Names and Functions of Parts

Front

1. Front Panel
   - You can replace the front panel to match the color of your computer. For details, see “Replacing the Front Panel and Eject Button”.

2. Floppy Disk Busy Indicator
   - When data on a floppy disk is accessed, the indicator lights.

3. Floppy Disk Slot
   - Insert the floppy disk here.

4. Eject Button
   - Press this button to remove the floppy disk. You can replace the eject button to match the color of your computer. For details, see “Replacing the Front Panel and Eject Button”.

Rear

1. Power Connector
   - Connect to the power connector on your computer’s power supply.

2. Signal Interface Connector
   - Connect to the floppy disk drive interface cable.

Usage Notes

Do not dismantle, repair, or alter the drive yourself.
Do not use the drive in any circumstances, attempt to dismantle, repair, or alter the drive yourself. You may not only permanently damage the drive and/or your computer, but may also cause fire or personal injury through electrical shock.

Operating and storage environments

- Do not place the drive close to heat sources or in direct sunlight; place it in shady, dirty, or humid locations; place it under precipitation such as rain, or leave it in a vehicle with the windows closed.
- If the drive interferes with the reception of radio or television signals, move the drive away from the radio or television.
- When using the drive, do not wrap it in cloth, sheets or covers as this may be the cause of malfunctions or fire.

WARNING

You are warned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Replacing the Front Panel and Eject Button

Front panels and eject buttons in alternate colors (granite and mat black) are included for use with different computer case colors. If you want, replace the standard mist white front panel and eject button with one of the replacements, as follows.

1. Holding the drive face front, gently pull the right side of the front panel as illustrated, then remove the panel.
2. To remove the eject button, pull out the eject button. To install the eject button, align the eject button with the pin and push until it is fully inserted.
3. To install the new front panel (left side first, as illustrated), then push the right side until you hear a click.

System Requirements

The drive can be used with a computer with the following specifications:

- IBM PC-compatible system
- RAM 4 MB or more
- Windows or DOS operating system

- 3½ in., 1.44 MB floppy disk-computer system
- Floppy disk drive controller or connector
- Floppy disk drive interface cable

List of Accessories

When you unpack the carton, make sure that it contains all the accessories listed below.

- MPF920-Z (mist white front panel and eject button)
- Front Panels (granite and mat black)
- Eject Buttons (granite and mat black)
- User’s Guide
- Warranty Card

Installing the Drive

1. Unplug your computer from the AC power outlet.
2. Remove the cover from your computer.
3. Locate the following cables:
   - Floppy disk interface cable: flat, “ribbon” type cable with 34-pin female connector.
   - Power cable: two or four separate wires attached to a single 4-pin female connector.
4. Install the drive into an available drive bay.
5. Connect the floppy disk interface cable to the signal interface connector at the rear of the drive, as illustrated.
6. Connect the power cable to the power connector, as illustrated.
7. Reinstall the cover on your computer.
8. Plug your computer to the AC power outlet.
9. Start your computer.

Introduction

The MPF920-Z, hereafter referred to as the “drive”, has the following features:

- Easy to install
- Superior design and construction
- Reversible front panel

Notes

- Make sure that the pin #1 indicator strip of the floppy disk interface cable (usually red or blue) is aligned with pin #1 of the 34-pin female connector at the rear of the drive.
- To assign the drive as your computer’s A: drive, connect connector A to the signal interface connector. To assign the drive as your computer’s B: drive, connect connector B to the signal interface connector. Make the appropriate changes to the CMOS BIOS.
- Do not attempt to dismantle, repair, or alter the drive yourself.
- You may not only permanently damage the drive and/or your computer, but may also cause fire or personal injury through electrical shock.
- The drive is automatically detected. You do not need to install any device drivers.

Power Connector Pin Assignments (El Connector)

Pin No. Signal
1 +5 V
2 IN
3 NOT CONNECTED
4 NOT CONNECTED
5 GROUND
6 NOT CONNECTED
7 INDEX
8 NOT CONNECTED
9 NOT CONNECTED
10 NOT CONNECTED
11 GROUND
12 DRIVE SELECT 1
13 GROUND
14 GROUND
15 GROUND
16 MOTOR ON
17 DIRECTION
18 STEP
19 WRITE GATE
20 READ DATA
21 TRACK 0
22 DRIVE SELECT 0
23 GROUND
24 NOT CONNECTED
25 HEAD 1 SELECT
26 HEAD 0 SELECT
27 WRITE PROTECT
28 NOT CONNECTED
29 NOT CONNECTED
30 HEAD 1 SELECT
31 HEAD 0 SELECT
32 NOT CONNECTED
33 HEAD 1 SELECT
34 HEAD 0 SELECT
35 NOT CONNECTED
36 NOT CONNECTED
37 NOT CONNECTED
38 NOT CONNECTED
39 NOT CONNECTED
40 NOT CONNECTED
41 NOT CONNECTED
42 NOT CONNECTED
43 NOT CONNECTED
44 NOT CONNECTED
45 NOT CONNECTED
46 NOT CONNECTED
47 NOT CONNECTED
48 NOT CONNECTED

Notes

- Do not, under any circumstances, attempt to dismantle, repair, or alter the drive yourself. You may not only permanently damage the drive and/or your computer, but may also cause fire or personal injury through electrical shock.
- Failure to do so may result in electric shock.
- Before installing the drive, turn off your computer and unplug it from the AC power outlet. Failure to do so may result in electric shock.

List of Accessories

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33 HEAD 1 SELECT
34 HEAD 0 SELECT
35 NOT CONNECTED
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37 NOT CONNECTED
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40 NOT CONNECTED
41 NOT CONNECTED
42 NOT CONNECTED
43 NOT CONNECTED
44 NOT CONNECTED
45 NOT CONNECTED
46 NOT CONNECTED
47 NOT CONNECTED
48 NOT CONNECTED
### Specifications

<table>
<thead>
<tr>
<th>Floppy drive disk</th>
<th>Compatible disks</th>
<th>3.5 in. (90 mm) 1.44 MB</th>
<th>3.5 in. (90 mm) 2.88 MB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td>Interface</td>
<td>1.25 W (normal operation)</td>
<td>Approx. 430 g (0.95 lb)</td>
</tr>
<tr>
<td>Mass</td>
<td>34-pin signal interface</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Compatible floppy disks

The following floppy disks can be used with the drive:

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Format</th>
<th>Writing</th>
<th>Windings</th>
<th>Pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZIP</td>
<td>1.44 MB</td>
<td></td>
<td></td>
<td>34B</td>
</tr>
<tr>
<td>32X</td>
<td>1.2 MB</td>
<td></td>
<td></td>
<td>34B</td>
</tr>
</tbody>
</table>

### Handling notes

- Make sure that you take the following precautions when handling floppy disks to ensure the safety of your data.
- Do not place floppy disks close to strong magnetic fields such as those generated by speakers or televisions, as this could cause loss of data.
- Do not place floppy disks close to heat sources or in direct sunlight as this may warp the floppy disk, making it unusable.
- Do not open the floppy disk shifter or touch the disk surface. Dirt or scratches on the disk surface may make reading and writing impossible.
- Avoid dropping liquids on floppy disks.
- To prevent important data, remove floppy disks from the drive and store them in a case when they are not being used.

### About Floppy Disks

To prevent accidental loss of important data, use the write-protect switch on floppy disks. When you slide the switch to the write-protect position, you can read data on floppy disks, but it is impossible to write or delete data.

### Troubleshooting

Before consulting your Sony representative, verify the following. If you are still unable to identify or solve your problem, consult your retailer or Sony representative:

#### Problem
- The computer does not detect the drive.
- The floppy disk busy indicator does not light when reading or writing data.
- The type of the drive is not detected properly upon startup.
- Breakout media or bad Track 000 when formatting.
- The same contents are displayed for different floppy disks.
- Drive not ready error when reading from drive X (where X is the letter of the drive).
- General failure error when reading from drive X (where X is the letter of the drive).
- Sector not found error.

#### Cause/Solution
- Your computer and the drive may not be properly connected. Disconnect the drive from the computer and reconnect it.
- The floppy disk drive interface cable, power cable may not be properly connected, or the CMOS configuration is incorrect. Verify the connections and CMOS configuration.
- As soon as the computer is turned on, the floppy disk busy indicator lights and stays lit.
- The CMOS configuration may be incorrect. Verify the CMOS configuration for drive type: 3.5 in. 1.44 MB.
- The drive controller configuration may be incorrect. Refer to the drive controller documentation to verify its configuration.

### About Floppy Disks

#### Handling notes

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### Technical Support

Please consult the above sources before calling with questions about using MPF920-Z or with technical questions about the drive or the supplied software. If using telephone or e-mail support, please have the following information available:

- Model number: MPF920-Z
- Serial number
- Date and place of purchase
- Computer maker and model number
- Computer specifications (CPU speed, memory size, OS version, etc.)

Local technical support is available only in the following sales regions:

- For Customer in the USA (Sony Electronics Inc):
  - Toll free: 1-800-588-3647
  - Website: http://www.sony.com
- For Products purchased in Australia or New Zealand (Sony Australia Limited):
  - Toll free: 1300-13-7669 or International 61-2-9887-6666
  - Website: http://www.sony.com.au
- For Customer in the USA (Sony Electronics Inc):
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### Warranty Card & After Sales Service

#### Warranty Card

- A warranty card should be provided with this product at the place of purchase.
- Please read the warranty card, fill in the specified information, and retain it for future reference.
- The warranty period is one year from the date of purchase.

#### After Sales Service

**Reparis under warranty**

We provide repair services as described in this guide and on the warranty card. Please contact your supplier or repair service provider for details.

**Repairs outside the warranty**

- If the drive needs repairs, return it to the place of purchase or your repair service provider.
- If you return the drive to the place of purchase or your repair service provider because of damage resulting from misuse or other causes, you are responsible for all repair-related expenses, including shipping, handling, and product adjustments.

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**Legal information**

- Copyright laws prohibit the copying of all or part of the User’s Guide, or with technical questions about the drive or the supplied software.
- Our product guarantee is valid only when the supplied accessories (including software) are used in the specified or recommended system environment, in accordance with this User’s Guide, and applies only to this floppy disk drive. Our customer service and user support apply only under these product guarantee conditions.
- Please note that we cannot accept responsibility for failure of the computer or other devices, incompatibility with special hardware, operating problems caused by improper installation of software, loss of data, or other accidental or incidental damage that might occur when using this product.
- The Guarantee and user support for this product are valid only within the countries or sales regions specified on the warranty card.

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**Contact information**

- Monday to Saturday 8:00 a.m.- 8:00 p.m. CT
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