

# WaveRider Installation

**INTERNAL MOUNTING**



**LG**

**SINGLE MACHINE  
CARD ONLY**



## Laundry Machine Model Numbers

This document applies to the WaveReader installation process following LG model numbers:

### Washers

GCW1069CS

### Dryers

GD1329CES



**If you cannot locate the model number of the machine you require in the lists above, please contact MicroPayments Customer Service at:  
Tel: 800-332-4835 Press 2**

# Required Tools & Installation Kit Contents

The tools required for the installation process are as follows:



- **#T-20 Pin-in-Star Torx Driver**



- **Phillips Head Screwdriver (medium)**



- **Small Flat-Head Screwdriver**

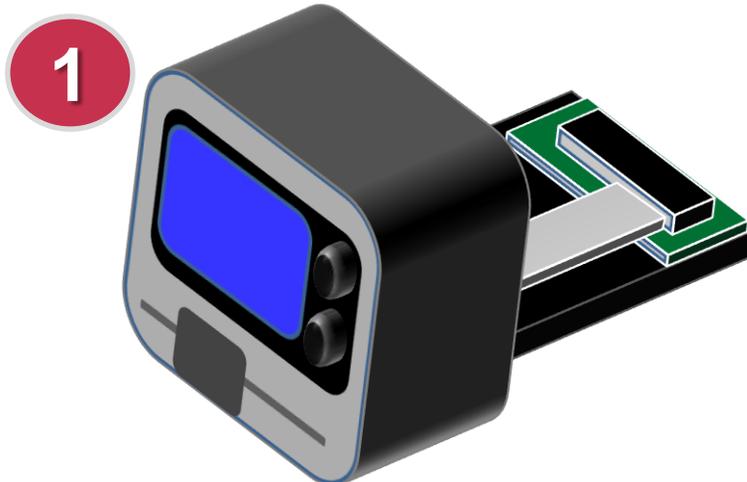


- **11/32" Ratchet or Nut Driver**

The following tables list the required 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.

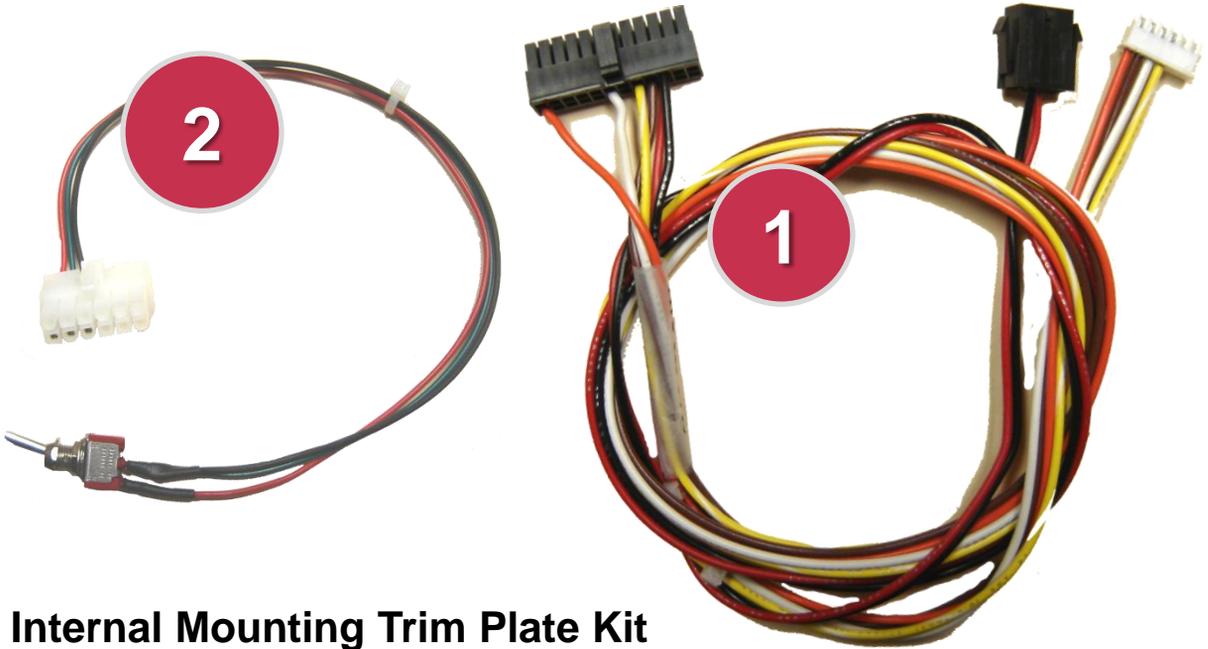
## WaveReader

Item	Qty	Part Number	Description
1	1	WLAU-NNNNNN	WaveReader



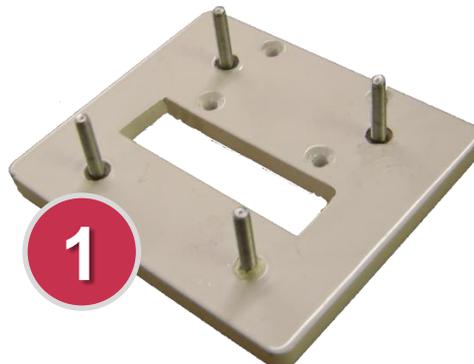
## Interface Harness

KIT-HRN-050-6-008			Harness Kit for LG – Card Only
Item	Qty	Part Number	Description
1	1	ASM-050-6-008	LG Card Only Interface Cable
2	1	AYS-050-6-008	Cable, Service Mode Switch - LG



## Internal Mounting Trim Plate Kit

KIT-050-6-008			Bracket Kit for WaveReader Surface Mount
Item	Qty	Part Number	Description
1	1	MFP-050-6-017-001	Bracket – LG Wave
2	4	NUT-8X32SHKEP	Nut, 8x32, Steel, Hex KEP (not pictured)
3	2	SRW-632X..312FMC	Screw 632x.312 FH PHIL M100 (not pictured)





**!! 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.

Only perform the following steps after the WaveReader has been physically installed in the machine.

**1**

Carefully remove card label decal using small flat head screw driver.  
Discard Decal.



**2**

Pull out and up on the dispenser drawer, detaching it from the machine.



**3**

Locate the two Pin-In-Star security screws, one on each side of the control panel. Use the T20 Security Pin-In-Star Driver. Set the screws aside keeping them close at hand.



**4**

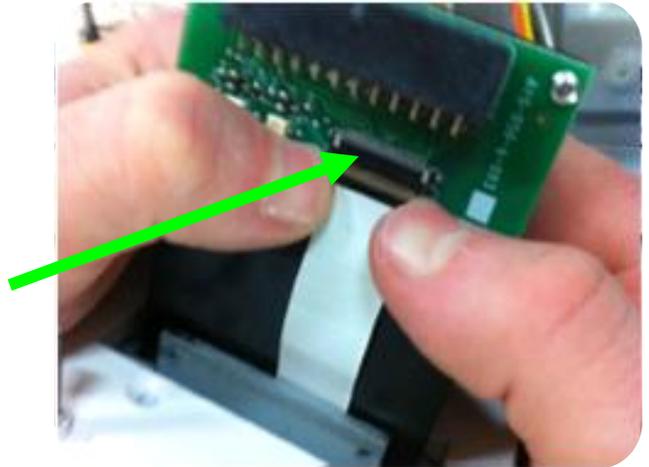
Insert the WaveReader card guide through the LG Bracket Adapter. Using the provided 6-32 Flat Head Phillips Machine Screws attach the LG Bracket Adapter onto the rear of the WaveReader in the 4 tapped holes.



## Installation

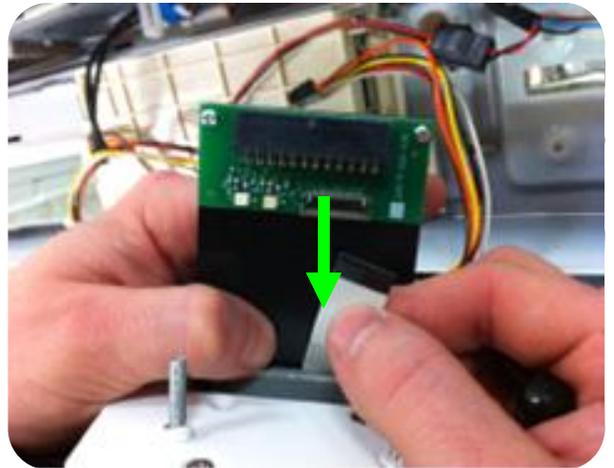
**5**

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**

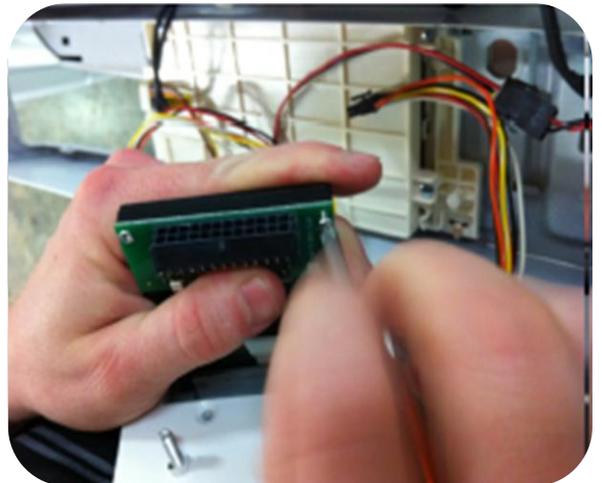
Gently pull the white ribbon cable out of the connector.

**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.



**9**

Detach the control panel from the machine and flip downward as show, exposing the controller box and wiring harness.



**10**

With the WaveReader attached to the LG Adapter Bracket and the Circuit Board Removed, slide the card guide and ribbon cable through the front of the control panel as shown.



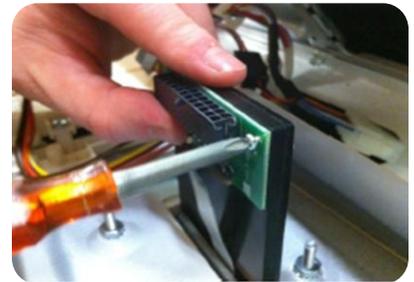
**11**

Using the provided 8x32 Locking Nuts, bolt in the Adapter Bracket to the Control Panel.



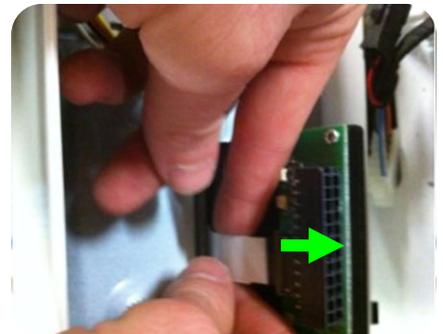
**12**

Reattach the Circuit Board to the Card Guide using a small Phillips head screw driver.



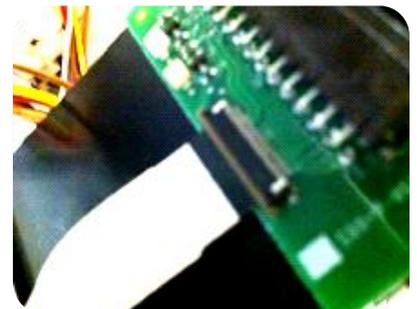
**13**

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.



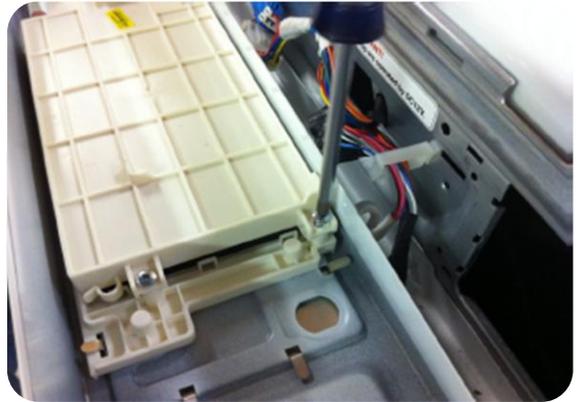
**14**

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.



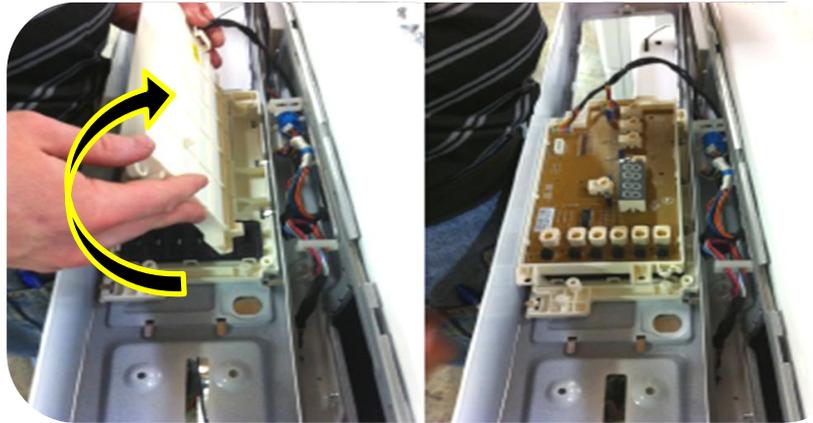
**15**

With the Control Panel flipped down, locate the white controller box. On the controller box will be 4 Phillips head machine screws located 2 to each side. Remove the screws from the unit and set aside for re-installation



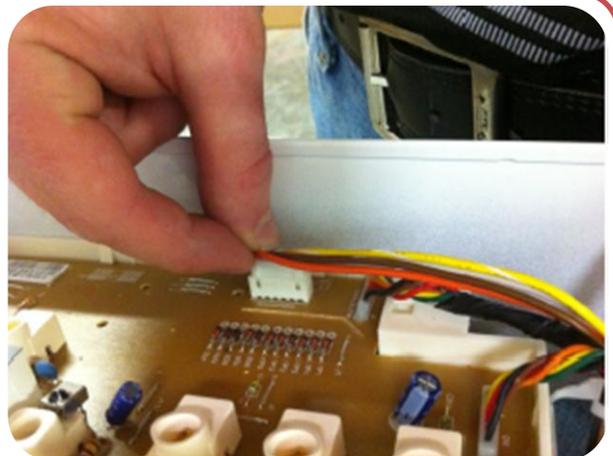
**16**

Flip the controller box cover over as shown.



**17**

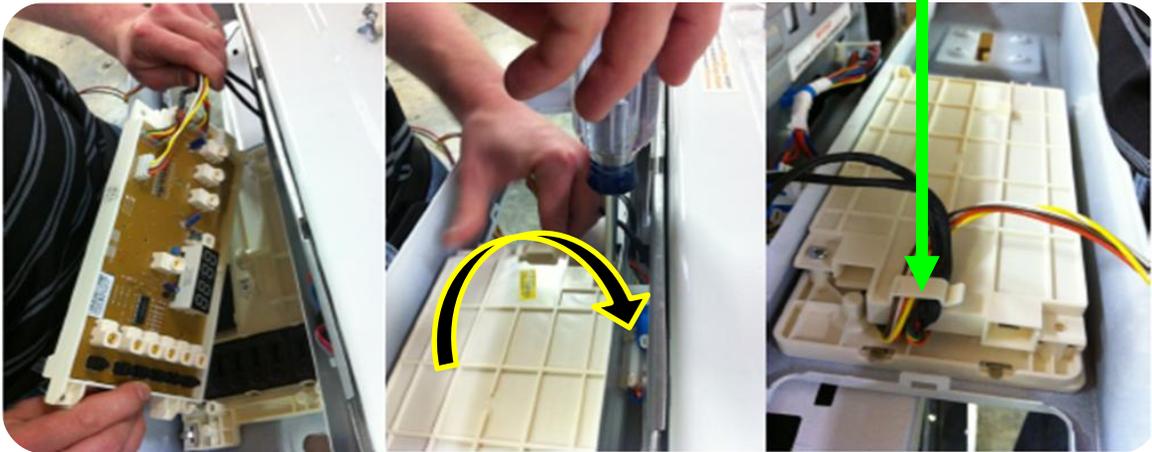
Looking down on top of the LG Controller board, in the bottom left hand corner find the connector labeled "ESUDS OUT PIN2."



Using the **WaveReader Interface Cable**, locate the connector with four wires attached: brown, orange, yellow, and white. Plug the connector into "ESUDS OUT PIN2."

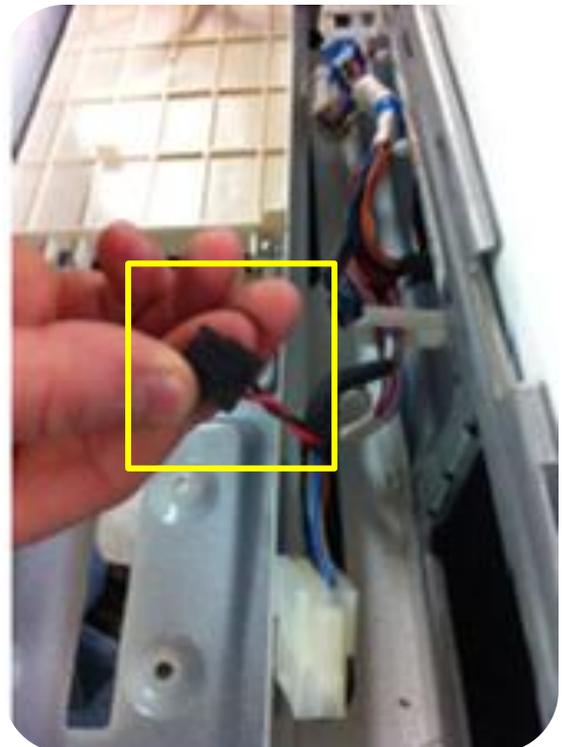
## 18

Keeping the wires together, flip the controller box cover back over to its original position. Replace all 4 Phillips head machine screws previously removed. Run wires through the supplied wire catch as shown.



## 19

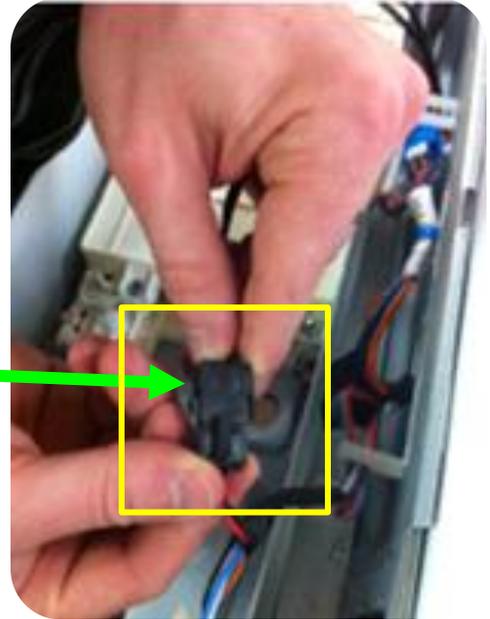
On the machine side, there will be two identical black connectors. Locate the one with the **black and red wires** only, as shown.



**20**



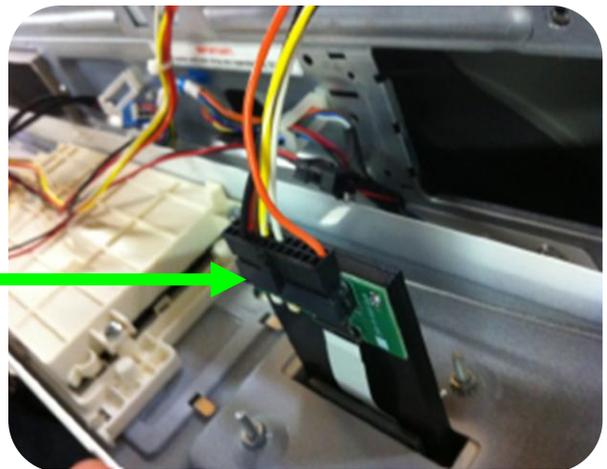
Find the mating **black connector** on the **WaveReader Interface Cable** and attach the two together.



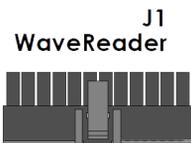
**21**



Attach the **J3 (Black) connector** into the mating connector on the back of the WaveReader Board as shown.



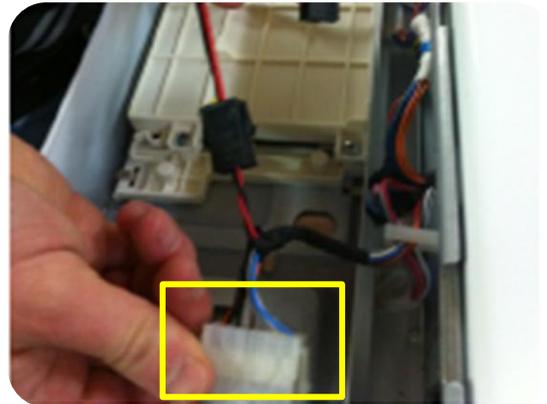
The connector should snap once in place.



## Installation

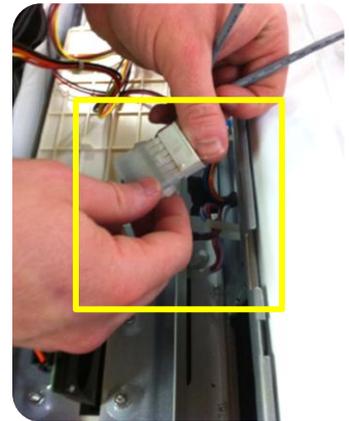
**22**

On the machine side, find the **white connector** with blue, white, gray, brown, black, and orange wires.



**23**

Plug the **white connector** of the **Service Mode Switch Cable** into the white connector on the machine side.

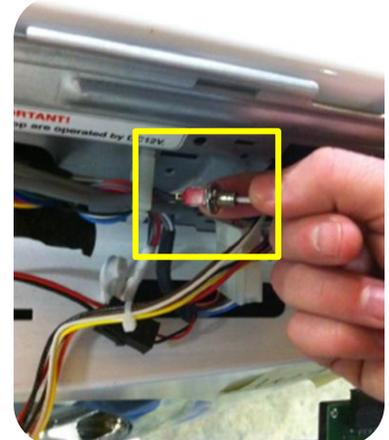


**24**

Run the wires so that they are out of the way, but you can still reach the switch. **Do not let wires freely touch the inside of the machine.**



Flipping the switch will engage/disengage service mode on the machine.



**25**

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



## 26 Plug-In and Power up the LG Washer/Dryer.

Depending on how the Service Mode Switch is flipped, the machine may be in Service/Programming Mode.

If the display does not read “L9C1” then lower the front panel and flip the Service Switch position.



### Important Programming Notes

**Pricing is independent from the WaveRider System** and is controlled by the machine. **Set prices prior to final assembly of the Control Panel.** Please refer to the LG Owner’s Manual provided with the machine for instructions on Setting Prices.

Do **NOT** place the machine in card mode. Currently the WaveRider system interfaces with the machine **through coin mode**. Once the machine has been placed in card mode, it is difficult to reverse.

**Super Wash** must be turned **OFF**. Please refer to the LG Owner’s Manual provided with the machine for instructions on Enabling/Disabling Super Wash.



Not in Service Mode...



In Service Mode...

**27**

Place the Control Panel back into its original position, making sure all wiring harnesses are clear and out of the way



**28**

Align the Control Panel with the underlying brackets and screw in the 2 (one to each side) Pin-in-Star Security screws using the #20 bit Security Driver.



**29**

Reinsert the dispenser drawer back into the machine.





## Finished assembly.

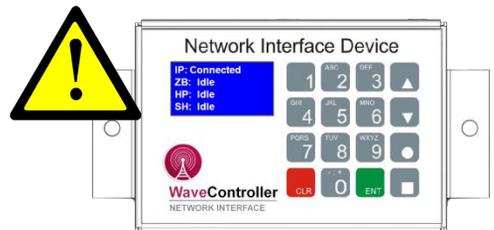
**31**

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



**32**

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



### **IMPORTANT**

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