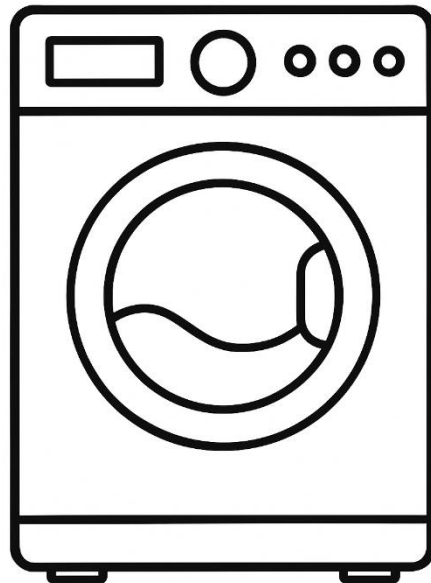




Speed Queen-Alliance
Programming Manual



Introduction

This guide provides instructions for configuring Speed Queen machine controllers for use with BluKey payment systems.

Speed Queen machines use different controller programming procedures depending on the machine model year. Before beginning programming, determine whether the machine is a **Pre-2021 model** or a **2021 and later model**, and follow the corresponding section in this guide.

The procedures in this document outline the controller settings required for the machine to communicate with an external payment device using **pulse** or **serial** communication, depending on the payment hardware installed.

These instructions are intended to focus only on the controller settings necessary to enable payment functionality. This guide does not cover full machine programming. Refer to the manufacturer's programming manual if additional machine configuration is required.



Figure 1

Configure Machine Controller Programming 2021 and Later Models Quantum Gold

1. Access Service Menu

Use one of the following methods to access the **Service Menu**:

- Open the **service door** (*coin vault must remain closed*)
- Disconnect and reconnect the **12-pin coin/service harness**
- Unplug the **bullet connector**

These actions allow access to the machine's **controller programming interface**.

2. Enter Rapid Programming Mode

- Press the **top-left button** and the **button directly below it** simultaneously as highlighted in **Figure 2**.
- Depending on the machine type, the display layout may vary (see **Figure 1**). However, the buttons used to enter programming mode will always be the top-left button and the button directly below it.
- The display will show rAPid
- This opens the **rapid programming menu**, which provides access to configuration options.

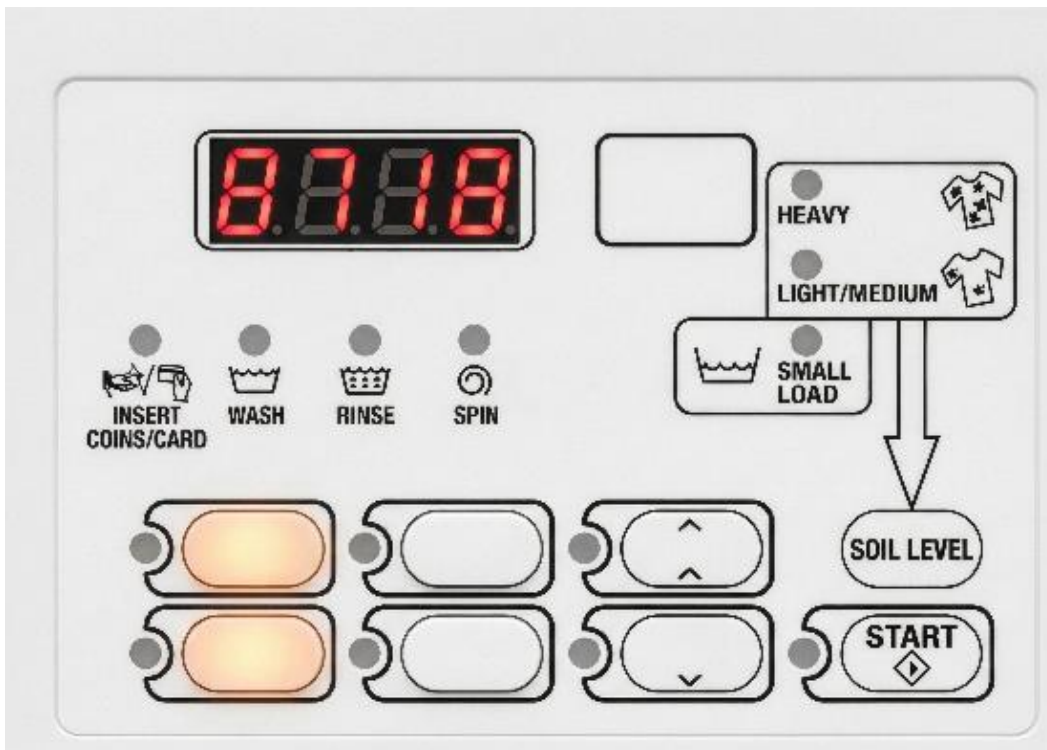


Figure 2

3. Access Programming Menu

- Press ▲ until the display shows: Pro9
Note: On some machines, the ▲ button may appear as a **small arrow symbol located**



Figure 3



near one of the keypad buttons, as shown in **Figure 3**.

- Press **START**.

This enters the **main programming menu**, where machine configuration settings can be adjusted.

4. Configure Payment Communication

- Press ▲ until the display shows: SErPAY
- Press **START**.

This setting determines **how the machine communicates with the external payment device**.

Set the value based on the **type of payment device installed**:

BluKey Pro Serial

- Set to cArD using ▲ or ▼
- Press **START** when finished

This enables **serial communication with a card reader**.

BluKey Pro Pulse / BluKey Pulse

- Set to SPuLSE using ▲ or ▼
- Press **START** when finished

This configures the machine to **accept pulse signals from the payment system**.

5. Configure Card Enable Setting

- When the display shows: CArdEn
- Press **START**.

This setting controls **whether card-reader communication is enabled**.

BluKey Pro Serial

- Set to on using ▲ or ▼
- Press **START** and proceed to **Step 11**

BluKey Pro Pulse / BluKey Pulse

- Set to oFF using ▲ or ▼
- Press **START** when finished



This ensures the machine **uses pulse communication instead of card-reader control**.

6. Configure Pulse Value

- When the display shows: PLSE
- Press **START**.
- When PLSdEn appears, press **START** again.
- Set the value to 00025
 - Use **▲ or ▼** to change each digit.
 - Press **START** to move to the next digit.
- Press **START** when finished.

This setting determines **how many pulses from the payment device are required to start a cycle**. A value of **25 pulses** is used for BluKey pulse systems.

7. Enable Pulse Operation

- When the display shows: PLSEn
- Press **START**.
- Press **▲** until the value shows: On
- Press **START**.

This enables the **pulse input feature**, allowing the machine to respond to payment signals.

8. Configure Pulse Mode

- When the display shows: PLSnod
- Press **START**.
- Press **▲** until the value shows: NULt
- Press **START**.

This setting configures the machine to **accept the full pulse sequence from the payment device**.



9. Continue Programming

- When the display shows: PLSdEn
- Press ◀ **once**, then press ▲.

This advances to the next programming option.

10. Configure Output Type

- When the display shows: AtyPE
- Press **START**.
- Set the value to 5
- Use ▲ **or** ▼ to change the value.
- Press **START** when finished.

This setting configures the machine for **external payment system control**.

11. Exit Programming Mode

- Press the ◀ **button repeatedly** until the **price display appears**.

The machine has now returned to ready mode.

Quantum Touch

1. Access System Menu

- Use the service key to unlock and lift the machine's top cover.
- From the menu screen, touch and hold the display header until the **System Menu** screen appears.

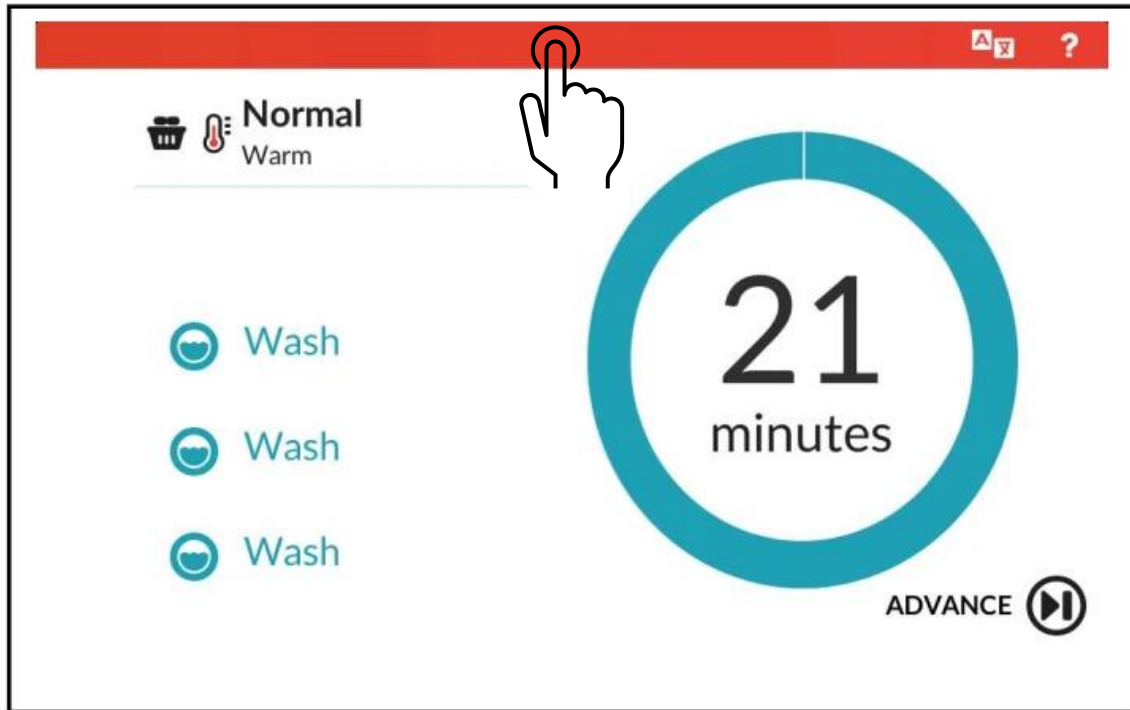


Figure 4

2. Navigate to Payment Settings

- Select **Settings** under **Other Options**.
- Select **Vend Settings**.
- Navigate to **Payment Settings**.

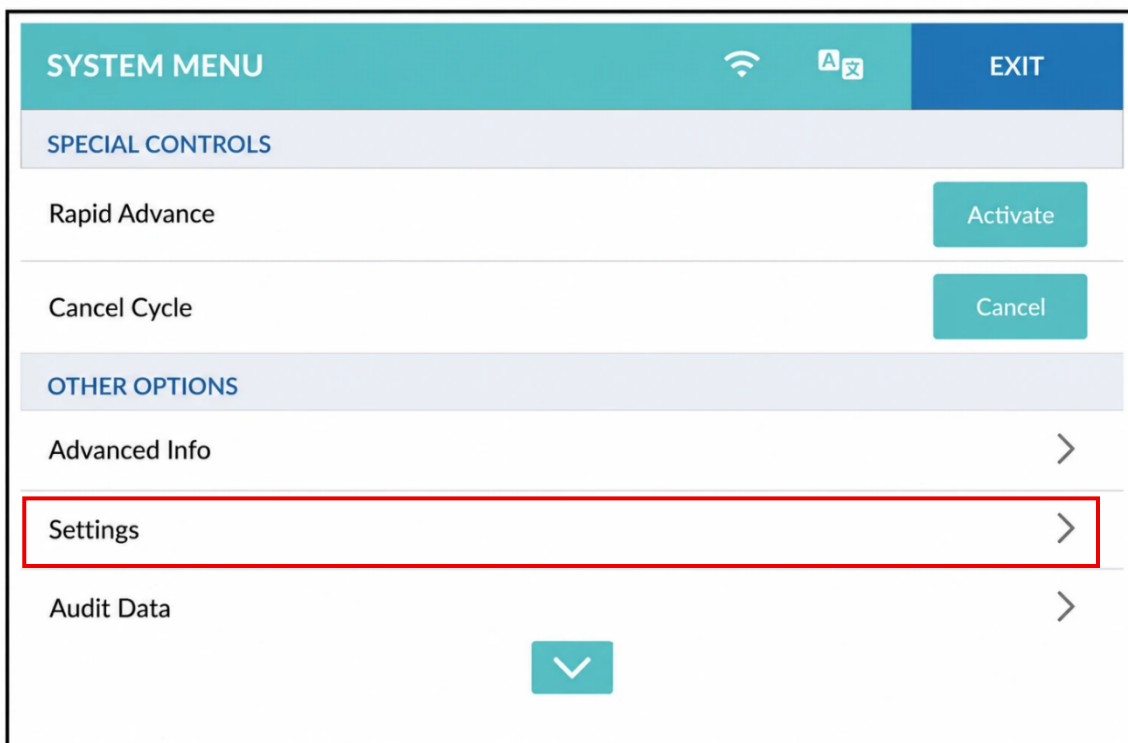


Figure 5

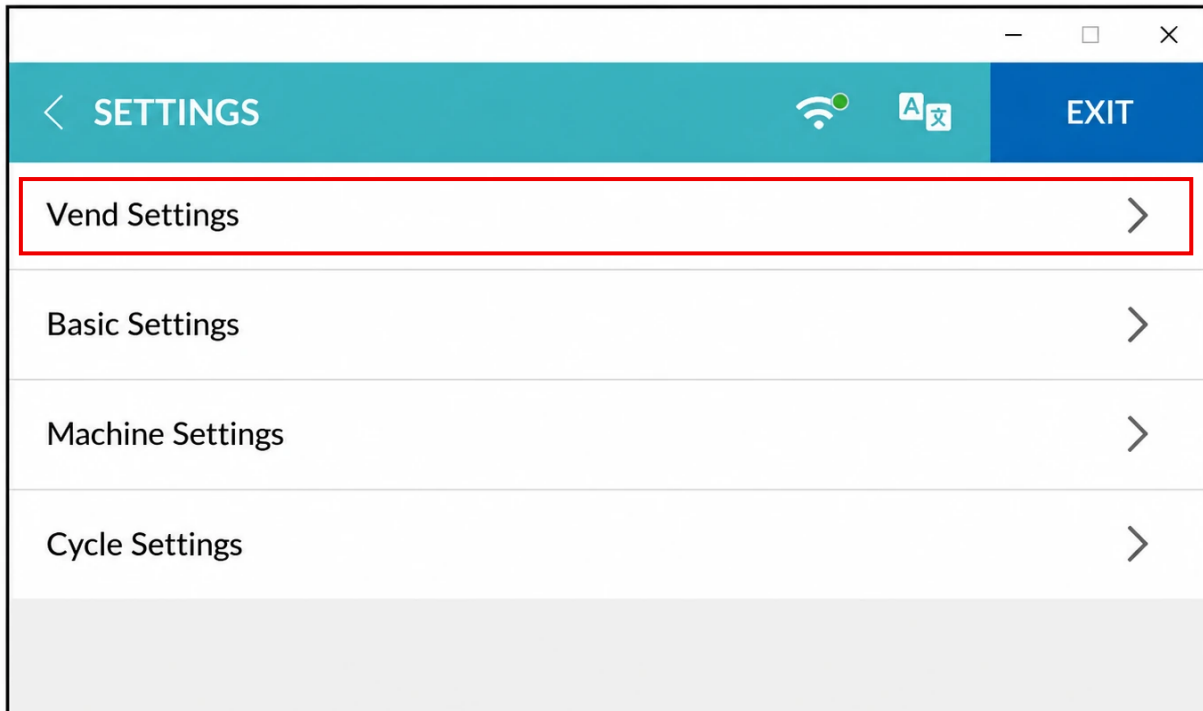


Figure 6

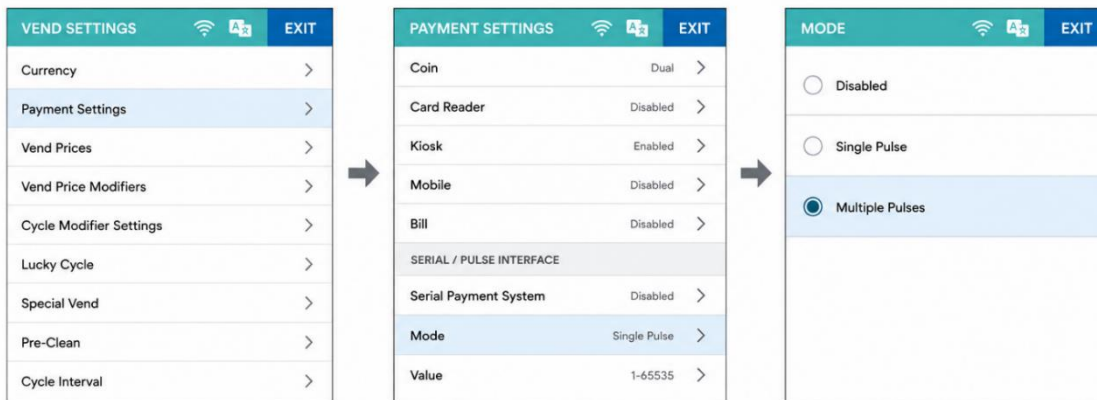
3. Configure Pulse Mode

- Scroll down to press **Mode**.
- Change the setting from **Single Pulse** to **Multiple Pulses**.

Vend Settings – Configure Mode

After accessing Vend Settings, navigate to Mode and select Multiple Pulses.

- 1 From the VEND SETTINGS menu, select Payment Settings.
- 2 In Payment Settings, scroll down to Mode and select it.
- 3 Select Multiple Pulses from the Mode options.



Note: Selecting Multiple Pulses configures the machine to accept multiple pulse signals from the payment system for cycle start.

Figure 7

4. Verify Configuration

- Touch **EXIT** in the top right corner to exit the **System Menu**.

Note: Menu appearance may vary depending on Quantum Touch software version. Follow the menu listed above even if screen layouts differ.

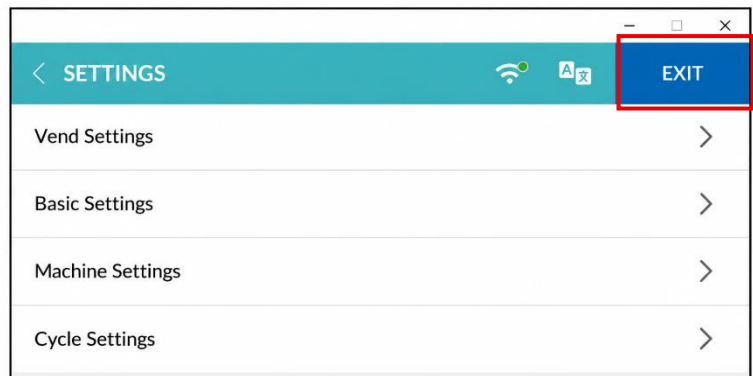


Figure 8

Configure Machine Controller Programming Pre-2021 Models

1. Access Service Mode

Use one of the following methods to access the **Service Menu**:

- Open the **service door** (*coin vault must remain closed*)
- Disconnect and reconnect the **12-pin coin/service harness**
- Unplug the **bullet connector**

These actions allow access to the machine's **controller programming interface**.

2. Enter Rapid Programming Mode

- Press the **top-left button** and the **button directly below it** simultaneously.
- Depending on the machine type, the display layout may vary (see **Figure 1**). However, the buttons used to enter programming mode will always be the top-left button and the button directly below it.
- The display will show: rAPid

This opens the **rapid programming menu**, which provides access to configuration options.

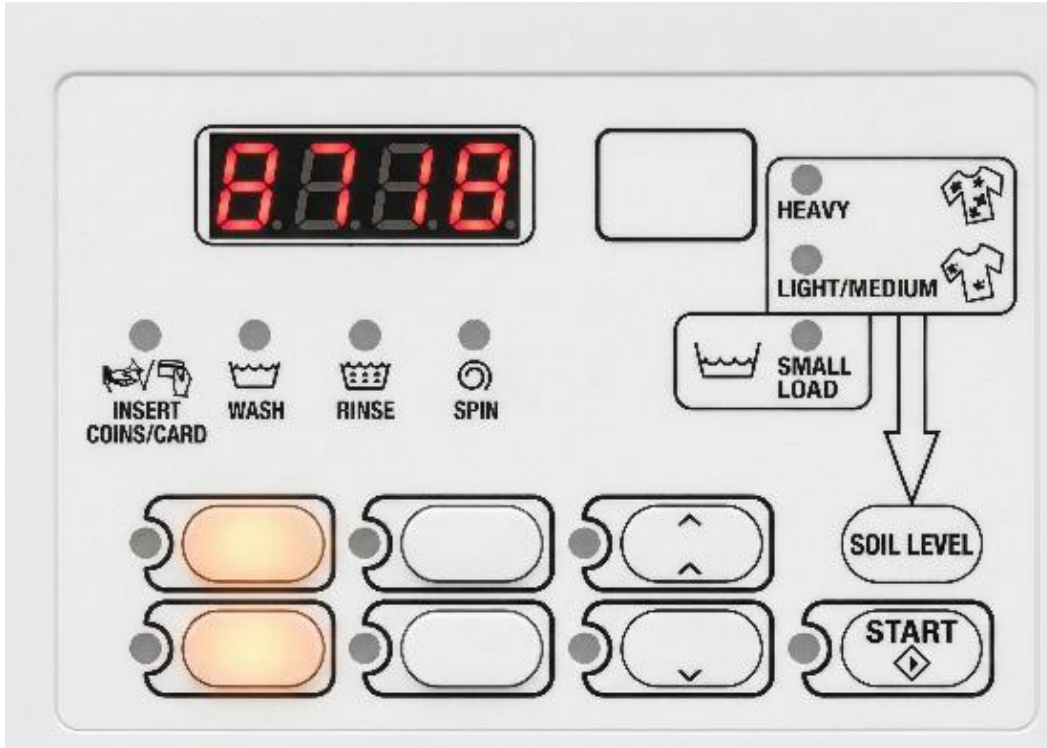


Figure 9

3. Access Programming Menu

- Press ▲ until the display shows: Pro9
Note: On some machines, the ▲ button may appear as a **small arrow symbol located near one of the keypad buttons**, as shown in **Figure 10**.



Figure 10

- Press **START**.

This opens the **machine programming menu**.

4. Navigate to Pulse Configuration

- Press ▲ until the display shows: PLSE
- Press **START**.

This setting controls **how the machine receives payment pulses from the payment device**.



5. Configure Pulse Value

- Set the value to: 00025
- Use ▲ or ▼ to change each digit.
- Press **START** to move to the next digit.
- Press **START** when finished.

This sets the **number of pulses required to start a cycle**.

6. Check Display Response

- If the display shows: cYcLE
 - Press ◀ until the **price display appears**.
 - If the display shows: PLSn or PLSnod
 - Press **START** and continue to the next step.
-

7. Set Machine ID

- Set the value to: 192
- Use ▲ or ▼ to change the value.
- Press **START** when finished.

This configures the machine for **external payment system communication**.

8. Configure Output Type

- When the display shows: AtyPE
- Press **START**.
- Set the value to: 5
- Press **START**.

This setting enables **external vend control from the payment device**.

9. Exit Programming Mode

- Press the ◀ **button repeatedly** until the **price display appears**.

The machine has now returned to ready mode.