



1318 QUAKER CIRCLE P.O. BOX 589 SALEM, OHIO 44460

PHONE: 330-332-1800

FAX: 330-332-2144

[www.ctmlabelingsystems.com](http://www.ctmlabelingsystems.com)

Designers and Manufacturers of Pressure Sensitive Labeling  
Equipment and Custom Product Handling

**360a Powered Unwind  
MAINTENANCE  
&  
SERVICE MANUAL**

# TABLE OF CONTENTS

**INTRODUCTION .....1**

**DISPLAY PANEL .....2**

    KEY TYPES..... 2-1

    ALARMS..... 2-1

    MAIN MENU..... 2-2

    SETUP MENU (main setup)..... 2-3

    LABEL SETUP..... 2-3

        Label Sensor..... 2-3

        Label Stop Compensation..... 2-3

        Label Formats..... 2-3

        Label Length..... 2-3

        Label Stop..... 2-3

    APPLICATOR SETUP..... 2-3

        Web Speed..... 2-3

        Air Blast..... 2-3

        Extended Air Assist..... 2-3

        Pre-Dispense..... 2-3

        Over Speed..... 2-3

        Label Profile..... 2-3

        Multi-Panel..... 2-3

    PRODUCT SETUP..... 2-4

        Label Placement..... 2-4

        Detector Lockout..... 2-4

        Encoder Option..... 2-4

    CONFIGURATION..... 2-4

        Applicator Type..... 2-4

        Missing Label..... 2-5

        Crossover..... 2-5

        Multi-Label..... 2-5

        Skip Count..... 2-5

        Max And Slew Speeds..... 2-5

        I/O Diagnostics..... 2-5

        Reset Label Sensor..... 2-5

        Unwind Motion..... 2-6

        Unwind Accel..... 2-6

        Unwind Brake..... 2-6

        Low Label..... 2-7

    SPECIAL OPTIONS..... 2-8

        Drive Parameters..... 2-8

**REAR PANEL .....3**

**SETUP PROCEDURES ..... 4**

    THREADING LABELS..... 4-2

UNWIND BRAKE SETUP.....	4-3
Setting Iso and Drive Board.....	4-4
Setting Roll Sensor.....	4-5
Setting Min and Max Brake Voltage.....	4-5
UNWIND DANCER SETUP.....	4-6
Setting Loop Sensor.....	4-6
<b>WEB PATH DIAGRAMS.....</b>	<b>5</b>
MERGE APPLICATOR .....	5-1
AIR BLOW APPLICATOR .....	5-2
MERGE APPLICATOR (stiff label option).....	5-3
MERGE APPLICATOR (stiff label option to roller).....	5-4
<b>GENERAL MAINTENANCE .....</b>	<b>6</b>
DAILY .....	6-2
WEEKLY .....	6-2
MONTHLY.....	6-2
SEMI-ANNUAL .....	6-3
<b>TROUBLESHOOTING.....</b>	<b>7</b>
DISPLAY FAULTS .....	7-1
<b>ACCESSORIES .....</b>	<b>8</b>
<b>SPARE PARTS.....</b>	<b>9</b>
CORE UNIT.....	9-1
UNWIND-REWIND.....	9-2
MERGE.....	9-3
AIR BLOW, RVB, FFS .....	9-4
TAMP.....	9-6
OPTIONS.....	9-7

# INTRODUCTION

The CTM Integration 360a Powered Unwind is a high-speed applicator used to apply pressure sensitive labels to moving products on a production line. It is essentially a self-contained module that may be mounted in almost any position to apply labels to the top, bottom, or sides of packages as they pass by on a production line. The unwind and rewind modules are powered to handle the web better at higher speeds. When running above 2100 in/min with a label length longer than 4 inches, it is recommended to go to this applicator.

The CTM Integration 360a Powered Unwind is unique in that the main module can be adapted to three different types of applicators: Air Blow, Merge, or Tamp by changing the nose assembly. The powered unwind unit differs from the standard line of 360a applicators in the sense they are hand specific. Because of the powered unwind this applicator will have to be ordered left or right handed and cannot be changed in the field.

If your application needs change in the future, a different nose assembly may be purchased but the main module would remain the same. There is no need to purchase a completely new applicator. The CTM Integration 360a Powered Unwind can be easily changed over to a different nose by simply removing the existing nose from the module and replacing it with a different nose.

**NOTE: Mechanically a tamp assembly can be mounted easily but the standard program does not support the tamp applicator**

The labels should be supplied on a liner web with a minimum label gap of 1/8". The applicator will accept and dispense labels from rolls up to 20" O.D. In a typical setup, the applicator detects the leading edge of a package and applies a label. Label accuracy is mostly dependant on product handling but the label stop at the peel edge will be within +/- 1/32 inch.

For safe trouble free operation of the applicator, carefully follow the instructions in this manual during setup, operation, label roll changes, cleaning, and maintenance. The applicator is designed to operate under the following environmental conditions:

**ELECTRICAL SUPPLY:** 108 - 132 Volts, 8 Amps, 50 - 60 Hertz, Single-Phase  
(There is a 90-240 volt version available)

A three-meter long, three-wire cable with 16 AWG (1.00mm<sup>2</sup>) conductors rated at 10 amperes (in accordance with CENELEC HD-21) is provided for the electrical connection to the IEC 320 receptacle of the applicator. The end of the power cord is terminated with a NEMA5-15 plug.

**AIR SUPPLY:** Clean, dry air @ 90 – 100 PSI at 4\* SCFM per applicator (Tamp and Air Blow applicators) \* **Note: In the tamp applicator, an increase in venturi vacuum pressure may lead to higher SCFM requirements.**

**ENVIRONMENT:** Operating temperature: 40 – 104 degrees F  
Humidity: 20 - 95% RH, non-condensing

**NOTE: THE 360a POWERED UNWIND IS NOT INTENDED TO BE OPERATED IN AN ENVIRONMENT WHERE FLAMMABLE OR EXPLOSIVE GASSES ARE PRESENT. THE 360a POWERED UNWIND IS NOT TO BE USED IN DIRECT CONTACT WITH FOOD PRODUCTS.**

**THIS MANUAL IS TO BE USED IN CONJUNCTION WITH THE STANDARD 360a APPLICATOR MANUAL. This is a supplement to the standard 360a manual. If you need additional help or you cannot find the information that you need, please consult the standard 360a manual (360a-2c.1.0.31 and higher).**

READ THE INSTRUCTIONS CAREFULLY AND COMPLETELY. This manual includes all of the information needed to setup the applicator under normal operating conditions. The instructions include important safety precautions that must not be ignored.

READ THE INSTRUCTIONS IN ORDER. The instructions are written as numbered steps that will take you safely and efficiently through the setup process. Any steps performed out of sequence may result in a hazard and the applicator may not operate properly.

WORK CAREFULLY. Although setting up the applicator is not difficult, it does take time. Do not rush through the process. Careful work will produce good results.



IF SOMETHING DOES NOT WORK PROPERLY, TRY SETTING IT UP AGAIN. Although an applicator malfunction is possible, most problems happen because the applicator is not setup correctly. If the applicator doesn't operate correctly, back up and start over.


FOLLOW ALL SAFETY INSTRUCTIONS. The CTM 360a Powered Unwind applicator has been provided with a number of safety features. Observe all safety warnings and under no circumstances attempt to remove or defeat safeguards or operate the machine in a manner contrary to the instructions.

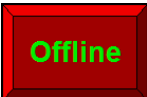
# 360a POWERED UNWIND DISPLAY


The following is general information about the display and will tell you how to change values, explain the meaning of different screens and describe the different options and how to set them up.


## TYPES OF KEYS


 or  A "go to" key and will move the operator to another screen.


 This key is for setting something like an applicator type, jog or used as an alarm reset key. Color of keys will vary depending on application.

 This key is for bringing the applicator on and offline. When offline, it will be as shown to the left but when the applicator is online, it will be green with red letters.

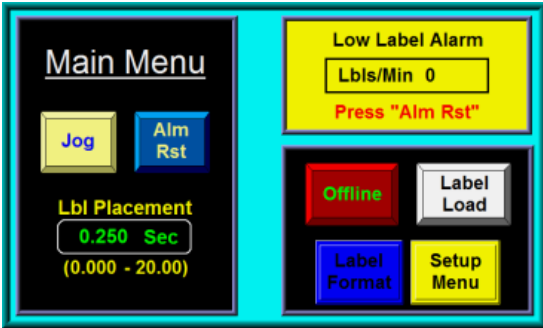
 This block of keys usually turns something on or off. If the option is on, the lamp to the left of the keys will be green; otherwise it will be red.

 This key will take you to the main menu even if you are in a setup screen.

 The color of the menu key label will notify you if the menu can be accessed or not. If the label is black in color, as shown to the left, then that menu can be currently accessed.

 If the menu cannot be currently accessed then the label will be gray in color as shown to the left. This feature is found in programs 360a-PU.4.0.01 and newer.

## ALARMS



Warning Alarm Status Box



Critical Alarm Screen

There are two types of alarms generated in the 360a applicator:

- Warning Alarm
- Critical Alarm

## ALARMS (cont'd)

Warning alarms will appear in the upper right hand corner of the main menu in the status box. Since these alarms are not serious, the applicator will not be stopped. During a warning alarm, the amber light on the light stack (if provided) will turn on.

Critical alarms will stop the applicator (take it offline) and turn on the red light on the light stack (if provided). The alarm screen will cover the current screen explaining the alarm type with an alarm reset button at the bottom of the page to clear the alarm.

### **Warning Alarms**

The follow are some the warning alarms monitored by the applicator:

*Low Label* –If the feedback from the unwind sensor hits the low label level.

*Rate Alarm* –If doing multi-label and the centerline distance is too small for the applicator to keep up, a rate alarm will occur.

*Comp Warning* –If the label placement distance is too small for the compensation formula to work, the compensation alarm will turn on. **Note: Encoder is used in this application**

*Conveyor Too Fast* –If the encoder is on, the applicator is a merge and the conveyor speed is higher than the 200% of max speed, this alarm will turn on.

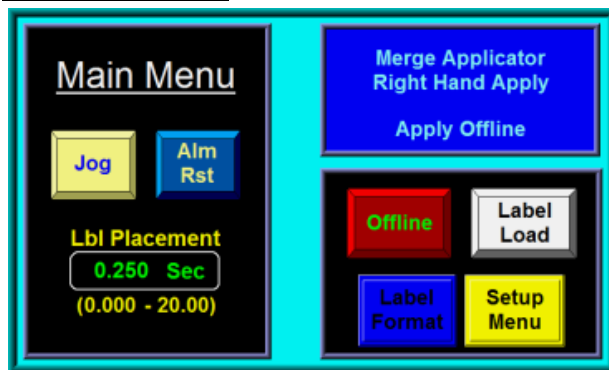
### **Critical Alarms**

The following are some of the critical alarms:

*No Labels Found* –If the number of missing labels in a row on the liner exceeds the missing label count.

*End Of Web* –If the end of web sensor detects a break in the web.

## MAIN MENU



The main menu is divided into three sections. The upper right corner of the display is a status window. The purpose of this box is to inform the operator of the status of the applicator. The display shown to the left appears immediately after going offline. If the applicator is online with no alarms, the status window will have a green background with the label rate displayed. If a warning alarm occurs, the background changes color and a message appears indicating the nature of the alarm. Specific warning alarms were discussed previously.

The left side of the screen will change based on applicator type. There will always be jog and alarm reset keys and access to label placement.

The lower right corner has the following buttons:

*Offline/Online*: Enables and disables the applicator to apply labels

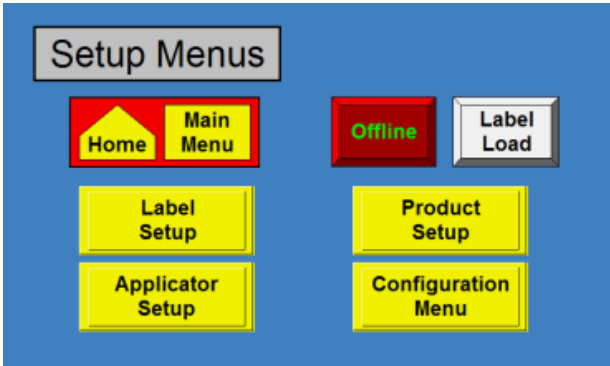
*Label Load*: This enables the rewind and unwind motors so when the operator manually turns the drive roller, label stock is pulled off the unwind and the rewind winds up the waste. This will be helpful when installing new labels. This key will appear anywhere the applicator can be brought online.

*Label Format*: The format key gives access to the operator to load saved formats. The operator cannot change or erase formats from here.

*Setup Menu*: The setup key takes the operator to a password-protected area to make changes to the operation of the applicator.

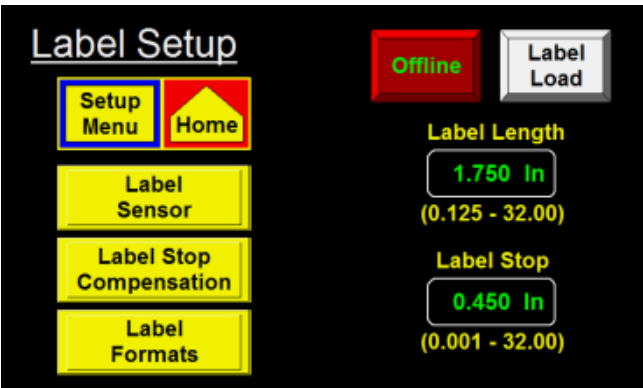
## SETUP MENUS

Because the setup menus are password-protected, pressing the setup key at the main menu will cause a password screen to appear. Entering the correct password will cause the setup menu to come up. From here the operator can go to the different setup sections. The operator can also toggle the applicator on and offline while changing the settings. Exiting the setup section is the only time the applicator will save the new settings to non-volatile memory.



## LABEL SETUP

The label setup menu is accessed from the main menu by pressing the label setup key. The label setup section gives the operator access to variables on the applicator that pertain to the label.



This menu is the same as the Standard Program except for the Load Label Key.

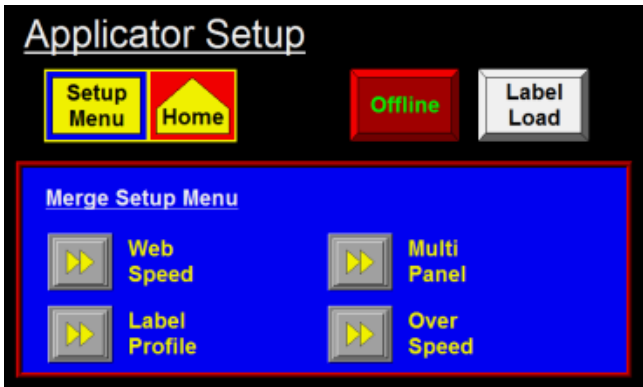
The following are changeable in this section:

- Label Sensor Setup
- Label Stop Compensation
- Label Formats
- Label Length
- Label Stop

**Note:** See the Standard 360a Manual for additional information about setting up the Label Sensor, Label Stop Compensation, the use of Label Formats, Label Length and Label Stop.

## APPLICATOR SETUP

The applicator setup menu is accessed from the setup menu by pressing the “Applicator Setup” key. The screen is split into upper and lower sections. The upper part does not change and allows the operator to return to the main or setup menus and place the applicator on or offline. The lower section of the screen changes based on the applicator type selected.



This menu is the same as the Standard Program except for the Load Label Key.

Depending on the applicator type, the operator has access to the following variables:

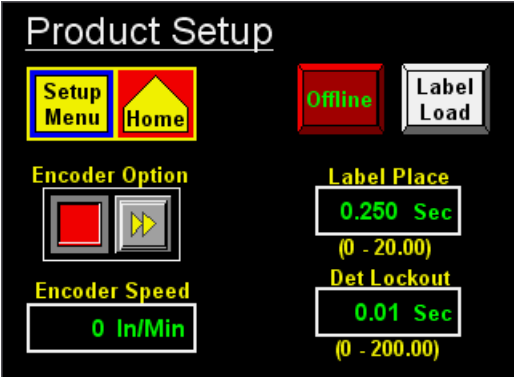
- Web Speed
- Extended Air Assist
- Over Speed
- Configuration
- Multi-Panel Option
- Air Blast Time
- Pre-Dispense
- Label Profile

**NOTE:** See Standard 360a Manual for additional information regarding these variables.



# PRODUCT SETUP

The product setup menu is accessed from the setup menu by pressing the “Product Setup” key.



This menu is the same as the Standard Program except for the Load Label Key.

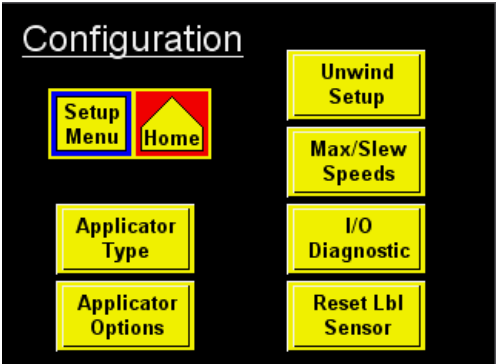
The following parameters may be changed or monitored in this section:

- Label Placement(s)
- Detector Lockout
- Encoder Speed (monitor)
- Encoder Option

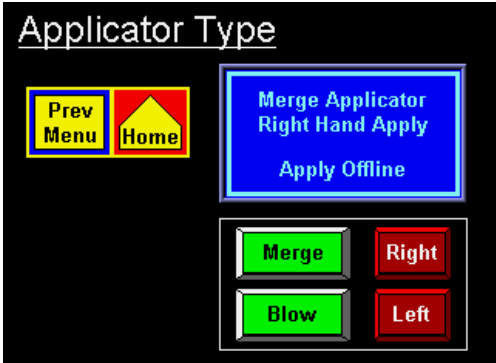
Note: See the 360a Standard Manual for additional information about the parameters found in this menu.

# CONFIGURATION SETUP

The configuration setup menu is accessed from the setup menu by pressing the “Config Menu” key with the applicator offline.



The configuration menu provides access to applicator: type setup, options, unwind setup, motion parameters, diagnostics, and the label sensor reset function. The applicator setup may be monitored or changed by accessing the various submenus.



**Applicator Type** -The applicator type function allows the operator to choose the type of label applicator (air blow or merge) and whether it will be in a left-hand or right-hand configuration.

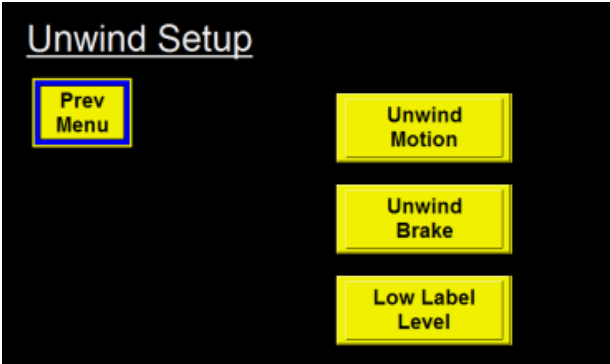
There is a status box on the right hand side of the screen that displays the current settings.

**Because of the type of applicator this is, Tamp and DAT apply types were removed.**



# CONFIGURATION SETUP (cont'd)

## UNWIND SETUP

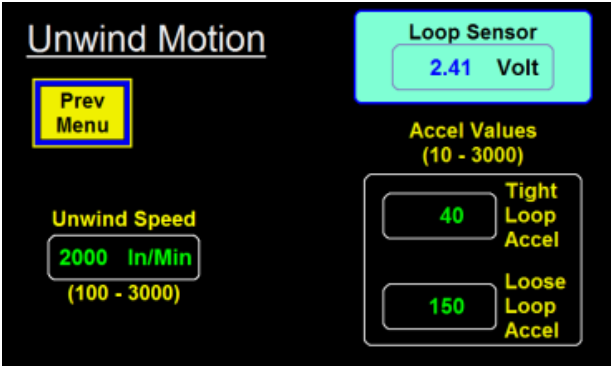


This is where you setup minimum and maximum brake voltages, low label level, unwind nip speed and accel/decel values. We'll look first at unwind motion.

### Unwind Motion

#### Unwind Speed

The nip drive that pulls the label stock from the unwind roll can run at different speeds. It is always best to set the speed a little faster than what you need instead of leaving it at the highest value all the time. Label rate also plays into how fast you need to set the speed. Dispensing a 3 or 4 inch label at 3000 in/min at a label rate of 10 labels/min requires very little speed to keep up where as 200 labels/min requires a lot. Until you get a feel for where to set this, you may have to try a couple of values.

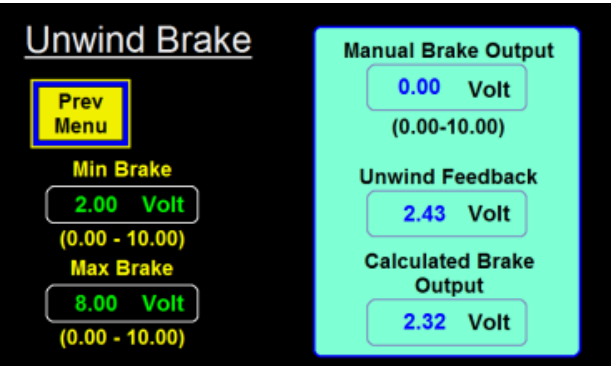


#### Tight and Loose Accel

When running, the nip drive speed will vary based on the position of the unwind dancer assembly. The closer the dancer assembly is to the nip drive, the faster the nip drive will run to replenish the supply. The controller will use different accel values when changing speeds. The accel value used is also based on the position of the dancer rollers. Once again, if the dancer rollers are too close to the nip drive, the accel values used are the tight loop which should be lower than the loose loop. The reason is while the loop is tight, we want the change in speed to be smooth. The loose loop accel is high because we need the nip to stop quicker. These values should not need changed unless the dancer rollers run against the stops on the nip drive side or if the nip drive stops after the roller assembly hits the long loop stops. Contact the factory for help with the new values.

### Unwind Brake

In this section the operator can setup how much voltage is applied to the brake when the roll is small (min brake) and how much when the unwind roll is at its maximum diameter (max brake). To determine your values load a full roll of labels onto the unwind mandrel and replace the disk. Touch the Analog Output window and a keypad should appear. Enter about 8.00 volts to start with. This will send eight volts from the controller to the brake power supply/controller, which will send out the appropriate voltage to the brake. Pull on the label stock.



**CONFIGURATION SETUP (cont'd)**  
(UNWIND SETUP)

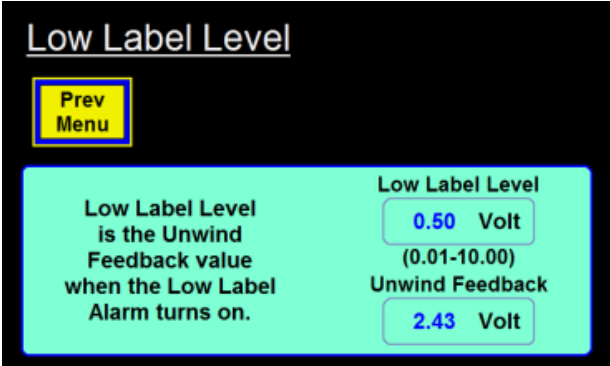
If it doesn't pull too hard, doesn't stretch the liner and the unwind roll stops when you stop pulling then enter that value into the *Max Brake* window. Now install a small roll that is close to the core but still has enough labels on it you can do a pull test. Set the analog output to around 0.50 volts and pull on the liner. Try to get the same feel as you did with the full roll and then enter that value into the *Min Brake* window. When the controller is running, it will look at the roll sensor and determine the roll diameter, then calculate what the brake voltage should be based on the high and low levels you just set. This is not hard to do but may take a couple of tries to get.

*Calculated Brake Output*

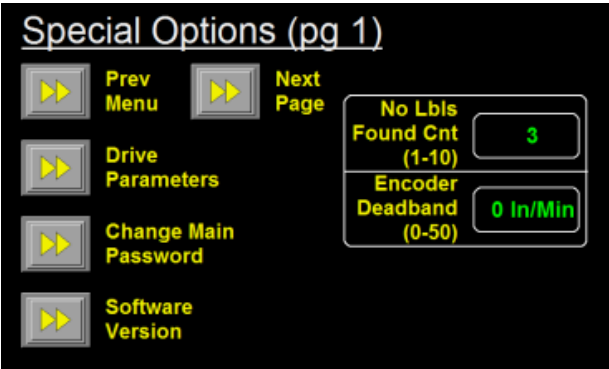
This window shows what the brake output should be based on the max and min brake output setting and the roll diameter. If you wanted to check the braking on an existing roll, enter the value displayed in this box into the manual brake output. Pull on the stock to make sure it feels right. If not adjust one of the limits and you will see the calculated number change. Now enter the new value and check the brake. This is not the right way to setup the brake but instead, more of a checking tool.

**Low Label**

Unlike the standard 360a where the low label is determined from a sensor looking at the side of the roll, this applicator will set a low label warning off based on the diameter of the roll of labels. We look at the diameter anyway to decide how much brake is needed so it makes sense to do the same for low label. In this menu, you can see what the roll sensor is sending to the controller (0-10 VDC). The lower the entered value, the smaller the roll. If you have a small roll of labels that is where you want to get an alarm, put it on and enter the *Unwind Feedback* value into the *Low Label Level* box.

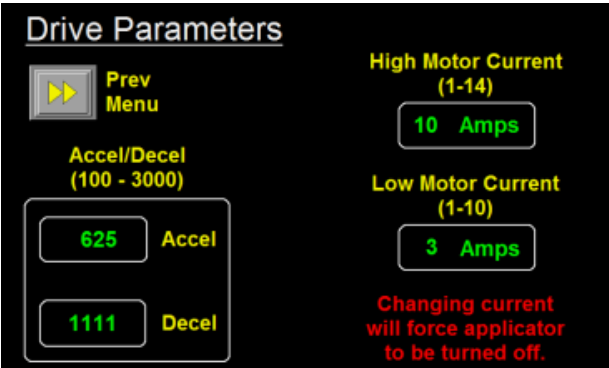


**SPECIAL OPTIONS SECTION**



This section is for: changing the motion parameters, changing the password, and the number of consecutive missing labels before a “No Labels Found” alarm. To access this section, touch the upper right hand corner of the display in the Configuration Menu. A password menu will appear. The special options password is different from any other password and is “5115”.

**Drive Parameters** - In this section, an operator can change the accel/decel rate of the motor and the maximum motor drive current setting



*Accel/Decel* -The larger the acceleration and deceleration values the faster the applicator will start and stop. This will increase labeling rates but web handling may become erratic. The maximum acceleration and deceleration rates that can be achieved depend on the available motor torque and the Motor Current setting. The inertia of the label roll and the system components, friction, and dancer arm spring tension are all factors in determining how much torque is required to operate at a given web speed and acceleration/deceleration rate. The

factory should be consulted if you feel the default values need changed.

*Current* – The Drive High Motor Current setting should be set at 10 amps and the Low Motor Current is at 3 from the factory. It may be necessary to increase the current values for high speed/high rate applications but the factory should be consulted before going past 12 amps for the high current value.

**NOTE: At this time, the current setting for the unwind current cannot be viewed or changed. It is fixed at 7 amps**

The following are miscellaneous parameters that may need to be adjusted or altered. See the 360a Standard Manual for a full explanation of the following:

- Gearing/Velocity Parameters- Gearing/Velocity Parameters**
- Change Main Password**
- No Labels Found Count**
- Software Version**
- Placement To Time**
- Auto Online Option**
- Product Detect Debounce Time**

## REAR PANEL



## CONNECTORS

**VALVE:** This plug is used to power the valves and will drive up to 4 valves with the standard harness.

**ENCODER:** The encoder is connected to this plug. The encoder is enabled through the product setup menu.

**ALARM:** This connector will drive a three-stack alarm light.

**DISPLAY:** This port is for connecting the display to the applicator.

**I/O:** This port is for integrating the applicator with end user controls or to tie options to the applicator.

**LINK:** The link port is used to interconnect two labeling heads in “ZERO DOWNTIME” applications. This port is only installed if the crossover is used.

**PRODUCT:** This is where the product detect sensor is connected.

**EOW:** This is where the end of web sensor plugs in.

**ROLL:** This is where the unwind ultrasonic sensor is plugged into. This sensor is responsible for measuring the diameter of the unwind roll

**LOOP:** The loop sensor plugs in here. The loop sensor tracks the position of the unwind dancer assembly

**UNWIND:** The unwind brake is powered here.

**REWIND:** The rewind motor is powered here.

# **360a POWERED UNWIND**

## **SETUP**

## **PROCEDURES**

**!!CAUTION!! DISCONNECT THE AIR AND POWER FROM THE MACHINE BEFORE YOU THREAD LABELS OR YOU MAY BE CAUGHT BETWEEN THE DRIVE AND NIP ROLLERS IF THE MACHINE CYCLES UNEXPECTEDLY!**

## **JOB SETUP**

**NOTE:** When reading through this section of the manual, refer to section 5 for web path diagrams.

### **THREADING LABELS**

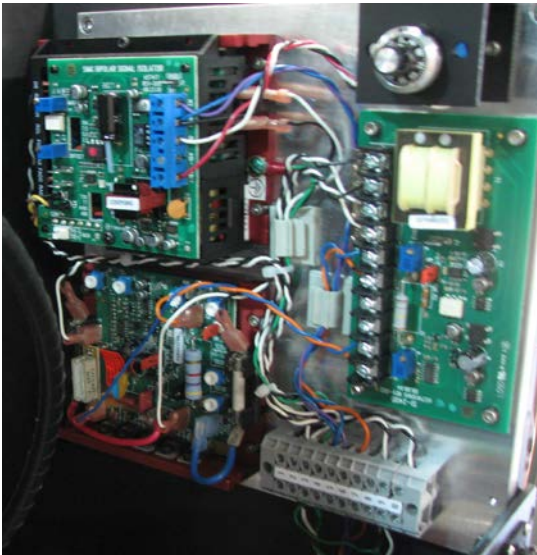
1. With the power off remove the outer unwind disk.
2. Make sure the inside of the inner disk is at least 1 1/4" away from the faceplate of the applicator.
3. Slide a roll of labels over the unwind hubs and push against the inner disk. Make sure the labels are face up as they unwind. Replace the outer disk and lock in place.
4. Remove approx. 5 ft of labels from the liner on the leading part of the roll of labels.
5. Thread labels through the machine referring to the web path diagram section that applies to your configuration.
  - a. When going between the nip and drive rollers, turn the knob on top of the nip assembly to spread the two rollers (2 places).
  - b. If the applicator is a blow box or tamp, make sure the web goes between the peel edge and the air assist tube.
  - c. Make sure the two dancer roller assemblies are properly webbed.
6. Remove rewind pin, lay the label liner over the pin slot and replace pin.
7. Align guide collars with the unwind assembly.
8. Lower the both nip rollers so they comes into contact with the drive rollers.
9. Make sure the label tension brush is against the roller. This keeps the web tight between this point and the peel edge.
10. Re-locate the spring block assembly so that it is in the center of the label and is applying slight pressure to the top of the labels. This aids in the dispensing of labels off of the peel edge.
11. Power on and connect air supply. Press Label Load in the label setup menu and turn the main nip drive knob to move the label stock through the applicator until everything lines up.



## UNWIND BRAKE SETUP

This powered unwind version of the 360a applicator has a magnetic particle brake instead of the traditional friction brake. The advantage of this setup is that the brake tension can be changed as the roll diameter changes. Also there is no dancer arm on this setup. When the applicator is running at a high rate of labels per minute, dancer arms are sometimes hard to control.

An ultrasonic sensor is mounted to the faceplate of the applicator that looks at the roll of labels. It sends an analog signal back to the controller where the diameter of the roll is calculated. Based on the calculated diameter of the roll, the controller will send more or less voltage to the brake to keep consistent tension on the liner. The setup for the brake is a three-part operation. The first part is done at the factory and should only have to be done again if you have to change isolation or drive boards. The second part is setting the roll sensor. This is set at the factory but because of its position and how it's mounted, it may get rotated out of place. The third part is setting the minimum and maximum brake voltage. Different liner materials or different web widths may cause the operator change these values but overall when you find something that works, it will work with a lot of different stocks.

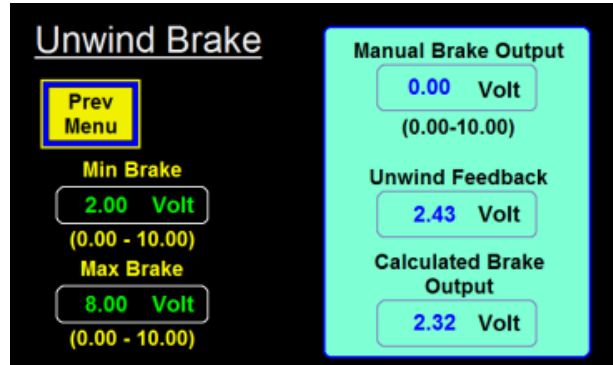


All components for the unwind and rewind are mounted on a common plate which is mounted on the side of the applicator in the same area of the main controller. The picture to the left shows this electrical plate. The drive on the upper left corner of the plate and the potentiometer are for the powered rewind motor. For this setup, we are only worried about unwind and its components.

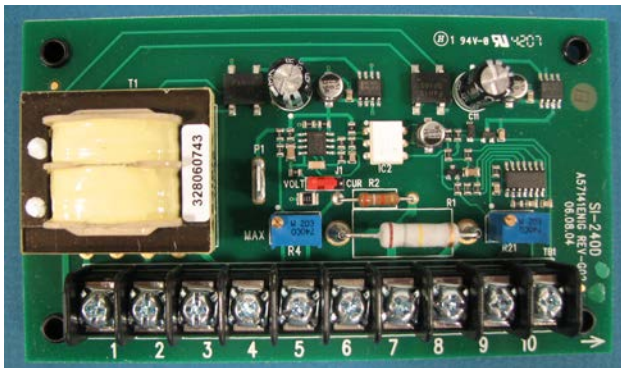
## UNWIND BRAKE SETUP (cont'd)

### Setting The Isolation And Drive Boards

Go to the Unwind Setup in the configuration section and then into the Unwind Brake. See page 2-6 of this supplement manual for more details. Touch the analog output window and set its value to 10.00 volts. With the top cover off the applicator locate the isolation board. This board is mounted on the side of the housing on a common plate with the drives for the brake and rewind. Put your meter leads on terminals 9 and 10 on the isolation board. Make sure the positive lead is on terminal 10 and the negative on 9. Your meter should read between 9.50 and 9.75 volts. It does not have to be exact but should not be over 10.00 volts. If you need to adjust the board to get the correct voltage, use a small screwdriver and adjust the max pot on the board. Turning it



CW will increase the voltage while CCW will decrease. When you have it, set the analog output to 0.00 volts. Put the meter leads back in the same place and check the voltage output for the isolation board. It should be between 0.015 and 0.025 volts. Make sure the voltage is positive and not negative. If an adjustment is necessary turn the min pot until you get the voltage you want. If you had to adjust the min pot, go back and recheck the voltage when the analog output is at 10.00 volts and 0.00 volts. If everything still looks good, you're done.

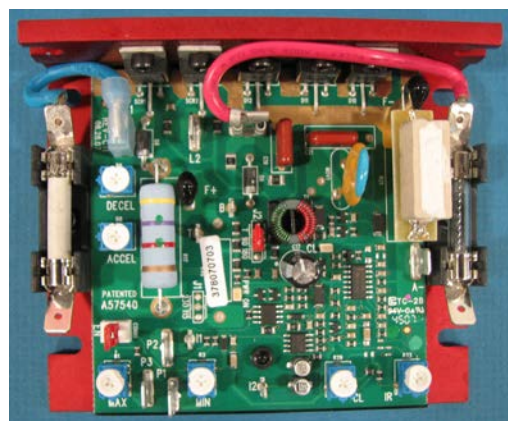


On the brake drive board turn the MAX, MIN, ACCEL, and DECEL pots fully CCW. The IR and CL pots should remain at the factory settings. Touch the analog output window and set its value to 10.00 volts. Put your meter leads on TB3-7



and TB3-8. Make sure the positive lead is on terminal 7 and the negative on 8. Your meter should read about 85 volts. If not,

adjust the min pot on the brake drive until you are close. Now set the analog output to 0 volts and check the same terminals. Your meter should read 0 volts.



## UNWIND BRAKE SETUP (cont'd)

### Setting The Roll Sensor

The roll sensor is an ultrasonic sensor that is responsible for measuring the diameter of the label roll. This sensor may have to be setup after removing it from the box or if the sensor gets moved. The following is the procedure for doing that:



*Step1* Put an empty core on the unwind mandrel. We will use this to align the sensor and to teach the smallest diameter of the roll.



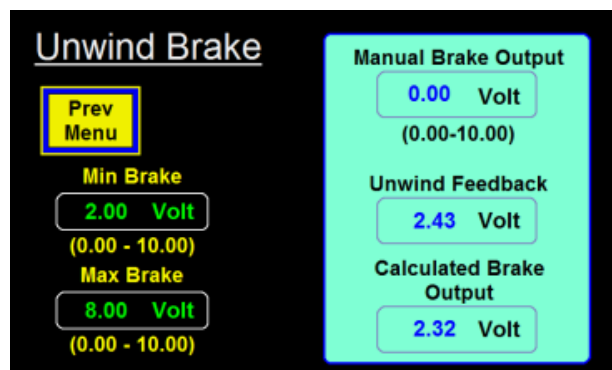
*Step2* Rotate the sensor while it is in its mounting bracket until the power LED turns green. This means the sensor sees the target (the core). Continue to rotate until it changes back to red. Now rotate it back and try to split the distance it was green so you are looking directly at the core. Lock the sensor down.



*Step3* Now add a label to the outside of the inside unwind disk. This will be our full roll target during the teaching of the sensor. With this label rolled out of the way of the sensor, press and hold the teach key on the sensor until the output LED turns a steady red. Now press the teach key for about ½ second. The output LED should start flashing. Now rotate the label in front of the sensor and press the teach button for another ½ second. If it was a successful teach, the output LED should turn amber.

### Setting The Min And Max Brake Output

Setting the minimum and maximum brake voltage is about getting the right amount of pull from the unwind brake for the diameter of the label roll. See page 3-7 of this supplement manual for more details. To set these values, go to the Unwind Brake screen in the configuration section. Put a full roll of labels on the unwind and set the analog output to a reasonably high value. 6-8 volts is a good starting point. Grab hold of the end of the label and liner and pull. Experience will speed this part up but you are looking to see if it feels like too much brake to where the liner is stretching or if it's too little brake and the unwind continues to roll when you stop pulling. Continue to change to analog output until you get what you want and then set that value into the *Max Brake* window. Now put a roll of labels on that is close to the core. Set the analog output to 2 volts to start and pull. Try different values until you find something that feels right and set the value into the *Min Brake* window. The controller will now monitor the signal from the roll sensor and calculate the needed brake voltage. You may have to make some adjustments after the first couple rolls but short of drastically changing materials or widths, these values should not change much.



## UNWIND DANCER ROLL SETUP

The unwind dancer roll assembly is located right after the unwind nip drive. Its purpose is to accumulate labels for the applicator to use so when the labels are coming off the roll, it is more of a steady flow rather than in short bursts. The assembly consists of 2" diameter rollers, linear slide and a spring-loaded cylinder. There is also an ultrasonic sensor (loop sensor) that looks at the position of the floating rollers to determine how fast the unwind nip drive will move. This sensor is the same as the roll sensor except it is a straight sensor where the other was a 90 degree sensor. Teaching the sensor is done the same way.



**NOTE: For stiff labels, the array of rollers may be changed to stainless shoes where the label stock will ride around to help stop pre-dispense**

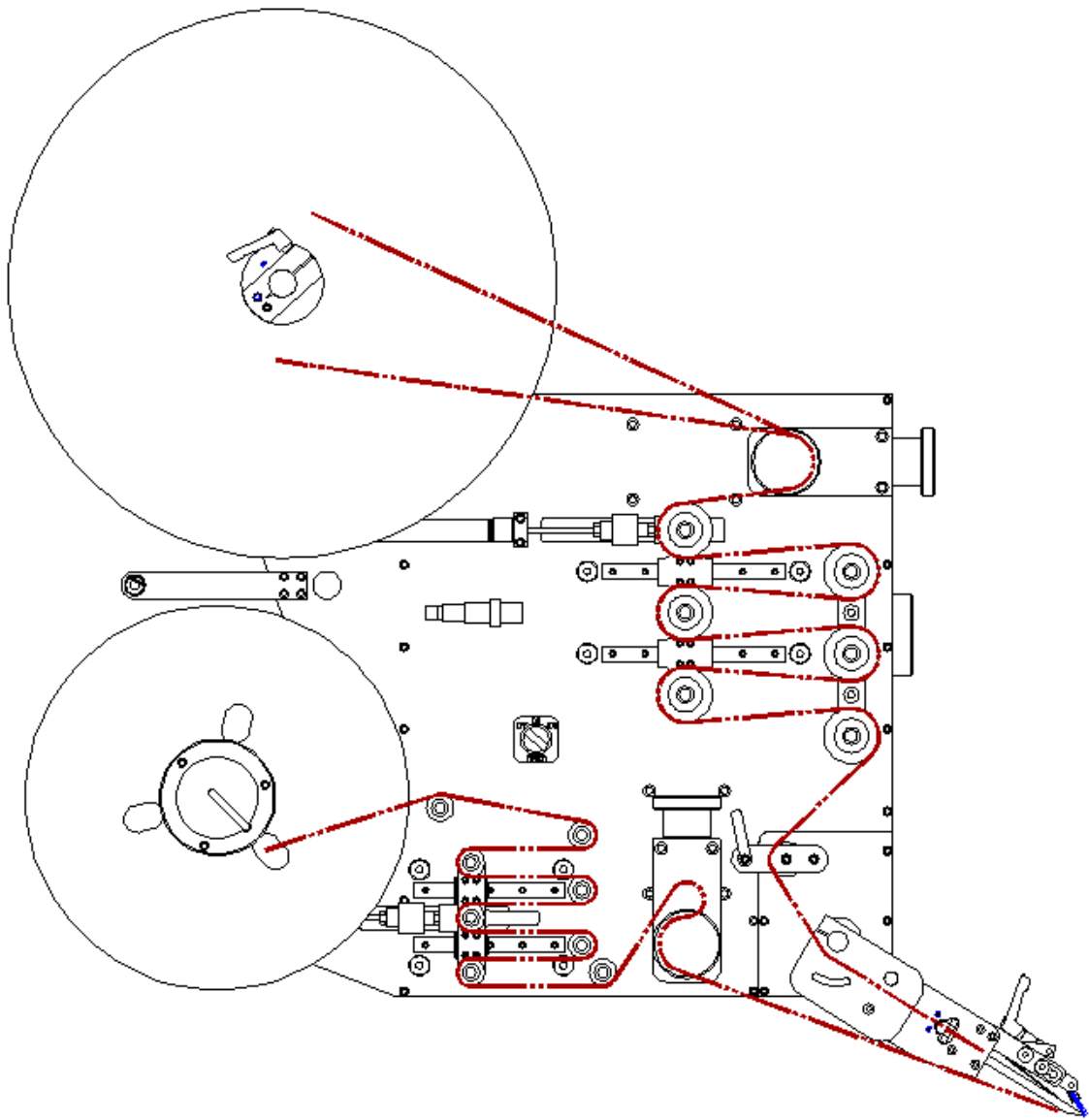
### **Teaching The Loop Sensor**

- 1) Position the slide-mounted rollers so they are 1" off the stops that are closest to the sensor.
- 2) Press and hold the teach key on the sensor until the output LED turns a steady red.



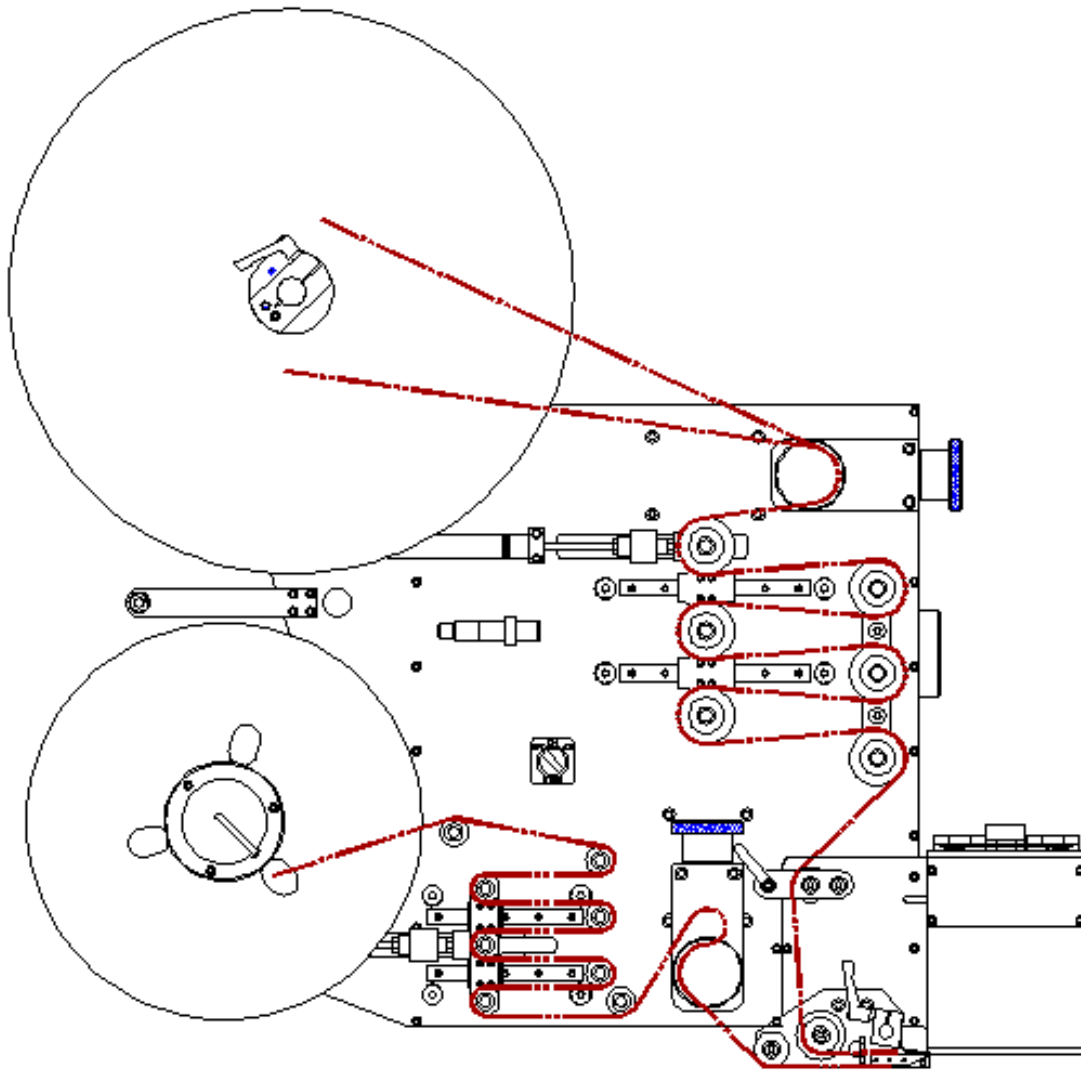
- 3) Now press the teach key for about ½ second and release. The output LED should start flashing.
- 4) Now move the roller assembly to the stops closest to the nip drive.
- 5) Press the teach button for another ½ second and release.
- 6) If it was a successful teach, the output LED should turn amber.

# WEB PATHS

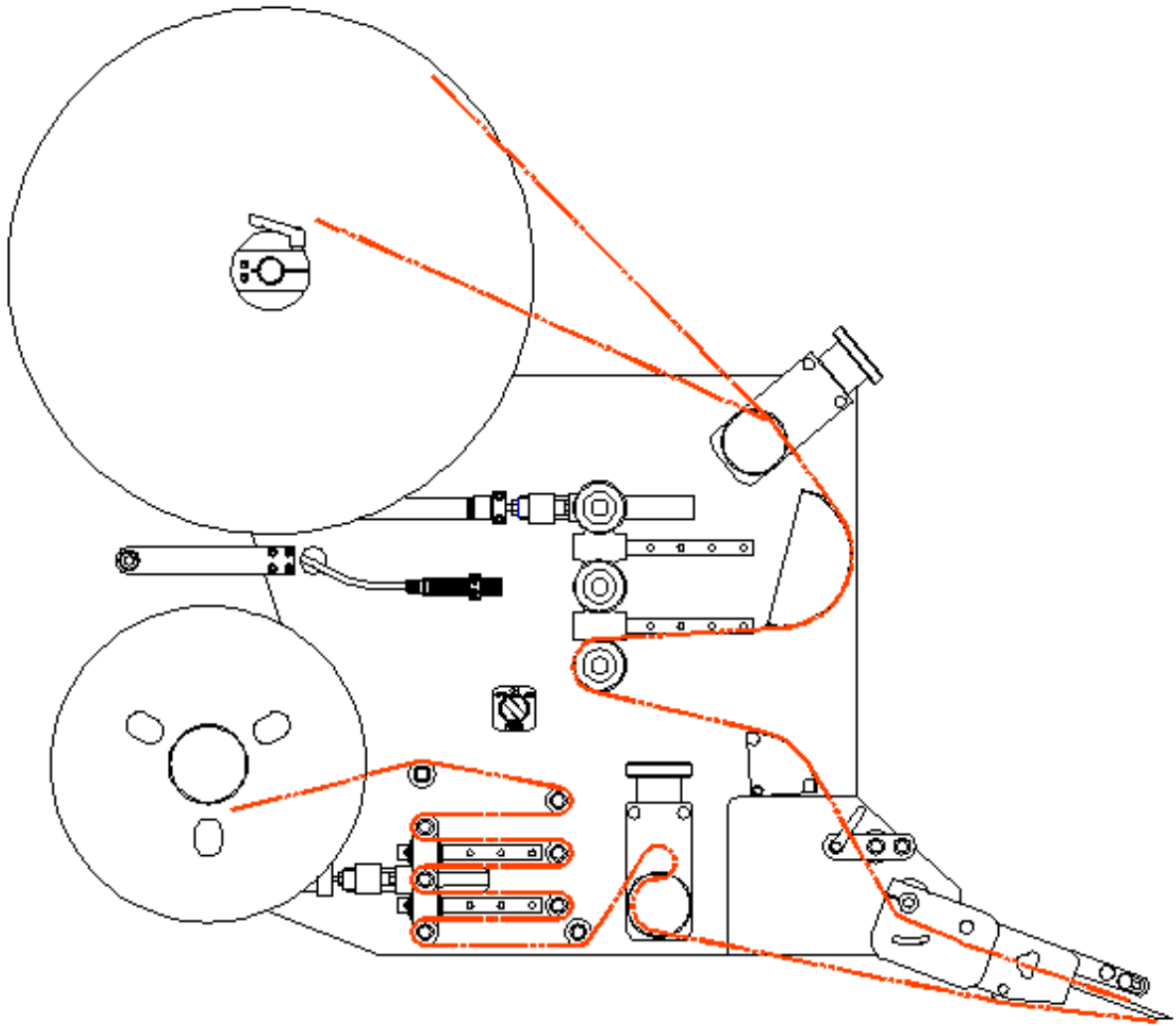


Web Path Diagram For Merge

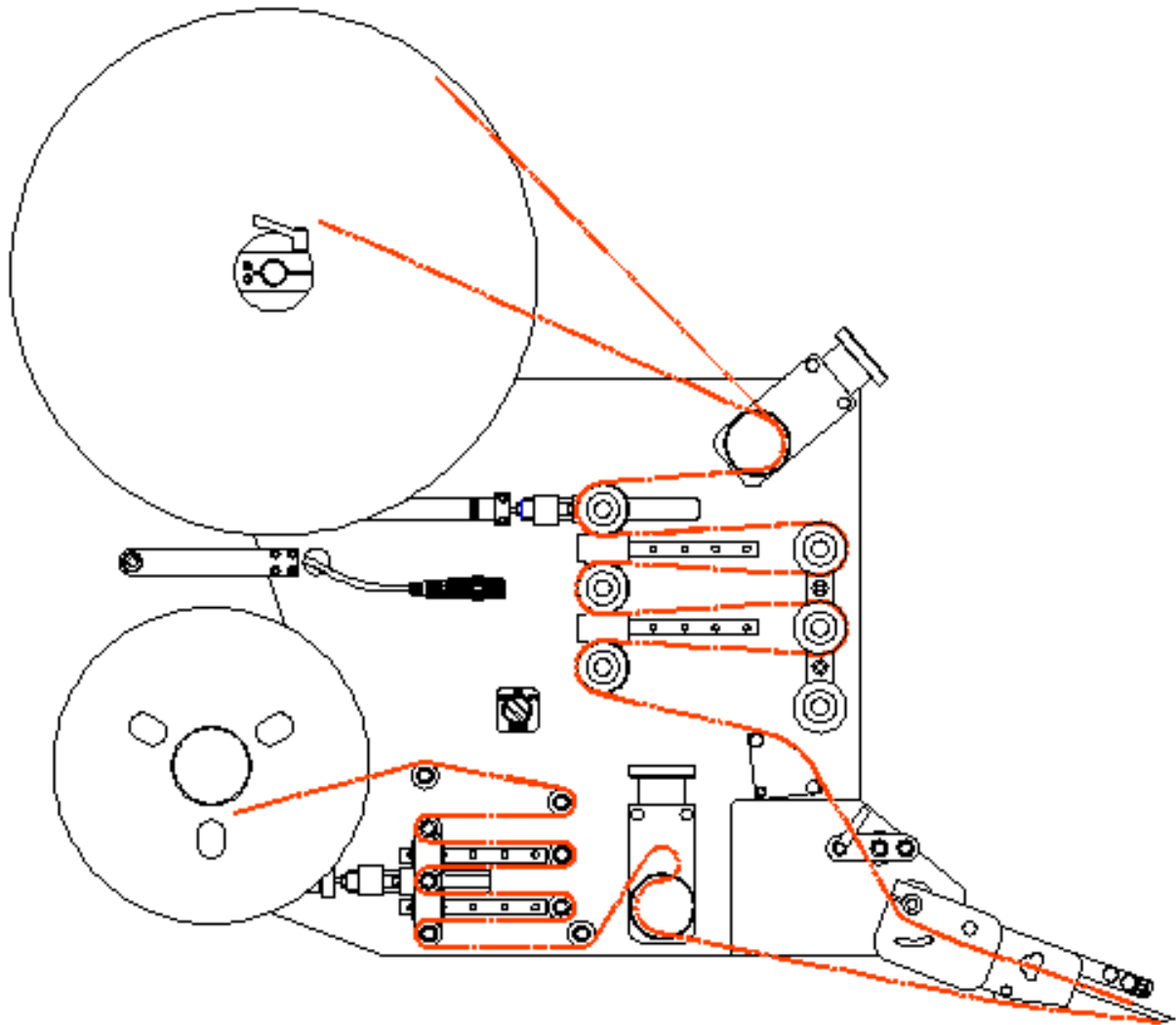




Web Path Diagram For Air Blow



Web Path Diagram For Stiff Label Merge



Web Path Diagram For Stiff Label to Roller Array Merge



**360a POWERED UNWIND**

**GENERAL**

**MAINTENANCE**

**PROCEDURES**

**!!CAUTION!! DISCONNECT THE AIR AND POWER FROM THE MACHINE BEFORE DOING THE FOLLOWING PROCEDURES. FAILURE TO FOLLOW THIS PRECAUTION COULD RESULT IN INJURIES FROM MOVING PARTS OR ELECTRICAL SHOCK.**

## MAINTENANCE

**NOTE: Since all three types of applicator are covered in this section, some items discussed will not pertain to your application.**

### DAILY MAINTENANCE

1. Examine the peel edge, vacuum grid, label pad and rollers for excessive adhesive build-up. If necessary, clean these surfaces with alcohol or similar solvent.
2. Examine air filter for water or oil collection. Drain if necessary.
3. Examine for loose screws, rollers, etc.

### WEEKLY MAINTENANCE

1. Clean rollers, vacuum grid, label pad, and peel edge of adhesive build-up and dust.
2. Examine air lines and connections to make sure there are no leaks.
3. Examine for loose screws, rollers, etc.
4. Examine UHMW tape on peel edges. Replace if needed.
5. Lubricate both Linear Slides. There might be a need to do this more than once a week due to high cycle rates. LPS 2 Heavy Duty Lubricant is the recommended product for this.

### MONTHLY MAINTENANCE

1. Examine drive and rewind belts for wear and to make sure they are properly adjusted.
2. Examine rollers for free rotation and play.
3. Replace air inlet filter.
4. Examine UHMW tape on peel edges. Replace if needed.

**SEMI-ANNUAL MAINTENANCE**

1. Replace air filter and clean collection bowl.
2. Clean inside and outside of machine using an industrial vacuum cleaner.

**NOTE: Do not use compressed air to blow dust off of the electrical section of the applicator.**

3. Examine pulleys for wear.
4. Perform the monthly maintenance section.

## DISPLAY FAULTS

The operator interface will display warnings and alarms that pertain to the application. Most the Display Faults are similar to the Standard 360a. A new alarm that can be created by this Applicator is described below.

### COM ALARM



There are two drives in this applicator; one for labeling and one for the unwind. The unwind controller is a slave to the main. If communications are lost, this screen will appear. Try powering off and starting again. If the problem persists, make sure the Ethernet cable is plugged into both drives. If so, call the factory.

**NOTE: Please consult the 360a Standard Manual for more Display Faults and Troubleshooting help.**

## ACCESSORIES

The following is only a partial list of accessories available for the 360a powered unwind.

### **ELECTRONIC CROSSOVER**

The Electronic Crossover or “Zero Downtime” accessory is an electronic interface between two labeling heads positioned in series that will monitor the primary applicator’s fault conditions and switch to a secondary applicator to prevent interruption of production flow. When purchasing this option, make sure you receive (2) link port harnesses, (1) crossover cable and if the system does not have one, an encoder assembly with a splitter cable.

### **WEB BREAK DETECTION**

The Web Break Detection accessory is a sensor that generates a signal when there is a break in the web. The applicator will display an alarm screen and flash the red light on the alarm light stack (if purchased) to inform the operator that the label web is broken.

### **CORE ADAPTER**

Standard core adapters for the 360 come in 3” and 6” diameters. If you need something custom, please contact the factory.

### **ALARM LIGHT STACK**

The 360a can handle up to 3 alarm lights

*Red* –Critical Alarm (Steady)

*Amber* –Warning Alarm (Steady)

*Green* –Ready Signal (steady)

Light stacks can be purchased with one or three lights.

### **LINE RATE COMPENSATION**

This kit includes encoder and cable. Splitter cables can be purchased so one encoder will drive up to five applicators.

### **CLEAR LABEL SENSOR**

The 360a offers a label sensor that will detect a clear label on a clear liner.

### **HARDEN PEEL EDGE TIPS**

For applications where changing the peel edge tape is difficult or where the liner material is causing premature wear, CTM offers a harden peel edge for some models. Edges available for air blows, tamps, and merge applicators. Please contact the factory for details and availability.

### **SNORKELS**

CTM has a large variety of snorkel option to get the applicator nose close to the labeling operation while the applicator body remains farther away. Consult the factory with all your requirements so the best solution can be found for your needs.

**360a APPLICATOR SPARE PARTS LIST**  
**When Ordering parts, present Serial Number of 360a**

<b>360a Series Powered Unwind Core Unit Spare Parts List</b>		
<b>RECOMMENDED TOOL</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
PE-TE6000	1	ENTRELEC WIRING TOOL
<b>WEAR ITEMS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
MP-200-0235	2	NIP ROLLER LIFT CAM
PM-BELT1018	2	140XLO37 NIP TO MOTOR BELT
<b>RECOMMENDED SPARE PARTS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
ASS-200a-0410	1	24VDC POWER SUPPLY
MP-200-0242	2	5" DRIVE ROLL w/ COATING
PE-FU2072	1	10 amp FUSE
PE-RE1013	4	VALVE RELAY
PE-RE1014	1	MCR RELAY
PE-SE3080	1	FIBER OPTIC LABEL SENSOR
C-PE-SE1019	1	ULTRASONIC SENSOR
C-PE-SE1039	1	ULTRASONIC SENSOR
ASS-200a-0451	1	JOG SWITCH ASSEMBLY
ASS-200-0454	1	COOLING FAN ASSEMBLY
PE-FAN1080	1	FAN GUARD
PE-FAN1115	1	RF SCREEN
<b>EXTENDED SPARE PARTS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
ASS-200-0427	1	SM312LV PRODUCT DETECT W/CONNECTOR
PE-RT1000-6	1	REFLECTIVE TAPE (1" WIDE x 6" LONG)
PE-CO1018	1	12' POWER CORD
PE-DR1005	2	STEPPER MOTOR CONTROLLER (SPECIFY PROGRAM)
PE-IN1112	1	APPLICATOR TOUCH SCREEN (SPECIFY PROGRAM)
PE-MO1036	1	HIGH TORQUE STEPPER MOTOR (Burgandy) - 10 amp
PE-MO1034	1	STEPPER MOTOR (Black) - 5 amp
PM-BE1230	2	EW-5/8 LIFT THRUST WASHER
PM-BE1232	2	EW-3/4 REWIND CLUTCH THRUST WASHER
ASS-200-0128R <b>or</b>	1	REWIND BEARING BLOCK ASSEMBLY W/ SHAFT
ASS-200-0128L	1	REWIND BEARING BLOCK ASSEMBLY W/ SHAFT
SAS-200-0129O	2	OUTSIDE DRIVE ROLL SUPPORT ASSEMBLY
SAS-200-0129I	2	INSIDE DRIVE ROLL SUPPORT ASSEMBLY
SAS-200-0130 <b>or</b>	2	5" NIP ROLLER ASSEMBLY w/o SHAFT-COATED (refer to ASS-200-X129)
SAS-200-2130	2	7.5" NIP ROLLER ASSEMBLY w/o SHAFT-COATED (refer to ASS-200-X129)
SAS-200-0135 <b>or</b>	1	5" TENSION ROLLER ASSEMBLY w/o shaft
SAS-200-2135	1	7.5" TENSION ROLLER ASSEMBLY w/o shaft
PE-CO1020	1	214-3508 16/3 X 10' POWER CORD (BELDEN)

**360a APPLICATOR SPARE PARTS LIST**  
**When Ordering parts, present Serial Number of 360a**

<b>360a SERIES POWERED UNWIND with POWERED REWIND SPARE PARTS LIST</b>		
<b>RECOMMENDED SPARE PARTS</b> ( 20" POWERED UNWIND, UNWIND FESTOON SLIDE ROLLER and POWERED REWIND SLIDE ROLLER ASSEMBLIES)		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
ASS-200-0460	1	PROXIMITY SWITCH
PE-FU2065	1	3 AMP FUSE
PE-MC1109	1	MOTOR DRIVER CONTROLLER
PE-MO1008	1	LEESON GEAR MOTOR
PE-PO1030	1	5K SPEED POTENTIOMETER
PE-RE1063	3	RELAY
PE-RE1013	4	SOLID STATE RELAY
PE-RE1014	1	100-120vac RELAY, G3NA-225B-AC100/120
PE-SI1050	1	KB SIGNAL ISOLATOR BOARD
PE-PO1030	1	5K POTENTIOMETER
PE-SI1055	1	KBSI240D SIGNAL ISOLATOR BOARD
PE-MC1110-1/8	1	MOTOR DRIVE WITH 1/8 RESISTOR
ASS-200-0150AS	8	1" DIA. GUIDE ROLLER ASSEMBLY with SHAFT for 5" wide POWERED REWIND (ANTI-STATIC ROLLER INSERTS)
ASS-200-2150AS	8	1" DIA. GUIDE ROLLER ASSEMBLY with SHAFT for 7.5" wide POWERED REWIND (ANTI-STATIC ROLLER INSERTS)
ASS-200-0131AS	6	5" DANCER ROLLER ASSEMBLY with SHAFT - (ANTI-STATIC ROLLER INSERTS)
ASS-200-2131AS	6	7.5" DANCER ROLLER ASSEMBLY with SHAFT - (ANTI-STATIC ROLLER INSERTS)
ASS-215-0110	1	5" TENSION BRUSH
ASS-215-2110	1	7.5" TENSION BRUSH
PM-AC1003	1	AIR CYLINDER, 3/4" bore x 5" stroke - DOUBLE ACTING - NOSE MOUNTED, AIR RETURN
PM-AC1273	1	BIMBA AIR CYLINDER 3/4"bore X 6.00"stroke (NS) (this was used on early versions, it was replaced by C-PM-AC1274)
C-PM-AC1274	1	BIMBA AIR CYLINDER , DOUBLE ACTING 3/4" bore x 6.00" stroke
PM-AC1263	2	AIR CYLINDER ALIGNMENT COUPLER, STANDARD, 1/4" THREAD
PM-GD1040	2	THK MINIATURE LM GUIDE with 1 CARRIAGE and 140mm RAIL
PM-GD1000	2	THK MINIATURE LM GUIDE, 170 mm Lg. with 1 carriage
<b>EXTENDED SPARE PARTS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
C-PM-BRK1000	1	MAGNETIC PARTICLE BRAKE
C-PM-BE1210	1	.75" BORE EXTENDED RACE BEARING (90 degree set screw offset)

**360a APPLICATOR SPARE PARTS LIST**  
**When Ordering parts, present Serial Number of 360a**

<b>MERGE SPARE PARTS LIST</b>		
<b>WEAR ITEM</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
PM-T1000	1	UHMW TAPE FOR 5" PEEL EDGE ( 5 7/16" Wide x 7" Lg.)
PM-T1015	1	UHMW TAPE FOR 7.5" PEEL EDGE ( 8" Wide x 7" Lg.)
ASS-215-0110X-X	1	5" BRUSH/WIPER ASSEMBLY (specify length & material)
ASS-215-2110X-X	1	7.5" BRUSH/WIPER ASSEMBLY (specify length & material)
<b>RECOMMENDED SPARE PARTS</b>		
MP-215-0214	1	5" MERGE PEEL EDGE with TAPE
MP-215-2214	1	7.5" MERGE PEEL EDGE with TAPE
<b>EXTENDED SPARE PARTS</b>		
ASS-211-0108-2	1	FIBER OPTIC LABEL SENSOR ASSEMBLY with 2" MOUNTING ROD (SNS)



**360a APPLICATOR SPARE PARTS LIST**  
**When Ordering parts, present Serial Number of 360a**

<b>AIR BLOW SPARE PARTS LIST</b>		
<b>WEAR ITEM</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
PM-T1010 or	1	UHMW TAPE FOR 5" PEEL EDGE (6" Wide x 4" Lg.)
ASS-211-0113 or	1	AIR TUBE ASSEMBLY
ASS-211-0113E	1	AIR TUBE ASSEMBLY FOR EXTENDED BLOW BOX
ASS-215-0110X-X or	1	5" BRUSH/WIPER ASSEMBLY (specify length & material)
ASS-215-2110X-X	1	7.5" BRUSH/WIPER ASSEMBLY (specify length & material)
<b>RECOMMENDED SPARE PARTS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
MP-211-0217-7	1	AIR ASSIST TUBE <b>**THIS IS JOB SPECIFIC**</b>
ASS-211-0103 or	1	AIR TUBE MANIFOLD ASSEMBLY
ASS-211-0103E	1	AIR TUBE MANIFOLD ASSEMBLY FOR EXT. BLOW BOX
<b>EXTENDED SPARE PARTS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
PM-FIL1010	1	WATTS FILTER
PM-VA2395M	1	5.4 WATT DC SOLENOID
PM-VA2396M	1	60 PSI AIR ASSIST REGULATOR
PM-VA2397M	1	120 PSI TAMP/BLOW REGULATOR
ASS-211-0106M	1	AIR BLOW 2-STATION VALVE BANK ASSEMBLY
ASS-211-0109	1	AIR FILTER REGULATOR ASSEMBLY
<b>RVB SPARE PARTS LIST</b>		
<b>WEAR ITEM</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
PM-T1010 or	1	UHMW TAPE FOR 5" PEEL EDGE (6" Wide x 4" Lg.)
PM-T1015	1	UHMW TAPE FOR 7.5" PEEL EDGE (8" Wide x 7" Lg.)
ASS-215-0110X-X or	1	5" BRUSH/WIPER ASSEMBLY (specify length & material)
ASS-215-2110X-X	1	7.5" BRUSH/WIPER ASSEMBLY (specify length & material)
<b>RECOMMENDED SPARE PARTS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
MP-211-0217-7	1	AIR ASSIST TUBE <b>**THIS IS JOB SPECIFIC**</b>
<b>EXTENDED SPARE PARTS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
PM-FIL1010	1	WATTS FILTER
PM-VA2395M	1	5.4 WATT DC SOLENOID
PM-VA2396M	1	60 PSI AIR ASSIST REGULATOR
PM-VA2397M	1	120 PSI TAMP/BLOW REGULATOR
ASS-211-0112M	1	RVB 2-STATION VALVE BANK ASSEMBLY

**360a APPLICATOR SPARE PARTS LIST**  
**When Ordering parts, present Serial Number of 360a**

<b>FFS SPARE PARTS LIST</b>		
<b>WEAR ITEM</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
PM-T1010	1	UHMW TAPE FOR 5" PEEL EDGE ( 6" Wide x 4" Lg.)
ASS-215-0110X-X or	1	5" BRUSH/WIPER ASSEMBLY (specify length & material)
ASS-215-2110X-X	1	7.5" BRUSH/WIPER ASSEMBLY (specify length & material)
<b>RECOMMENDED SPARE PARTS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
MP-211-0217-5	1	AIR ASSIST TUBE <b>**THIS IS JOB SPECIFIC**</b>
<b>EXTENDED SPARE PARTS</b>		
<b>Part Number</b>	<b>Recommended Qty</b>	<b>Description</b>
PM-FIL1010	1	WATTS FILTER
PM-VA2395M	1	5.4 WATT DC SOLENOID
PM-VA2396M	1	60 PSI AIR ASSIST REGULATOR
PM-VA2397M	1	120 PSI TAMP/BLOW REGULATOR
ASS-211-0117M	1	FFS STYLE 2-STATION VALVE BANK ASSEMBLY
ASS-211-0108-2	1	FIBER OPTIC LABEL SENSOR ASSEMBLY with 2" MOUNTING ROD (SNS)

## 360a APPLICATOR SPARE PARTS LIST

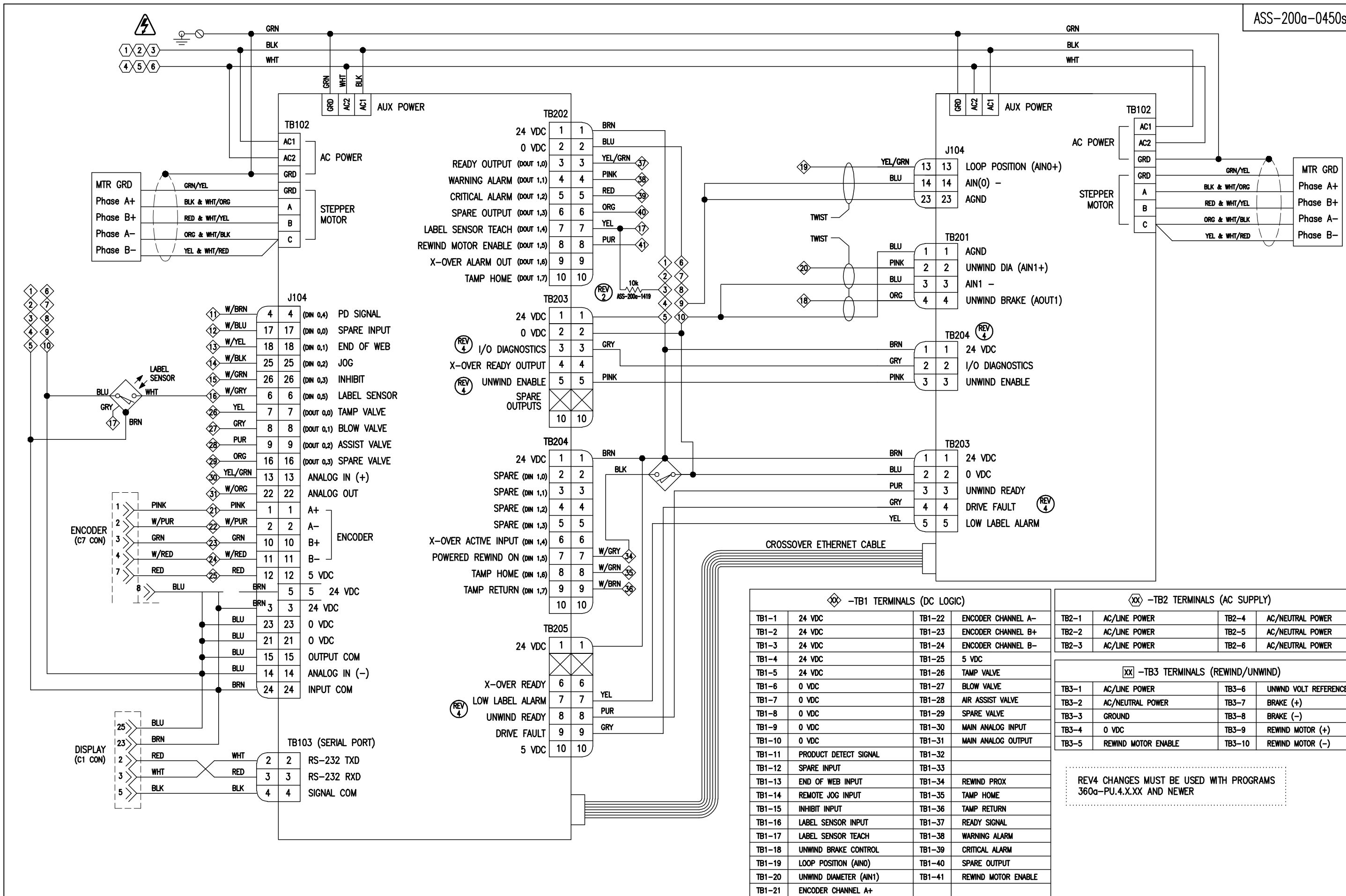
When Ordering parts, present Serial Number of 360a

<b>TAMP SPARE PARTS LIST</b>		
<b>WEAR ITEM</b>		
Part Number	Recommended Qty	Description
PM-T1010 or	1	UHMW TAPE FOR 5" PEEL EDGE (6" Wide x 4" Lg.)
PM-T1015	1	UHMW TAPE FOR 7.5" PEEL EDGE ( 8" Wide x 7" Lg.)
ASS-215-0110X-X or	1	5" BRUSH/WIPER ASSEMBLY (specify length & material)
ASS-215-2110X-X	1	7.5" BRUSH/WIPER ASSEMBLY (specify length & material)
<b>RECOMMENDED SPARE PARTS</b>		
Part Number	Recommended Qty	Description
MP-211-0217-7	1	AIR ASSIST TUBE <b>**THIS IS JOB SPECIFIC**</b>
<b>EXTENDED SPARE PARTS</b>		
Part Number	Recommended Qty	Description
PM-FIL1010	1	WATTS FILTER
PM-VA2395M	1	5.4 WATT DC SOLENOID
PM-VA2396M	1	60 PSI AIR ASSIST REGULATOR
PM-VA2397M	1	120 PSI TAMP/BLOW REGULATOR
ASS-214-0105M	1	TAMP 3-STATION VALVE BANK ASSEMBLY
ASS-211-0108-2	1	FIBER OPTIC LABEL SENSOR ASSEMBLY with 2" MOUNTING ROD (SNS)
<b>SLIDE ASSEMBLIES</b>		
Part Number	Recommended Qty	Description
ASS-214-0108-1 or	1	1" SLIDE ASSEMBLY
ASS-214-0108-2 or	1	2" SLIDE ASSEMBLY
ASS-214-0108-3 or	1	3" SLIDE ASSEMBLY
ASS-214-0108-4 or	1	4" SLIDE ASSEMBLY
ASS-214-0108-6 or	1	6" SLIDE ASSEMBLY
ASS-214-0108-8 or	1	8" SLIDE ASSEMBLY
ASS-214-0108-10 or	1	10" SLIDE ASSEMBLY
ASS-214-0108-12	1	12" SLIDE ASSEMBLY

## 360a APPLICATOR SPARE PARTS LIST

When ordering parts, present Serial Number of 360a

360a OPTIONS SPARE PARTS LIST		
<b>OPTIONS: RECOMMENDED SPARE PARTS (LOW LABEL, WEB BREAK ALARMS)</b>		
Part Number	Recommended Qty	Description
PE-LI1088	1	RED,YELLOW,GREEN LED ALARM LIGHT (BANNER)
ASS-200-0422	1	LOW LABEL SENSOR (w/o BRACKET)
ASS-200-0423	1	END OF WEB SENSOR (w/o BRACKET)
<b>OPTIONS: RECOMMENDED SPARE PARTS (TAMP HOME SENSOR)</b>		
Part Number	Recommended Qty	Description
ASS-200A-0478	1	TAMP HOME SENSOR (w/o BRACKET)
<b>** CYLINDER MUST BE DESIGNATED WITH AN "E" **</b>		
<b>OPTIONS: RECOMMENDED SPARE PARTS (QUICK DISCONNECT PAD &amp; MANIFOLD)</b>		
Part Number	Recommended Qty	Description
PM-FASSBP11000	4	BALL PLUNGERS
MP-238-0270	1	QUICK CHANGE SLIDE TRANSITION PLATE
<b>OPTIONS: RECOMMENDED SPARE PARTS (SMART TAMP - PHOTOEYE)</b>		
Part Number	Recommended Qty	Description
PE-SE0985	1	SM312W-QD SENSOR <b>**JOB SPECIFIC**</b>
<b>OPTIONS: RECOMMENDED SPARE PARTS (SMART TAMP - MECHANICAL)</b>		
Part Number	Recommended Qty	Description
PE-SW1110 or	1	OMRON LIMIT SWITCH (ARM STYLE)
PE-SW1105 or	1	OMRON LIMIT SWITCH (BUTTON ROLLER STYLE)
PE-SW1100	1	OMRON LIMIT SWITCH (BUTTON STYLE)
<b>OPTIONS: RECOMMENDED SPARE PARTS (VACUUM OFF OPTION)</b>		
Part Number	Recommended Qty	Description
ASS-200-0459	1	VACUUM SWITCH CABLE ASSEMBLY
<b>OPTIONS: RECOMMENDED SPARE PARTS (LINE RATE COMP)</b>		
Part Number	Recommended Qty	Description
PE-MW1000	1	ENCODER WHEEL
PE-GE2105	1	90 Deg. PULSE ENCODER
<b>OPTIONS: RECOMMENDED SPARE PARTS (LINE RATE COMP (CONVEYOR MOUNTED))</b>		
Part Number	Recommended Qty	Description
PE-GE2105	1	90 Deg. PULSE ENCODER

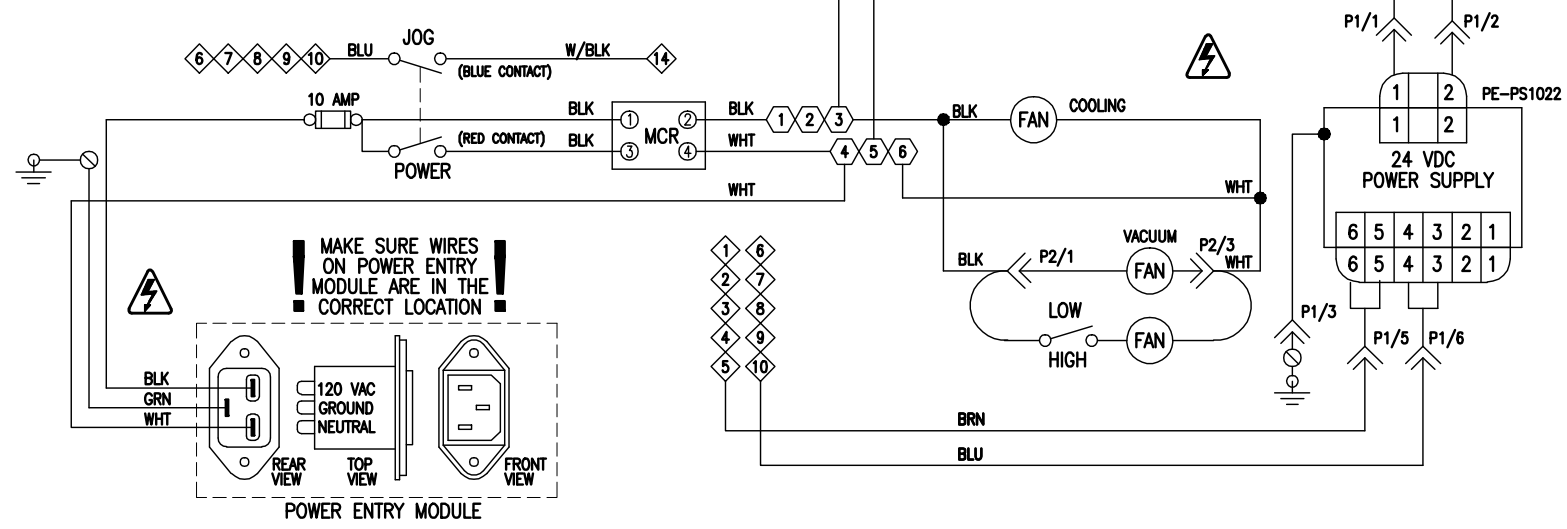


-TB1 TERMINALS (DC LOGIC)		-TB2 TERMINALS (AC SUPPLY)	
TB1-1	24 VDC	TB2-1	AC/LINE POWER
TB1-2	24 VDC	TB2-2	AC/LINE POWER
TB1-3	24 VDC	TB2-3	AC/LINE POWER
TB1-4	24 VDC	TB2-4	AC/NEUTRAL POWER
TB1-5	24 VDC	TB2-5	AC/NEUTRAL POWER
TB1-6	0 VDC	TB2-6	AC/NEUTRAL POWER
TB1-7	0 VDC		
TB1-8	0 VDC		
TB1-9	0 VDC		
TB1-10	0 VDC		
TB1-11	PRODUCT DETECT SIGNAL		
TB1-12	SPARE INPUT		
TB1-13	END OF WEB INPUT		
TB1-14	REMOTE JOG INPUT		
TB1-15	INHIBIT INPUT		
TB1-16	LABEL SENSOR INPUT		
TB1-17	LABEL SENSOR TEACH		
TB1-18	UNWIND BRAKE CONTROL		
TB1-19	LOOP POSITION (AIN0)		
TB1-20	UNWIND DIAMETER (AIN1)		
TB1-21	ENCODER CHANNEL A+		
TB1-22	ENCODER CHANNEL A-		
TB1-23	ENCODER CHANNEL B+		
TB1-24	ENCODER CHANNEL B-		
TB1-25	5 VDC		
TB1-26	TAMP VALVE		
TB1-27	BLOW VALVE		
TB1-28	AIR ASSIST VALVE		
TB1-29	SPARE VALVE		
TB1-30	MAIN ANALOG INPUT		
TB1-31	MAIN ANALOG OUTPUT		
TB1-32			
TB1-33			
TB1-34	REWIND PROX		
TB1-35	TAMP HOME		
TB1-36	TAMP RETURN		
TB1-37	READY SIGNAL		
TB1-38	WARNING ALARM		
TB1-39	CRITICAL ALARM		
TB1-40	SPARE OUTPUT		
TB1-41	REWIND MOTOR ENABLE		

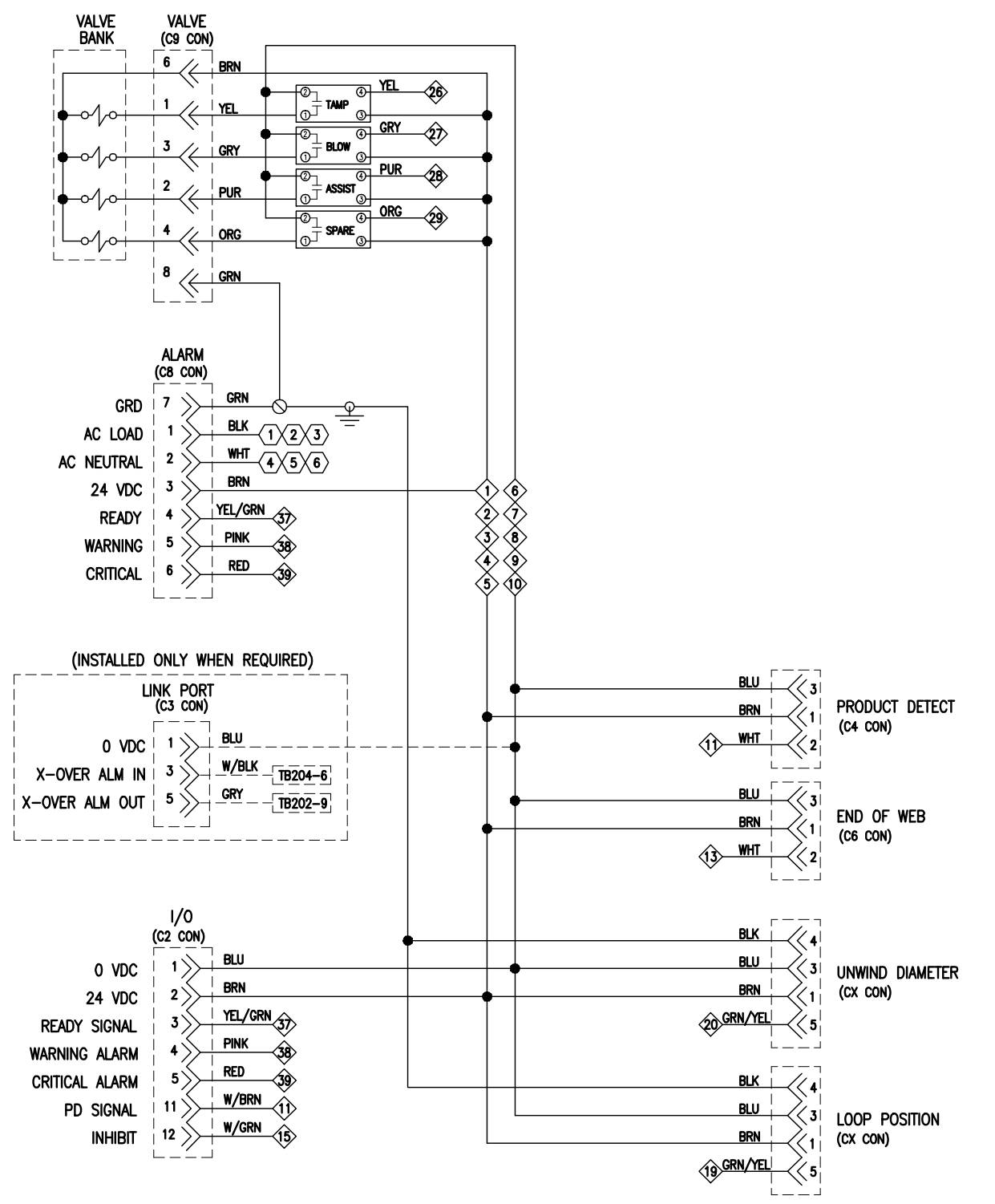
-TB3 TERMINALS (REWIND/UNWIND)			
TB3-1	AC/LINE POWER	TB3-6	UNWIND VOLT REFERENCE
TB3-2	AC/NEUTRAL POWER	TB3-7	BRAKE (+)
TB3-3	GROUND	TB3-8	BRAKE (-)
TB3-4	0 VDC	TB3-9	REWIND MOTOR (+)
TB3-5	REWIND MOTOR ENABLE	TB3-10	REWIND MOTOR (-)

REV4 CHANGES MUST BE USED WITH PROGRAMS 360a-PU.4.X.XX AND NEWER

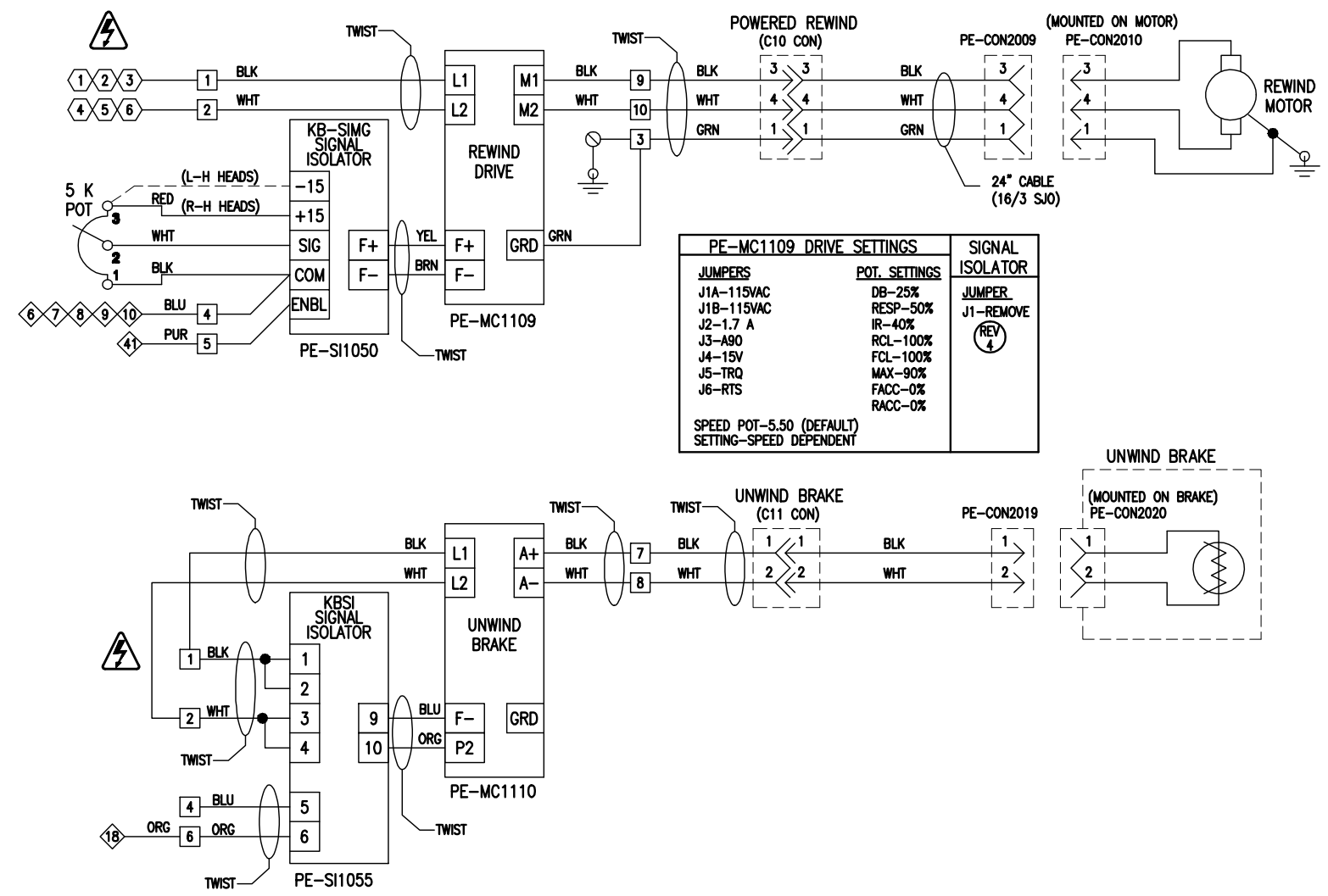
(AC/DC Supply Schematic)



(Misc. Connector Plate Schematics)



(Rewind Drive/Unwind Brake Supply)



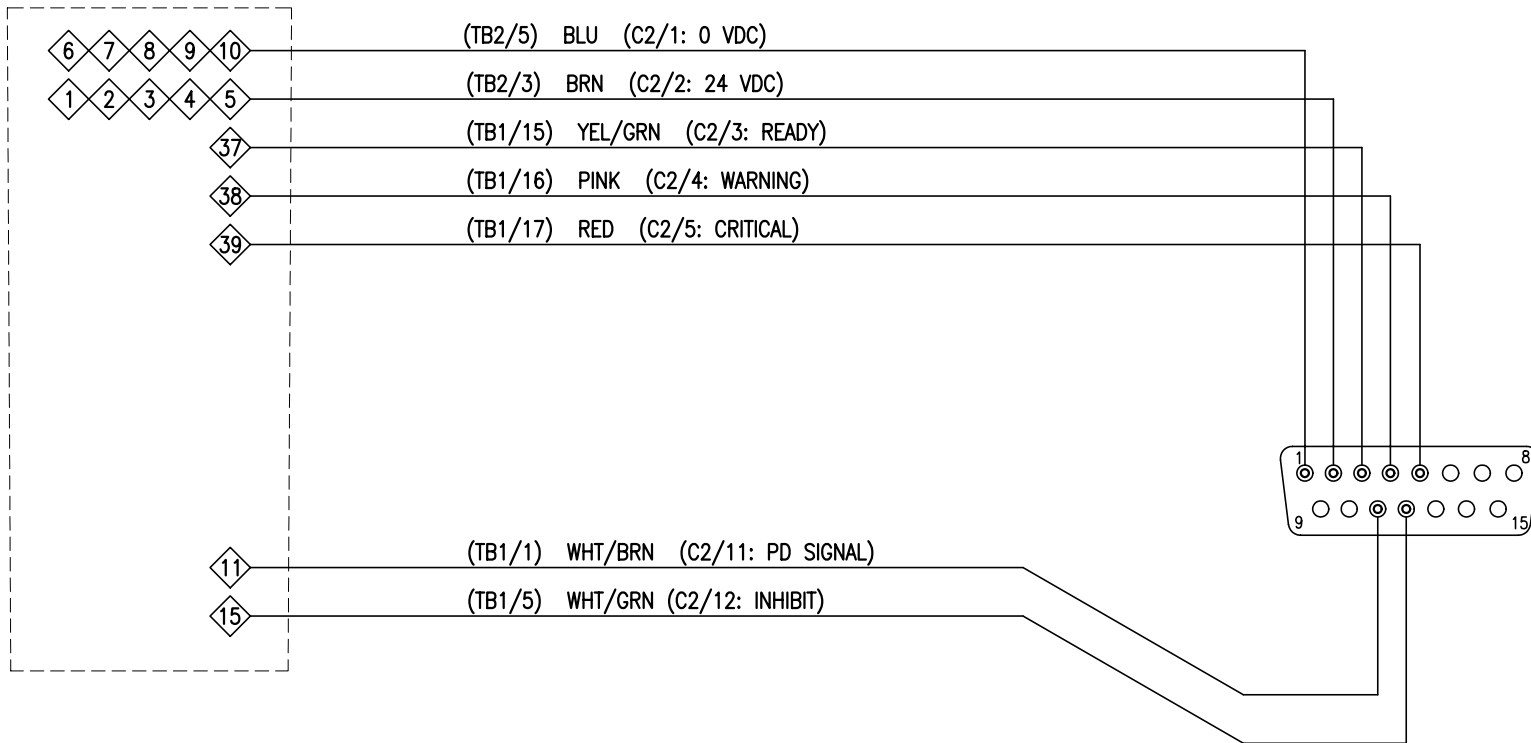
BILL OF MATERIAL

ASS-200a-0490

ASS-200a-0490

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	PE-CON2050	FEMALE (SOCKET) CONNECTOR
②	7	PE-CON7057	FEMALE/SOCKET
③	2	PE-S01028	JACK SCREW, L.W., F.W., NUT
	1	PE-W1036	22 AWG (BLUE) WIRE x 16" LONG
	1	PE-W1037	22 AWG (BROWN) WIRE x 16" LONG
	1	PE-W1050	22 AWG (YEL/GRN) WIRE x 16" LONG
	1	PE-W1060	22 AWG (PINK) WIRE x 16" LONG
	1	PE-W1033	22 AWG (RED) WIRE x 16" LONG
	1	PE-W1046	22 AWG (WHT/BRN) WIRE x 16" LONG
	1	PE-W1043	22 AWG (WHT/GRN) WIRE x 16" LONG

⬡ -TB1 TERMINALS



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL

PART: INTERNAL WIRE HARNESS ASSEMBLY : I/O PORT TO TB1

Dept. Code  
70

REV. 0 REV. DESCRIPTION -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE 10-08-08

REV. BY: ES

Scale: 1=1.5

Date: 10-09-08

DRAWN BY: E. SANOR

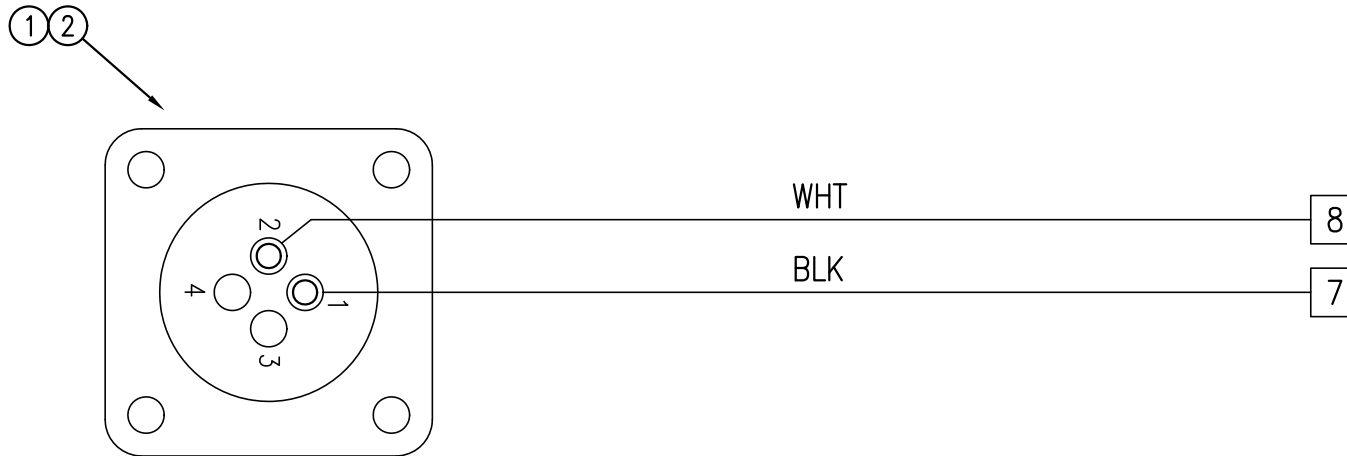
F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0490

BILL OF MATERIAL

ASS-200a-0491

ASS-200a-0491

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	PE-CON2020	FEMALE (SOCKET) CONNECTOR
②	2	PE-CON7048	FEMALE PIN/ SOCKET (22 Ga.)
	1	PE-W1032	22 AWG (BLACK) WIRE x 4" LONG
	1	PE-W1031	22 AWG (WHITE) WIRE x 4" LONG



BACK SIDE OF CONNECTOR  
UNWIND PORT @ CONNECTOR PLATE

XX -TB3 TERMINALS (REWIND/UNWIND)

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL

PART: UNWIND CONNECTOR HARNESS ASSEMBLY

Dept. Code  
70

REV. 2	REV. DESCRIPTION Corrected connector pins; 1 blk to TB3-7, 2 wht to TB3-8.	REV. DATE 08-09-11	REV. BY: BMW	Scale: 1=1	Date: 10-09-08	DRAWN BY: E. SANOR	F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0491
--------	---	-----------------------	-----------------	---------------	-------------------	-----------------------	--

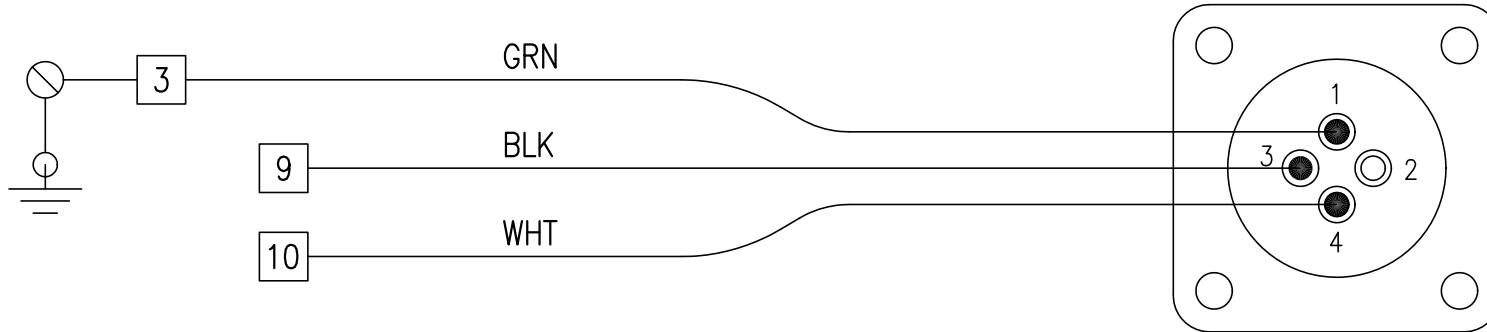


BILL OF MATERIAL

ASS-200a-0492

ASS-200a-0492

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	PE-CON2010	MOTOR CONNECTOR
②	3	PE-CON7050	MALE PIN
	1	PE-W1034	22 AWG (GREEN) WIRE x 6" LONG
	1	PE-W1032	22 AWG (BLACK) WIRE x 4" LONG
	1	PE-W1031	22 AWG (WHITE) WIRE x 4" LONG



BACK SIDE OF CONNECTOR  
REWIND PORT @ CONNECTOR PLATE

XX -TB3 TERMINALS (REWIND/UNWIND)

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL

PART: REWIND CONNECTOR HARNESS ASSEMBLY

Dept. Code  
70

REV. 0 REV. DESCRIPTION -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE 10-08-08

REV. BY: ES

Scale: 1=1

Date: 10-09-08

DRAWN BY: E. SANOR

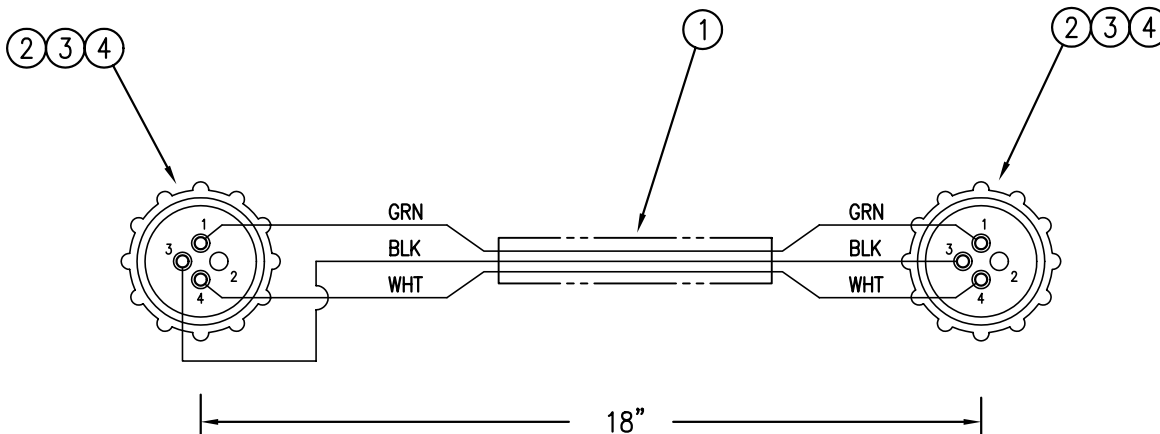
F:\Engineering\Standard Parts\System Components:  
200a\ASS-200a-0492

BILL OF MATERIAL

ASS-200a-0493

ASS-200a-0493

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	18"	PE-C03050	16/3 SJO CORD
②	2	PE-CON2009	FEMALE PLUG
③	2	PE-CC1040	PLUG CLAMP
④	6	PE-CON7052	FEMALE PIN



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL

PART: REWIND MOTOR CABLE

Dept. Code  
70

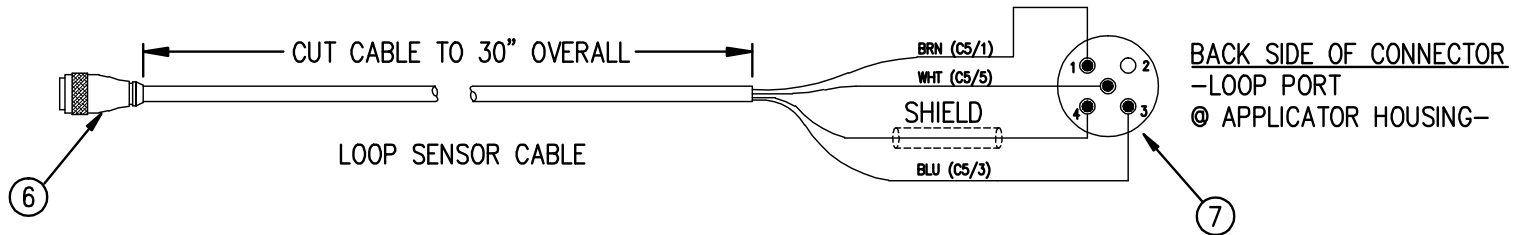
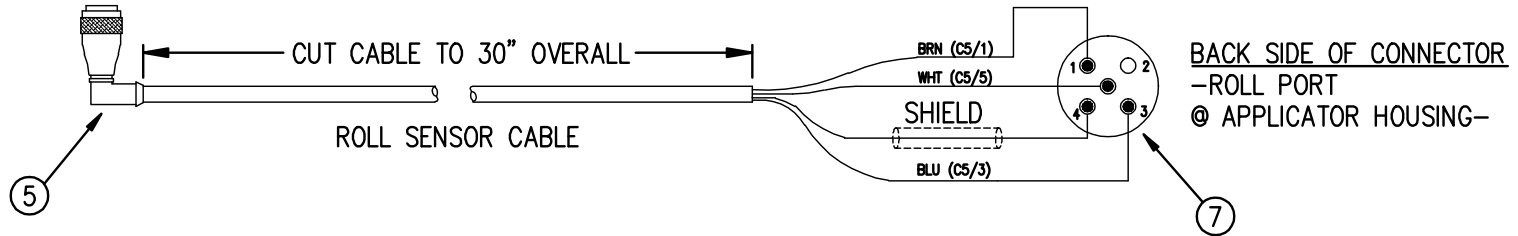
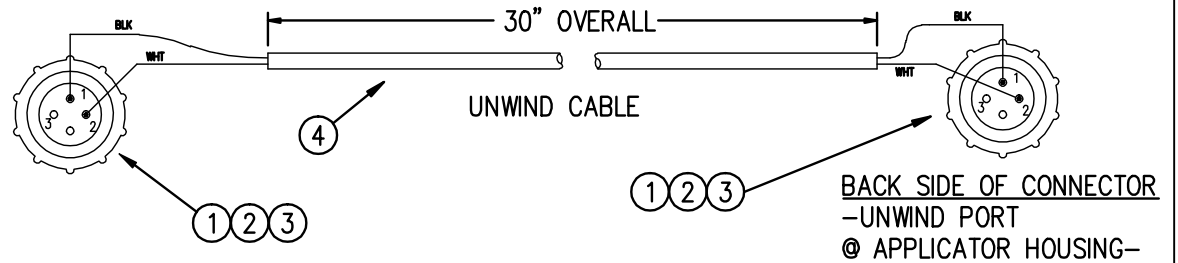
REV. 0	REV. DESCRIPTION -NEW DRAWING FOR 360a POWERED UNWIND-	REV. DATE 10-08-08	REV. BY: ES	Scale: 1=2	Date: 10-09-08	DRAWN BY: E. SANOR	F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0493
--------	---	-----------------------	----------------	---------------	-------------------	-----------------------	--

BILL OF MATERIAL

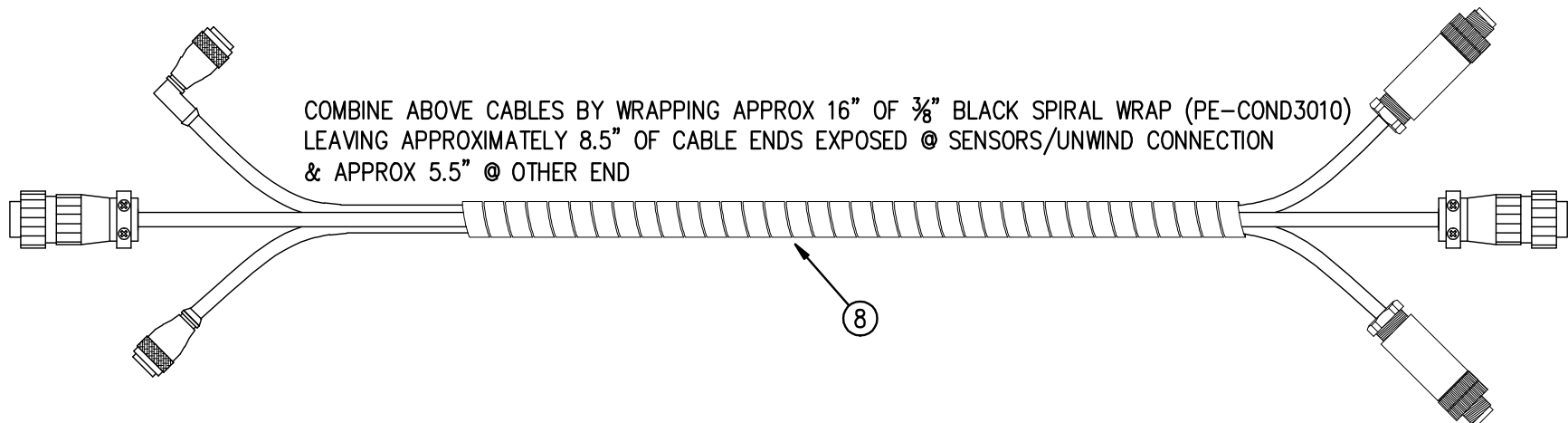
ASS-200a-0494

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	2	PE-CON2019	CABLE PLUG (APPLICATOR END)
②	2	PE-CC1030	ENCODER CLAMP
③	4	PE-CON7050	MALE PIN (20-24AWG)
④	30"	PE-CA2110	4 CONDUCTOR CABLE
⑤	1	PE-SE2014	RIGHT ANGLE CONN. 4-PIN Q/D SHIELDED EUROFAST STRAIGHT CABLE, 6.5'
⑥	1	C-PE-CA1042	STRAIGHT CONN 5-PIN Q/D SHIELDED EUROFAST STRAIGHT CABLE, 15'
⑦	2	PE-CA2080	EOW PLUG
⑧	16"	PE-COND3010	BLACK 3/8" SPIRAL WRAP
⑨	4"	PE-ST1002	1/16" SHRINK TUBE

ASS-200a-0494



COMBINE ABOVE CABLES BY WRAPPING APPROX 16" OF 3/8" BLACK SPIRAL WRAP (PE-COND3010) LEAVING APPROXIMATELY 8.5" OF CABLE ENDS EXPOSED @ SENSORS/UNWIND CONNECTION & APPROX 5.5" @ OTHER END



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL

PART: UNWIND BRAKE & ULTRASONIC SENSOR CABLES ASSEMBLY

Dept. Code 70

REV. 2 REV. DESCRIPTION CHANGED MALE PIN PN

REV. DATE 6-23-17

REV. BY: JWS

Scale: 1=3

Date: 10-09-08

DRAWN BY: E. SANOR

F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0494

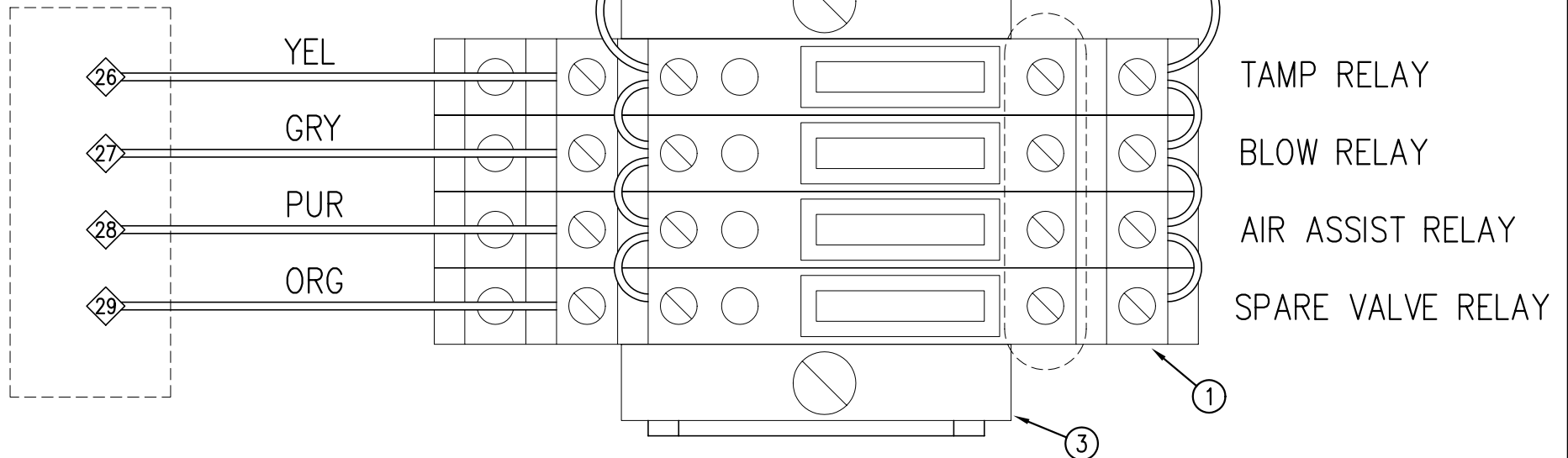
BILL OF MATERIAL

ASS-200a-0495

ASS-200a-0495

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	4	PE-RE1013	VALVE RELAY
②	1	MP-200CE-0212	DIN RAIL
③	2	PE-RE1053	DIN RAIL STOPS
	3	PE-W103602B	22 AWG (BLUE) JUMPER x 2" LONG
	3	PE-W103701B	22 AWG (BROWN) JUMPER x 2" LONG
	1	PE-W103608o	22 AWG (BLUE) WIRE x 11" LONG
	1	PE-W103707o	22 AWG (BROWN) WIRE x 10" LONG
	1	PE-W103802o	22 AWG (ORANGE) WIRE x 10" LONG
	1	PE-W103901o	22 AWG (GRAY) WIRE x 10" LONG
	1	PE-W104002o	22 AWG (PURPLE) WIRE x 10" LONG
	1	PE-W103503o	22 AWG (YELLOW) WIRE x 10" LONG

XX -TB-1 TERMINAL STRIP



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL

PART: VALVE RELAY ASSEMBLY

Dept. Code  
70

REV. 0 REV. DESCRIPTION -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE 10-13-08

REV. BY: ES

Scale: 1=1

Date: 10-13-08

DRAWN BY: E. SANOR

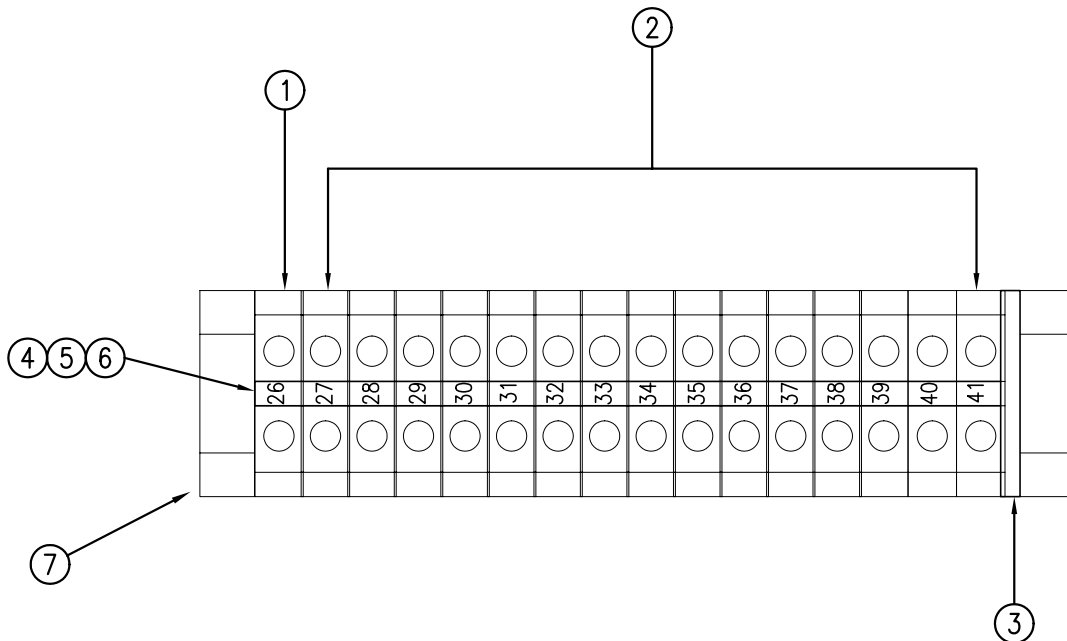
F:\Engineering\Standard Parts\System Components:  
200a\ASS-200a-0495

BILL OF MATERIAL

ASS-200a-0496

ASS-200a-0496

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-TE4000	#1 TERMINAL END BLOCK (modified)
②	1	PE-TE4000	TERMINAL BLOCK
③	1	PE-TE4030	TERMINAL END BARRIER
④	1	PE-MA1040	TERMINAL BLOCK WIRE Nos. (#21-#30)
⑤	1	PE-MA1050	TERMINAL BLOCK WIRE Nos. (#31-#40)
⑥	1	PE-MA1060	TERMINAL BLOCK WIRE Nos. (#41-#50)
⑦	2	PE-TE4020	END STOP



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL

PART: TB1 #'S 26-41 TERMINAL BLOCK ASSEMBLY

Dept. Code  
70

REV. 0 REV. DESCRIPTION -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE 10-13-08

REV. BY: ES

Scale: 1=1

Date: 10-13-08

DRAWN BY: E. SANOR

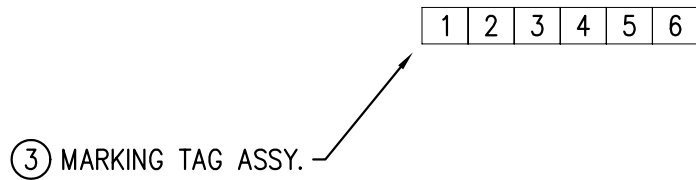
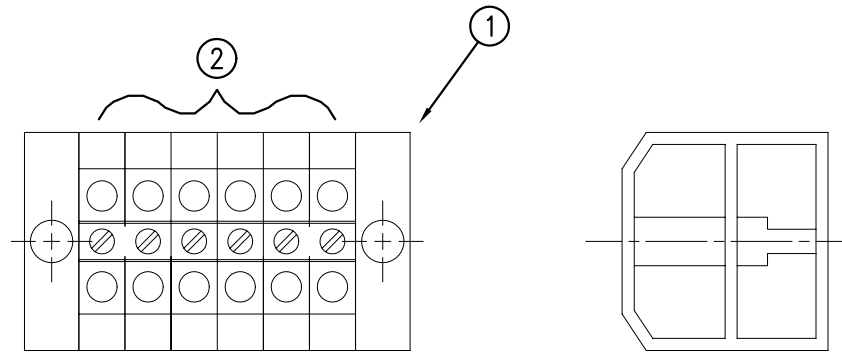
F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0496

BILL OF MATERIAL

ASS-200a-0497

ASS-200a-0497

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	2	PE-TE3110	EPCMB4 TERMINAL BLOCK MOUNTING SECTION
②	6	PE-TE3100	CMB4 TERMINAL BLOCK
③	1	PE-MA1110	#1-10 MARKING TAG



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL

PART: TB-2 TERMINAL ASSEMBLY

Dept. Code  
70

REV. 0 REV. DESCRIPTION -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE 10-13-08

REV. BY: ES

Scale: 1=1

Date: 10-13-08

DRAWN BY: E. SANOR

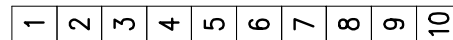
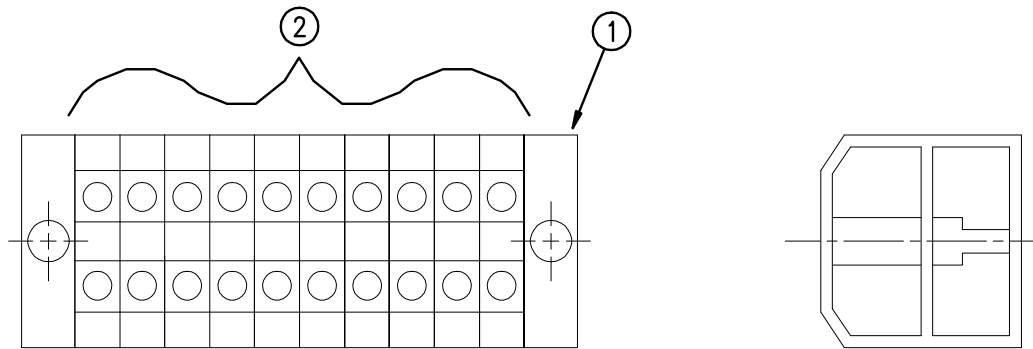
F:\Engineering\Standard Parts\System Components:  
200a\ASS-200a-0497

BILL OF MATERIAL

ASS-200a-0498

ASS-200a-0498

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	2	PE-TE3110	EPCMB4 TERMINAL BLOCK MOUNTING SECTION
②	6	PE-TE3100	CMB4 TERMINAL BLOCK
③	1	PE-MA1110	#1-10 MARKING TAG



③ MARKING TAG ASSY. →

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL

PART: TB3 UNWIND/REWIND TERMINAL BLOCK ASSEMBLY

Dept. Code  
70

REV. 1 REV. DESCRIPTION  
REMOVED JUMPERS FROM DRAWING

REV. DATE  
4-28-15

REV. BY:  
JWS

Scale:  
1=1

Date:  
10-13-08

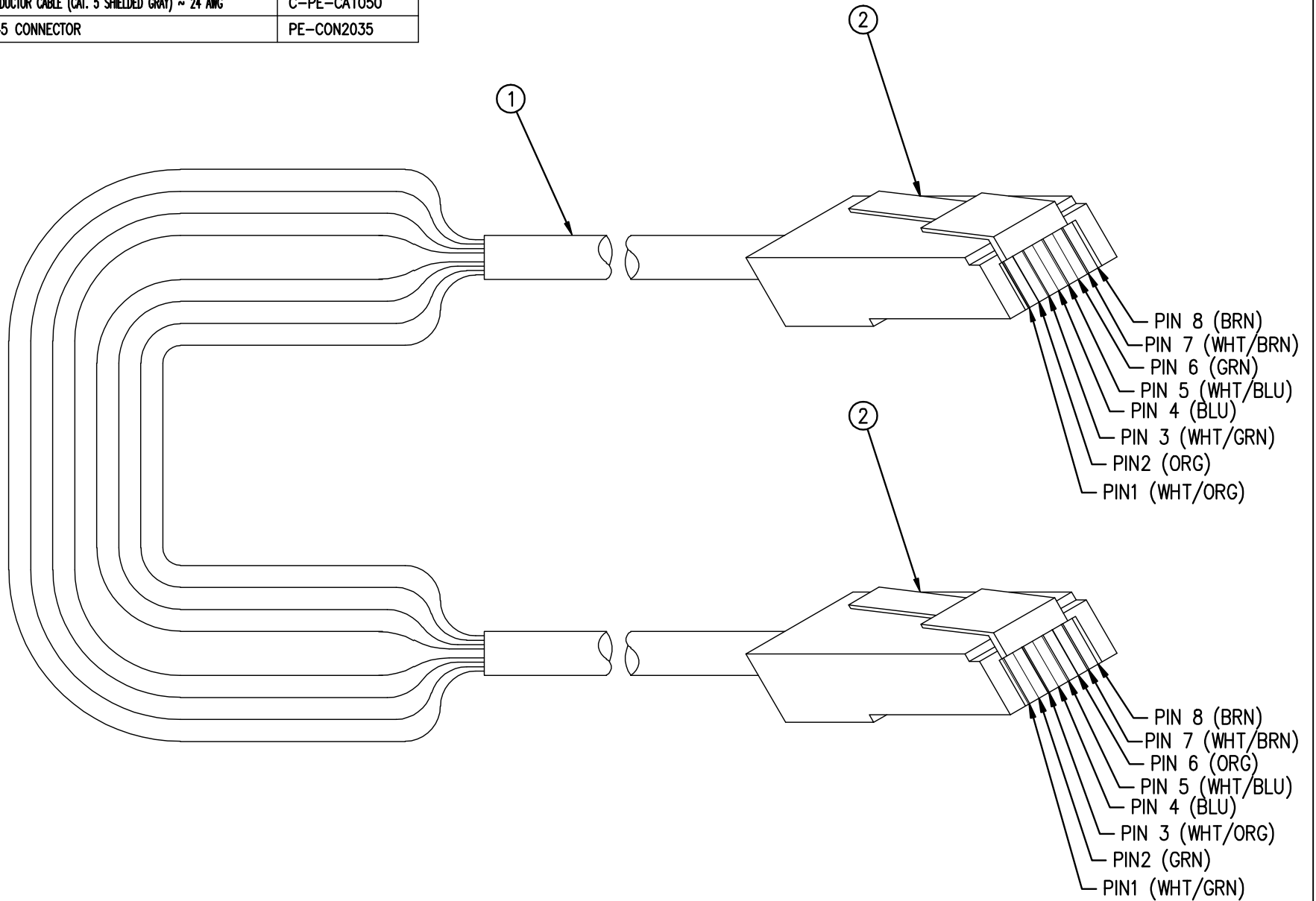
DRAWN BY:  
E. SANOR

F:\Engineering\Standard Parts\System Components:  
200a\ASS-200a-0498

BILL OF MATERIAL

ASS-200a-04101

ASSEMBLY		ASS-200a-04101	
ITEM	QTY	ITEM DESCRIPTION	CTM PART NUMBER
①	17"	8 CONDUCTOR CABLE (CAT. 5 SHIELDED GRAY) ~ 24 AWG	C-PE-CA1050
②	2	RJ-45 CONNECTOR	PE-CON2035



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: ELECTRICAL				PART: ETHERNET DRIVE TO DRIVE COMMUNICATIONS CABLE				Dept. Code 70
REV. 1	REV. DESCRIPTION ADDED 9" TO LENGTH FOR 360ST	REV. DATE 1/20/14	REV. BY: KSM	Scale: 1=1	Date: 05/24/2010	DRAWN BY: ERIC SANOR	F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-04101	



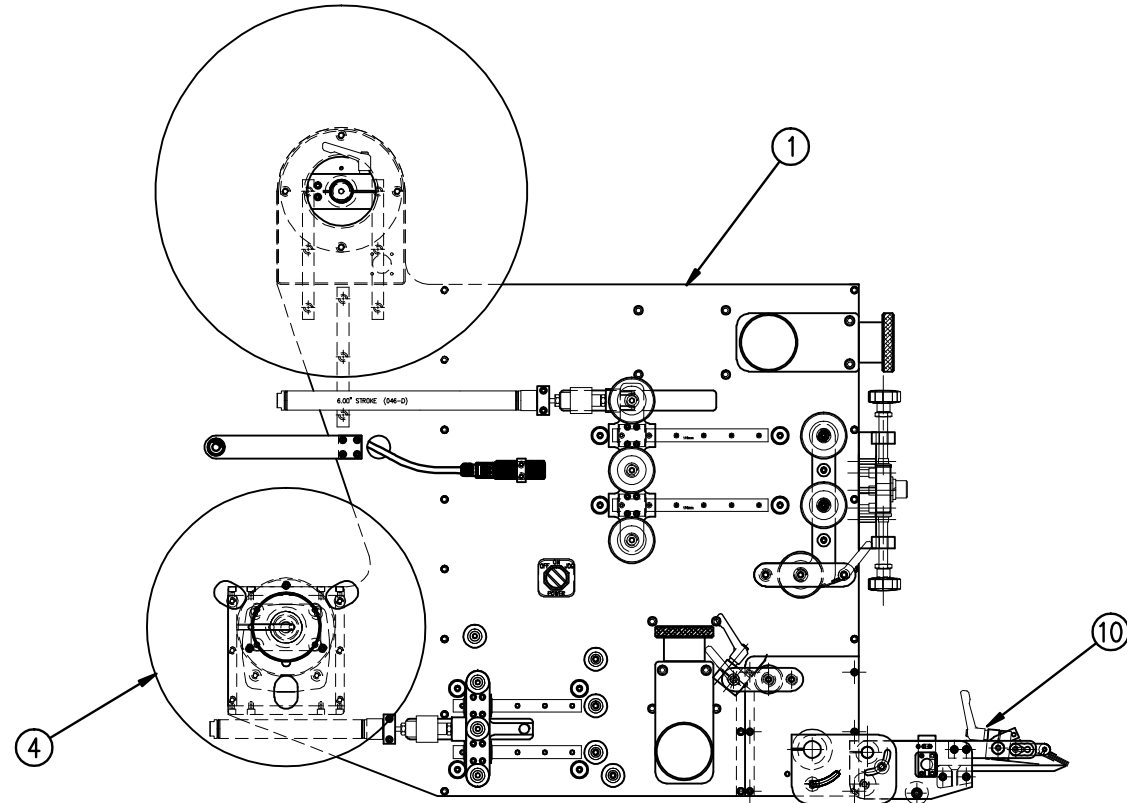
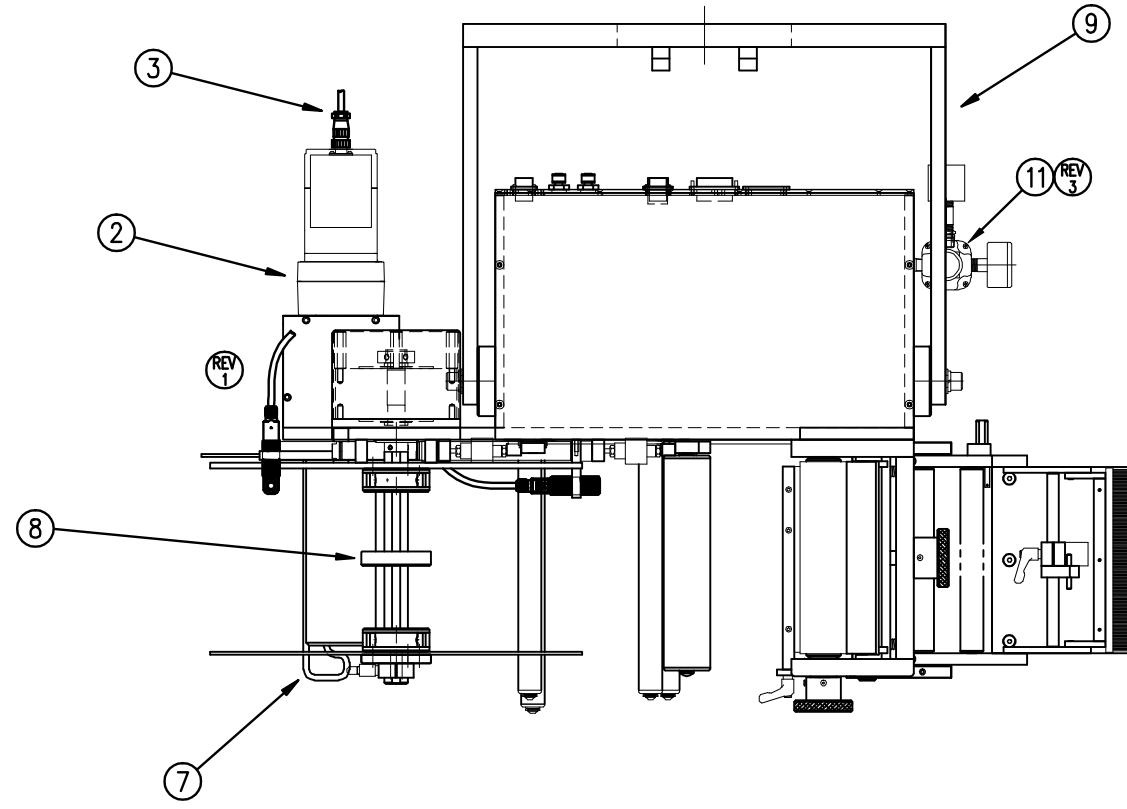
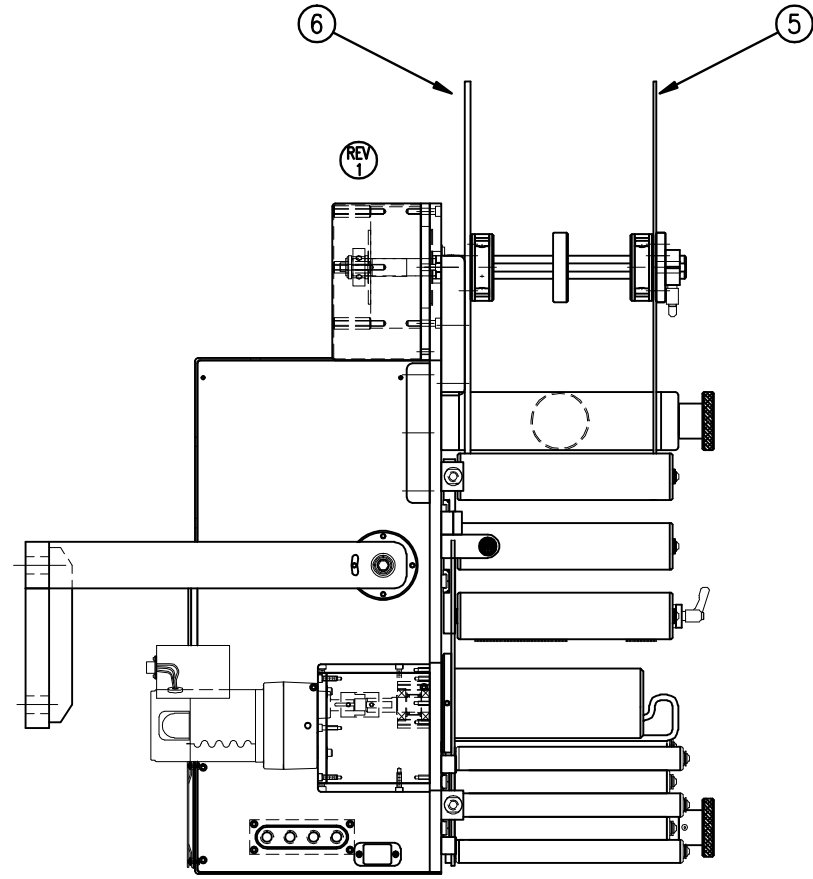


BILL OF MATERIAL

CTM-215a-2155R/L-16X-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	ASS-200A-2155R-PP	7.50" RIGHT HAND CORE UNIT ASSEMBLY
	1	ASS-200A-2155L-PP	7.50" LEFT HAND CORE UNIT ASSEMBLY
②	1	ASS-200-3157R/L	POWERED REWIND MOTOR ASSY. (Std MANDREL)
	1	ASS-200-3157R/L-C	POWERED REWIND MOTOR ASSY. (COLLAPSIBLE MANDREL)
③	1	ASS-200a-0493	REWIND MOTOR CABLE
	1	ASS-200-3162X	3.00" CORE REWIND DISK ASSEMBLY (SHOWN) ADD "A" SUFFIX FOR REELS UP MOUNTING
④	1	ASS-200-3162CX	3.00" CORE COLLAPSIBLE REWIND DISK ASSY ADD "A" SUFFIX FOR REELS UP MOUNTING
⑤	1	ASS-200-3133-NS	16" OUTSIDE SIDE. UNWIND DISK ASSEMBLY
⑥	1	ASS-200-3132A-NS	16" INSIDE SIDE ALUM. UNWIND DISK ASSEMBLY
⑦	1	ASS-200-3140-7	3.00" CORE, COLLAPSIBLE, 7.50" WIDE Appl.
⑦	1	MP-200-2391	3.00" CORE Std. MANDREL, 7.50" WIDE Appl.
	1	PF-200-2272	REWIND MANDREL PIN, 7.50" WIDE Appl.
⑧	1	MP-200-0267CS	UNWIND CORE SUPPORT SPACER
⑨	1	WAS-200a-0301	U-ARM WELDMENT
⑩	1	MOD-215-2105R-PP	RH 7.5" WIDE MERGE NOSE MODULE
	1	MOD-215-2105L-PP	LH 7.5" WIDE MERGE NOSE MODULE
⑪	1	ASS-200-3107	HI/LO REGULATOR ASSEMBLY
○	144*	PM-BR1075	STATIC CONTROL TINSEL (NOT SHOWN)

REV 3  
REV 2



CTM-215a-2155R/L-16X-PP

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR

REV. DESCRIPTION  
3 ADDED HI/LO REGULATOR TO BOM

REV. DATE  
07/13/2016

REV. BY  
ES

Scale:  
1=8

Date:  
07/14/11

Drawn By:  
Jeffery Mendenhall

F:\Engineering\System Components  
215a\CTM-215a-2155R/L-16X-PP

Part: 7.5" WIDE MERGE TYPE POWERED UNWIND/POWERED REWIND APPLICATOR

Dept. Code  
70

BILL OF MATERIAL

CTM-215a-0155R/L-20X-PP

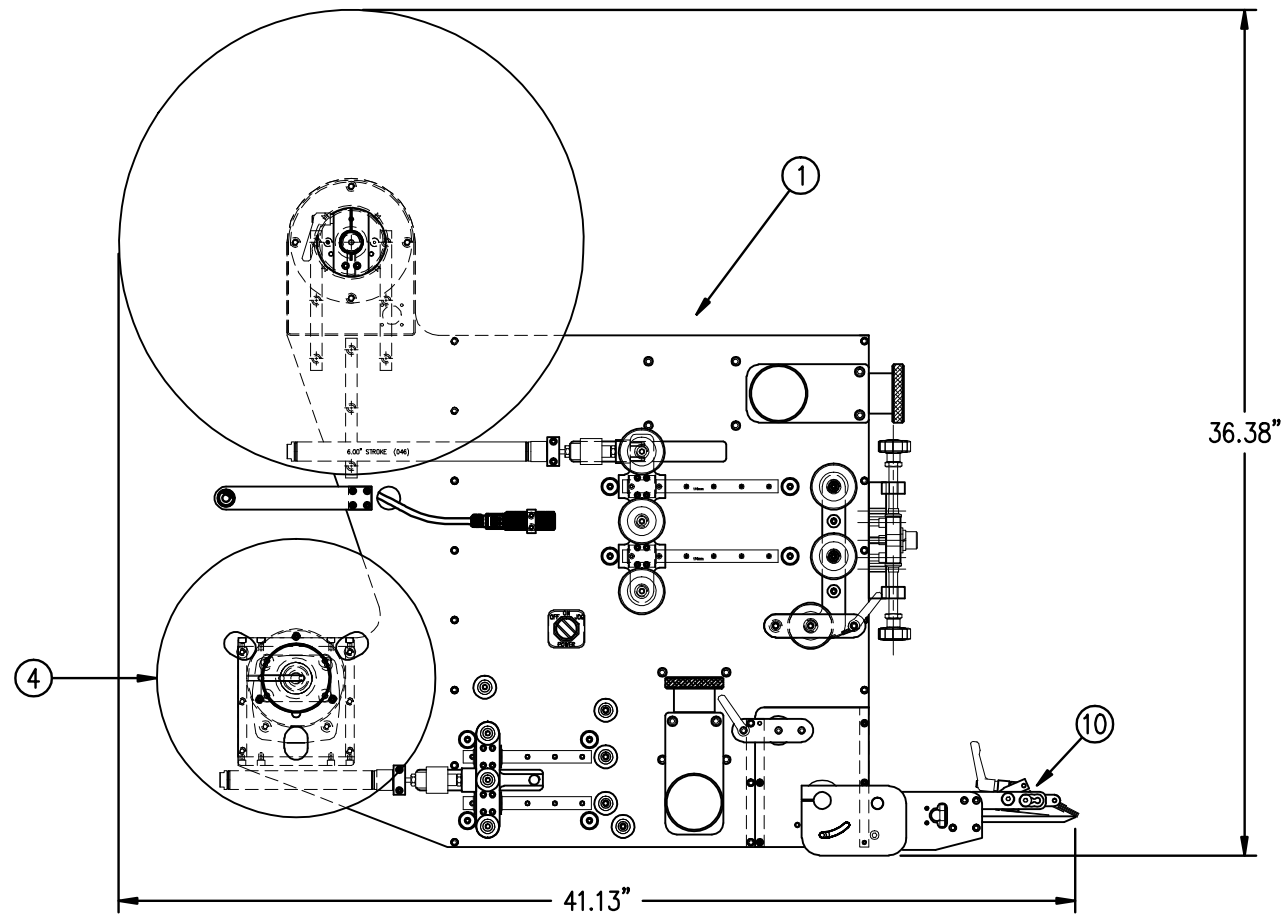
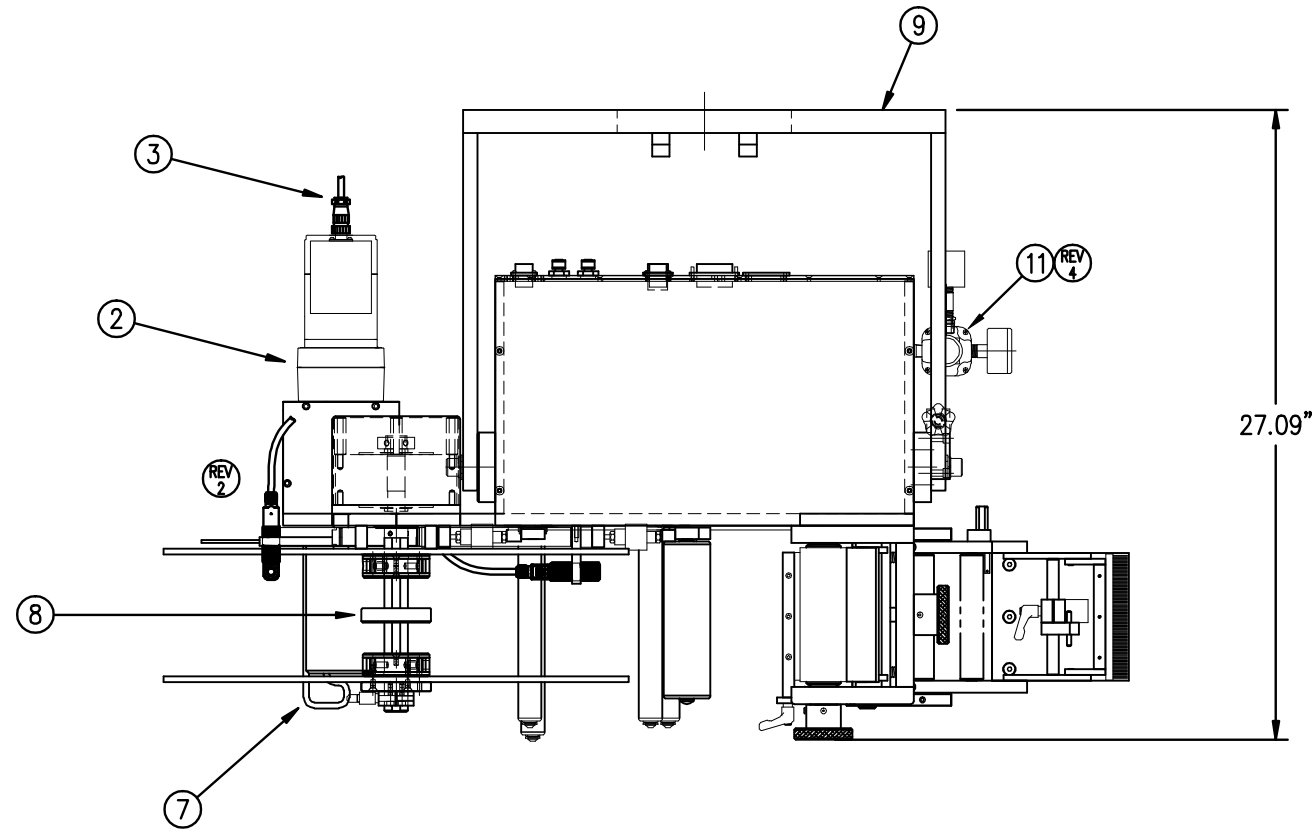
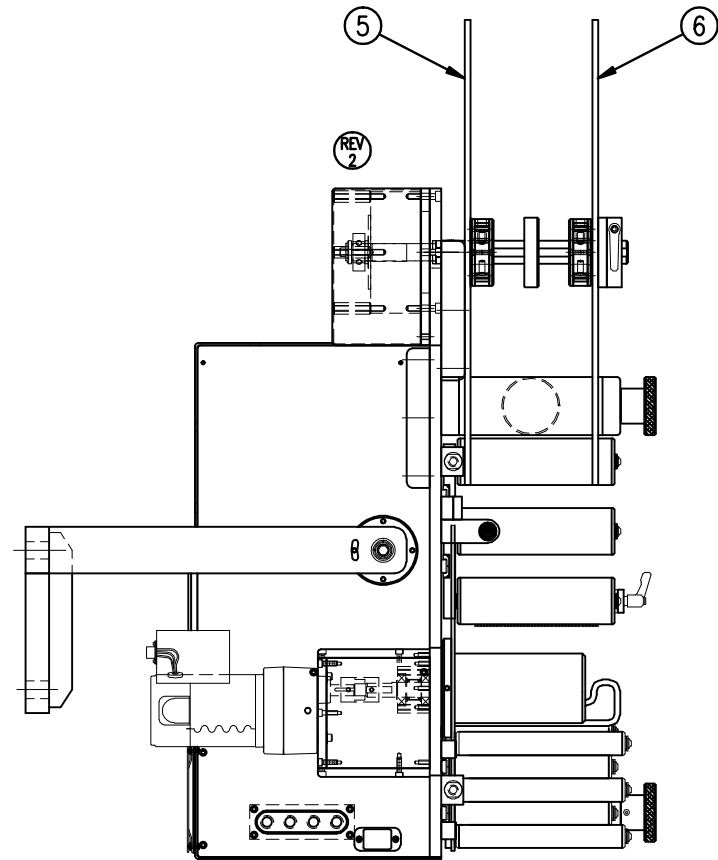
ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	ASS-200A-0155R-PP	RIGHT HAND CORE UNIT ASSEMBLY
	1	ASS-200A-0155L-PP	LEFT HAND CORE UNIT ASSEMBLY
②	1	ASS-200-3157RL	POWERED REWIND MOTOR ASSY. (Std MANDREL)
	1	ASS-200-3157RL-C	POWERED REWIND MOTOR ASSY. (COLLAPSIBLE MANDREL)
③	1	ASS-200a-0493	REWIND MOTOR CABLE
④	1	ASS-200-3162X	3.00" CORE REWIND DISK ASSEMBLY (SHOWN) ADD "A" SUFFIX FOR REELS UP MOUNTING
	1	ASS-200-3162CX	3.00" CORE COLLAPSIBLE REWIND DISK ASSY ADD "A" SUFFIX FOR REELS UP MOUNTING
⑤	1	ASS-200-3160A-NS	20" ALUMINUM INSIDE UNWIND DISK ASSEMBLY W/ NO SLIP CORE SUPPORT ASSEMBLY
⑥	1	ASS-200-3159-NS	20" OUTSIDE UNWIND DISK ASSEMBLY W/ NO SLIP CORE SUPPORT ASSEMBLY
⑦	1	ASS-200-3140-5	3.00" CORE, COLLAPSIBLE, 5.00" WIDE Appl.
	1	MP-200-0391	3.00" CORE Std. MANDREL, 5.00" WIDE Appl.
	1	PM-200-0272	REWIND MANDREL PIN, 5.00" WIDE Appl.
⑧	1	MP-200-0267CS	UNWIND CORE SUPPORT SPACER
⑨	1	WAS-200a-0301	U-ARM WELDMENT
⑩	1	MOD-215-0105R-PP	RH 5" WIDE MERGE NOSE MODULE
	1	MOD-215-0105L-PP	LH 5" WIDE MERGE NOSE MODULE
⑪	1	ASS-200-3107	HI/LO REGULATOR ASSEMBLY
○	144"	PM-BR1075	STATIC CONTROL TINSEL (NOT SHOWN)

REV 1

REV 1

REV 4

REV 3



CTM-215a-0155R/L-20X-PP

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

Dept. Code 70

Standard Parts System Components: 215a\CTM-215a-0155R/L-20X-PP

DATE: 10-14-08

SCALE: 1=8

DRAWN BY: E. SANOR

REV. DATE: 07/13/2016

REV. BY: ES

REV. DESCRIPTION: 360a SERIES POWERED UNWIND APPLICATOR

REV. 4: ADDED HI/LO REGULATOR TO BOM

TITLE: 360a SERIES POWERED UNWIND/POWERED REWIND APPLICATOR

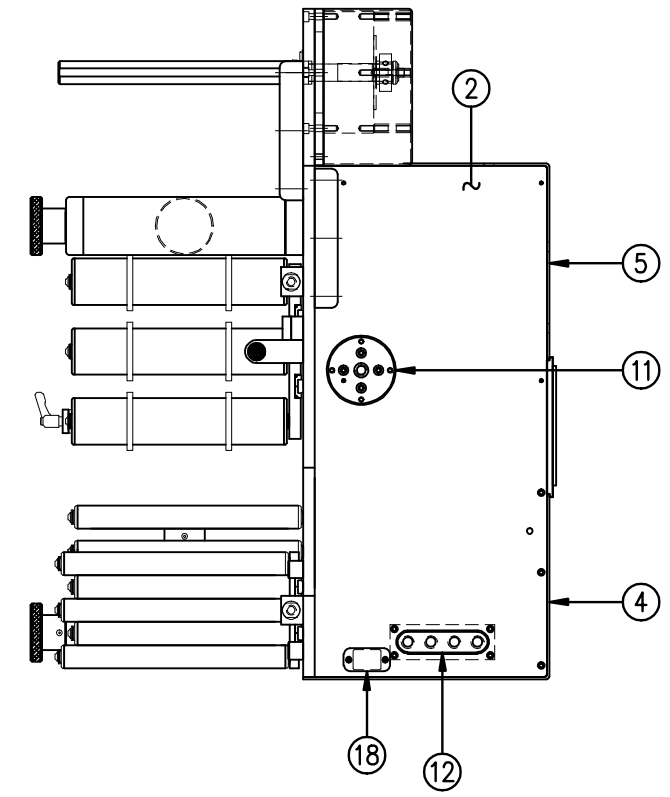
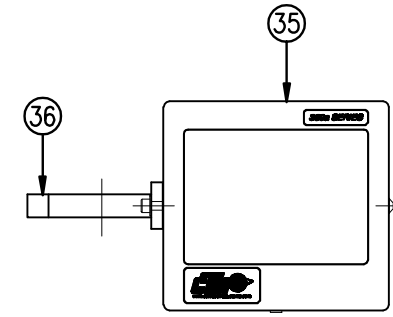
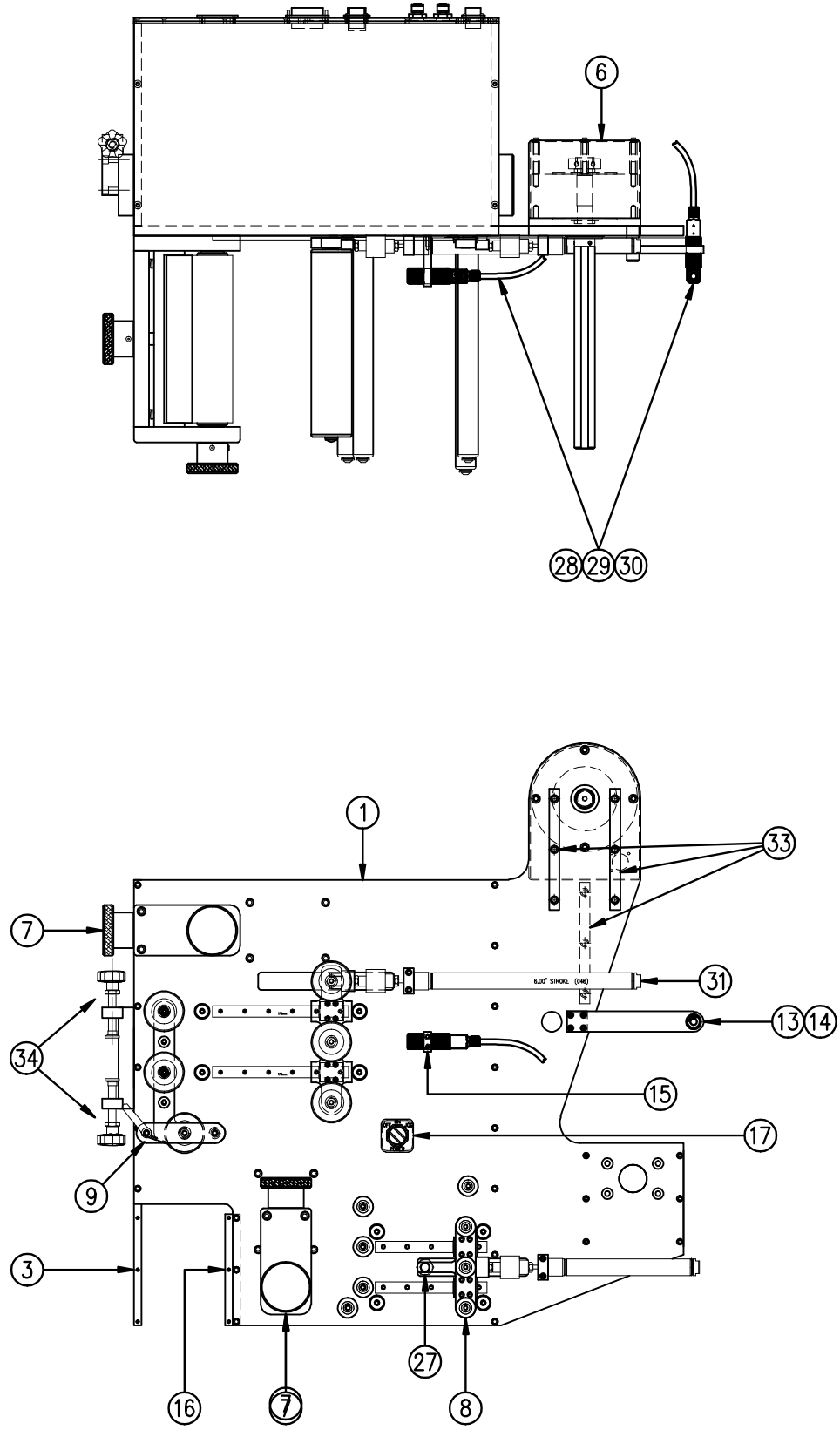
BILL OF MATERIAL

ASS-200a-2155L-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200a-0301L	FACEPLATE - LH
②	1	MP-200a-0303L	RIGHT HOUSING SIDEFRAME - LH
③	1	MP-200a-0302L	LEFT HOUSING SIDEFRAME - LH
④	1	ASS-200A-0141L-PP	BOTTOM HOUSING COVER ASSEMBLY - LH
⑤	1	PM-200a-0302	TOP HOUSING COVER
⑥	1	PM-200a-0303	BRAKE GUARD
⑦	2	ASS-200-2129	7.50" (W) NIP DRIVE ASSEMBLY
⑧	1	ASS-200a-2304	7.50"(W) POWERED REWIND SLIDE ROLLER ASSEMBLY
⑨	1	ASS-200a-2301L	7.50"(W) UNWIND FESTOON IDLER ROLLER ASSEMBLY - LH
⑩	1	ASS-200a-2303	UNWIND BRAKE ASSEMBLY
⑪	1	MP-200-0273	U-ARM MOUNT
⑫	2	MP-200-0250	AIR MANIFOLD CONNECTOR
⑬	1	MP-200a-0310	UNWIND DIAMETER SENSOR MOUNT
⑭	1	MP-200a-0312	UNWIND SENSOR MOUNT SPACER
⑮	1	MP-200a-0309	UNWIND FESTOON SENSOR MOUNT
⑯	1	MP-200-0251	TIE PLATE
⑰	1	ASS-200a-0451	JOG SWITCH ASSEMBLY
⑱	1	MP-200CE-0248	BLANK COVER PLATE
⑲	1	ASS-200a-0453-HS	MOTOR ASSEMBLY
⑳	1	ASS-200a-0453	MOTOR ASSEMBLY
㉑	2	MP-200-0233	NIP DRIVE PULLEY
㉒	2	PM-BELT1018	TIMING BELT
㉓	1	ASS-200a-0159L-PP	UNWIND/REWIND ELECTRIC SHELF ASSEMBLY - LH
㉔	1	ASS-200a-0123L-PP	WIRED BOARD ASSEMBLY - LH
㉕	1	ASS-200a-0410	24 VDC POWER SUPPLY ASSEMBLY
㉖	1	SAS-200-0454	FAN ASSEMBLY
㉗	1	ASS-200-0460	PROXIMITY SENSOR CABLE ASSEMBLY
㉘	1	ASS-200-0494	UNWIND BRAKE & ULTRASONIC SENSOR CABLES ASSEMBLY
㉙	1	PE-SE1039	ULTRASONIC, Q.D. SENSOR
㉚	1	PE-SE1019	ULTRASONIC, Q.D. SENSOR
㉛	1	ASS-200A-2302	UNWIND FESTOON SLIDE ROLLER ASSEMBLY for 360a POWERED UNWIND
㉜	1	MP-200a-0322	UNWIND BRAKE SPACER PLATE
㉝	3	MP-200a-0323	UNWIND BRAKE SUPPORT RIB
㉞	1	ASS-200-0149	PIVOT MICRO-ADJUST ASSEMBLY
㉟	1	ASS-200A-0126	MAPLE DISPLAY UNIT ASSEMBLY FOR 360a APPLICATOR
㊱	1	ASS-200-0138	DISPLAY MOUNT ASSEMBLY
○	1	PE-C01020	POWER CORD
○	1	PM-LB1052	CTM LOGO LABEL for 360a APPLICATORS

REV 3

REV 1



ASS-200a-2155L-PPs1

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR

REV. DESCRIPTION: 3 UPDATED GUARD

REV. DATE: 10/19/17

REV. BY: TDR

REV. BY: TDR

Scale: 1=8

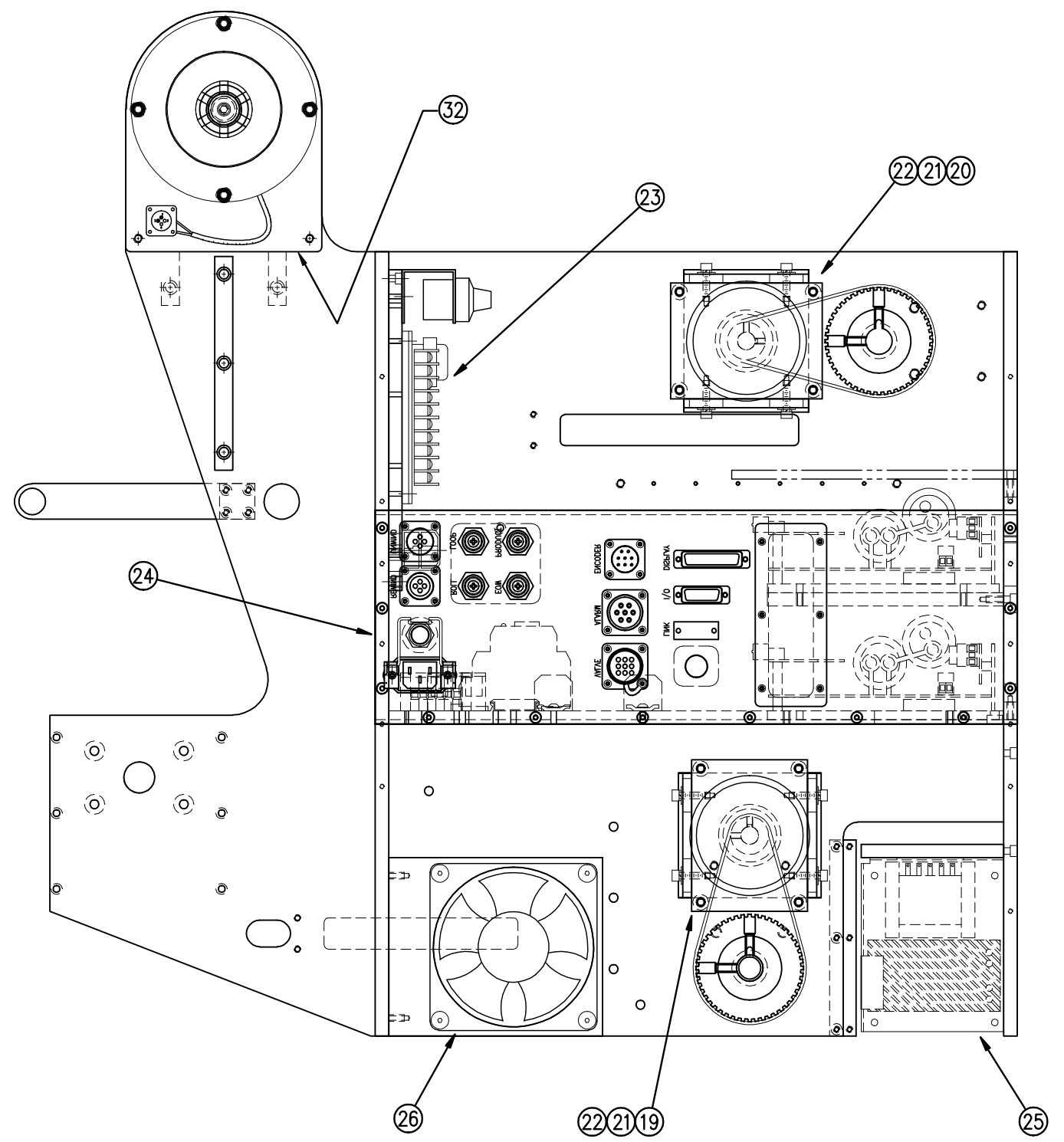
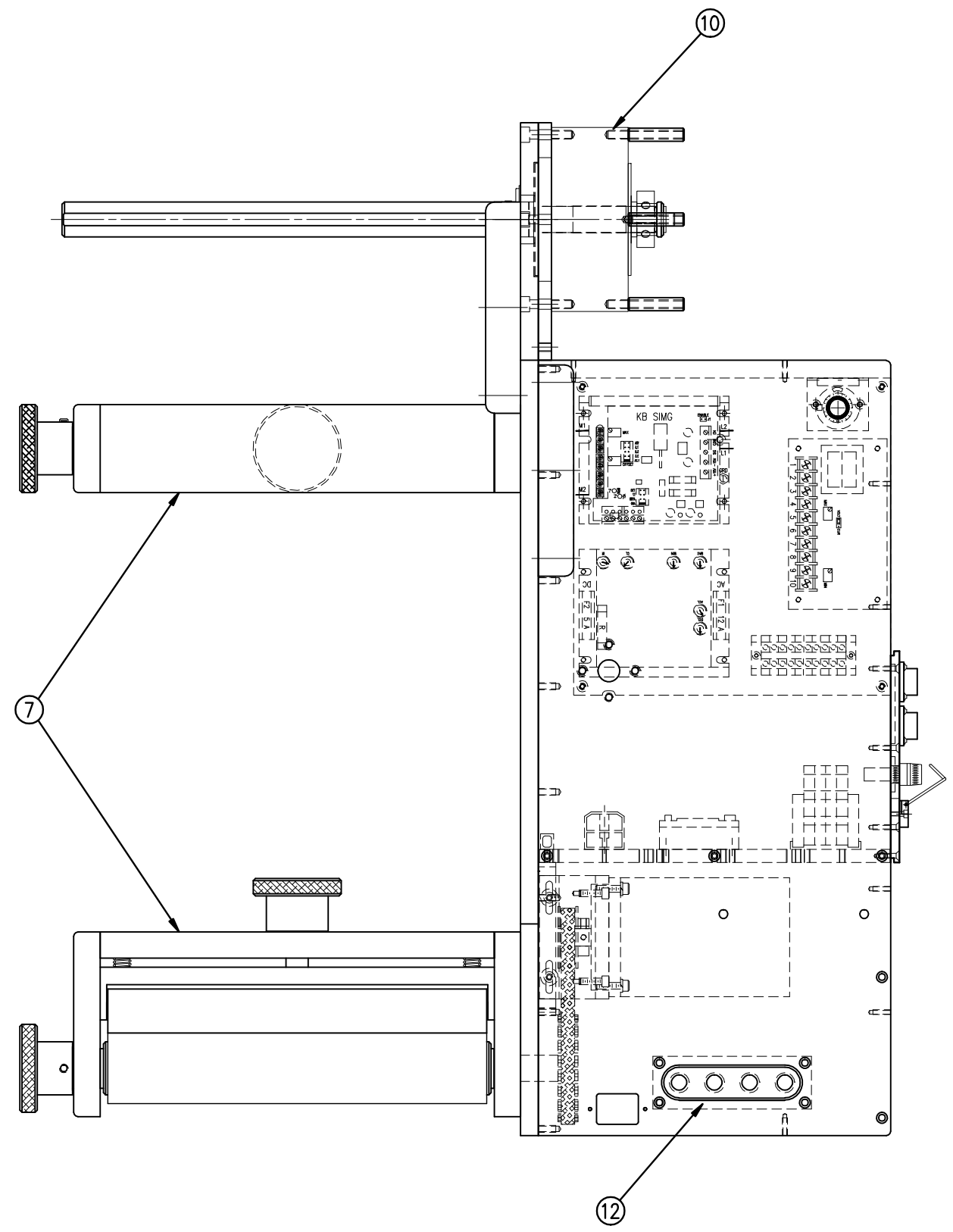
Date: 08/13/2015

DRAWN BY: ES

Part: LEFT HAND 7.50' (W) CORE UNIT ASSEMBLY: SHEET 1

Dept. Code: 70

F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-2155L-PPs1



NOTE: IN THESE VIEWS, POWERED REWIND SLIDE ROLLER & UNWIND FESTOON ROLLER ASSEMBLIES AS WELL AS STAINLESS COVERS AND GUARD ARE NOT SHOWN.

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.		Dept. Code	70
TITLE: 360a SERIES POWERED UNWIND APPLICATOR		PART: LEFT HAND 7.5" CORE UNIT ASSEMBLY: SHEET 2	
REV. 1	REV. DESCRIPTION UPDATED BRAKE GUARD SPACER DIAMETER	REV. BY: TDR	DATE: 08/13/2015
	REV. DATE: 10/17/17	Scale: 1=4	ES
		Drawn By: ES	Component: 200a\ASS-200a-2155L-PPs2

BILL OF MATERIAL

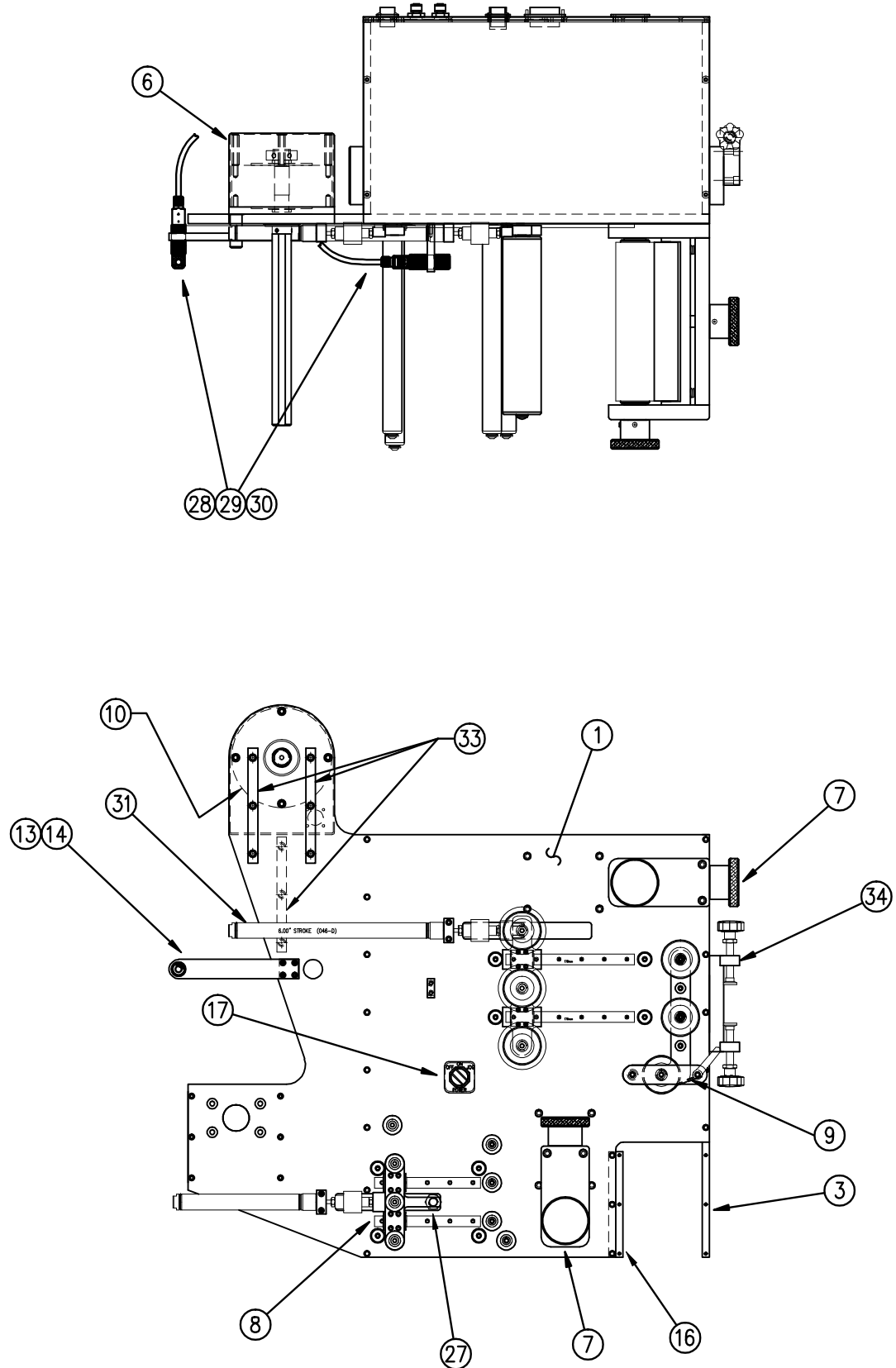
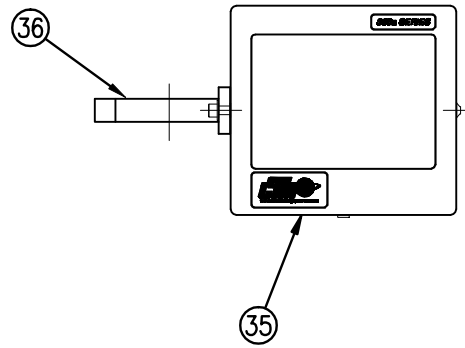
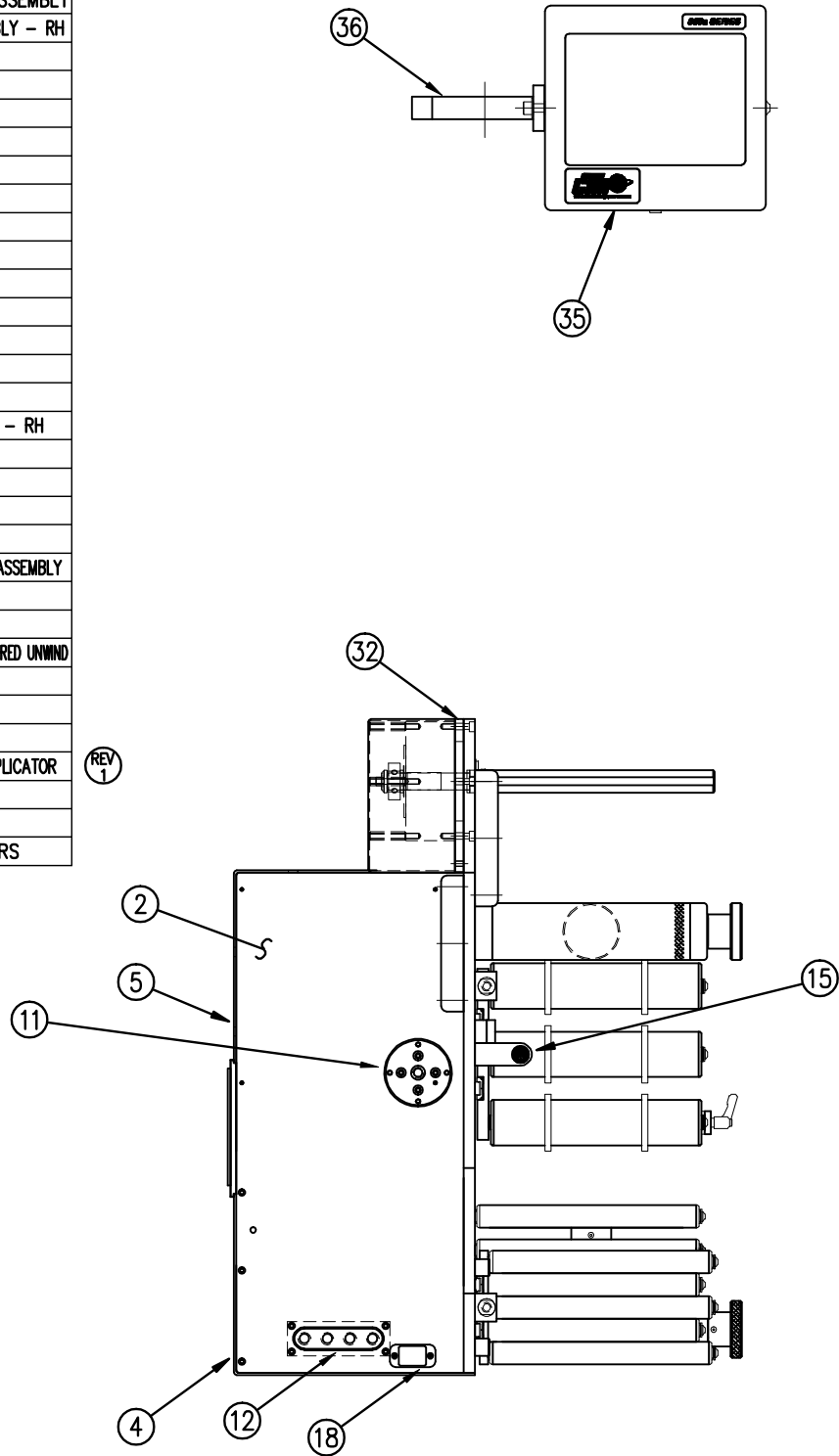
ASS-200a-2155R-PP

ASS-200a-2155R-PPs1

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200a-0301R	FACEPLATE - RH
②	1	MP-200a-0303R	LEFT HOUSING SIDEFRAME - RH
③	1	MP-200a-0302R	RIGHT HOUSING SIDEFRAME - RH
④	1	ASS-200A-0141R-PP	BOTTOM HOUSING COVER ASSEMBLY - RH
⑤	1	PM-200a-0302	TOP HOUSING COVER
⑥	1	PM-200a-0303	BRAKE GUARD
⑦	2	ASS-200-2129	NIP DRIVE ASSEMBLY, 7.50" WIDE
⑧	1	ASS-200a-2304	7.5" POWERED REWIND SLIDE ROLLER ASSEMBLY
⑨	1	ASS-200a-2301R	7.5" UNWIND FESTOON IDLER ROLLER ASSEMBLY - RH
⑩	1	ASS-200a-2303	7.5" UNWIND BRAKE ASSEMBLY
⑪	1	MP-200-0273	U-ARM MOUNT
⑫	2	MP-200-0250	AIR MANIFOLD CONNECTOR
⑬	1	MP-200a-0310	UNWIND DIAMETER SENSOR MOUNT
⑭	1	MP-200a-0312	UNWIND SENSOR MOUNT SPACER
⑮	1	MP-200a-0309	UNWIND FESTOON SENSOR MOUNT
⑯	1	MP-200-0251	TIE PLATE
⑰	1	ASS-200a-0451	JOG SWITCH ASSEMBLY
⑱	1	MP-200CE-0248	BLANK COVER PLATE
⑲	1	ASS-200a-0453-HS	MOTOR ASSEMBLY
⑳	1	ASS-200a-0453	MOTOR ASSEMBLY
㉑	2	MP-200-0233	NIP DRIVE PULLEY
㉒	2	PM-BELT1018	TIMING BELT
㉓	1	ASS-200a-0159R-PP	UNWIND/REWIND ELECTRIC SHELF ASSEMBLY - RH
㉔	1	ASS-200a-0123R-PP	WIRED BOARD ASSEMBLY - RH
㉕	1	ASS-200a-0410	24 VDC POWER SUPPLY ASSEMBLY
㉖	1	SAS-200-0454	FAN ASSEMBLY
㉗	1	ASS-200-0460	PROXIMITY SENSOR CABLE ASSEMBLY
㉘	1	ASS-200-0494	UNWIND BRAKE & ULTRASONIC SENSOR CABLES ASSEMBLY
㉙	1	PE-SE1039	ULTRASONIC, Q.D. SENSOR
㉚	1	PE-SE1019	ULTRASONIC, Q.D. SENSOR
㉛	1	ASS-200A-2302	UNWIND FESTOON SLIDE ROLLER ASSEMBLY for 360a POWERED UNWIND
㉜	1	MP-200a-0322	UNWIND BRAKE SPACER PLATE
㉝	3	MP-200a-0323	UNWIND BRAKE SUPPORT RIB
㉞	1	ASS-200-0149	PIVOT MICRO-ADJUST ASSEMBLY
㉟	1	ASS-200A-0126	MAPLE DISPLAY UNIT ASSEMBLY FOR 360a APPLICATOR
㊱	1	ASS-200-0138	DISPLAY MOUNT ASSEMBLY
○	1	PE-C01020	POWER CORD
○	1	PM-LB1052	CTM LOGO LABEL for 360a APPLICATORS

REV 3

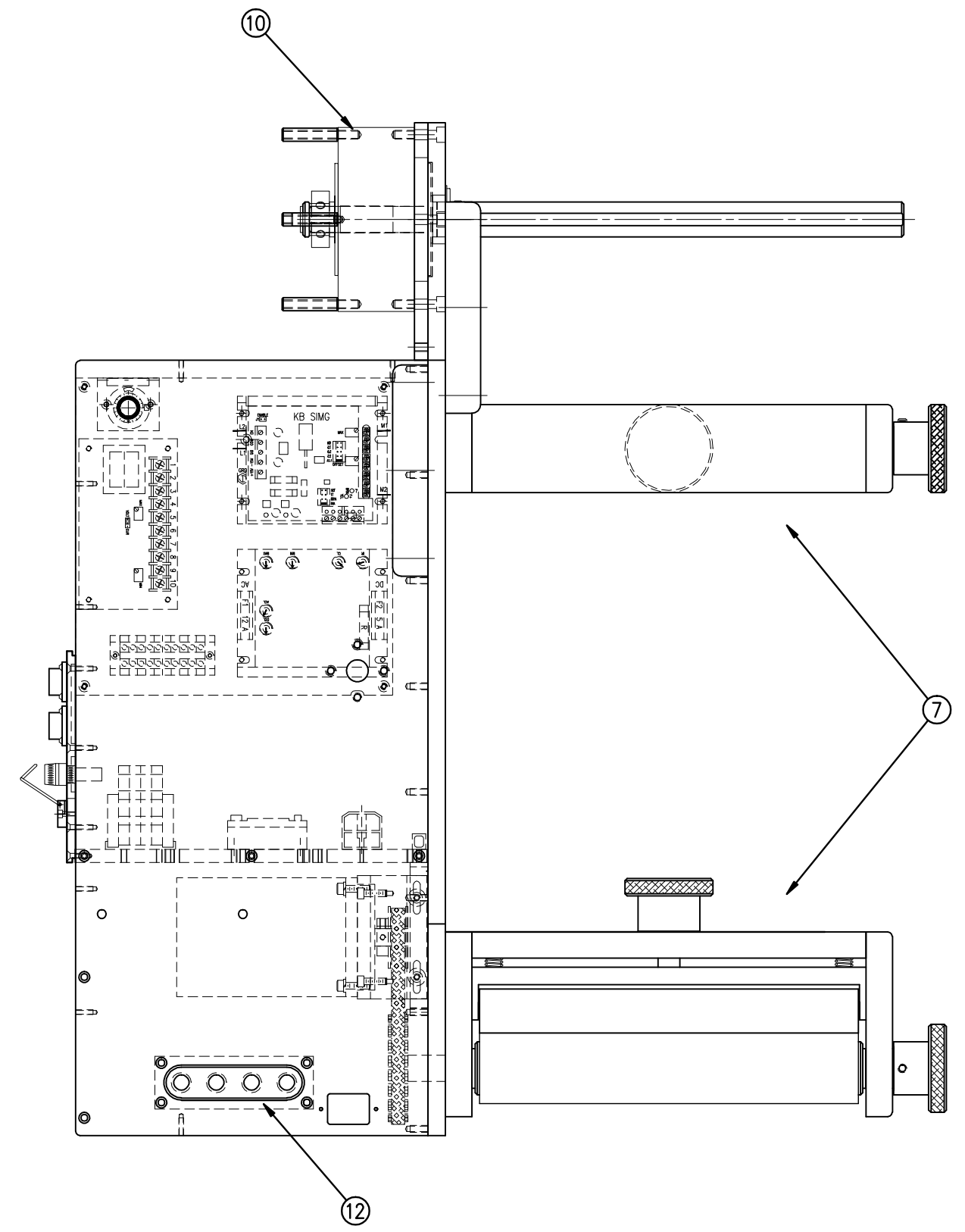
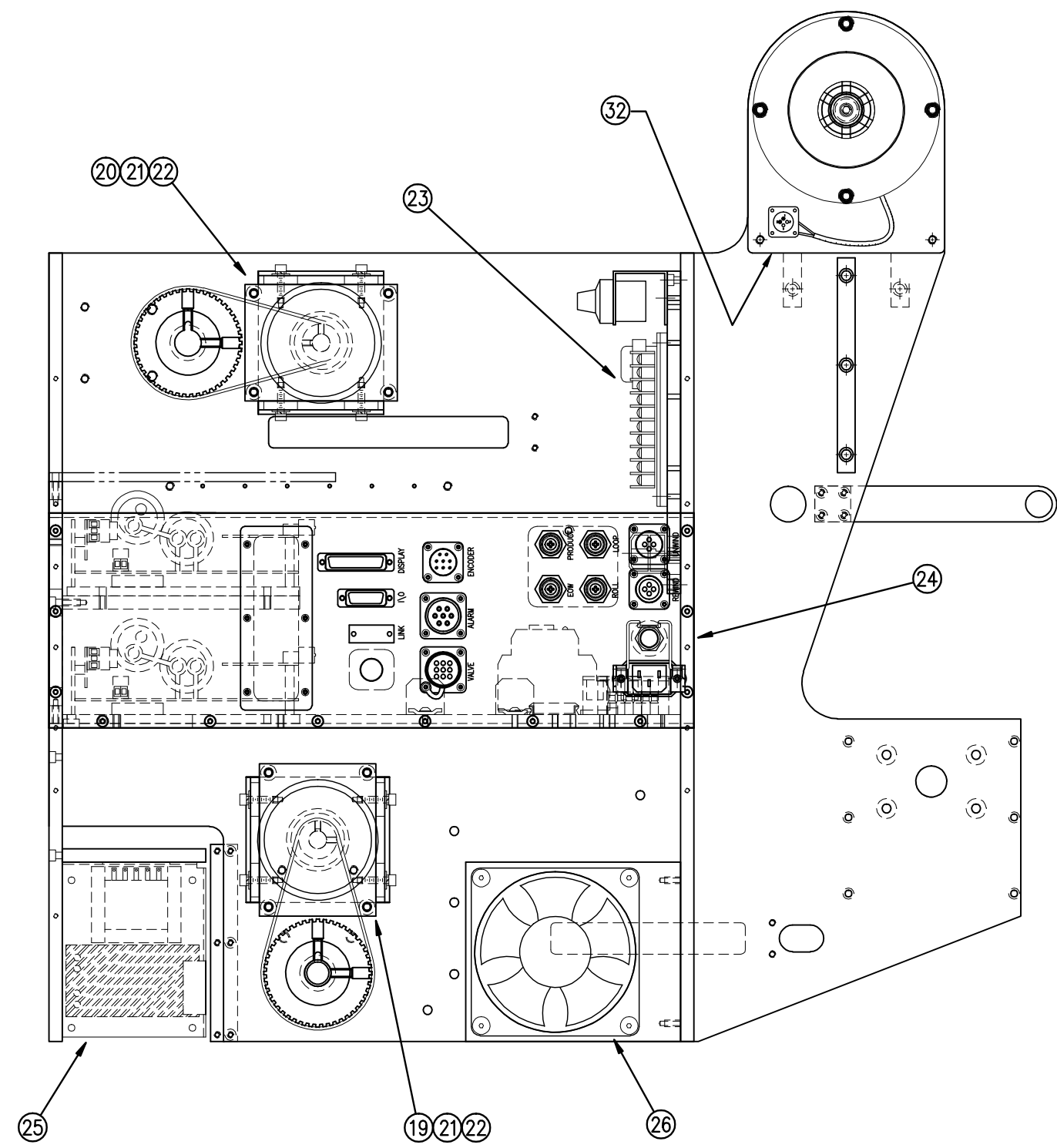
REV 1



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

REV. 3  
REV. DATE 10/19/17  
REV. BY TDR  
REV. BY JEFFERY MENDENHALL  
Scale: 1=8  
Date: 07/14/11  
PART: RIGHT HAND 7.5" CORE UNIT ASSEMBLY: SHEET 1  
Dept. Code 70  
F:\Engineering\Standard Parts\System Components\200a\ASS-200a-2155R-PPs1

TITLE: 360a SERIES POWERED UNWIND APPLICATOR



NOTE: IN THESE VIEWS, POWERED REWIND SLIDE ROLLER & UNWIND FESTOON ROLLER ASSEMBLIES AS WELL AS STAINLESS COVERS AND GUARD ARE NOT SHOWN.

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.				Dept. Code
TITLE: 360a SERIES POWERED UNWIND APPLICATOR				70
REV. 1	REV. DESCRIPTION	REV. DATE	REV. BY	DATE
1	UPDATED BRAKE GUARD SPACER DIAMETER	10/17/17	2017	07/14/11
PART: RIGHT HAND 7.50" CORE UNIT ASSEMBLY: SHEET 2				Components
F:\Engineering\Standard Parts\System Components				200a\ASS-200a-2155R-PPs2
DRAWN BY: Jeffery Mendenhall				Scale: 1=4

BILL OF MATERIAL

ASS-200a-0155L-PP

ASS-200a-0155L-PPs1

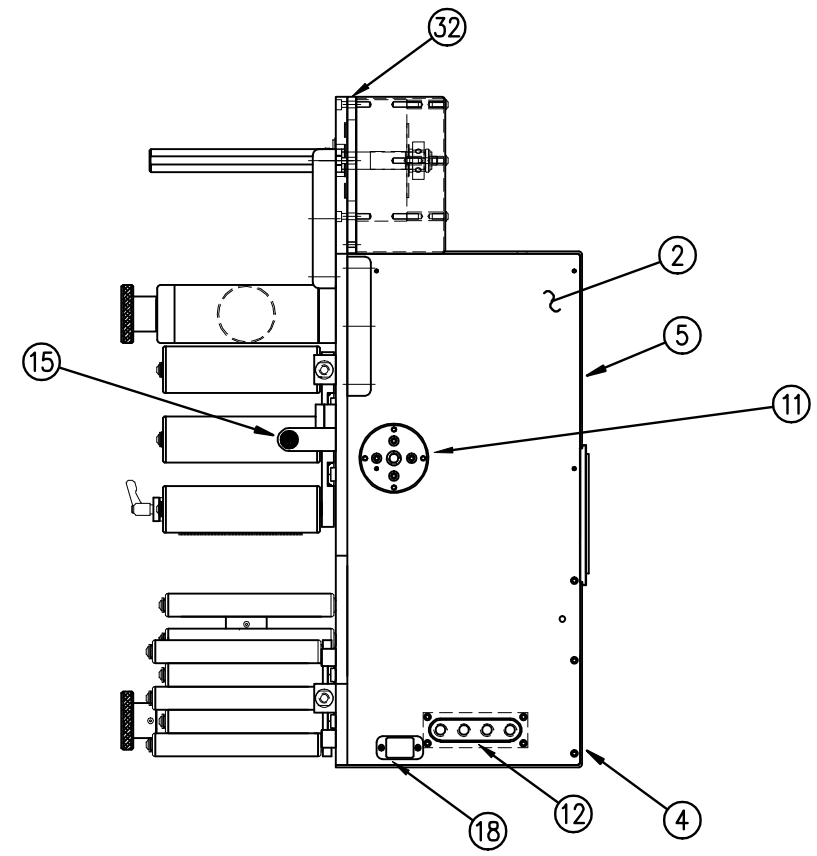
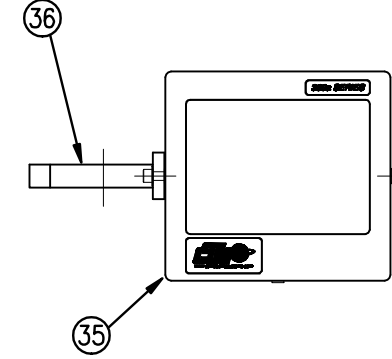
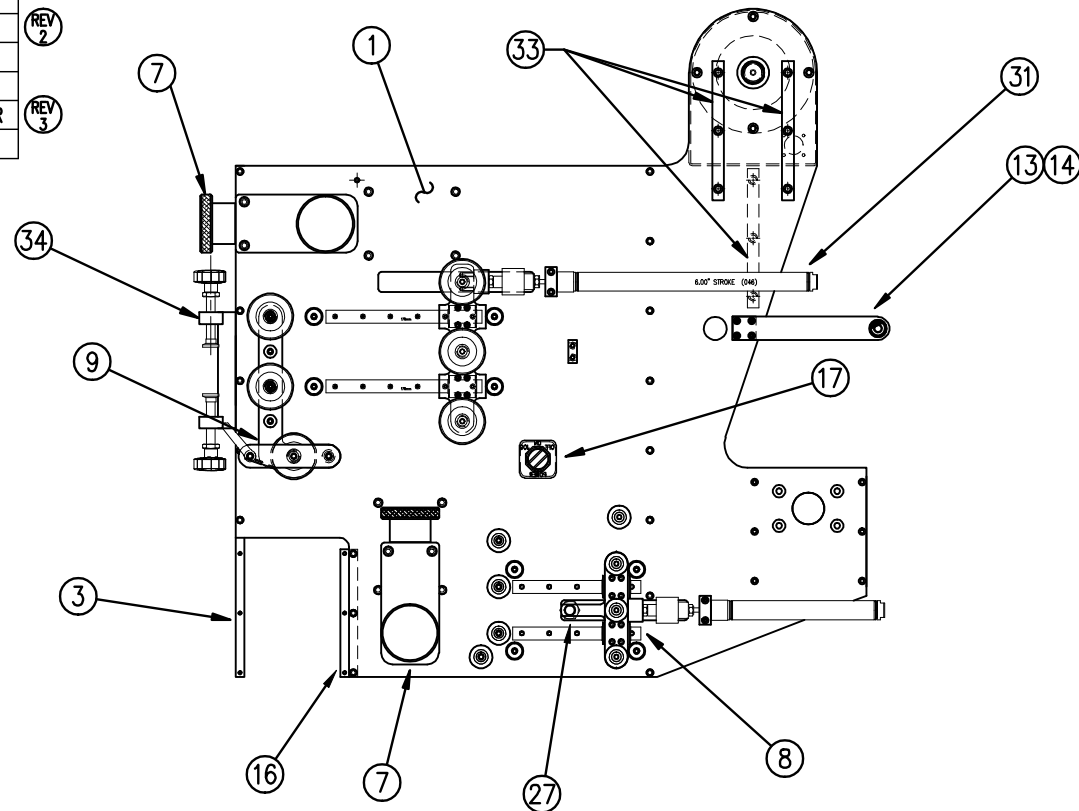
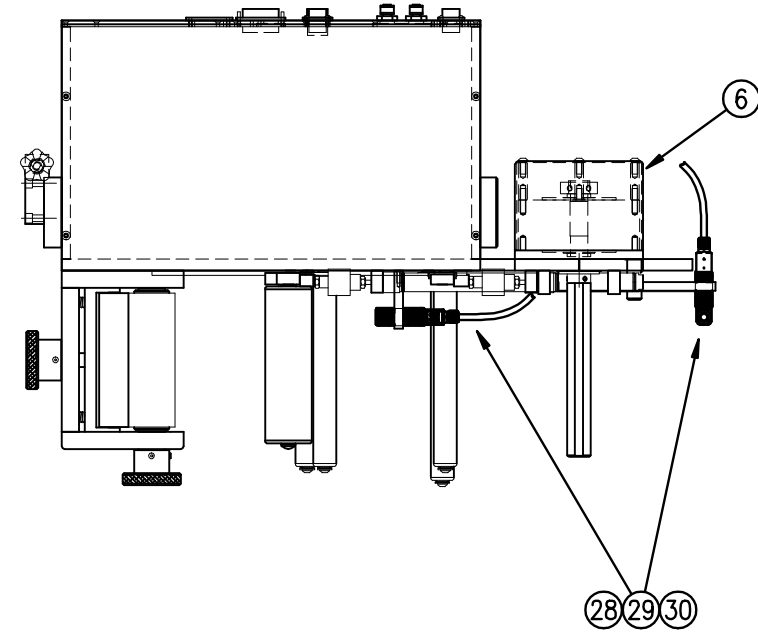
ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200a-0301L	FACEPLATE - LH
②	1	MP-200a-0303L	RIGHT HOUSING SIDEFRAME - LH
③	1	MP-200a-0302L	LEFT HOUSING SIDEFRAME - LH
④	1	ASS-200A-0141L-PP	BOTTOM HOUSING COVER ASSEMBLY - LH
⑤	1	PM-200a-0302	TOP HOUSING COVER
⑥	1	PM-200a-0303	BRAKE GUARD
⑦	2	ASS-200-0129	NIP DRIVE ASSEMBLY
⑧	1	ASS-200a-0304	POWERED REWIND SLIDE ROLLER ASSEMBLY
⑨	1	ASS-200a-0301L	UNWIND FESTOON IDLER ROLLER ASSEMBLY - LH
⑩	1	ASS-200a-0303	UNWIND BRAKE ASSEMBLY
⑪	2	MP-200-0273	U-ARM MOUNT
⑫	2	MP-200-0250	AIR MANIFOLD CONNECTOR
⑬	1	MP-200a-0310	UNWIND DIAMETER SENSOR MOUNT
⑭	1	MP-200a-0312	UNWIND SENSOR MOUNT SPACER
⑮	1	MP-200a-0309	UNWIND FESTOON SENSOR MOUNT
⑯	1	MP-200-0251	TIE PLATE
⑰	1	ASS-200a-0451	JOG SWITCH ASSEMBLY
⑱	1	MP-200CE-0248	BLANK COVER PLATE
⑲	1	ASS-200a-0453-HS	MOTOR ASSEMBLY
⑳	1	ASS-200a-0453	MOTOR ASSEMBLY
㉑	2	MP-200-0233	NIP DRIVE PULLEY
㉒	2	PM-BELT1018	TIMING BELT
㉓	1	ASS-200a-0159L-PP	UNWIND/REWIND ELECTRIC SHELF ASSEMBLY - LH
㉔	1	ASS-200a-0123L-PP	WIRED BOARD ASSEMBLY - LH
㉕	1	ASS-200a-0410	24 VDC POWER SUPPLY ASSEMBLY
㉖	1	SAS-200-0454	FAN ASSEMBLY
㉗	1	ASS-200-0460	PROXIMITY SENSOR CABLE ASSEMBLY
㉘	1	ASS-200-0494	UNWIND BRAKE & ULTRASONIC SENSOR CABLES ASSEMBLY
㉙	1	PE-SE1039	ULTRASONIC, Q.D. SENSOR
㉚	1	C-PE-SE1019	ULTRASONIC, Q.D. SENSOR
㉛	1	ASS-200A-0302	UNWIND FESTOON SLIDE ROLLER ASSEMBLY for 360a POWERED UNWIND
○	1	PE-C01020	POWER CORD
○	1	PM-LB1052	CTM LOGO LABEL for 360a APPLICATORS
㉜	1	MP-200a-0322	UNWIND BRAKE SPACER PLATE
㉝	3	MP-200a-0323	UNWIND BRAKE SUPPORT RIB
㉞	1	ASS-200-0149	PIVOT MICRO-ADJUST ASSEMBLY
㉟	1	ASS-200A-0126	MAPLE DISPLAY UNIT ASSEMBLY FOR 360A APPLICATOR
㊱	1	ASS-200-0138	DISPLAY MOUNT ASSEMBLY

REV 5

REV 1

REV 2

REV 3



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

Dept. Code: 70

REV. DESCRIPTION: 5 UPDATED GUARD

REV. DATE: 10/19/17

REV. BY: TDR

Scale: 1=8

Date: 10-14-08

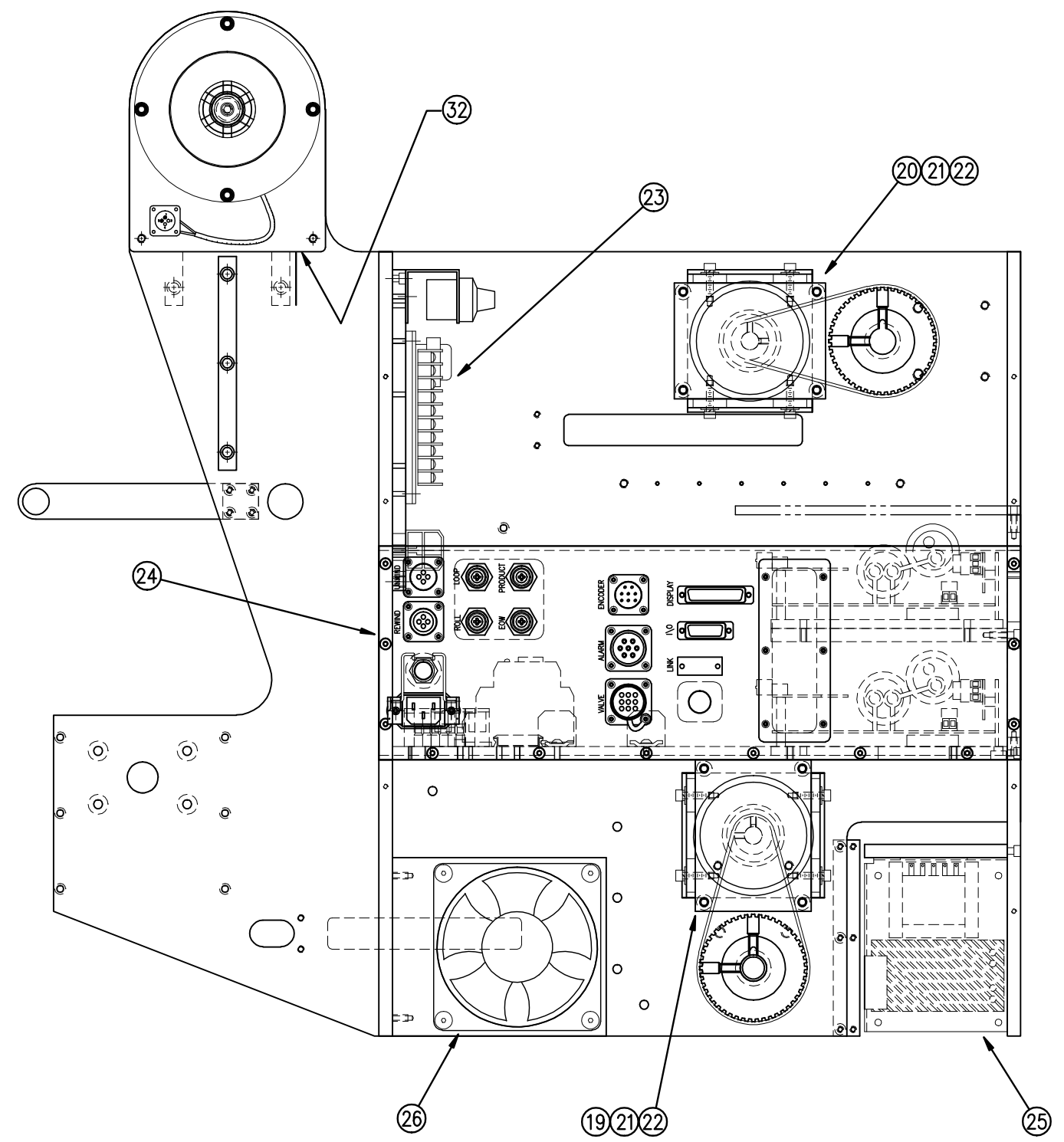
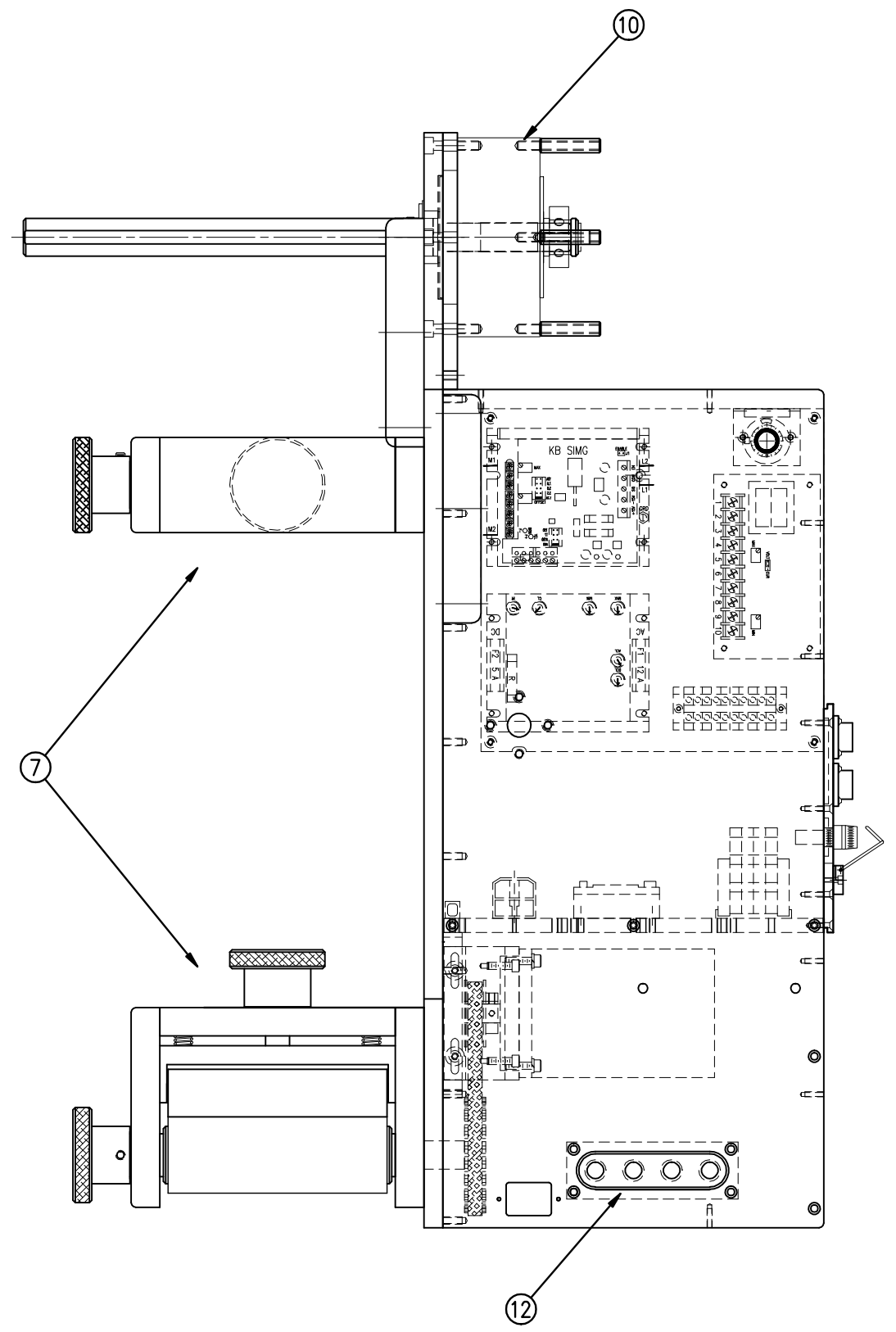
DRAWN BY: E. SANOR

Part: LEFT HAND CORE UNIT ASSEMBLY: SHEET 1

F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0155L-PPs1

TITLE: 360a SERIES POWERED UNWIND APPLICATOR





NOTE: IN THESE VIEWS, POWERED REWIND SLIDE ROLLER & UNWIND FESTOON ROLLER ASSEMBLIES AS WELL AS STAINLESS COVERS AND GUARD ARE NOT SHOWN.

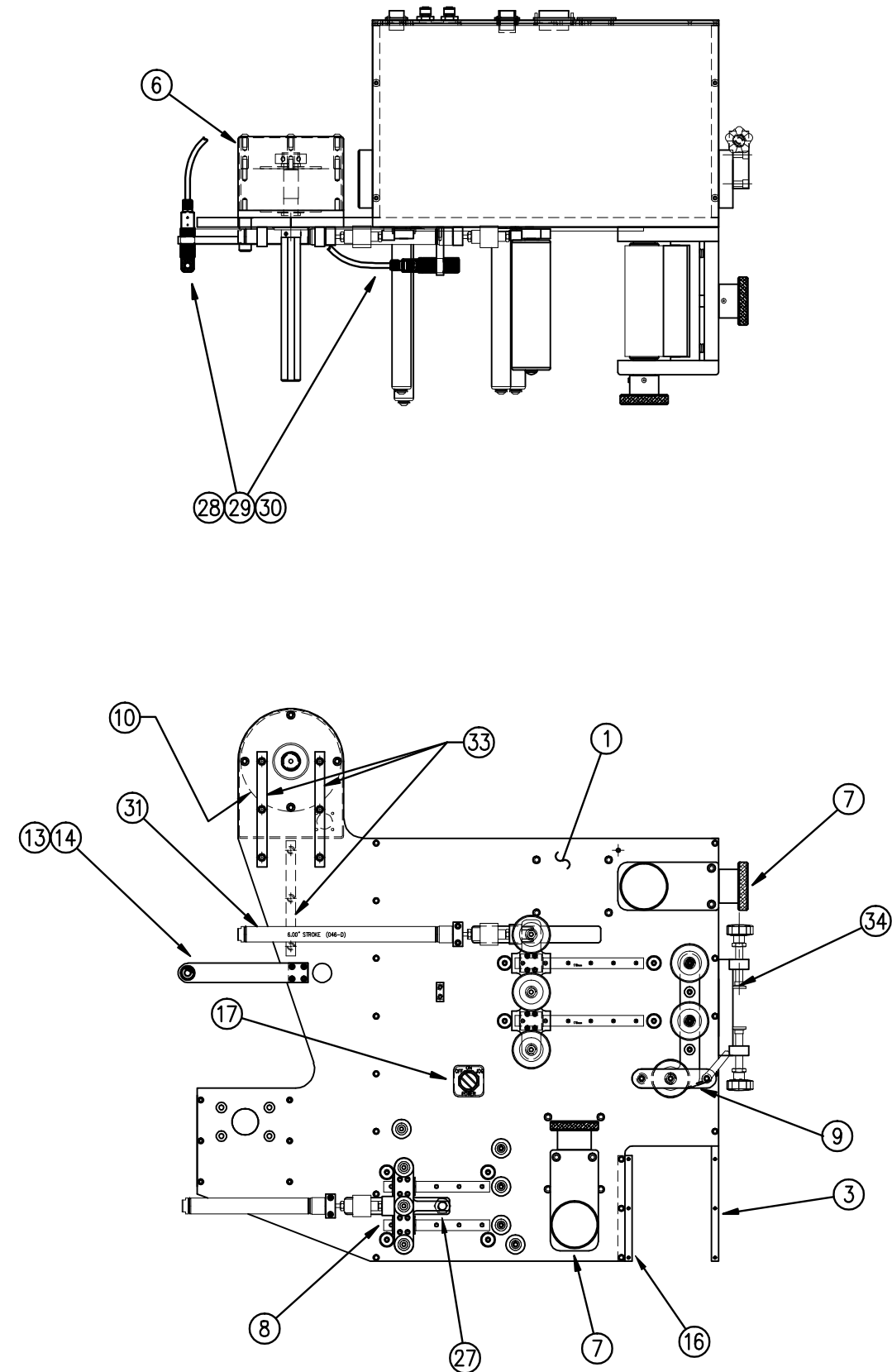
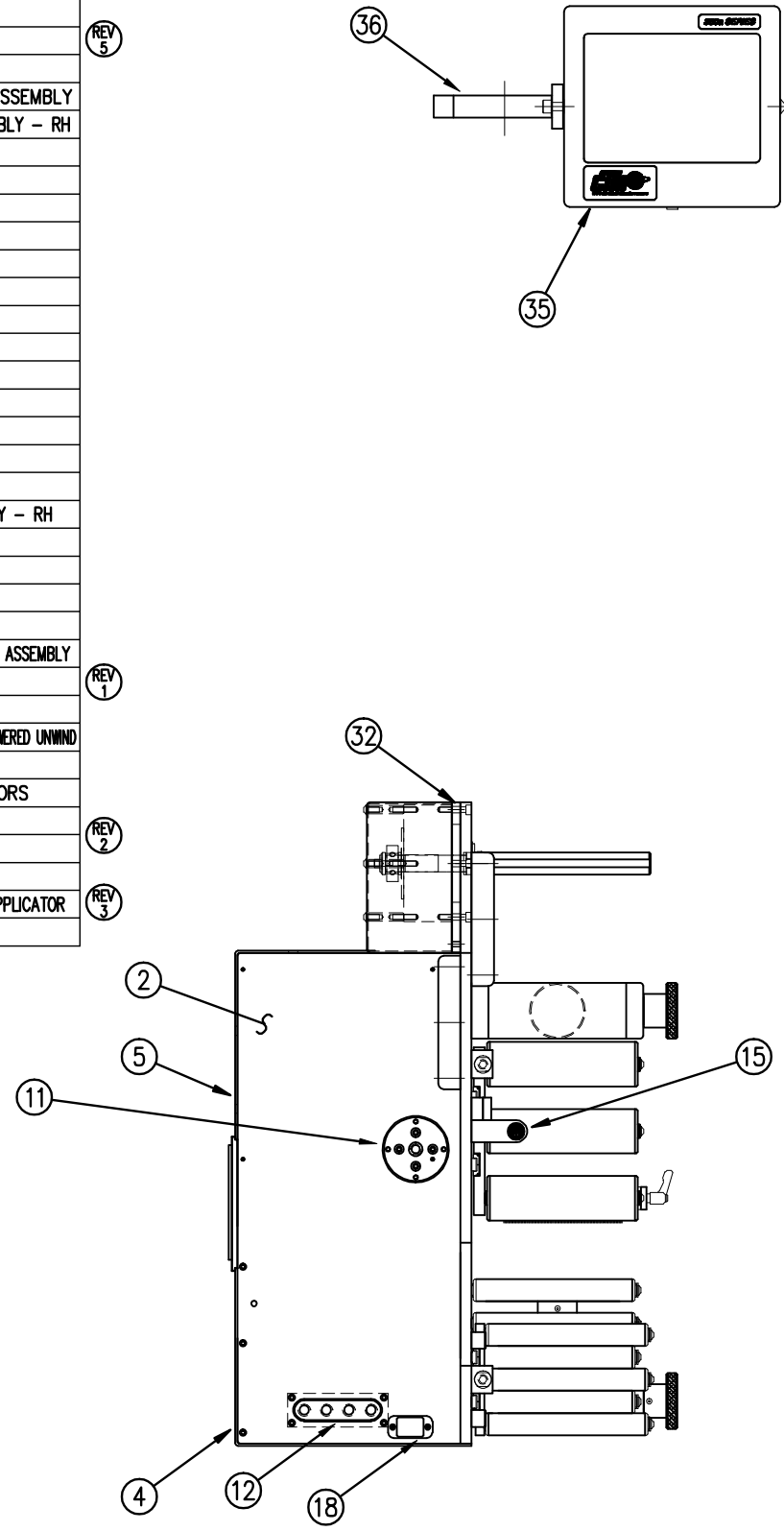
THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.		Dept. Code	70
TITLE: 360a SERIES POWERED UNWIND APPLICATOR		PART: LEFT HAND CORE UNIT ASSEMBLY: SHEET 2	
REV. 1	REV. DESCRIPTION UPDATED BRAKE GUARD SPACER DIAMETER	REV. BY: TDR	DATE: 10-14-08
REV. DATE: 10/17/17	SCALE: 1=4	DRAWN BY: E. SANOR	COMPONENTS: 200a\ASS-200a-0155L-PPs2

BILL OF MATERIAL

ASS-200a-0155R-PP

ASS-200a-0155R-PPs1

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200a-0301R	FACEPLATE - RH
②	1	MP-200a-0303R	LEFT HOUSING SIDEFAME - RH
③	1	MP-200a-0302R	RIGHT HOUSING SIDEFAME - RH
④	1	ASS-200A-0141R-PP	BOTTOM HOUSING COVER ASSEMBLY - RH
⑤	1	PM-200a-0302	TOP HOUSING COVER
⑥	1	PM-200a-0303	BRAKE GUARD
⑦	2	ASS-200-0129	NIP DRIVE ASSEMBLY
⑧	1	ASS-200a-0304	5" POWERED REWIND SLIDE ROLLER ASSEMBLY
⑨	1	ASS-200a-0301R	5" UNWIND FESTOON IDLER ROLLER ASSEMBLY - RH
⑩	1	ASS-200a-0303	5" UNWIND BRAKE ASSEMBLY
⑪	2	MP-200-0273	U-ARM MOUNT
⑫	2	MP-200-0250	AIR MANIFOLD CONNECTOR
⑬	1	MP-200a-0310	UNWIND DIAMETER SENSOR MOUNT
⑭	1	MP-200a-0312	UNWIND SENSOR MOUNT SPACER
⑮	1	MP-200a-0309	UNWIND FESTOON SENSOR MOUNT
⑯	1	MP-200-0251	TIE PLATE
⑰	1	ASS-200a-0451	JOG SWITCH ASSEMBLY
⑱	1	MP-200CE-0248	BLANK COVER PLATE
⑲	1	ASS-200a-0453-HS	MOTOR ASSEMBLY
⑳	1	ASS-200a-0453	MOTOR ASSEMBLY
㉑	2	MP-200-0233	NIP DRIVE PULLEY
㉒	2	PM-BELT1018	TIMING BELT
㉓	1	ASS-200a-0159R-PP	UNWIND/REWIND ELECTRIC SHELF ASSEMBLY - RH
㉔	1	ASS-200a-0123R-PP	WIRED BOARD ASSEMBLY - RH
㉕	1	ASS-200a-0410	24 VDC POWER SUPPLY ASSEMBLY
㉖	1	SAS-200-0454	FAN ASSEMBLY
㉗	1	ASS-200-0460	PROXIMITY SENSOR CABLE ASSEMBLY
㉘	1	ASS-200-0494	UNWIND BRAKE & ULTRASONIC SENSOR CABLES ASSEMBLY
㉙	1	C-PE-SE1039	ULTRASONIC, Q.D. SENSOR
㉚	1	C-PE-SE1019	ULTRASONIC, Q.D. SENSOR
㉛	1	ASS-200A-0302	UNWIND FESTOON SLIDE ROLLER ASSEMBLY for 360a POWERED UNWIND
○	1	PE-C01020	POWER CORD
○	1	PM-LB1052	CTM LOGO LABEL for 360a APPLICATORS
㉜	1	MP-200a-0322	UNWIND BRAKE SPACER PLATE
㉝	3	MP-200a-0323	UNWIND BRAKE SUPPORT RIB
㉞	1	ASS-200-0149	PIVOT MICRO-ADJUST ASSEMBLY
㉟	1	ASS-200A-0126	MAPLE DISPLAY UNIT ASSEMBLY FOR 360A APPLICATOR
㊱	1	ASS-200-0138	DISPLAY MOUNT ASSEMBLY

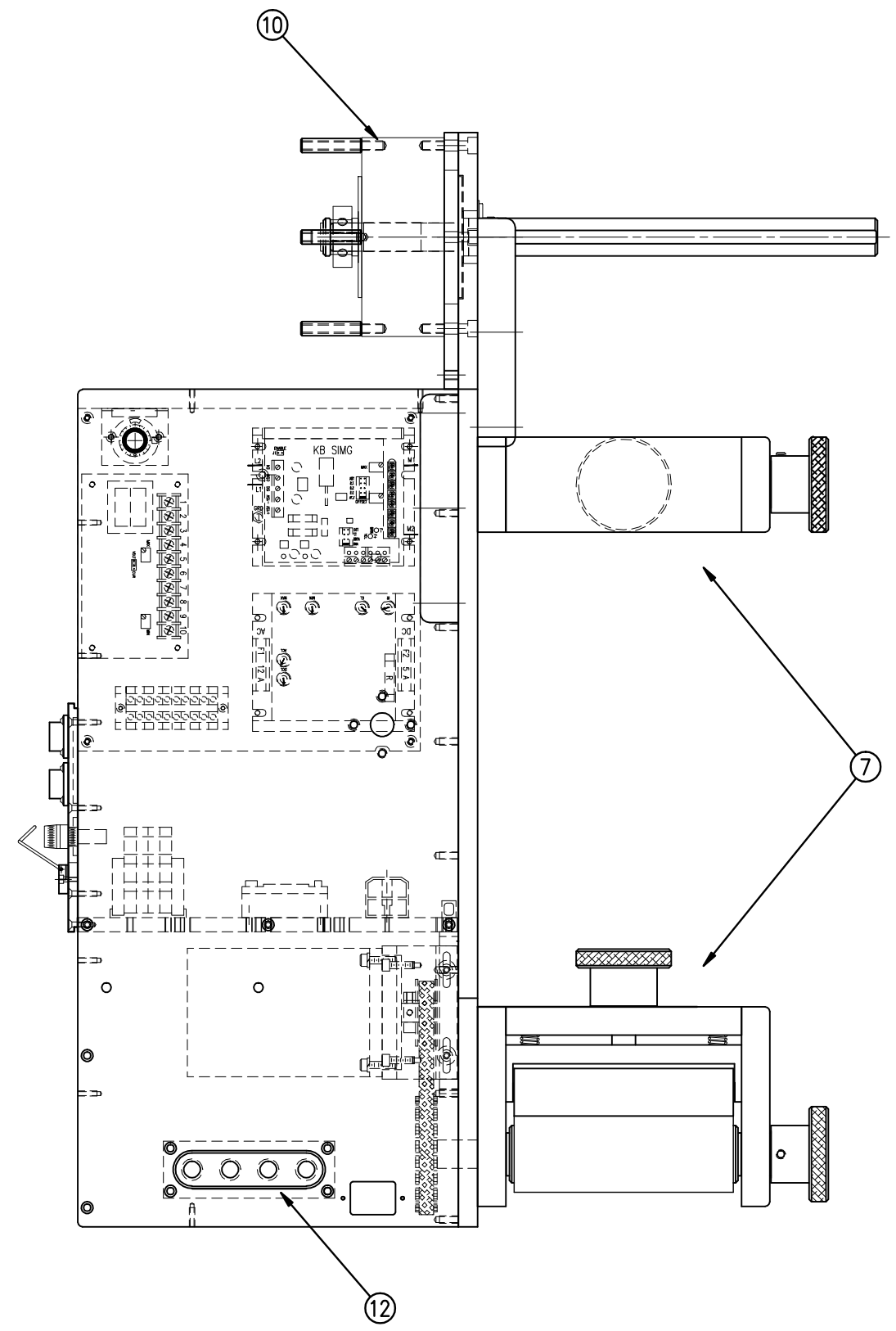
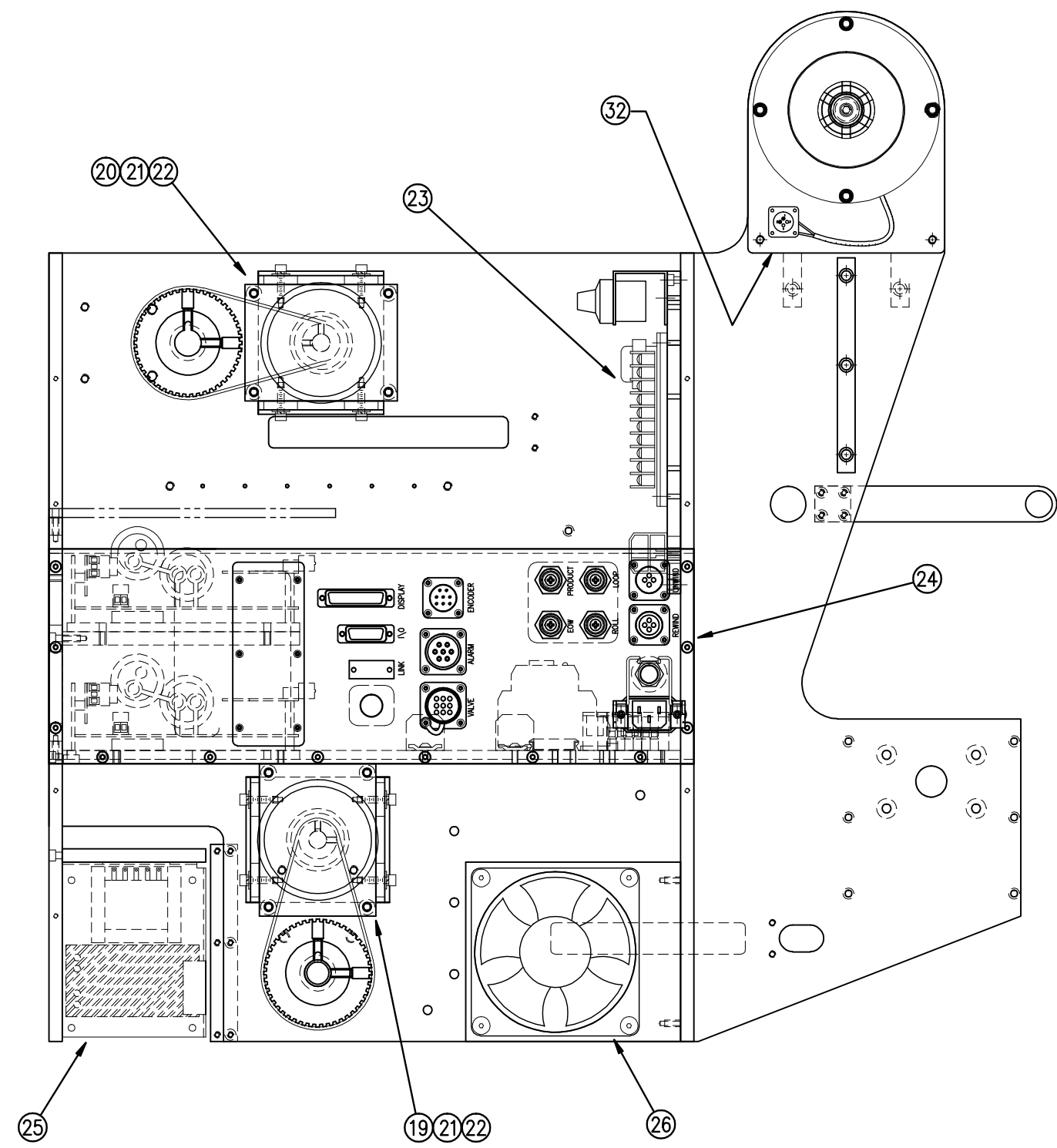


THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

REV. DATE: 10/19/17  
REV. BY: TDR  
REV. DATE: 10-14-08  
REV. BY: E. SANOR

Scale: 1=8  
PART: RIGHT HAND CORE UNIT ASSEMBLY: SHEET 1  
Dept. Code: 70  
F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0155R-PPs1

TITLE: 360a SERIES POWERED UNWIND APPLICATOR  
REV. DESCRIPTION: 5 UPDATED GUARD



NOTE: IN THESE VIEWS, POWERED REWIND SLIDE ROLLER & UNWIND FESTOON ROLLER ASSEMBLIES AS WELL AS STAINLESS COVERS AND GUARD ARE NOT SHOWN.

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.		Dept. Code	70
TITLE: 360a SERIES POWERED UNWIND APPLICATOR		PART: RIGHT HAND CORE UNIT ASSEMBLY: SHEET 2	
REV. 1	REV. DESCRIPTION UPDATED BRAKE SPACER DIAMETER	REV. BY: TDR	DATE: 10-14-08
		SCALE: 1=4	DRAWN BY: E. SANOR
		REV. DATE: 10/17/17	FILE: F:\Engineering\Standard Parts\System Components\200a\ASS-200a-0155R-PPs2

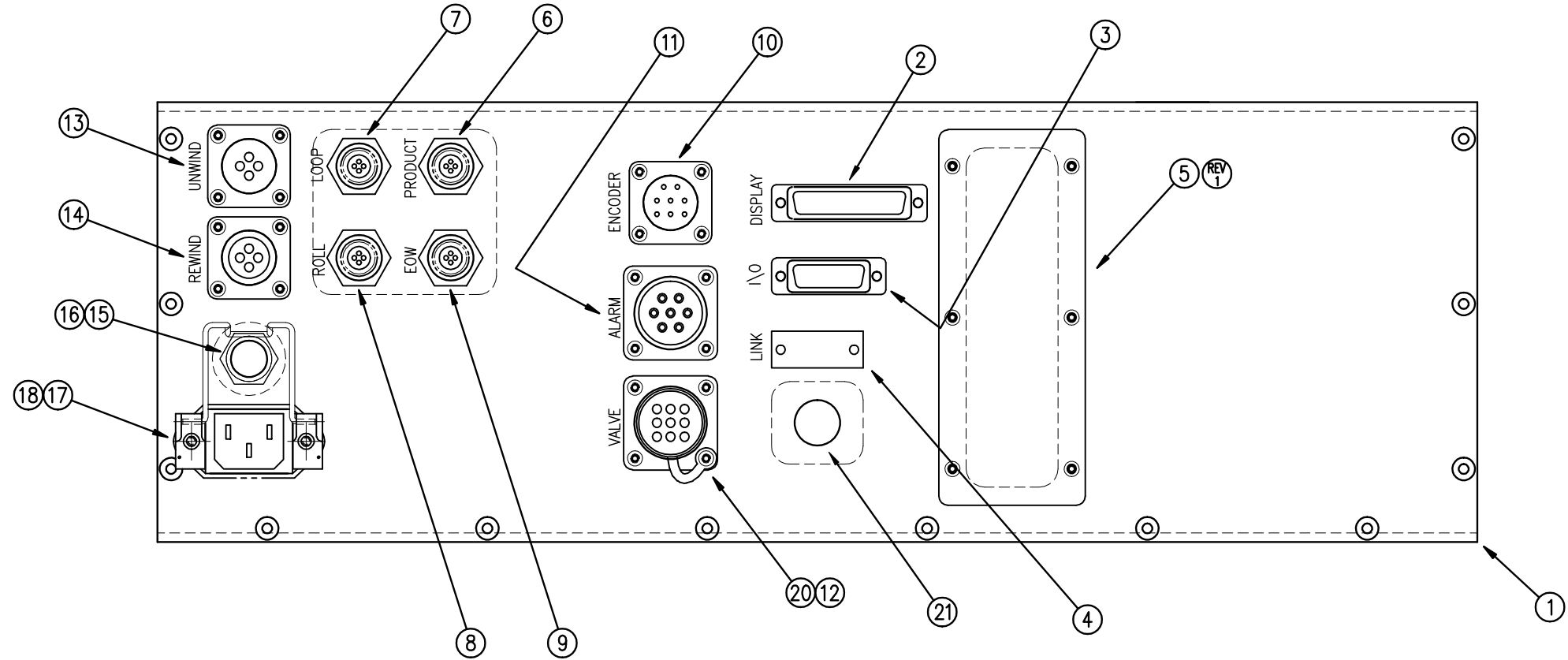
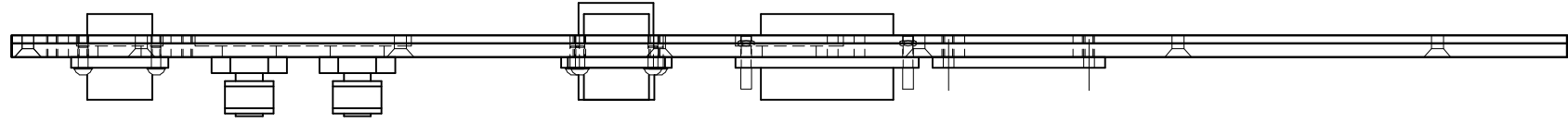
BILL OF MATERIAL

ASS-200a-0123aL-PP

ASS-200a-0123aL-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	-	MP-200a-0305L	CONNECTOR PLATE - LH
②	1	ASS-200a-0416	DISPLAY WIRE HARNESS ASSEMBLY
③	1	ASS-200a-0490	POWERED UNWIND I/O WIRE HARNESS ASSEMBLY
④	1	MP-200-0293	LINK PORT BLANK
⑤	1	MP-200a-0307	COM PORT ACCESS PLATE
⑥	1	* MP-CON1019	PRODUCT DETECT CONN. HARN. ASS'Y.
⑦	1	* PE-CON1025	HARNESS ASSEMBLY
⑧	1	* PE-CON1025	HARNESS ASSEMBLY
⑨	1	* MP-CON1025	WEB BREAK CONNECTOR HARNESS ASSY.
⑩	1	ASS-200a-0418	ENCODER WIRE HARNESS ASSEMBLY
⑪	1	ASS-200a-0481	ALARM WIRE HARNESS ASSEMBLY
⑫	1	PE-200-0415	VALVE WIRE HARNESS ASSEMBLY
⑬	1	ASS-200a-0491	UNWIND CONNECTOR HARNESS ASSEMBLY
⑭	1	ASS-200a-0492	REWIND CONNECTOR HARNESS ASSEMBLY
⑮	1	PE-FU5005	FUSE HOLDER
⑯	1	PE-FU2072	FUSE
⑰	1	PE-F11012	POWER RECEPTACLE/ FILTER
⑱	1	ASS-200-0148	POWER CORD CLIP ASSEMBLY
⑳	1	PE-CON7000	VALVE CAP
㉑	1	PE-EN9056	5/8" HOLE PLUG

CUT WHITE WIRE



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING ASSEMBLY

REV. DESCRIPTION: 2 CHANGED HARNESS FOR 7 AND 8 TO ADD SHIELDED WIRE

REV. DATE: 04/28/2015

REV. BY: JWS

Scale: 1=2

Date: 10-08-08

DRAWN BY: E. SANOR

PART: CONNECTOR PLATE ASSEMBLY - LH

Dept. Code 70

F:\Engineering\Standard Parts\Applcator\3600

200a\ASS-200a-0123aL-PP

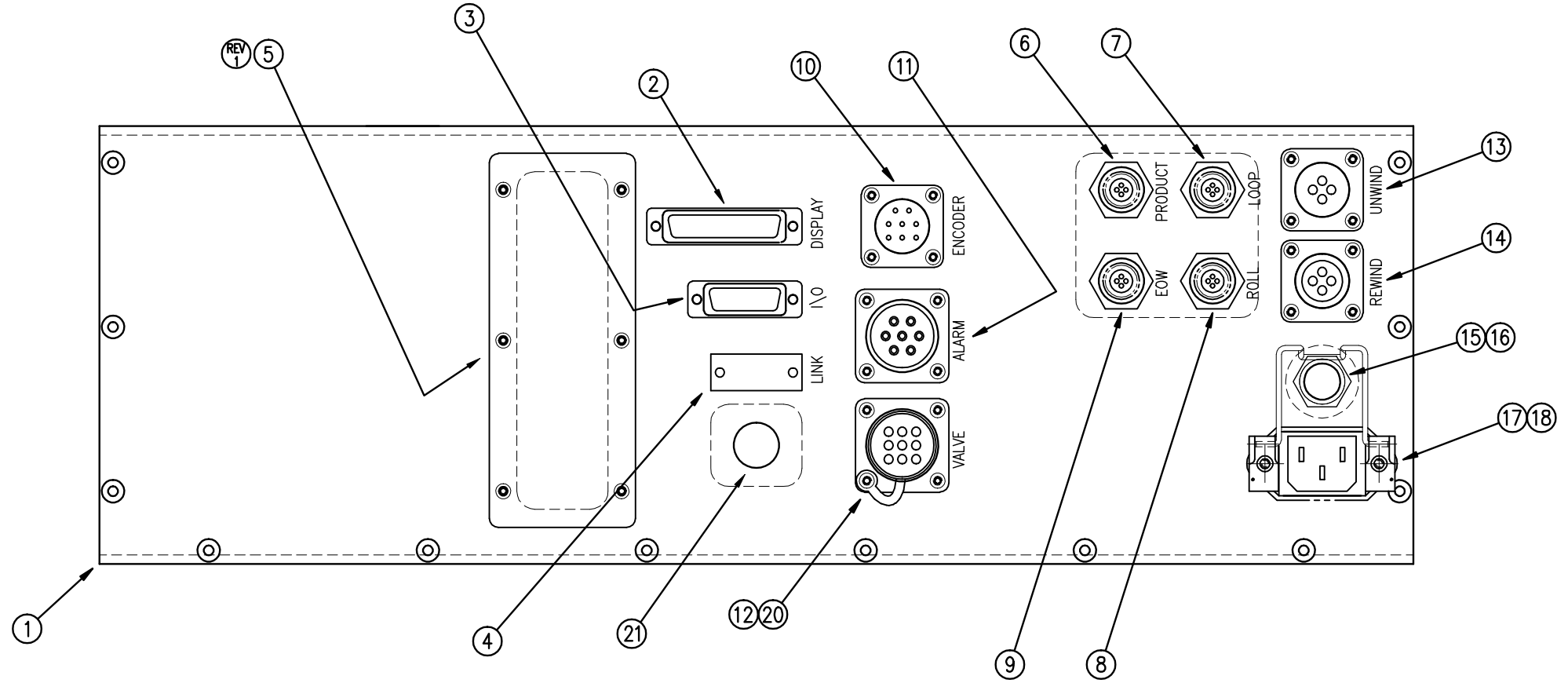
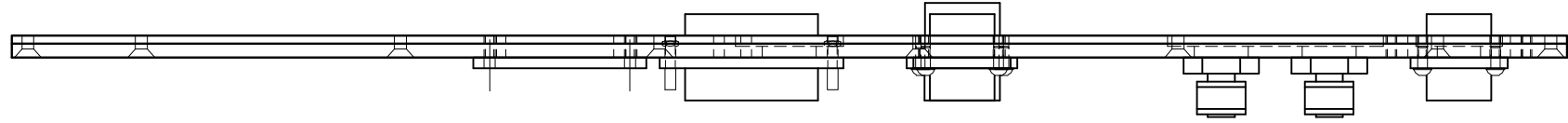
BILL OF MATERIAL

ASS-200a-0123aR-PP

ASS-200a-0123aR-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	-	MP-200a-0305R	CONNECTOR PLATE - RH
②	1	ASS-200a-0416	DISPLAY WIRE HARNESS ASSEMBLY
③	1	ASS-200a-0490	POWERED UNWIND I/O WIRE HARNESS ASSEMBLY
④	1	MP-200-0293	LINK PORT BLANK
⑤	1	MP-200a-0307	COM PORT ACCESS PLATE
⑥	1	* MP-CON1019	PRODUCT DETECT CONN. HARN. ASS'Y.
⑦	1	* PE-CON1025	HARNESS ASSEMBLY
⑧	1	* PE-CON1025	HARNESS ASSEMBLY
⑨	1	* MP-CON1025	WEB BREAK CONNECTOR HARNESS ASSY.
⑩	1	ASS-200a-0418	ENCODER WIRE HARNESS ASSEMBLY
⑪	1	ASS-200a-0481	ALARM WIRE HARNESS ASSEMBLY
⑫	1	PE-200-0415	VALVE WIRE HARNESS ASSEMBLY
⑬	1	ASS-200a-0491	UNWIND CONNECTOR HARNESS ASSEMBLY
⑭	1	ASS-200a-0492	REWIND CONNECTOR HARNESS ASSEMBLY
⑮	1	PE-FU5005	FUSE HOLDER
⑯	1	PE-FU2072	FUSE
⑰	1	PE-F11012	POWER RECEPTACLE/ FILTER
⑱	1	ASS-200-0148	POWER CORD CLIP ASSEMBLY
⑳	1	PE-CON7000	VALVE CAP
㉑	1	PE-EN9056	5/8" HOLE PLUG

CUT WHITE WIRE



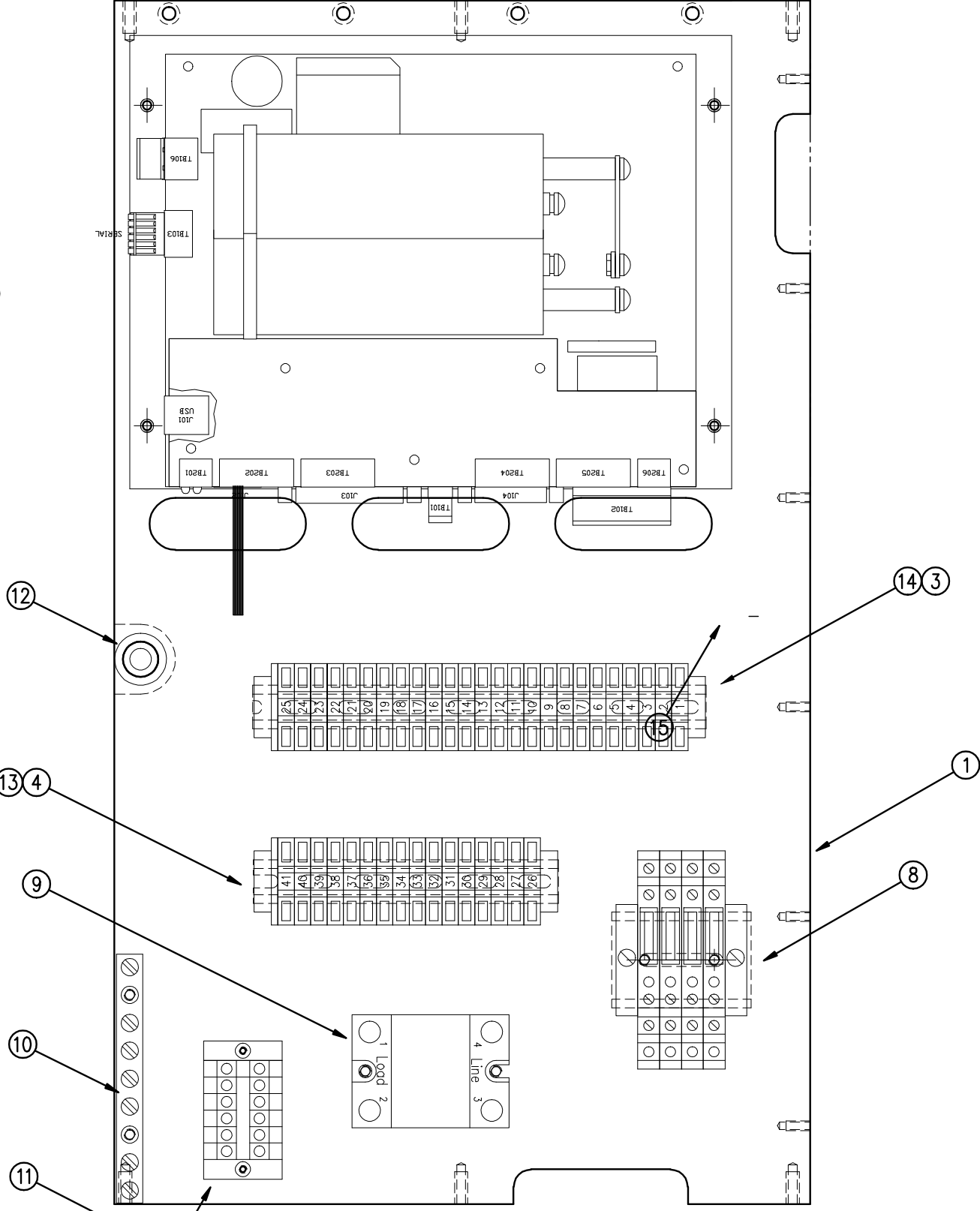
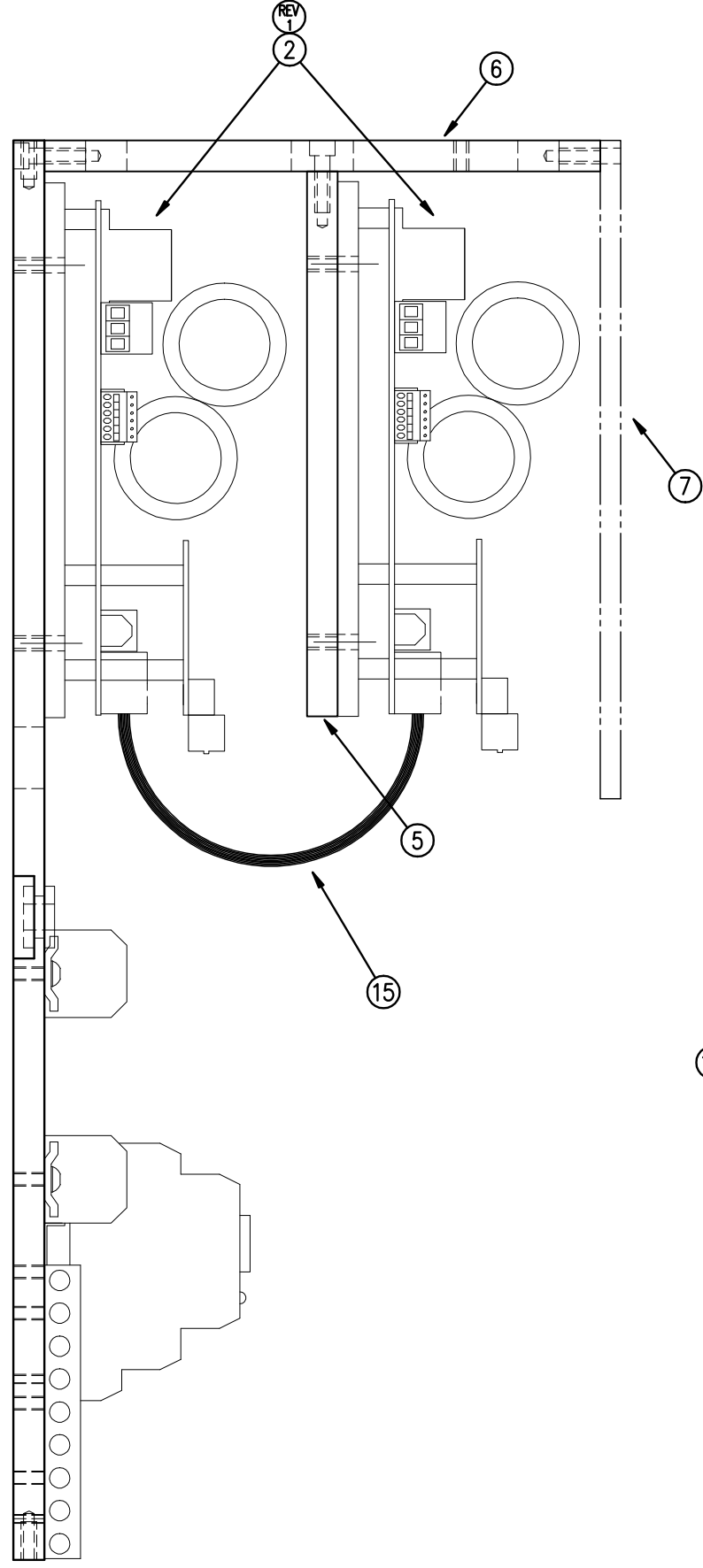
THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING ASSEMBLY  
 REV. DATE: 04/28/2015  
 REV. BY: JWS  
 SCALE: 1=2  
 DATE: 10-08-08  
 DRAWN BY: E. SANOR  
 PART: CONNECTOR PLATE ASSEMBLY - RH  
 Dept. Code: 70  
 F:\Engineering\Standard Parts\Applcator\3600\200a\ASS-200a-0123aR-PP

BILL OF MATERIAL

ASS-200a-0123bL-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200a-0304L	ELECTRIC SHELF - LH
②	2	PE-DR1005	CONTROL DRIVE BOARD FOR 360A
③	1	ASS-200a-0466a	TB1 TERMINAL BLOCK ASSEMBLY
④	1	ASS-200a-0496	TB1 #S 26-41 TERMINAL BLOCK ASSEMBLY
⑤	1	MP-200a-0316	UPPER DRIVE ELECTRICAL PLATE
⑥	1	MP-200a-0317	DRIVE RISER PLATE
⑦	1	MP-200a-0318	DRIVE GUARD
⑧	1	ASS-200a-0495	VALVE RELAY ASSEMBLY
⑨	1	PE-RE1014	MCR RELAY
⑩	1	PE-PA1110	GROUND BAR
⑪	1	ASS-200A-0497	TB-2 TERMINAL ASSEMBLY
⑫	1	PE-C02019	GROMMET
⑬	1	CP-240-0202	4 5/8" TERMINAL BLOCK DIN RAIL
⑭	1	CP-200-0279	6 1/2" TERMINAL BLOCK DIN RAIL
⑮	1	ASS-200a-04101	ETHERNET DRIVE TO DRIVE COMM. CABLE



ASS-200a-0123bL-PP

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR  
 REV. 1  
 REV. DATE: 08/13/2010  
 REV. BY: ES  
 SCALE: 1=2  
 DATE: 10-10-08  
 DRAWN BY: E. SANOR  
 PART: ELECTRIC SHELF ASSEMBLY - LH  
 Dept. Code: 70  
 F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0123bL-PP

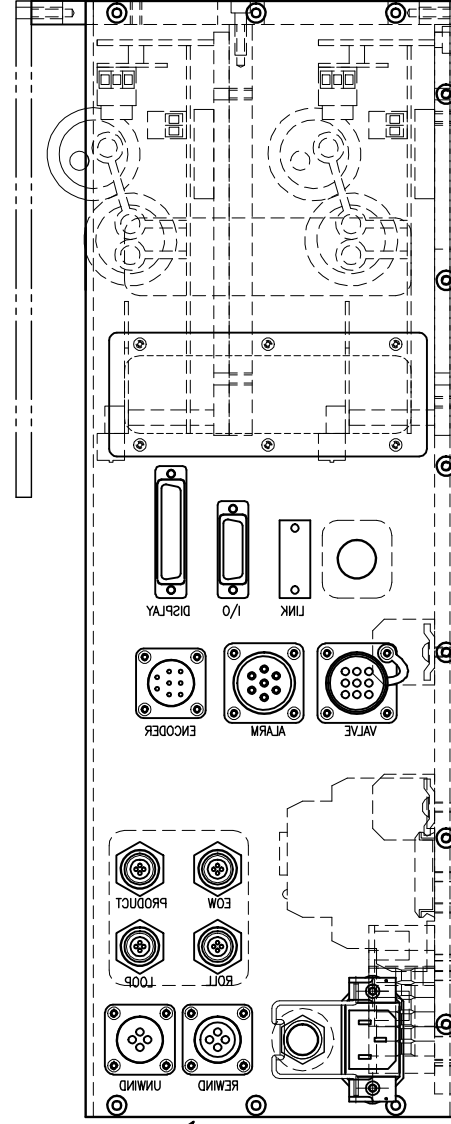
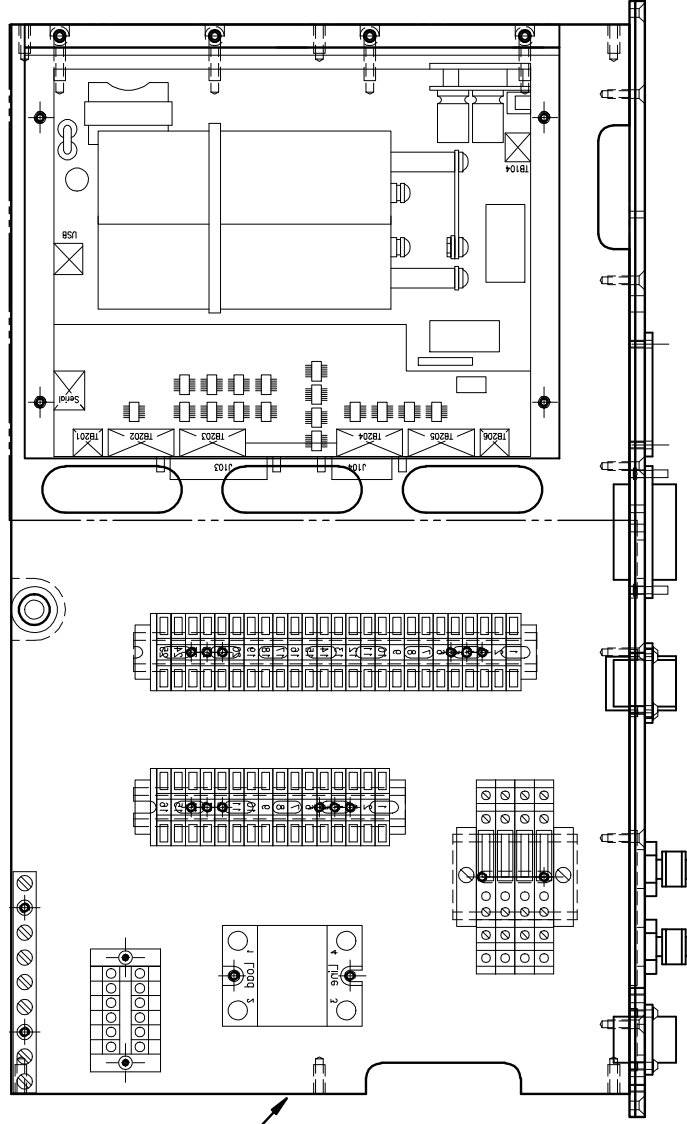
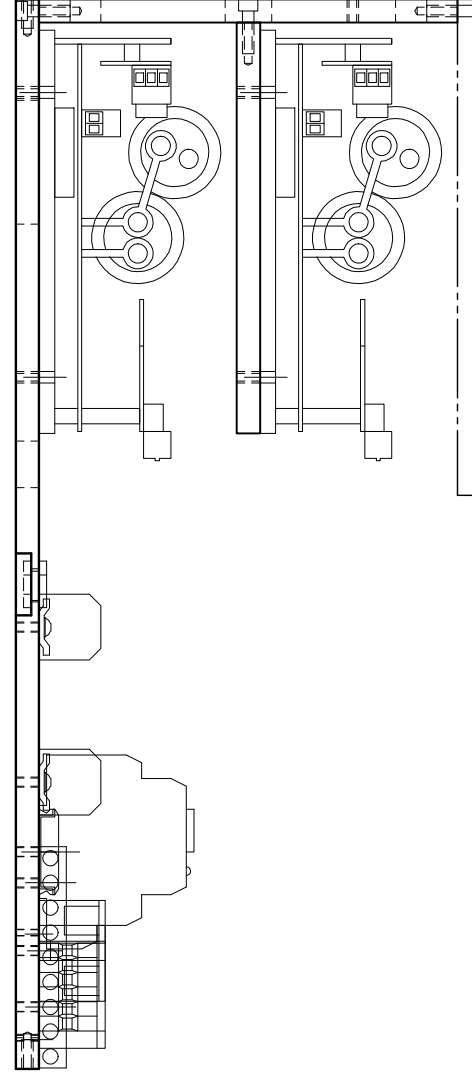


BILL OF MATERIAL

ASS-200a-0123L-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	ASS-200a-0123aL-PP	CONNECTOR PLATE ASSEMBLY - LH
②	1	ASS-200a-0123bL-PP	ELECTRIC SHELF ASSEMBLY - LH

ASS-200a-0123L-PP



②

①

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING ASSEMBLY PART: WIRED BOARD ASSEMBLY - LH

REV. 1 CORRECT PROGRAMMING PORT LOCATION NOW SHOWN

REV. DATE 06/23/2017

REV. BY: ES

Scale: 1=3 10-10-08

DATE: 10-10-08

DRAWN BY: E. SANOR

F:\Engineering\Standard Parts\Applcator\3600

200a\ASS-200a-0123L-PP

Dept. Code

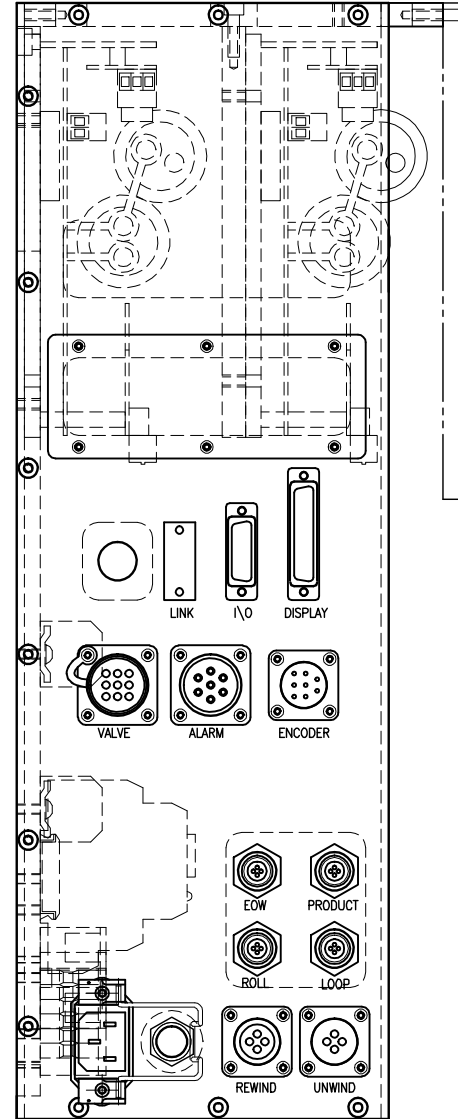
70



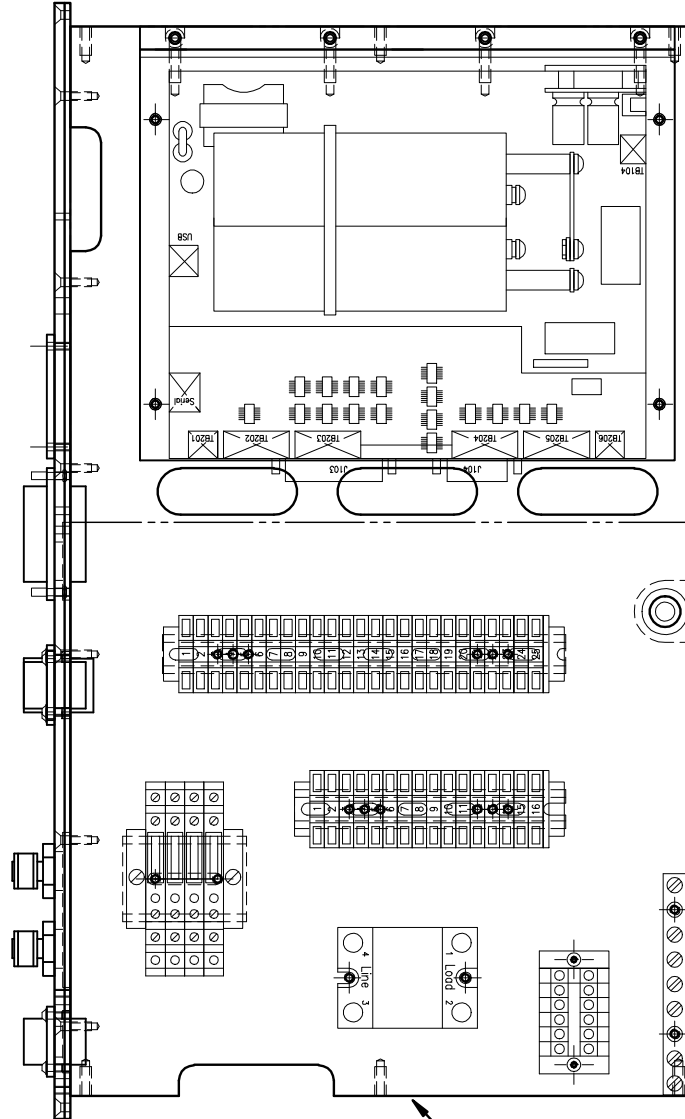
BILL OF MATERIAL

ASS-200a-0123R-PP

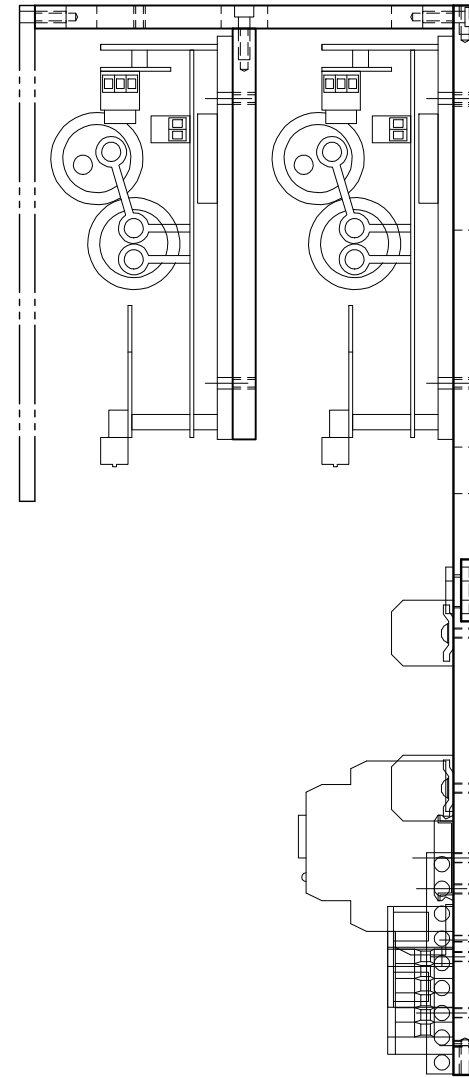
ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	ASS-200a-0123aR-PP	CONNECTOR PLATE ASSEMBLY - RH
②	1	ASS-200a-0123bR-PP	ELECTRIC SHELF ASSEMBLY - RH



①



②



ASS-200a-0123R-PP

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING ASSEMBLY

REV. 1 CORRECT PROGRAMMING PORT LOCATION NOW SHOWN

REV. DATE 06/23/2017

REV. BY: ES

Scale: 1=3 10-10-08

DATE: 10-10-08

DRAWN BY: E. SANOR

PART: WIRED BOARD ASSEMBLY - RH

F:\Engineering\Standard Parts\Applcator\3600

200a\ASS-200a-0123R-PP

Dept. Code

70

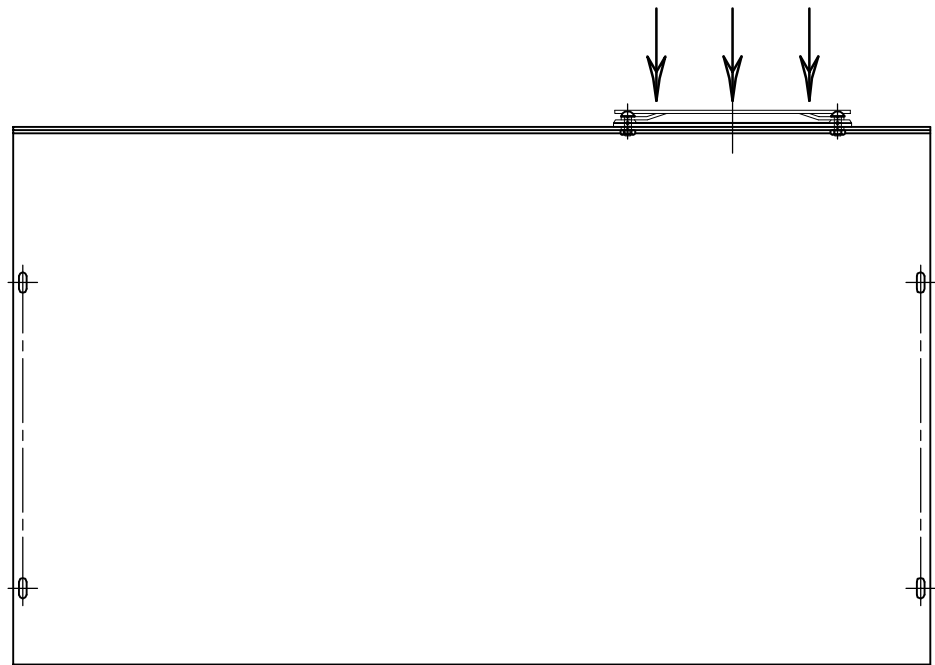
BILL OF MATERIAL

ASS-200a-0141L-PP

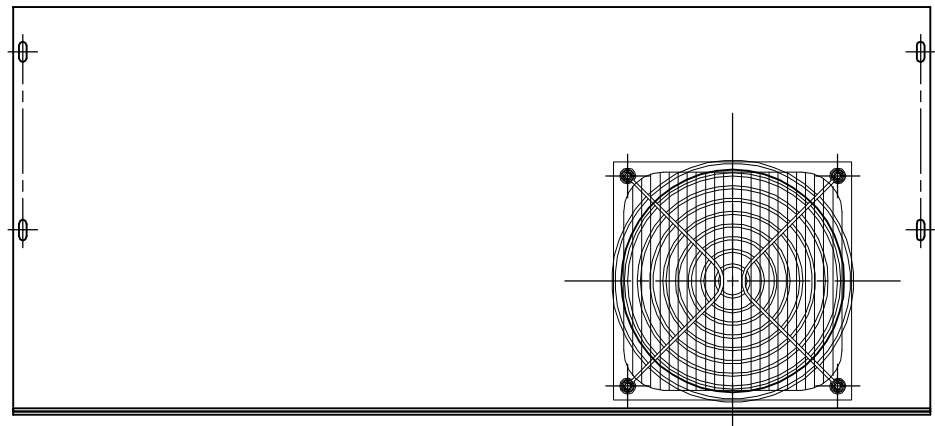
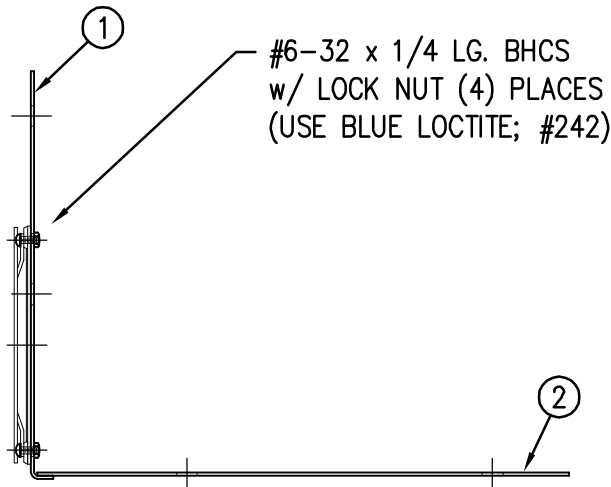
ASS-200a-0141L-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	PM-200a-0301L-1	2 PC. HOUSING COVER (BACK) - LH
①	1	PM-200a-0301-2	2 PC. HOUSING COVER (BOTTOM)
②	1	PE-FAN1080	FAN GUARD
③	1	PE-FAN1115	RF SCREEN
○	1	PM-FABH35405	SS BHCS #6-32 x 3/8" LG.
○	1	PM-FANU20075	#6-32 HEX NUT

AIR FLOW INTO CORE UNIT



NOTE: MODIFY GUARD FOR DROP DOWN SNORKLES



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING

PART: BOTTOM HOUSING COVER ASSEMBLY - LH

Dept. Code  
70

REV. 1	REV. DESCRIPTION CHG'D TO 2-PC DESIGN	REV. DATE 08/19/16	REV. BY: TK	Scale: 1=4	Date: 10-15-08	DRAWN BY: E. SANOR	F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0141L-PP
--------	--	-----------------------	----------------	---------------	-------------------	-----------------------	--

BILL OF MATERIAL

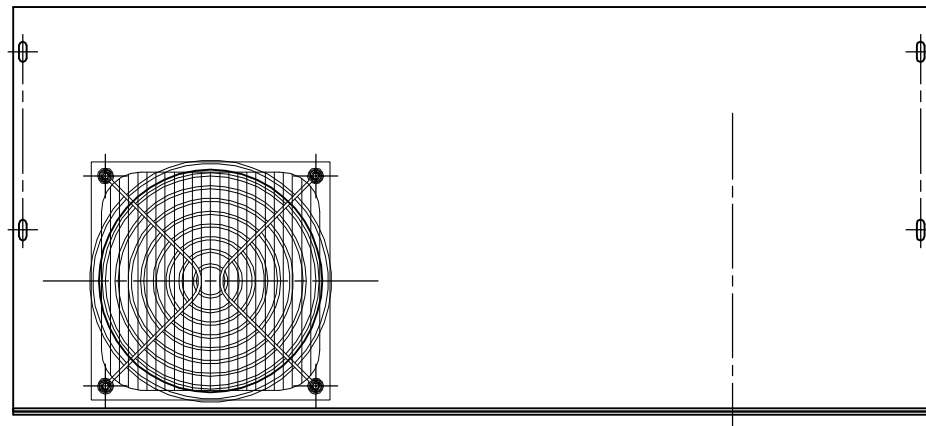
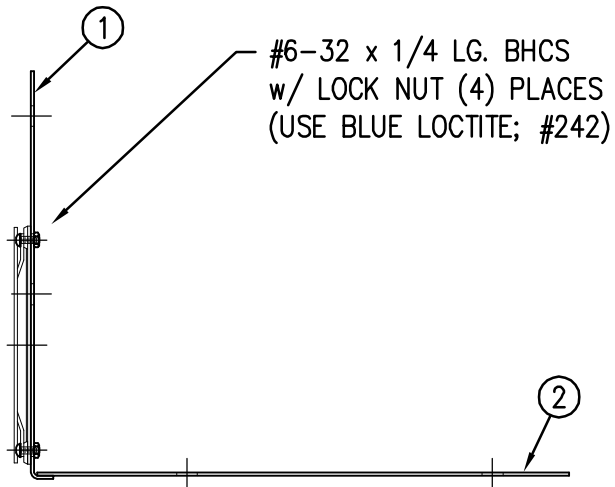
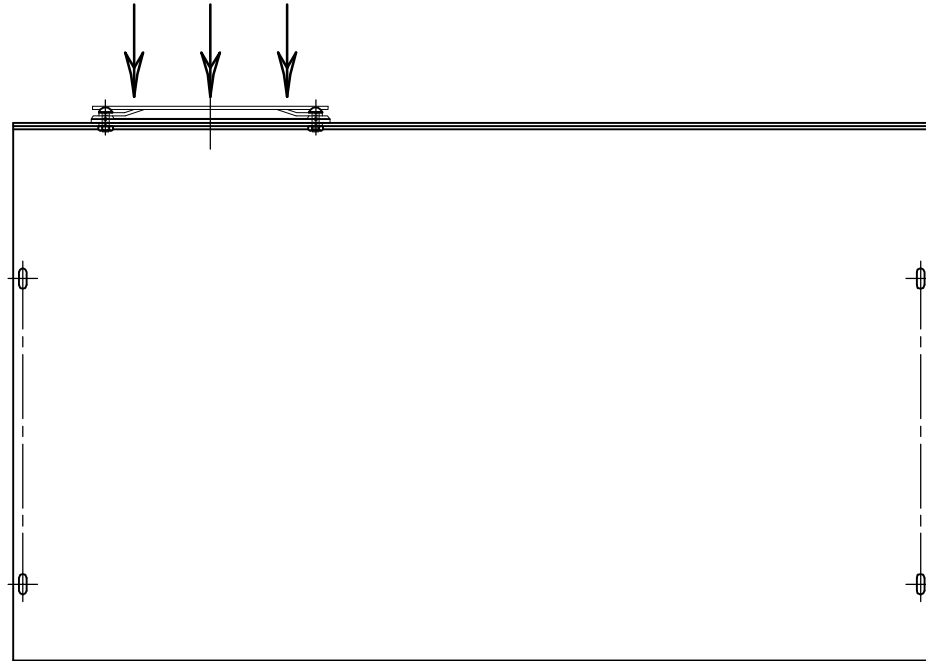
ASS-200a-0141R-PP

ASS-200a-0141R-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	PM-200a-0301R-1	2 PC. HOUSING COVER (BACK) - RH
①	1	PM-200a-0301-2	2 PC. HOUSING COVER (BOTTOM)
②	1	PE-FAN1080	FAN GUARD
③	1	PE-FAN1115	RF SCREEN
○	1	PM-FABH35405	SS BHCS #6-32 x 3/8" LG.
○	1	PM-FANU20075	#6-32 HEX NUT

NOTE: MODIFY GUARD FOR DROP DOWN SNORKLES

AIR FLOW INTO CORE UNIT



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING

PART: BOTTOM HOUSING COVER ASSEMBLY - RH

Dept. Code  
70

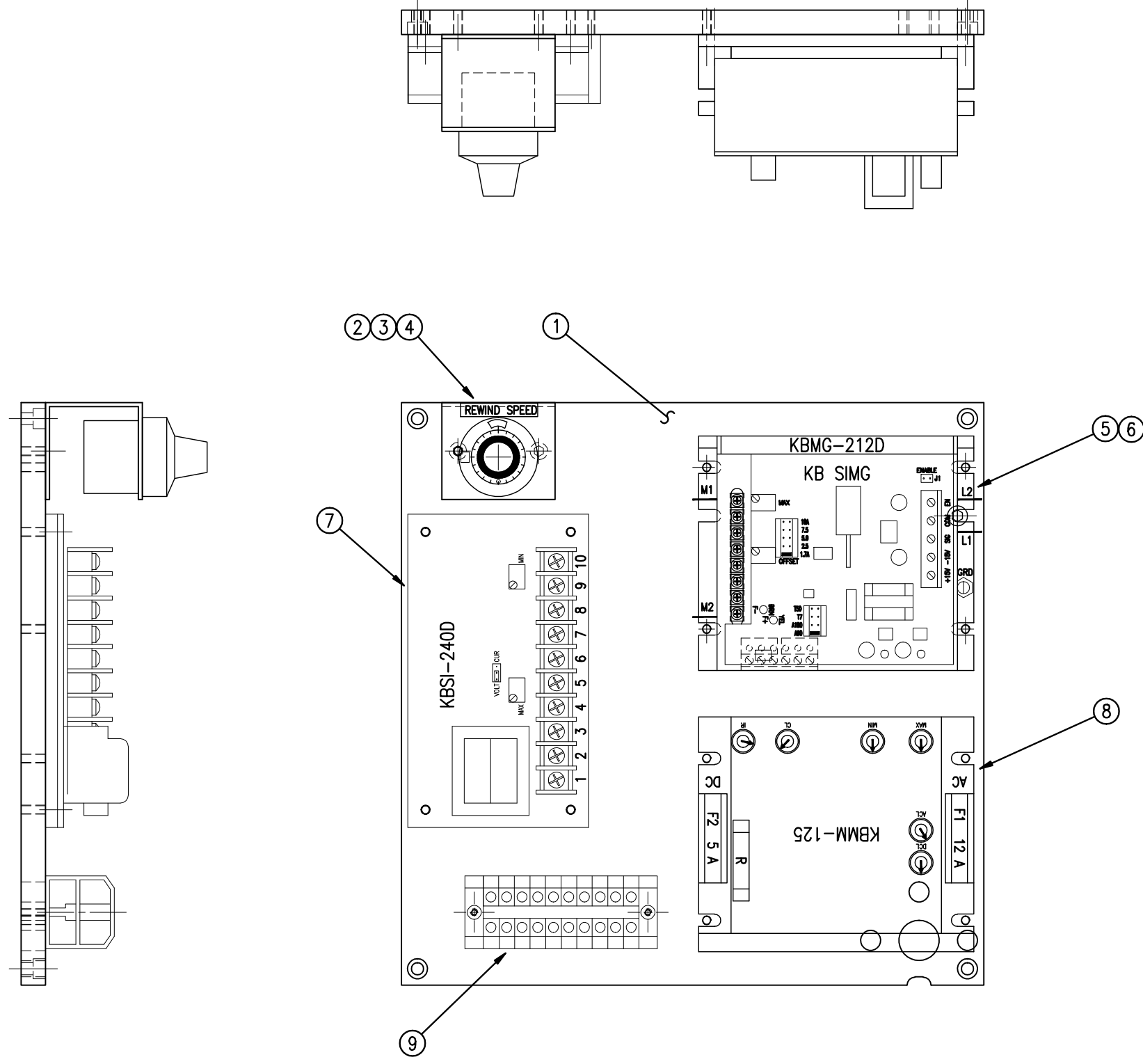
REV.	REV. DESCRIPTION	REV. DATE	REV. BY:	Scale:	Date:	DRAWN BY:	F:\Engineering\Standard Parts\System Components:
1	CHG'D TO 2-PC DESIGN	08/19/16	TK	1=4	10-15-08	E. SANOR	200a\ASS-200a-0141R-PP

BILL OF MATERIAL

ASS-200a-0159L-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200A-0315L	REWIND/UNWIND ELECTRICAL PLATE - LH
②	1	PE-P01030	5K POTENTIOMETER
③	1	PE-P02010	POTENTIOMETER DIAL
④	1	MP-P01000	POTENTIOMETER MOUNTING BRACKET
⑤	1	PE-SI1050	KB SIGNAL ISOLATOR BOARD
⑥	1	PE-MC1109	MOTOR DRIVE CONTROLLER
⑦	1	PE-SI1055	KBSI240D SIGNAL ISOLATOR BOARD
⑧	1	PE-MC1110-1/8	MOTOR DRIVE WITH 1/8 RESISTOR
⑨	1	ASS-200A-0498	TB3 UNWIND/REWIND TERMINAL BLOCK ASSY.

ASS-200a-0159L-PP



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR

REV. DESCRIPTION: 0 -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE: 10-13-08

REV. BY: ES

Scale: 1=2

Date: 10-13-08

DRAWN BY: E. SANOR

PART: UNWIND/REWIND ELECTRIC SHELF ASSEMBLY - LH

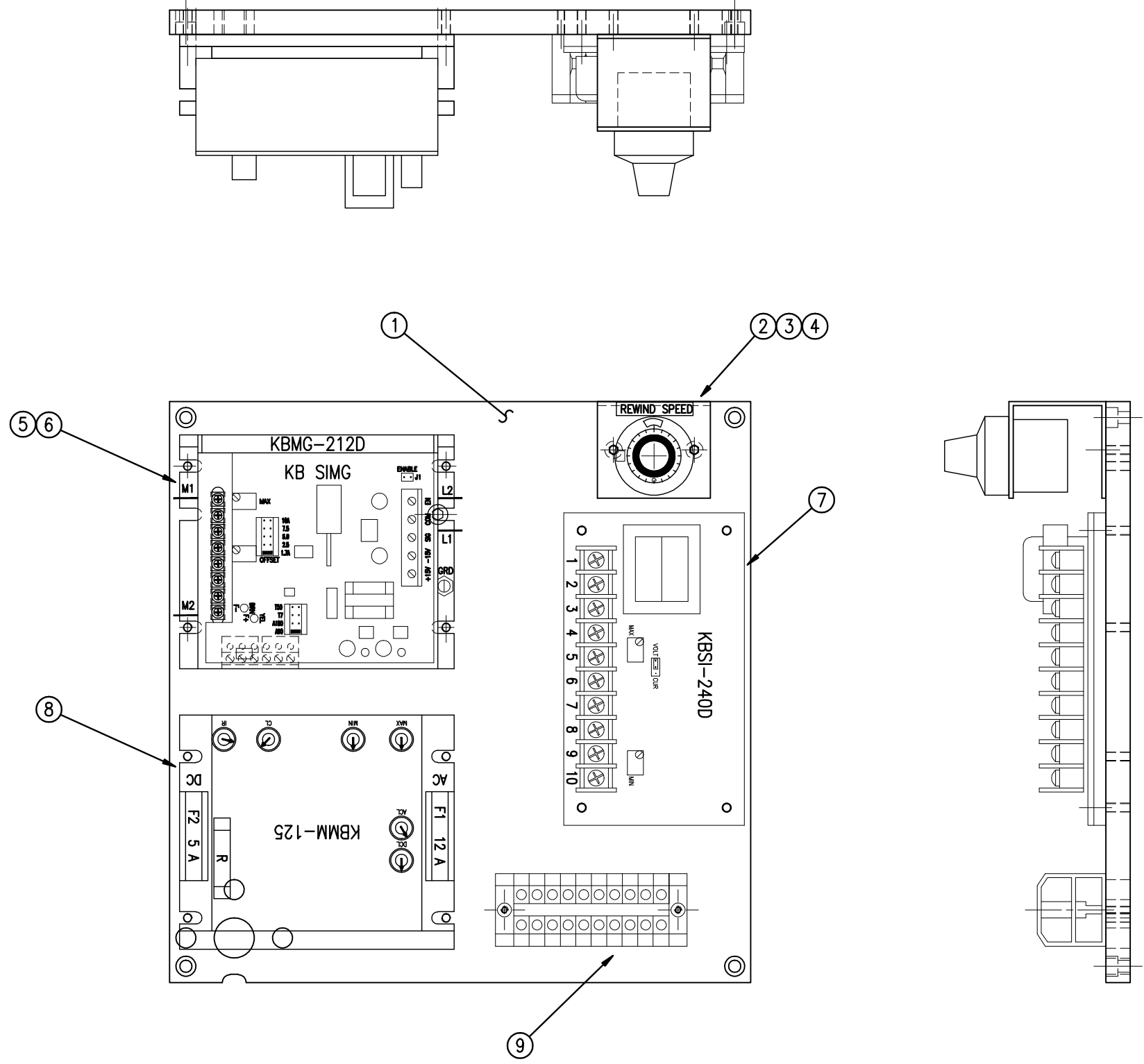
Dept. Code: 70

F:\Engineering\System Components\200a\ASS-200a-0159L-PP

BILL OF MATERIAL

ASS-200a-0159R-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200A-0315R	REWIND/UNWIND ELECTRICAL PLATE - RH
②	1	PE-P01030	5K POTENTIOMETER
③	1	PE-P02010	POTENTIOMETER DIAL
④	1	MP-P01000	POTENTIOMETER MOUNTING BRACKET
⑤	1	PE-SI1050	KB SIGNAL ISOLATOR BOARD
⑥	1	PE-MC1109	MOTOR DRIVE CONTROLLER
⑦	1	PE-SI1055	KBSI240D SIGNAL ISOLATOR BOARD
⑧	1	PE-MC1110-1/8	MOTOR DRIVE WITH 1/8 RESISTOR
⑨	1	ASS-200A-0498	TB3 UNWIND/REWIND TERMINAL BLOCK ASSY.



ASS-200a-0159R-PP

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR

REV. DESCRIPTION: O -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE: 10-13-08

REV. BY: ES

Scale: 1=2

Date: 10-13-08

DRAWN BY: E. SANOR

PART: UNWIND/REWIND ELECTRIC SHELF ASSEMBLY - RH

F:\Engineering\System Components\200a\ASS-200a-0159R-PP

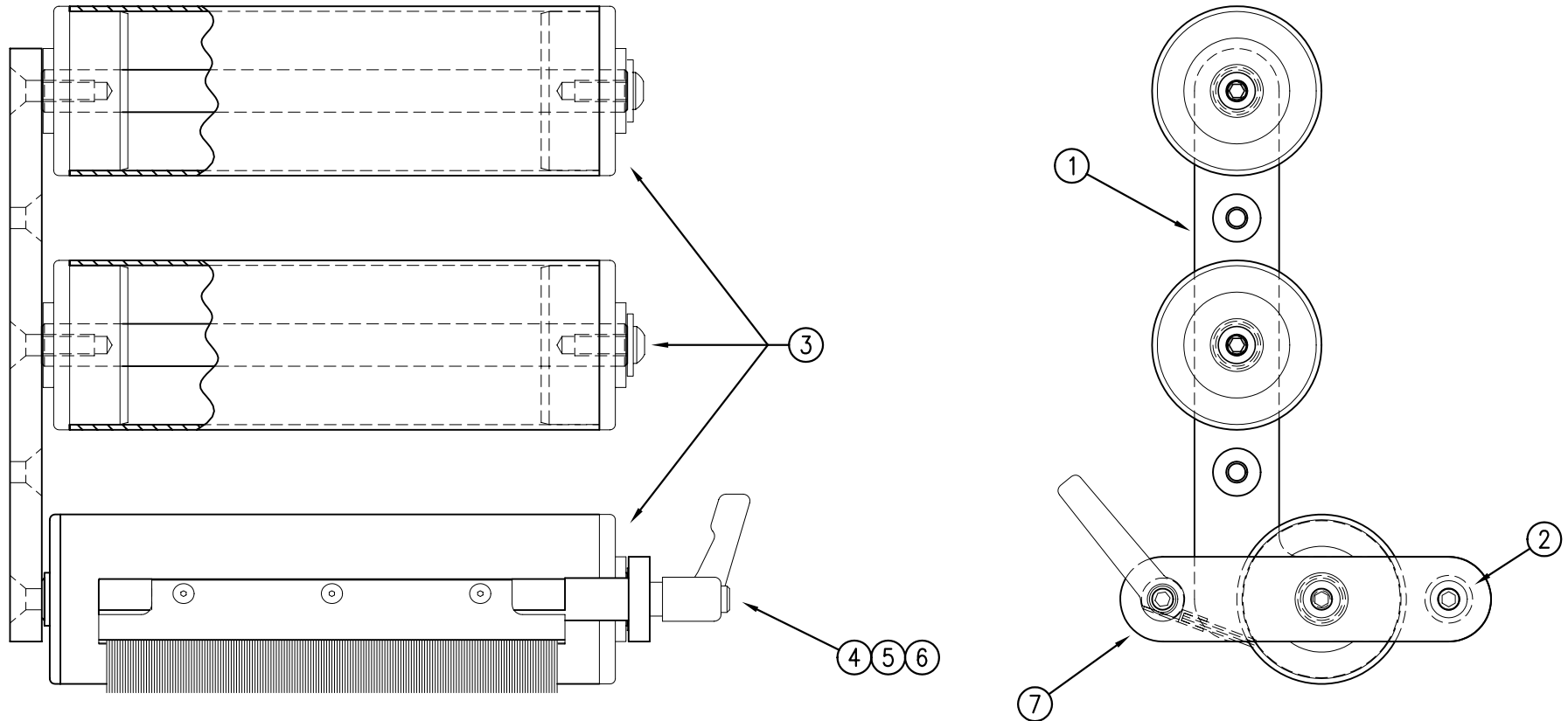
Dept. Code: 70

BILL OF MATERIAL

ASS-200a-0301L

ASS-200a-0301L

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200a-0308L	UNWIND FESTOON IDLER ROLLER MOUNT - LH
②	1	PM-200-0205	DANCER ROLLER SHAFT
③	1	ASS-200-0131AS	5" DANCER ROLLER ASSEMBLY with SHAFT - (ANTI-STATIC ROLLER INSERTS)
④	1	PM-LL0850	LOCK LEVER
⑤	1	ASS-215-0110	5" TENSION BRUSH ASSEMBLY
⑥	1	MP-200-0253	5/7.5/10 TENSION BRUSH MTG SHAFT
⑦	1	MP-200A-0319	UNWIND TENSION BRUSH MOUNT



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSINNG

PART: UNWIND FESTOON IDLER ROLLER ASSEMBLY - LH

Dept. Code  
70

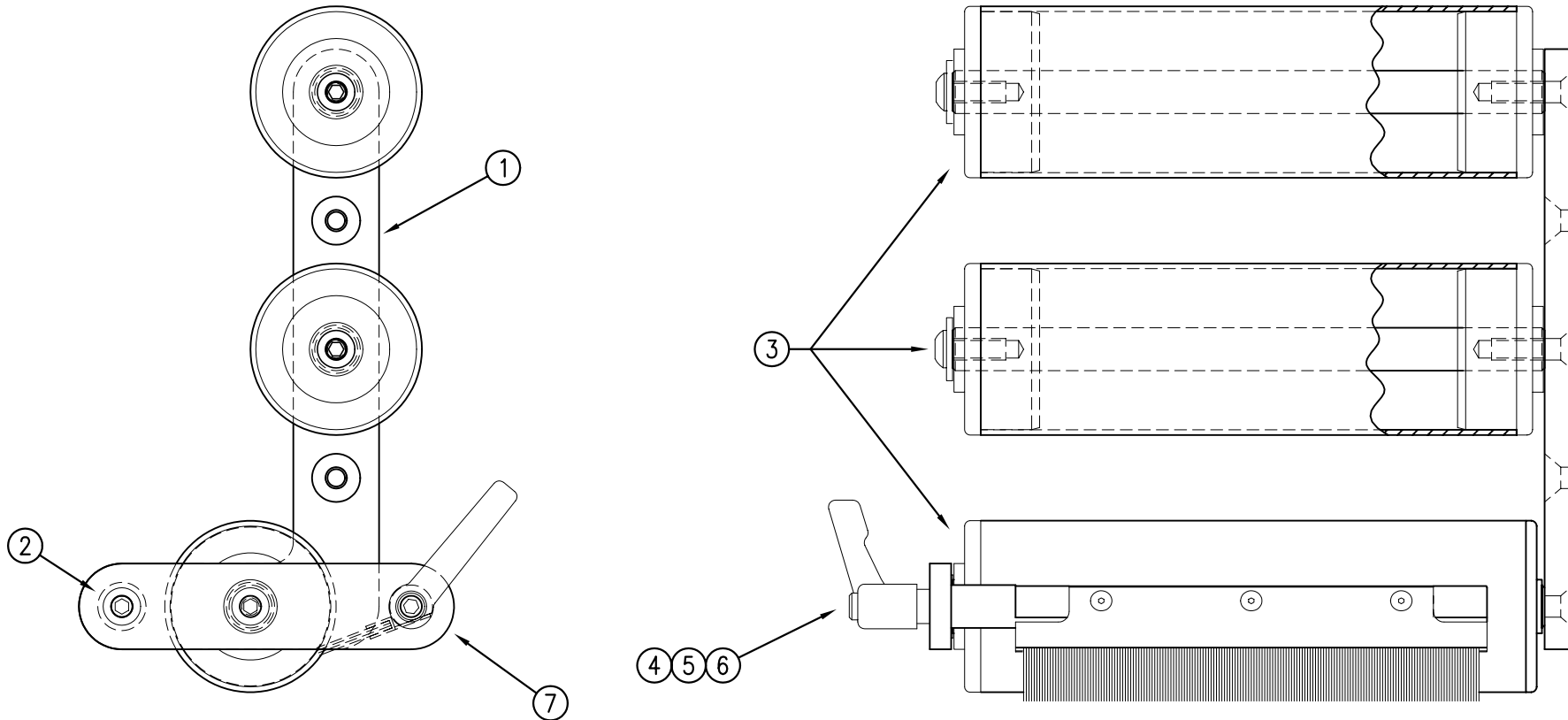
REV. 0	REV. DESCRIPTION -NEW DRAWING FOR 360a POWERED UNWIND-	REV. DATE 10-08-08	REV. BY: ES	Scale: 1=2	Date: 10-14-08	DRAWN BY: E. SANOR	F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0301L
--------	---	-----------------------	----------------	---------------	-------------------	-----------------------	---

BILL OF MATERIAL

ASS-200a-0301R

ASS-200a-0301R

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200a-0308L	UNWIND FESTOON IDLER ROLLER MOUNT - LH
②	1	PM-200-0205	DANCER ROLLER SHAFT
③	1	ASS-200-0131AS	5" DANCER ROLLER ASSEMBLY with SHAFT - (ANTI-STATIC ROLLER INSERTS)
④	1	PM-LL0850	LOCK LEVER
⑤	1	ASS-215-0110	5" TENSION BRUSH ASSEMBLY
⑥	1	MP-200-0253	5/7.5/10 TENSION BRUSH MTG SHAFT
⑦	1	MP-200A-0319	UNWIND TENSION BRUSH MOUNT



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSINNG

PART: UNWIND FESTOON IDLER ROLLER ASSEMBLY - RH

Dept. Code  
70

REV. 0 REV. DESCRIPTION -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE 10-08-08

REV. BY: ES

Scale: 1=2

Date: 10-14-08

DRAWN BY: E. SANOR

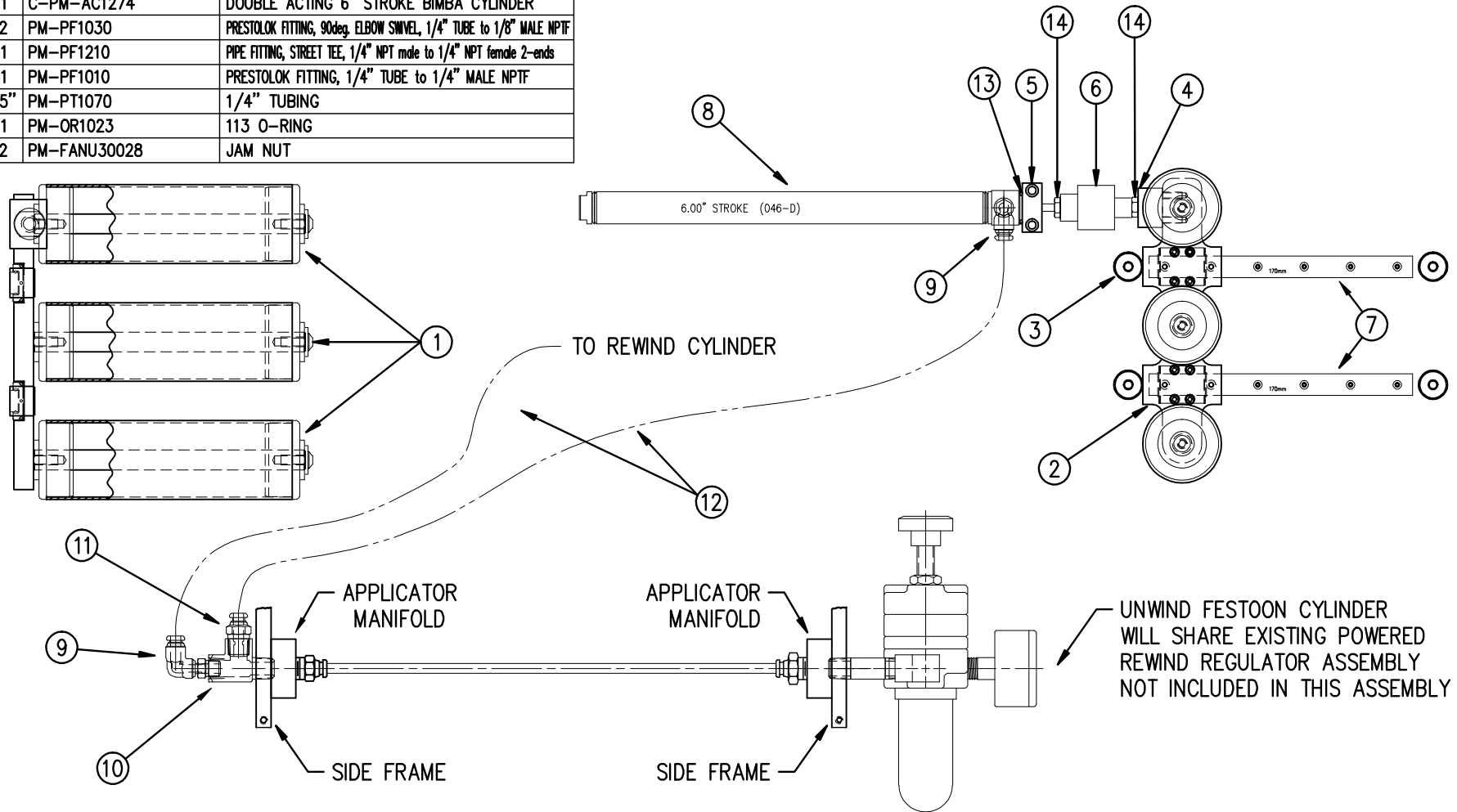
F:\Engineering\Standard Parts\System Components:  
200a\ASS-200a-0301R

BILL OF MATERIAL

ASS-200a-0302

ASS-200a-0302

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	3	ASS-200-0131AS	5" DANCER ROLLER ASSEMBLY W/SHAFT-(ANTI-STATIC)
②	1	MP-200a-0313	UNWIND ROLLER CARRIAGE PLATE
③	4	MP-200-3310	360 TENSION ARM STOP
④	1	MP-200-3389	CYLINDER ADAPTER BLOCK FOR PWR REWIND
⑤	1	MP-200A-0321	CYLINDER MOUNTING BLOCK FOR PWR UNWIND
⑥	1	PM-AC1263	AIR CYLINDER ALIGNMENT COUPLER 1/4" THREAD
⑦	2	PM-GD1000	THK Min. LM GUIDE, 170mm, (1) CARRIAGE
⑧	1	C-PM-AC1274	DOUBLE ACTING 6" STROKE BIMBA CYLINDER
⑨	2	PM-PF1030	PRESTOLOK FITTING, 90deg. ELBOW SWIVEL, 1/4" TUBE to 1/8" MALE NPTF
⑩	1	PM-PF1210	PIPE FITTING, STREET TEE, 1/4" NPT male to 1/4" NPT female 2-ends
⑪	1	PM-PF1010	PRESTOLOK FITTING, 1/4" TUBE to 1/4" MALE NPTF
⑫	25"	PM-PT1070	1/4" TUBING
⑬	1	PM-OR1023	113 O-RING
⑭	2	PM-FANU30028	JAM NUT



NOTE: TYPICAL RH INSTALLATION SHOWN FOR ILLUSTRATIVE PURPOSES, ALL SET-UPS WILL BASICALLY USE THE SAME COMPONENTS BUT PLUMBING MAY VARY

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING

PART: UNWIND FESTOON SLIDE ROLLER ASSEMBLY

Dept. Code  
70

REV. 3	REV. DESCRIPTION ADDED O-RING AND ACCOUNTED FOR JAM NUTS	REV. DATE 06/23/2017	REV. BY: ES	Scale: 1=4	Date: 10-15-08	DRAWN BY: E. SANOR	F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-0302
--------	---	-------------------------	----------------	---------------	-------------------	-----------------------	--

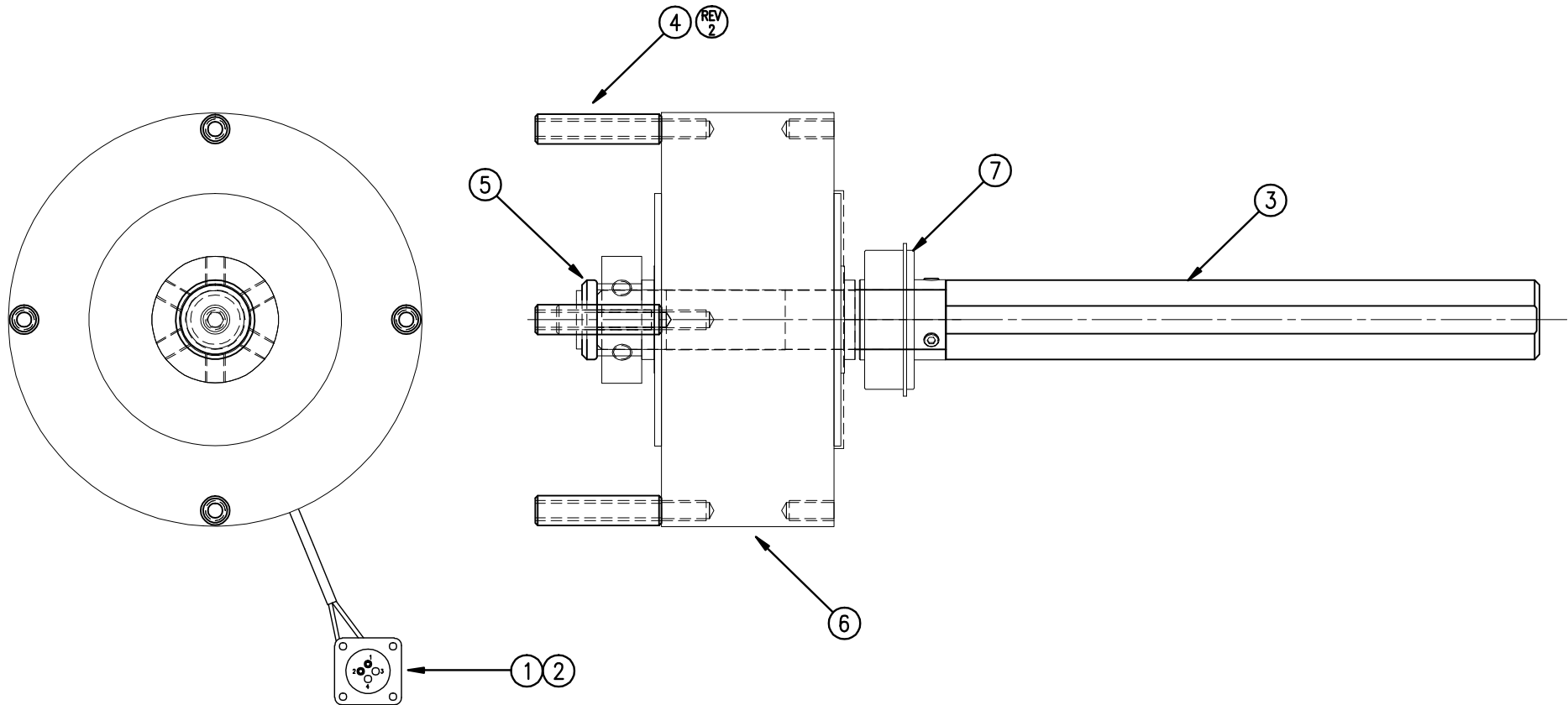


BILL OF MATERIAL

ASS-200a-0303

ASS-200a-0303

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	PE-CON2020	FEMALE (SOCKET) CONNECTOR
②	2	PE-CON7048	FEMALE PIN/ SOCKET (22 Ga.)
③	1	MP-200a-0314	5.0" UNWIND, BRAKE SHAFT
④	4	MP-200a-0320	BRAKE GUARD SPACER
⑤	1	MP-200-0229	REWIND SPRING RETAINER
⑥	1	PM-BRK1000	MAGNETIC PARTICLE BRAKE
⑦	1	PM-BE1210	3/4" BORE E.R. STYLE BEARING



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING

PART: 5.0" UNWIND, BRAKE ASSEMBLY

Dept. Code  
70

REV. 2 REV. DESCRIPTION  
BRAKE GUARD SPACERS WERE 1/2 DIA. NOW 3/8 DIA.

REV. DATE  
10/17/17

REV. BY:  
TDR

Scale:  
1=2

Date:  
10-14-08

DRAWN BY:  
E. SANOR

F:\Engineering\Standard Parts\System Components:  
200a\ASS-200a-0303

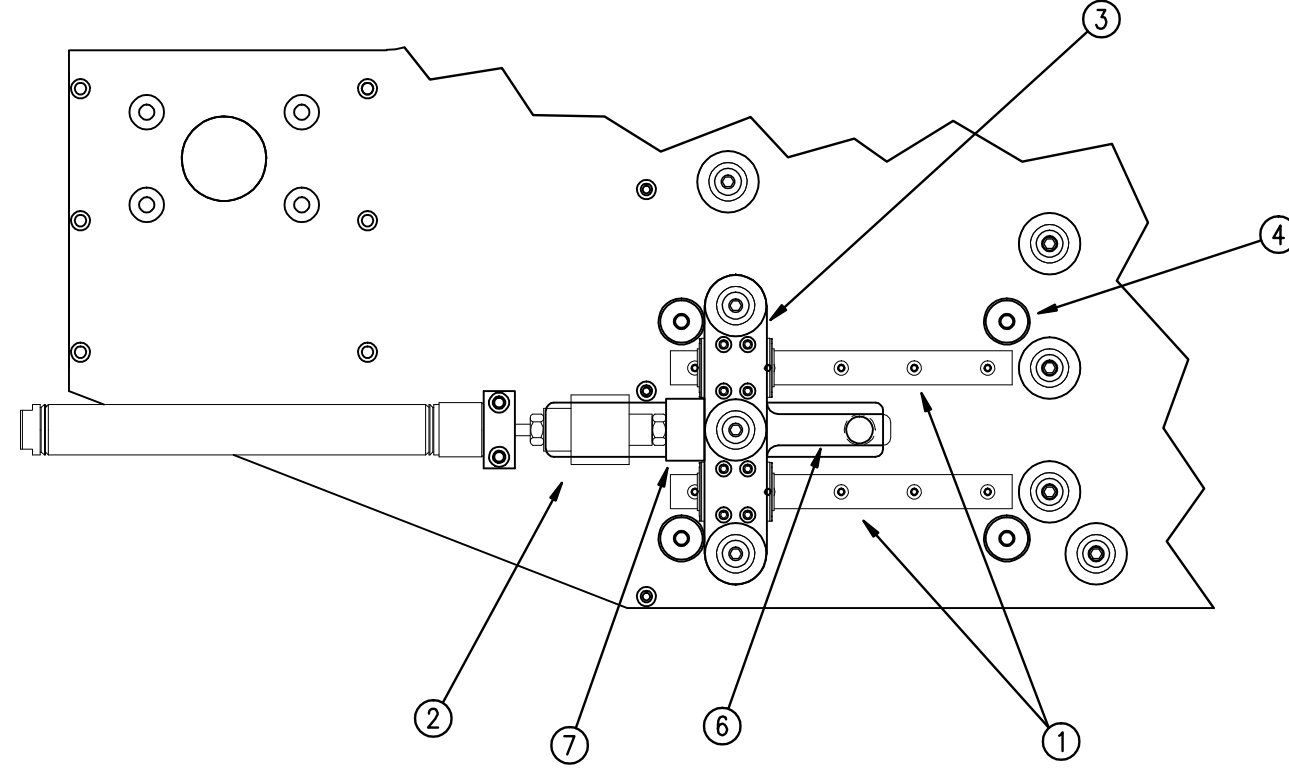
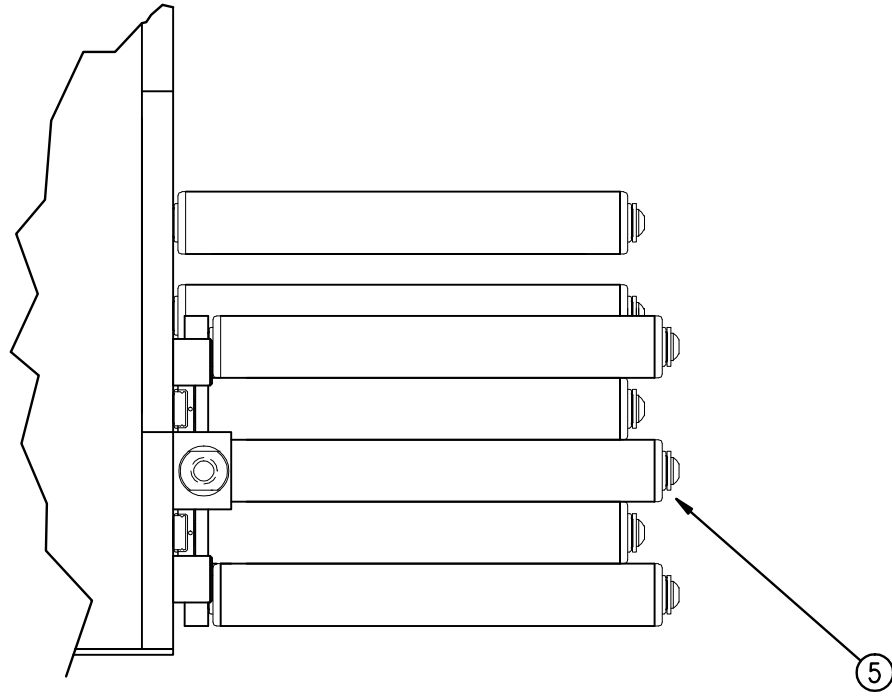
BILL OF MATERIAL

ASS-200-0304

ASS-200a-0304

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	2	PM-GD1040	THK Min. LM GUIDE, 140mm, (1) CARRIAGE
②	1	ASS-200-3168	CYLINDER MOUNTING ASSEMBLY
③	1	MP-200-3387	ROLLER CARRIAGE PLATE FOR PWR REWIND
④	4	MP-200-3310	360 TENSION ARM STOP
⑤	8	ASS-200-0150AS	1.00"Ø GUIDE ROLLER ASSEMBLY-(ANTI-STATIC)
⑥	1	PM-200-3388	POWERED REWIND CARRIAGE PROX. FINGER
⑦	1	MP-200-3389	CYLINDER ADAPTER BLOCK FOR PWR REWIND

THIS ASSEMBLY IS AMBIDEXTROUS  
-SHOWN MOUNTED ON A RH APPLICATOR-



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR

REV: 0 -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE: 10-13-08

REV. BY: ES

Scale: 1=3

Date: 10-15-08

DRAWN BY: E. SANOR

PART: POWERED REWIND SLIDE ROLLER ASSEMBLY

F:\Engineering\System Components: 200a\ASS-200a-0304

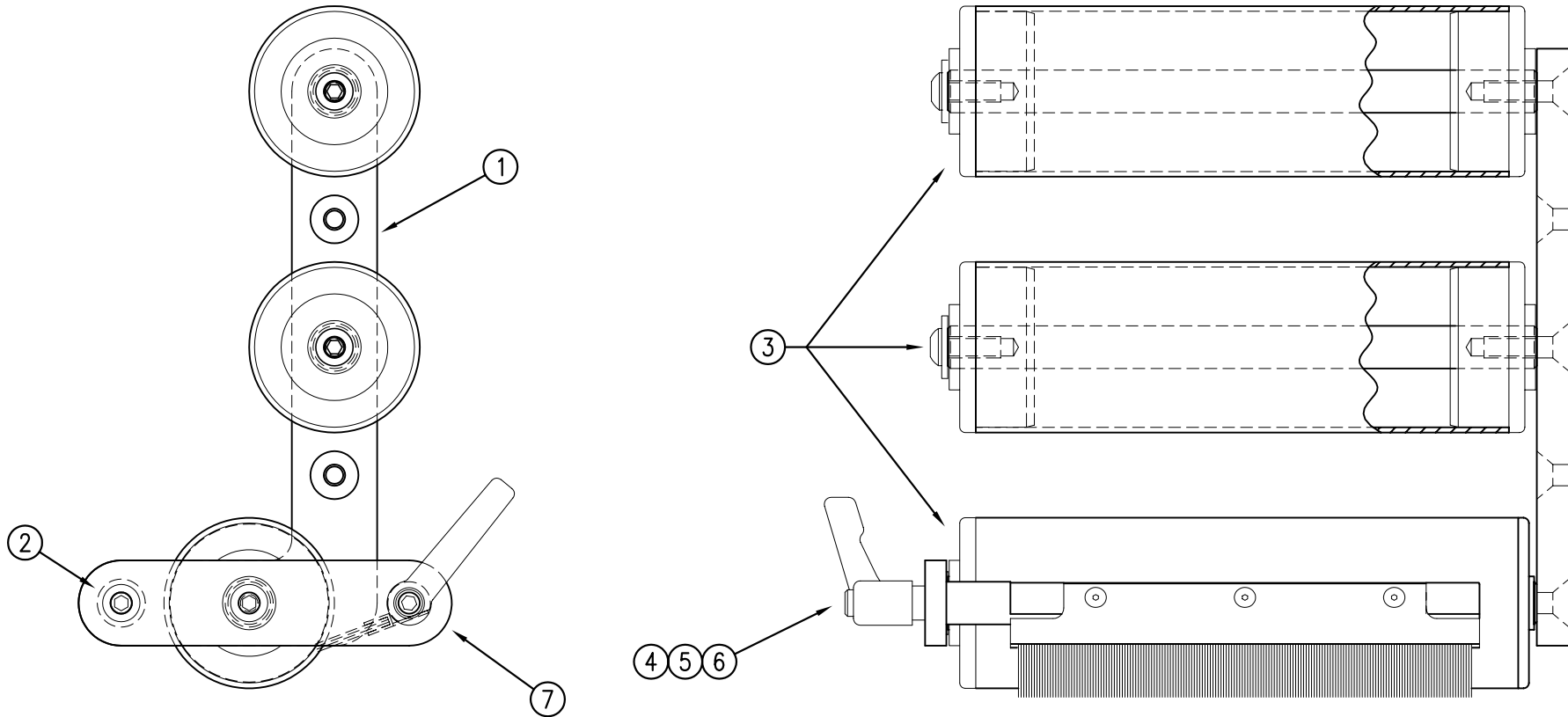
Dept. Code: 70

BILL OF MATERIAL

ASS-200a-2301R

ASS-200a-2301R

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200a-0308R	UNWIND FESTOON IDLER ROLLER MOUNT - LH
②	1	PM-200-0205	DANCER ROLLER SHAFT
③	3	ASS-200-2131AS	7.5" DANCER ROLLER ASSEMBLY with SHAFT - (ANTI-STATIC ROLLER INSERTS)
④	1	PM-LL0850	LOCK LEVER
⑤	1	ASS-215-2110	7.5" TENSION BRUSH ASSEMBLY
⑥	1	MP-200-2253	7.5 TENSION BRUSH MTG SHAFT
⑦	1	MP-200A-0319	UNWIND TENSION BRUSH MOUNT



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES 7.50" WIDE POWERED UNWIND APPLICATOR: HOUSING

PART: 7.50" WIDE UNWIND FESTOON IDLER ROLLER ASSEMBLY - RH

Dept. Code  
70

REV. 0 REV. DESCRIPTION  
-NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE  
10-08-08

REV. BY:  
ES

Scale:  
1=2

Date:  
07/14/11

DRAWN BY:  
Jeffery Mendenhall

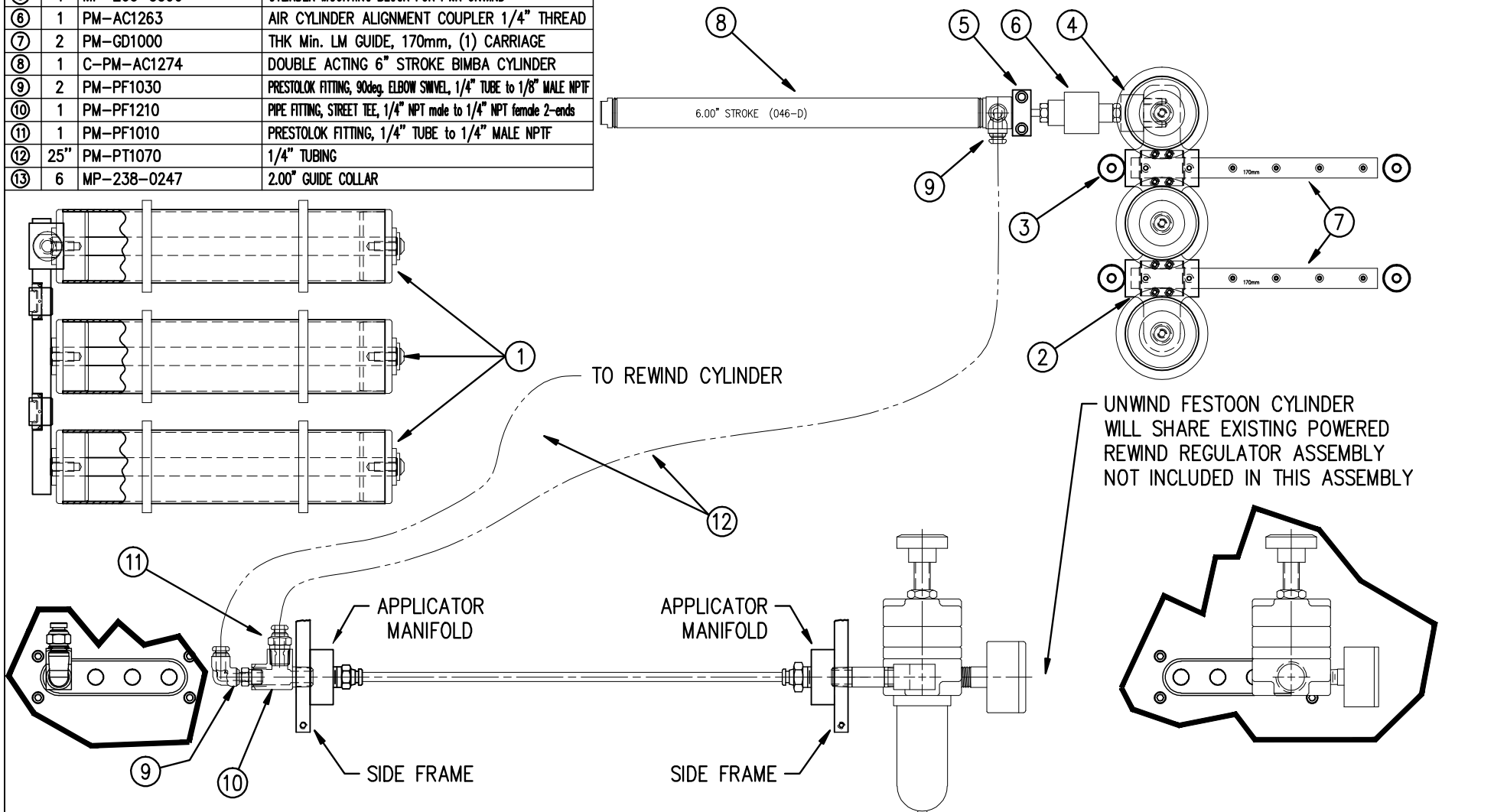
F:\Engineering\Standard Parts\System Components:  
200a\ASS-200a-2301R

BILL OF MATERIAL

ASS-200a-2302

ASS-200a-2302

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	3	ASS-200-2131AS	7.50" DANCER ROLLER ASSEMBLY W/SHAFT-(ANTI-STATIC)
②	1	MP-200a-0313	UNWIND ROLLER CARRIAGE PLATE
③	4	MP-200-3310	360 TENSION ARM STOP
④	1	MP-200-3389	CYLINDER ADAPTER BLOCK FOR PWR REWIND
⑤	1	MP-200-3390	CYLINDER MOUNTING BLOCK FOR PWR UNWIND
⑥	1	PM-AC1263	AIR CYLINDER ALIGNMENT COUPLER 1/4" THREAD
⑦	2	PM-GD1000	THK Min. LM GUIDE, 170mm, (1) CARRIAGE
⑧	1	C-PM-AC1274	DOUBLE ACTING 6" STROKE BIMBA CYLINDER
⑨	2	PM-PF1030	PRESTOLOK FITTING, 90deg. ELBOW SWIVEL, 1/4" TUBE to 1/8" MALE NPTF
⑩	1	PM-PF1210	PIPE FITTING, STREET TEE, 1/4" NPT male to 1/4" NPT female 2-ends
⑪	1	PM-PF1010	PRESTOLOK FITTING, 1/4" TUBE to 1/4" MALE NPTF
⑫	25"	PM-PT1070	1/4" TUBING
⑬	6	MP-238-0247	2.00" GUIDE COLLAR



NOTE: TYPICAL RH INSTALLATION SHOWN FOR ILLUSTRATIVE PURPOSES, ALL SET-UPS WILL BASICALLY USE THE SAME COMPONENTS BUT PLUMBING MAY VARY

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING PART: UNWIND FESTOON SLIDE ROLLER ASSEMBLY, 7.50" WIDE Dept. Code 70

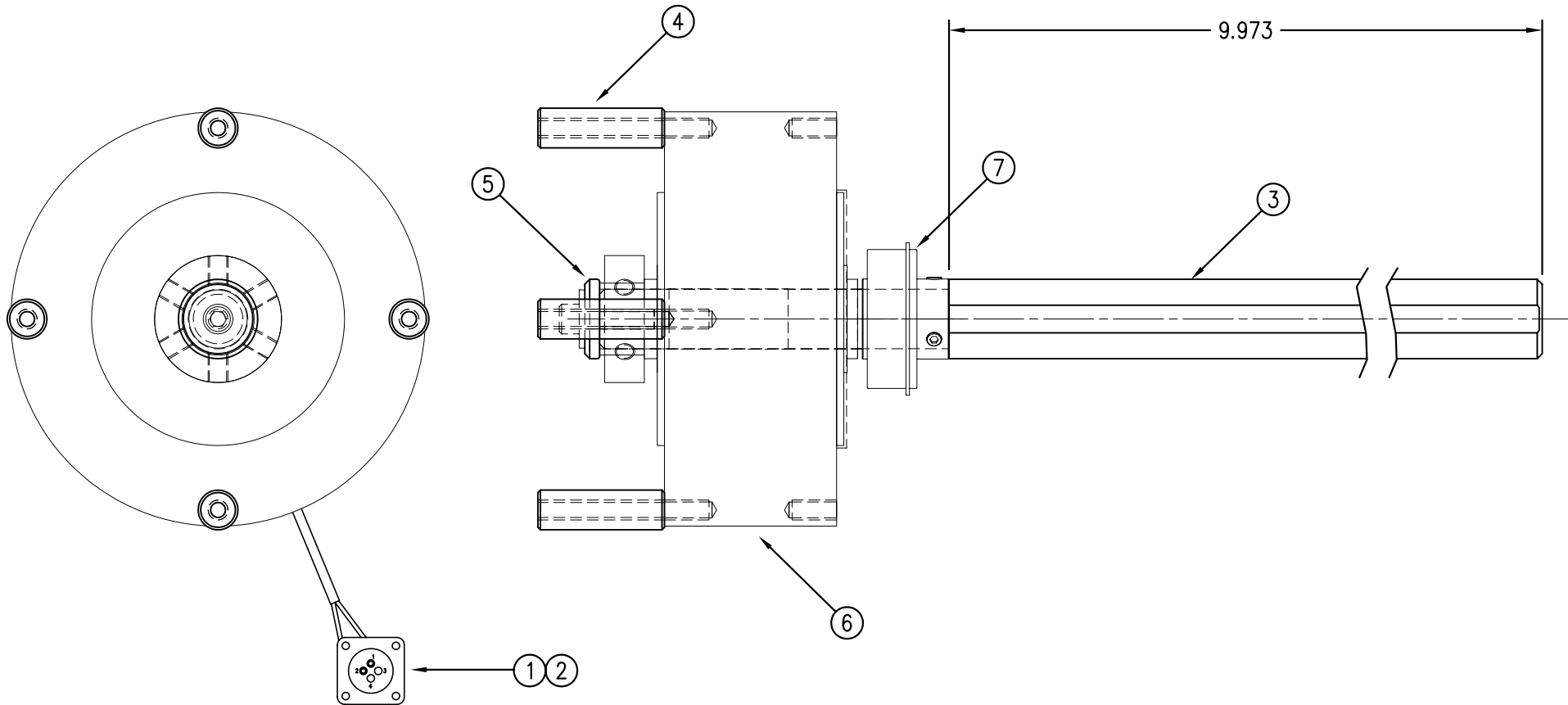
REV. 1	REV. DESCRIPTION ADDED AIR MANIFOLD END VIEW	REV. DATE 03/27/15	REV. BY: MK	Scale: 1=4	Date: 07/20/11	DRAWN BY: Jeffery Mendenhall	F:\Engineering\Standard Parts\System Components: 200a\ASS-200a-2302
--------	---	-----------------------	----------------	---------------	-------------------	---------------------------------	--

BILL OF MATERIAL

ASS-200a-2303

ASS-200a-2303

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	PE-CON2020	FEMALE (SOCKET) CONNECTOR
②	2	PE-CON7048	FEMALE PIN/ SOCKET (22 Ga.)
③	1	MP-200a-2314	7.50" UNWIND, BRAKE SHAFT
④	4	MP-200a-0320	BRAKE GUARD SPACER
⑤	1	MP-200-0229	REWIND SPRING RETAINER
⑥	1	C-PM-BRK1000	MAGNETIC PARTICLE BRAKE
⑦	1	C-PM-BE1210	3/4" BORE E.R. STYLE BEARING



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES POWERED UNWIND APPLICATOR: HOUSING

PART: 7.50" UNWIND, BRAKE ASSEMBLY

Dept. Code  
70

REV. 0  
REV. DESCRIPTION -

REV. DATE -

REV. BY: XXX

Scale: 1=2

Date: 07/20/11

DRAWN BY: Jeffery Mendenhall

F:\Engineering\Standard Parts\System Components:  
200a\ASS-200a-2303

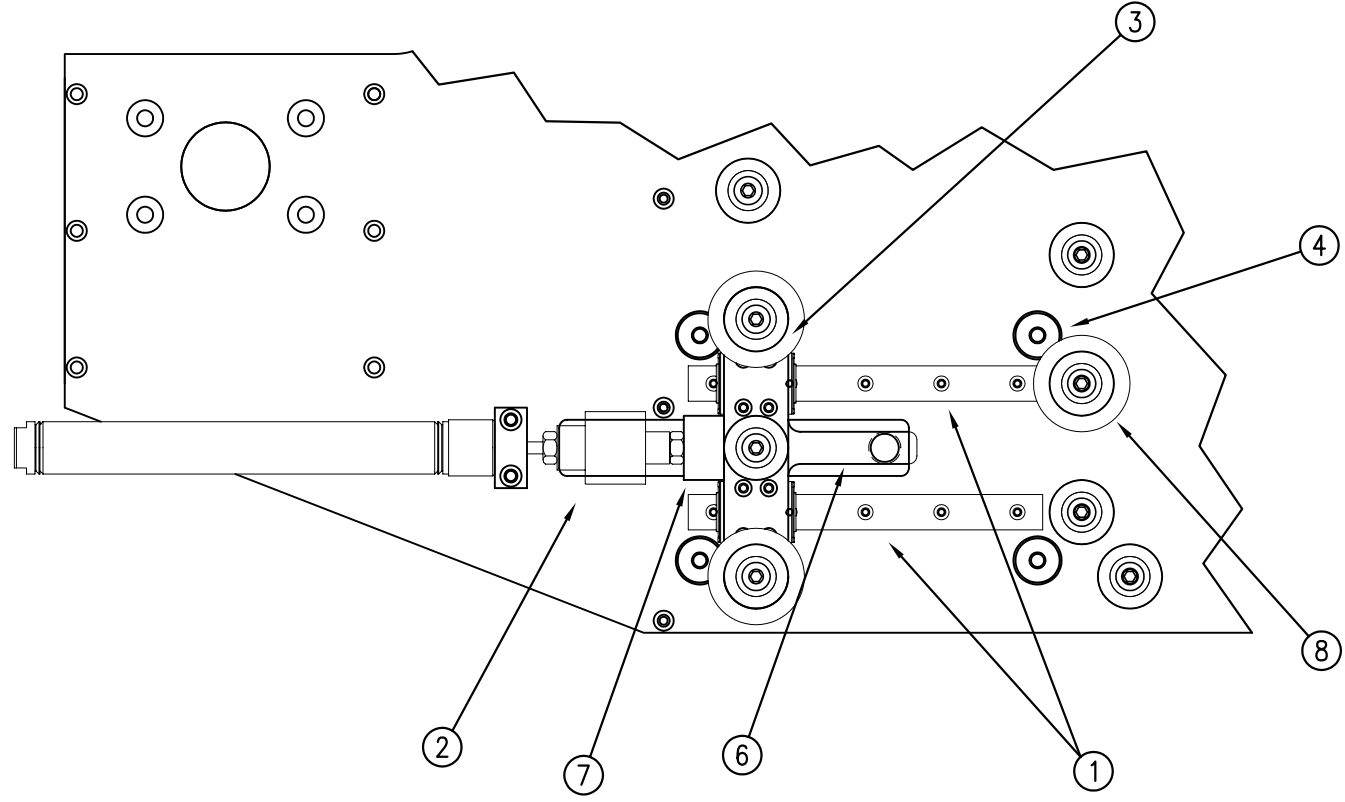
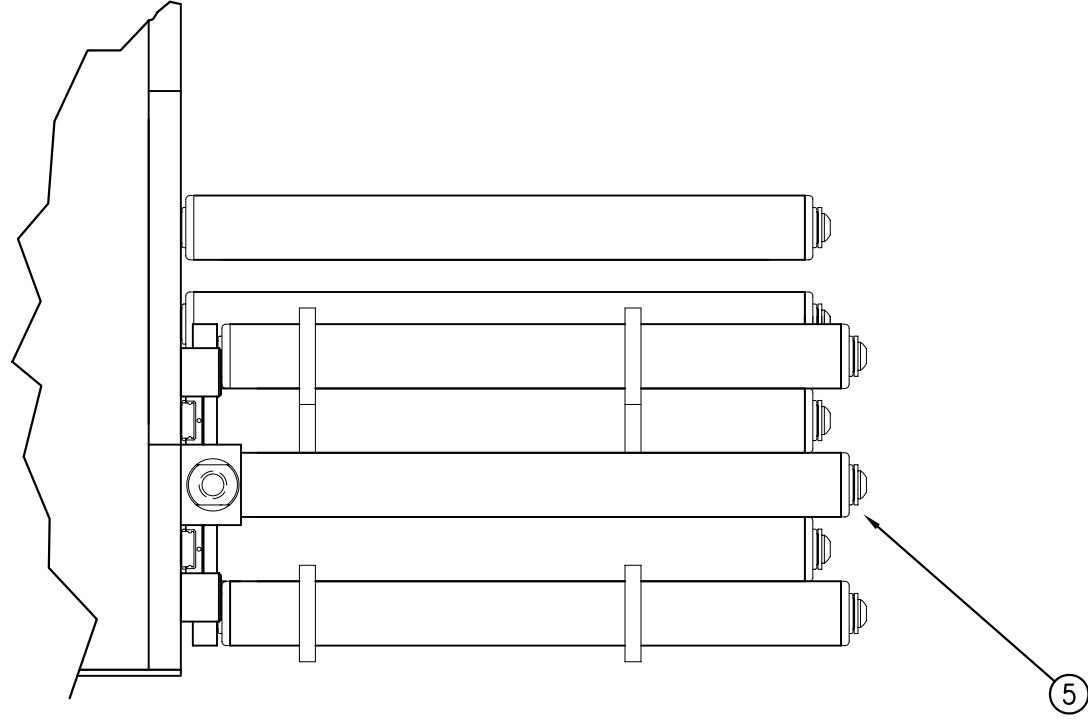
BILL OF MATERIAL

ASS-200-2304

ASS-200a-2304

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	2	PM-GD1040	THK Min. LM GUIDE, 140mm, (1) CARRIAGE
②	1	ASS-200-3168	CYLINDER MOUNTING ASSEMBLY
③	1	MP-200-3387	ROLLER CARRIAGE PLATE FOR PWR REWIND
④	4	MP-200-3310	360 TENSION ARM STOP
⑤	8	ASS-200-2150AS	1.00"Ø GUIDE ROLLER ASSEMBLY-(ANTI-STATIC)
⑥	1	PM-200-3388	POWERED REWIND CARRIAGE PROX. FINGER
⑦	1	MP-200-3389	CYLINDER ADAPTER BLOCK FOR PWR REWIND
⑧	2	MP-215-0202	1.00" Dia. GUIDE COLLARS

THIS ASSEMBLY IS AMBIDEXTROUS  
-SHOWN MOUNTED ON A RH APPLICATOR-



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

TITLE: 360a SERIES, 7.50" WIDE POWERED UNWIND APPLICATOR

PART: 7.50" WIDE POWERED REWIND SLIDE ROLLER ASSEMBLY

Dept. Code 70

REV. 0

REV. DESCRIPTION -NEW DRAWING FOR 360a POWERED UNWIND-

REV. DATE 10-13-08

REV. BY: ES

DATE: 07/14/11

SCALE: 1=3

DRAWN BY: Jeffery Mendenhall

F:\Engineering\System Components\200a\ASS-200a-2304

BILL OF MATERIAL

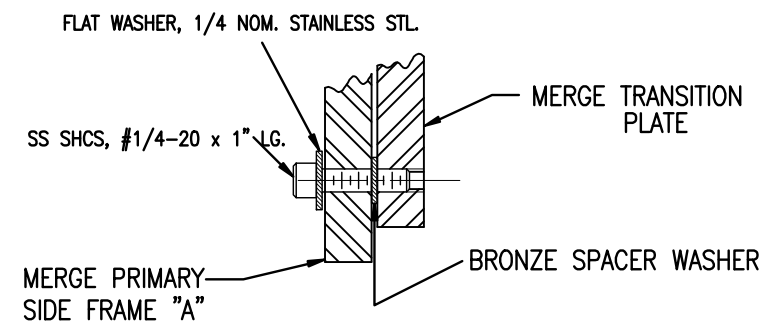
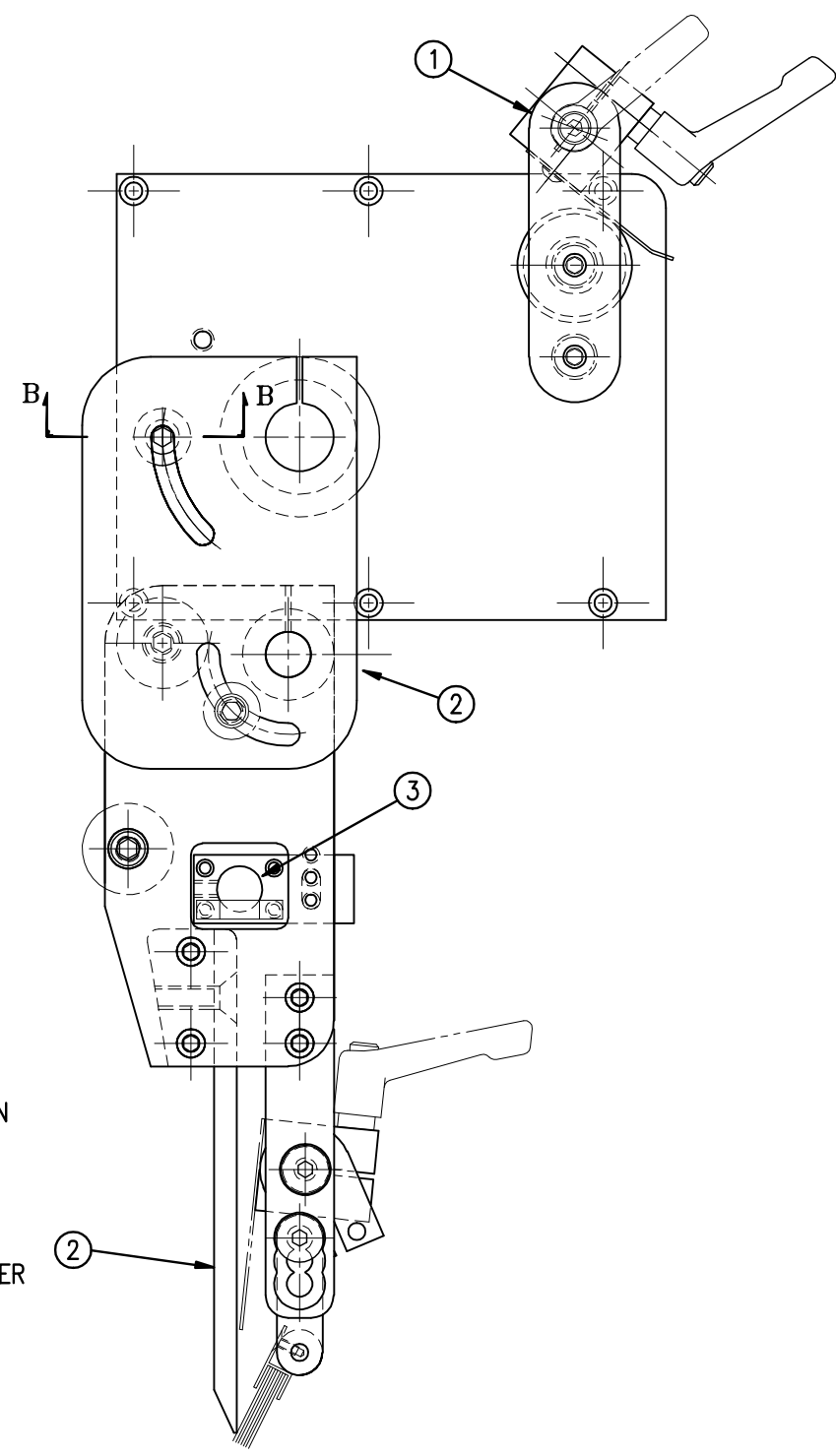
MOD-215-X105R/L-PP

ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	SAS-215-X105bR-PP	MERGE NOSE MOUNTING ASSEMBLY - RH
	1	SAS-215-X105bL-PP	MERGE NOSE MOUNTING ASSEMBLY - LH
②	1	SAS-215-X105aR-PP	MERGE NOSE ASSEMBLY - RH
	1	SAS-215-X105aL-PP	MERGE NOSE ASSEMBLY - LH
③	1	ASS-211-0108-2	FIBER OPTIC LABEL SENSOR ASSEMBLY with 2" MOUNTING ROD
	6	PM-FASH429075	SS SHCS, #10-32 x 5/8" LG.

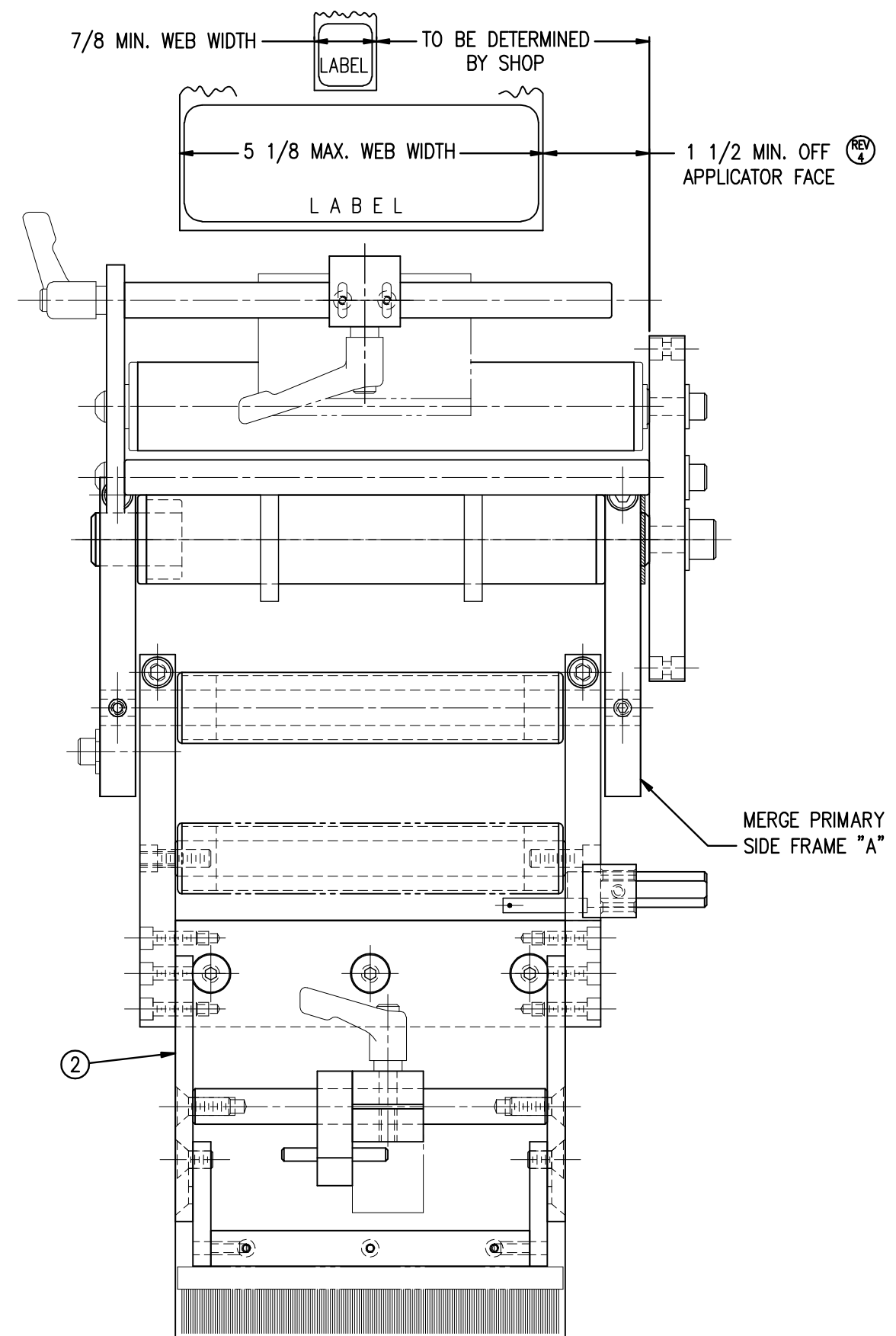
RH & LH MODULES AVAILABLE  
-RH MODULE SHOWN-

MOD-215-X105R/L-PP  
5" WIDE -0105R/L  
7.5" WIDE -2105R/L

Dept. Code  
70



SECTION "B" ROTATED 90° CCW  
(THRU PRIMARY SIDEFRAME "A")



THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.

APPLICATOR SERIES: 360A  
REV. DESCRIPTION: 1 BOM REVISED

APPLICATOR WIDTH(S): 5/7.5"

REV. DATE: 02/01/2016

REV. BY: ES

Scale: 1=2

Date: 08/18/11

Drawn By: Jeffery Mendenhall

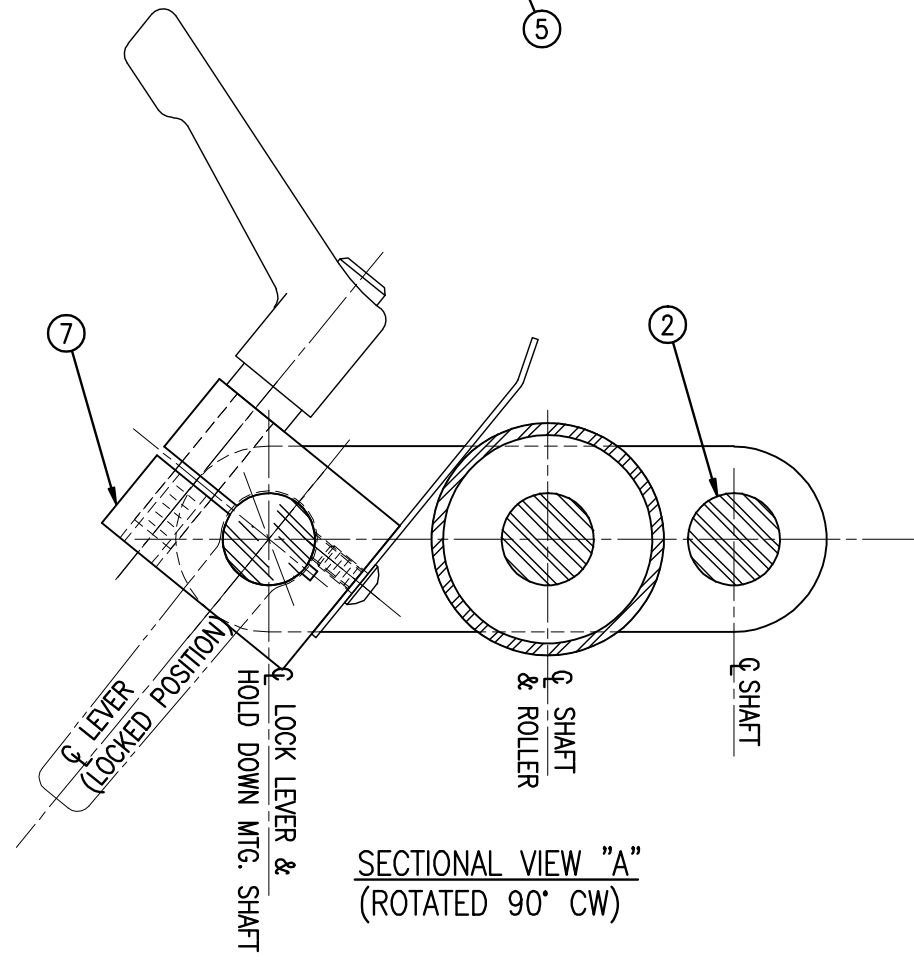
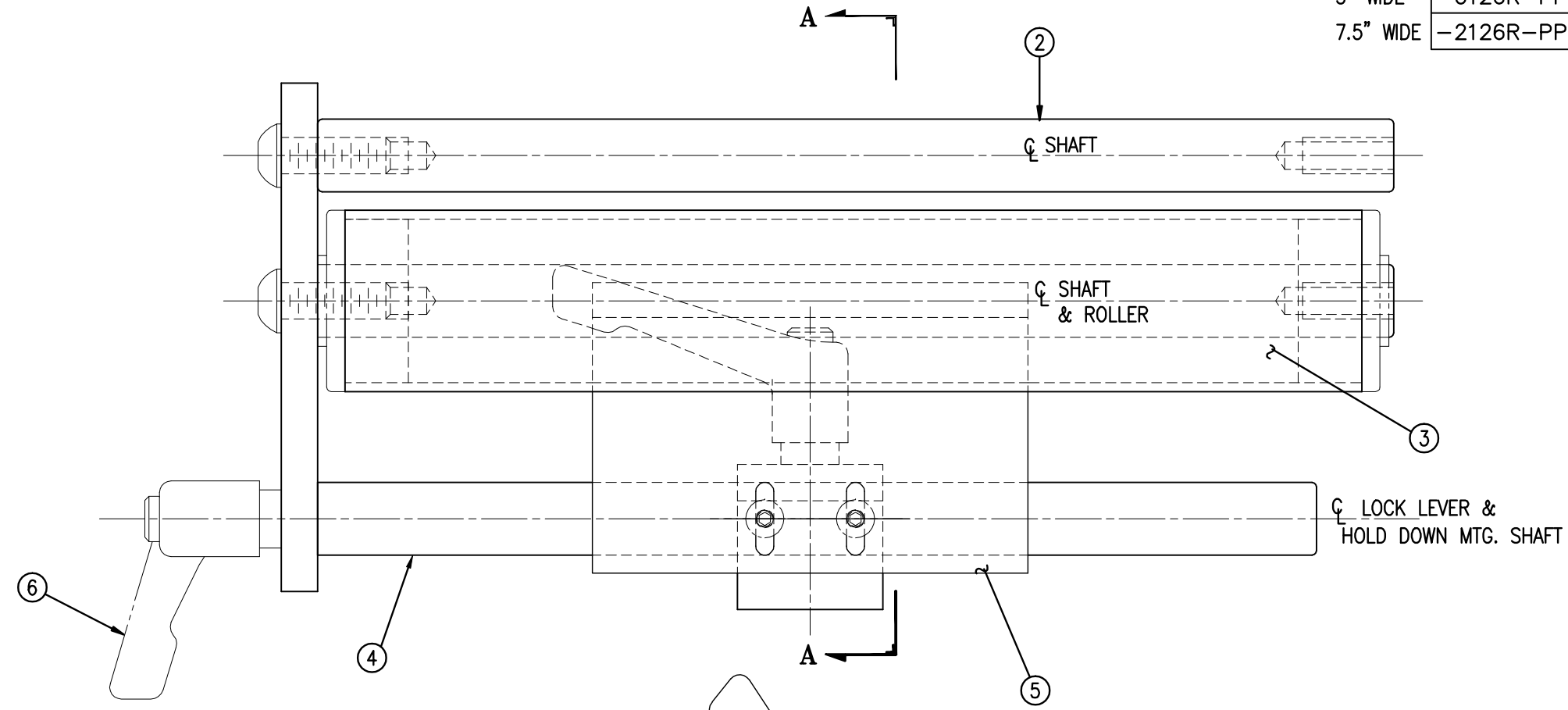
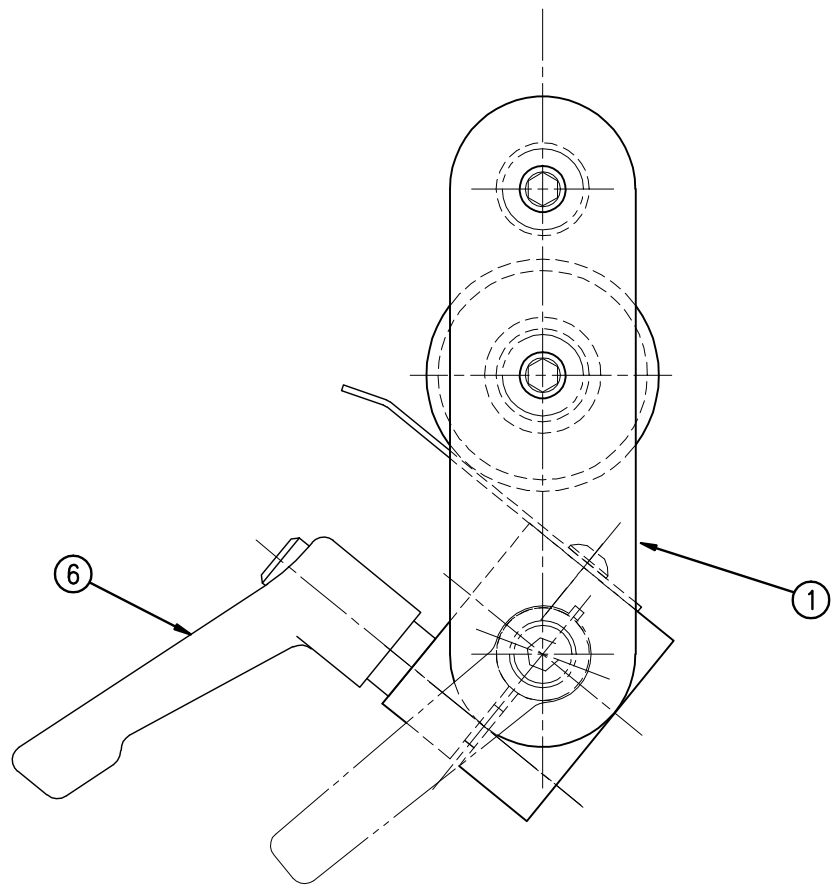
TITLE: POWERED UNWIND-REWIND MERGE NOSE MODULE

F:\Engineering\Standard Parts\Applcator\360A\215\MOD-215-X105RL-PP

ASS-200-X126R-PP

5" WIDE -0126R-PP  
7.5" WIDE -2126R-PP

Dept. Code 70  
F:\Engineering\Standard Parts\Appliator\360  
200\ASS-200-X126R-PP  
PART: TENSION SPRING STEEL RH ASSEMBLY  
Date: 08/18/11  
Scale: 1=1  
REV. BY: ES  
REV. DATE: 01/23/2016  
DRAWN BY: JLM  
THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.  
TITLE: 360 SERIES APPLICATOR: HOUSING ASSEMBLY  
REV. DESCRIPTION: 1 ANTISTATIC ROLLER ASSEMBLIES ADDED



BILL OF MATERIAL  
ASS-200-X126R-PP

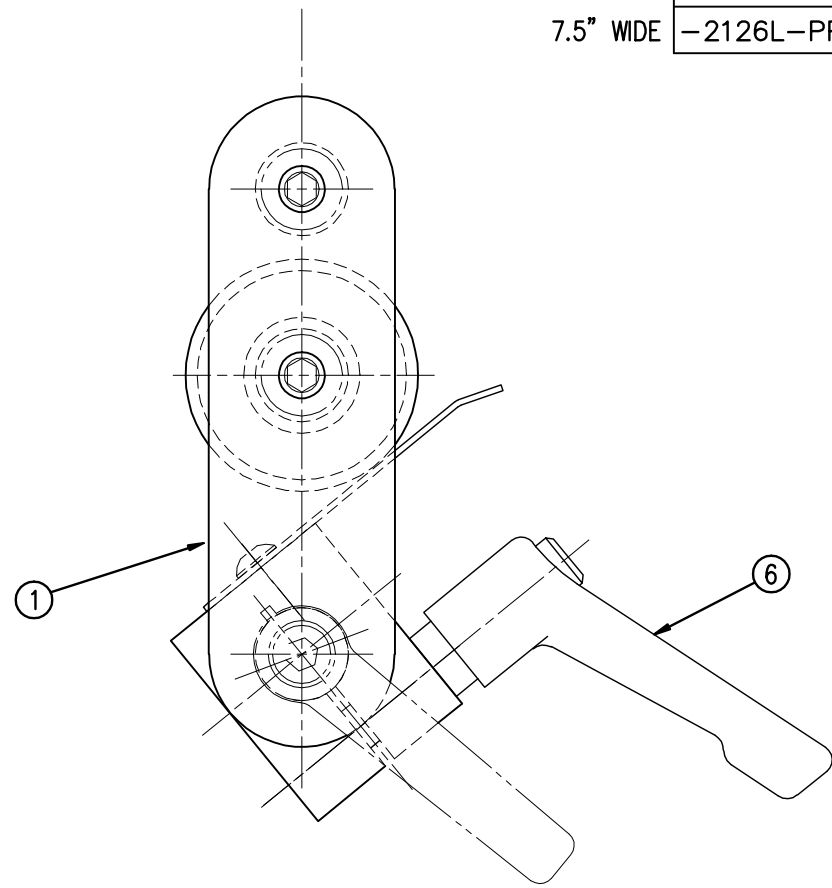
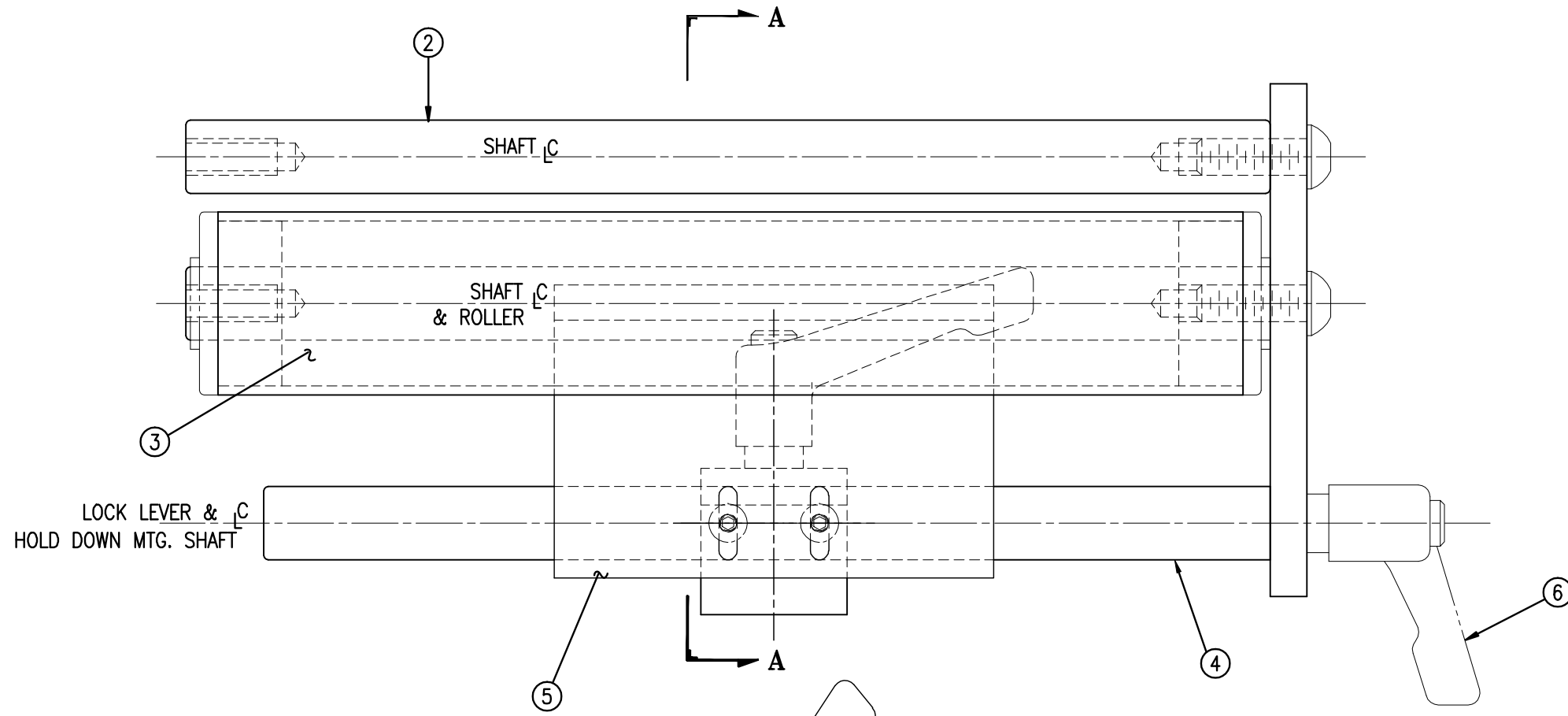
ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200-0256	OUTBOARD SUPPORT BRACKET
②	1	PF-200-X254	5/7.5/10 WEB TENSION ROLLER SHAFT
③	1	ASS-200-X135AS	5/7.5 TENSION ROLL ASS'Y w/SHAFT (ANTI-STATIC) (REV 1)
④	1	PF-200-X205	5/7.5 TENSION BRUSH MTC SHAFT
⑤	1	PM-211-0216-3	3" WIDE SPRING STEEL HOLD DOWN
⑥	2	PM-LL0902	LOCK LEVER
⑦	1	MP-211-0201	SPRING STEEL CLAMP BLOCK MOUNT
	2	PM-FASH430080	1/4"-20 X 1" LG. SS SOCKET HEAD CAP SCREW
	2	PM-FAW30277	1/4" SS FLAT WASHER
	2	PM-FABH35505	1/4"-20 X 3/4" LG. SS BUTTON HEAD CAP SCREW



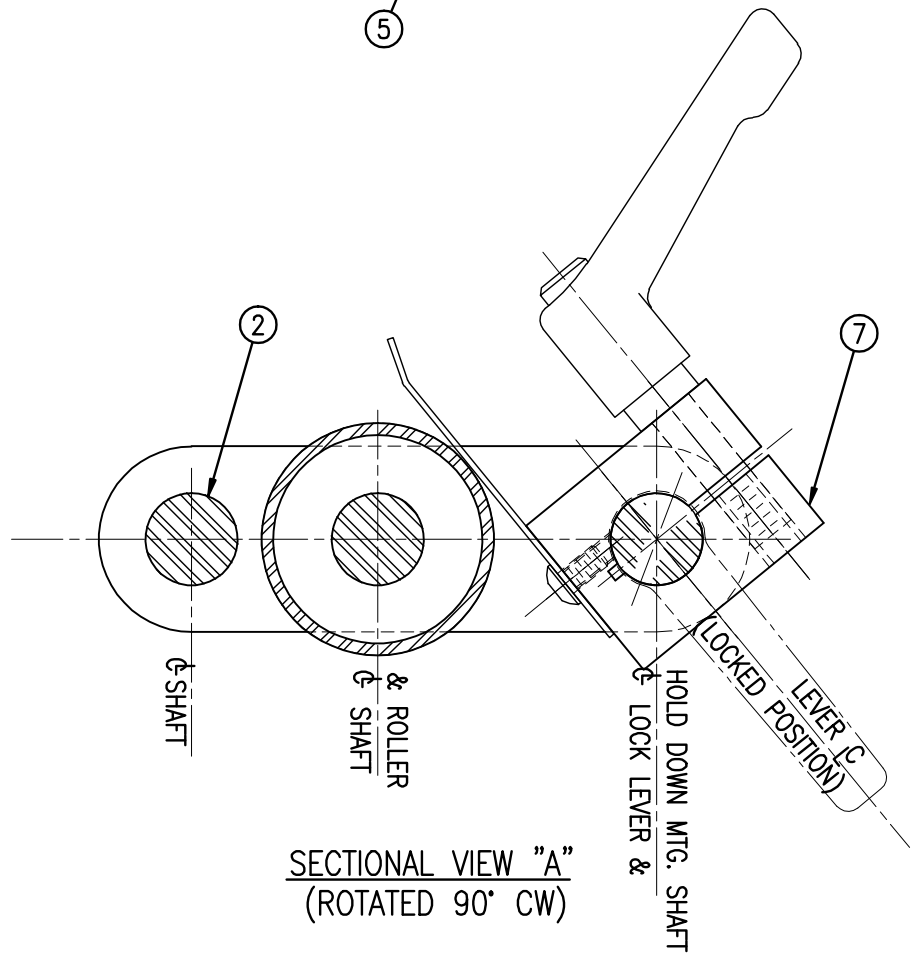
ASS-200-X126L-PP

5" WIDE -0126L-PP  
7.5" WIDE -2126L-PP

Dept. Code  
70



LOCK LEVER & C  
HOLD DOWN MTG. SHAFT



SECTIONAL VIEW "A"  
(ROTATED 90° CW)

BILL OF MATERIAL			
ASS-200-X126L-PP			
ITEM	QTY	CTM PART NUMBER	PART DESCRIPTION
①	1	MP-200-0256	OUTBOARD SUPPORT BRACKET
②	1	PF-200-X254	5/7.5/10 WEB TENSION ROLLER SHAFT
③	1	ASS-200-X135AS	5/7.5 TENSION ROLL ASS'Y w/SHAFT (ANTI-STATIC)
④	1	PF-200-X205	5/7.5 TENSION BRUSH MTG SHAFT
⑤	1	PM-211-0216-3	3" WIDE SPRING STEEL HOLD DOWN
⑥	2	PM-LL0902	LOCK LEVER
⑦	1	MP-211-0201	SPRING STEEL CLAMP BLOCK MOUNT
	2	PM-FASH430080	1/4"-20 X 1" LG. SS SOCKET HEAD CAP SCREW
	2	PM-FAW30275	1/4" SS FLAT WASHER
	2	PM-FABH35505	1/4"-20 X 3/4" LG. SS BUTTON HEAD CAP SCREW

THIS DRAWING AND DESIGN IS THE PROPERTY OF CTM INTEGRATION INC. AND MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF CTM INTEGRATION INC.  
 TITLE: 360 SERIES APPLICATOR: HOUSING ASSEMBLY  
 REV. DESCRIPTION: 1 ANTISTATIC ROLLER ASSEMBLIES ADDED  
 REV. DATE: 01/23/2016  
 REV. BY: ES  
 DRAWN BY: ES  
 Date: 08/13/2015  
 F:\Engineering\Standard Parts\Appliator\360  
 200\ASS-200-X126L-PP