

WaveRider Installation Speed Queen®

Single & Stack
CARD READY
MACHINES

Serial Mode
(MDC & Quantum)



DOC-WR-INST-SQ-007

Laundry Machine Types

This document applies to the WaveReader installation process for the following Alliance/Speed Queen/Heubsch type of machines:

FRONT/REAR CONTROL, CARD READY, SERIAL (MDC, Quantum)

For Example

Washers

- SWLY20

Dryers

- SDEY07 (electric)
- SDGY09 (gas)
- SSEY07 (electric)
- SSGY09 (gas)



If you are not certain that these instructions will apply to the machine you are installing, please contact MicroPayments Customer Service at:
Tel: 800-332-4835 Press 2

Installation Kit Contents & Required Tools

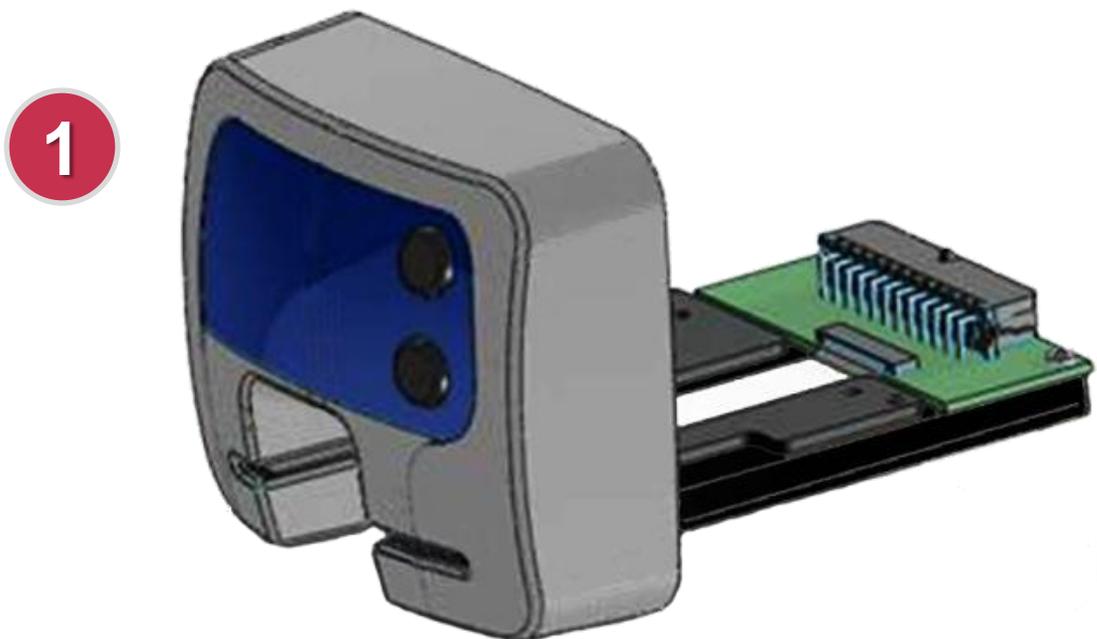
This following tables list the required tools & components for the installation process. If you cannot locate and/or identify any of the components listed above, please contact MicroPayments Customer Service at 800-332-4835 , then press 2.

Required Tools

- **Phillips Head Screwdriver (medium)**
- **Ratchet & Socket set**

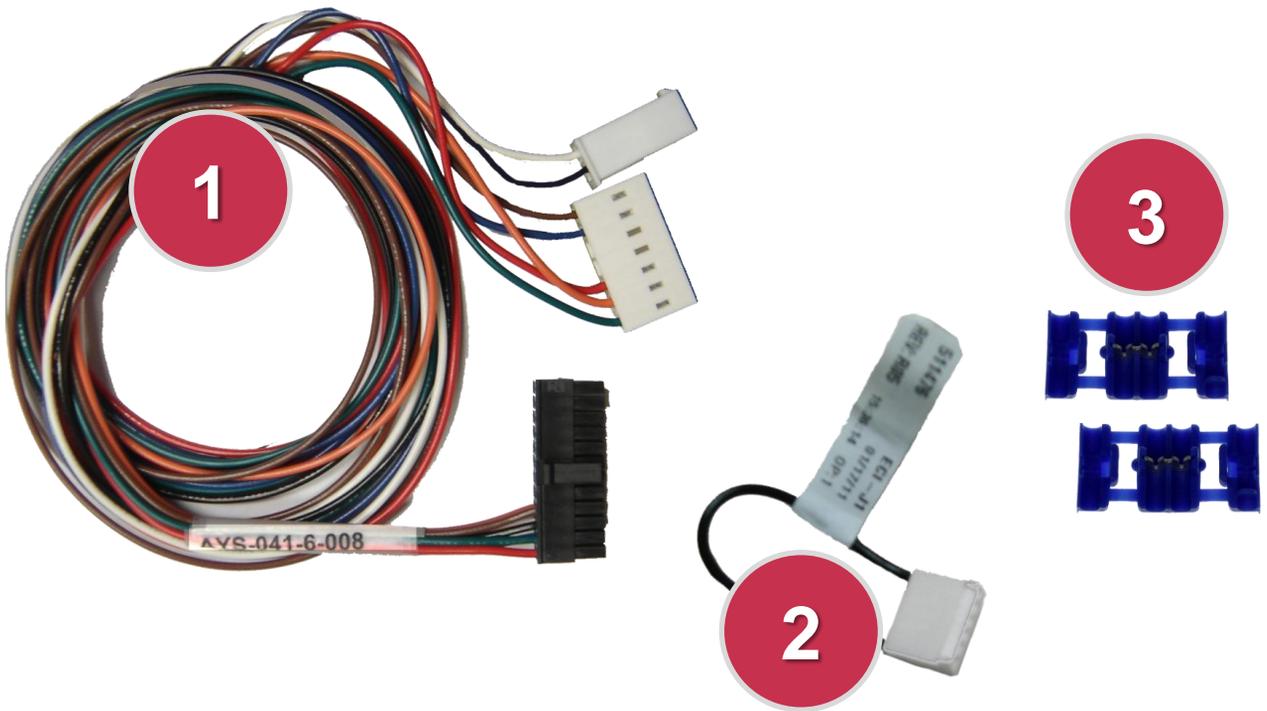
WaveReader

Item	Qty	Part Number	Description
1	1	WLAU-READER-MAG	WaveReader



Interface Harness

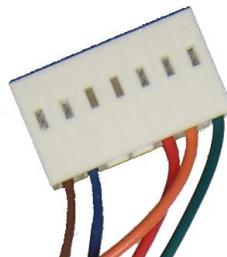
KIT-HRN-041-6-008			Harness Kit for Speed Queen Card Only
Item	Qty	Part Number	Description
1	1	AYS-041-6-008	Cable, Speed Queen MDC Card Only
2	1	MFP-175009	SLIM SQ JUMPER 776P3/511476
3	2	CNR-53440-1	TAP SPLICE, 18-14 AVGAMP53440-1 <i>(These may not be used)</i>



To WaveReader



To Control Board



To Power

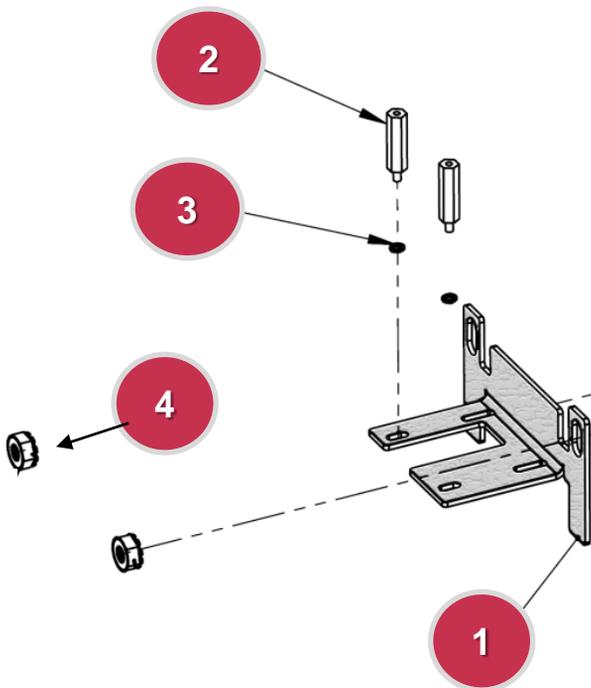
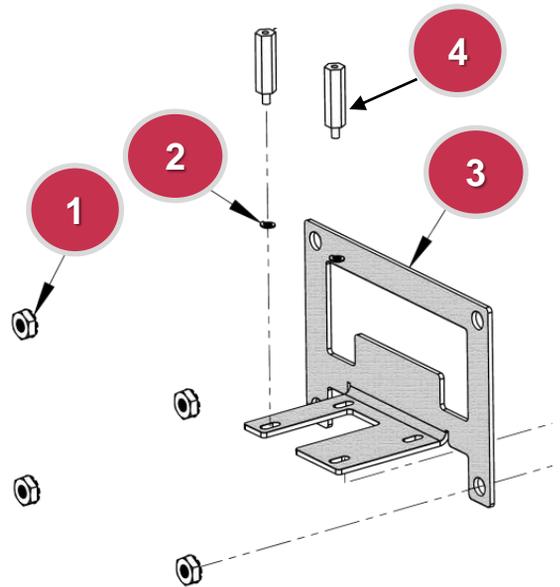


To Reader-Present
 Jumper on Control
 Board



Bracket Kits

REAR CONTROL MACHINES			
KIT-050-6-010L (REAR CONTROL)			Speed Queen MDC Bracket Kit
Item	Qty	Part Number	Description
1	4	NUT-10X32SHKEP	10-32 Hex Nut with Tooth Washer
2	2	WAS-#4L	SPLIT LOCK WASHER #4 ZINC PLATED
3	1	MFP-050-6-010L	Speed Queen Top-load Rear Control Card Ready
4	2	STF440X.875HMF	2 440 HEX STANDOFF .875L



FRONT CONTROL MACHINES			
KIT-050-6-019L (FRONT CONTROL)			Speed Queen MDC Bracket Kit
Item	Qty	Part Number	Description
1	1	MFP-050-6-019L	Speed Queen Frontload, Front Control Card Ready
2	2	STF440X.875HMF	2 440 HEX STANDOFF .875L
3	2	WAS-#4L	SPLIT LOCK WASHER #4 ZINC PLATED
4	2	NUT-04X20SHKEP	Machine Screw Nut W/Tooth Washer 1/4"-20 Thrd



!! WARNING !!

MAKE SURE THAT ALL POWER HAS BEEN REMOVED FROM THE MACHINE BEFORE ATTEMPTING TO INSTALL ANY HARDWARE OR CABLING!

Preparation

Disconnect the laundry machine from all power sources before performing any of the following steps.

Installation

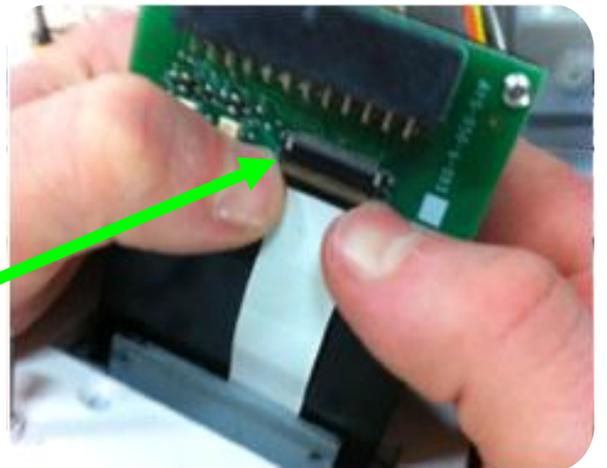
1

Unlock the service panel so that you can access the control board and CARD-READY opening of the machine.



5

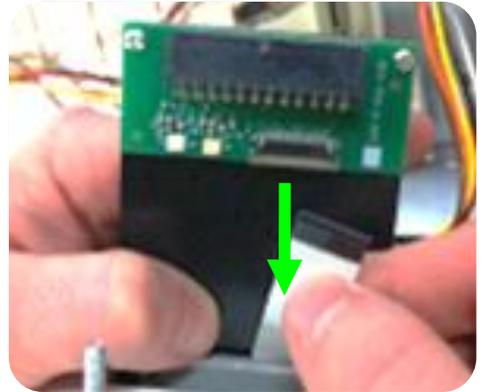
Locate the ribbon cable connector on the Circuit Board at the rear of the WaveReader. Using your thumb nails and placing them on the wings of the small tabs, pull the slide downward as shown



6

Gently pull the white ribbon cable out of the connector.

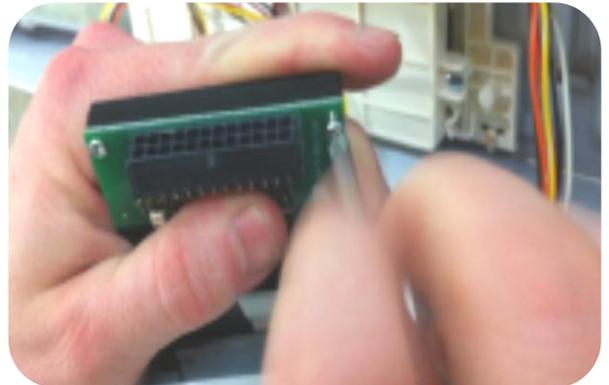
Please be careful to pull the ribbon cable from the direction shown.



7

Using a small screwdriver, remove the 2 Phillips head machine screws from the Circuit Board.

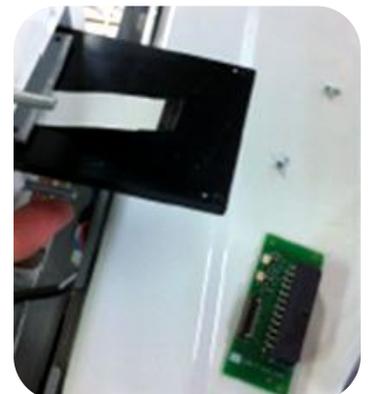
Make sure to keep track of them.



8

Detach the Circuit Board from the WaveReader.

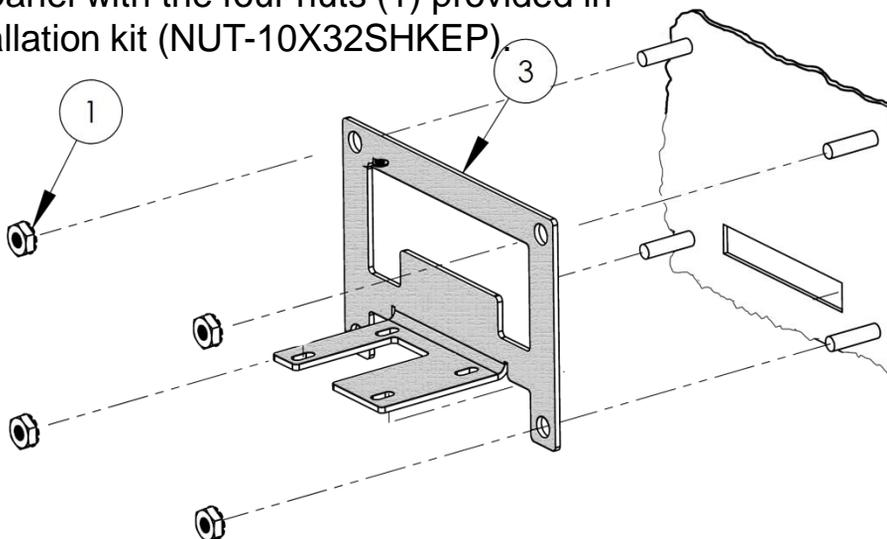
Keep it close by, as you will need it soon.



8

For **REAR CONTROL** machines:

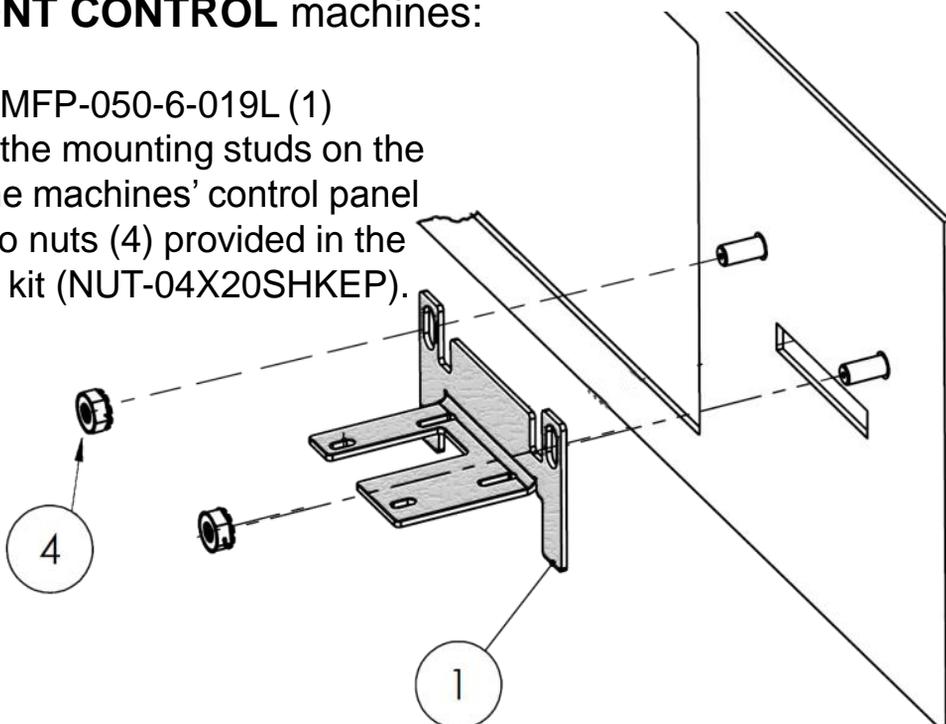
Attach the MFP-050-6-010L (3) bracket to the mounting studs on the inside of the machines' control panel with the four nuts (1) provided in the installation kit (NUT-10X32SHKEP).



8

For **FRONT CONTROL** machines:

Attach the MFP-050-6-019L (1) Bracket to the mounting studs on the inside of the machines' control panel with the two nuts (4) provided in the installation kit (NUT-04X20SHKEP).



Note: for STACK machines, this will be done twice.

Installation

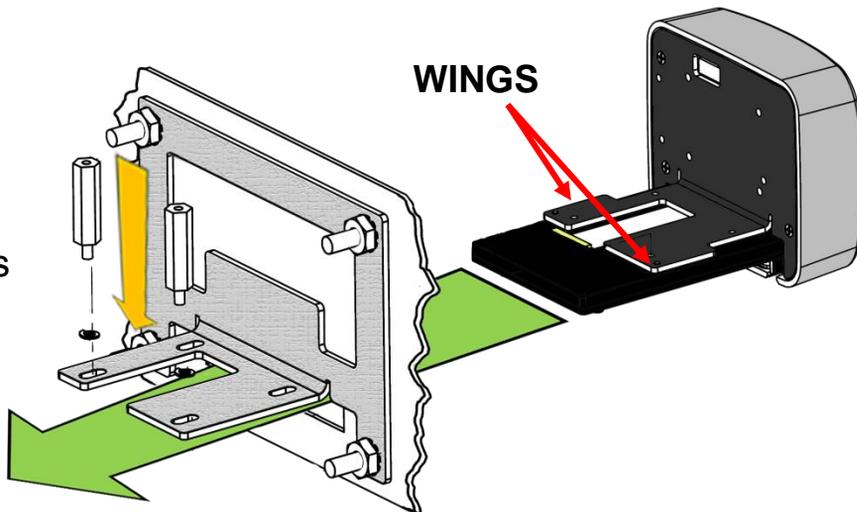
11

For **REAR CONTROL** machines:

The Wave Reader has metal 'wings' that extend into the machine, and attach to the mounting bracket with stand-offs.



Line the reader's wings with the bracket's wings and using the supplied stand-offs and lock-washers to secure the reader to the machine.



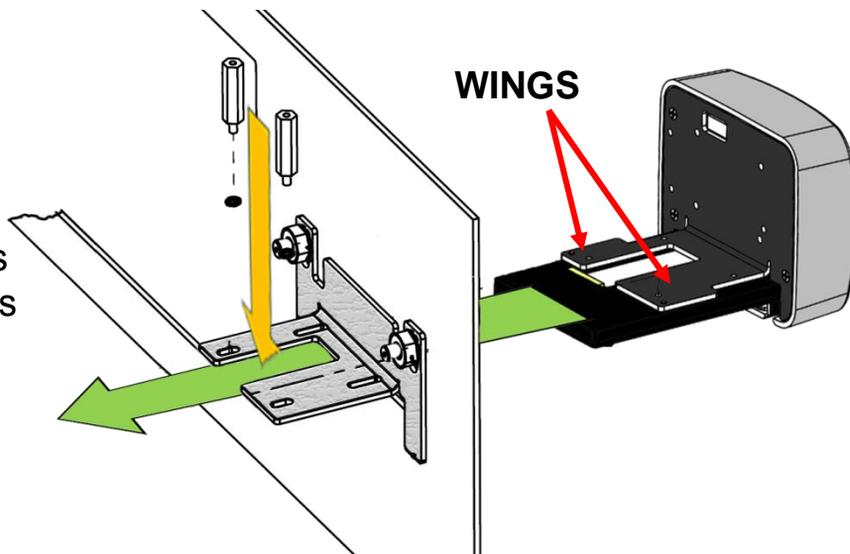
14

For **REAR CONTROL** machines:

The Wave Reader has metal 'wings' that extend into the machine, and attach to the mounting bracket with stand-offs.

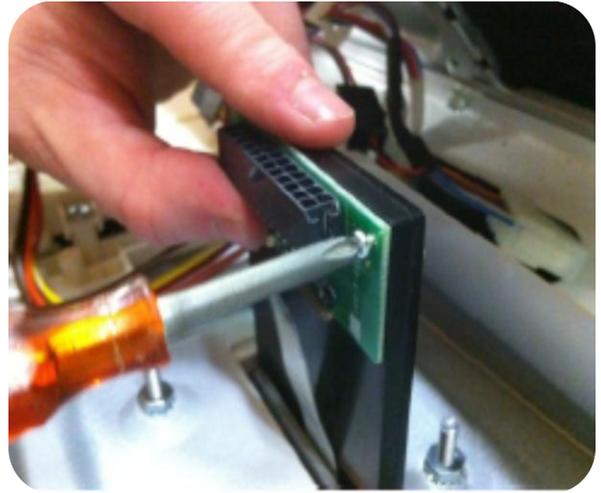


Line the reader's wings with the bracket's wings and using the supplied stand-offs and lock-washers to secure the reader to the machine.



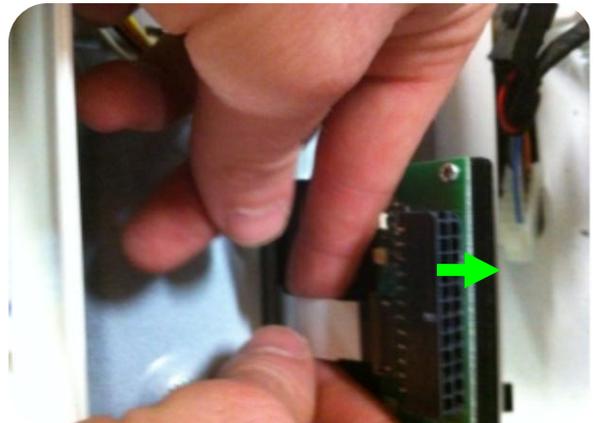
12

Re-attach the Circuit Board to the card reader using a small Phillips head screw driver.



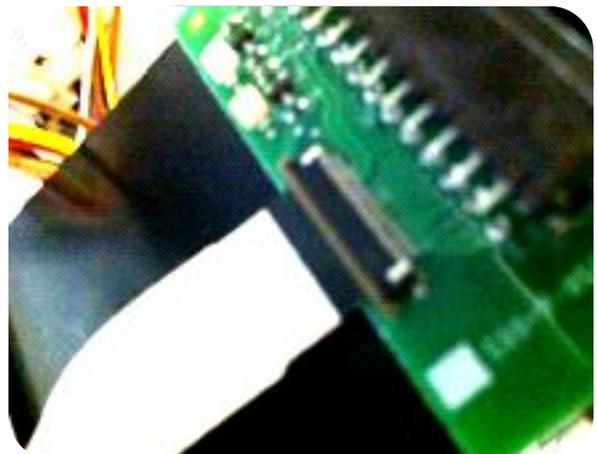
13

Slide the Ribbon Cable into the ribbon connector slot located on the Circuit Board. Using your thumb nail, lock the slide back into place by pushing it back in the direction of the arrow.



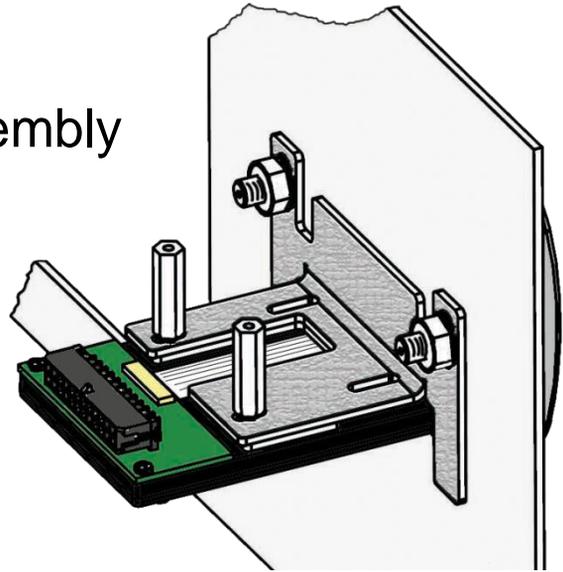
14

Check to see that the ribbon cable is secured evenly and not at an angle as not to cross connections and short out a wire.



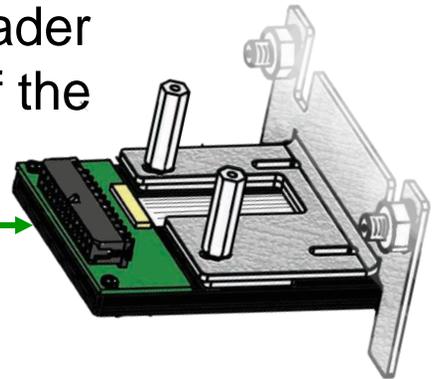
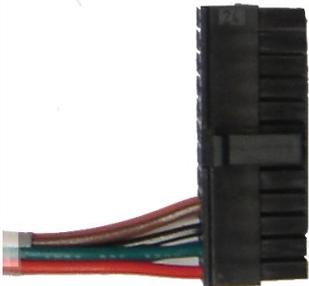
3

The completed assembly looks like this...



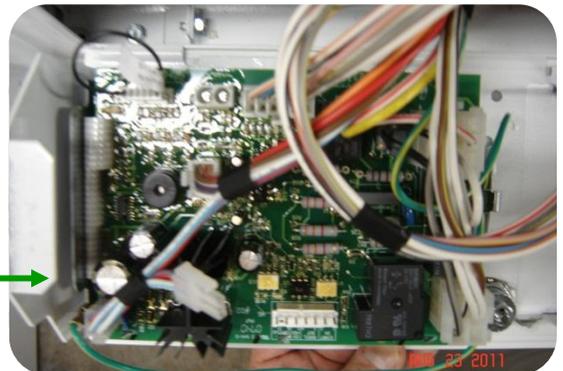
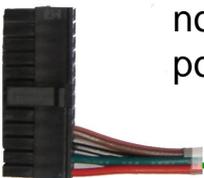
3

Connect the WaveReader harness to the back of the card reader.

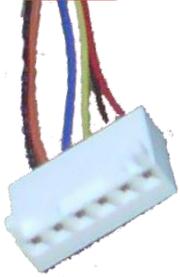


4

Route other ends of the WaveReader harness to machine control board. Please make sure there are no pinches, kinks, or chafing points along the route.

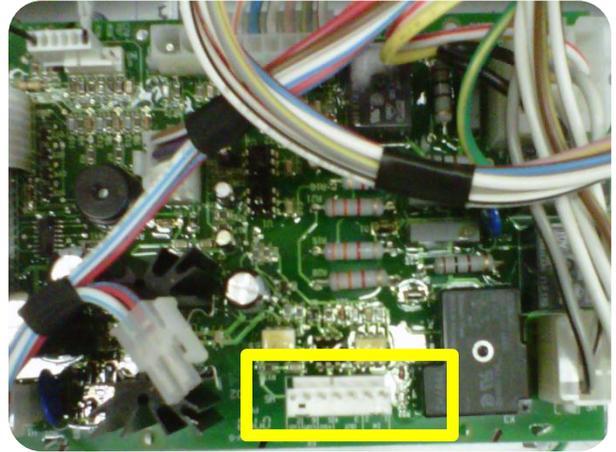


Installation

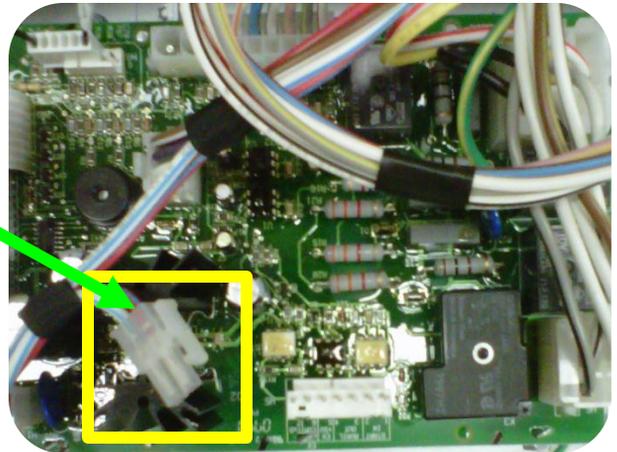
8

On the main panel, connect **J3** of the WaveReader harness to the **H5** connector on the Speed Queen control board, in the yellow box.

On some boards (e.g. Quantum) the connector may be labeled H4.

**9**

On the main panel, connect **J2** of the WaveReader harness to the **H1** connector on the Speed Queen control board, in the yellow box.

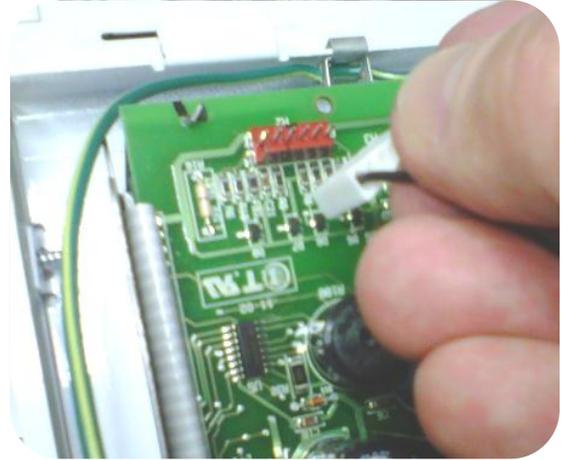
**10**

Locate the **Reader-Present / Serial Jumper** that was supplied and install it on the control board. On most control boards the connector is labeled H8.



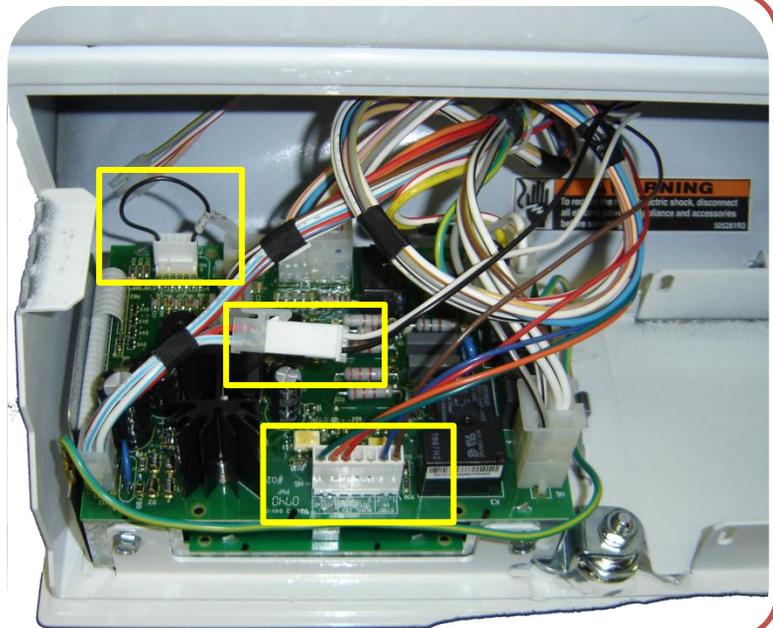
10

Locate the **Reader-Present / Serial Jumper** that was supplied and install it on the control board. On most control boards the connector is labeled H8.



11

When completed, the wiring assembly should look like this...



12

Re-latch all service panels that are required for testing (before securing card reader and dressing all harnesses).



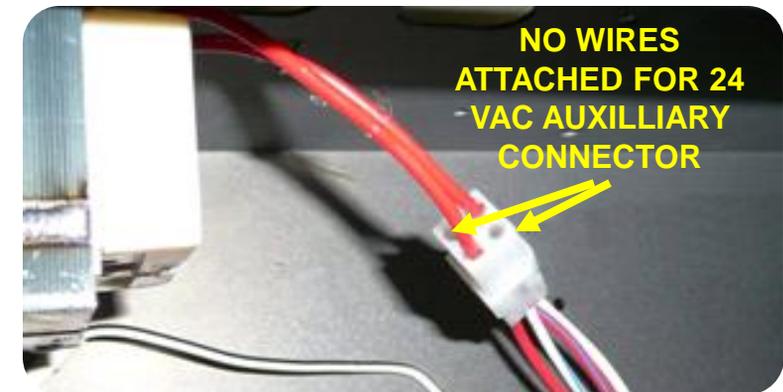
13



Apply power to the laundry machine for testing purposes. If the WaveReader does not power-up:



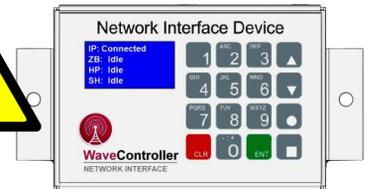
Make sure 4-position connector from machine transformer (red wires) has all 4 positions loaded with wires. If only 2 positions are loaded (as in picture), there is no power to the reader.



Using blue splice connectors, included with the WaveReader cable harness, splice together like-colored wires on the machine side of the 4-position connector (red/blue-red/blue & white/blue-white/blue).

14

Before the WaveReader has been fully secured, it should be **tested** to ensure that all components are operating correctly.



IMPORTANT

The WaveContoller has to be operating and the machines linked to it before testing can be performed.

15

1. Swipe a card, and wait for the transaction to be approved



2. Verify that the funds are available and it is ready to start.

3. Select a cycle and press



16



Disconnect Power from the laundry machine before proceeding.

17

Using cable-ties and cable-tie mounts, secure all wiring harnesses to prevent pinching, wire-strain, and chafing.



Failure to perform this step could void the product warranty.



11

Apply the self-adhesive sticker that displays the accepted card brands (supplied) in a clearly visible location .



This label is required by the credit card issuers.
If you require additional stickers, contact us at 800-332-4835 as soon as possible.

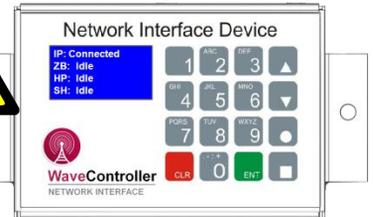
22



Apply power to the laundry machine.

23

Once the unit has been reassembled, the entire WaveReader needs to be **tested, once more** before being returned to active service.



IMPORTANT

*The **WaveController** has to be operating and the machines linked to it before testing can be performed.*

24

1. Swipe a card, and wait for the transaction to be approved



2. Verify that the funds are available and it is ready to start.

3. Select a cycle and press



21

Lock the service panel.

