

7200/7300 Series Top Mount Drive Package for Standard Load Parallel Shaft Sanitary Gearmotors

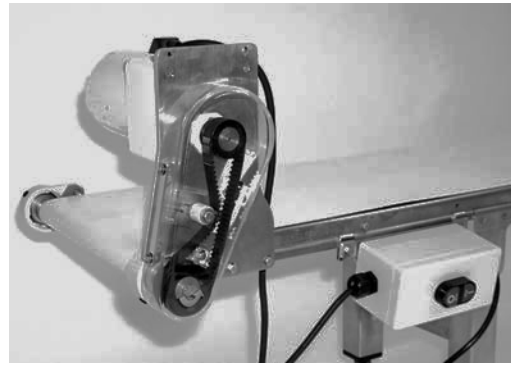


Table of Contents

Warnings – General Safety	2	Preventative Maintenance & Adjustment	11
Introduction	2	Required Tools	11
Product Description	3	Timing Belt or Chain Replacement	11
Specifications	3	A – Timing Belt Replacement	11
Installation	5	B – Timing Chain Replacement	12
Required Tools	5	Service Parts	14
Drive Package Mounting	5	7200 Series Drive Mounting Components	14
A – Mounting a Timing Belt Drive Package ...	5	7300 Series Drive Mounting Components	16
B – Mounting a Timing Chain Drive Package ..	7	Return Policy	18
Motor Starter Mounting	9		
Wiring	9		
Single-phase Motor Starter	9		
Three-phase Motor Starter	9		
VFD Controller	10		

Warnings – General Safety

	WARNING	
<p>The safety alert symbol, black triangle with white exclamation, is used to alert you to potential personal injury hazards.</p>		

	WARNING
<p>Gearmotors may be HOT. DO NOT TOUCH Gearmotors.</p>	

	DANGER
<p>Climbing, sitting, walking or riding on conveyor will cause severe injury. KEEP OFF CONVEYORS.</p>	

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

	DANGER
<p>Do NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.</p>	

	WARNING
<p>Dorner cannot control the physical installation and application of conveyors. Taking protective measures is the responsibility of the user.</p> <p>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.</p>	

	DANGER
<p>Hazardous voltage will cause severe injury or death. LOCKOUT POWER BEFORE WIRING.</p>	

Introduction

IMPORTANT: Some illustrations may show guards removed. Do NOT operate equipment without guards.

Upon receipt of shipment:

- Compare shipment with packing slip. Contact factory regarding discrepancies.
- Inspect packages for shipping damage. Contact carrier regarding damage.
- Accessories may be shipped loose. See accessory instructions for installation.

Dorner's Limited Warranty applies.

Dorner 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

Dorner 7200 and 7300 Series conveyors are covered by patent number 5174435, 6109427 and corresponding patents and patent applications in other countries.

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

Product Description

Refer to Figure 1 for typical components.

Typical Components	
A	Conveyor
B	Mounting Bracket
C	Gearmotor
D	Timing Belt Tensioner
E	Cover
F	Timing Belt
G	Drive Pulley
H	Driven Pulley
I	Motor Control

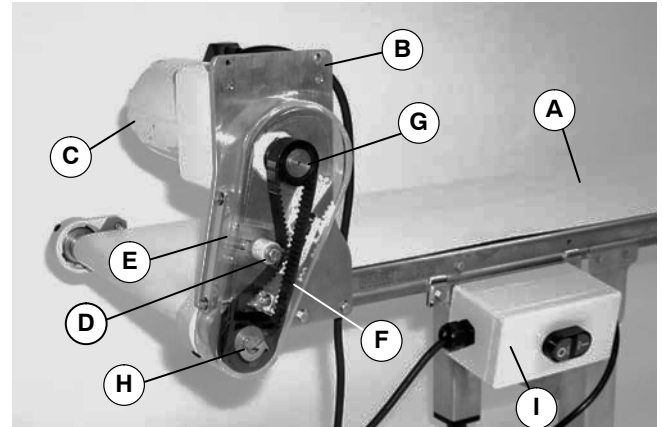
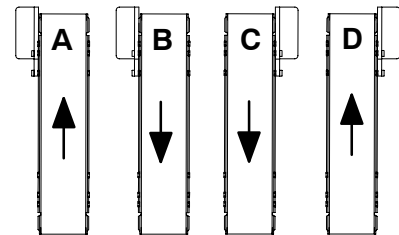
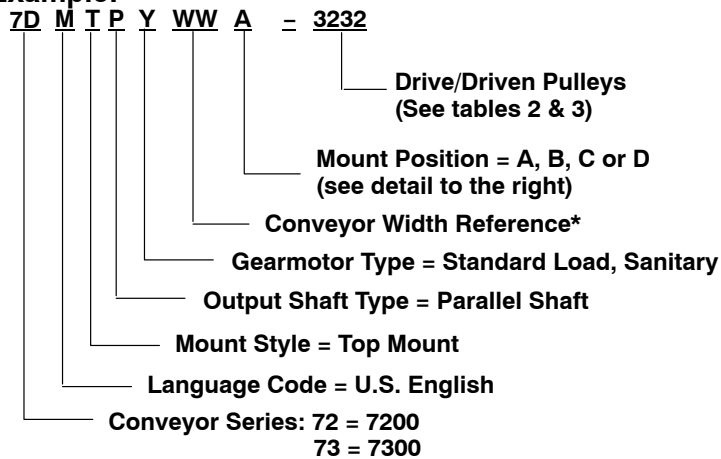


Figure 1

Specifications

Gearmotor Mounting Package Models:

Example:



* See "Ordering and Specifications" Catalog for details.

Table 1: Gearmotor Specifications

	Single-Phase	Three-Phase	VFD Variable Speed
Output Power	0.12 hp (0.09 kw)		
Input Voltage	115 Volts A.C.	230 Volts A.C.	230 Volts A.C.
Input Frequency	60 Hz	50/60 Hz	25 to 63 Hz
Full Load Amperes	1.5 Amperes	0.5 Amperes	
Gearmotor Ratios	9:1 and 30:1		
Protection Ratings	IP65 for Gearmotor, IP55 for Motor Starter		

Specifications

Table 2: Standard Load Fixed Speed Parallel Shaft 60 Hz Gearmotors

Gearmotor				Conveyor Belt Speed		Timing Belt		Timing Chain	
Part Number	RPM	In-lb	N-m	ft/min	M/min	Drive Pulley	Driven Pulley	Drive Pulley	Driven Pulley
62M030PY4(vp)FN	50	77	8.7	12	3.7	22	32	-	-
62M030PY4(vp)FN	50	77	8.7	21	6.4	-	-	12	10
62M030PY4(vp)FN	50	77	8.7	26	7.9	32	22	-	-
62M030PY4(vp)FN	50	77	8.7	32	9.8	-	-	18	10
62M030PY4(vp)FN	50	77	8.7	38	11.6	48	22	-	-
62M009PY4(vp)FN	167	26	2.8	58	17.7	32	32	-	-
62M009PY4(vp)FN	167	26	2.8	70	21.3	-	-	12	10
62M009PY4(vp)FN	167	26	2.8	94	28.7	-	-	16	10
62M009PY4(vp)FN	167	26	2.8	100	30.5	48	28	-	-
62M009PY4(vp)FN	167	26	2.8	117	35.7	-	-	20	10
62M009PY4(vp)FN	167	26	2.8	148	45.1	48	19	-	-

(vp) = voltage and phase
 11 = 115 V, Single-phase
 23 = 230 V, Three-phase

Table 3: Standard Load Variable Speed Parallel Shaft VFD Gearmotors

Gearmotor				Conveyor Belt Speed		Timing Belt		Timing Chain	
Part Number	RPM	In-lb	N-m	ft/min	M/min	Drive Pulley	Driven Pulley	Drive Pulley	Driven Pulley
62M030PY423EN	50	109	12.3	2.0 – 12	0.6 – 3.7	22	32	-	-
62M030PY423EN	50	109	12.3	4.3 – 26	1.3 – 7.9	32	22	-	-
62M030PY423EN	50	109	12.3	3.5 – 21	1.1 – 6.4	-	-	12	10
62M030PY423EN	50	109	12.3	5.3 – 32	1.6 – 9.8	-	-	18	10
62M030PY423EN	50	109	12.3	6.3 – 38	1.9 – 11.6	48	22	-	-
62M009PY423EN	167	37	4.2	9.7 – 58	2.9 – 17.7	32	32	-	-
62M009PY423EN	167	37	4.2	11.7 – 70	3.6 – 21.3	-	-	12	10
62M009PY423EN	167	37	4.2	13.3 – 80	4.1 – 24.4	44	32	-	-
62M009PY423EN	167	37	4.2	15.7 – 94	4.8 – 28.7	-	-	16	10
62M009PY423EN	167	37	4.2	16.7 – 100	5.1 – 30.5	48	28	-	-
62M009PY423EN	167	37	4.2	19.5 – 117	5.9 – 35.7	-	-	20	10
62M009PY423EN	167	37	4.2	24.7 – 148	7.5 – 45.1	48	19	-	-

* At 60 Hz

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



WARNING

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

Required Tools

- Wrenches (for hexagon head fasteners)
7 mm and 10 mm
- Hex key wrenches (for set screws)
2 mm, 2.5 mm and 3 mm
- Straight edge
- Torque wrench

Drive Package Mounting

Install drive mounting package following instructions:

- A – Mounting a Timing Belt Drive Package
- B – Mounting a Timing Chain Drive Package

A – Mounting a Timing Belt Drive Package

1. Typical components (Figure 2)

NOTE: Single-phase Motor Starter shown, Three-phase Starter or VFD Controller similar. 7300 Series drive package shown, 7200 Series similar.

Typical Components

J	Mounting Plate/Gearmotor Assembly
K	Drive Pulley
L	Driven Pulley
M	Key (from conveyor assembly)
N	M6 x 30 mm, Hexagon Head Screws (2 x) (7200) M6 x 65 mm, Hexagon Head Screws (2 x) (7300)
O	Timing Belt
P	Cover
Q	Accessory Mounting Clips (2x)
R	M6 x 20 mm, Hexagon Head Screws (2x)
S	Typical Motor Starter
T	Spacer (2x) (7300)

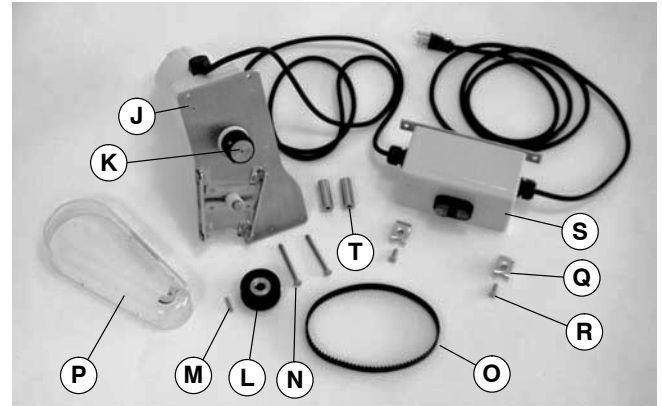


Figure 2

2. Locate conveyor input shaft (U of Figure 3) and remove and discard two screws (W).

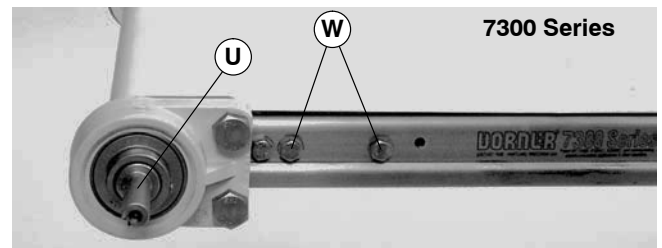
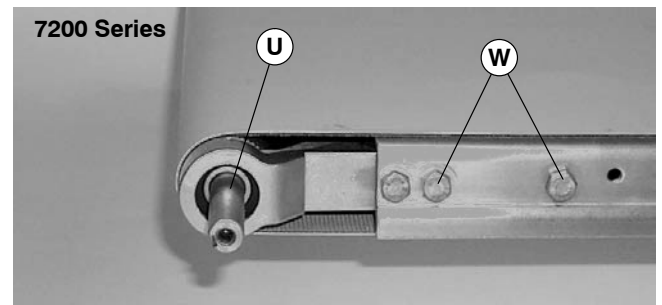


Figure 3

Installation

NOTE: For a 7300 Series mounting package (shown in Figure 4), install two spacers (T) (shipped loose) between the mounting plate/gearmotor assembly (J) and the conveyor. On a 7200 Series, the two spacers are attached to the mounting plate/gearmotor assembly.

3. Attach mounting plate/gearmotor assembly (J) and two spacers (see Note) with screws (N). Tighten screws to 92 in-lb (10.4 Nm).

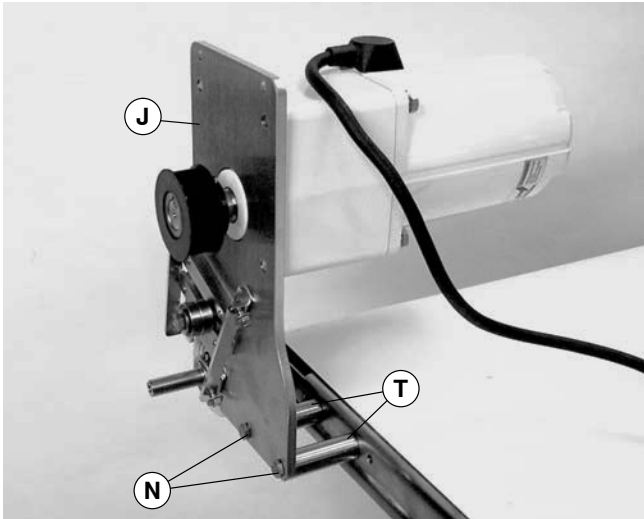


Figure 4

	<p>! WARNING</p> <p>Drive shaft keyway may be sharp.</p> <p>HANDLE WITH CARE.</p>
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4. Install key (M of Figure 5) on conveyor input shaft (U).

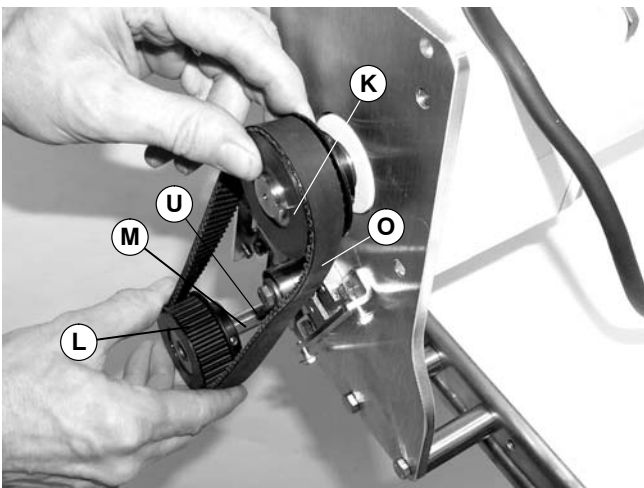


Figure 5

5. Depending on conveyor belt travel (direction 1 or 2 of Figure 6), locate timing belt tensioner (Z) as shown. Do not tighten tensioner screw.

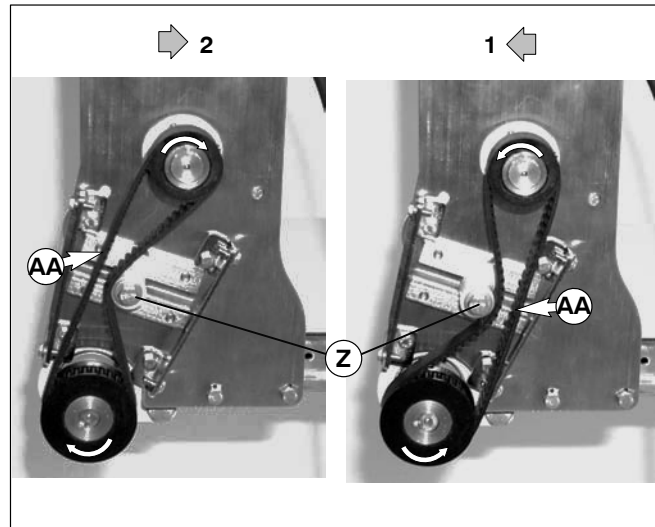


Figure 6

6. Wrap timing belt (O of Figure 5) around driven pulley (L) and drive pulley (K). Install driven pulley (L) on conveyor input shaft (U).
7. Using a straight edge (X of Figure 7), align driven pulley (L) with drive pulley (K). Tighten driven pulley set screws (Y).

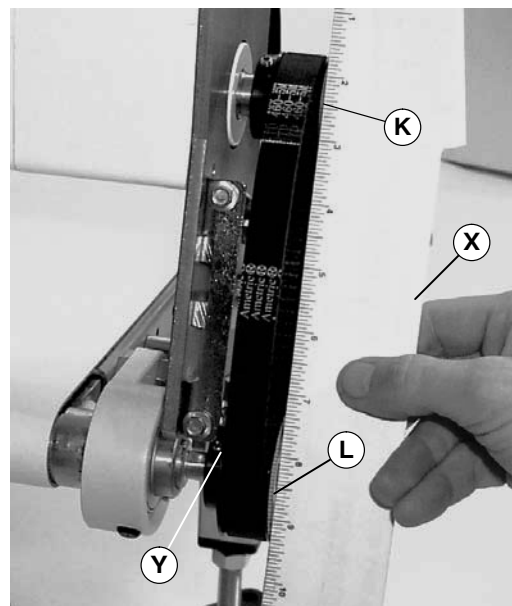


Figure 7

8. Tension timing belt to obtain 0.125" (3 mm) deflection for 1.0 lb (456 grams) of force at timing belt mid-point (AA of Figure 6). Tighten tensioner screw to 92 in-lb (10.4 Nm).

NOTE: Do not over-tighten screws (AB of Figure 8).

9. Install cover (P of Figure 8) and tighten four (4) screws (AB) to 35 in-lb (4 Nm).

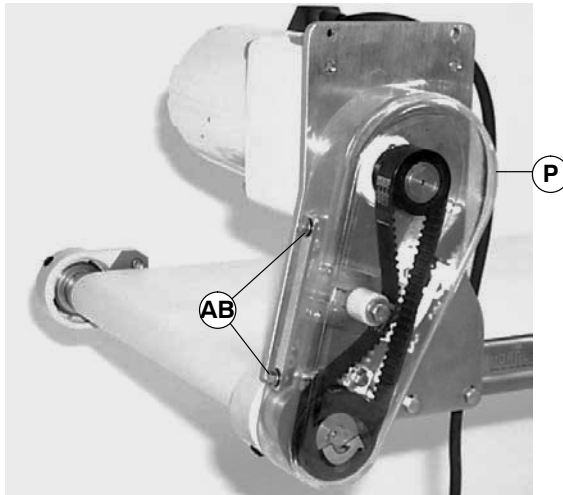


Figure 8

B – Mounting a Timing Chain Drive Package

1. Typical components (Figure 9)

NOTE: Single-phase Motor Starter shown, Three-phase Starter or VFD Controller similar. 7200 Series drive package shown, 7300 Series similar.

Typical Components

J	Mounting Plate/Gearmotor Assembly
M	Key (from conveyor assembly)
N	M6 x 30 mm, Hexagon Head Screws (2 x) (7200) M6 x 65 mm, Hexagon Head Screws (2 x) (7300)
P	Cover
Q	Accessory Mounting Clips (2x)
R	M6 x 20 mm, Hexagon Head Screws (2 x)
S	Typical Motor Starter
AE	Drive Sprocket
AF	Driven Sprocket
AG	Timing Chain

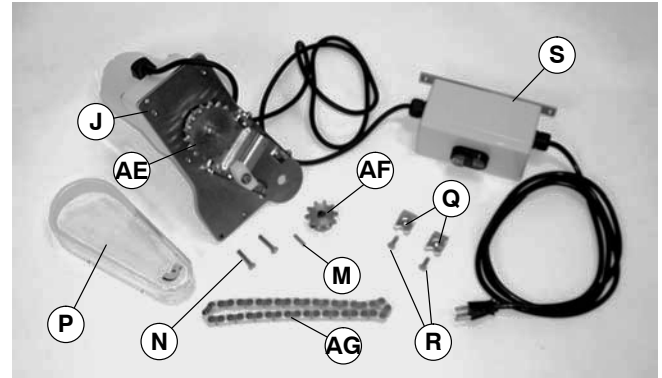


Figure 9

2. Locate conveyor input shaft (U of Figure 3). Remove and discard two screws (W).

NOTE: For a 7300 Series mounting package, install two spacers (T of Figure 2) (shipped loose) between mounting plate/gearmotor assembly (J) and conveyor. On a 7200 Series (shown), the two spacers (T of Figure 10) are attached to the mounting plate/gearmotor assembly.

3. Attach mounting plate/gearmotor assembly (J of Figure 10) and two spacers (see Note) with screws (N). Tighten screws to 92 in-lb (10.4 Nm).

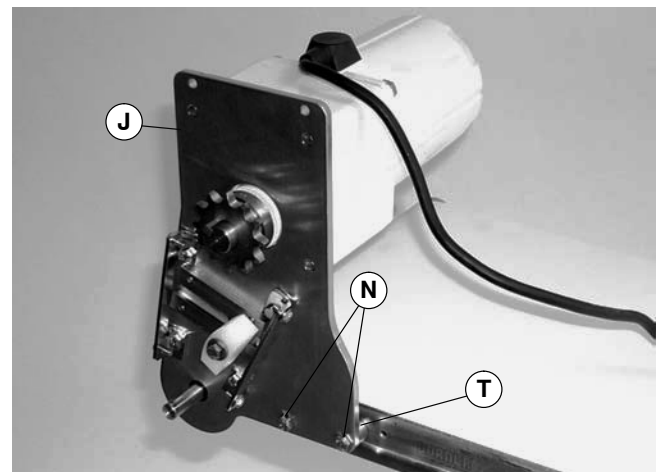


Figure 10



Installation

NOTE: Depending on sprocket sizes, it may be necessary to remove drive sprocket (AE of Figure 11) by loosening two set screws (AH) to install chain and sprockets.

4. Install key (M) on conveyor input shaft (U).

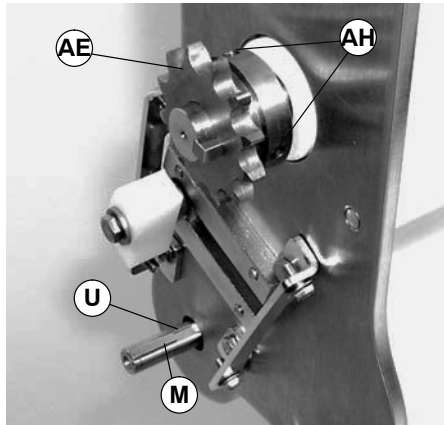


Figure 11

5. Depending on conveyor belt travel (direction 1 or 2 of Figure 12), locate timing chain tensioner (AI) as shown. Do not tighten tensioner screw.

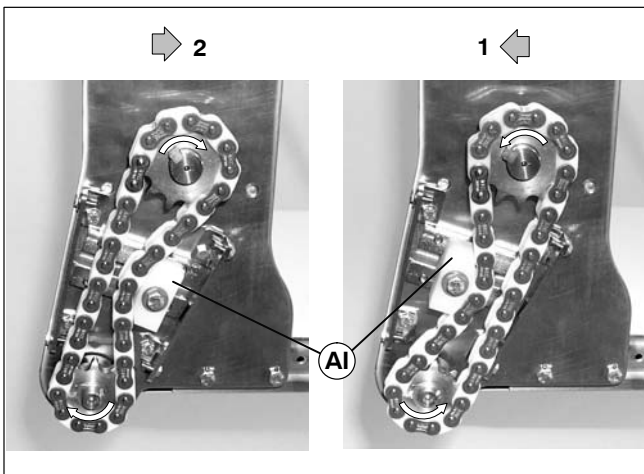


Figure 12

6. Install timing chain (AG of Figure 13) over sprockets (AE and AF). Install timing chain and sprockets on conveyor input shaft (U) and gearmotor output shaft (AJ). Do not tighten sprocket set screws.

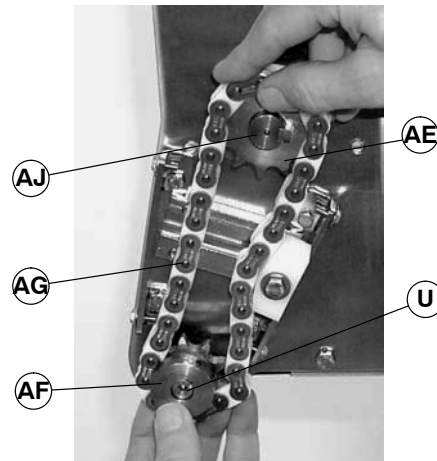


Figure 13

NOTE: Make sure center of timing chain (AG) aligns with center of chain tensioner (AI). If necessary, loosen two set screws (AH) to move drive sprocket (AE) in or out. Tighten set screws. Also, if necessary, loosen two set screws (AK) to move driven sprocket (AF) in or out. Tighten set screws.

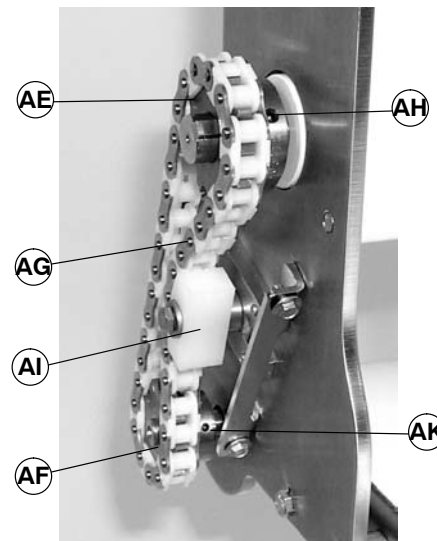


Figure 14

NOTE: Do not over-tension chain (AI). Only tension chain until slack is removed.

7. Slide chain tensioner (AI) to take up chain slack. Tighten chain tensioner screw to 92 in-lb (10.4 Nm).

NOTE: Do not over-tighten screws (AB of Figure 15).

8. Install cover (P of Figure 15) and tighten four screws (AB) to 35 in-lb (4 Nm).

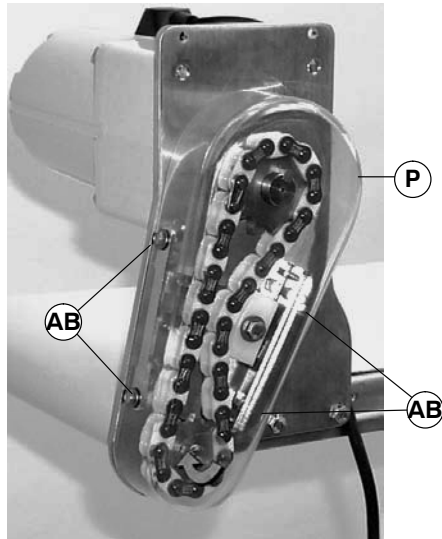


Figure 15

Motor Starter Mounting

NOTE: Single-phase Motor Starter shown, Three-phase Starter similar. For VFD controller mounting, see accessory instructions.

1. Attach two accessory mounting clips (Q of Figure 16) to motor starter (S) with two M6 x 20mm hex head cap screws (R). Do not tighten screws.

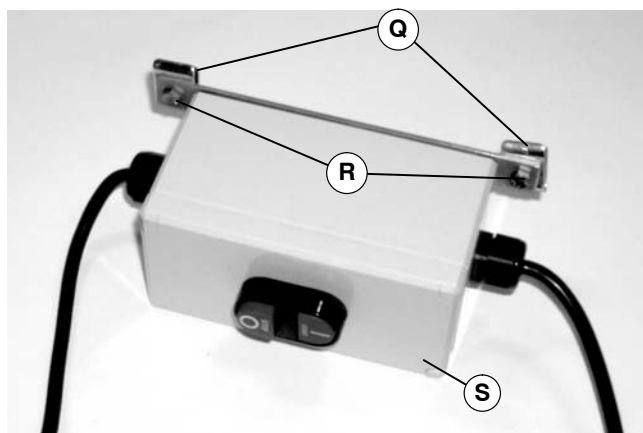


Figure 16

2. Attach motor starter (S of Figure 17) with clips to conveyor. Tighten screws (R) to 92 in-lb (10.4 Nm).

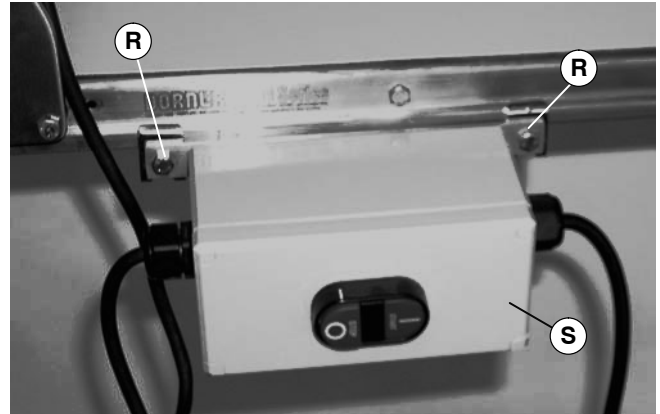


Figure 17

Wiring

Single-phase Motor Starter

NOTE: Power cord must be plugged into a GFI outlet. No additional wiring is required.

Three-phase Motor Starter

	DANGER
	<p>Hazardous voltage will cause severe injury or death.</p> <p>LOCKOUT POWER BEFORE WIRING.</p>

NOTE: 230 volt three-phase manual motor starters must be wired in accordance with applicable electrical codes.

1. Loosen cover screws (AL of Figure 18). Remove cover.

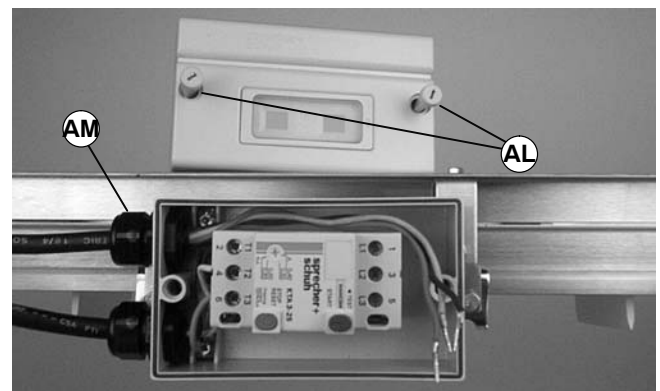


Figure 18

Installation

NOTE: Line cord must be 0.28" (7 mm) minimum to 0.47" (12 mm) maximum in diameter.

2. Insert line cord through grip (AM) and tighten nut.
3. For correct three-phase motor shaft rotation, connect line phase sequence L1, L2 & L3 to terminals as shown (Figure 19).

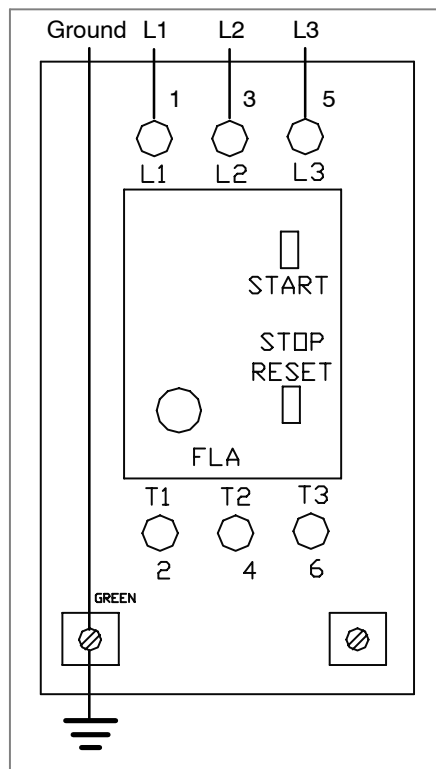


Figure 19

WARNING

Controller must be properly grounded. Failure to properly ground control box may cause injury to personnel.

NOTE: The motor ground wire is also attached to left terminal marked \perp (Figure 19).

4. Attach ground wire to lower left terminal marked \perp (see Figure 19).
5. Install cover and tighten screws (AL of Figure 18).

VFD Controllers

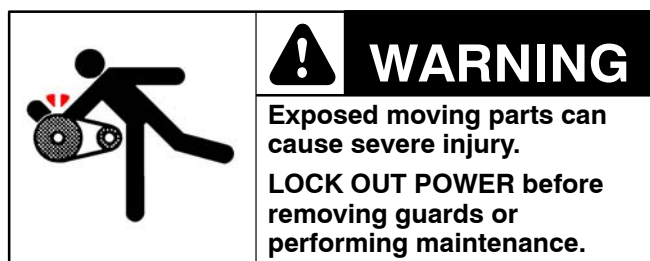
NOTE: Refer to VFD Controller Set-up, Operation & Maintenance Manual.

Preventive Maintenance & Adjustment

Required Tools

- Wrenches (for hexagon head fasteners)
7 mm and 10 mm
- Hex key wrenches (for set screws)
2.5 mm and 3 mm
- Straight edge
- Torque wrench

Timing Belt or Chain Replacement



Replace timing belt or chain following instructions:

- A – Timing Belt Replacement
- B – Timing Chain Replacement

A – Timing Belt Replacement

1. Loosen four (4) screws (AB of Figure 20) and remove cover (P).

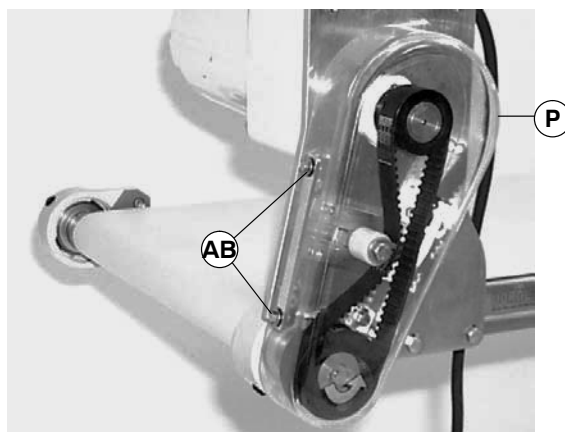


Figure 20

2. Loosen tensioner (Z of Figure 21).

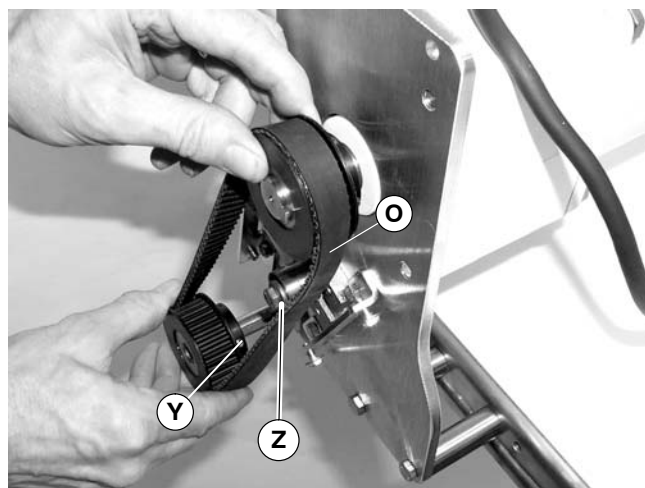


Figure 21

3. Remove timing belt (O).

NOTE: If timing belt does not slide over pulley flange, loosen two driven pulley set screws (Y of Figure 21) and remove pulley with belt. For installation, see steps 6 and 7 on page 6.

4. Install new timing belt.
5. Depending on conveyor belt travel (direction 1 or 2 of Figure 22), locate timing belt tensioner (Z) 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 (AA). Tighten tensioner screw to 92 in-lb (10.4 Nm).

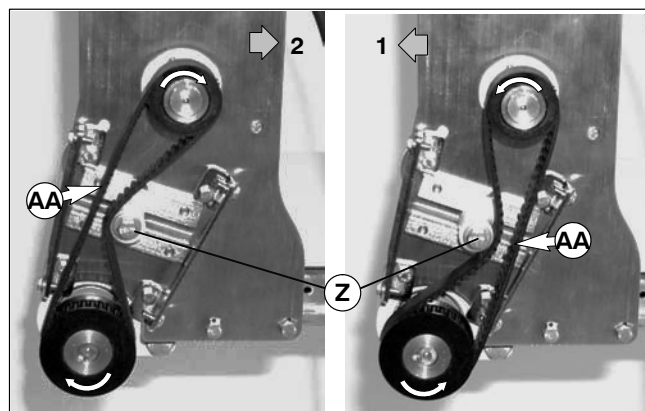


Figure 22

NOTE: Do not over-tighten screws (AB of Figure 20).

6. Install cover (P of Figure 20) and tighten four screws (AB) to 35 in-lb (4 Nm).

Preventive Maintenance & Adjustment

B – Timing Chain Replacement

1. Loosen four screws (AB of Figure 23) and remove cover (P).

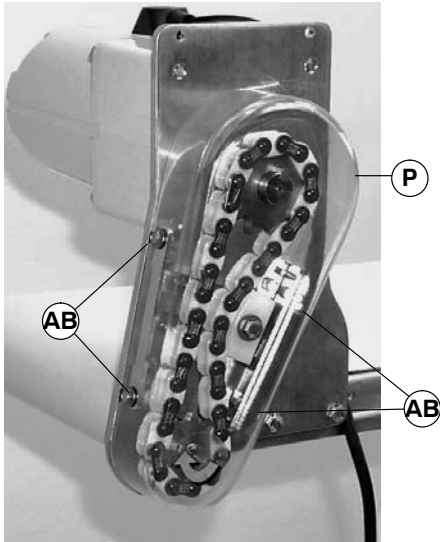


Figure 23

2. Loosen timing chain tensioner screw (AN of Figure 24).

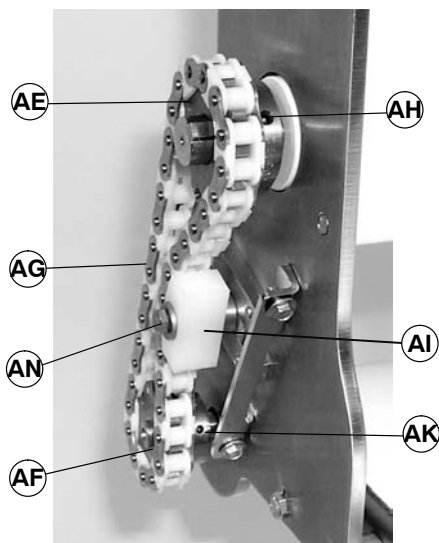


Figure 24

3. Loosen four set screws (AH) and (AK).
4. Remove timing chain (AG) and sprockets (AE and AF) from conveyor input shaft (U) and gearmotor output shaft (AJ). Make sure to retain sprocket keys.

5. Depending on conveyor belt travel (direction 1 or 2 of Figure 25), locate timing chain tensioner (AI) as shown. Do not tighten tensioner screw.

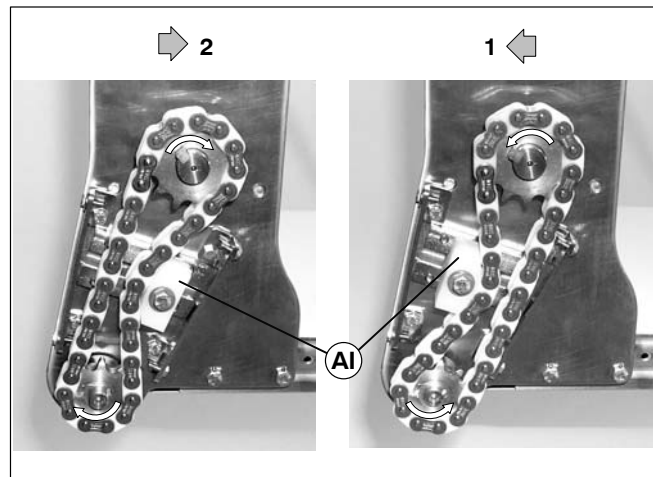


Figure 25

NOTE: Make sure sprocket keys are installed on conveyor input shaft (U) and gearmotor output shaft (AJ).

6. Install new timing chain (AG of Figure 26) over sprockets (AE and AF). Install timing chain and sprockets on conveyor input shaft (U) and gearmotor output shaft (AJ). Do not tighten sprocket set screws.

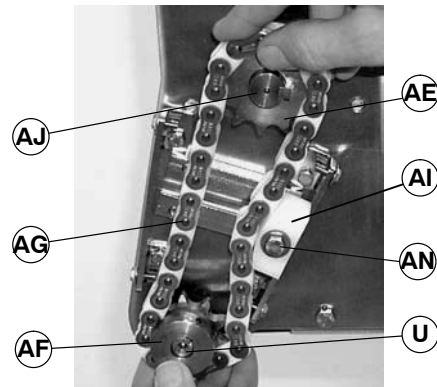


Figure 26

NOTE: Make sure center of timing chain (AG of Figure 24) aligns with center of chain tensioner (AI). If necessary, move drive sprocket (AE) in or out. Tighten set screws (AH). Also, if necessary, move driven sprocket (AF) in or out. Tighten set screws (AK).

Preventive Maintenance & Adjustment


NOTE: Do not over-tension chain (AG). Only tension chain until slack is removed.

7. Slide chain tensioner (AI) to take up chain slack. Tighten chain tensioner screw (AN) to 92 in-lb (10.4 Nm).

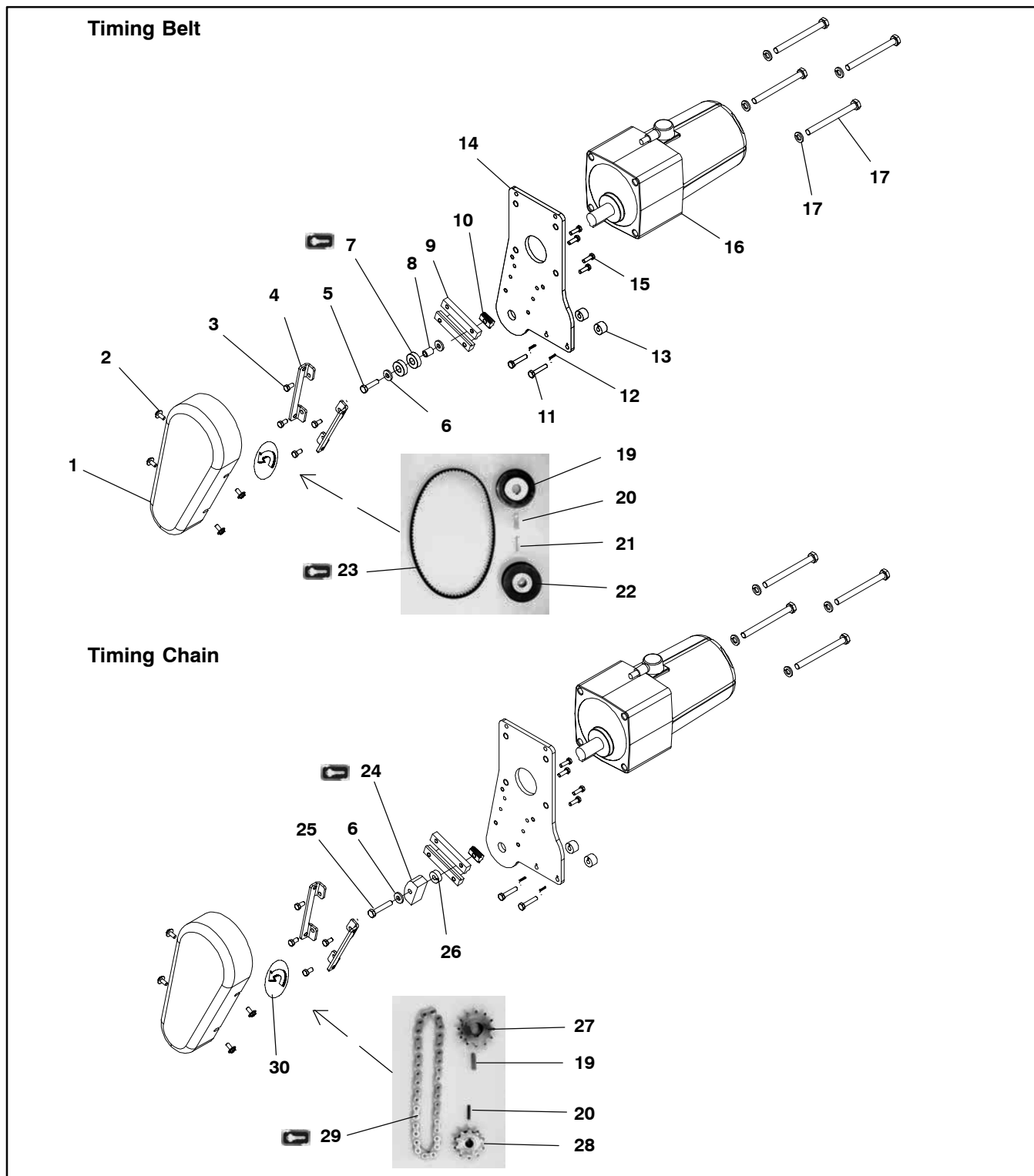
NOTE: Do not over-tighten screws (AB of Figure 23).

8. Install cover (P of Figure 23) and tighten four screws (AB) to 35 in-lb (4 Nm).

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.

7200 Series Drive Mounting Components



Service Parts

Item	Part Number	Description
1	450028P	Cover, Clear
2	807-968	Hex Flange Head Screw M5-.8x10mm
3	960510MSS	Hex Head Cap Screw M5-.8x10mm
4	450181MSS	Cover Mounting Bracket SS
5	960625MSS	Hex Head Cap Screw M6-1.0x25mm
6	911-201	Flat Washer 1/4" SS
7	802-123	Bearing
8	801-116	Nylon Bearing
9	450178MSS	Slide Bar, Tensioner
10	639971MSS	Drop-In T-Bar
11	960630MSS	Hex Head Cap Screw M6-1.0x30mm
12	807-998	Grooved Pin SS
13	456029	Drive Mounting Plate Spacer SS
14	450179MSS	Drive Mounting Plate
15	960516MSS	Hex Head Cap Screw M5-.8x16mm
16	62M009PY411	Gearmotor, 115V Single Phase, 167 RPM
	62M030PY411	Gearmotor, 115V Single Phase, 50 RPM
	62M009PY423	Gearmotor, 230V Three Phase, 167 RPM
	62M030PY423	Gearmotor, 230V Three Phase, 50 RPM
17	911-120	Lock Washer, 5/16"
18	960890MSS	Hex Head Cap Screw M8-1.25x90mm
19	450391M	Drive Pulley, 22 Tooth, 18mm Bore
	450393M	Drive Pulley, 32 Tooth, 18mm Bore
	450394M	Drive Pulley, 44 Tooth, 18mm Bore
	450395M	Drive Pulley, 48 Tooth, 18mm Bore
20	826-318	Square Key, 6x25mm
21	980422MSS	Square Key, 4x22mm
22	450101	Driven Pulley, 19 Tooth, 12mm Bore
	450102	Driven Pulley, 22 Tooth, 12mm Bore
	450103	Driven Pulley, 28 Tooth, 12mm Bore
	450104	Driven Pulley, 32 Tooth, 12mm Bore
23	See Timing Belt Table	Timing Belt, 15mm
24	456048	Chain Tensioner

25	960635MSS	Hex Head Cap Screw M6-1.0x35mm
26	450182SS	Drive Spacer SS
27	811-302	Drive Sprocket, 12 Tooth, 18mm Bore
	811-304	Drive Sprocket, 16 Tooth, 18mm Bore
	811-305	Drive Sprocket, 18 Tooth, 18mm Bore
	811-306	Drive Sprocket, 20 Tooth, 18mm Bore
28	811-296	Driven Sprocket, 10 Tooth, 12mm Bore
29	See Timing Chain Table	Timing Chain, #40
30	450272P	Rotation Label CW
	450273P	Rotation Label CCW

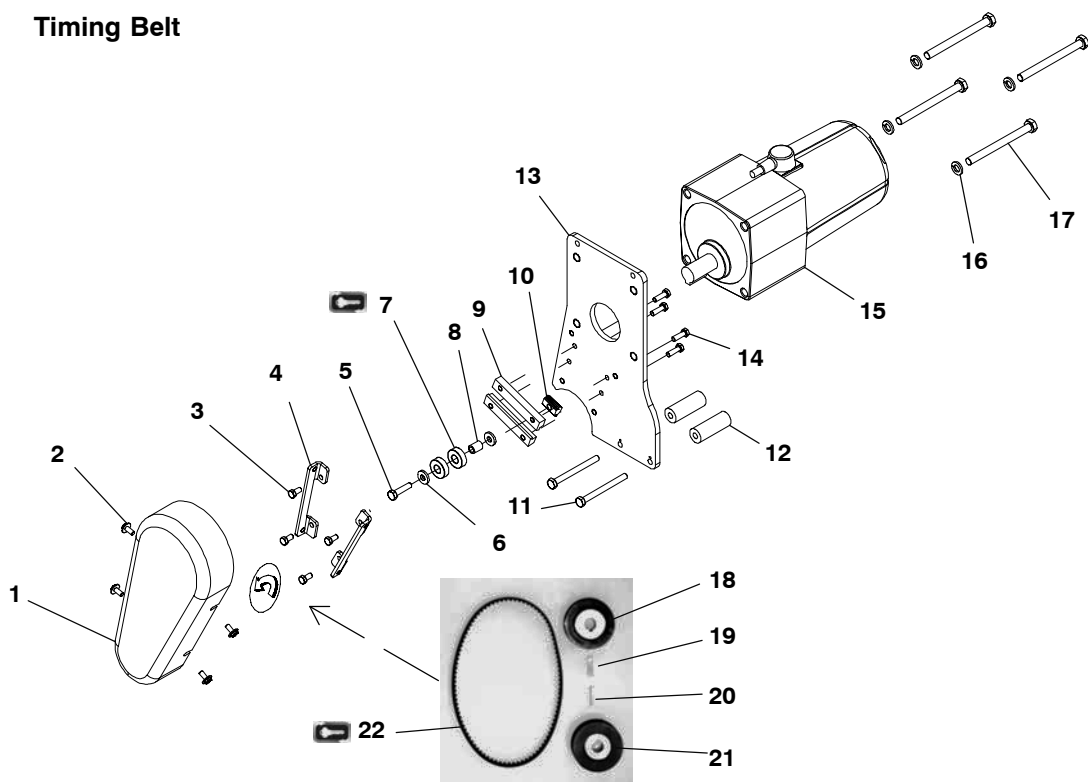
Item 23: Standard Timing Belts			
Pulley Teeth		Belt Length	Part Number
Drive Pulley	Driven Pulley		
22	32	460 mm	814-105
32	22	450 mm	814-104
32	32	475 mm	814-065
44	32	520 mm	814-108
48	19	500 mm	814-101
48	22	500 mm	814-101
48	28	535 mm	814-064

Item 29: Standard Timing Chains			
Sprocket Teeth		Pitch Length	Part Number
Drive Sprocket	Driven Sprocket		
22	32	35	456050
32	22	37	456052
32	32	39	456053
44	32	39	456053

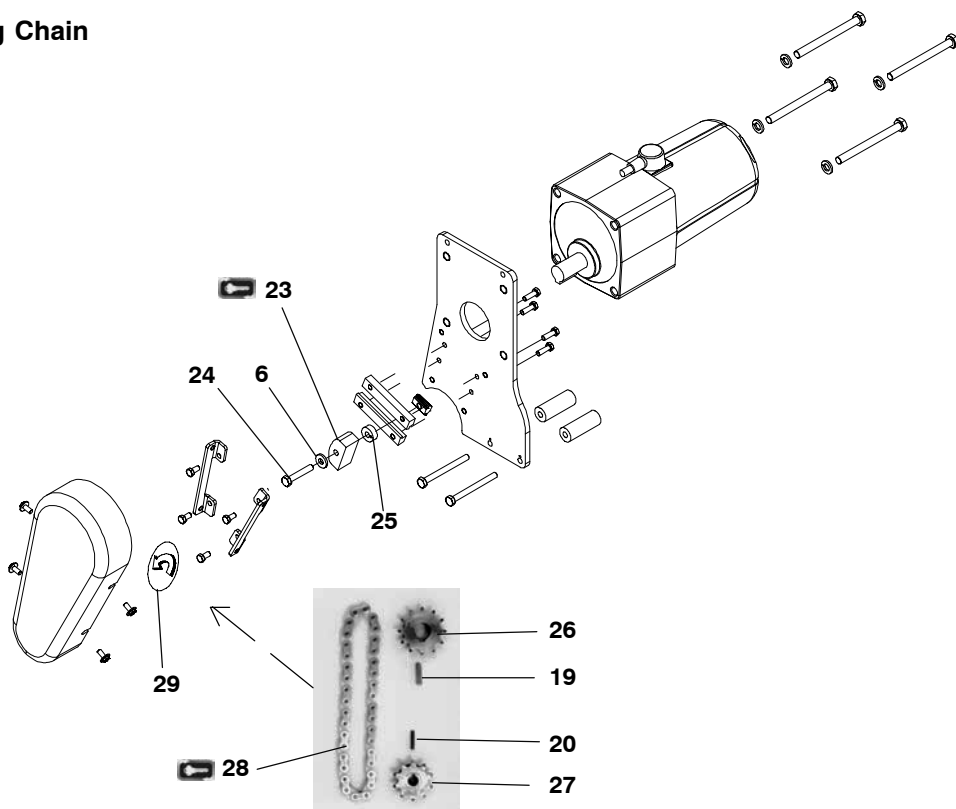
Service Parts

7300 Series Drive Mounting Components

Timing Belt



Timing Chain



Service Parts

Item	Part Number	Description
1	450028P	Cover, Clear
2	807-968	Hex Flange Head Screw M5-.8x10mm
3	960510MSS	Hex Head Cap Screw M5-.8x10mm
4	450181MSS	Cover Mounting Bracket SS
5	960625MSS	Hex Head Cap Screw M6-1.0x25mm
6	911-201	Flat Washer 1/4" SS
7	802-123	Bearing
8	801-116	Nylon Bearing
9	450178MSS	Slide Bar, Tensioner
10	639971MSS	Drop-In T-Bar
11	960665MSS	Hex Head Cap Screw M6-1.0x65mm
12	457850	Drive Mounting Plate Spacer SS
13	701472	Drive Mounting Plate
14	960516MSS	Hex Head Cap Screw M5-.8x16mm
15	62M009PY411	Gearmotor, 115V Single Phase, 167 RPM
	62M030PY411	Gearmotor, 115V Single Phase, 50 RPM
	62M009PY423	Gearmotor, 230V Three Phase, 167 RPM
	62M030PY423	Gearmotor, 230V Three Phase, 50 RPM
16	911-120	Lock Washer, 5/16"
17	960890MSS	Hex Head Cap Screw M8-1.25x90mm
18	450391M	Drive Pulley, 22 Tooth, 18mm Bore
	450393M	Drive Pulley, 32 Tooth, 18mm Bore
	450394M	Drive Pulley, 44 Tooth, 18mm Bore
	450395M	Drive Pulley, 48 Tooth, 18mm Bore
19	826-318	Square Key, 6x25mm
20	980422MSS	Square Key, 4x22mm
21	450101	Driven Pulley, 19 Tooth, 12mm Bore
	450102	Driven Pulley, 22 Tooth, 12mm Bore
	450103	Driven Pulley, 28 Tooth, 12mm Bore
	450104	Driven Pulley, 32 Tooth, 12mm Bore
22	See Timing Belt Table	Timing Belt, 15mm
23	456048	Chain Tensioner
24	960635MSS	Hex Head Cap Screw M6-1.0x35mm
25	450182SS	Drive Spacer SS

26	811-302	Drive Sprocket, 12 Tooth, 18mm Bore
	811-304	Drive Sprocket, 16 Tooth, 18mm Bore
	811-305	Drive Sprocket, 18 Tooth, 18mm Bore
	811-306	Drive Sprocket, 20 Tooth, 18mm Bore
27	811-296	Driven Sprocket, 10 Tooth, 12mm Bore
28	See Timing Chain Table	Timing Chain, #40
29	450272P	Rotation Label CW
	450273P	Rotation Label CCW

Item 22: Standard Timing Belts			
Pulley Teeth		Belt Length	Part Number
Drive Pulley	Driven Pulley		
22	32	460 mm	814-105
32	22	450 mm	814-104
32	32	475 mm	814-065
44	32	520 mm	814-108
48	19	500 mm	814-101
48	22	500 mm	814-101
48	28	535 mm	814-064

Item 28: Standard Timing Chains			
Sprocket Teeth		Pitch Length	Part Number
Drive Sprocket	Driven Sprocket		
22	32	35	456050
32	22	37	456052
32	32	39	456053
44	32	39	456053

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 @ www.dorner.com

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

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DORNER MFG. CORP.

975 Cottonwood Drive, PO Box 20
Hartland, WI 53029-0020 USA

USA

TEL 1-800-397-8664 (USA)

FAX 1-800-369-2440 (USA)

Internet: www.dorner.com

Outside the USA:

TEL 1-262-367-7600

FAX 1-262-367-5827