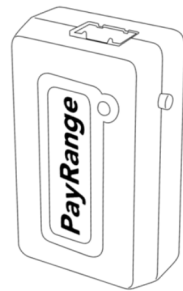




C2 Alliance ACA Laundry

For BluKey™ Pro Serial/Pulse & BluKey™ Pulse Devices

Installation Guide



BluKey™ Pro Serial
BluKey™ Pro Pulse



BluKey™ Pulse

HARNESS - LAUNDRY C2: ALLIANCE (ACA)

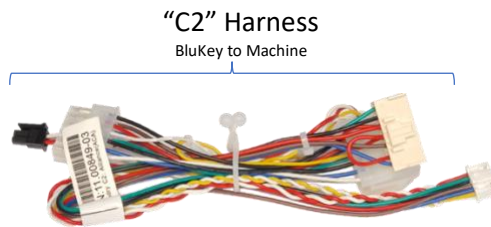
Alliance Laundry Systems
Machines with ACA
Midas/Touch Vend/Titanium
Controllers

PayRange Laundry System

1 Coin-Op Machine



2 Laundry Interface Kit



3 BluKey™ Pro



or



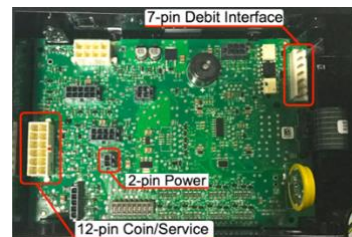
BluKey™ Pulse

BluKey device accepts payment from PayRange mobile app. Laundry Interface Kit (includes Cable Harnesses and Card Adapter Board) connects BluKey to Laundry Machine and converts electrical signals between them.

Supported Machines

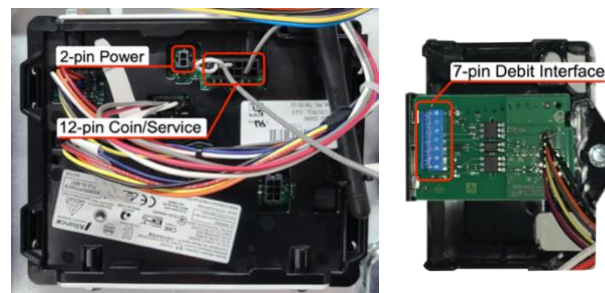
Alliance Laundry Systems with these ACA controllers:

- Midas
- Galaxy™ 600+
- Quantum™ Gold+
- Touch Vend
- Quantum™ Gold Pro / Titanium



ACA Controller (Pre 2021 Models)

***Board layout can vary greatly. Images are for example only. Compatible controllers will have all connections shown. Please refer to machine manual for location of these connectors or reach out to machine manufacturer.**



Quantum Gold Pro Controller and Auxiliary Board

Machine Controller Configuration (Serial / Pulse)

Machines can be set to 2 types of mode: Serial and Pulse.

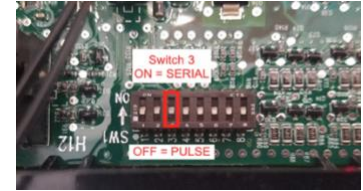
Configure Machine

Pre 2021 models:

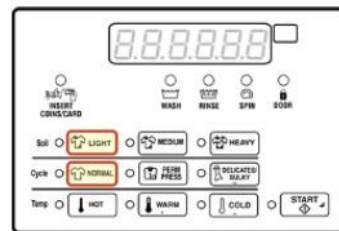
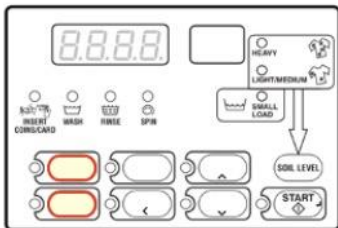
Open machine control panel to access controller board (behind display)

Switch 3 on machine controller sets mode to serial or pulse

- Switch 3 must be set to ON for BluKey Pro Serial
- Switch 3 must be set to OFF for BluKey Pro Pulse /BluKey Pulse



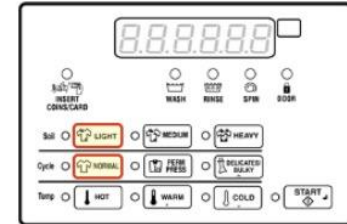
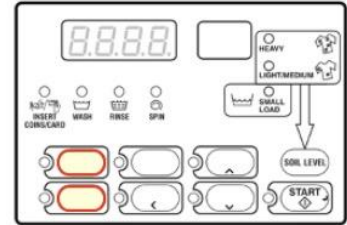
Pre 2021 models (Machine Controller Programming for BluKey Pro Pulse/BluKey Pulse):



1. Open Service Door (coin vault must be closed) or disconnect & reconnect 12-pin coin/service harness
2. Press **^** to **Pr** then press **START**
3. Press **^** until display shows **PL5E** then press **START**
4. Set to **00025** (use **^** or **v** to change character value, press **START** to move to next character) press **START** when done
5. If display shows:
 - a. **cYcLE**: Press **<** button until price is displayed
 - b. **PL5n** or **PL5n0d**: press **START** and proceed to next step
6. Set to **192** (use **^** or **v** to change) press **START** when done
7. Display shows **REYPE** press **START** and set to **5** (use **^** to change, then press **START**)
8. Press **<** button repeatedly until price is displayed to return to ready mode

2021 and later models (Machine Controller Programming):

1. Mode is set via controller programming
Use one of the following methods to access Manual Mode:
 - a. Open Service Door (coin vault must be closed)
 - b. Disconnect & reconnect 12-pin coin/service harness
 - c. Unplug bullet connector
2. Press buttons in column 1, rows 1 & 2 simultaneously
3. Display shows **rAP id** – press **^** to **Pr09** then press **START**
4. Press **^** until display shows **SERPAY** then press **START**
 - a. **BluKey Pro Serial:** Set to **cAr d** (use **^** or **v** to change) press **START** when done
 - b. **BluKey Pro Pulse/BluKey Pulse:** Set to **S PULSE** (use **^** or **v** to change), then press **START** when done
5. Display shows **cAr dEr** then press **START**
 - a. **BluKey Pro Serial:** Set to **oN** (use **^** or **v** to change) press **START** and proceed to step 11
 - b. **BluKey Pro Pulse/BluKey Pulse:** Set to **oFF** (use **^** or **v** to change) press **START** when done
6. Display shows **PULSE** then press **START**
Display shows **PLSdEr** then press **START**
Set to **00025** (use **^** or **v** to change active digit, press **START** for next digit) press **START**
7. Display shows **PLSEr** – press **START** then **^** to **oN**, then press **START**
8. Display shows **PLSNo d** – press **START** then **^** to **PULE**, then press **START**
9. Display shows **PLSdEr** – press **<** once, then press **^**
10. Display shows **REYPE** then press **Start**
Set to **5** (use **^** or **v** to change) press **START** when done
11. Press **<** button repeatedly until price is displayed to return to ready mode



BluKey Pro Serial/Pulse & BluKey Pulse Installation Steps

IMPORTANT: PayRange service requires data connection on a user's mobile device. Prior to installation, verify location has adequate cellular reception or a WIFI network that users can access.

Step 1: Prepare Machine

- Disconnect machine from power
- Open machine control panel to access controller board (behind display)

Step 2: Connect BluKey Pro to harness.

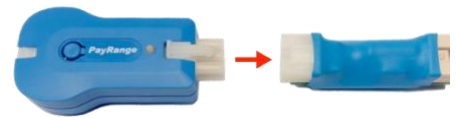
Connect C2 harness to BluKey Pro (If machine has card reader, connect provided PayRange card reader adapter harness to BluKey Pro)



or

Connect BluKey Pulse to Interface Module and harness.

Connect C2 harness to one end of the Interface Module and BluKey Pulse to the opposite end of the Interface Module.



Step 3: Connect to Debit Interface

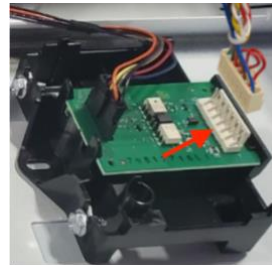
Plug the 7-pin connector from C2 harness into machine debit interface. If there is a card reader, disconnect it from machine debit interface first, connect it to PayRange credit card adapter, and then connect PayRange C2 harness into machine debit interface.

Pre 2021 models



(Debit interface is on main controller)

2021 and later models
(Debit interface is on auxiliary board)

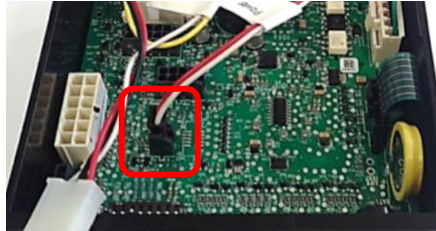


Step 4: Connect Power

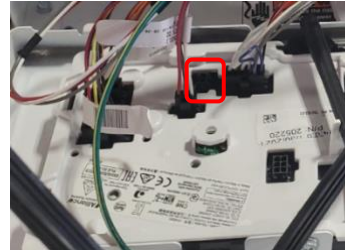
Connect 2-pin power harness to power connector on controller

Note: Machine may already have an extension harness plugged into the controller power connector that is typically unused. If power extension is unused, disconnect it from the board and install PayRange power harness. If power extension is being used, wires will need to be spliced (connection is polarity sensitive).

Pre 2021 models



2021 and later models



OPTIONAL COIN AUDIT

Coin pass-through is used to audit coin drop only, connection is not required.

Step 5: Connect Coin Pass-Through (Not applicable for 2021 and later Machines)

Coin pass-through is used to audit coin drop only (connection is not required.)

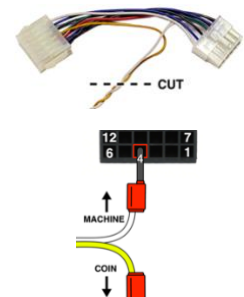
IMPORTANT: Do not connect if machine doesn't accept coin, has dual coin acceptors or cash reporting is not desired.

- Disconnect machine 12-pin coin/service harness from controller
- Plug coin pass-through into controller
- Plug machine 12-pin coin/service harness into pass-through connector



****For 2021 ACA Titanium Control models, PayRange harness must be modified, and coin wires spliced. Coin pass-through is used to audit coin drop only (connection is not required.)**

- On C2 harness, cut twisted yellow and white wire pair and discard coin pass through harness
- Locate 12-pin coin/service harness connected to Titanium controller and cut wire in pin 4 at least 2 inches away from connector
- Connect pin 4 wire portion still in connector to C2 white wire
- Connect C2 yellow wire to the portion of wire going to coin sensor.



Step 6: Configure Laundry Interface Module (BluKey Pulse Only)

Switches must be set to match install scenario. Incorrect settings may cause BluKey (BK) to behave unexpectedly.

Switch 1: (Optional Coin Audit)

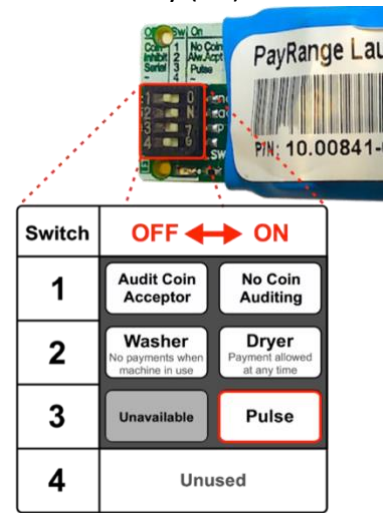
- **OFF** = Coin audit being used *(Coin Pass-Through used)
- **ON** = Machine does not accept coin or coin Pass-Through **NOT** used.

Switch 2:

- **Washers = OFF**
Payment disabled while machine in use.
- **Dryers = ON**
Payment always allowed for top-off (set OFF if dryer top-off is disabled)

Switch 3: Set **ON** for all machines.

Switch 4: Unused



Step 7: Affixing machine decals

- **Number Decal** – a unique number decal must be affixed to every laundry machine equipped with PayRange. Number decal not used for vending applications.
 - The decal should be placed on the machine in an area that is easily visible (near the coin slot is recommended) and that makes it obvious which machine the number is for.
 - Number machines left-to-right and top-to-bottom to make it easier for customers to locate machines. For stacked machines that require two devices, top machine should be lower number.

Note: Dexter and Maytag stacked machines only require a single device, and therefore should have a single number decal



- **First Purchase Free Decal** – this decal should be used only if the ‘New User Program’ is enabled on the operator account.
 - The New User Program allows brand new PayRange users to make a single transaction without adding funds and is a great way to incentivize mobile pay adoption.

To enable/disable feature, and set the maximum amount for transaction: login to Manage Console → select “Rewards” → select “New User Program”

Step 8: Power ON machine and register BluKey with PayRange App in front of machine after installation and testing after installation (Refer to BluKey Registration manual).

It is critical to test each BluKey device to verify proper installation, registration, and setup. Testing coin acceptor is also recommended, if applicable.

Recommended test procedure:

Repeat steps for all machines.

1. If machine accepts coins, insert a quarter, and verify price on display decrements by 25¢
2. Insert a card into the reader – verify normal card operation and machine can start.
3. Rapid advance machine to clear cycle
4. Select the machine in the PayRange App and swipe to pay – verify machine displays PayRange balance (or value of free purchase code) and can start.