



7600 Series Center Drive Package

Installation, Maintenance and Parts Manual



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Introduction

CAUTION

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.

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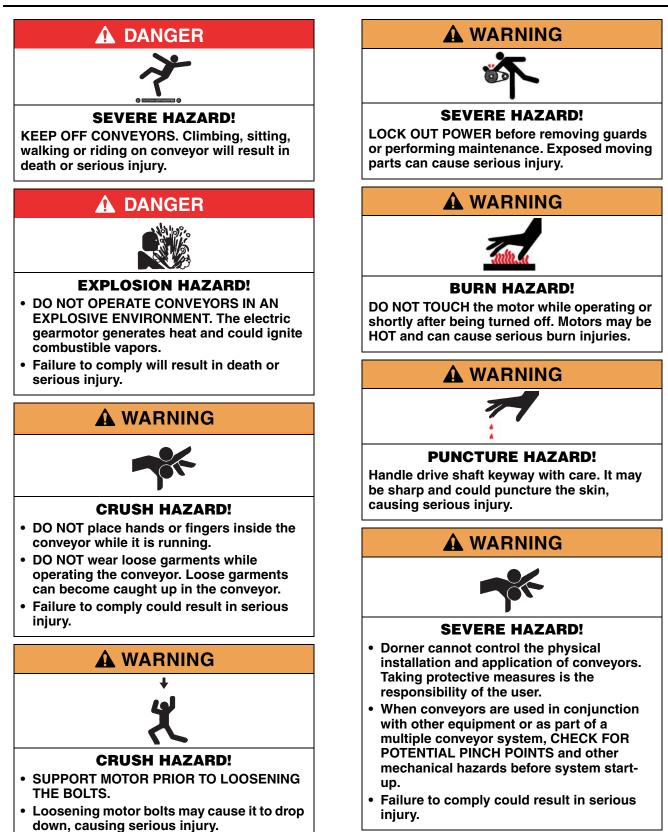
The Dorner Limited Warranty applies.

Dorner 7600 Series conveyors have patents pending.

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 gearmotor assembly components.

1	Conveyor
2	Mounting bar
3	Gear reducer
4	Motor
5	Gear reducer mounting bracket

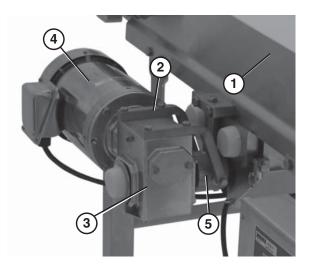
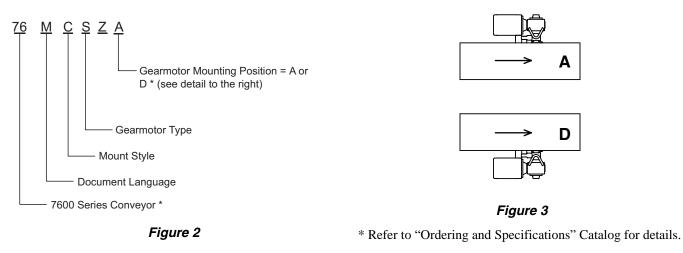


Figure 1

Specifications

7600 Series Gearmotor Mounting Package Models

Example:



Specifications

7600 Series Gearmotor Specifications

	Singe Phase	Three Phase	
Output Power	0.50 hp (0.37 kW)	.50 hp (.37 kW) /1 hp (.74 KW) / 1.5 hp (1.11 kW)	
Input Voltage	115 V A.C.	208 - 230 / 460 V.A.C.	
Input Frequency	60 Hz	6 – 60 Hz	
Motor RPM	22 - 44	22 - 233	
Gearmotor Ratios	5:1, 7:1, 10:1, 15:1, 20:1, 30:1, 40:1, 60:1, 80:1		
Frame Size	NEMA 56 C		
Motor Type	Totally Enclosed, Non-ventilated (Except 1.5 hp Stainless Steel Gearmotor = Totally Enclosed, Fan Cooled)		

* Refer to "Ordering and Specifications" Catalog for details.

Fixed Speed Gearmotor

Part Number	ft / min	m / min	RPM	in • lb	N • m
74M080H(x)4(vp)FN	20	6.1	22	356	40.2
74M060H(x)4(vp)FN	27	8.2	29	442	49.9
74M040H(x)4(vp)FN	41	12.5	44	486	54.9
74M030H(x)4(vp)FN	54	16.5	58	487	55.0
74M020H(x)4(vp)FN	81	24.7	87	407	46.0
74M015H(x)4(vp)FN	109	33.2	117	470	53.1
74M010H(x)4(vp)FN	164	50.0	175	442	49.9
74M007H(x)4(vp)FN	218	66.4	233	360	40.7
74M005H(x)4(vp)FN	325	100.0	350	337	38.1

Variable Speed Gearmotor

Part Number	ft / min	m / min	RPM	in • lb	N • m
74M080H(x)4(vp)EN	2 - 20	0.6 - 6.1	22	356	40.2
74M060H(x)4(vp)EN	3 - 27	0.9 - 8.2	29	442	49.9
74M040H(x)4(vp)EN	5 - 41	1.3 - 12.5	44	486	54.9
74M030H(x)4(vp)EN	6 - 54	2.0 - 16.5	58	487	55.0
74M020H(x)4(vp)EN	9 - 81	2.6 - 24.7	87	407	46.0
74M015H(x)4(vp)EN	11 - 109	3.4 - 33.2	117	470	53.1
74M010H(x)4(vp)EN	17 - 164	5.2 - 50.0	175	442	49.9
74M007H(x)4(vp)EN	22 - 218	6.7 - 66.4	233	360	40.7
74M005H(x)4(vp)EN	34 - 328	10.4 - 100.0	350	337	38.1

NOTE

Contact the factory for details about belt speeds other than those listed.

Installation

Required Tools

- 5 / 16" wrench (or adjustable wrench)
- 4 mm or 5 / 32" hex wrench (for bearing shaft assembly fasteners)
- Torque wrench

Center Drive Package Installation



Typical Horizontal Drive Package Components (Figure 4)

- 1 Bearing Cover
- 2 Cover bracket
- 3 Hex head cap screw 5 / 16 18 x .50 (x4)
- 4 Gearmotor assembly
- 5 Bent bar (x2)
- 6 Hex head cap screw 5 / 16 18 x 1.12 (x6)
- 7 Hex head cap screw M10-1.50
- 8 Center drive mounting bracket

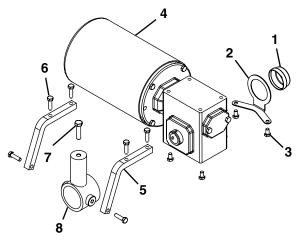
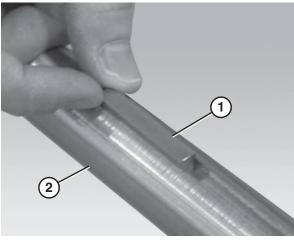


Figure 4

1. Insert the drive spindle key (Figure 5, item 1) into the drive spindle keyway (Figure 5, item 2).





2. Slide the gear reducer (Figure 6, item 1) onto the drive spindle (Figure 6, item 2).

Installation

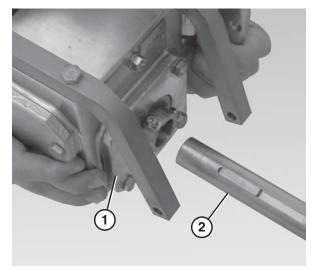


Figure 6

3. Attach the bent bars (Figure 7, item 1) to the center drive mounting bracket (Figure 7, item 2).

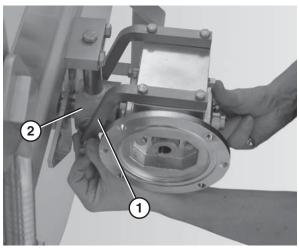


Figure 7

4. Use a 4 mm hex wrench to tighten the outside button head screws (Figure 8, item 1) and the inside button head screws (Figure 8, item 2) that connect the gearmotor to the drive spindle.

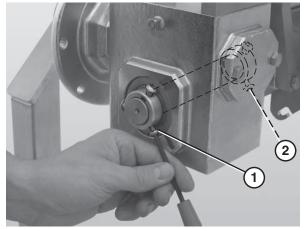


Figure 8

5. Attach the bearing cover (Figure 9, item 1).

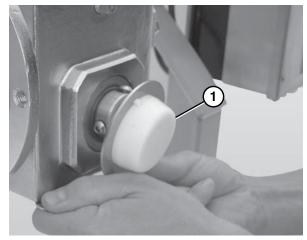


Figure 9

CAUTION

Ensure the gearmotor output shaft key (Figure 10, item 1) is situated properly before attaching the motor to the gear reducer.

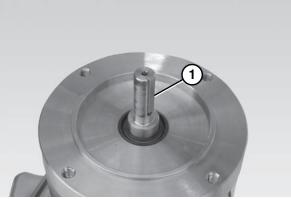


Figure 10

Installation

6. Attach the motor (Figure 11, item 1) to the gear reducer (Figure 11, item 1).

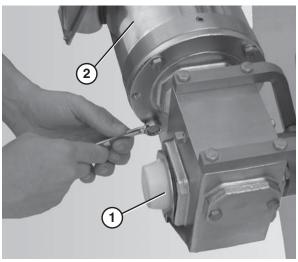


Figure 11

7. Remove the drainage plugs (Figure 12, item 1) on the bottom side of the motor.



Figure 12

Required Tools

- 5 / 16" wrench
- 4 mm hex wrench
- 10 mm wrench
- Large flat-head screwdriver

Checklist

- Keep service parts on hand. Refer to the "Service Parts" section starting on page 13 for recommendations.
- Replace any worn or damaged parts.

Gear Reducer Replacement



1. Remove the bolts (Figure 13, item 1) that connect the motor (Figure 13, item 2) to the gear reducer (Figure 13, item 3).

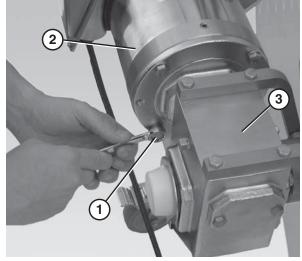


Figure 13

2. Disconnect the motor (Figure 14, item 1) from the gear reducer (Figure 14, item 2) and set the motor aside.

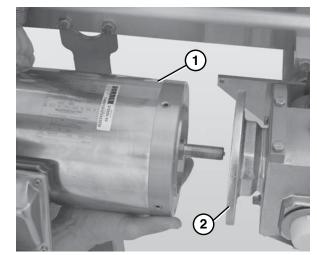
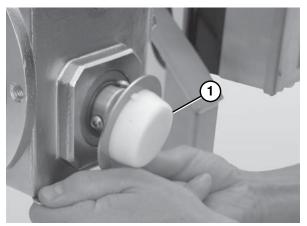


Figure 14

NOTE

Be sure to retain the motor output shaft key.

3. Remove the bearing cover (Figure 15, item 1).





4. Loosen the drive spindle fasteners (Figure 16, item 1) located on the inside and outside of the gearmotor assembly using a 4 mm hex wrench (Figure 16, item 2).

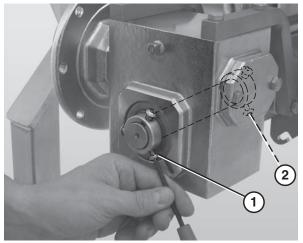
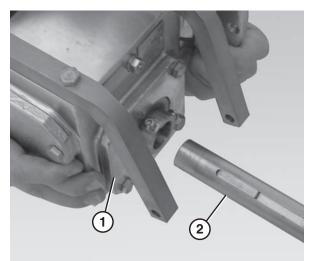


Figure 16



5. Slide the gearmotor assembly (Figure 17, item 1) off the drive spindle (Figure 17, item 2).





NOTE

- Be sure to retain the drive spindle key.
- 6. Replace the gear reducer.
- Insert the gearmotor output shaft key (Figure 18, item 1) into the gearmotor output shaft keyway (Figure 18, item 2).

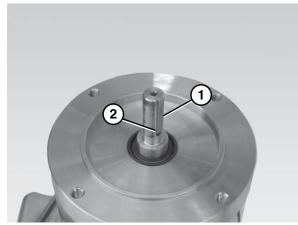


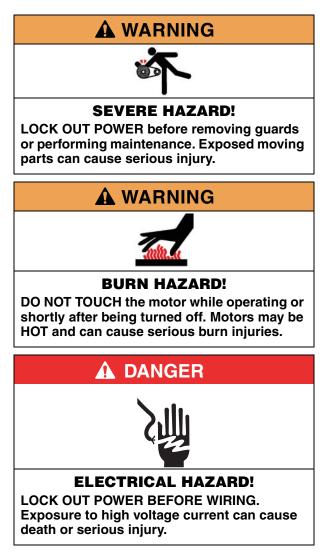
Figure 18

CAUTION

Ensure the gearmotor output shaft key (Figure 18, item 1) is situated properly before attaching the motor to the gear reducer.

- 8. Connect the new gear reducer to the motor.
- 9. Reinstall the gearmotor assembly. Refer to "Center Drive Package Installation" starting on page 6.

Motor Replacement



1. Loosen the screws and remove the cover (Figure 19, item 1) from the junction box located on the side of the motor (Figure 19, item 2).

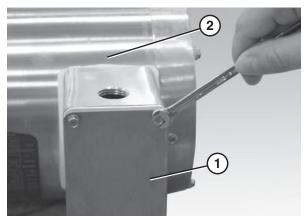


Figure 19

2. Refer to the wiring diagram (Figure 20, item 1) on the inside of the junction box cover.

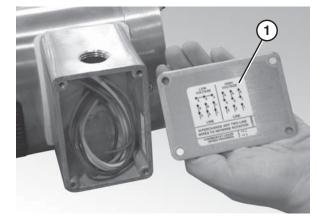
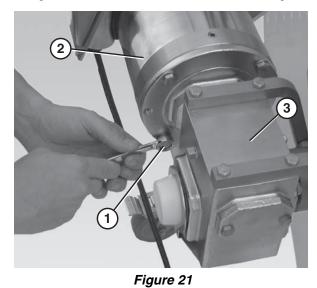


Figure 20

- 3. Loosen the wire nuts and disconnect the wires.
- 4. Loosen the cord grip and remove the cord.



- Loosening motor bolts may cause it to drop down, causing serious injury.
- 5. Remove the bolts (Figure 21, item 1) that connect the motor (Figure 21, item 2) to the gear reducer (Figure 21, item 3) (horizontal drive shown in figures).



6. Detach the motor (Figure 22, item 1) from the gear reducer (Figure 22, item 2).

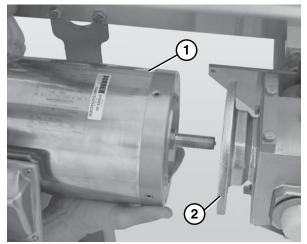
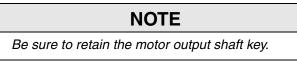


Figure 22



7. Insert the motor output shaft key (Figure 23, item 1) into the motor output shaft keyway (Figure 23, item 2).

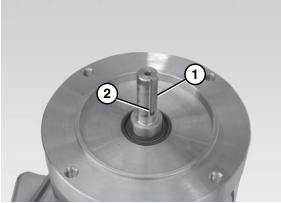


Figure 23

8. Align the motor output shaft key with the access hole in the gear reducer and connect the new motor to the gear reducer.

CAUTION

Ensure the gearmotor output shaft key (Figure 23, item 1) is situated properly before attaching the motor to the gear reducer.

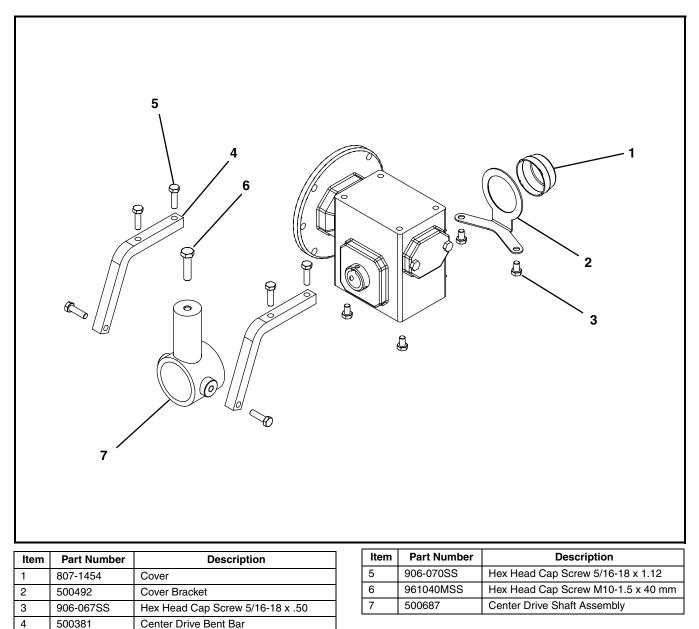
9. Rewire the motor and attach the junction box cover.

Service Parts

NOTE

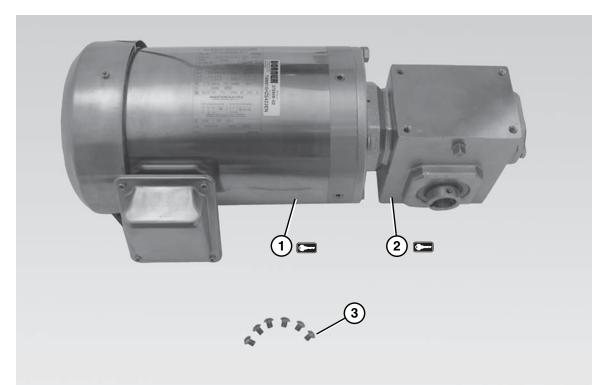
For replacement parts other than those shown in this section, contact an authorized Dorner Service Center or the factory. Key Service Parts and Kits are identified by the Performance Parts Kits logo 🚍 . Dorner recommends keeping these parts on hand.

Center Drive



Service Parts

Gearmotor Assembly



Item	Part Number	Description
1	62MZ411	Painted Motor, 0.50 Hp (0.37Kw) 115 Volts, 60Hz, 1 Phase
	62MZ423	Painted Motor, 0.50 Hp (0.37Kw) 208- 230/460 Volts, 6 to 60Hz, 3 Phase
	74MHS423-10	Painted Motor, 1.00 Hp (0.74Kw) 208- 230/460 Volts, 6 to 60Hz, 3 Phase
	74MHS423-15	Painted Motor, 1.50 Hp (1.11Kw) 208- 230/460 Volts, 6 to 60Hz, 3 Phase
	62MZS423	Stainless Steel Motor, 0.50 Hp (0.37Kw) 208-230/460 Volts, 6 to 60Hz, 3 Phase
	74MZS423-10	Stainless Steel Motor, 1.00 Hp (0.74Kw) 208-230/460 Volts, 6 to 60Hz, 3 Phase
	74MZS423-15	Stainless Steel Motor, 1.50 Hp (1.11Kw) 208-230/460 Volts, 6 to 60Hz, 3 Phase

Item	Part Number	Description
2	74M005HS	Painted Gear Reducer, 5:1, 56C
•	74M007HS	Painted Gear Reducer, 7:1, 56C
	74M010HS	Painted Gear Reducer, 10:1, 56C
	74M015HS	Painted Gear Reducer, 15:1, 56C
	74M020HS	Painted Gear Reducer, 20:1, 56C
	74M030HS	Painted Gear Reducer, 30:1, 56C
	74M040HS	Painted Gear Reducer, 40:1, 56C
	74M060HS	Painted Gear Reducer, 60:1, 56C
	74M080HS	Painted Gear Reducer, 80:1, 56C
	74M005HZ	Stainless Steel Gear Reducer, 5:1, 56C
	74M007HZ	Stainless Steel Gear Reducer, 7:1, 56C
	74M010HZ	Stainless Steel Gear Reducer, 10:1, 56C
	74M015HZ	Stainless Steel Gear Reducer, 15:1, 56C
	74M020HZ	Stainless Steel Gear Reducer, 20:1, 56C
	74M030HZ	Stainless Steel Gear Reducer, 30:1, 56C
	74M040HZ	Stainless Steel Gear Reducer, 40:1, 56C
	74M060HZ	Stainless Steel Gear Reducer, 60:1, 56C
	74M080HZ	Stainless Steel Gear Reducer, 80:1, 56C
3	917-104	Stainless Steel Socket Head Cap Screw
		10-32 x .25 for Painted Gearmotor
	916-126	Stainless Steel Button Head Cap Screw
		1/4-20 x .31 for Stainless Steel
		Gearmotor

Notes

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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