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Remote Start Kit

Installation and Operation

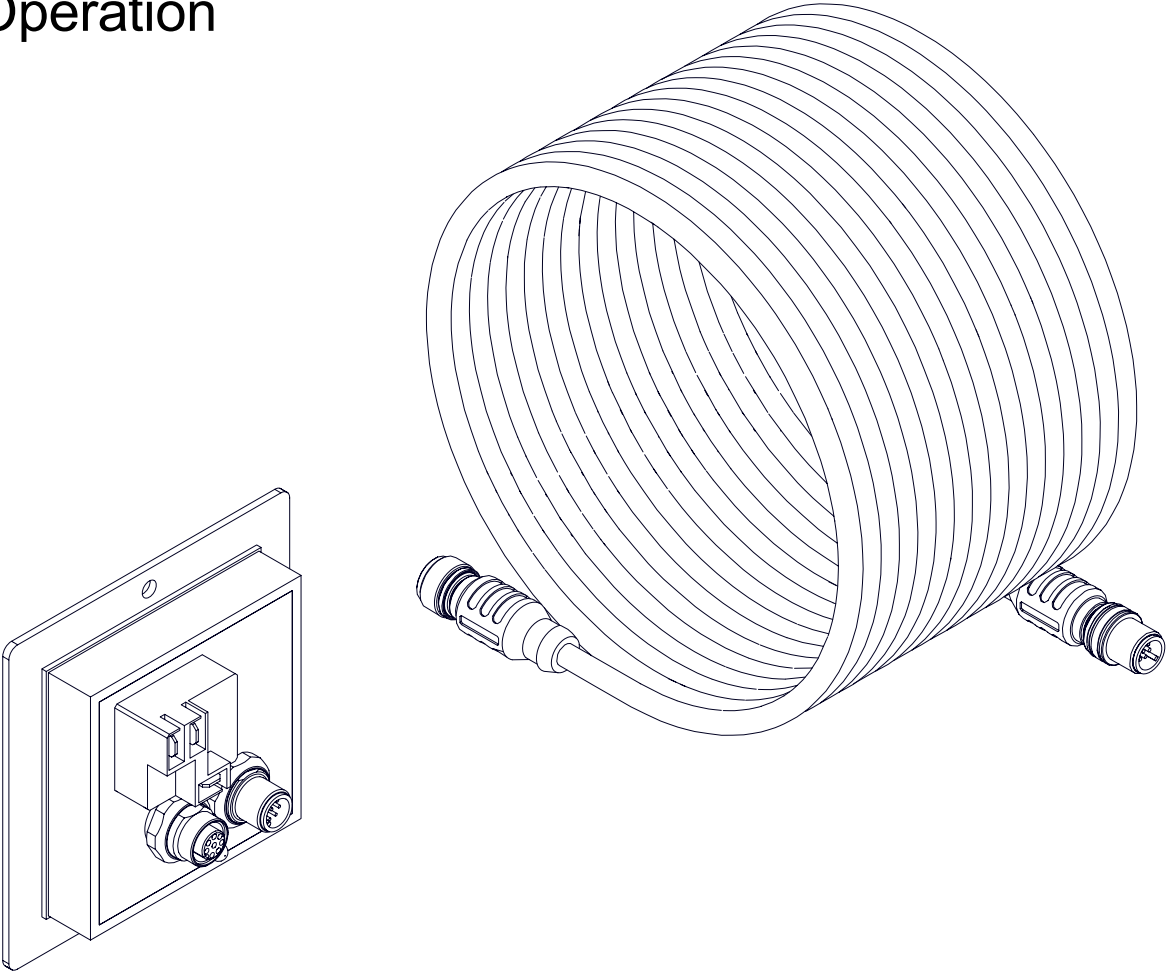


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Safety Precautions

- Read and understand all the associated documentation before you begin the installation.
- Read and understand all the notices and safety precautions.
- Be aware that these instructions are only guidelines and are not meant to be definitive. Contact Waterous when you have questions about installing, operating, or maintaining the equipment.
- Do not install the equipment if you are not familiar with the tools and skills needed to safely perform the required procedures—proper installation is the responsibility of the purchaser.
- Do not operate the equipment when safety guards are removed.
- Do not modify the equipment.
- Regularly check for leaks, worn, or deteriorated parts.

NOTICE

Before Operation

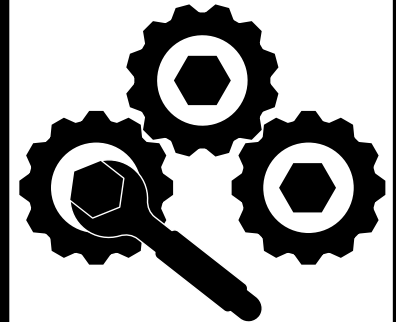
- Read and understand all the instructions provided.
- Check all fluid levels and replenish if necessary.
- Remove the all shipping plugs and install the operation plugs or caps.



NOTICE

Modification

- Modifying the equipment can damage components and void your warranty.
- Do not modify the system or any of its components.



Use this document to install and operate your Waterous equipment. Understand the following conditions before continuing with the document:

- The instructions may refer to options or equipment that you may not have purchased with your system.
- The illustrations in this document are intended to convey concepts. Do not use the illustrations to determine physical attributes, placement, or proportion.
- Understand that your application may require additional steps, that are not described in the illustrations or instructions, to perform the installation.
- The equipment described in this document is intended to be installed by a person or persons with the necessary skills and knowledge to perform the installation.
- The equipment described in this document is intended to be operated by a person or persons with the basic knowledge of operating similar equipment.

This document is divided into the following sections:

SAFETY

This section describes general precautions and alert symbols that are in this document.

INTRODUCTION

This section is an overview of the document.

PRODUCT OVERVIEW

This section describes the components that make-up the system.

INSTALLATION

This section describes the installation and initial setup procedures.

OPERATION

This section describes the equipment operation.

SERVICE PARTS

This section describes the service parts.

Using this Document

Use the guidelines below when viewing this document.

Viewing the Document Electronically

- View this document in landscape orientation.
- Use the table of contents to navigate directly to that section.
- Text **with this appearance** is linked to a reference.

Printing the Document

- The document is viewed the best when printed in color.
- The *print on both sides* and *flip on long edge* features can provide the best results.
- Use a 3-ring binder to store the document.

Symbols

Here are the symbols found in the document a their definitions.



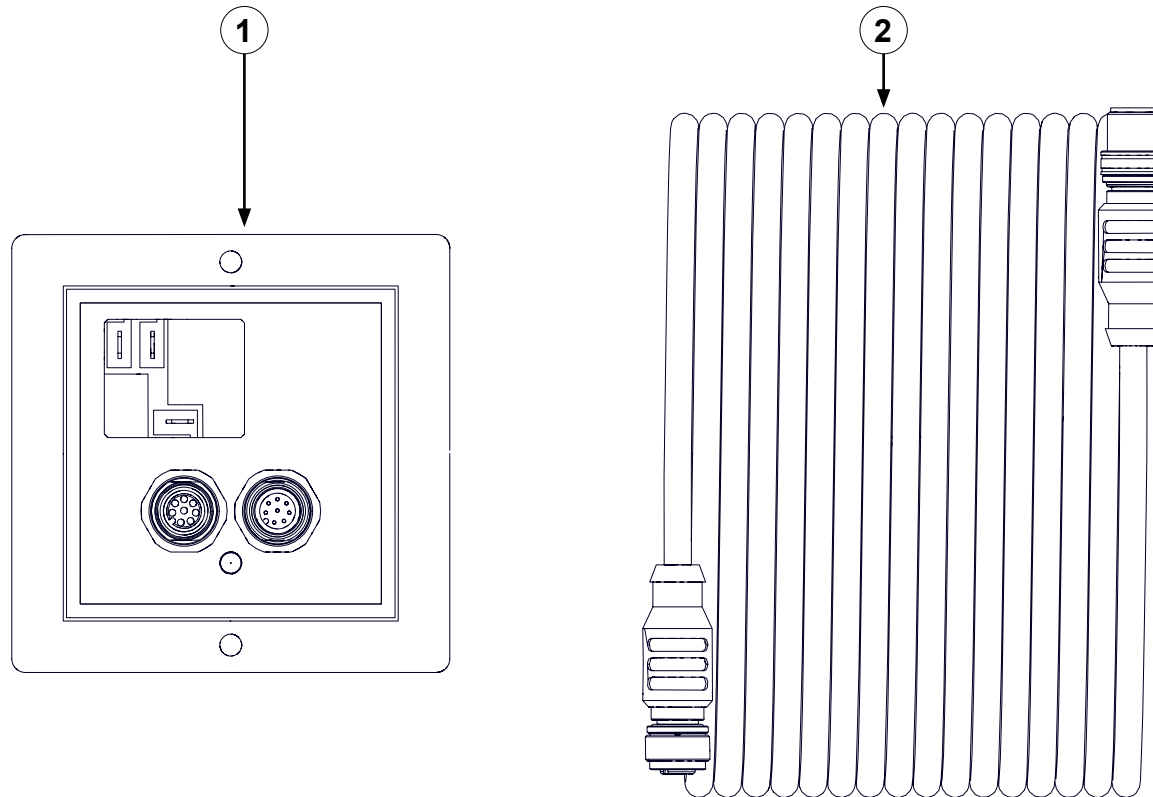
Section reference—This symbol tells you to refer to the section reference for additional information.



Drill—This symbol tells you to drill the mounting holes in the apparatus.

Main Components

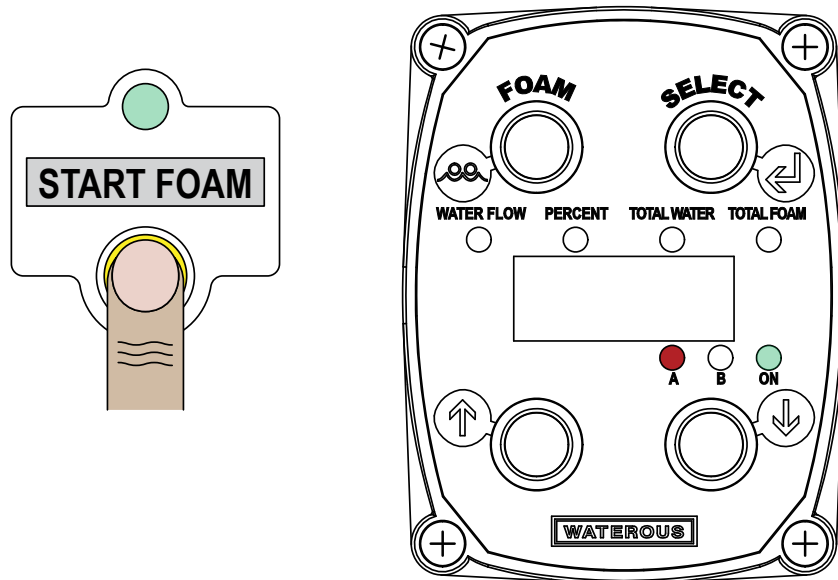
The remote start kit includes the illustrated components. The components are compatible with 8 V to 32 V power systems. Components such as switches, wiring, and connectors, are sourced by the installer.



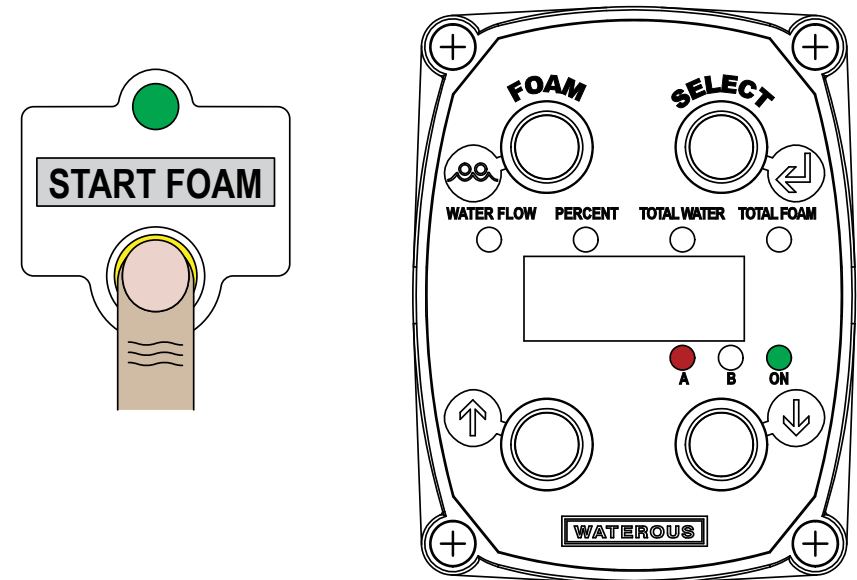
Feature	Description
1 Run-logic module	This enables system functions.
2 Cable	This enables the run-logic module to communicate with the foam pump.

System Overview

The remote start kit allows you to install a momentary switch and indicator light in a second location, such as a cab or turret. It allows you to enable and stop the foam pump operation, and check its operating status.

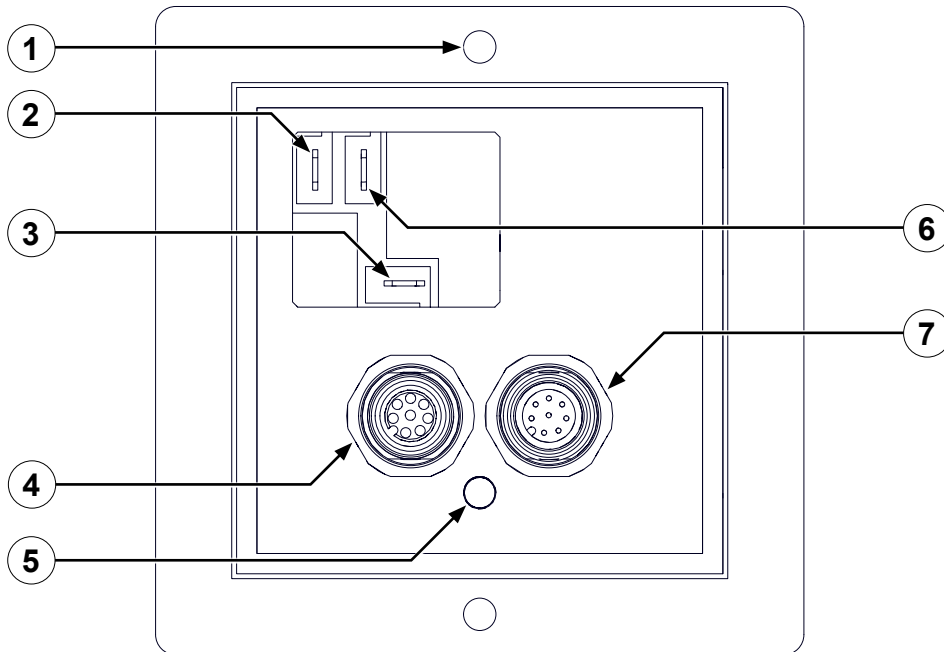


Pressing the remote button enables the foam pump system.



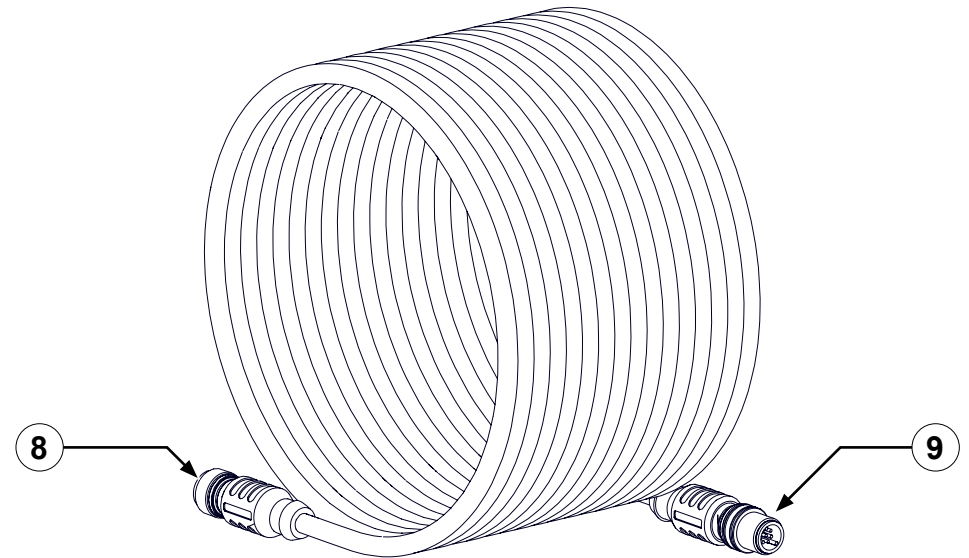
When the foam pump is operating, pressing the button stops the foam pump.

Run Logic Module



Feature	Description
1 Mounting hole	This secures the module to the apparatus.
2 N/C connector	This is the normally-closed solenoid connector.
3 Ground connector	This connects to apparatus ground.
4 Male Connector	This connects to the foam pump.
5 LED	This LED indicates operation.
6 N/O Connector	This is the normally-open solenoid connector.
7 Female Connector	This connects to the OIT.

Cable



Feature	Description
8 Female Connector	This connects to the run-logic module—8-pin.
9 Male Connector	This connects to the foam pump—8-pin.

Installation Overview

This equipment is intended to be installed by a person or persons with the basic knowledge of installing similar equipment. Contact Waterous with questions about installing the equipment. The installation may require the following tasks and abilities:

- Locating, drilling, and cutting features into the apparatus.
- Routing and securing the wiring.
- Final testing.

Preparing for the Installation

Read and understand all the installation instructions before installing the equipment. Prepare a suitable, well-lit area, and gather all the necessary tools before you begin the installation.

Modifying the Equipment

This equipment is intended to operate as designed. Do not remove, modify, or change the components in the system. Doing so will void the warranty. Contact Waterous for more information.

Determining the Panel and Plate Locations

Use the following guidelines to determine a location to mount the control panel, instruction panel, plate, flush valve, and quick-connect panel location:

- Consider the wire harness and cable routing.
- Consider accessibility during operation and maintenance.
- Install instruction plates near their applicable operator panels.

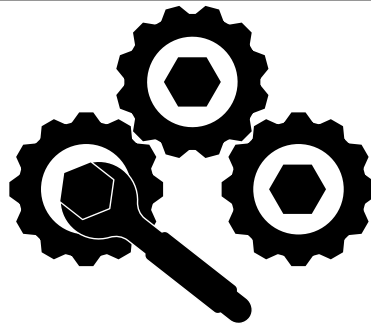
Determining Cable and Wire Routing

Use the *Wiring Best Practices* document, available at www.waterousco.com, as a guide to select and route wiring for your application.

NOTICE

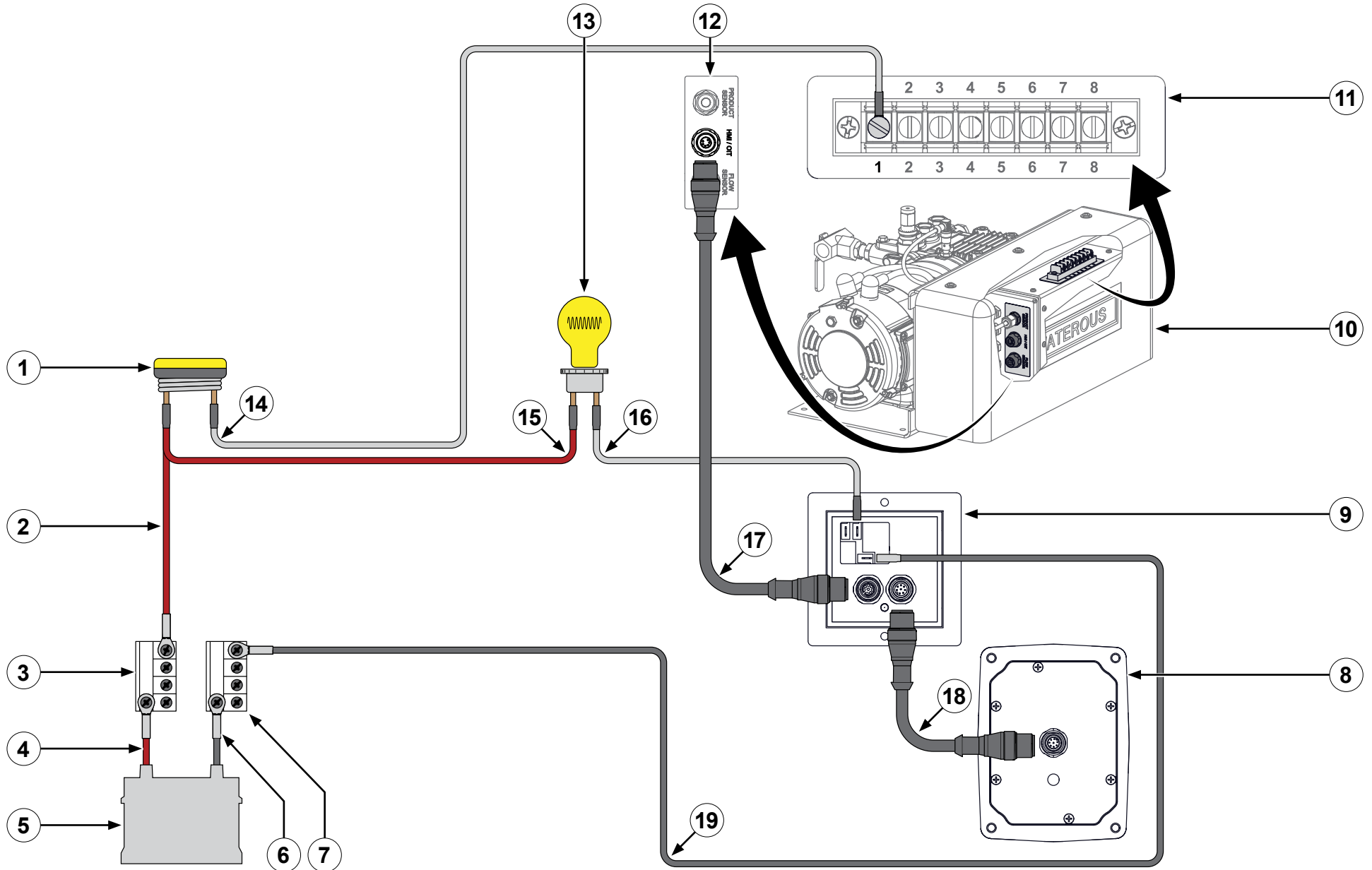
Modification

- Modifying the equipment can damage components and void your warranty.
- Do not modify the system or any of its components.



Do not modify the system or any components. Doing so will void your warranty.

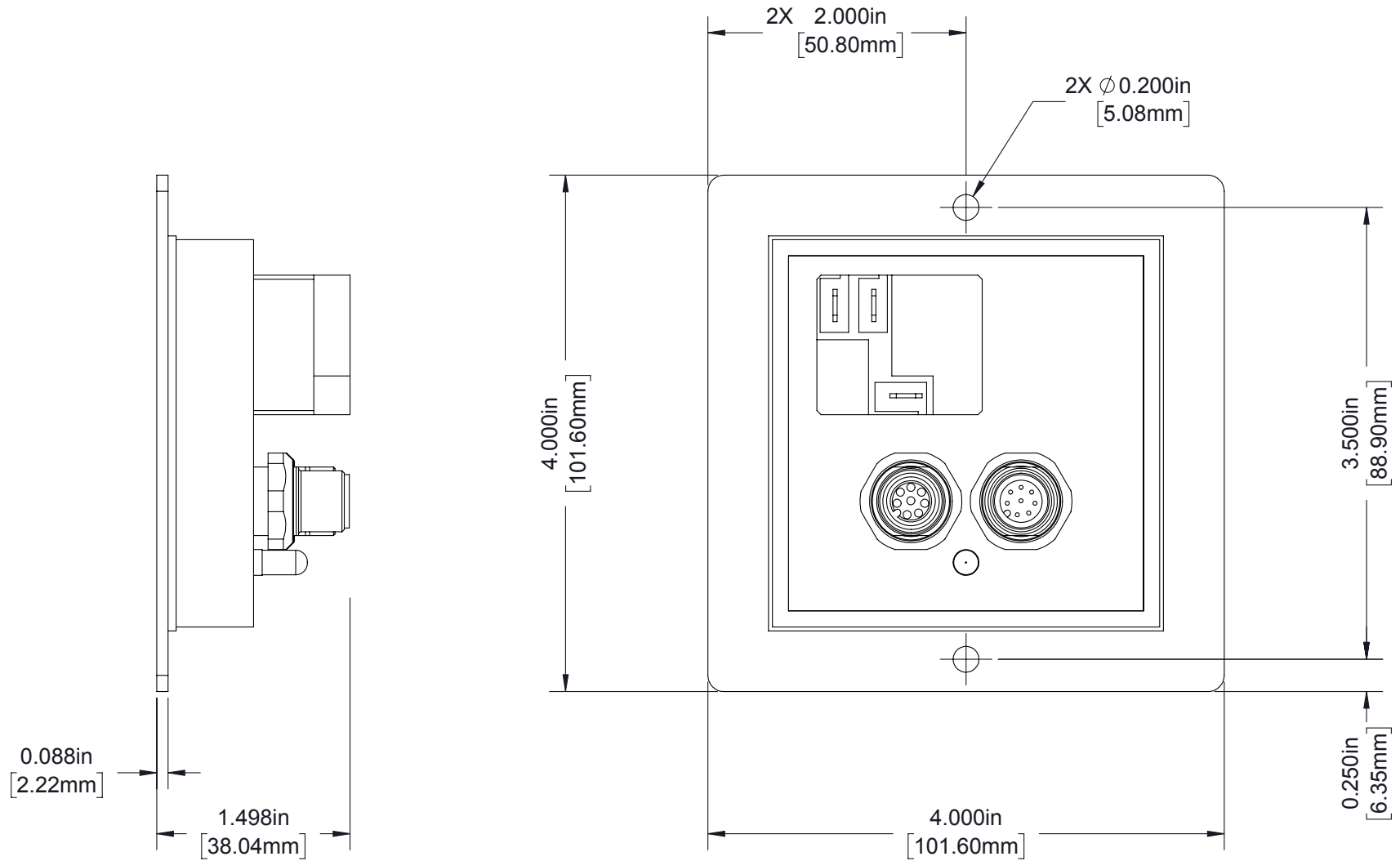
Electrical Connections Overview



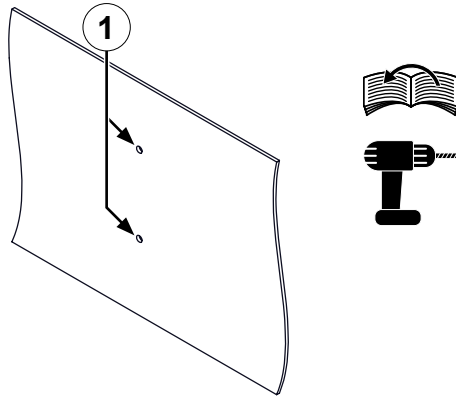
Electrical Connections Overview

Feature	Feature
1 Momentary switch—installer supplied	11 Terminal strip
2 Positive (+) wire—installer supplied	12 Foam pump controller connectors
3 Terminal block—installer supplied	13 Light—installer supplied
4 Positive (+) wire—installer supplied	14 Connecting wire—installer supplied
5 Power source—installer supplied	15 Connecting wire—installer supplied
6 Ground (-) wire—installer supplied	16 Connecting wire—installer supplied
7 Terminal block—installer supplied	17 Cable
8 OIT	18 OIT cable—supplied with AQUIS foam pump
9 Run-logic module	19 Ground (-) wire—installer supplied
10 Foam pump	

Dimensions—Run-Logic Module



Installing the Run-Logic Module

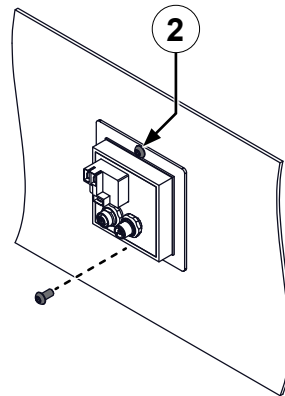


Use the illustrations and instructions to install the run-logic module to the apparatus. Refer to: **"Determining the Panel and Plate Locations" on page 9**

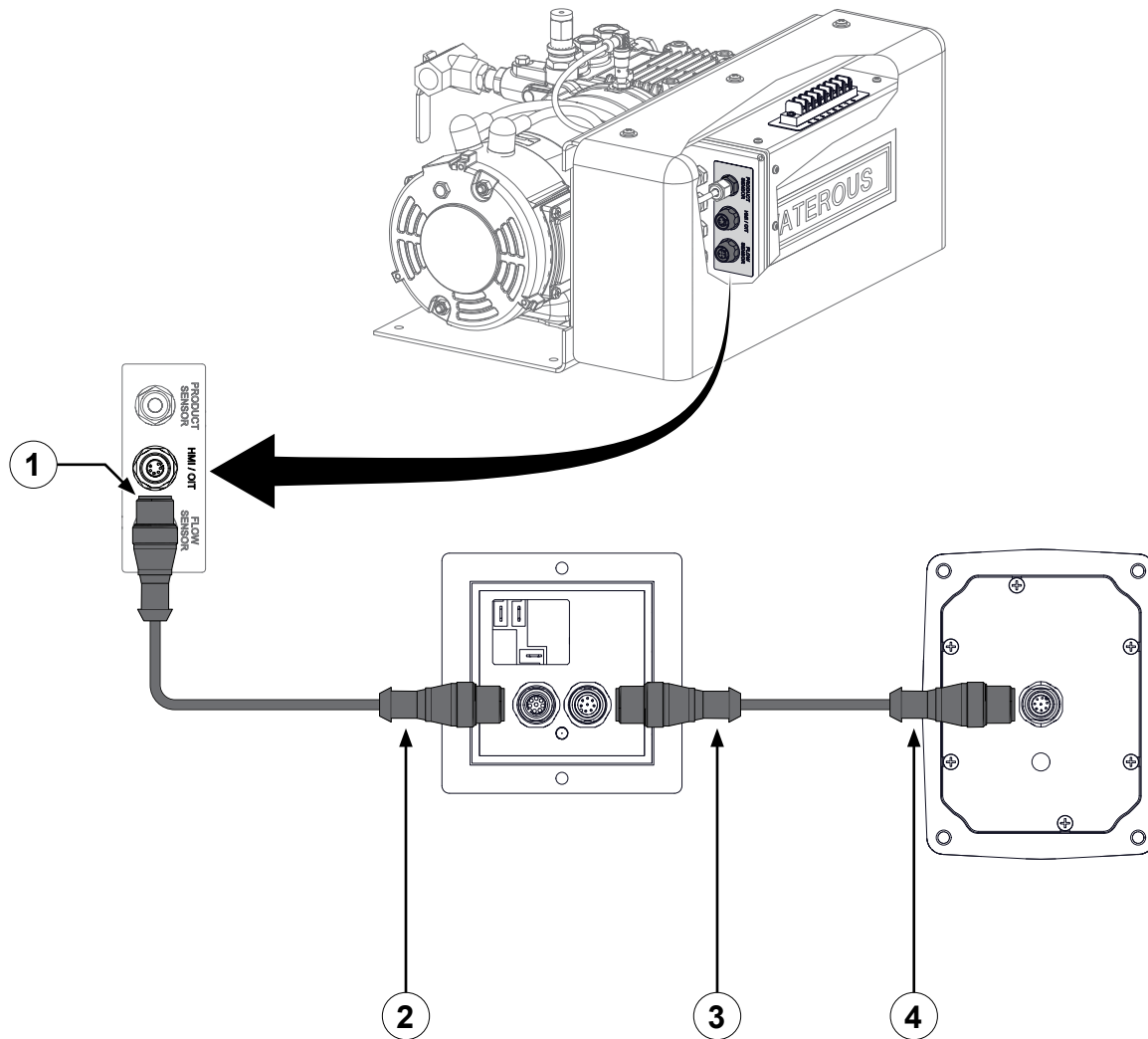
- 1 Locate and drill the mounting holes. Refer to: **"Dimensions—Run-Logic Module" on page 12**

Note: You can install the run-logic module in any orientation.

- 2 Use locally sourced hardware to secure the module to the apparatus.



Connecting the Run-Logic Module, OIT, and Foam Pump



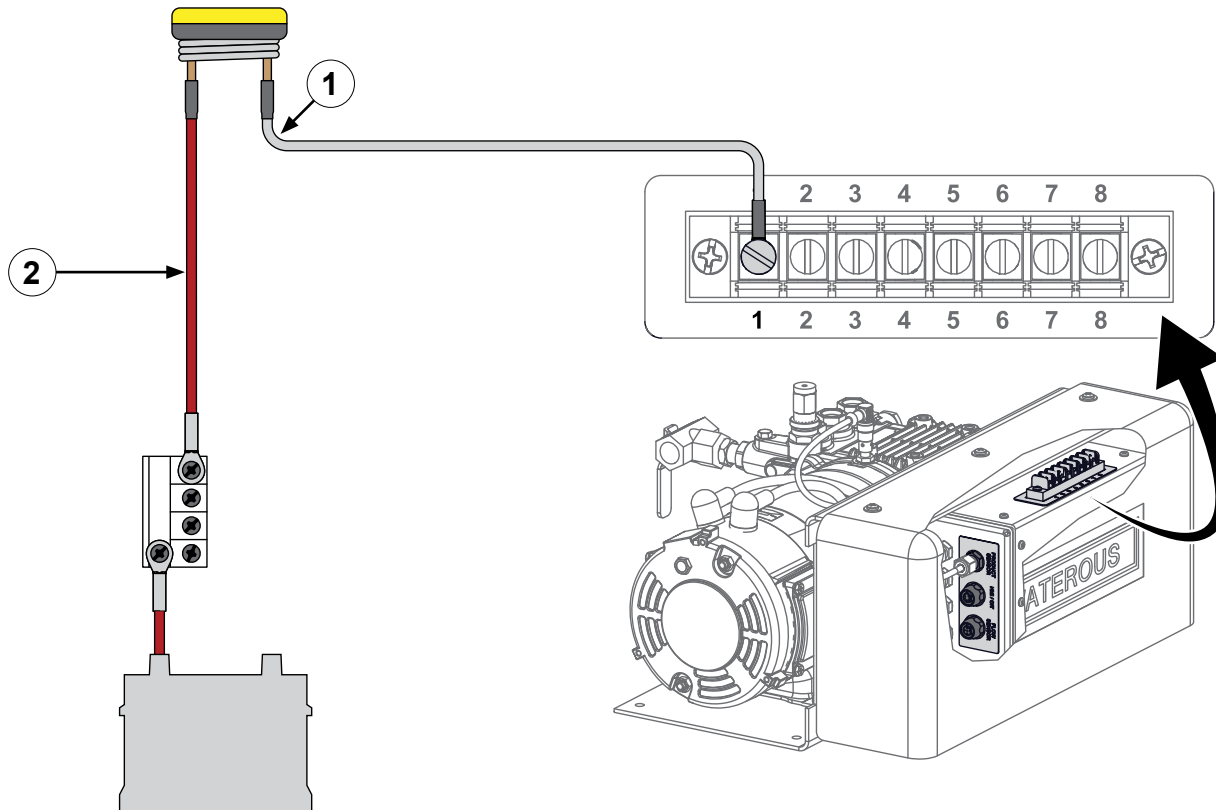
Use the illustration and instructions to connect the OIT, run-logic module, and foam pump with the 8-pin OIT cable.

To access the foam pump connections, refer to the *AQUIS Foam System Operator's Manual*.

- 1 Connect the female end of the cable to the HMI/OIT connector on the foam pump.
- 2 Connect the male end of the cable to the corresponding connector on the run-logic module.
- 3 Connect the male end of the cable supplied with the foam pump, to the corresponding connector on the run-logic module.
- 4 Connect the female end of the cable supplied with the foam pump, to the corresponding connector on the OIT.

Note: Secure the wire harness to the apparatus.
Refer to: "**Determining Cable and Wire Routing**" on page 9.

Connecting the Momentary Switch



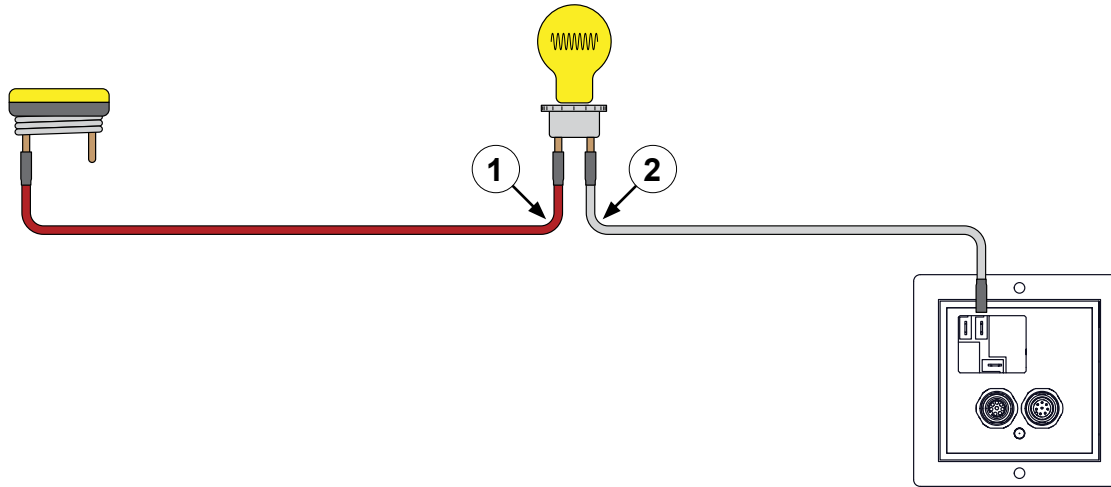
Use the illustration and instructions to install a N/O (normally open) momentary switch between the power source and foam pump. Locally source wiring, components, and connectors appropriate to connect the components together.

To access the connections, refer to the AQUIS™ foam pump *Operator's Manual*, available at www.waterousco.com.

- 1 Connect the momentary switch and terminal 1 on the foam pump terminal strip.
- 2 Connect the momentary switch to the positive (+) side of the power supply.

Note: Secure the cable to the apparatus. Refer to: **"Determining Cable and Wire Routing"** on page 9.

Connecting the Switch and Light



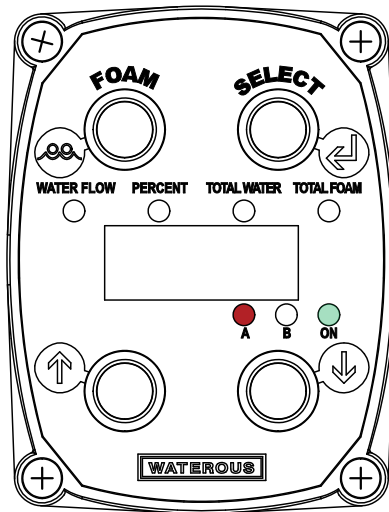
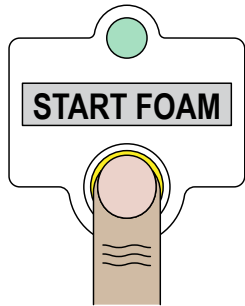
Use the illustration and instructions to install a light that indicates the foam system is enabled. Locally source wiring, components, and connectors appropriate to connect the components together.

- 1 Connect the momentary switch to the positive side of the light.
- 2 Connect the negative side of the light to the N/O (normally open) terminal on the run-logic module.

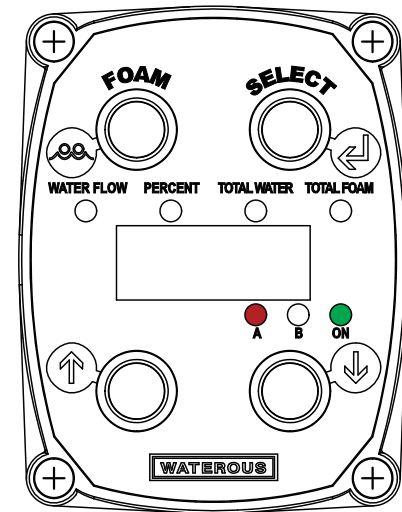
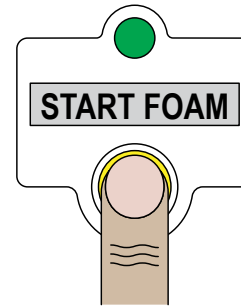
Note: Secure the cable to the apparatus. Refer to: **"Determining Cable and Wire Routing"** on page 9.

Operating the System

Use the remote start system to enable and stop the foam pump when necessary. Enabling the foam pump allows it to operate when water is flowed through the waterway.

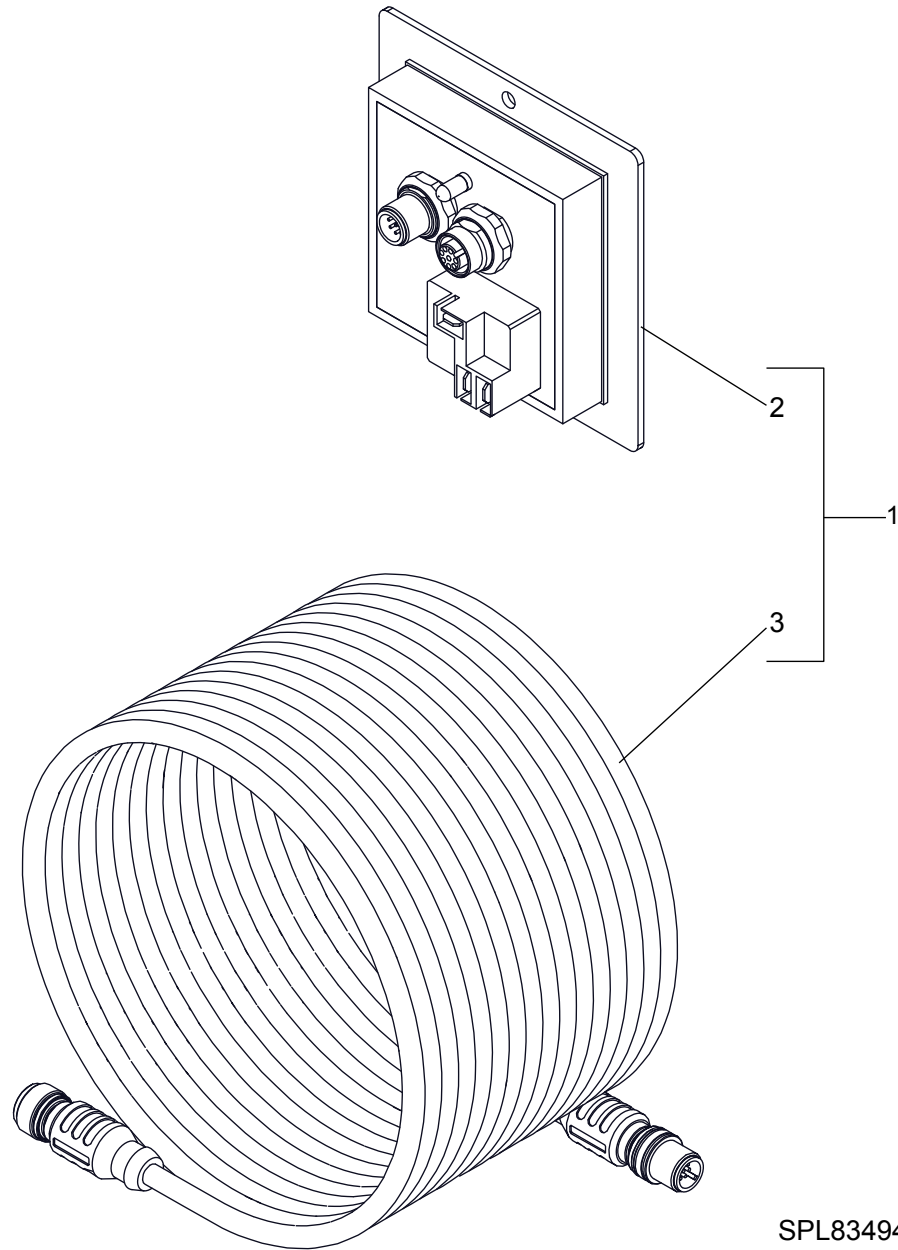


Press the button to enable the foam system. The foam pump begins operating when water is flowed through the waterway. The installer supplied light illuminates to indicate that the foam pump is enabled.



Press the button during operation to stop and disable the foam pump. The installer supplied light stops illuminating, indicating that the foam pump is disabled.

Main Components



SPL83494TP

Main Components

Description	
1	Remote start kit
2	Run-logic module
3	Cable—OIT/HMI, 8-pin

WATEROUS

Waterous Company
125 Hardman Avenue South
South Saint Paul, MN 55075
(651) 450-5000
www.waterousco.com