

Variable Speed Controller

Installation, Maintenance and Parts Manual



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Table of Contents

Introduction2	Conveyer Mount	5
	Stand Mount	
Product Description	Preventive Maintenance and Adjustment	7
Specifications 4	Service Parts	8
Variable Speed Controller	Brushless DC Motor Control	8
Installation	Notes	9
Required Tools	Return Policy1	0

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

Warnings – General Safety

A WARNING

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

A DANGER



Climbing, sitting, walking or riding on conveyor will cause severe injury.
KEEP OFF CONVEYORS.

A DANGER



DO NOT OPERATE CONVEYORS IN AN EXPLOSIVE ENVIRONMENT.

A WARNING

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

A DANGER



Hazardous voltage will cause severe injury or death.

LOCKOUT POWER BEFORE wiring.

A WARNING



Exposed moving parts can cause severe injury.

DO NOT ATTEMPT ADJUSTMENTS WITH CONVEYOR RUNNING.

A WARNING



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

When conveyors are used in conjunction with other equipment or as part of a multiple conveyor system, CHECK FOR POTENTIAL PINCH POINTS and other mechanical hazards before system start-up.

Product Description

Dorner Variable Speed VFD Controllers (Figure 1) are AC motor speed controllers for Standard and Heavy Load VFD gearmotors.



Figure 1

NOTE

For additional information, refer to KB Electronics Controller Install and Operation Manual KBWA-23D shipped with your controller for controller operation details. See Specifications table for models.

Typical Components:

- 1 On/Off Switch
- 2 Speed Potentiometer
- 3 Forward/Stop/Reverse Switch

Specifications

Variable Speed Controller

Part Number	Input Volts (VAC)	Input Phase	Input Frequency (Hz)	Output Volts (VAC)	Output Phase	Max. HP	Max. Amps	Reversing
22MV1122B	115	Single	60	230	Three	0.5	2.4	No
22MV1122BR	115	Single	60	230	Three	0.5	2.4	Yes
22MV1106B	115	Single	60	230	Three	0.125	0.6	No
22MV1106BR	115	Single	60	230	Three	0.125	0.6	Yes

Installation

Required Tools

- Hex key wrenches: 3 mm, 5 mm
- Flat-blade screwdriver

Conveyer Mount



Exposed moving parts can cause severe injury.

LOCK OUT POWER before removing guards or performing maintenance.

1. Assemble mounting clips (Figure 2, item 1) with 1/4x1 in. socket head screws (Figure 2, item 2) to the top of the controller.

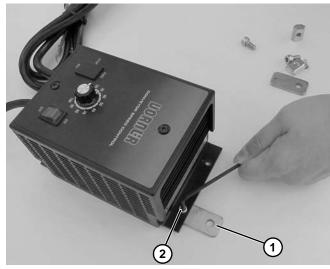


Figure 2

2. Install T-bars (**Figure 3, item 1**) into T-slots of conveyor.

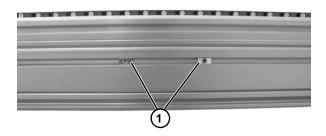


Figure 3

3. Attach controller to conveyor with two M6x12 socket head screws (**Figure 4**, item 1).



Fiaure 4

Installation

Stand Mount

A WARNING



Exposed moving parts can cause severe injury.

LOCK OUT POWER before removing guards or performing maintenance.

1. Assemble mounting clips (Figure 5, item 1) with 1/4x1 in. socket head screws (Figure 5, item 2) to the side of the controller.

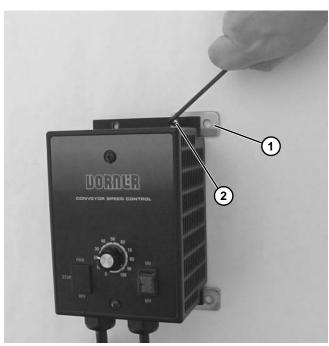


Figure 5

2. Install T-bars (**Figure 6, item 1**) into T-slots of stand leg.



Figure 6

3. Attach controller to stands with two M6x12 socket head screws (**Figure 6**, item 2).

Preventive Maintenance and Adjustment

NOTE

Refer to KB Electronics Controller Install and Operation Manual KBWA-23D shipped with your controller for Preventative Maintenance and Adjustment details.

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.

Brushless DC Motor Control



Item	Part Number	Description
1	807-1937	Hex Head Screw, 1/4-20 x 1" (x2)
2	202658	Mounting Clip (x2)
3	920612M	Socket Head Screw, M6-1.00 x 12 mm (x2)
4	639971M	T-Bar, Single Drop-In (x2)
5	827-101	Controller
	827-100	Reversing Controller

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:

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

A representative will discuss action to be taken on the returned items and provide a Returned Goods Authorization (RMA) number for reference. RMA will automatically close 30 days after being issued. To get credit, items must be new and undamaged. There will be a return charge on all items returned for credit, where Dorner was not at fault. It is the customer's responsibility to prevent damage during return shipping. Damaged or modified items will not be accepted. The customer is responsible for return freight.

	Product Type								
	Standard Products						Engineered to order parts		
Product Line	Conveyors	Gearmotors & Mounting Packages	Support Stands	Accessories	Spare Parts (non-belt)	Spare Belts - Standard Flat Fabric	Spare Belts - Cleated & Specialty Fabric	Spare Belts - Plastic Chain	All equipment and parts
1100						I.		l .	
2200									
2200 Modular Belt									
2200 Precision Move									
2300									1
2300 Modular Belt									
3200	30% return fee for all products except: 50% return fee for conveyors with modular belt, cleated belt or specialty belts non-retur								
3200 LPZ							non-ret	urnable	case-by-case
3200 Precision Move									
4100									
5200									
5300									
6200									
Controls									
7200 / 7300	50% return fee for all products								
7350									
7360	non returneble								
7400	non-returnable								
7600									

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 Customer Service Team 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.



Dorner Mfg. Corp. reserves the right to change or discontinue products without notice. All products and services are covered in accordance with our standard warranty. All rights reserved. © Dorner Mfg. Corp. 2012

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