This document contains important safety information
Be sure to read and follow all safety information in this
document and any other related documentation.
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MiniSquirt® III Hand-held Applicator

Safety

Read this section before using the equipment. This section contains recommendations and practices applicable to the safe installation, operation, and maintenance (hereafter referred to as “use”) of the product described in this document (hereafter referred to as “equipment”). Additional safety information, in the form of task-specific safety alert messages, appears as appropriate throughout this document.

⚠️ WARNING! Failure to follow the safety messages, recommendations, and hazard avoidance procedures provided in this document can result in personal injury, including death, or damage to equipment or property.

Safety Alert Symbols

The following safety alert symbol and signal words are used throughout this document to alert the reader to personal safety hazards or to identify conditions that may result in damage to equipment or property. Comply with all safety information that follows the signal word.

⚠️ WARNING! Indicates a potentially hazardous situation that, if not avoided, can result in serious personal injury, including death.

⚠️ CAUTION: Indicates a potentially hazardous situation that, if not avoided, can result in minor or moderate personal injury.

⚠️ CAUTION: (Used without the safety alert symbol) Indicates a potentially hazardous situation that, if not avoided, can result in damage to equipment or property.
Responsibilities of the Equipment Owner

Equipment owners are responsible for managing safety information, ensuring that all instructions and regulatory requirements for use of the equipment are met, and for qualifying all potential users.

Safety Information

- Research and evaluate safety information from all applicable sources, including the owner-specific safety policy, best industry practices, governing regulations, material manufacturer’s product information, and this document.
- Make safety information available to equipment users in accordance with governing regulations. Contact the authority having jurisdiction for information.
- Maintain safety information, including the safety labels affixed to the equipment, in readable condition.

Instructions, Requirements, and Standards

- Ensure that the equipment is used in accordance with the information provided in this document, governing codes and regulations, and best industry practices.
- If applicable, receive approval from your facility’s engineering or safety department, or other similar function within your organization, before installing or operating the equipment for the first time.
- Provide appropriate emergency and first aid equipment.
- Conduct safety inspections to ensure required practices are being followed.
- Re-evaluate safety practices and procedures whenever changes are made to the process or equipment.
**User Qualifications**

Equipment owners are responsible for ensuring that users:

- receive safety training appropriate to their job function as directed by governing regulations and best industry practices
- are familiar with the equipment owner's safety and accident prevention policies and procedures
- receive, equipment- and task-specific training from another qualified individual

**NOTE:** Nordson can provide equipment-specific installation, operation, and maintenance training. Contact your Nordson representative for information

- possess industry- and trade-specific skills and a level of experience appropriate to their job function
- are physically capable of performing their job function and are not under the influence of any substance that degrades their mental capacity or physical capabilities

**Applicable Industry Safety Practices**

The following safety practices apply to the use of the equipment in the manner described in this document. The information provided here is not meant to include all possible safety practices, but represents the best safety practices for equipment of similar hazard potential used in similar industries.

**Intended Use of the Equipment**

- Use the equipment only for the purposes described and within the limits specified in this document.
- Do not modify the equipment.
- Do not use incompatible materials or unapproved auxiliary devices. Contact your Nordson representative if you have any questions on material compatibility or the use of non-standard auxiliary devices.

**Instructions and Safety Messages**

- Read and follow the instructions provided in this document and other referenced documents.
- Familiarize yourself with the location and meaning of the safety warning labels and tags affixed to the equipment. Refer to *Safety Labels and Tags* at the end of this section.
- If you are unsure of how to use the equipment, contact your Nordson representative for assistance.
Installation Practices

- Install the equipment in accordance with the instructions provided in this document and in the documentation provided with auxiliary devices.
- Ensure that the equipment is rated for the environment in which it will be used and that the processing characteristics of the material will not create a hazardous environment. Refer to the Safety Data Sheet (SDS) for the material.
- If the required installation configuration does not match the installation instructions, contact your Nordson representative for assistance.
- Position the equipment for safe operation. Observe the requirements for clearance between the equipment and other objects.
- Install lockable power disconnects to isolate the equipment and all independently powered auxiliary devices from their power sources.
- Properly ground all equipment. Contact your local building code enforcement agency for specific requirements.
- Ensure that fuses of the correct type and rating are installed in fused equipment.
- Contact the authority having jurisdiction to determine the requirement for installation permits or inspections.

Operating Practices

- Familiarize yourself with the location and operation of all safety devices and indicators.
- Confirm that the equipment, including all safety devices (guards, interlocks, etc.), is in good working order and that the required environmental conditions exist.
- Use the personal protective equipment (PPE) specified for each task. Refer to Equipment Safety Information or the material manufacturer’s instructions and SDS for PPE requirements.
- Do not use equipment that is malfunctioning or shows signs of a potential malfunction.

Maintenance and Repair Practices

- Perform scheduled maintenance activities at the intervals described in this document.
- Relieve system hydraulic and pneumatic pressure before servicing the equipment.
- De-energize the equipment and all auxiliary devices before servicing the equipment.
- Use only new factory-authorized refurbished or replacement parts.
• Read and comply with the manufacturer’s instructions and the SDS supplied with equipment cleaning compounds.

 NOTE: SDSs for cleaning compounds that are sold by Nordson are available at www.nordson.com or by calling your Nordson representative.

• Confirm the correct operation of all safety devices before placing the equipment back into operation.

• Dispose of waste cleaning compounds and residual process materials according to governing regulations. Refer to the applicable SDS or contact the authority having jurisdiction for information.

• Keep equipment safety warning labels clean. Replace worn or damaged labels.

Equipment Safety Information

This equipment safety information is applicable to the following types of Nordson equipment:

• hot melt and cold adhesive application equipment and all related accessories

• pattern controllers, timers, detection and verification systems, and all other optional process control devices

Equipment Shutdown

To safely complete many of the procedures described in this document, the equipment must first be shut down. The level of shut down required varies by the type of equipment in use and the procedure being completed. If required, shut down instructions are specified at the start of the procedure. The levels of shut down are:

Relieving System Hydraulic Pressure

Completely relieve system hydraulic pressure before breaking any hydraulic connection or seal. Refer to the melter-specific product manual for instructions on relieving system hydraulic pressure.
De-energizing the System
Isolate the system (melter, hoses, guns, and optional devices) from all power sources before accessing any unprotected high-voltage wiring or connection point.

1. Turn off the equipment and all auxiliary devices connected to the equipment (system).

2. To prevent the equipment from being accidentally energized, lock and tag the disconnect switch(es) or circuit breaker(s) that provide input electrical power to the equipment and optional devices.

   **NOTE:** Government regulations and industry standards dictate specific requirements for the isolation of hazardous energy sources. Refer to the appropriate regulation or standard.

Disabling the Guns
All electrical or mechanical devices that provide an activation signal to the guns, gun solenoid valve(s), or the melter pump must be disabled before work can be performed on or around a gun that is connected to a pressurized system.

1. Turn off or disconnect the gun triggering device (pattern controller, timer, PLC, etc.).

2. Disconnect the input signal wiring to the gun solenoid valve(s).

3. Reduce the air pressure to the gun solenoid valve(s) to zero; then relieve the residual air pressure between the regulator and the gun.

General Safety Warnings and Cautions
Table 1 contains the general safety warnings and cautions that apply to Nordson hot melt and cold adhesive equipment. Review the table and carefully read all of the warnings or cautions that apply to the type of equipment described in this manual.

Equipment types are designated in Table 1 as follows:

- **HM** = Hot melt (melters, hoses, guns, etc.)
- **PC** = Process control
- **CA** = Cold adhesive (dispensing pumps, pressurized container, and guns)
### Table 1. General Safety Warnings and Cautions

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Warning or Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM</td>
<td><strong>WARNING:</strong> Hazardous vapors! Before processing any polyurethane reactive (PUR) hot melt or solvent-based material through a compatible Nordson melter, read and comply with the material's SDS. Ensure that the material's processing temperature and flashpoints will not be exceeded and that all requirements for safe handling, ventilation, first aid, and personal protective equipment are met. Failure to comply with SDS requirements can cause personal injury, including death.</td>
</tr>
<tr>
<td>HM</td>
<td><strong>WARNING:</strong> Reactive material! Never clean any aluminum component or flush Nordson equipment with halogenated hydrocarbon fluids. Nordson melters and guns contain aluminum components that may react violently with halogenated hydrocarbons. The use of halogenated hydrocarbon compounds in Nordson equipment can cause personal injury, including death.</td>
</tr>
<tr>
<td>HM, CA</td>
<td><strong>WARNING:</strong> System pressurized! Relieve system hydraulic pressure before breaking any hydraulic connection or seal. Failure to relieve the system hydraulic pressure can result in the uncontrolled release of hot melt or cold adhesive, causing personal injury.</td>
</tr>
<tr>
<td>HM</td>
<td><strong>WARNING:</strong> Molten material! Wear eye or face protection, clothing that protects exposed skin, and heat-protective gloves when servicing equipment that contains molten hot melt. Even when solidified, hot melt can still cause burns. Failure to wear appropriate personal protective equipment can result in personal injury.</td>
</tr>
</tbody>
</table>

*Continued...*
## General Safety Warnings and Cautions (contd)

Table 1. General Safety Warnings and Cautions (contd)

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Warning or Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM, PC</td>
<td><strong>WARNING</strong>: Equipment starts automatically! Remote triggering devices are used to control automatic hot melt guns. Before working on or near an operating gun, disable the gun's triggering device and remove the air supply to the gun's solenoid valve(s). Failure to disable the gun's triggering device and remove the supply of air to the solenoid valve(s) can result in personal injury.</td>
</tr>
<tr>
<td>HM, CA, PC</td>
<td><strong>WARNING</strong>: Risk of electrocution! Even when switched off and electrically isolated at the disconnect switch or circuit breaker, the equipment may still be connected to energized auxiliary devices. De-energize and electrically isolate all auxiliary devices before servicing the equipment. Failure to properly isolate electrical power to auxiliary equipment before servicing the equipment can result in personal injury, including death.</td>
</tr>
<tr>
<td>HM, CA, PC</td>
<td><strong>WARNING</strong>: Risk of fire or explosion! Nordson adhesive equipment is not rated for use in explosive environments and should not be used with solvent-based adhesives that can create an explosive atmosphere when processed. Refer to the SDS for the adhesive to determine its processing characteristics and limitations. The use of incompatible solvent-based adhesives or the improper processing of solvent-based adhesives can result in personal injury, including death.</td>
</tr>
<tr>
<td>HM, CA, PC</td>
<td><strong>WARNING</strong>: 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 can damage to the equipment.</td>
</tr>
<tr>
<td>HM</td>
<td><strong>CAUTION</strong>: Hot surfaces! Avoid contact with the hot metal surfaces of guns, hoses, and certain components of the melter. If contact can not be avoided, wear heat-protective gloves and clothing when working around heated equipment. Failure to avoid contact with hot metal surfaces can result in personal injury.</td>
</tr>
</tbody>
</table>
### Other Safety Precautions

- Do not use an open flame to heat hot melt system components.
- Check high pressure hoses daily for signs of excessive wear, damage, or leaks.
- Never point a dispensing hand-held applicator at yourself or others.
- Suspend dispensing hand-held applicators by their proper suspension point.

### First Aid

If molten hot melt comes in contact with your skin:

1. Do NOT attempt to remove the molten hot melt from your skin.
2. Immediately soak the affected area in clean, cold water until the hot melt has cooled.
3. Do NOT attempt to remove the solidified hot melt from your skin.
4. In case of severe burns, treat for shock.
5. Seek expert medical attention immediately. Give the SDS for the hot melt to the medical personnel providing treatment.
Safety Label

Figure 1 illustrates the location of the product safety label affixed to the equipment.

![Safety label diagram]

**CAUTION!** Hot surface. Failure to observe may result in burns.
Description

The MiniSquirt III hand-held applicator is a compact, handheld, manually operated electric adhesive gun designed with simplicity and reliability in mind.

The MiniSquirt hand-held applicator is larger than a stick gun and smaller than a tank or reservoir system. It holds 0.21 liters (7 ounces) of adhesive and dispenses 0.12 liters (4 ounces) per minute. It is ideal for small package sealing and product assembly jobs.

Each MiniSquirt hand-held applicator comes with a 1.8 mm (0.070 in.) diameter extended nozzle. All 115 VAC MiniSquirt hand-held applicators have power-in wiring with a power cord and plug installed at the factory.

For voltages other than U.S. domestic 115 VAC, an appropriate connector must be attached onto the supplied power cord.

The MiniSquirt hand-held applicator is thermally insulated to ensure both operator and unit protection. Warm-up time is approximately 15 minutes when using adhesive. The melt pot is thermostatically controlled and the temperature is adjustable from room temperature to 190 °C (375 °F).

See Figure 2 for the MiniSquirt gun components.
Description (contd)

Figure 2 MiniSquirt III hand-held applicator

1. Trigger
2. Wire stand
3. Adhesive reservoir
4. Cap retaining clip
5. Filler cap
Features

- Uses bulk adhesives
- All-electric and ready to run (plug-in and glue)
- Attached wire stand provides free-standing support
- Cap retaining clip to keep the filler cap secure
- Insulated body for maximum safety and cool touch
- Trigger-activated piston plunger for smooth operation
- Variety of nozzles available
- Dispenses 0.12 liters (4 ounces) per minute
- Lightweight and portable
- Wide filler neck accepts many forms of adhesive

Specifications

**Electrical**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>115 VAC 60 Hz single phase</td>
</tr>
<tr>
<td></td>
<td>230 VAC neutral 50 Hz (CE) single phase</td>
</tr>
<tr>
<td>Current required</td>
<td>2 A</td>
</tr>
<tr>
<td>Tank Heater</td>
<td>One 200 W cartridge</td>
</tr>
</tbody>
</table>

**Physical**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1.17 kg (2.6 lb)</td>
</tr>
<tr>
<td>Liquid capacity</td>
<td>0.21 liters (7 ounces)</td>
</tr>
<tr>
<td>Warm-up time</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Melt pot measures</td>
<td>113 g (4 ounces) dry weight</td>
</tr>
<tr>
<td></td>
<td>0.21 liters (7 fluid ounces) liquid capacity</td>
</tr>
<tr>
<td>Adhesive output</td>
<td>0.21 liters (4 ounces) per minute</td>
</tr>
<tr>
<td>Temperature control</td>
<td>Adjustable thermostat to max. 190 °C (375 °F)</td>
</tr>
</tbody>
</table>
Installation

The MiniSquirt hand-held applicator is an all-electric and ready to run unit. Plug the MiniSquirt hand-held applicator into the main power source. However, make sure to read the instructions under *Operation* before dispensing adhesive.

Operation

**WARNING!** Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

Startup

1. Plug the MiniSquirt hand-held applicator cord into the main power source.
2. Allow the MiniSquirt hand-held applicator to reach operating temperature (about 15 minutes, depending on the temperature setting).
3. Use the temperature adjustment located at the rear of the MiniSquirt hand-held applicator. See Figure 3.
   a. Use a flat head screwdriver to move “+” (clockwise) to increase temperature or “−” (counter-clockwise) to decrease temperature.
   b. Adjust the temperature to approximately 190 °C (375 °F).
**WARNING:** Gun body may be hot! To avoid the risk of burns wear heat-protective gloves.

4. Remove the cap retaining clip from the filler cap. For easiest removal, squeeze the cap retaining clip handle, see Figure 4.

5. Remove the filler cap.

6. Place a thermometer in the adhesive reservoir to verify tank temperature.
Fill and Dispense Adhesive

1. Add adhesive when the MiniSquirt hand-held applicator reaches operating temperature.

CAUTION! Do not overfill the tank or spill melted adhesive onto the upper casing. Allow the adhesive in the reservoir to melt down before adding material to completely fill the unit.

Figure 5  Adhesive filling location

1. Filler cap
2. Cap retaining clip (bottom wire-form highlighted)
3. Filler neck
4. Adhesive reservoir
**WARNING!** Make sure that the filler cap is pushed all the way in and is secure. If the filler cap is not secure, melted adhesive may spill out and result in serious burns. Installed correctly, the cap retaining clip will ensure that the filler cap is secure.

2. Replace the filler cap. Do not block the vent hole in the cap.

3. Reattach the cap retaining clip on the filler cap. See Figure 4.

   **NOTE:** The bottom wire-form of the cap retaining clip should be positioned below the filler neck, see inset in Figure 5.

4. Carefully pull back on the trigger to dispense the adhesive. The amount of material dispensed is governed by trigger pull.

5. Release the trigger between applications in order to refill the adhesive reservoir.

### Shutdown

**CAUTION!** Make sure to observe the following safety guidelines:

- Never leave the MiniSquirt hand-held applicator unattended or unused for an extended period while it is powered.
- The cap retaining clip should always be installed.
- Always unplug the MiniSquirt hand-held applicator from the main power source when not in use.

**NOTE:** It is not necessary to drain the tank for daily shutdown.
**Maintenance**

- Flush and clean the tank at least 4 times a year.
- Clean or replace the nozzle tip to repair leaks.
- Replace defective thermostats, heater parts and O-rings as required. Refer to *Parts List*.

**Troubleshooting**

These troubleshooting procedures cover only the most common problems. If the problem cannot be solved with the information given here, contact Nordson for assistance.

⚠️ **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.

**Gun Disassembly**

1. Power the MiniSquirt hand-held applicator for 5 minutes to loosen the screws that hold the main casing to the melt pot.
2. Use a metric hex-wrench to prevent damage to the socket head screws.
3. Do not pry apart the main casing. It is a one piece assembly.
4. Do not break, weaken, or lose the wire stand. The stand is required for support to prevent adhesive from flowing out of the melt pot through the filler cap vent.
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## Parts List

See Figure 6 for the hand-held applicator 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></td>
<td>Plug, 115 VAC, 2 wire</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>900040</td>
<td>Ball, nozzle</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Power Cord</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>4</td>
<td>1029011</td>
<td>Main casing with handle</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1029012</td>
<td>Upper casing</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Hot melt pot</td>
<td>1</td>
<td>A, B</td>
</tr>
<tr>
<td>7</td>
<td>1029018</td>
<td>Piston assembly</td>
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</tr>
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<td>8</td>
<td>1032629</td>
<td>Trigger</td>
<td>1</td>
<td>A</td>
</tr>
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<td>9</td>
<td>1018709</td>
<td>Filler cap</td>
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<td></td>
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<td>10</td>
<td>1029016</td>
<td>Collar</td>
<td>1</td>
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<tr>
<td>11</td>
<td>1018737</td>
<td>Adjustable thermostat</td>
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<td>12</td>
<td>1029001</td>
<td>Heater, 115V 200W</td>
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<tr>
<td>13</td>
<td>1018736</td>
<td>Heater, 230V 200W</td>
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<td>14</td>
<td>1029013</td>
<td>Nozzle spring</td>
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<td></td>
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<td>15</td>
<td>1033749</td>
<td>Handle spring</td>
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<td>A</td>
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<tr>
<td>16</td>
<td>941172</td>
<td>O-ring, Viton</td>
<td>4</td>
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<tr>
<td>17</td>
<td>1018720</td>
<td>O-ring, filler cap</td>
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<td></td>
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<tr>
<td>18</td>
<td></td>
<td>Screw, socket head cap, M4 X 25</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>19</td>
<td>982466</td>
<td>Screw, socket head cap, M4 X 12</td>
<td>4</td>
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<tr>
<td>20</td>
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<td>Screw, socket head cap, M4 X 18</td>
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<td>A</td>
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<td>21</td>
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<td>Screw, socket head cap, M4 X 10</td>
<td>2</td>
<td>A</td>
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<td>22</td>
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<td>Screw, socket head cap, M3 X 12</td>
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<td>23</td>
<td>1029017</td>
<td>Bearing</td>
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<tr>
<td>24</td>
<td>1029005</td>
<td>Insulation sleeve</td>
<td>4</td>
<td>B</td>
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<td>1029003</td>
<td>Insulating sleeve</td>
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<td>26</td>
<td>1029014</td>
<td>Ceramic grip</td>
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<td>27</td>
<td>1029004</td>
<td>Wire stand</td>
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<td>28</td>
<td>1029010</td>
<td>Clamp</td>
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<tr>
<td>29</td>
<td>1029006</td>
<td>Retainer ring</td>
<td>1</td>
<td></td>
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<tr>
<td>30</td>
<td>1029007</td>
<td>Retainer ring</td>
<td>1</td>
<td></td>
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<tr>
<td>31</td>
<td>1029008</td>
<td>Round head pin</td>
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<td>32</td>
<td>1029009</td>
<td>Taper pin, notched</td>
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<td>33</td>
<td></td>
<td>Internal lock washer</td>
<td>1</td>
<td>A</td>
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<td>34</td>
<td>1018731</td>
<td>Extended nozzle</td>
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<tr>
<td>35</td>
<td>1029015</td>
<td>Exit piece</td>
<td>1</td>
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<tr>
<td>36</td>
<td>1094286</td>
<td>Cap retaining clip</td>
<td>1</td>
<td></td>
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</tbody>
</table>

**NOTE**

A: Purchase locally

B: Purchase an entire assembly.
Figure 6   MiniSquirt hand-held applicator parts
Nozzles

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1018729</td>
<td>0.040 in. orifice nozzle</td>
</tr>
<tr>
<td>1018730</td>
<td>0.070 in. orifice nozzle</td>
</tr>
<tr>
<td>1018732</td>
<td>0.100 in. orifice nozzle</td>
</tr>
<tr>
<td>1018733</td>
<td>0.300 in. orifice nozzle</td>
</tr>
<tr>
<td>1025652</td>
<td>Kit, spare nozzles</td>
</tr>
</tbody>
</table>

Wiring Diagram

![Wiring Diagram](image)

Figure 7  MiniSquirt hand-held applicator wiring diagram