

# Installation, Maintenance & Parts Manual

# 2100, 2200, 4100, 6200 and MPB Series Top Mount Drive Package for Standard Load Parallel Shaft 60 Hz Gearmotors







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#### Warnings - General Safety



#### **WARNING**



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



# A

## **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.



# A

# **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.

#### 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: 5131529, 5174435, and corresponding patents and patent applications in other countries.

Dorner 2200 and MPB Series conveyors are covered by patent number 5174435 and corresponding patents and patent applications in other countries.

Dorner 4100 Series conveyors are covered by patent number 3923148 and corresponding patents and patent applications in other countries.

Dorner 6200 Series conveyors are covered by patent number 6685009, 5174435, 6109427 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



# **Product Description**

Refer to Figure 1 for typical components.

	Typical Components
Α	Conveyor
В	Mounting Bracket
С	Gearmotor
D	Timing Belt Tensioner
Ε	Cover
F	Timing Belt
G	Drive Pulley
Н	Driven Pulley

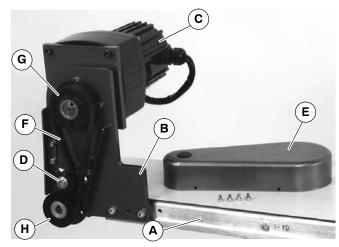
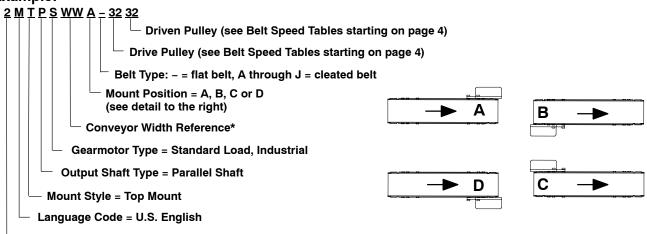


Figure 1

# **Specifications**

#### **Gearmotor Mounting Package Models:**

#### Example:



2 = 2100 Series Conveyor

22 = 2200 & MPB Series Conveyor

4 = 4100 Series Conveyor

6 = 6200 Series Conveyor

2P = MPB Series Conveyor

#### **Table 1: Gearmotor Specifications**

	Single Phase	Three Phase	DC Variable Speed			
Output Power	0.17 hp	(0.13 kw)	0.25 hp (0.19 kw)			
Input Voltage	115 Volts A.C.	230 Volts A.C.	130 Volts D.C.			
Input Frequency	60	Hz	N/A			
Input Current	1.9 Amperes	1.2 Amperes	1.8 Amperes			
Motor RPM	17	725	2500			
Gearmotor Ratios		5:1, 10:1, 20:1, 30:1, 60:	1, 80:1			
Frame Size		NEMA 42 CZ				
Motor Type	Totally enclose	ed, Fan-cooled	Totally enclosed, Non-ventilated			

<sup>\*</sup> See "Ordering and Specifications" Catalog for details.

# **Specifications**

Table 2: Belt Speeds for Standard Load Fixed Speed Parallel Shaft 60 Hz Gearmotors on 2100, 2200 Gang Drive, 4100 and 6200 Series Conveyors

Belt 9	Speed		Gearmotors				Drive	Driven
Ft/min	M/min	Part Number	Gear Ratio	RPM	In-lb	N-m	Pulley	Pulley
2	0.6	62M180PS4(vp)F(n)	180:1	10	341	38.5	22	32
3	0.9	62M180PS4(vp)F(n)	180:1	10	341	38.5	32	32
4	1.2	62M180PS4(vp)F(n)	180:1	10	341	38.5	48	32
6	1.7	62M060PS4(vp)F(n)	60:1	29	270	30.5	22	32
8	2.4	62M060PS4(vp)F(n)	60:1	29	270	30.5	32	32
12	3.7	62M060PS4(vp)F(n)	60:1	29	270	30.5	48	32
16	4.9	62M030PS4(vp)F(n)	30:1	58	135	15.3	32	32
25	7.6	62M020PS4(vp)F(n)	20:1	86	90	10.2	32	32
37	11.3	62M020PS4(vp)F(n)	20:1	86	90	10.2	48	32
49	14.9	62M010PS4(vp)F(n)	10:1	173	45	5.1	32	32
74	22.6	62M010PS4(vp)F(n)	10:1	173	45	5.1	48	32
99	30.2	62M005PS4(vp)F(n)	5:1	345	25	2.8	32	32
148	45.1	62M005PS4(vp)F(n)	5:1	345	25	2.8	48	32
169	51.5	62M005PS4(vp)F(n)	5:1	345	25	2.8	48	28
197	60.0	62M005PS4(vp)F(n)	5:1	345	25	2.8	44	22
215	65.5	62M005PS4(vp)F(n)	5:1	345	25	2.8	48	22
249	75.9	62M005PS4(vp)F(n)	5:1	345	25	2.8	48	19

(vp) = voltage and phase 11 = 115 V, 1-phase 23 = 230V, 3-phase (n) = reversing capabilityN = no reversing switchR = with reversing switch(115V, 1 phase only)

Table 3: Belt Speeds for Standard Load Fixed Speed Parallel Shaft 60 Hz Gearmotors on 2200 Series Conveyors (Excluding Gang Drive)

Belt 9	Speed		Gearmotors *				Drive	Driven
Ft/min	M/min	Part Number	Gear Ratio	RPM	In-Ib	N-m	Pulley	Pulley
3	0.9	62M180PS4(vp)F(n)	180:1	10	341	38.5	28	28
5	1.5	62M180PS4(vp)F(n)	180:1	10	341	38.5	44	22
6	1.7	62M060PS4(vp)F(n)	60:1	29	270	30.5	19	32
10	3.0	62M060PS4(vp)F(n)	60:1	29	270	30.5	28	28
16	4.9	62M060PS4(vp)F(n)	60:1	29	270	30.5	44	28
30	9.1	62M020PS4(vp)F(n)	20:1	86	90	10.2	28	28
48	14.6	62M020PS4(vp)F(n)	20:1	86	90	10.2	44	28
61	18.6	62M010PS4(vp)F(n)	10:1	173	45	5.1	28	28
95	29.0	62M010PS4(vp)F(n)	10:1	173	45	5.1	44	28
104	31.7	62M010PS4(vp)F(n)	10:1	173	45	5.1	48	28
121	36.9	62M005PS4(vp)F(n)	5:1	345	25	2.8	28	28
138	42.1	62M005PS4(vp)F(n)	5:1	345	25	2.8	32	28
176	53.6	62M005PS4(vp)F(n)	5:1	345	25	2.8	32	22
208	63.4	62M005PS4(vp)F(n)	5:1	345	25	2.8	48	28
242	73.8	62M005PS4(vp)F(n)	5:1	345	25	2.8	44	22
264	80.5	62M005PS4(vp)F(n)	5:1	345	25	2.8	48	22

(vp) = voltage and phase

(n) = reversing capability N =no reversing switch

11 = 115 V, 1-phase 23 = 230V, 3-phase

R = with reversing switch (115V, 1 phase only)

Table 4: Belt Speeds for Standard Load Fixed Speed Parallel Shaft 60 Hz Gearmotors on MPD Series Conveyors

Belt S	Speed		Gearmotors					
Ft/min	M/min	Part Number	Gear Ratio	RPM	In-lb	N-m	Pulley	Pulley
4.5	1.4	62M180PS4(vp)F(n)	180:1	10	341	38.5	22	32
6	1.7	62M060PS4(vp)F(n)	60:1	29	270	30.5	19	32
6.5	2	62M180PS4(vp)F(n)	180:1	10	341	38.5	28	28
13	4.0	62M060PS4(vp)F(n)	60:1	29	270	30.5	22	32
20	6.0	62M060PS4(vp)F(n)	60:1	29	270	30.5	28	28
39	11.9	62M030PS4(vp)F(n)	30:1	58	135	15.3	28	28
59	17.9	62M020PS4(vp)F(n)	20:1	86	90	10.2	28	28

(vp) = voltage and phase 11 = 115 V, 1-phase

23 = 230V, 3-phase

(n) = reversing capability

N = no reversing switch

R = with reversing switch (115V, 1 phase only)

Table 5: Belt Speeds for Standard Load Variable Speed Parallel Shaft VFD Gearmotors on 2100, 4100 and 6200 Series Conveyors

Belt S	Speed		Gearmotors				Drive	Driven
Ft/min	M/min	Part Number	Gear Ratio	RPM*	In-lb*	N-m*	Pulley	Pulley
.6-5.6	.2-1.7	62M060PS423EN	60:1	29	270	30.5	22	32
.8-8.2	.3–2.5	62M060PS423EN	60:1	29	270	30.5	32	32
2.5-25	.8–7.5	62M020PS423EN	20:1	86	167	18.9	32	32
4.9-49	1.5–15	62M010PS423EN	10:1	173	115	13	32	32
9.9-99	3–30	62M005PS423EN	5:1	345	58	6.5	32	32
14–148	4.5–45	62M005PS423EN	5:1	345	58	6.5	48	32
19–197	6–60	62M005PS423EN	5:1	345	58	6.5	44	22
24-249	7.6-76	62M005PS423EN	5:1	345	58	6.5	48	19

<sup>\*</sup> At 60 Hz

Table 6: Belt Speeds for Standard Load Variable Speed Parallel Shaft VFD Gearmotors on 2200 Series Conveyors (Excluding Gang Drive)

Belt S	Speed		Gearmotors *				Drive	Driven Pulley
Ft/min	M/min	Part Number	Gear Ratio	RPM*	In-lb*	N-m*	Pulley	
.6-6	.2-1.8	62M060PS423EN	60:1	29	270	30.5	19	32
1–10	.3–3.1	62M060PS423EN	60:1	29	270	30.5	28	28
3–30	.9–9.2	62M020PS423EN	20:1	86	167	18.9	28	28
6–60	1.8–18	62M010PS423EN	10:1	173	115	13	28	28
10–104	3.2-32	62M010PS423EN	10:1	173	115	13	48	28
12-121	3.7–37	62M005PS423EN	5:1	345	58	6.5	28	28
26-264	8.1–81	62M005PS423EN	5:1	345	58	6.5	48	22

<sup>\*</sup> At 60 Hz

# **Specifications**

Table 7: Belt Speeds for Standard Load Variable Speed Parallel Shaft VFD Gearmotors on MPD Series Conveyors

Belt S	Speed		Gearmotors					Driven
Ft/min	M/min	Part Number	Gear Ratio	RPM*	In-lb*	N-m*	Pulley	Pulley
1.3-13.4	.4-4.1	62M060PS423EN	60:1	29	270	30.5	22	32
2–19	.9–5.9	62M060PS423EN	60:1	29	270	30.5	28	28
5.9-59	1.8–18	62M020PS423EN	20:1	86	167	18.9	28	28
11–117	3.6–36	62M010PS423EN	10:1	173	115	13	28	28
17–175	5.4–54	62M010PS423EN	10:1	173	115	13	48	32
23-234	7.1–71	62M005PS423EN	5:1	345	58	6.5	28	28

<sup>\*</sup> At 60 Hz

Table 8: Belt Speeds for Standard Load Variable Speed Parallel Shaft DC Gearmotors on 2100, 4100 and 6200 Series Conveyors

Belt S	Speed		Gearmotors				Drive	Driven
Ft/min	M/min	Part Number	Gear Ratio	RPM	In-lb	N-m	Pulley	Pulley
.3-2.7	.18	62M180PSD3DEN	180:1	14	341	38.5	22	32
.5–4	.1–1.2	62M180PSD3DEN	180:1	14	341	38.5	32	32
1.0-8.2	.3–2.5	62M060PSD3DEN	60:1	42	270	30.5	22	32
1.4-12	.4–3.6	62M060PSD3DEN	60:1	42	270	30.5	32	32
2.9-24	.9–7.3	62M030PSD3DEN	30:1	83	135	15.3	32	32
4.3-36	1.3–11	62M020PSD3DEN	20:1	125	90	10.2	32	32
9–71	2.6-22	62M010PSD3DEN	10:1	250	72	8.1	32	32
17–143	5.2-43	62M005PSD3DEN	5:1	500	25	2.8	32	32
26-214	7.8–65	62M005PSD3DEN	5:1	500	25	2.8	48	32
29-245	9.0–75	62M005PSD3DEN	5:1	500	25	2.8	48	28

Table 9: Belt Speeds for Standard Load Variable Speed Parallel Shaft DC Gearmotors on 2200 Series Conveyors (Excluding Gang Drive)

Belt S	Speed		Gearmotors				Drive	Driven
Ft/min	M/min	Part Number	Gear Ratio	RPM	In-Ib	N-m	Pulley	Pulley
.4-3.4	.1–1.0	62M180PSD3DEN	180:1	14	341	38.5	22	32
.6–5	.2–1.5	62M180PSD3DEN	180:1	14	341	38.5	28	28
1.8–14	.5–4.5	62M060PSD3DEN	60:1	42	270	30.5	28	28
2.8-23	.8–7	62M060PSD3DEN	60:1	42	270	30.5	44	28
3.5-29	1.1-9	62M030PSD3DEN	30:1	83	135	15.3	28	28
5.3-44	1.6–13	62M020PSD3DEN	20:1	125	90	10.2	28	28
10-88	3.2–27	62M010PSD3DEN	10:1	250	72	8.1	28	28
17–138	5–42	62M005PSD3DEN	5:1	500	25	2.8	44	28
21–176	6.4-54	62M005PSD3DEN	5:1	500	25	2.8	28	28
33–276	10–84	62M005PSD3DEN	5:1	500	25	2.8	44	28

Table 10: Belt Speeds for Standard Load Variable Speed Parallel Shaft DC Gearmotors on MPB Series Conveyors

Belt 9	Speed		Gearmotors				Drive	Driven Pulley
Ft/min	M/min	Part Number	Gear Ratio	RPM	In-Ib	N-m	Pulley	
1.1-9	.3-2.9	62M180PSD3DEN	180:1	14	341	38.5	28	28
2.3-19	.7–5.9	62M060PSD3DEN	60:1	42	270	30.5	22	32
3.4–28	1-8.6	62M060PSD3DEN	60:1	42	270	30.5	28	28
5.3-44	1.6–13	62M060PSD3DEN	60:1	42	270	30.5	44	28
6.8–57	2.1–17	62M030PSD3DEN	30:1	83	135	15.3	28	28
10-85	3–26	62M020PSD3DEN	20:1	125	90	10.2	28	28
15–127	4.7–39	62M020PSD3DEN	20:1	125	90	10.2	48	32
20–170	6–52	62M010PSD3DEN	10:1	250	72	8.1	28	28
31–255	9–77	62M010PSD3DEN	10:1	250	72	8.1	48	32

<sup>\* =</sup> Cleated and Sidewall Cleated belts opperate at a maximum of 150 Ft/min (45.7 m/min)

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

## Installation

#### **Required Tools**

- Hex key wrenches:2 mm, 2.5 mm, 3 mm, 5 mm
- Torque wrench

#### Mounting







## **WARNING**

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

DO NOT REVERSE MPB SERIES CONVEYORS.





# WARNING

For MPB Series and Cleated Belt Conveyors Gearmotors must be mounted as shown in Figure 3.

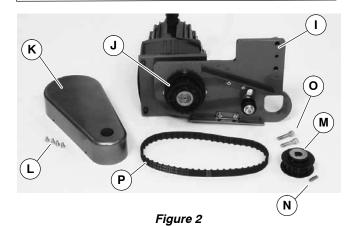
Failure to do so creates pinch points which can cause severe injury.

#### Installation

**1.** Typical components (Figure 2)

#### **Installation Component List**

- I Top Mount Assembly
- J Drive Pulley
- K Cover
- L M4 Socket Head Screws (4x)
- M Driven Pulley
- N Key
- O M6 Socket Head Screws (2x)
- P Timing Belt



**2.** For your reference, the following figures show gearmotor mounting configurations for various conveyor series.

Figure 3 – 2200 Series
Gearmotor
is mounted
to Head
Plate



Figure 4 – 6200 Series
Gearmotor
is mounted to
Drive Spacer

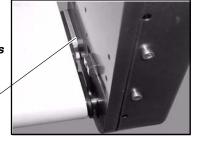


Figure 5 - 4100 Series
Gearmotor
is mounted
to Drive
Adapter
Plate



Figure 6 – 2100 Series
Gearmotor
is mounted
to Head
Plate

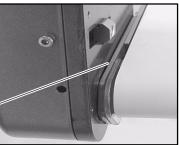


Figure 7 - MPB Series
Gearmotor
is mounted
to Head
Plate



NOTE: 6200 Series conveyor shown, other Series similar.

**3.** Locate drive output shaft (Q of Figure 8) and remove two (2) screws (R).

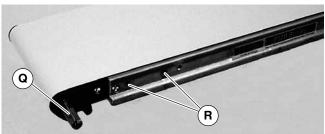


Figure 8

#### Installation

**4.** Attach mount assembly (I of Figure 9) with screws (O). Tighten screws to 80 in-lb (9 N-m).

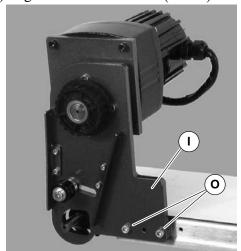


Figure 9



**5.** Install key (N of Figure 10).

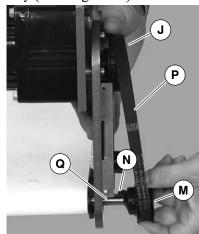


Figure 10

**6.** Wrap timing belt (P) around driven pulley (M) and drive pulley (J). Install driven pulley onto conveyor shaft (Q).

7. Remove cam bearing and spacer (S of Figure 9). Place the cam bearing and spacer (S of Figure 11) next to the driven pulley (M). Ensure the flanges of the driven pulley are aligned with the cam bearing. Tighten driven pulley set screws (T). This will allow for proper belt alignment while conveyor is in use. Install cam bearing and spacer (S).

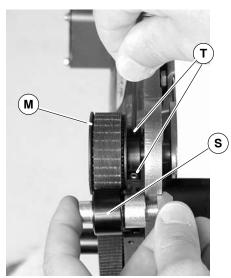


Figure 11

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

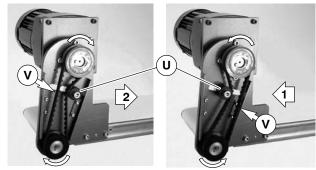


Figure 12

## Installation

**9.** Install cover (K of Figure 13) with four screws (L). Tighten to 35 in-lb (4 N-m).

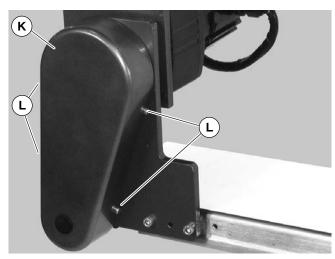


Figure 13

## **Preventive Maintenance and Adjustment**

#### **Required Tools**

- Hex key wrenches
  - 2 mm, 2.5 mm, 3 mm & 5 mm
- Adjustable wrench (for hexagon head screws)
- Torque wrench

#### **Timing Belt Tensioning**



- 1. Remove four screws (L of Figure 13) and remove cover (K).
- 2. Loosen tensioner (U of Figure 14).

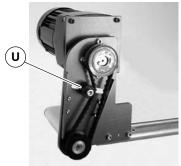


Figure 14

- 3. Depending on direction of conveyor belt travel (1 or 2 of Figure 12), position belt tensioner (U) as shown. Tension belt to obtain 0.125" (3 mm) deflection for 1.0 lb (456 grams) of force at belt mid-point (V). Tighten tensioner screw to 103 in-lb (12 N-m).
- **4.** Install cover (K of Figure 13) with four screws (L). Tighten to 35 in-lb (4 N-m).

## **Preventive Maintenance and Adjustment**

#### **Timing Belt Replacement**

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

- **1.** Remove four screws (L of Figure 13) and remove cover (K).
- **2.** Loosen tensioner (U of Figure 14).
- **3.** Remove timing belt (P of Figure 15).

NOTE: If timing belt does not slide over pulley flange, loosen two driven pulley set screws (T of Figure 15) and remove pulley with belt (P). For re-installation, see steps 6 and 7 on page 9.

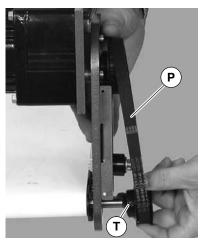


Figure 15

- **4.** Install new timing belt.
- 5. Depending on conveyor belt travel (direction 1 or 2), locate timing belt tensioner (U of Figure 12) 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 (V). Tighten tensioner screw to 103 in-lb (12 N-m).
- **6.** Install cover (K of Figure 13) with four screws (L). Tighten to 35 in-lb (4 N-m).

#### **Drive or Driven Pulley Replacement**



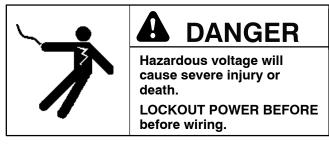
- **1.** Complete steps 1 through 3 of "Timing Belt Replacement" section on this page.
- 2. Loosen set screws and remove drive or driven pulley.

NOTE: If drive pulley (J of Figure 18) was replaced, wrap timing belt around drive pulley and complete step 3.

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

#### **Gearmotor Replacement**





 For single phase motor, unplug power cord from outlet.

## **Preventive Maintenance and Adjustment**

- **2.** For three phase motor:
- **a.** Loosen terminal box screws (W of Figure 16) and remove cover (X).

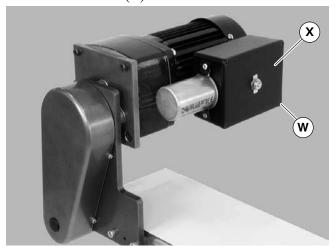


Figure 16

- **b**. Record incoming wire colors connecting to red, black and blue leads. Loosen wire nuts and remove incoming wires.
- c. Loosen cord grip and remove cord.
- **3.** For DC variable speed motor, unplug motor cord at disconnect (Y of Figure 17).

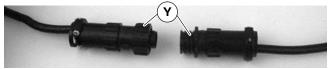


Figure 17

- **4.** Remove four screws (L of Figure 13) and remove cover (K).
- **5.** Loosen tensioner (U of Figure 14).
- **6.** Loosen drive pulley set screws (Z of Figure 18). Remove drive pulley (J) and timing belt (P).

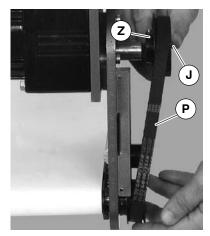


Figure 18

**7.** Remove four gear motor mounting screws (AA of Figure 19). Remove gearmotor/adapter plate Assembly.

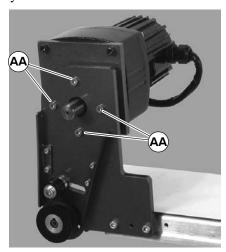


Figure 19

**8.** Remove four adapter plate screws (AB of Figure 20). Remove adapter plate.

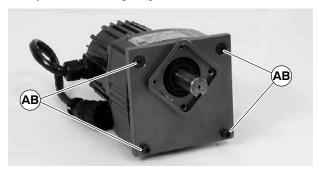


Figure 20

- **9.** Install new gearmotor to adapter plate with screws (AB of Figure 20). Tighten screws to 103 in-lb (12 N-m).
- **10.** Install gearmotor/adapter plate assembly on mounting bracket with screws (AA of Figure 19). Tighten screws to 103 in-lb (12 N-m).

NOTE: If drive pulley (J of Figure 18) was removed, wrap timing belt around drive pulley and complete step 11.

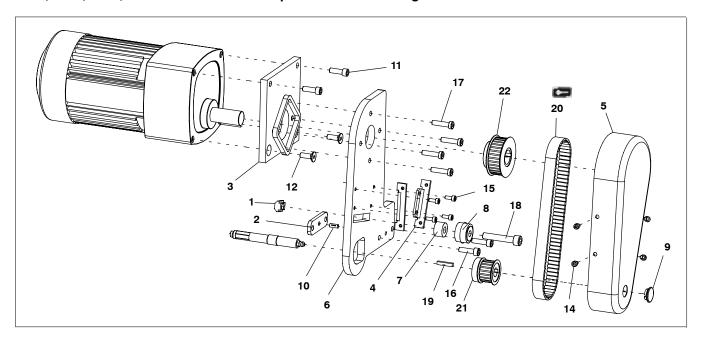
- **11.** Complete steps 6 through 9 of "Installation" section beginning on page 9.
- **12.** Replace wiring:
- For a single phase motor, reverse step 1 on page 11.
- For a three phase motor, reverse step 2, on this page.
- For a DC variable speed motor, reverse step 3 on this page.

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## **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.

#### 2100, 2200, 4100, 6200 and MPB Series Top Mount Drive Package

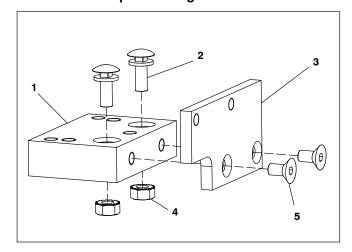


Item	Part Number	Description
1	202390M	Nut, Cam Follower
2	450027M	Adaptor Plate Assembly (6200 Only)
3	450029M	Adaptor Plate Assembly
4	450375M	Cover Mounting Bracket
5	450376M	Drive Guard
6	450443M	Grove Mounting Plate
7	450445	Spacer
8	802-046	Bearing
9	807-226	Snap-out Plastic Plug
10	807-952	Groove Pin (6200 Only)
11	902-157	Sock Cap Head Screw 1/4-28 x .75"
12	903–161	Flat Cap Head Screw 1/4-28 x .75"
13	912-084	Square Key .188" x 1.50" ???
14	920406M	Socket Head Screw M4 x 6mm
15	920410M	Socket Head Screw M4 x 10mm
16	920625M	Socket Head Screw M6 x 25mm
	920616M	Socket Head Screw M6 x 16mm (4100 Only)
17	920695M	Socket Low Head Screw M6 x 20mm
18	920845M	Socket Head Screw M8 x 45mm

19	980422M	Square Key 4mm x 22mm
	912-053	Square Key .125" x .75" (4100 Series – 1" (25mm) Wide Conveyor Only)
20	814-104	Timing Belt, 15mm W x 450mm L
	814-105	Timing Belt, 15mm W x 460mm L
	814-065	Timing Belt, 15mm W x 475mm L
	814-112	Timing Belt, 15mm W x 495mm L
	814-101	Timing Belt, 15mm W x 500mm L
	814-108	Timing Belt, 15mm W x 520mm L
	814-064	Timing Belt, 15mm W x 535mm L
	814-099	Timing Belt, 15mm W x 565mm L
21	450365MP	Driven Pulley, 19Tooth, 12mm bore
	450366MP	Driven Pulley, 22Tooth, 12mm bore
	450367MP	Driven Pulley, 28Tooth, 12mm bore
	450368MP	Driven Pulley, 32Tooth, 12mm bore
22	450434	Drive Pulley, 22Tooth, 0.75" bore
	450435	Drive Pulley, 28Tooth, 0.75" bore
	450436	Drive Pulley, 32Tooth, 0.75" bore
	450437	Drive Pulley, 44Tooth, 0.75" bore
	450438	Drive Pulley, 48Tooth, 0.75" bore
	450439	Drive Pulley, 60Tooth, 0.75" bore

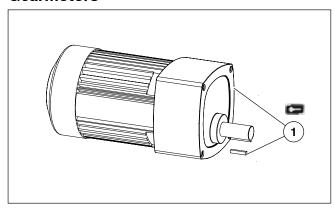
# **Service Parts**

#### 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	Bolt & Flat Washer Assembly
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
	62M180PS411FN	Motor, 0.08hp (0.06Kw), 10 RPM, 115VAC, 60Hz, 1-Phase
	62M180PS411FR	Motor, 0.08hp (0.06Kw), 10 RPM, 115VAC, 60Hz, 1-Phase with reversing switch
	62M060PS411FN	Motor, 0.17hp (0.13Kw), 29 RPM, 115VAC, 60Hz, 1-Phase
	62M060PS411FR	Motor, 0.17hp (0.13Kw), 29 RPM, 115VAC, 60Hz, 1-Phase with reversing switch
	62M060PS423FN	Motor, 0.25hp (0.19Kw), 29 RPM, 230VAC, 60Hz, 3-Phase
	62M030PS411FN	Motor, 0.17hp (0.13Kw), 58 RPM, 115VAC, 60Hz, 1-Phase
	62M030PS411FR	Motor, 0.17hp (0.13Kw), 58 RPM, 115VAC, 60Hz, 1-Phase with reversing switch

6	2M030PS423FN	Motor, 0.25hp (0.19Kw), 58 RPM, 230VAC, 60Hz, 3-Phase
6	62M020PS411FN	Motor, 0.17hp (0.13Kw), 86 RPM, 230VAC, 60Hz, 1-Phase
6	62M020PS411FR	Motor, 0.17hp (0.13Kw), 86 RPM, 115VAC, 60Hz, 1-Phase with reversing switch
6	32M010PS411FN	Motor, 0.17hp (0.13Kw), 173 RPM, 115VAC, 60Hz, 1-Phase
6	62M010PS411FR	Motor, 0.17hp (0.13Kw), 173 RPM, 115VAC, 60Hz, 1-Phase with reversing switch
6	62M010PS423FN	Motor, 0.25hp (0.19Kw), 173 RPM, 230VAC, 60Hz, 3-Phase
6	62M005PS411FN	Motor, 0.17hp (0.13Kw), 345 RPM, 230VAC, 60Hz, 1-Phase
6	62M005PS411FR	Motor, 0.17hp (0.13Kw), 345 RPM, 115VAC, 60Hz, 1-Phase with reversing switch
6	62M180PSD3DEN	Motor, 0.12hp (0.09Kw), 14 RPM, 130VDC
6	2M060PSD3DEN	Motor, 0.25hp (0.19Kw), 42 RPM, 130VDC
6	2M030PSD3DEN	Motor, 0.25hp (0.19Kw), 83 RPM, 130VDC
6	2M020PSD3DEN	Motor, 0.25hp (0.19Kw), 125 RPM, 130VDC
6	2M010PSD3DEN	Motor, 0.25hp (0.19Kw), 250 RPM, 130VDC
6	2M005PSD3DEN	Motor, 0.25hp (0.19Kw), 500 RPM, 130VDC

#### **Return Policy**

No returns will be accepted without prior written factory authorization. When calling for authorization, please have the following information ready for the Dorner Factory representative or your local distributor:

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

A representative will discuss action to be taken on the Returned items and provide a Returned Goods Authorization Number to reference.

There will be a 15% restocking charge on all new items returned for credit where Dorner was not at fault. These will not be accepted after 60 days from original invoice date. The restocking charge covers inspection, cleaning, disassembly, and reissuing to inventory.

If a replacement is needed prior to evaluation of returned item, a purchase order must be issued. Credit (if any) is issued only after return and evaluation is complete.

Dorner has representatives throughout the world. Feel free to contact Dorner for the name of your local representative. Our technical sales and service staff will gladly help with your questions on Dorner products.

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

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



851-255 Rev. I

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Printed in U.S.A.