This document contains important safety information
Be sure to read and follow all safety information in this
document and any other related documentation.

ATTENTION:
Read before installing system
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Address all correspondence to:
Nordson Corporation
Attn: Customer Service
11475 Lakefield Drive
Duluth, GA 30097

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ProBlue Fulfill Integrated Fill System

WARNING! Allow only personnel with appropriate training and experience to operate or service the equipment. The use of untrained or inexperienced personnel to operate or service the equipment can result in injury, including death, to themselves and others, and damage to the equipment.

Manual Coverage
This manual provides information specific to the installation, operation, and troubleshooting of the integrated fill sub-system (Fulfill) incorporated into your ProBlue adhesive melter.

NOTE: The information provided in this manual assumes that you are installing a new Fulfill melter, as opposed to replacing an existing ProBlue melter.

Getting Started

Step 1—Refer to the installation guide provided with the melter for information about installing the melter (steps 1 through 5 in the installation guide).

Step 2—Refer back to this manual for information about installing the fill system.

Step 3—Refer to the Operation section of both the melter manual and this manual for information about operating your melter and the fill system.
Restrictions to System Use

Before installing the fill system, ensure that your application DOES NOT require:

- the transfer of solid-formed adhesive material greater than 12 mm across the largest dimension.
- the use of more than two user-configured inputs. The Fulfill system is equipped with only two user inputs. If your application requires more than two user inputs, please order the optional input/output expansion card kit, part 1036607.
- the use of more than one user-configured output. The Fulfill system is equipped with only one user output. If your application requires more than one user output, please order the optional input/output expansion card kit, part 1036607.
- the future expansion of hose/gun capacity using the optional 8-hose/gun expansion base available from Nordson Corporation. The Fulfill system does not support the use of this option.
- the future conversion of the system to 480V power using the optional transformer base option available from Nordson Corporation. The Fulfill system does not support the use of this option at this time.
Introduction

Product Description

The Fulfill system extends proven ProBlue adhesive melter technology by providing automatic delivery of solid-formed adhesive to the melter tank.

Safety

Before installing and operating the fill system, read the safety information provided in the melter product manual in Section 1, Safety.

Intended Use

• Same as the melter. Refer to the melter manual.

Unintended Use

• Same as the melter. Refer to the melter manual.

Melter Firmware Requirements

Operation of the expansion base requires that melter firmware version 2.025 or later be installed in the melter. Firmware updates are available from www.enordson.com/support.
Installation

Before installing the fill system, familiarize yourself with Section 3, *Installation*, in the melter manual.

Installation Clearances

Figure 1  Minimum installation clearances (top and side views shown; refer to Table 1)
Table 1 Installation Clearances (see Figure 1)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Required Clearance</th>
</tr>
</thead>
</table>
| A    | The distance from the outside edge of a 5/16-in. Nordson hose to the front face of the melter when a short 90-degree hose fitting is used to connect the hose to the melter | P4 = 370 mm (14.5 in.)  
P7 = 370 mm (14.5 in.)  
P10 = 391 mm (15.4 in.) |
| B    | The clearance required to open the pump enclosure door                       | P4 = 243 mm (9.6 in.)                   |
|      |                                                                             | P7 = 243 mm (9.6 in.)                   |
|      |                                                                             | P10 = 268 mm (10.55 in.)                |
| C    | The distance from the melter sub-base to the top surface of the tank lid when it is closed. | P4 = 641 mm (25.24 in.)  
P7 = 638.8 mm (25.15 in.)  
P10 = 727.9 mm (28.66 in.) |
| D    | The clearance required on the left side of the melter to open the electrical enclosure door or remove a hose/gun module. | P4 = 648 mm (25.5 in.)  
P7 = 711 mm (28.0 in.)  
P10 = 714 mm (28.1 in.) |
| E    | The clearance required to access the fill system filter.                    | All = 50.8 mm (2.00 in.)                |
| F    | The clearance required to open the tank lid.                                | P4 = 895.9 mm (35.27 in.)               |
|      |                                                                             | P7 = 977.7 mm (38.49 in.)               |
|      |                                                                             | P10 = 974 mm (38.35 in.)                |
| G    | The clearance required to open the tray.                                    | All = 731.4 mm (28.79 in.)              |
Installation Components

In addition to the components contained in the melter installation kit, the Fulfill system is shipped with the components illustrated in Figure 2.

Figure 2    Fulfill system components shipped inside the adhesive storage bin

1. Adhesive storage bin
2. Transfer hose
3. Suction lance
4. Hose clamp (2)
5. Air line (4m)
6. Wire tie (5)
Assemble the Transfer Hose, Air Line, and Suction Lance

1. Using one hose clamp, attach the transfer hose (A) to the end of the suction lance (B).
2. Insert the suction lance into the adhesive storage bin.
3. Use the remaining hose clamp to attach the transfer hose to the feed system inlet tube (C).
   **NOTE:** If necessary, loosen the inlet tube retaining screw and reposition the inlet tube.
4. Connect the air line (D) to the suction lance air inlet (E).
5. Route the air line along the transfer hose, securing it with wire ties as you go.
6. Leaving enough air line to reach the outlet (G) of the air solenoid, cut the air line to length and then insert the end of the air line into the outlet.
7. Connect a regulated, clean, dry air supply to the solenoid valve inlet (F). The air supply must be capable of supplying 50–80 psi (3.45–5.51 bar) at 24 scfm.

**Figure 3**  Assembling the transfer hose, air line, and suction lance

*Note:* Due to the solenoid layout, the inlet and outlet air fittings are reversed from the prior Fulfill controls tray design.
Test the Fill System

The melter is shipped from the factory preprogrammed for automatic refill operation. The factory settings that control the operation of the fill system can be adjusted by the user to meet specific application requirements. Refer to Adjust the Fill System.

To test the system
1. Manually fill the tank with solid adhesive.
2. Ensure that the tank lid is closed.
3. Switch the melter on.
4. Enable the fill system by pressing the fill system power key.
   The green LED turns on indicating that the fill system is enabled.
5. Allow the fill system to fill the tank with solid adhesive, and then allow the adhesive to melt.
6. Run your production application.
7. Monitor the frequency and the volume of adhesive delivered to the tank. To ensure that there is sufficient molten adhesive to supply your production application, it is preferable to have adhesive delivered to the tank in small batches (less than \( \frac{1}{8} \) of the tank volume) rather than infrequent large batches.
8. (Optional) If adhesive is clogging in the inlet air deflector, remove the deflector. Refer to Remove the Inlet Air Deflector (Optional).
9. (Optional) If you need to adjust the performance of the fill system, refer to Adjust the Fill System.
10. When you are satisfied that the fill system is operating correctly, save all of the current melter settings into memory by simultaneously pressing the number 1 key and the Setup key.
Remove the Inlet Air Deflector (Optional)

The inlet air deflector redirects the incoming air away from the tank surface. The deflector is an optional part that is used in most applications in which the adhesive in the top of the tank stays primarily or fully molten. In applications with higher adhesive usage rates in which there is a mound of unmolten adhesive at the top of the tank, the deflector can be removed to prevent adhesive from the clogging the inlet.

**NOTE:** The deflector redirects incoming air away from tank surface.

See Figure 4. To remove the inlet air deflector, open the lid and remove the deflector and hardware.

![Figure 4](image-url)
Adjust the Fill System

Two user-adjustable settings control the operation of the fill system. These are:

**Flutter Delay**—The continuous time delay (in seconds) between when a tank low level condition is detected and when the fill system activates. The factory-default setting for flutter delay is 90 seconds. The maximum setting is 1,200 seconds.

The higher the adhesive consumption rate of your application, the shorter the flutter delay should be.

**Fill Time**—The time allowed (in seconds) for the fill system to attempt to fill the tank before the refill alarm is activated. The factory default setting for fill time is 20 seconds. The maximum setting is 1,200 seconds.

The shorter the flutter delay, the shorter the fill time should be.

**NOTE:** The tank sensor was preset at the factory and should not require user adjustment. However, if your application requires that the sensor be adjusted, refer to *Troubleshooting* for information about calibrating the sensor.

To adjust the fill system

1. Press the **Setup** key.
   - The left display flashes parameter 1.
2. Using the numeric keypad, enter 47 to select flutter delay or enter 48 to select fill time.
   - **NOTE:** If you incorrectly enter the parameter number, press the **Clear/Reset** key to return to parameter 1 and then re-enter the correct parameter number.
3. Press the **Enter** key.
4. Using the numeric keypad, enter the new value for flutter delay or fill time.
5. Press the **Enter** key.
6. Press the **Setup** key to exit the setup mode.
7. Re-test the system.
8. When you are satisfied that the fill system is operating correctly, save all of the current melter setting into memory by simultaneously pressing the number **1** key and the **Setup** key.
Adjust the Level Sensor (Optional)

The level sensor is factory-set to transmit a Tank Level Low signal when the adhesive level in the tank is between the Tank Level Satisfactory and the Tank Level Low points. The transition point between Tank Level Satisfactory and Tank Level Low can be adjusted using the level sensor amplifier, which is located inside the electrical enclosure. Follow this procedure as needed to adjust the level sensor amplifier.

See Figure 5. For monitoring purposes, the level sensor light (1) located to the left of the adjustment screw (2) indicates whether the adhesive level is satisfactory or low:

- Amber light = Tank Level Satisfactory
- Green light = Tank Level Low

**To adjust the level sensor amplifier**

1. Open the electrical enclosure.
2. Remove the plug that covers the adjustment screw.

Figure 5  Location of the level sensor amplifier light and adjustment screw

1. Level sensor light
2. Level adjustment screw (covered by plug)
Adjust the Level Sensor (Optional) (contd)

3. Turn the adjustment screw as follows to make adjustments:
   - Counterclockwise (CCW) — raises the adhesive level at which the system detects a low level condition.
   - Clockwise (CW) — lowers the adhesive level at which the system detects a low level condition

**NOTE:** See Figure 6. Adjusting the screw too far counterclockwise or clockwise will result in a condition where the sensor sees only a permanent overfill or empty state, regardless of the actual level of adhesive in the tank.

4. Reinstall the plastic plug that covers the adjustment screw, close the electrical enclosure, and restore the system to normal operation.
Operation

Once enabled, the fill system immediately begins operation. All that is required to maintain automatic refill operation is to maintain the level of adhesive in the adhesive storage bin.

Monitoring Refill Operation

See Figure 7.

Under normal conditions, there is no need for the operator to monitor or intervene in the operation of the fill system.

However, if the fill system is unable to satisfy the tank sensor in the time limit set for the Fill Time (parameter 48), the klaxon alarm will sound, the refill alarm LED will illuminate, and the melter display will indicate “rE FILL.”

Refer to the next procedure, Clearing the Refill Alarm, to clear a refill alarm. Refer to Troubleshooting for information about diagnosing and correcting potential fill system problems.

Figure 7 Fill system controls and indicators

1. Fill system power key and LED
2. Filling activated symbol and LED
3. Refill alarm symbol and LED
4. Klaxon (audible)
Clearing the Refill Alarm

1. Ensure that the fill system power LED is illuminated.
2. Press the Enter key to silence the alarm.
3. Correct the fault condition.
4. Press the Clear/Reset key.
Troubleshooting

ATTENTION:

The following two conditions will disable the fill system:

- performing a factory reset of the melter to standard ProBlue settings
- replacing the CPU board

If either of these conditions exist, you will need to restore the settings that control the integrated fill functionality of your melter. Refer to Restoring ProBlue Fulfill Factory Settings later in this section.

If the fill system fails and the condition cannot be corrected (failed sensor, etc.), a persistent melter “rE FILL” fault will be present. To continue operating the melter (and filing it manually), do one of the following:

- Disable the fill system (ensure that the fill system power key LED is not illuminated)
- Perform a factory reset so that the melter will no longer be operating as a “Fulfill” melter. Refer to Returning the Melter Setup to Factory Settings in the Troubleshooting section of the standard ProBlue manual.

After the factory reset is performed, the klaxon and refill LED will activate because of the software change. To disable them, change parameters 40 and 41 to 0. Refer to the melter manual as needed to change parameter values.

To restore the melter to Fulfill functionality, refer to Restoring ProBlue Fulfill Factory Settings later in this section.

Refer to Section 6, Troubleshooting, in the melter manual for general melter troubleshooting information.
### Troubleshooting (cont'd)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
</table>
| **1. Refill alarm** | Adhesive storage bin empty  
Tank lid open  
Melter has been returned to standard ProBlue melter default settings | Refill the bin.  
Close the lid.  
Restore the settings that control the fill system. Refer to Restoring ProBlue Fulfill Factory Settings. |
| **2. Frequent unexplained refill alarms** | Dirty filter sock  
Air pressure too low  
Transfer hose partially blocked or bent  
Level sensor out of calibration  
Fill Time setting (parameter 48) too short | Change the filter sock.  
Check/adjust the air pressure to 60 psig.  
Unblock or straighten the transfer hose.  
Calibrate the level sensor. Refer to Calibrating the Level Sensor.  
Increase the Feed Time setting. |
| **3. Fill system stops working** | Parameter 31 or 32 disabled or changed  
Melter has been returned to standard ProBlue melter default settings | Set Parameter 31 to 17 and Parameter 32 to 18.  
Restore the settings that control the fill system. Refer to Restoring ProBlue Fulfill Factory Settings. |
| **4. Adhesive fines escape from filter housing** | Filter housing not properly secured  
Filter sock is missing or not correctly seated on tank collar | Check/fasten the filter housing latches (2).  
Check the sock. Correctly seat the sock inside the filter housing. |

### Restoring ProBlue Fulfill Factory Settings

There are two methods for restoring the melter to the ProBlue Fulfill factory settings: using the “restore saved settings” feature or re-entering the fill system operating parameters.

**To restore saved settings**

If you previously saved the melter settings, you can restore them by simultaneously pressing the number 2 key and the Setup key.
To re-enter the fill system parameters

Use the following procedure to re-enter the six parameters (see table below) that control the fill system.

1. Press the **Setup** key.
   
   The left display flashes parameter 1.

2. Using the numeric keypad, enter 40 to select the Feed Control parameter.
   
   **NOTE:** If you incorrectly enter the parameter number, press the **Clear/Reset** key to return to parameter 1 and then re-enter the correct parameter number.

3. Press the **Enter** key.

4. Using the numeric keypad, enter a value of 7 for Feed Control.
   
   **NOTE:** Parameter 40 (Feed Control) must be set to 7 before any other fill system parameters can be changed.

5. Repeat the programming sequence in steps 2–4 to enter the values shown in the table below for the other fill system parameters.

<table>
<thead>
<tr>
<th>Fill System Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>40—Feed Control</td>
<td>7</td>
</tr>
<tr>
<td>31—Low Level Signal</td>
<td>17</td>
</tr>
<tr>
<td>32—Fill Enable Signal</td>
<td>18</td>
</tr>
<tr>
<td>41—Klaxon/Alert Light</td>
<td>8</td>
</tr>
<tr>
<td>47—Flutter Delay</td>
<td>90 seconds (or user selected)</td>
</tr>
<tr>
<td>48—Fill Time</td>
<td>20 seconds (or user selected)</td>
</tr>
</tbody>
</table>

6. When you have re-entered all of the fill system parameters, press the **Setup** key to exit the setup mode.

   If you use the restore feature before the save feature is used for the very first time, the factory default setpoint temperatures will be restored. This will cause the hoses and guns to stop heating and cause a continuous refill alarm.

You can transfer melter settings from one melter to another using the Nordson Configuration Manager software utility.

Refer to the melter manual, Appendix C, *Melter Communications*
Calibrating the Level Sensor

1. Remove the plastic plug that covers the adjustment screw. The adjustment screw is located on the level sensor amplifier box.

2. Fill the tank with adhesive and allow the adhesive to fully melt until the level of molten adhesive is 15 mm above the bottom of the sensor.

3. Turn the adjustment screw clockwise or counterclockwise just until the LED changes from green to amber.

4. Turn the screw an additional $\frac{1}{2}$-turn clockwise. Calibration is now complete.

5. Reinstall the plastic plug (removed in step 1) on the adjustment screw.
Parts

This section provides information about parts that are associated with the fill system. Refer to the melter manual for information about all other melter components.

Using the Illustrated Parts Lists

To order parts, call the Nordson Customer Service Center or your local Nordson representative. Use these five-column parts lists, and the accompanying illustrations, to describe and locate parts correctly. The following chart provides guidance for reading the parts lists.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0000000</td>
<td>Assembly A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0000000</td>
<td>• Part of assembly A</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>- - - - -</td>
<td>• • Part of item 1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0000000</td>
<td>• • • Part of item 2</td>
<td>AR</td>
<td></td>
</tr>
<tr>
<td>NS</td>
<td>0000000</td>
<td>• • • • Part of item 3</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

NOTE A: Important information about item 1

AR: As Required

NS: Not Shown
Lid Assembly Parts

Figure 8  Lid assembly parts
<table>
<thead>
<tr>
<th>Item</th>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1082941</td>
<td>KIT, SERVICE, FILTER ENCLOSURE, FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1A</td>
<td>1081643</td>
<td>LATCH, DRAW, FILTER, FULFILL</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>1088282</td>
<td>FILTER, SOCK, FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1082942</td>
<td>KIT, SERVICE, SOCK FILTER, 5 PCS, FULFILL</td>
<td>—</td>
<td>B</td>
</tr>
<tr>
<td>3</td>
<td>1082168</td>
<td>ADAPTER, INLET TUBE, FULFILL</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>4</td>
<td>—</td>
<td>SCREW, M5x10, SOCKET HEAD CAP</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td>5</td>
<td>1083066</td>
<td>LID ASSEMBLY, P4, FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5A</td>
<td>1083067</td>
<td>LID ASSEMBLY, P7/P10, FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1081644</td>
<td>KEEPER, LATCH, FILTER, FULFILL</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td>7</td>
<td>1079633</td>
<td>BRACKET, HINGE, TANK COVER, P4, FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1079645</td>
<td>BRACKET, HINGE, TANK COVER, P7, P10, FULFILL</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**
A: This part is included if item 1 is ordered.
B: This kit includes 5 filters.
C: This part is included if item 5 is ordered.
Control Base Parts

Figure 9  Control base parts

<table>
<thead>
<tr>
<th>Item</th>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>—</td>
<td>1091009</td>
<td>KIT, SERVICE, CONTROLS TRAY, FULFILL</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1</td>
<td>1065325</td>
<td>SOLENOID, SATURN, BARE, L3, 24DC</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1090075</td>
<td>KIT, SERVICE, PWR SUPPLY, FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1062845</td>
<td>AUDIOALARM, PIEZO, CONTINUOUS, 6–28V, 2100HZ</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1088139</td>
<td>MEMBRANE, PANEL, XFMR BASE, FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1091008</td>
<td>KIT, SERVICE, TRAY PCA, FULFILL</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
This page intentionally left blank.
Miscellaneous System Parts

Figure 10  Miscellaneous system parts
<table>
<thead>
<tr>
<th>Item</th>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1081438</td>
<td>AMPLIFIER, SENSOR, RECHNER, FULFILL</td>
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<td></td>
</tr>
<tr>
<td>NS</td>
<td>1081439</td>
<td>CABLE, SENSOR, 1.05M, FULFILL, P4, 7, 10</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1082368</td>
<td>BRACKET, AMPLIFIER, FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1023299</td>
<td>LUG, 45, SINGLE, M5 x .032</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>—</td>
<td>NUT, HEX, M5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>—</td>
<td>WASHER, LOCK, SPLIT, M5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>—</td>
<td>NUT, HEX, M6</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>—</td>
<td>WASHER, LOCK, SPLIT, M6</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1081769</td>
<td>BRACE, PROBLUE FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1081511</td>
<td>SWITCH, LIMIT, SPDT, W-ROLLER, PNL-MNT</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>1081513</td>
<td>LEVER, LID SWITCH, FULFILL</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>11</td>
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<td>SCREW, SOCKET, M3 x 22</td>
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<td>12</td>
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<td>PROBE, SENSOR, RECHNER, FULFILL, P4, 7, 10</td>
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<td>13</td>
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<td>14</td>
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<td>SCREW, BUTTON HEAD, SOCKET, M5 x 6</td>
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<tr>
<td>15</td>
<td>—</td>
<td>WASHER, LOCK, SPLIT, M3</td>
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<tr>
<td>NS</td>
<td>771641</td>
<td>KIT, ADHESIVE STORAGE/PNEUMATIC COMPONENTS</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>NS</td>
<td>1079953</td>
<td>KIT, OPTIONAL STORAGE CONTAINER VIBRATOR</td>
<td>1</td>
<td>C</td>
</tr>
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</table>

NOTE  
A: Present on P4 units only.  
B: See Figure 2 for the components included in this kit.  
C: In the case of a difficult adhesive, this optional vibrator can be mounted on the adhesive storage container to vibrate the container wall when adhesive is being pulled into the melter.

NS: Not Shown

### Central Processor Unit (CPU)

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>1083686</td>
<td>Kit, service, central processor unit</td>
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<tr>
<td>- - - - -</td>
<td>• PCA, display/CPU</td>
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</tr>
<tr>
<td>- - - - -</td>
<td>• Stand-off, hex, M3 x 8 mm</td>
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</tr>
<tr>
<td>- - - - -</td>
<td>• Washer, lock, M3</td>
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Technical Data

Fulfill System Specifications

The following specifications are specific to the Fulfill integrated fill system. For general ProBlue melter specifications, refer to the melter manual.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Air supply pressure</td>
<td>50–80 psi (3.45–5.51 bar) at 24 scfm</td>
</tr>
<tr>
<td>Adhesive size</td>
<td>12 x 12 mm$^2$ (maximum)</td>
</tr>
</tbody>
</table>

Dimensions

**P4 Melter**

Figure 11  P4 melter dimensions
P7 Melter

Figure 12  P7 melter dimensions

369.9 mm
(14.56 in.)

348 mm
(13.70 in.)

603.2 mm
(23.75 in.)

638.8 mm
(25.15 in.)
**P10 Melter**

Figure 13  P10 melter dimensions
Wiring Diagram

Figure 14  Wiring diagram