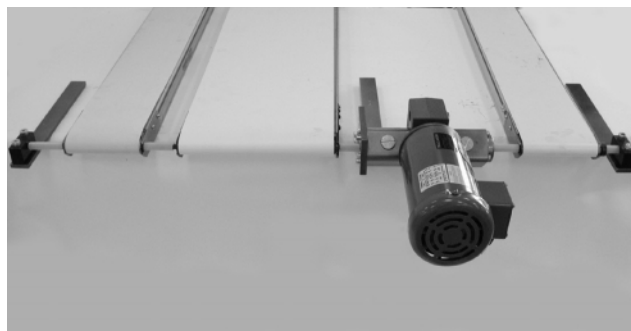
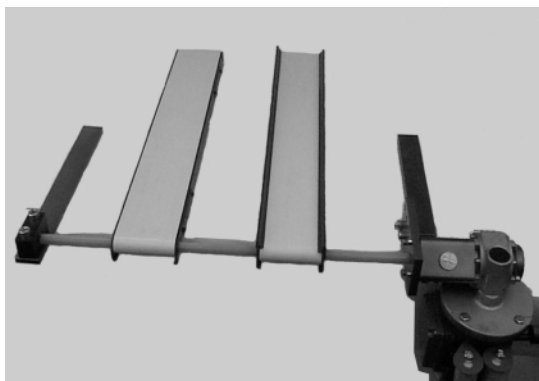


**63U01 and 63U03  
2100, 4100, 6100 Series  
Gang Drive Mounting Packages for Standard  
Load 90° Industrial 50 Hz Gearmotors**





# Table of Contents



|   |   |   |    |
|---|---|---|----|
| Warnings – General Safety . . . . .         | 2 | Preventive Maintenance & Adjustment . . . . . | 9  |
| Introduction . . . . .                      | 2 | Required Tools . . . . .                      | 9  |
| Product Description . . . . .               | 3 | Gear Reducer Replacement . . . . .            | 9  |
| Specifications . . . . .                    | 3 | 63U01 Gang Drive Mounting . . . . .           | 9  |
| Installation . . . . .                      | 4 | 63U03 Dual Output Gang Drive Mounting . .     | 11 |
| Required Tools . . . . .                    | 4 | Motor Replacement . . . . .                   | 13 |
| Mounting . . . . .                          | 4 | Service Parts . . . . .                       | 14 |
| 63U01 Gang Drive Mounting . . . . .         | 4 | 63U01 Gang Drive Package . . . . .            | 14 |
| 63U03 Dual Output Gang Drive Mounting . . . | 6 | 63U03 Dual Output Gang Drive Package . . . .  | 15 |
|   |   | Return Policy . . . . .                       | 16 |

## Warnings – General Safety



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

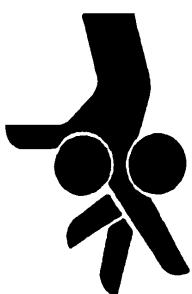

|   |   |                |
|---|---|----------------|
|  |  | <b>WARNING</b> |
| Gearmotors may be HOT.<br>DO NOT TOUCH Gearmotors.                                |   |                |

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

|  |   |                |
|--|---|----------------|
|             |  | <b>WARNING</b> |
| Exposed moving parts can cause severe injury.<br>REPLACE ALL GUARDS BEFORE RUNNING CONVEYOR. |   |                |

|   |   |               |
|---|---|---------------|
|  |  | <b>DANGER</b> |
| Do NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.                             |   |               |

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

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

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

Dorner 6100 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.

# Product Description

Refer to Figure 1 for typical components.

| Typical Components |                  |
|--------------------|------------------|
| A                  | Conveyor         |
| B                  | Mounting Bracket |
| C                  | Gearmotor        |
| D                  | Coupling         |
| E                  | Inspection Plug  |

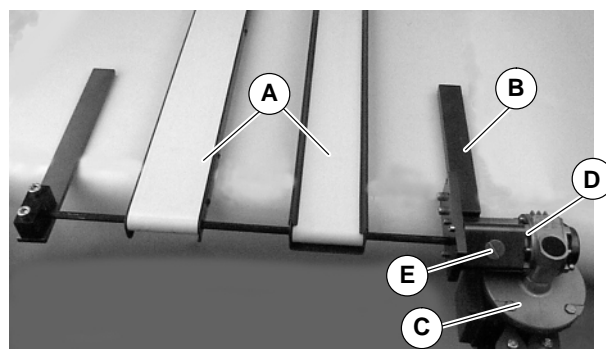


Figure 1

## Specifications

### Gang Drive Mounting Package Models:

63U01 = Gang Drive Mounting Package

63U03 = Dual Output Gang Drive Mounting Package

Table 1: Standard Load Gearmotor Specifications

|                   | Single Phase                 | Three Phase        | VFD Variable Speed |
|-------------------|------------------------------|--------------------|--------------------|
| Output Power      | 0.18 Kw                      |                    |                    |
| Input Voltage     | 230 Volts A.C.               | 230/400 Volts A.C. | 230 Volts D.C.     |
| Input Frequency   | 50 Hz                        |                    | 25 – 63 Hz         |
| Input Current     | 1.6 Amperes                  | 1.4 / 0.8 Amperes  | 1.4 Amperes        |
| Protection Rating | IP 55                        |                    |                    |
| Gearmotor Ratios  | 5:1, 10:1, 20:1, 40:1, 60:1  |                    |                    |
| Frame Size        | IEC 63 B5                    |                    |                    |
| Motor Type        | Totally Enclosed, Fan-cooled |                    |                    |

Table 2: Belt Speeds for Standard Load Fixed Speed 90° 50 Hz Gearmotors

| Gearmotors      |     |      | Belt Speed<br>M/min |
|-----------------|-----|------|---------------------|
| Part Number     | RPM | N-m  |                     |
| 62Z060HS4(vp)FN | 23  | 26.4 | 2.0                 |
| 62Z040HS4(vp)FN | 35  | 28.9 | 3.0                 |
| 62Z020HS4(vp)FN | 70  | 19.4 | 6.1                 |
| 62Z010HS4(vp)FN | 140 | 10.7 | 12.2                |
| 62Z005HS4(vp)FN | 280 | 5.6  | 24.4                |

(vp) = voltage and phase

21 = 230 V, 1-phase

23 = 230 V, 3-phase

43 = 400 V, 3-phase

# Specifications

**Table 3: Belt Speeds for Standard Load Variable Speed 90° 50 Hz Gearmotors**

| Gearmotors    |     |      | Belt Speed<br>M/min |
|---------------|-----|------|---------------------|
| Part Number   | RPM | N-m  |                     |
| 62Z060HS423EN | 23  | 26.4 | 1.0 – 2.6           |
| 62Z040HS423EN | 35  | 28.9 | 1.5 – 3.8           |
| 62Z020HS423EN | 70  | 19.4 | 3.0 – 7.7           |
| 62Z010HS423EN | 140 | 10.7 | 6.1 – 15            |
| 62Z005HS423EN | 280 | 5.6  | 12.2 – 30           |

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


## Installation

### Required Tools

- Hex key wrenches:  
3 mm, 4 mm, 5 mm, 6mm, 8 mm
- Large flat-blade screwdriver
- Torque wrench

### Mounting

#### 63U01 Gang Drive Package



**! WARNING**

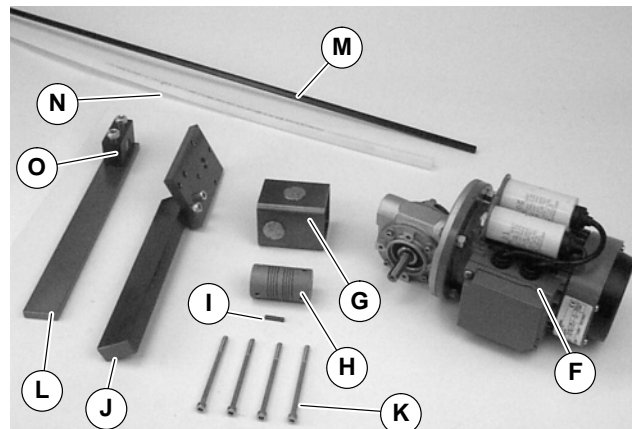
Exposed moving parts can cause severe injury.

**LOCK OUT POWER** before removing guards or performing maintenance.

#### Illustration References

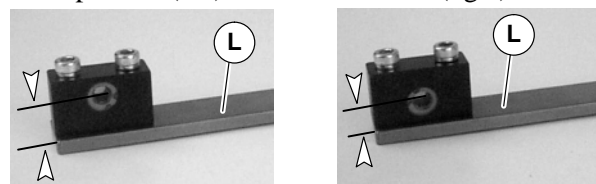
- |   |  |
|---|--|
| F | Gearmotor Assembly                                   |
| G | Guard Tube (with inspection plugs installed)         |
| H | Flex Coupling (807-996)                              |
| I | Square Key, 5 mm (980540M)                           |
| J | Gearmotor Support Assembly                           |
| K | Guard Mounting Screws, (4x) M6 x 100 mm, Socket Head |
| L | Bearing Support Assembly                             |
| M | Hexagon Shaft - 1220 mm (23-24)                      |
| N | Shaft Cover - 1524 mm (807-967)                      |
| O | Bearing Block (450092)                               |

#### 1. Gather components (Figure 2)



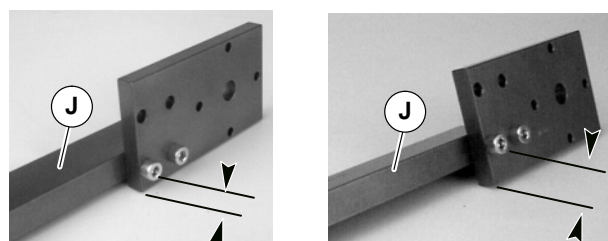
**Figure 2**

#### 2. Check bearing support assembly (L of Figure 3) setup: 2100 (left) and 4100 or 6100 (right).



**Figure 3**

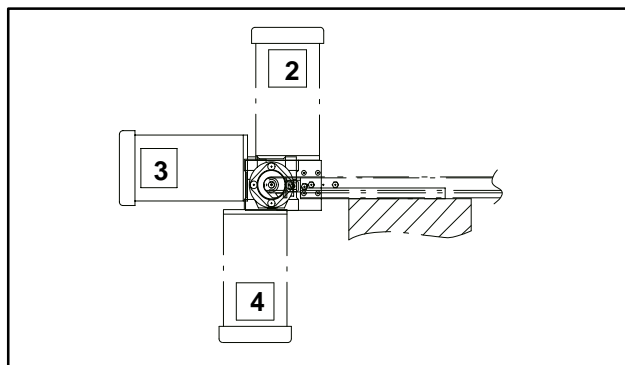
#### 3. Check gearmotor support assembly (J of Figure 4) setup: 2100 (left) and 4100 or 6100 (right).



**Figure 4**

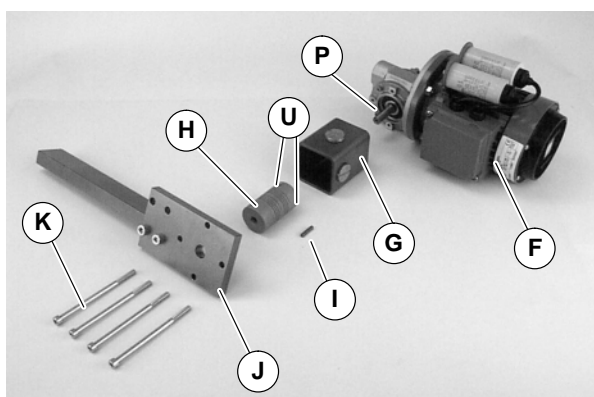


**NOTE:** Gearmotor may be operated in positions 1, 2, 3 or 4 (Figure 5). Position 4 may reduce gear reducer oil seal life.



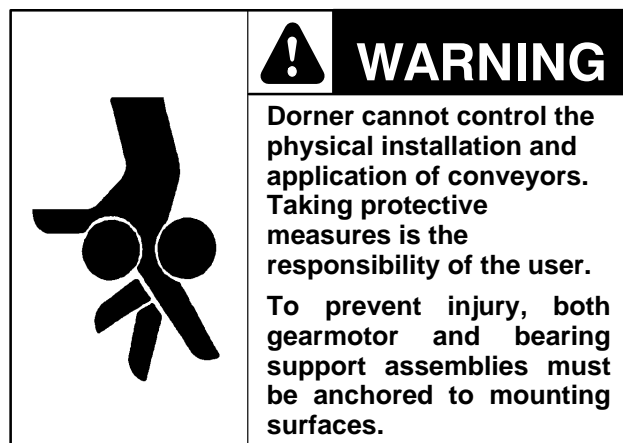
**Figure 5**

4. Attach flex coupling (H of Figure 6) to gearmotor shaft. Tighten set screws (U).



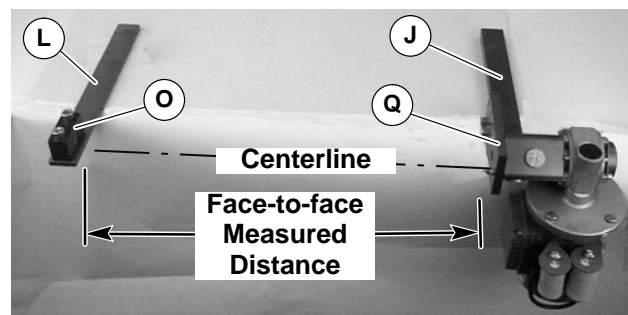
**Figure 6**

5. Install key (I of Figure 6) in gear reducer shaft (P).
6. Attach guard tube (G) and gearmotor support assembly (J) to gearmotor assembly (F) with screws (K). Tighten screws (K) to 5.6 Nm.



**NOTE:** Mounting holes are not provided. Ensure that gearmotor assembly (J of Figure 7) and bearing support assembly (L) are parallel and center-line of coupling matches center-line of bearing block (O).

7. Attach gearmotor assembly (J of Figure 7) and bearing support assembly (L) to mounting surface.



**Figure 7**

8. Measure distance between motor mounting plate (Q) and bearing block (O).
9. Cut hex shaft (M of Figure 2) to measured distance plus 54 mm.
10. Align conveyors between gearmotor support assembly (J of Figure 8) and bearing support assembly (L).

**NOTE:** Do not secure the conveyors (A of Figure 8) to mounting surface.

# Installation

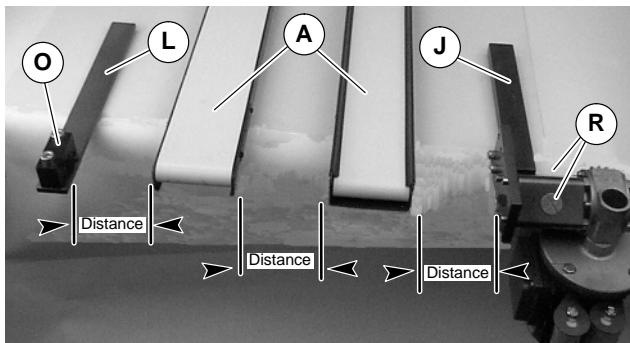


Figure 8

|  |  |                |
|--|--|----------------|
|  |  | <b>WARNING</b> |
|  | <p>Shaft covers must be installed to help prevent injury from accidental contact with rotating hex shaft. Purchase additional shaft cover (807-967) when reconfiguring conveyor setup.</p> |                |

11. Cut shaft cover (N of Figure 2) into pieces to match each distance (Figure 8) minus 1.5 mm.
12. Remove inspection plugs (R of Figure 8).
13. Remove screws (T of Figure 9) and remove bearing block (O).
14. Slide hex shaft through conveyors (A of Figure 9) and shaft cover pieces (N) and into flex coupling.

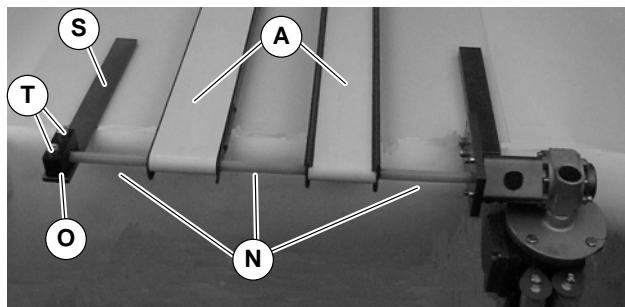


Figure 9

15. Attach bearing block (O of Figure 9) to bearing support bar (S) with screws (T). Tighten screws (T) to 45.5Nm.

16. Tighten coupling set screws (U of Figure 10). Replace inspection plugs (R).

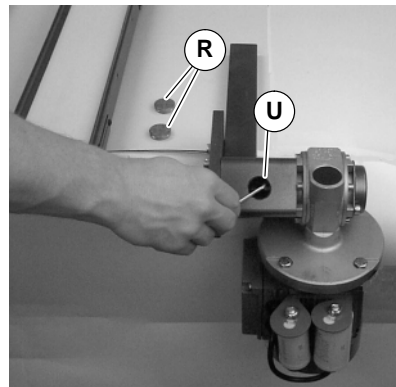


Figure 10

## 63U03 Dual Output Gang Drive Package

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

### Illustration References

|   |  |
|---|--|
| F | Gearmotor Assembly                                   |
| G | Guard Tube (2x) (with inspection plugs installed)    |
| H | Flex Coupling (2x) (807-996)                         |
| I | Square Key, 5 mm (2x) (980540M)                      |
| J | Gearmotor Support Assembly                           |
| K | Guard Mounting Screws, (4x) M6 x 100 mm, Socket Head |
| L | Bearing Support Assembly (2x)                        |
| M | Hexagon Shaft - 1219mm (2x) (23-24)                  |
| N | Shaft Cover - 2438mm (807-967)                       |
| O | Bearing Block (2x) (450092)                          |
| V | Shaft Cover  |
| W | Socket Head Screw M6 x 90mm (4x)                     |

1. Gather components (Figure 11).



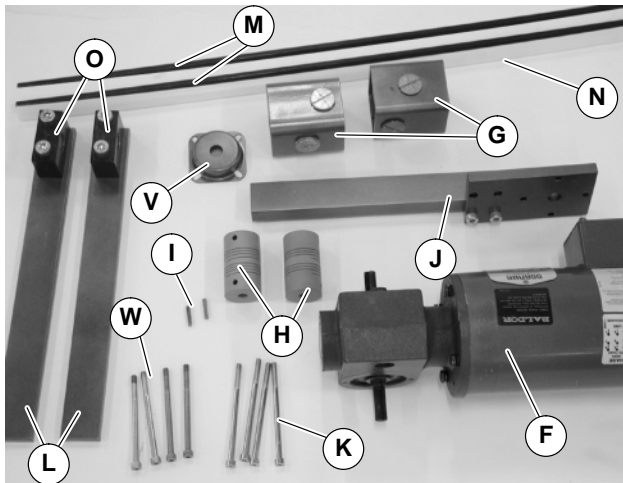


Figure 11

2. Check bearing support assembly (L of Figure 12) setup: 2100 (left) and 4100 or 6100 (right).

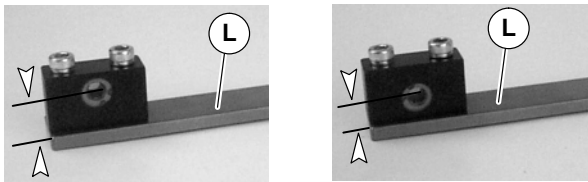


Figure 12

3. Check gearmotor support assembly (J of Figure 13) setup: 2100 (left) and 4100 or 6100 (right).

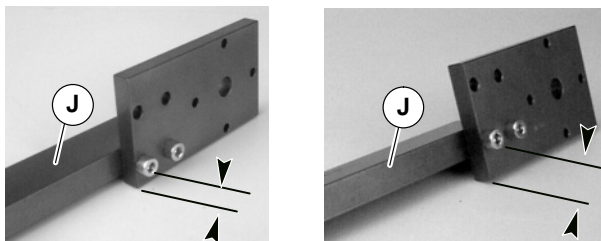
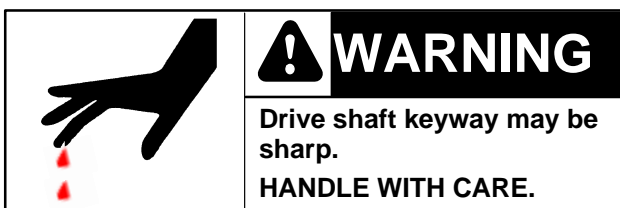


Figure 13



4. Install key (I of Figure 14) in gear reducer shaft (P).
5. Attach flex couplings (H of Figure 14) to gearmotor shaft (P). Tighten set screws (U).

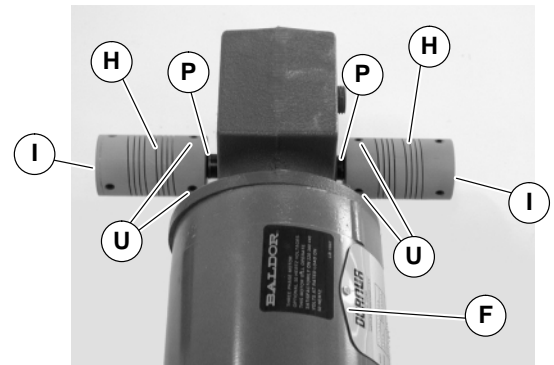


Figure 14

**NOTE:** Gearmotor may be operated in positions 1, 2, 3 or 4 (Figure 15). Position 4 may reduce gear reducer oil seal life.

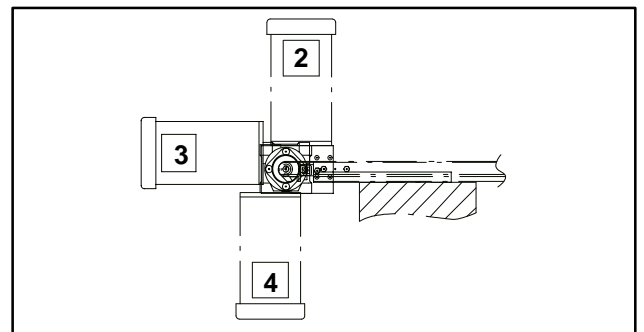


Figure 15

6. Attach guard tube (G of Figure 16) and gearmotor support assembly (J) to gearmotor assembly (F) with screws (K). Tighten screws (K) to 5.6 Nm.

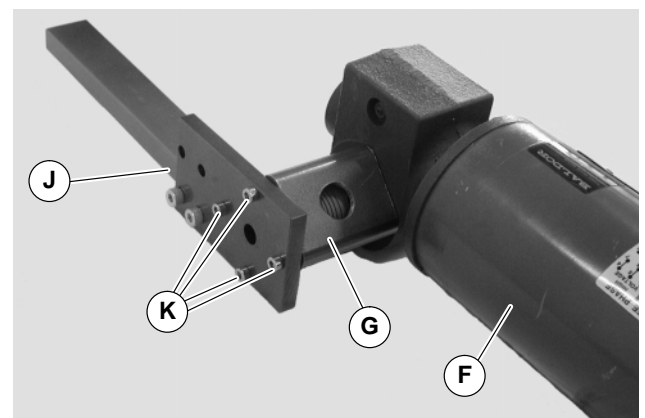


Figure 16

# Installation

- Attach shaft cover (V of Figure 17) and guard tube (G) with screws (W). Tighten screws (W) to 5.6Nm.

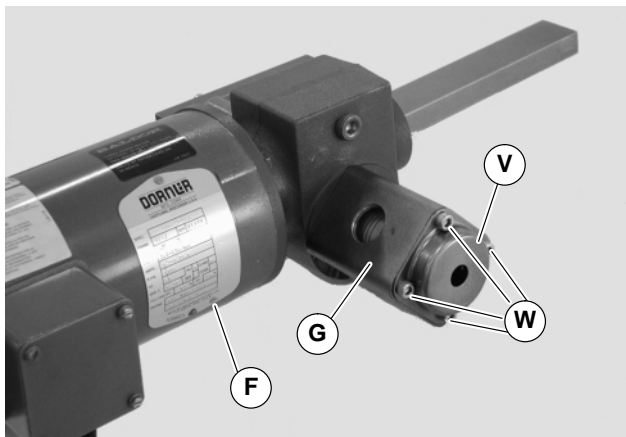



Figure 17



**WARNING**

Donrer cannot control the physical installation and application of conveyors. Taking protective measures is the responsibility of the user.

To prevent injury, both gearmotor and bearing support assemblies must be anchored to mounting surfaces.

**NOTE:** Mounting holes are not provided. Ensure that gearmotor assembly (J of Figure 18) and bearing support assembly (L) are parallel and center-line of coupling matches center-line of bearing block (O).

- Attach gearmotor assembly (J of Figure 18) and bearing support assemblies (L) to mounting surface.

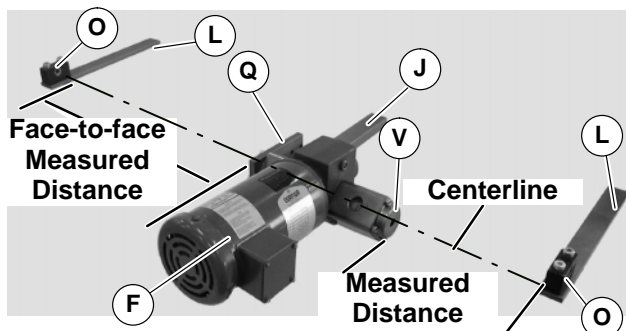


Figure 18

- Measure distances between motor mounting plate (Q) and bearing block (O) and from shaft cover (V) to bearing block (O).
- Cut hex shafts (M of Figure 11) to measured distances (Figure 18) plus 54 mm on both sides of gearmotor assembly.
- Align conveyors between gearmotor support assembly (J of Figure 19) and bearing support assembly (L).

**NOTE:** Do not secure the conveyors (A of Figure 19) to the mounting surface.

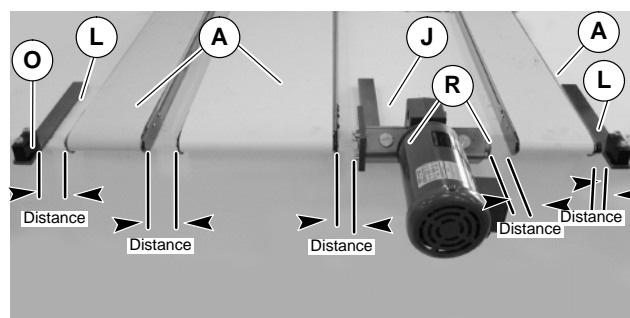


Figure 19



**WARNING**

Shaft covers must be installed to help prevent injury from accidental contact with rotating hex shaft.

Purchase additional shaft cover (807-967) when reconfiguring conveyor setup.

- Cut shaft cover (N of Figure 21) into pieces to match each distance (Figure 19) minus 1.5mm.
- Remove screws (T of Figure 20) and remove bearing blocks (O).

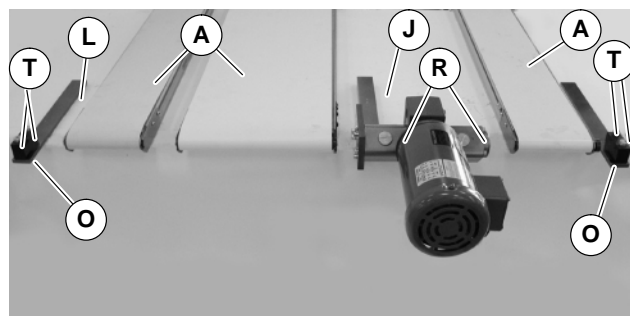


Figure 20

- Remove four (4) inspection plugs (R of Figure 20).



15. Slide hex shafts (M of Figure 21) through conveyors and shaft cover pieces (N) on both sides of gearmotor assembly (F) and into flex couplings.

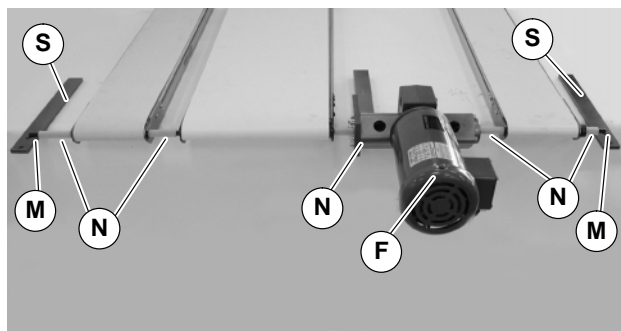


Figure 21

16. Attach bearing blocks (O of Figure 22) to bearing support bars (S) with screws (T). Tighten screws (T) to 45.5Nm.

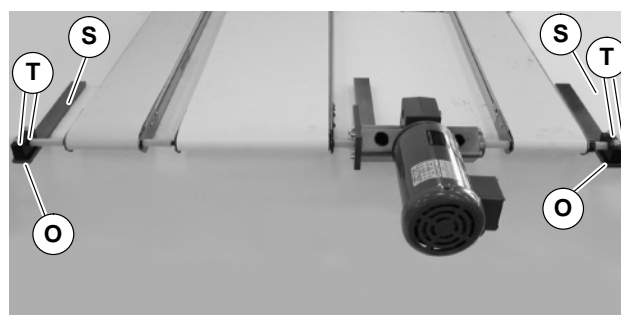


Figure 22

17. Tighten coupling hex shaft set screws (U of Figure 23). Replace inspection plugs (R).

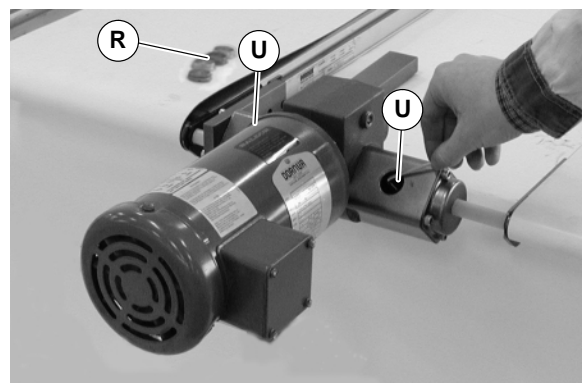


Figure 23

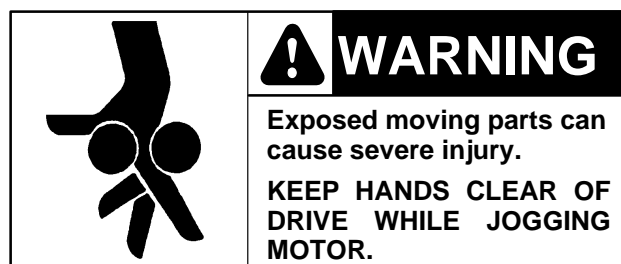
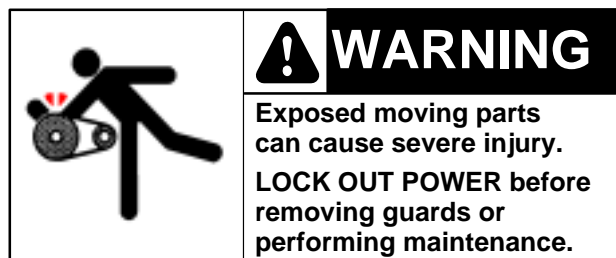
## Preventive Maintenance and Adjustment

### Required Tools

- Hex key wrenches:  
2.5mm, 3mm, 5mm, 6mm, 8mm
- Large flat-blade screwdriver
- Adjustable wrench (for hexagon head screws)
- Torque wrench

### Gear Reducer Replacement

#### 63U01 Gang Drive Package



1. Remove inspection plugs (R of Figure 24). Jog motor and rotate coupling to align set screws (U) with access hole (Z). Loosen set screw (U). Repeat for second set screw.

# Preventive Maintenance and Adjustment

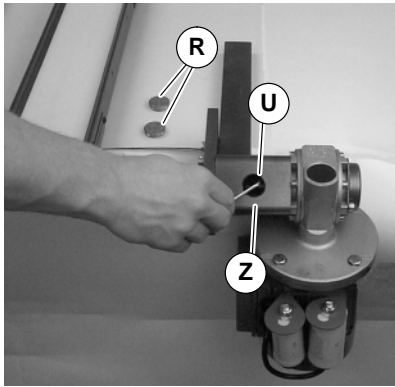


Figure 24

2. Remove four (4) screws (K of Figure 25) and remove gear motor assembly (F).

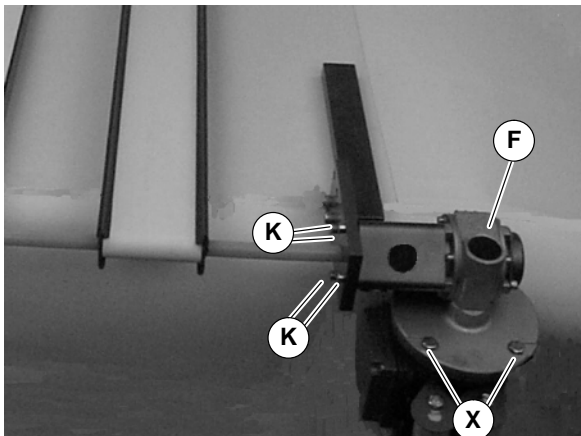


Figure 25

3. Remove four screws (X of Figure 26). Detach motor (AA) from gear reducer (AB). Retain shaft key (Y).

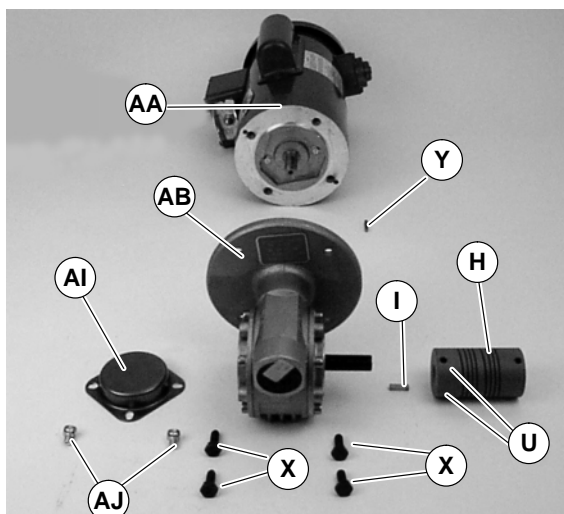


Figure 26

4. Remove two (2) screws (AJ) and detach output shaft cover (AI).

5. Remove gear reducer output shaft key (I).
6. Loosen six (6) set screws (AC of Figure 27). Remove drive shaft (P) and key (AD).

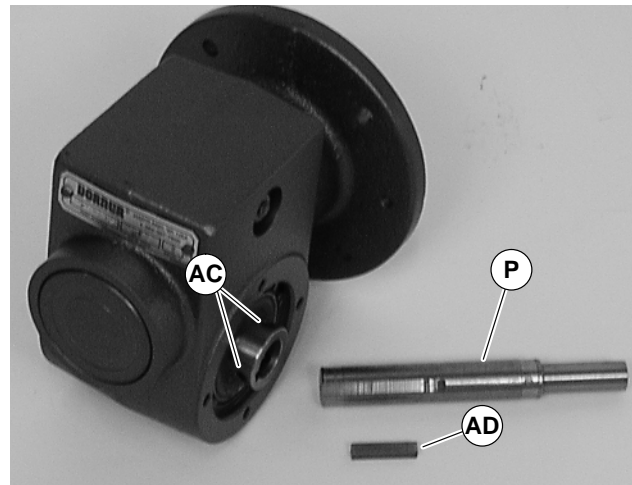


Figure 27

7. Apply grease (AE of Figure 28) to shaft.

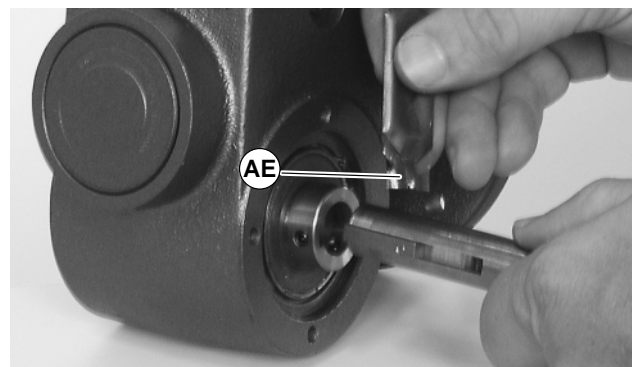


Figure 28

8. Replace the original shaft components into new gear reducer (see Figure 27).

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

9. With key (Y of Figure 26) in keyway, slide motor (AA) and gear reducer (AB) together. Install screws (X) and tighten.
10. Attach coupling (H of Figure 26) to gear reducer shaft. Tighten two set screws (U) to 4.7 Nm.
11. Attach gearmotor support assembly (J of Figure 29) and guard tube (G) to gearmotor assembly (F). Tighten screws (K) to 12 Nm.

# Preventive Maintenance and Adjustment

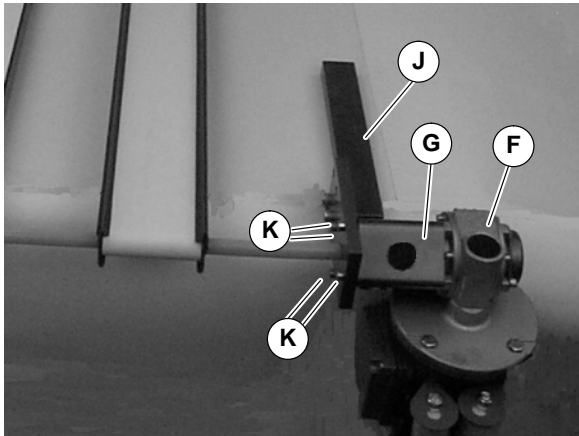


Figure 29

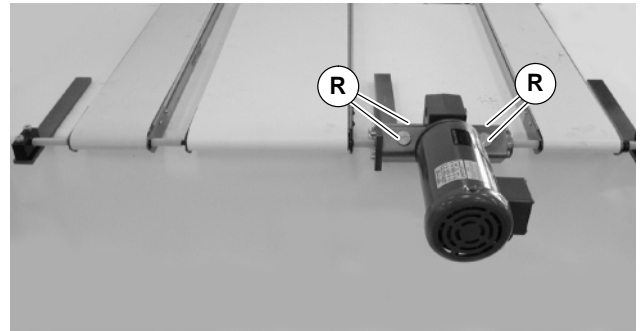


Figure 31

|  |  |  |
|--|--|--|
|  |  | <b>WARNING</b><br>Exposed moving parts can cause severe injury.<br><b>REPLACE INSPECTION PLUGS (R of Figure 30) BEFORE RUNNING CONVEYOR.</b> |
|  |  |  |

12. Tighten coupling set screws (U of Figure 30). Replace inspection plugs (R).

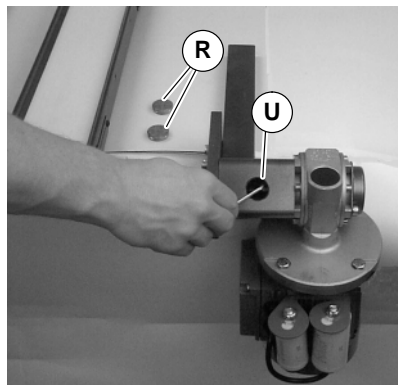


Figure 30

|  |  |  |
|--|--|--|
|  |  | <b>WARNING</b><br>Exposed moving parts can cause severe injury.<br><b>KEEP HANDS CLEAR OF DRIVE WHILE JOGGING MOTOR.</b> |
|  |  |  |

2. Jog motor and rotate coupling to align set screws (U of Figure 32) with access hole (AH). Loosen set screws (U) on both sides of gearmotor assembly (F). Repeat for second set screws.

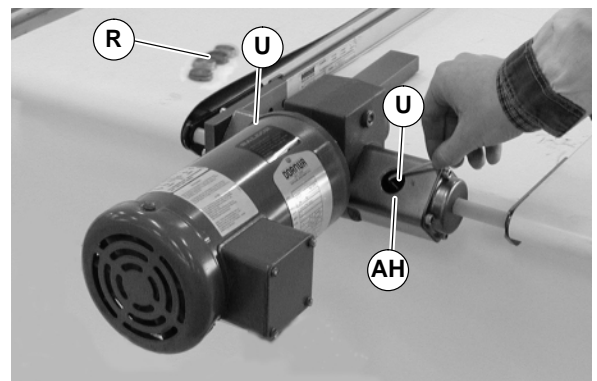


Figure 32

3. Remove four (4) screws (T of Figure 33). Remove bearing blocks (O).

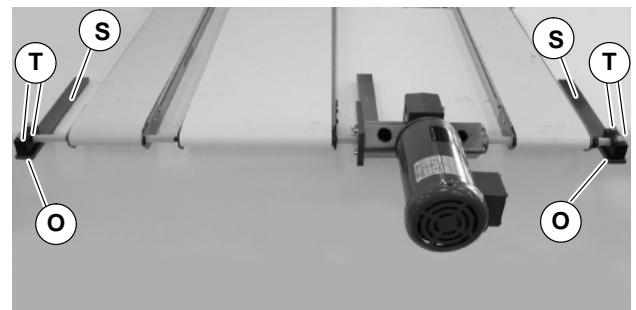


Figure 33

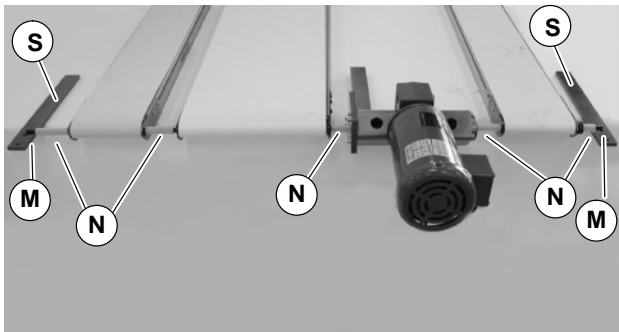
## 63U03 Dual Output Gang Drive Package

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

1. Remove inspection plugs (R of Figure 31).

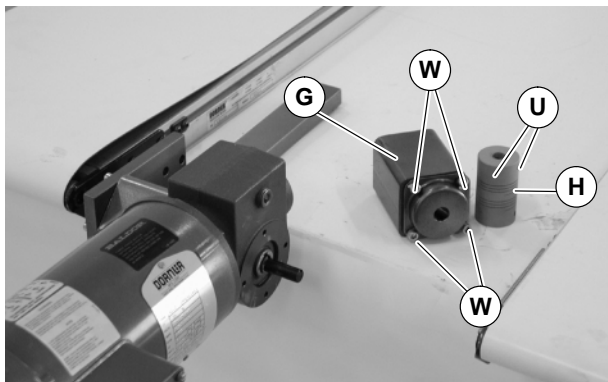
# Preventive Maintenance and Adjustment

4. Remove hex shafts (M of Figure 34) and shaft cover pieces (N).



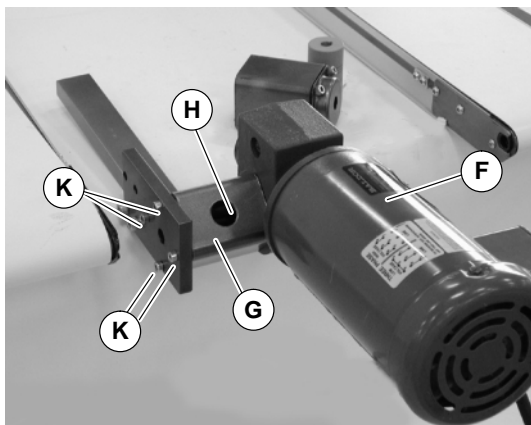
**Figure 34**

5. Remove four (4) screws (W of Figure 35) and remove guard tube (G). Loosen set screws (U) and remove flex coupling (H).



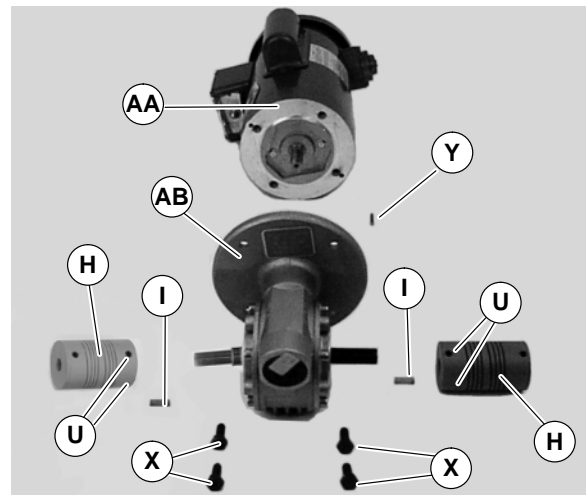
**Figure 35**

6. Remove four (4) screws (K of Figure 36) and remove guard tube (G) and flex coupling (H). Remove gearmotor assembly (F).



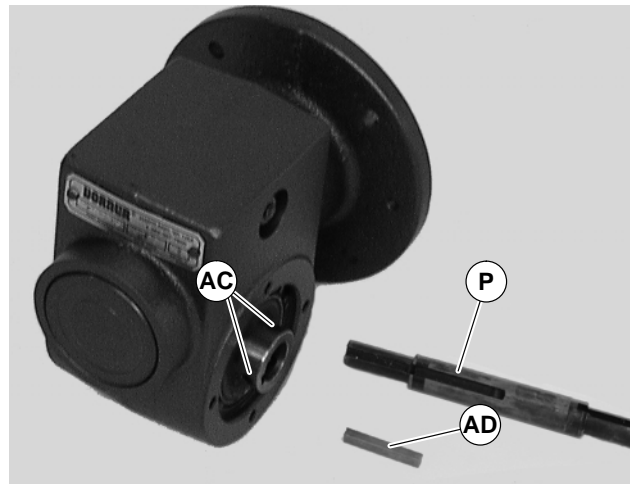
**Figure 36**

7. Remove four screws (X of Figure 37). Detach motor (AA) from gear reducer (AB). Retain shaft key (Y).



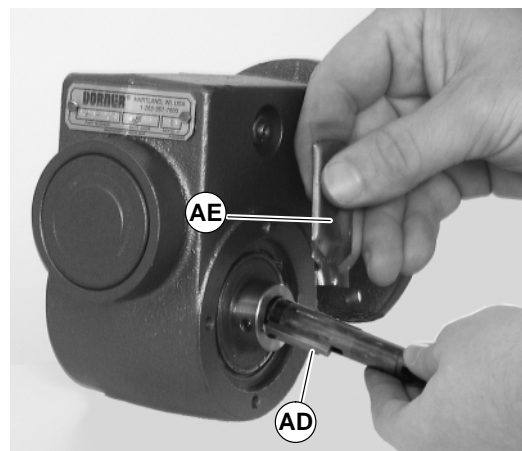
**Figure 37**

8. Remove gear reducer output shaft keys (I).
9. Loosen six (6) set screws (AC of Figure 38). Remove drive shaft (P) and key (AD).



**Figure 38**

10. Apply grease (AE of Figure 39) to shaft.





**Figure 39**

11. Replace the original shaft components into new gear reducer (see Figure 38).

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

12. With key (Y of Figure 37) in keyway, slide motor (AA) and gear reducer (AB) together. Install screws (X) and tighten.
13. Attach couplings (H of Figure 37) to gear reducer shaft. Tighten set screws (U) to 4.7 Nm.
14. Complete installation steps on page 7. See “63M03 Dual Output Gang Drive Package” section, steps 7 through 18.

### Motor Replacement

|   |  |
|---|--|
|    | <p><b>! WARNING</b></p> <p>Exposed moving parts can cause severe injury. <b>LOCK OUT POWER</b> before removing guards or performing maintenance.</p> |
|  | <p><b>! DANGER</b></p> <p>Hazardous voltage will cause severe injury or death. <b>LOCKOUT POWER BEFORE wiring.</b></p>                               |

1. For single phase motor, unplug power cord from outlet.
  - a. Loosen terminal box screws (AF of Figure 40) and remove cover (AG).

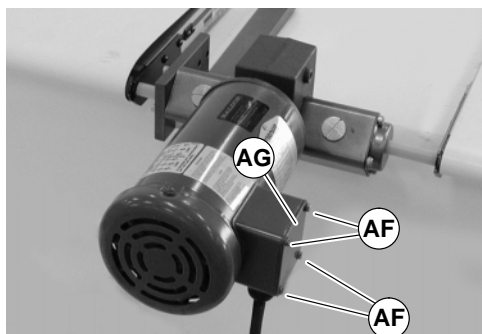


Figure 40

- b. Record wire colors on terminals 2, 6 and ground ( $\perp$ ) (Figure 41). Loosen terminals 2, 6 and ground and remove wires.

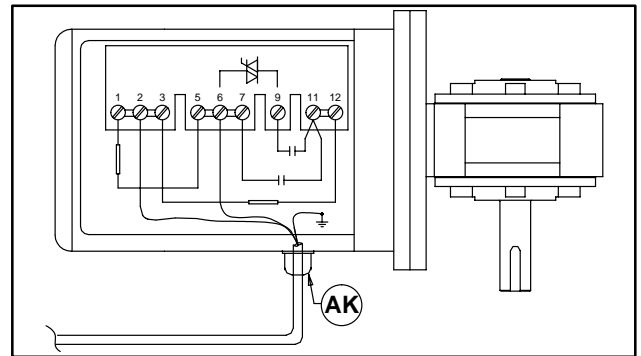


Figure 41

- c. Loosen cord grip (AK of Figure 41) and remove cord.
2. For three phase and VFD variable speed motor:
  - a. Loosen terminal box screws (AF of Figure 40) and remove cover (AG).
  - b. Record wire colors on terminals U1, V1, W1 & PE (Figure 42). Loosen terminals U1, V1, W1 & PE and remove wires.

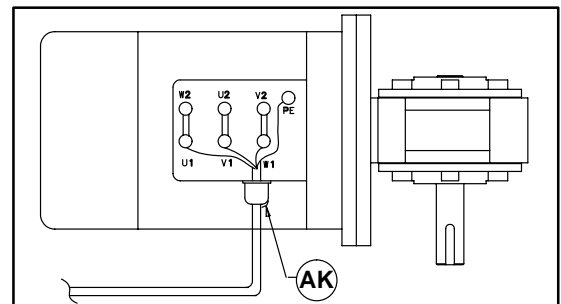


Figure 42

- c. Loosen cord grip (AK of Figure 42) and remove cord.

# Preventive Maintenance and Adjustment

3. For DC variable speed motor, unplug motor cord at disconnect (AH of Figure 43).

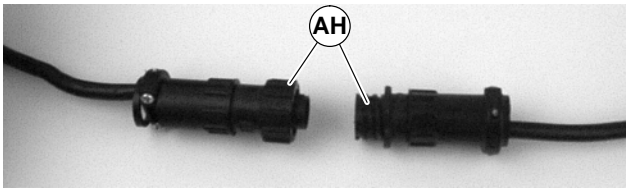


Figure 43

4. Remove four screws (X of Figure 44). Detach motor (AA) from gear reducer (AB). Retain motor output shaft key (Y of Figure 45).

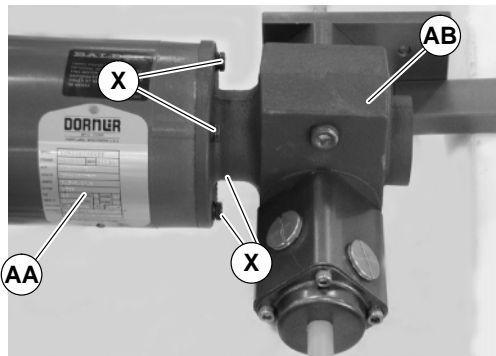


Figure 44

**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 (Y of Figure 45) in keyway, slide new motor and gear reducer together. Install screws (X) and tighten.

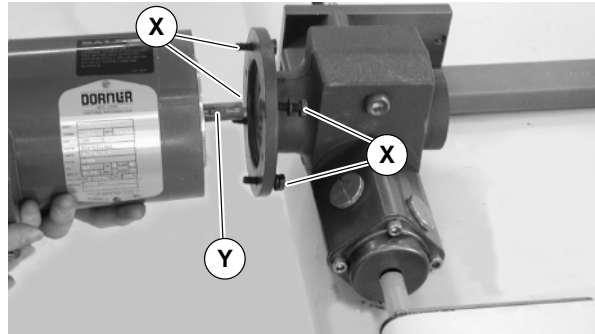


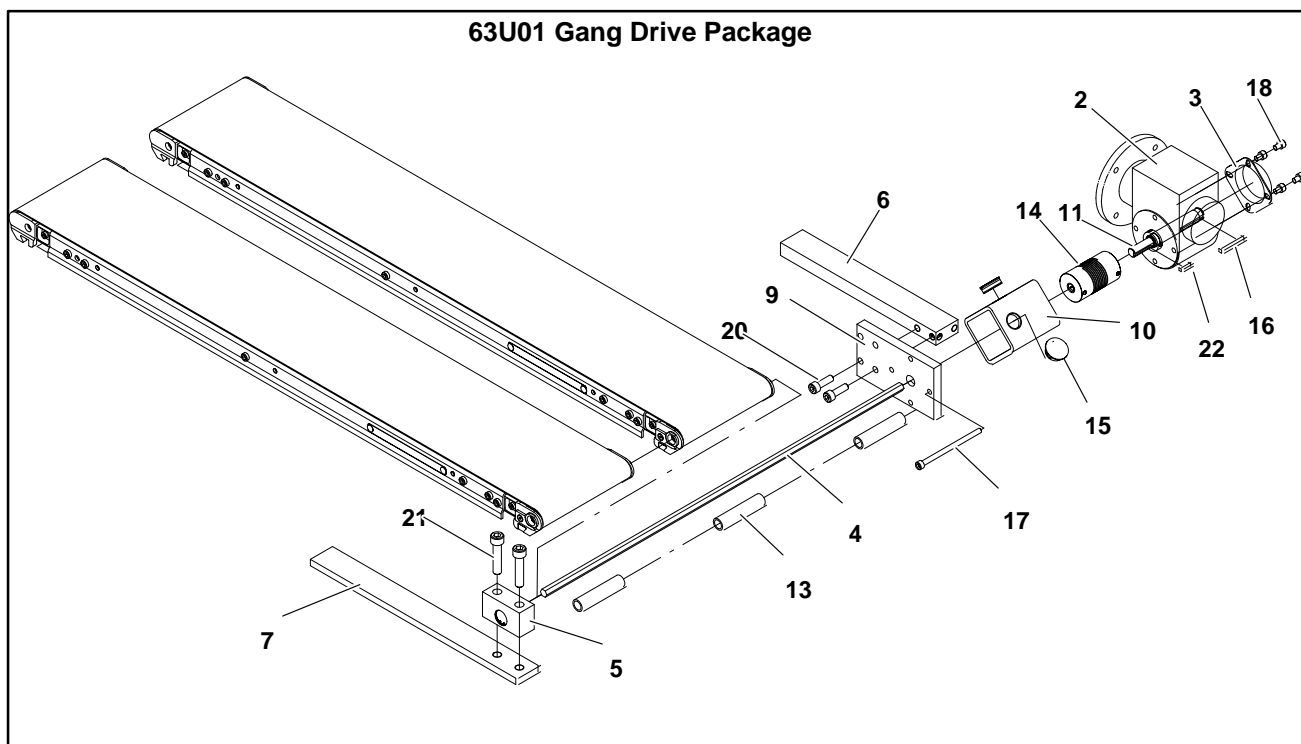
Figure 45

6. Replace wiring:

- For a single phase motor, reverse step 1 on page 13.
- For a three phase or VFD variable speed motor, reverse step 2 on page 13.

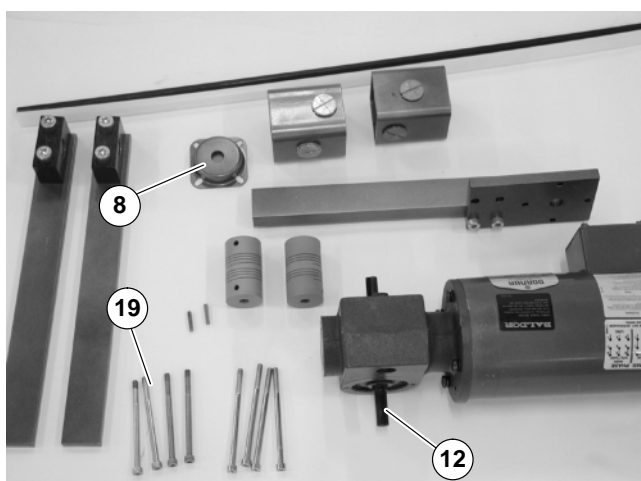
## Service Parts

**NOTE:** For replacement parts other than those shown on this page, contact an authorized Dorner Service Center or the factory.

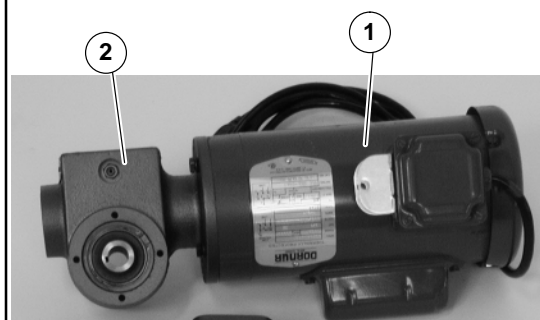




## 63U03 Dual Output Gang Drive Package



## 63U01 and 63U03 Motor and Gear Reducer Assembly



| Item | Part Number | Part Description                                      |
|------|-------------|---|
| 1    | 826-281     | Motor, 0.19 Kw 230 Volts, 1400 RPM 50 Hz, 1-Phase     |
|      | 826-284     | Motor, 0.19 Kw 230/400 Volts, 1400 RPM 50 Hz, 3-Phase |
| 2    | 62Z005HS    | Gear Reducer, 5:1, 63 B5                              |
|      | 62Z010HS    | Gear Reducer, 10:1, 63 B5                             |
|      | 62Z020HS    | Gear Reducer, 20:1, 63 B5                             |
|      | 62Z040HS    | Gear Reducer, 40:1, 63 B5                             |
|      | 62Z060HS    | Gear Reducer, 60:1, 63 B5                             |
| 3    | 300139M     | Shaft Cover, Drive Bearing                            |
| 4    | 43-24       | Hex Shaft, 1219mm                                     |
| 5    | 450092      | Block Assembly  |
| 6    | 450093M     | Drive Bar, Motor Mount                                |
| 7    | 450094M     | Drive Bar, Bearing Block                              |
| 8    | 450095M     | Shaft Cover Euro Bolster                              |

|    |          |                                    |
|----|----------|------------------------------------|
| 9  | 450099M  | Drive Plate                        |
| 10 | 450474   | Spacer Tube, Side Drive            |
| 11 | 450444M  | Output Shaft, Grove 12mm           |
| 12 | 450470M  | Output Shaft, 12mm Double          |
| 13 | 807-967  | Flexible Tubing                    |
| 14 | 807-996  | Flex Coupling 1.5 D x 12mm x 3/8 H |
| 15 | 807-1147 | Plug                               |
| 16 | 912-084  | Square Key .188" x 1.50"           |
| 17 | 920600M  | Socket Head Screw M6 x 100mm       |
| 18 | 920608M  | Socket Head Screw M6 x 8mm         |
| 19 | 920690M  | Socket Head Screw M6 x 90mm        |
| 20 | 920825M  | Socket Head Screw M8 x 25mm        |
| 21 | 921045M  | Socket Head Screw M10 x 45mm       |
| 22 | 980416M  | Square Key 4mm x 16mm              |

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## Return Policy

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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](http://www.dorner.com)

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

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