NITA
SMART LABELING SYSTEMS

SynerG XP series

OPERATOR AND PARTS MANUAL

The SynerG system is a packaged with one or several labeling heads; a conveyor and several options such as a top hold down mechanism, wrap station, container spacing belt, orienting device, tail gates and/or wipe gates.

HMI Password: 12345678
Adv. Settings: 22218360

Some of the options described in this manual may not apply to your equipment.

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1 MANUAL PREFACE – Machine identification

Thank you for choosing NITA. We have designed and manufactured this equipment with the utmost pride and care ensuring you the absolute best quality, maximum versatility and reliability

GENERAL DESCRIPTION OF THE EQUIPMENT

The AE612MKII labeling head included in this SynerG XP model is the product of many years of research and development. Its compact and robust design truly accentuates its versatility in a multitude of applications. We guarantee constant precision and repeatability in a virtually maintenance-free operation. Being built with high grade anodized aluminum and stainless steel ensures that it provides multiple long-lasting benefits in a hostile and humid environment (please note: it is NOT considered a WASH DOWN-friendly system). Its open design, controlled by a servo motor and drive as well as an HMI touch screen operator interface, offers great flexibility suited to handling the most demanding labeling applications.

WHAT IS A LABELING SYSTEM?

Found in almost every sector of manufacturing, a labeling system is used to apply pressure sensitive labels onto boxes, cartons and plastic and glass containers. A labeling system is generally a stand-alone machine and does not require the use of a computer or label software program in order to perform its operations. It is typically built to automatically dispense one label at a time. Using a variety of different media roll widths the NITA system can run to the maximum dispensing speed of 1570 inches / minute and conveying speed of 130 feet/minute. Depending on the application the system will typically receive a signal from a product sensor to allow the dispensing of a label onto a specific product

This equipment is intended to be used only as described in this document. NITA Labeling Equipment Inc. cannot be held responsible for the improper use or functioning of non-described functions of this machinery. Liability for any personal injury, loss of production or revenues, or property damage occasioned by the use of this manual in effect maintenance; operation, or repair of the equipment is in no way assumed by NITA Labeling Equipment Inc. Anyone using a procedure not recommended by the end user should first completely satisfy himself/herself that personal safety and equipment integrity will not be jeopardized in the method selected.

This manual will provide operating instructions, parts listing and schematics. The information contained in this manual will help the user in his/her operations, troubleshooting and maintaining the machine in good operating conditions. Information, illustrations and specifications contained in this manual are based on the latest product information available at the time of this manual release. Nita Labeling Equipment Inc. reserves the right to alter and substitute information contained herein at any time.

It is also possible that you have received a different variation of this equipment, with several different options. This is normal since the same system is used in our, front & back, camera orientation, pail, tamper evident and wrap around and top lid labeling systems. Some pictures used in this manual may not totally reflect your configuration, although the labeling is completely the same.

2 CERTIFICATION APPROVALS

All the NITA systems mentioned in this manual conform to the following certification ensuring quality standards.

Standard 73 from Underwriter's Laboratory (UL) Standard C22.2 no 68 from Canadian Standards Association, (CSA) Tests and certification have been executed and allotted by UL and CSA mandated firm by the name of Intertek and bare the certification markings ETL. FILE IDENTIFICATION NUMBER: 318227

Intertek

AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Nita Labeling Equipment Inc.	**Manufacturer:**	Nita Labeling Equipment Inc.
Address:	1051, rue Le Viger Lachenaie, Qc J6W 6B6	**Address:**	1051, rue Le Viger Lachenaie, Qc J6W 6B6
Country:	Canada	**Country:**	Canada
Contact:	Mr. Luc Harvey	**Contact:**	Mr. Luc Harvey
Phone:	(450) 961-4000	**Phone:**	(450) 961-4000
FAX:	(450) 961-4240	**FAX:**	(450) 961-4240
Email:	lharvey@nita.ca	**Email:**	lharvey@nita.ca

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Lachine, Quebec, Canada

K.F. July 16, 2009

Control Number: _____ **Authorized by:** _____
William T. Starr, Certification Manager

This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc.
165 Main Street, Cortland, NY 13045
Telephone 800-345-3851 or 607-753-6711 Fax 607-756-6699

Standard(s):	UL 73 - Motor-Operated Appliances-Ninth Edition; Revisions Through and Including 12/03/2008 CSA C22.2 no. 68-92 (R2004) - Motor-Operated Appliances
Product:	Labeling Systems
Models:	XP with suffix, JOUST, SS, Lance, AE612-MKII and ST-616

ATM for Report 3176075MTL-001 Page 1 of 1 ATM Issued: _____
ED 8.9.4 (1-Dec-08) Mandatory

3 WARNINGS AND CAUTION INFORMATION

Machine use disclaimer

This equipment must NOT be used for the purposes other than for which it has been supplied to the customer under the purchase agreement and reflected in the quotation provided to the distributor or end user prior to purchase. Failure to use the equipment for the purpose described in this manual nullifies any warranty claim or injury claim that could arise as a result.

Safety

Be certain that the operators and maintenance personnel read this manual before attempting to operate perform maintenance or service to this equipment. Failure to follow these instructions could possibly result in serious personal injury, and cause damage to the equipment, or its components. Recognize safety symbols, words, and labels. Warning and Safety Instructions appearing in this manual are not meant to cover all possible conditions and situations that can occur. Common sense, caution, and care must always.

The SYNERG XP system is engineered to feed and apply labels on your products. In designing this device, NITA valued personal safety; however we would like to draw your attention to the following safety acknowledgments.

⚠	**WARNING**	Hazards or unsafe practices, which COULD result in severe personal injury or death
⚠	**CAUTION**	Hazards or unsafe practices, which COULD result in minor injury
⚠	**CAUTION**	The presence of safety systems in these units does not exempt the operators to act cautiously, avoiding behaviours that could endanger their health or the equipment. These models are engineered to feed and apply labels on your products. In designing this device, NITA valued personal safety; however we would like to draw your attention to the following safety acknowledgments: • Operators should know the basic operations and setup procedures before operating this equipment. • Safe operations should be maintained at all times. • Know the location of E-stops and power switches prior to operating machinery such as this.
⚠	**WARNING**	To reduce risk of fire, electrocution or other personal injury when operating or maintaining the SynerG system, follow basic safety precaution, including the following: • This equipment must have an operator attending the machine at all times to monitor the operations at all times. Do NOT leave this equipment un-attended during maintenance or perform any maintenance on the equipment unless the E-Stop condition has been activated or power turned off. • The electrical power to this device is 240 Vac, 1 Phase, 60 HZ, and 10 Amps. While installing, make sure the electrical cord (supplied without a

		connector plug) is properly configured and connected by a qualified electrical technician. • Do not bypass any of the safety circuits or safety features designed into this equipment. • ALWAYS turn off the power before performing any repairs. • The control box door must always be closed as well as the stainless steel back panel cover of the label head. Do NOT remove this back cover label when machine is under tension (plugged in). • The electrical connection must be done through the end user's electrical panel directly without using a quick-connect or twist lock plug.
	**CAUTION**	To reduce risk of fire, electrocution or other personal injury when operating or maintaining the SynerG system, follow basic safety precaution, including the following: • This device is built to perform in humid conditions, but must not be pressure washed. In case of wash down conditions, it is recommended to cover with a plastic wrapping or Nita's optional head cover. It is always best to remove the system from the wash down environment temporarily to return it afterwards. The use of compressed air and wiping down the device is the recommended cleaning method. • This equipment is designed to function in automatic mode. Do NOT stand, sit or allow any personnel to be within reach of tamp cylinder activation.(if so equipped) • Report any malfunctions, or problems with the equipment to qualified maintenance personnel for repair or adjustments that may be required. • For devices equipped with a pneumatic air cylinder, you must first shut-off the air supply to the device in order to change label roll (or perform all set-up operations).

For systems containing conveyors, you must be vigilant with loose clothing or bodily parts as they can get caught in the conveyor's belt or chains as direct injury or death can incur. DO NOT use the conveyor as a working platform or walkway.

TUCK IN ANY LOOSE CLOTHING. DO NOT WEAR TIES, PENDANTS, JEWLERY OR ANY OTHER ARTICLE OF CLOTHING OR ACCESSORY THAT MAY GET CAUGHT ON ANY PORTION OF THE SYSTEM

4 PRODUCT INTRODUCTION

The SynerG XP system is a conveyor with many options packaged together to make a complete system. Each additional component will be described in this manual. With the appropriate settings, the XP100-200 can fulfill all your labeling requirements. The XP100-200 can accept cylindrical as well as parallel lipped products in a tapered or non-tapered form. In its normal operation mode, the XP100-200 can apply labels on one side or offer 360 degree of freedom around a container; it can label multiple panels of the container as well as cater to front & back applications.

The XP100-200 is an assembly of 3 major components

- Conveyor
- Wipe-on label applicator
- HMI and electrical cabinet

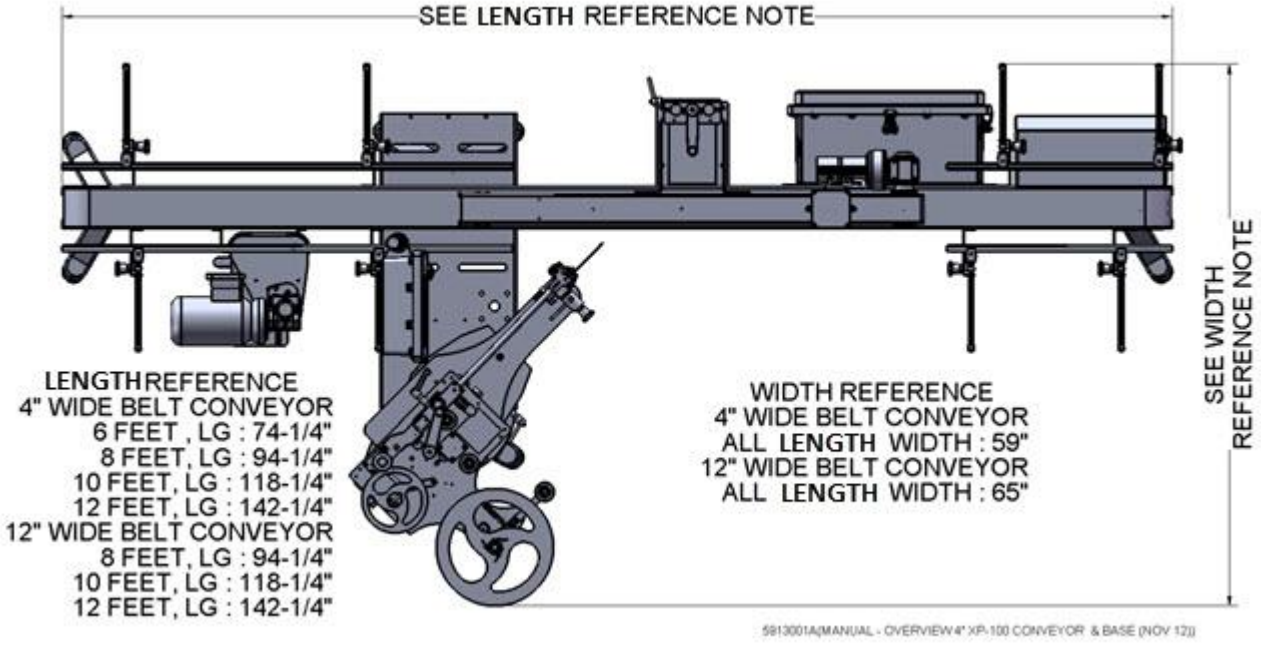
Four different models are available

- XP100 Conveyor with one labeling head
- XP100-T Conveyor with one labeling head and top hold down belt
- XP200 Conveyor with two labeling heads
- XP200-T Conveyor with two labeling heads and top hold down belt

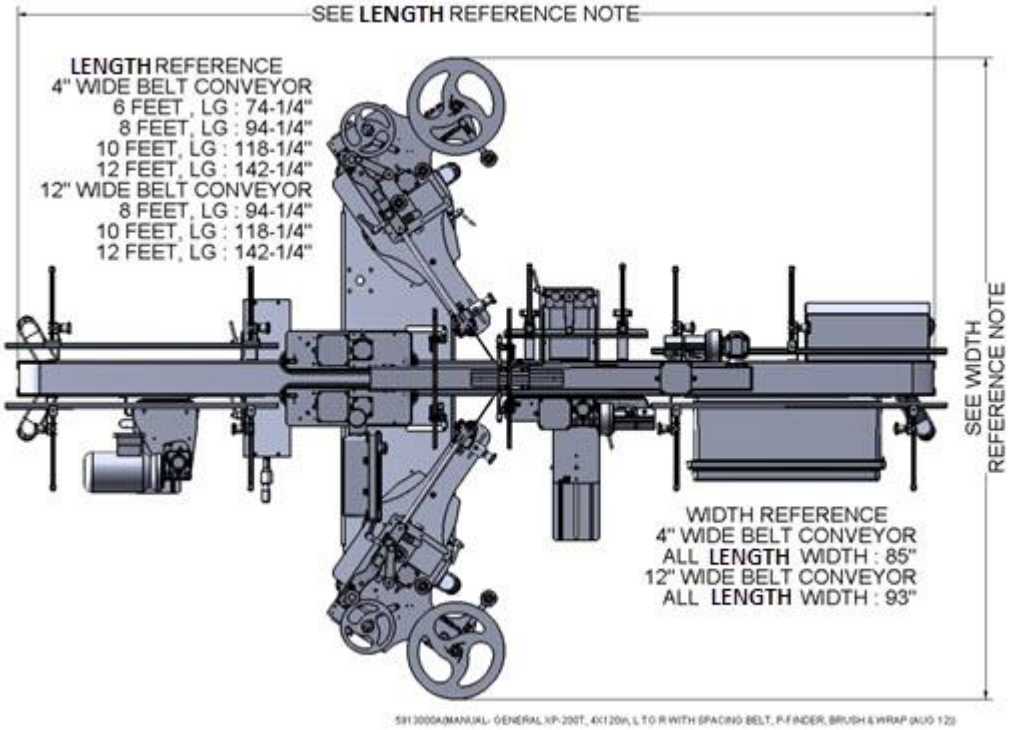
	8' Long x 4" Wide
	10' Long x 4" Wide
	12' Long x 4" Wide
	8' Long x 12" Wide
	10' Long x 12" Wide
	12' Long x 12" Wide
Height with HMI pole mount	85"
Power requirements	200-240 VAC, 10 Amp, 50/60 Hz, 1 Phase
Air requirements	With Tamp blow, wipe gate, prism, air assist = 80 Psi / 3 scfm

Dimensions:

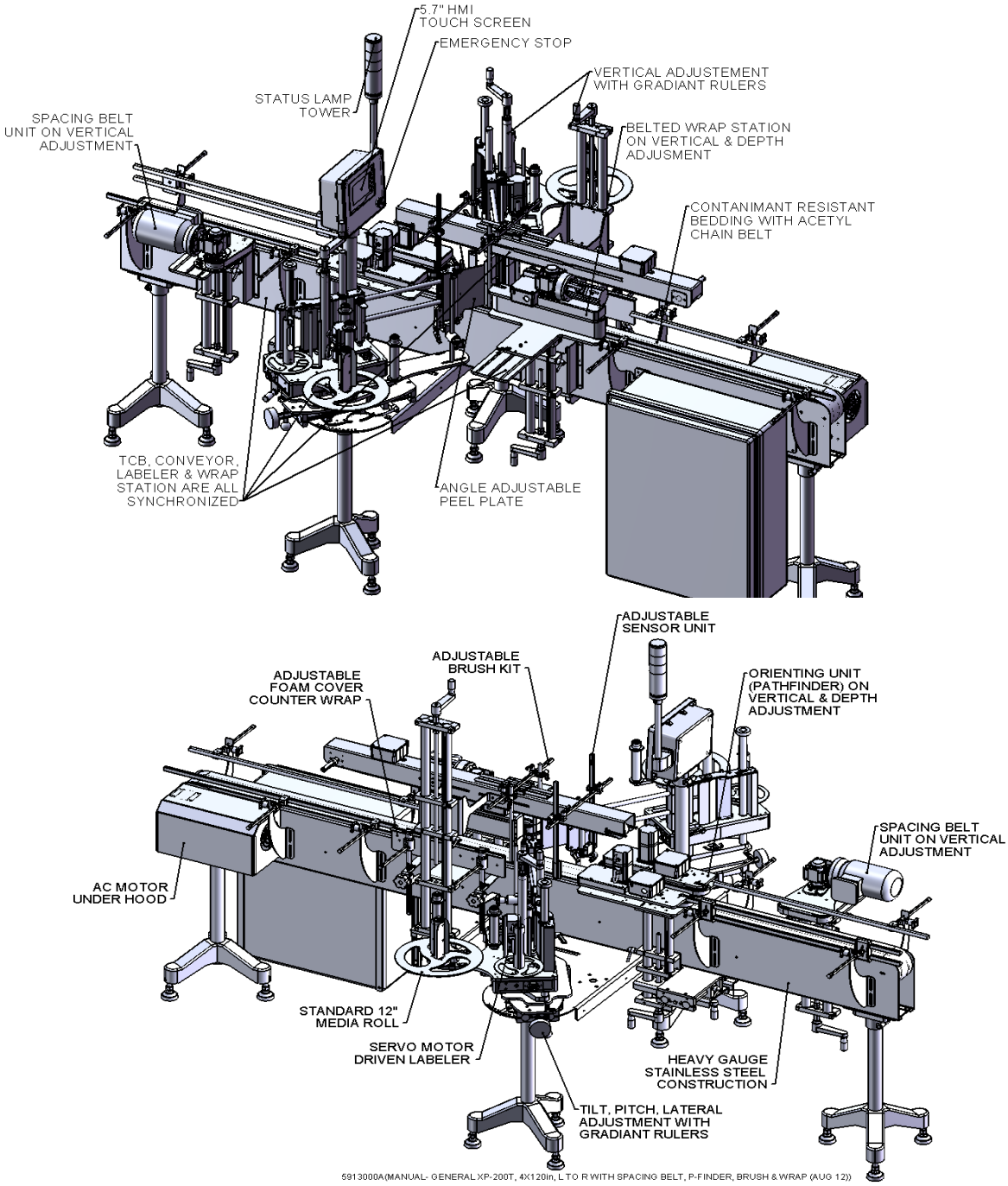
XP100 – XP100T:



XP200 – XP200T:



Bird's eye view



5 SHIPMENT RECEPTION (uncrating)

For shipping purposes, a half crate is used. This avoids any damage to the device as well as protects the adjustment settings allowing for a very stable product once installed in its final destination.

The crate is generally pop-nailed together and can be taken apart by using a simple hammer or a nail crowbar. Proceed in removing the side wood panels from the crate and work your way inward.

⚠	**WARNING**	Always be vigilant while using any tools as they can result in bodily injury.

The SynerG was carefully packaged and protected prior to transportation. On reception of the machine, a complete visual inspection should be done in order to detect any apparent damage before proceeding with the equipment power up.

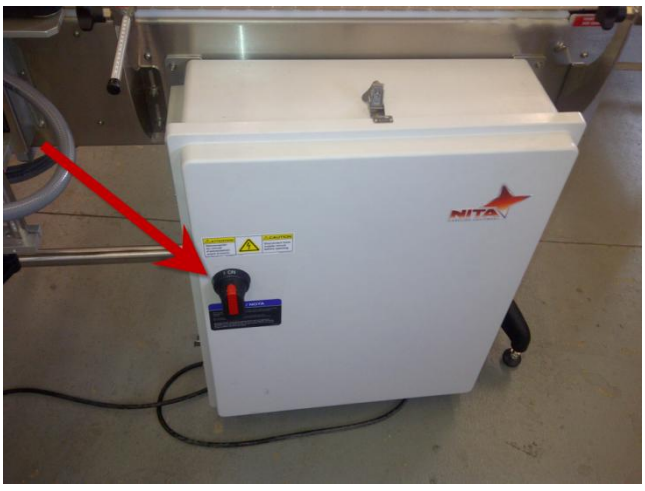
If any anomaly is detected, verify if the packaging/crating shows apparent damage. If it is the case, please contact the transporter right away (it is always a good idea to take pictures of the damages).

After the visual inspection is done, proceed with the un-packaging of the SynerG. The SynerG should be installed on a level floor with **200 - 240Vac, 1 phase, 60 Hz, 10 amps** and compressed air 80 PSI available in proximity.

Ensure the SynerG is perfectly level to the ground. If necessary, the level of the SynerG can be adjusted with the adjustable legs located at the extremities of the frame.

Once the SynerG system is perfectly levelled, you can connect the power (200 - 240 vac) and the compressed air (80 PSI).

To turn power ON or OFF, simply turn the main handle power switch on the electrical panel (as shown here)



6 SYSTEM SETUP

This equipment can accommodate many variations of containers on the market. There are adjustable components on this machine that allows the operator to effectively make changeovers. The proper adjustments are described in the following pages.

6.1 MAIN CONTROL PANEL with HMI Touch Screen

The main control panel is a HMI (touch screen) controller and appears such as the picture below shown below.

The HMI panel allows the user to switch between manually and automatically controlling the speeds and all peripheral functions of the equipment.

6.2 Labeling Head:

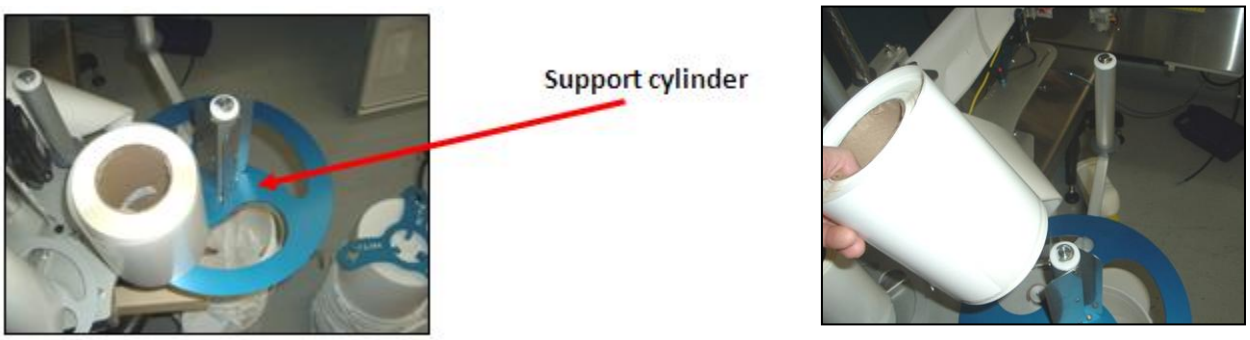
6.2.1 Loading & unloading the label stock roll

⚠	**CAUTION**	To avoid injuries, you must keep the unit in MANUAL mode!

Look carefully at the diagram and follow the threading procedures indicated below.

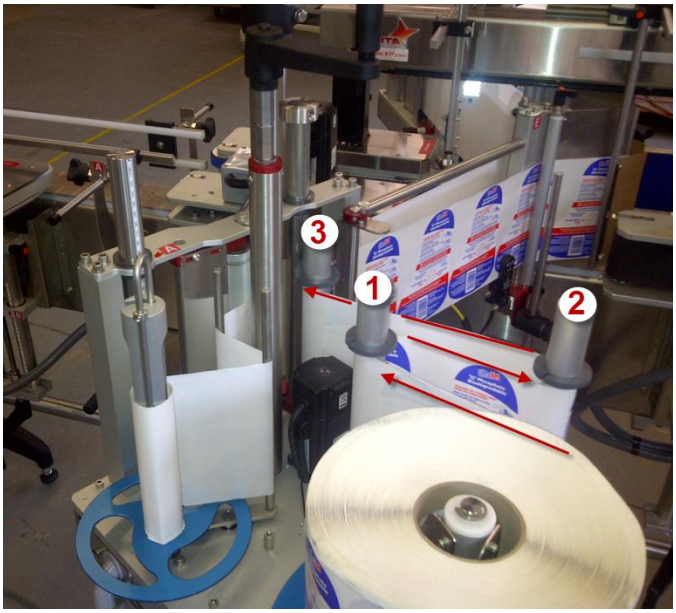
You will also find the threading diagram directly on the Label applicator head as well as a quick reference

1) Place the label stock roll on the label support cylinder. Make sure that the stock roll is well secured

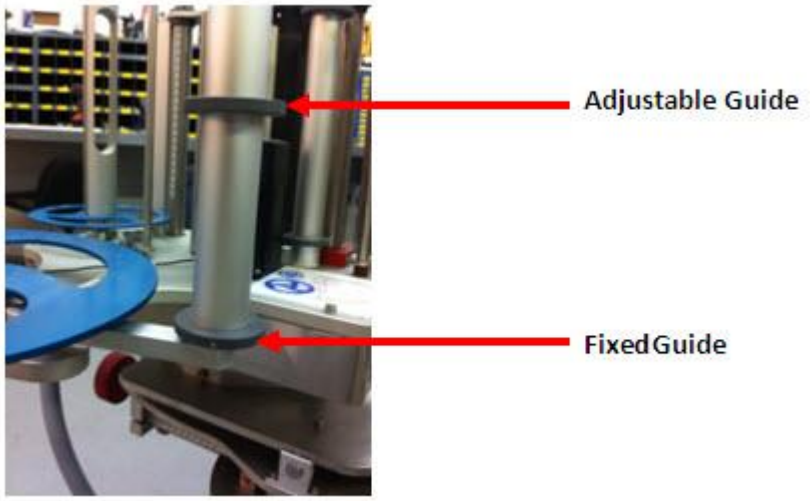


2) Pull approximately 36 inches of stock from label stock roll.

3) Follow the webbing diagram as shown in this manual or on the ID plate of the device itself.

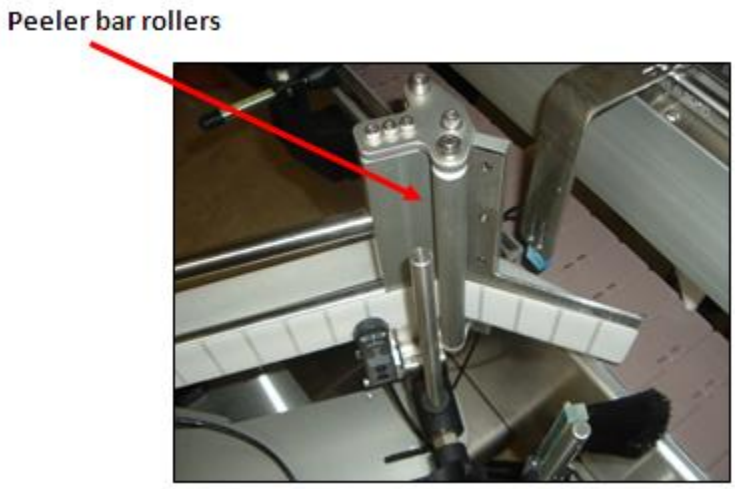


4) For different label widths, slide the guides on the rollers to avoid label swirling. Do not move the guides closest to the main plate, these are the zero point.



5) Release the spring-loaded tension plate by gently pulling the lock.

6) Feed the label stock under the peeler bar rollers



7) Release the pressure on the feed roll by pulling the door and then feed the label stock. Close the door when done.

8) Wind the label stock on the re-winder and lock it in place with the u-shaped hook.

9) Loading and unloading the re-winder

Release the u shaped pin by simply turning counter clockwise, gently pull away at the u-pin and remove waste. To reload the pin, place the pin into slot with the flat portion of pin guided throughout the core, and simply twist clock wise into rounded slot to lock down.

PRACTICAL HINTS:

Set the machine in manual mode, this will avoid any undesired signals from the product sensor.

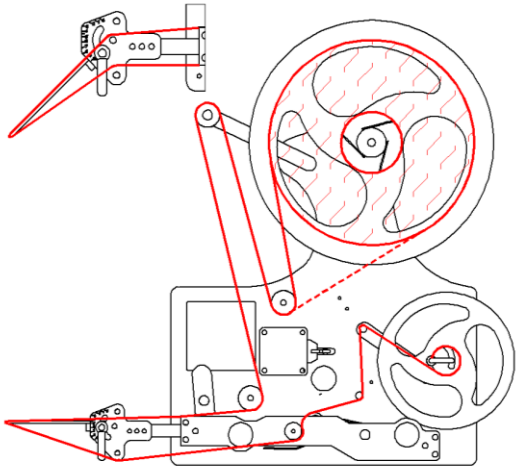
To avoid labels from sticking to the drive roll, **do not override label on the peel bar**.

Turn CCW and gently pull the hook to remove the waste on the re-winder roll

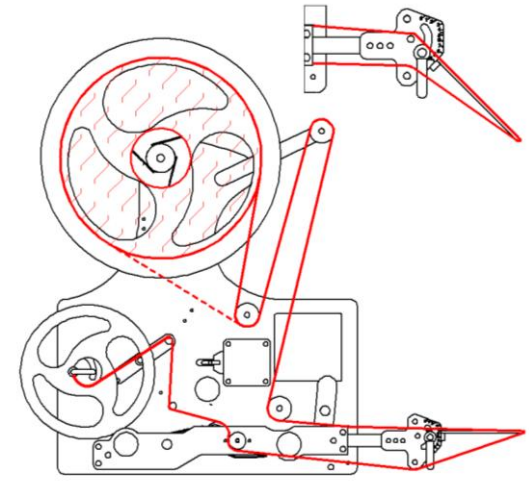
Label threading and machine components

Look carefully at the diagram and follow the threading procedures indicated below. You will also find the threading diagram directly on the Label applicator head as a quick reference.

AE612MKII

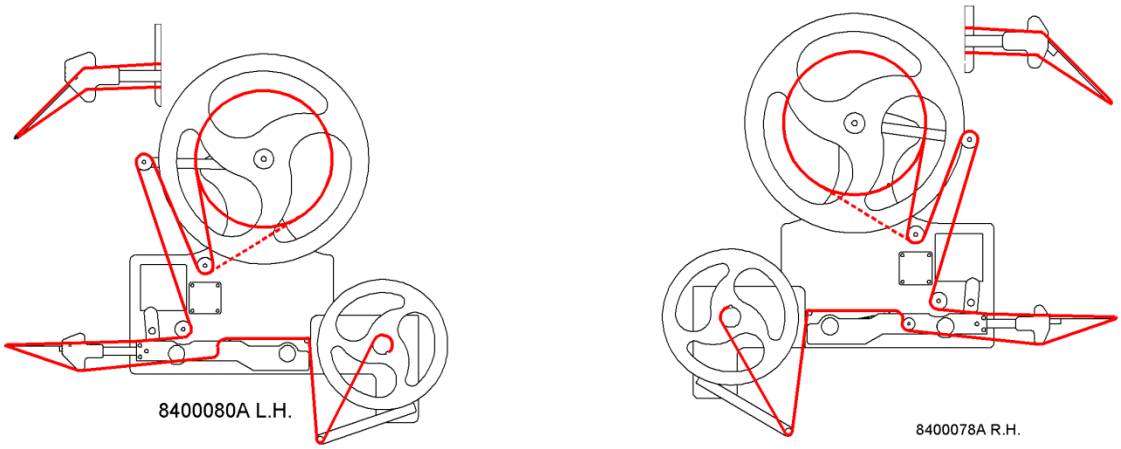


8400044C L.H.



8400045C R.H.

AE616MKII



6.2.2 Connectivity and labeler head manual feed control button

On the side of the labeling head you will find:

A manual feed button (which is also found on the HMI touch screen).

Two inputs are also present. One is for the gap sensor which detects the GAP between the labels and provides proper dispensing of labels. This may also be a sensor that can read black marks. The other input is for the product sensor.

6.2.3 Setting the Label GAP sensor

6.2.3.1 Standard GAP sensor – for Opaque labels Tritronic model # LER

Normal Label Opacity Autoset™ Button

This category includes most paper or metallic film labels adhering to paper or transparent backing materials. To implement the one button Autoset™ routine, utilize the external alignment guides to position the gap between labels in line with the dot shown in the center of the detection zone.

Then push the Autoset™ button marked "Normal". An alternative set up procedure would be to remove a label and the push the "Normal" Autoset™ button.

This is why we recommend setting up the sensor with the actual "gap" between the labels properly positioned. On rare occasions, when the light is unable to penetrate the backing materials, both the red and green LED indicators will blink four times. When this indication occurs, the sensor will be unable to detect the presence of the labels.

Translucent Label Opacity Autoset™ Button

This category includes translucent labels adhering to transparent backing materials. This sensor can detect transparent labels adhering to transparent backing materials. The question is how close to transparent can the labels be and still be detected? There is no definitive answer to that question.

To determine if detection of a translucent label adhering to transparent backing material is to try the following:

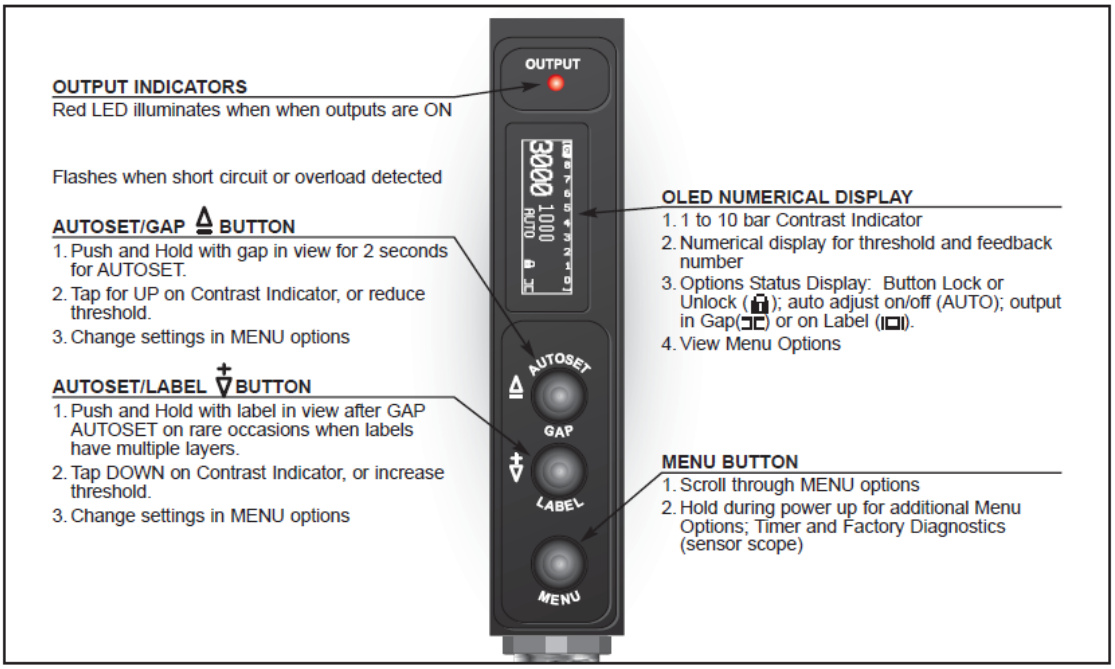
Autoset™ procedure: First utilize the external alignment guides to position the gap between labels in line with the dot shown in the center of the detection zone. Then, push the Autoset™ button marked "Translucent". The next step is to move the web so that the translucent label goes in and out of the light

beam. If detection is possible, the red LED output indicator should go on when the label passes through the detection zone.

INVERT OUTPUT: The status of the red LED and output transistors can be inverted by pressing both buttons simultaneously. When the output status has been inverted, the red LED and the output transistors **will turn off when the label comes into view**.

6.2.3.2 GAP sensor for transparent label Tritronic Model # CLS

Sensor overview:



Calibration procedure:

1) Put the backing material only and press and hold **Autoset/GAP** for 2 seconds
2) Put the backing material with the label, press and hold **Autoset/Label** for 2 seconds

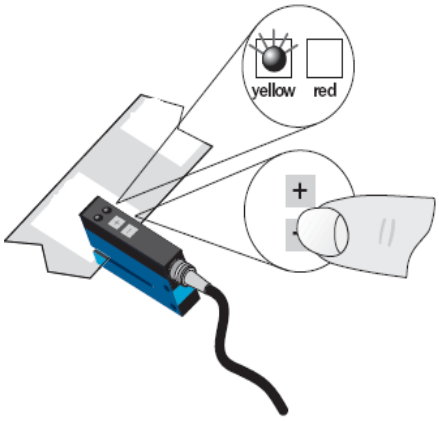
6.2.3.3 **GAP sensor for transparent label SICK Model # UF3**

The ultrasonic fork sensor is tasked with the safe detection of totally different labels on totally different carrier materials. High positional accuracy and stable response times make the fork sensor universally applicable.

Adjustment of the switching point in “light-switching” mode: switching output Q is active if the carrier material is detected between the labels (gap detection).

Position label between the active surfaces of the fork sensor (see arrow on sensor). Adjust with “–”, or “+” until the switching output indicator is safely off.

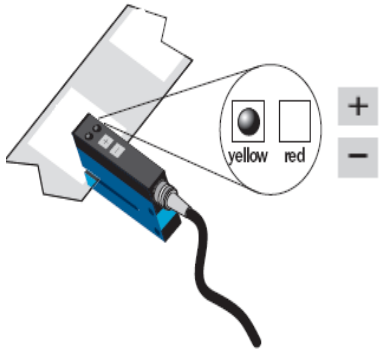
Position carrier material in the active area of the fork sensor. The switching output indicator (yellow) must light up again; if this is not the case increase sensitivity with the “+” button until the switching threshold is correctly adjusted.



If necessary, adjust the switching point slightly in the other direction.

Sensitivity setting

Slow setting: Press “+” or “–” button once, LED (red) lights with each button hit. Fast setting: Press “+” or “–” button permanently, LED (red) flashes after 2 seconds.



Light-/dark-switching

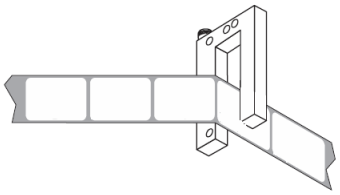
± L/D 6s

Press “+” and “–” buttons simultaneously for 6 seconds, LED (yellow) changes status, and the LED (red) flashes slowly. Release “+” and “–” buttons.

Locking the buttons

± 3s

Press “+” and “–” buttons simultaneously for 3 seconds, button lock is enabled/disabled. Locking the buttons: The red LED goes off after 3 seconds, release “+” and “–” buttons, LED (red) lights permanently. Unlocking the buttons. The red LED lights after 3 seconds, release “+” and “–” buttons, LED (red) extinguishes.



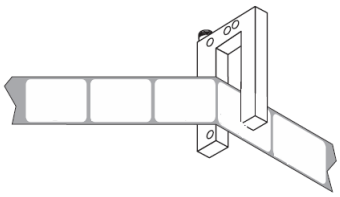
6.2.3.4 GAP Sensor calibration - Quick procedure – SICK Model UF3

Begin by making sure that the sensor is in UN-LOCK mode. You will be able to observe a red LED on the sensor when it is locked. To unlock, press and hold both the + and -buttons simultaneously for 3 seconds. The red LED will turn off and will re-light, once it has done so, release the buttons, the red LED will remain off which will indicate the unlocked mode. Proceed with calibration.

1) Remove a label from its liner (carrier media)

2) Place the empty portion of the liner between the ultrasonic forks

NOTE: The liner must rest on the lower portion of the sensor as seen below



3) (one of two scenarios will happen, the orange LED will either shine or not)

If the LED shines…Press the minus (-) button until the LED turns off, Next press the (+) until the LED shines again. This gives you the TRUE signal

If the orange Led is not lit, press the (+) until the LED shines again. Now you obtain the TRUE signal.

Each time you press the (+) button you will notice that a red Led shines. This is to confirm that you are indeed pressing the (+) button

4) Press on the (+) button approximately 15 times, now you obtain a happy medium.

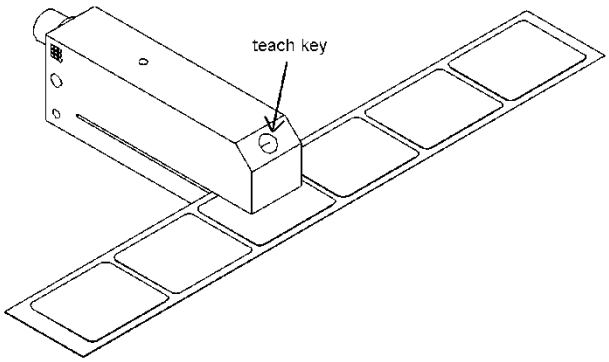
You can verify the calibration by manually showing the liner with the label to the sensor as seen above. When it is calibrated properly you will see the orange LED light illuminate when the sensor passes over the GAP section.

6.2.3.5 GAP sensor calibration - CLEAR label - Quick procedure Di-Soric Model # KSSTI 1000 (Capacitive - Black)

1) Press teach key and hold for 2 sec.

2) The LED on the sensor will flashes

3) Pull the label thru to the slit of gap sensor and pass at least 2 labels.



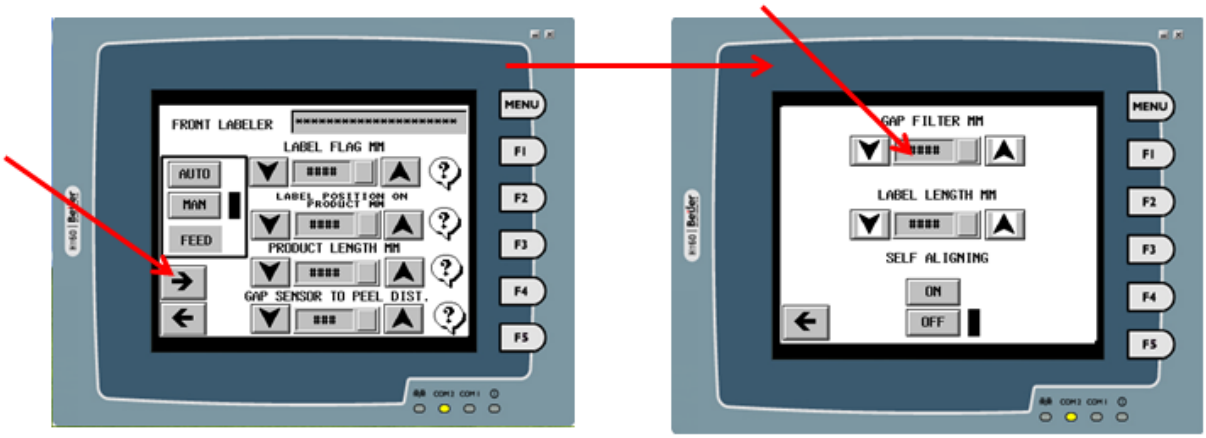
6.2.4 Filtering the Gap sensor trigger

This is a procedure to be applied when the label shape is such where a double trigger on the gap would happen (such as illustrated).

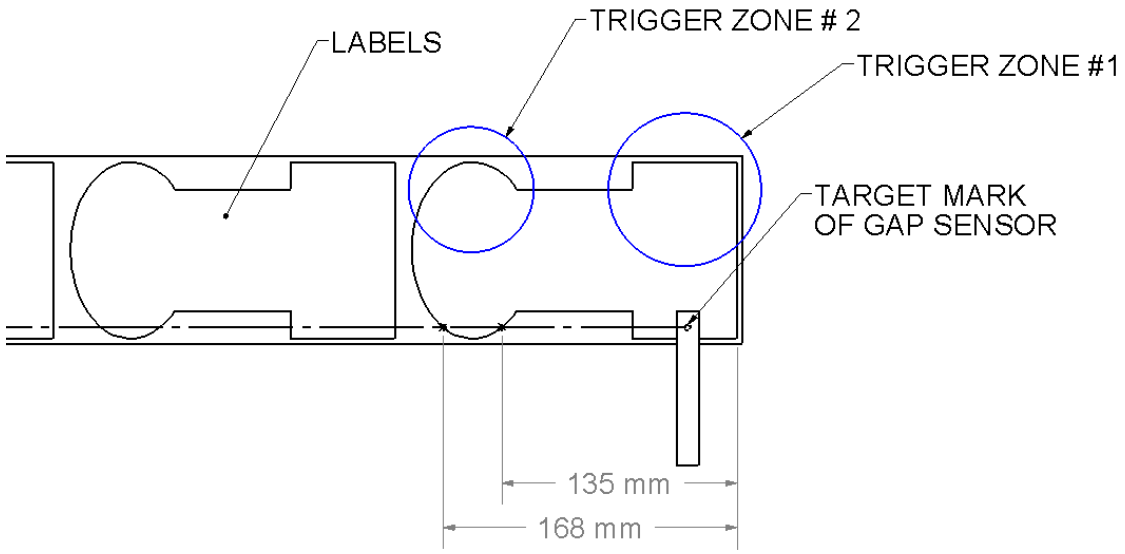
On this example we can clearly see that the signal from the gap sensor would get triggered by two zones of the same label. This will cause two feed triggers for the same label when in fact there is only one label to be fed. To avoid this double feed… **you must adjust** the "GAP FILTER MM" setting which is located in the

OFFSET SCREEN (as demonstrated here). This setting is present for each label head on the system (when equipped by multiple labellers).

Click ''Next'' in the Offset Screen



On this screen you will enter the label length to be ignored by the sensor. The example above shows us that the proper value to be entered is between 135 & 168 mm a recommended value to be entered in the HMI screen, for this application would be 152mm.

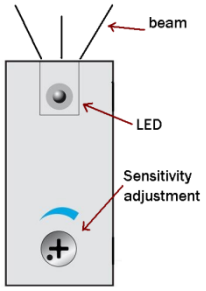


6.2.5 Product sensors

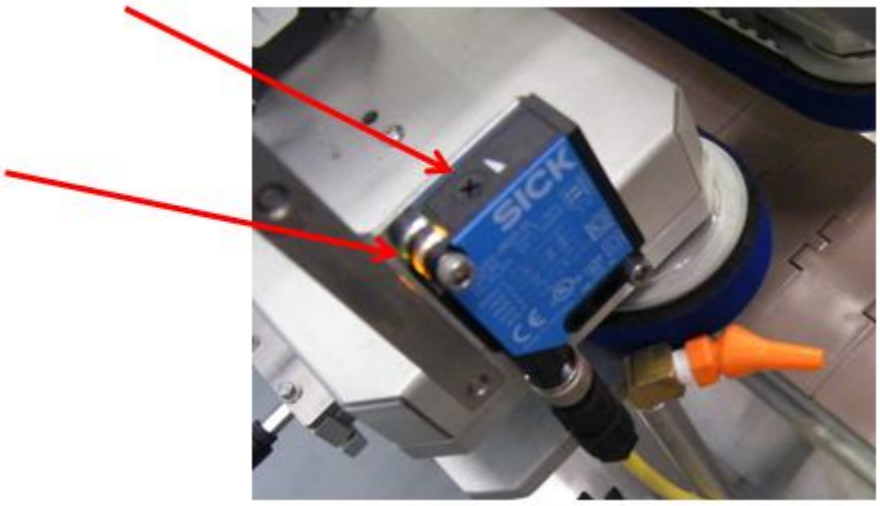
The product sensors are each connected to the electrical box via the input slot. Ideally when installed on the bracket correctly, the sensitivity of the optical beam is reflecting off the reflector. Too sensitive and the sensor will not reach the reflector.

To ensure that the proper sensitivity is obtained:

Make sure that the sensor beam is aligned with the reflector on its opposite side of the product.



1) To adjust, use the sensitivity adjustment, control how far you beam will detect. Turn the adjustment (CCW) (see drawing) until the LED turns off.
2) Turn the adjustment (CW) slowly until the LED lights up again.
3) Continue turning CW for an additional ½ turn.
4) Check the calibration by simply placing your hand between the reflector and the sensor. The beam should be broken and the lead light should turn off. If this is the case, the sensor adjustment is set.

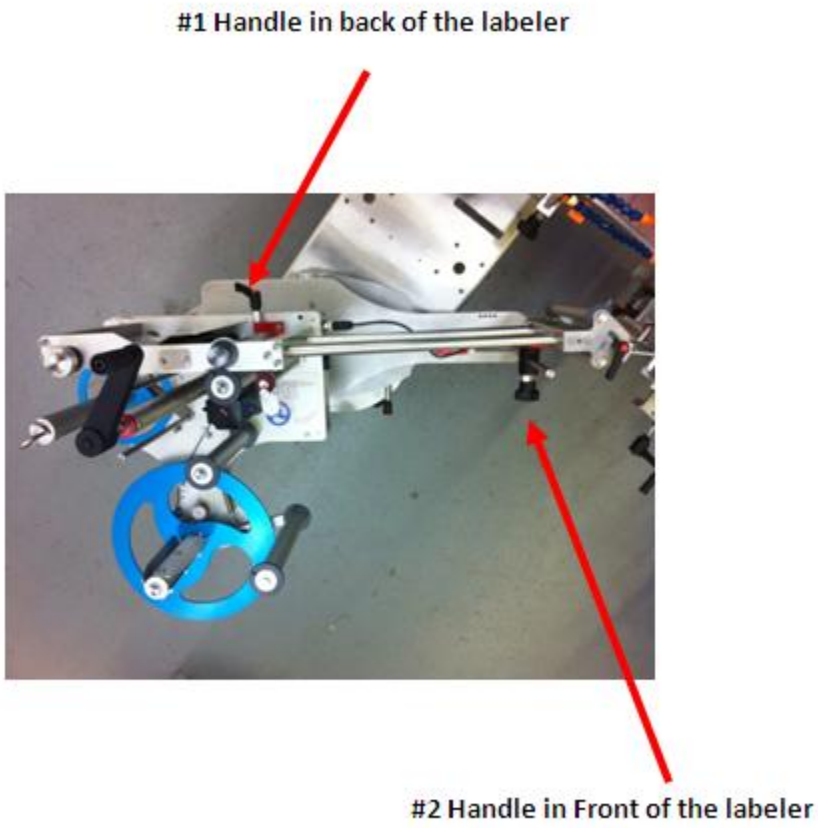


<u>HINT:</u> By hand, allow the product (empty in the case of a clamshell) resting on the conveyor to pass in front of the sensor reflector at a low speed and confirm that the sensor LED stays off all through the passage of the clamshell.

6.2.6 Mechanicals Setup with Rulers:

6.2.6.1 Vertical adjustment: Letter A

The vertical adjustment is to position the label at different heights. It's practical if you have different size labels and/or container formats. To adjust the height, you will **FIRST need to unlock the adjustment holder**. To do this, lift and turn the small handle **(#1)** counter clock-wise to loosen the adjustment. Next direct your attention towards the peel plate where there is a tension knob **(#2)** that also needs to be released prior to adjusting the labeler's height. Next, using the crank handle **(#3)** located on top of the labeler; turn CW to lift the label head and CCW to lower the label head. Use the gradient ruler **(#4)** to obtain a perfect positioning reference as per your requirements and register it in your HMI (touch screen), if it hasn't already been done.



6.2.6.2 **Lateral adjustment: Letter B**

The lateral adjustment is to position the peel plate over the conveyor. The size of your container will determine the position of adjustment. To adjust the position, lift the handle with the orange center by pressing down on the center to access the unlocking mechanism of the handle. Next, using the RED KNOB, position the peel plate as close to the container as possible. Turn CW to go approach the container or turn CCW to move away from the container. Use the gradient ruler to obtain perfect positioning reference as per your requirements and register it in your HMI (touch screen), if it hasn't already been done.

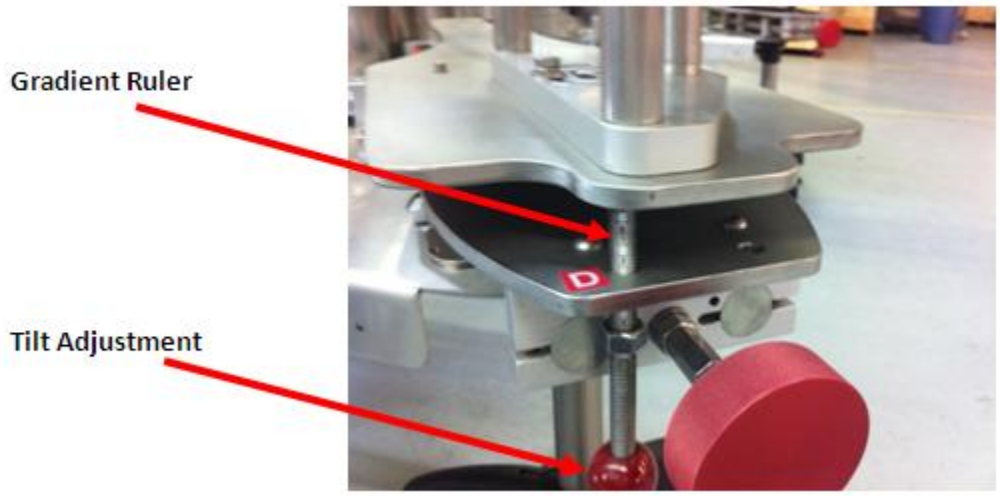
6.2.6.3 **Angular adjustment: Letter C**

The angular adjustment is very important to increase the repeatability of the process. A good adjustment is when the exit of the label is tangent with the surface of application (at approximately a 15 to 20 degree angle against the surface of application).

This result is achieved when you set the lateral adjustment and position the label head using the slotted hole on the table.

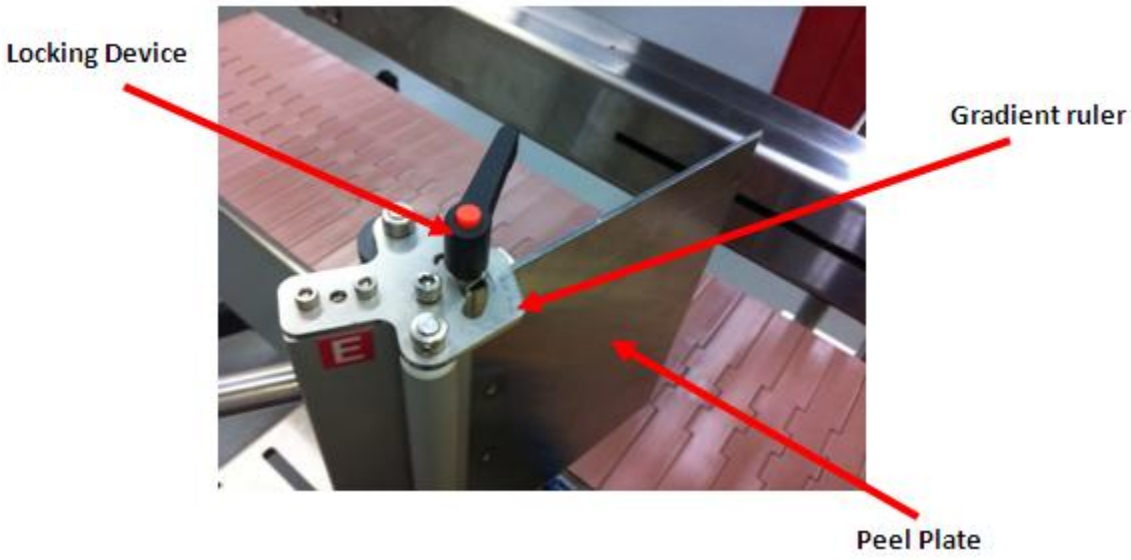
6.2.6.4 **Tilt adjustment: Letter D**

There is another possible way to position the label head for best results. It is a fine adjustment that increases the parallelism of the label compared to the shape of your container. There is no ruler to guide you with this adjustment but in general it's very quick adjustment and not subject to change. This adjustment is generally necessary when initial installation of this machine is done.



6.2.6.5 **Peel plate angle adjustments: Letter E**

The peel plate is also angle adjustable. Use the locking device to loosen the peel plate, place the angle as desired and re-fasten.



HINT:

A good adjustment is when the exit of the label is at a 15 to 20 degree angle against the surface of application.

Peel Plate:

The stainless steel peel plate removes the label from the liner. Different peel plates can be adapted to the "Wipe-on Label Applicator".

6.3 Conveyor settings

Every SynerG XP system comes standard with a mono-bloc stainless steel structure (one piece) to allow for cleaning below the belts (acetyl or Delrin). This provides a much more sanitary use since there is no risk of contamination. Each conveyor is driven by a maintenance-free AC motor and is synchronized to all other motorized components via an encoder.

It is possible to start/stop the conveyor as well as change its speeds by using the CONVEYOR icon on the HMI touch screen. - Refer to the HMI section in this manual.

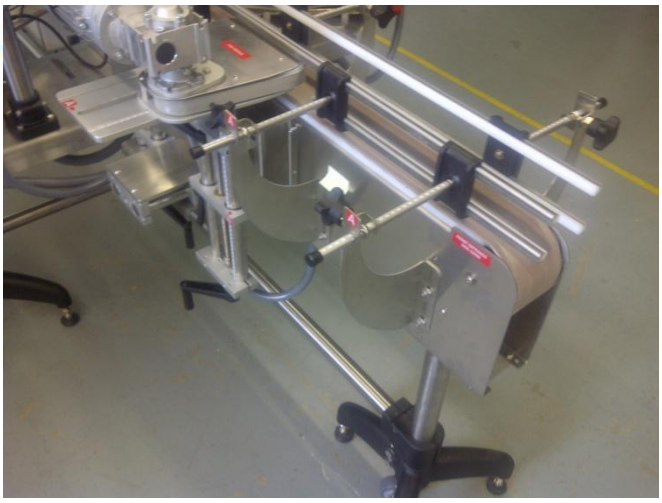
Conveyor Accessories:

Guiding rails:

There may be many guiding rails used in each labeling application. Each has an identification letter and a gradient ruler for easy settings. These rails, at the entrance, are used to position the product on the conveyor belt for optimum labeling.

Guiding rails settings:

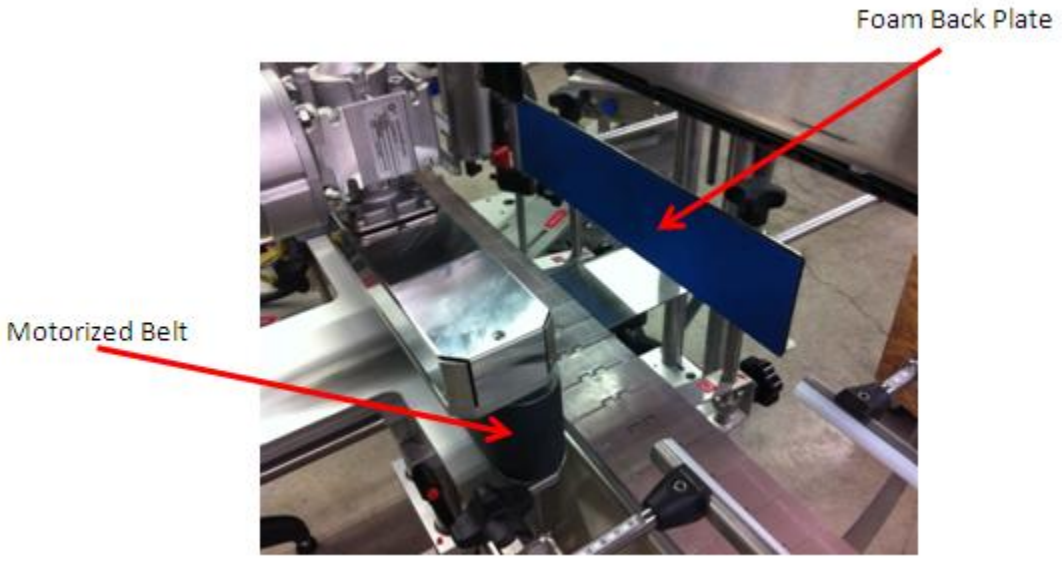
The position of each rail can be adjusted independently. To move the rails, simply unlock the adjustment and move the rail, either toward the center or the side, of the conveyor. ***It is important that the guiding rails be parallel to the conveyor to ensure proper product displacement on the conveyor. The values on the precision scales should be entered into the HMI (touch screen) as part of the recipe. SEE HMI (touch screen) SECTION***



6.4 Wrap station

The wrap station is generally positioned near the labeler head and is made up of a belt activated by a servo-motor coupled to a transmission and an adjusting plate. The wrap station is used with cylindrical products to ensure proper labelling around the container.

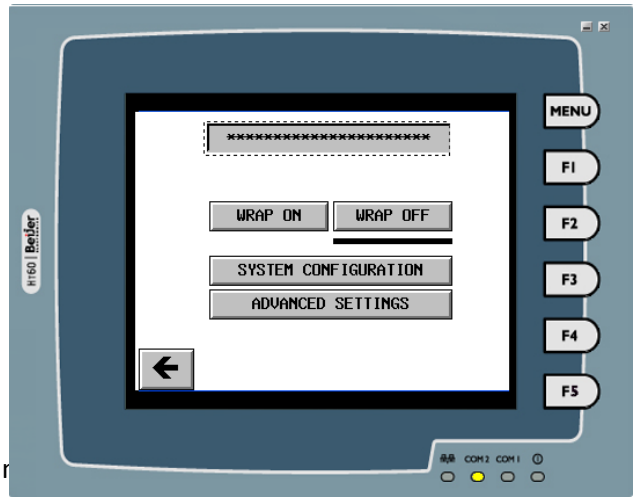
This module is servo-driven and synchronized to the system's main conveyor speed. It is composed of two parts; Motorized belt and foam back plate. It is generally used for wrapping the label around a (non-tapered) cylindrical container.



This module has three possible adjustments, the depth of the motorized belt according to conveyor height adjustments, the foam back plate module positioning.

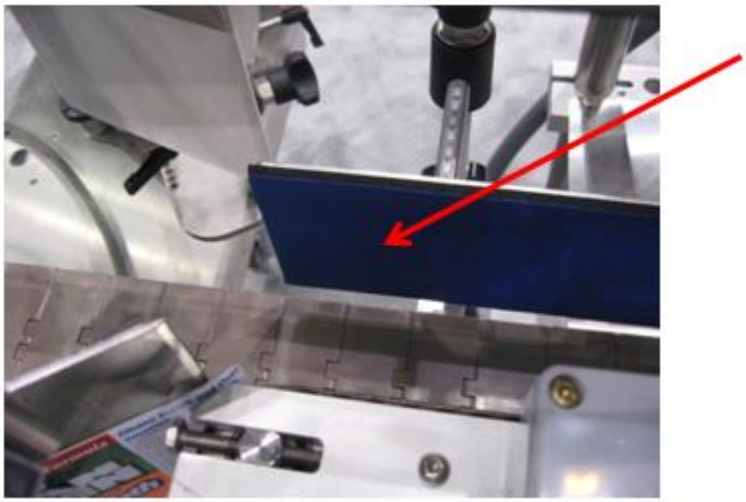
Settings:

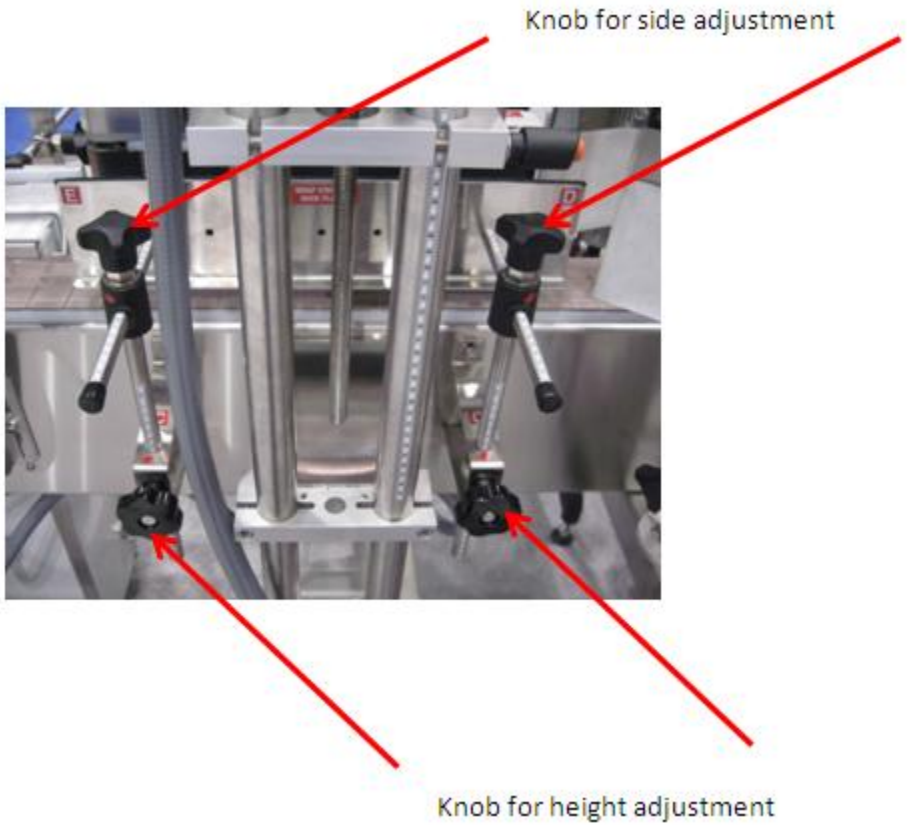
The wrap station has its enable/disable selector in the screen.



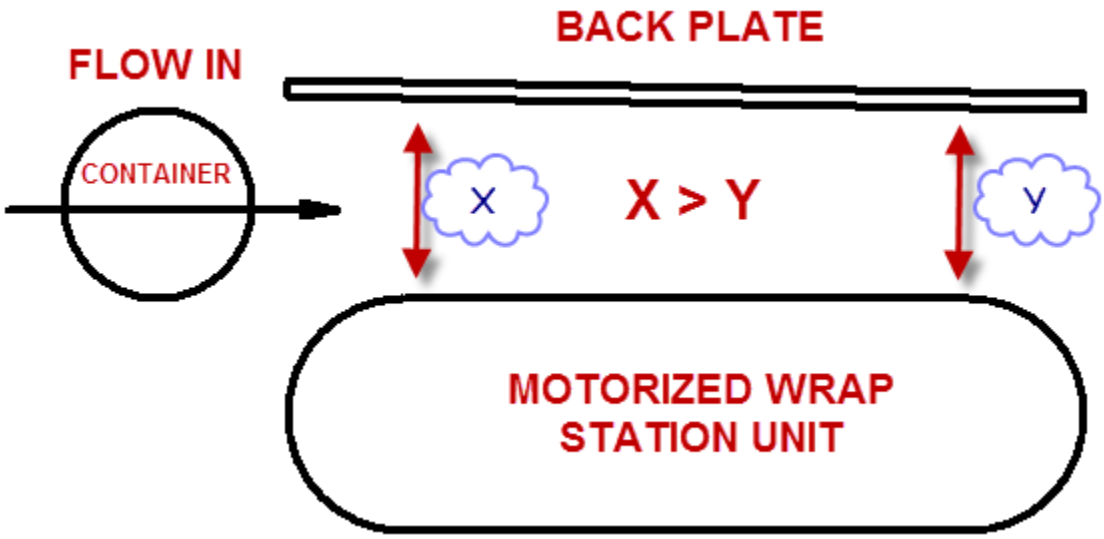
The spacing between the belt and the adjustment plate can be modified. To move the belt position, press down on the handle's orange knob to un-lock and slightly loosen the position adjustment handle, slide into position and re-tighten the knob handle. For the main plate adjustment, unscrew the bottom screws, skew to desired location and then re-fasten.

The foam base on the opposite side of the wrap station allows for the container and label to be compressed together. You can adjust the amount of compression by simply using the knobs that hold the bracket to the pad.





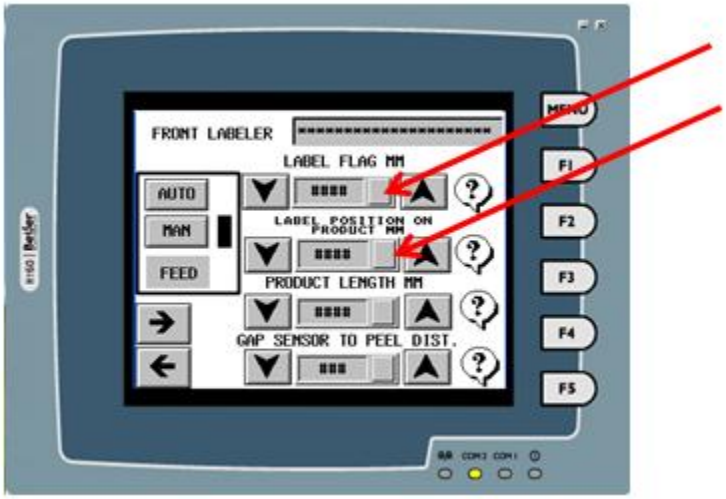
In order to facilitate the entry of the bottle into the wrap (especially if it is travelling empty) you can open the foam back plate so that it is slightly more open at the entrance and slightly closed at the exit of the wrap station (+2mm). This will avoid slight bottle stoppage which can create creases on the label.



To set the position and the label start, 2 values must be adjusted:

Label Flag: this value must be set between 10mm and 20 mm

Label position on product: this value allows for the label trigger to start with the right trigger timing, if this value is too low, the label will start too quickly and you will observe a crease at the beginning of the application. The reverse is also true, if the value is too high, the label triggering will be late and will have a tendency to fall slightly and be applied in a skewed fashion.

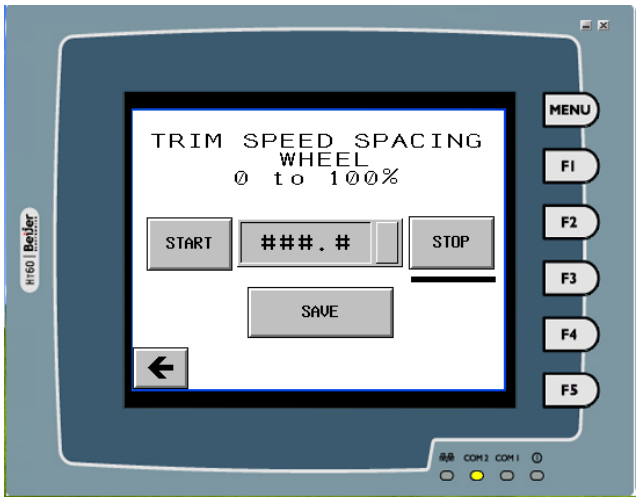


TOO LOW VALUE

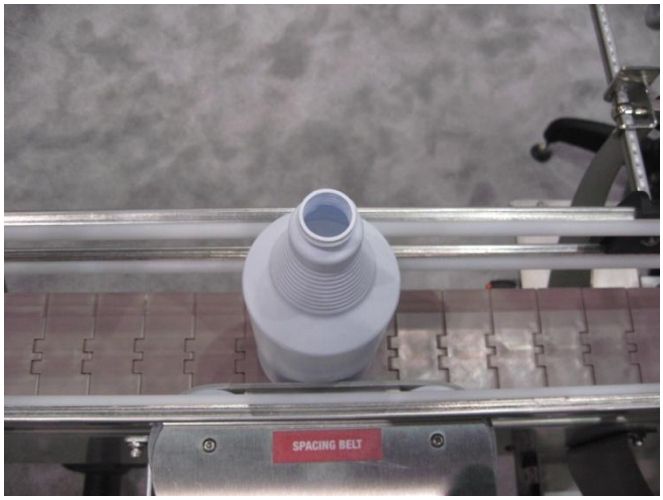
TOO HIGHT VALUE

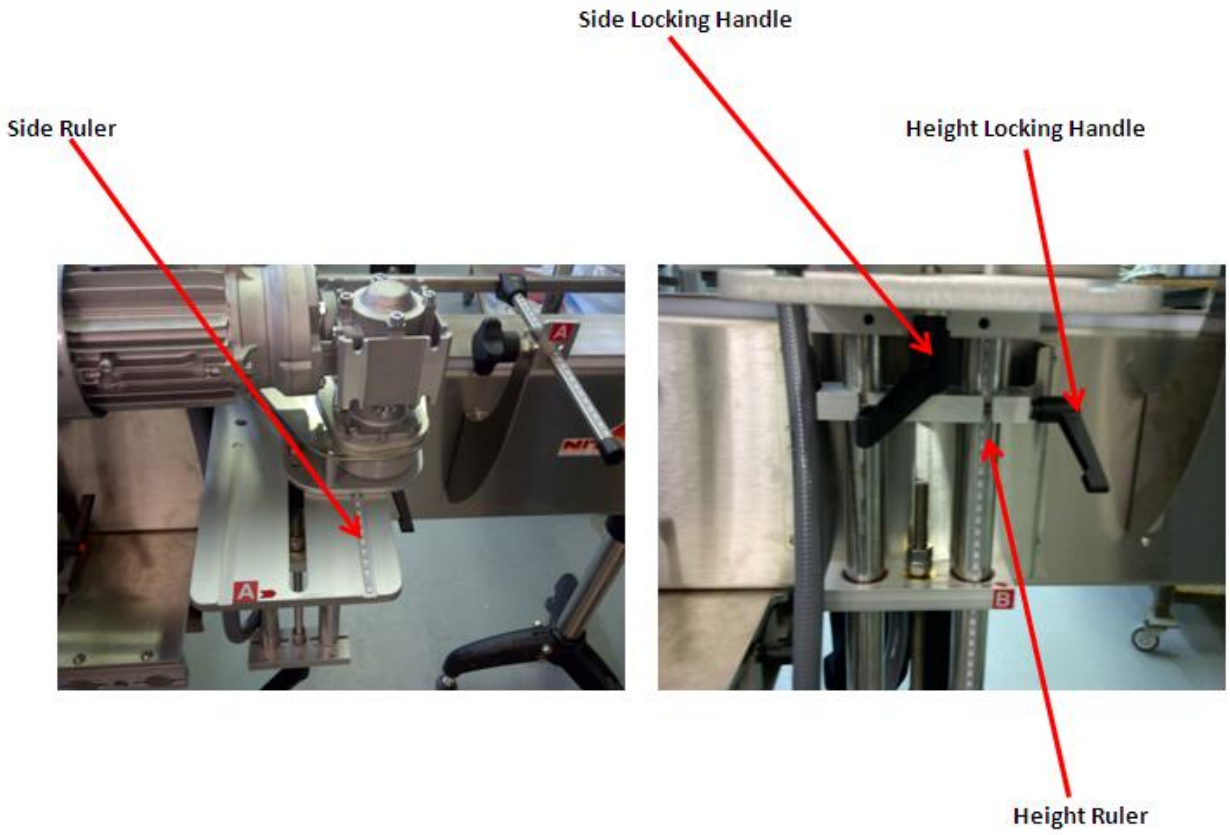
6.5 Container Spacing Wheel – Spacing Belt

The spacing wheel / Belt are an optional module that is generally placed at the entrance of the conveyor to allow adequate spacing of products as they travel towards the labeling head. The speed of the wheel / Belt will vary how much spacing is created between the products. It is controlled from the HMI and can be modified by the operator. The value is in % of the conveyor speed (ratio).



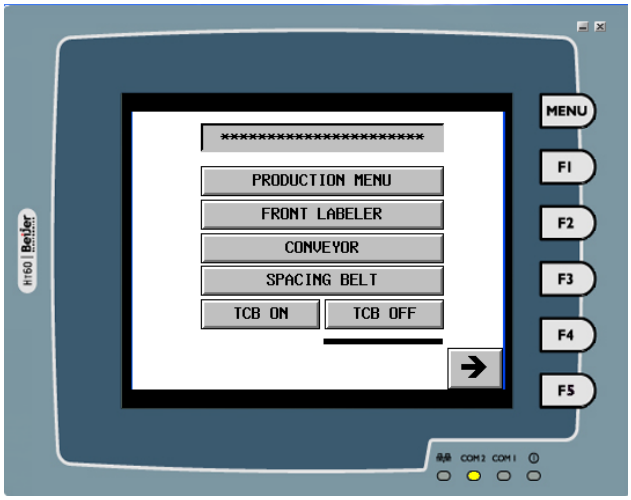
Manual adjustments of the spacing wheel/belt are performed by loosening the lock handles (2) and physically moving (side and height) the spacing wheel/belt assembly to the desired position. The adjustment is guided by gradient rulers for consistency and is identified by a letter.





6.6 Motorized Top Clamping Belt (Synchronized Support belt)

The top clamping belt module applies overhead pressure to the containers and enables the product to remain stable as the label is applied. This TCB is completely synchronized with the main conveyor. The Top Clamping Belt has its enable/disable selector in the screen.



It can be adjusted in height, simply by loosening the brake handles, and turning the overhead handle to elevate or lower the TCB. Place to desired position and fasten the lock handle. NB: The ideal adjustment is to have enough pressure to keep the container from being pulled off (when wedged). Do NOT over-squeeze the product.

In order to adjust the top clamping belt:

1) Loosen the lock handles

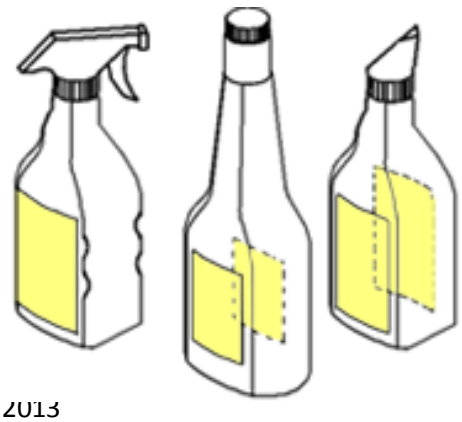
2) Turn the top handle for up or down movement as desired

3) Notice the scale ruler reading and enter it into you HMI (for recipe)

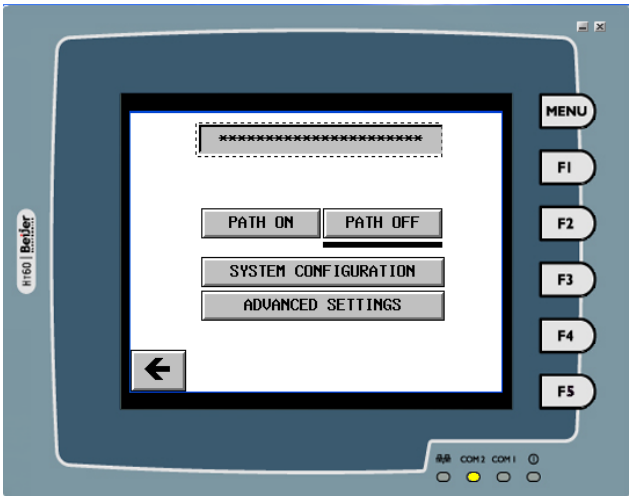
4) Tighten the lock handle

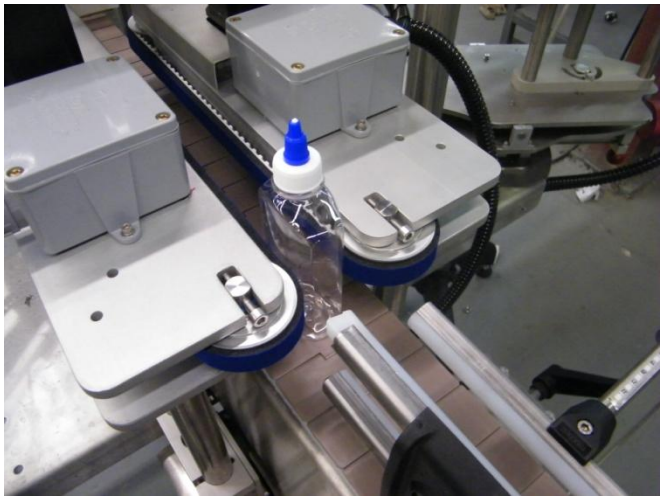
6.7 Orienting device - Pathfinder

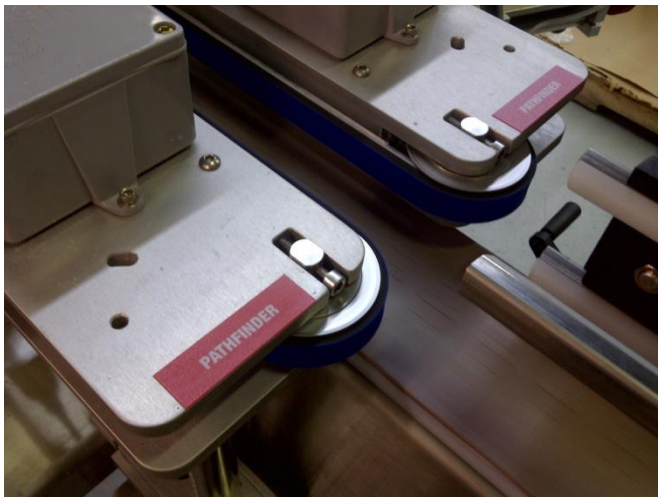
The pathfinder, generally located at the front end of the conveyor, is used to align oval or rectangular-shaped products prior to entering to the labeling process. The orienting device is composed of two belts, one on each side of the conveyor. These belts turn on a series of bearings. The orienting device is powered by a servo-motor. The orienting device will be used for parallel-lipped products (flat bottles or containers).

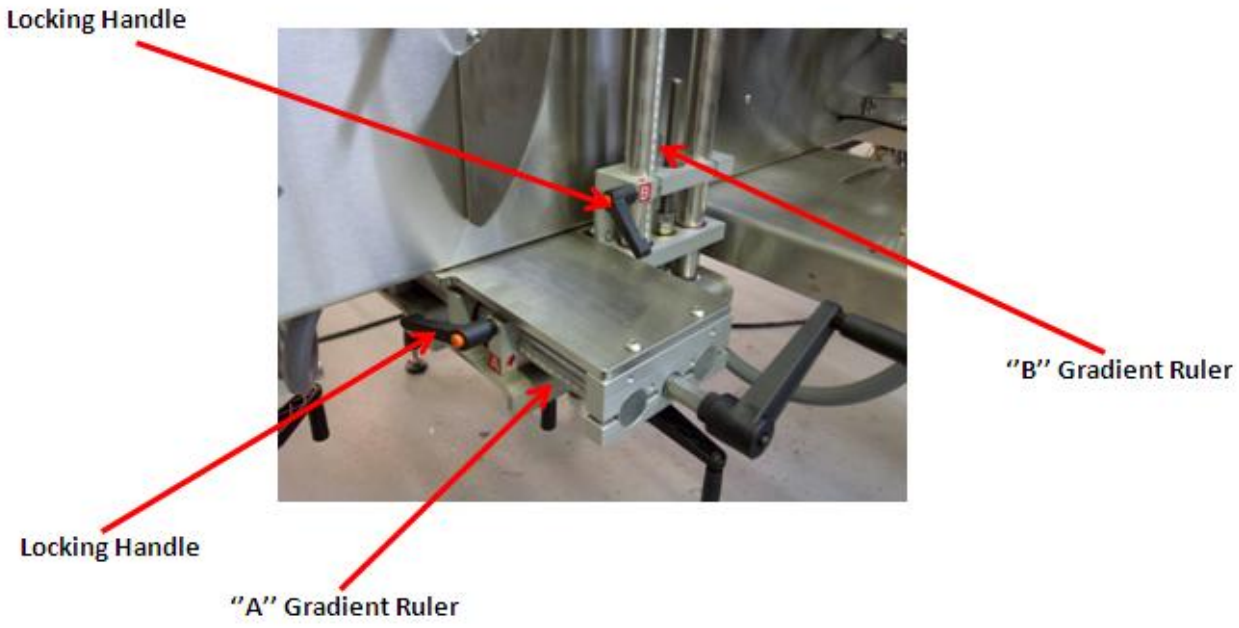


The Pathfinder has its enable/disable selector in the screen.





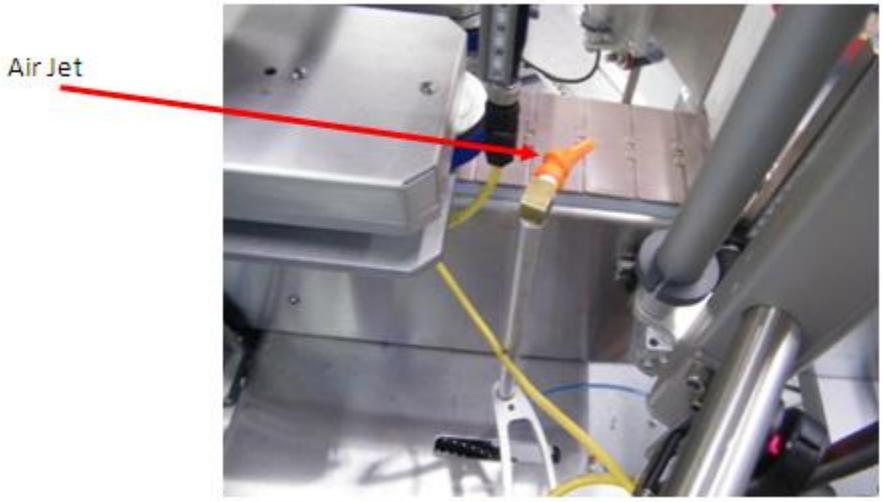




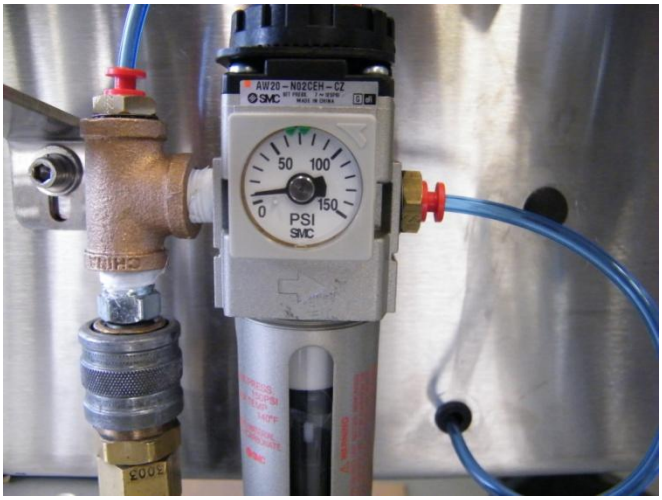
6.8 Wipe gates

The wipe gate option is a module that allows for containers to go through (as though it were saloon doors). It is placed very close to the labeling head's peel plate. Its principal duty to correctly hold the flagged label over the conveyor and releasing it when the product comes in contact with it. It allows the application of the label on the front of the containers as well as closing the label on either side creating a *tri-panel* application. It works in conjunction with the Top clamp down belt. An air jet helps to hold the label.

The gate position is determined by two adjustments (usually A & B) which correspond to the physical height, lateral adjustments and depth of the module with respects to the conveyor. These will all have reference letters which can be entered as a recipe setting in the HMI touch screen for future use.



Also an adjustment of the door force is possible by using the pressure regulator located near of the wipe gate unit. A pressure between 10 to 20 psi is enough.



6.9 Spider Tail gate applicator

This device allows for the closing of the label on the back side of an oval, square or rectangular container. It is a free turning module and works in conjunction with the Top clamping belt. It must therefore be positioning in an area under the TCB so that it can operate while the container is still being held by the TCB

The Spider module positioning is determined by adjustments (usually A, B & C) which correspond to the physical height and depth of the module with respects to the conveyor. The A setting is for the foam roller position against the product. These will all have reference letters which can be entered as a recipe setting in the HMI touch screen for future use.

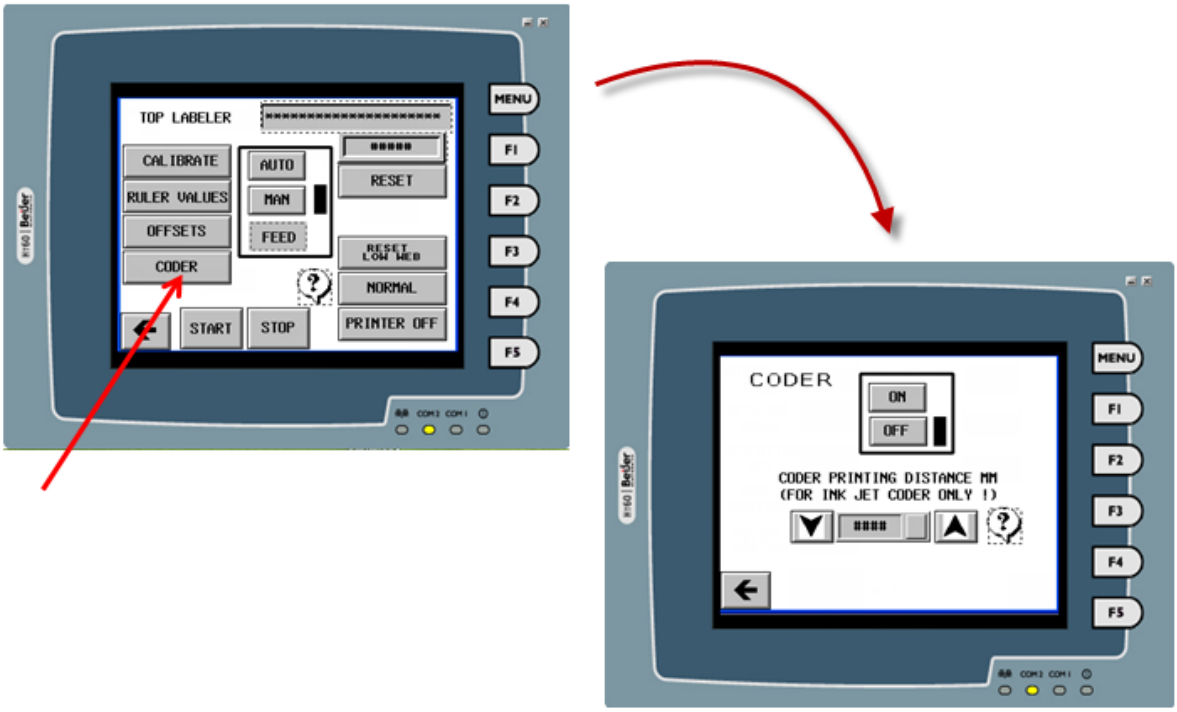
6.10 Thermal Transfer coder

This section describes the thermal transfer coder and all the related settings.

The coder is usually located between the peeler plate and the main labeling head platform. Its function is to code each label. It can be activated / deactivated through the coder HMI terminal or HMI of the machine. The coder is held with a specially designed rack mount. The coder has its own HMI programming screen.

Coder's HMI Terminal

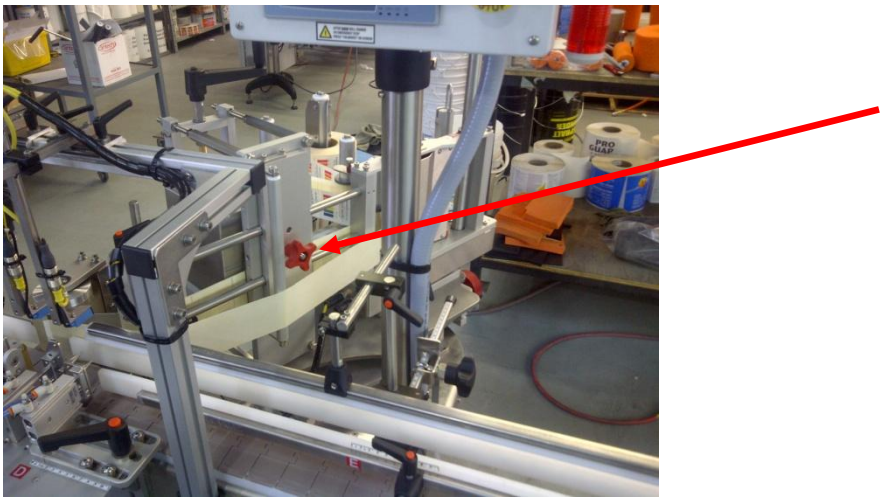
Coder itself



Screen to activate / deactivate coder

Mechanical Settings:

The Coder has position adjustments as well as operating settings. Firstly, the Coder can be moved horizontally. To move the coder on its horizontal axis, simply unlock the handle (on the back of the main support) and gently move the whole assembly (coder and rack) to the desired position. When the new position is obtained, lock the handle again. The horizontal position will determine where the code will be printed on the label.



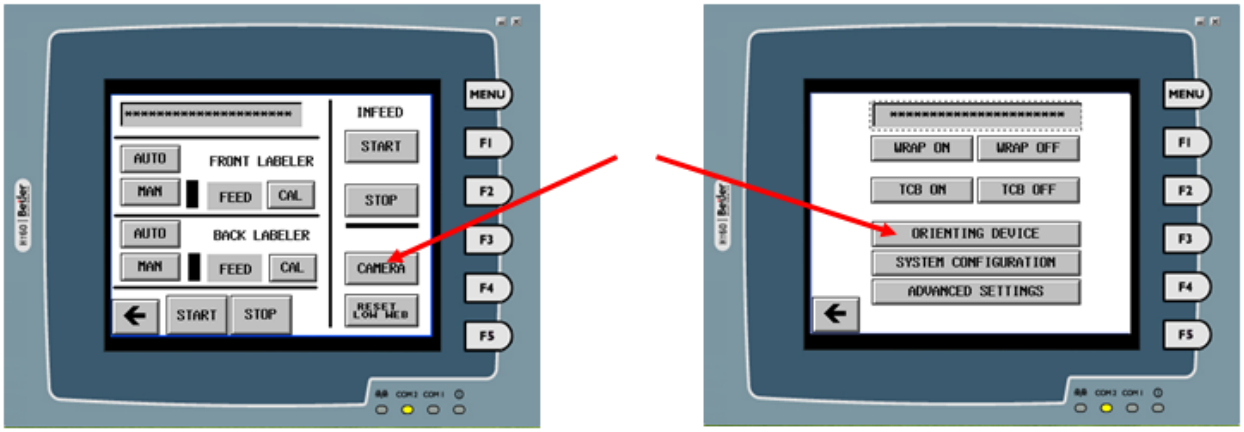
Secondly, the coder can be rotated 90 degrees on its own axis. This will be used to change the orientation of the code on the label. To change the orientation, simply loosen the rotation adjustment handle and rotate the Coder 90 degrees. When the coder reaches its new position, you will hear (and feel) a little “click”, meaning that it is well seated in its rack mount.

For more information on the coder operation refer to the manual.

6.11 Digital (Camera) Orienting device

It is important to specify that this option comes with a digital camera which also has its own touch screen controller and electrical box from which we can control all the values and settings of the camera software.

This screen on the SynerG XP system, allows for the settings pertaining to the Camera Orienting device.



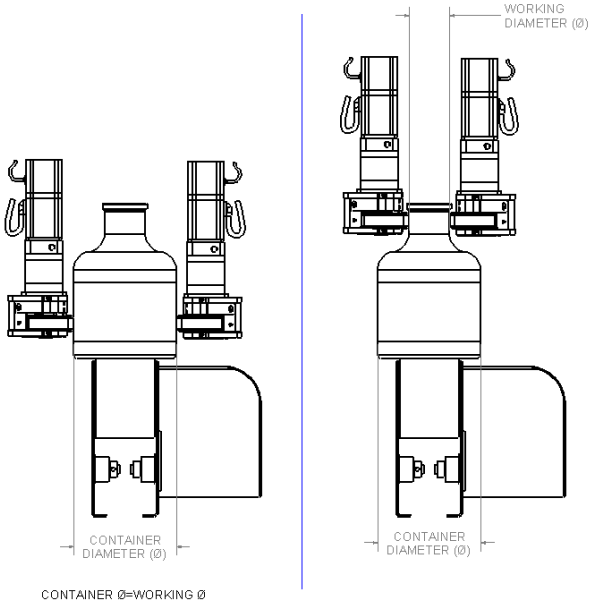
You can drive the camera and belt independently with the button on the top of the first screen.

Correction setting allows you to correct the orientation of your container as per the reference image in the system. If you would like to change the orientation of the container differently from the image in memory, enter the angle that you now require corresponding to the new orientation.

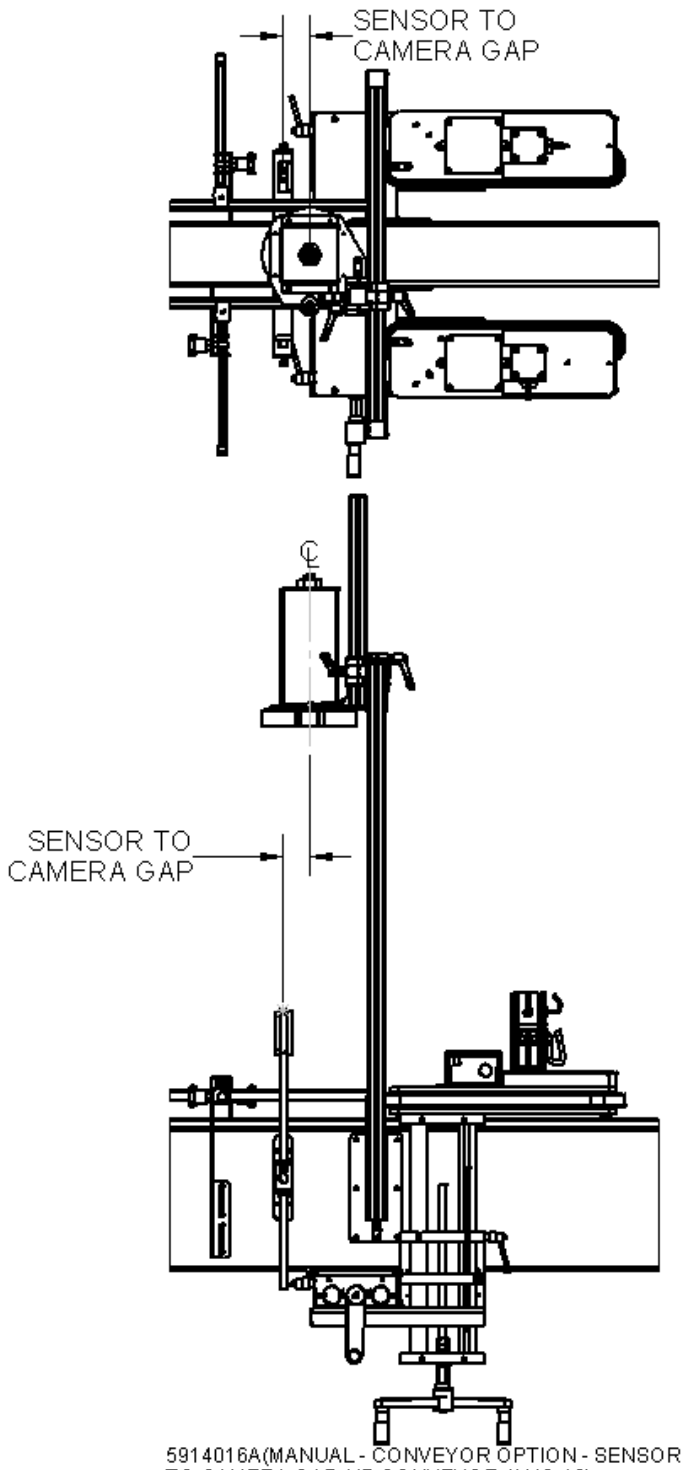
The next two points are extremely important*

The first value to be entered is the **linear dimension** of the container (base of container, towards the sensor).

The second is the **diameter** where the orientation device belts rotate. In fact it may be useful to set up the orientation of the container using a height that DOES NOT corresponds to the maximum diameter. See illustration for more information.



DIST Camera corresponds to the distance between the camera and the product sensor (this distance is entered in MM's). Use the schematic below as a reference to guide you.



5914016A(MANUAL - CONVEYOR OPTION - SENSOR TO CAMERA GAP, XP CONVEYOR (AUG 12)

The **DIST Belt** is the distance between the beginnings of the belt that orients the product and the product sensor. This distance is set in MM's.

The second is necessary to determine the speed and the work time of the orientation belts. It is possible to change this value

Orienting Device setting:

The Pathfinder is activated /deactivated with the corresponding On/Off selector located on the HMI screen (control panel). The speed of the orienting device is automatically synchronized to the conveyor but has a built-in ratio. It is completely synchronized with the main conveyor.

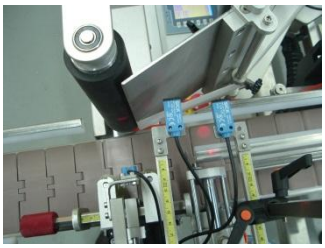
The width of the orienting device can be changed by turning the crank located below the orienting device. The same is true for the INWARD and OUTWARD positioning. This will move the two belts inward or outward.

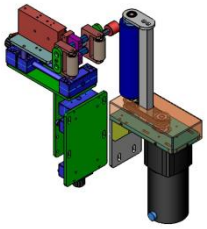
For cylindrical products that do not require alignment, simply retract the orienting device by moving them away from the conveyor. The possible adjustments will have corresponding letters. These values on the gradient scales serve as reference points to be entered as recipes in the HMI touch screen.

The manual height adjustment is done through using the two handles on the operator side of the component. Use the rulers to obtain the desired positioning. The values should be on the HMI screen (in the case of a new set up, adjust the device and then enter it in the HMI).

6.12 Spin in Place

This device (model may vary according to bottle) is operated with a mechanical sensor activation. When the product is detected, a signal is sent to activate the air cylinder, bring forward the 2 rollers in order to meet the bottle. This applies pressure to the product as well as the center roll (on opposite side) allowing for a rotation on the product to take place. The peel plate must be brought as close to the wrap station as possible. (Maximum ¼ inch away). Make sure the air hose is connected to a compressor or house air. 80PSI

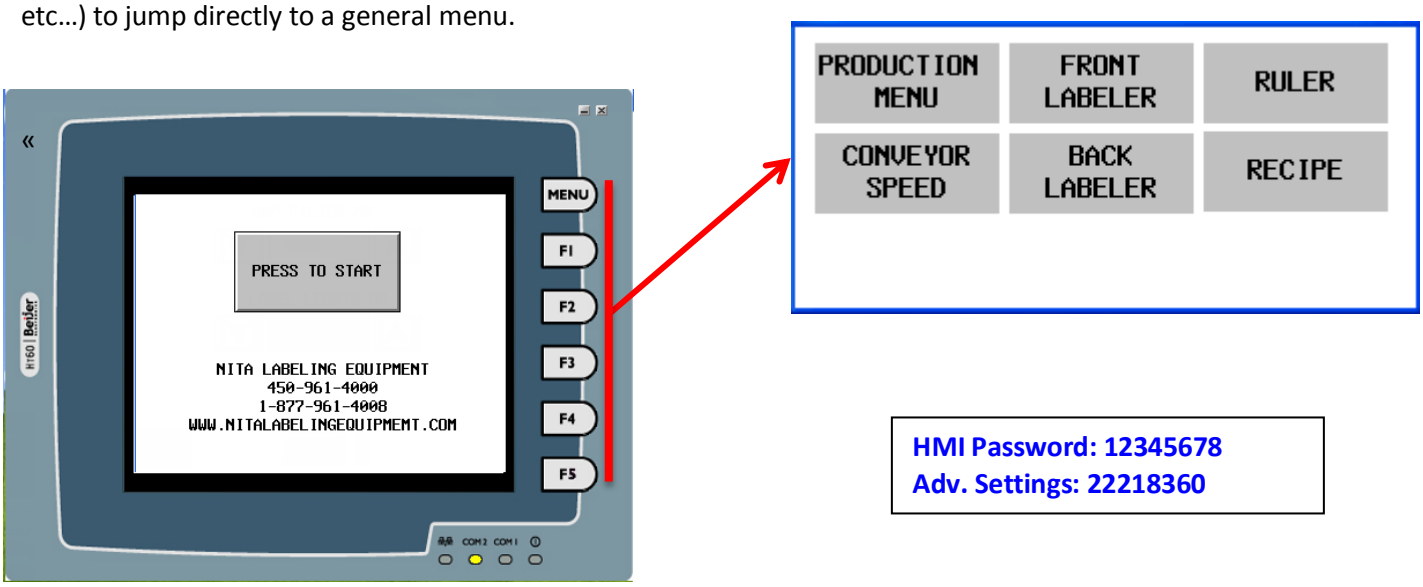




All possible adjustments have scales and corresponding letters so that their values may be entered as a recipe in the HMI on the respective screen.

7 HMI – Getting to know the HMI touch screen – Operator interface

The HMI operator controller is a touch screen module as shown below. You can touch the screen to help you navigate from one screen to the next or you can use the HOT keys on the side of the screen (F1, F2 etc…) to jump directly to a general menu.



The *initial password* for the operator to begin using the HMI immediately is 12345678**.**

It will be a good idea to change it!

R E A D C A R E F U L Y

All settings and operations are done through the HMI- therefore moving the GAP sensor or the product sensor is a thing of the past. **(IMPORTANT TO NEVER… physically move the sensors!)**

The HMI is a touch screen interface that allows you to…

- Control the length of label that slides out (called flagging)
- Digitally control the GAP sensor positioning without physically moving the sensor at all
- Digitally control the product sensor positioning, product detection is done without physically moving the sensor
- Get a clear indication (reference guide or recipe) of what the settings on the gradient rulers should be for maximum output for each pre-programmed sizes of the product.
- Assign a “set-up” manager to change the default settings using a password.
- Get information pertaining to alarms (stoppage/ errors & why)

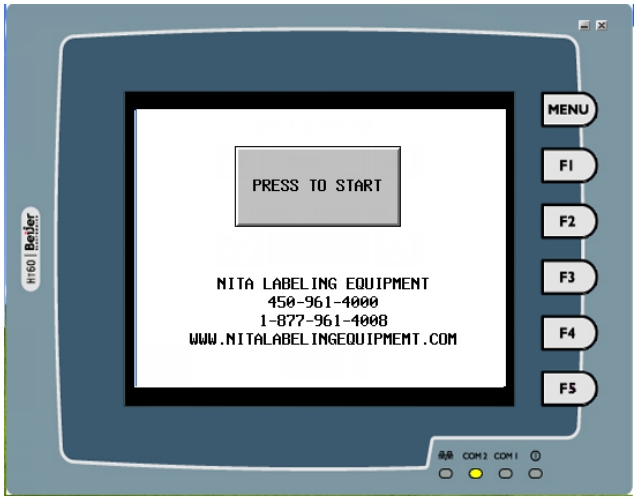
QUESTION MARK ON THE SCREEN…

The **question mark** icons lead to a 'help' screen which provides a brief explanation or tips on the adjustment method of the specific setting. This helps to minimize the time taken to make adjustments.

7.1 Start-up screen

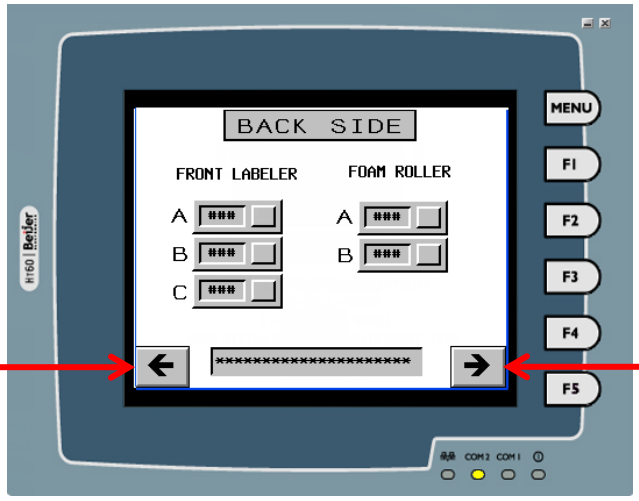
The system will turn ON when you turn the main power switch clockwise. (BIG, black handle or RED dial-like knob located on the front of the electrical box).

The opening screen (Nita's coordinates & logo) will appear. Touch the 'Press to start' key to begin.



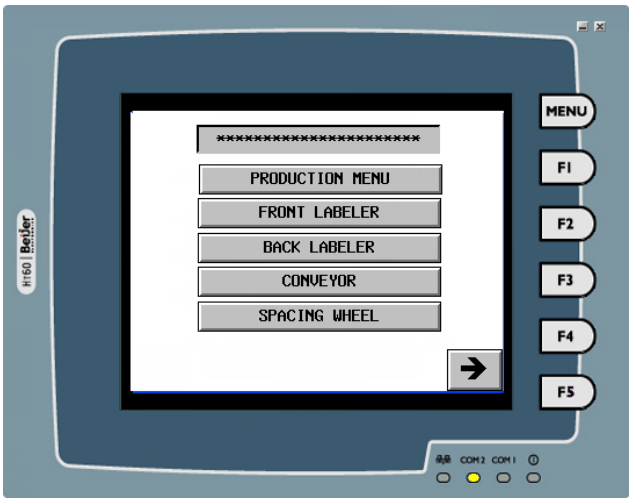
General info on how to proceed

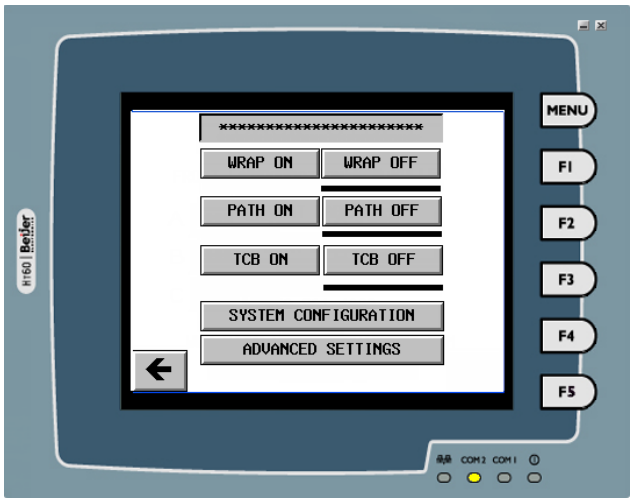
The different functions on all the screens are activated by simple touch of the keys on the screen. Each **screen has these keys. Press either to navigate from screen to screen**



7.2 Main screen

After touching “PRESS TO START”, you will obtain the following main screen. From here, you will be able to navigate throughout all the screens to see and modify the pre-programmed settings.





At the top center, is a shaded key which always indicates the container in operation. It is possible to change this recipe by touching this key. Upon touching it, you will be brought to the appropriate screen to do so.

This key also allows you to reach the save/modify screen to either choose a new product or create one and save it. (See section - Save screen).

At the center of the main screen, you will find main component keys that allow you to control the settings/ parameters of the equipment’s main components.

For example, press the **FRONT LABELER** key, a new screen will appear (see HMI section). That will allow you to access the said labeller settings.

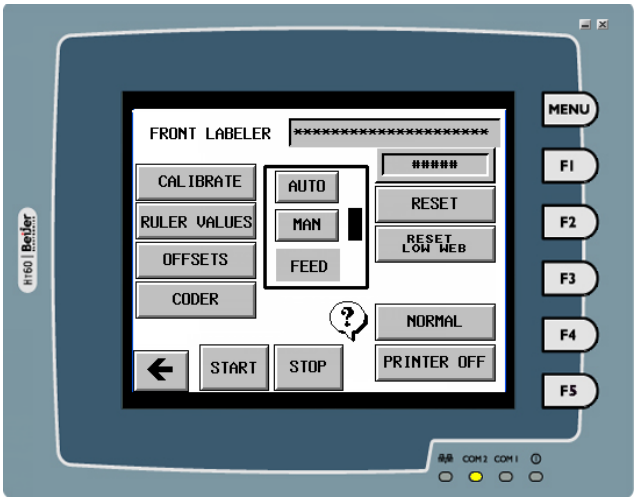
The **CONVEYOR** icon, when pressed, will bring allow you to change the conveyor speed. (It is important to note that the conveyor speed is synchronized to all other motorized components. The faster the conveyor, the faster all motorised items will run, including the labellers see details on the page pertaining to the conveyor screen.

The **options** icon allows you to navigate to other options that may have been required to complete your system. Options can be: Pneumatic cylinders, closing stations, wrap station etc.

The button “**SYSTEM CONFIGURATION**” allows you to adjust time, language, screen brightness, contrast.

The button “**ADVANCED SETTING**” allows you to internal parameters of the system (like “Password”) and must only be changed or modified by qualified technicians. These are password protected.

7.3 Front Labeler - Screen



This screen is used to see and/ or change the settings of the front labeler.

The right hand corner key indicates the **product currently in use**. You can press on it to select a different product. Also is used to save and or modify the settings according to the product you are working on (see section “Creating/Saving recipe screen”.

A **counter** indicating the number of products labeled

Reset Counter: initialises the counter to zero

Reset low web: resets the system after obtaining a low web signal alarm.

NORMAL – 3 PANELS is used to switch from a normal mode to 3 Panel (which allows for the label to start feeding, stop and start feeding the same label again). This is used for long labels that need to be labeled on the front of a product. Generally, these labels rest on wipe gates, hence, they feed, wait and then release when the product goes through the wipe gates.

PRINTER ON – PRINTER OFF: is used to activate the print start. You need to have a tabletop printer in loose loop with a loop sensor (see Printer in loose loop section).

When the **CALIBRATE** key is pushed, (it simply keeps all the labels in memory from the sensor to the peel plate’s edge) all labels between the gap sensor and the peel plate’s edge will be fed. The system is now ready to begin labeling as long as the physical product set up has been made.

There is however an exception; When the label’s shape has a specific form, (non rectangular) and/or round. This exception dictates that if the label is of an odd shape or round, You MUST (after pressing calibrate) correct the label positioning using the GAP OFFSET parameter (under the OFFSETS key) See this explanation in (OFFSET) Setting for label application - screen .

The **RULER VALUES** key shows the optimum values given during set-up of a specific product. These values refer to the proper positioning of physical rulers on the system bearing the corresponding letters. Let these guide you for the setup of each product.

When entering a brand new product and the ruler settings need to vary refer to section: “Ruler values screen”.

The **OFFSET** key is used to see the pre-programmed distance for the labeling GAP and PRODUCT. For full details on this screen (see section OFFSET SECTION)

The button “**CODER**” allows you to adjust some coding parameter (see CODER section).

The **STOP/START** keys have the same use as already described.

Press **MAN** or **AUTO** switch from one mode to the next (Auto gets the trigger signal from the sensor to apply a label, while manual requires that you press **FEED** to obtain a label…seen here in manual mode).

The **manual mode** is handy while adjusting the settings of the labeler during physical changes where you do not want to waste the labels.

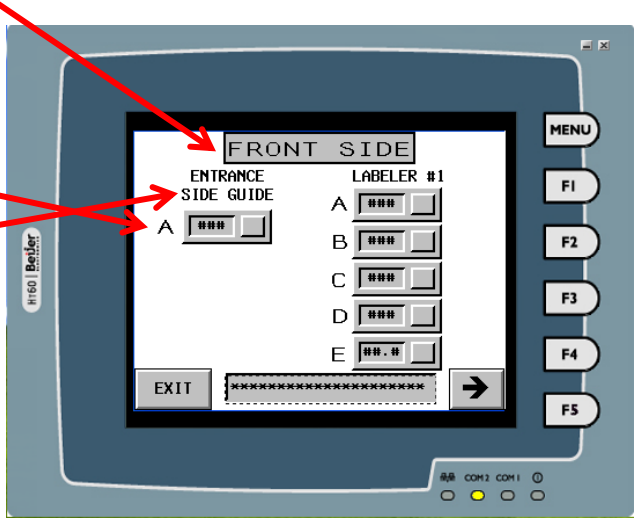
7.4 Ruler values screen

These screens contains the settings or recipes (in millimetres) pertaining to the manual adjustments to be performed by the user for each of the products in memory (as well as the new ones to be added). Instead of having a spread sheet, you simply enter the information here, save it and recall it whenever required.

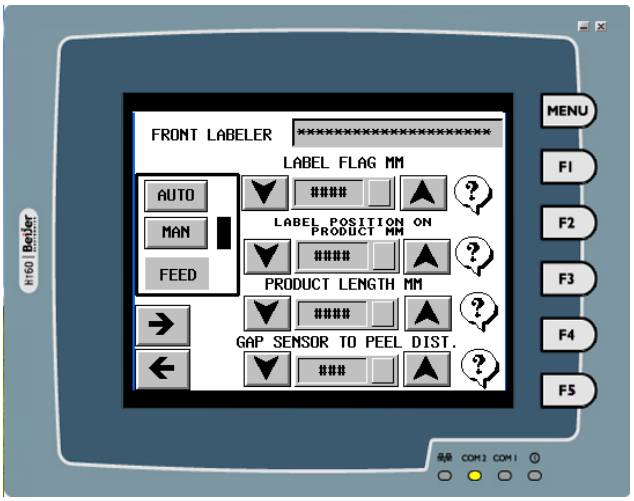
The system contains many screens that are divided into sections such as Front labeler, Back labeler, Entrance guides, etc… Each of the sections contains one or many corresponding letter positions and reflects a ruler value (on the scale) for your set ups.

These screens help to reduce set up time required for adjustments or changeovers. To change any of these settings, just click on the square at the right of the value to be changed. To save the new settings, follow the saving procedures explained in section: “Save screen”.

Front Side = HMI console side



7.5 Offset Setting for label application - Normal Mode



Each labeling head has its own screen and corresponding settings. Top right hand icon shows the product in use... Note that this key has the same purpose as the **recipe** key (see details further below).

Most of the settings seen here have been factory entered when your available products were tested. It is possible however that the results you are trying to achieve are different than the ones entered.

You can change / modify these anytime. **Here's how…**

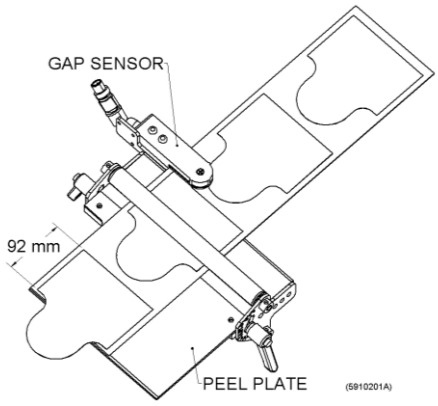
Firstly, slow the conveyor down significantly to be able to properly identify requirements (there is no need to do this at regular speed). Since your system is completely synchronized, you WILL obtain the same results when the speed is increased to its production level.

Now that the speed is reduced, touch the AUTO icon to activate the manual mode. You will notice that a FEED key is now visible. This FEED button will allow you to feed the labels manually as desired.

7.5.1 Label flag (normal mode)

The part that surpasses the peel plate is called the flag. The flag allows for label positioning. In Normal mode, this value (label flag) should be equal to Zero as long as the label has a straight edge (square or rectangle). IF not (round and other shape labels), we must add a value to the parameter gap sensor to peel distance and this value will correspond to the distance between the peel plate's tip and the edge of the next label (After having pressed Calibrate). *Values are in millimetres.*

On the following example, we will need to enter 92 as the ideal offset. Once this is done, you will need to save this new setting for the appropriate product name to always obtain the proper calibration when recalled from memory.



Now that the flag has been set, it is important to set its position on the product. Use the **label position on product (normal mode)** setting.

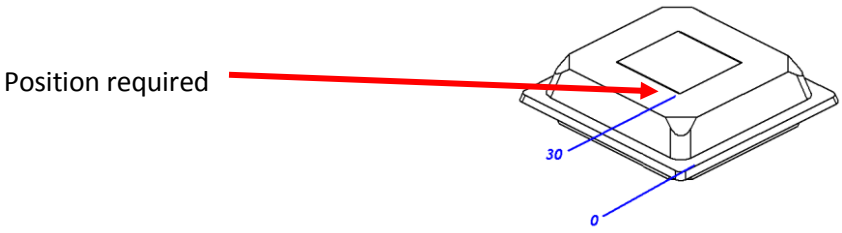
7.5.2 Label position on product

In order to properly place the label exactly where you need it on the product, all you need to do is, enter the right **label position on product** value.

The value to be entered (in MMs) is determined as follows…

It is the length where you would like for the label to begin in accordance to the beginning of the product. For example, you would like for the label to begin 30mm from the beginning of your product's edge then simply enter 30 as a value. The label will be positioned as the illustration shows below.

Position of label from edge of product



You can gradually increase or decrease the value by touching the corresponding arrows on either side of the value.

To save the changes to the settings, the user (if has proper password and authorizations) must save these new entries by touching the shadowed rectangle on the top of the screen. (You will then be navigated to the recipe save screen.)

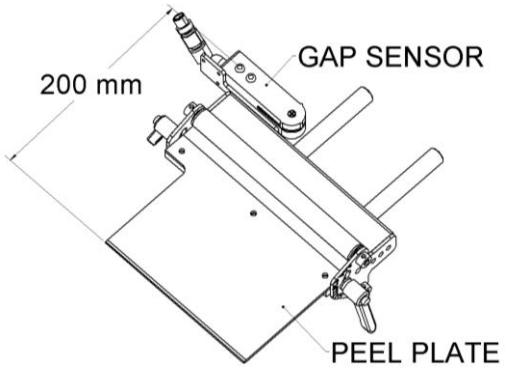
7.5.3 Product length (normal mode)

This third setting has no use for the normal mode. It will not affect any changes no matter which value is set

7.5.4 Gap sensor to peel plate (normal mode)

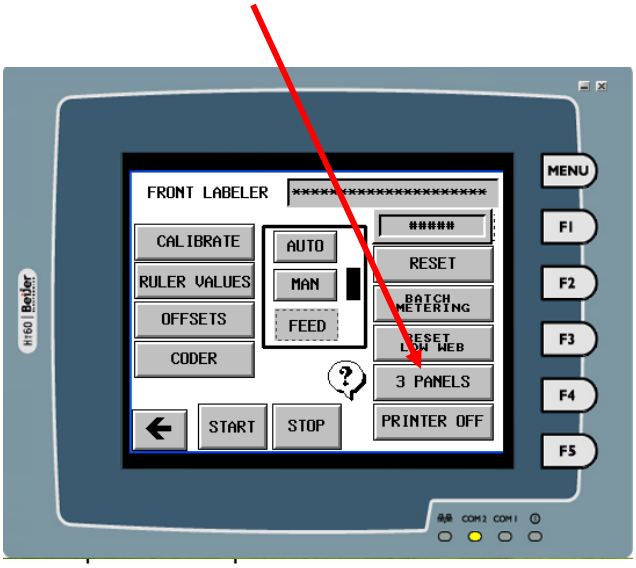
Distance Gap to peel plate

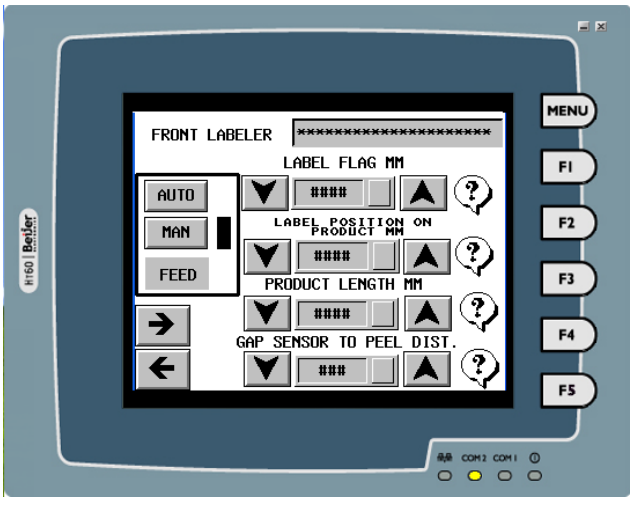
This **c**orresponds to the distance between the label GAP Sensor and the peel plate's edge. On the drawing below we can clearly see that the distance is 200mm, therefore the value to be entered should be 200 The distance value may change if the angle of the peel plate has been moved, in this case you can compensate on a case by case or re-save with the new values.



NOTE: This value may change from one application type to the next (if the peel plate angle has changed, so will the distance) and therefore must be saved for each recipe

7.6 Offset Setting for label application – 3 Panels Mode





7.6.1 Label flag (Tri-panel mode)

This setting should be set for any value above Zero.

In tri-panel mode

This Gap offset value should be entered according to how much flag you would like on the label as it hangs beyond the peel plate's edge waiting for the second signal to apply. Simply determine the length (in MM) and enter this value or use the small arrows to add or lessen the value. To flag further through the conveyor, augment the value. Be careful not to enter a value that is greater than the overall length of the entire label. If you overflag the label, a LABEL OUT error will be seen.

LABEL OUT ERROR, when you get this error, simply press reset or refer to LABEL OUT section of this manual.

7.6.2 Label position on product (Tri-panel mode)

Now that the flag has been set, it is important to set the length of the label according to its position on the product. Use the **label position on product setting**.

In tri-panel, this setting must always be at ZERO.

7.6.3 Product Length (Tri-panel mode)

The third setting corresponds to the product length itself. This is only used when working in tri-panel mode. (Disregard this setting for NORMAL MODE) For a round product this value should correspond to its diameter. This value allows for the container to clear the path of the product sensor before flagging the next. You can modify or enter a value of the product length by using the arrows or by pressing the value and entering a new one on the touch screen pop-up keypad (Which is the total length of the product).

To save the changes to the settings, the user (if has proper password and authorizations) must save these new entries by touching the shadowed rectangle on the top of the screen (You will then be navigated to the recipe save screen).

7.6.4 Gap sensor to peel plate (Tri-panel mode)

This setting has the same adjustability in both modes

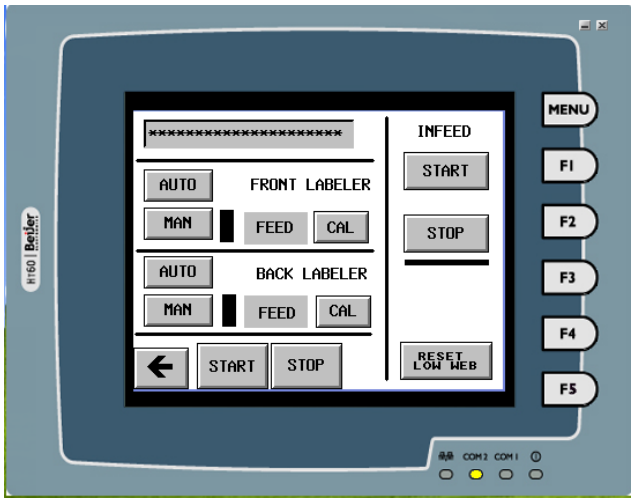
BACK labeler screen

This screen has the same keys as the screen Front labeler.

It can be used to see and/or modify the settings of the Back labeler.

7.7 Production menu screen

Once all the settings have been done and saved for the recipe(s). Use this production menu to operate the system. Depending on the system used, you may have either of the following two screens. This screen has all the important elements required for any production operation.



Top icon shows the recipe which is being used. It can be changed simply by pressing the icon which will lead you to a toggle menu for a new recipe selection. See explanation further down in manual…

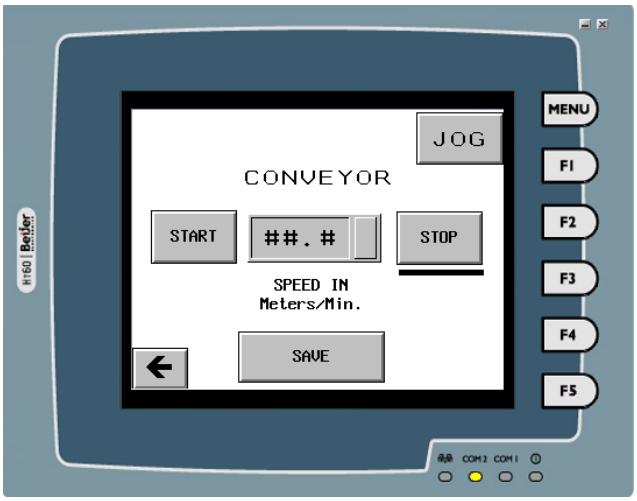
Choose from Manual or Automatic modes.

Choose to make adjustments to the labeling head settings by pressing on the Front labeler or Back labeler icons respectively.

As you can see all the important operations can be reached and controlled from this production menu screen.

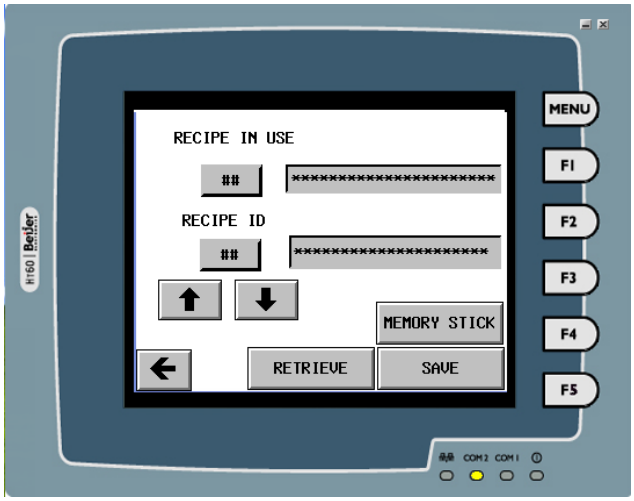
7.8 Conveyor screen

This screen allows you to start and stop the conveyor, change the speed settings as well as save the new variations for each of the products you have in the HMI memory. Simply touch the value and enter a new one with the pop-up numeric keypad and press save or exit out by using the left arrow. The jog button allows to start-stop the conveyor belt to do the setup.



7.9 Recipe screen

This is the screen where all you products, scales, speeds and values are collected and saved as a recipe for each of your jobs (or products) called recipes. A recipe holds the name of the container, the ruler values for all gradient scales, the speeds you require and all pertinent information specific to that product.



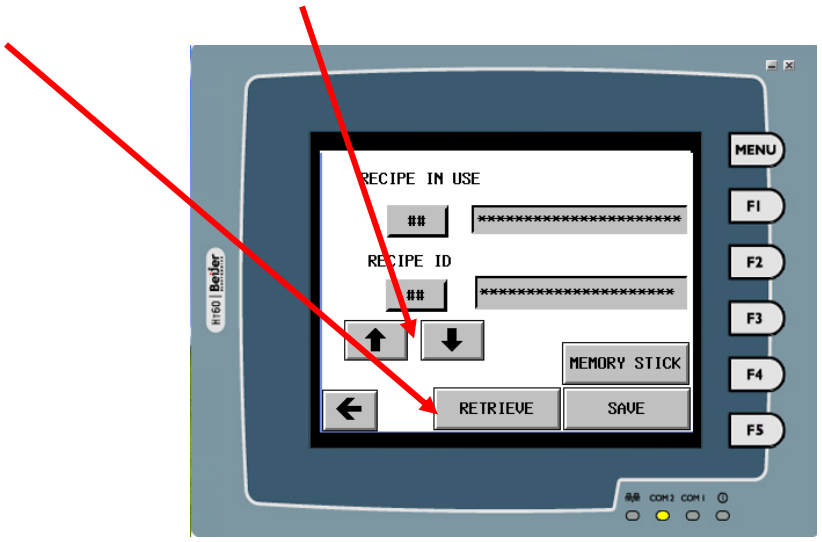
As we have mentioned, you can change, modify and remove any recipe you desire. It is also possible to upload them to a memory stick for backup and future downloads into the system.

You can scroll the recipes using the arrows to go to an empty recipe slot or simply choose one that is active. Use the arrows to accomplish this.

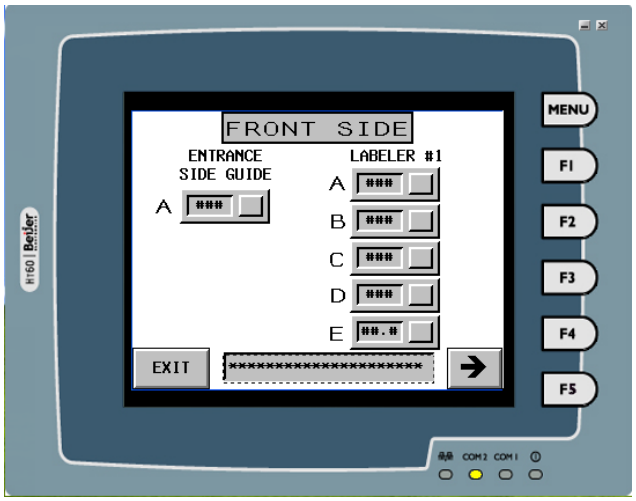
7.9.1 Load an existing recipe:

1) Use the scroll up arrow or down to locate the desired recipe

2) Press "**RETRIEVE"** to load the recipe you desire with all its pre-sets. This will give you the physical values to change your guides, heights and other adjustments…simply follow the recipe. You do not need to enter the speeds and other settings; they have already been set for existing recipes.



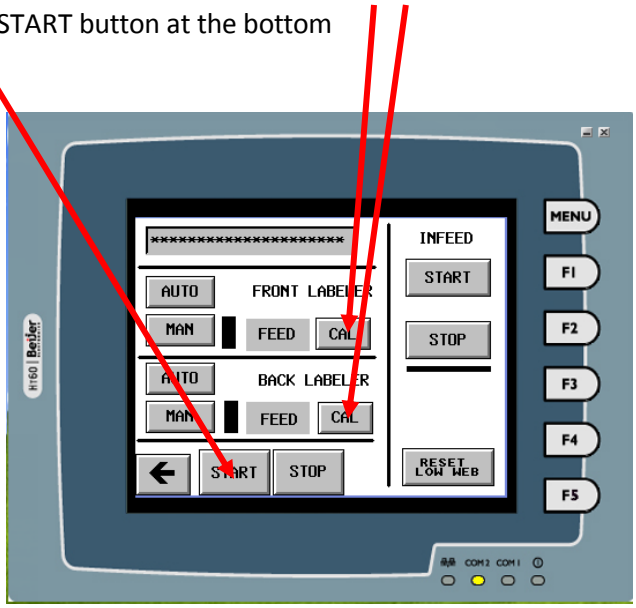
3) Adjust the labelers and side guides according to the settings displayed.



4) Load labels and calibrate the gap sensor on the labeler. (see manual for details)

5) Perform CALIBRATE for labelers being used while conveyor is stopped.

6) Press the START button at the bottom



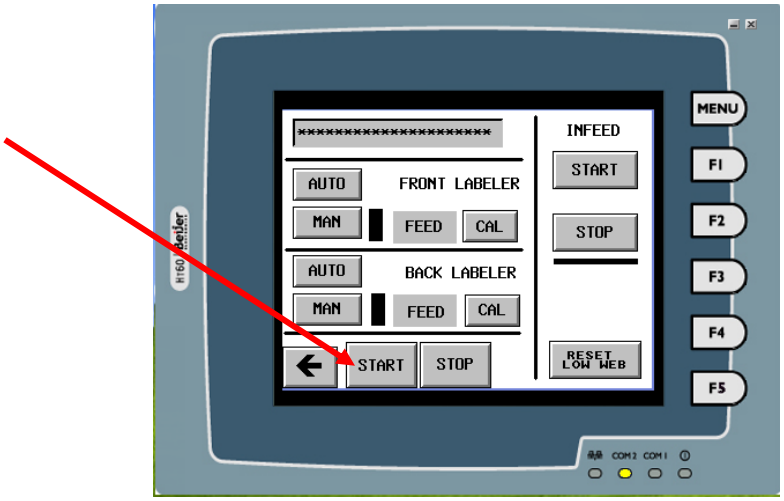
The operator can also change settings here but unless someone with a password confirms those settings, they will TAKE EFFECT BUT NOT BE SAVED FOR NEXT TIME USUAGE.

7.9.2 Creating/Saving a new recipe

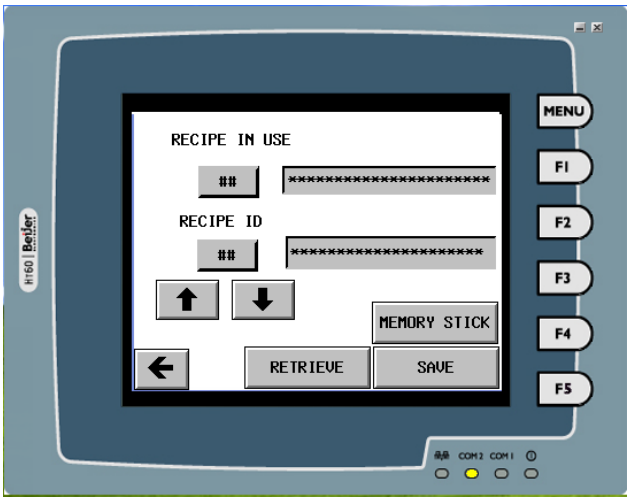
To create a brand new product recipe:

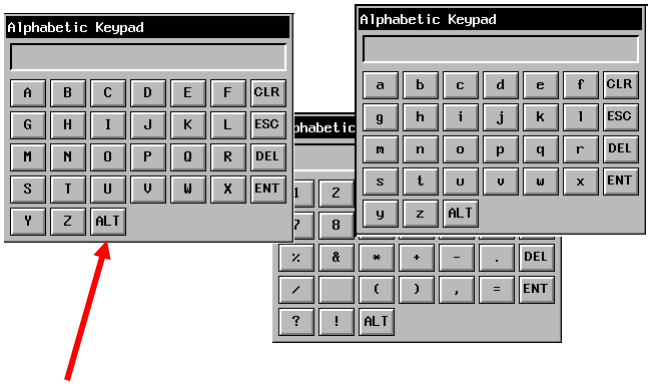
1. Adjust all of the mechanical adjustments (Side Guide, Labelers, TCB…) according to the product.
2. Enter an approximate value for LABEL FLAG, LABEL POSITION ON PRODUCT etc…
3. Enter those numbers in the ruler values.

4. Press START and place a product on the belt, make sure that everything runs like you want



5. Use the scroll Arrow Up or Down to locate a blank Recipe





ALT key to change keypads

6. Press the Description Box beside the Recipe ID to enter a Recipe Name (A keypad will allow you to enter desired name or item)
7. Press Save (password req'd)

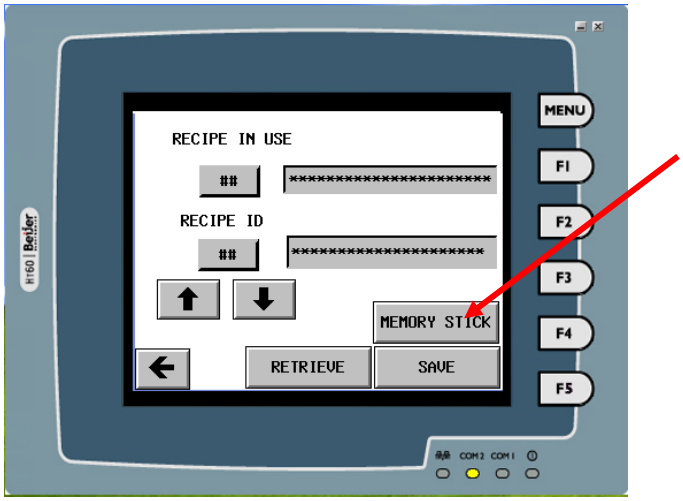
7.9.3 Memory Stick

The memory stick icon allows you to download or upload the recipe to/from a USB memory stick.

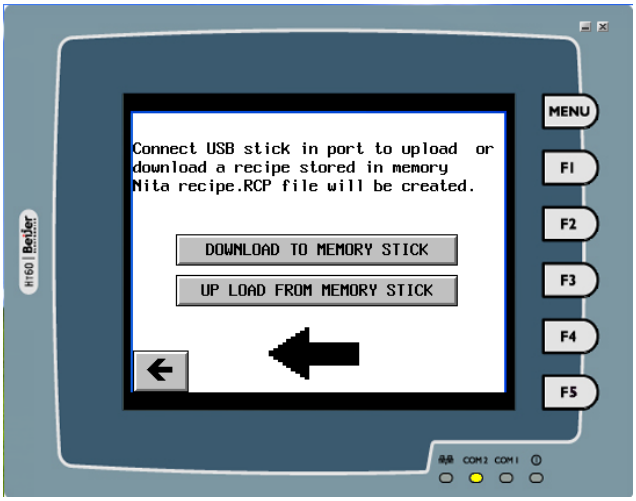
Follow instructions onscreen to perform these operations.

1) Insert USB stick in USB Key port under the HMI control panel

2) Press MEMORY STICK key



3) Now you have two choices:



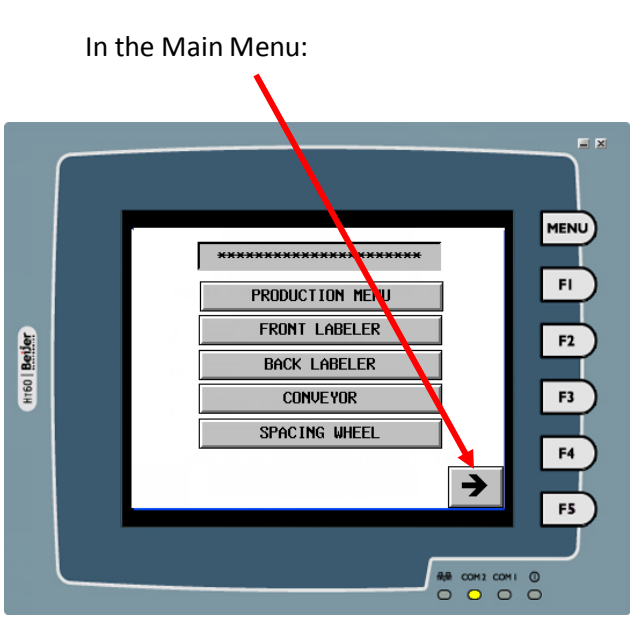
DOWNLOAD TO MEMORY STICK: Take the entire recipe (machine setting) and save on the memory stick

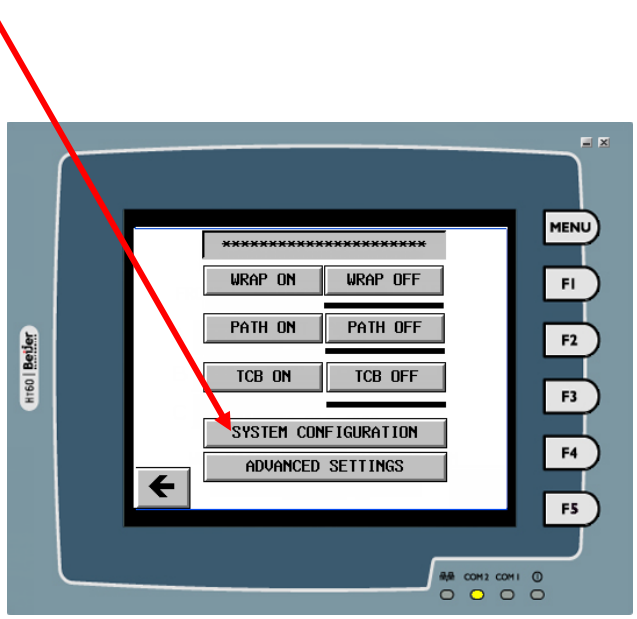
UPLOAD TO MEMORY STICK: Take all recipes on the stick and load in the machine memory

Note: The recipes cannot be uploaded or downloaded individually. The whole recipe book will be transferred each time.

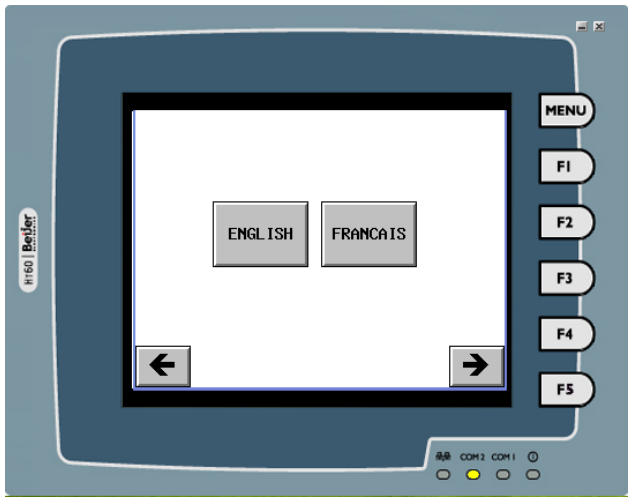
7.10 System configuration

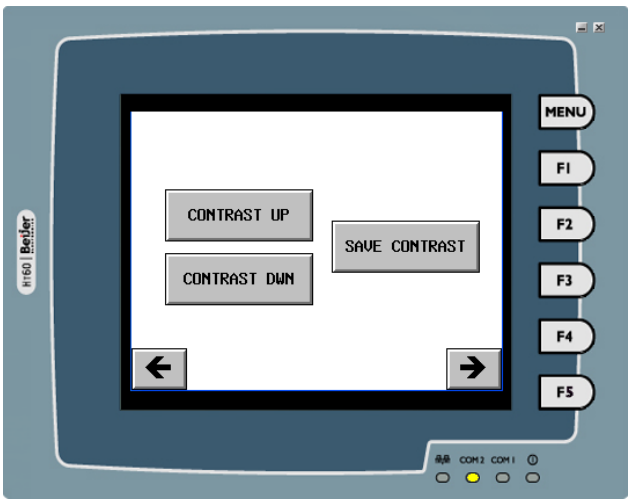
In the Main Menu:





You can access the settings (general settings for, screen contrast, languages, etc...)



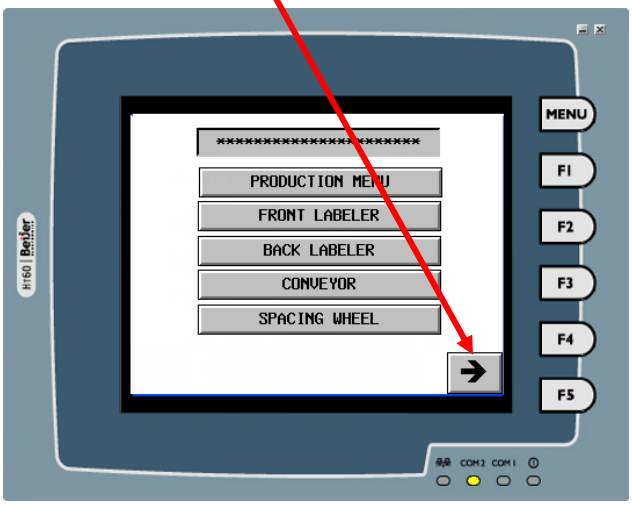


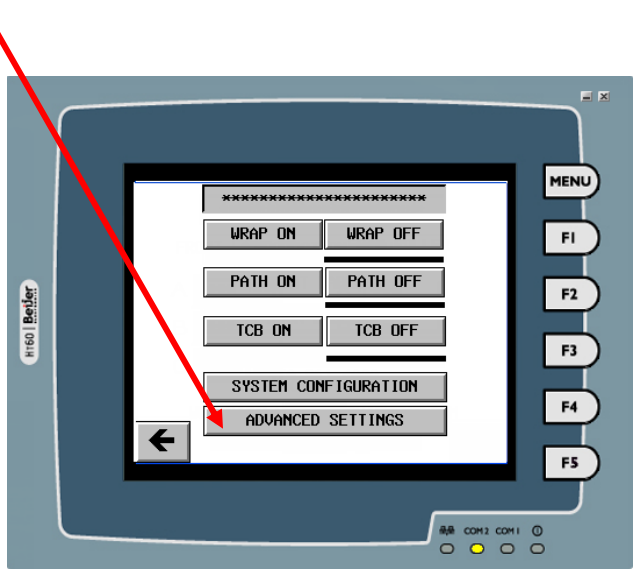
7.11 Advanced setting screens

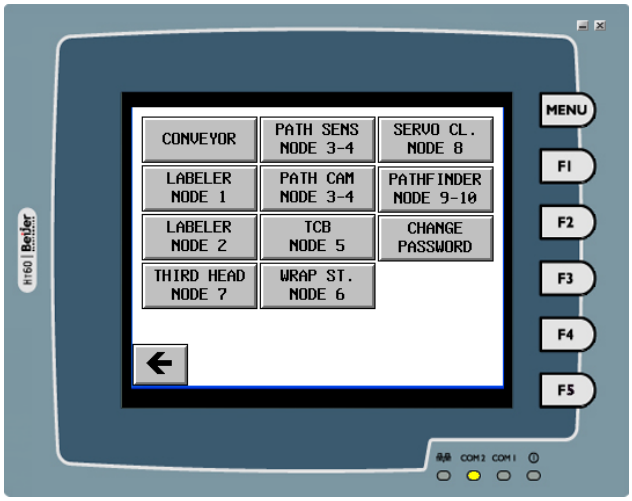
From the main screen, you can reach the **ADVANCED SETTINGS** screen that greatly affects the parameters of the entire system. Therefore, they are password protected to avoid changes made by error.

These have been entered by Nita and should not be accessed unless authorized by manufacturer. Qualified technicians can use this screen to help with troubleshooting.

Note: The presented screens are not necessarily in the same order as you will see them on the Touch screen controller.

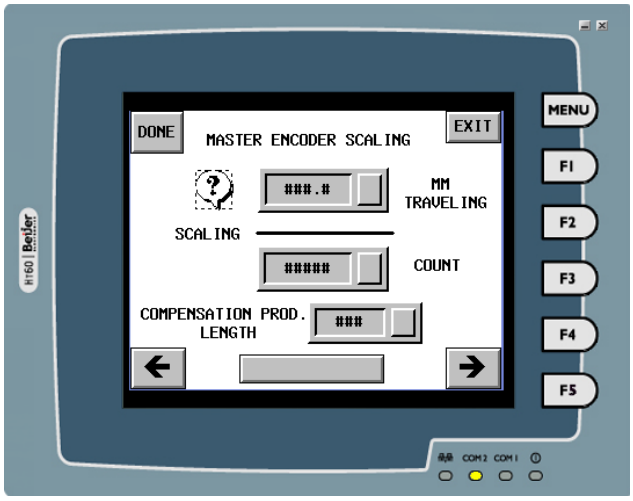




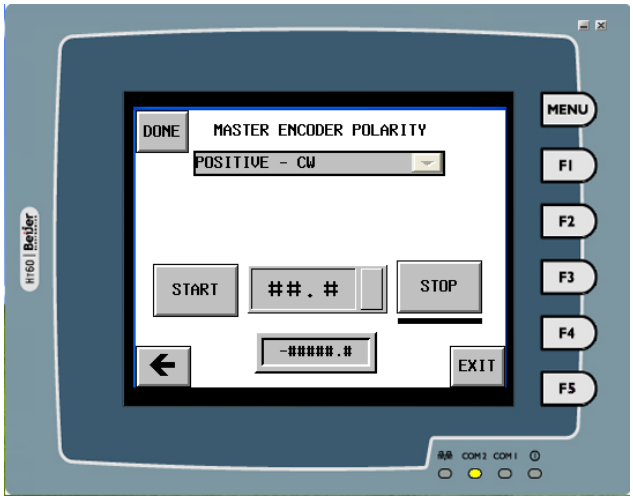


7.11.1 CONVEYOR:

This screen holds crucial information to the well-being of this system. There are directly linked to the systems encoder and affect all synchronized components.



This allows for a change in the encoder rotation direction. You can choose the direction as you require (clockwise or counter clockwise). The actual direction can be seen at the bottom of the screen. When the conveyor is ON the value should always read a positive value. If the value reads negative while the conveyor is on you must choose (from the scroll bar) a direction that will provide a positive readout on the bottom icon.



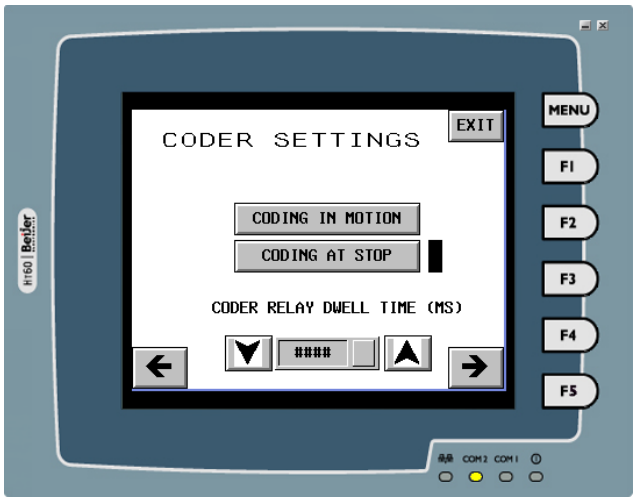
7.11.2 LABELER NODE 1: It's corresponding to the Front Labeler

CODER SETTING:

For the coder setting you has two choices;

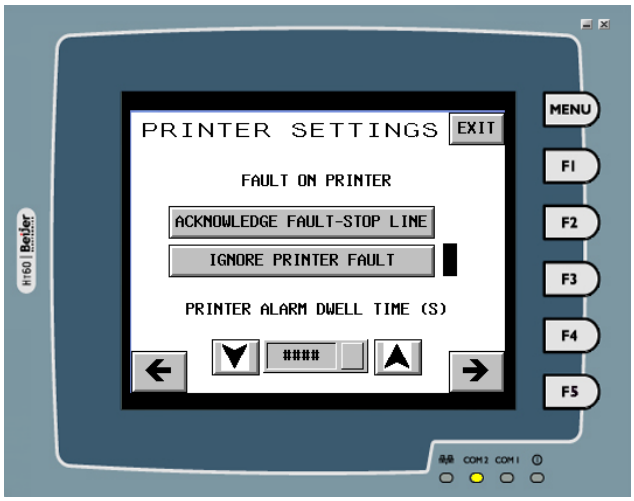
1) CODING IN MOTION: The output (output #7) is activated when the labeling head is in movement. This is typically for ink jet coding system

2) CODING AT STOP: The output (output #7) is activated when the labeling head is at stop. This is typically for Hot Stamp coder or Thermal printing coder.



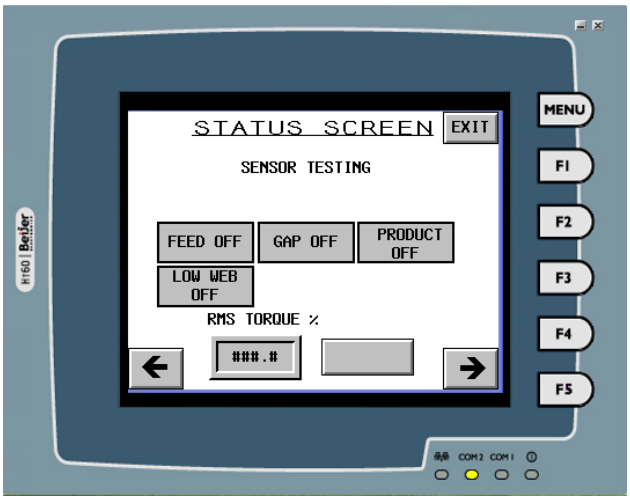
PRINTER SETTING:

This setting is used with the loose loop system (desktop printer). You can control the fault to start or stop the line. Also you can increase or decrease the DWELL TIME (in Sec.) for the printer alarm.



Status – Front labeler

This screen is used to visually confirm the input signals from the sensors to the HMI controller. Each labeler has its own verification tabs that allow the technician to verify the proper relaying of signals for the product sensors, gap sensors… By waving hand in front of the sensors, the technician can emulate the signal and confirm the status using the tabs. These will change from on to off or vice versa when the sensor beam is activated. If your system contains multiple labelers, you will find a similar screen for each additional labeler under the advanced settings screen heading.

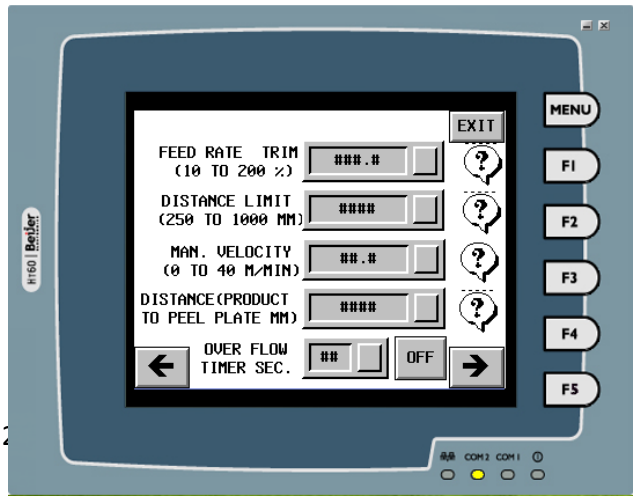


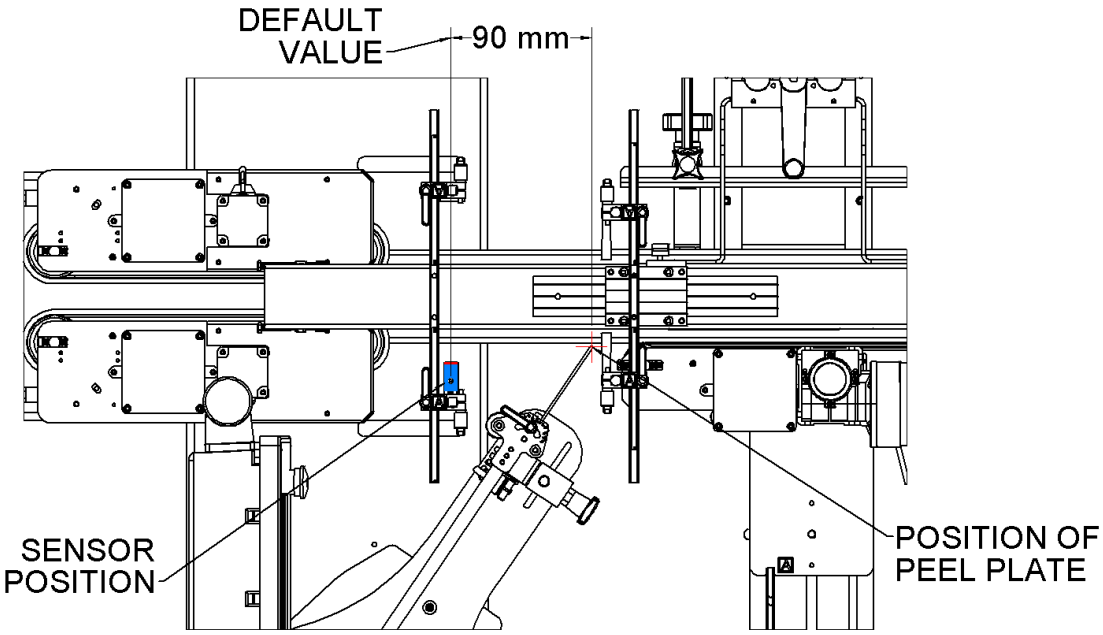
Feed Rate Trim: Works with the encoder. At 100% the speeds of the labeling head is synchronized 1:1 with the conveyor speed. If the value is augmented, the labeler will be faster than the conveyor. If the value is lower than 100%... the labeler will be slower than the conveyor speed.

Distance limit: This value corresponds to the maximum distance traveled before a "label out" alarm will sound.

Man velocity: This corresponds to the labeler speed in manual mode and the flagging speed of the label in TRI PANEL mode.

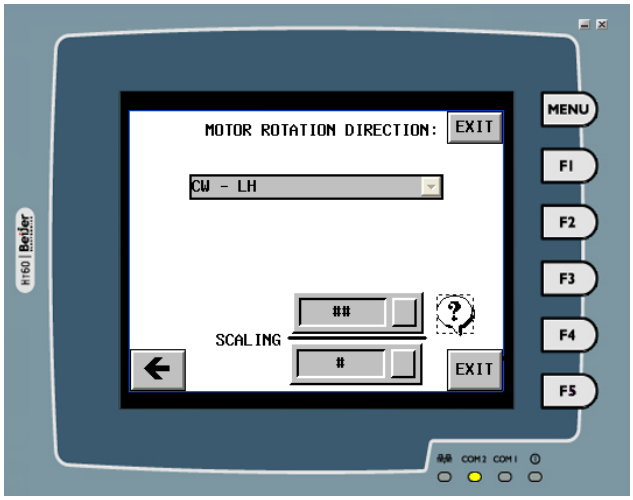
Distance (product to peel plate): This is the distance between the product sensor and the peel plate edge. We can clearly see (on the illustration below) that the proper setting to be entered would be 90 mm.





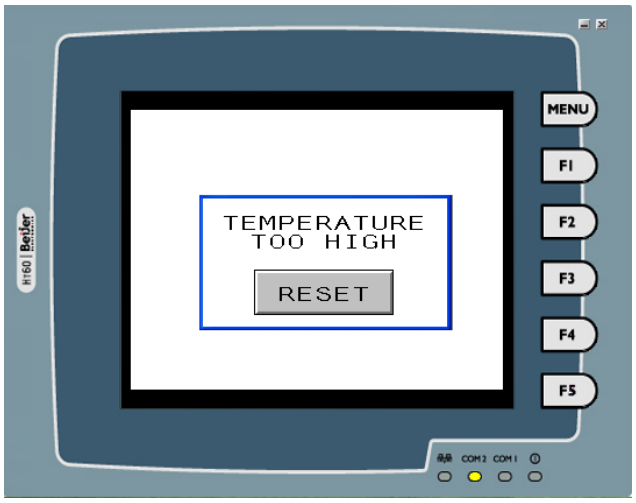
5913000A(MANUAL- GENERAL XP-200T, 4X120in, L TO R WITH SPACING BELT, P-FINDER, BRUSH & WRAP (AUG 12)) PAGE 2

Motor rotation direction and scaling allows you to configure the motor rotation of labeling head



7.12 Alarm screen

Temperature screen Alarm



In accordance to the UL73 and CSA C22.2 68 certification norms, an alarm will sound when the internal temperature of the electrical panel reaches 40 C or 104 F. The system will not stop, you simply have to press RESET to remove this alarm. The alarm will not reappear for as long as the machine stays ON. Although, please make sure that the vent traps are clean and dust free to ensure a proper air circulation within the box.

EMERGENCY SCREEN:

YOU WILL NEED TO PRESS CALIBRATE ON THE HMI AFTER THIS

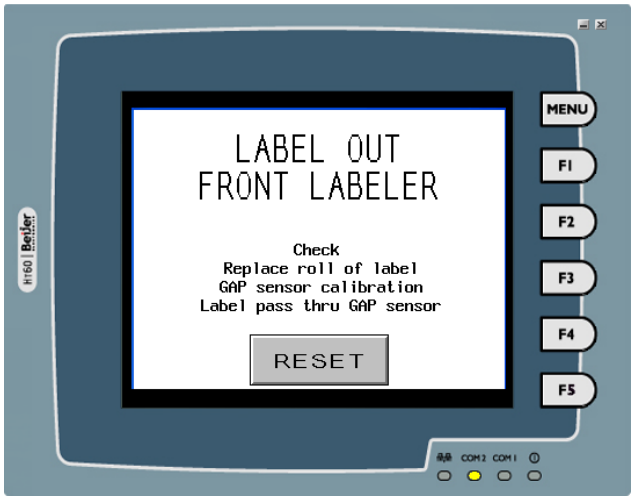
The whole system can be stopped by pressing the red emergency, mushroom-shaped button located on top of the electrical panel. A screen (as shown) will appear and indicates that the emergency button is engaged. An audible alarm signal will also ring.

This screen will stay as long as the emergency button is not released.

LABEL OUT:

This screen appears when a problem with labeling the containers occurs. As you can see, it will indicate from which labeling head the problem is coming from. (Front labeler in this case shows the Fault) An audible alarm will also sound at the same time as this message is displayed.

To reactivate the system, simply press the Reset key. It will lead you to the screen of the faulty labeling head and will stop the audible alarm. You will have to reposition the web (or tend to empty roll) and restart the system.



8 MAINTENANCE

This labeler has been designed with the minimal maintenance requirement possible. There are however some things to take into consideration.

The system is built to perform in humid conditions, but **must not be pressure washed**. In case of wash down conditions, it is recommended to cover each labeling head with plastic tarp.

For the overall cleaning, it is recommended to use compressed air and clean, damp wipes.

Always turn off the system before proceeding with cleaning and maintenance.

The following section explains the preventive maintenance for each section

After every 100 hours of operation, a visual inspection of the system should be done and where it is necessary, lubrication and cleaning should be performed.

⚠	**CAUTION**	**WEAR PROTECTIVE EYEWEAR when performing any maintenance on this equipment**
⚠	**CAUTION**	**To reduce risk of fire, electrocution or other personal injury when operating or maintaining the labeling head, follow basic safety precaution, including the following:**

DO NOT perform any servicing or maintenance with the Power ON.

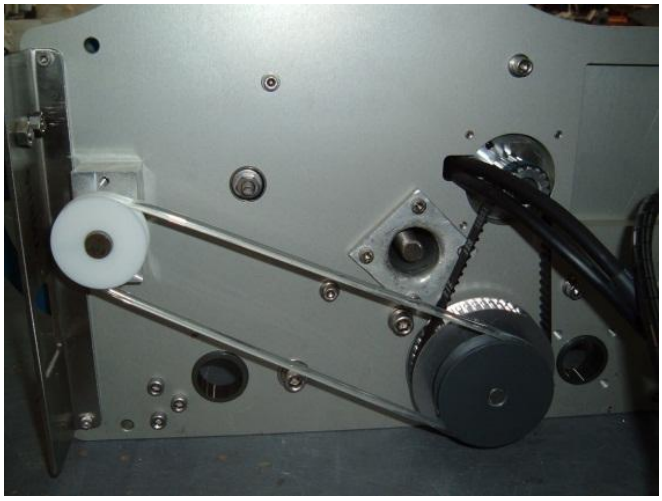
Always disconnect the electrical plug from wall socket

Make sure that the power is OFF or that available E-stop buttons have been activated

LABELING HEADS

Belts:

Monthly, a visual inspection of the rewind belt and timing belt, in back panel should be performed. To do this, you must gain access to the rear panel by removing 4 screws and removing the rear cover.

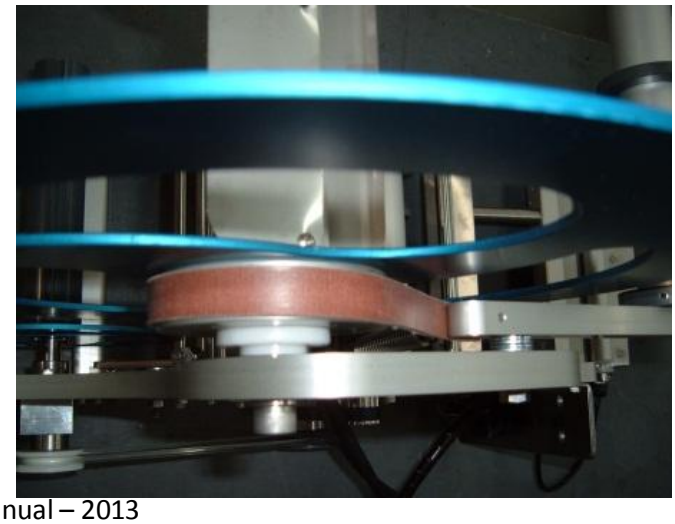


⚠	**CAUTION**	**DO NOT ATTEMPT** doing this with the equipment under tension (with power on).

The visual inspection should consist of looking for cracks or defects in the belts. If this is the case, change the belts that are defective. Refer to the parts listing at the back of this manual (parts section)

The braking mechanism requires a monthly visual inspection as well. Also once every 12 months or so, you should consider replacing the belt (it is possible that this belt be changed prior to the 12 months' time frame therefore a visual inspection to determine cracks or tears in the belt is necessary.

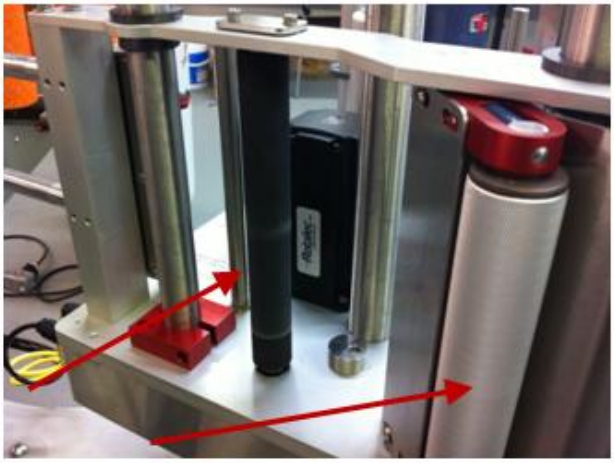
This leather brake belt is located at the rear of the media wheel and is held be a spring & hock assembly. These components are all part of their commended spare parts kit and are listed at the beginning of this manual.

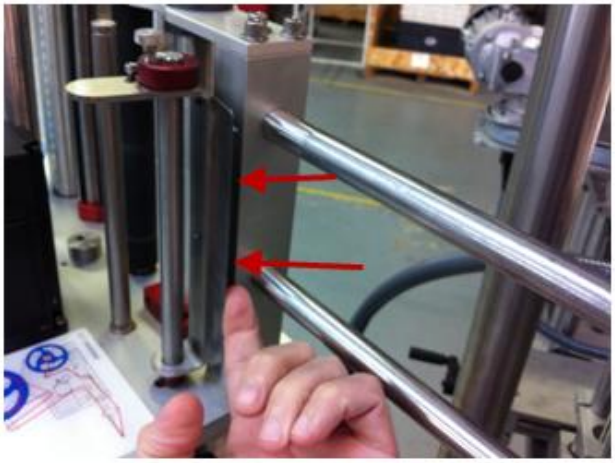


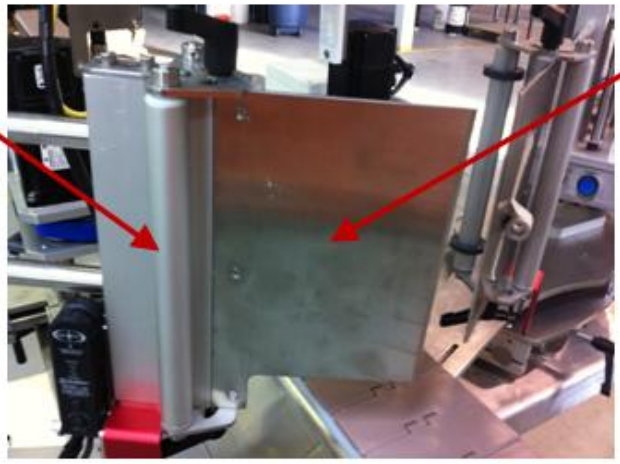
Rollers:

It is important that your labeler be as clean as possible in its environment in order for it to perform properly.

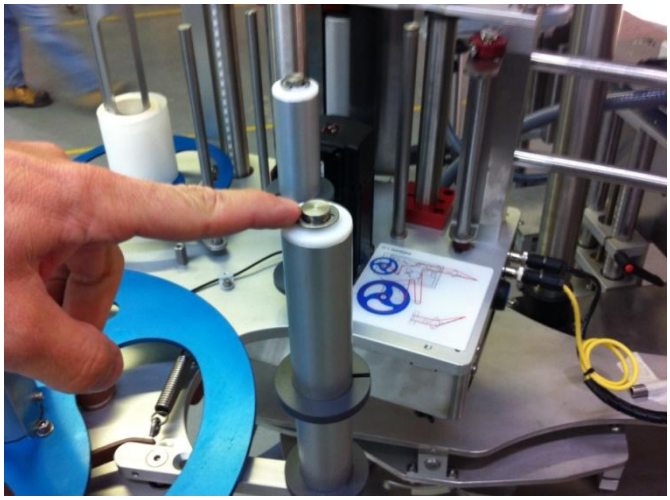
Daily, you may want to clean all the rollers including the drive roller (the rubber one), the tension door and the peel plate using a damp cloth with alcohol. Make sure those parts have no glue or labels on it.







Weekly, spray a silicone base lubricant on each end of the plastic bushing.



Sensors:

The sensors all have an electronic eye called a photocell; these must be free of lint or dirt. Since the photocells are generally made with glass or plastic lenses, they naturally attract substances which could easily fool the sensor, use a cotton swab to gently clean the eye of the sensor as you would any lens, in a circular motion.

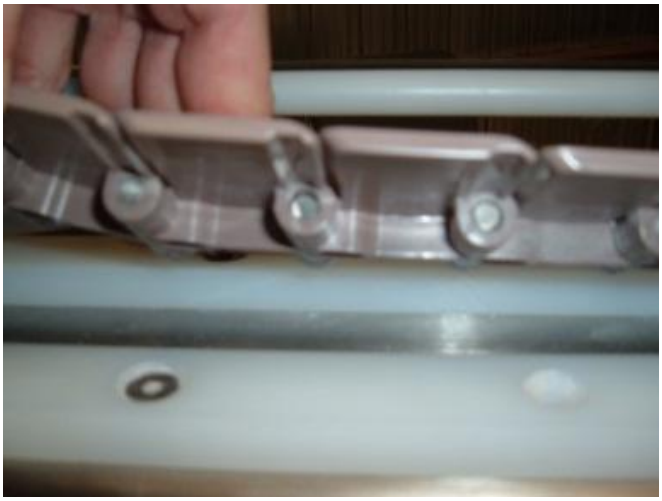
Conveyor:

Always keep the belt clean. To clean it, simply use compressed air and/or damp wipes. If necessary, a soft cleaning agent can be used.

Cleaning

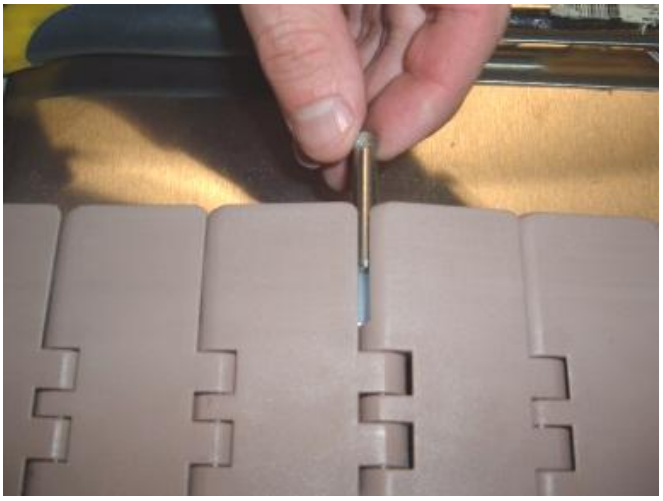
To clean the under carriage portion of the conveyor, simply remove the belt using a pin or nail like tool and a hammer to tap out the retaining belt link pin. (see pics below, there is an orientation to the pins, you must tap it out from the narrow diameter) Clean the desired portion with a damp cloth and replace the pin in the belt as seen below

1) Lift belt

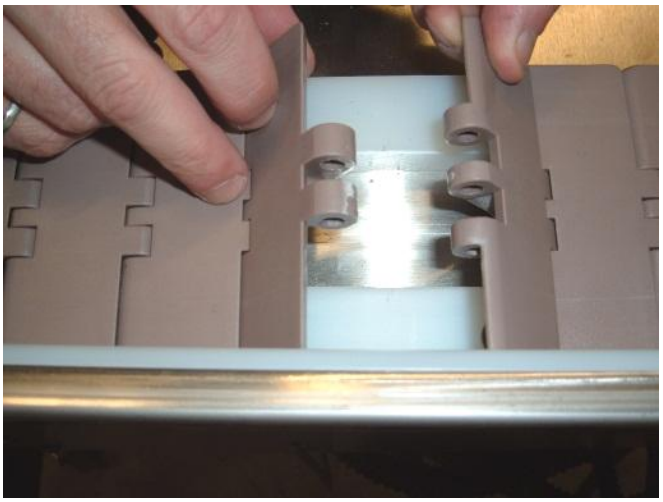


2) Tap out Link Pin

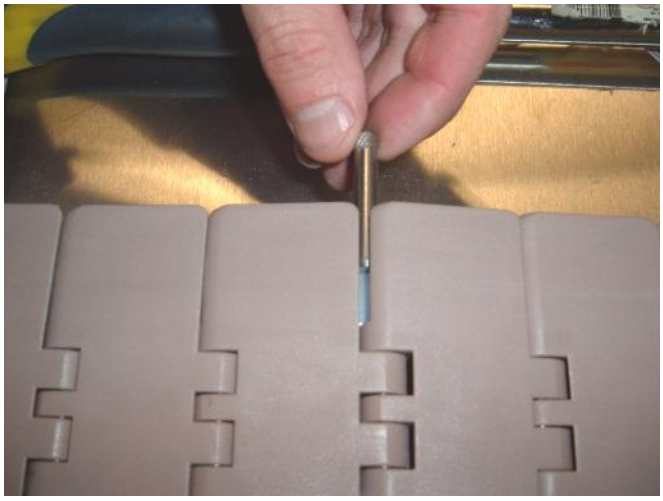
3) Remove pin



4) Separate the belt chain



5) Once cleaned, replace pin



You can also leave the belt on the carriage portion and simply wipe a damp cloth between the belt and the undercarriage structure.

Vents

The electrical panel comes standard with a vent opening (120 x 120mm) to evacuate the possible heat accumulation from the electronic components. On the opposite side of the vent, there is a fan of the same dimensions. One opening has filters which should be cleaned periodically. The frequency in which they require cleaning is based on the amount of dust within each factory. To clean the filters, remove the outside grill portion, remove the filter and clean using an air house or can of compressed air. Simply clean, and /or replace if required.

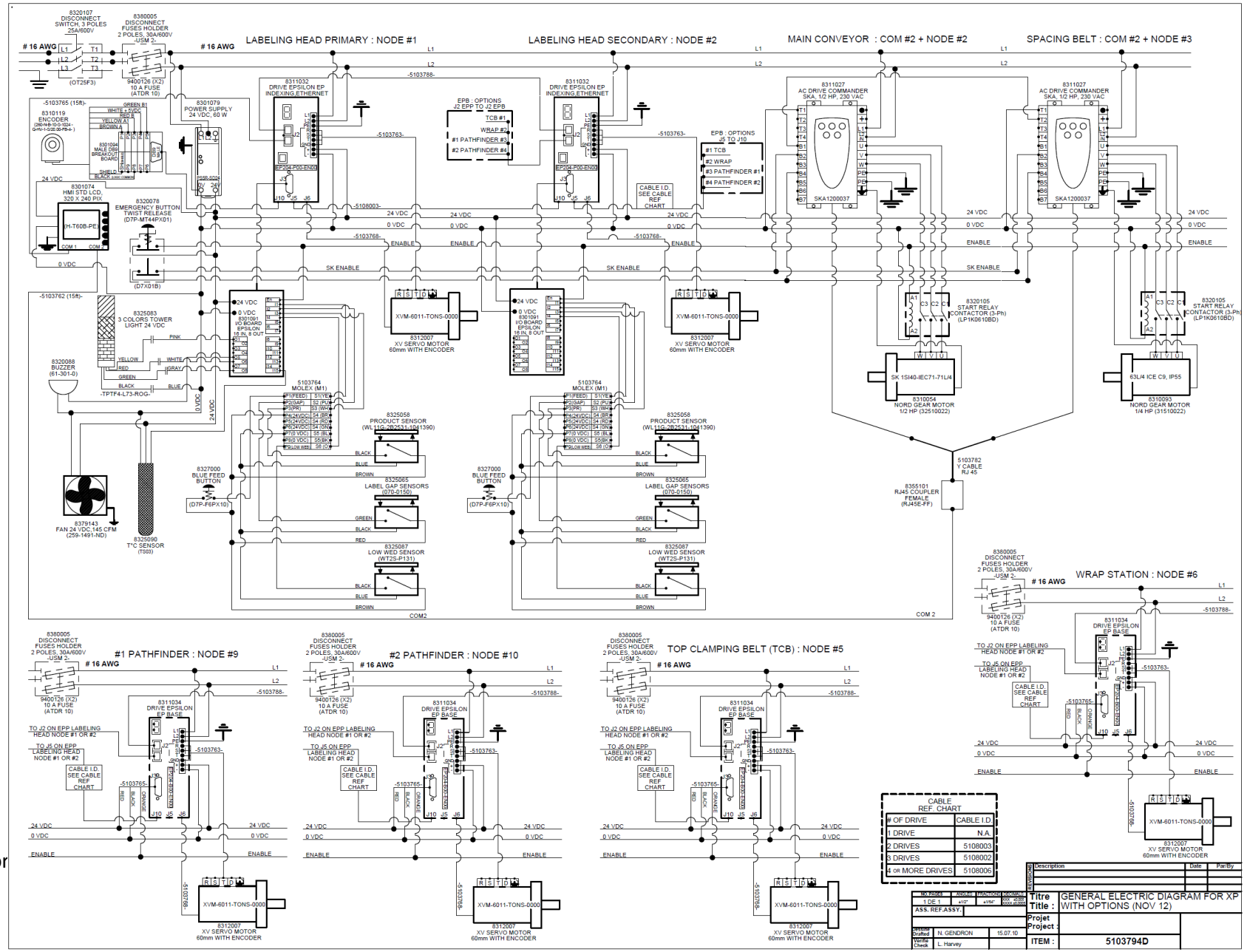
9 TROUBLE SHOOTING – QUICK GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
LABEL OUT ALARM	• The label roll is finished, no more labels in the roll • Dirty label sensor • Sensor not well adjusted • Broken Timing pulley • The label cannot not pass thru GAP sensor • The LABEL FLAG are greater than the label length	• Replace label roll • Check sensor, clean it is necessary • Adjust calibration of sensor • Replace belt • Thread the label correctly • Decrease the label flag under the label length
DOUBLE LABEL APPLIED ON SAME PRODUCT	• Gap sensor does not read correctly • Product sensor is obtaining multiple product reading	To determine if the problem comes from the GAP or Product sensor follow this rule: 1) Place the system in manual mode 2) Press feed 3) If the machine gives 2 or more labels then the problem is the GAP sensor. 4) If not look at the product sensor and re-calibrate it. This sensor may be giving out two signals. Replace sensor if cannot be resolved
SLANTED LABEL DURING APPLICATION	• Machine not oriented properly to the product • Aliment of label within the machine • Product too humid, wet or too cold to be labeled	• Verify position of the machine • Check label tensioner & roll • Use only dry (not too cold) products unless using a special label specific to application
CURLING OF LABELS OR AIR BUBBLES	• Uneven product surface	• Use brush wipe-on adaptor • Improve the product's surface
LABEL IS LATE, NOT CONSTANT	• The label is incorrectly threaded • Dirty drive roller	• Check the threading diagram and re-thread the machine correctly

	• **Drive roller is worn** • **The bushing on the tension roll are worn**	• **Clean the drive roller with an alcohol based cleaner** • **Replace drive roller** • **Replace the tension roll bushing**

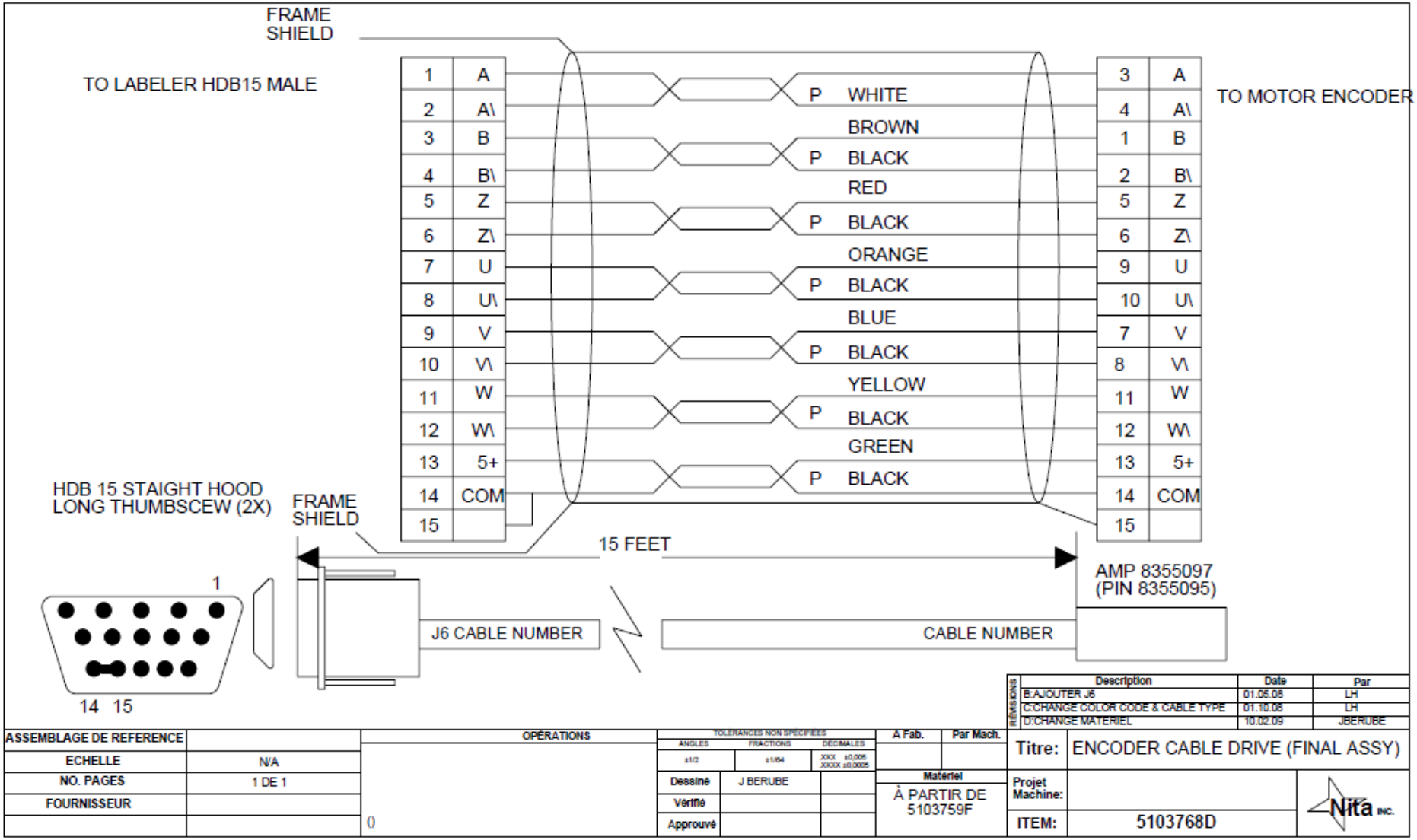
10 ELECTRICAL SCHEMATICS

10.1 GENERAL

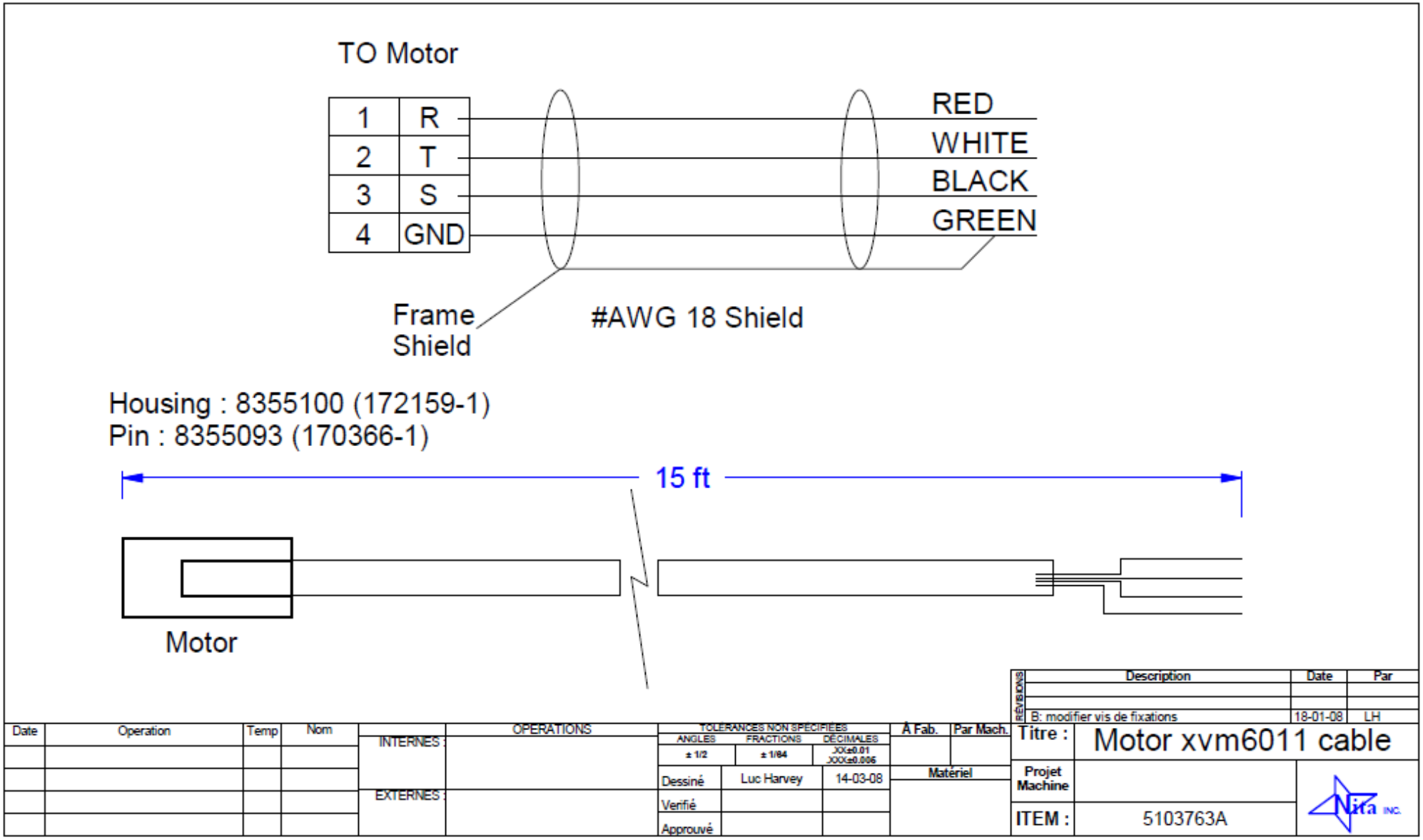


Operator

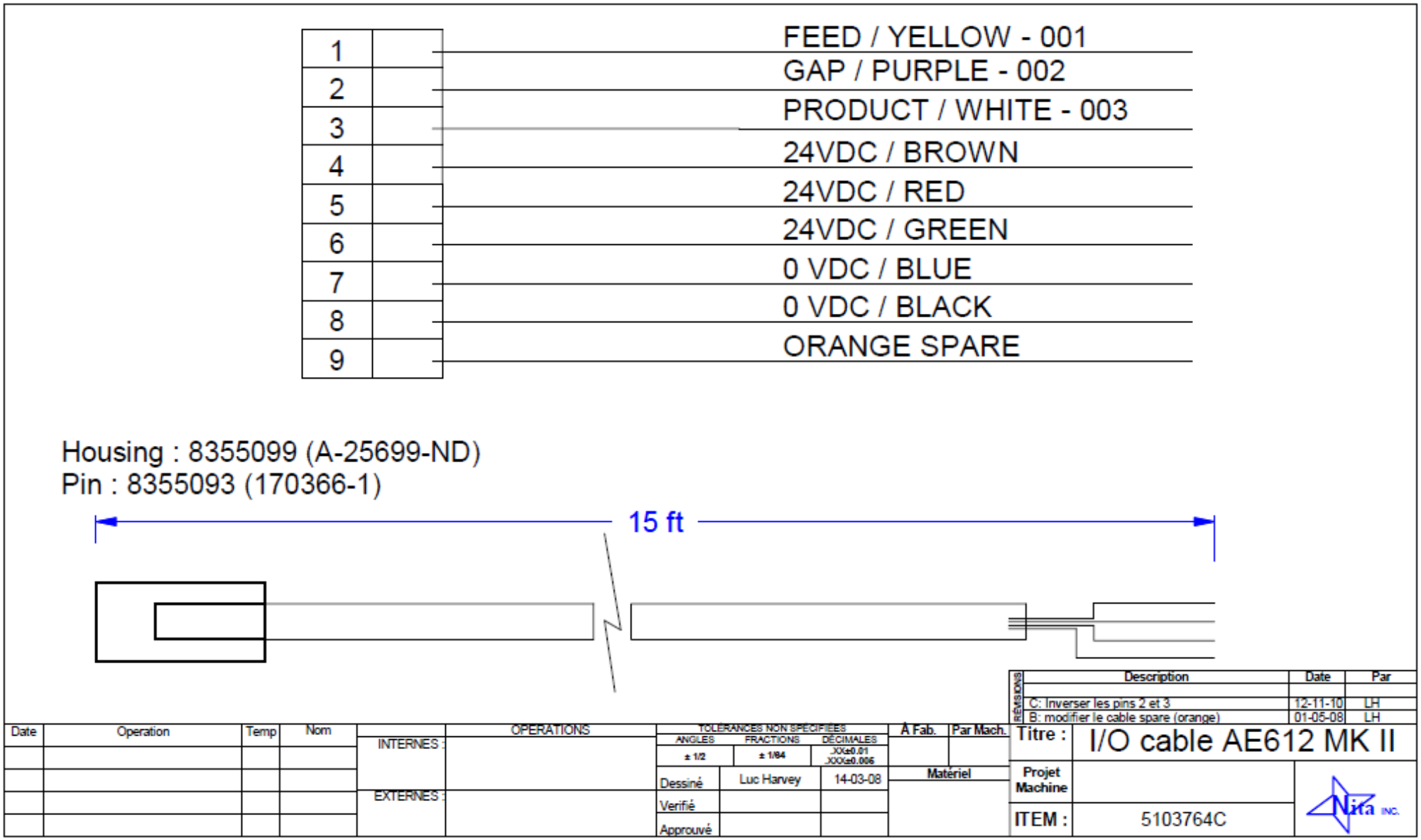
10.2 ENCODER CABLE DRIVE



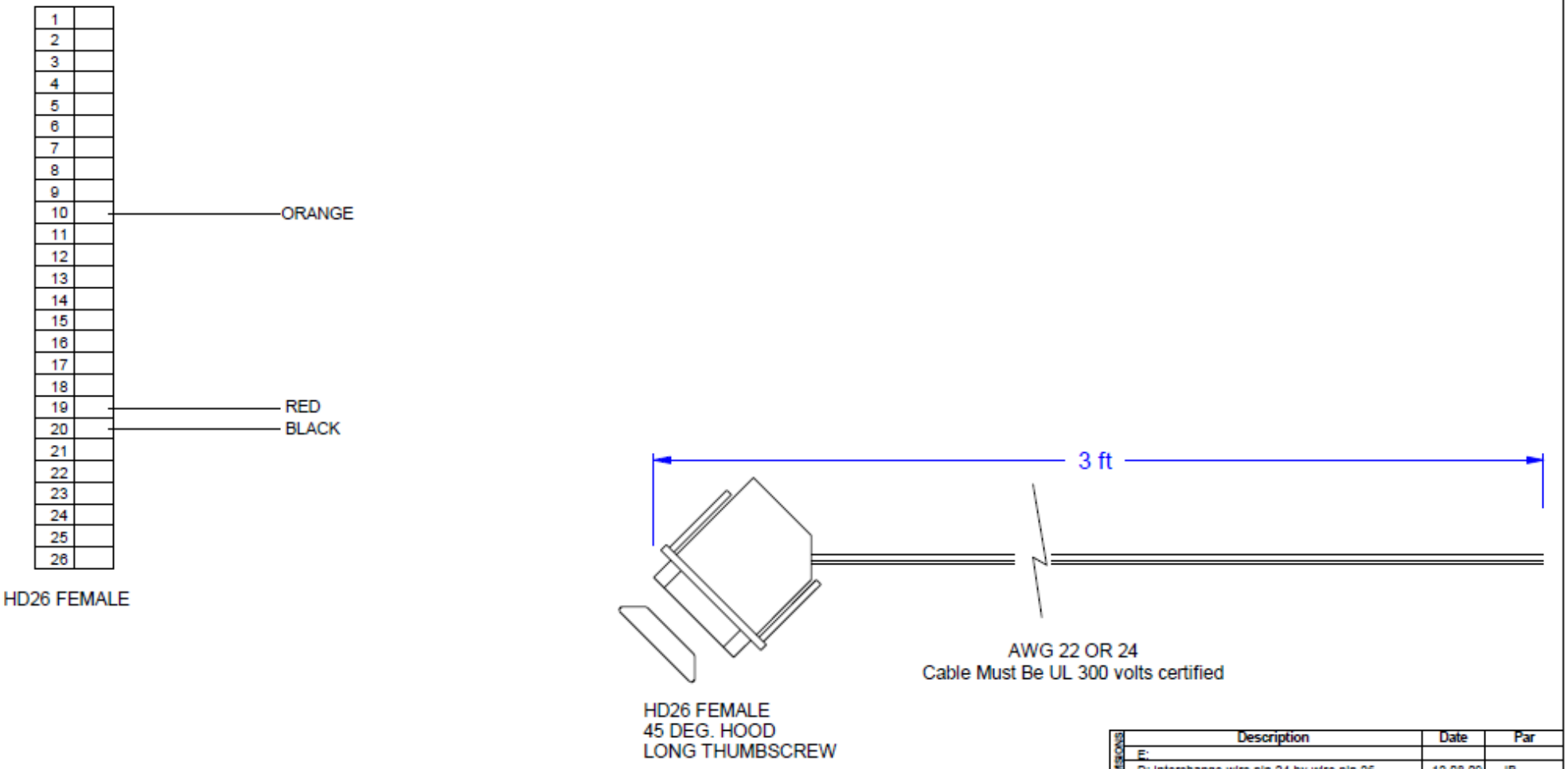
10.3 Motor XVM 6011 CABLE



10.4 I/O AE612MKII CABLE



10.5 I/O DRIVE EPB HD26F



REVISIONS	Description	Date	Par
	E:		
	D: Interchange wire pin 24 by wire pin 26	12.08.09	JB
	C: Cange color code and cable type	19.08.08	LH

Date	Operation	Temp	Nom

INTERNES :
EXTERNES :

OPERATIONS

TOLÉRANCES NON SPÉCIFIÉES

ANGLES	FRACTIONS	DÉCIMALES
± 1/2	± 1/64	.XX±0.01 .XXX±0.005

Dessiné	Luc Harvey	24-03-08
Verifié		
Approuvé		

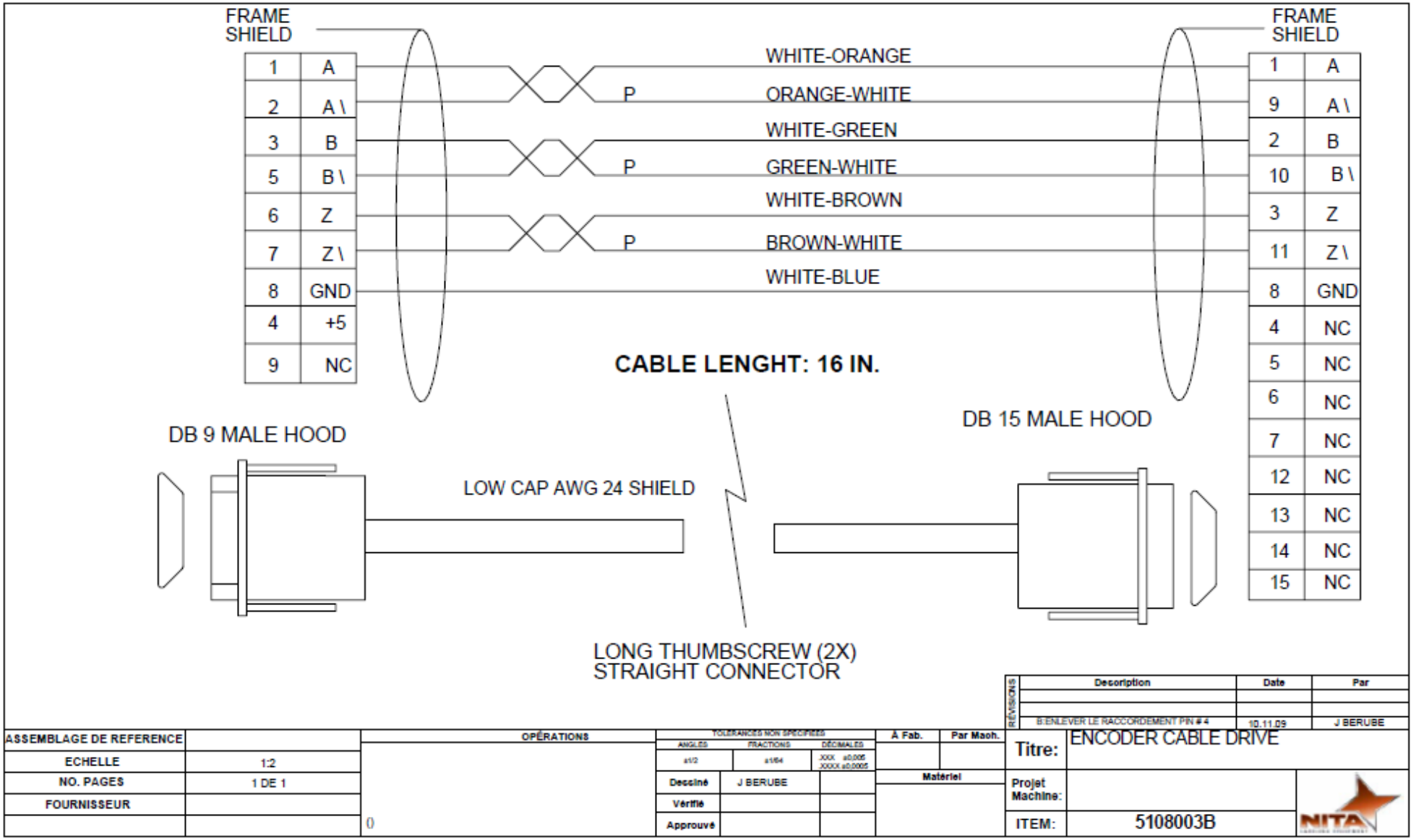
À Fab.	Par Mach.

Materiel

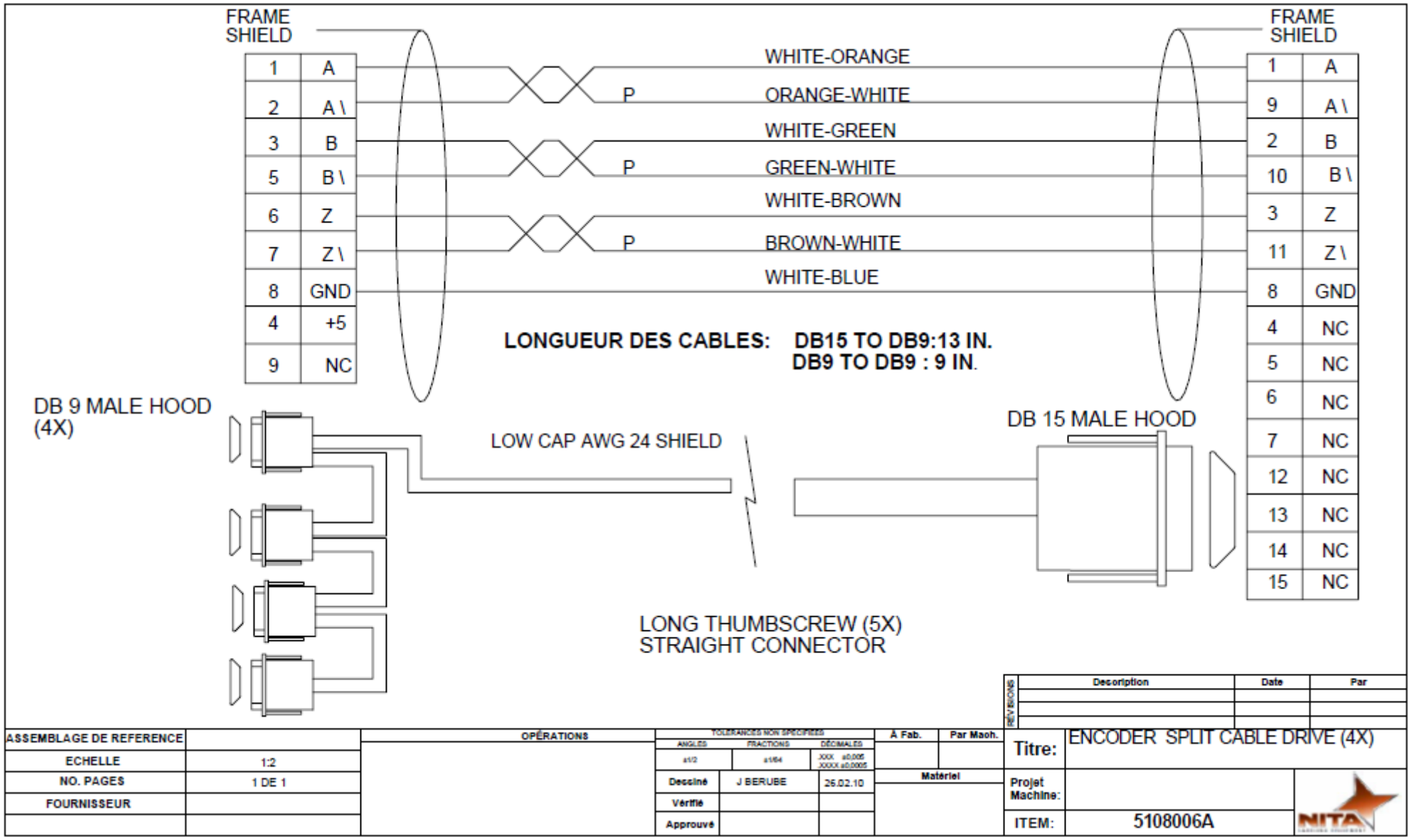
Titre :	CABLE 36" I/O EPSILON EPP HD26F OPEN
Projet Machine	
ITEM :	5103765E

Nita INC.

10.6 ENCODER JUMPER CABLE DRIVE

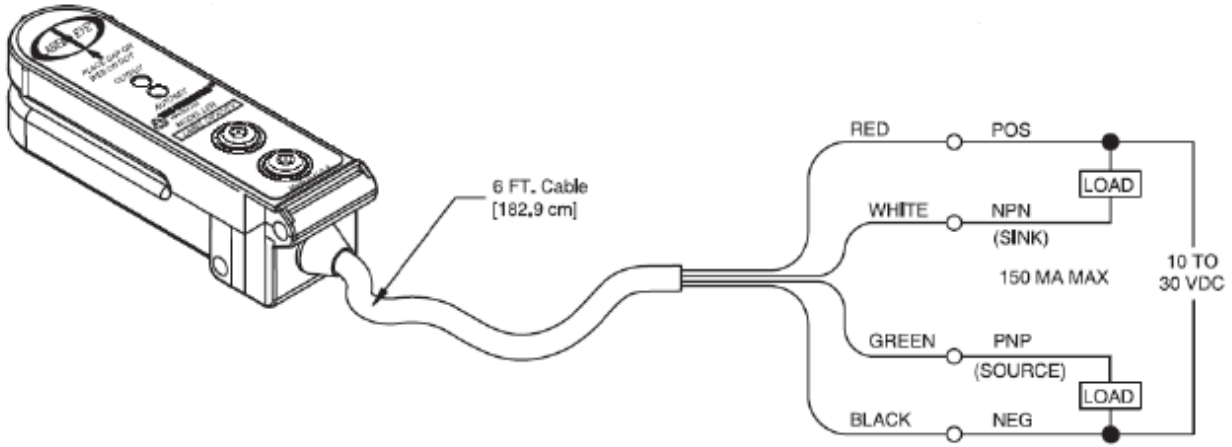


10.7 ENCODER SPLIT CABLE DRIVE (4X)



10.8 CONNECTION GAP SENSOR

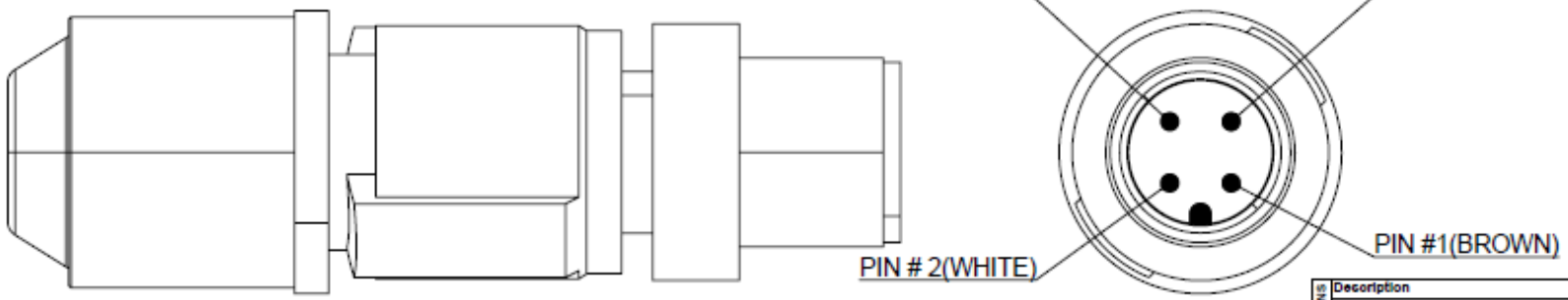
GAP SENSOR (8325065)



CONNECTION

MKII	
WIRE OF SENSOR	CONNECTOR...
RED TO ...	PIN #1
WHITE TO...	PIN #2
BLACK TO...	PIN #3
GREEN TO...	PIN #4

CONNECTOR (8320075)

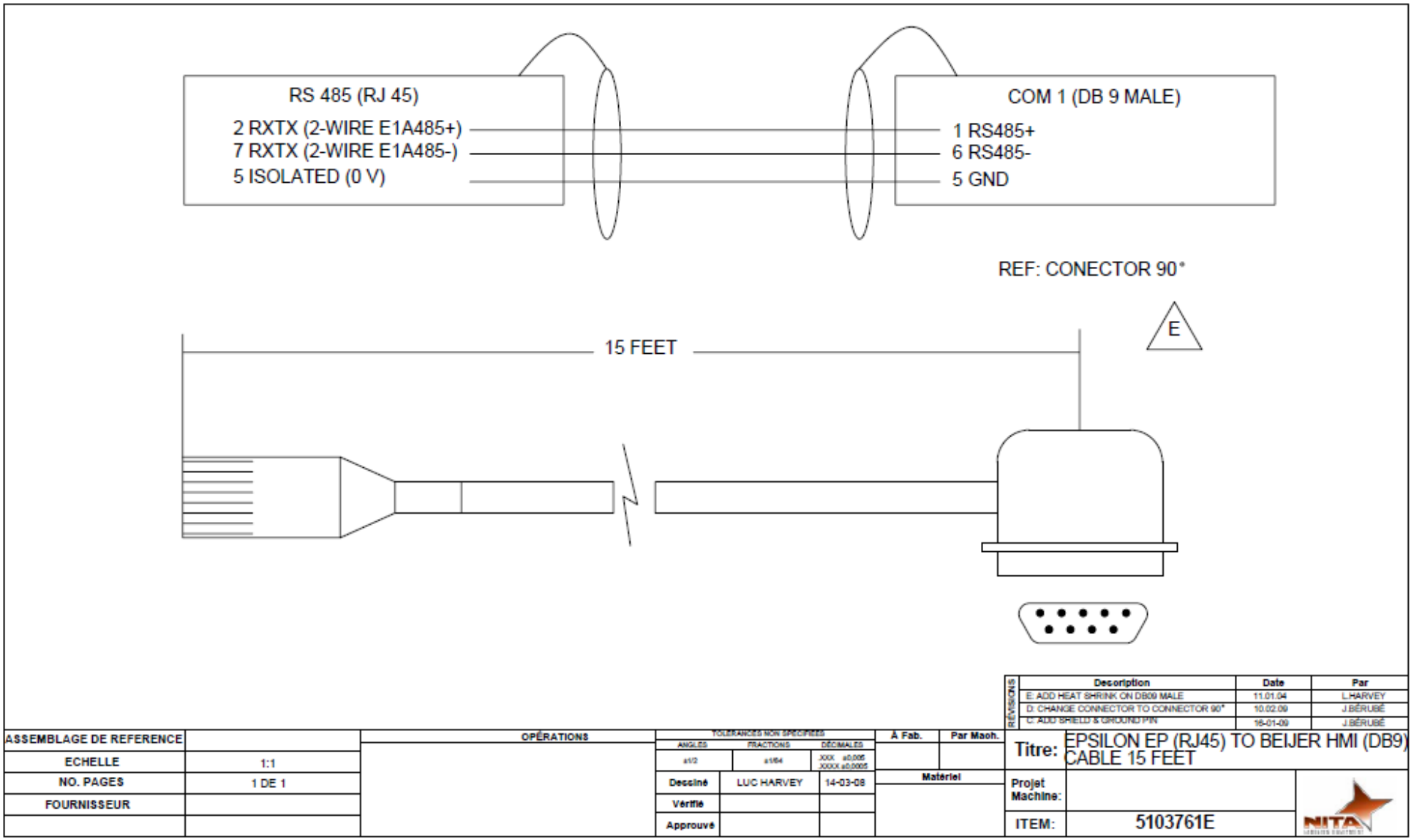


RÉVISIONS	Description	Date	Par

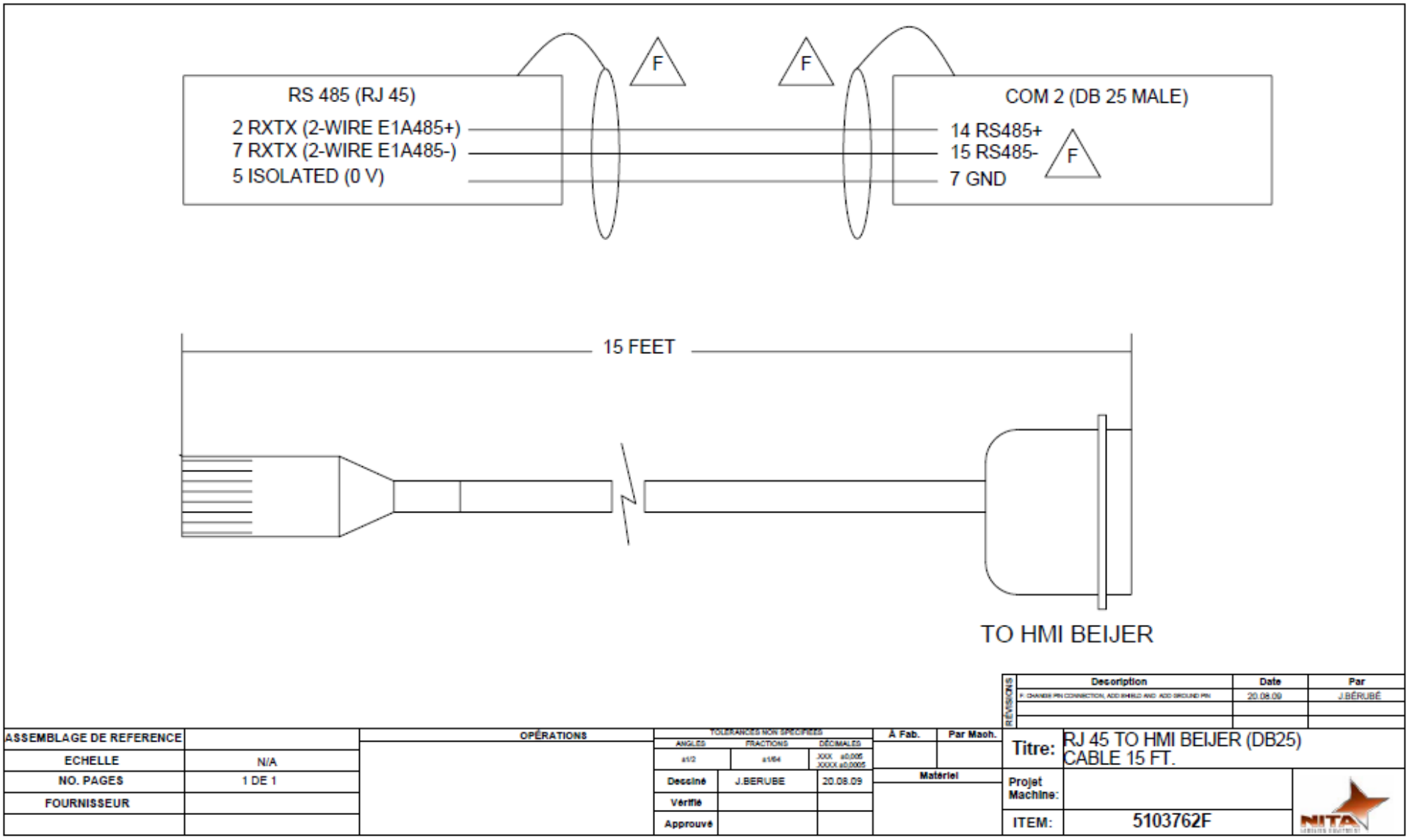
ASSEMBLAGE DE REFERENCE		OPÉRATIONS	TOLÉRANCES NON SPÉCIFIÉES			À Fab.	Par Mach.
			ANGLES	FRACTIONS	DÉCIMALES		
ECHELLE	1:1		±1/2	±1/64	XXX ±0.005 XXXX ±0.0005		
NO. PAGES	1 DE 1		Dessiné	J BERUBE		Matériel	
FOURNISSEUR			Vérifié				
		()	Approuvé				

Titre:	CONNECTION GAP SENSOR TO CONNECTOR FOR MKII
Projet Machine:	
ITEM:	5108000A

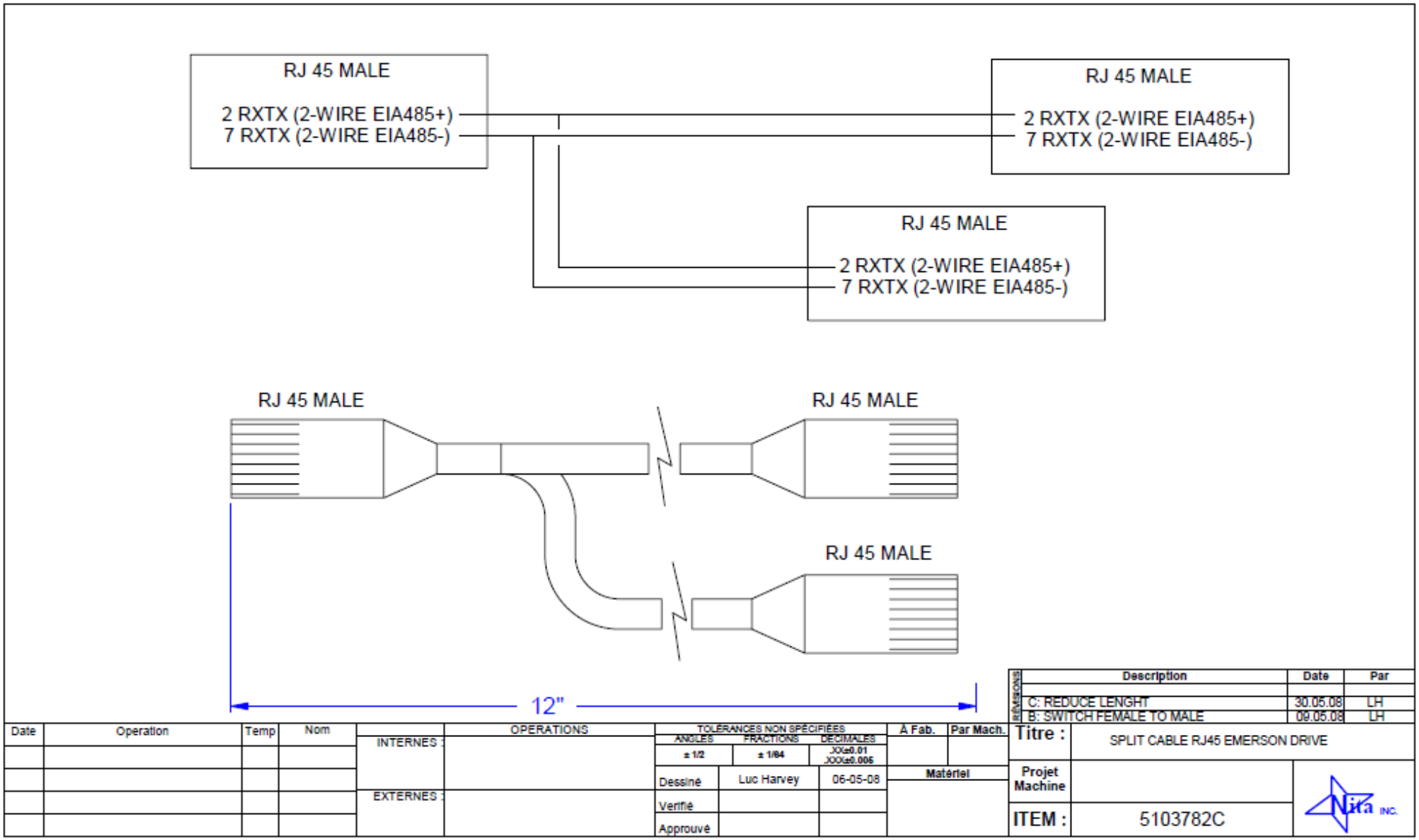
10.9 EPSILON EP (RJ45) TO BEIJER HMI (DB9)



10.10 COMMANDER SK (RJ45) TO HMI BEIJER (DB25)



10.11 SPLIT RJ45 EMERSON DRIVE



11 WARRANTY

The standard warranty period for this Nita equipment is 12 months following invoicing. The warranty covers all parts with consideration taken towards reasonable use and normal wear and tear. Not covered by warranty are parts that have a limited wear factor, any required labor by Nita and any shipping to or from Nita of defective or new parts. Prior to return to Nita, parts must be verified defective. The regular hours covered by the Nita warranty fall under the Nita business hours which are from 8:00 a.m. to 5:00 p.m. Monday through Friday Eastern time.

Return of defective parts

To return a defective part, you need to get a RMA number from Nita. Specify the serial number of the equipment, the client's name, address and phone number, contact name and the nature of the problem.

To get a replacement part, you must produce a purchase order as you would with any regular part order. You will be billed for the new part and credited for the defective one after evaluation. If the part is determined to be defective due to improper use, no credit will be issued. **Note**: shipping charges for the new part and for the return of the defective one are at your expense.

Proprietorship and Risk of Loss

NITA reserves ownership of all equipment ordered by (END USER) until complete payment is received. NITA has the right to claim and repossess any equipment which has not been paid on date, wherever it is, whether it has been installed or not, and to use any means necessary or useful to exercise said right, at (END USER'S) expenses.

Notwithstanding NITA's reservation of ownership, (END USER) becomes fully responsible for loss of or damages to NITA's equipment, as of the date where NITA made the equipment available for pick-up by (END USER).

Appropriate Use of Equipment

The equipment supplied to the end user by Nita are to be used for the sole purpose for which they were intended and must follow Nita's specifications on usage as well as appropriate functions. Nita will not assume any responsibility for any inappropriate use or modifications to the said equipment other than for the use it was initially built for.

The warranty will cease to apply forthwith if, in NITA's opinion, the equipment has been used abnormally or in an abusive manner, of it has not been properly maintained, if it has not been carried on a truck equipped with an air-ride suspension when required by NITA or if it has been used or maintained contrary to the owner's manual provided by NITA.

Responsibility Limits

The solution put forth has been prepared with the information that has been provided to Nita by the end user. Subsequently, Nita cannot assume any responsibility for the exactitude, precision and validity of the information which was supplied. Moreover, Nita cannot be held responsible for (a) any damages, direct or indirect, secondary, or accessory , including, without limitations, the loss of profit, workflow interruption, loss of production, loss of profits and other; (b) any and all damages claimed against the end user by a third party ; (c) all or any damages caused to the property of end user or any other third party; (d) any or all damages resulting in an act from end user or third party, major force, or act of God, unforeseen cause, or event.

With all reservation, in the eventuality where the responsibility is that of Nita relative to any defect of quality of said equipment or proposed solution Nita would be able to Accept the responsibility, to its entire discretion, with the replacement of part of or the said equipment or solution. By a compatible or identical equipment or solution or by a reimbursement of value agreed upon. In no case can Nita's responsibility exceed the total monetary sums received for the said defective equipment or solution.

12 PARTS - COMPONENTS SCHEMATICS SECTION

12.1 SynerG Xp Quick reference spare parts list (5900044)

Spacing Belt unit

- #8130094 Belt gray Pvc

Control Panel

- #8379142 Filter kit for fan
- #9400126 Fuse 10 amp

Wrap Station 16''

- #8130239 Timing 0.50 '' Belt Black (390H300)
- #8130224 Timing Belt Polyurethane(187L050)
- #5112907 Small Back plate foam Blue Zucco

Wrap Station 32''

- #8130026 Timing 0.50 '' Belt Black (700H300)
- #8130224 Timing Belt Polyurethane(187L050)
- #5112082 LargeBack plate foam Blue Zucco

Top Clamping Device 48''

- #5111887 Foam 1'' For Backing belt
- #8130202 Belt black rubber (1000H100)
- #8131083 Belt White Fda (M1000H100JS)

Top Clamping Device 24''

- #5111929B Foam 1'' For Backing belt
- #8131077 Belt black rubber (570H100)
- #8131095 Belt White Fda rubber (M570H100JS)

Sensor And Acc.

- #8325103 Plastic reflector
- #8325058 Reflex product sensor
- #5101796 Sensor Gap Label eye w/ connector
- #8325086 Sensor Gap clear Label
- #8325087 Sensor low web

Labeler head AE612MKII Sparekit 5101906

- #5110986 Axel Tension Roller
- #5110989 Tube Round knurled 1-1/4 Alum.
- #5111139 Belt transmition rewind
- #5111167 Strap Braking for Unwind
- #8110119 Bearing Roll end plastic
- #8130199 Belt Timing 3/8 type Xl-(E)€
- #8708016 Bolt Eye 6/32
- #8708019 Bolt Eye 8/32
- #8180030 Spring ext. ½ x 2 1/2
- #8181064 Spring tension

Labeler HeadWide AE612MKII Sparekit 5101907

- #5111389 Axel Long Tension Roller
- #5111387 Tube long Round knurled 1-1/4 Alum.
- #5111139 Belt transmission rewind
- #5111167 Strap Braking for Unwind
- #8110119 Bearing Roll end plastic
- #8130199 Belt Timing 3/8 type Xl-(e)
- #8708016 Bolt Eye 6/32
- #8708019 Bolt Eye 8/32
- #8180030 Spring ext. ½ x 2 1/2
- #8181064 Spring tension

Labeler HeadAE616MKII Sparekit 5101910

- #5110986 Axel Tension Roller
- #5110989 Tube Round knurled 1-1/4 Alum.
- #8125002 Polyclutch slipper
- #5111167 Strap Braking for Unwind
- #8110119 Bearing Roll end plastic
- #8130199 Belt Timing 3/8 type Xl-(E)
- #8708016 Bolt Eye 6/32
- #8708019 Bolt Eye 8/32
- #8180030 Spring ext. ½ x 2 1/2
- #8181065 Spring tension 12mmx 90mm

Labeler HeadAE616 wide spare kit 5101911

- #5111389 Axel Tension Roller

Orienting device (cam device)

- #8130199 Timing Belt
- #5111550 Timing Belt white neoprene

Pathfinder (Skew corrector)

- #8130199 Timing Belt
- #5112221 Timing Belt with Blue Zucco cover

Ratchet Handle

- #8181022 Handle w/stud ¼-20 x ¾
- #8181057 Handle Fem. 5/16
- #8181068 Handle w/stud 10-32

- #5111387 Tube Round knurled 1-1/4 Alum.
- #8125002 Polyclutch slipper
- #5111167 Strap Braking for Unwind
- #8110119 Bearing Roll end plastic
- #8130199 Belt Timing 3/8 type Xl-(E)
- #8708016 Bolt Eye 6/32
- #8708019 Bolt Eye 8/32
- #8180030 Spring ext. ½ x 2 1/2
- #8181065 Spring tension 12mmx 90mm

Brush

- #5102300 Brush 4''
- #5111177 Peel Plate STD head
- #5111398 Peel Plate Wide head

12.2 PARTS LIST

Part #	Description	Qty
5101906	**BASE KIT AE612-MKII (includes all below parts)**	**1**
5110986	Tension roller axel – Tension roller assy	1
5110989	Round alum. Tube OD 1/14, ID 1/18 – Tension roller assy	1
5111139	Rewind transmission belt	1
5111167	Braking strap for unwind	1
8110119	Roll end plast. Bearing ID 0.5 Delrin	2
8130199	Timing belt 3/8 type XL	1
8180064	Tension spring (For Rewind)	1
8180030	Tension spring brake (old 8180019 or b-611) (For Unwind)	1
8708016	Hook for brake (old 5102031 or 04-099) 6-32	1
8708019	Hook for brake 8-32	
5101907	**BASE KIT AE612-MKII Wide (includes all below parts)**	**1**
5111389	Wide Tension roller axel – Tension roller assy	1
5111387	Wide Round alum. Tube OD 1/14, ID 1/18 – Tension roller assy	1
5111139	Rewind transmission belt	1
5111167	Braking strap for unwind	1
8110119	Roll end plast. Bearing ID 0.5 Delrin	2
8130199	Timing belt 3/8 type XL	1
8180064	Tension spring (For Rewind)	1
8180030	Tension spring brake (old 8180019 or b-611) (For Unwind)	1
8708016	Hook for brake (old 5102031 or 04-099) 6-32	1
8708019	Hook for brake 8-32	
5101908	**BASE KIT AE612-MKII Extra-Wide (includes all below parts)**	**1**

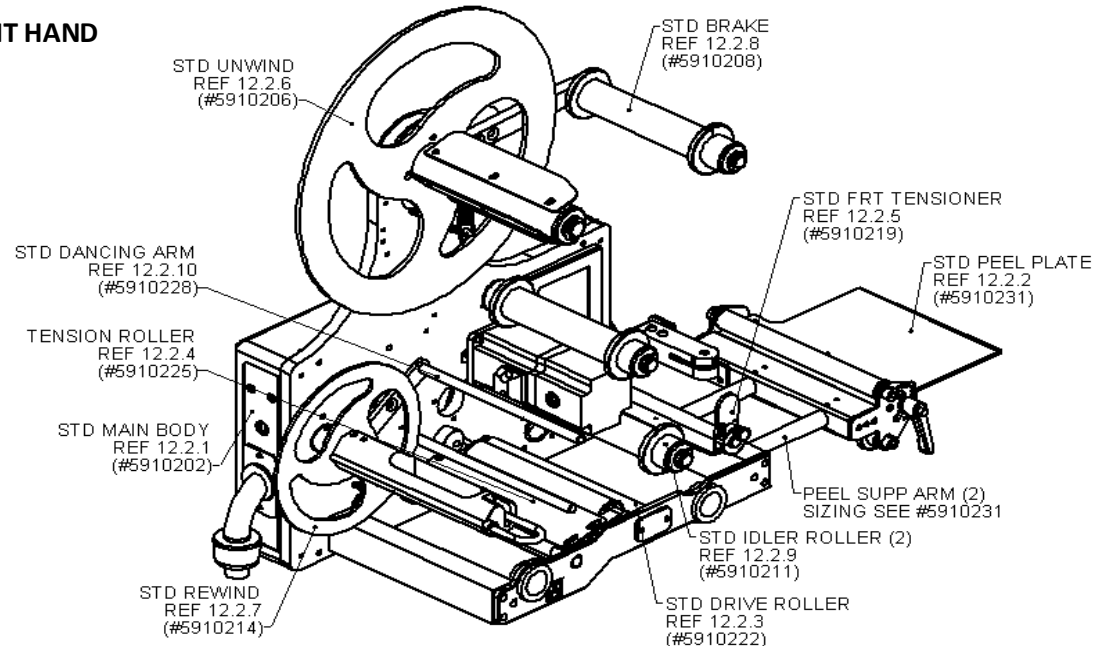
Part #	Description	Qty
5112404	Extra-Wide Tension roller axel – Tension roller assy	1
5112406	Extra-Wide Round alum. Tube OD 1/14, ID 1/18 – Tension roller assy	1
5112419	Rewind transmission belt 5mm	1
5111167	Braking strap for unwind	1
8110119	Roll end plast. Bearing ID 0.5 Delrin	2
8130227	Timing belt 1/2 type L (150L050)	1
8180064	Tension spring (For Rewind)	1
8180030	Tension spring brake (old 8180019 or b-611) (For Unwind)	1
8708016	Hook for brake (old 5102031 or 04-099) 6-32	1
8708019	Hook for brake 8-32	
5101910	**BASE KIT AE616-MKII (includes all below parts)**	**1**
5110986	Tension roller axel – Tension roller assy	1
5110989	Round alum. Tube OD 1/14, ID 1/18 – Tension roller assy	1
8125003	Polyclutch slipper shaft	1
5111167	Braking strap for unwind	1
8110119	Roll end plast. Bearing ID 0.5 Delrin	2
8130199	Timing belt 3/8 type XL	1
8180065	Tension spring (Rewind)	1
8180030	Tension spring brake (old 8180019 or b-611) (For Unwind)	1
8708016	Hook for brake (old 5102031 or 04-099) 6-32	1
8708019	Hook for brake 8-32	1
5101911	**BASE KIT AE616-MKII Wide (includes all below parts)**	**1**
5111389	Wide Tension roller axel – Tension roller assy	1
5111387	Wide Round alum. Tube OD 1/14, ID 1/18 – Tension roller assy	1
8125003	Polyclutch slipper shaft	1

Part #	Description	Qty
5111167	Braking strap for unwind	1
8110119	Roll end plast. Bearing ID 0.5 Delrin	2
8130199	Timing belt 3/8 type XL	1
8180065	Tension spring (For Rewind)	1
8180030	Tension spring brake (old 8180019 or b-611) (For Unwind)	1
8708016	Hook for brake (old 5102031 or 04-099) 6-32	1
8708019	Hook for brake 8-32	
Electrical section		
5101796	GAP SENSOR, LABEL EYE	1
8325093	GAP SENSOR, CLEAR LABEL (TRITRONIC)	1
8325086	GAP SENSOR, CLEAR LABEL (DI-SORIC)	1
8325058	PRODUCT REFLECTIVE SENSOR FOR CLEAR PRODUCT (STANDARD ON ALL SYNER G XP AND JOUST SYSTEM)	1
8325066	PRODUCT PROXIMITY REFLEX SENSOR	1
8325087	LOW WEB PROXIMITY PHOTOELECTRIC PNP	1
8301074	HMI 5.7” MONO FUNCTION KEYS AND RECIPE	1
8301079	POWER SUPPLY 24 VDC, 60 W IDEC	1
8301095	POWER SUPPLY 24 VDC, 120 W IDEC	
8301091	INTERFACE BOARD EPSILON EP 16 IN – 8 OUT	1
8307057	NC CONTACT BLOCK EARLY BREAK	1
8310089	INCREMENTAL HOLLOW SHAFT ENCODER (OLD MODEL) WITH DB09 CONNECTOR (MACHINE BUILT BEFORE MID 2011)	1
8310119	INCREMENTAL HOLLOW SHAFT ENCODER (NEW MODEL) WITH DIRECT CABLE (MACHINE BUILT AFTER MID 2011)	
8311027	AC DRIVE COMMANDER SKA, 0.5 HP, 230 VAC	1
8311032	EPSILON DRIVE EP INDEXING C/W ETHERNET CABLE	1
8311034	DRIVE EPSILON EP BASE – CONTROL TECHNIQUE	1

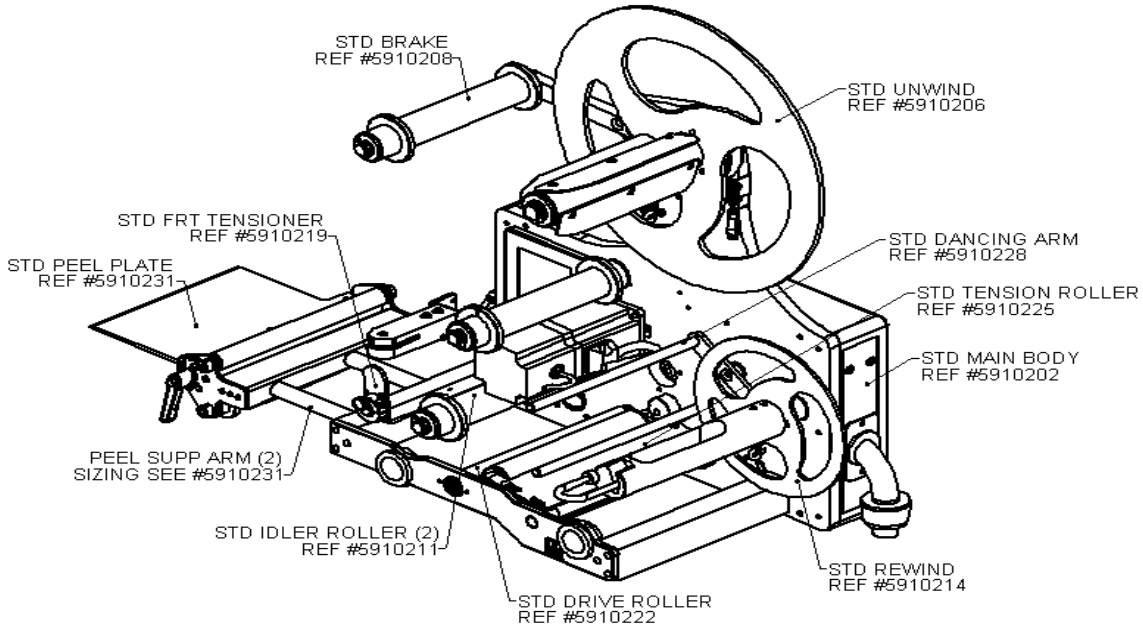
Part #	Description	Qty
8320078	EMERGENCY STOP BUTTON, TWIST RELEASE	1
8320105	START RELAY 24 VDC – CONTACTOR, MINIATURE	1
8320107	NON-FUSIBLE DISCONNECT SWITCH 25A	1
8325080	TEMPERATURE SENSOR 24 VDC ANALOG VERSION , 0 to 100º C (OLD MODEL MACHINE BULT BEFORE 2010)	1
8325090	TEMPERATURE SENSOR 24 VDC 40º C DIGITAL VERSION (NEW MODEL MACHINE BUILT IN 2010 AND AFTER)	1
8379139	EUROPEAN STYLING AIR GRILL WITH FILTER 150 X150mm	1
9400126	FUSE 10 A 10 X 30 MM	4

12.3 AE612MKII - overview labeler head (right & left hand)

RIGHT HAND

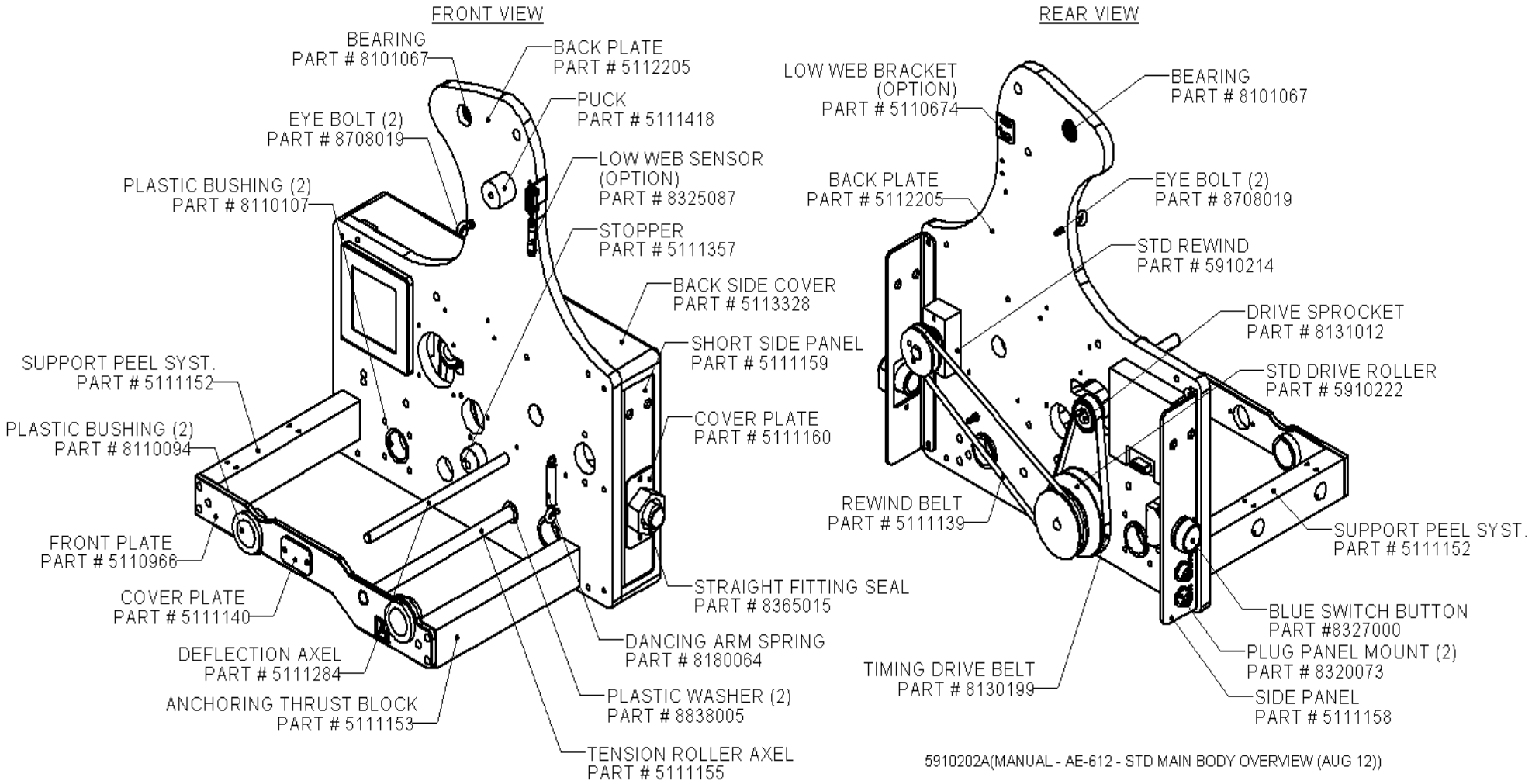


LEFT HAND

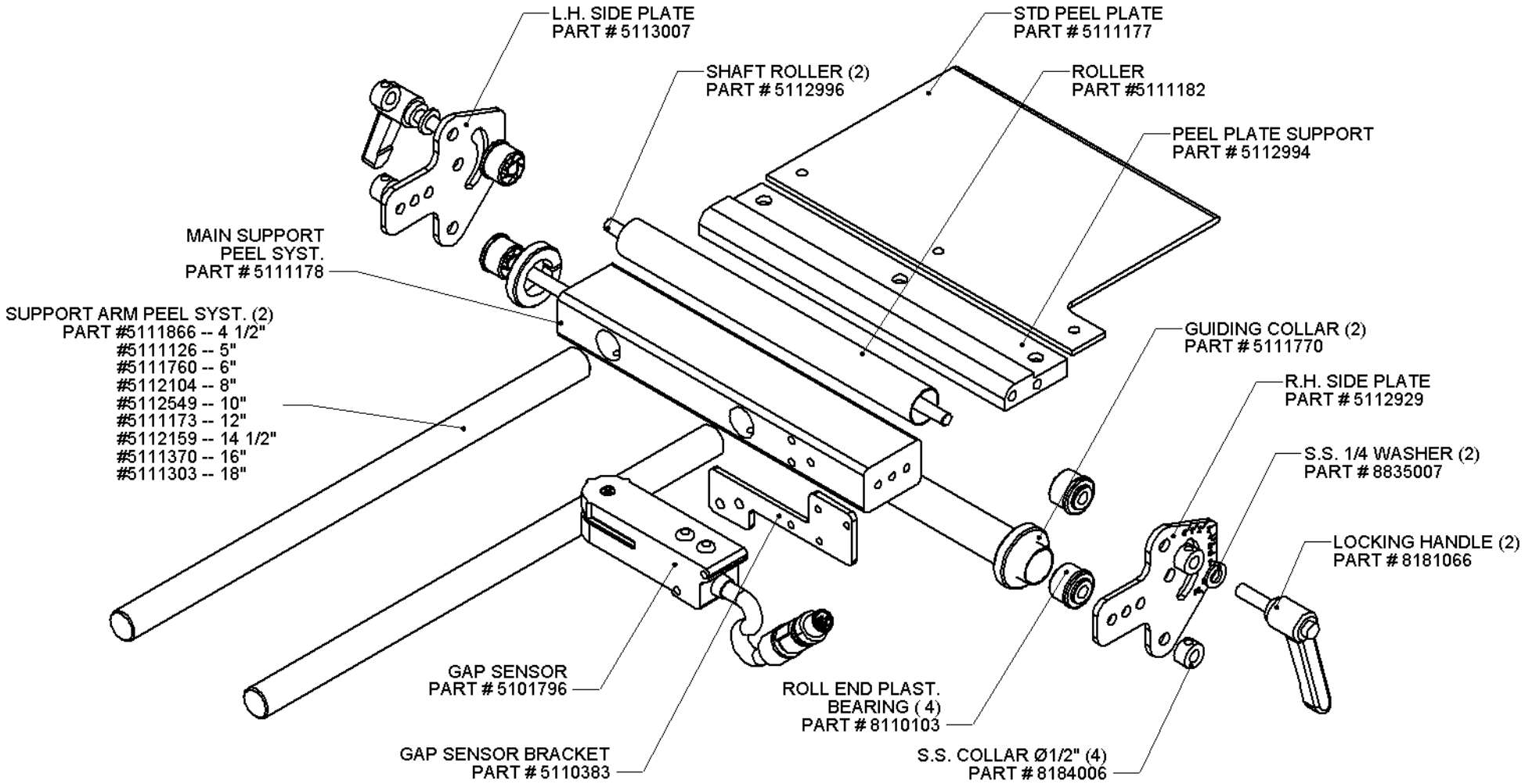


5910001A(MANUAL- AE-612 - GENERAL VIEW AE-612 MKII LEFT HAND (AUG 12))

12.3.1 AE612MKII - Main body & accessories.

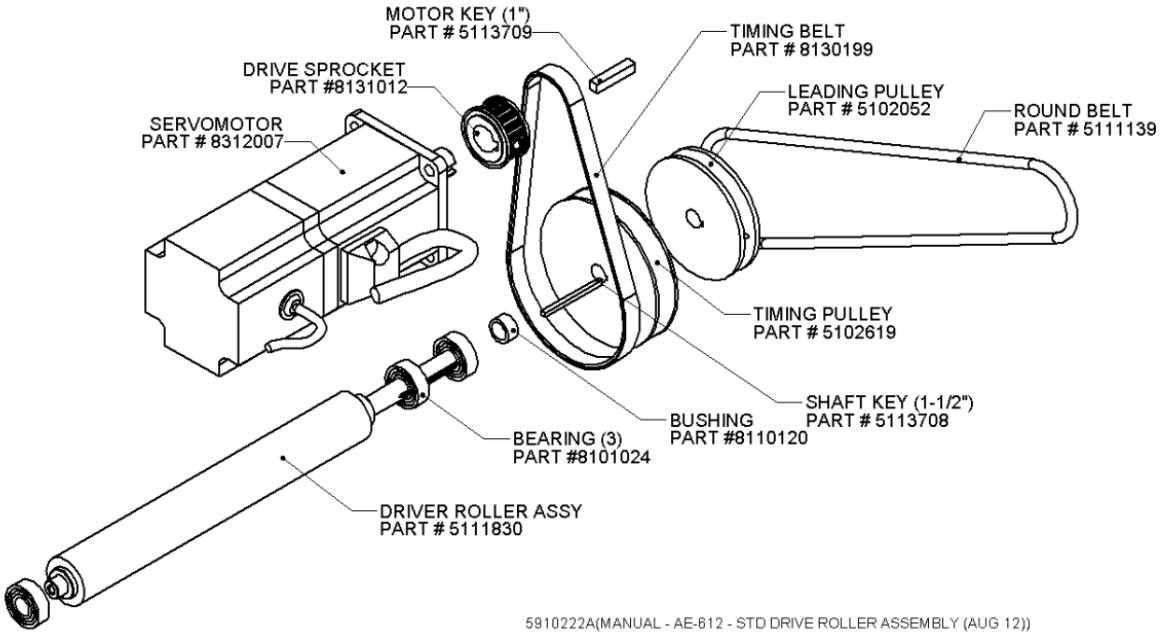


12.3.2 AE612MKII - Peel plate assy

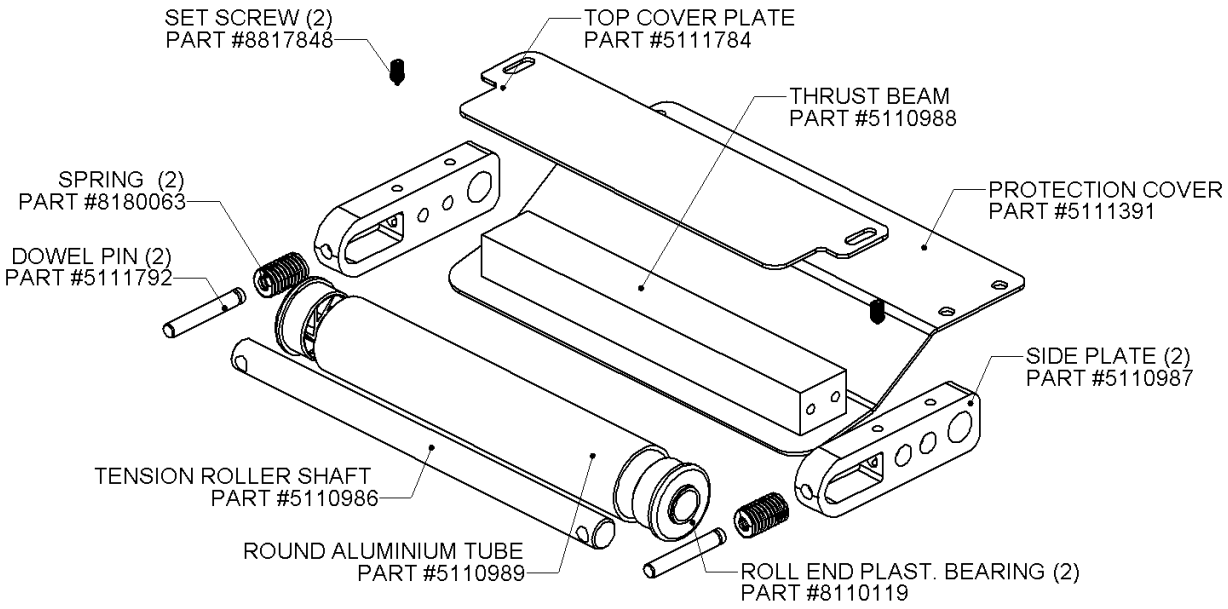


5910231A(MANUAL - AE-612 - STD PEEL PLATE ASSEMBLY (AUG 12))

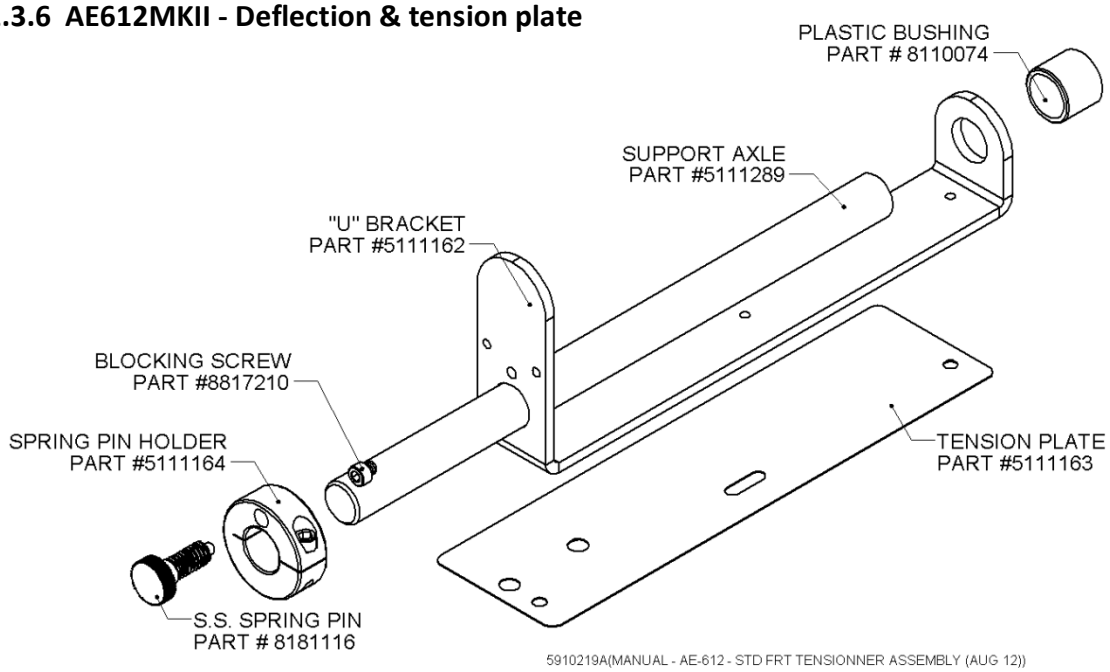
12.3.4 AE612MKII - Driver roller & motor assy



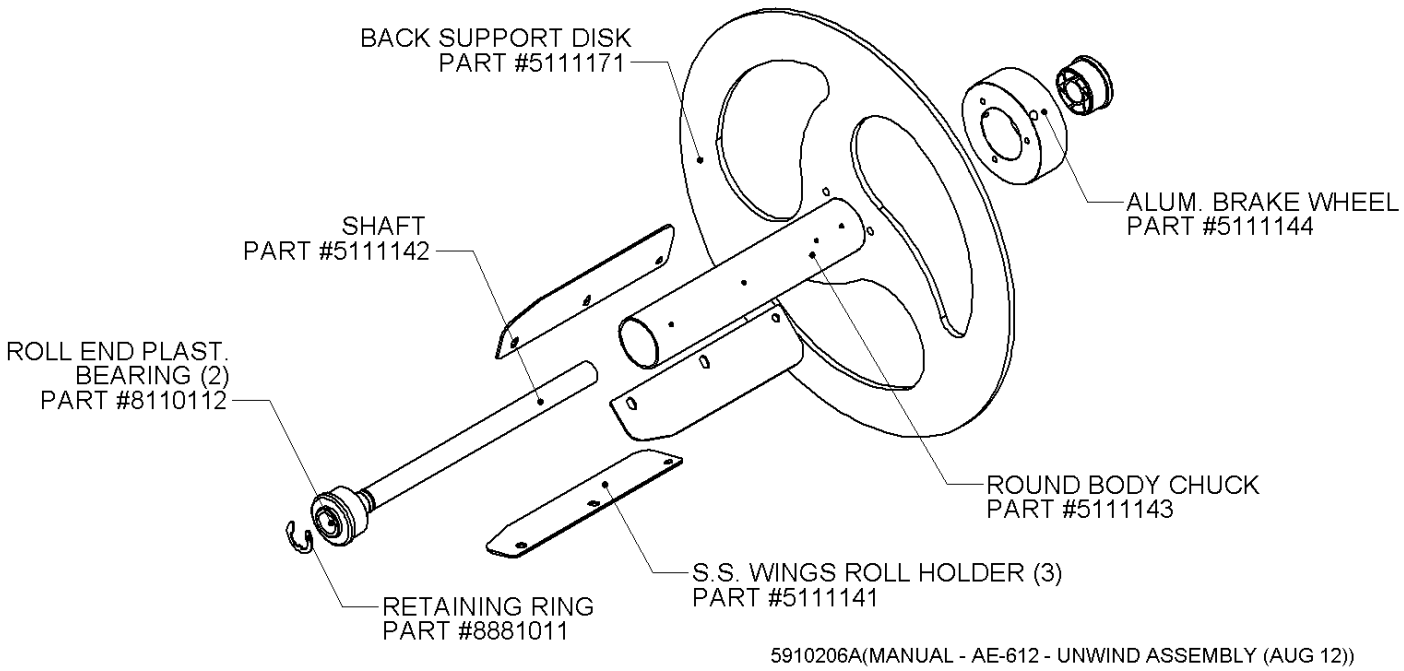
12.3.5 AE612MKII - Guard & tension roller



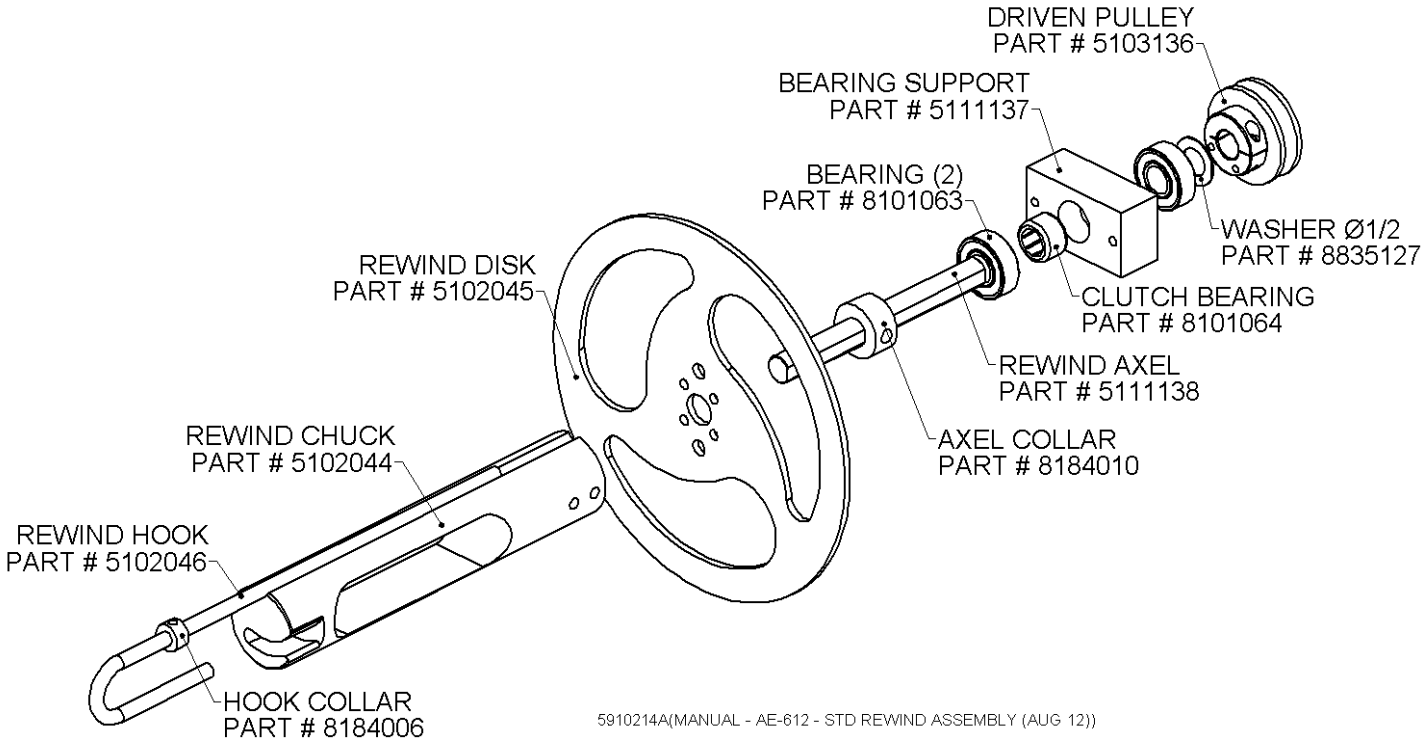
12.3.6 AE612MKII - Deflection & tension plate



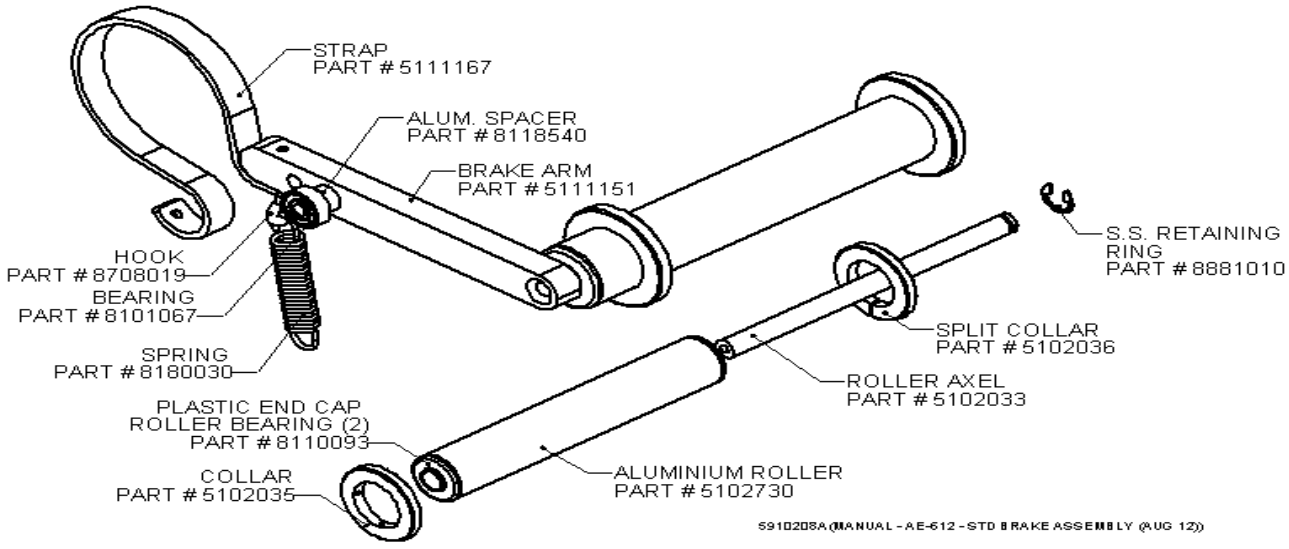
12.3.7 AE612MKII - Unwind roller



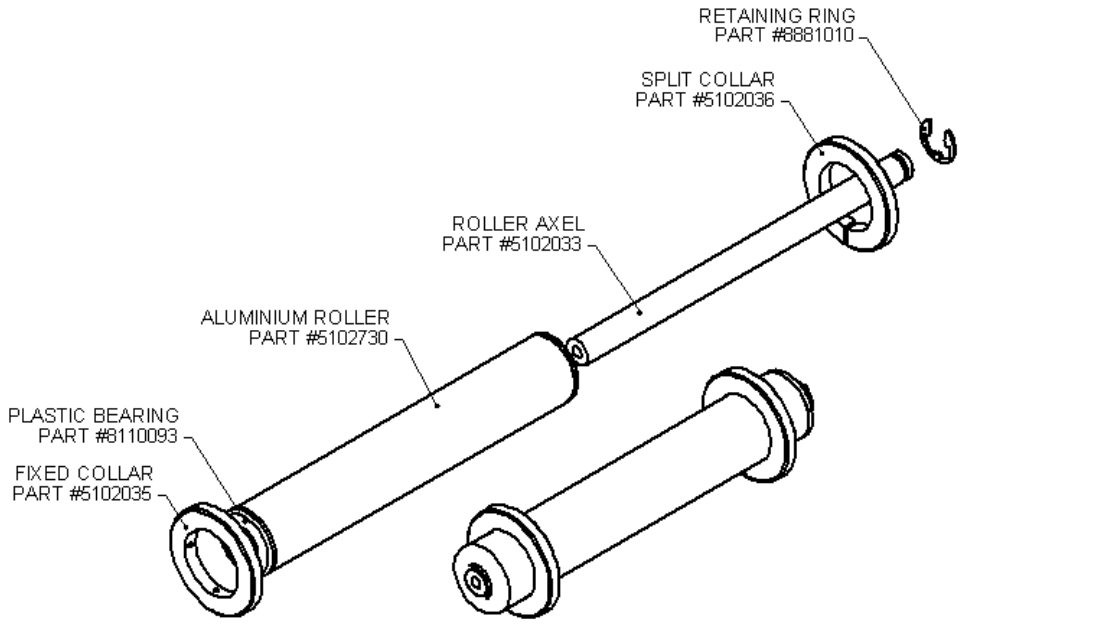
12.3.8 AE612MKII- Rewind roller



12.3.9 AE612MKII - Unwind brake

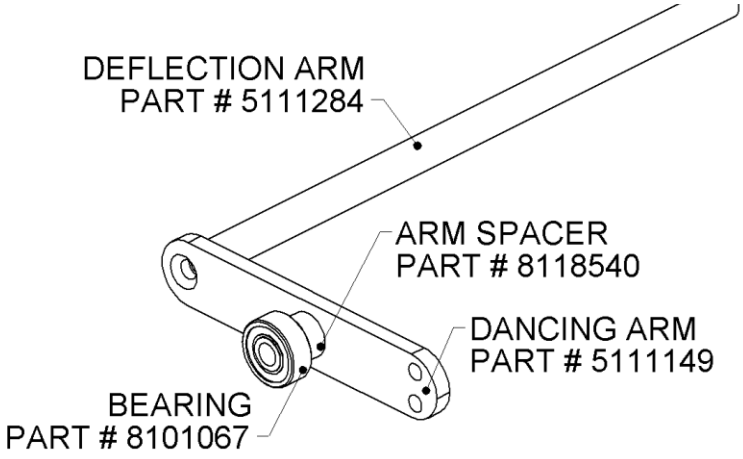


12.3.10 AE612MKII - Aluminum idler roller



5910211A(MANUAL - AE-612 - STD IDLER ROLLER ASSEMBLY (AUG 12))

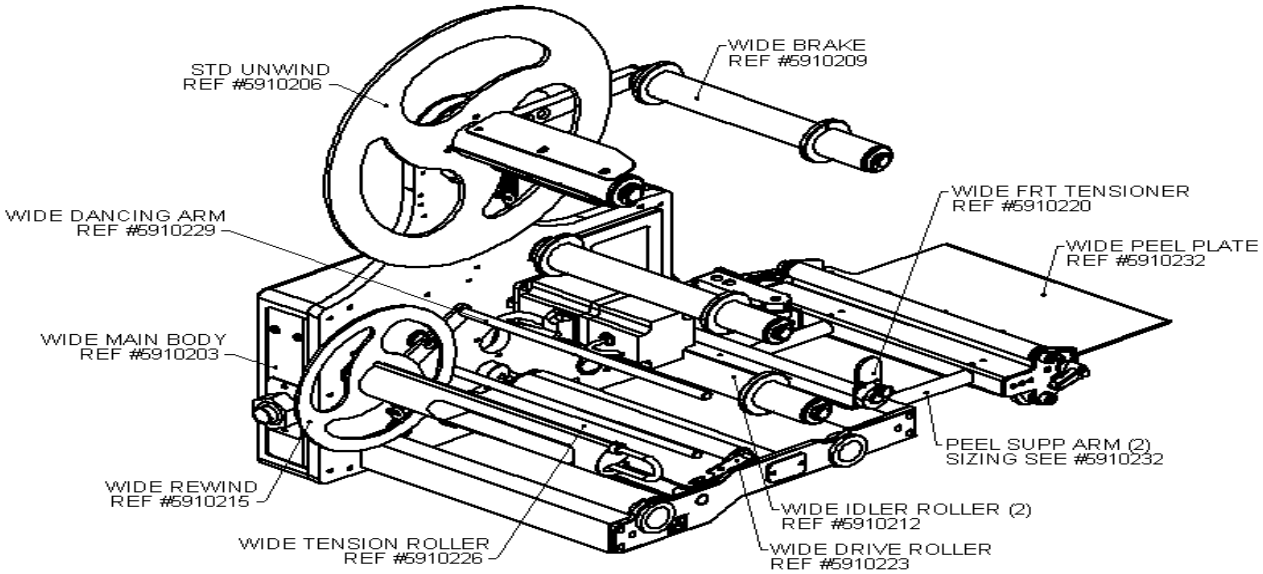
12.3.11 AE612MKII - Deflection ribbon arm



5910228A(MANUAL - AE-612 - STD DANCING ARM ASSEMBLY (AUG 12))

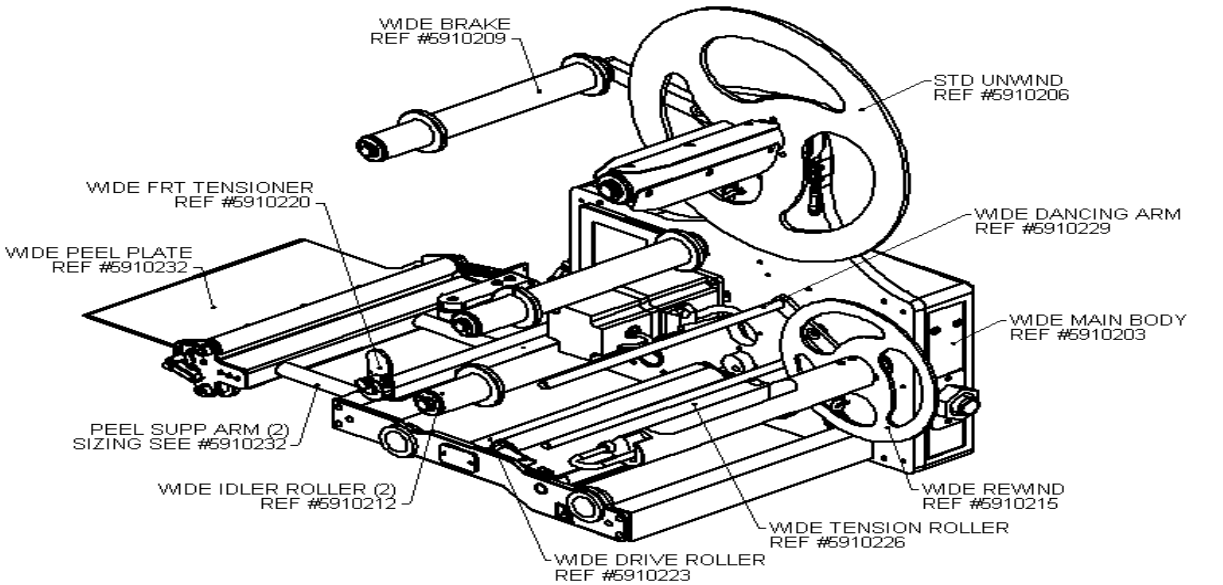
12.4 AE612MKII WIDE - Overview wide labeler head (right & left hand)

RIGHT HAND



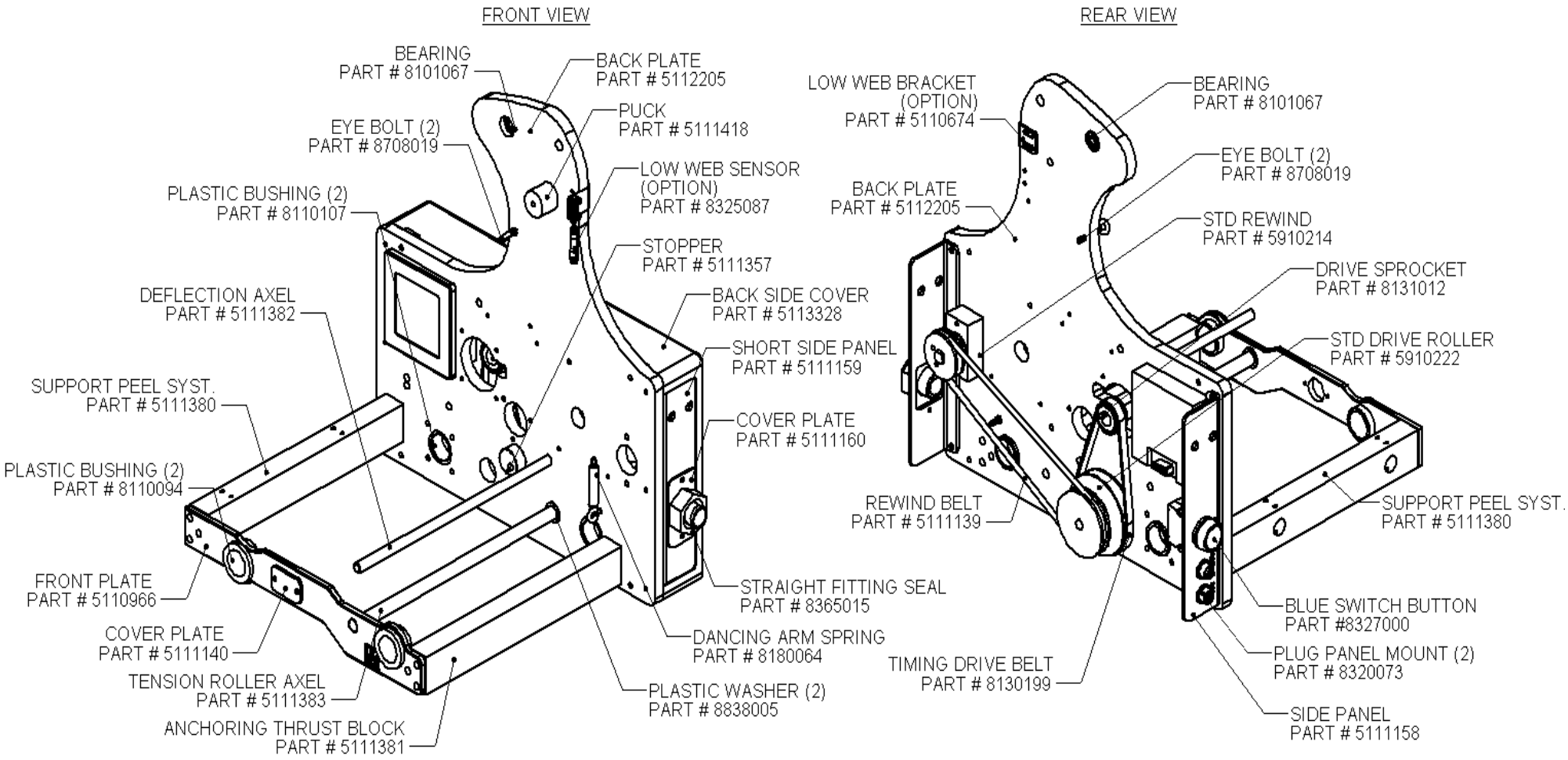
5910002A(MANUAL- AE-612 - GENERAL VIEW WIDE AE-612 MKII RIGHT HAND (AUG 12))

LEFT HAND



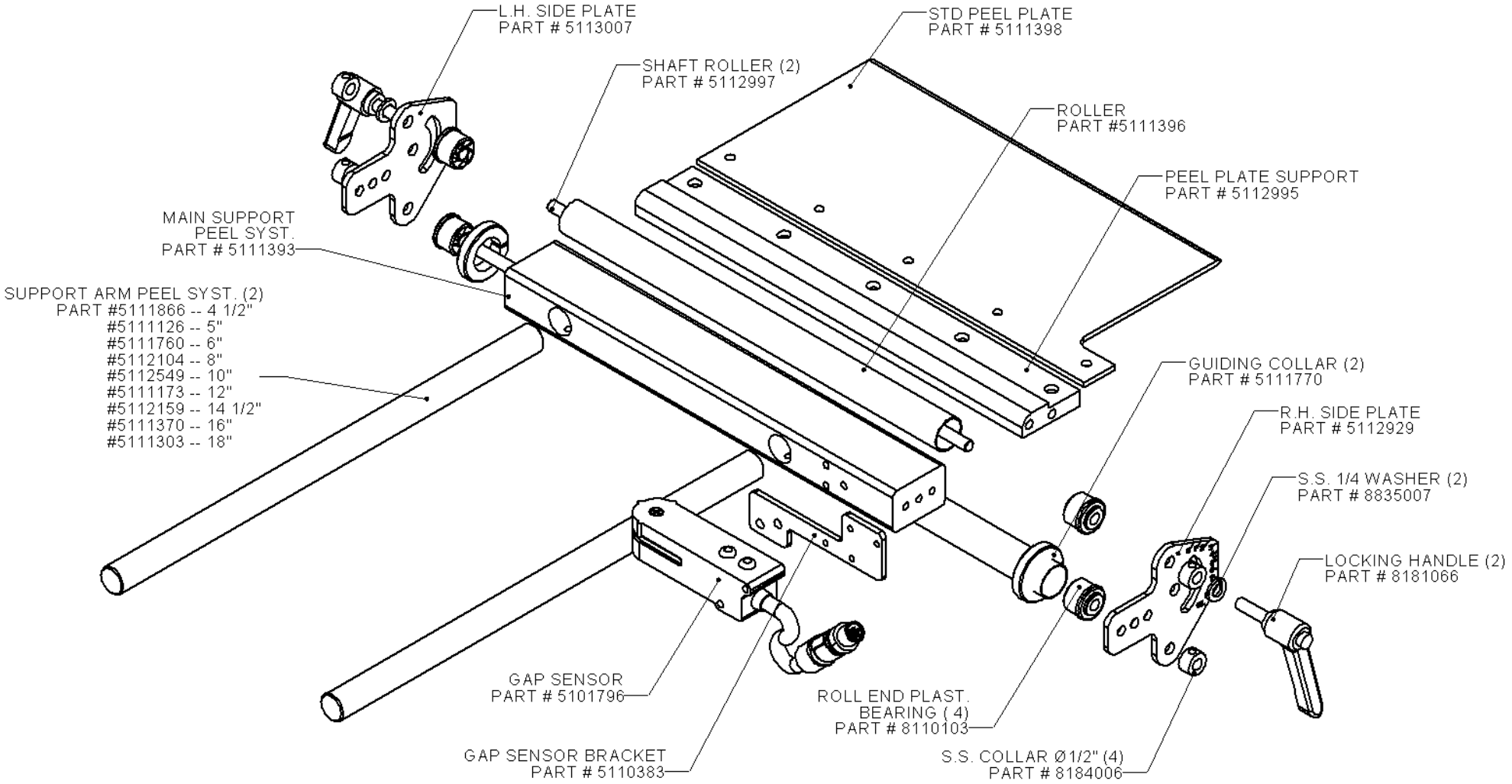
5910003A(MANUAL- AE-612 - GENERAL VIEW WIDE AE-612 MKII LEFT HAND (AUG 12))

12.4.2 AE612MKII WIDE - Main body & accessories.



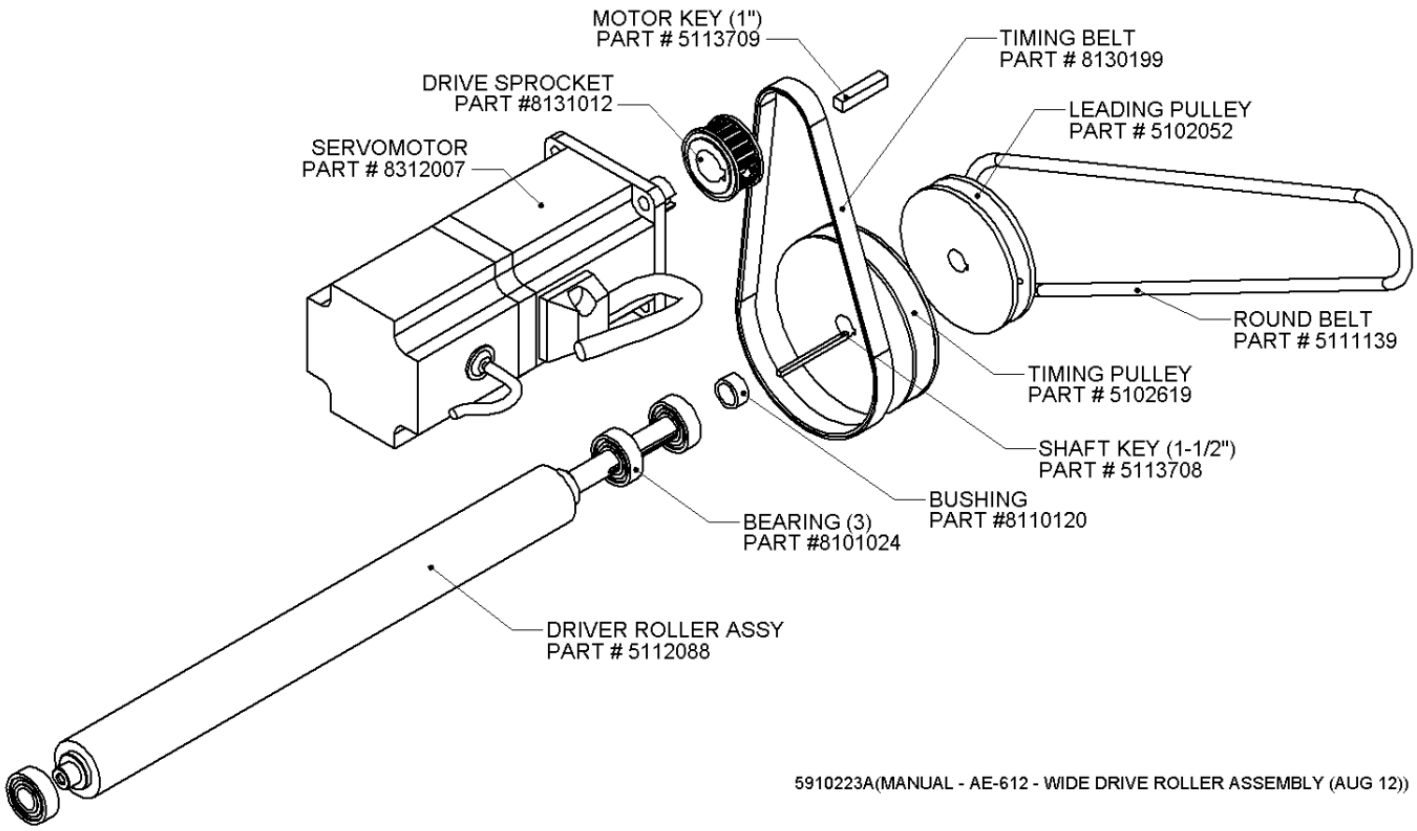
5910203A(MANUAL - AE-612 - WIDE MAIN BODY OVERVIEW (AUG 12))

12.4.4 AE612MKII WIDE - Peel plate assy



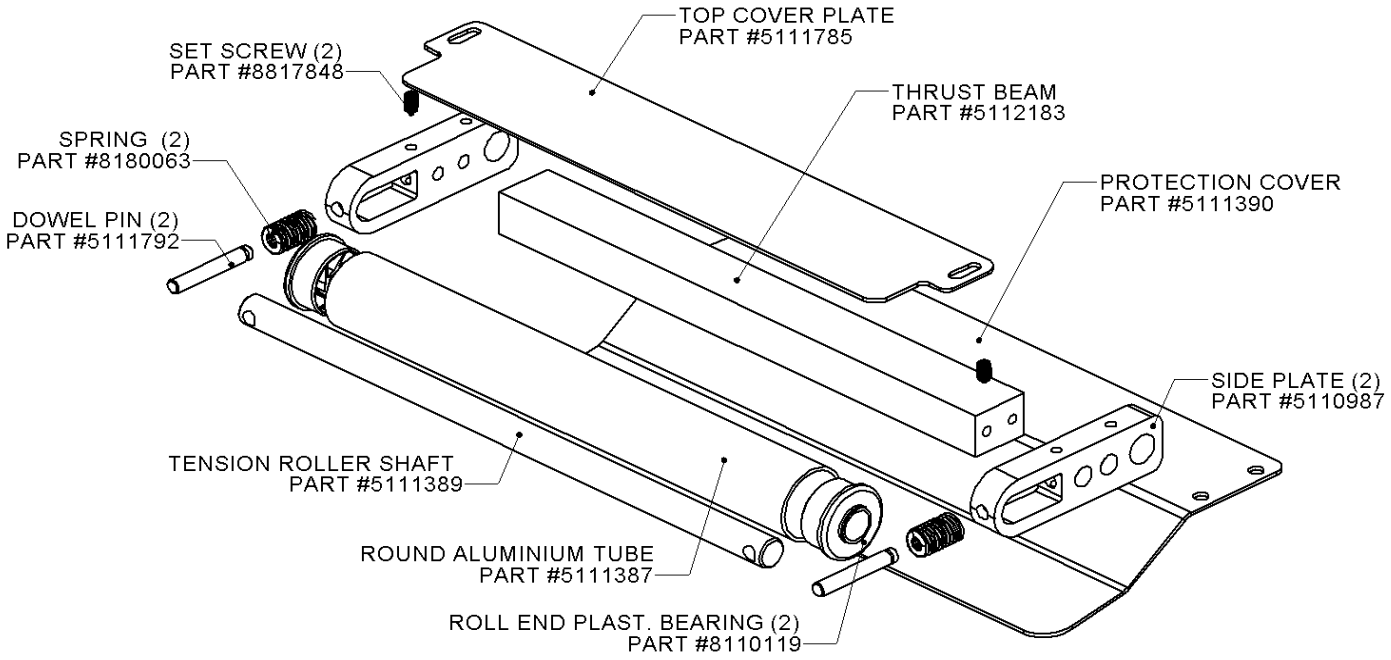
5910232A(MANUAL - AE-612 - WIDE PEEL PLATE ASSEMBLY (AUG 12))

12.4.6 AE612MKII WIDE - Driver roller & motor assy



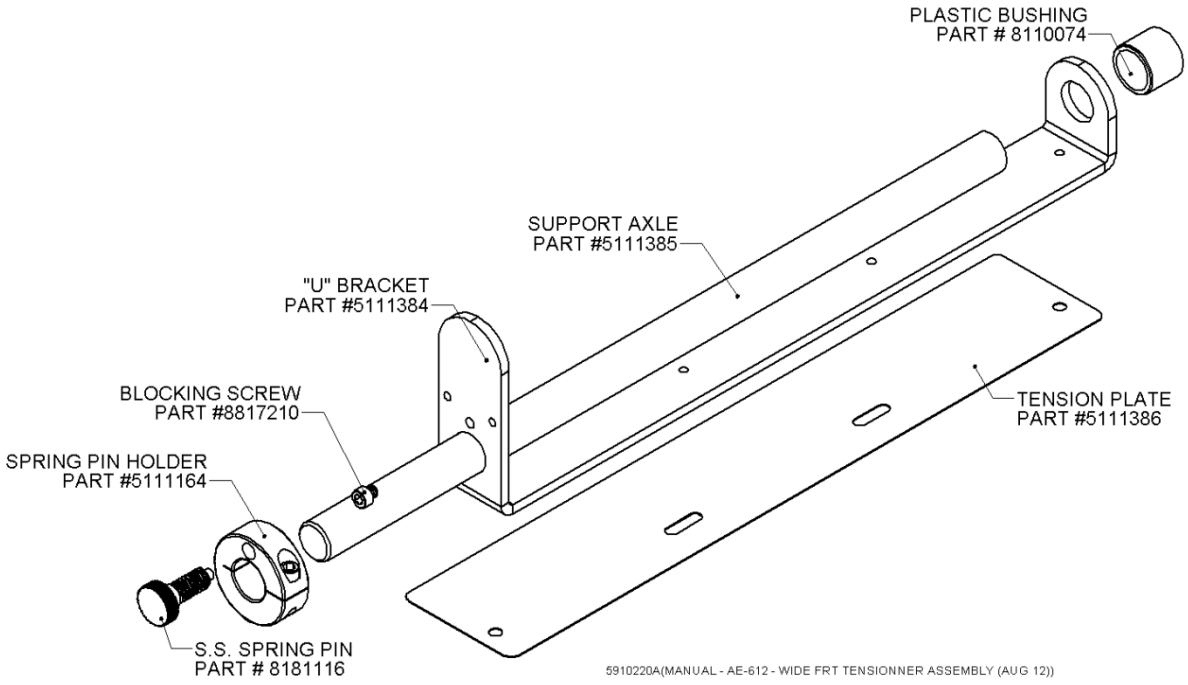
5910223A(MANUAL - AE-612 - WIDE DRIVE ROLLER ASSEMBLY (AUG 12))

12.4.7 AE612MKII WIDE - Guard & tension roller

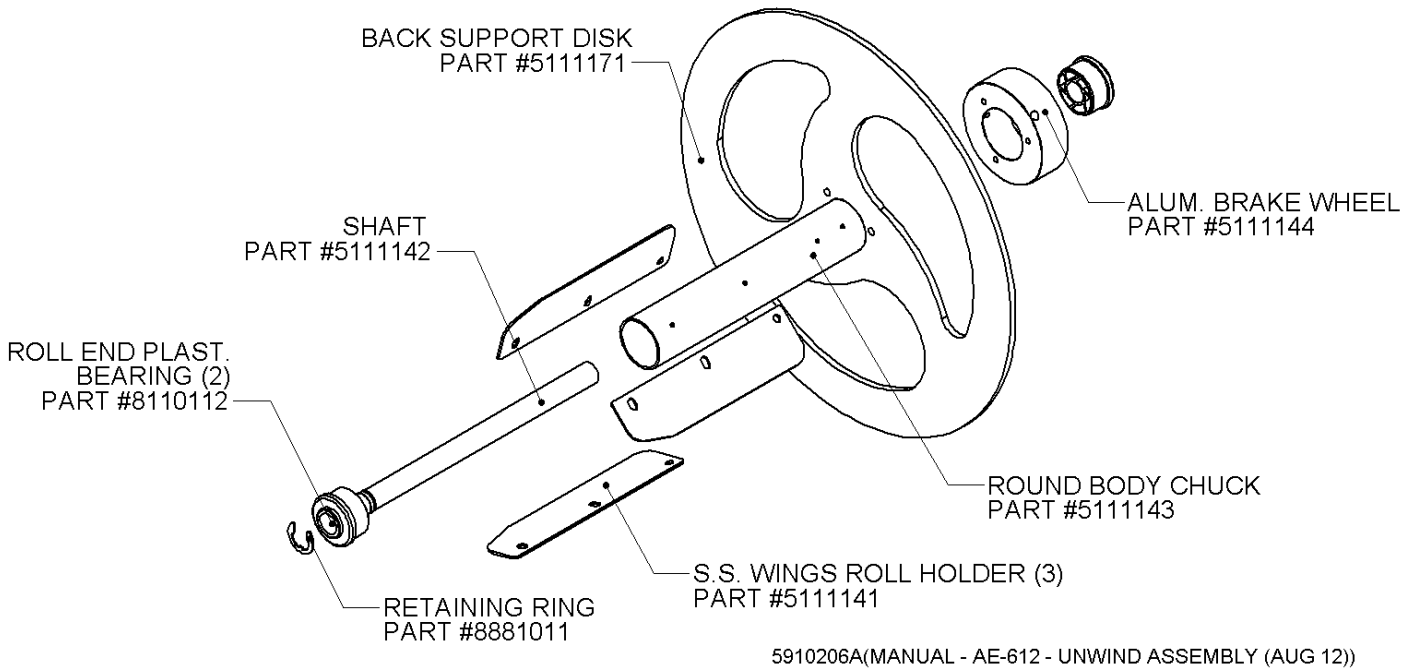


5910226A(MANUAL - AE-612 - WIDE TENSION ROLLER ASSEMBLY (AUG 12))

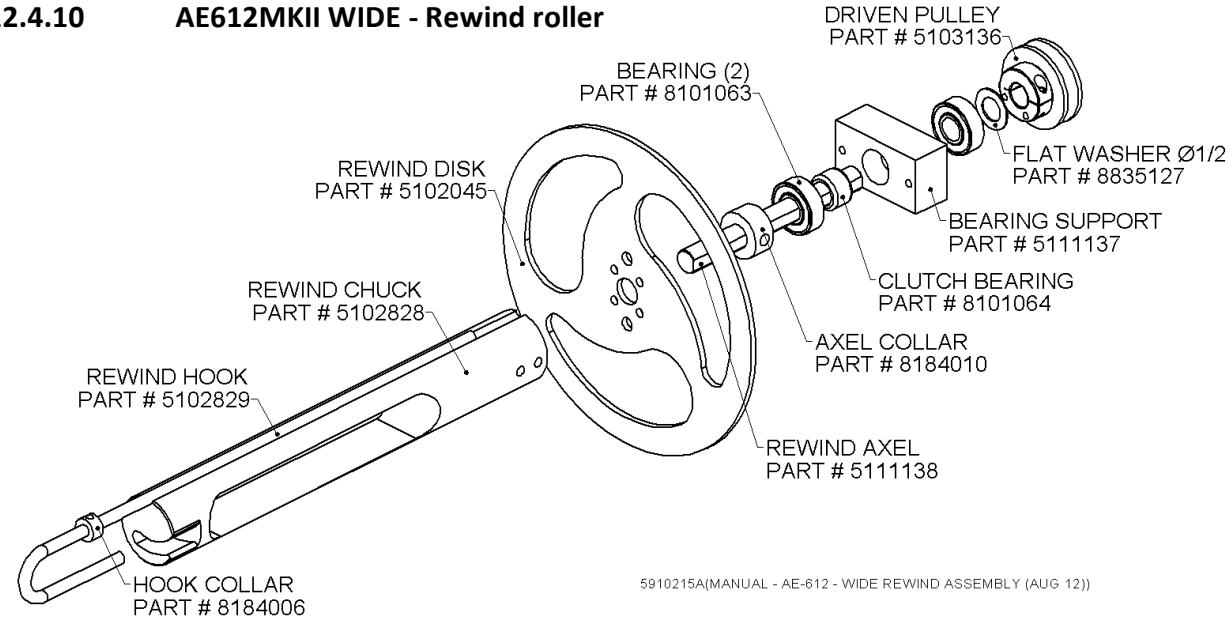
12.4.8 AE612MKII WIDE - Deflection & tension plate



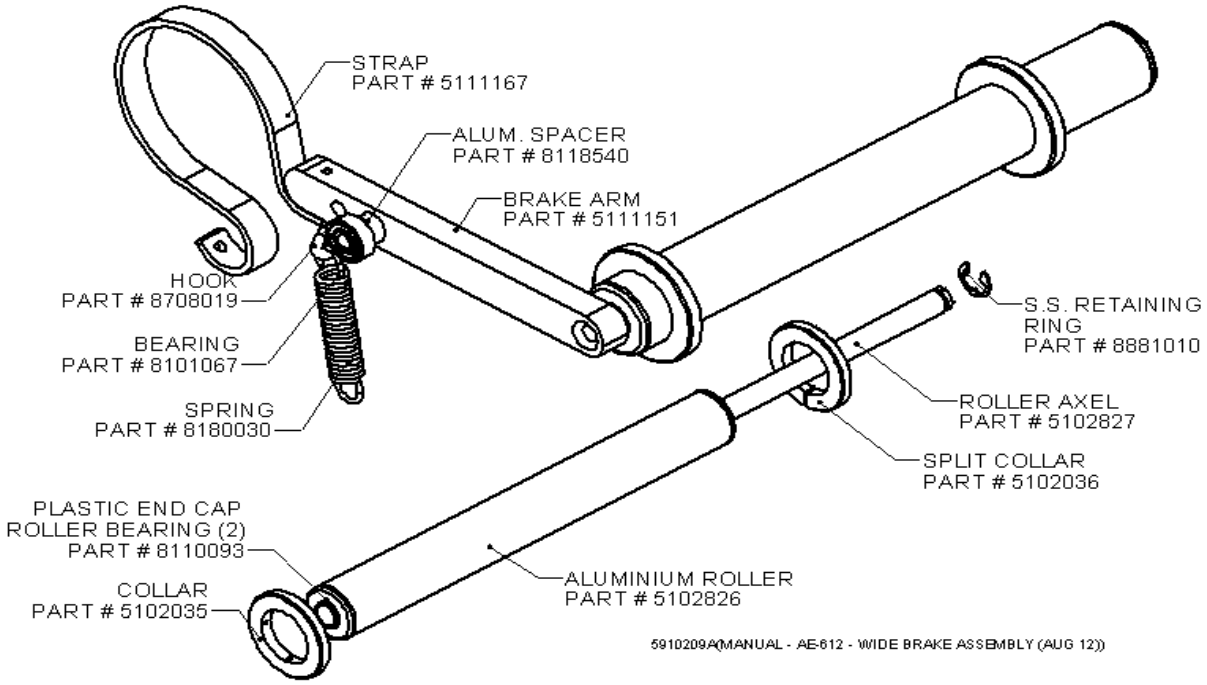
12.4.9 AE612MKII WIDE - Unwind roller



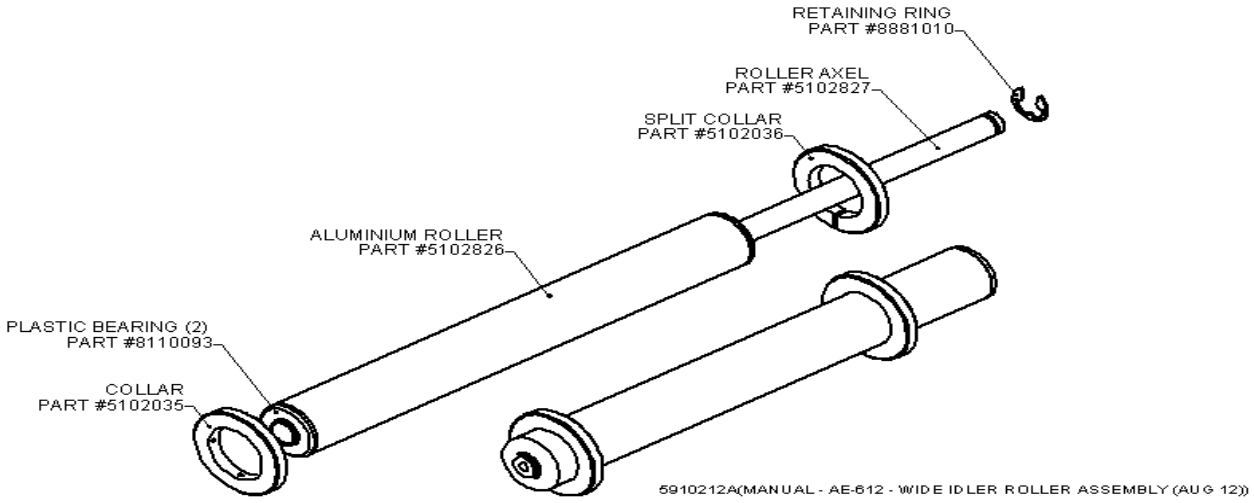
12.4.10 AE612MKII WIDE - Rewind roller



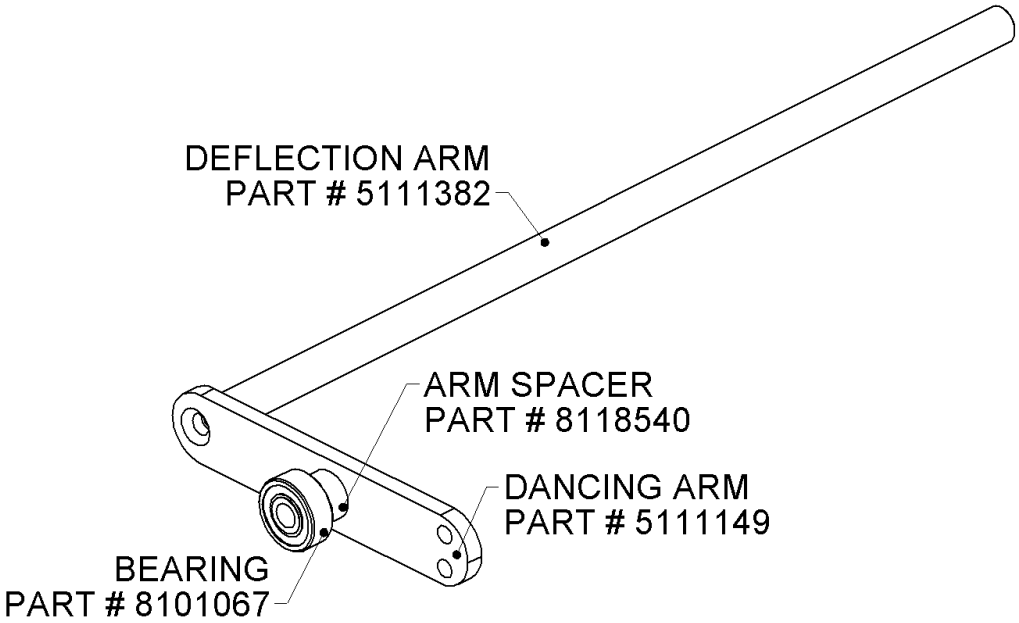
12.4.11 AE612MKII WIDE - Unwind brake



12.4.12 AE612MKII WIDE - Aluminum idler roller



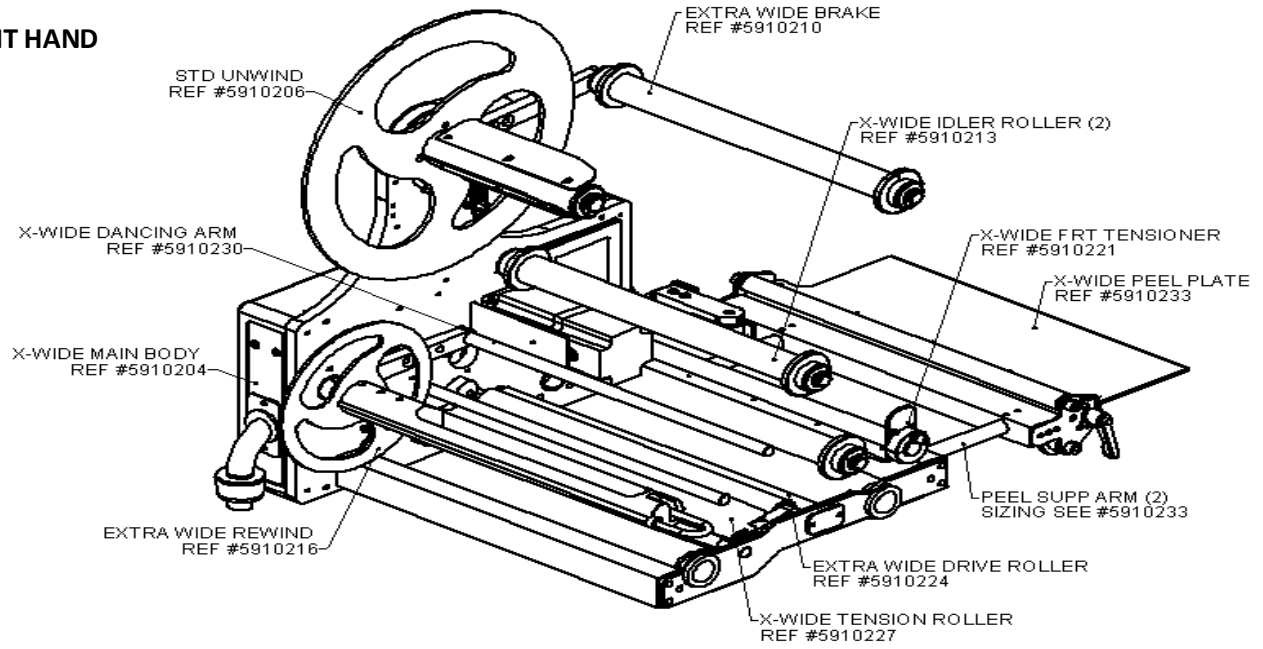
12.4.13 AE612MKII WIDE - Deflection ribbon arm



5910229A(MANUAL - AE-612 - WIDE DANCING ARM ASSEMBLY (AUG 12))

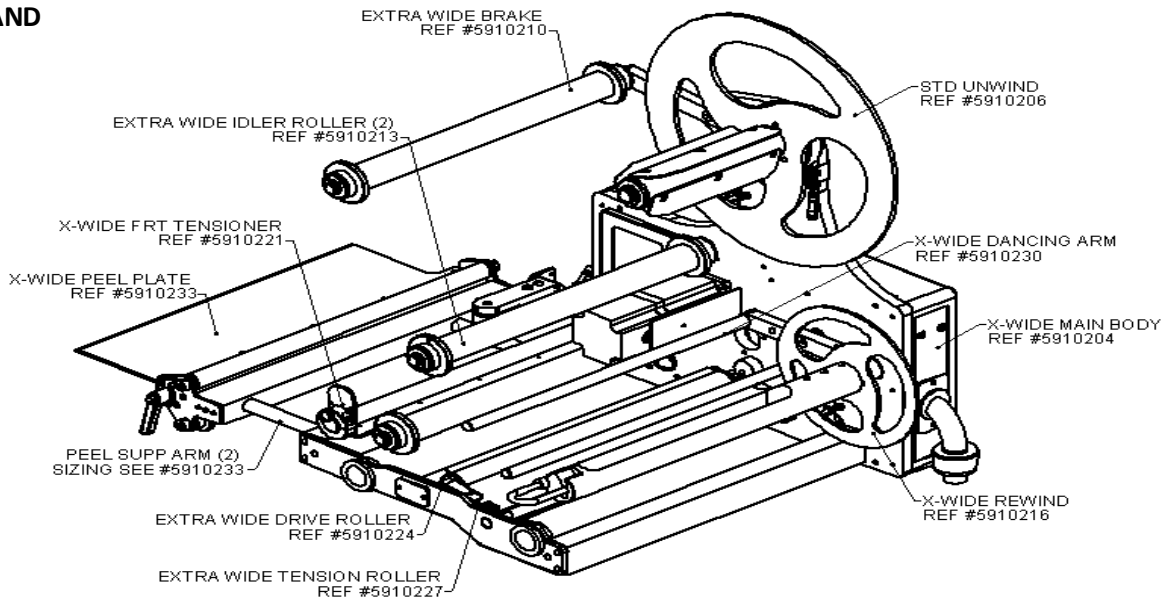
12.5 AE612MKII Extra-wide labeler head (right & left hand)

RIGHT HAND



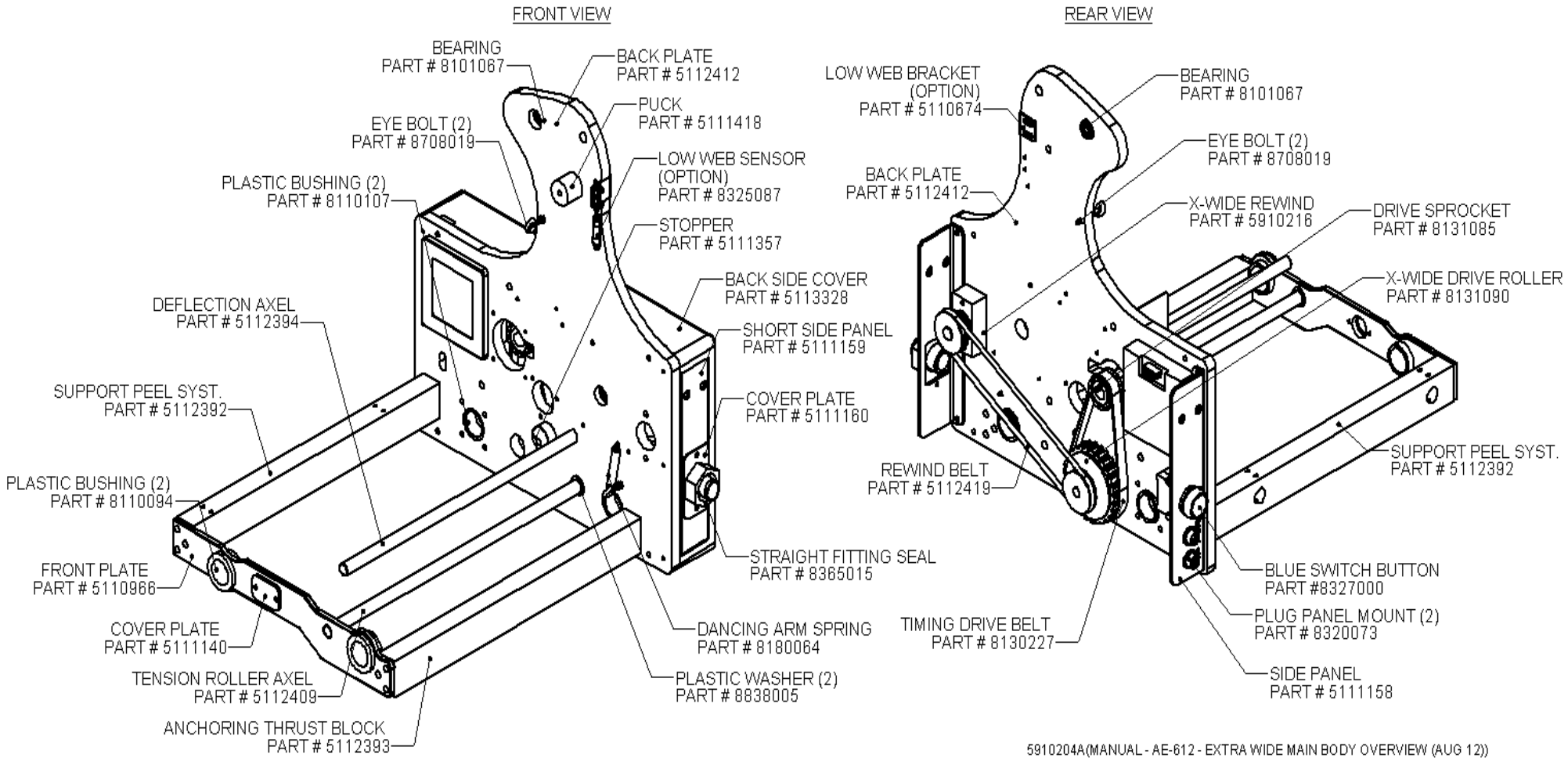
5910004A(MANUAL- AE-612 - GENERAL VIEW X-WIDE AE-612 MKII RIGHT HAND (AUG 12))

LEFT HAND

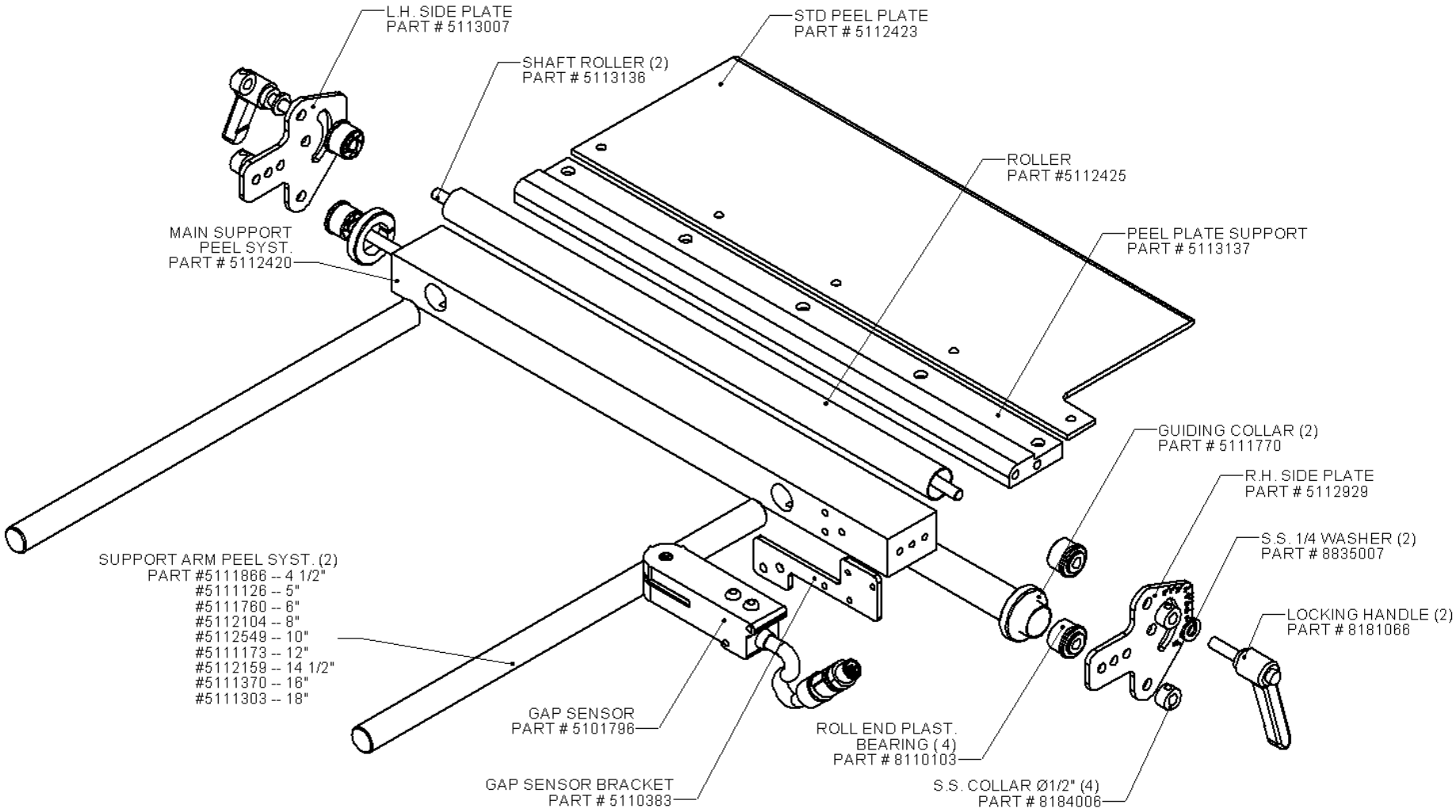


5910005A(MANUAL- AE-612 - GENERAL VIEW X-WIDE AE-612 MKII LEFT HAND (AUG 12))

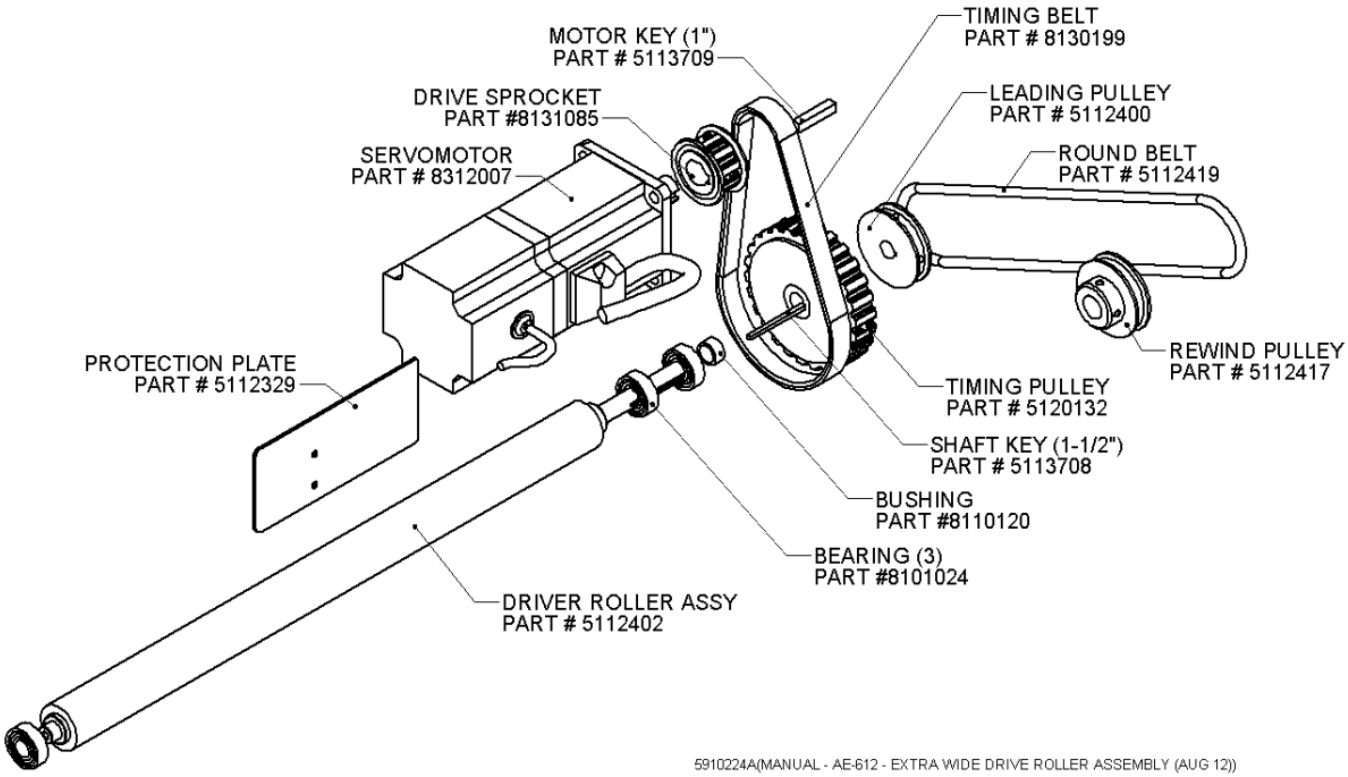
12.5.1 AE612MKII Extra-wide Main body & accessories



12.5.2 AE612MKII Extra-wide Peel plate assy

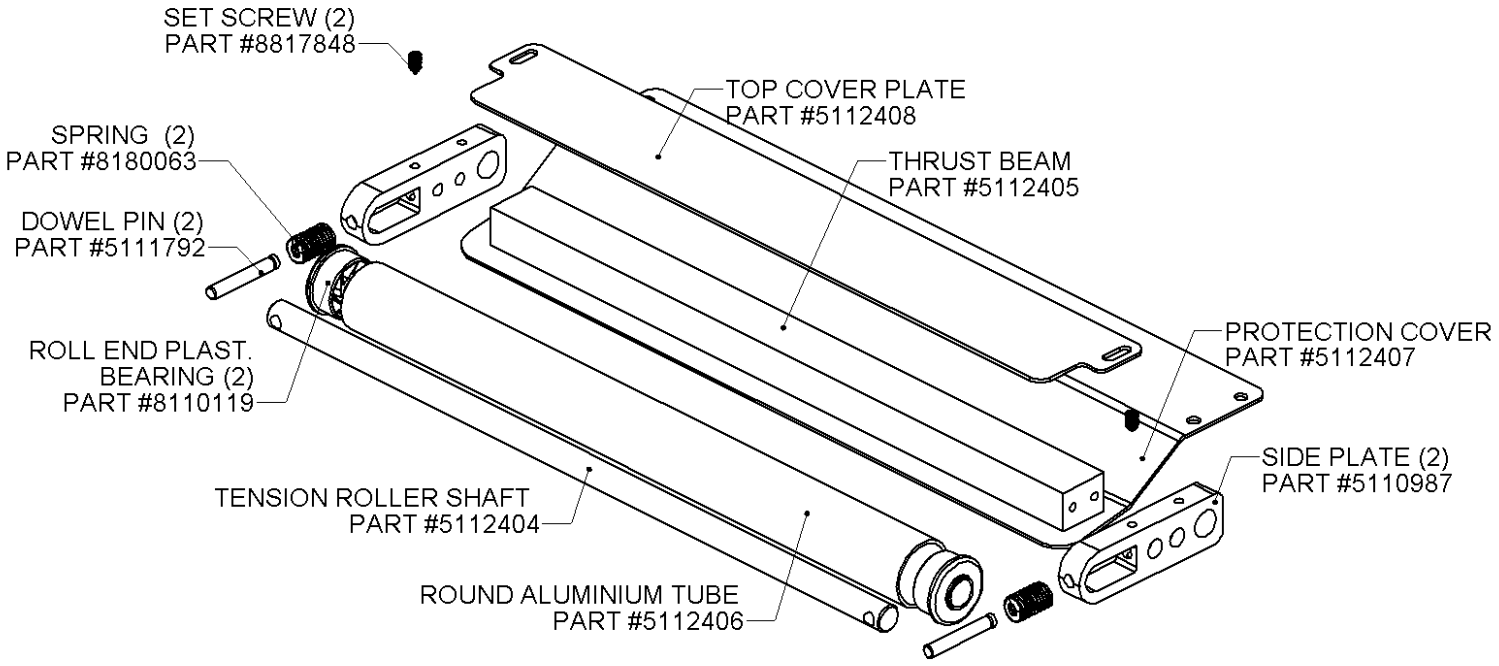


12.5.3 AE612MKII Extra-wide Driver roller & motor assy



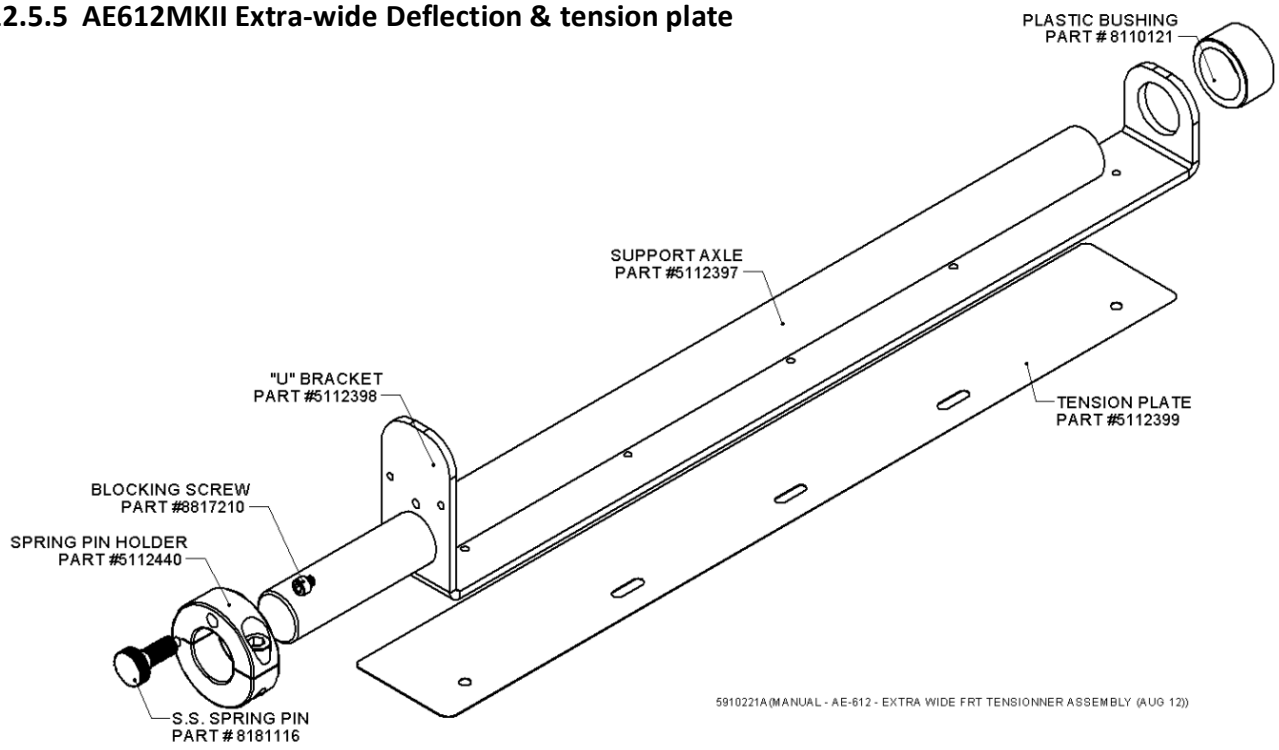
5910224A(MANUAL - AE-612 - EXTRA WIDE DRIVE ROLLER ASSEMBLY (AUG 12))

12.5.4 AE612MKII Extra-Wide Guard & tension roller

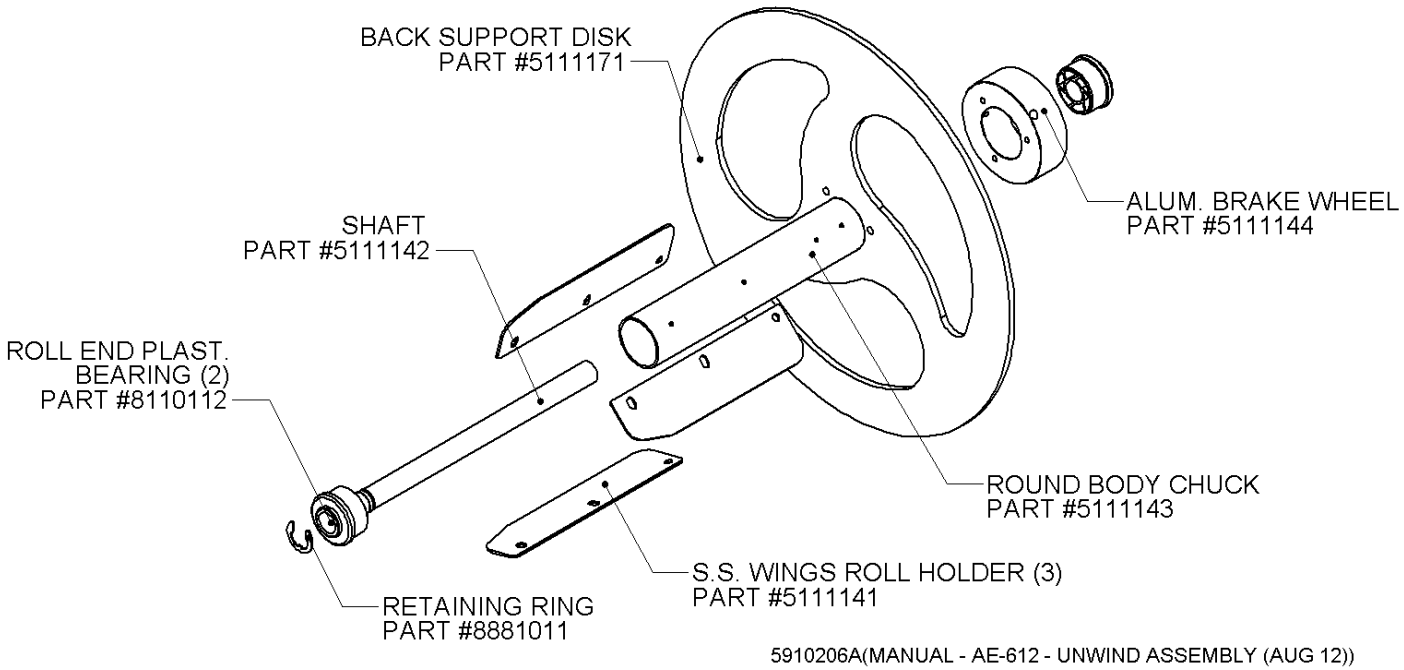


5910227A(MANUAL - AE-612 - EXTRA WIDE TENSION ROLLER ASSEMBLY (AUG 12))

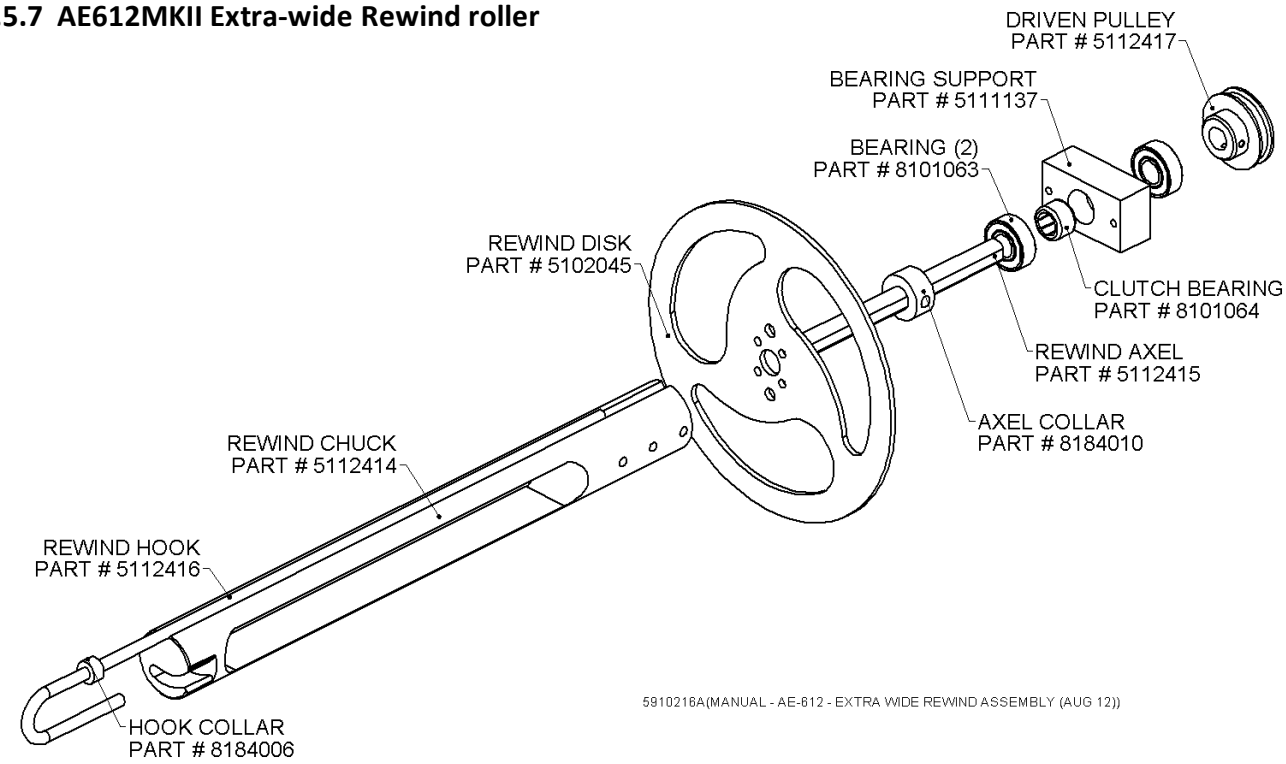
12.5.5 AE612MKII Extra-wide Deflection & tension plate



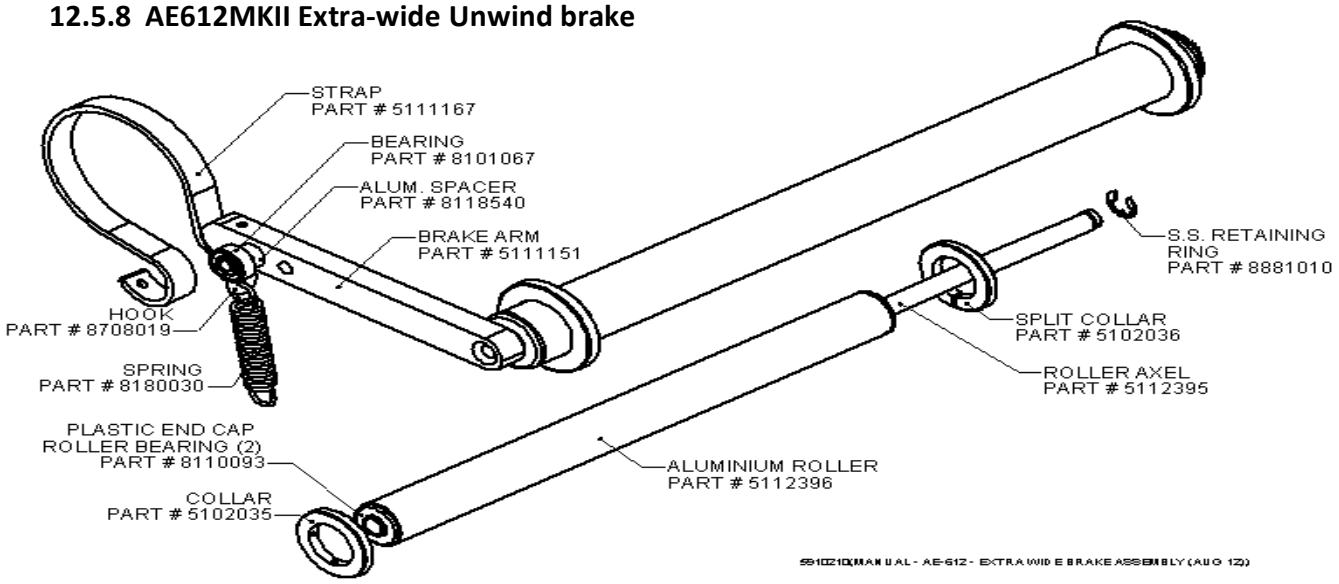
12.5.6 AE612MKII Extra-wide - Unwind roller



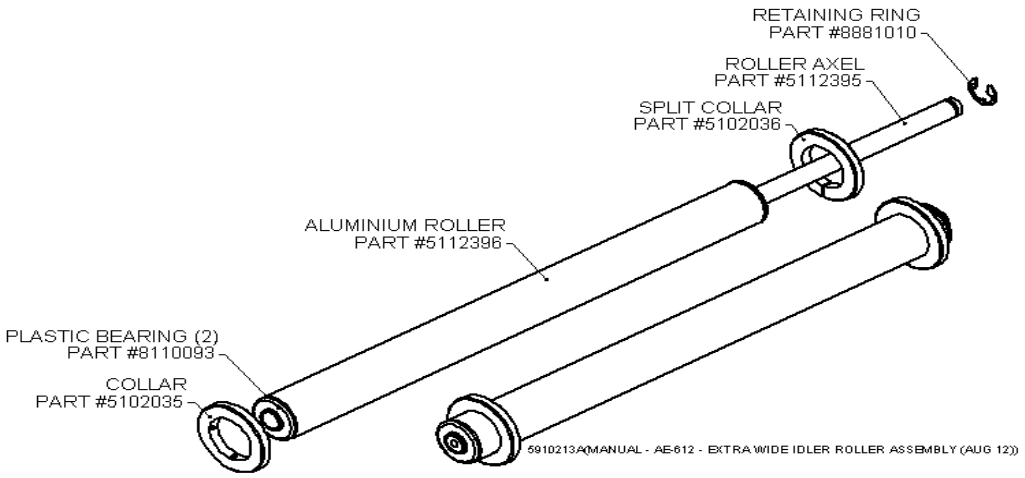
12.5.7 AE612MKII Extra-wide Rewind roller



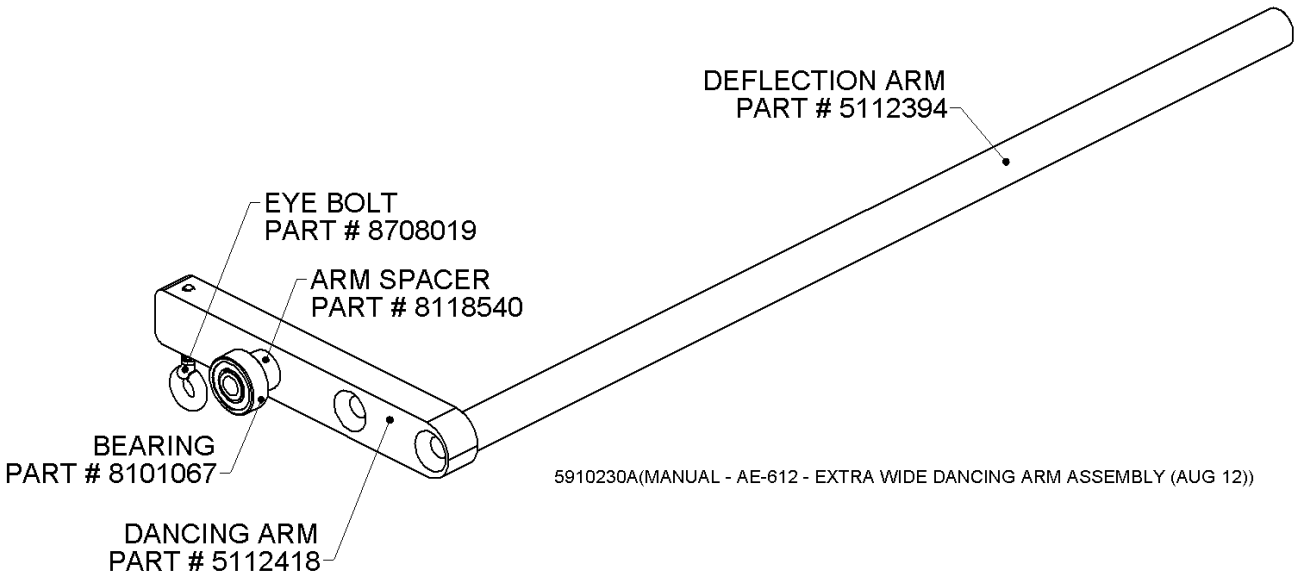
12.5.8 AE612MKII Extra-wide Unwind brake



12.5.9 AE612MKII Extra-wide Aluminum idler roller

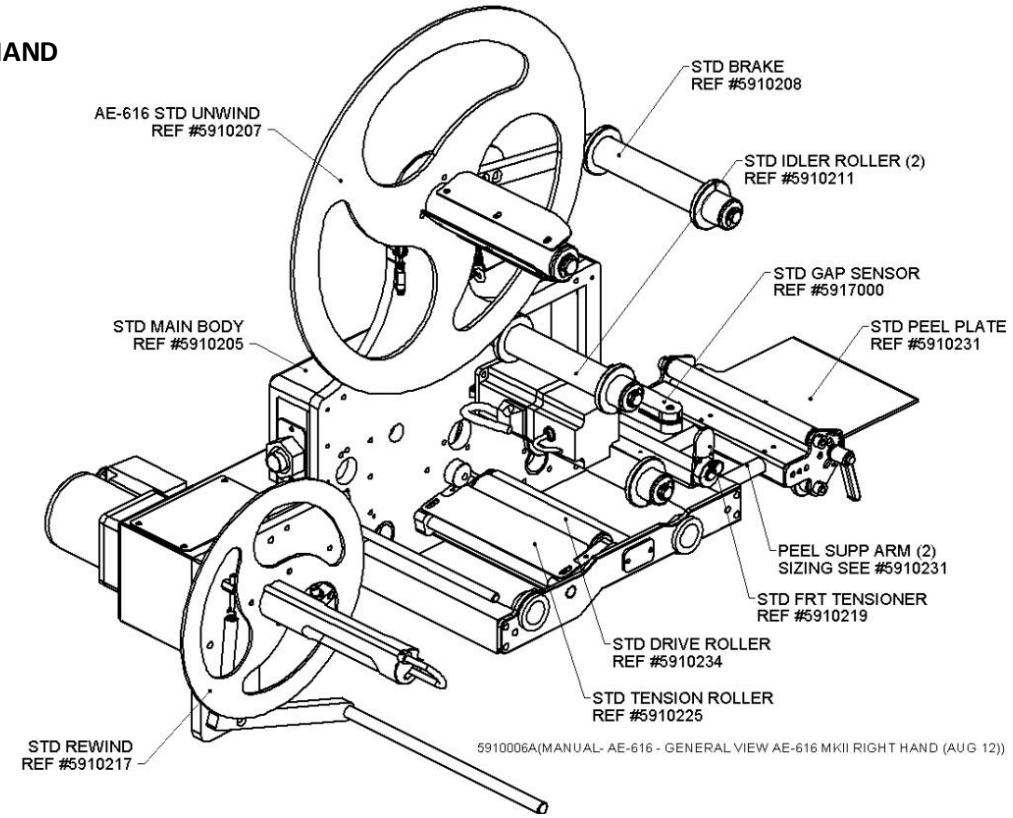


12.5.10 AE612MKII Extra-wide Deflection ribbon arm

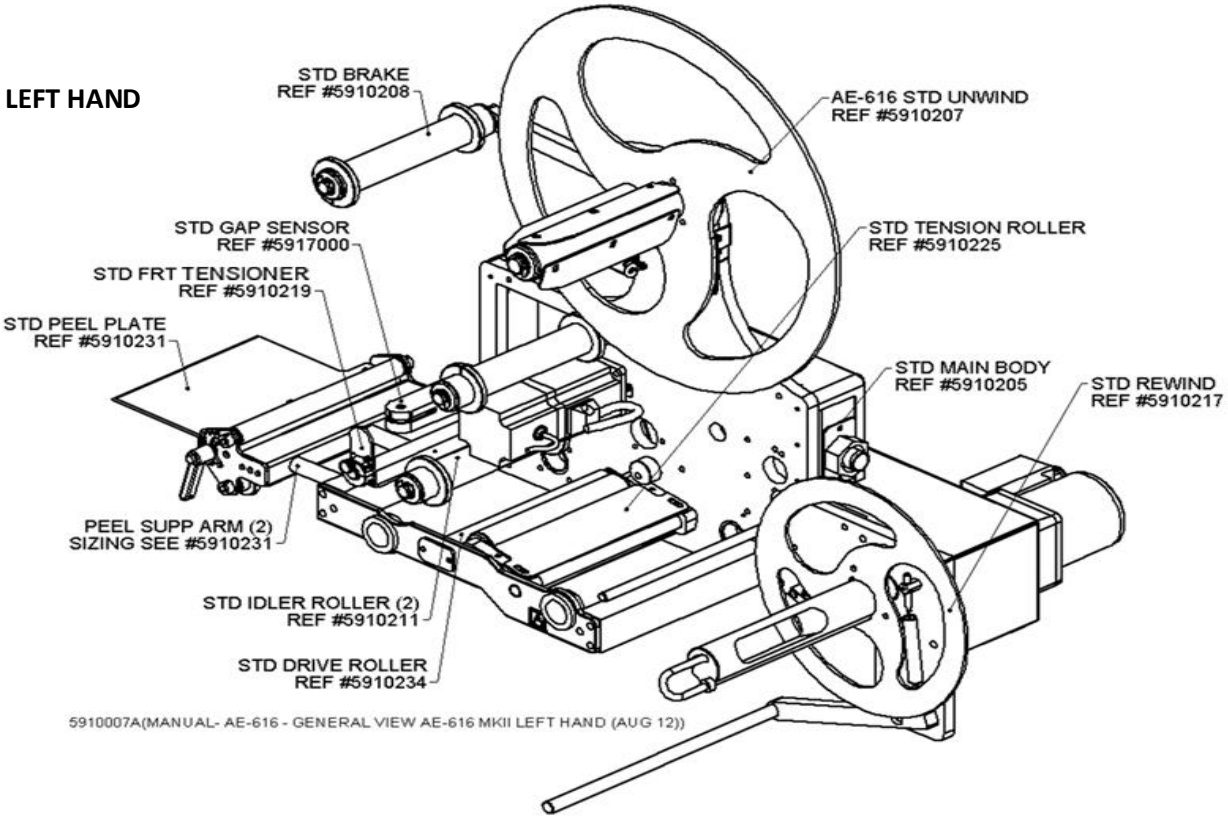


12.6 AE-616MKII Motorized labeler head (right & left hand)

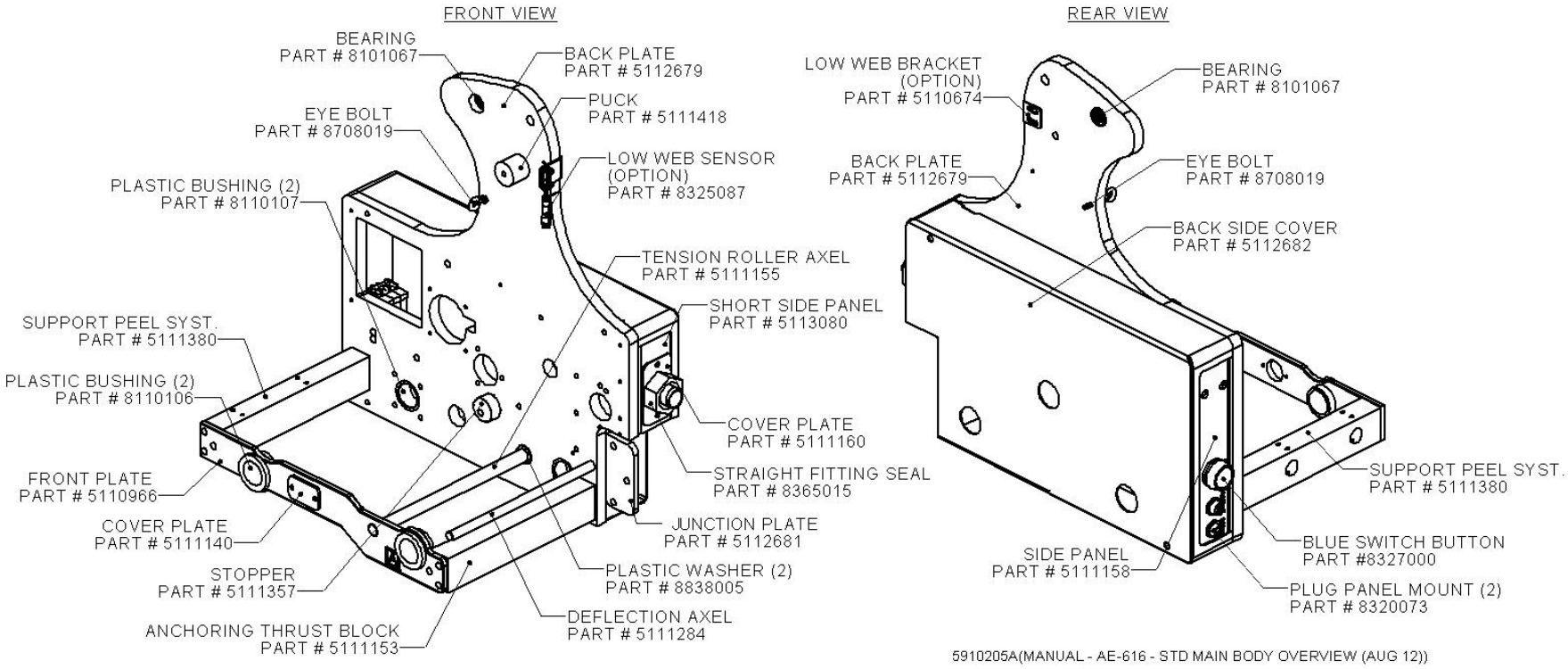
RIGHT HAND



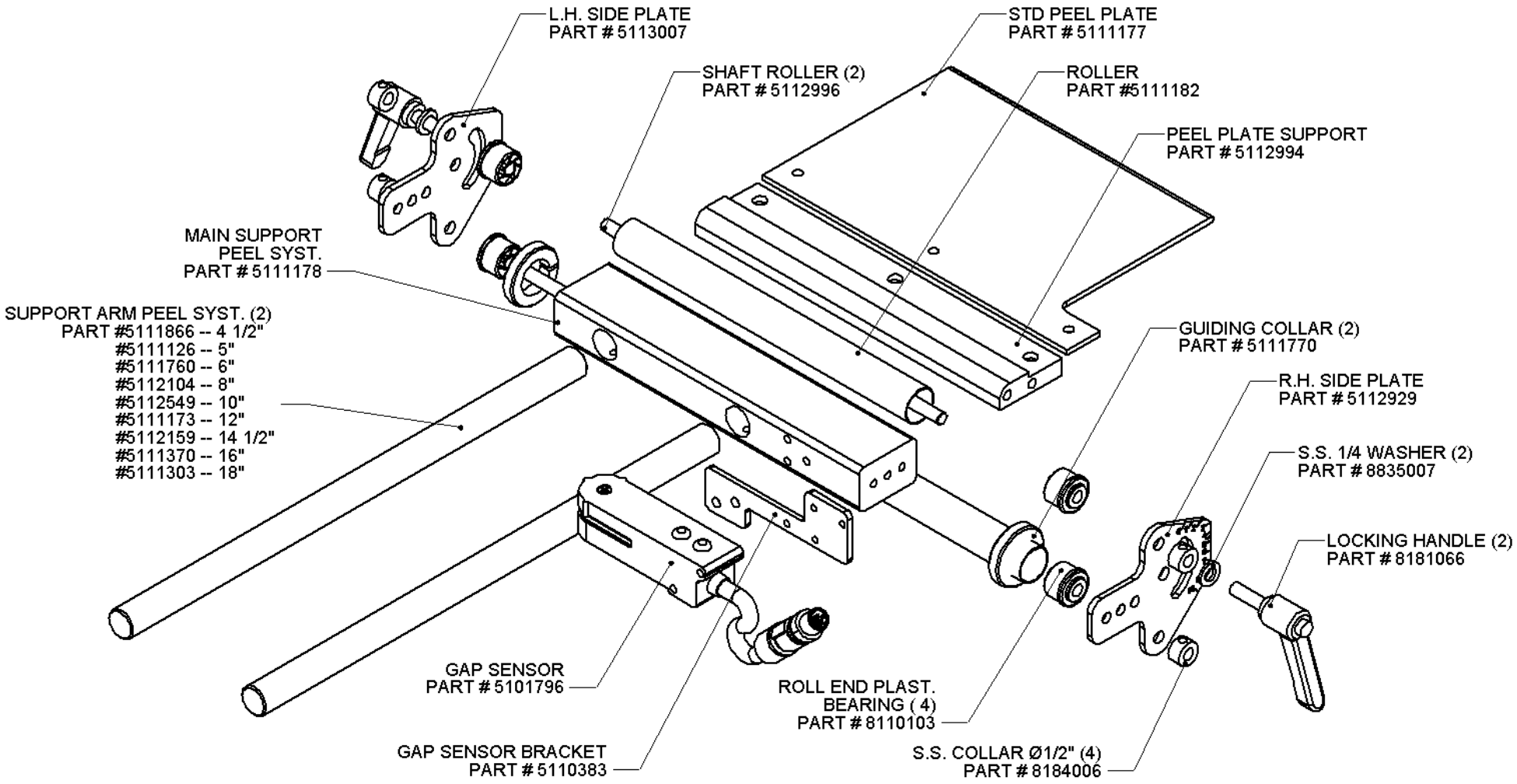
LEFT HAND



12.6.1 AE-616MKII Motorized - labeler main body & accessories

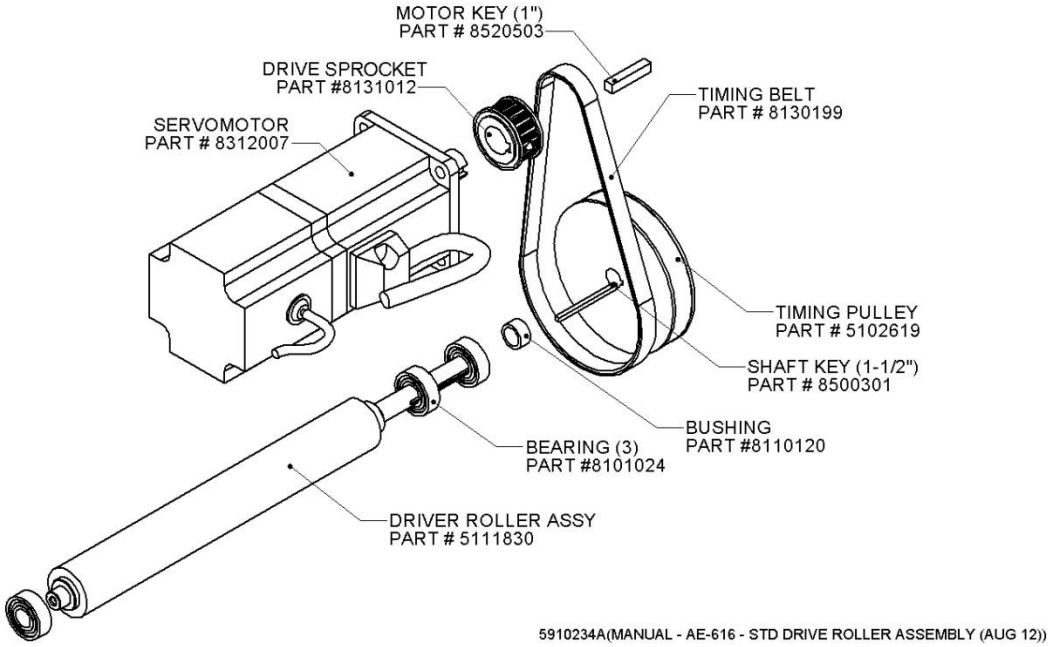


12.6.2 AE616MKII Motorized – labeler - Peel plate assy

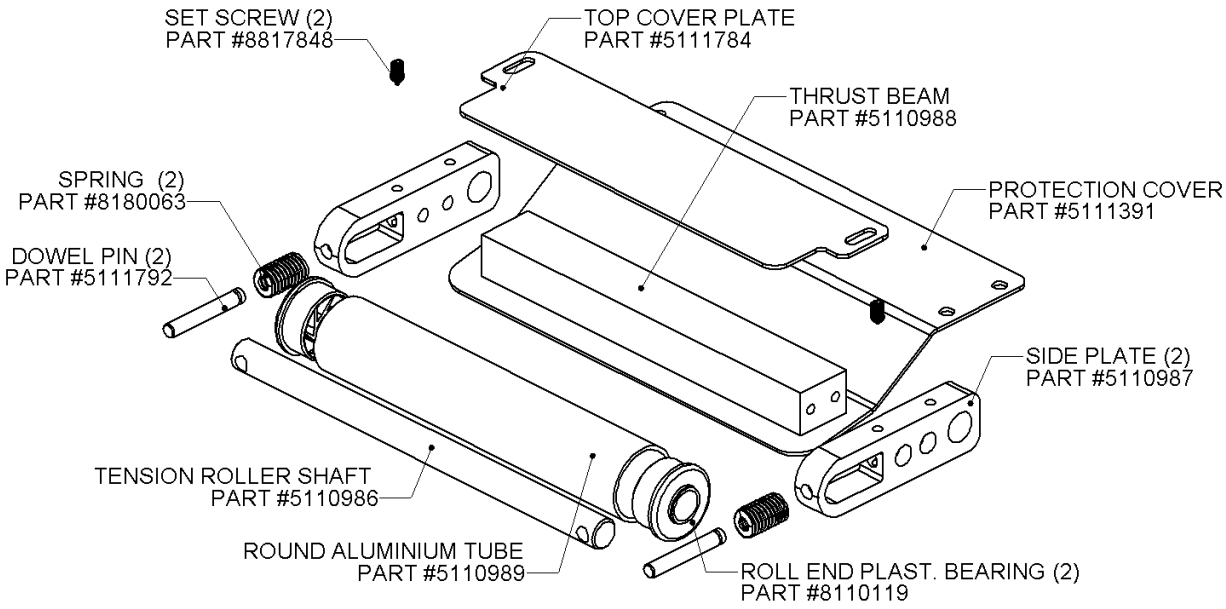


5910231A(MANUAL - AE-612 - STD PEEL PLATE ASSEMBLY (AUG 12))

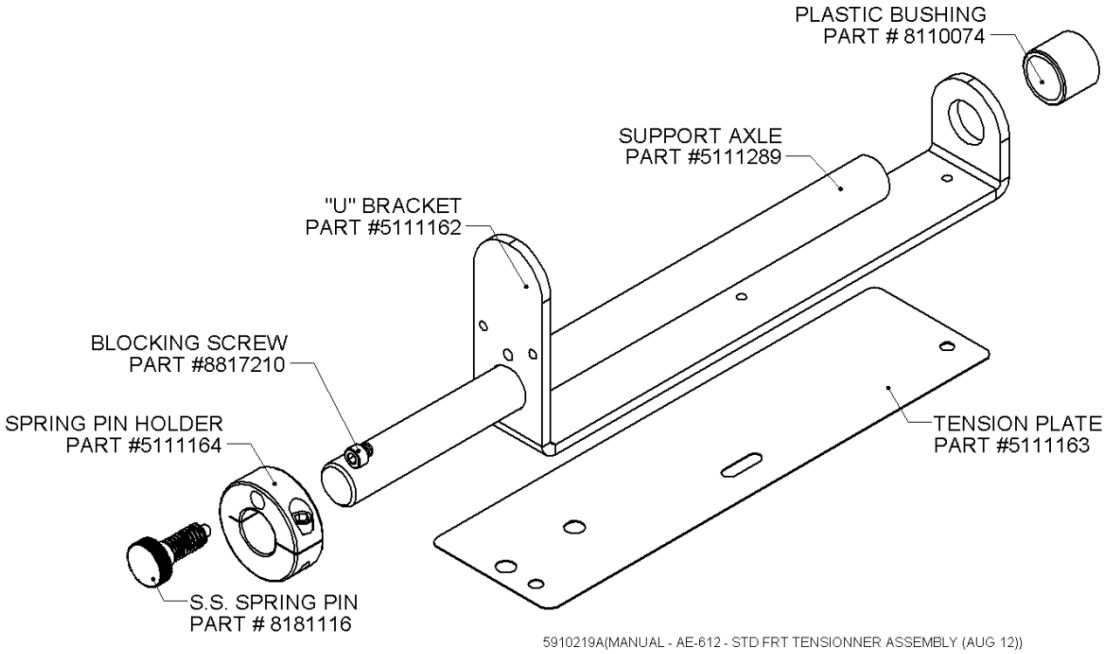
12.6.3 AE-616MKII Motorized - labeler driver roller & motor assy



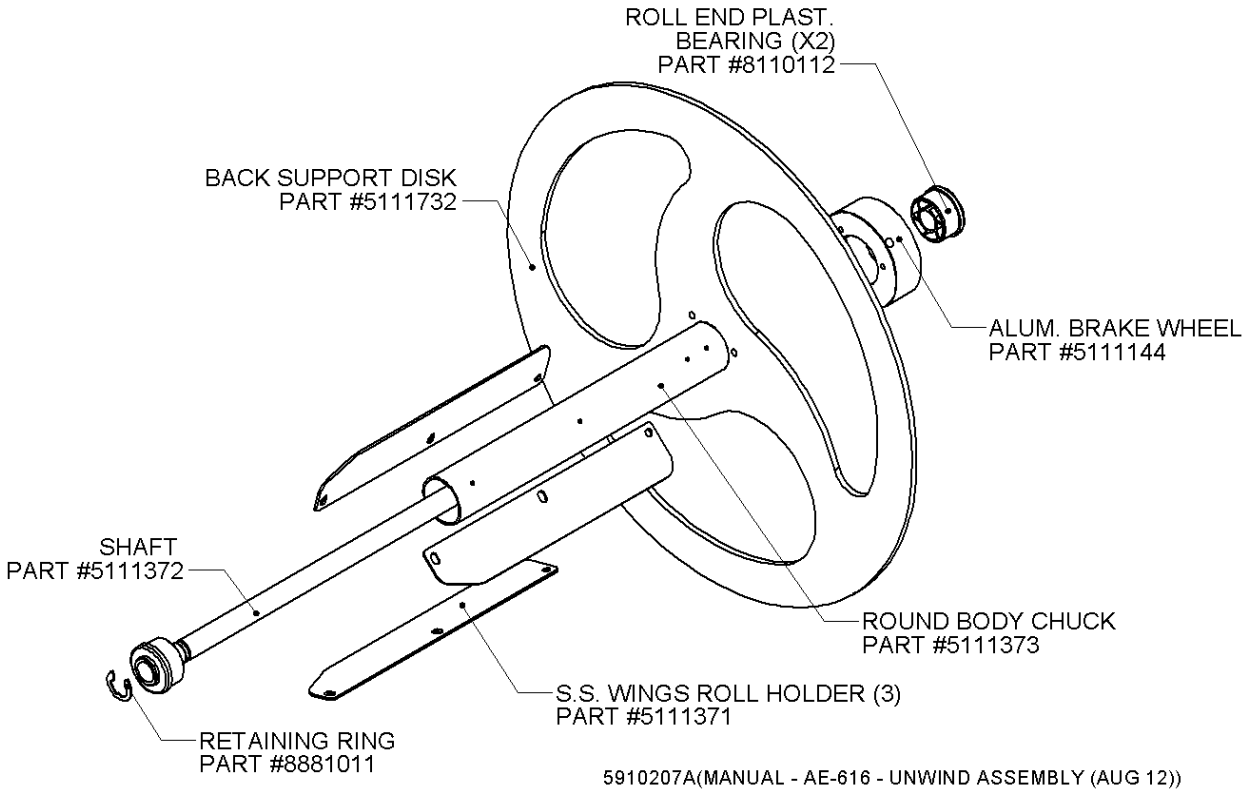
12.6.4 AE616MKII Motorized - Guard & tension roller



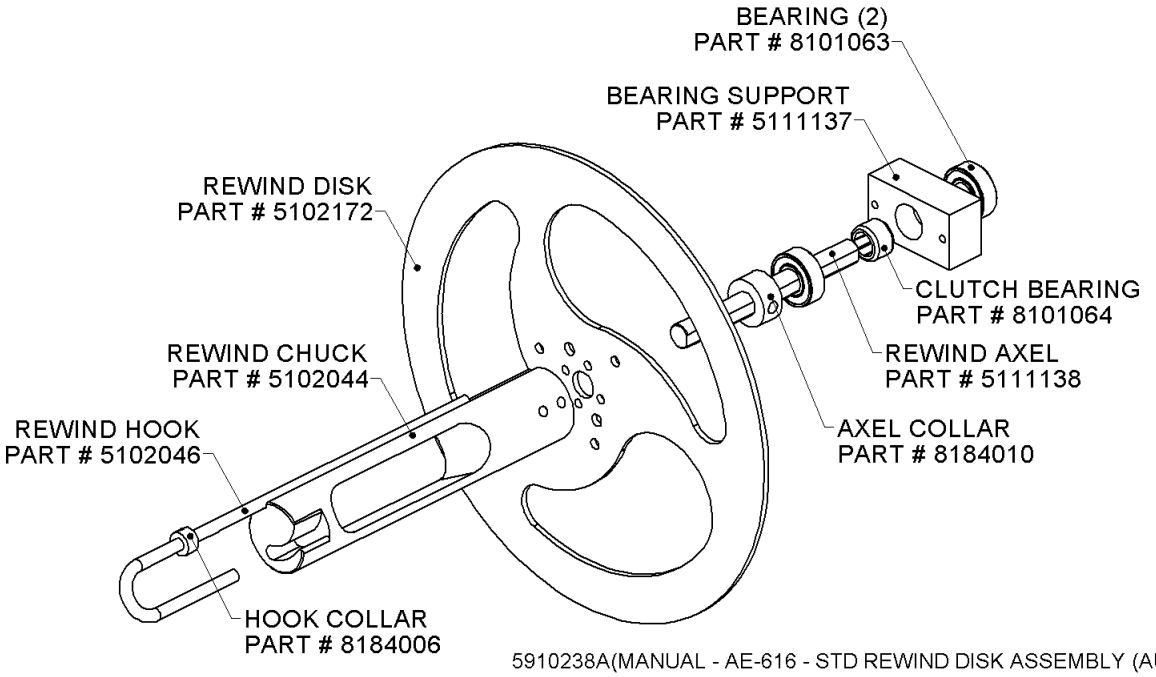
12.6.5 AE616MKII Motorized - deflection & tension plate



12.6.6 AE616MKII Motorized Labeler head - Ø16" Unwind roller

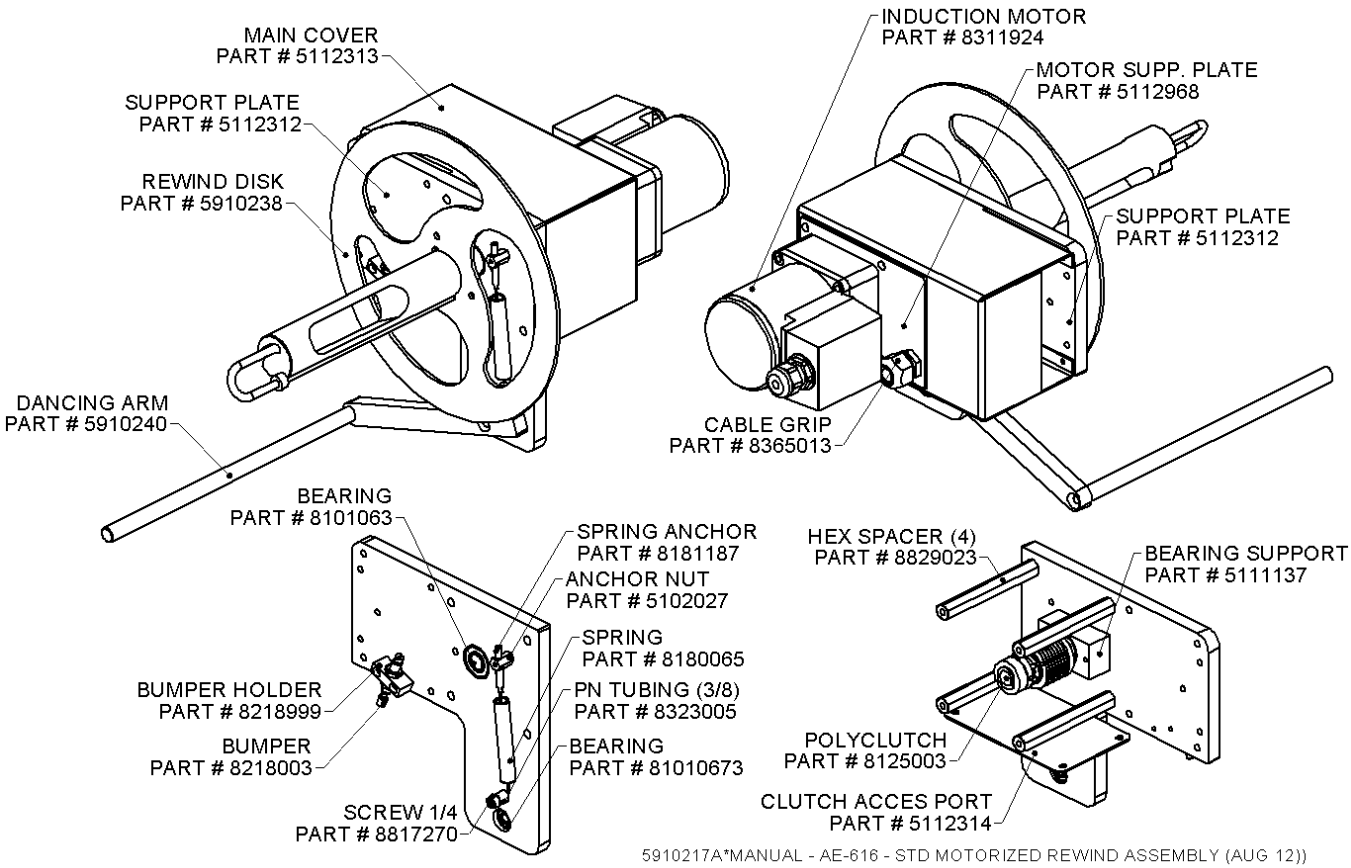


12.6.7 AE-616MKII Motorized - labeler rewind roller



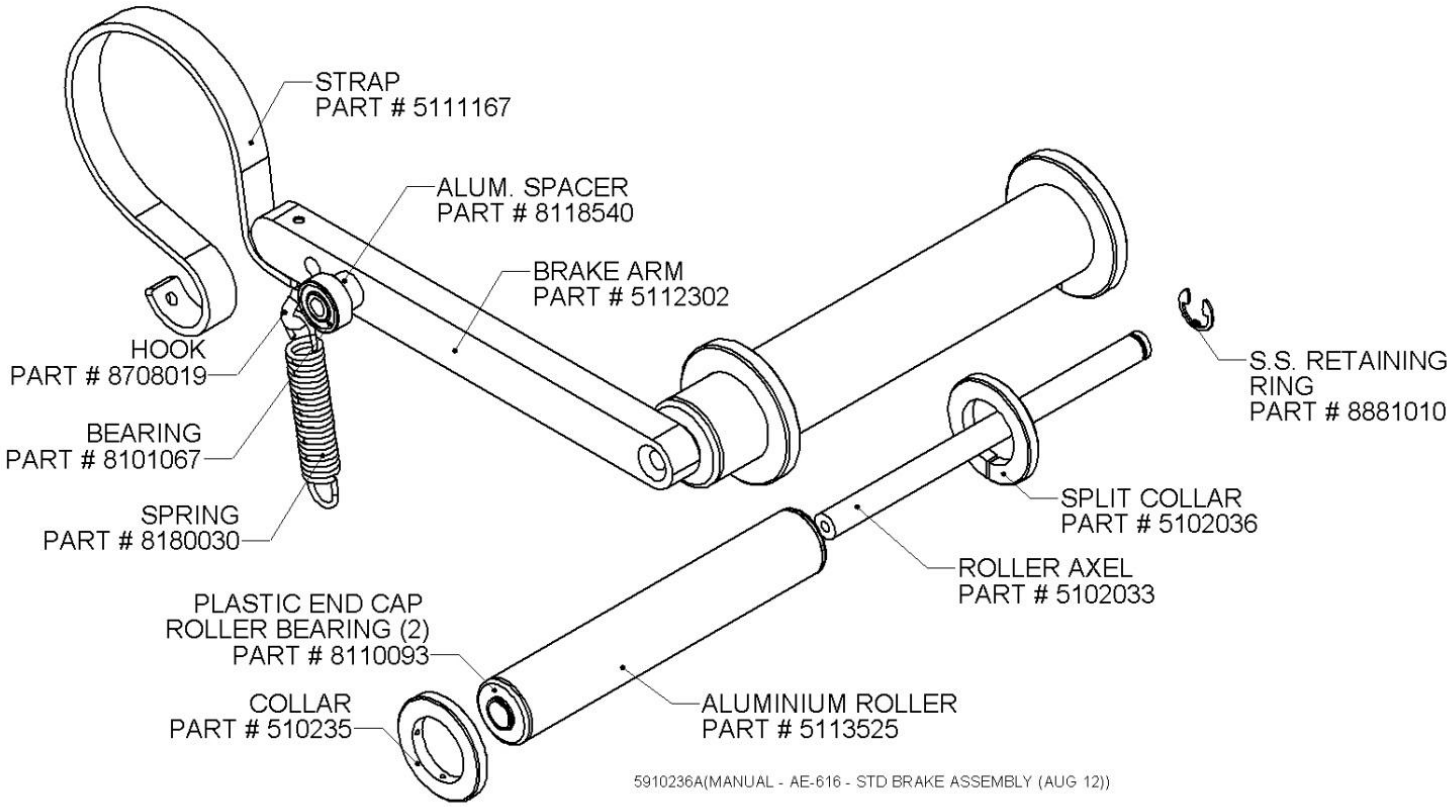
5910238A(MANUAL - AE-616 - STD REWIND DISK ASSEMBLY (AUG 12))

12.6.8 AE-616MKII Motorized - labeler rewind assy

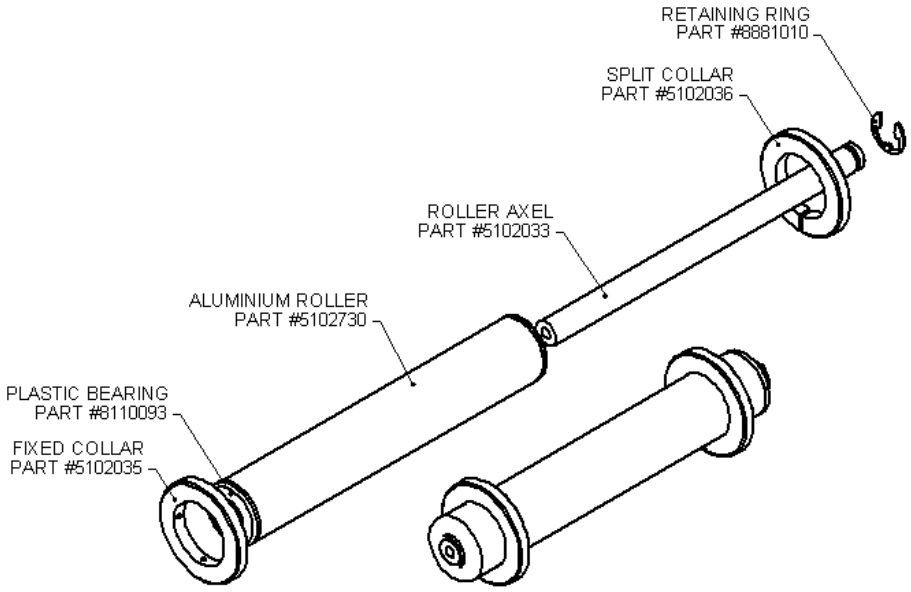


5910217A*MANUAL - AE-616 - STD MOTORIZED REWIND ASSEMBLY (AUG 12))

12.6.9 AE-616MKII Motorized - labeler rewind unwind brake

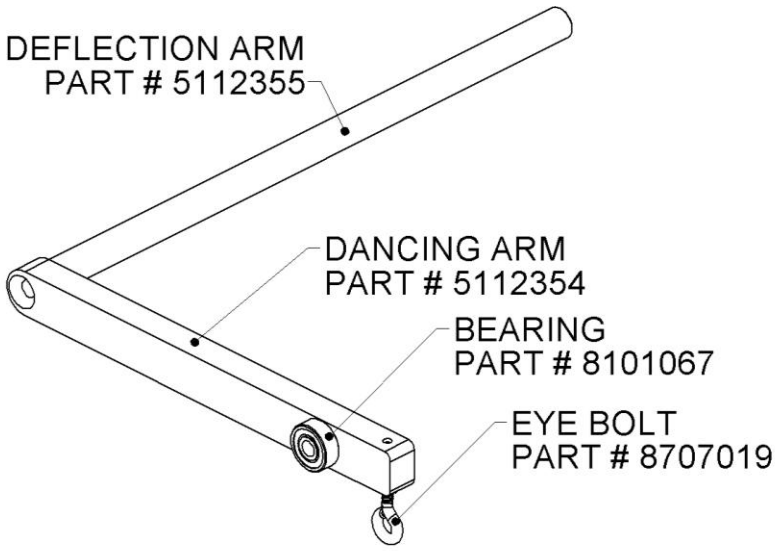


12.6.10 AE616MKII Motorized - Aluminum idler roller



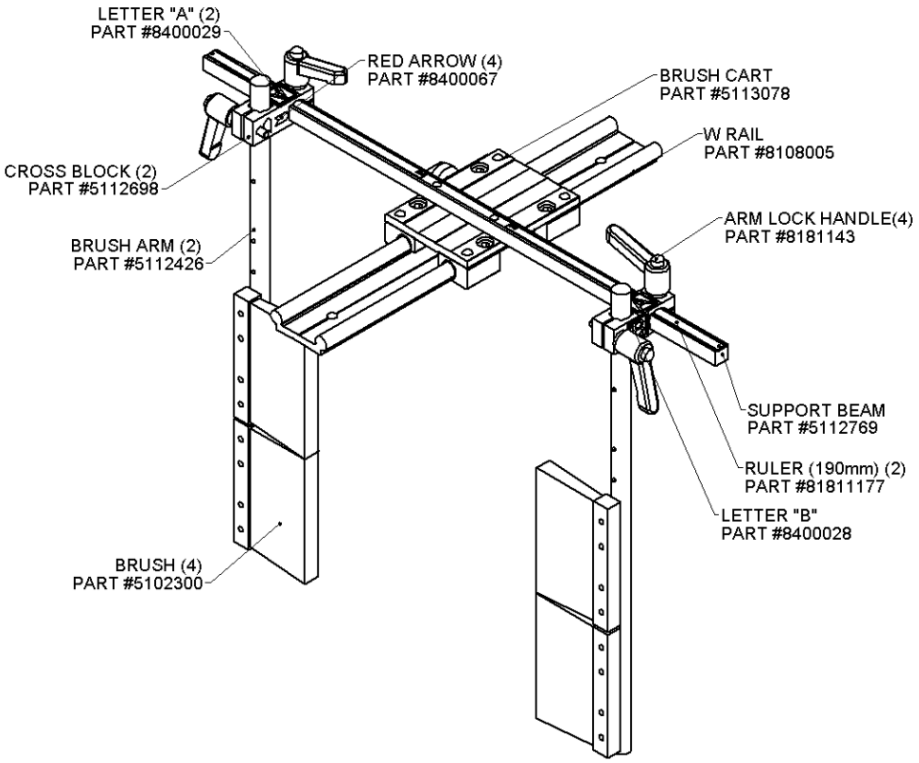
5910211A(MANUAL - AE-612 - STD IDLER ROLLER ASSEMBLY (AUG 12))

12.6.11 AE-616MKII Motorized - labeler deflection ribbon arm



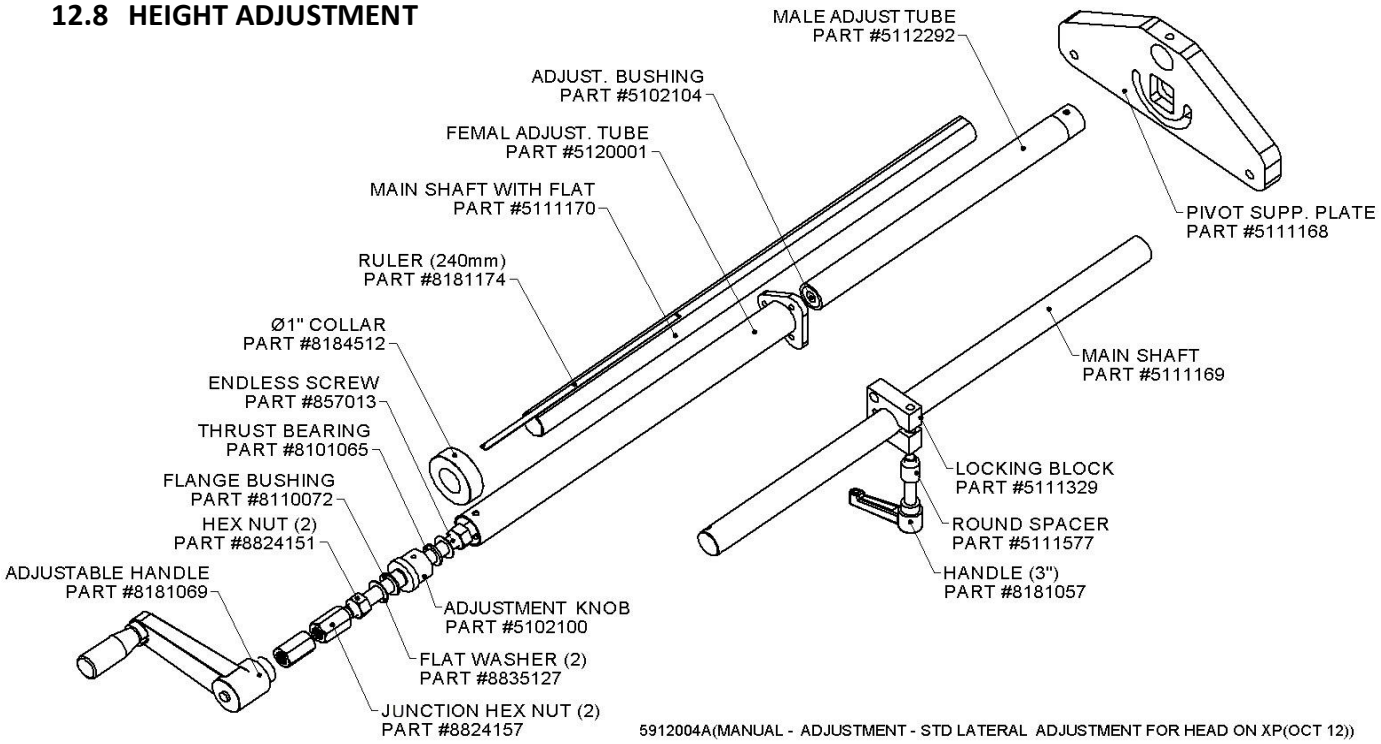
5910240A(MANUAL - AE-616 - STD DANCING ARM ASSEMBLY (AUG 12))

12.7 BRUSH ASSEMBLY



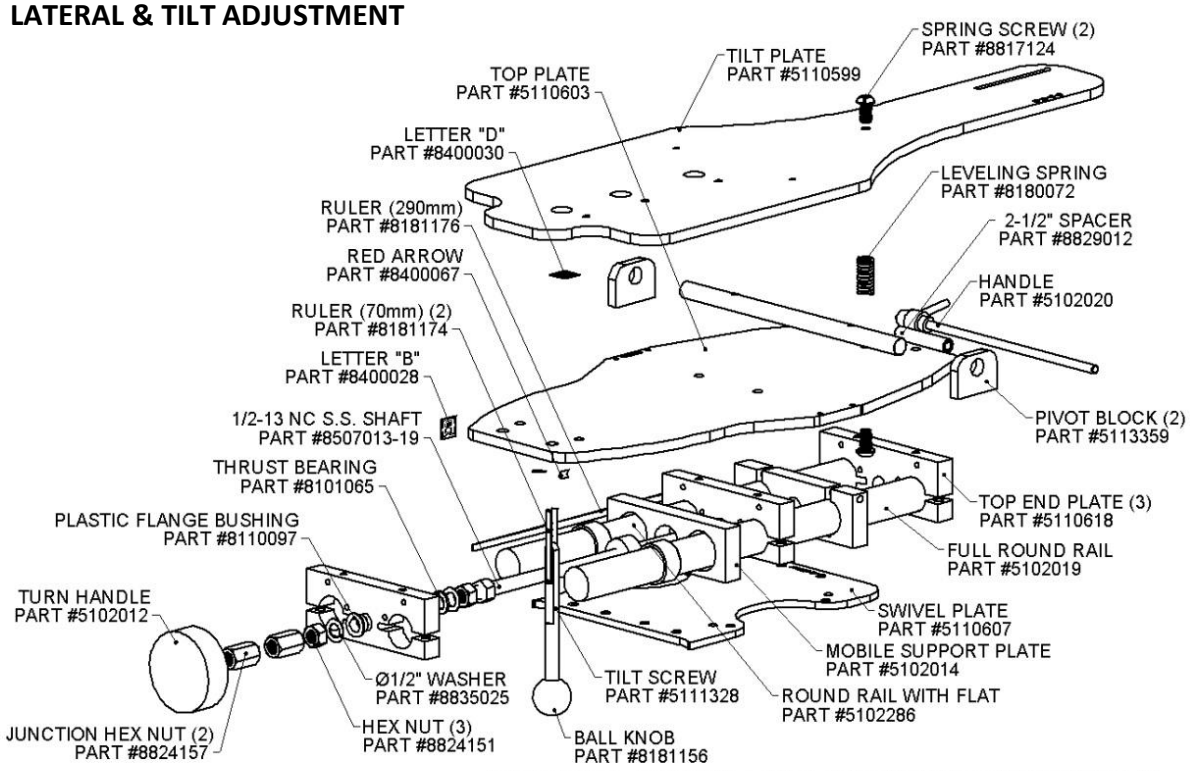
5914029A(MANUAL - CONVEYOR OPTION -SIDE BRUSH KIT ON TCB (OCT 12))

12.8 HEIGHT ADJUSTMENT



5912004A(MANUAL - ADJUSTMENT - STD LATERAL ADJUSTMENT FOR HEAD ON XP(OCT 12))

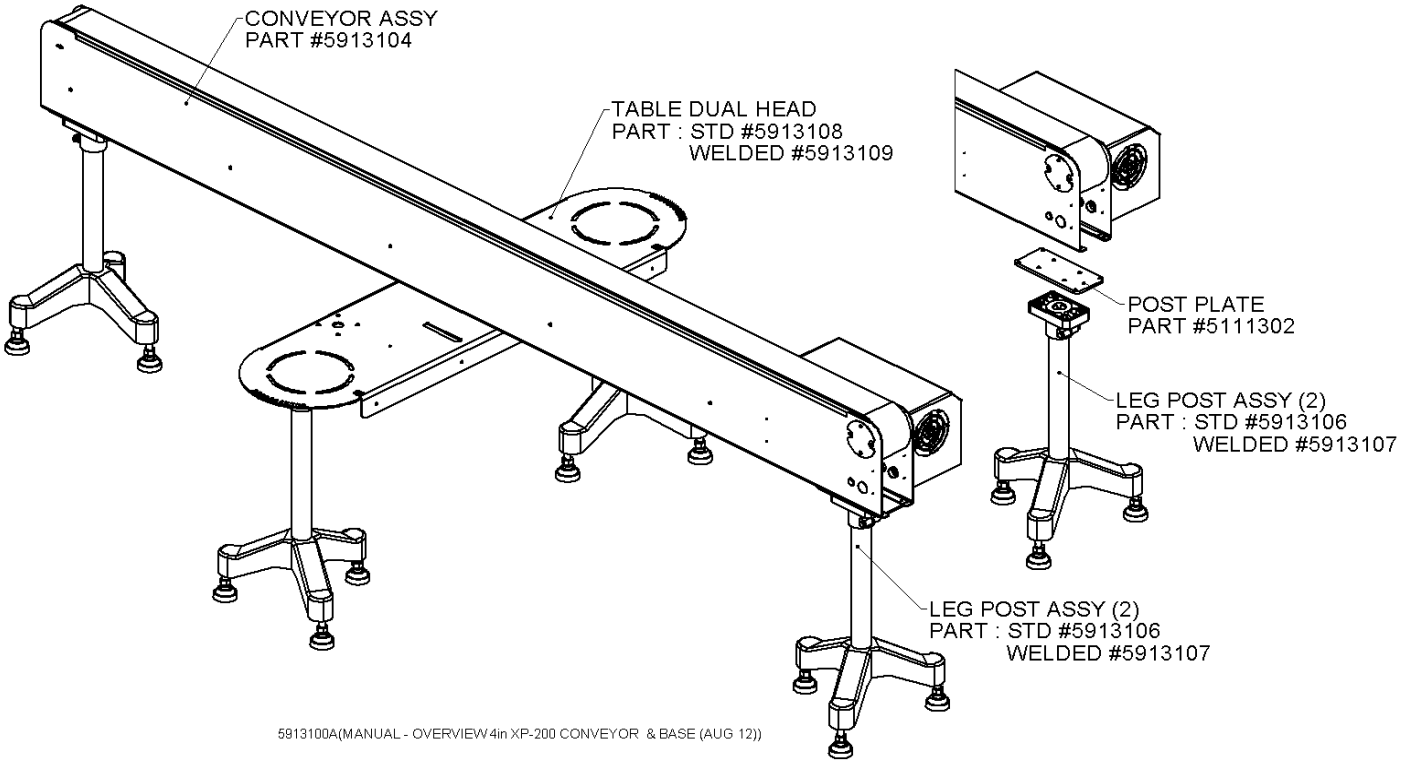
12.9 LATERAL & TILT ADJUSTMENT



5912007A(MANUAL - ADJUSTMENT - LATERAL & TILT AJUSTMENT OF HEAD ON XP (OCT 12))

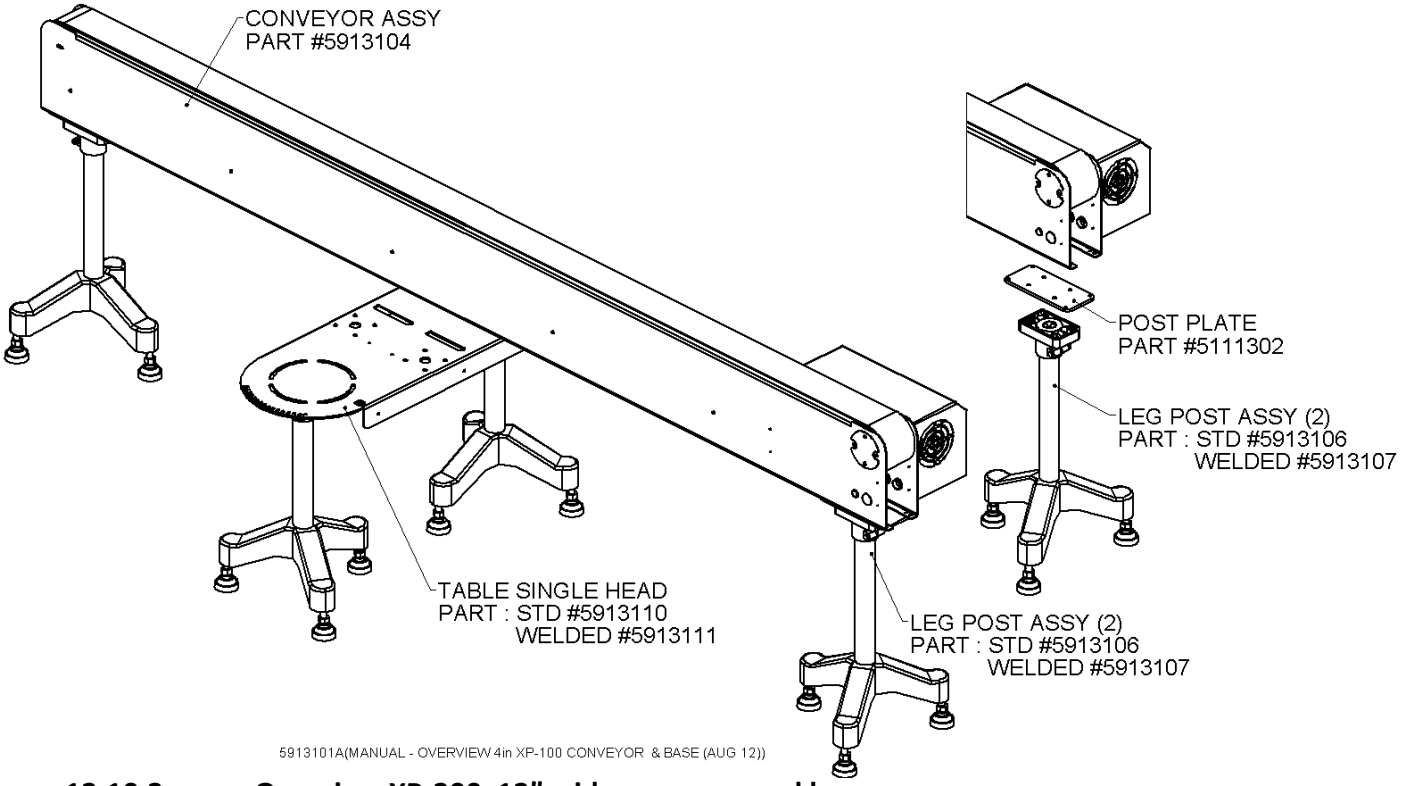
12.10 CONVEYOR ASSEMBLY

12.10.1 Overview XP-200, 4" wide conveyor and base



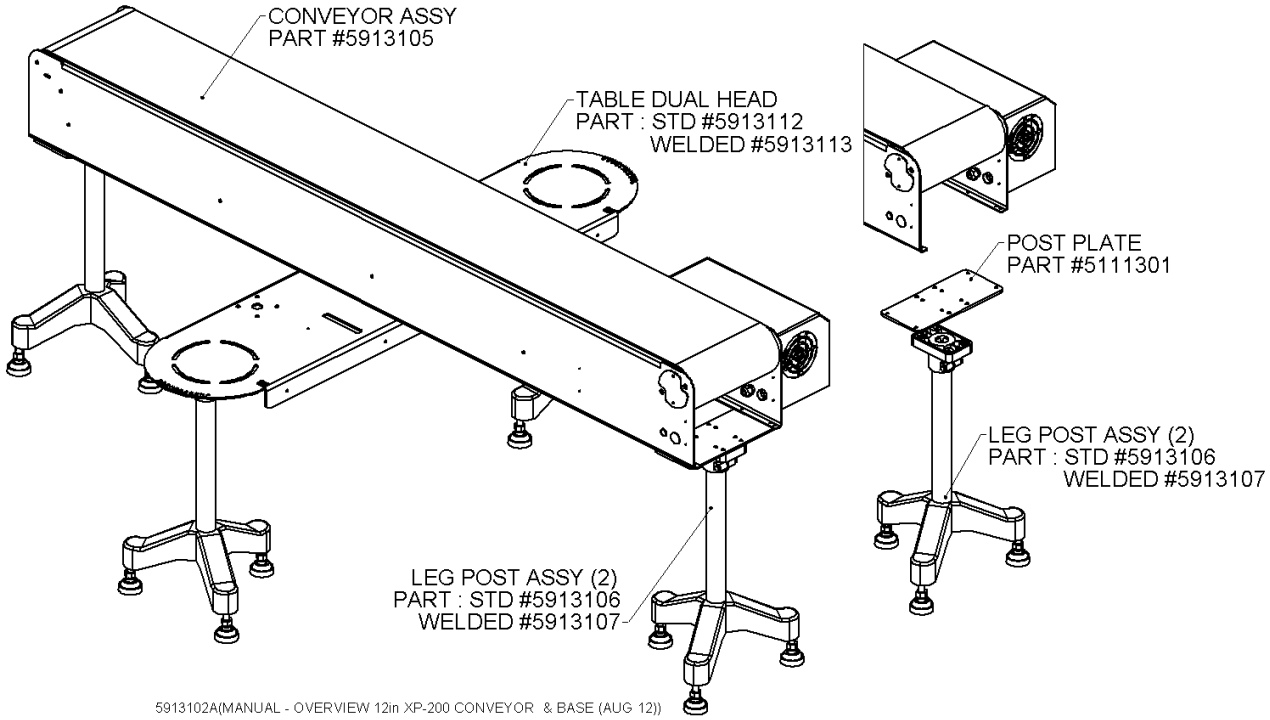
5913100A(MANUAL - OVERVIEW 4in XP-200 CONVEYOR & BASE (AUG 12))

12.10.2 Overview XP-100, 4” wide conveyor and base



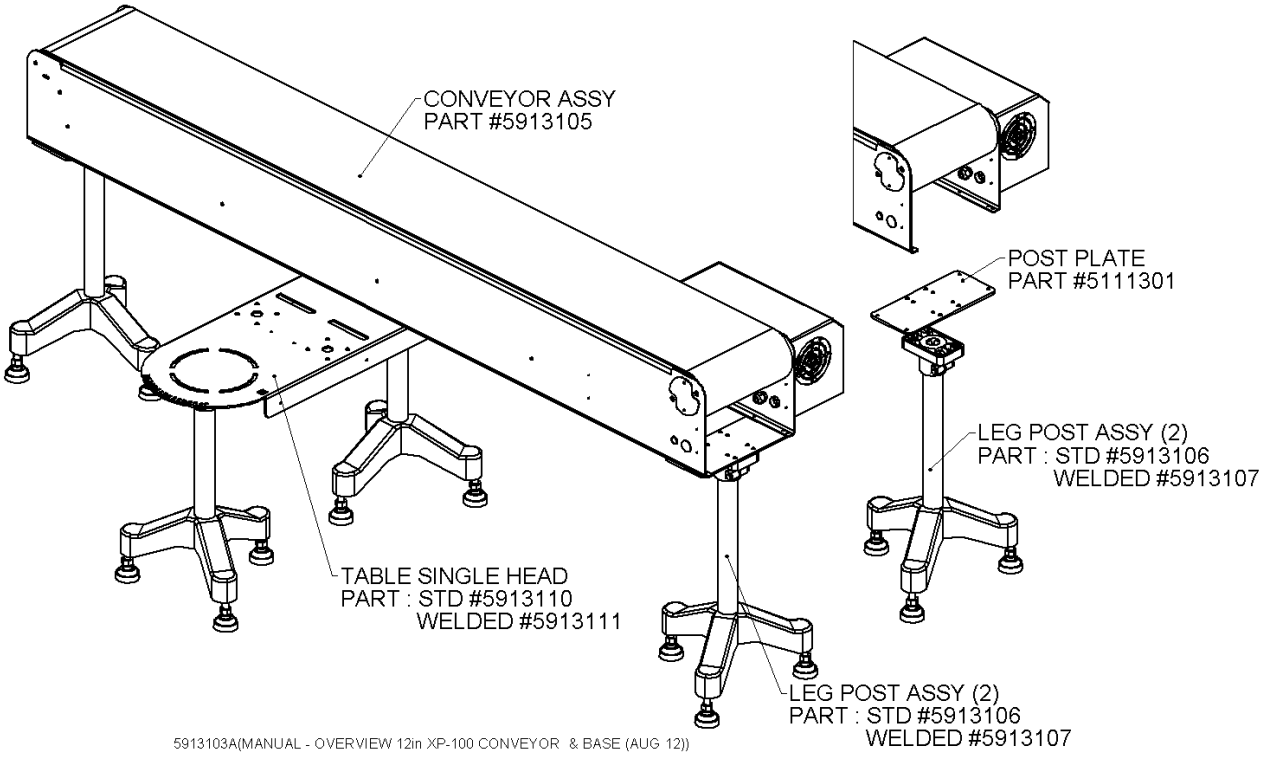
5913101A(MANUAL - OVERVIEW 4in XP-100 CONVEYOR & BASE (AUG 12))

12.10.3 Overview XP-200, 12” wide conveyor and base

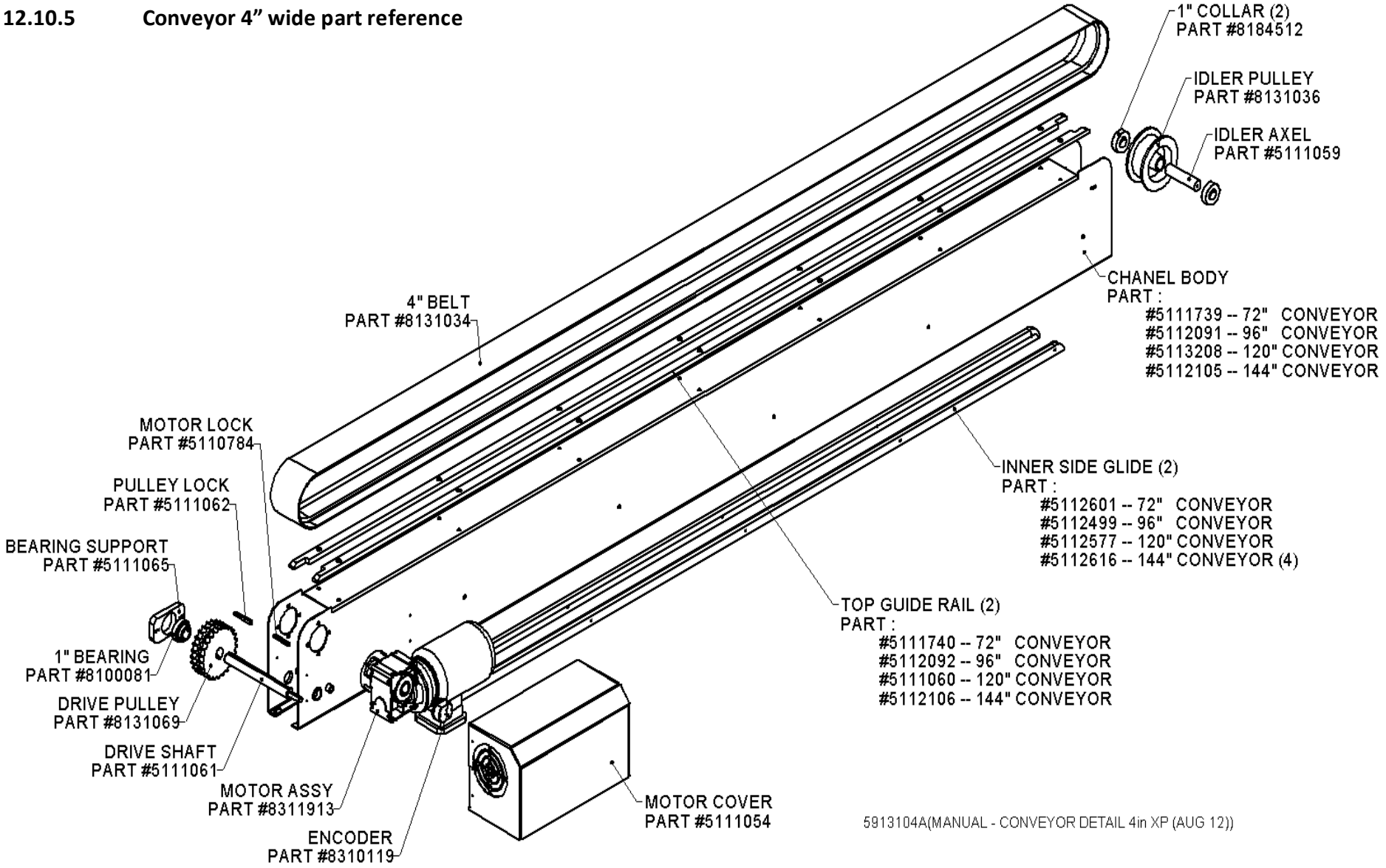


5913102A(MANUAL - OVERVIEW 12in XP-200 CONVEYOR & BASE (AUG 12))

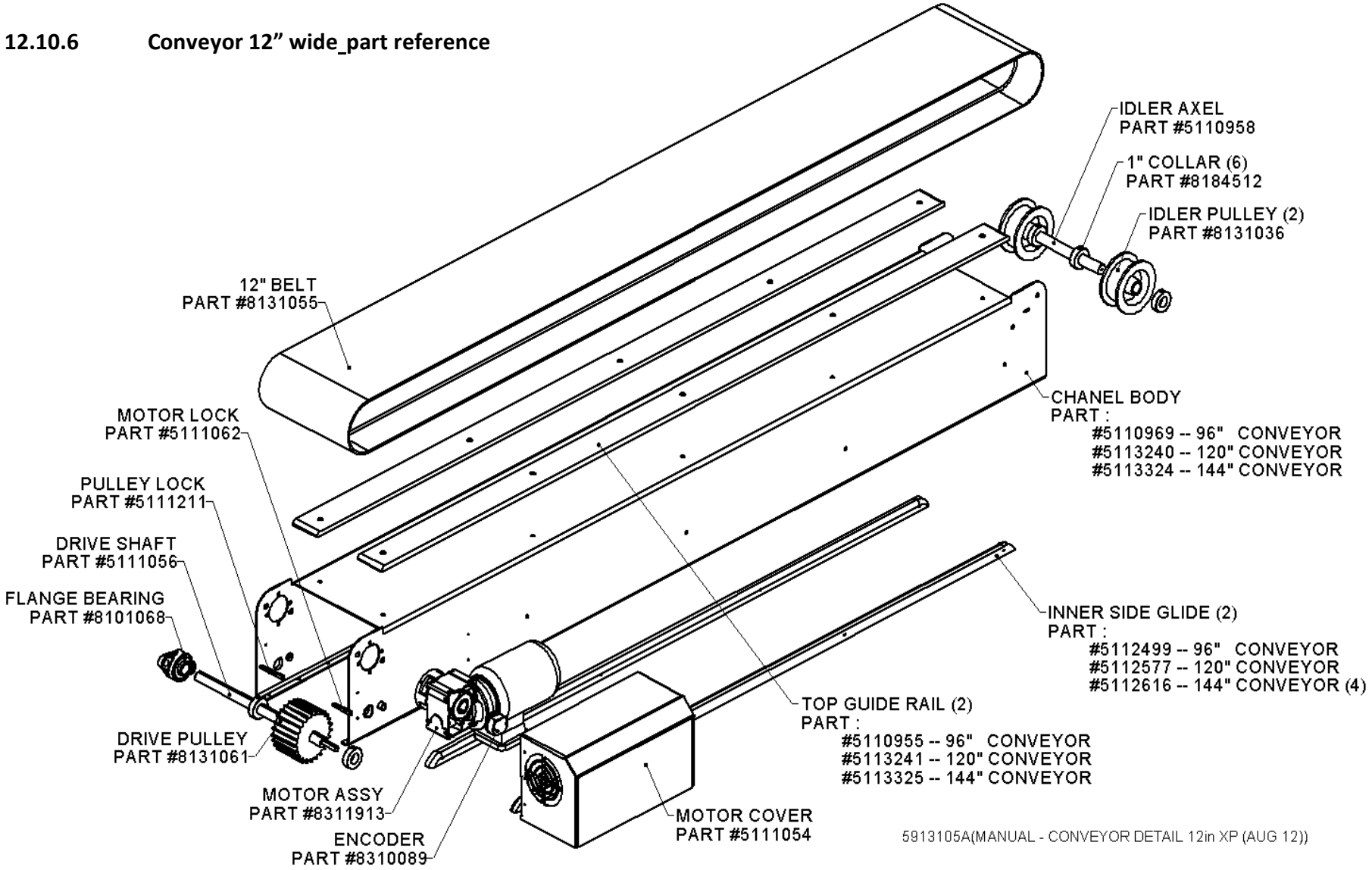
12.10.4 Overview XP-100, 12” wide conveyor and base



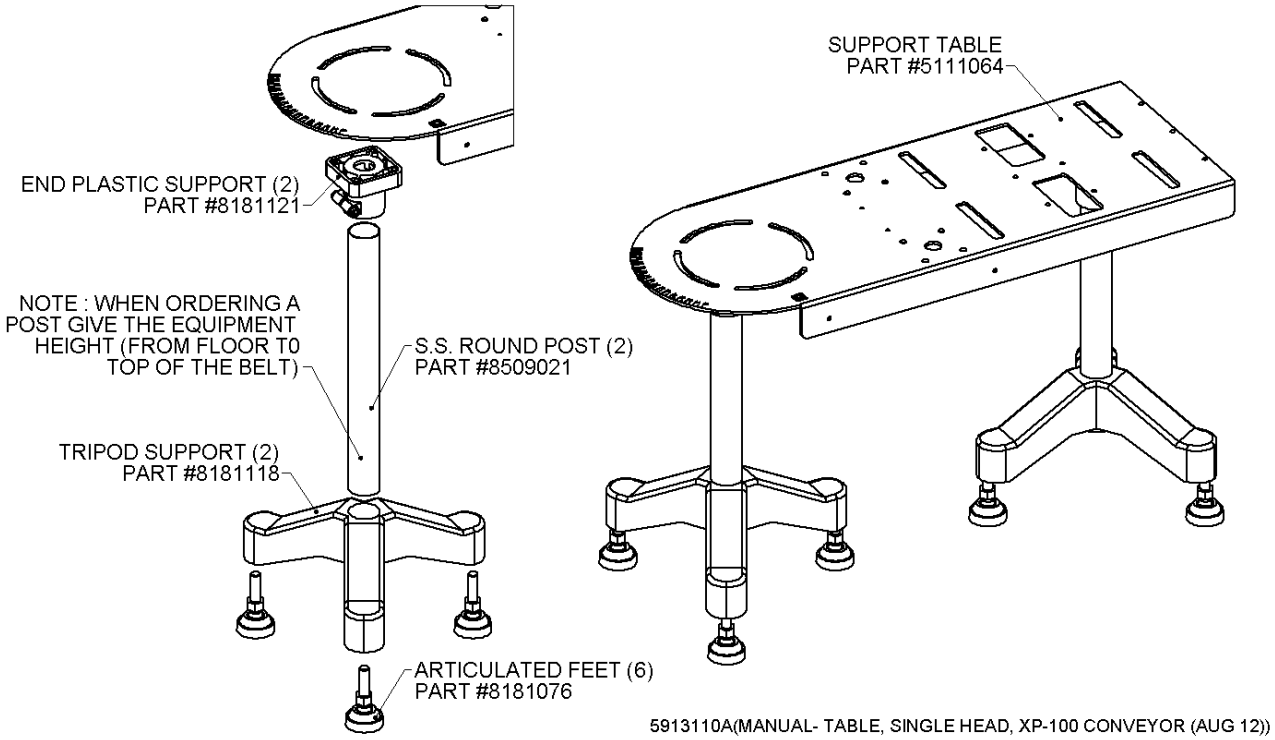
12.10.5 Conveyor 4” wide part reference



12.10.6 Conveyor 12” wide_part reference

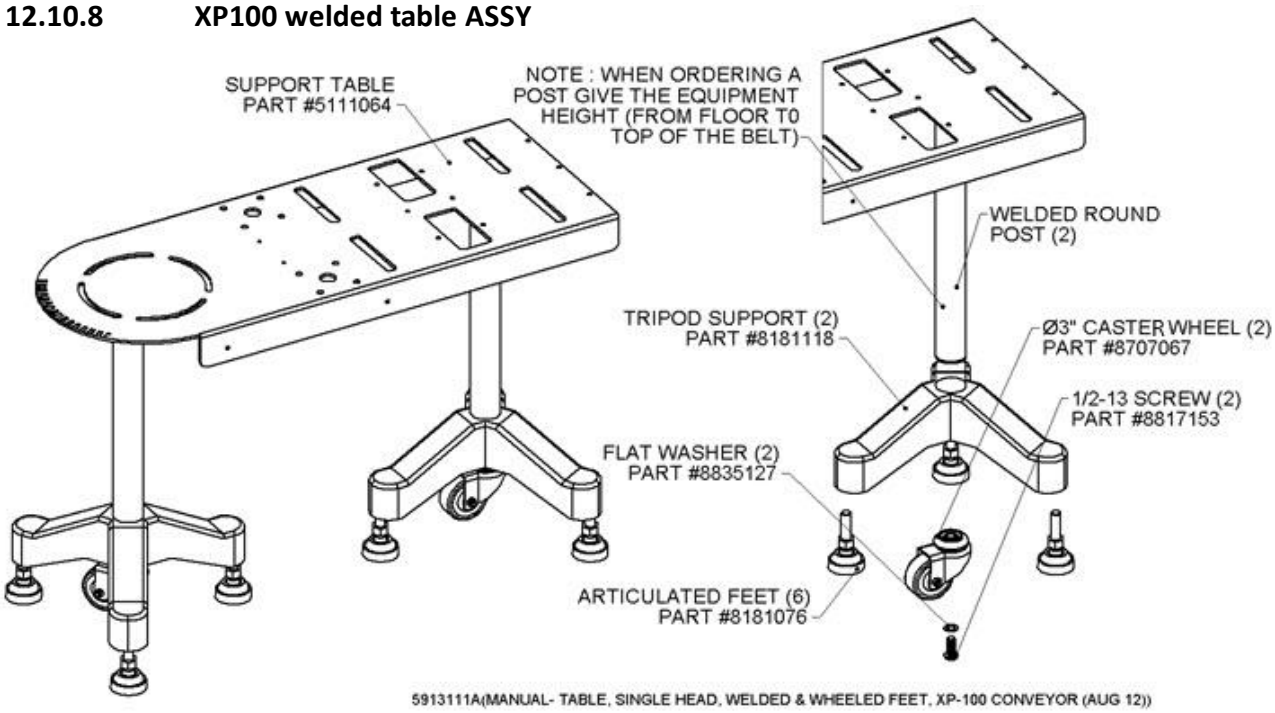


12.10.7 XP100 standard table ASSY



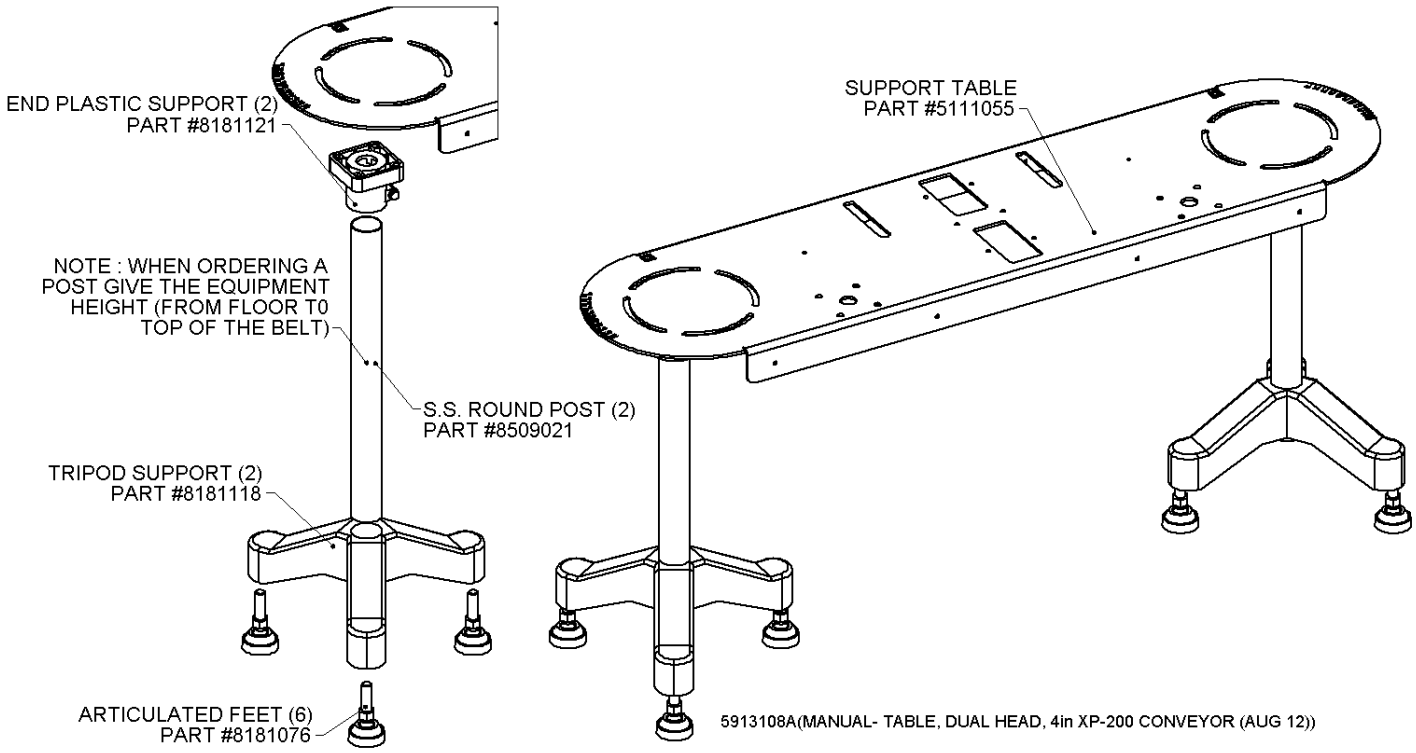
5913110A(MANUAL- TABLE, SINGLE HEAD, XP-100 CONVEYOR (AUG 12))

12.10.8 XP100 welded table ASSY

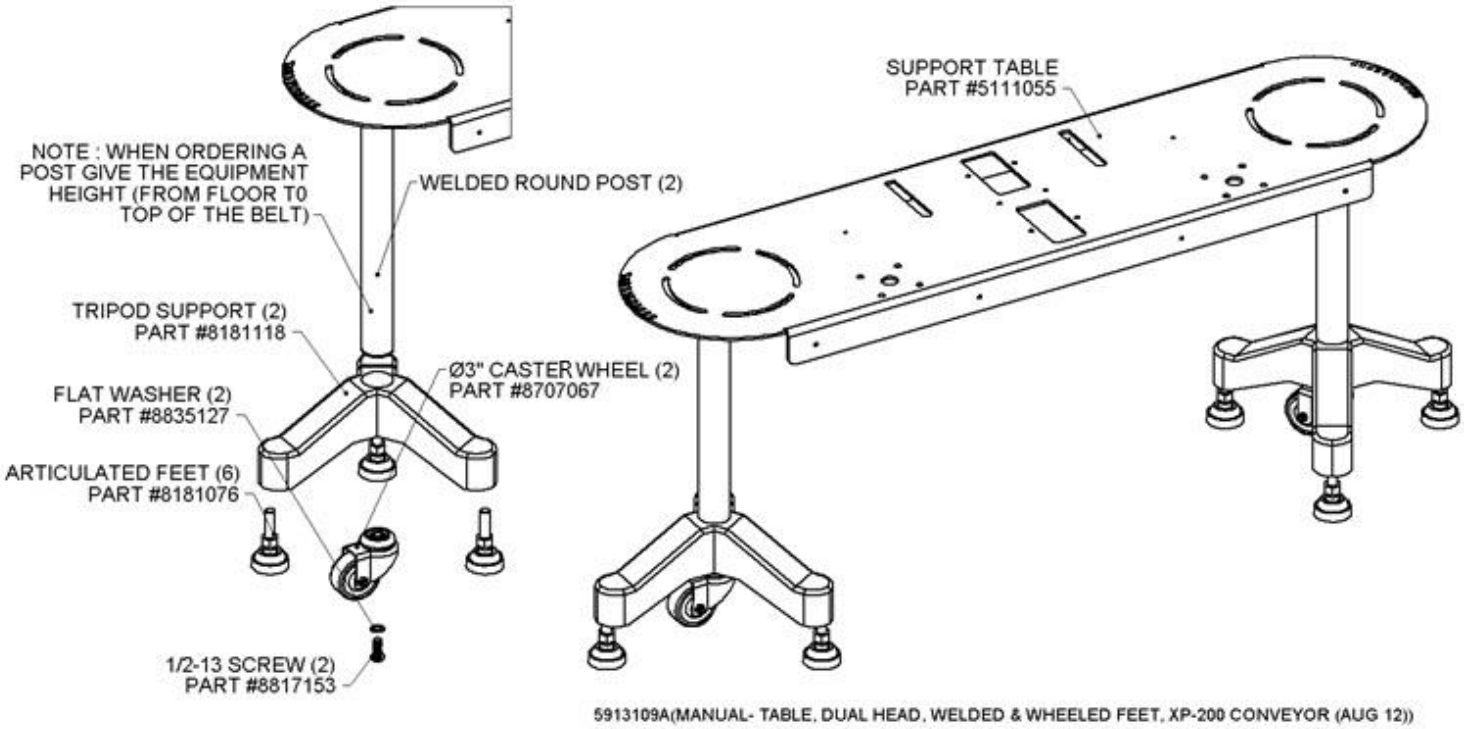


5913111A(MANUAL- TABLE, SINGLE HEAD, WELDED & WHEELED FEET, XP-100 CONVEYOR (AUG 12))

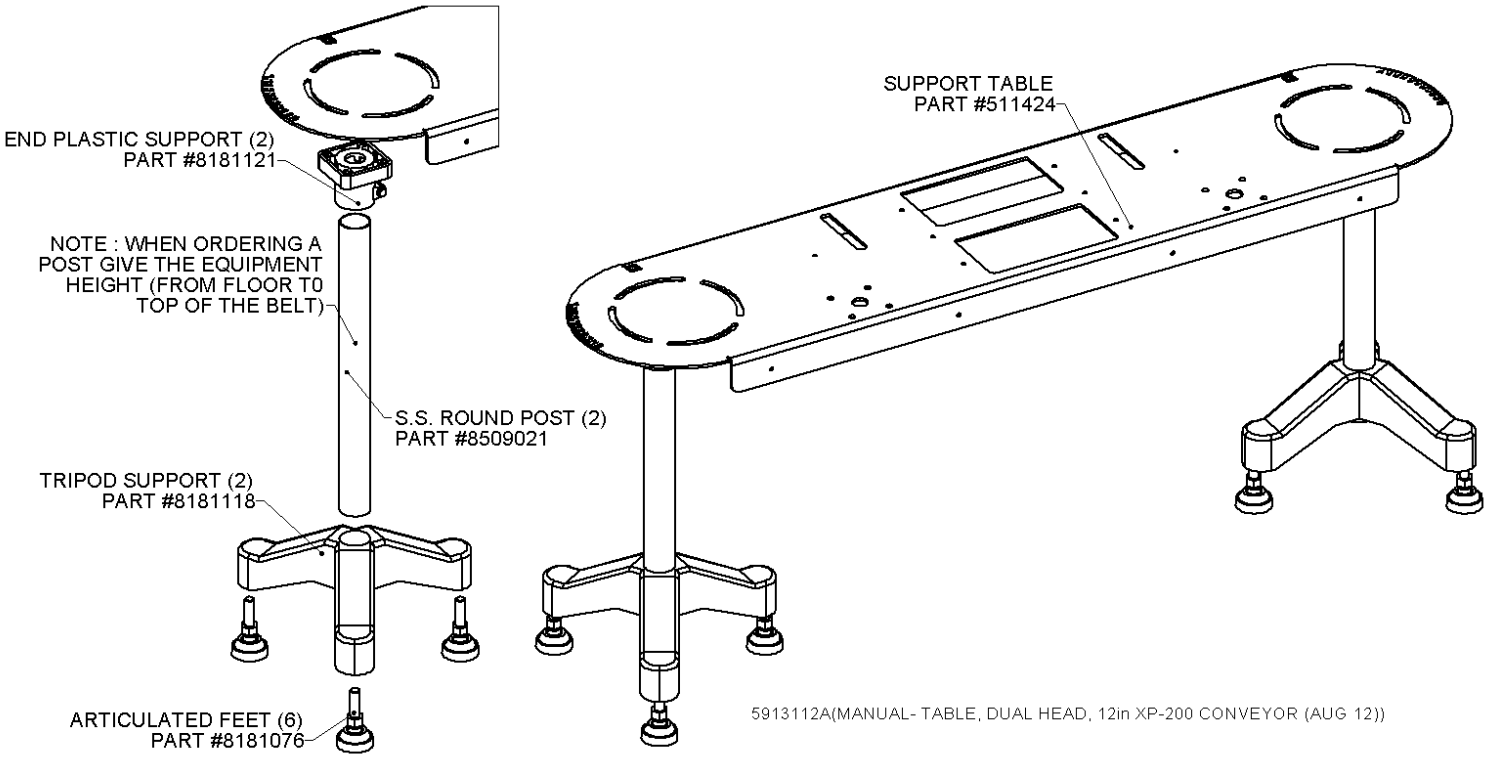
12.10.9 XP200 4”wide standard table ASSY



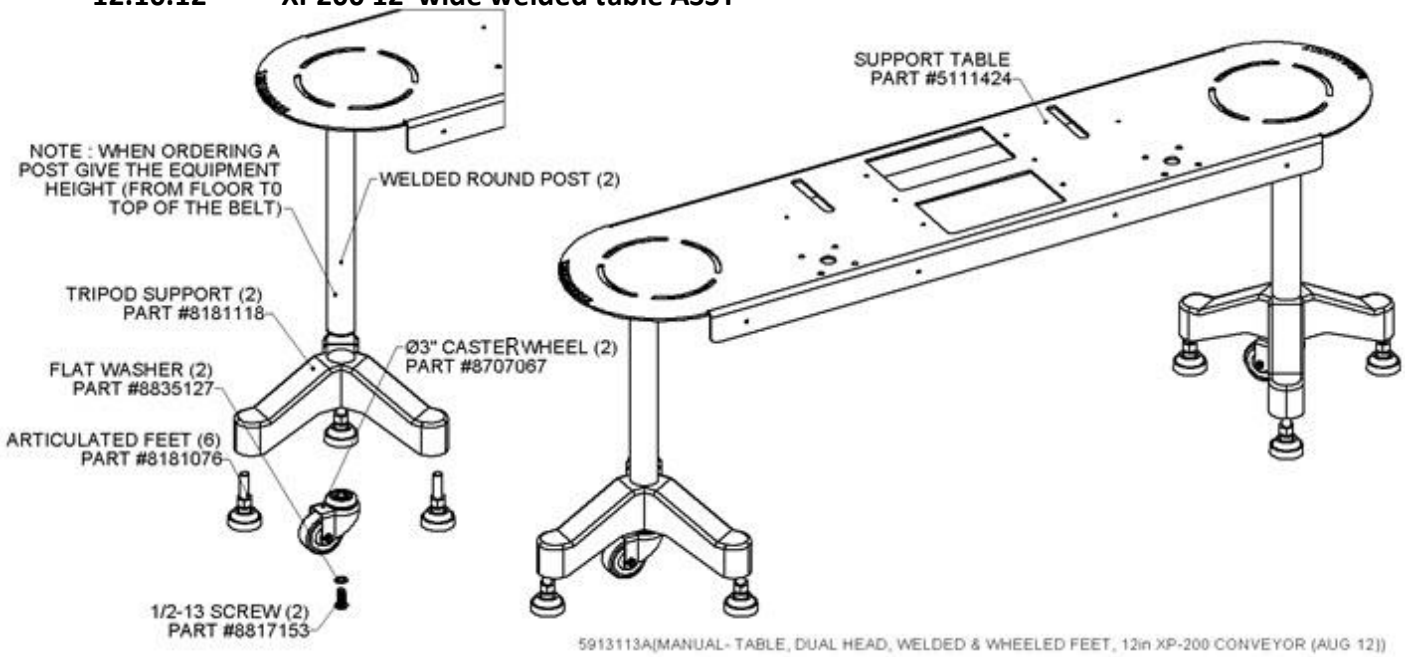
12.10.10 XP200 4”wide welded table ASSY



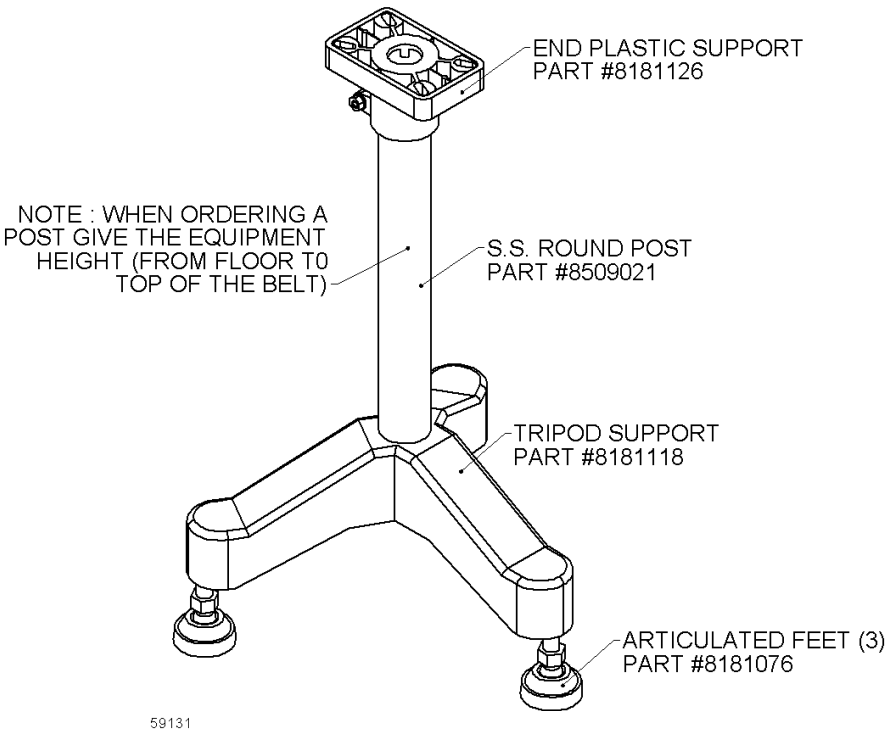
12.10.11 XP200 12”wide standard table ASSY



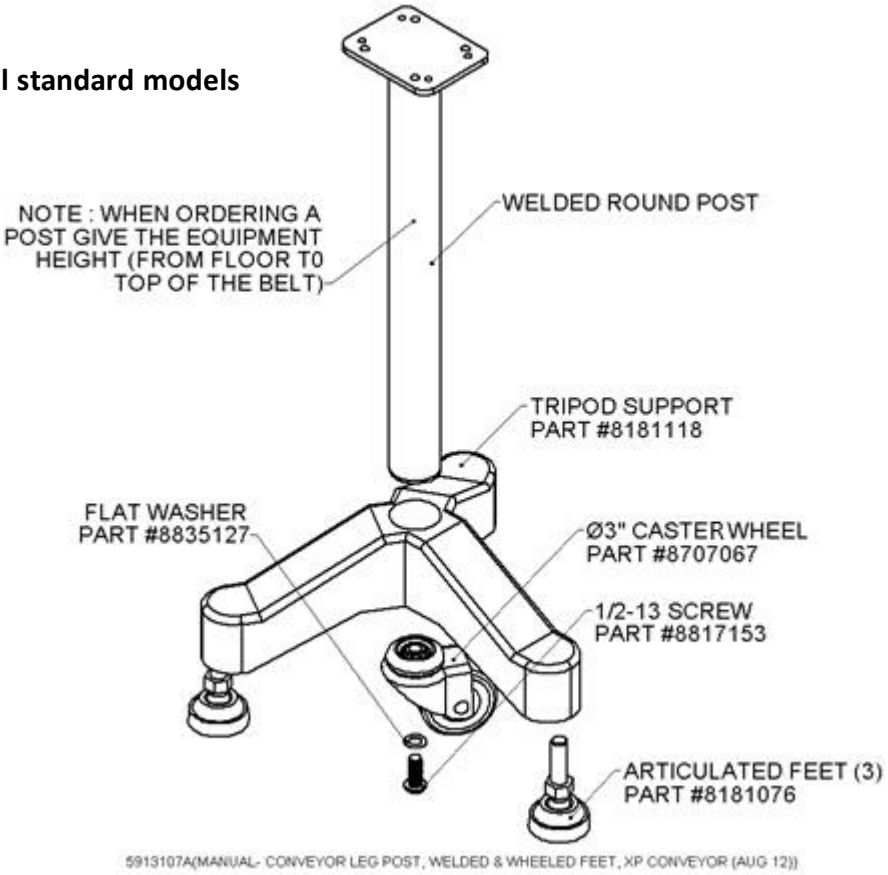
12.10.12 XP200 12”wide welded table ASSY



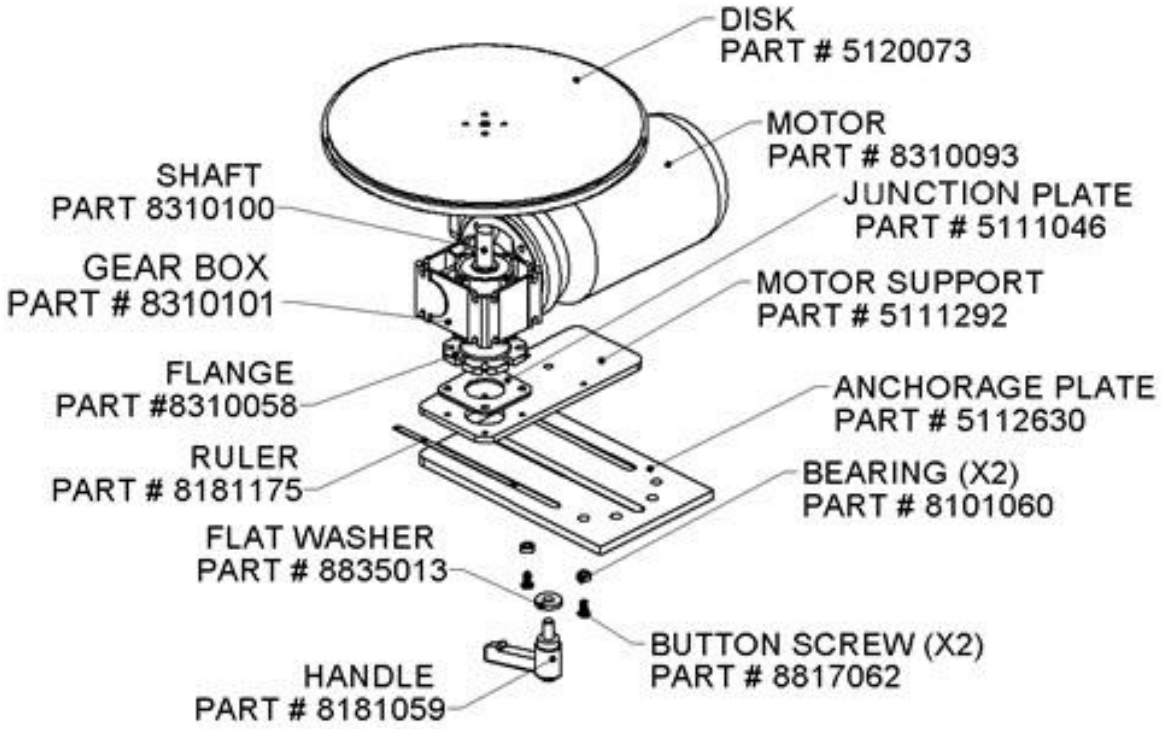
12.10.13 Leg ASSY for all standard models



12.10.14 Leg ASSY for all standard models

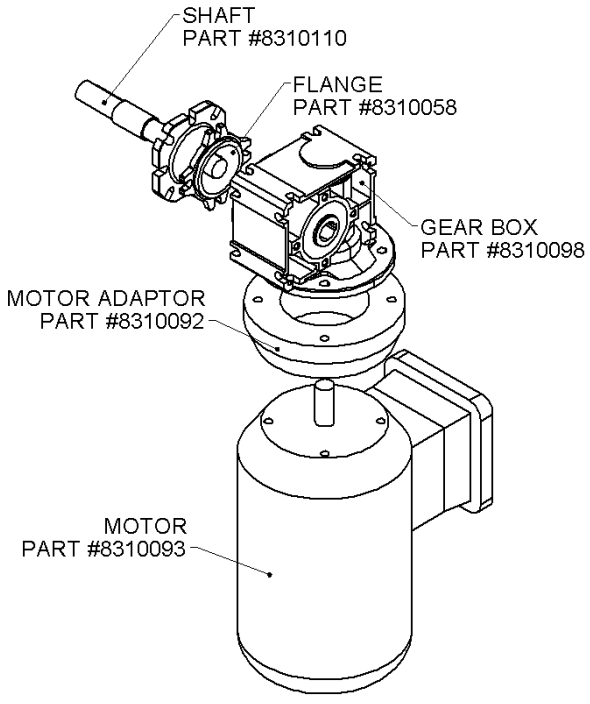


12.10.15 Spacing wheel



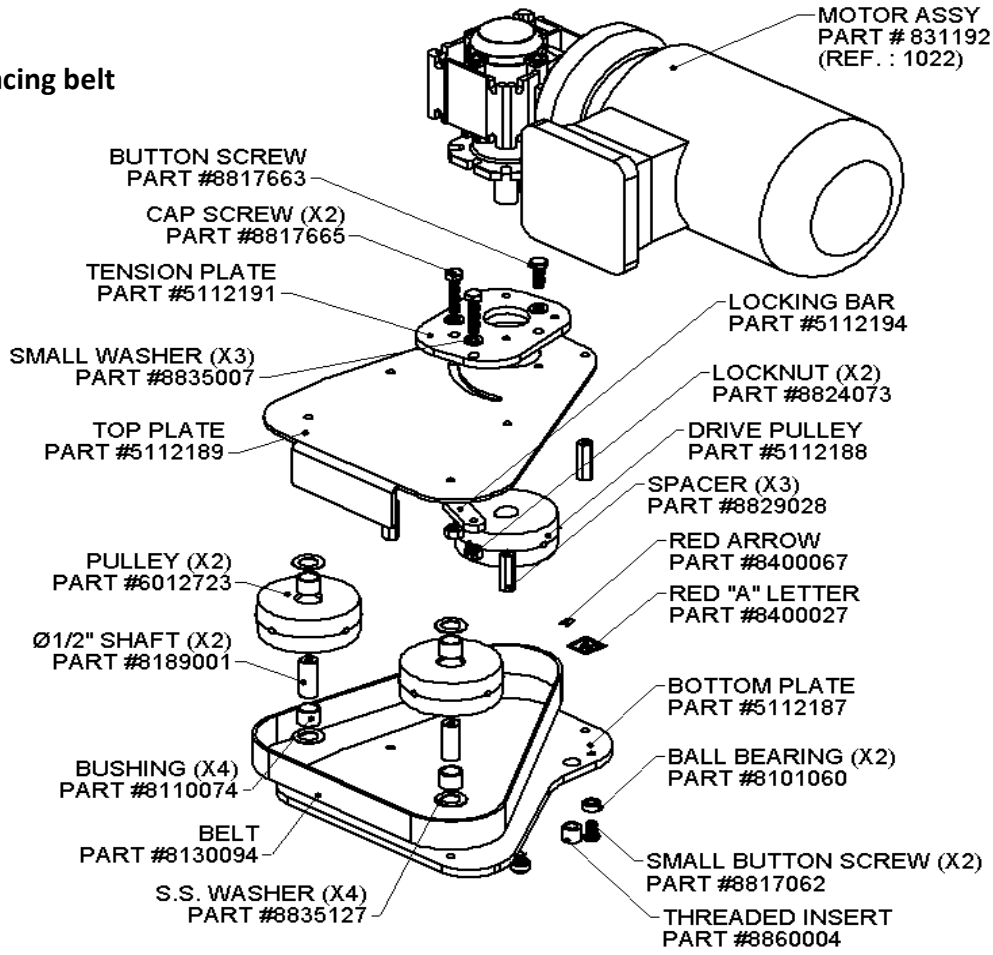
5914000A(MANUAL- CONVEYOR OPTION - SPACING WHEEL (AUG 12))

MOTOR ASSEMBLY SPACING WHEEL



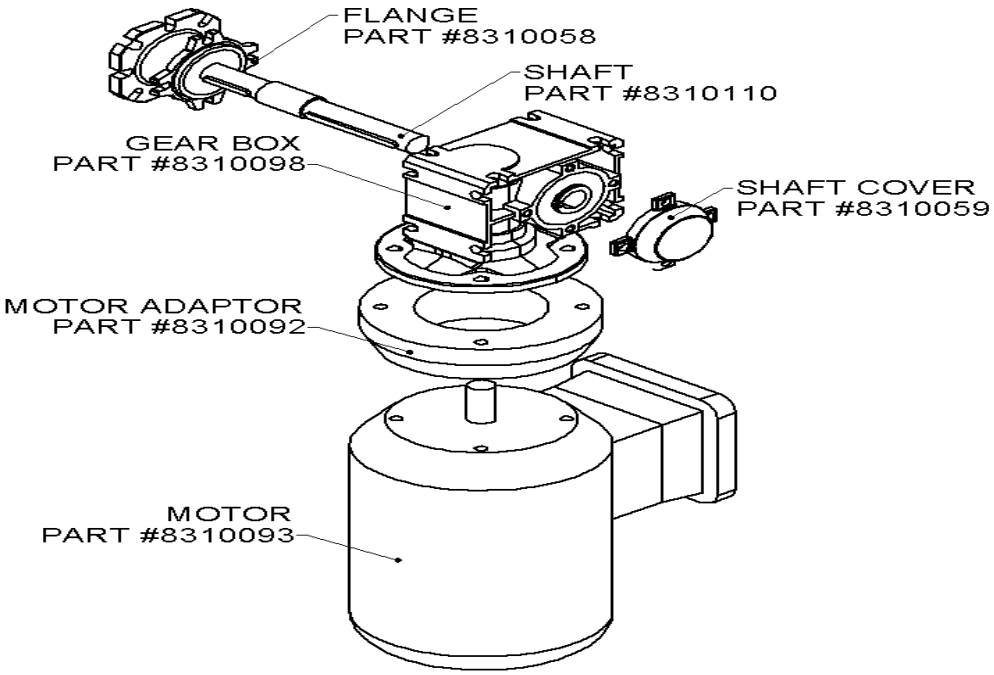
5914002A(MANUAL - CONVEYOR OPTION - SPACING UNIT MOTOR (AUG 12))

12.11 Spacing belt



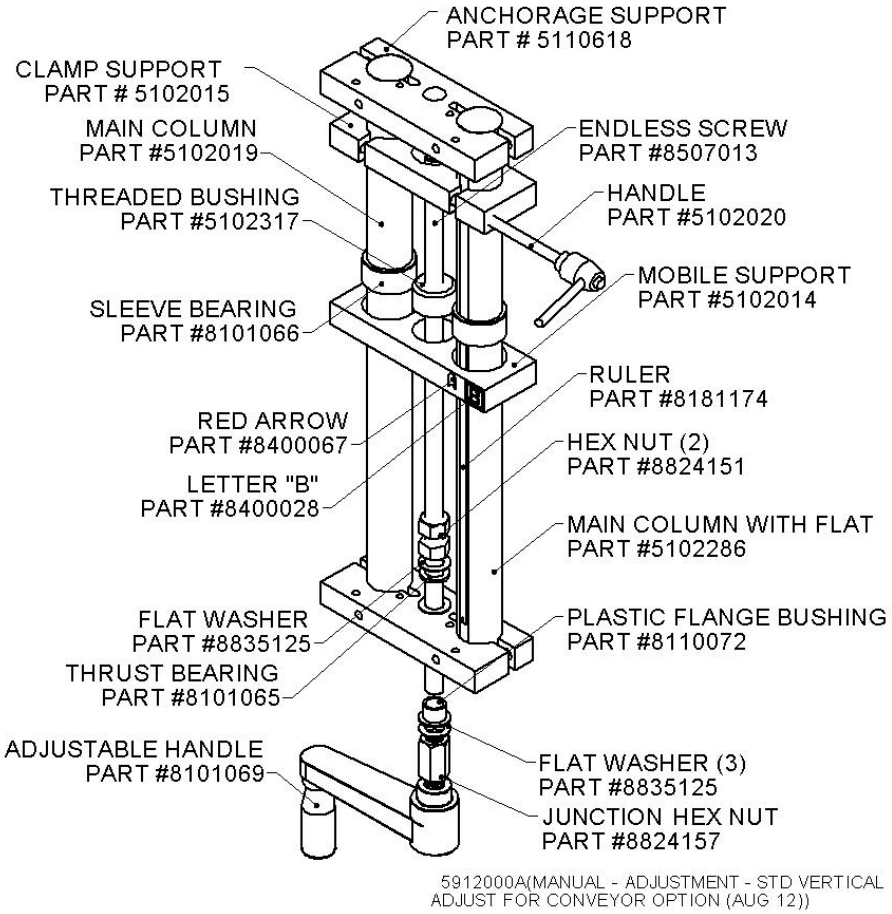
5914001A(MANUAL- CONVEYOR OPTION - SPACING BELT(AUG 12))

MOTOR ASSEMBLY SPACING BELT



5914002A(MANUAL - CONVEYOR OPTION - SPACING UNIT MOTOR (AUG 12))

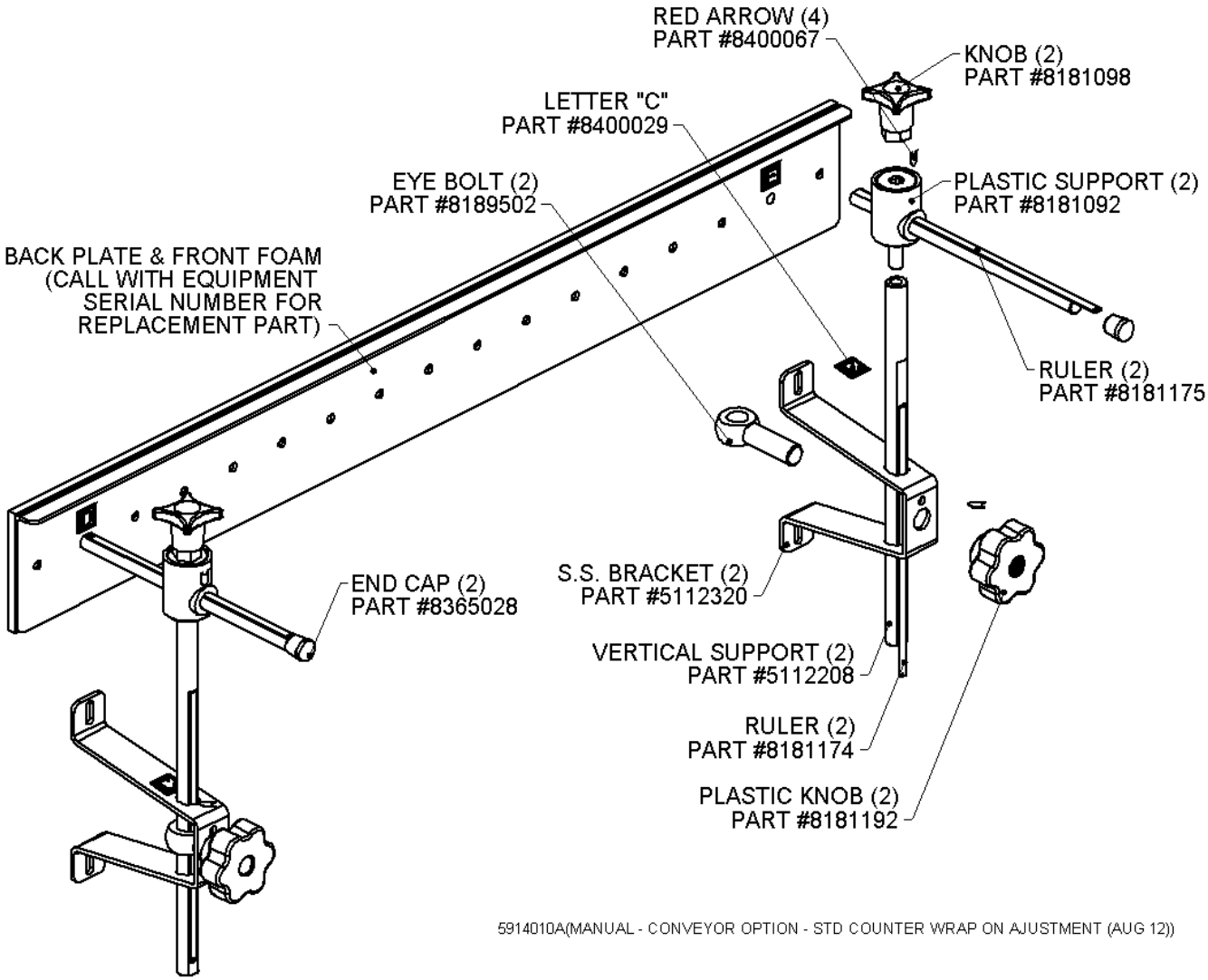
12.12 Vertical adjustment – Spacing Belt / Wheel



5912000A(MANUAL - ADJUSTMENT - STD VERTICAL ADJUST FOR CONVEYOR OPTION (AUG 12))

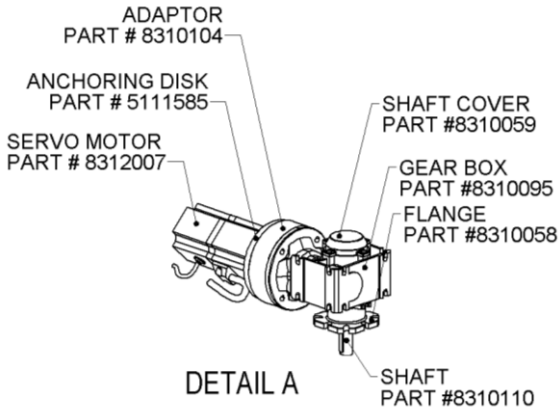
12.13 Wrap Station

12.13.1 Counter wrap station STD – Back plate

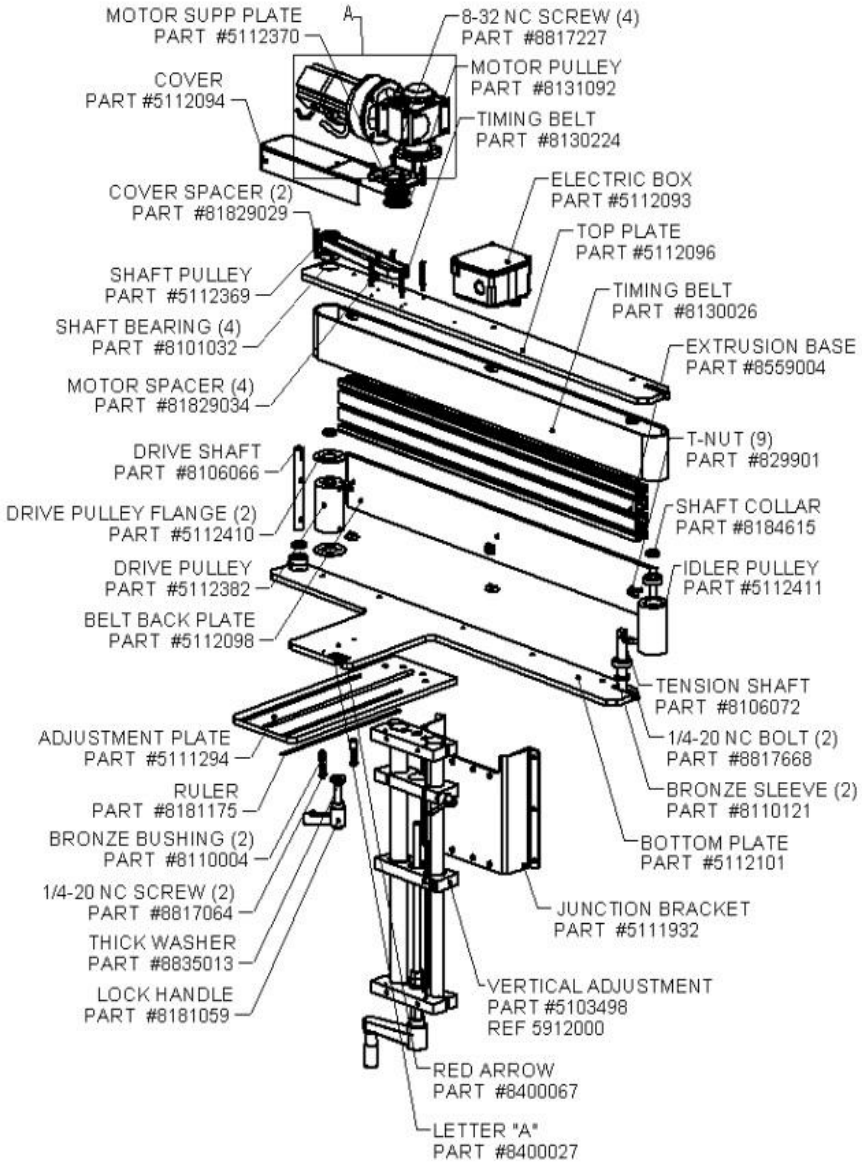


5914010A(MANUAL - CONVEYOR OPTION - STD COUNTER WRAP ON AJUSTMENT (AUG 12))

12.13.2 Standard Length Wrap station (30'')

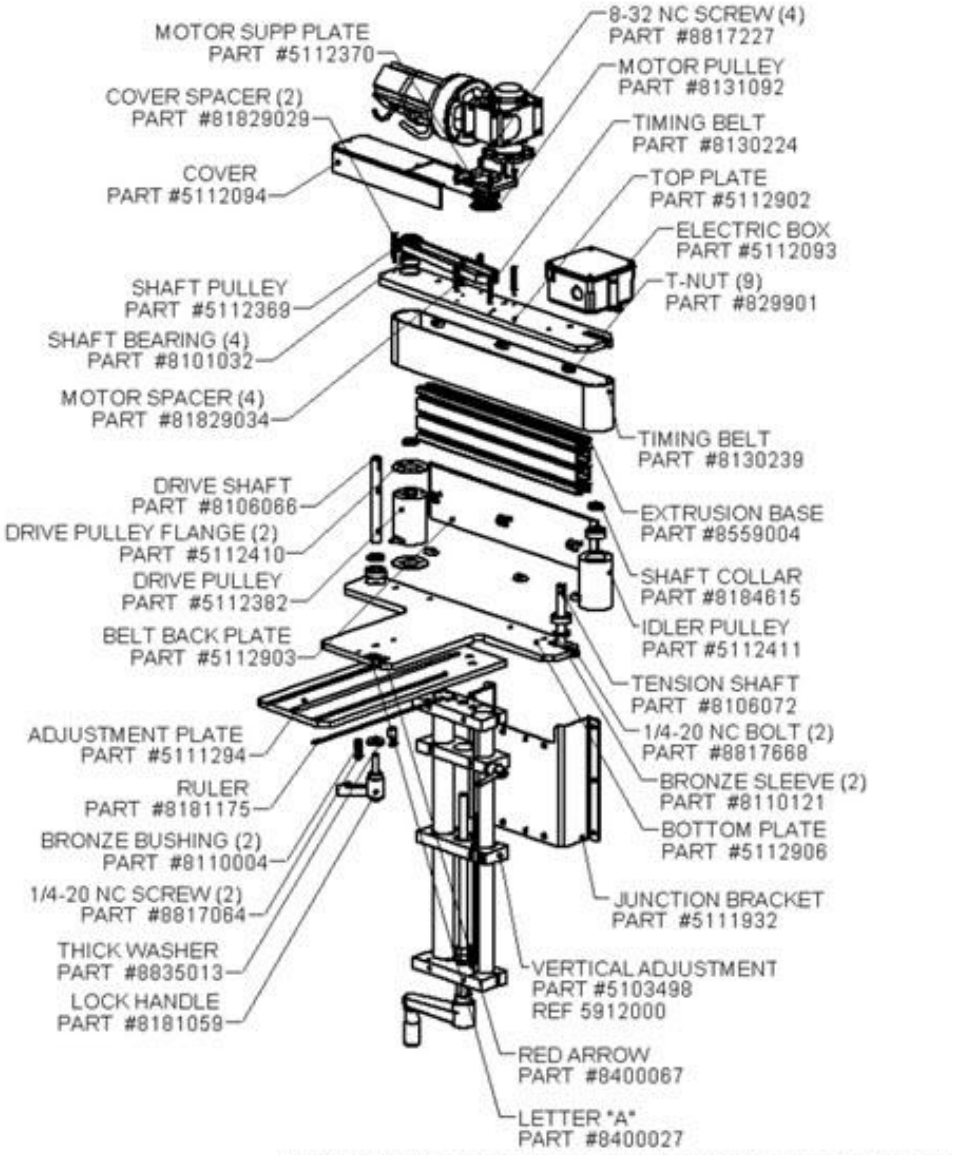


5914011A(MANUAL - CONVEYOR OPTION - STD LENGTH WRAP STATION (AUG 12))



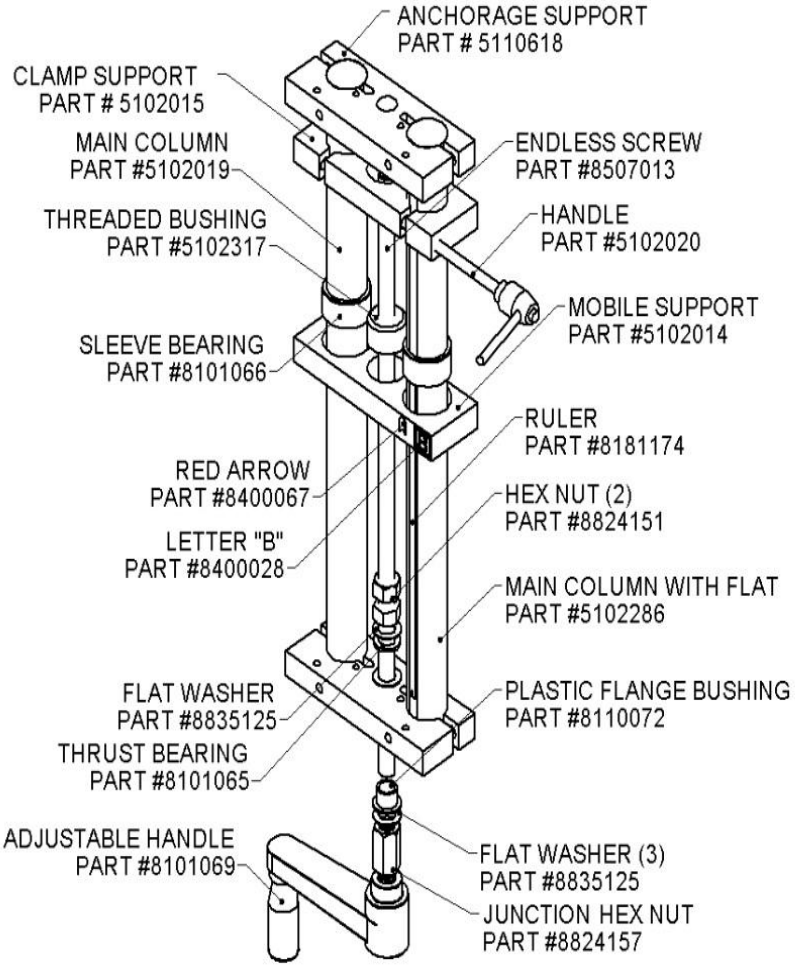
5914011A(MANUAL - CONVEYOR OPTION - STD LENGTH WRAP STATION (AUG 12))

12.13.3 Short Length Wrap station (18'')



5914012A(MANUAL - CONVEYOR OPTION - SHORT LENGTH WRAP STATION (AUG 12))

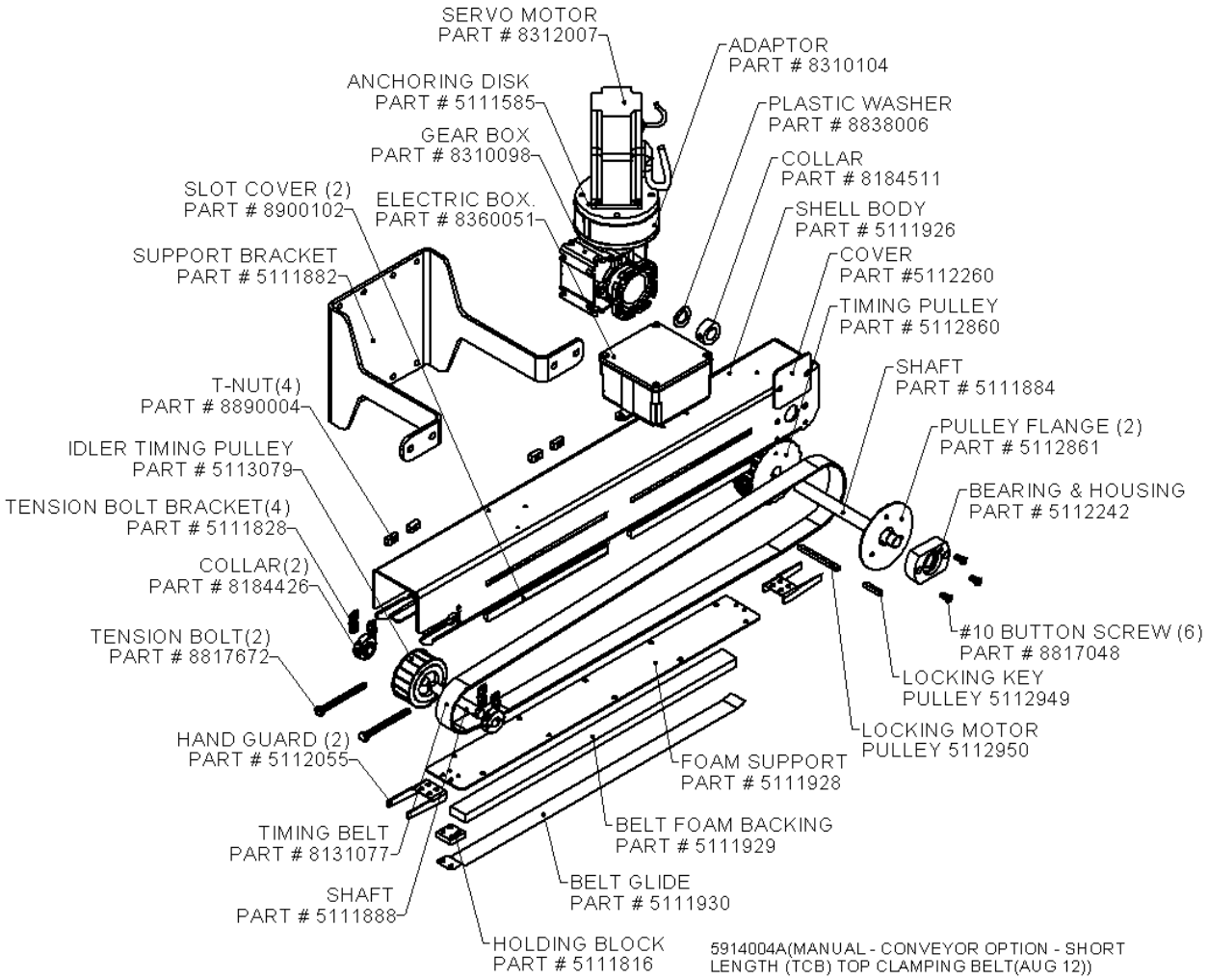
12.13.4 Vertical adjustment (On All Versions)



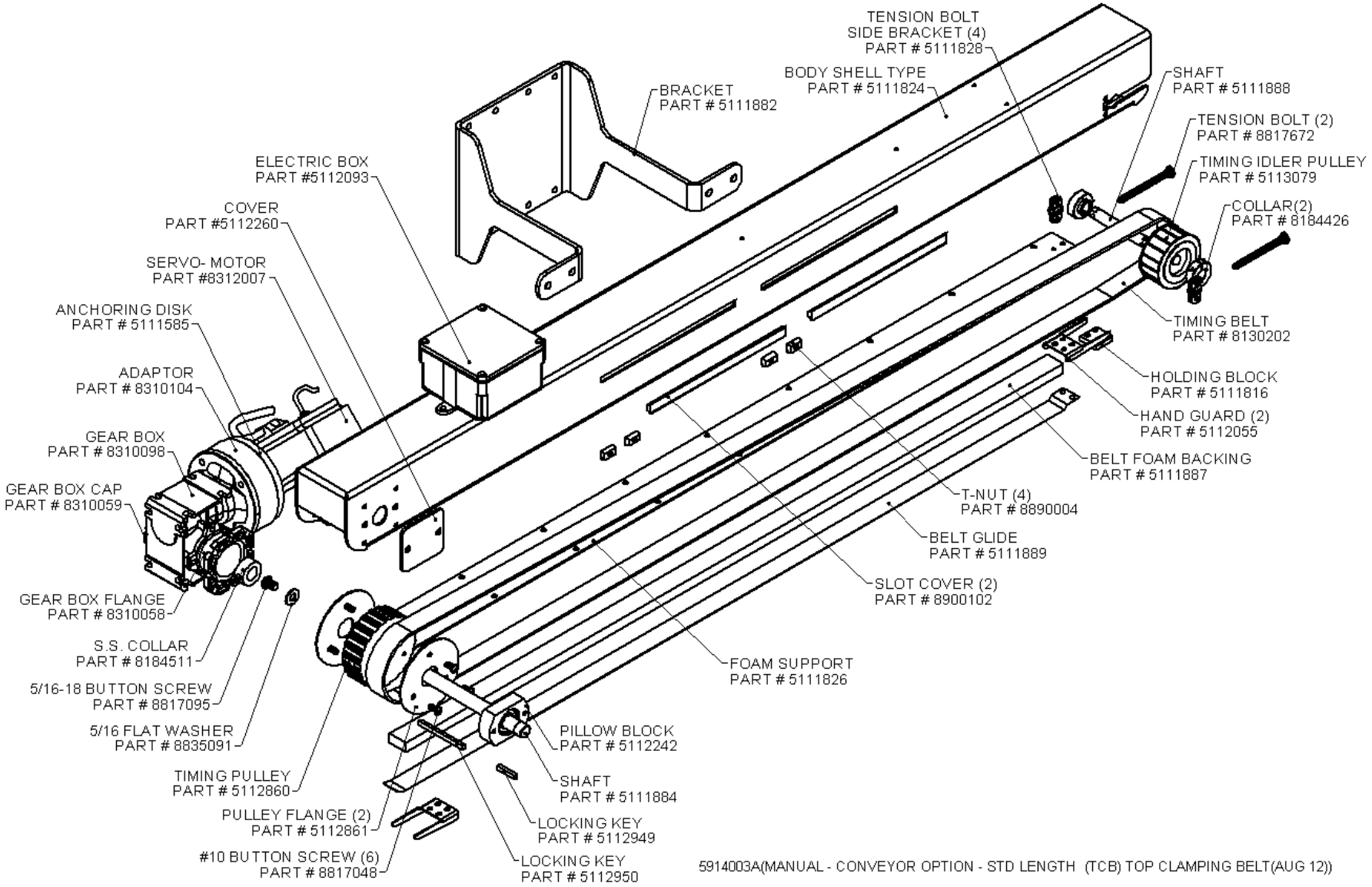
5912000A(MANUAL - ADJUSTMENT - STD VERTICAL ADJUST FOR CONVEYOR OPTION (AUG 12))

12.14 Top Clamping Belt

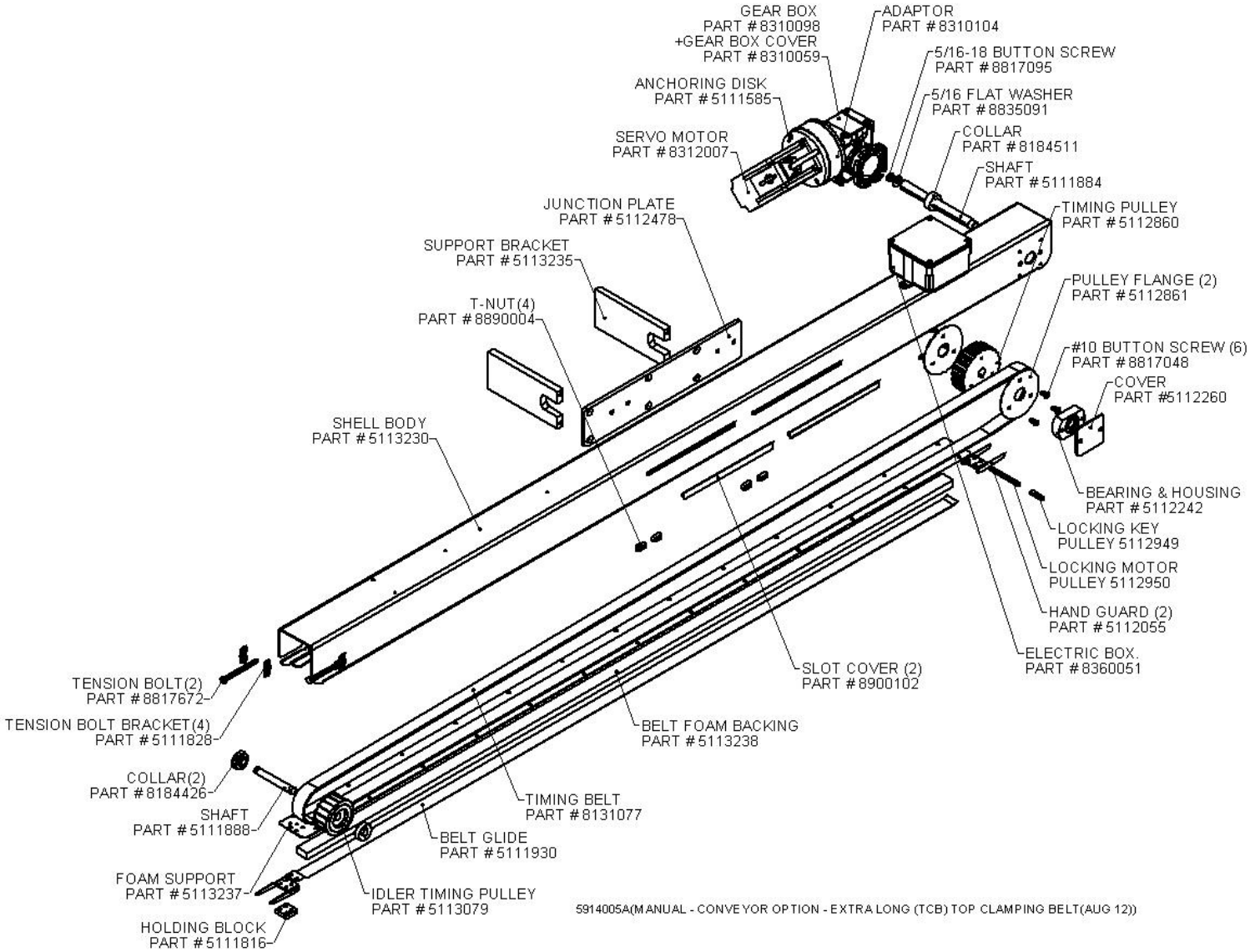
12.14.1 SHORT VERSION (24'')



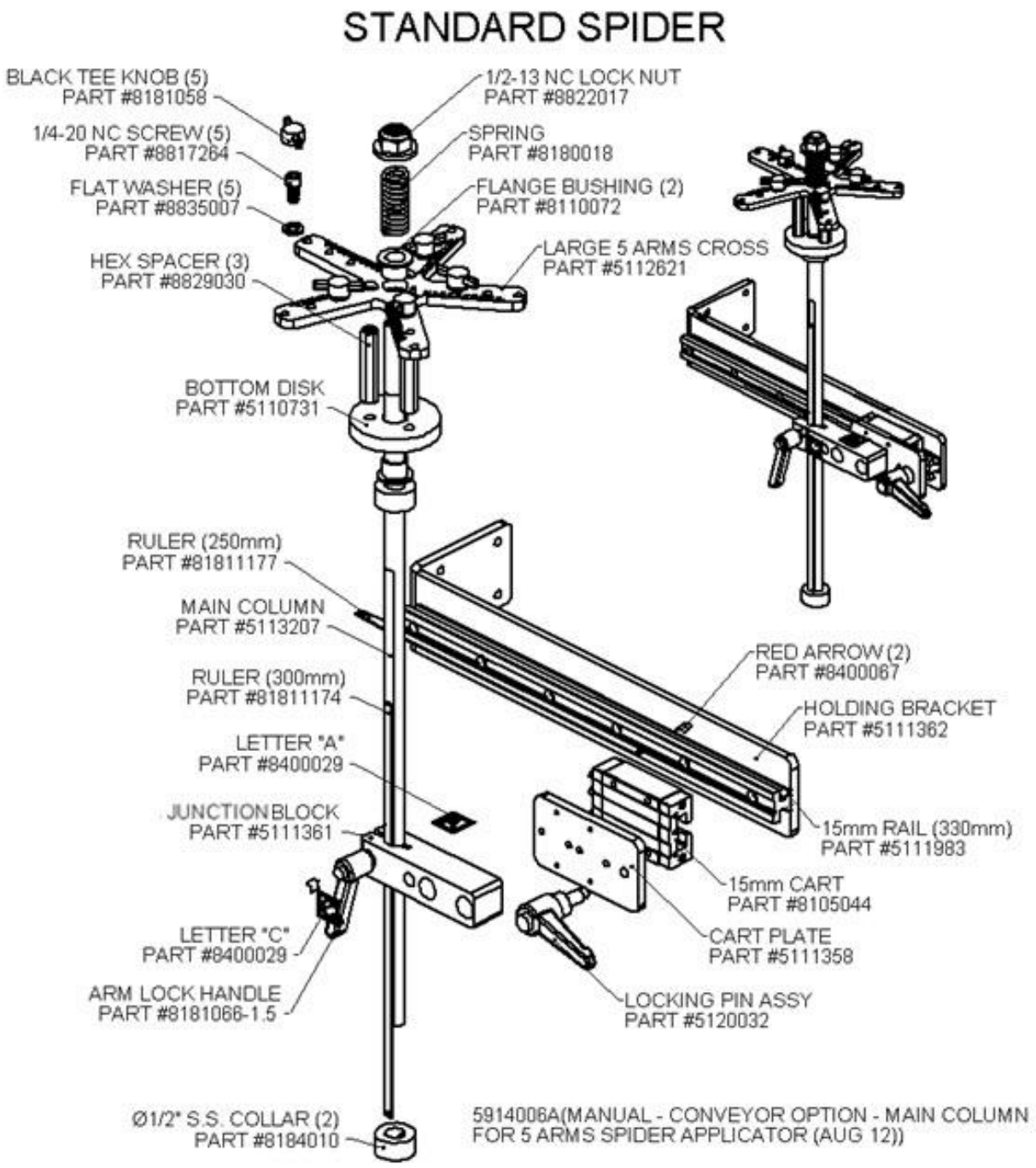
12.14.2 LONG VERSION (48')

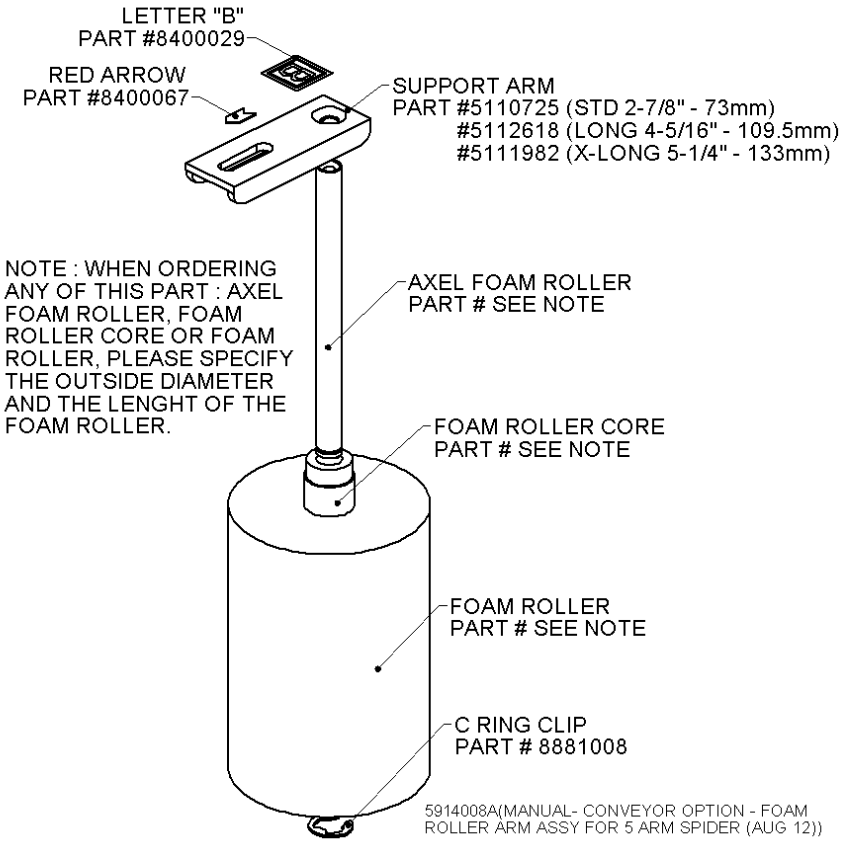


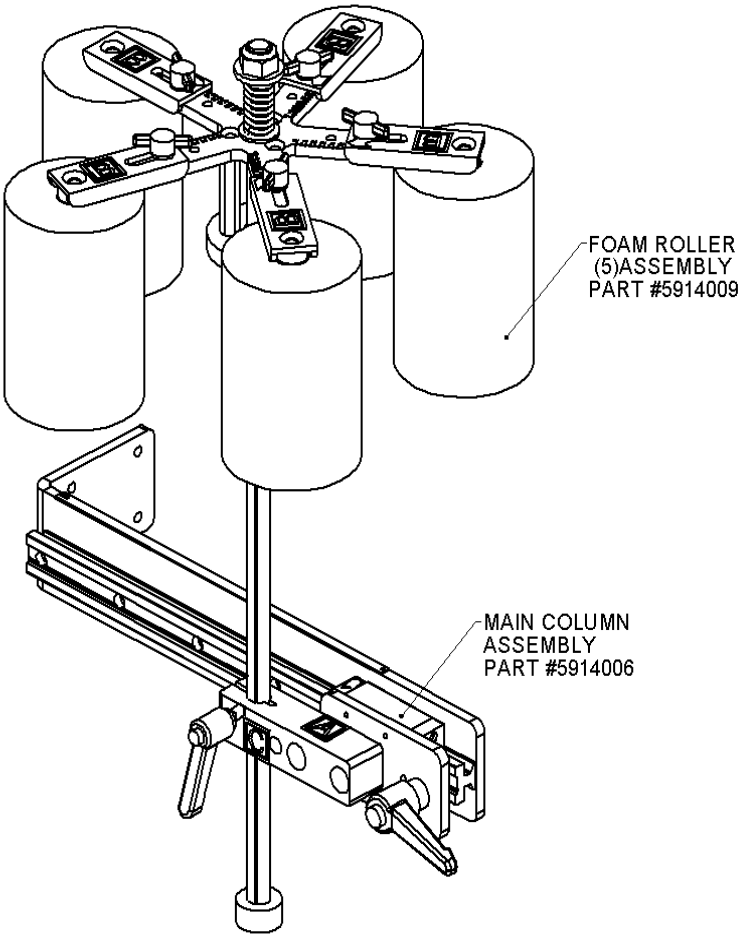
12.14.3 EXTRA LONG VERSION (70'')



12.15 Spider Tail gate applicator



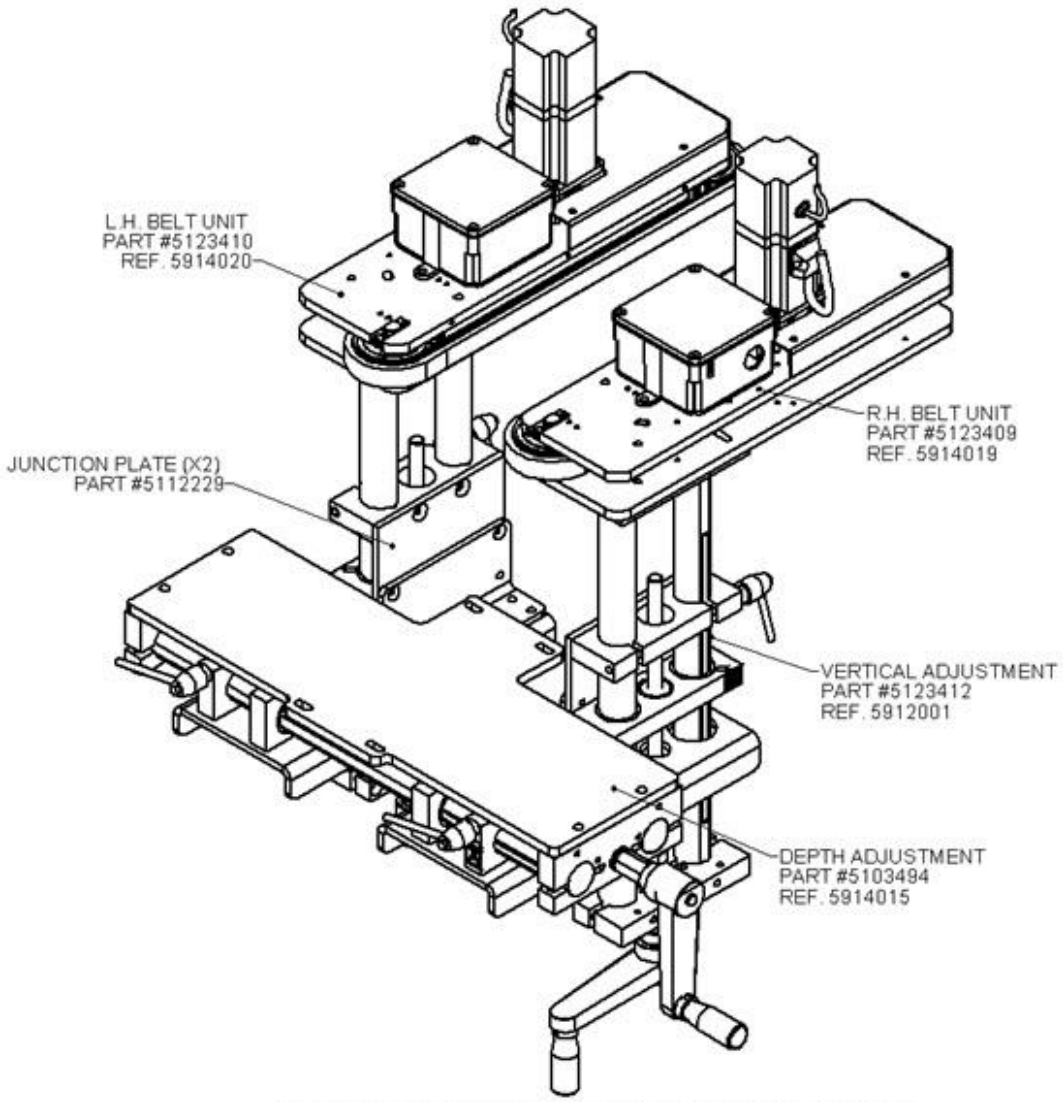

LETTER "B"
PART #8400029
RED ARROW
PART #8400067
SUPPORT ARM
PART #5110725 (STD 2-7/8" - 73mm)
#5112618 (LONG 4-5/16" - 109.5mm)
#5111982 (X-LONG 5-1/4" - 133mm)
NOTE : WHEN ORDERING ANY OF THIS PART : AXEL FOAM ROLLER, FOAM ROLLER CORE OR FOAM ROLLER, PLEASE SPECIFY THE OUTSIDE DIAMETER AND THE LENGHT OF THE FOAM ROLLER.
AXEL FOAM ROLLER
PART # SEE NOTE
FOAM ROLLER CORE
PART # SEE NOTE
FOAM ROLLER
PART # SEE NOTE
C RING CLIP
PART # 8881008
5914008A(MANUAL- CONVEYOR OPTION - FOAM ROLLER ARM ASSY FOR 5 ARM SPIDER (AUG 12))



5914028A(MANUAL - CONVEYOR OPTION -OVER VIEW 5 ARMS SPIDER APPLICATOR (AUG 12))

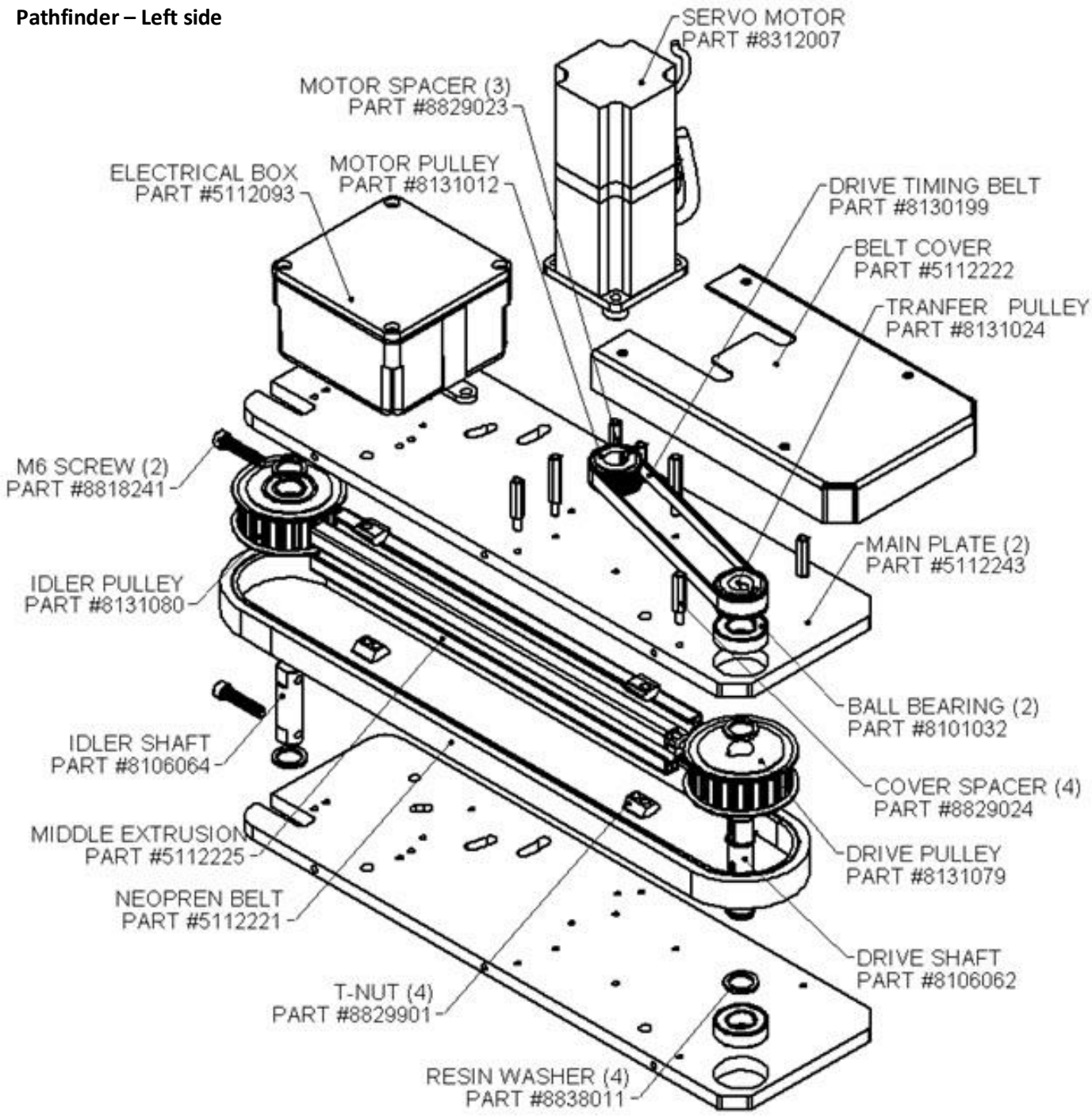
12.16 Pathfinder – Overview

12.16.1 Standard Pathfinder (Before August 2012)



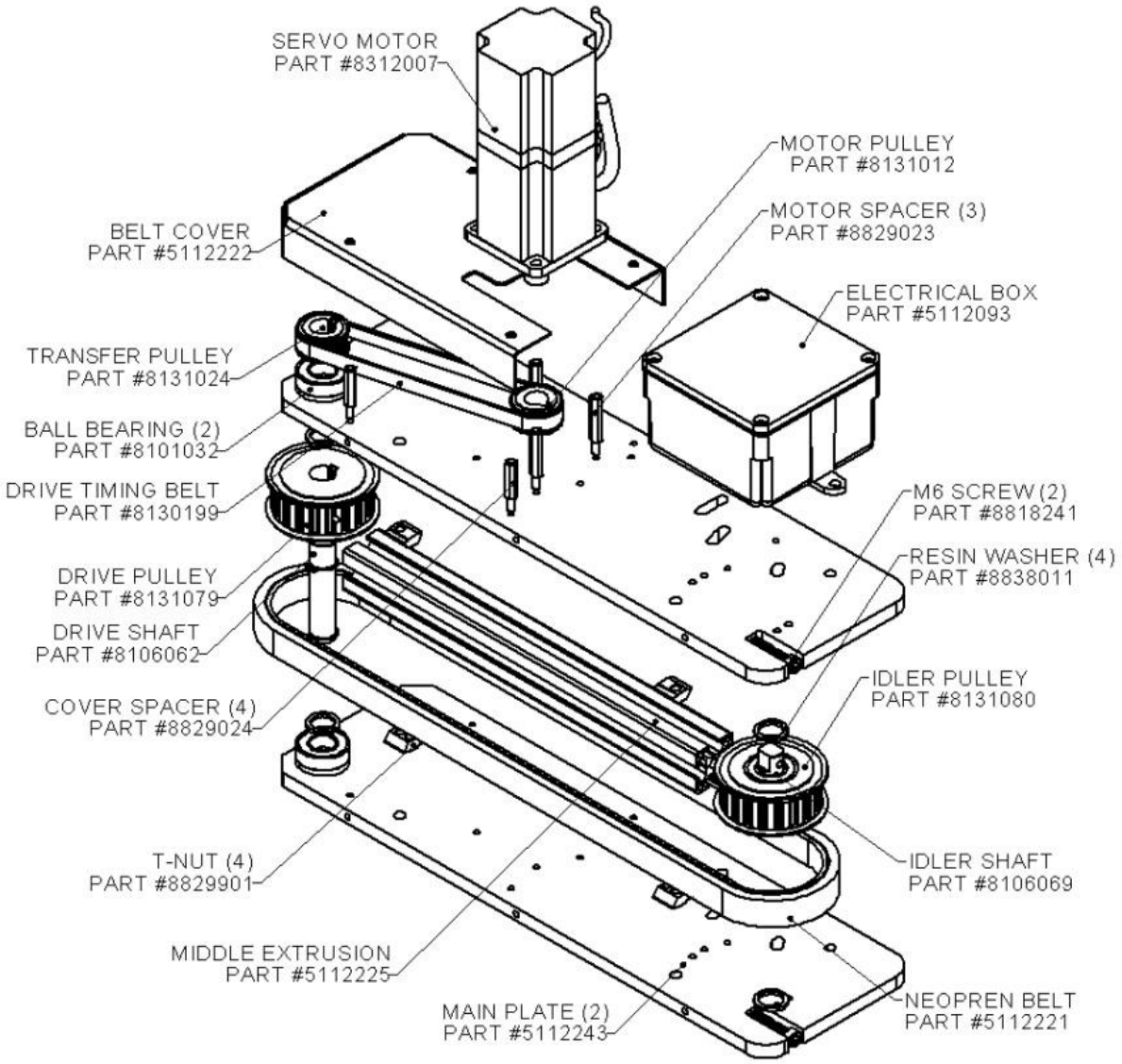
5914014A(MANUAL - CONVEYOR OPTION - STANDARD PATHFINDER (AUG 12))

Pathfinder – Left side



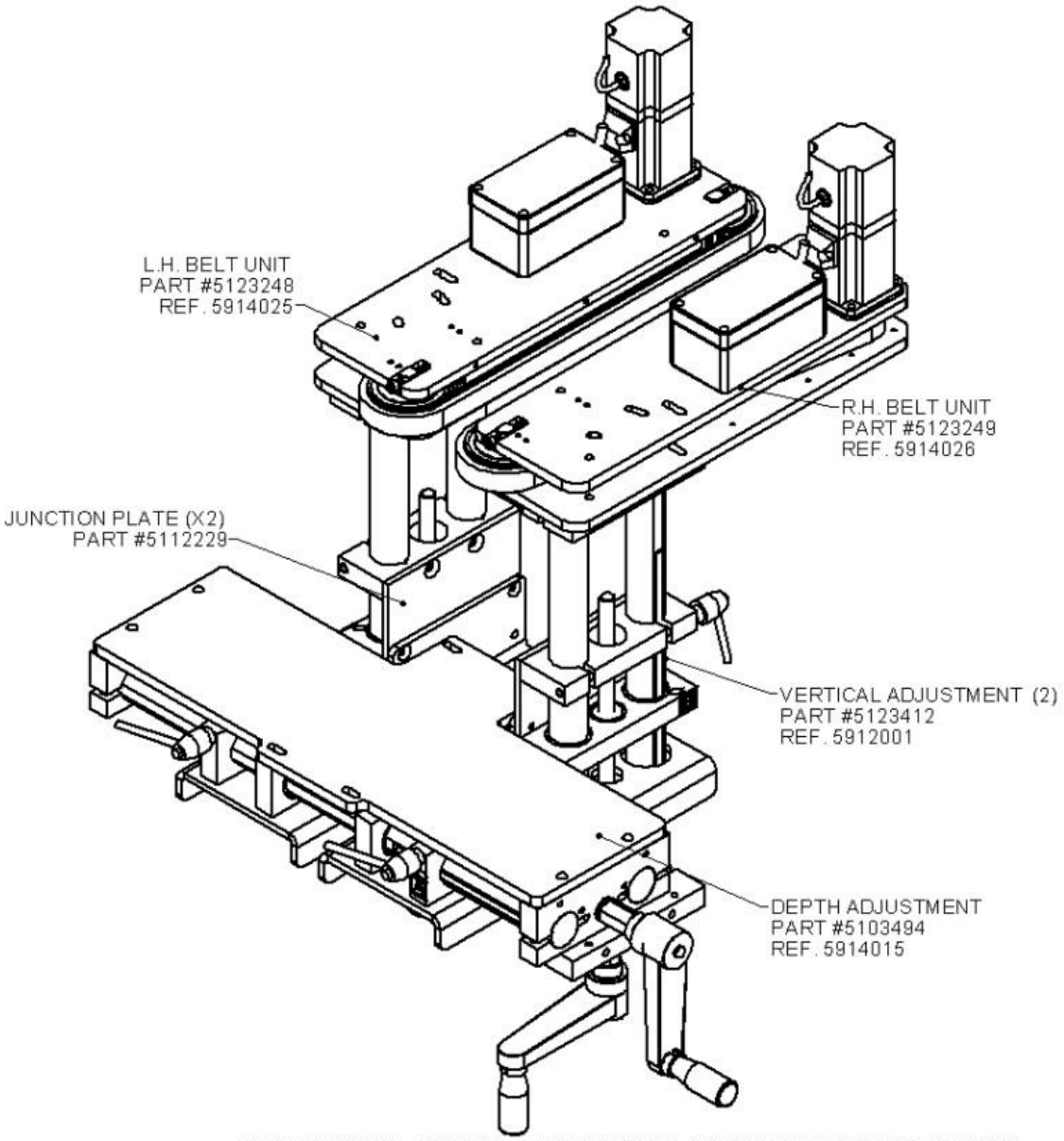
5914020A(MANUAL - CONVEYOR OPTION - L.H. BELT UNIT STD, PATHFINDER (AUG 12))

Pathfinder – Right side



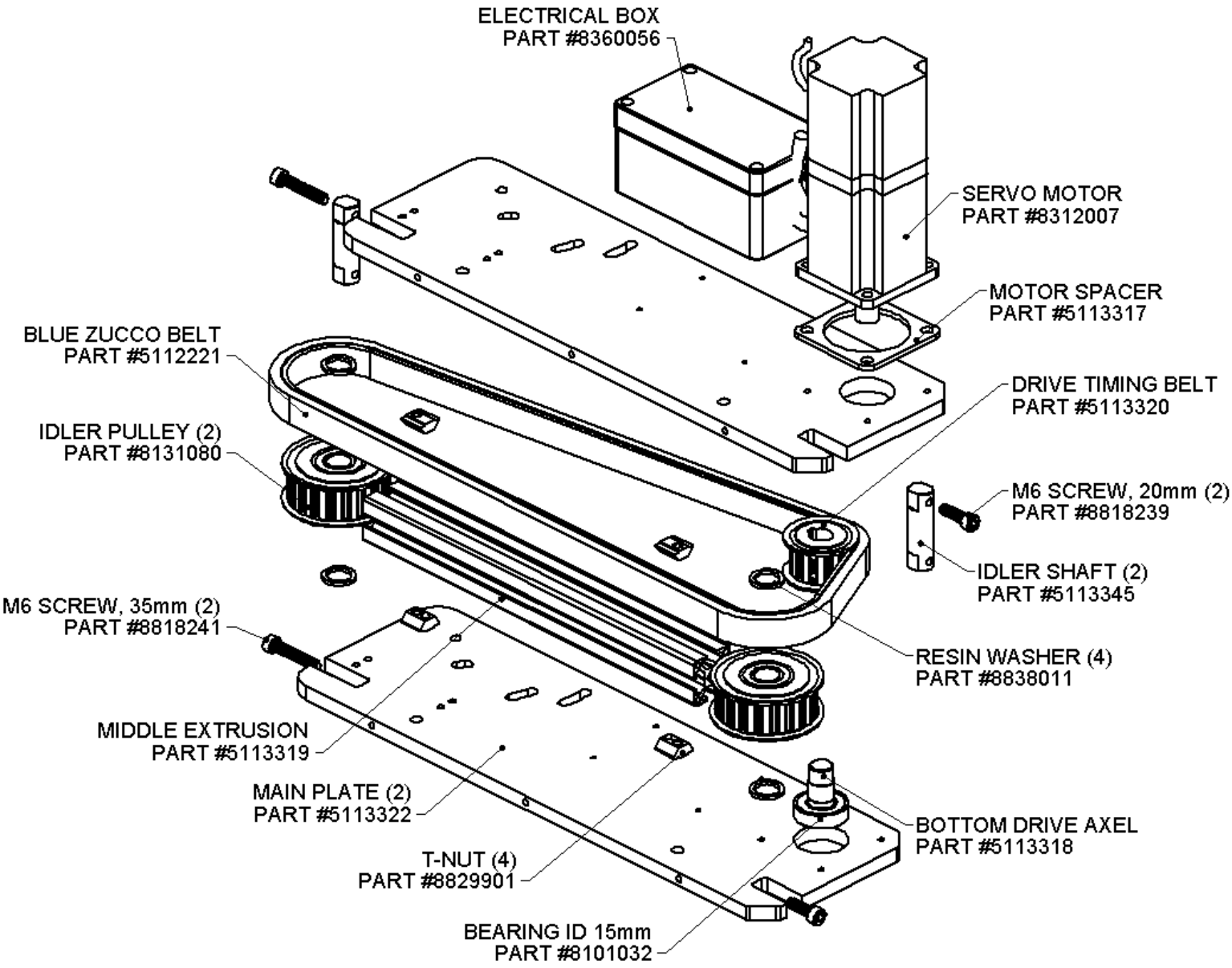
5914019A(MANUAL - CONVEYOR OPTION - R.H. BELT UNIT STD, PATHFINDER (AUG 12))

12.16.2 Standard Pathfinder (After August 2012)



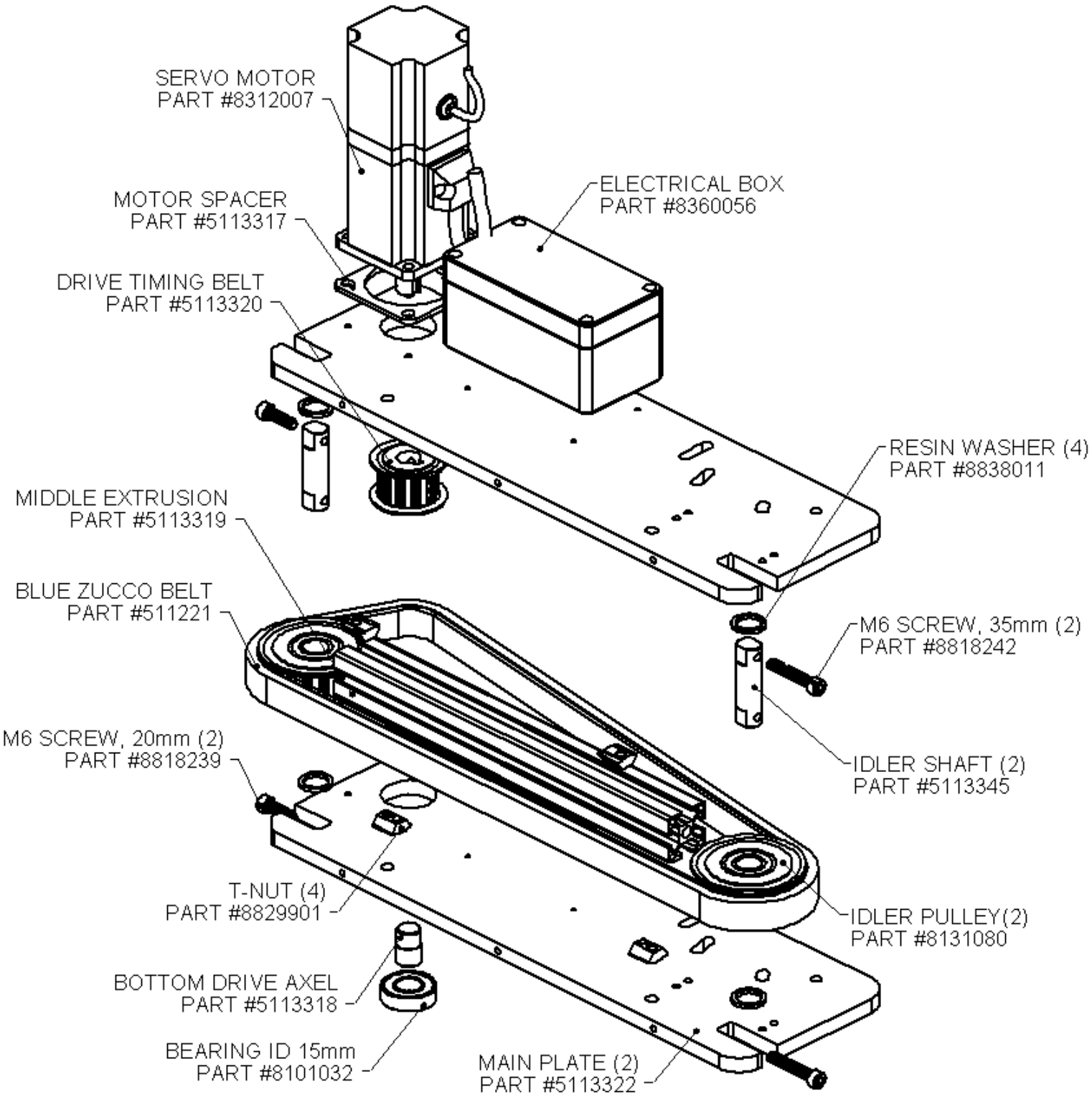
5914027A(MANUAL - CONVEYOR OPTION -NEW STD (BLUE ZUCCO) PATHFINDER (SEPT 12))

Pathfinder – Left side



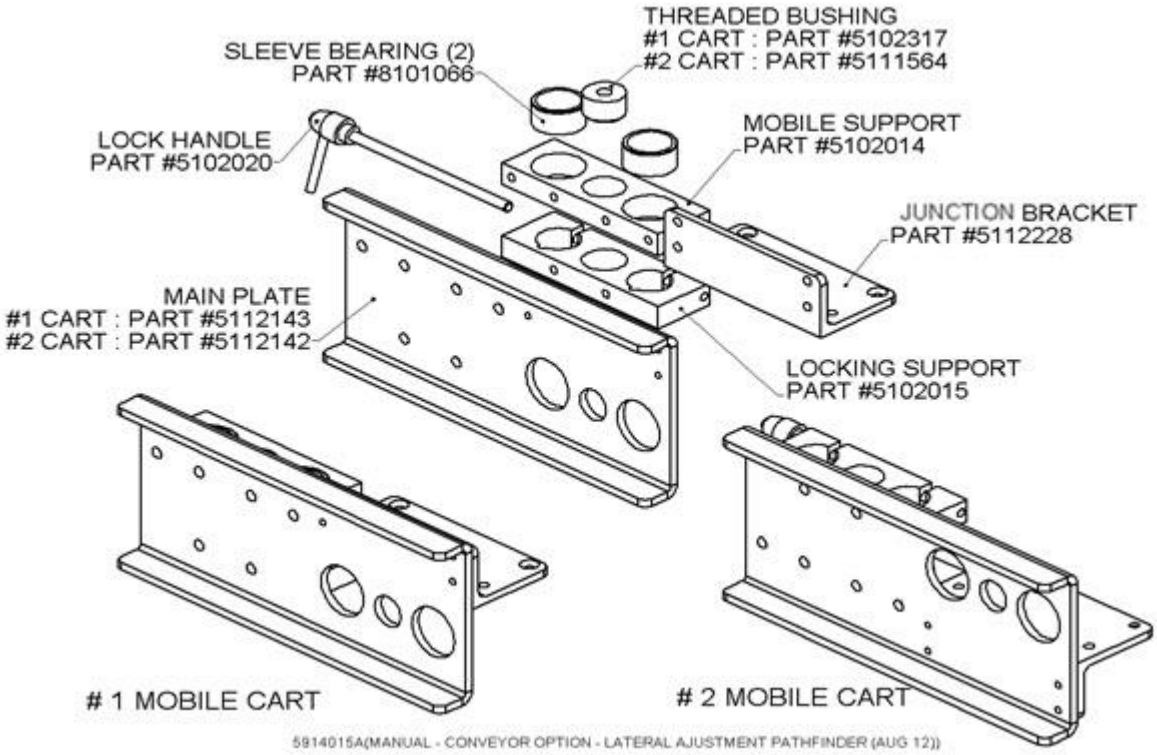
5914025A(MANUAL - CONVEYOR OPTION -NEW L.H. BELT UNIT, BLUE ZUCCO, PATHFINDER (SEPT 12))

Pathfinder – Right side

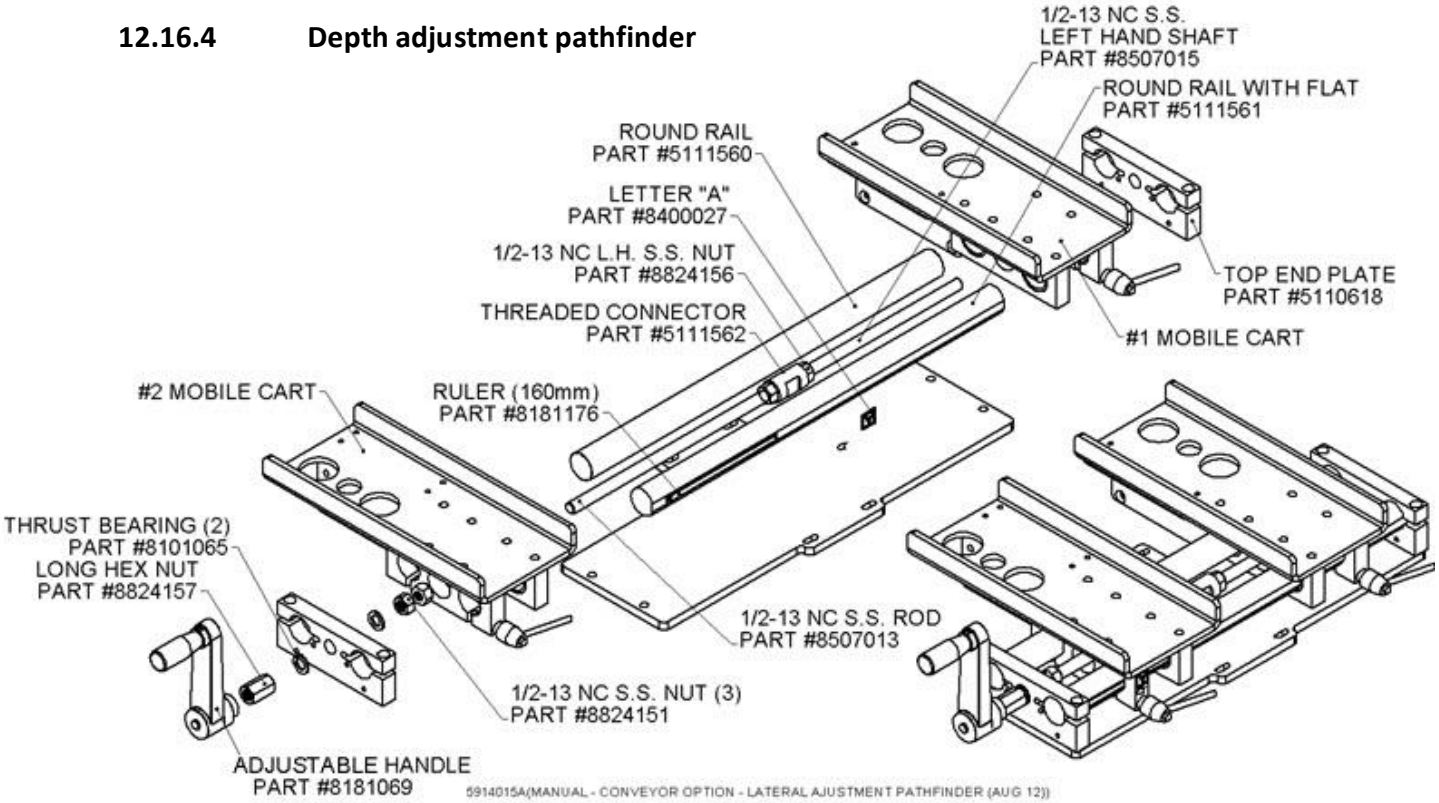


5914026A(MANUAL - CONVEYOR OPTION -NEW R.H. BELT UNIT BLUE ZUCCO, PATHFINDER (SEPT 12))

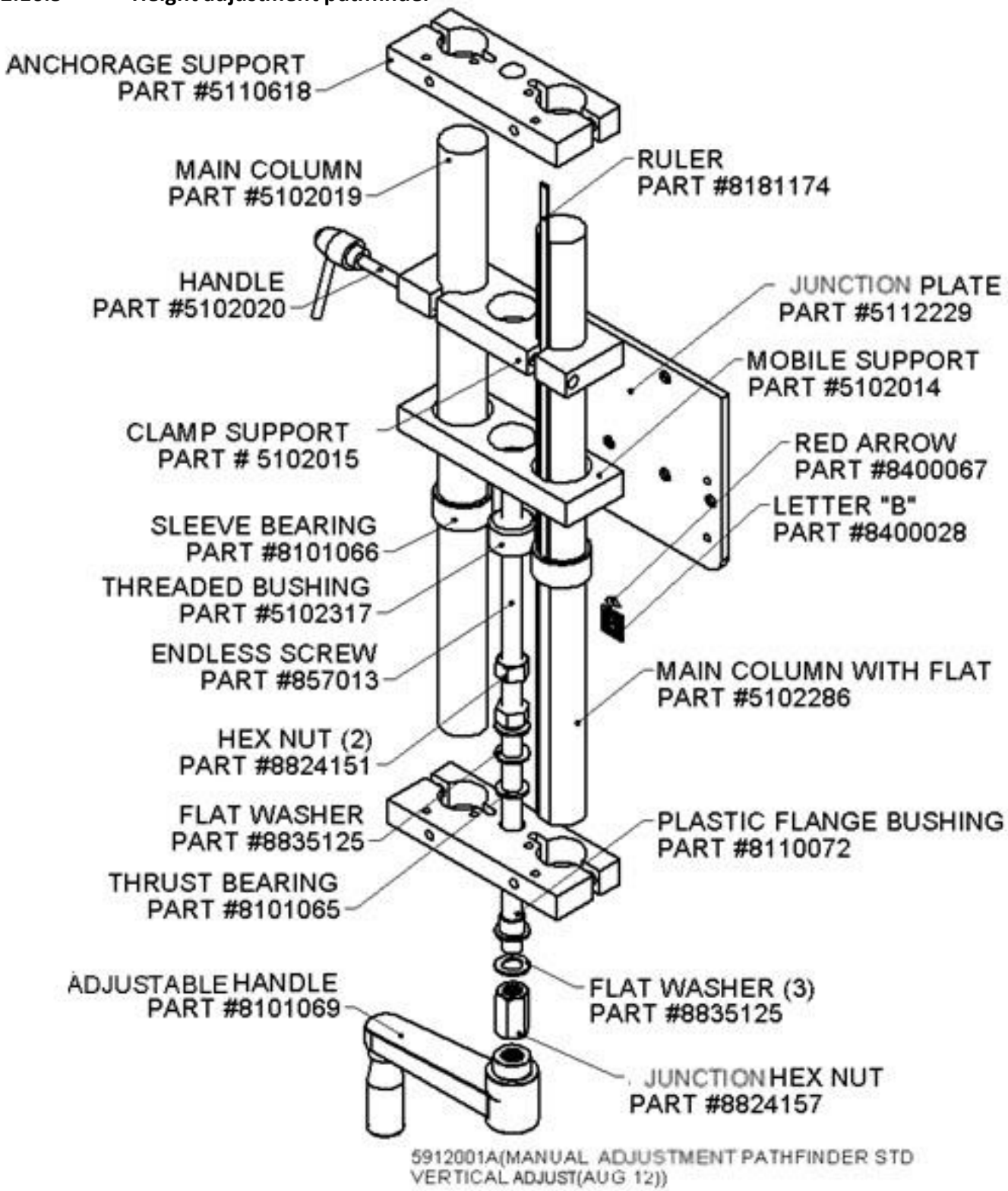
12.16.3 Mobile cart depth adjustment



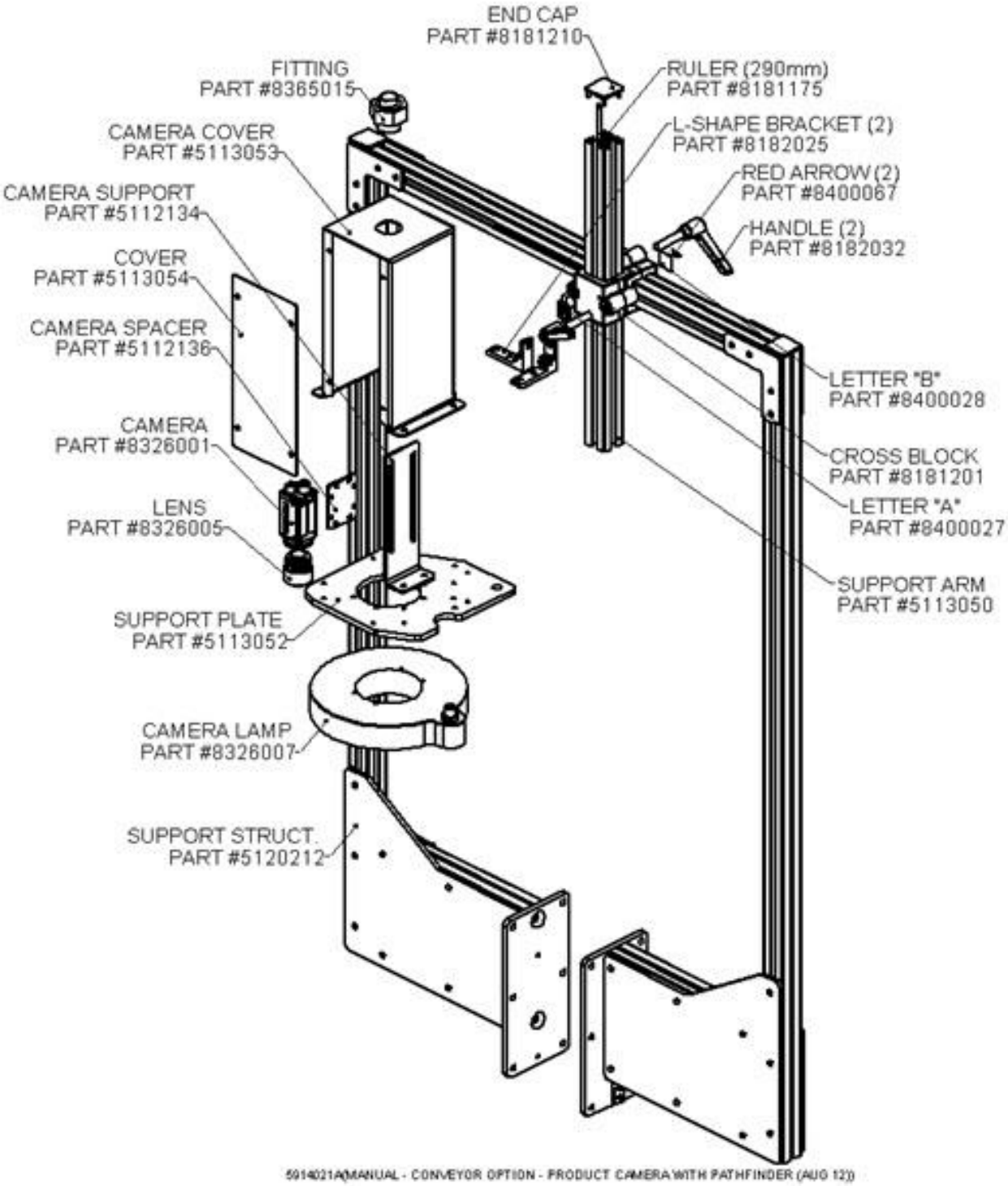
12.16.4 Depth adjustment pathfinder

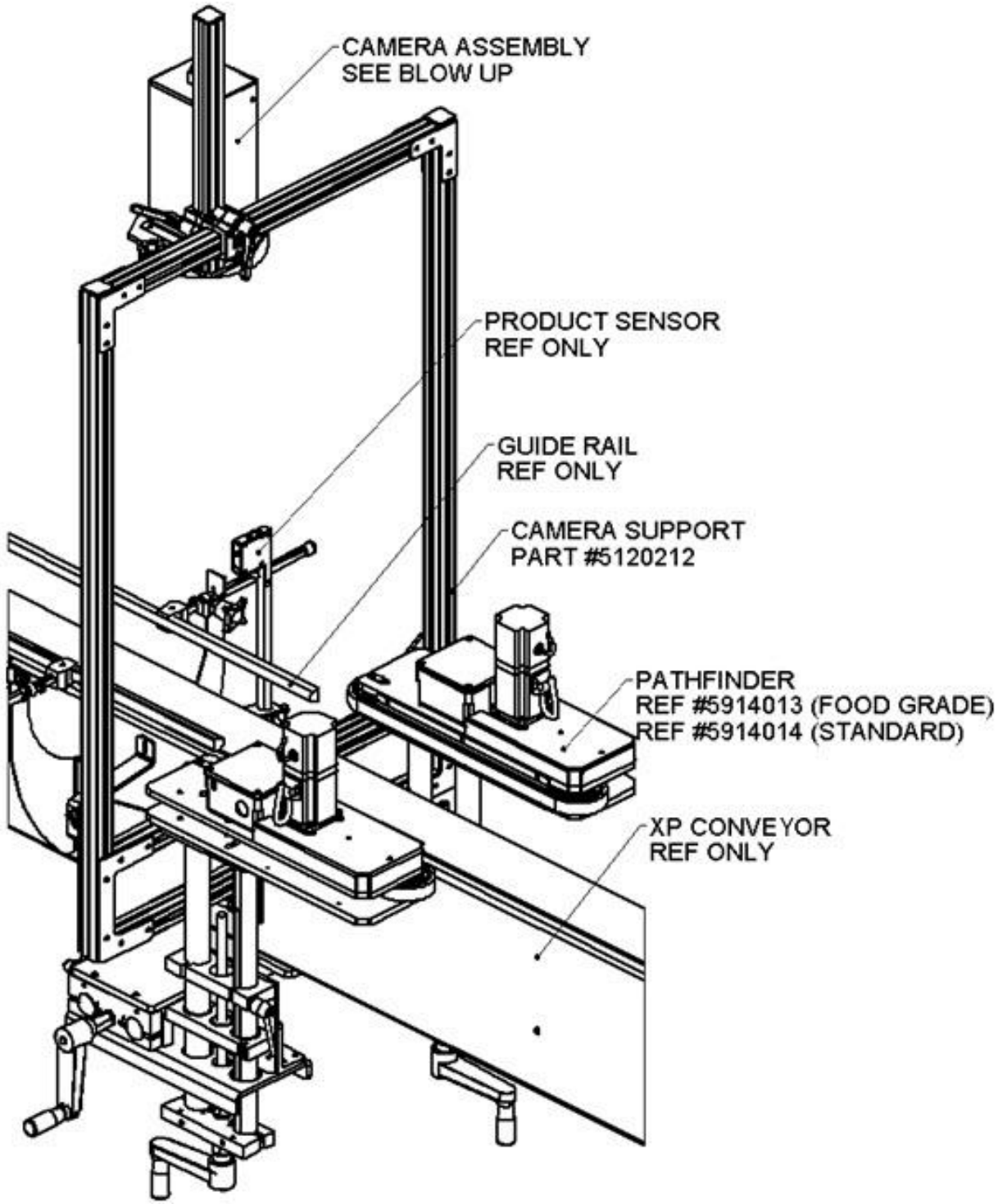


12.16.5 Height adjustment pathfinder



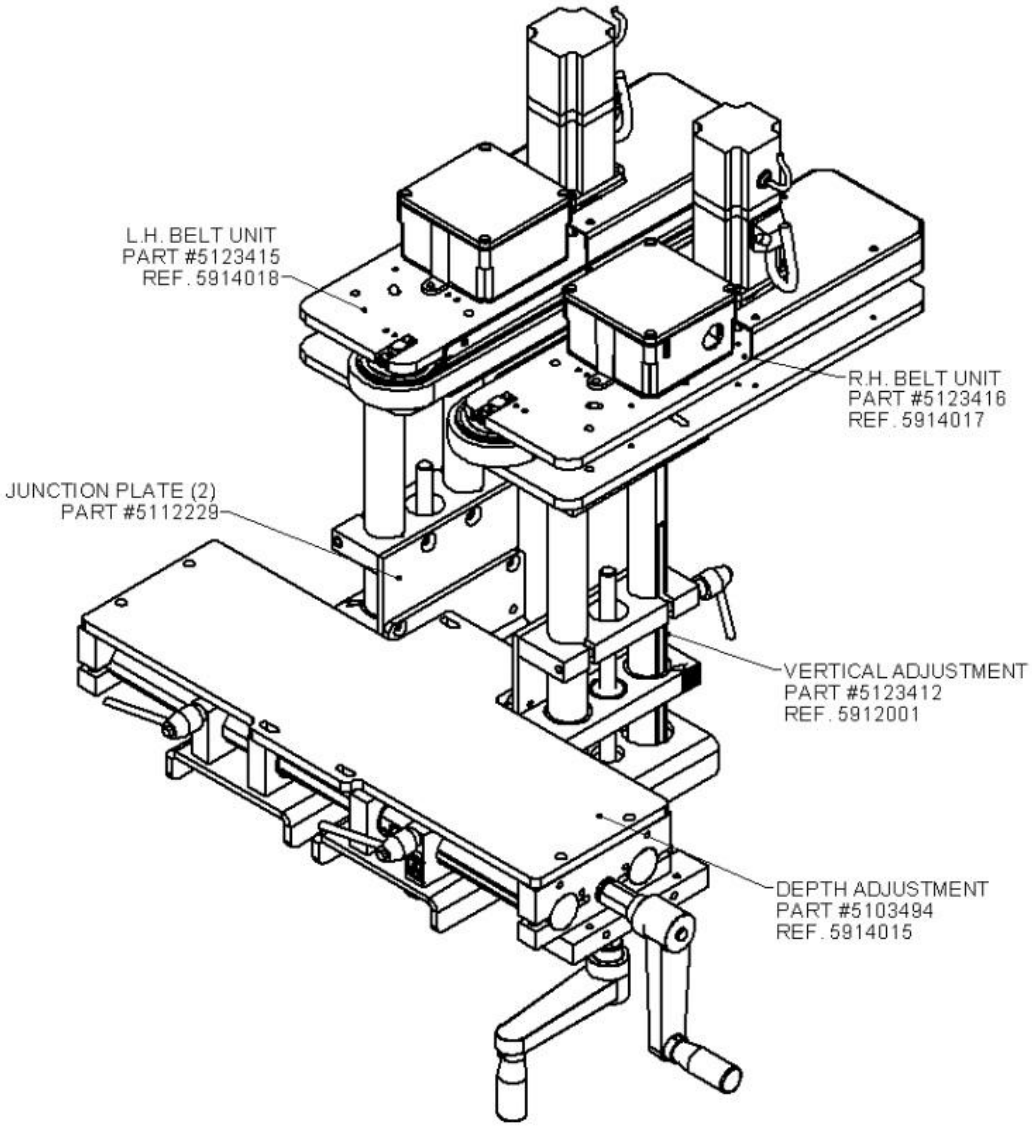
12.17 Camera system





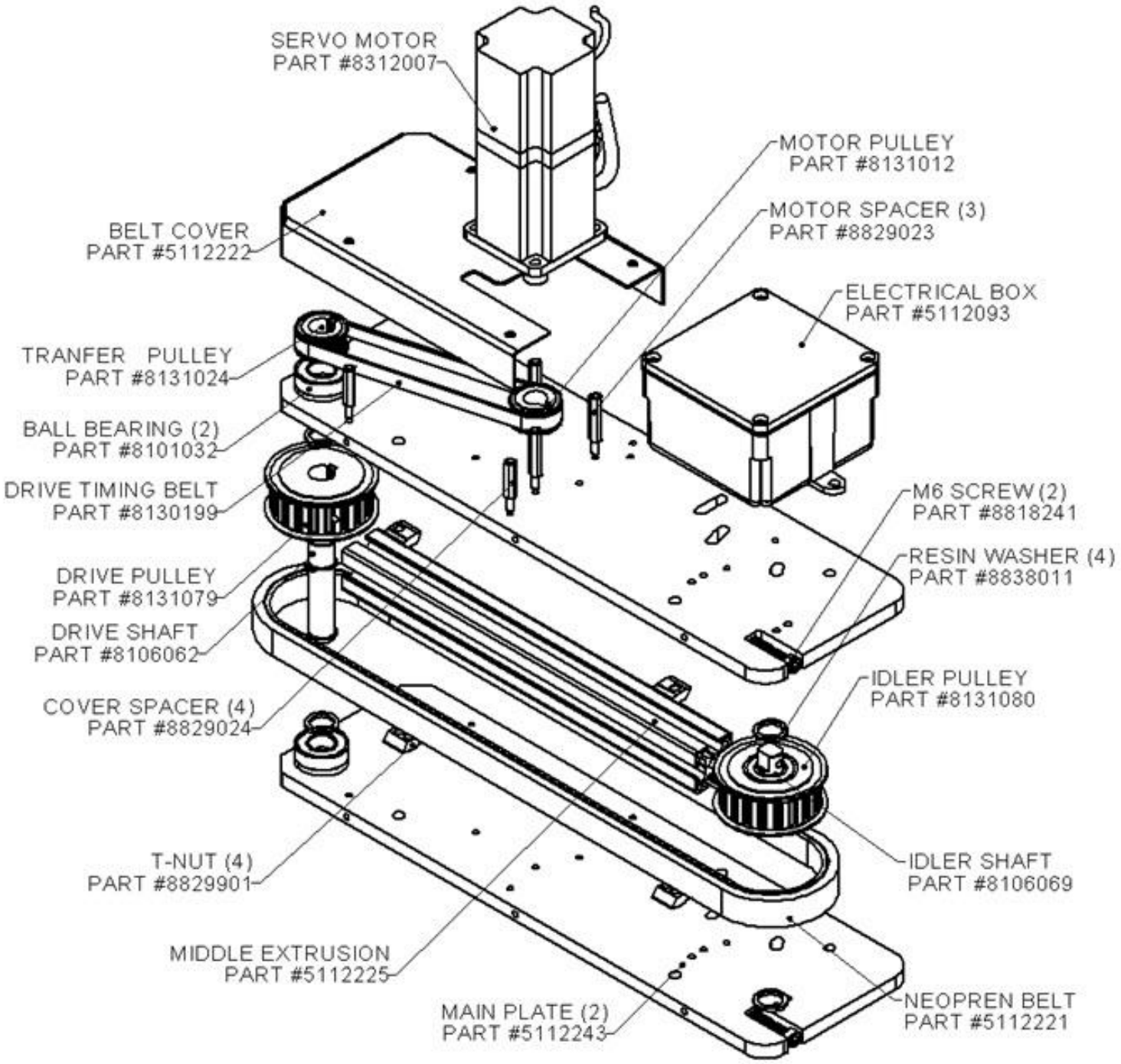
5914021A(MANUAL - CONVEYOR OPTION - PRODUCT CAMERA WITH PATHFINDER (AUG 12))

12.17.1 DR OLS – Adjustment (Before August 2012)



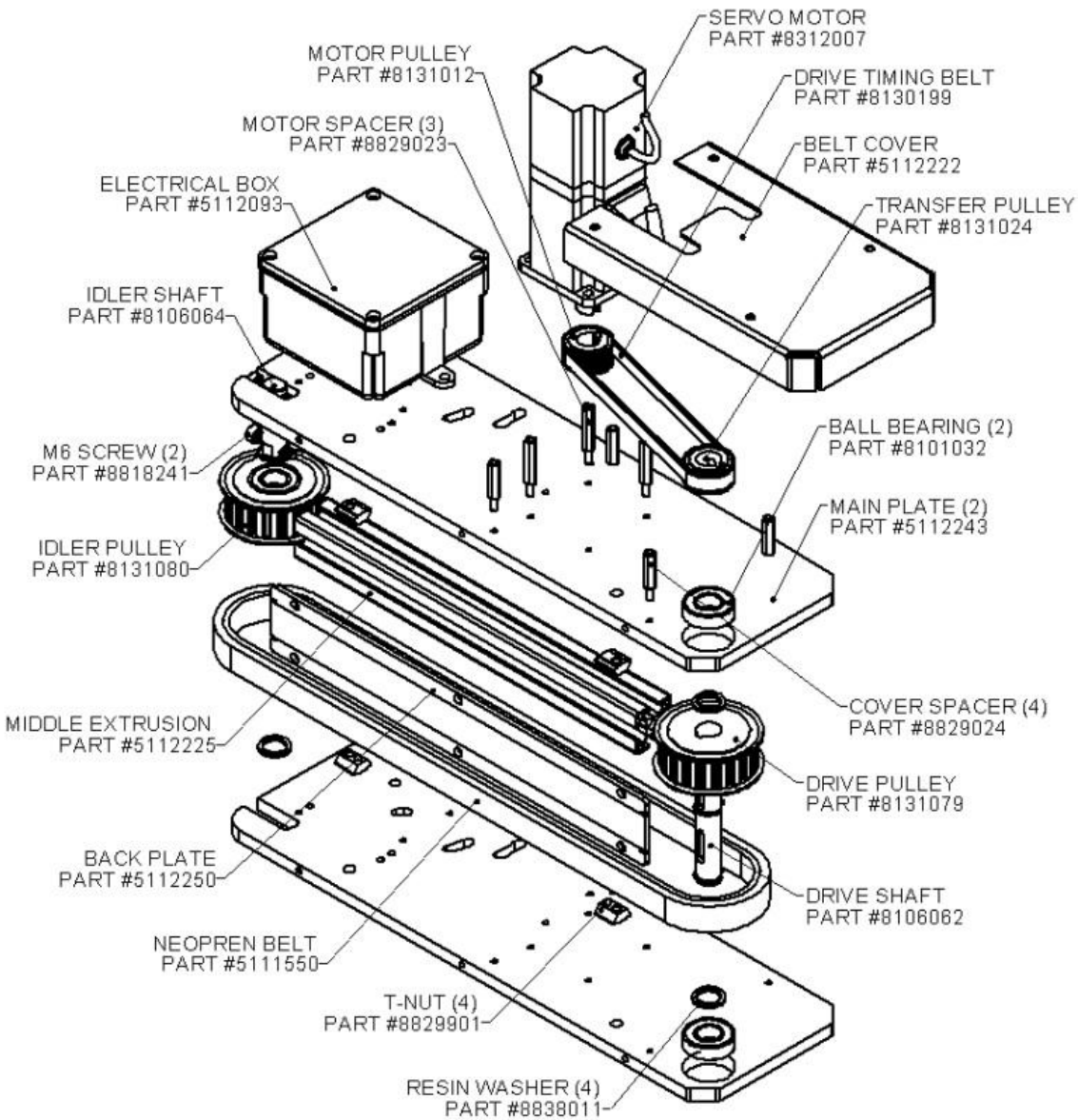
5914013A(MANUAL - CONVEYOR OPTION - FOOD GRADE PATHFINDER (AUG 12))

DR OLS – Right side



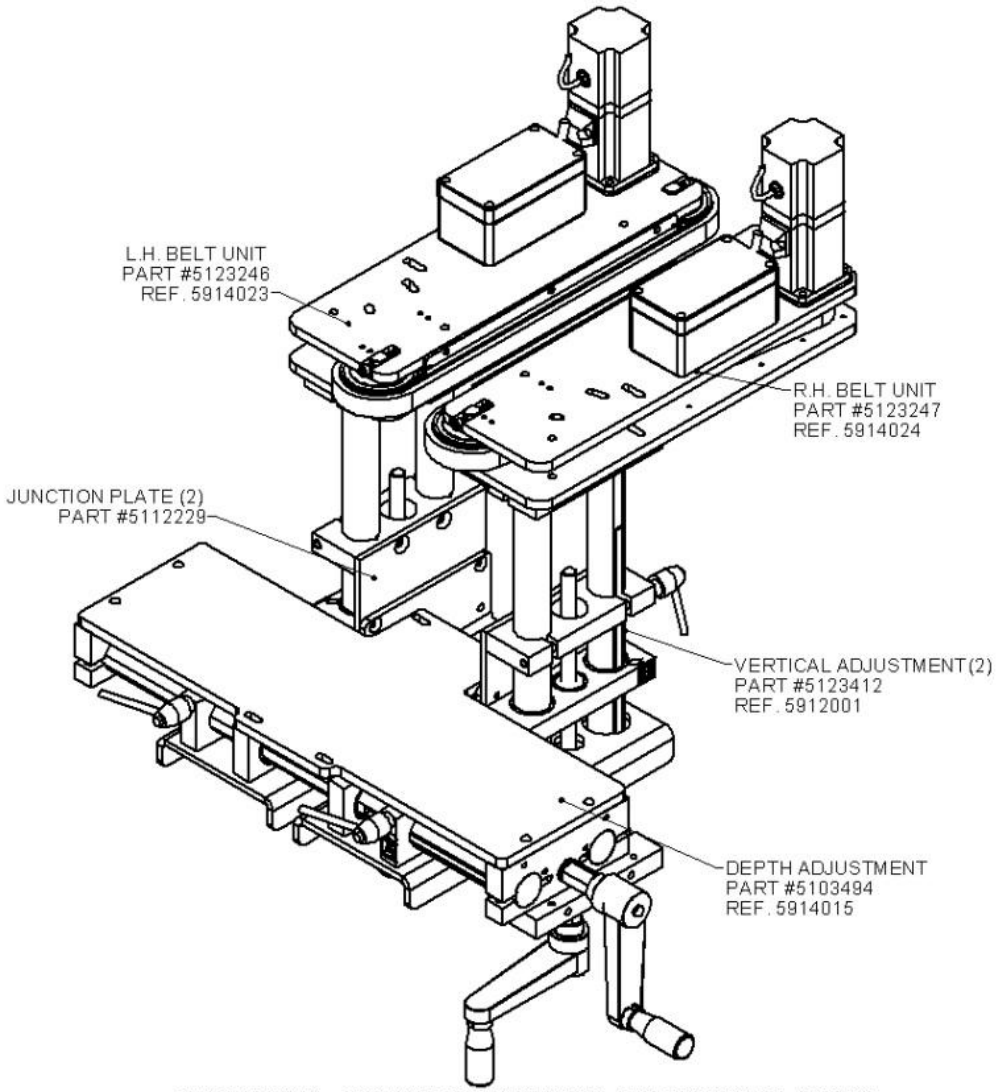
5914019A(MANUAL - CONVEYOR OPTION - R.H. BELT UNIT STD, PATHFINDER (AUG 12))

DR OLS – Left side



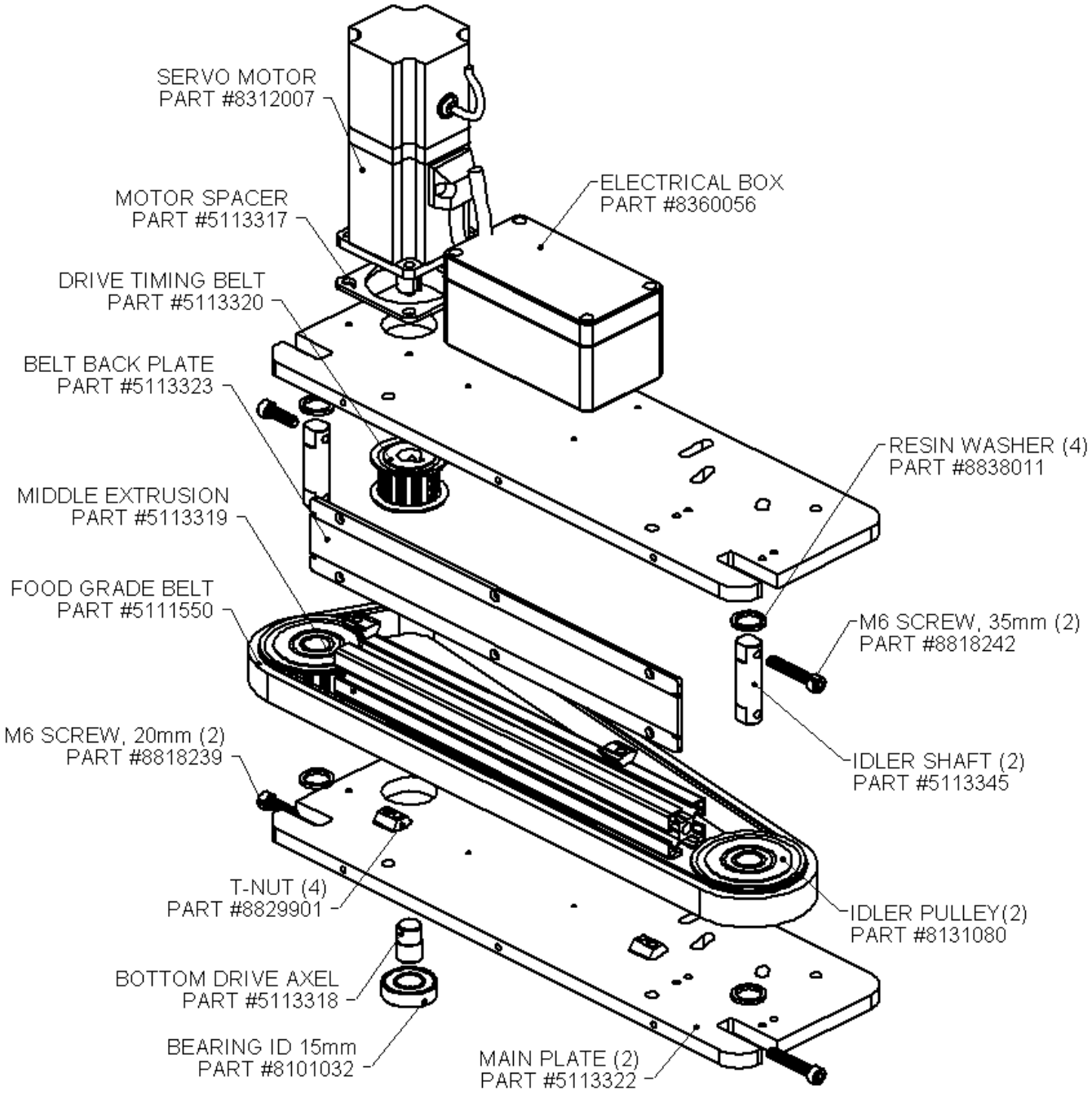
5914018A(MANUAL - CONVEYOR OPTION - L.H. BELT UNIT FOOD GRADE, PATHFINDER (AUG 12))

12.17.2 DR OLS – Adjustment (After August 2012)



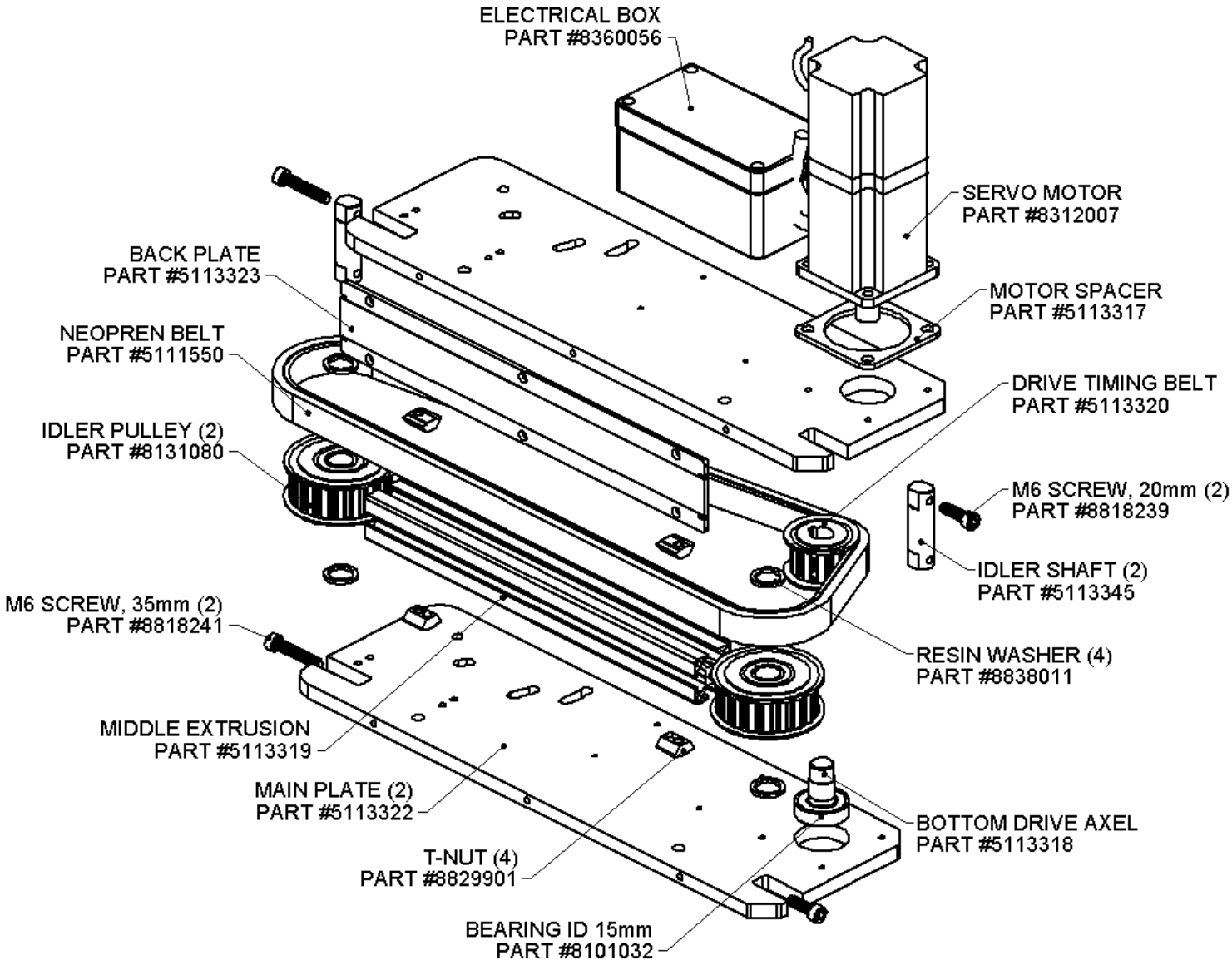
5914022A(MANUAL - CONVEYOR OPTION -NEW FOOD GRADE PATHFINDER (SEPT 12))

DR OLS – Right side



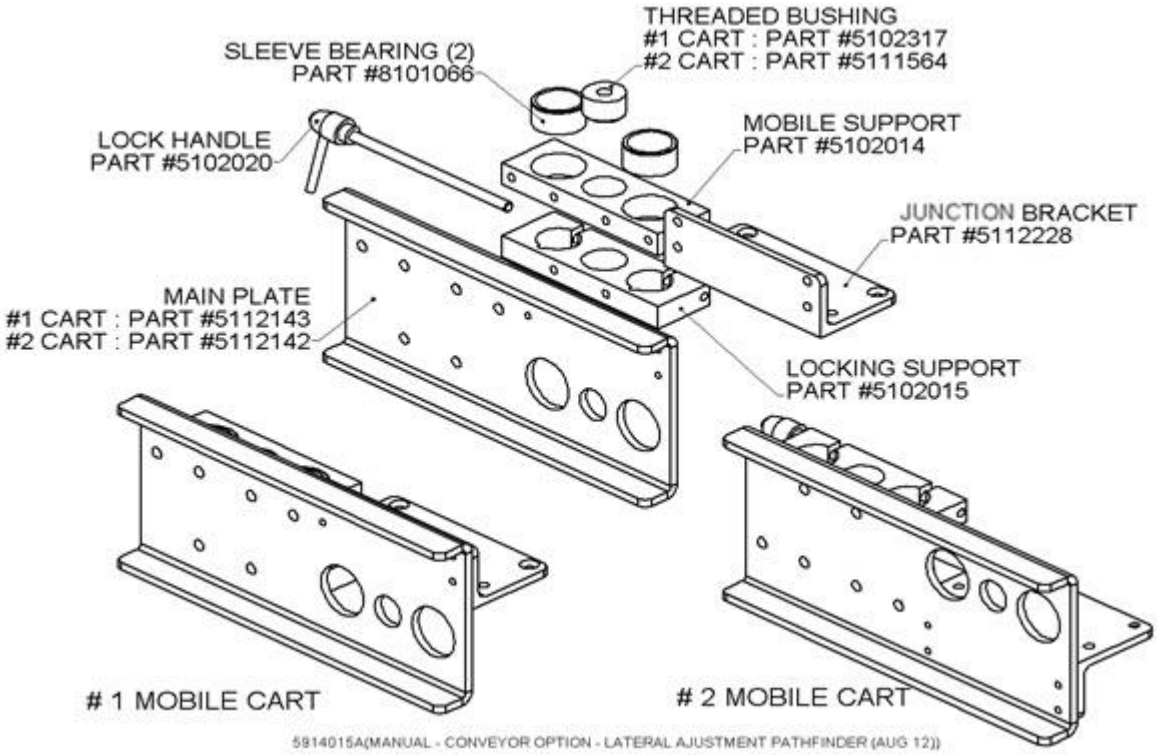
5914024A(MANUAL - CONVEYOR OPTION -NEW R.H. BELT UNIT FOOD GRADE, PATHFINDER (SEPT 12))

DR OLS – Left side

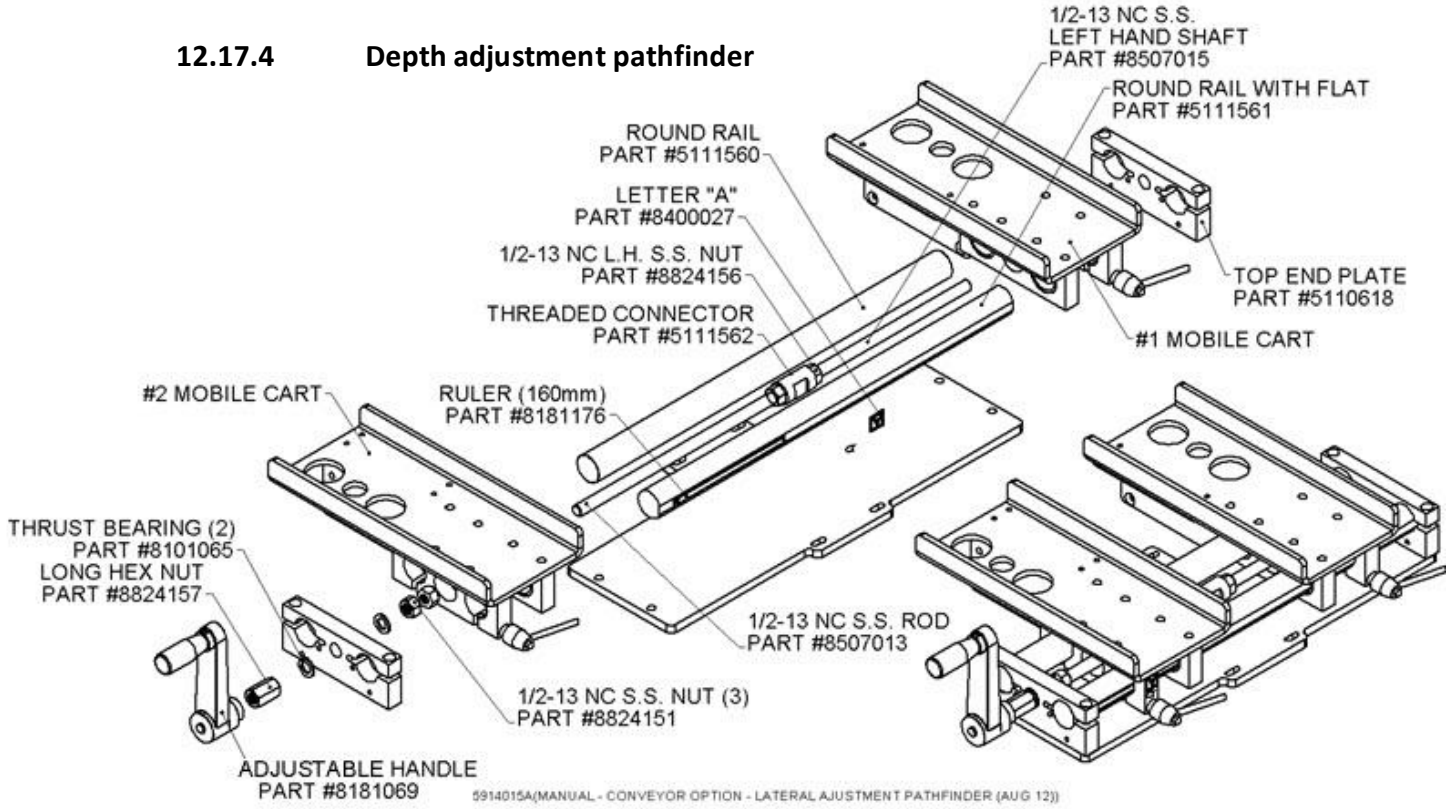


5914023A(MANUAL - CONVEYOR OPTION -NEW L.H. BELT UNIT FOOD GRADE, PATHFINDER (SEPT 12))

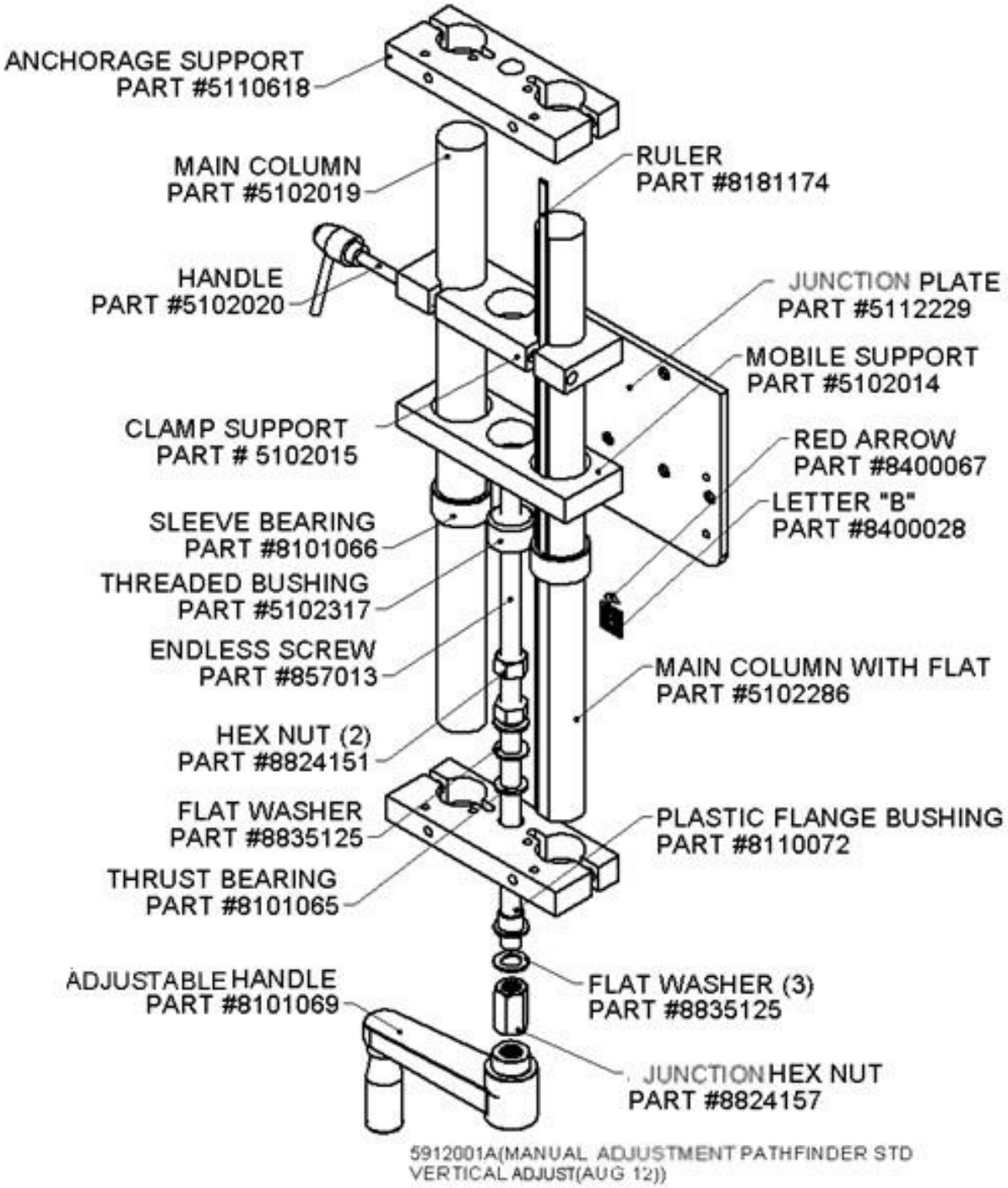
12.17.3 Mobile cart depth adjustment



12.17.4 Depth adjustment pathfinder



12.17.5 Height adjustment pathfinder



13 MANUFACTURER'S COORDINATES

Ultimately, the dealer which sold you the machine should be your first contact as they have been trained to perform any work on these devices and troubleshooting.

Should you require any additional information about our equipment, feel free to call us

NITA LABELING EQUIPMENT INC.

1051 du VIGER STREET

TERREBONNE, QUEBEC, CANADA

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FAX : 450-961-4240

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