## How to Determine 2K Vs 2.5K Vs 3K Machines

2 K inside of control panel has a gold colored
controller that says FA-2J or FA-1J.


3K Machine has 2 control panels.
1 mounted on the machine and 1 mounted on the wall away from machine.

The controller on the wall is called the off board panel and has a digital display and has an ethernet cable coming out of left side of controller from the machine control panel.

2.5 K Control panel has only one control panel mounted on the machine and it has the digital display in lower part of the panel and no Ethernet cable.


3K On board panel.
The controller on the machine does not have a digital display and should have an ethernet cable coming out of left side of controller running to the other panel on the wall.


## Carwash lights and what they mean.

Most of the washes have a Green/Yellow/Red Led style light on them. This light does different flashing or solid displays and helps with identifying an issue with the wash.

## No light at all:

1. Light burnt out or bad. Check light/relay on the controller to see if it is on.
a. The LED light shorting out can cause unknown random or intermittent results with the controller. When in doubt disconnect cord at the light to verify.
2. Check if MCR relay light is on.
a. Check if Emergency stop button is stuck. Could be either on or off board panel. look at indicator light on the controller.
b. Communication issue. Check if Bus light is flashing and reseat comm cables and/or check the splice at the J-Box
c. If they have a code box, you need to enter a code to get a green light.
i. If no code box. Check the Program number on the controller.

## Solid Green:

1. The carwash is ready to go. Machine will not run unless the light is green.

## Solid Yellow:

1. Wash has completed its cycle and time to pull the vehicle off the treadle pad
2. The proximity sensor might be stuck on and the wash thinks the cycle is done. Check the lights on the controller when the machine sensors are not over a floor magnet.
3. Treadle pad may be stuck and is acting like it is waiting for the vehicle to pull off the pad.
4. Touch Free - Photo eyes may be blocked or misaligned.

## Solid Red:

1. A Vehicle is on the treadle pad and machine should be running.
2. If no vehicle on the Treadle pad then the treadle pad is stuck.

## Flashing Green:

1. FlexWrap - Low hyd oil

## Flashing Yellow:

1. This is an error of low main air pressure. Check air compressor and main air regulator should be at 80-85 PSI.
2. When machine first starts it requires a big quantity of air. If you watch the main air gauge and it drops below 60 PSI and jumps back to 80-85PSI. There is most likely something restricting the air flow in the main air line. Drain Air Lines, Air Compressor, Clean main air auto drain.

## Flashing Red: 2K-2.5K-3K

1. This is an error of being low on hydraulic fluid.
a. Check fluid level and check for leaks.
b. Check the fitting on top of low oil switch. If plugged it will cause vapor lock and cause low oil switch to read low.
c. For a 2 K machine with FA-1J or FA-2J controller, it may indicate a tripped Overload.
d. For a 2 K machine with FA-1J or FA-2J controller, it may indicate Auxiliary relay is bad.

## 2K Carwash Lights

What color is light?


Rollover Carwash Control Box Diagram


## 2K Control Box



## 2K Layout Labels




CODE PROGRAM
$00=$ STANDARD WASH
$01=$ STANDARD 15 SEC. PLATE DELAY
$05=$ RINSE ON WAY BACK \& ATTER WASH
$06=$ BYPASS PAD SWITCH
$10=$ STANDARD SHORT TRACK
11 = STANDARD SHORT TRACK 15 SEC PLATE DELAY
$12=15$ SEC PLATE DELAY \& RINSE ON WAY BACK
15 = RINSE ON WAY BACK \& SHORT TRACK
$16=$ BYPASS PAD SWITCH \& SHORT TRACK
$20=$ COIN BOX OPERATE INTERNAL
$21=$ SHORT TRACK COIN BOX
$23=$ CODE BOX
$24=$ CODE BOX SHORT TRACK
$55=$ TEST-OUTPUTS (ALL)
PROGRAM SELECTIONS
AND TIMER ADJUSTMENTS


We are no longer going to be shipping the air muffler (stone) that was typically installed on the top of the low oil switch. Instead, we are going to be shipping the machine with a 45 deg $1 / 4$ " barbed fitting in top of the low air switch. We ask that you completely cut off the hose that is installed for shipping purposes. Leave the $45 \mathrm{deg}^{1 / 4}$ " hose barb in the top of the switch ONLY.
We feel that if the breather stone were to get wet for any reason (oil too full/ water spray), that when it dries it can lose its ability to ventilate, causing an air lock to happen and a false low oil signal can occur. With a $1 / 4$ "barb opening, there will always be an ability to ventilate.
*YOU MUST REMOVE THE HOSE COMPLETELY, IF YOU DO NOT AND THE HOSE FALLS, A SIPHON CAN BE CREATED AND THE 30 GALLONS OF OIL CAN COMPLETELY DRAIN OUT


## Mitter Curtain Layout

## 2K Single Retract/3K Single \& Double Retract

| Driver Front |  |  | Pass Front |
| :--- | :--- | :--- | :--- |
| 727272727878 | 78787878 | 72727272 |  |
| 78787878 | 72727272 | 72727272 | 78787878 |
| Driver Rear |  |  | Pass Rear |

## Rollover Drive in/back out

| Driver Front |  |  | Pass Front |
| :---: | :---: | :---: | :---: |
| 66666666 | 727272 | 727272 | 66666666 |
| 72727272 | 66666666 | 66666666 | 72727272 |
| Driver Rear |  |  | Pass Rear |

## 2K Double Retract

| Driver Front |  |  | Pass Front |
| :---: | :---: | :---: | :---: |
| 84848484 | 90909090 | 90909090 | 84848484 |
| 1-ply | 1-ply 2-ply | 2-ply 1-ply | 1-ply |
| 90909090 | 84848484 | 84848484 | 90909090 |
| Driver Rear |  |  | Pass Rear |

## Knuckler Drive Thru

| Brush Side |  |  | Pass Front |
| :---: | :---: | :---: | :---: |
| 66666666 | 6666666666 | 66666666 |  |
| 72727272 | 72727272 | 72727272 | 72727272 |
| Entrance Side |  |  | Entrance Side |

## Pad Sequence Front



F = Foam Pads
C = Cloth Pads

## $8 \times 18 \times 20$

Front
Bottom Row


F = Foam Pads
C = Cloth Pads
S = Spacers

## Car Wash Model C Foam Addition

 3K / Current layout on Production Machine10 piece PF Cloth (Double) is now what we will ship and quote unless told otherewise. Explain to dealership when quoting that we do 10 now unless they have a lot of passenger side antennae.

## Top to Bottom <br> Front Driver <br> Front Passenger



## For Quantities Less than 44 Space Evenly Around Hub

## Car Wash Model C

3K / Current layout on Production Machine
This is the size cloth we will now use on all production and replacement cloth unless otherwise stated.

Top to Bottom
Rear Driver
Rear Passenger


For Quantities Less than 44 Space Evenly Around Hub

