

VJ1000

Electrical Spare Part Manual with Picture



Another quality product from:

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Thank you for purchasing a VJ1000™ high performance printing system. The VJ1000™ provides the Technology you need to print and dry at high speeds. With this system, your company will increase throughput and quality.

The VJ1000™ is one of many high-quality, innovative systems available from Matti Technology AG, Switzerland. If you would like information on our other systems or require technical assistance or spare part replacement, please contact one of our field service engineer or customer service specialists at:

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Again, thank you and welcome to the growing family of Matti Technology AG customers. We appreciate your current and continued business.

Sincerely,

Dr. Dieter Woschitz
President

Pascal Fäh
Vice President Operating

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1.2 List of Tables

Foreword

The purpose of this manual is to provide the necessary information to enable experienced personnel to maintain the Versamark® VJ1000 Printing System.

It is assumed that all necessary tools, precision measuring devices and equipment for safely maintaining this system will be available. Information and data is based on the latest product information available at the time of writing.

The right is reserved to make changes at any time, in materials, specifications, models and discontinue models.

Note: In order to clearly show details of this system some covers, shields, door or guards have either been removed or shown in an open position. All such protective devices must be installed in position before operating the system.

1.3 Important

Carefully read the instructions and safety precautions given in this manual. Do not attempt to maintain this system until you have thoroughly read and understood the data contained in this manual.

At the time of writing, this manual was completely up-to-date. However, due to product development, some illustrations or descriptions contained herein may vary to a slight extent from the system delivered to you. This merely implies that the system has been improved to better fulfill your requirements. If there are any questions, you are encouraged to contact our field service personnel for assistance at:

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2 Labels

The following chapters explain the different labels used on the transport system.

2.1 Safety Labels

2.1.1. Dangerous voltage



Illustration 1: Dangerous voltage

Dangerous voltage. Contact may cause electric shock or burn.

DANGER! Power terminals remain live up to 3 minutes after mains disconnection.

2.1.2. Burn hazard



Illustration 2: Burn hazard

Burn hazard, hot surface. Do not touch the surface of this component during equipment operation. Allow to cool down before servicing.

2.1.3. Danger of cuts from moving paper



Illustration 3: Danger from cut of moving paper

Danger of cuts from moving paper. Keep body away from edge of moving paper.

2.1.4. Danger of crushing



Illustration 4: Danger of crushing

Danger of crushing from moving paper roll. Stand back from the lift arms and paper roll during operation.

2.1.5. Pinch point rollers



Illustration 5: Pinch point rollers

Pinch point danger from rollers. Keep hands and clothing away from rotating rollers.

2.1.6. Pinch point from moving parts



Illustration 6: Danger from moving parts

Danger from moving parts. Moving parts can crush and cut. Do not operate with guard removed. Follow lockout procedure before servicing. Disconnect main power before servicing.

2.1.7. Danger of entanglement from belt drive



Illustration 7: Danger of entanglement from belt drive

Danger of entanglement from belt drive. Shear hazard. Moving part can crush and cut. Keep hand clear. Do not operate with guard removed. Follow lockout procedure before servicing.

2.1.8. Danger of entanglement from rotating gear



Illustration 8: Danger of rotating gear

Danger of rotating gear. Keep hands and clothing away from rotating gear. Danger of entanglement from gear. Moving part can crush and cut. Keep hand clear. Do not operate with guard removed. Follow lockout procedure before servicing.

2.1.9. Danger of cutting blade



Illustration 9: Danger of cutting blade

Danger of cutting blade. Shear hazard. Moving part can crush and cut. Keep hand clear. Do not operate with guard removed. Follow lockout procedure before servicing.

2.1.10. Danger of cutting of fingers or hand



Illustration 10: Danger of cutting of fingers or hand / angled blade

Danger of cutting of fingers or hand. Moving parts can crush and cut. Do not operate with guard removed. Follow lockout procedure before servicing.

2.2 Text warning Labels

2.2.1. Running with different voltages and frequencies



Illustration 11: Running with different voltages and frequencies

2.2.2. Disconnect main switch before servicing



Illustration 12: Disconnect main switch before servicing

2.2.3. This switch does not disconnect all power of this machine

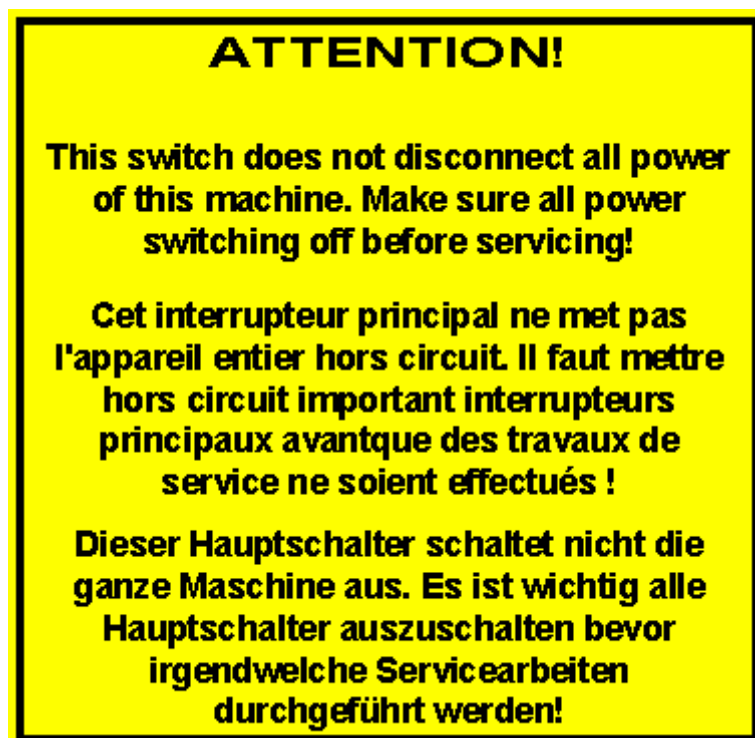


Illustration 13: This switch does not disconnect all power of this machine

2.2.4. Inside the dryer it is maybe very hot



Illustration 14: Inside the dryer it is maybe very hot

2.2.5. Compressor installed under the cover









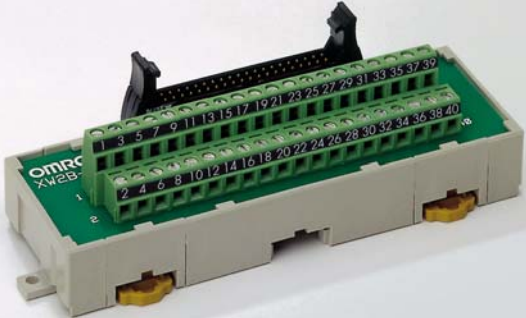
Illustration 15: Compressor installed under the cover

3 Description of Parts with Picture

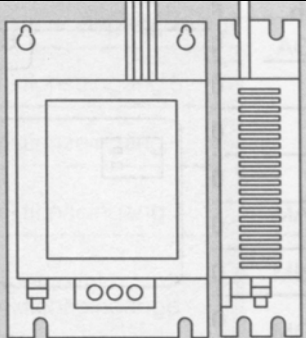
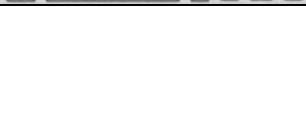



When ordering spare parts, it is important to note the Serial Number of the machine to facilitate correct identification of parts, together with the Part No. of the component. The Serial Number is written on the type plate at the drive side of the machine.

3.1 CPU

<u>Description</u>	<u>Part number</u>	<u>Photo</u>
Illustration 16: CPU	CJ1M-CPU22	
Illustration 17: Power input 100-240VAC, 14W	CJ1W-PA202	
Illustration 18: 16 Digital Input, 24VDC, NPN/PNP	CJ1W-ID211	

<p>Illustration 19: 16 Digital Output, 24VDC, 0.5A, Transistor, PNP</p>	<p>CJ1W-OD212</p>	
<p>Illustration 20: Ethernet Module, 10Base-T, RJ45-Plug</p>	<p>CJ1W-ETN21</p>	
<p>Illustration 21: PLC Battery</p>	<p>CJ1W-BAT01</p>	
<p>Illustration 22: Terminal block</p>	<p>XW2B-40G4</p>	

3.2 Filter and Power supply

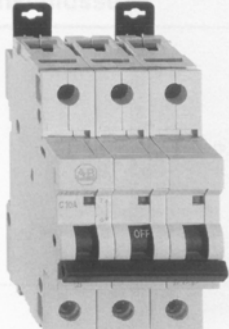
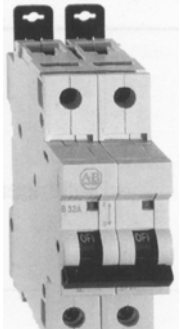

<p>Illustration 23: Power conversion equipment Installed behind Frequency converter 3G3MV-AB004</p>	<p>3G3MV-PF11020E</p>	
<p>Illustration 24: Connecting cable second analog Input for 3G3MV-AB004</p>	<p>3G3MV-PCN-CN2</p>	
<p>Illustration 25: Main Filter</p>	<p>FN 3280H-64-34</p>	
<p>Illustration 26: switch 400V / 480V</p>	<p>SA45-682-1</p>	
<p>Illustration 27: Main switch 63A</p>	<p>H406-41300-235N4</p>	

<p>Illustration 28: Power supply 120W 230VAC/ 24VDC</p>	<p>S8VS-12024</p>	
<p>Illustration 29: Transformator</p>	<p>N2,4-133.20</p>	


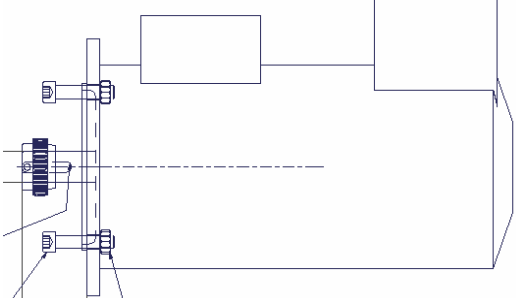

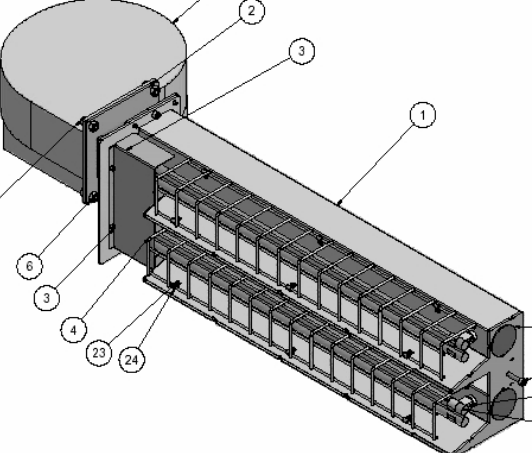
3.3 Fuses; Contactor; Relay

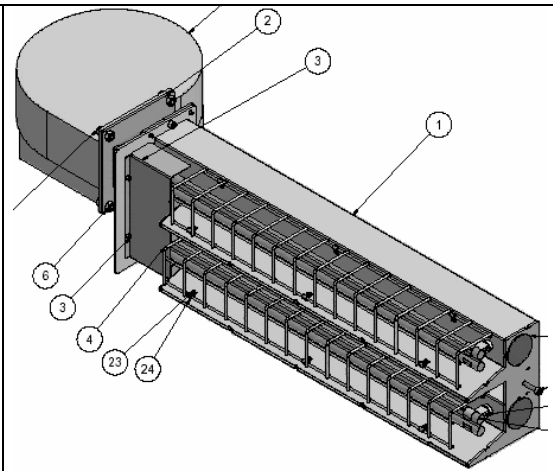
<p>Illustration 30: Solid state relay 180-528VAC, 3 x 45 Amp.</p>	<p>G3PB-545B-3N-VD</p>	
<p>Illustration 31: Solid state relay 24 VDC</p>	<p>G3R-IDZR-1SN</p>	
<p>Illustration 32: Socket for G3R-Solide state relay</p>	<p>P2RF-05-S</p>	
<p>Illustration 33: 24DCRelais 2 Relay 5A, 24VDC</p>	<p>G2R-2-SNDI (S)</p>	

<p>Illustration 34: Socket for G2R-Relays</p>	<p>P2RF-08-E</p>	
<p>Illustration 35: MY-relays</p>	<p>MY4-IN1-D2 24DC</p>	
<p>Illustration 36: SLC-Socket to MY</p>	<p>PYF14A-E</p>	
<p>Illustration 37: Contactor 11kW AC3, 50A AC1, 24VDC</p>	<p>J7KN-24 24DC</p>	
<p>Illustration 38: Contactor 4kW AC3, Us=24VDC</p>	<p>J7KN-10-10</p>	

<p>Illustration 39: Circuit breaker 3-pol, 40A, Type D</p>	<p>1492-SP3D400</p>	
<p>Illustration 40: Circuit breaker 2-pol, 13A, Type D</p>	<p>1492-SP2D130</p>	
<p>Illustration 41: Circuit breaker 1-pol, 6A, Type D</p>	<p>1492-SP1D060</p>	

3.4 Drive; Motor; Ventilator; IR-Lamp

<p>Illustration 42: Frequency converter 1 x 230 V, 0.55 kW</p>	<p>3G3MV-AB004</p>	
<p>Illustration 43: AC motor IEC80</p>	<p>B20 IL-2-2-090</p>	
<p>Illustration 44: Exhaust Blower Ø200</p>	<p>W2E200 -HH38-01</p>	
<p>Illustration 45: Cooling blower</p>	<p>G1G 170-AB53</p>	

<p>Illustration 46: IR-Lamp 4 kW</p>	<p>8000.4821</p>	 <p>The diagram shows an exploded view of a 4 kW IR lamp assembly. It consists of a main lamp body (1) with a series of internal lamp tubes. A mounting bracket (2) is shown above the lamp body, and a protective cover (3) is shown below it. Other components include a base plate (4), a mounting rail (6), and various screws and fasteners (3, 23, 24).</p>
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3.5 Sensor

<p>Illustration 47: Fiber optic amplifier, 20uSek.</p>	<p>E3X-MDA41 2m</p>	
<p>Illustration 48: Fiber optic</p>	<p>E32-G14</p>	
<p>Illustration 49: Web break sensor M18, 30 cm, 2m cable</p>	<p>E3F2-R2B4-2m</p>	
<p>Illustration 50: Initiator M8, short form</p>	<p>E2A-S08KS02-WP-B1</p>	
<p>Illustration 51: Air flow sensor</p>	<p>D5B-1513</p>	

Illustration 52:
Thermal safety switch dryer
over temperature

377-5598



3.6 Plug



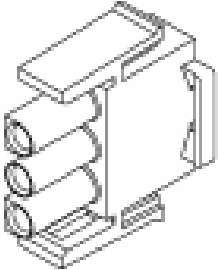

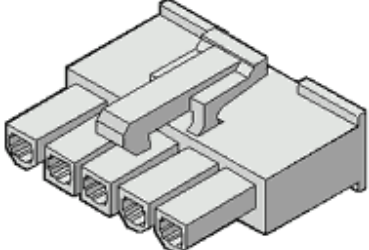
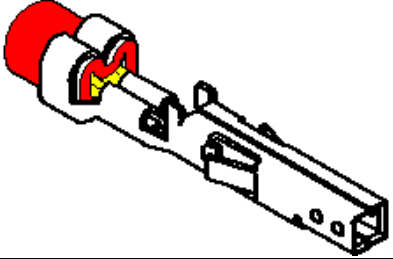
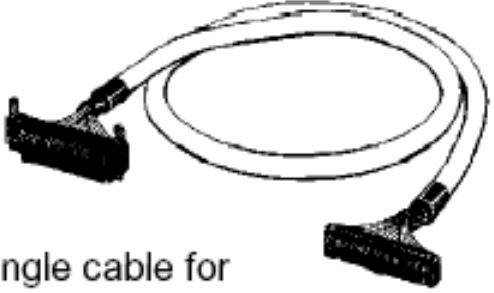




<p>Illustration 53: connector IEC320</p>	<p>110436</p>	
<p>Illustration 54: Plug IEC320 straight</p>	<p>111260</p>	
<p>Illustration 55: Connector IEC320</p>	<p>112362</p>	
<p>Illustration 56: Plug MATE-N-LOK 3polig</p>	<p>113178</p>	
<p>Illustration 57: Socket MATE-N-LOK, 0.5- 2.1mm²</p>	<p>116505</p>	
<p>Illustration 58: Plug</p>	<p>39-01-4050</p>	

Illustration 59: Contact bushing	39-00-0039	
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3.7 Different Things

<p>Illustration 60: 45mm Safety module T=0.5-7.5 Sec</p>	<p>G9SA-321-T075</p>	
<p>Illustration 61: Communication cable 37pin, 15 meter</p>	<p>Comcab37pin</p>	
<p>Illustration 62: Communication cable 15pin, 15 meter</p>	<p>Comcab15pin</p>	
<p>Illustration 63: Communication cable unwind / rewind unit, 15 meter</p>	<p>Comcabunrew</p>	

<p>Illustration 64: Cable, 1 m, for XW2B-40Gx</p>	<p>XW2Z-100K</p>	 <p>Single cable for 32- and 64-point I/O modules</p>
<p>Illustration 65: Fresh Air Ventilator 230V (UL/CSA) 105m3/h</p>	<p>3323.100</p>	
<p>Illustration 66: Air filter</p>	<p>3323.200</p>	
<p>Illustration 67: Yellow Plate</p>	<p>A16Z-5070</p>	
<p>Illustration 68: Lamp cap green, round</p>	<p>A16L-TG</p>	
<p>Illustration 69: Lamp cap blue, round</p>	<p>A16L-TA</p>	
<p>Illustration 70: Case, round</p>	<p>A16-CTM</p>	
<p>Illustration 71: Lamp 24VDC</p>	<p>A16-24</p>	
<p>Illustration 72: Switch unit, 1 contact</p>	<p>A16-1</p>	
<p>Illustration 73: Buzzer 24VDC</p>	<p>M2BJ-B24</p>	

<p>Illustration 74: E-Stop button, 2 contact</p>	<p>A165E-S-02</p>	
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