

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

Setup, Operation & Maintenance 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 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.



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



DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.





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

A WARNING



Gearmotors may be HOT. DO NOT TOUCH Gearmotors.

A WARNING



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

A 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.

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

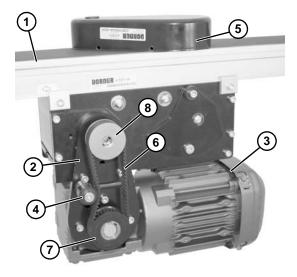
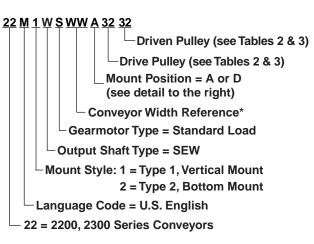


Figure 1

Specifications

Gearmotor Mounting Package Models:

Example:







* See "Ordering and Specifications" Catalog for details.

Table 1: Gearmotor Specifications

		Three Phase		VFD Vari Speed			
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 2		219	8 to 46	3 to 46 18 to 109		
Ratio	39:1	16.5:1	8.2:1	39:1	16.5:1	8.2:1	
Motor Frame		IEC71	•	IEC71			
Motor Type	IP54 To	otally Enclosed Fan C	ooled	IP54 Totally Enclosed Fan Cooled			

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	9.6	2.9	19	32
22M039WS423EN	46	203	22.9	11.0	3.4	19	28
22M039WS423EN	46	203	22.9	11.1	3.4	22	32
22M039WS423EN	46	203	22.9	12.7	3.9	22	28
22M039WS423EN	46	203	22.9	14.2	4.3	28	32
22M039WS423EN	46	203	22.9	16.2	4.9	32	32
22M039WS423EN	46	203	22.9	18.5	5.6	32	28
22M039WS423EN	46	203	22.9	20.6	6.3	28	22
22M039WS423EN	46	203	22.9	22.3	6.8	44	32
22M017WS423EN	109	159	18.0	22.7	6.9	19	32
22M039WS423EN	46	203	22.9	23.6	7.2	32	22
22M039WS423EN	46	203	22.9	23.9	7.3	28	19
22M039WS423EN	46	203	22.9	24.3	7.4	48	32
22M039WS423EN	46	203	22.9	25.5	7.8	40	28
22M017WS423EN	109	159	18.0	25.9	7.9	19	28
22M017WS423EN	109	159	18.0	26.3	8.0	22	32
22M039WS423EN	46	203	22.9	20.3	8.3	32	19
22M039WS423EN	40	203	22.9	27.8	8.5	48	28
22M039WS423EN 22M017WS423EN	-	203	-	-		-	_
	109		18.0 22.9	30.0	9.2	22	28 22
22M039WS423EN	46	203	-	32.4	9.9	44	
22M017WS423EN	109	159	18.0	33.4	10.2	28	32
22M039WS423EN	46	203	22.9	35.4	10.8	48	22
22M039WS423EN	46	203	22.9	37.5	11.4	44	19
22M017WS423EN	109	159	18.0	38.2	11.6	32	32
22M039WS423EN	46	203	22.9	40.9	12.5	48	19
22M017WS423EN	109	159	18.0	43.7	13.3	32	28
22M008WS423EN	219	132	14.9	45.6	13.9	19	32
22M017WS423EN	109	159	18.0	48.6	14.8	28	22
22M008WS423EN	219	132	14.9	52.1	15.9	19	28
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	56.3	17.2	28	19
22M017WS423EN	109	159	18.0	57.3	17.5	48	32
22M017WS423EN	109	159	18.0	60.0	18.3	44	28
22M008WS423EN	219	132	14.9	60.3	18.4	22	28
22M017WS423EN	109	159	18.0	64.4	19.6	32	19
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	76.4	23.3	44	22
22M008WS423EN	219	132	14.9	76.8	23.4	32	32
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	88.5	27.0	44	19
22M017WS423EN	109	159	18.0	96.5	29.4	48	19
22M008WS423EN	219	132	14.9	97.7	29.8	28	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	113.2	34.5	28	19
22M008WS423EN	219	132	14.9	115.2	34.5	48	32
22M008WS423EN	219	132	14.9	120.7	36.8	40	28
							-
22M008WS423EN	219	132	14.9	129.4	39.4	32	19
22M008WS423EN	219	132	14.9	131.7	40.1	48	28
22M008WS423EN	219	132	14.9	153.6	46.8	44	22
22M008WS423EN	219	132	14.9	167.6	51.1	48	22
22M008WS423EN	219	132	14.9	177.9	54.2	44	19
22M008WS423EN	219	132	14.9	194.0	59.1	48	19

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	9.6	1.6	2.9	0.5	19	32
22M039WS423EN	46	203	22.9	11.0	1.8	3.4	0.6	19	28
22M039WS423EN	46	203	22.9	11.1	1.9	3.4	0.6	22	32
22M039WS423EN	46	203	22.9	12.7	2.1	3.9	0.6	22	28
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	32	32
22M039WS423EN	46	203	22.9	18.5	3.1	5.6	0.9	32	28
22M039WS423EN	46	203	22.9	20.6	3.4	6.3	1.0	28	22
22M039WS423EN	46	203	22.9	22.3	3.7	6.8	1.1	44	32
22M017WS423EN	109	159	18.0	22.7	3.8	6.9	1.2	19	32
22M039WS423EN	46	203	22.9	23.6	3.9	7.2	1.2	32	22
22M039WS423EN	46	203	22.9	23.9	4.0	7.3	1.2	28	19
22M039WS423EN	46	203	22.9	24.3	4.1	7.4	1.2	48	32
22M039WS423EN	46	203	22.9	25.5	4.2	7.8	1.3	44	28
22M017WS423EN	109	159	18.0	25.9	4.3	7.9	1.3	19	28
22M017WS423EN	109	159	18.0	26.3	4.4	8.0	1.3	22	32
22M039WS423EN	46	203	22.9	27.3	4.5	8.3	1.4	32	19
22M039WS423EN	46	203	22.9	27.8	4.6	8.5	1.4	48	28
22M017WS423EN	109	159	18.0	30.0	5.0	9.2	1.5	22	28
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	35.4	5.9	10.8	1.8	48	22
22M039WS423EN	46	203	22.9	37.5	6.3	11.4	1.9	44	19
22M017WS423EN	109	159	18.0	38.2	6.4	11.6	1.9	32	32
22M039WS423EN	46	203	22.9	40.9	6.8	12.5	2.1	48	19
22M017WS423EN	109	159	18.0	43.7	7.3	13.3	2.2	32	28
22M008WS423EN	219	132	14.9	45.6	7.6	13.9	2.3	19	32
22M017WS423EN	109	159	18.0	48.6	8.1	14.8	2.5	28	22
22M008WS423EN	219	132	14.9	52.1	8.7	15.9	2.6	19	28
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	56.3	9.4	17.2	2.9	28	19
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
22M008WS423EN	219	132	14.9	60.3	10.1	18.4	3.1	22	28
22M017WS423EN	109	159	18.0	64.4	10.7	19.6	3.3	32	19
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	76.4	12.7	23.3	3.9	44	22
22M008WS423EN	219	132	14.9	76.8	12.8	23.4	3.9	32	32
22M017WS423EN	109	159	18.0	83.4	13.9	25.4	4.2	48	22
22M008WS423EN	219	132	14.9	87.8	14.6	26.8	4.5	32	28
22M017WS423EN	109	159	18.0	88.5	14.7	27.0	4.5	44	19
22M017WS423EN	109	159	18.0	96.5	16.1	29.4	4.9	48	19
22M008WS423EN	219	132	14.9	97.7	16.3	29.8	5.0	28	22
22M008WS423EN	219	132	14.9	105.6	17.6	32.2	5.4	44	32
22M008WS423EN	219	132	14.9	111.7	18.6	34.1	5.7	32	22
22M008WS423EN	219	132	14.9	113.2	18.9	34.5	5.7	28	19
22M008WS423EN	219	132	14.9	115.2	19.2	35.1	5.9	48	32
22M008WS423EN	219	132	14.9	120.7	20.1	36.8	6.1	44	28
22M008WS423EN	219	132	14.9	129.4	21.6	39.4	6.6	32	19
22M008WS423EN	219	132	14.9	131.7	21.9	40.1	6.7	48	28
22M008WS423EN	219	132	14.9	153.6	25.6	46.8	7.8	44	22
22M008WS423EN	219	132	14.9	167.6	27.9	51.1	8.5	48	22
22M008WS423EN	219	132	14.9	177.9	29.6	54.2	9.0	44	19
22M008WS423EN	219	132	14.9	194.0	32.3	59.1	9.9	48	19

NOTE

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

Installation

Required Tools

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

Mounting



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

NOTE

Type 1 mounting package shown below left (*Figure 2*). Type 2 mounting package shown below right (*Figure 2*).

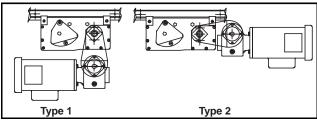
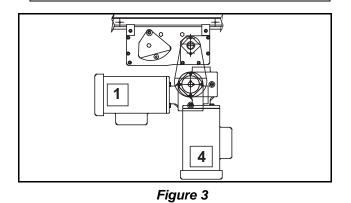


Figure 2

NOTE

For Type 1 mounting package, the gearmotor may be operated in positions 1 or 4 (*Figure* 3).



Installation Component List:

- 1 Mount Assembly
- 2 Drive Pulley
- 3 Cover
- 4 M4 Socket Head Screws (4x)
- 5 Driven Pulley
- 6 Key
- 7 M6 Socket Head Screws (3x)
- 8 Timing Belt
- 1. Typical components (Figure 4).

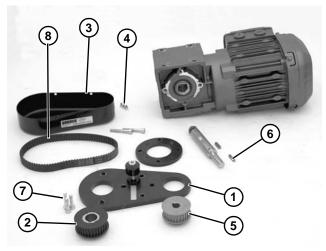


Figure 4

NOTE

Type 1 mounting package shown (*Figure 4*), Type 2 mounting package similar.

2. If required, change gearmotor position by removing screws (Figure 5, item 1). Rotate gearmotor to other position and replace screws. Tighten to 103 in-lb (12 Nm).

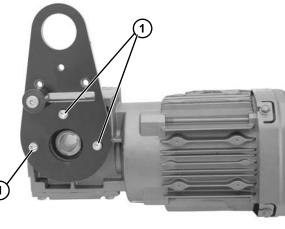


Figure 5

Installation

3. Locate drive output shaft (Figure 6, item 1) and remove two (2) screws (Figure 6, item 2).

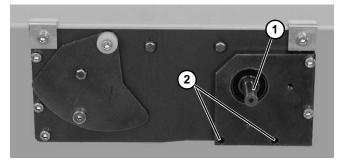
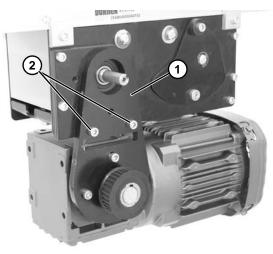


Figure 6

4. Attach mount assembly (Figure 7, item 1) with mounting screws (Figure 7, item 2). Tighten screws to 80 in-lb (9 Nm.).







5. Install key (Figure 8, item 1).

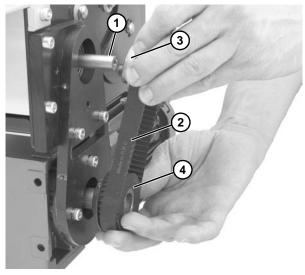
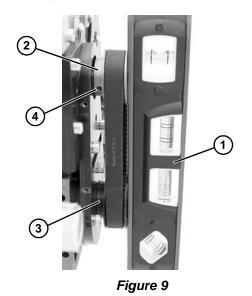


Figure 8

- Wrap timing belt (Figure 8, item 2) around driven pulley (Figure 8, item 3) and drive pulley (Figure 8, item 4). Install driven pulley (Figure 8, item 3) onto conveyor shaft.
- 7. Using a straight edge (Figure 9, item 1), align driven pulley (Figure 9, item 2) with drive pulley (Figure 9, item 3). Tighten driven pulley set screws (Figure 9, item 4).



Depending on direction of conveyor belt travel (1 or 2 of Figure 10), position belt tensioner (Figure 10, item 1) as shown. Tension belt to obtain .125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (Figure 10, item 2). Tighten tensioner screw to 103 in-lb (12 Nm).

Installation

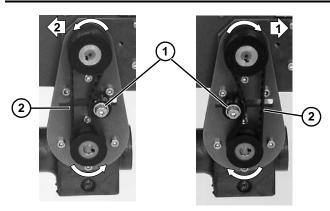
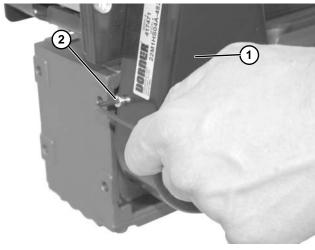


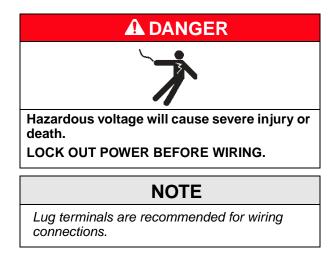
Figure 10

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





Motor Wiring



1. Remove cover (Figure 12, item 1).

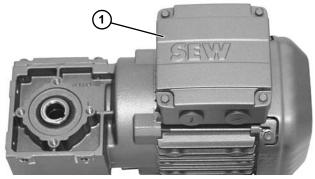


Figure 12

2. To determine wiring configuration, refer to the inside of the motor cover (Figure 13).

NOTE

Image of wiring diagram for reference only. See inside motor cover for motor specific instructions.



Figure 13

3. Install cord grip and power cord (Figure 14, item 1) mount to terminal box as required.

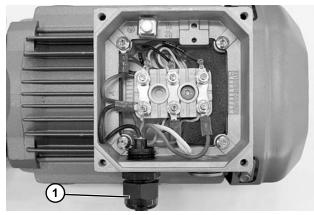


Figure 14

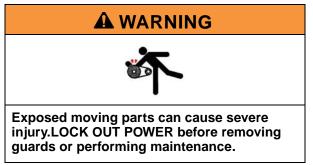
Connect wires.

Connect wire
Close cover.

Required Tools

- Hex key wrenches: 3/32", 3 mm, 5 mm, 6 mm
- Socket wrenches: 8 mm, 11 mm
- Torque wrench
- Small bubble level

Timing Belt Tensioning



1. Remove four (4) screws (Figure 15, item 1) and remove cover (Figure 15, item 2).

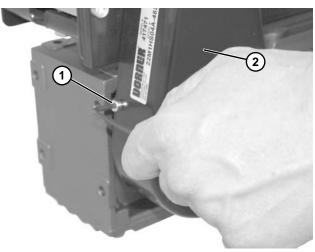


Figure 15

2. Loosen tensioner (Figure 16, item 1).

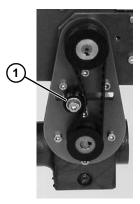
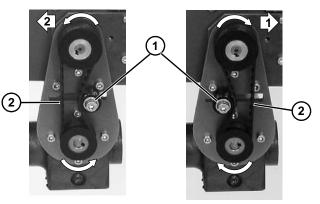


Figure 16

Depending on direction of conveyor belt travel (1 or 2 of (Figure 17), position belt tensioner (Figure 17, item 1) as shown. Tension belt to obtain .125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (Figure 17, item 2). Tighten tensioner screw to 103 in-lb (12 Nm).





4. Install cover (Figure 15, item 2) with four (4) screws (Figure 15, item 1). Tighten to 35 in-lb (4 N-m).

Timing Belt Replacement



1. Remove four (4) screws (Figure 18, item 1) and remove cover (Figure 18, item 2).

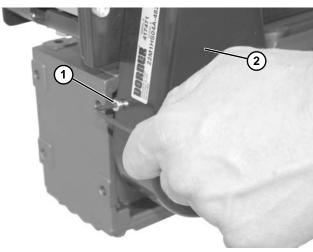


Figure 18

2. Loosen tensioner (Figure 19, item 1).

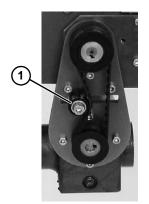


Figure 19

3. Remove timing belt (Figure 20, item 1).

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 and 7 on page 8.

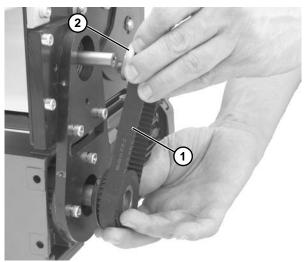


Figure 20

- 4. Install new timing belt.
- Depending on direction of conveyor belt travel (1 or 2 of (Figure 21), position belt tensioner (Figure 21, item 1) as shown. Tension belt to obtain .125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (Figure 21, item 2). Tighten tensioner screw to 103 in-lb (12 Nm).

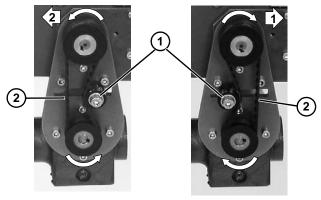


Figure 21

6. Install cover (Figure 18, item 2) with four (4) screws (Figure 18, item 1). Tighten to 35 in-lb (4 N-m).

Drive or Driven Pulley Replacement

WARNING W

- 1. Complete steps 1 through 3 of "Timing Belt Replacement" section on page 11.
- 2. Loosen set screws and remove drive or driven pulley.

NOTE

If drive pulley (*Figure 22, item 1*) is replaced, wrap timing belt around drive pulley and complete step 3.

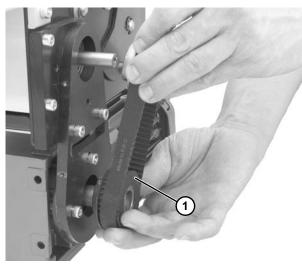
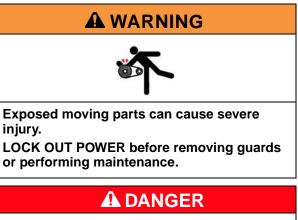


Figure 22

3. Complete steps 6 through 9 of "Installation" section beginning on page 8.

Gearmotor Replacement





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 23, item 1) and remove cover (Figure 23, item 2).

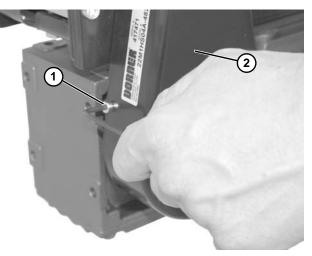


Figure 23

3. Loosen tensioner (Figure 24, item 1) and remove timing belt (Figure 24, item 2).

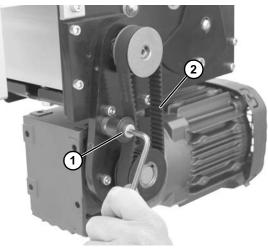


Figure 24

4. Loosen set screws and remove drive pulley (Figure 25, item 1).

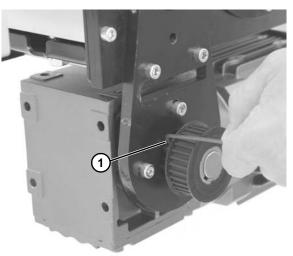
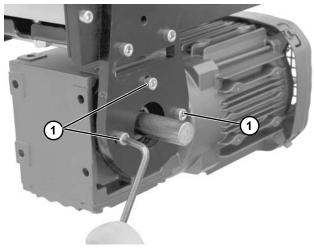


Figure 25

5. Remove mounting screws (Figure 26, item 1) and remove gearmotor.





6. Remove shaft mounting bolt (Figure 27, item 1) and remove shaft.

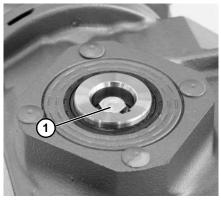


Figure 27

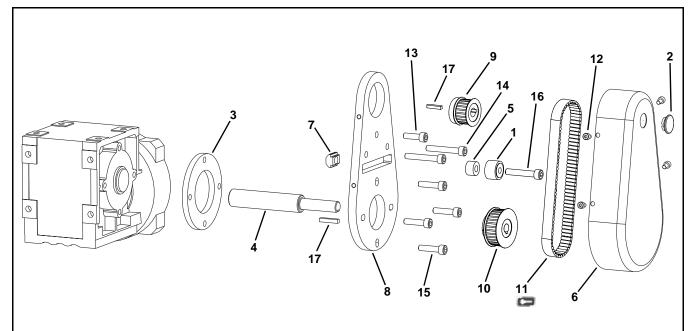
7. Repeat in reverse order to install new gearmotor.

Service Parts

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.

Center Mount Drive Package for SEW Gearmotors

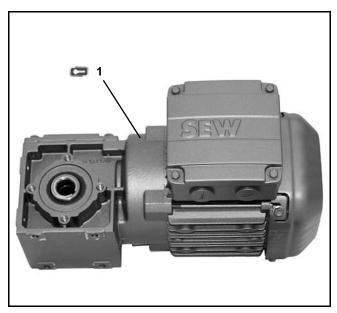


Item	Part Number	Description				
1	802-046	Bearing				
2	807-226	Snap-out Plastic Plug				
3	201676	Spacer Ring				
4	201677	Output Shaft				
5	450195M	Spacer				
6	200376M	Drive Guard				
7	202390M	Nut Follower				
8	460026M	Mounting Plate				
9	450365MP	Driven Pulley, 19 Tooth				
	450366MP	Driven 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				

Item	Part Number	Description
11	814-103	Timing Belt, 15 mm W x 385 mm L
	814-100	Timing Belt, 15 mm W x 400 mm L
	814-096	Timing Belt, 15 mm W x 425 mm L
	814-105	Timing Belt, 15 mm W x 460 mm L
12	920406M	Socket Head Screw M4 x 6 mm
13	920620M	Socket Head Screw M6 - 1.00 x 20 mm
14	920625M	Socket Head Screw M6 - 1.00 x 25 mm
15	920640M	Socket Head Screw M6 - 1.00 x 40 mm
16	920898M	Low Head Cap Screw M8 - 1.25 x 40 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, 60 Hz, 39:1
	22M017WS423EN	Gearmotor, 0.33 Hp (0.25 Kw), 230/460 Volts, 60 Hz, 16.5:1
	22M008WS423EN	Gearmotor, 0.50 Hp (0.37 Kw), 230/460 Volts, 60 Hz, 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									
2200									
2200 Modular Belt									
2200 Precision Move									
2300									
2300 Modular Belt									
3200		30% re	turn fee fe	or all products	except:				
3200 LPZ		cle	ated belt	or all products nveyors with or specialty b	elts		non-ret	turnable	case-by-case
3200 Precision Move									
4100									
5200									
5300									
6200									
Controls									
7200 / 7300		50%	% return f	ee for all prod	ucts		1		
7350									
7360						mahla			
7400	non-returnable								
7600	1								

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. 2010

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