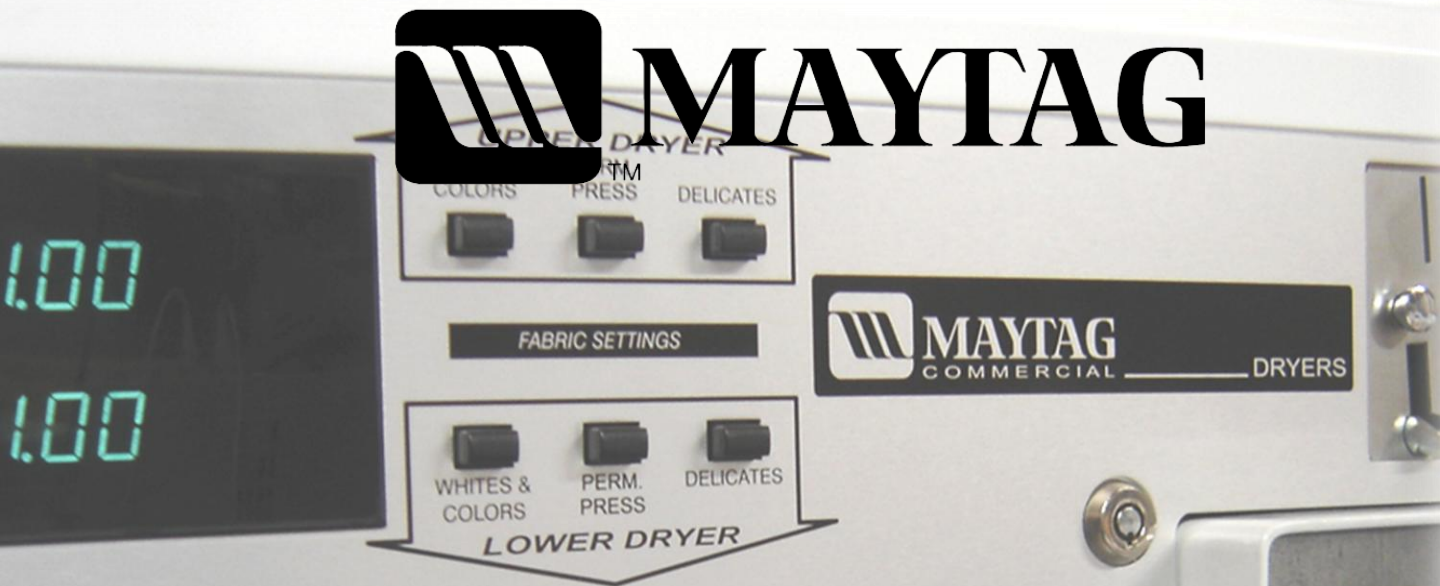


WaveRider Installation



**PULSE MODE
COIN & CARD**



INTERNAL MOUNTING

Laundry Machine Model Numbers

This document applies to the WaveReader installation process following Whirlpool/Maytag model numbers operating in **PULSE MODE**:

Washers

Dryers

MLE/MLG24PD



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)**



- **3/16" Drill Bit**



- **3/4" Drill Bit
(or Step Drill bit to match)**



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



- **Electric Drill – Heavy Duty**



- **Jig-Saw (w/Bi-Metal blades)**

Optional

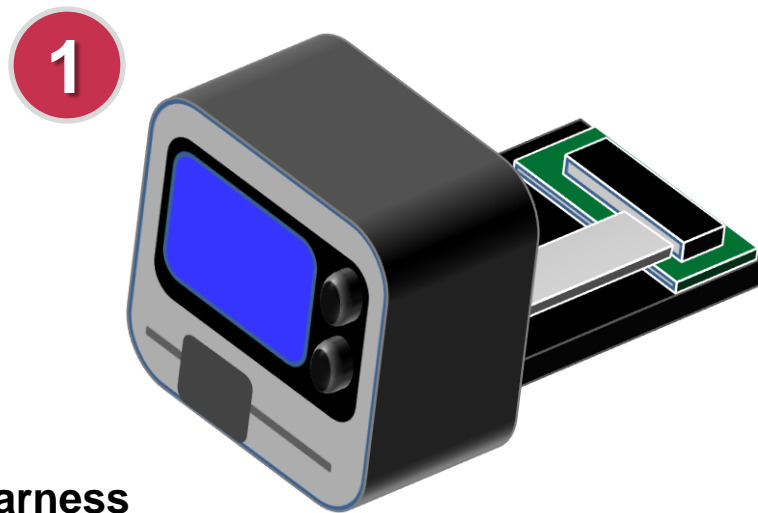
- **Hydraulic Punch with
3.0" Dia. Knockout**



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.

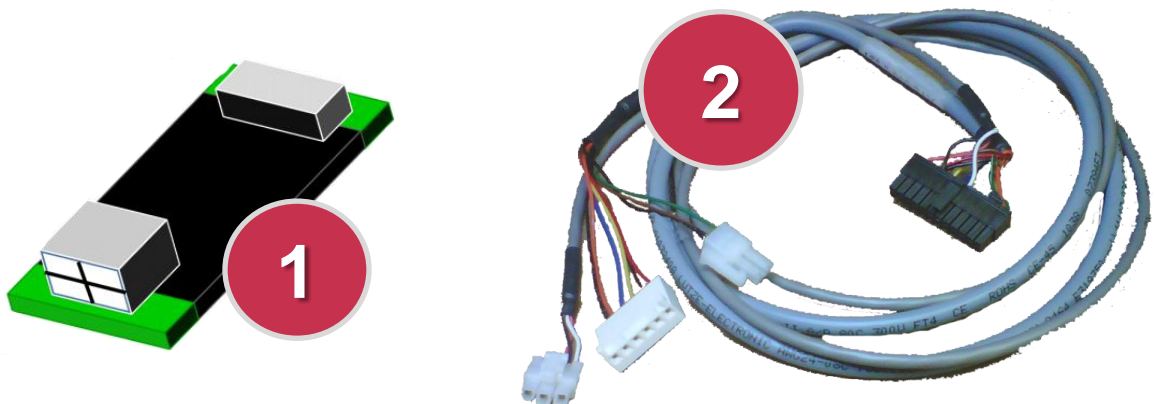
WaveReader

Item	Qty	Part Number	Description
1	1	WLAU-NNNNNN	WaveReader



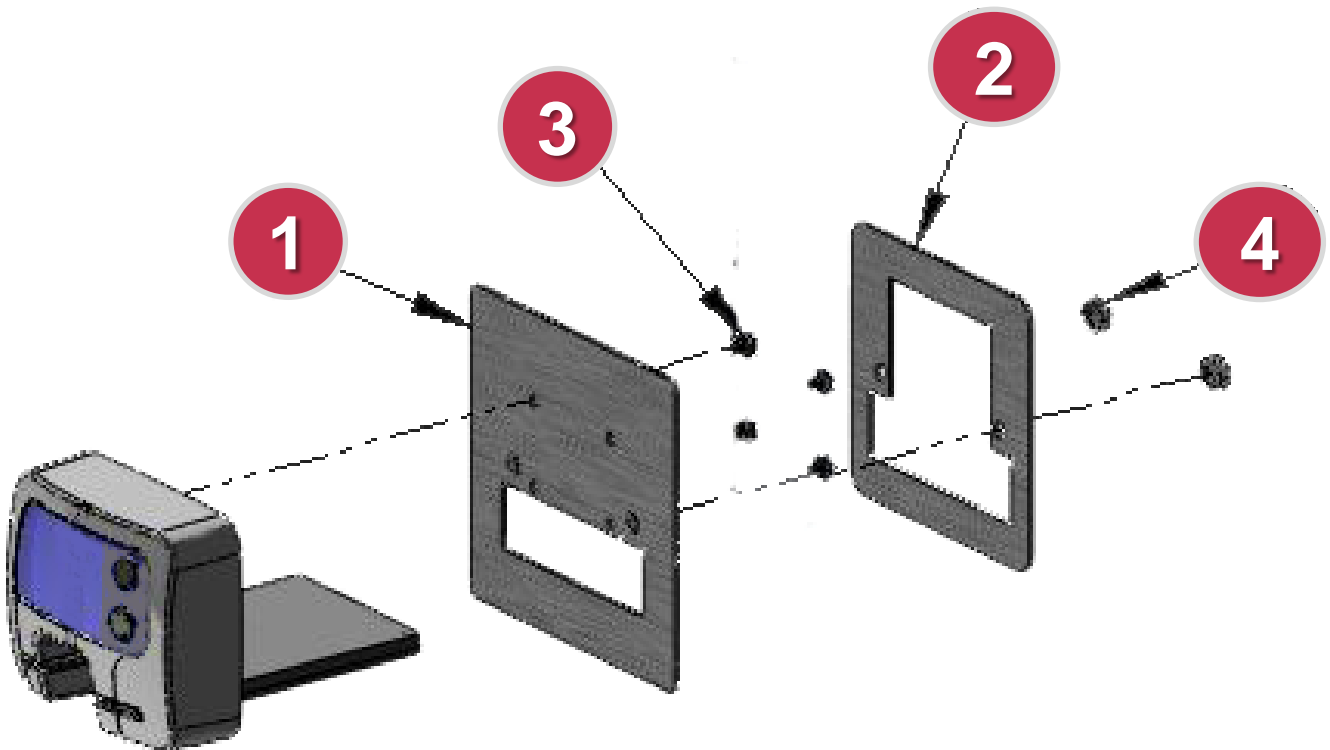
Interface Harness

KIT-HRN-050-6-011			Harness Kit for Maytag Coin & Card
Item	Qty	Part Number	Description
1	1	ASM-050-6-005	Stuffed Maytag Coin Drop board
2	1	AYS-050-6-021	Cable, Maytag PC/CD for WR



Internal Mounting Trim Plate Kit

KIT-050-6-017			Bracket Kit for WaveReader Surface Mount
Item	Qty	Part Number	Description
1	1	MFP-050-6-017-001	Surface Mount – Front Cover Plate
2	1	MFP-050-6-017-002	Surface Mount – Rear Backing Plate
3	4	NUT-8X32SHKEP	Nut, 8x32, Steel, Hex KEP
4	2	SRW-632X.125PM	Screw 6-32 Thread x 1/8" Pan-Head, Phillips



There are two methods of installing a WaveReader (internally) into a coin & card laundry machine. They are:

- **Internal Mounting – Trim Plate Kit**
- **Internal Mounting – Direct on Machine Panel**

Both methods are detailed in the following pages. You should decide which method works best for you. Both methods require certain minimum clearances (**surface area** and **internal depth**) to accommodate the WaveReader. These minimum dimensions are detailed on the following page.

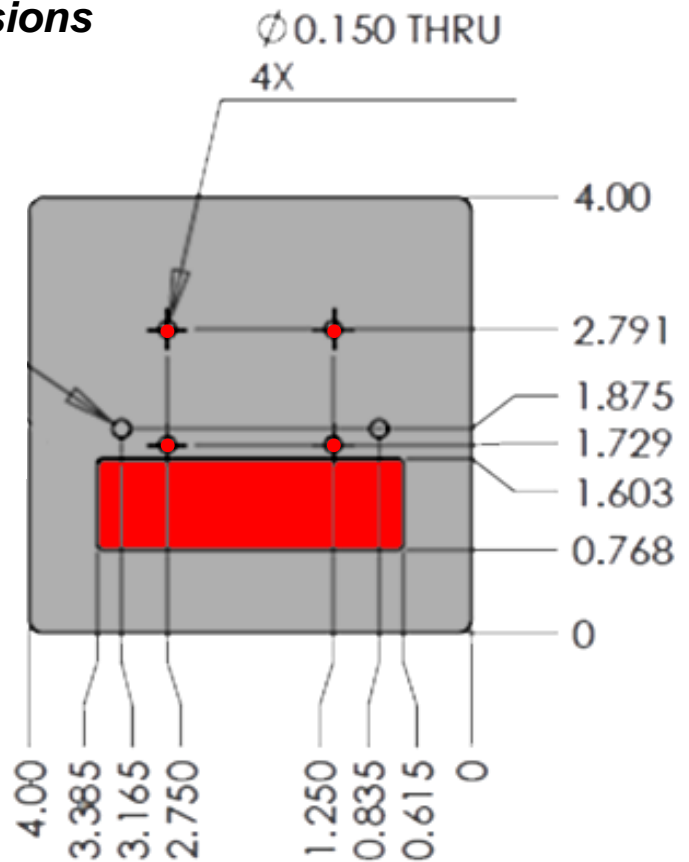
Internal Mounting

Minimum Required Dimensions

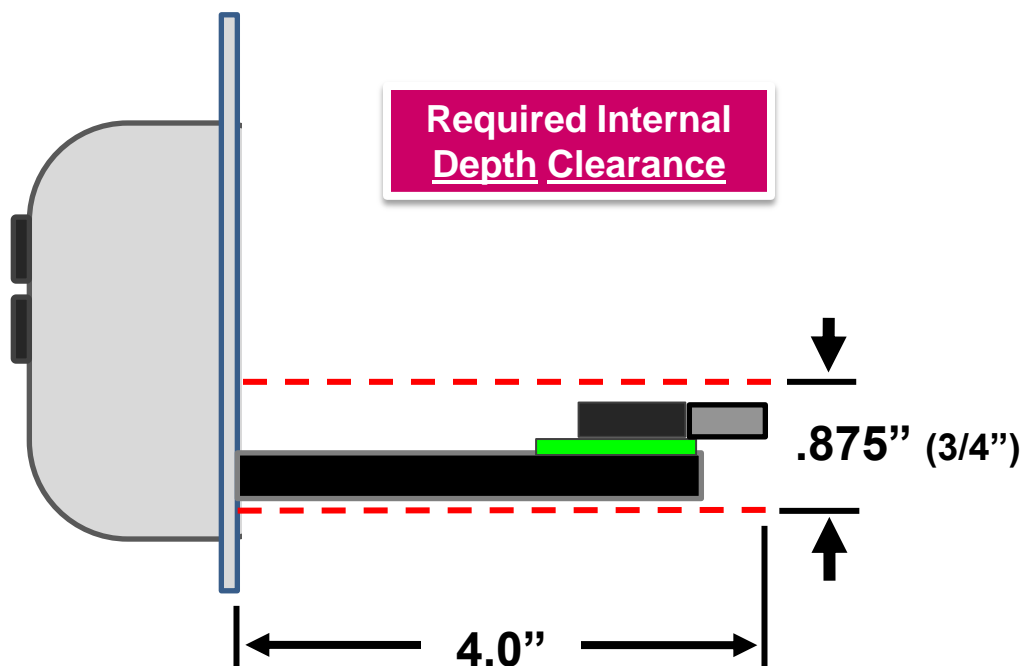
**Required Surface Area
and Cutaway Openings**

 = Required surface space

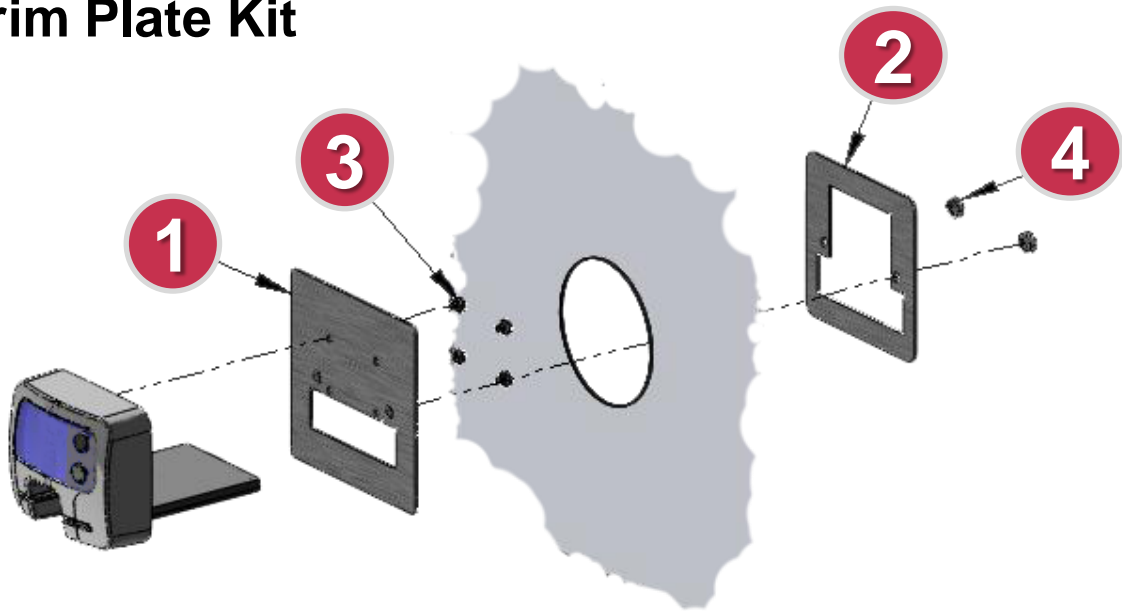
 = Cut/Drilled Opening



**Required Internal
Depth Clearance**



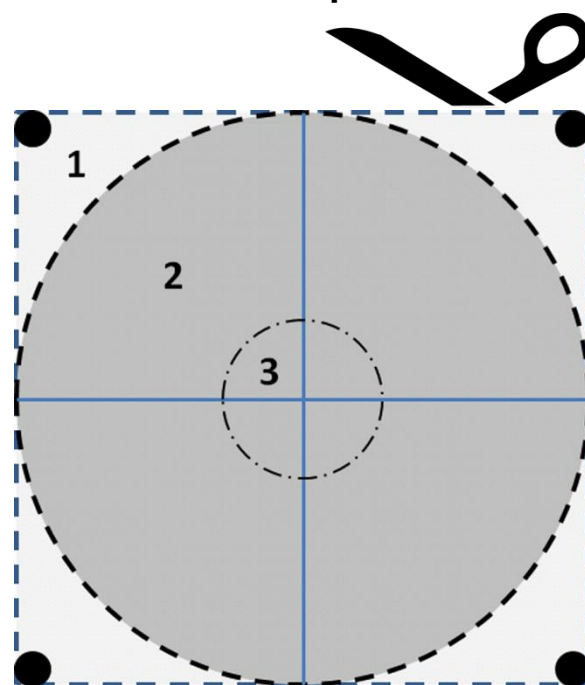
Internal Mounting - Trim Plate Kit



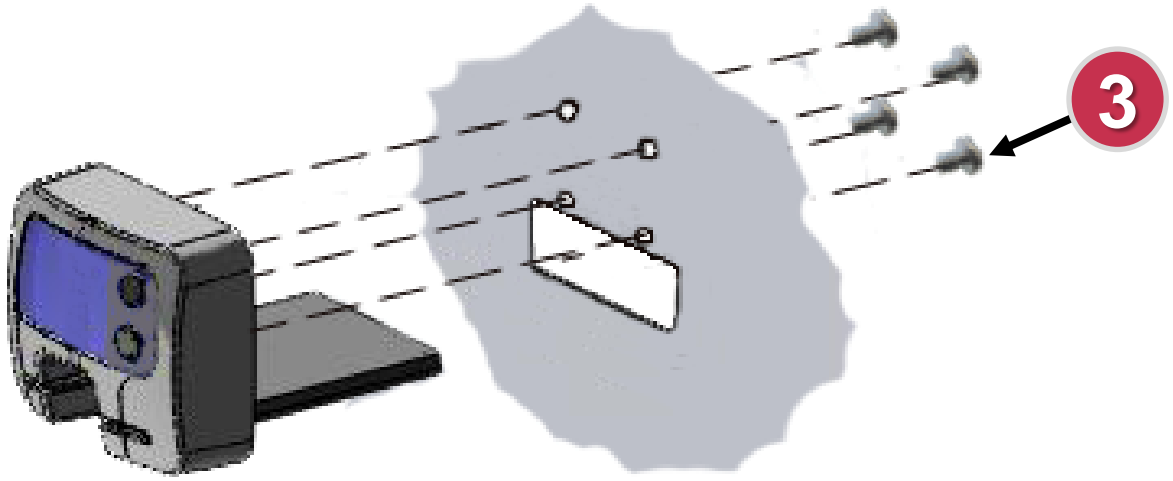
For Internal mounting using the trim plate kit, please perform the following steps:

1. **Locate a space on the machine that will properly accommodate the WaveReader.**
2. Using the template supplied on this page, cut out the area inside the dashed lines [1]. The opening should be **3" square**. The darker gray circles can be used a drill locations. After drilling, a jig-saw can be used to finish the cuts.
3. Alternatively, you can drill the center hole [3], and use a **3" circular** punch to remove the area marked by the dashed, interior circle [2].
4. After making the cut, attach the WaveReader to the Surface Mount Cover Plate (1) with the **four screws (3)** provided in the kit.
5. Insert the WaveReader & Front Plate through the opening.
6. Attach the **Rear Backing Plate (2)** with the **two nuts (4)** provided in the kit, and finger-tighten.
7. Make sure to **level the Wave Reader and Front Plate** on the machine and fully tighten the Rear Backing Plate nuts with a 11/32" Nut Driver or Socket.

**Trim-Plate Mounting
Template**



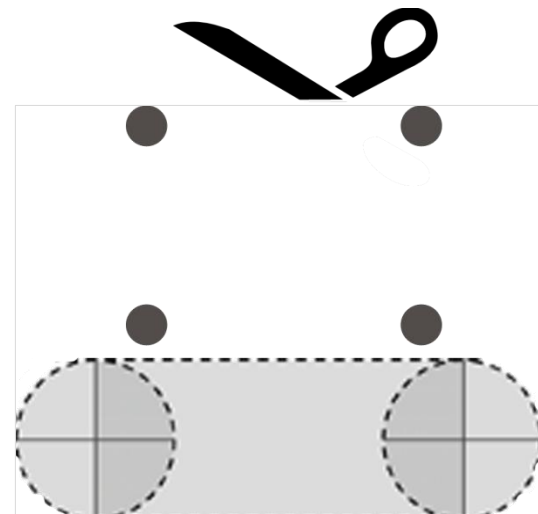
Internal Mounting – Direct on Machine Panel



For Internal mounting directly onto the machine, please perform the following steps:

1. **Locate a space on the machine that will properly accommodate the WaveReader.**
2. Using the template supplied on this page, cut out the area inside the dashed lines. The opening is **2.75" wide and .75" high**. The dashed gray circles can be used as drill locations for the $\frac{3}{4}$ " drill (or progressive) bit. After drilling, a jig-saw can be used to finish the cuts.
3. The black circles above the gray area should be drilled using the $\frac{3}{16}$ " bit.
4. Insert the WaveReader through the opening. The four drilled holes should line up with the mounting holes in the back of the WaveReader.
5. After making the cut and drilling the holes, attach the WaveReader to the machine with the **four screws (3)** provided in the kit. Do not fully tighten the screws.
6. Make sure to **level the Wave Reader** on the machine and fully tighten the mounting screws.

Direct-on-Machine Template





!! 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

Remove all screws and fasteners so that you can remove the front panel and access the inside of the machine and the control board



?

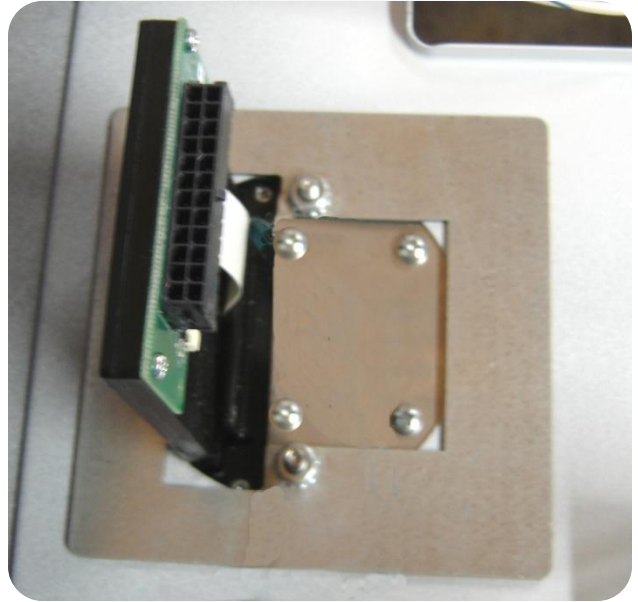
Physically install the WaveReader using one of the methods described on pages 7 or 8 of this manual. Make sure the machine is disconnected from all power sources and all metal fragments from the drilling and cutting are removed before reassembly.



1

After physical installation, the reader should look like this (with the **Trim-Plate Kit**).

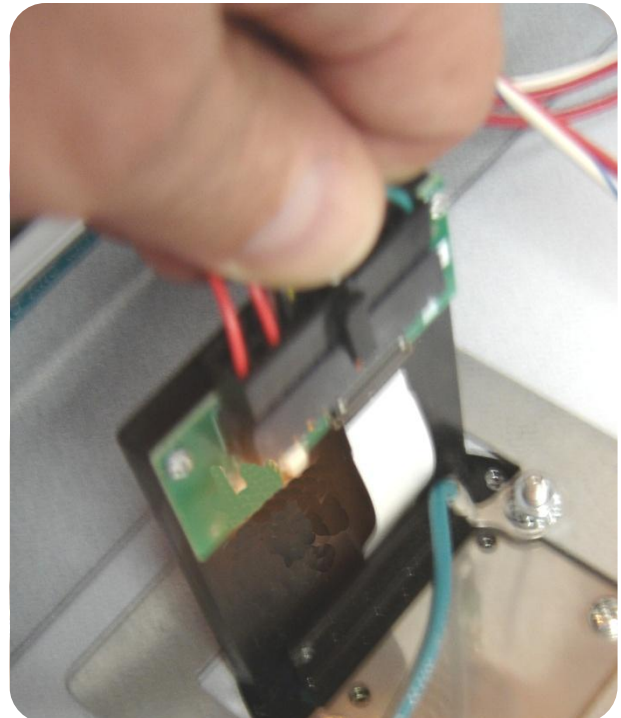
This a view from the side



2

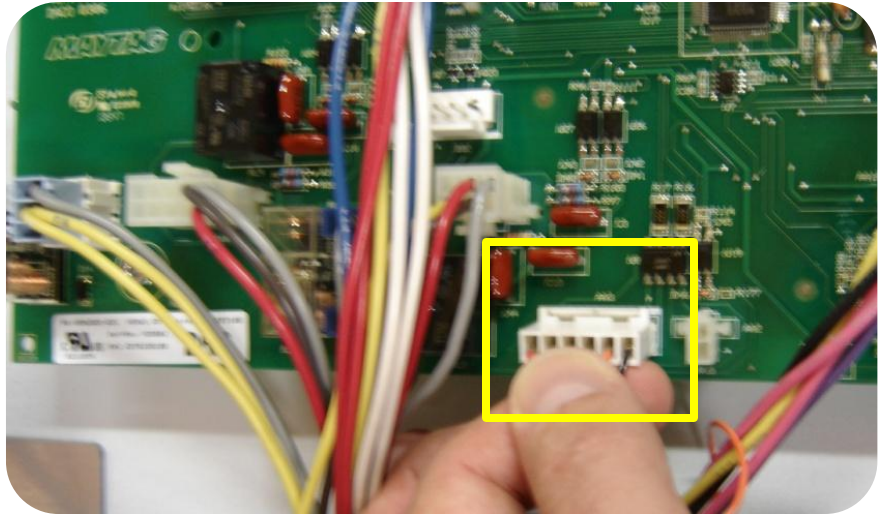
Connect **J1** of the interface harness back of the WaveReader.

J1
WaveReader



3

On the main panel, connect **J3** of the WaveReader harness to the **AA3** connector on the Maytag control board, as shown in the yellow square.

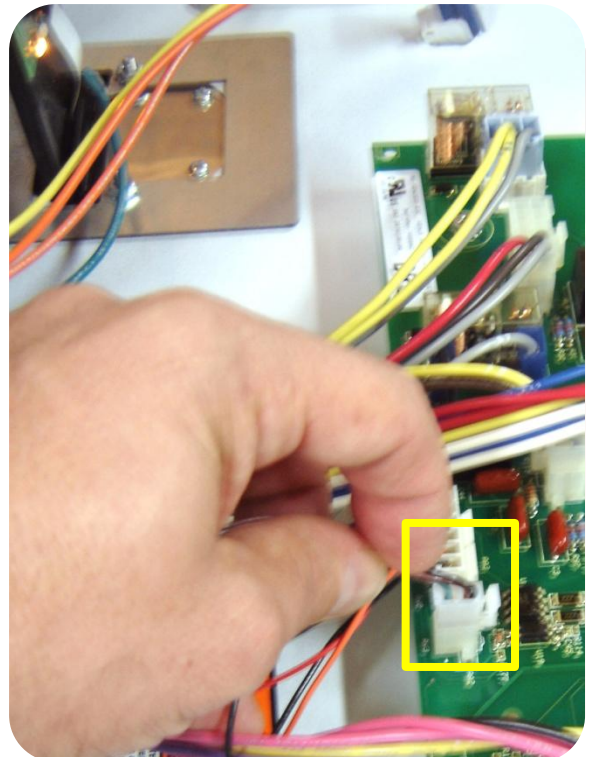


4

For STACK Machines

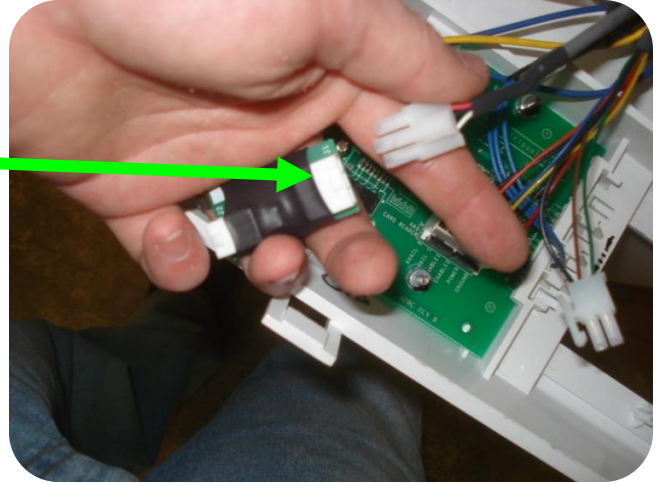
Connect **J2** of the WaveReader harness to the **AA2** connector on the Maytag control board, as shown in the yellow square.

On most machines, the AA2 connector is near the AA3 connector on the control board



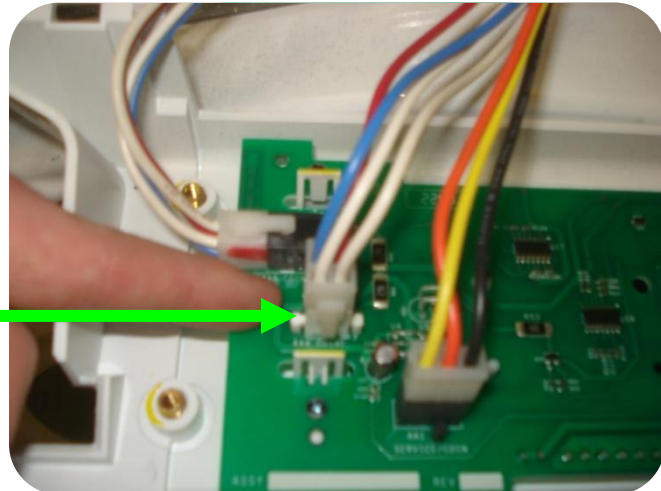
5

Locate the **Coin Adapter Board**.
Connect **J4** of the WaveReader harness to the mating connector on the **Coin Adapter Board**.



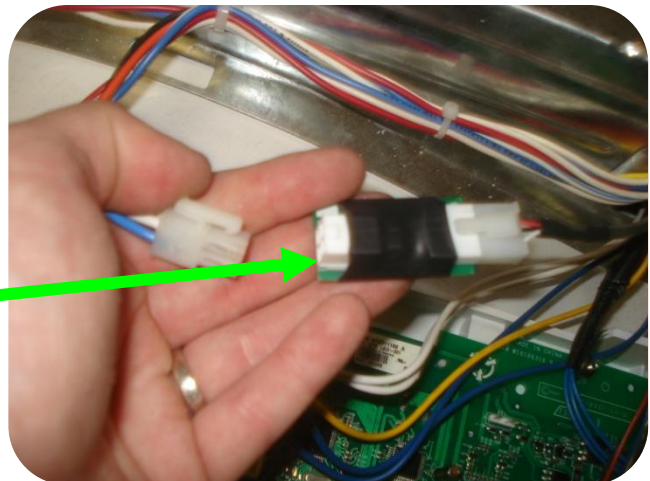
6

On the Maytag control board, locate the **COIN 1** connector and remove the cable that is plugged into it.



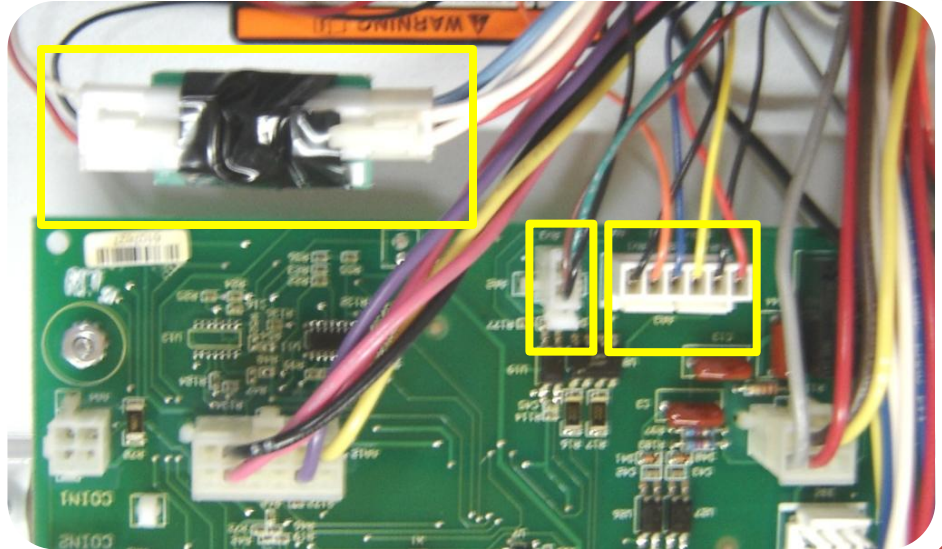
7

Insert the **COIN 1** connector into the mating connector on the **Coin Adapter Board**, as shown.



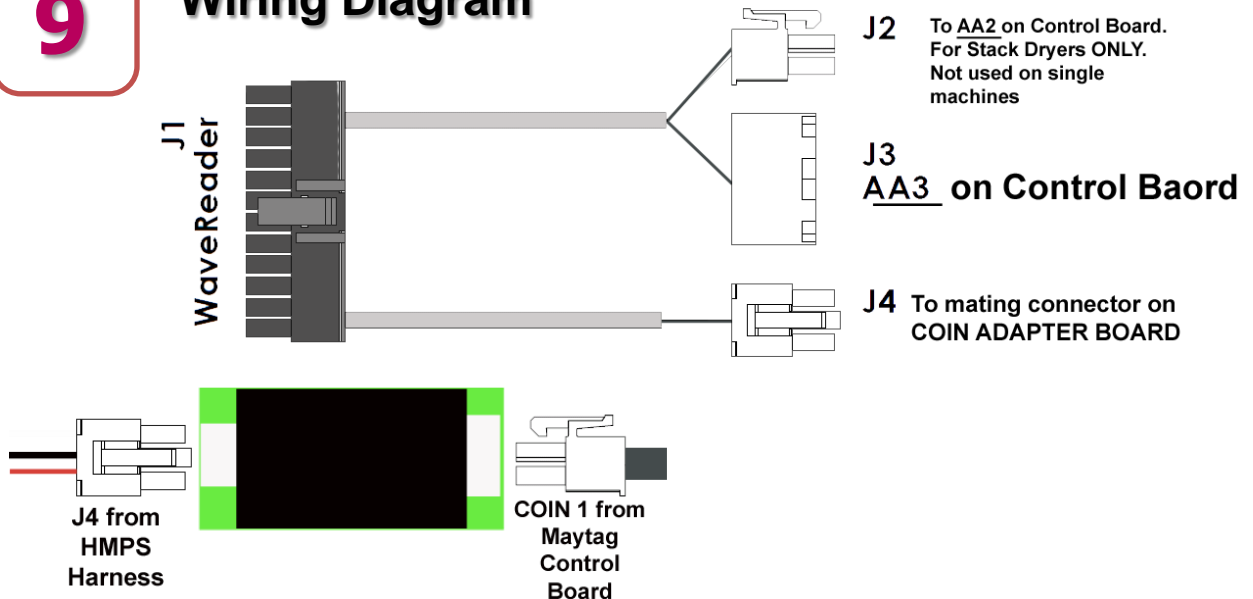
8

The completed wiring assembly should look like this...



9

Wiring Diagram



10

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



11

Finished assembly.



12

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



13

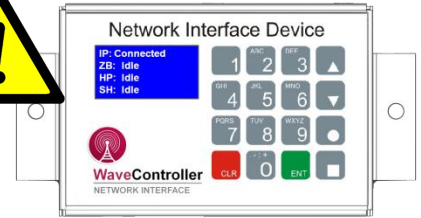
This machine can be programmed by removing the **3 pin connector** located to the left side of the board next to **COIN 1**. Removing this connector places the machine into service mode. Replacing the connector returns the machine to working state.

1. For **WaveReader** to function properly on this machine, it must be set to **Debit Only mode**.
2. Please make sure the **monetary sale value** on the machine **matches the value specified for card transactions**.



14

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.*

15

1. Drop 25c into the coin drop.



2. Verify that 25c is deposited into the machine



.25

3. Swipe a card, wait for the transaction to be approved and then press START on the WaveReader

4. Verify that the balance of the funds have been deposited into the machine.

SELECT CYCLE

1.00

16

Reattach all machine panels.

