



Technical Install Guide

The following information is provided by Rice Lake Weighing Systems (RLWS) to assist Authorized Service Offices installing Rice Lake Weighing Systems wrapping and weighing equipment within Costco Wholesale Warehouses.

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1. Tuesday (8am – 5pm).

- 1.1 Enter site through the shipping/receiving area as the front-end customer entrance will be closed:
- Introduce yourself to loading dock personnel and coordinate a work area to unbox equipment.
 - Introduce yourself to department heads and store management, if possible, otherwise ask meat manager to advise store management of your arrival.

- 1.2 Advise the all departments of the schedule and recommend completion of as much product as possible prior to 10am-11am.

Note: Depending on the type and age of the existing equipment, once the auto wrapper has been powered down the hand wrap may lose all pricing data limiting production output.

- 1.3 Ask department heads to begin considering when employees will be available for Tuesday afternoon and Wednesday training (e.g. start/end of shifts, breaks/lunches).
- If possible, focus on groups of **3-4** on Tuesday afternoon and provide as needed individualized training on Wednesday and Thursday.

- 1.4 Ensure correct power is in place for all equipment: **SINGLE PHASE, 20A 200-220VAC** for **WM-Ai-P**, **120VAC** for **UNI-9's** and **IP-Ai-P**; test voltage with meter.

- If power is not correct, immediately inform store manager and acquire an ETA of the Costco electrician.

Note: Unless you are an approved Costco vendor for performing electrical work, do not attempt to modify or change the power drops.

An approved electrician should be available during the install, this needs to be scheduled by the store/dept management prior to the install date, as referenced in the pre-install letter management receives.

- 1.5 Ensure Ethernet is in place and working correcting:

- Confirm that existing equipment is online, if possible.
- If issues occur (dead or missing wall jacks) contact store/department management **ASAP** to schedule a cabling contractor.
- A total of **6** active drops will be needed: **1** each for the **WM-Ai**, the **UNI-9DB** in deli production, the **UNI-9DB** in deli rotisserie, and **2** for the meat hand wrap: **1** for the **UNI-9 DBXL** hand wrap and **1** for the seafood road show unit(s).
- In special cases a **7th** drop will be needed for the **2nd** Bakery printer.

Note: Unless you are a Costco approved vendor for performing cabling work, do not attempt to modify or change the Ethernet boxes. Only swap cables between the equipment and the wall. An approved cabling vendor will be scheduled, if needed, by the store/dept management.

- 1.6 Ensure that all equipment, labels and film are onsite and not damaged; see the **APPENDIX: [Equipment list](#)**.
 - a. After a successful initial evaluation has been performed, the install can proceed.
 - b. Contact **John Robinson** at **1-206-409-2618** and update him on this.
 - c. If any equipment, labels or film is missing and unresolvable the install may need to be delayed, again contact John Robinson and update him on these issues.

- 1.7 Find the current equipment's **IP** (match the first three octets to the store/existing equipment and the forth octet to this document):
 - a. Hobart Quantum: **ESCAPE** until **START A RUN** is displayed → **SUPER MENU** → **SCALE SETUP MENU** → **COMMUNICATION MENU**.
 - b. Mettler Toledo 647: **END RUN** until an **IP** appears in the top center of the screen; this is the **GATEWAY** not the scale **IP**.

- 1.8 Unbox all equipment:
 - a. Begin with the **UNI-9's** and **IP-Ai-P**. Place **UNI-9's** and **IP-Ai-P** next to existing equipment and power on. Connect Ethernet if possible.
 - b. Unbox the **WM-Ai-P** and **accessories**; pack-off table, hand wrap stand and WM-Ai-P leg extensions; see the **APPENDIX: [Removal of WM-Ai from Pallet](#)** and **[Hand Wrap Station Assembly](#)**.
 - c. All equipment should be unboxed and placed into position by **10am**.
 - d. By **11am** the electrician should have power in place allowing the **WM-Ai-P** to be powered on.
 - e. Confirm proper electrical operation prior to the electrician leaving the site and do not remove the original equipment, including wrapper, until all new equipment is in good working order.
 - f. Complete the **Wrapper Specific Setup** outlined in section **2**.

- 1.9 Adjust **MACHINE SET** for all equipment; **MENU/RETURN** → **SETUP** → **495344** → **LOGIN** → **MACHINE NUMBER** → **IP ADDR**s tab:
 - a. **WM-Ai-P: ALONE**.
 - b. **IP-AI-P (baker): ALONE**.
 - c. **UNI-9DBLX (meat hand wrap): MASTER**.
 - d. **UNI-9 (deli production/roisserie): ALONE**.
 - e. **UNI-9 (seafood): SATELLITE**.

Note: Once the seafood scale(s) have been set to **SATELLITE** the **MASTER IP** field will become enabled, enter the **UNI-9DBLX (meat hand wrap) IP** address: **10.xxx.xxx.195**

- 1.10 Adjust the communication settings for all equipment; **MENU/RETURN → SETUP → 495344 → LOGIN → MACHINE NUMBER** (cycle between the **IP ADDR.** and **PC COMM** tabs):

Note: IP addresses will be unique to each location, but the first and last octets will remain the same:

- a. Meat Wrapper: 10.xxx.xxx.193
 - b. Deli production: 10.xxx.xxx.206
 - c. Deli rotisserie: 10.xxx.xxx.207
 - d. Meat hand-wrap: 10.xxx.xxx.195
 - e. Seafood roadshow: no matter the quantity, all roadshow scales at set to 10.xxx.xxx.196
 - f. Bakery: 10.xxx.xxx.202
 - g. Bakery: 2nd (optional) 10.xxx.xxx.203
 - h. Subnet mask for all: 255.255.255.224
 - i. Gateway and PC IP address for all: 10.xxx.xxx.222
 - j. Port for all: 6000
- 1.11 Program **DATA DISTRIBUTION** on the **UNI-9** hand wrap; **MENU → 495344 → LOGIN → SETUP → DOWN ARROW → DATA DISTRIBUTION**:
- a. Enter the seafood **IP** address using the mechanical keypad and the on screen “dot”, then touch the desired field to overwrite. Only one **IP** address should populate this page.
- 1.12 Manually reboot and ping out all equipment; **MENU/RETURN → PROGRAM → 495344 → LOGIN → MACHINE NO → IP ADDR → PING TO PC**:
- a. A screen should confirm that communication is **OK**.
 - b. If **NG** appears check settings and ensure that the buildings Ethernet jacks are operational.
- 1.13 Once successful communication has been established to all equipment, immediately call John Robinson for a simultaneous download to all departments: **206-409-2618**.
- Note:** Do not delay, downloads from Costco's IT dept can take **hours**.
- 1.14 Set date, time and time zone for all equipment; **MENU/RETURN → 495344 → LOGIN → ADJUST → DATE TIME**:
- a. Touch **TIME ZONE** and select correct zone.
 - b. Enter the eight-digit date (enter the two-digit date if the year and month are correct) then touch **DATE** and **SET**
 - c. Enter time in a **24-hour/six-digit** format then touch **TIME** and **SET**.

- 1.15 Change the six-digit manager's password for **KEY LOCK** or **MANAGER MODE** on all equipment; **MENU/RETURN → SETUP → 495344 → LOGIN → SETUP → KEYLOCK:**
- Using the mechanical keypad, enter the **store number** preceded by **zero's**; such as **001234** or **000012**. Password must be six digits.
 - Touch ********* located to the right of **PASSWORD**.
 - Touch **MENU/RETURN** to return to the **SETUP** screen, touch **PASSWORD** and repeat the above procedure.

Note: Do not change any of the **YES/NO** values.

- 1.16 Change the store name/number on all equipment; **MENU/RETURN → STORE → PROGRAM → STORE NO → DETAIL:**

- Use position **1** for all equipment.
- Leave the **ADDRESS** field blank.
- Under the **STORE NAME** field, enter the following format (single line):
COSTCO WHOLESALE #_ _ _ _ CITY, STATE ZIP.

- 1.17 Calibrate the all scales and seal according to your local regulations:

- Calibrate the **UNI-9** hand wrap to single range with **60lbs**.
- Verify machine type is set to **BENCH (B) BENCH WITHOUT DISP. (BP)** due to the remote base.
- Adjust the **STABLE COUNT** of the hand wrap while in the calibration menu: **495344+PLU** will display a new option in the lower left corner, change this to **4**.
- Calibrate all other equipment to single range with **30lbs**

- 1.18 Load the labels on all equipment, then adjust gap sensor; **MENU/RETURN → SETUP → 495344 → LOGIN → PRINTER → LABEL FEED:**

- Touch **FEED 3** times, removing each label.
- Touch **DETAIL** to view the flat green line, which should be near **60**, with the spike near **160**.
- If used, the red gap detach line should be between **20** and **30** points above the flat green line.
- For label loading, reference the "**Costco Team Guide**".
- For gap sensor adjustment, see the **APPENDIX [Gap Sensor Adjustment](#)**.

- 1.19 Adjust the peel sensor sensitivity for all equipment to **50**; **MENU/RETURN → SETUP → 495344 → LOGIN → PRINTER → PEEL SENSOR.**

- 1.20 Print test labels from multiple formats and check for proper alignment on all equipment, e.g. the sell by date should be centered in the red circle.

- Meat dept formats: **#60**, **#61** and **#66**.
- Deli dept formats: **#63** and **#64**.
- Bakery dept formats: **#62** and **#72**.
- Afterwards bring the labels to the front-end manager for test scans.

- 1.21 Prior to usage, the deli and bakery managers **MUST** review, and change, **ALL** preset keys to avoid issuing labels with incorrect data.
 - a. Perform manager training on preset editing at this time.
 - b. Costco utilizes **PLUs** and **ITEM CODES**; multiple **PLUs** can be associated to a single **ITEM CODE** due to regional differences, i.e. there are two PLUs for "Blueberry Muffins" but the item number is the same.

Note: Neither RLWS nor Costco's IT team manage the presets, therefore the responsibility rests **100%** on the dept manager to ensure that the presets are correct.

- 1.22 Begin training to ensure all managers can competently operate equipment; dept managers should be familiar with the equipment prior to training employees, if possible, as the manager will generally want to assist in the training of their own employees.
- 1.23 Allow employees to begin supervised use of machine and begin their training; assure all trainees sign [employee training sign off sheet](#).
- 1.24 Confirm successful downloads to all equipment; do not remove original scales until a full download has been confirmed.
- 1.25 Confirm a start time for Wednesday, this is determined by the dept manager for the meat room., e.g. if morning wrapping starts at **7am**; arrive no later than **6:30am**.

2. Wrapper Specific Steps

- 2.1 Check the operation of all components in **UNIT ACTION**; **MENU/RETURN → 495344 → LOGIN → ADJUST → UNIT ACTION → WRAP** tab:
- From the first page, select operation **No. 1 SENSOR CHECK** then touch **RUN**. Repeat for all items on page one.
 - Proceed to the **LABEL APP.** tab under **UNIT ACTION** and run all items except **#10-13**.
 - Remaining under the **LABEL APP.** tab, perform a 15 minute "run in test" by running **No. 10 WRAPPER(U)+ APPL(1)**.
 - Repeat test using **NO. 12 WRAPPER(D)+ APPL(1)**.
- Note:** Prepare the run-out table, hand wrap station, film and label during run in test
- 2.2 Turn on sealing rods; average of **350F** for Berry film but adjust as needed:
- From operation screen enter the **six-digit** manager password (store number proceeded by zeros) then touch **KEYLOCK** or **MANAGER MODE → TEMP**.
- 2.3 Load the labels to perform the **TWIN LABEL** test to ensure printed labels are not sticking to backing paper; **MENU/RETURN → ADJUST → 495344 → LOGIN → DOWN ARROW → PRINTER → LABEL FEED** tab:
- Select **PRINTER: 1**.
 - Change **TWIN LABEL PRINT** to **YES** (this is a temporary change that will not be saved outside of this screen) then press **PRINT** and remove the label.
 - While watching from directly above the main printer, press **PRINT** followed by PLU via the mechanical keypad.
 - Confirm the main label barely comes free of the backing paper and adjust if necessary, via **PRE-STOP POS**.
 - Select **PRINT: POP** and repeat steps **B** through **D**.
- 2.4 Test the position of the main applicator; **ADJUST → LABEL APPLICATOR → POS** tab and select **PRINTER** to **1** and **DEGREE SEL** to **0 DEG**:
- Adjust the applicator using **PASTE POS**.
 - Adjust to **2mm** from the peel bar.
 - Center the applicator between the blue standby rollers.
 - Adjust the height until just touching the blue standby rollers then lower by **.5mm**.
 - Change **DEGREE SEL** to **-90 DEG** and repeat steps **A** through **D**.
- 2.5 Test the position of the POP applicator; **ADJUST → LABEL APPLICATOR → POS** tab and select **PRINTER** to **1** and **DEGREE SEL** to **180 DEG**:
- Adjust the applicator using **PASTE POS**.
 - Adjust to **2mm** from the print head.
 - Adjust the height until just touching the blue standby rollers then lower by **1mm**.
 - Change **DEGREE SEL** to **270 DEG** and repeat steps **A** through **C**.

- 2.6 Remaining in the **LABEL APPLICATOR** menu, select the **ACTION** tab:
- Select **PRINTER: 1** and **0 DEGREE**.
 - Enter a test value of **25** into **SET COUNT**.
 - Position a tray over the application area and touch **RUN**.
 - 25** labels should apply without issue or variation exceeding **2mm**.
 - Change **DEGREE SEL** to **-90 DEG** and repeat steps **B** through **D**.
 - Select **PRINTER POP** and change **DEGREE SEL** to **180 DEG**; repeat steps **B** through **D**.
 - Change **DEGREE SEL** to **270 DEG**; repeat steps **B** through **D**.
- 2.7 Calibrate the camera; **MENU → 495344 → LOGIN → ADJUST → CAMERA → VOLUME**:
- Perform **AUTO ADJ (BRIGHT)**. Follow screen instructions and touch **EXEC**.
 - Repeat for **AUTO ADJ (DISTORT)**. Follow screen instructions and touch **EXEC**.
 - Repeat for **AUTO ADJ (VOLUME)**. Follow screen instructions and touch **EXEC**.
- 2.8 Load film and confirm **450mm/18"** is selected:
- From operation screen touch either **LOAD UPPER FILM** or **LOAD LOWER FILM** and follow on screen prompts.
- 2.9 Check the film roll stop position, length and centering for both rolls:
- Stop position; **MENU/RETURN → ADJUST → 495344 → LOGIN → WRAPPING MACHINE → ROLL → SET FILM**.
 - After setting film, **FEED** film twice to allow machine to measure the roll.
 - FEED** again and adjust brake until the film peels off the roll at the 11am position; see the **APPENDIX: [Film roll stop position](#)**.
 - Centering and length of film; **MENU/RETURN, ADJUST, 495344, LOGIN, WRAPPING MACHINE, FILM**:
 - Feed both films and adjust as need to align the right side with the stainless-steel top plate and the left side with the arrow/triangle; see the **APPENDIX: [Film centering](#)**.
- 2.10 Adjust the tray detection and check wrap quality for the **8P** tray; **MENU → 495344 → LOGIN → PROGRAM → TRAY**:
- Select the corresponding tray and touch **DETAIL**.
 - Select the **MANUAL** tab and touch **DETECT LENGTH** in the lower right corner.
 - LENGTH** and **WIDTH** will turn yellow.
 - Place the corresponding tray on the weigh platter; be sure the tray is centered between left and right and pulled back against the blue fingers.
 - Touch **LENGTH** under **DETECT** and remove tray.
 - Place product into the tray, then place the tray onto the weigh plater and press **PLU** to complete the wrap cycle.
 - Inspect for wrap quality and repeat step **F 10 - 20** times to evaluate for consistent wrap quality.
 - No adjustments to the tray files should be needed.
 - Repeat steps **A** through **H** for the **9L** and **25P** tray.

- 2.11 Remaining in the **TRAY** menu, perform a **PASTE CHECK** for the **8P** tray by touching **LABEL REG**.
- a. Select **PRINTER 1 and POS No. 7**.
 - b. Select the **PASTE COORD** tab.
 - c. Place the corresponding tray size on the blue weigh platter and press **PLU** on the mechanical keypad.
 - d. The tray will wrap and a label will be applied.
 - e. Using the on-screen arrows, adjust until the label is about one inch from both edges of the package.
 - f. Repeat step **C** through **E** until correct label alignment has been achieved.
 - g. Return to the **PASTE POS** tab and select **POS No 2**.
 - h. Repeat steps **B** through **F**.
 - i. Return to the **PASTE POS** tab and set **HORI POS** to **7** and **VERT POS** to **2**.
 - j. Return to the **PASTE POS** tab and select **PRINT POP** and **POS No 6**.
 - k. Repeat steps **B** through **F**.
 - l. Return to the **PASTE POS** tab and select **POS No 3**.
 - m. Repeat steps **B** through **F**.
 - n. Return to the **PASTE POS** tab and set **HORI POS** to **6** and **VERT POS** to **3**.
 - o. Repeat steps **A** through **N** for the **9L** and **25P** trays.
- 2.12 Return to operation and run test packages under PLU files, checking for correct label placements on all tray files, vertical and horizontal, with **one-inch** clearance between the edge of the tray and label.
- 2.13 Perform a **CUT TEST**; note the test number, as it will need to be referenced in step [3.1](#).
- 2.14 Apply grease to all **twelve** bearings on each of the **three** infeed pushers and left/right sprocket gears for the white chain; see the **APPENDIX: [Greasing infeed bearings](#)**.

3. Post install; Wednesday (7am – 4pm) and Thursday (8am – 12pm):

- 3.1 Check the WM-Ai-P for the **CUT TEST** performed the day prior; the test should no longer be available as Costco should have pulled and cleared this data.
- 3.2 Continue training to ensure all available employees can competently operate equipment; preferably in groups of **3-4** as all trainees must load labels and film if applicable.
- 3.3 Backup all equipment:
 - a. Open the access panel to expose the USB ports:
UNI-9: raise the keyboard and lower cover.
IP-Ai-P: remove the upper left side cover.
WM-Ai-P: remove the small right-side panel cover behind the touchscreen display.
 - b. Insert an **8gig** or less USB drive into any USB position; use the same USB for all backups.
 - c. Via operations screen: **MENU/RETURN → SETUP → 495344 → LOGIN → DOWN ARROW → FILE SAVE/LOAD → SCALE>USB → OUTPUT SELECT.**
 - d. Select position (maximum of 10), touch **EDIT** and rename using the following format: "Costco STORE NUMBER CITY, MM.DD.YY, EQUIPMENT".
Equipment should be abbreviated as:
WM = Wrapping machine
HW = Hand wrap
SF1/SF2/SF3 = Seafood; some stores will receive a 2nd scale (SF2)
DELI = Deli Production
ROT = Deli Rotisserie
BAKE = Bakery Printer
BAKE2 = Kosher Bakery Printer
 - e. Touch **MENU/RETURN** to save and return to previous screen. Then touch: **ALL SEL → EXEC → EXEC.**

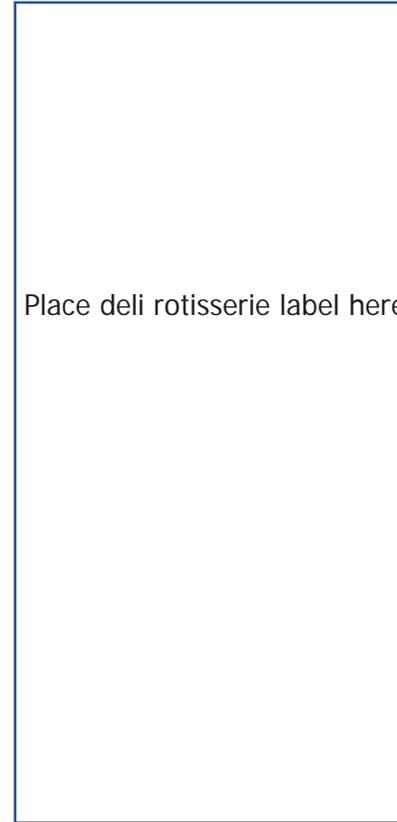
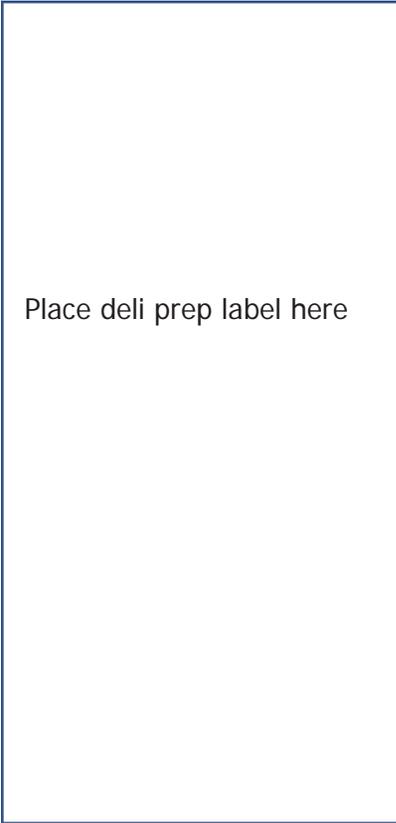
Note: The backups will appear as **DATA 1, DATA 2**, ect. Do not change these names.

- 3.4 Turn **DISPLAY CAPTURE: MENU/RETURN → ADJUST → 495344 → LOGIN → DOWN ARROW → DISPLAY CAPTURE → YES.**
 - a. A new icon camera will appear in the lower left corner of all screens, touch the new icon and a twin beep will confirm a screen capture has occurred.
 - b. Capture settings under **WRAPPING MACHINE → TRAY FILES → LABEL APPLICATOR (POP and Printer 1) → PRINTER (POP and Printer 1) → FIRMWARE DETAILS** and **MACHINE No** on all equipment.
 - c. Return to **DISPLAY CAPTURE** and to turn **OFF.**
 - d. Transfer the USB stick to a computer and create a folder to match the "Costco STORE NUMBER CITY, MM.DD.YY, EQUIPMENT" format outline above, transfer the auto created folder on the USB titled **CAPTURE** and backups into the new folder.

Note: Images are held in an auto populating "**CAPTURE**" folder; this folder can be overwritten if the USB is removed then reinserted to capture addition images.

Keep all backups and screen captures in a secured location, zip the files and folders and email to your Rice Lake representative.

DELI DEPARTMENT:



BAKERY DEPARTMENT SIGN OFF:

Please sign and print your name if you believe you have been fully trained, can operate the IP-Ai-P printer effectively and can answer **YES** to the following questions;

Enter and search for PLUs?	Know the difference between the item number and PLU number in order to prevent using the wrong PLU?
Change the sell by date and use "rewrap"?	
Load labels?	Manager: password, changing the preset keys and why they need changed?
Proper cleaning of the printer (print head and platen roller (alcohol only), screen and exterior (damp terry cloth), etc)?	
Label batch mode?	Power off the equipment?

SN: _____ IP: _____

Sign name:	Print name:	Title or position:	Date and time:

Place label here

MEAT DEPARTMENT SIGN OFF:

Please sign and print your name if you believe you have been fully trained and can operate the UNI-9 scales and WM-Ai auto wrapper effectively and can answer **YES** to the following questions;

Enter and search for PLUs?	Proper cleaning of the wrapper and scale: print head and platen roller (alcohol only), nightly cleaning of the auto wrapper (clean with damp terry cloth then wipe down exterior with mineral oil, etc)?
Change the pack date and use "rewrap"?	
Select the correct tray size and label orientation (and understand horizontal vs vertical placement in relation to the package) on the auto wrapper?	Download to the roadshow from the hand wrap station?
	Change the tare on the UNI-9s?
Perform a "RUN TOTAL"?	Perform a "CUT TEST"?
Load film?	Power off the equipment?
Load wrapper labels, USDA labels and scale labels?	Manager: know the password, how to change the preset keys and why they need changed?
Resolve common errors with basic troubleshooting?	

WM-Ai SN: _____ IP: _____ UNI-9DBXL SN: _____ IP: _____

Seafood SN(s): _____ IP: _____ Seafood SN(s): _____ IP: _____

Sign name:	Print name:	Title or position:	Date and time:

MEAT DEPARTMENT SIGN OFF:

Place WM-Ai label

Place UNI-9DBXL label

Place seafood 1 label

Place seafood 2 label

APPENDIX

1. Contacts

Company	Title	Email	Phone
Northwest Scale Systems	Key account manager	john@nwscales.com	1-206-409-2618
Rice Lake Weighing Systems	National Service		1-888-225-7597

2. Tool list (required)

7, 8, 10 and 17mm sockets with <u>ratchet</u>	Cordless driver and socket adaptor; do not use an impact driver on the machine.
Extension for sockets	
30mm wrench, or an adjustable "Crescent" wrench	Hammer for wooden crate
#2 Philips	Pry bar for wooden crate
Razor blade or another cutting implement	Service Keys x3 (PN: 95540)
60lbs of certified test weights plus <u>seals</u>	USB Thumb driver, 8G or smaller, FAT32 format

3. Equipment list, with part numbers

Part #	Description	Quantity
	<u>Auto wrapper:</u>	
171445	WM-Ai AS2-JRP	1
73078	5' pack-off table (73062-Table. 73075 infeed.)	1
73065	Dispenser for small pop labels; pack-off table.	1
157382	4" WM-Ai lift kit.	1
72943	Wash down cover.	1
167334	Watertight plug 20a male	1
167335	Watertight plug 20a female	1
182239	Kirkland label rack	1
	<u>Meat hand wrap:</u>	
178033	UNI09DBXL	1
160263	60x.01lb scale base	1
47670	Wrapping station	1
53693	Upper shelf for UNI-9	1
47672	Left "wing"	1
46927	Right "wing"	1
104948	Scale base alignment plate	1
	<u>Bakery:</u>	
176697	IP-Ai-P	1 - 2 *
	* Some locations will operate a 2nd Bakery printer, used for Kosher production only.	
	<u>Deli, rotisserie, Seafood Roadshow:</u>	
168873	UNI-9DB.	3+ *
	* Some locations will order more than one Seafood Road Show scales.	
	<u>Supplied by Costco:</u>	
993752	UNI-9 Deli labels	Varies
995251	IP-Ai Bakery labels	Varies
1268719	IP-Ai Kosher bakery labels	Varies
36991	UNI-9 Meat labels	Varies
37698	WM-Ai-P Labels	Varies
??	OMINFILM ES 18": Berry Plastics	??

4. Removal of WM-Ai from the Pallet

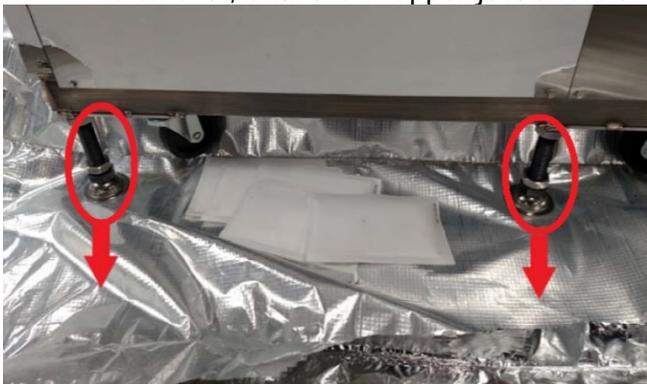
4.1 Remove the **sixteen 10mm** bolts from the pallet bracing:



4.2 Remove the **four 17mm bolts** fastening the 4x4 braces spanning the width of the wrapper (left side of wrapper pictured, remove both sides):



4.3 Using a **30mm** wrench (or **1.25"** adjustable) lower all **four** leveling feet, in even increments, until the wrapper just clears the 4x4 bracing then remove the bracing:



4.4 Slide ramps out and align with casters on the right-side wrapper:



4.5 Raise all **four** leveling feet at even increments until the casters touch the pallet; continue raising the leveling feet counter clockwise until they cannot be raised any higher:



4.6 Roll the machine to the right, down the ramps and off the pallet as shown below; it's recommended to have **two** or **more** people guide the machine off the pallet.

Note: Do not attempt to remove the wrapper by any other method.



5. WM-Ai Lift installation

Part number **157382** includes **four** stainless steel lifting blocks, **four** caster extensions, and **sixteen** bolts with matching flat and lock washers:

Note: A forklift spread to 20" will be needed to lift the wrapper. **USE CAUTION WHEN WORKING NEAR A LIFTED WRAPPER AND TAKE PROPER SAFETY PRECAUTIONS.**

5.1 Prepare the wrapper by lifting off the ground with a forklift on the left side **ONLY**:

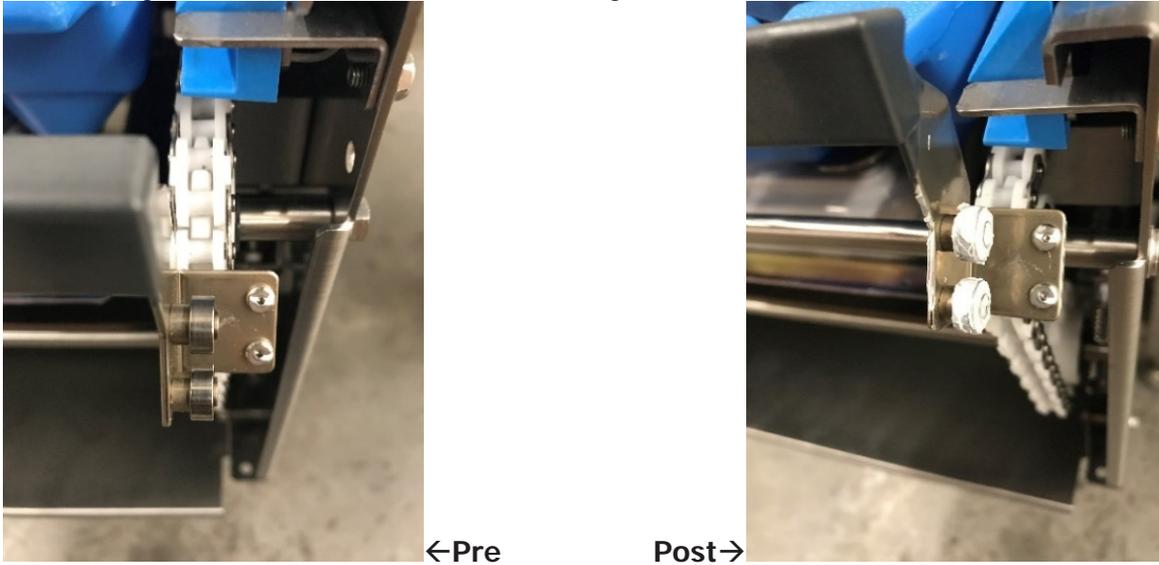
5.2 Remove the **four 10mm** bolts on each caster. Through bolt the extensions using the new hardware.

5.3 Install the casters, using original hardware, threaded into the extensions, **DO NOT USE AN IMPACT WRENCH**:

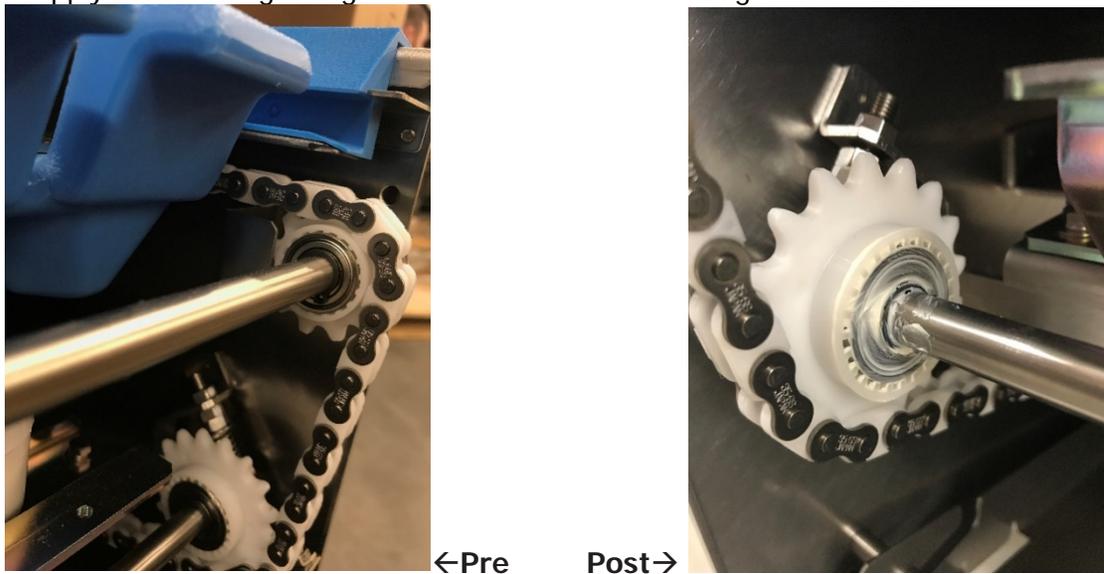


6. Greasing infeed bearings

- 6.1 Remove four **7mm** infeed cover bolts; two underneath. Apply white food grade grease to all infeed pusher bearings; each of the three infeed pushers has a total of four bearings, two on the left and two on the right:

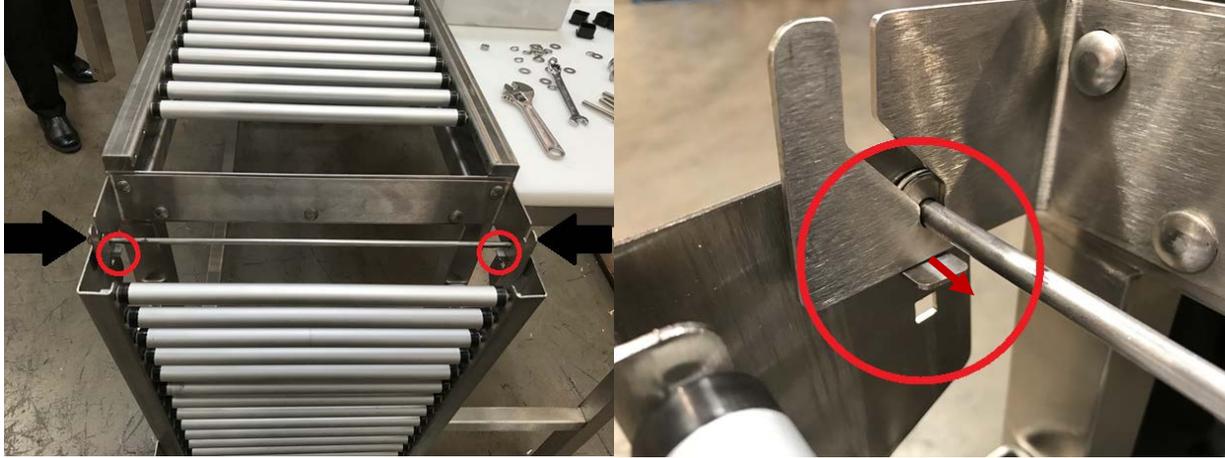


- 6.2 Apply white food grade grease to all four infeed chain gears:



7. Pack-off table assembly

7.1 Install the axel hinge plate with **four** supplied **7/16th** bolts and washers. If not already installed, install axel with supplied acorn nuts and use the supplied clips to align and install the bracing arms:



7.2 Install the dispenser for the small pop labels (**73065**) onto the pack-off table using supplied **four bolts/washers** for the vertical arms into the threaded pack-off frame, as seen to the left:

7.3 **Four** additional bolts/washers/nuts are used for the horizontal rack, as seen below:



8. Hand Wrap Station Assembly

Assemble the hand wrap station as indicated in the picture to the right, using the supplied hardware pictured below:



9. Firmware updates

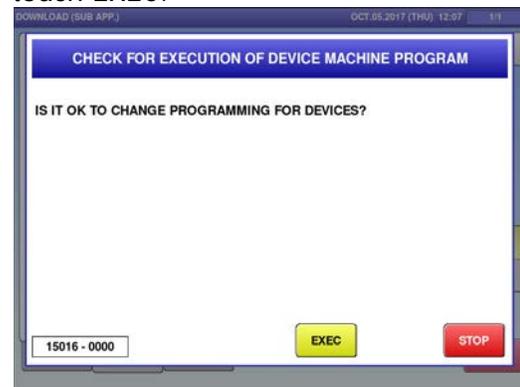
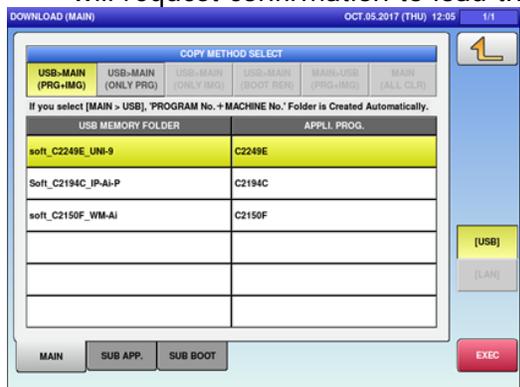
9.1 Document existing firmware and app versions prior to making any changes: **MENU** → **495344** → **LOGIN** → **FIRMWARE DETAILS**:



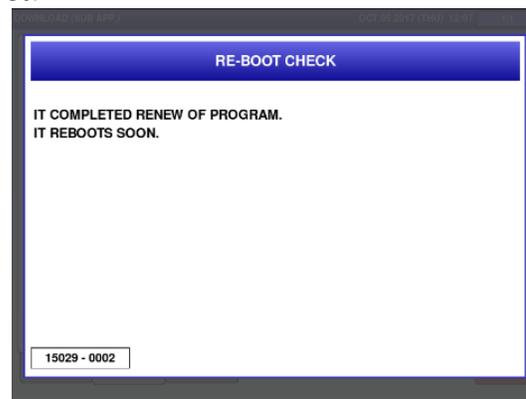
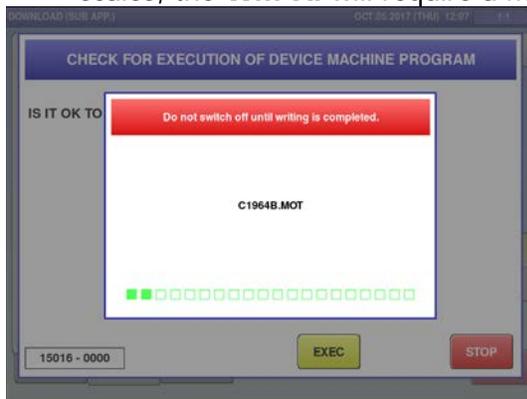
The screenshot shows the 'FIRMWARE DETAILS' screen with a table of software and version information. The table has two columns: SOFTWARE and VERSION. The data is as follows:

SOFTWARE	VERSION	SOFTWARE	VERSION
MAIN	C2250C		
SCALE DRIVER (UPDATER)	B0671(J0835)		
OS	J0829C	PRINTER APP.(BOOT)	C1964B(J0827)
BIOS	J0825		
FPGA APP.(BOOT)	J0820C(J0824)		
SCALE	J0776F		

9.2 From operations screen: **MENU** → **495344** → **LOGIN** → **ADJUST** → **DOWNLOAD** → **MAIN** → **USB>MAIN (PGR)**. Select desired firmware and touch EXEC, a new window will request confirmation to load the program, touch EXEC.

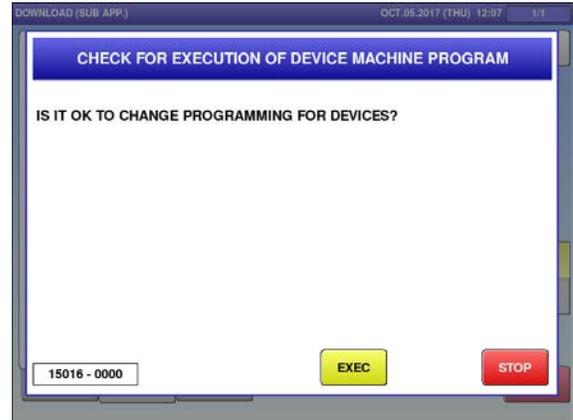
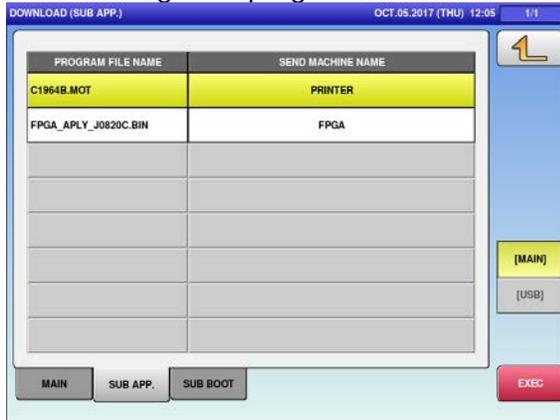


9.3 A progress bar will appear followed by a notification of an automatic reboot on the scales, the **WM-Ai** will require a manual reboot:

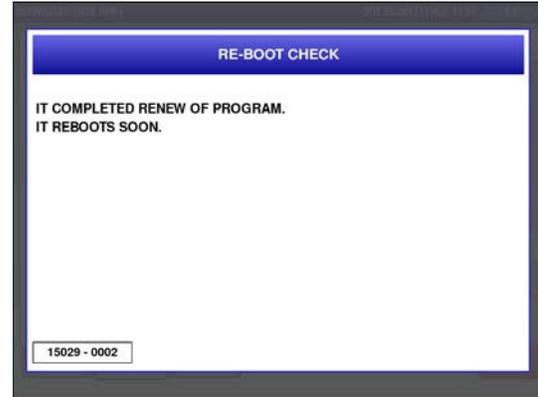
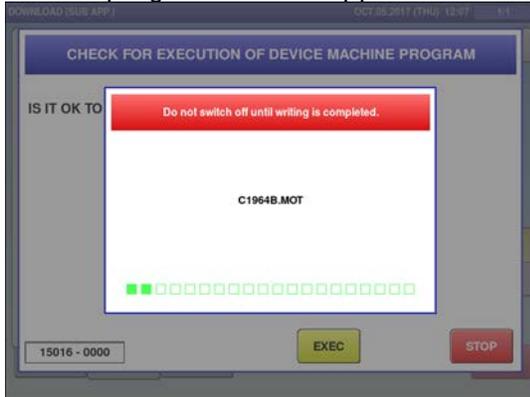


9.4 After reboot, load sub apps: **MENU** → **495344** → **LOGIN** → **ADJUST** → **DOWNLOAD** → **SUB APP.**

9.5 Select desired sub app and touch **EXEC**, a new window will request confirmation to change the program, touch **EXEC**.



9.6 A progress bar will appear followed by a notification of an automatic reboot:



9.7 After reboot, return to sub app to continue loading additional apps if needed.

10. Ethernet routing on the WM-Ai-P

Power off the wrapper and remove the upper right-side panel, take caution to not touch the power supply located in the center of the below image, indicated by the red "X" and "shock hazard" sticker.

Remove the rubber grommet (circled in red below) and cut a small hole to allow the Ethernet cable to pass through.

Route the Ethernet cable as indicated by the arrows:



11. Communication Settings

Location and device	IP address	Subnet mask	Gateway	PC IP address
Meat: WM-Ai (WM)	10.xxx.xxx.193	255.255.255.224	10.xxx.xxx.222	10.xxx.xxx.222
Meat: UNI9DBXL (HW)	10.xxx.xxx.195	↓	↓	↓
Seafood: UNI9DB (SF1)	10.xxx.xxx.196	↓	↓	↓
Seafood: UNI9DB (SF2)	10.xxx.xxx.196	↓	↓	↓
Bakery: IP-Ai	10.xxx.xxx.202	↓	↓	↓
Deli production: UNI9DB (DP)	10.xxx.xxx.206	↓	↓	↓
Deli rotisserie: UNI9DB (DR)	10.xxx.xxx.207	↓	↓	↓

- 11.1 Set the hand wrap **UNI-9** to **MASTER** and set ports to **0** under; **MENU/RETURN** → **495344** → **LOGIN, SETUP** → **MACHINE NO** → **BASIC** tab → **MACHINE SET / MASTER PORT / SAT. PORT**:

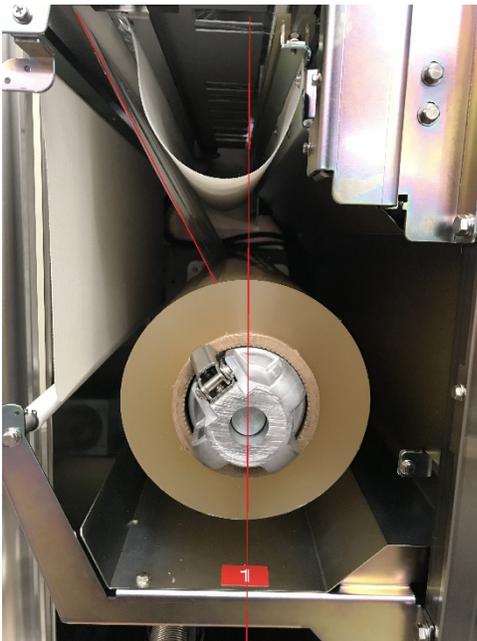
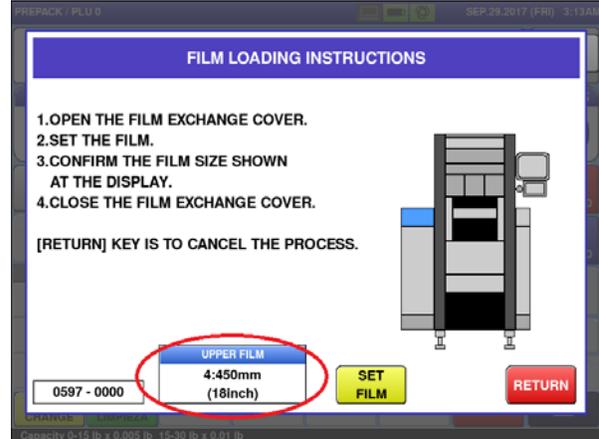
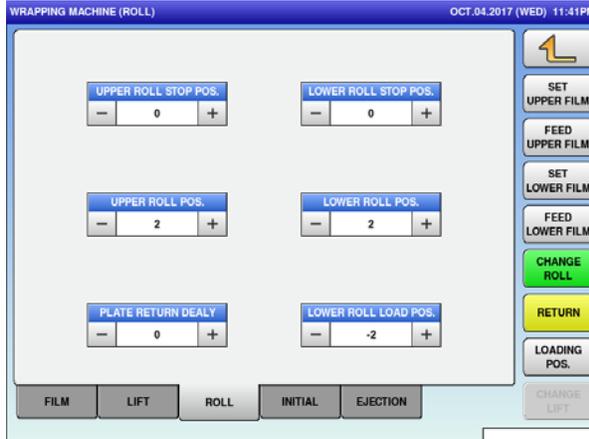
- 11.2 Set the seafood **UNI-9** to **SAT**, set machine **No.** to **2**, set ports to **0** and enter **MASTER IP ADDRESS** to match the hand wraps; **MENU/RETURN** → **495344** → **LOGIN** → **SETUP** → **MACHINE NO** → **BASIC** → **MACHINE SET / MASTER PORT / SAT. PORT**:

11.3 All other equipment should be preset to ALONE.

12. Film roll stop position

12.1 **MENU/RETURN, ADJUST → 495344 → LOGIN → WRAPPING MACHINE → ROLL → SET UPPER FILM.** If the film size is incorrect, enter the desired size (18) on the mechanical keypad and touch **UPPER FILM**.

12.2 Touch **FEED UPPER FILM** twice to allow machine to measure the roll:



12.3 Touch **FEED** again and adjust brake until the film peels off the roll at the **11:00** position:

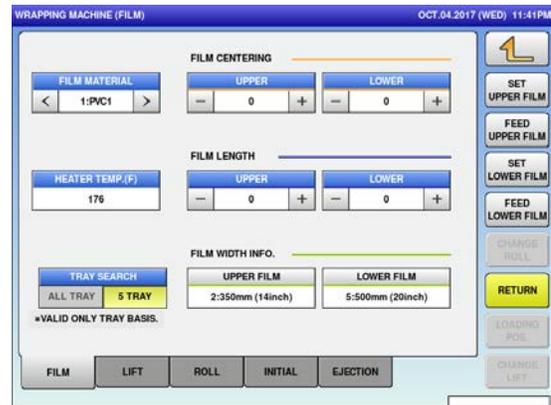


12.4 Repeat procedure for the lower roll.

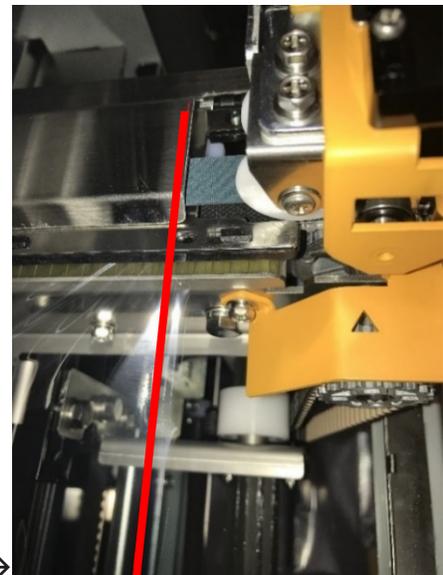
13. Film centering

13.1 MENU/RETURN → ADJUST → 495344 → LOGIN → WRAPPING MACHINE → FILM tab:

13.2 Touch **FEED UPPER FILM** and adjust length and centering as needed in order to align the left side with the orange triangle and right side with the stainless-steel top plate (the red line indicates the film edge):



←Left side - Right side→



13.3 Repeat procedure for the lower film

14. Gap sensor adjustment

Set the sensitivity of the gap sensor to obtain the correct measurement of the label during printing.

Press the **FEED** button 3 times, collect the labels and then press the **DETAIL** button: →



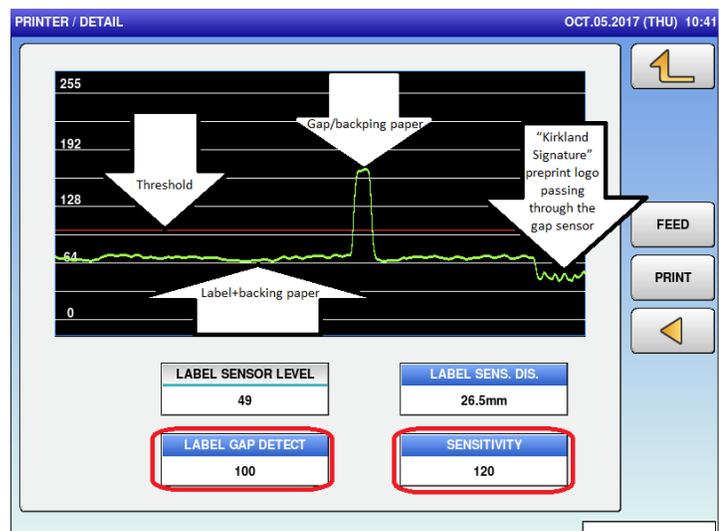
The screen will then display a graph with two lines; green represents the backing paper with and without the label, red is the threshold.

The peak of the green trace represents the gap between the labels (backing paper only) while the lower flat trace is the value of the label and backing paper combined.

A “false gap” variance can be seen on the right side of the green trace; this is the Costco Signature logo passing through the gap sensor; higher numbers represent greater transparency vs lower numbers represent less transparency.

The red trace represents the threshold setting, which should be set about **20** points higher than the highest false gap reading. This is set by using the mechanical keypad to type the desired value, then touching **LABEL GAP DETECT** to set the value:

SENSITIVITY should be adjusted to obtain a difference of at least **100** units between the lower flat line (label with backing paper) and the peak (gap). Using the mechanical keypad, type the desired value and touch **SENSITIVITY** to set.



After any adjustment perform a few label feeds and then check the **DETAIL** screen again.

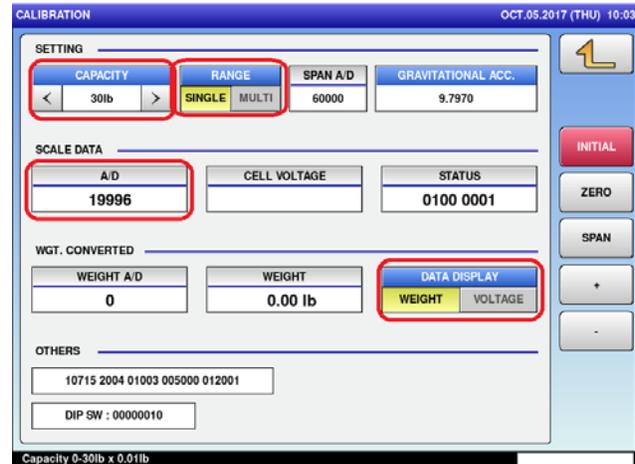
15. Calibration

The scale should be powered up at least 30 minutes prior to calibration. Confirm the scale is level and the four adjusting feet make full contact with the stand. There should be no vibrations, wind currents or direct sun light.

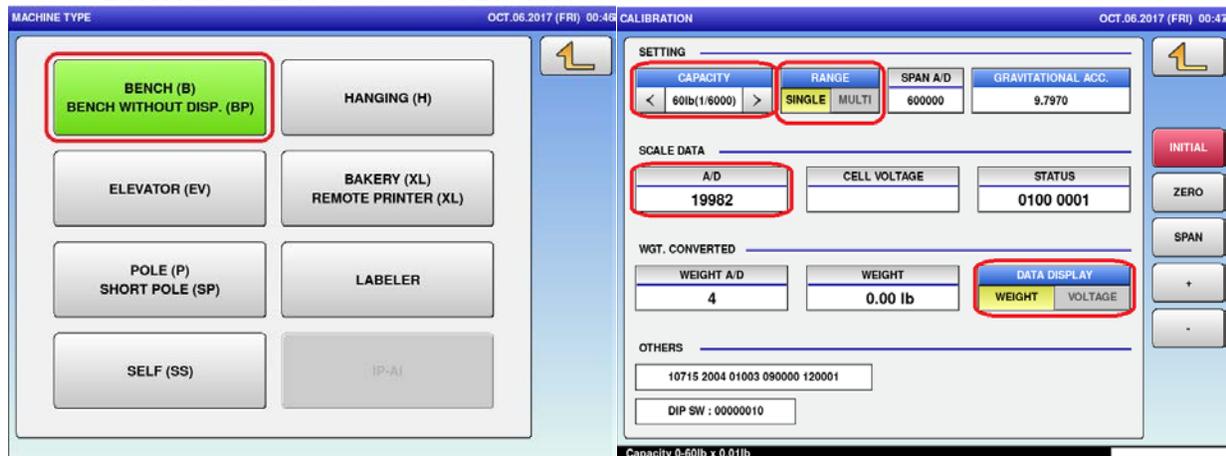
Note: 60lbs will be needed for the hand wrap station and 30lbs for all others.

15.1 Press **MENU** → **495344** → **LOGIN** → **ADJUST** → **CALIBRATION**.

15.2 For deli and seafood scales, confirm the scale is set to **30LB**, **RANGE** is set to **SINGLE** and **DATA DISPLAY** is set to **WEIGHT**: →



15.3 For meat hand wrap, first check that the machine type is set to **BENCH (B)**, then confirm the scale is set to **60LB**, **RANGE** is set to **SINGLE** and **DATA DISPLAY** is set to **WEIGHT**:



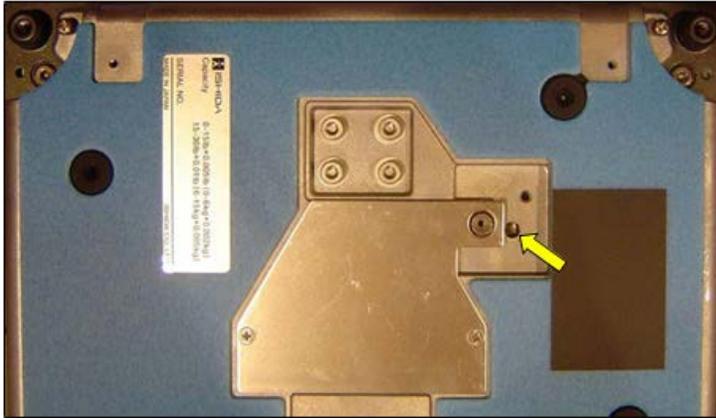
15.4 Remove all objects from weigh platter and press **ZERO**; notice the **A/D DATA** should now read **20000**.

15.5 Place full capacity on scale and press **SPAN**; notice the **A/D** count should now read **80000**.

15.6 Remove the weight and confirm the **A/D COUNT** returns to **20000**. If not, repeat steps **4** and **5**.

15.7 Remove the weigh platter.

- 15.8 Remove the small counter sink screw and seal bolt to remove the metal access plate covering the calibration hole:



UNI-9



WM-Ai

- 15.9 Use a non-conductive tool to press and hold the **CALIBRATION SAVE BUTTON** until the long beep sounds.
- 15.10 Remount the metal access plate and fasteners on the **UNI-9** scales.
- 15.11 Seal the scale as required by local regulations.
- 15.12 Use the provided crimp seal to secure the sealing bolt. A seal bolt is also provided.
- 15.13 Place the platter on the scale.
- 15.14 Verify calibration by pressing **MENU/RETURN**, in operation mode begin incrementally placing the full capacity on the weigh platter.