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**CALCA Crystaljet 4000**

# CALCA Crystaljet 4000 Positive Pressure Control Board User Manual

Model: Crystaljet 4000 | Brand: CALCA

## 1. Product Overview

The CALCA Crystaljet 4000 Positive Pressure Control Board is a critical component designed for the Crystaljet 4000 printer series. This board manages the positive pressure system within the printer, ensuring optimal ink delivery and print head performance. It is an original factory-made part, engineered for reliability and long operational life.
Manufacturer Part Number: 16388

## 2. Safety Information

Always disconnect power to the printer before installing or removing any components. Wear appropriate personal protective equipment (PPE) if required. Handle electronic components with care to avoid electrostatic discharge (ESD) damage. Only qualified personnel should perform installation and maintenance procedures.

## 3. Installation Guide

This section outlines the general steps for installing the Positive Pressure Control Board. Refer to your specific Crystaljet 4000 printer service manual for detailed, model-specific instructions and diagrams.

1. **Preparation:** Ensure the printer is powered off and unplugged from the main power source. Open the printer's access panel to locate the existing control board or the designated installation area.
2. **Removal (if replacing):** Carefully disconnect all cables and connectors from the old control board. Note the orientation and connection points for reinstallation. Unscrew and remove the old board.
3. **Installation of New Board:** Position the new CALCA Crystaljet 4000 Positive Pressure Control Board in the designated slot. Secure it with screws, ensuring it is firmly seated.
4. **Connection:** Reconnect all cables and connectors to the new board. Ensure each connection is secure and correctly oriented. Pay close attention to power, data, and pressure sensor connections.
5. **Verification:** Double-check all connections for proper seating and orientation. Close the printer's access panel.
6. **Power On:** Plug the printer back into the power source and power it on. Observe for any error messages or unusual behavior.

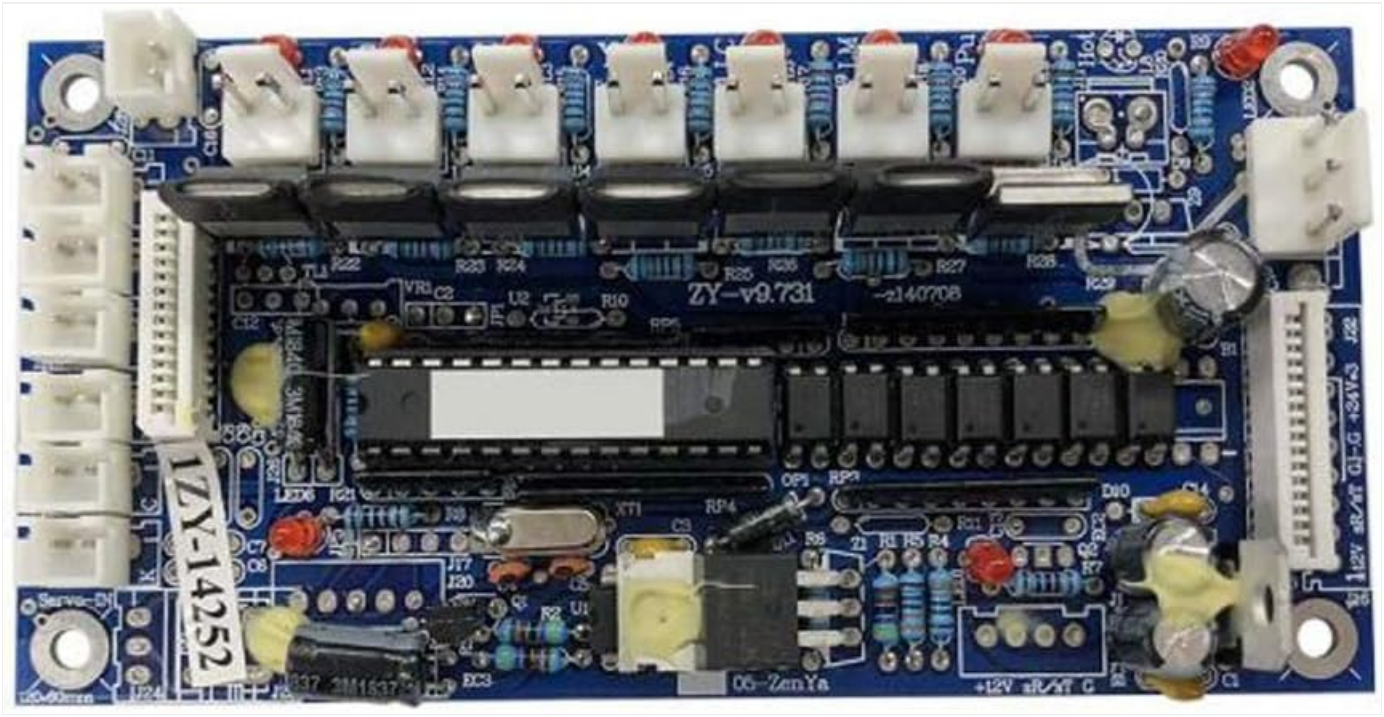



*Figure 1: Top view of the CALCA Crystaljet 4000 Positive Pressure Control Board, showing various components, connectors, and integrated circuits.*

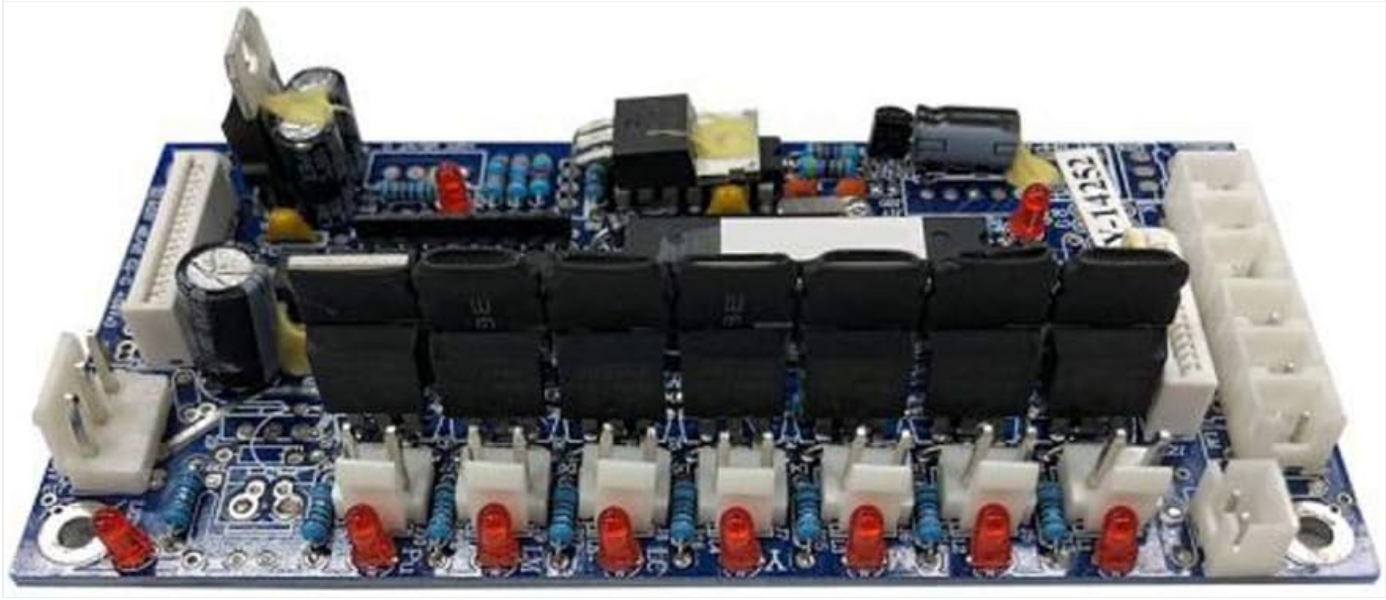


*Figure 2: Angled view of the control board, highlighting the row of white connectors and red indicator lights.*

## 4. Operating Principles

The Positive Pressure Control Board is an integral part of the printer's ink delivery system. It regulates the positive pressure applied to the ink system, which is crucial for preventing ink leaks, ensuring consistent ink flow to the print heads, and maintaining print quality. The board receives signals from the printer's main control unit and adjusts pressure levels accordingly. Proper functioning of this board is essential for the stable operation of the Crystaljet 4000 printer.

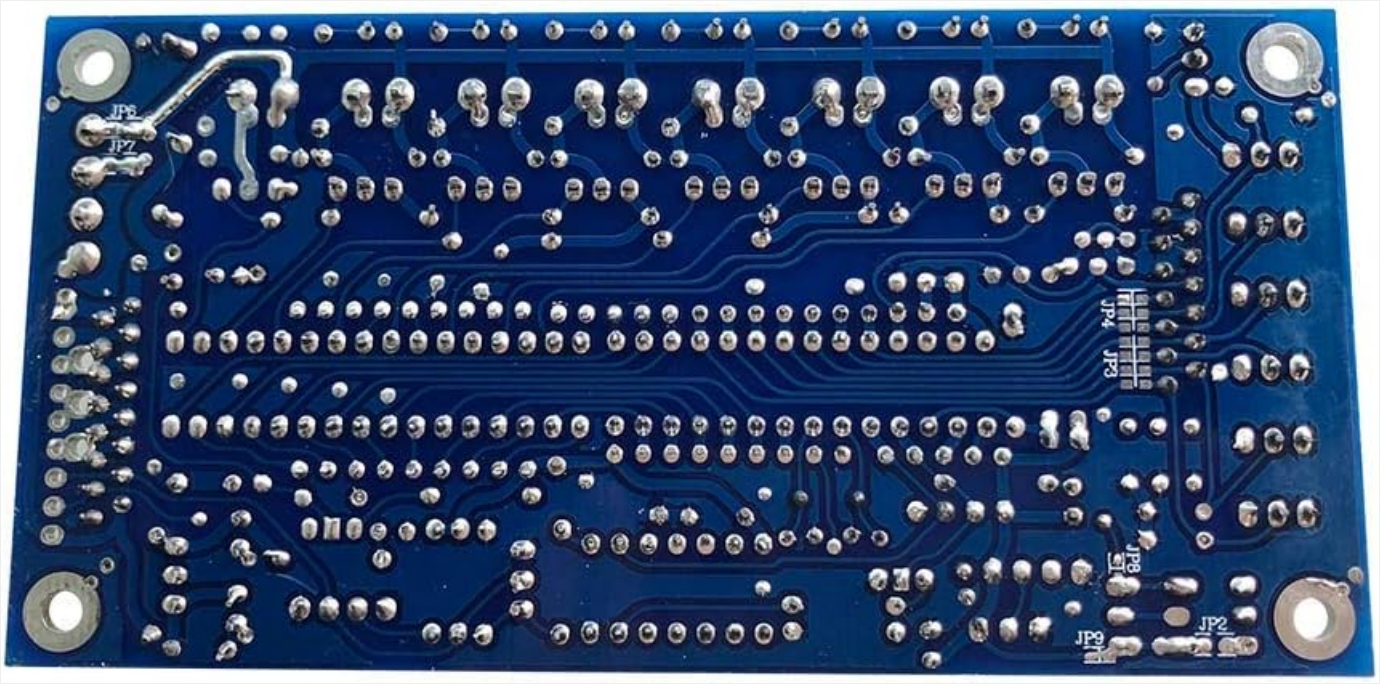



*Figure 3: Bottom view of the control board, showing the solder points and circuit traces.*

## 5. Maintenance

The CALCA Crystaljet 4000 Positive Pressure Control Board is designed for minimal maintenance. However, periodic inspection can help ensure its longevity and proper function.

- **Visual Inspection:** Periodically inspect the board for any signs of physical damage, corrosion, or loose connections. Ensure all components are securely attached.
- **Cleaning:** If necessary, gently clean the board with a soft, dry, lint-free cloth. Avoid using liquids or abrasive materials. Ensure the printer is powered off and unplugged before cleaning.
- **Environment:** Operate the printer in a clean, dry environment, free from excessive dust, humidity, and extreme temperatures, to protect electronic components.

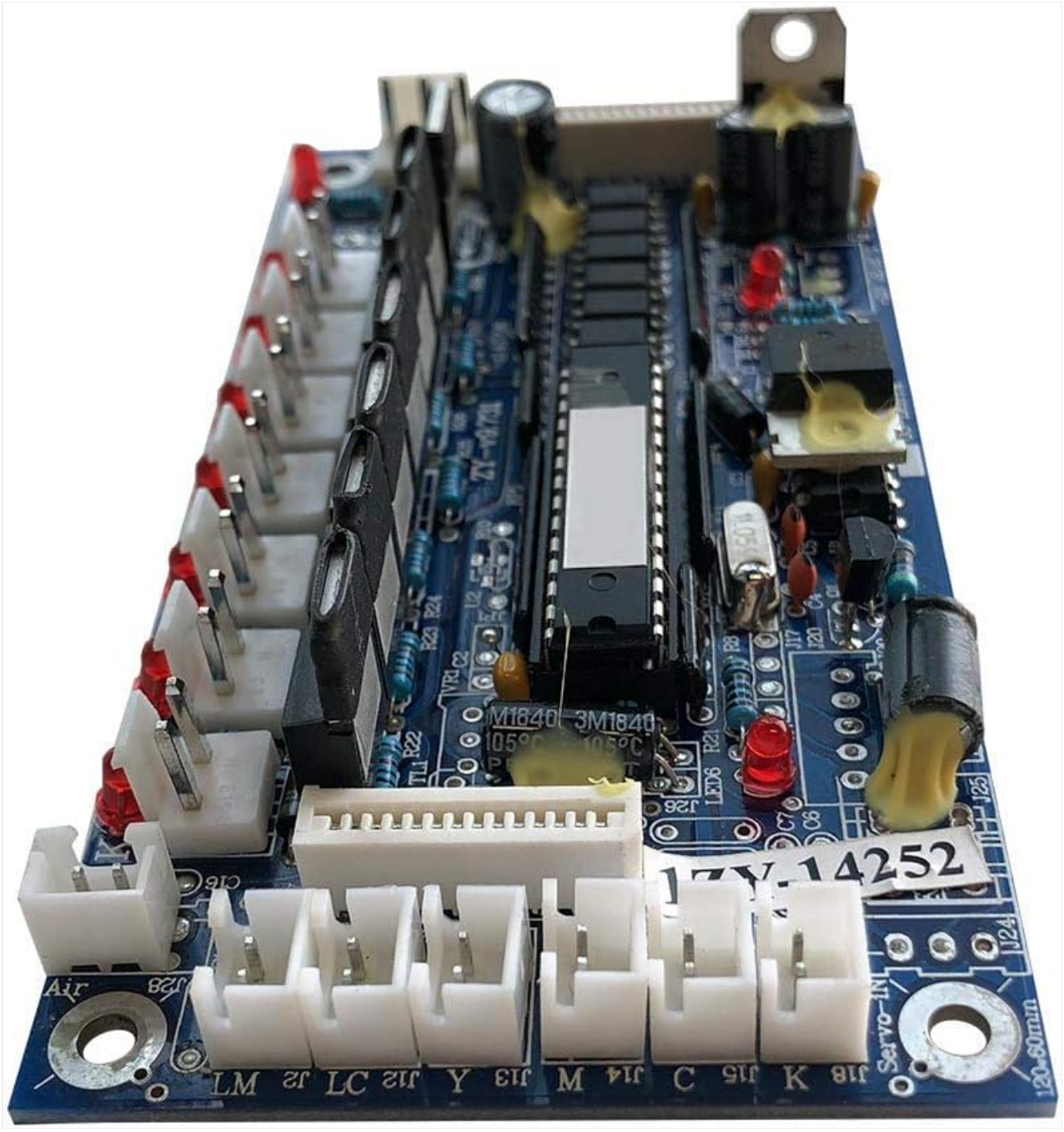



*Figure 4: Side view of the control board, showing the vertical orientation of some connectors and components.*

## 6. Troubleshooting

If you experience issues related to the positive pressure system or general printer operation after installing this board, consider the following troubleshooting steps:

- **Check Connections:** Ensure all cables and connectors are firmly and correctly attached to the control board and other printer components.
- **Power Cycle:** Turn off the printer, unplug it, wait for 30 seconds, then plug it back in and power it on. This can resolve temporary electronic glitches.
- **Printer Error Codes:** Consult your Crystaljet 4000 printer's main manual for specific error codes related to the pressure system or control board.
- **Component Integrity:** Visually inspect the board for any burnt components, swollen capacitors, or other signs of damage. If damage is observed, the board may need replacement.
- **Professional Assistance:** If issues persist, contact a qualified printer technician or CALCA customer support for

further diagnosis and repair.

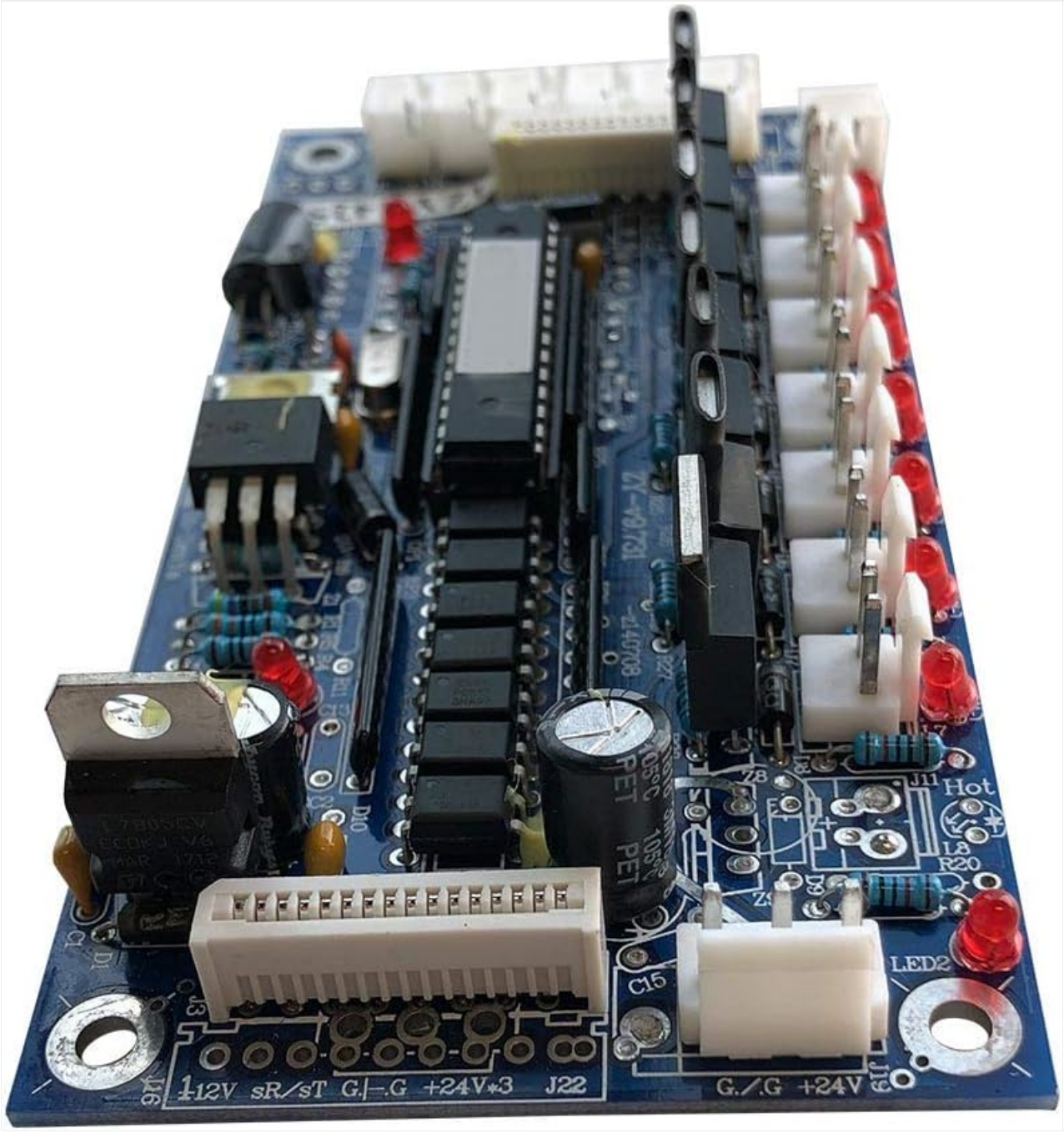



*Figure 5: An alternative angled view of the control board, providing a different perspective on the component layout.*




*Figure 6: Front view of the control board, showing the main integrated circuit and surrounding components.*

## 7. Specifications

| Feature | Detail |
|---|---|
| **Brand** | CALCA |
| **Model** | Crystaljet 4000 Positive Pressure Control Board |
| **Manufacturer Part Number** | 16388 |
| **Printer Compatibility** | Crystaljet 4000 |
| **Item Weight** | 3.87 ounces |
| **ASIN** | B086X164H2 |
| **Date First Available** | April 9, 2020 |

## 8. Warranty Information

Specific warranty details for the CALCA Crystaljet 4000 Positive Pressure Control Board are typically provided at the point of purchase or included with the product packaging. Please refer to your purchase documentation or contact CALCA customer support for comprehensive warranty terms and conditions.

## 9. Customer Support

For technical assistance, inquiries regarding installation, operation, or troubleshooting, please contact CALCA customer support. Refer to the contact information provided with your product or visit the official CALCA website for support resources.

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