” section on page 9.
9. Replace wiring:
  - For a single phase motor, reverse step 1 in “Single Phase Motor” on page 11.
  - For a DC variable speed motor, reverse step 1 on “DC Variable Speed Motor” on page 11.
  - For a brushless motor, reverse steps 1-2 on “Brushless DC Motor” on page 12.

# Service Parts

## NOTE

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

## 2100, 2200, 4100, 6200 Series and MPB Series Light Load Bottom Mount Drive Package



| Item | Part Number | Description  |
|------|-------------|--|
| 1    | 202390M     | Nut, Cam Follower  |
| 2    | 450027M     | Drive Spacer (2100 – Cleated Belt and all 6200)                        |
|      | 450377M     | Drive Spacer (2100, 2200 and MPB – Flat Belt and all 4100)             |
| 3    | 450047M     | Cover Mounting Bracket (Flat Belt)                                     |
|      | 450375M     | Cover Mounting Bracket (Cleated Belt and MPB)                          |
| 4    | 200376M     | Drive Guard (Flat Belt)  |
|      | 450376M     | Drive Guard (Cleated Belt and MPB)                                     |
| 5    | 450046M     | Light Duty Motor Mount Plate – Short (Flat Belt, except MPB)           |
|      | 450026M     | Light Duty Motor Mount Plate (Cleated Belt and MPB)                    |
|      | 242532      | Flush Top Mount Plate (Flush Drive only)                               |
| 6    | 450445      | Spacer (Fixed Speed Gearmotors only)                                   |
|      | 450195      | Spacer (Variable Speed Gearmotors only)                                |
| 7    | 802-046     | Bearing  |
| 8    | 807-226     | Snap-out Plastic Plug  |
| 9    | 807-952     | Groove Pin (Used with Item 2 Only)                                     |
| 10   | 920545M     | Socket Head Screw M5x45mm – 15:1 Gearhead (Fixed Speed Gearmotor Only) |
|      | 920555M     | Socket Head Screw M5x55mm – 36:1 Gearhead (Fixed Speed Gearmotor Only) |
|      | 920416M     | Socket Head Cap Screw M4x16mm (Variable Speed Gearmotor Only)          |
|      | 920560M     | Socket Head Cap Screw M5x60mm (Brushless DC Gearmotor Only)            |

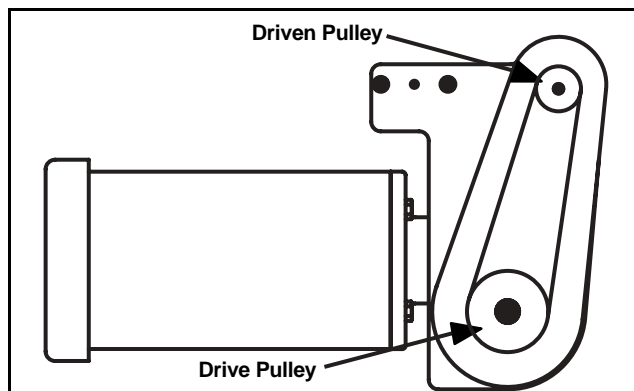
| Item | Part Number | Description   |
|------|-------------|---|
| 11   | 980428M     | Square Key, 0.4mm x 28mm (Fixed Speed Gearmotor)                |
|      | 912-084     | Square Key, 0.125" x 0.75" (Variable Speed Gearmotor)           |
| 12   | 920406M     | Socket Head Screw M4 x 6mm                                      |
|      | 920481M     | Socket Head Screw, M4-.70 x 8 mm                                |
| 13   | 920408M     | Socket Head Screw M4 x 8mm                                      |
| 14   | 920625M     | Socket Head Screw M6 x 25mm (2100)                              |
|      | 920622M     | Socket Head Screw M6 x 22mm (2200 Cleated Belt and Flush Drive) |
|      | 920618M     | Socket Head Screw M6 x 18mm (4100)                              |
|      | 920630M     | Socket Head Screw M6 x 30mm (2200 Flat Belt and all 6200)       |
| 15   | 920840M     | Socket Head Screw M8 x 40mm                                     |
| 16   | 980422M     | Square Key 4mm x 22mm   |
|      | 912-084     | Square Key, 0.125" x 0.75" (1" Wide Conveyor – 4100 Only)       |
| 17   | 814-105     | Timing Belt, 15mm W x 460mm L                                   |
|      | 814-065     | Timing Belt, 15mm W x 475mm L                                   |
|      | 814-101     | Timing Belt, 15mm W x 500mm L                                   |
|      | 814-108     | Timing Belt, 15mm W x 520mm L                                   |
| 18   | 450366MP    | Driven Pulley, 22Tooth, 12mm bore                               |
|      | 450367MP    | Driven Pulley, 28Tooth, 12mm bore                               |
|      | 450368MP    | Driven Pulley, 32Tooth, 12mm bore                               |
|      | 243325      | Driven Pulley, 16Tooth, 12mm bore (Flush Drive only)            |

2100, 2200, 4100, 6200 and MPB Series Bottom Mount Drive Package for Light Load 60 Hz Gearmotors

| Item | Part Number | Description                       |
|------|-------------|-----------------------------------|
| 19   | 450384MP    | Drive Pulley, 22Tooth, 10mm bore  |
|      | 450385MP    | Drive Pulley, 28Tooth, 10mm bore  |
|      | 450386MP    | Drive Pulley, 32Tooth, 10mm bore  |
|      | 450387MP    | Drive Pulley, 44Tooth, 10mm bore  |
|      | 450556P     | Drive Pulley, 22Tooth, 0.5" bore  |
|      | 450556P     | Drive Pulley, 28Tooth, 0.5" bore  |
|      | 450556P     | Drive Pulley, 32Tooth, 0.5" bore  |
|      | 450556P     | Drive Pulley, 44Tooth, 0.5" bore  |
|      | 450405MP    | Drive Pulley, 28Tooth, 15mm bore  |
|      | 450406MP    | Drive Pulley, 22Tooth, 15mm bore  |
| 20   | 920608M     | Socket Head Screw, M6-1.00 x 8 mm |
| 21   | 807-2092    | Washer                            |

## Pulley Ratio / Timing Belt Combinations

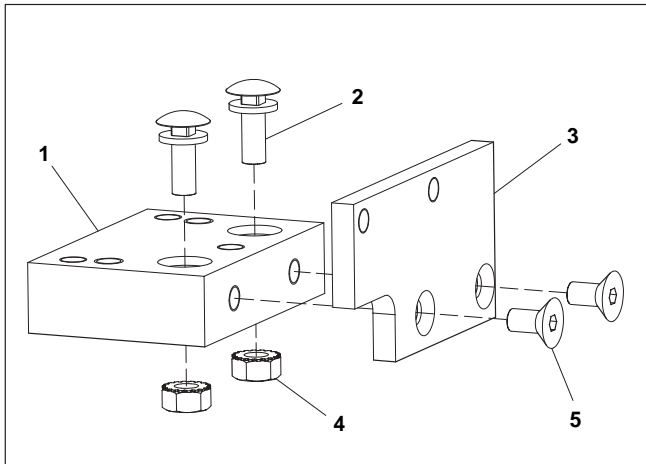
| Motor (Drive) Pulley Teeth | Conveyor (Driven) Pulley Teeth | Pulley Ratio | Timing Belt           |                          |                     |                        |
|----------------------------|--------------------------------|--------------|-----------------------|--------------------------|---------------------|------------------------|
|                            |                                |              | Flat Belt 2200/MB/MPB | Cleated Belt 2200/MB/MPB | Flat Belt 4100/6200 | Cleated Belt 4100/6200 |
| 19                         | 32                             | 0.59         | N/A                   | N/A                      | 814-119             | 814-104                |
| 22                         | 32                             | 0.69         | N/A                   | N/A                      | 814-106             | 814-105                |
| 28                         | 22                             | 1.27         | N/A                   | N/A                      | 814-107             | 814-104                |
| 28                         | 28                             | 1.00         | 814-103               | 814-105                  | N/A                 | N/A                    |
| 28                         | 32                             | 0.88         | 814-103               | 814-105                  | 814-100             | 814-065                |
| 32                         | 19                             | 1.68         | 814-119               | 814-104                  | 814-119             | 814-104                |
| 32                         | 22                             | 1.45         | 814-119               | 814-104                  | 814-103             | 814-105                |
| 32                         | 28                             | 1.14         | 814-103               | 814-105                  | 814-100             | 814-065                |
| 44                         | 19                             | 2.32         | 814-100               | 814-065                  | 814-096             | 814-101                |
| 44                         | 22                             | 2.00         | 814-096               | 814-101                  | 814-096             | 814-101                |
| 44                         | 28                             | 1.57         | 814-096               | 814-101                  | 814-104             | 814-101                |
| 44                         | 32                             | 1.38         | N/A                   | N/A                      | 814-105             | 814-064                |



**Figure 32**

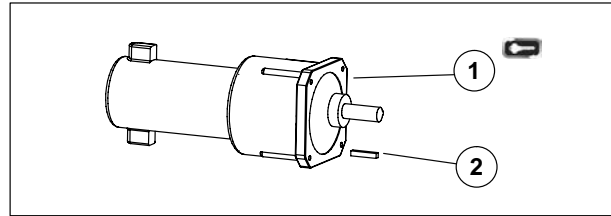
# Service Parts

## 4100 Series Adapter Package



| Item | Part No. | Part Description           |
|------|----------|----------------------------|
| 1    | 609486   | Mounting Block 1" (25mm)   |
|      | 609487   | Mounting Block 2" (51mm)   |
|      | 609488   | Mounting Block 3" (76mm)   |
|      | 609479   | Mounting Block 4" (102mm)  |
|      | 609480   | Mounting Block 5" (127mm)  |
|      | 609481   | Mounting Block 6" (152mm)  |
|      | 609482   | Mounting Block 7" (178mm)  |
|      | 609483   | Mounting Block 8" (203mm)  |
|      | 609484   | Mounting Block 10" (254mm) |
|      | 609485   | Mounting Block 12" (305mm) |
|      | 2        | 613602P                    |
| 3    | 450374   | Drive Adapter Plate        |
| 4    | 910-126  | Hex Nut with Lock Washer   |
| 5    | 930612M  | Flat Head Screw M6 x 12mm  |

## Gearmotors



| Item | Part No.      | Part Description  |                             |
|------|---------------|---|-----------------------------|
| 1    | 62M036PL411FN | Gearmotor, 0.03 hp, 115 Volts, 42 RPM, 60 Hz, 1-Phase, 36:1     |                             |
|      | 62M015PL411FN | Gearmotor, 0.03 hp, 115 Volts, 100 RPM, 60 Hz, 1-Phase, 15:1    |                             |
|      | 62M060PLD3DEN | Gearmotor, 0.06 hp, 130 Volts, 42 RPM, DC, 60:1                 |                             |
|      | 62M018PLD3DEN | Gearmotor, 0.06 hp, 130 Volts, 139 RPM, DC, 18:1                |                             |
|      | 62M036PL423FN | Gearmotor, 0.03 hp, 230 Volts, 42 RPM, 60 Hz, 3-Phase, 36:1     |                             |
|      | 62M015PL423FN | Gearmotor, 0.03 hp, 230 Volts, 100 RPM, 60 Hz, 3-Phase, 15:1    |                             |
|      | 62M036PL423EN | Gearmotor, 0.03 hp, 230 Volts, 7-42 RPM, 60 Hz, 3-Phase, 36:1   |                             |
|      | 62M015PL423EN | Gearmotor, 0.03 hp, 230 Volts, 17-100 RPM, 60 Hz, 3-Phase, 15:1 |                             |
|      | 62M050PLBDDEN | Gearmotor, 0.083 hp, 60 RPM, Brushless DC, 50:1                 |                             |
|      | 62M020PLBDDEN | Gearmotor, 0.083 hp, 150 RPM, Brushless DC, 20:1                |                             |
|      | 62M015PLBDDEN | Gearmotor, 0.083 hp, 200 RPM, Brushless DC, 15:1                |                             |
|      | 2             | 980422M   | Key, 4mm x 22mm, 10mm Bore  |
|      |               | 912-052   | Key, 1/8" x 5/8", 1/2" Bore |





# 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.

## Conveyors and conveyor accessories

|  |                      |
|--|----------------------|
| Standard catalog conveyors                         | 30%                  |
| MPB, 7200, 7300 Series, cleated and specialty belt | 50%                  |
| AquaGard & AquaPruf Series conveyors               | non-returnable items |
| Engineered to order products                       | case by case         |
| Drives and accessories                             | 30%                  |
| Sanitary stand supports                            | non-returnable items |

## Parts

|  |                      |
|--|----------------------|
| Standard stock parts                       | 30%                  |
| Plastic chain, cleated and specialty belts | non-returnable items |

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

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



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