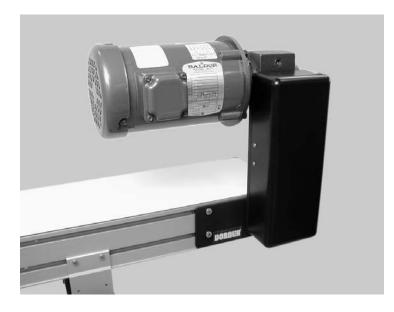


3200 & LPZ Series Top Mount Drive Package for Light & Standard Load 60 Hz Gearmotors

Installation, Maintenance & Parts Manual



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Introduction

IMPORTANT

Some illustrations may show guards removed. DO NOT operate equipment without guards.

Upon receipt of shipment:

- · Compare shipment with packing slip. Contact factory regarding discrepancies.
- · Inspect packages for shipping damage. Contact carrier regarding damage.
- Accessories may be shipped loose. See accessory instruc-٠ tions for installation.

Dorner 3200 Series conveyors are covered by patent numbers 5156260, 5156261, 5203447, 5265714 and patent applications in other countries.

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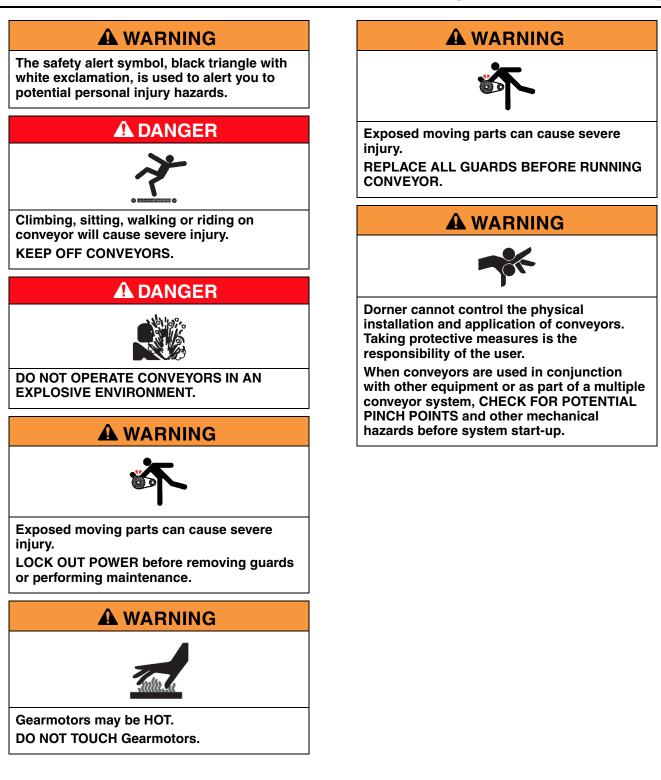
Dorner LPZ Series conveyors are covered by patent numbers 5156260, 5156261, 5203447, 5265714, 5875883 and patent applications in other countries.

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



Product Description

Refer to Figure 1 for typical components.

| А | Conveyor |
|---|-----------------------|
| В | Mounting Bracket |
| С | Gearmotor |
| D | Timing Belt Tensioner |
| Е | Cover |
| F | Timing Belt |
| G | Drive Pulley |
| Н | Driven Pulley |

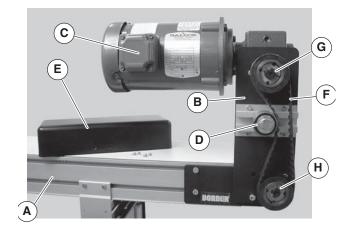


Figure 1

Specifications

Gearmotor Mounting Package Models:

Example:

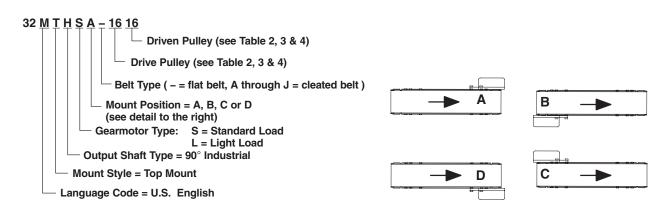


Table 1: Gearmotor Specifications

| | Light Load Gearmotor | | | Standard Load Gearmotor | | | | |
|----------------------------|-----------------------------|-----------------------|-------------|------------------------------|-----------------------|--------------|-------------|--|
| Item | Single- | Three | DC Variable | Single- | Three | VFD Variable | DC Variable | |
| | Phase | Phase | Speed | Phase | Phase | Speed | Speed | |
| Output Power | 0.25 hp (0.19 kw) | | | | 0.5 h | p (0.37 kw) | • | |
| Input Voltage | 115VAC | 208 – 230/ 460 VAC | 130VDC | 115VA C | 208 – 230/ 460 VAC | 230 VAC | 90VDC | |
| Input Frequency | 6 | 0Hz | N/A | 60Hz | | 10 – 60Hz | N/A | |
| Input Current (Amperes) | 5.0 | 1.2/0.6 | 2.2 | 7.4 | 2.1 – 2/1 | 1.6 | 5.0 | |
| Gearmotor Ratios | 5:1, 10:1, 20:1, 40:1, 60:1 | | | 5:1, 10:1, 20:1, 40:1, 60:1 | | | • | |
| Frame Size | NEMA 42CZ | | | NEMA 56C | | | | |
| Motor Type | Tota | lly enclosed, Fa | an cooled | Totally enclosed, Fan cooled | | | | |

Specifications

Table 2: Belt Speeds for Fixed Speed 90° 60 Hz Gearmotors

| Light Load Gearmotors | | | Standard Load Gearmotors | | | | Belt Speed | | Drive | Driven | |
|-----------------------|-----|-------|--------------------------|-----------------|-----|-------|------------|--------|-------|--------|--------|
| Part Number | RPM | In-lb | N-m | Part Number | RPM | In-lb | N-m | Ft/min | M/min | Pulley | Pulley |
| 32M060HL4(vp)FN | 29 | 226 | 25.5 | 32M060HS4(vp)FN | 29 | 226 | 25.5 | 23 | 7.0 | 16 | 16 |
| 32M040HL4(vp)FN | 43 | 237 | 26.8 | 32M040HS4(vp)FN | 43 | 247 | 27.9 | 34 | 10.4 | 16 | 16 |
| 32M040HL4(vp)FN | 43 | 237 | 26.8 | 32M040HS4(vp)FN | 43 | 247 | 27.9 | 52 | 15.8 | 24 | 16 |
| 32M020HL4(vp)FN | 86 | 142 | 16 | 32M020HS4(vp)FN | 86 | 248 | 27.9 | 69 | 21.0 | 16 | 16 |
| 32M020HL4(vp)FN | 86 | 142 | 16 | 32M020HS4(vp)FN | 86 | 248 | 27.9 | 103 | 31.4 | 24 | 16 |
| 32M010HL4(vp)FN | 173 | 78 | 8.8 | 32M010HS4(vp)FN | 173 | 156 | 17.6 | 137 | 41.8 | 16 | 16 |
| 32M010HL4(vp)FN | 173 | 78 | 8.8 | 32M010HS4(vp)FN | 173 | 156 | 17.6 | 172 | 52.4 | 20 | 16 |
| 32M010HL4(vp)FN | 173 | 78 | 8.8 | 32M010HS4(vp)FN | 173 | 156 | 17.6 | 206 | 62.8 | 24 | 16 |
| N/A | N/A | N/A | N/A | 32M005HS4(vp)FN | 345 | 81 | 9.1 | 275 | 83.8 | 16 | 16 |
| N/A | N/A | N/A | N/A | 32M005HS4(vp)FN | 345 | 81 | 9.1 | 343 | 104.5 | 20 | 16 |
| N/A | N/A | N/A | N/A | 32M005HS4(vp)FN | 345 | 81 | 9.1 | 412 | 125.6 | 24 | 16 |

(vp) = voltage and phase

23 = 208 - 230/460 V, 3-phase

11 = 115 V, 1-phase

Table 3: Belt Speeds for Variable Speed 90° DC Gearmotors

| Light Load Gearmotors | | | Standard Load Gearmotors | | | Belt S | peed | Drive | Driven | | |
|-----------------------|-----|-------|--------------------------|---------------|-----|--------|------|----------|----------|--------|--------|
| Part Number | RPM | In-lb | N-m | Part Number | RPM | In-lb | N-m | Ft/min | M/min | Pulley | Pulley |
| 32M060HLD3DEN | 42 | 198 | 22.4 | 32M060HSD9DEN | 42 | 198 | 22.4 | 4.0 - 33 | 1.2 – 10 | 16 | +9- |
| 32M040HLD3DEN | 63 | 163 | 18.4 | 32M040HSD9DEN | 63 | 215 | 24.3 | 6.0 – 50 | 1.8 – 15 | 16 | 16 |
| 32M040HLD3DEN | 63 | 163 | 18.4 | 32M040HSD9DEN | 63 | 215 | 24.3 | 9.0 – 75 | 2.7 – 23 | 24 | 16 |
| 32M020HLD3DEN | 125 | 98 | 11.1 | 32M020HSD9DEN | 125 | 196 | 22.1 | 12 – 100 | 3.6 – 30 | 16 | 16 |
| 32M020HLD3DEN | 125 | 98 | 11.1 | 32M020HSD9DEN | 125 | 196 | 22.1 | 18 – 150 | 5.5 – 45 | 24 | 16 |
| 32M010HLD3DEN | 250 | 54 | 6.1 | 32M010HSD9DEN | 250 | 108 | 12.2 | 24 – 200 | 7.3 – 61 | 16 | 16 |
| 32M010HLD3DEN | 250 | 54 | 6.1 | 32M010HSD9DEN | 250 | 108 | 12.2 | 30 – 250 | 9.1 – 76 | 20 | 16 |
| 32M010HLD3DEN | 250 | 54 | 6.1 | 32M010HSD9DEN | 250 | 108 | 12.2 | 36 - 300 | 11 – 92 | 24 | 16 |

Table 4: Belt Speeds for Fixed Speed 90° VFD Gearmotors

| Standard | Load Gearn | notors | | Belt | Speed | Drive | Driven |
|---------------|------------|--------|------|--------------|--------------|--------|--------|
| Part Number | RPM | In-lb | N-m | Ft/min | M/min | Pulley | Pulley |
| 32M060HS423EN | 29 | 226 | 25.5 | 2.3 – 22.9 | 0.7 – 7.0 | 16 | 16 |
| 32M040HS423EN | 43 | 247 | 27.9 | 3.4 - 34.3 | 1.0 – 10.5 | 16 | 16 |
| 32M040HS423EN | 43 | 247 | 27.9 | 5.1 – 51.5 | 1.6 – 15.7 | 24 | 16 |
| 32M020HS423EN | 86 | 248 | 27.9 | 6.9 - 68.6 | 2.1 – 20.9 | 16 | 16 |
| 32M020HS423EN | 86 | 248 | 27.9 | 10.3 – 103.0 | 3.1 – 31.4 | 24 | 16 |
| 32M010HS423EN | 173 | 156 | 17.6 | 13.7 – 137.3 | 4.2 - 41.9 | 16 | 16 |
| 32M010HS423EN | 173 | 156 | 17.6 | 17.2 – 171.6 | 5.2 – 52.3 | 20 | 16 |
| 32M010HS423EN | 173 | 156 | 17.6 | 20.6 - 205.9 | 6.3 - 62.8 | 24 | 16 |
| 32M005HS423EN | 345 | 81 | 9.1 | 27.5 – 274.6 | 8.4 - 83.7 | 16 | 16 |
| 32M005HS423EN | 345 | 81 | 9.1 | 34.3 - 343.2 | 10.5 – 104.6 | 20 | 16 |
| 32M005HS423EN | 345 | 81 | 9.1 | 41.2 – 411.9 | 12.6 – 125.6 | 24 | 16 |

NOTE

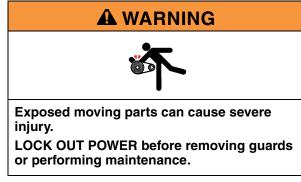
For belt speed other than those listed, contact factory for details.

Installation

Required Tools

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

Mounting



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 (4x)
- P M8 Socket Head Screws (2x)
- Q Timing Belt
- 1. Typical components (Figure 2)

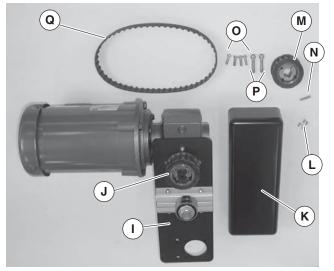


Figure 2

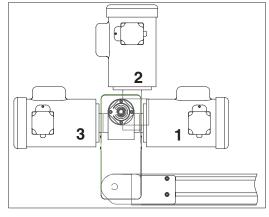


Figure 3

 If required, change gearmotor position by removing four (4) screws (Figure 4, item R). Rotate gearmotor to other position and replace screws (R). Tighten to 110 in-lb (12 Nm).

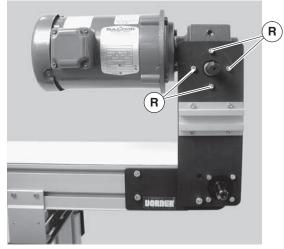


Figure 4

3. Locate drive output shaft (Figure 5, item U). Remove two (2) M8 screws (T) and four (4) M6 screws (S) and discard.

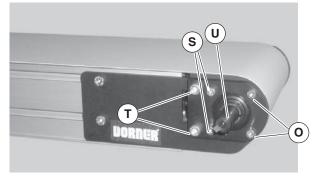


Figure 5

Installation

 Attach mount assembly (Figure 6, item I) with two (2) M8 screws (P) and four (4) M6 screws (O). Tighten M6 screws (O) to 146 in–lbs (16.5 N–m) and M8 screws (P) to 288 in–lbs (32.5 N–m).

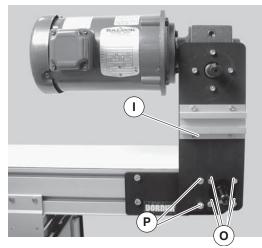
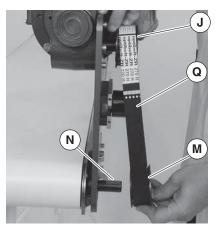


Figure 6



5. Install key (Figure 7, item N).





- 6. Wrap timing belt (Q) around driven pulley (M) and drive pulley (J). Install driven pulley (M) onto conveyor shaft.
- 7. Using a straight edge (Figure 8, item V), align driven pulley (M) with drive pulley (J). Tighten driven pulley taper-lock screws (Figure 9, item W).

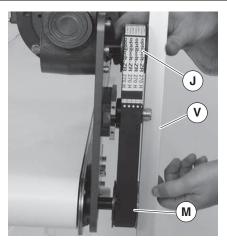


Figure 8

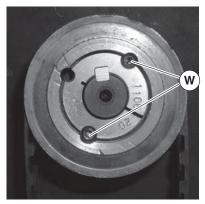


Figure 9

 Depending on conveyor belt travel (direction 1 or 2), locate timing belt tensioner (Figure 10, item X) as shown. Tension timing belt to obtain 1/8" (3 mm) deflection for 6 lb (3 Kg) of force at timing belt midpoint (Y). Tighten tensioner screw to 110 in-lb (12 Nm).

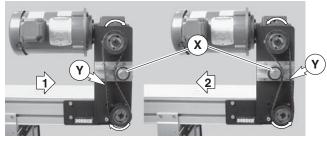
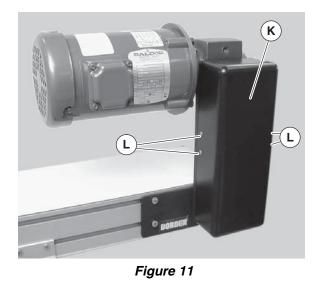


Figure 10

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

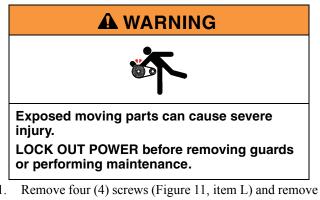


Preventive Maintenance and Adjustment

Required Tools

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

Timing Belt Tensioning



- 1. cover (K).
- Loosen tensioner (Figure 12, item X). 2.

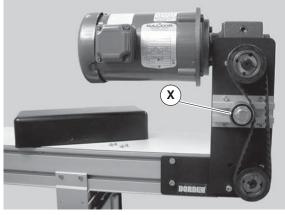


Figure 12

- 3. Depending on conveyor belt travel (direction 1 or 2), locate timing belt tensioner (Figure 10, item X) as shown. Tension timing belt to obtain 1/8" (3 mm) deflection for 6 lb (3 Kg) of force at timing belt midpoint (Y). Tighten tensioner screw to 110 in-lb (12 Nm).
- 4. Install cover (Figure 11, item K) with four (4) screws (L). Tighten screws to 35 in-lb (4 Nm).

Timing Belt Replacement



 or performing maintenance.

 1. Remove four (4) screws (Figure 11, item L) and remove

- cover (K).2. Loosen tensioner (Figure 12, item X).
- 3. Remove timing belt (Figure 13, item Q).

NOTE

If timing belt does not slide over pulley flange, loosen driven pulley taper-lock screws (Figure 13, item W) and remove pulley with belt (Q). For re-installation, see steps 6 and 7 on beginning on page 7.

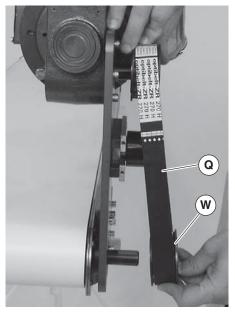
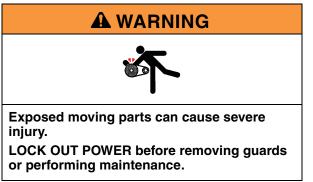


Figure 13

- 4. Install new timing belt.
- Depending on conveyor belt travel (direction 1 or 2), locate timing belt tensioner (Figure 10, item X) as shown. Tension timing belt to obtain 1/8" (3 mm) deflection for 6 lb (3 Kg) of force at timing belt midpoint (Y). Tighten tensioner screw to 110 in-lb (12 Nm).
- 6. Install cover (Figure 11, item K) with four (4) screws (L). Tighten screws to 35 in-lb (4 Nm).

Drive or Driven Pulley Replacement



- 1. Complete steps 1 through 3 of "Timing Belt Replacement" section on page 9.
- 2. Remove taper-lock screws (Figure 14, item W). Insert one (1) of taper lock screws (Figure 14, item W) in remaing hole (Z). Tighten screw (W) until pulley is loose. Remove pulley and taper hub assembly.

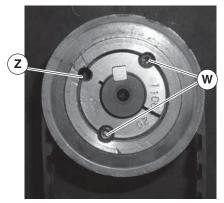


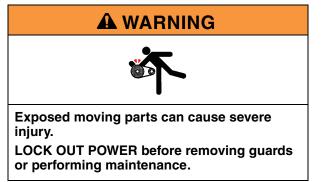
Figure 14

NOTE

If drive pulley (Figure 17, item J) is replaced, wrap timing belt around drive pulley and complete step 3.

3. Complete steps 6 through 9 of "Installation" section on page 7.

Gear Reducer Replacement



- 1. Remove four (4) screws (Figure 11, item L) and remove cover (K).
- 2. Loosen M10 shaft locking screw (Figure 15, item AA).

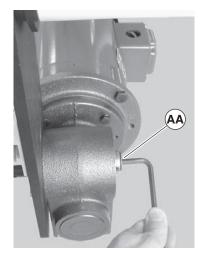


Figure 15

- 3. Loosen tensioner (Figure 12, item X).
- Loosen taper-lock screws (Figure 16, item W) and remove drive pulley: Insert one (1) of taper lock screws (W) in remaing hole (Z). Tighten screw (W) until pulley is loose. Remove pulley (Figure 17, item J), taper hub assembly (AB), and timing belt (Q)

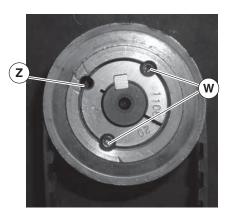


Figure 16

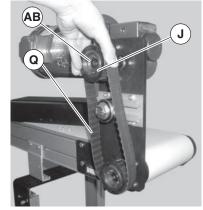


Figure 17

5. Remove four (4) gear reducer mounting screws (Figure 18, item R). Remove gearmotor.

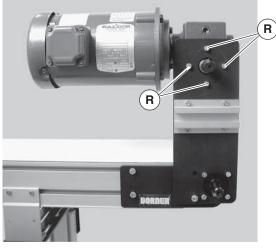


Figure 18

6. Remove four screws (Figure 19, item AC). Detach motor (AD) from gear reducer (AE). Retain motor output shaft key (AF).

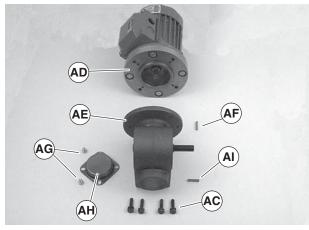


Figure 19

- 7. Remove two (2) screws (AG) and detach output shaft cover (AH).
- 8. Remove M10 shaft locking screw (Figure 20, item AA), remove gear reducer output shaft (AJ) and key (AI).

NOTE

Output shaft (Figure 20, item AJ) is held in Gear Reducer with a tapered press fit. Removal may require use of an arbor press.



Figure 20

 Insert the new shaft with key (Figure 20, item AI) into new gear reducer. Tighten M10 shaft locking screw (AK) to 300 in–lbs (34 N–m).

IMPORTANT

Be extremely careful when coupling motor to gear reducer. Avoid misalignment and forcing the connection causing possible permanent gear reducer seal damage.

- With key (Figure 19, item AF) in keyway, slide motor (AD) and gear reducer (AE) together. Install screws (AC) and tighten.
- 11. Install gearmotor to mounting bracket and tighten screws (Figure 18, item R) to 110 in-lb (12 Nm).

NOTE

Drive pulley (Figure 17, item J) is removed. Wrap timing belt around drive pulley and complete step 12.

12. Complete steps 6 through 9 of "Installation" section on page 7.

Motor Replacement



a. Loosen terminal box screws (Figure 21, item AL) and remove cover (AM).

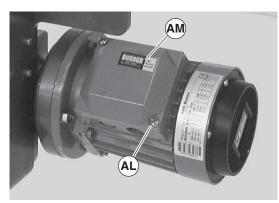


Figure 21

- b. Record wire colors on terminals 1, 2 and 3. Loosen wire nuts and remove wires 1, 2 and 3.
- c. Loosen cord grip and remove cord.
- 3. For DC variable speed motor, unplug motor cord at disconnect (Figure 22, item AN).

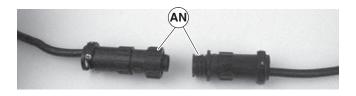


Figure 22

Remove four (4) screws (Figure 23, item AC). Detach 4. motor (AD) from gear reducer (AE). Retain motor output shaft key (AF).

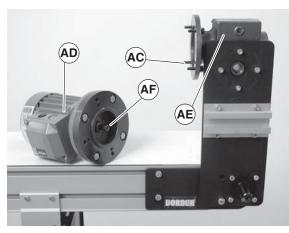


Figure 23

IMPORTANT

Be extremely careful when coupling motor to gear reducer. Avoid misalignment and forcing the connection causing possible permanent gear reducer seal damage.

5. With key (Figure 24, item AF) in keyway, slide motor (AD) and gear reducer together. Install screws (AC) and tighten.

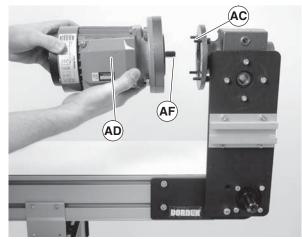


Figure 24

- Replace wiring: 6.
- For a single phase motor, reverse step 1 on page 11.
- For a three phase or VFD variable speed motor, reverse step 2 on page 11.
- For a DC variable speed motor, reverse step 3 on page 11.

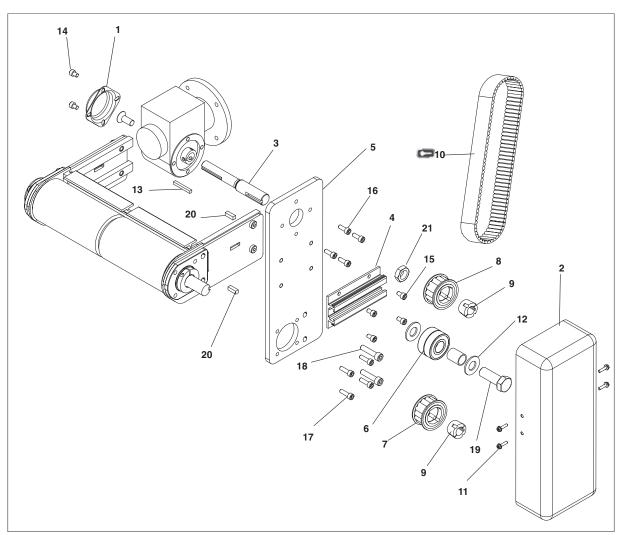
Notes

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.

3200 Series Conveyors Top Mount Drive Package for Standard Load 90° **Industrial Gearmotors**



| Item | Part Number | Description | Item | Part Number | Description |
|------|-------------|---|------|-------------|---------------------------------------|
| 1 | 300139 | Bearing Shaft Cover | 8 | 811–126 | Drive Pulley, 16 Tooth, Tap |
| 2 | 300871 | Drive Cover | | | TL1108 |
| 3 | 301146 | Grove Gearhead Output Shaft | | 811–127 | Drive Pulley, 18 Tooth, Tap TL1210 |
| 4 | 301076 | Drive Tensioner Slide | | | |
| 5 | 301151 | Mounting Plate | | 811–135 | Drive Pulley, 20 Tooth, Tap TL1210 |
| 6 | 301153 | Tensioner Bearing Assy |] | 811-136 | Drive Pulley, 22 Tooth, Tap |
| 7 | 811–123 | Driven Pulley, 14 Tooth, Taper Lock | | 011-100 | TL1610 |
| | | TL1108 | | 811-137 | Drive Pulley, 24 Tooth, Tap |
| | 811–126 | Driven Pulley, 16 Tooth, Taper Lock TL1108 | | | TL1610 |

16 Tooth, Taper Lock

18 Tooth, Taper Lock

20 Tooth, Taper Lock

22 Tooth, Taper Lock

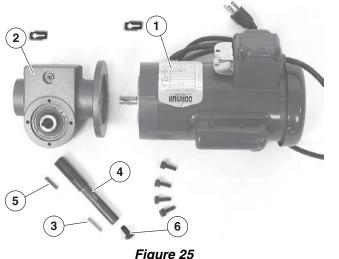
24 Tooth, Taper Lock

Service Parts

| Item | Part Number | Description |
|------|-------------|----------------------------------|
| 9 | 811–288 | Taper Lock Bushing, 20MM, TL1108 |
| | 811–289 | Taper Lock Bushing, 20MM, TL1210 |
| | 811–290 | Taper Lock Bushing, 20MM, TL1610 |
| 10 | 814–059 | Timing Belt, 1.0" W x 27.0" L |
| | 814–060 | Timing Belt, 1.0" W x 28.0" L |
| 11 | 910412M | Button Head Screw M4 x 12mm |
| 12 | 911–013 | Flat Washer |
| 13 | 912-084 | Square Key |

| Item | Part Number | Description |
|------|-------------|------------------------------|
| 14 | 920608M | Socket Head Screw M6 x 8mm |
| 15 | 920610M | Socket Head Screw M6 x 10mm |
| 16 | 920616M | Socket Head Screw M6 x 16mm |
| 17 | 920620M | Socket Head Screw M6 x 20mm |
| 18 | 920835M | Socket Head Screw M8 x 35mm |
| 19 | 961645M | Socket Head Screw M16 x 45mm |
| 20 | 980632M | Square Key |
| 21 | 991610M | Hex Jam Nut M16 |

3200 Standard Load 90° Industrial Gearmotors



| Figure | 25 |
|--------|----|
| iguic | 20 |

| Item | Part Number | Description |
|------|-------------|--|
| | 62MS411FN | Motor, 0.25hp (0.19Kw), 115/230 Volts, 60 Hz, 1-Phase |
| | 62MS411FR | Motor, 0.25hp (0.19Kw), 115/230 Volts, 60 Hz, 1-Phase with Reversing |
| | 62MS423 | Motor, 0.25hp (0.19Kw), 208–230/ 460 Volts, 60 Hz, 3-Phase |
| | 62MSD3DEN | Motor, 0.25hp (0.19Kw), 130 VDC |
| | 62MH411FN | Motor, 0.5hp (0.37Kw), 115/230 Volts, 60Hz, 1–Phase |
| | 62MH423 | Motor, 0.5hp (0.37Kw) 208–230/460 Volts, 60Hz, 3 Phase |
| | 62MHD9DEN | Motor, 0.5hp (0.37Kw), 90VDC |
| | 32MS423EN | Motor, 0.5hp (0.37Kw), 230 Volts, 3 Phase Inverter Duty |
| 2 | 32M005HL | Gear Reducer, 5:1, NEMA 42CZ |
| | 32M010HL | Gear Reducer, 10:1, NEMA 42CZ |
| | 32M020HL | Gear Reducer, 20:1, NEMA 42CZ |
| | 32M040HL | Gear Reducer, 40:1, NEMA 42CZ |
| | 32M060HL | Gear Reducer, 60:1, NEMA 42CZ |
| | 32M005HS | Gear Reducer, 5:1, NEMA 56C |
| | 32M010HS | Gear Reducer, 10:1, NEMA 56C |
| | 32M020HS | Gear Reducer, 20:1, NEMA 56C |
| | 32M040HS | Gear Reducer, 40:1, NEMA 56C |
| | 32M060HS | Gear Reducer, 60:1, NEMA 56C |
| 3 | 980636M | Pulley Key, 6 mm x 18 mm (2x) |
| 4 | 301146 | Gear Reducer Shaft |
| 5 | 912–084 | Gear Reducer Key, Square, 0.188" x 1.5" L |
| 6 | 931025M | Flat Head Screw M10 x 25mm |

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. A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization number for reference. There will be a return charge on all new undamaged items returned for credit where Dorner was not at fault. Dorner is not responsible for return freight on such items. Conveyors and conveyor accessories Standard catalog conveyors 30% MPB Series, cleated and specialty belt conveyors 50% 7400 & 7600 Series conveyors non-returnable items Engineered special products case by case Drives and accessories 30% Sanitary stand supports non-returnable items Parts Standard stock parts 30% MPB, cleated and specialty belts non-returnable items

Returns will not be accepted after 60 days from original invoice date.

The return charge covers inspection, cleaning, disassembly, disposal and reissuing of components to inventory.

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

Dorner has representatives throughout the world. Contact Dorner for the name of your local representative. Our Technical Sales, Catalog Sales and Service Teams 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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Printed in U.S.A.