



2200 and 2300 Series Bottom Mount Drive Package for SEW 60 Hz Gearmotors

Installation, Maintenance & Parts Manual



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Introduction

| |
|------------------|
| IMPORTANT |
|------------------|

| |
|---|
| <i>Some illustrations may show guards removed. Do NOT operate equipment without guards.</i> |
|---|


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 2200 Series conveyors are covered by patent number 5174435 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.

WARNING



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

WARNING



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

WARNING



Exposed moving parts can cause severe injury.
REPLACE ALL GUARDS BEFORE RUNNING CONVEYOR.

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 start-up.

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

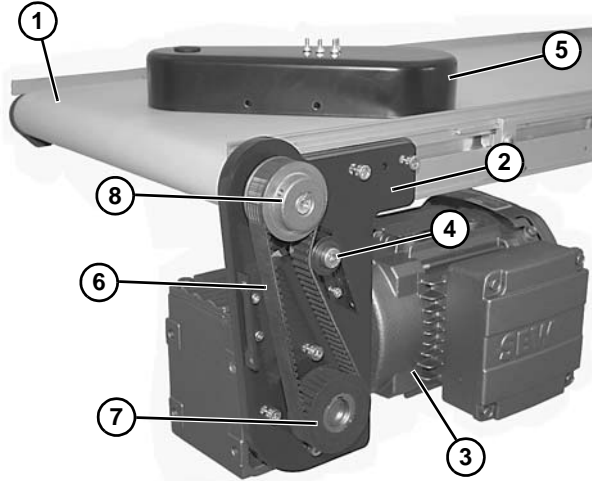


Figure 1

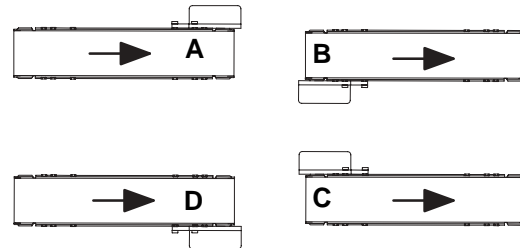
Specifications

Gearmotor Mounting Package Models:

Example:

22 M B W S W W A - 32 32

- Driven Pulley (see Tables 2 & 3)
- Drive Pulley (see Tables 2 & 3)
- Belt Type (- = flat belt, C = cleated belt)
- Mount Position = A, B, C or D (see detail to the right)
- Conveyor Width Reference*
- Gearmotor Type = Standard Load, Industrial
- Output Shaft Type = SEW
- Mount Style = Bottom Mount
- Language Code = U.S. English
- 22 = 2200, 2300 Series Conveyors



* See “Ordering and Specifications” Catalog for details.

Table 1: Gearmotor Specifications

| | Three Phase | | | VFD Vari Speed | | |
|-----------------|----------------------------------|-------------------|-----------------|----------------------------------|-------------------|-----------------|
| | 0.25 Hp (0.19 Kw) | 0.33 hp (0.25 kW) | 0.5 Hp(0.37 kW) | 0.25 Hp (0.19 Kw) | 0.33 hp (0.25 kW) | 0.5 Hp(0.37 kW) |
| Output Power | 0.25 Hp (0.19 Kw) | 0.33 hp (0.25 kW) | 0.5 Hp(0.37 kW) | 0.25 Hp (0.19 Kw) | 0.33 hp (0.25 kW) | 0.5 Hp(0.37 kW) |
| Input Voltage | 230/460 | | | 230/460 | | |
| Input Frequency | 60 Hz | | | 10 to 60 Hz | | |
| Input Current | 0.89/0.44 | 1.24/0.62 | 1.84/0.92 | 0.89/0.44 | 1.24/0.62 | 1.84/0.92 |
| RPM | 46 | 109 | 219 | 8 to 46 | 18 to 109 | 37 to 219 |
| Ratio | 39:1 | 16.5:1 | 8.2:1 | 39:1 | 16.5:1 | 8.2:1 |
| Motor Frame | IEC71 | | | IEC71 | | |
| Motor Type | IP54 Totally Enclosed Fan Cooled | | | IP54 Totally Enclosed Fan Cooled | | |

2200 and 2300 Series Bottom Mount Drive Package for SEW 60 Hz Gearmotors

Specifications

Table 2: Belt Speeds for Fixed Speed SEW Gearmotors

| Part Number | RPM | In-lb | N-m | Ft/min | M/min | Drive Pulley | Driven Pulley |
|---------------|-----|-------|------|--------|-------|--------------|---------------|
| 22M039WS423EN | 46 | 203 | 22.9 | 11.1 | 3.4 | 22 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 14.2 | 4.3 | 28 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 16.2 | 4.9 | 28 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 18.5 | 5.6 | 32 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 22.3 | 6.8 | 44 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 23.6 | 7.2 | 32 | 22 |
| 22M039WS423EN | 46 | 203 | 22.9 | 24.3 | 7.4 | 48 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 25.5 | 7.8 | 44 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 26.3 | 8.0 | 22 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 27.8 | 8.5 | 48 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 30.4 | 9.3 | 60 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 32.4 | 9.9 | 44 | 22 |
| 22M017WS423EN | 109 | 159 | 18.0 | 33.4 | 10.2 | 28 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 34.7 | 10.6 | 60 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 35.4 | 10.8 | 48 | 22 |
| 22M017WS423EN | 109 | 159 | 18.0 | 38.2 | 11.6 | 28 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 43.7 | 13.3 | 32 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 44.2 | 13.5 | 60 | 22 |
| 22M017WS423EN | 109 | 159 | 18.0 | 52.5 | 16.0 | 44 | 32 |
| 22M008WS423EN | 219 | 132 | 14.9 | 52.8 | 16.1 | 22 | 32 |
| 22M017WS423EN | 109 | 159 | 18.0 | 55.6 | 16.9 | 32 | 22 |
| 22M017WS423EN | 109 | 159 | 18.0 | 57.3 | 17.5 | 48 | 32 |
| 22M017WS423EN | 109 | 159 | 18.0 | 60.0 | 18.3 | 44 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 65.5 | 20.0 | 48 | 28 |
| 22M008WS423EN | 219 | 132 | 14.9 | 67.2 | 20.5 | 28 | 32 |
| 22M017WS423EN | 109 | 159 | 18.0 | 71.6 | 21.8 | 60 | 32 |
| 22M017WS423EN | 109 | 159 | 18.0 | 76.4 | 23.3 | 44 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 76.8 | 23.4 | 28 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 81.9 | 25.0 | 60 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 83.4 | 25.4 | 48 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 87.8 | 26.8 | 32 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 104.2 | 31.8 | 60 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 105.6 | 32.2 | 44 | 32 |
| 22M008WS423EN | 219 | 132 | 14.9 | 111.7 | 34.1 | 32 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 115.2 | 35.1 | 48 | 32 |
| 22M008WS423EN | 219 | 132 | 14.9 | 120.7 | 36.8 | 44 | 28 |
| 22M008WS423EN | 219 | 132 | 14.9 | 131.7 | 40.1 | 48 | 28 |
| 22M008WS423EN | 219 | 132 | 14.9 | 144.0 | 43.9 | 60 | 32 |
| 22M008WS423EN | 219 | 132 | 14.9 | 153.6 | 46.8 | 44 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 164.6 | 50.2 | 60 | 28 |
| 22M008WS423EN | 219 | 132 | 14.9 | 167.6 | 51.1 | 48 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 209.5 | 63.8 | 60 | 22 |

Specifications

Table 3: Belt Speeds for Variable Speed SEW Gearmotors

| Part Number | RPM | In-lb | N-m | Ft/min (max) | Ft/min (min) | M/min (max) | M/min (min) | Drive Pulley | Driven Pulley |
|---------------|-----|-------|------|--------------|--------------|-------------|-------------|--------------|---------------|
| 22M039WS423EN | 46 | 203 | 22.9 | 11.1 | 1.9 | 3.4 | 0.6 | 22 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 14.2 | 2.4 | 4.3 | 0.7 | 28 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 16.2 | 2.7 | 4.9 | 0.8 | 28 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 18.5 | 3.1 | 5.6 | 0.9 | 32 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 22.3 | 3.7 | 6.8 | 1.1 | 44 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 23.6 | 3.9 | 7.2 | 1.2 | 32 | 22 |
| 22M039WS423EN | 46 | 203 | 22.9 | 24.3 | 4.1 | 7.4 | 1.2 | 48 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 25.5 | 4.3 | 7.8 | 1.3 | 44 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 26.3 | 4.4 | 8.0 | 1.3 | 22 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 27.8 | 4.6 | 8.5 | 1.4 | 48 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 30.4 | 5.1 | 9.3 | 1.5 | 60 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 32.4 | 5.4 | 9.9 | 1.6 | 44 | 22 |
| 22M017WS423EN | 109 | 159 | 18.0 | 33.4 | 5.6 | 10.2 | 1.7 | 28 | 32 |
| 22M039WS423EN | 46 | 203 | 22.9 | 34.7 | 5.8 | 10.6 | 1.8 | 60 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 35.4 | 5.9 | 10.8 | 1.8 | 48 | 22 |
| 22M017WS423EN | 109 | 159 | 18.0 | 38.2 | 6.4 | 11.6 | 1.9 | 28 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 43.7 | 7.3 | 13.3 | 2.2 | 32 | 28 |
| 22M039WS423EN | 46 | 203 | 22.9 | 44.2 | 7.4 | 13.5 | 2.2 | 60 | 22 |
| 22M017WS423EN | 109 | 159 | 18.0 | 52.5 | 8.8 | 16.0 | 2.7 | 44 | 32 |
| 22M008WS423EN | 219 | 132 | 14.9 | 52.8 | 8.8 | 16.1 | 2.7 | 22 | 32 |
| 22M017WS423EN | 109 | 159 | 18.0 | 55.6 | 9.3 | 16.9 | 2.8 | 32 | 22 |
| 22M017WS423EN | 109 | 159 | 18.0 | 57.3 | 9.6 | 17.5 | 2.9 | 48 | 32 |
| 22M017WS423EN | 109 | 159 | 18.0 | 60.0 | 10.0 | 18.3 | 3.1 | 44 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 65.5 | 10.9 | 20.0 | 3.3 | 48 | 28 |
| 22M008WS423EN | 219 | 132 | 14.9 | 67.2 | 11.2 | 20.5 | 3.4 | 28 | 32 |
| 22M017WS423EN | 109 | 159 | 18.0 | 71.6 | 12.0 | 21.8 | 3.6 | 60 | 32 |
| 22M017WS423EN | 109 | 159 | 18.0 | 76.4 | 12.8 | 23.3 | 3.9 | 44 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 76.8 | 12.8 | 23.4 | 3.9 | 28 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 81.9 | 13.7 | 25.0 | 4.2 | 60 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 83.4 | 13.9 | 25.4 | 4.2 | 48 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 87.8 | 14.7 | 26.8 | 4.5 | 32 | 28 |
| 22M017WS423EN | 109 | 159 | 18.0 | 104.2 | 17.4 | 31.8 | 5.3 | 60 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 105.6 | 17.6 | 32.2 | 5.4 | 44 | 32 |
| 22M008WS423EN | 219 | 132 | 14.9 | 111.7 | 18.7 | 34.1 | 5.7 | 32 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 115.2 | 19.2 | 35.1 | 5.9 | 48 | 32 |
| 22M008WS423EN | 219 | 132 | 14.9 | 120.7 | 20.2 | 36.8 | 6.1 | 44 | 28 |
| 22M008WS423EN | 219 | 132 | 14.9 | 131.7 | 22.0 | 40.1 | 6.7 | 48 | 28 |
| 22M008WS423EN | 219 | 132 | 14.9 | 144.0 | 24.0 | 43.9 | 7.3 | 60 | 32 |
| 22M008WS423EN | 219 | 132 | 14.9 | 153.6 | 25.7 | 46.8 | 7.8 | 44 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 164.6 | 27.5 | 50.2 | 8.4 | 60 | 28 |
| 22M008WS423EN | 219 | 132 | 14.9 | 167.6 | 28.0 | 51.1 | 8.5 | 48 | 22 |
| 22M008WS423EN | 219 | 132 | 14.9 | 209.5 | 35.0 | 63.8 | 10.7 | 60 | 22 |

NOTE

For belt speed other than those listed, contact factory for details.

Required Tools

- Hex key wrenches:
3/32", 3 mm, 5 mm, 6 mm
- Socket wrenches:
8 mm, 11 mm
- Torque wrench
- Straight edge

Mounting

⚠ WARNING



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

⚠ WARNING



For Cleated Belt Conveyors, Gearmotors must be mounted as shown in Figure 3.
Failure to do so creates pinch points which can cause severe injury.

NOTE

Gearmotor position on Flat Belt conveyors shown in Figure 2. Gearmotor position on Cleated Belt conveyors shown in Figure 3.

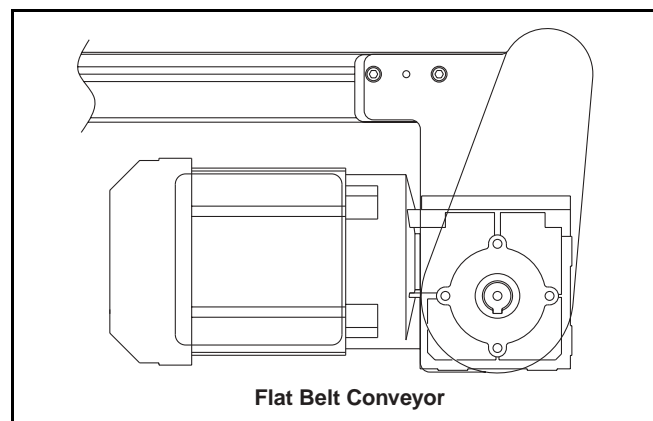


Figure 2

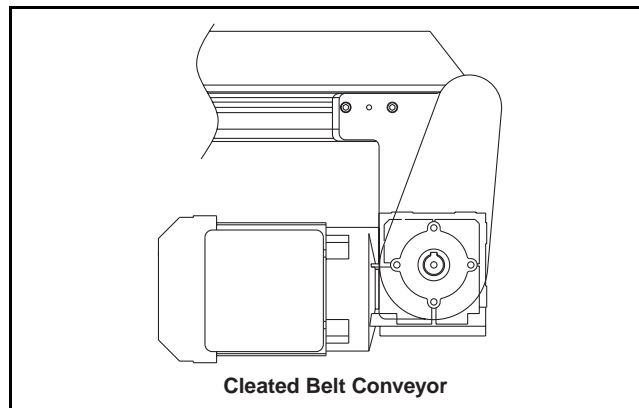


Figure 3

Installation Component List:

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

1. Typical components (Figure 4).

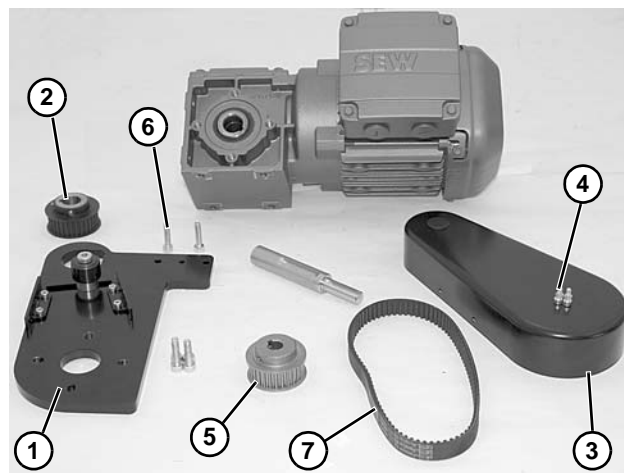


Figure 4

NOTE

Flat belt mounting package shown above (Figure 4), cleated belt mounting package similar.

Installation

NOTE

Gearmotor may be operated in positions 1, 3 or 4 (Figure 5). Dependent on conveyor belt speed and gearmotor type, position 4 may require a vibration dampening bracket.

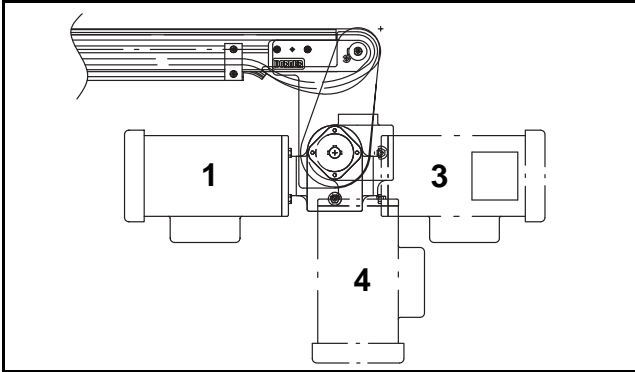


Figure 5

- If required, change gearmotor position by removing four (4) screws (Figure 6, item 1). Rotate gearmotor to other position and replace screws (Figure 6, item 1). Tighten to 103 in-lb (12 N-m).

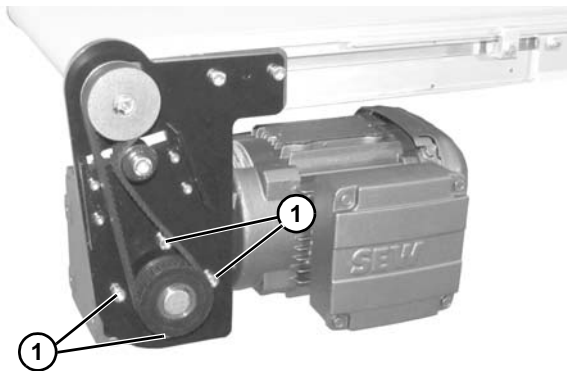


Figure 6

- Locate drive output shaft (Figure 7, item 1) and remove two (2) screws (Figure 7, item 2).

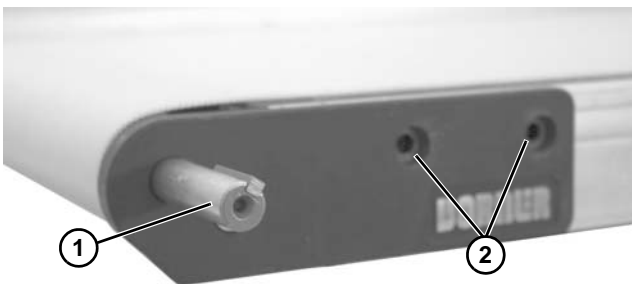


Figure 7

- Attach mounting assembly (Figure 8, item 1) with screws (Figure 8, item 2). Tighten to 80 in-lb (9 N-m).

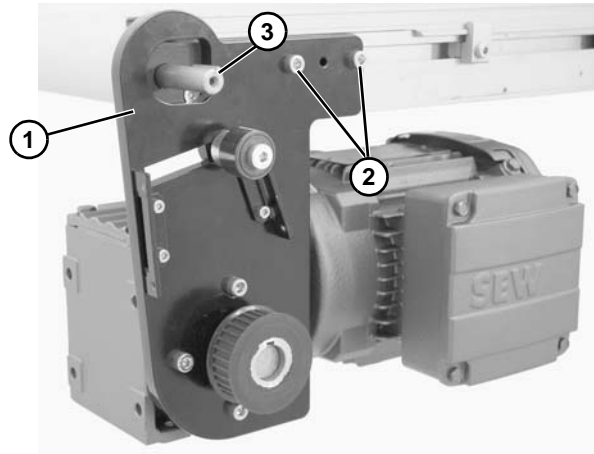


Figure 8

⚠ WARNING



Drive shaft keyway may be sharp.
HANDLE WITH CARE.

- Install key (Figure 8, item 3).
- Wrap timing belt (Figure 9, item 1) around driven pulley (Figure 9, item 2) and drive pulley (Figure 9, item 3). Install driven pulley (Figure 9, item 2) onto conveyor shaft.

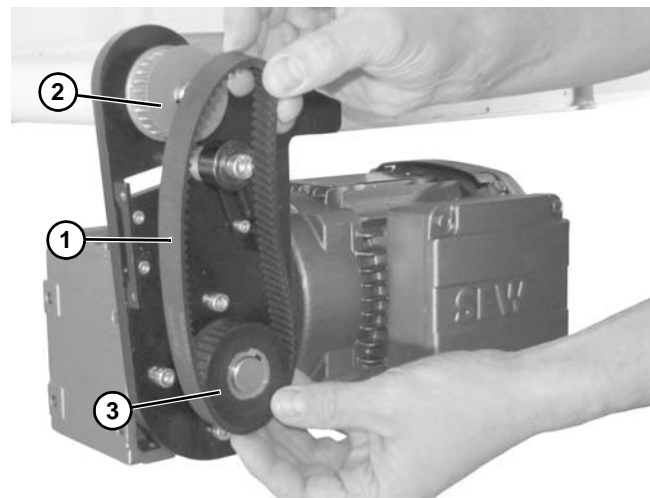


Figure 9

Installation

7. Remove cam bearing and spacer (**Figure 10, item 1**).

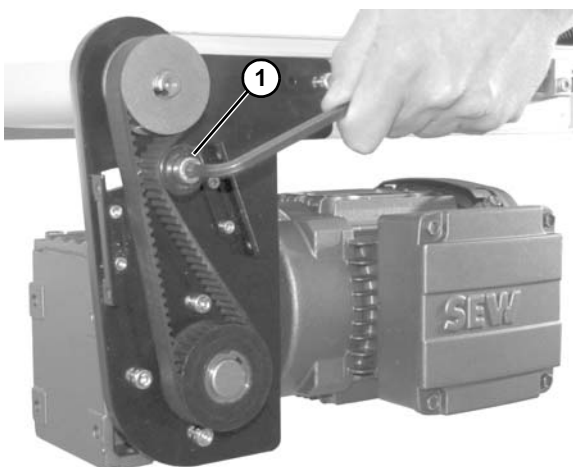


Figure 10

8. Place the cam bearing and spacer (**Figure 11, item 1**) next to the driven pulley (**Figure 11, item 2**). Ensure the flanges of the driven pulley are aligned with the cam bearing. Tighten driven pulley set screws (**Figure 11, item 3**). This will allow for proper belt alignment while conveyor is in use. Replace cam bearing and spacer.

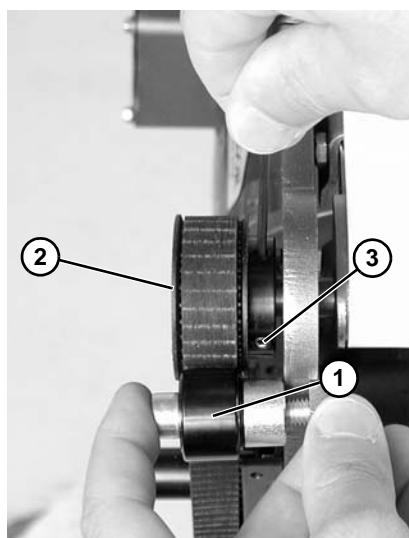


Figure 11

9. Depending on conveyor belt travel (direction 1 or 2), locate timing belt tensioner (**Figure 12, item 1**) as shown. Tension timing belt to obtain 0.125" (3 mm) deflection for 1.0 lb (456 grams) of force at timing belt mid-point (**Figure 12, item 2**). Tighten tensioner screw to 103 in-lb (12 N-m).

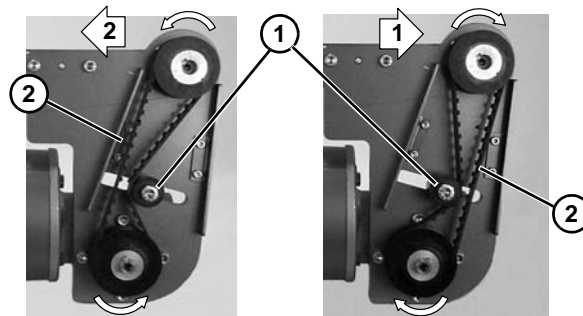


Figure 12

10. Install cover (**Figure 13, item 1**) with four (4) screws (**Figure 13, item 2**). Tighten to 35 in-lb (4 N-m).

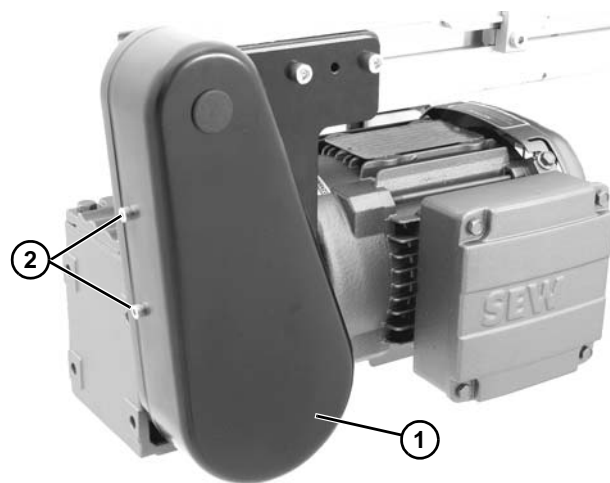



Figure 13

Installation

Motor Wiring

| |
|---|
| ⚠ DANGER |
|  |
| Hazardous voltage will cause severe injury or death. LOCK OUT POWER BEFORE WIRING. |

| |
|--|
| NOTE |
| <i>Lug terminals are recommended for wiring connections.</i> |

1. Remove cover (Figure 14, item 1).

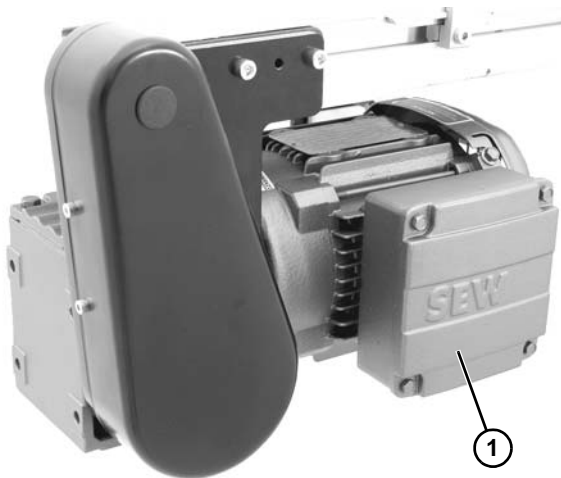


Figure 14

2. To determine wiring configuration, refer to the inside of the motor cover (Figure 15).

| |
|--|
| NOTE |
| <i>Image of wiring diagram for reference only. See inside motor cover for motor specific instructions.</i> |



Figure 15

3. Install cord grip and power cord (Figure 16, item 1) mount to terminal box as required.

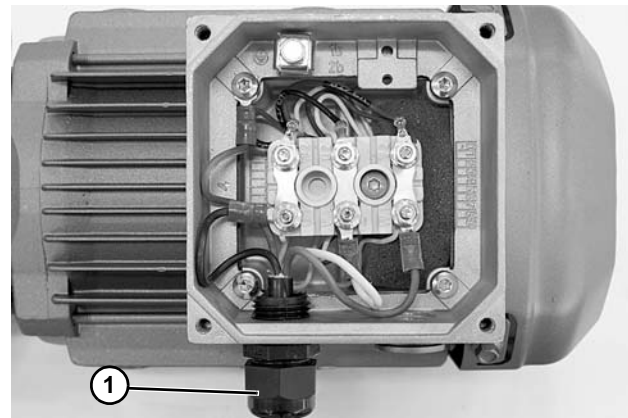


Figure 16


4. Connect wires.
5. Close cover.

Preventive Maintenance and Adjustment

Required Tools

- Hex key wrenches:
3/32", 3 mm, 5 mm, 6 mm
- Socket wrenches:
8 mm, 11 mm
- Torque wrench
- Straight edge

Timing Belt Tensioning

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

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

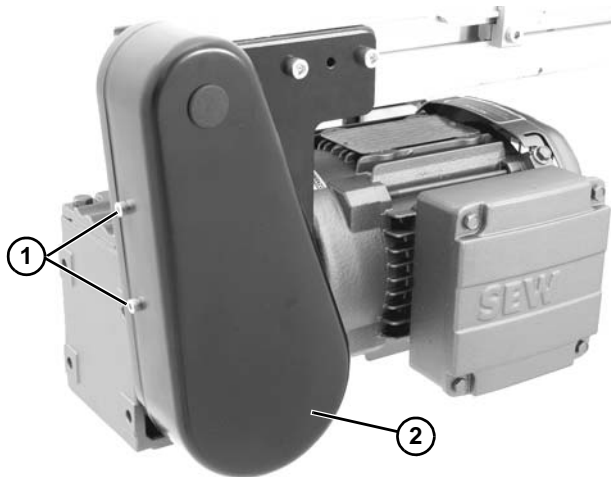


Figure 17

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

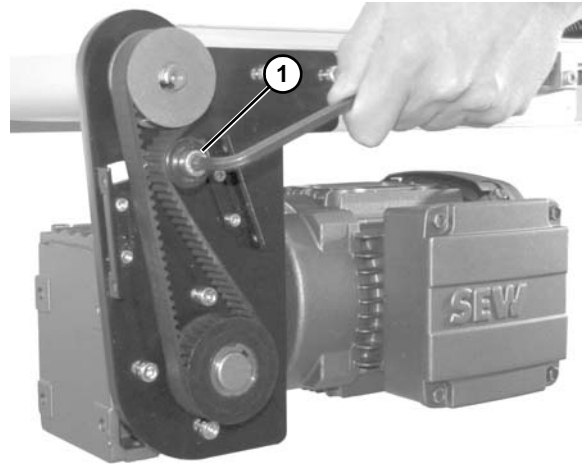


Figure 18

3. Depending on conveyor belt travel (direction 1 or 2), locate timing belt tensioner (**Figure 19, item 1**) as shown. Tension timing belt to obtain 0.125" (3 mm) deflection for 1.0 lb (456 grams) of force at timing belt mid-point (**Figure 19, item 2**). Tighten tensioner screw to 103 in-lb (12 N-m).

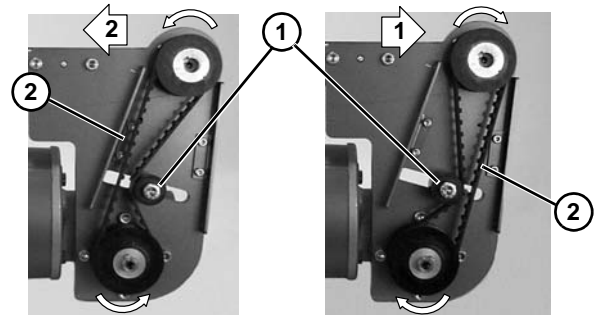


Figure 19

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

Preventive Maintenance and Adjustment

Timing Belt Replacement

⚠ WARNING



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

1. Remove four (4) screws (Figure 20, item 1) and remove cover (Figure 20, item 2).

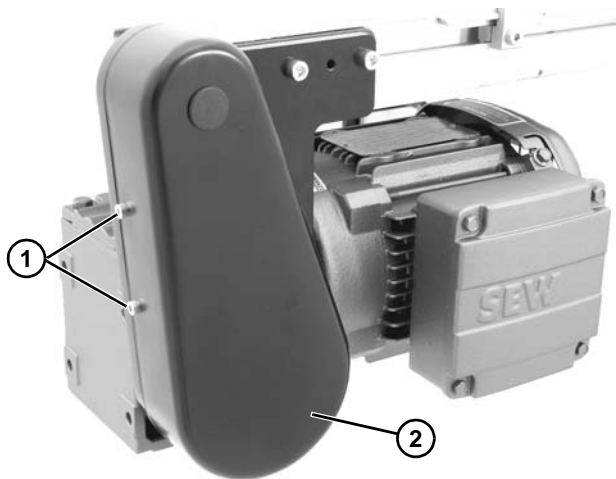


Figure 20

2. Loosen tensioner (Figure 21, item 1).

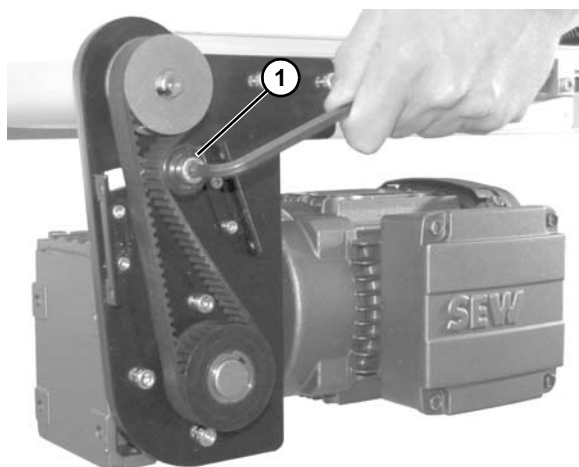


Figure 21

3. Remove timing belt (Figure 22, item 1).

NOTE

If timing belt does not slide over pulley flange, loosen driven pulley set screws (Figure 22, item 2) and remove pulley with belt. For re-installation, see steps 6,7 and 8 on page 8.

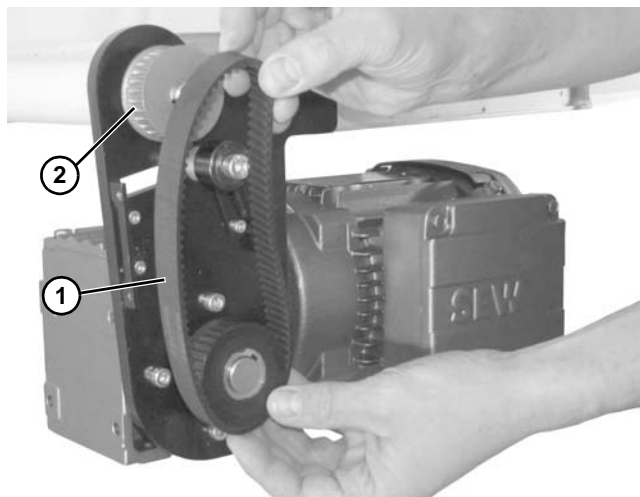


Figure 22

4. Install new timing belt.
5. Depending on conveyor belt travel (direction 1 or 2), locate timing belt tensioner (Figure 23, item 1) as shown. Tension timing belt to obtain 0.125" (3 mm) deflection for 1.0 lb (456 grams) of force at timing belt mid-point (Figure 23, item 2). Tighten tensioner screw to 103 in-lb (12 N-m).

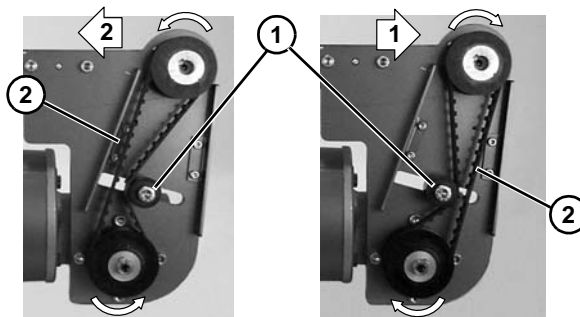


Figure 23

6. Install cover (Figure 20, item 2) with four (4) screws (Figure 20, item 1). Tighten to 35 in-lb (4 N-m).

Preventive Maintenance and Adjustment

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 12.
2. Loosen set screws and remove drive or driven pulley.

NOTE

If drive pulley (Figure 22, item 3) is replaced, wrap timing belt around drive pulley and complete step 3.

3. Complete steps 6 through 10 of “Installation” section on page 8.

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.

1. Disconnect power. Remove terminal box cover and wires.
2. Remove four (4) screws (Figure 24, item 1) and remove cover (Figure 24, item 2).

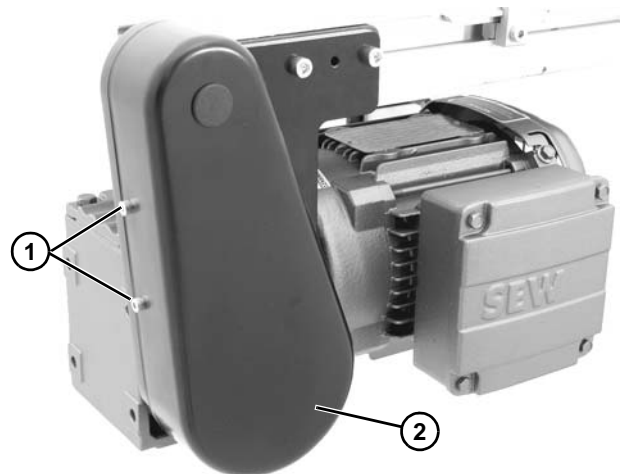


Figure 24

Preventive Maintenance and Adjustment

3. Loosen tensioner (**Figure 25, item 1**) and remove timing belt (**Figure 25, item 2**).

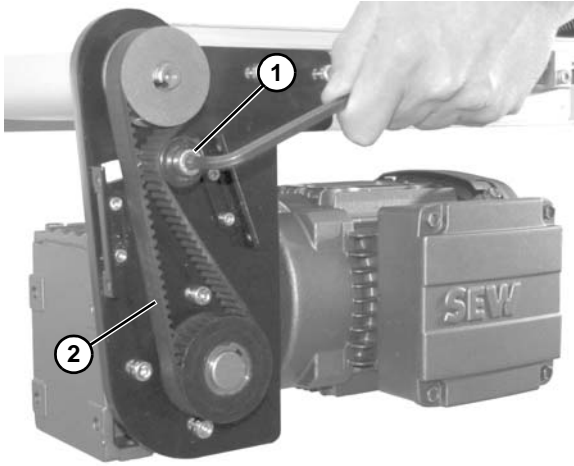


Figure 25

4. Loosen set screws and remove drive pulley (**Figure 26, item 1**).

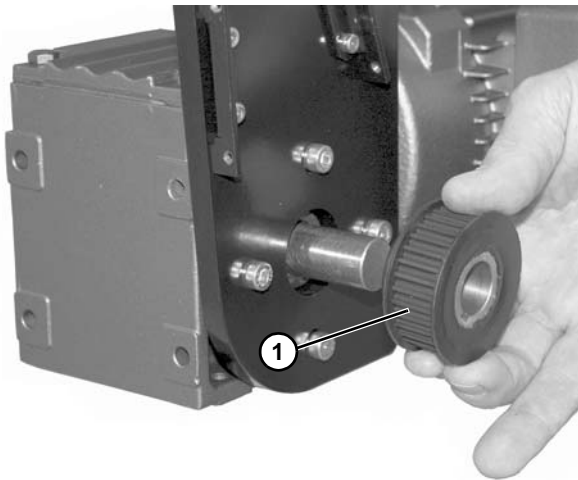


Figure 26

5. Remove four (4) mounting screws (**Figure 27, item 1**) and remove gearmotor.

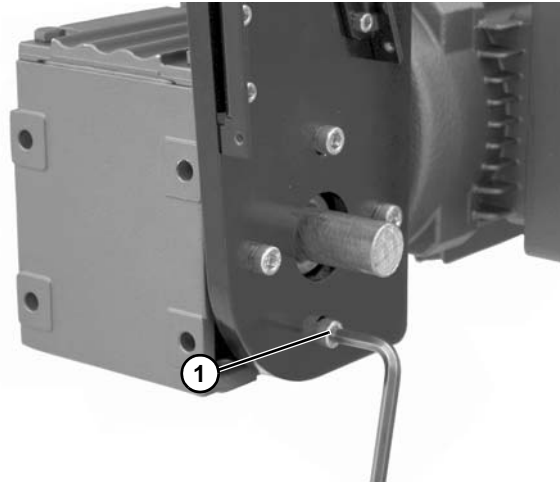


Figure 27

6. Remove shaft mounting bolt (**Figure 28, item 1**) and remove shaft.

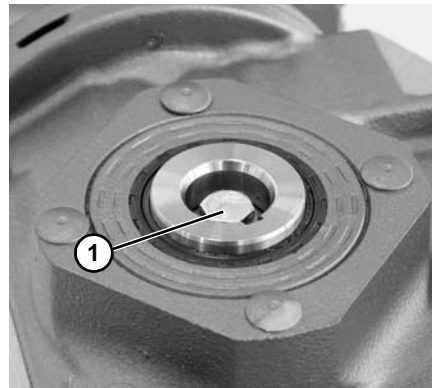



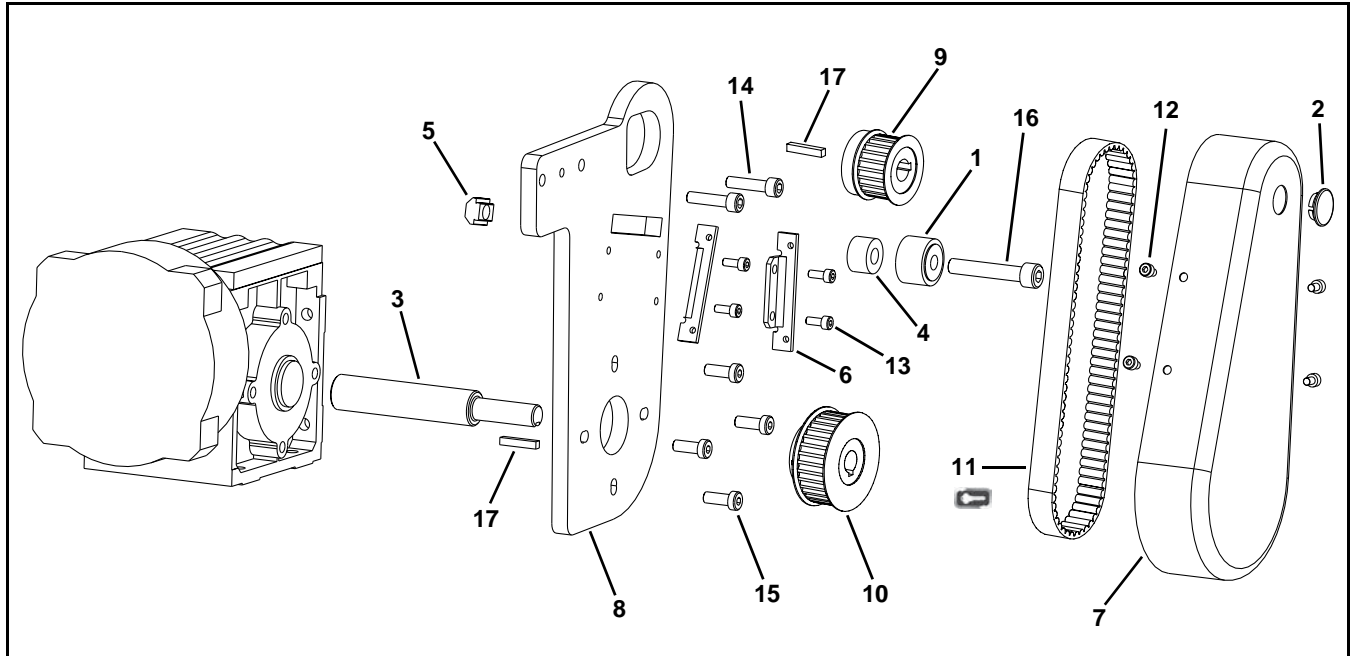
Figure 28

7. Repeat in reverse order to install new gearmotor.

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.

Bottom Mount Drive Package for SEW Gearmotors

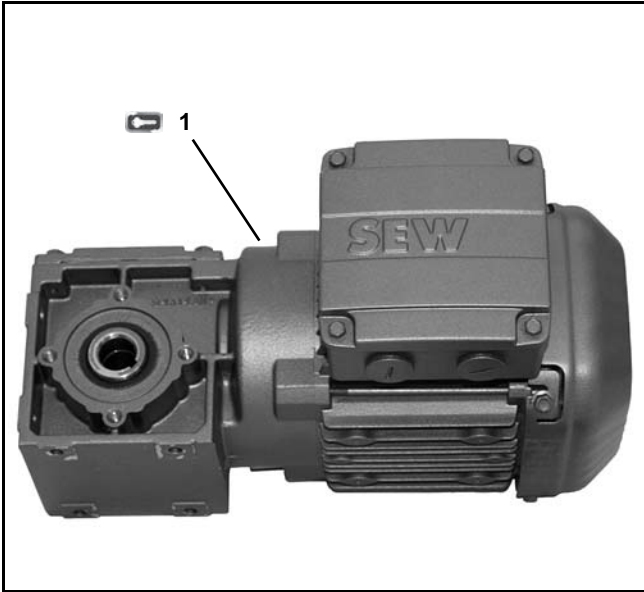



| Item | Part Number | Description |
|------|-------------|----------------------------|
| 1 | 802-046 | Bearing |
| 2 | 807-226 | Snap-out Plastic Plug |
| 3 | 201559 | Output Shaft |
| 4 | 450445 | Spacer |
| 5 | 202390M | Nut Follower |
| 6 | 450375M | Cam Mounting Cover Bracket |
| 7 | 450376M | Drive Guard |
| 8 | 450443M | Mounting Plate |
| 9 | 450365MP | Driven Pulley, 19 Tooth |
| | 450366MP | Driven Pulley, 22 Tooth |
| | 450367MP | Driven Pulley, 28 Tooth |
| | 450368MP | Driven Pulley, 32 Tooth |
| 10 | 450365MP | Drive Pulley, 19 Tooth |
| | 450366MP | Drive Pulley, 22 Tooth |
| | 450367MP | Drive Pulley, 28 Tooth |
| | 450368MP | Drive Pulley, 32 Tooth |
| | 450369MP | Drive Pulley, 44 Tooth |
| | 450370MP | Drive Pulley, 48 Tooth |
| | 450371MP | Drive Pulley, 60 Tooth |

| Item | Part Number | Description |
|------|-------------|---|
| 11 | 814-104 | Timing Belt, 15 mm W x 450 mm L |
| | 814-105 | Timing Belt, 15 mm W x 460 mm L |
| | 814-065 | Timing Belt, 15 mm W x 475 mm L |
| | 814-112 | Timing Belt, 15 mm W x 495 mm L |
| | 814-101 | Timing Belt, 15 mm W x 500 mm L |
| | 814-108 | Timing Belt, 15 mm W x 520 mm L |
| | 814-064 | Timing Belt, 15 mm W x 535 mm L |
| | 814-099 | Timing Belt, 15 mm W x 565 mm L |
| 12 | 920406M | Socket Head Screw M4 x 6mm |
| 13 | 920410M | Socket Head Screw M4 x 10mm |
| 14 | 920625M | Socket Head Screw M6 - 1.00 x 25 mm |
| 15 | 920693M | Low Head Cap Screw M6 - 1.00 x 16 mm |
| 16 | 920845M | Socket Head Screw M8 - 1.25 x 45 mm |
| 17 | 980422M | Square Key |

Service Parts

Gearmotor



| Item | Part No. | Part Description |
|---|---------------|--|
| 1 | 22M039WS423EN | Gearmotor, 0.25 Hp (0.19 Kw), 230/460 Volts, 39:1 |
|  | 22M017WS423EN | Gearmotor, 0.33 Hp (0.25 Kw), 230/460 Volts, 16.5:1 |
| | 22M008WS423EN | Gearmotor, 0.50 Hp (0.37 Kw), 230/460 Volts, 8.2:1 |

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 Type | | | | | | | | | |
|---------------------|--|--------------------------------|----------------|-------------|------------------------|------------------------------------|--|-----------------------------|---------------------------|
| 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 | 30% return fee for all products except: 50% return fee for conveyors with modular belt, cleated belt or specialty belts | | | | | | non-returnable | | case-by-case |
| 2200 | | | | | | | | | |
| 2200 Modular Belt | | | | | | | | | |
| 2200 Precision Move | | | | | | | | | |
| 2300 | | | | | | | | | |
| 2300 Modular Belt | | | | | | | | | |
| 3200 | | | | | | | | | |
| 3200 LPZ | | | | | | | | | |
| 3200 Precision Move | | | | | | | | | |
| 4100 | | | | | | | | | |
| 5200 | | | | | | | | | |
| 5300 | | | | | | | | | |
| 6200 | | | | | | | | | |
| Controls | | | | | | | | | |
| 7200 / 7300 | 50% return fee for all products | | | | | | | | |
| 7350 | non-returnable | | | | | | | | |
| 7360 | | | | | | | | | |
| 7400 | | | | | | | | | |
| 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.

| | | |
|---|--|---|
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|---|--|---|