

# Print Head Installation Guide



# Contents

Tools.....	4
Warnings .....	4
Introduction .....	4
Section One - Pillar Installation.....	6
Section Two - Print Head Installation.....	12
Section Three - Controller Cabinet Installation.....	16
Section Four - Raptor Control Panel .....	18
Section Five - Print Head Height Setting & Alignment.....	20
Section Six - Sensor Installation .....	26
Section Seven - Installing the Light Tree .....	30
Setting Up the Light Tree .....	32
Eagle AMS Maintenance .....	36
Setting Time Defaults.....	38
Setting Ink Volume .....	40
Cap Setting &Maintenance .....	41
Eagle AMS Status Notification .....	46
Installing Ink & Flush Bottle .....	49
Emptying the Waste Bottle .....	52

**Tools / Warnings /**



**Introduction**

## Tools

Tools needed to install the MCS Eagle AMS Print Head

- Screwdrivers
- Allen Wrench
- Measuring Tape
- Level
- Gloves

This manual details how to install the MCS Eagle AMS Print head on either a 530 or 430 base. The 530 base includes space for a dryer and the 430 base only has room for the print head.

## Warnings

- ▶ Do not touch the print head with your fingers.
- ▶ Use gloves when handling ink.
- ▶ Use only Think Ink approved gloves and wipes.

## Introduction

This manual details how to install the MCS Eagle AMS Print System on either a 530 or 430 base. The 530 base includes space for a dryer and the 430 base only has room for the print head.

# Section One

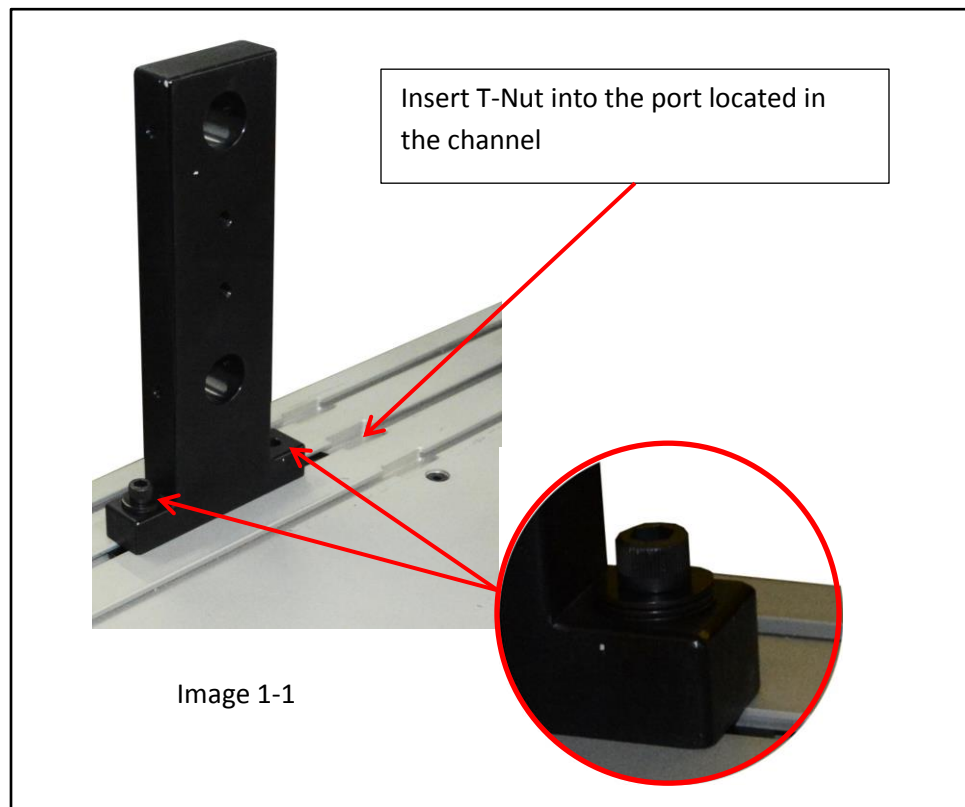


## Section One - Pillar Installation

### Step 1

Install the pillars to the base in the following manner:

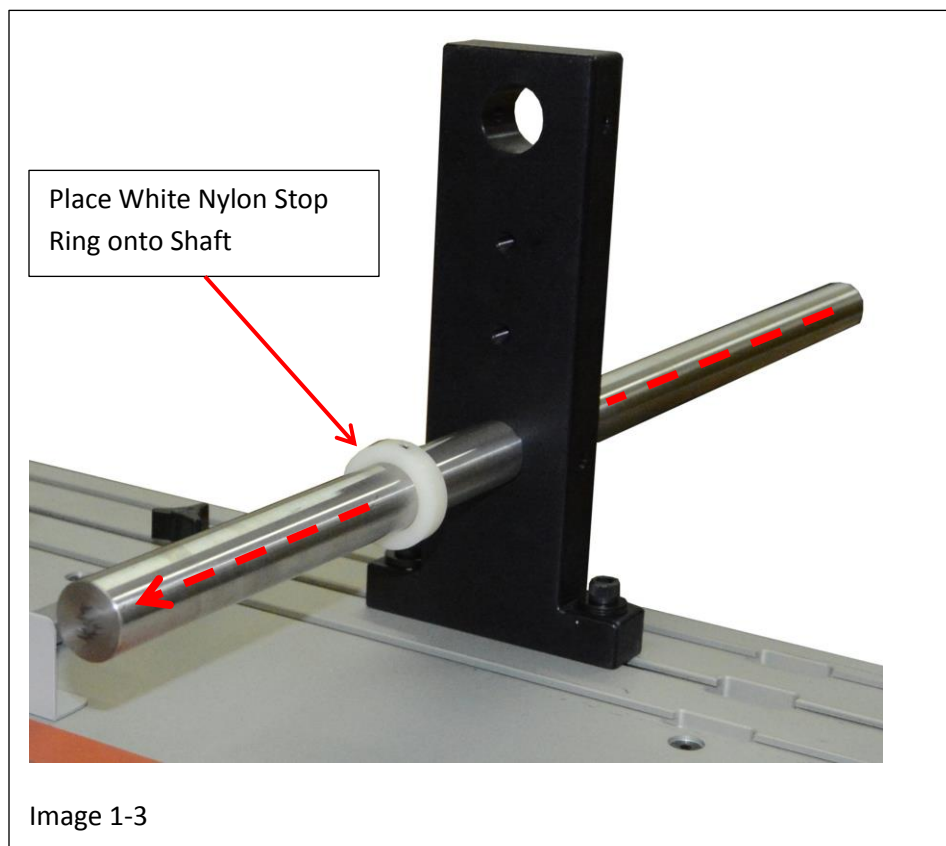
- A. Slide one of two T-Nuts into the middle back channel
- B. Insert one of two supplied hex head Allen screws into the through hole in the base of the pillar and start the threading it into the t-nut. (Note: Do not tighten at this time)
- C. Slide the pillar towards the front of the base to allow for the second of two t-nuts to be placed into the channel.
- D. Align the back through hole in the pillar with the t-nut and begin threading the second of two hex head Allen screws into the t-nut. (Note: Do not tighten at this time) refer to image 1-1
- E. To install the Front Pillar, perform steps "A" through "D" at the front middle channel position, see image 1-2



## Step 2

Before the pillars have been tighten in their permanent position, install the shafts in the pillars by performing the following:

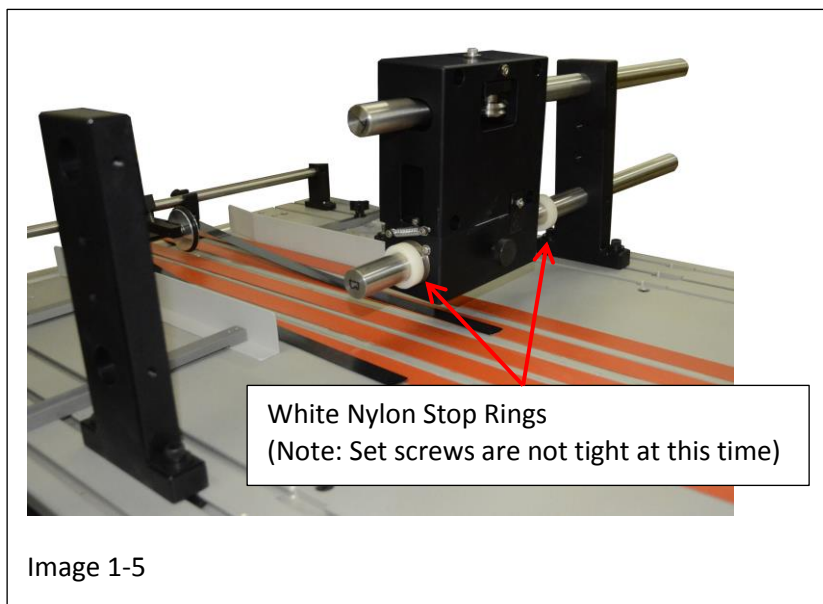
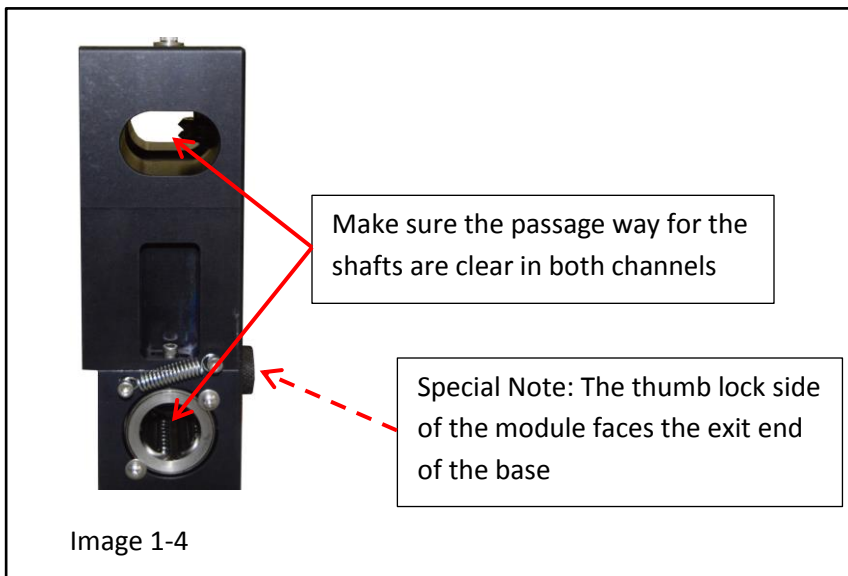
- A. Align one of two shafts with the bottom hole in one of the two pillars. (Note: it does not matter which of the two pillars you begin with)
- B. Slide the shaft through the hole starting from the back of the pillar
- C. Once the bottom shaft is approximately half way through the pillar, place the white nylon stop ring on the shaft. (Note: The white nylon stop ring has a set screw in it, make no attempt to tighten this set screw at this time)
- D. Align the second of two shafts with the top hole of the same pillar and slide it approximately half way through the hole.



### Step 3

Once both shafts have been set approximately half way into one of the pillars, install the Print Head Mount Module in the following manner:

- A. Make sure the all top guide wheels backed out enough to allow for the top shaft to pass through unobstructed in the top shaft channel, see image 1-4.
- B. Make sure the lower shaft channel is free of all other packing material and debris, see image 1-4
- C. Support the bottom of the module while sliding the bottom shaft through the Mount Module, see image 1-5
- D. Once the Mount Module is on the bottom shaft slide the top shaft through the module.
- E. Slide the second of two White Nylon Stop Rings onto the lower shaft, see image 1-5  
(Note: Do not tighten the set screw at this time)





- F. Align the opposing pillar with the shafts coming through the Mount Module and slide both shafts through the pillar.
- G. Position the shafts in the Pillars so that both shafts are flush to the Pillar on the “Operator’s” side of the base leaving any excess length to protrude from the back Pillar.
- H. Lock the shafts into place using the supplied set screws. (Note: Place the set screws in the opposite side that the ink bottle upright will mount to)

#### Step 4

Install the Print Head Mount Plate to the Mount Module in the following manner:

- A. Position the Print Head Mount Plate on the side of the Mount Module facing the input end of the base, see image 1-6
- B. Insert the four (4) supplied hex head Allen screws (one at a time) into the through holes in the back of the Mount Module and start threading the screws into the Print Head Mount Plate, see image 1-7
- C. Once all the screws have been started tighten each one using firm to moderate force. ( ⚠ Caution: Do not over tighten these screws. Over tightening the screws may result in damage to the mount plate)

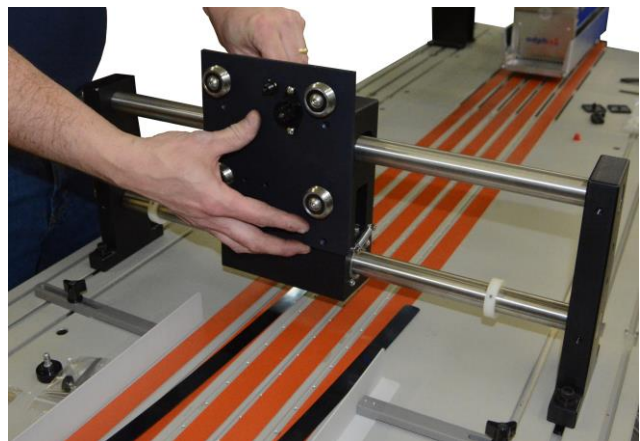


Image 1-6

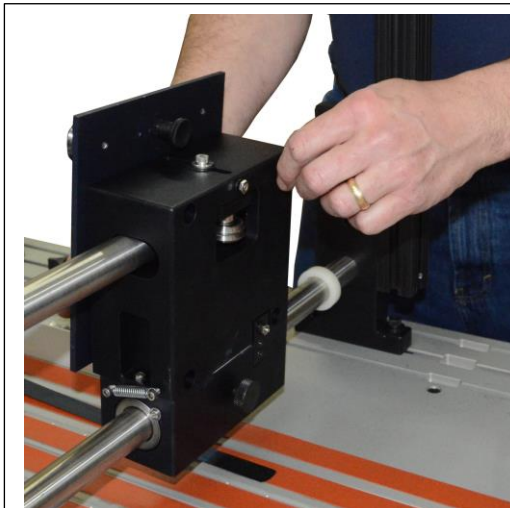
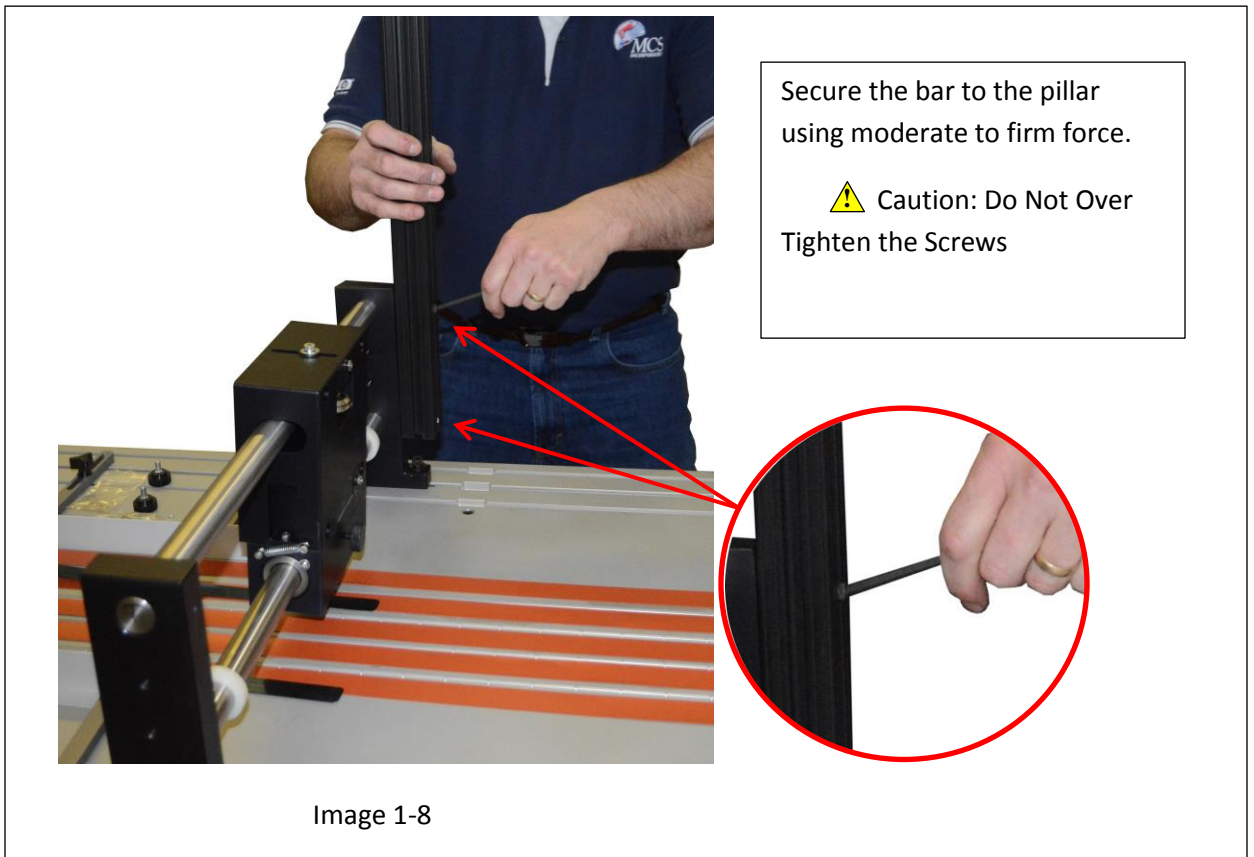


Image 1-7

## Step 5

Install the Ink Bottle Mount Bar by performing the following:

- A. Place bar next to the back Mount Pillar to the opposite side from the shaft set screws installed in Step 3-H
- B. Align the through holes in the bar with the mount holes in the side of the back pillar, see image 1-8
- C. Using the supplied hex head Allen screws secure the bar to the pillar using moderate to firm force.  
( ⚠ Caution: Do not over tighten these screws. Over tightening the screws may result in damage to the mount pillar)



The logo features a stylized eagle in profile, facing left, with its wings spread. The eagle is rendered in a light blue color. The text 'Section Two' is written in a bold, dark blue serif font, positioned above the eagle's wings. Below the eagle, the word 'Eagle' is written in a light blue serif font, with the 'E' partially overlapping the eagle's head. Underneath 'Eagle', the words 'Print Head Installation' are written in a dark blue serif font. At the bottom of the logo, the letters 'AMS' are written in a light blue serif font.

**Section Two**  
Eagle  
Print Head Installation  
AMS

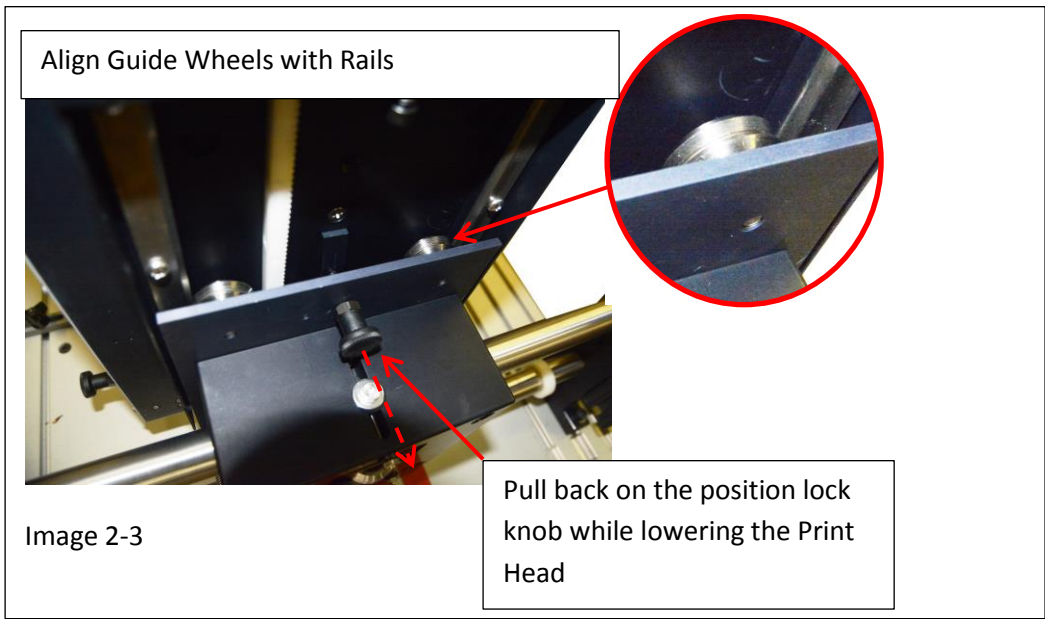
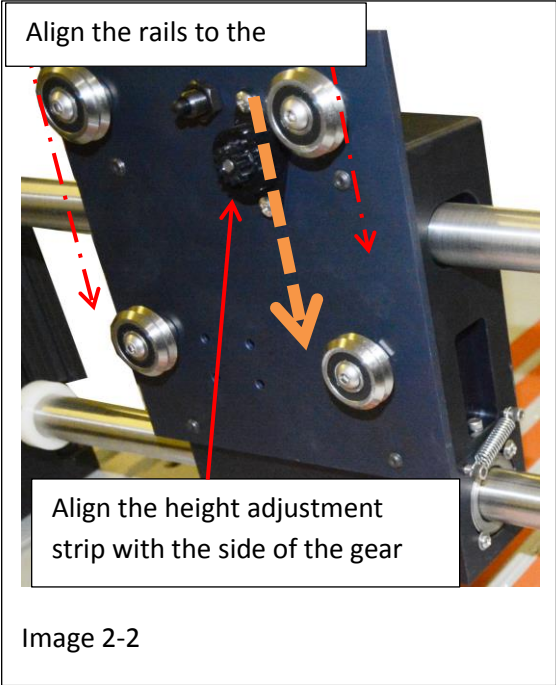
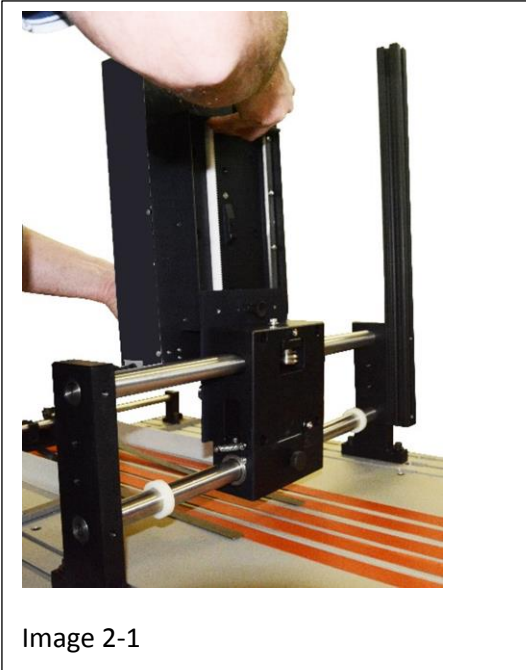
## Section Two - Print Head Installation

The Eagle AMS Print head will be shipped with both umbilicals connected to the Print Head and Control Cabinet. The shipping straps must be removed first before installing the Print Head to the Mount Plate. Make sure the Control Cabinet is close enough to the transport base so the Print Head can be positioned freely without pulling or damaging the umbilicals.

### Step 1

Install the Print Head to the plate in the following manner:

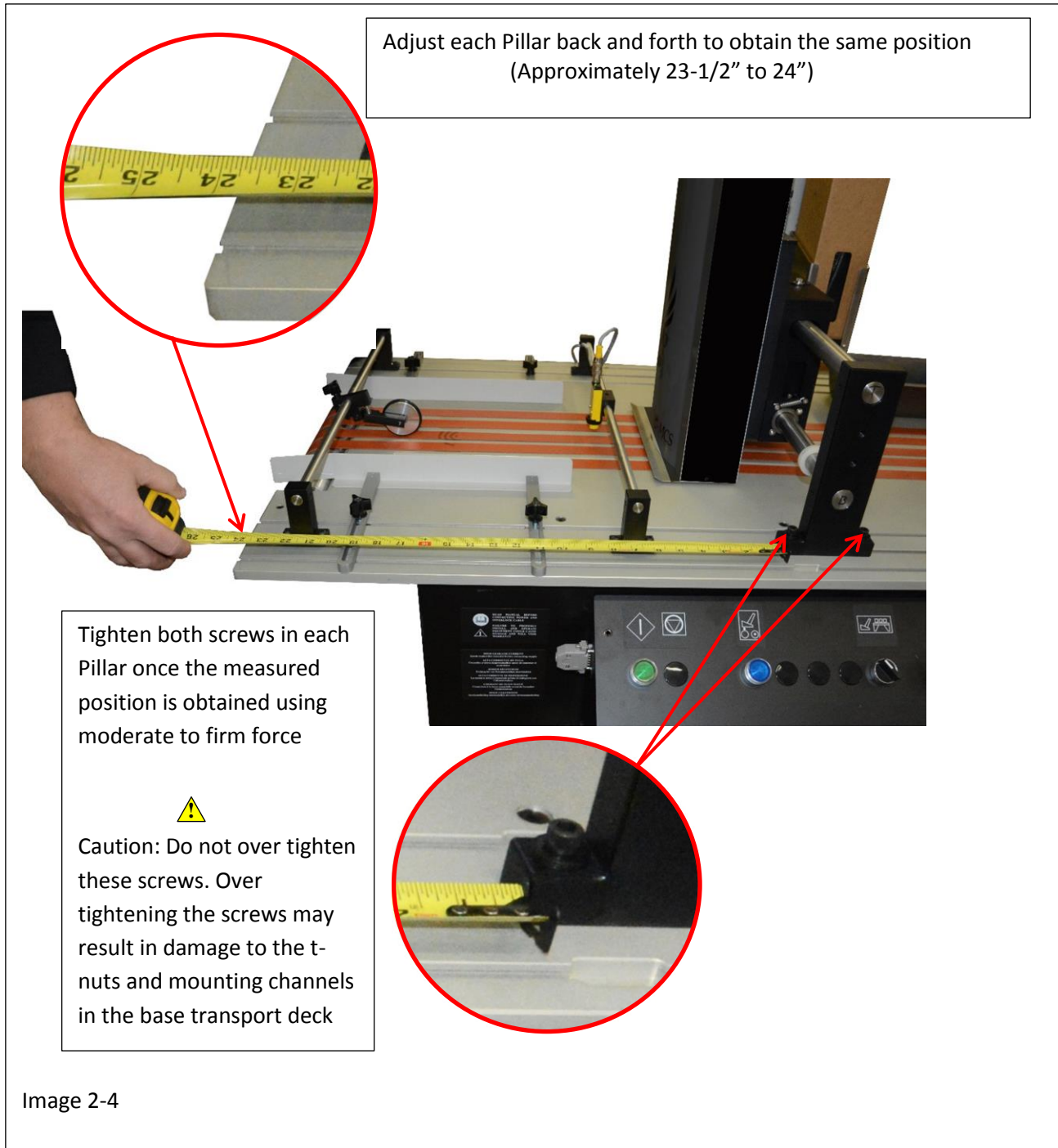
- A. Using your right hand hold the Print head firmly at the top of the unit and support the bottom of the print head with your left hand. The Eagle AMS Print Head is large and bulky, get help with this step if you do not feel comfortable lining up this print head to the mount plate by yourself. The pictures shown below are of the smaller Eagle Print Head, the mount plate is identical, see image 2-1 and 2-2. (Note: Make sure the height adjustment strip aligns properly with the height adjustment gear)
- B. Gently align the Head Rails, located on the back surface of the print head with the track wheels on the mount plate, see image 2-2
- C. Slowly lower the Print Head onto the mount plate, once the top wheels have captured the rails, use your right hand to pull the position lock knob back, see image 2-3



## Step 2

Set the position of the Eagle AMS Print Head Mount Module Assembly to the base by performing the following:

- A. Using a tape measure place both Pillars at approximately 23-1/2" to 24" from the input side of the base, see image 2-4. (Please note: The image shown below is of the Eagle Print Head. This step is the same for all Eagle and Osprey Print Heads.)
- B. Lock the pillars into position by tightening the hex head screws inserted into the pillars in step 1-B and 1-D using moderate to firm force. (⚠ Caution: Do not over tighten these screws. Over tightening the screws may result in damage to the t-nuts and mounting channels in the base transport deck)



# **Section Three**



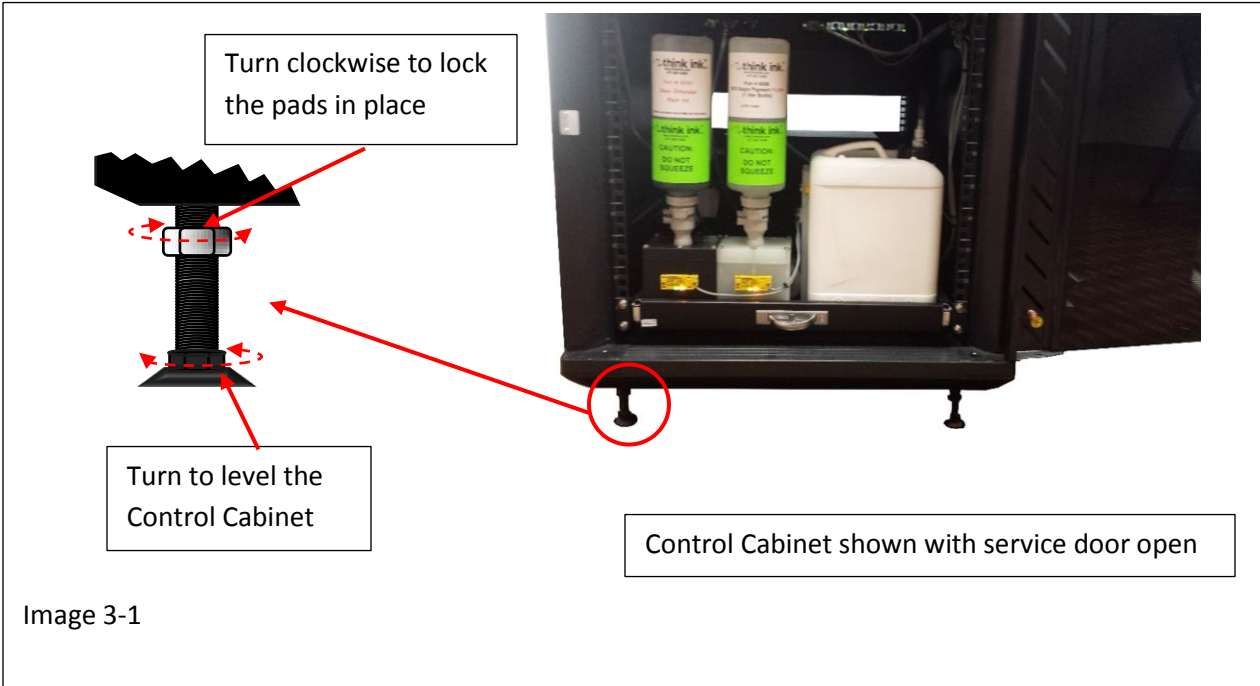
## **Controller Cabinet Installation**

### Section Three - Controller Cabinet Installation

Once the Eagle AMS Print Head has been installed to the mount plate the Control Cabinet can be positioned. Commonly most installs would show the cabinet under the feeder section of the base but this cabinet could be positioned anywhere on the non-operator side of the machine.

Once the Cabinet has been positioned, perform the following:

- A. Lower the leveler pads until the rollers are off the floor and level the cabinet.
- B. Lock the leveler pads in place by tightening the lock nuts, see image 3-1.







# **Section Four**

## **Raptor Control Box Installation**

## Section Four - Raptor Control Panel

The Raptor control box is part of the main control cabinet. The connection panel is accessible at the back of the cabinet, see image 4-1

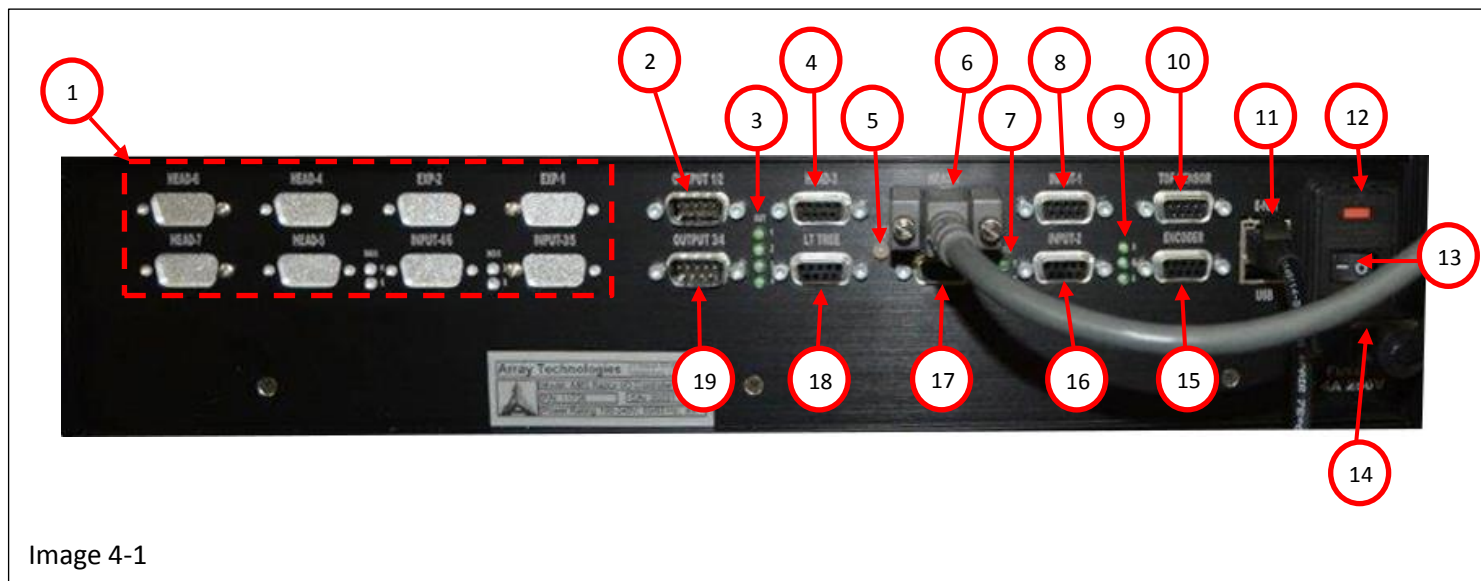


Image 4-1

Item	Description	Item	Description
1	Open Ports to accommodate an Expansion Board. Expansion Board can support 4 more print heads and Inputs	11	Ethernet Connection to Switch
2	db 9 pin male connector / Output Print Head 1 & 2	12	Fuse holder for 4 AMP / 250V fuse
3	Led Indicator for Print Head Output 1-4	13	On / Off Switch
4	db 9 pin female connector for Link / Head 3	14	Power Receptacle / 115 VAC
5	ACT LED indicates Ethernet cable status. Fast Flashing Blue indicates No Cable Connected, Flashing Green indicates Cable Connected but NO PC Connected, Slow Pulse Green indicates Normal Operating	15	db 9 pin female connector to Encoder
6	db 9 pin female connector / Print Head 1	16	db 9 pin female connector / Input 2
7	Led Indicator for Input 1-2	17	db 9 pin female connector / Print Head 2
8	db 9 pin female connector / Input 1	18	db 9 pin female connector / Light Tree
9	LED indicator for Encoder bands A, B, TOF Sensor	19	db 9 pin male connector / Output Print Head 3 & 4
10	db 9 pin female connector / TOF (Top Of Form) Sensor		

Special Note: One of the Print Head db 9 connectors will be used for power to the ink supply

# **Section Five**

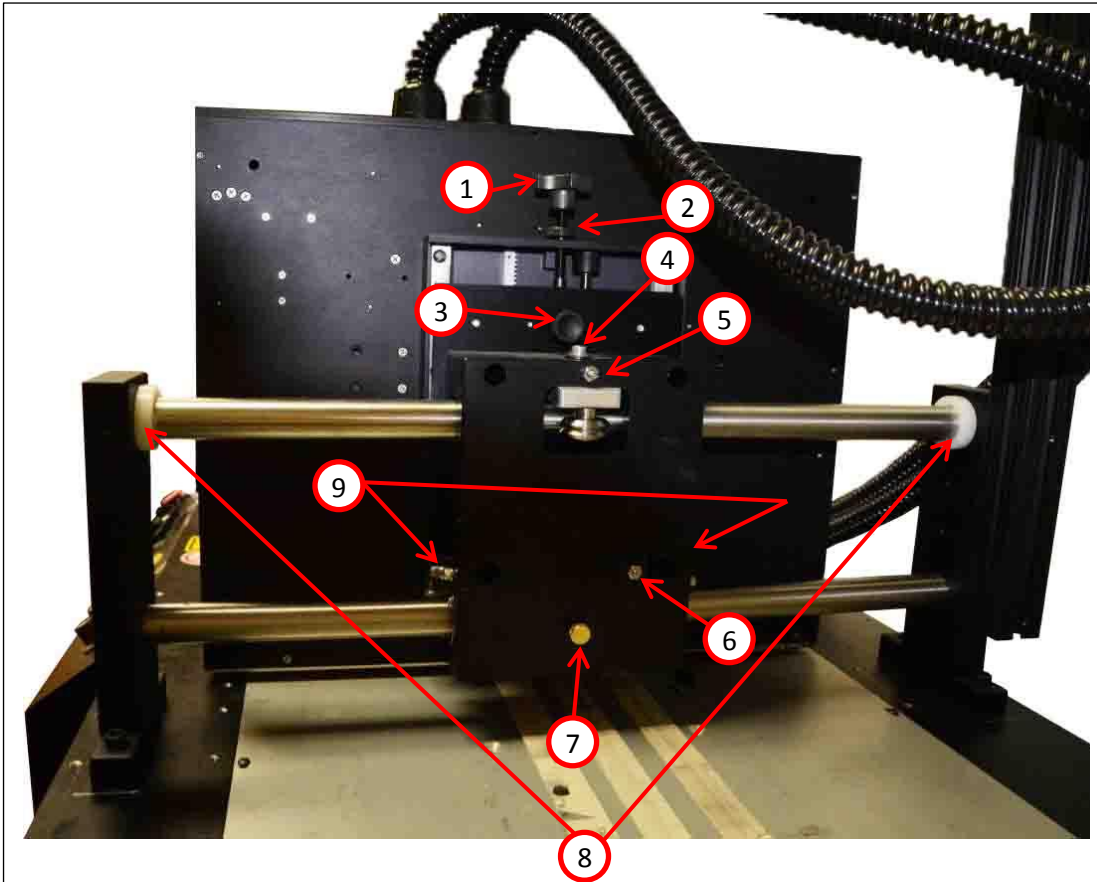


**Print Head Height Setting  
& Alignment Installation**

**AMS**

## Section Five - Print Head Height Setting & Alignment

Before setting the height of the Eagle AMS Print Head and adjusting the alignment, review the adjustment locations and their function by reviewing image 5-1



### Legend

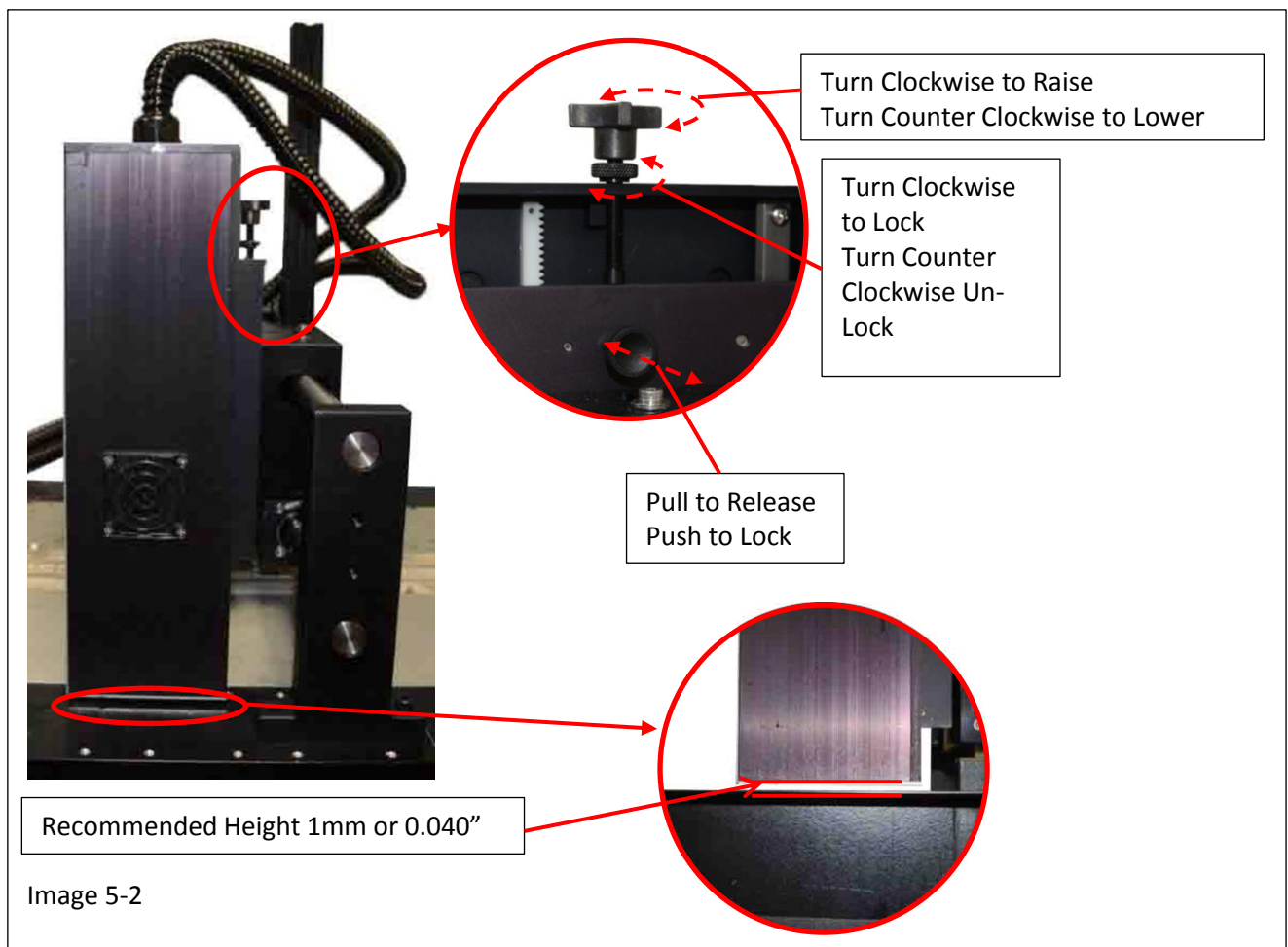
1. Print Head Height Adjustment Knob
2. Height Adjustment Lock Ring
3. Up / Down Position Slide Lock
4. Forward Tilt Retaining Screw
5. Forward Tilt Adjustment Screw w/ nut
6. Skew Adjustment Screw
7. Side / Side Position Lock Knob
8. Two, Slide Stop Ring
9. Skew Lock Screw (One at each side)

Image 5-1

## Step 1

Adjust the height of the Eagle AMS Print Head in the following manner:

- A. Place a sample of material you wish to print on under the Eagle AMS Print Head.
- B. Pull and hold the Up / Down Position Slide Lock and lower the Print Head to the Down Position. Release the Lock once the head is down.
- C. Turn the Height Adjustment Lock Ring counter clockwise to loosen.
- D. Turn the Adjustment to raise or lower the print head until the skid plate of the head is theoretically 1 millimeter or 0.040 inches from the surface of the sample, see image 5-2. (Note: Just high enough for the paper to pass under the Print Head Ski without causing the paper to drag on the transport belts)
- E. Turn the Height Adjustment Lock Ring clockwise to tighten.

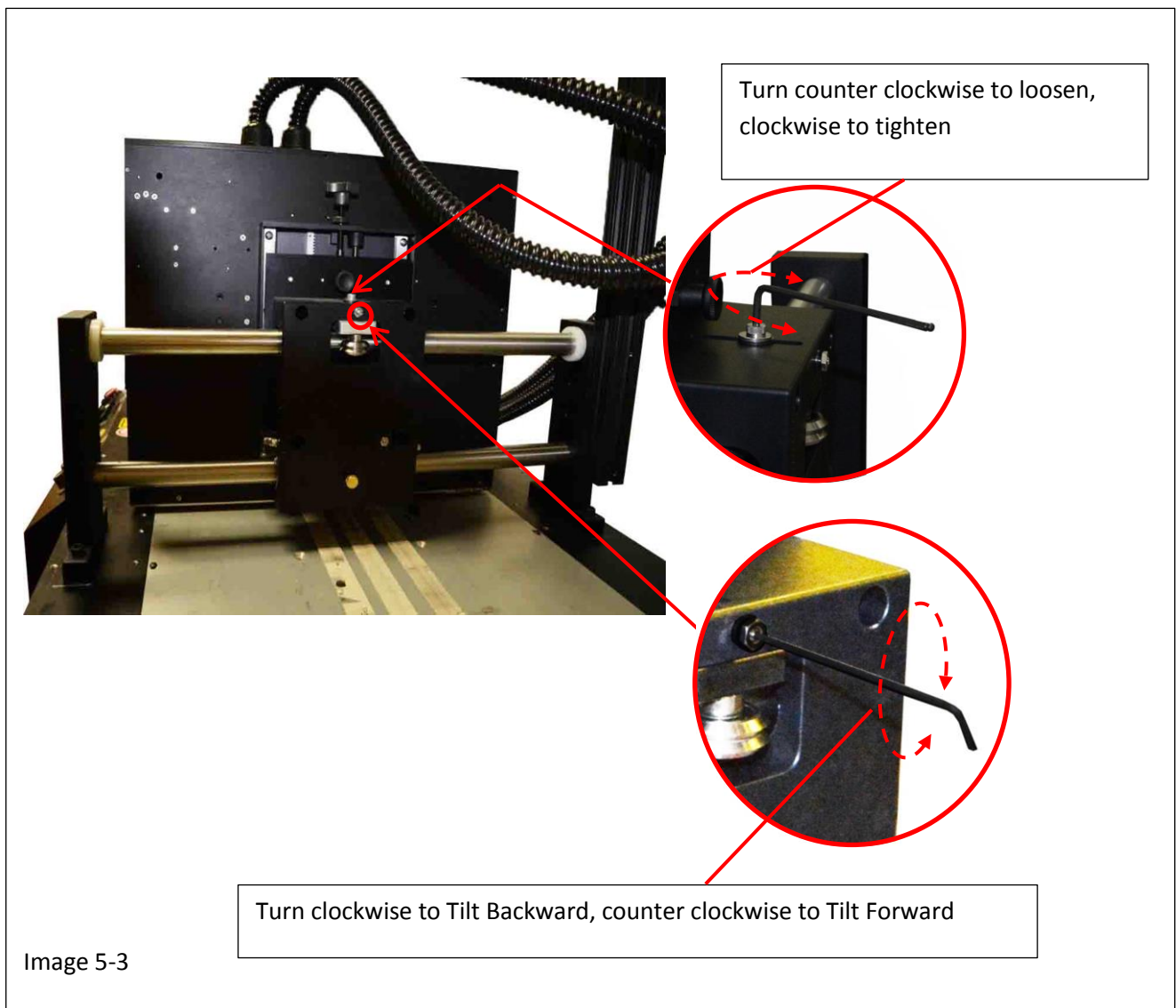


## Step 2

It is important that the Eagle AMS Print Head stay level to the deck. This can be accomplished by adjusting the forward / backward tilt of the Eagle AMS Print Head in the following manner:

- A. Using an Allen wrench, loosen the lock screw located on the top of the Mount Module, see image 5-3
- B. Using an Allen wrench, adjust the forward or back tilt of the Eagle AMS Print Head by turning the adjustment screw clockwise to tilt backwards, counter clockwise to tilt forward. (Note: it may be necessary to loosen and tighten the hex head nut associated with this screw)
- C. Tighten the lock screw by turning it clockwise with an Allen wrench.

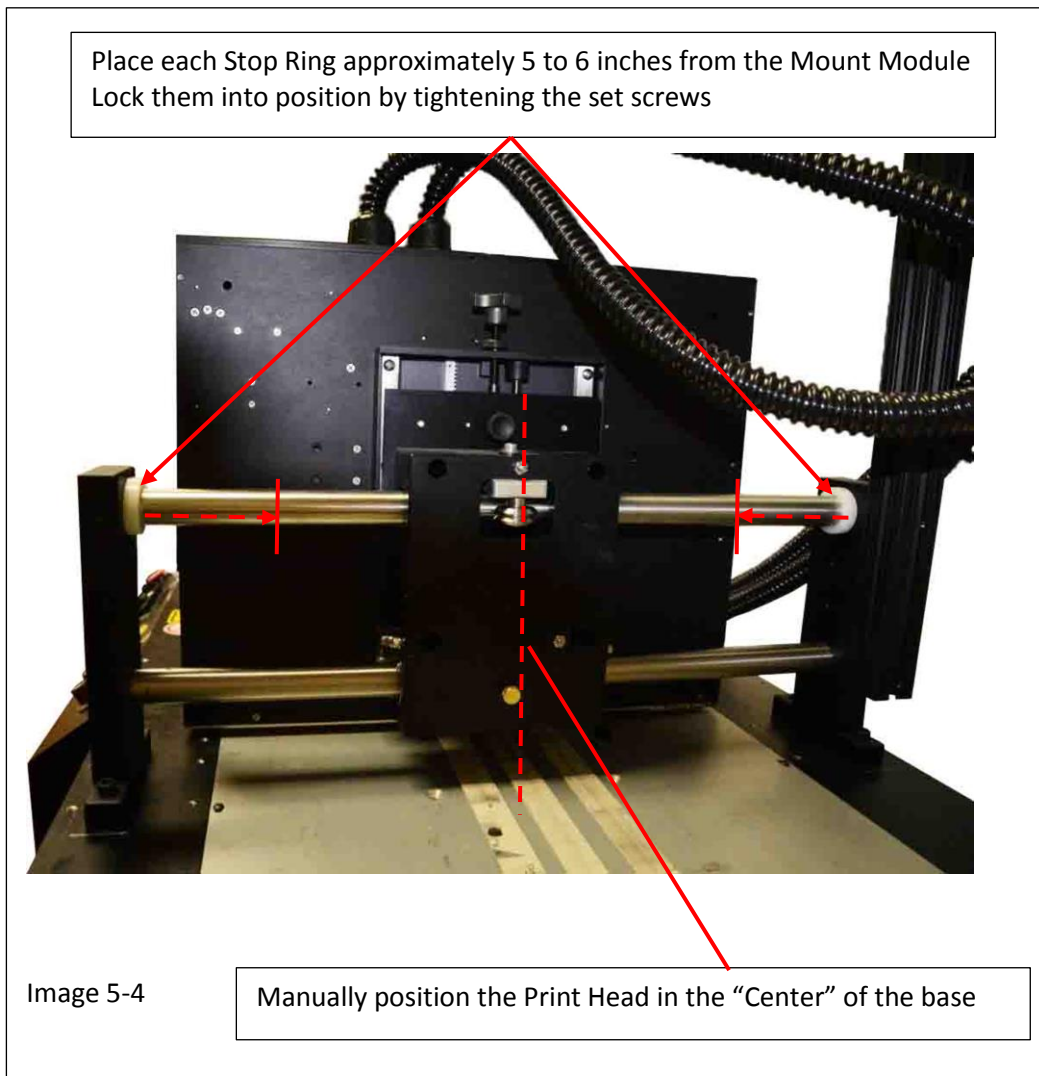
(Special Note: If the ink jet base is level, then a level can be used to make this adjustment. If for some reason the base can't be leveled then make the Print Head level to the base by measuring front to back along the ski plate to level the head with the deck.)



### Step 3

Set the Slide Travel Stop Rings to limit the travel distance on the Eagle AMS Print Head by performing the following:

- A. Manually position the Eagle AMS Print Head in the center of the base, see image 5-4
- B. Measure out 5 to 6 inches from the "Back" side of the Print Head and lock the Stop Ring in place by tightening the set screw. ( ⚠ Caution: Do not over tighten these screws. Over tightening the screws may result in damage to the Stop Ring )
- C. Measure out 5 to 6 inches from the "Front" side of the Print Head and lock the Stop Ring in place by tightening the set screw. ( ⚠ Caution: Do not over tighten these screws. Over tightening the screws may result in damage to the Stop Ring )

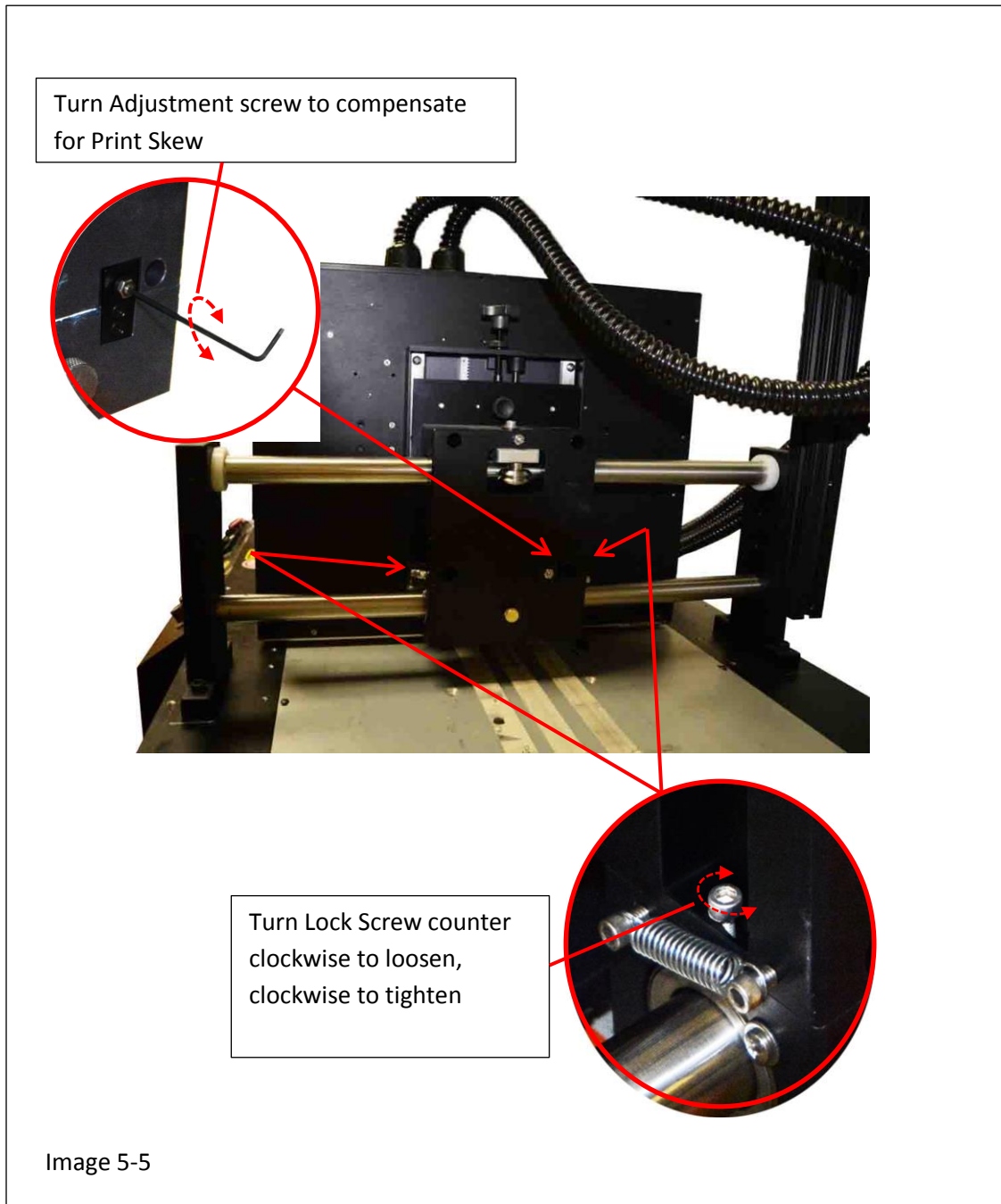


#### Step 4

Compensating for Print Image appearing skewed on the paper can be accomplished by performing the following:

- A. Loosen the Lock Screw at each side of the Mount Module
- B. Turn the Adjustment Screw clockwise to “Draw” the back side of the Print Head towards the Mount Shafts while pushing the front side away from the shafts. Turning the adjustment screw counter clockwise will have the opposite effect, see image 5-5.

(Special Note: Before making this adjustment make sure the skew problem is not feeder alignment with eth base or worn belts tracking erratically on the base)





A stylized, light blue eagle logo is positioned behind the text. The eagle's head is on the left, facing right, with its wings spread. The text is overlaid on the eagle's body.

**Section Six**  
agle  
Sensor Installation  
AMS

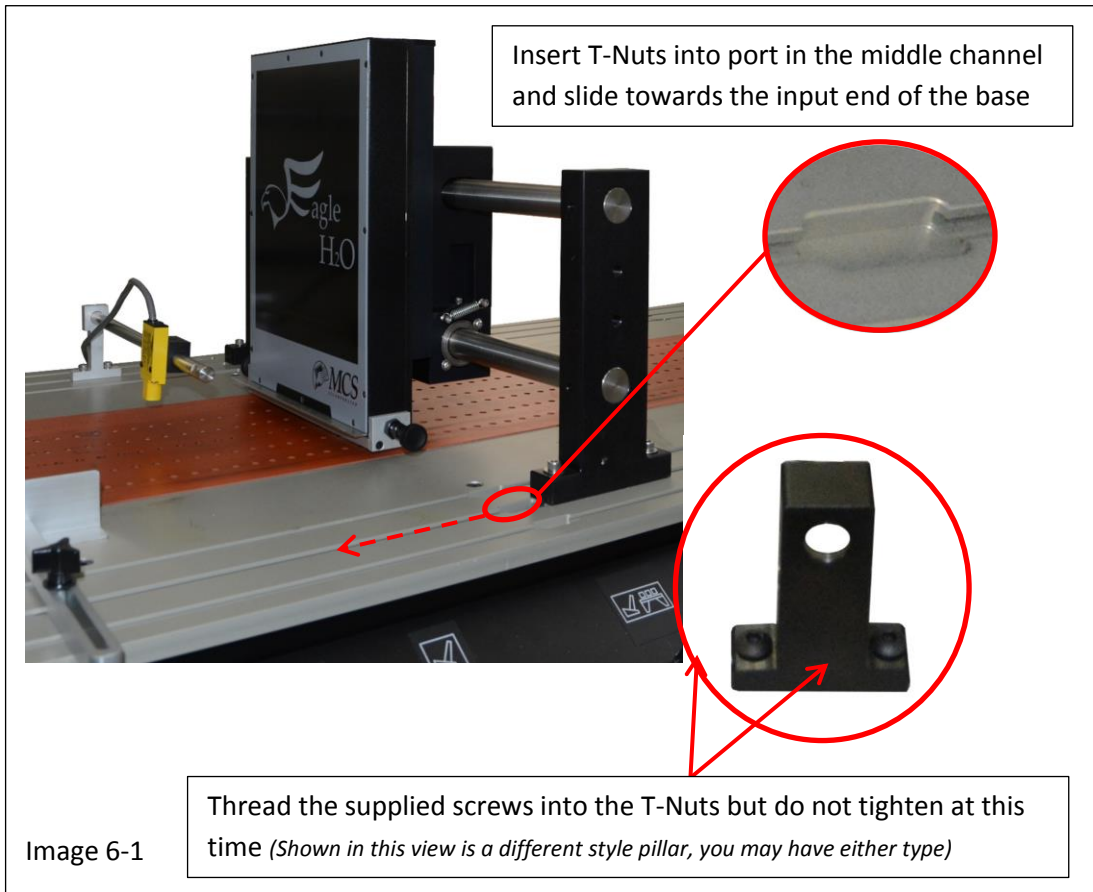
## Section Six - Sensor Installation

### Step 1

(The illustrations shown in this section are of the Eagle Print Head. The sensor mounting described in this section are identical for the Eagle AMS Print head)

Install the sensor pillars to the base in the following manner:

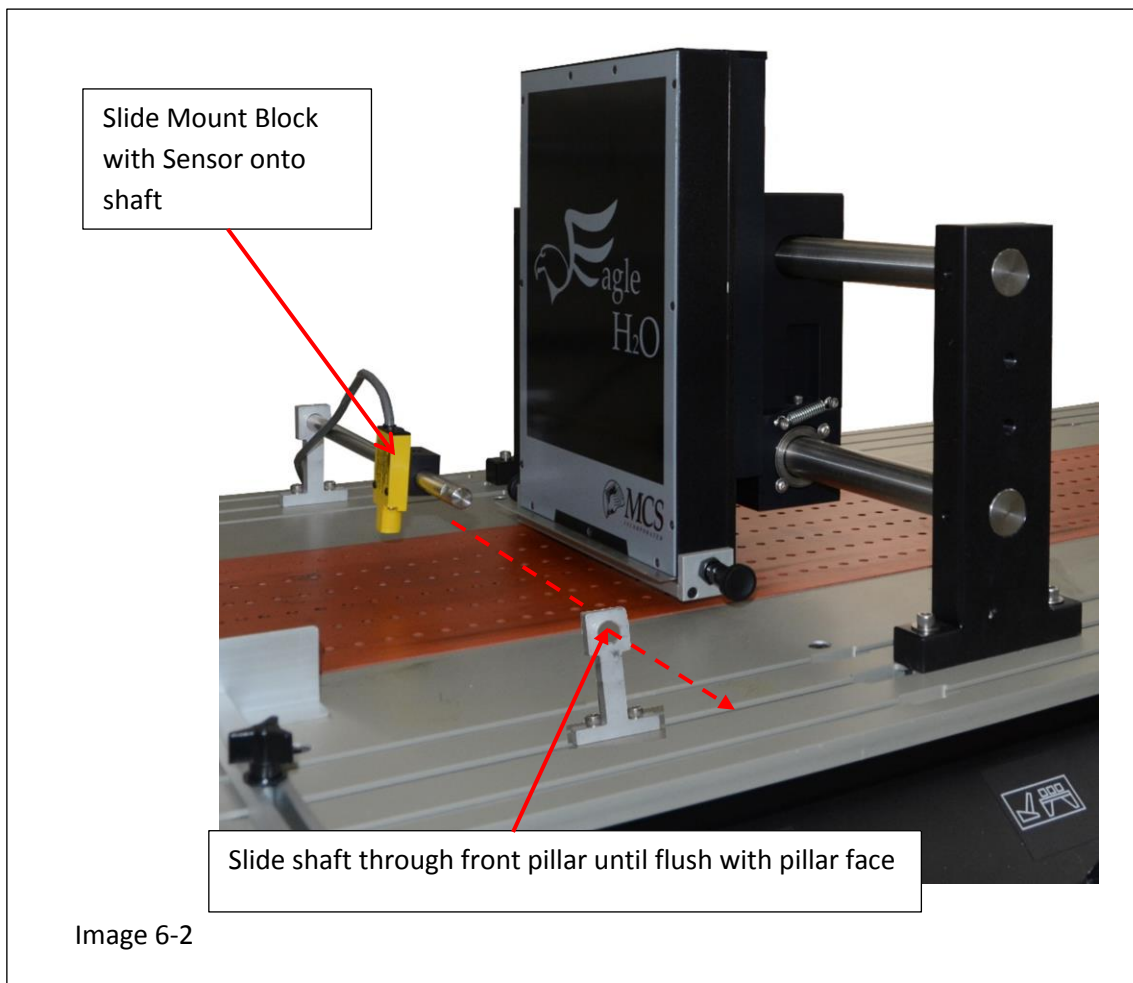
- A. Slide one of two T-Nuts into the middle front channel, move it towards the input end of the base well ahead of the Print Head, see image 6-1.
- B. Insert one of two supplied hex head Allen screws into the through hole in the base of the pillar and start the threading it into the t-nut. (Note: Do not tighten at this time)
- C. Slide the pillar towards the input end of the base to allow for the second of two t-nuts to be placed into the channel.
- D. Align the back through hole in the pillar with the t-nut and begin threading the second of two hex head Allen screws into the t-nut. (Note: Do not tighten at this time) refer to image 6-1
- E. To install the back Pillar, perform steps "A" through "D" at the back middle channel position, see image 6-1



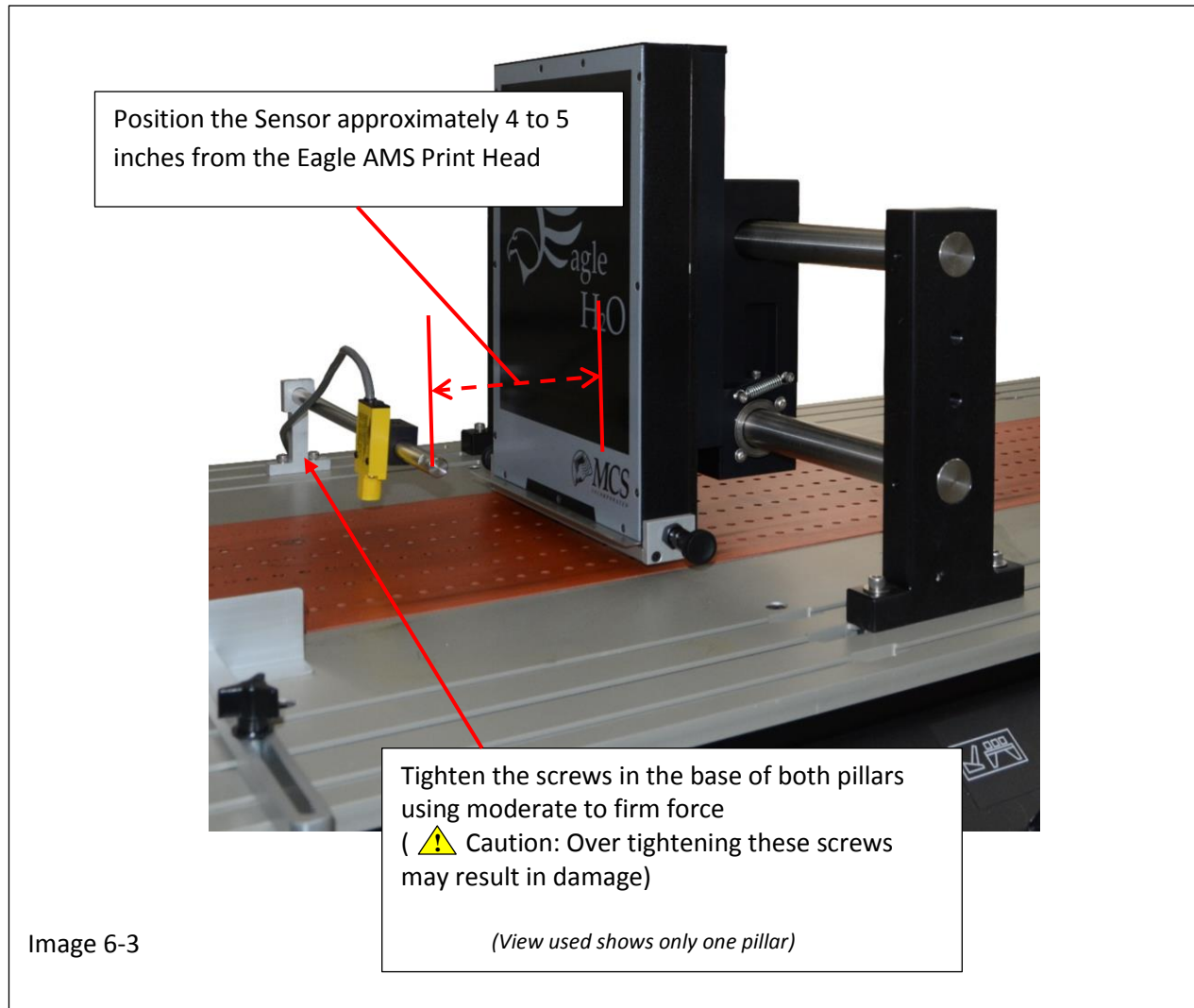
## Step 2

Install the Sensor Shaft by:

- A. Slide the shaft through the back pillar until the shaft is approximately half way through the pillar, see image 6-2
- B. Affix Sensor to Mount Block and slide Sensor and Mount Block onto shaft, see image 6-2
- C. Align the front pillar with the shaft and slide shaft through the front pillar until the shaft end is flush with the front face of the pillar.
- D. Tighten set screws in top of pillar to secure sensor shaft.



- E. Set the sensor position approximately 4 to 5 inches in front of the Print Head, see image 6-3
- F. Tighten the Pillar screws using moderate to firm force.  
( ⚠ Caution: Do not over tighten these screws. Over tightening the screws may result in damage to the t-nuts and mounting channels in the base transport deck)



A stylized, light blue eagle logo is positioned behind the text. The eagle's head is on the left, facing right, with its wings spread. The text 'Section Seven' is in a large, bold, dark blue serif font. Below it, 'Installing the Light Tree' is in a smaller, dark blue serif font. To the right of the eagle, the word 'agle' is written in a light blue serif font, and 'AMS' is written in a light blue serif font below it.

**Section Seven**  
Installing the Light Tree

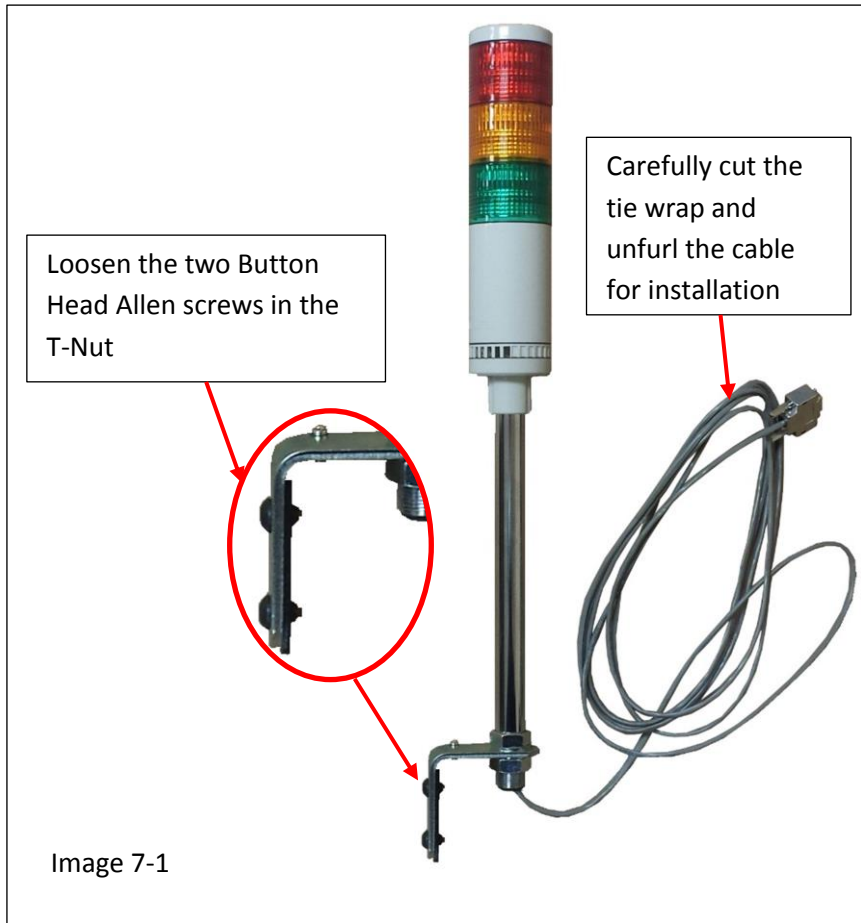
## Section Seven - Installing the Light Tree

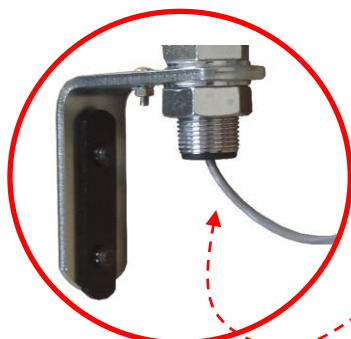
A three color Light Tree comes with the Eagle AMS Print System. The Light Tree can be set to display different color lights indicating the status of the machine while in operation. The actual color can be selected and saved as the system default.

Installing the Light Tree can be accomplished by performing the following:

### Step 1

- A. Carefully cut the tie wrap holding the cable to the light post.
- B. Loosen the two button head Allen screws at the base of the Light Tree, see image 7-1. (Note: Do not remove the screws)
- C. Carefully slide the T-Nut, loosened in Step 1-B, into one of the open slots of the extruded aluminum frame adjacent to the Ink Supply Controller and tighten the button head screws.  
( ⚠ Caution: Do not over tighten the screws. Over tightening the screws may result in damage to the extruded aluminum frame.)
- D. Once the Light Tree is secure, route the cable along the frame and connect the plug to the receptacle marked "Light Tree" on the Raptor Control Box. (See Section 4, Item 18 of Image 4-1)





Slide the "Loosened" T-Nut into the extruded frame and tighten the two button head Allen Screws

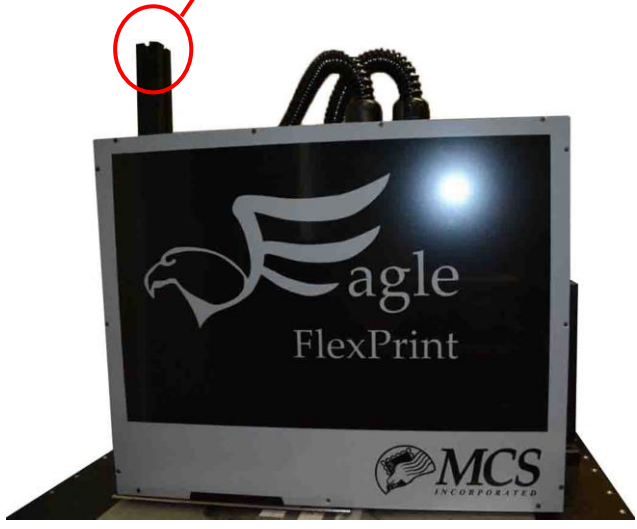
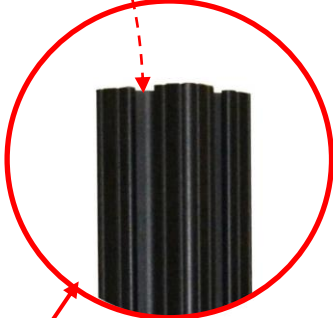


Image 7-2

## Setting Up the Light Tree

Setting the operating parameters for the Light Tree can be accomplished in the following manner:

### Step 1

Once the system is on line, access the Light Tree Setup Menu by:

- A. In the Main screen go to File > System Setup
- B. In the System Setup menu press the "Light Tree Setup" button, see image 7-1

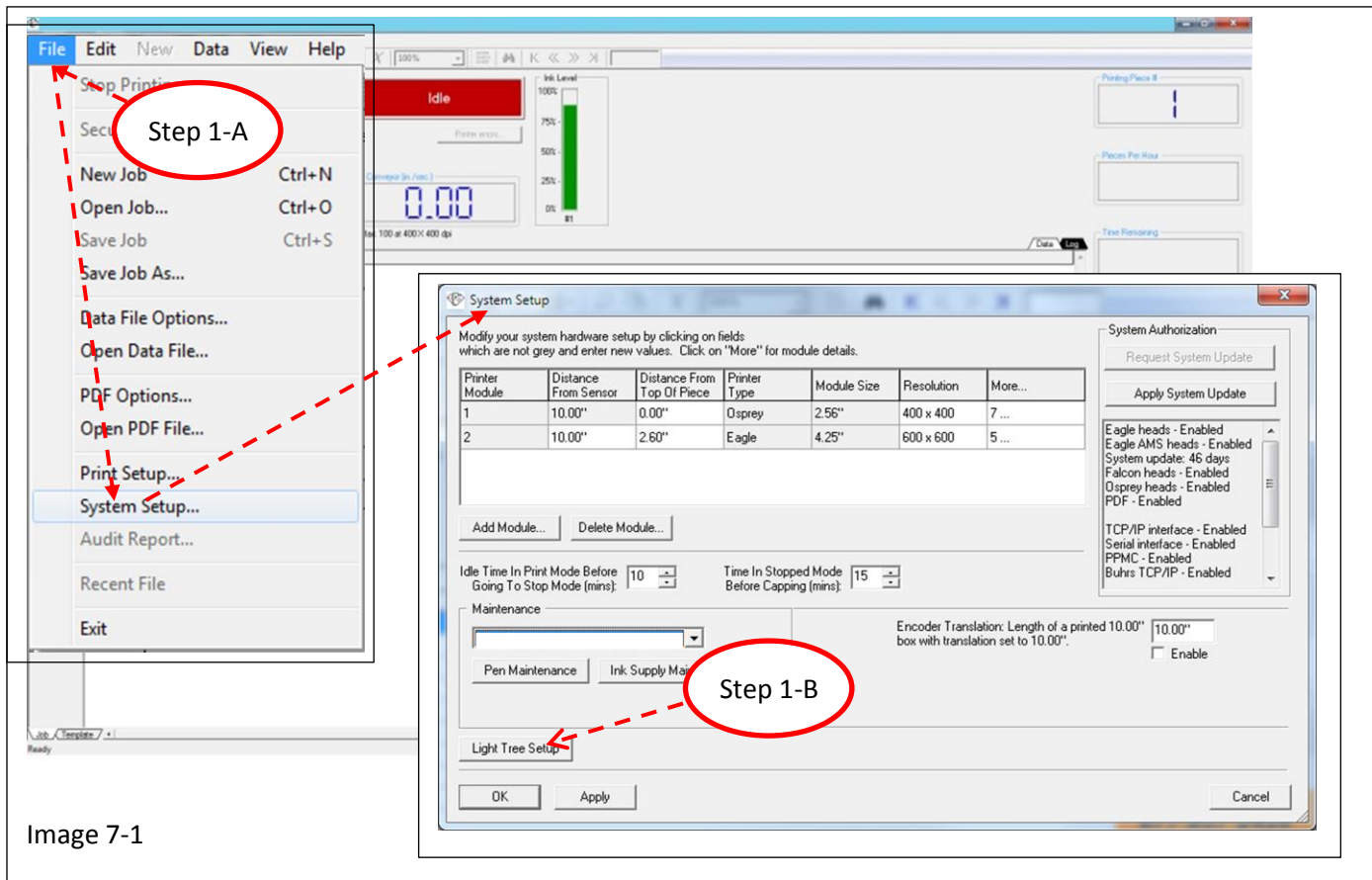


Image 7-1



The Light Tree Menu accommodates five (5) Machine functions, three (3) Print Features and six (6) Input Signal Verifications.

## Step 2

To set up the Light Tree perform the following:

- A. Check the topic box  to the left of the feature or function you want a light to signal for, see image 7-2.
- B. Select the color light you wish to set for the function or feature chosen, see image 7-2.
- C. Choose the state you want the light to appear for each feature of function selected, On, Off or Flashing. If Flashing is selected you must select the number of Flashes you want to occur for that feature, see image 7-2
- D. Press the “OK” button when finished to save your selections.

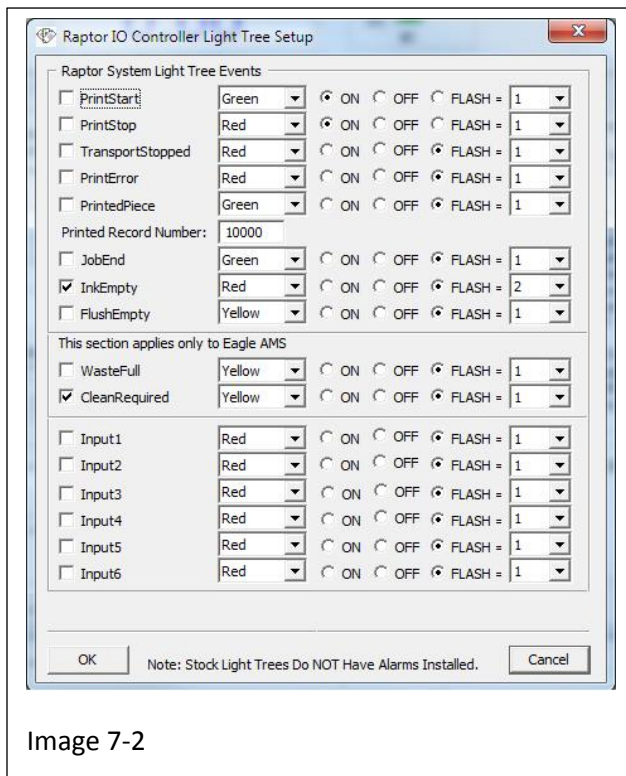


Image 7-2

### **Understanding the logic of the Light Tree Setup:**

- Choosing the “On” light functions will produce a solid continuous light while the selected feature is engaged.
- Choosing the “Off” light functions will stop a solid continuous light while the selected feature occurs.  
[Example: I have the selected the Green Light to come (On) at “Print Start” and also selected the Green Light to go (Off) at “Print Stop”]
- Choosing the Flash function will produce a light that flashes only the amount of times selected in the menu

### **Light Conflicts:**

- In the event the same color light is selected for two different features the “Flashing Light” or the light set to the “Highest” number of flashes will prevail  
  
[Example: I have selected the Red light to come (On) when the “Transporter is Stopped” and also selected the Red light to (Flash) 4 times for a “Print Error”. In the event the Transporter Stops at the same time a Print Error occurred, the Red light will Flash 4 times then go out. The transporter single will not come on.]
- In the event of the same color light has been selected to “Flash” for two different features, the feature selected with the highest number of flashes will prevail.  
  
[Example: I have selected the Red (Flash) 4 times when the “Job Ended” and also selected the Red light to (Flash) 9 times for “Ink Empty”. The Red light will simply flash for the feature set with the highest number of flashes.]

# **Section Eight**



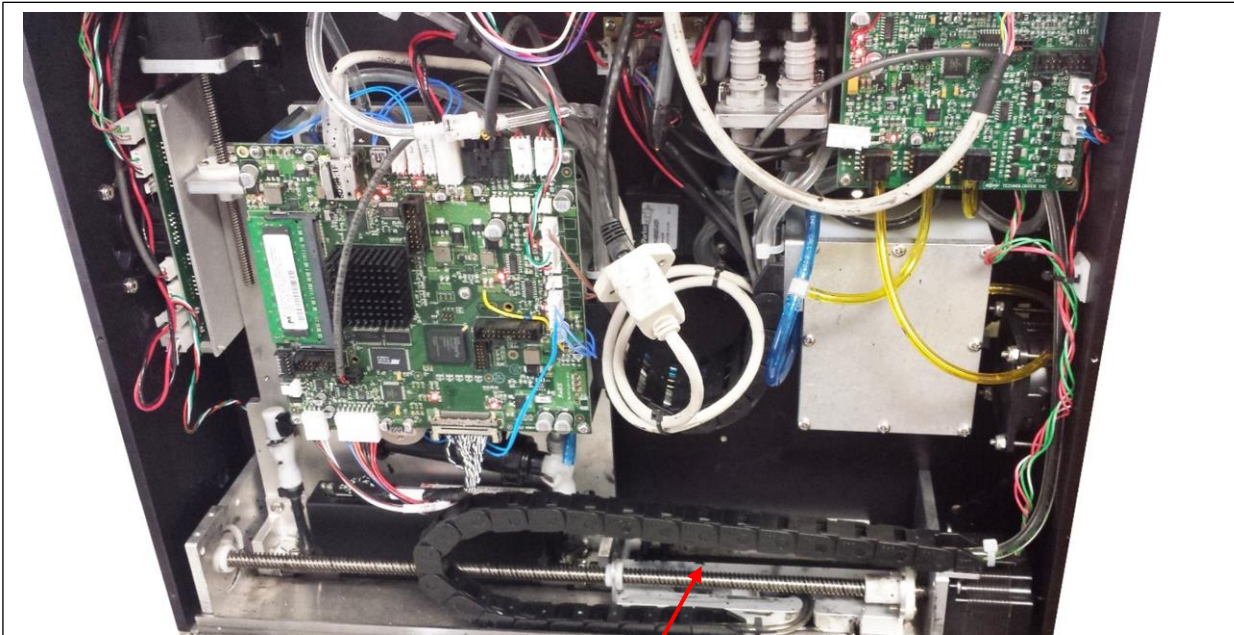
**agle**  
**Print Head Maintenance**

**AMS**

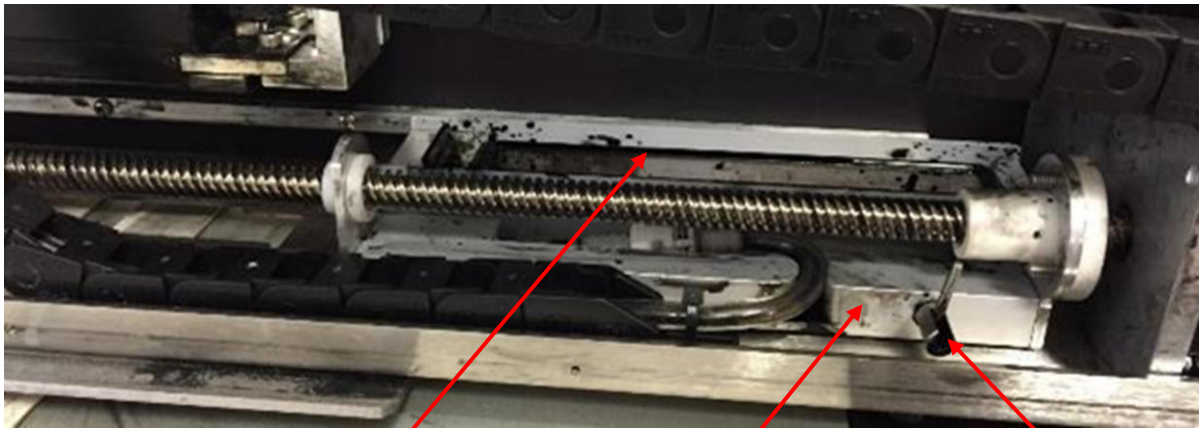
## Eagle AMS Maintenance

The Eagle AMS Print Head was designed with a completely automated cleaning feature that can be setup to perform at times that have been predetermined by the operator. This system has a Purge Bottle built in the main cabinet as well as Flush and Ink bottles. There is also an automatic wiper and capping station built into the Eagle AMS Print Head.

Operator, or Service interaction will be required to change out the Ink and Flush solution when empty and also to empty the Purge bottle when full. All of these containers have automated detectors on them so the system will alert the Operator when needed.



Capping Station Detail

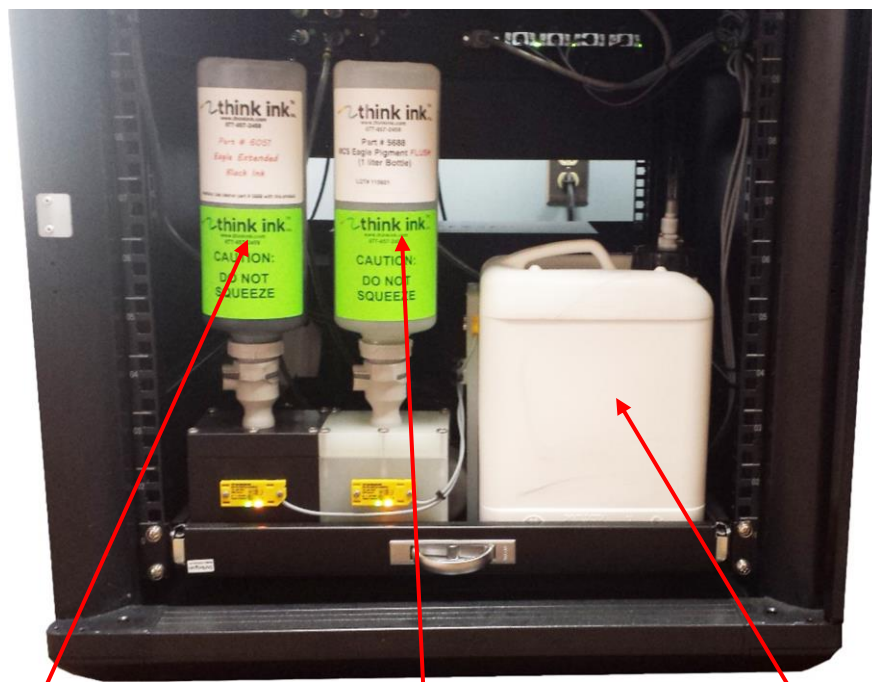


Capping Station

Sled

Locking Handle

Image 0-2



Ink Bottle

Flush Bottle

Purge Bottle

Image 0-2

## Setting Time Defaults

The Raptor AMS or “Automated Maintenance System” is by design a self-cleaning and self-maintaining system as the name implies. The Ink bottle, Flush bottle and Purge bottle are all in line and active inside the system control cabinet.

The Print Head Purging or “Cleaning” as it is referred to on this system will occur automatically at timed intervals you set and save to the system default. From that point on the system will automatically clean the Pens at the predetermined times. This system also allows you to manually interact and initiate a clean cycle at any time then automatically return to the beginning of the default time cycle.

To set the defaults you want your system to have, perform the following:

### Step 1

Run the Raptor 6 Software and set the purge time by performing the following:

- Bring the Raptor 6 Software on line. (Auto Clean Time can be set in the “Eagle AMS Pen Maintenance Menu”)
- In the Main Menu press File > System Setup, to open the System Setup Menu see image 1-1
- In the “Maintenance” section of the System Setup Menu, Select “Eagle AMS” see image 1-1
- Press “Pen Maintenance” to open the maintenance menu shown in image 1-2

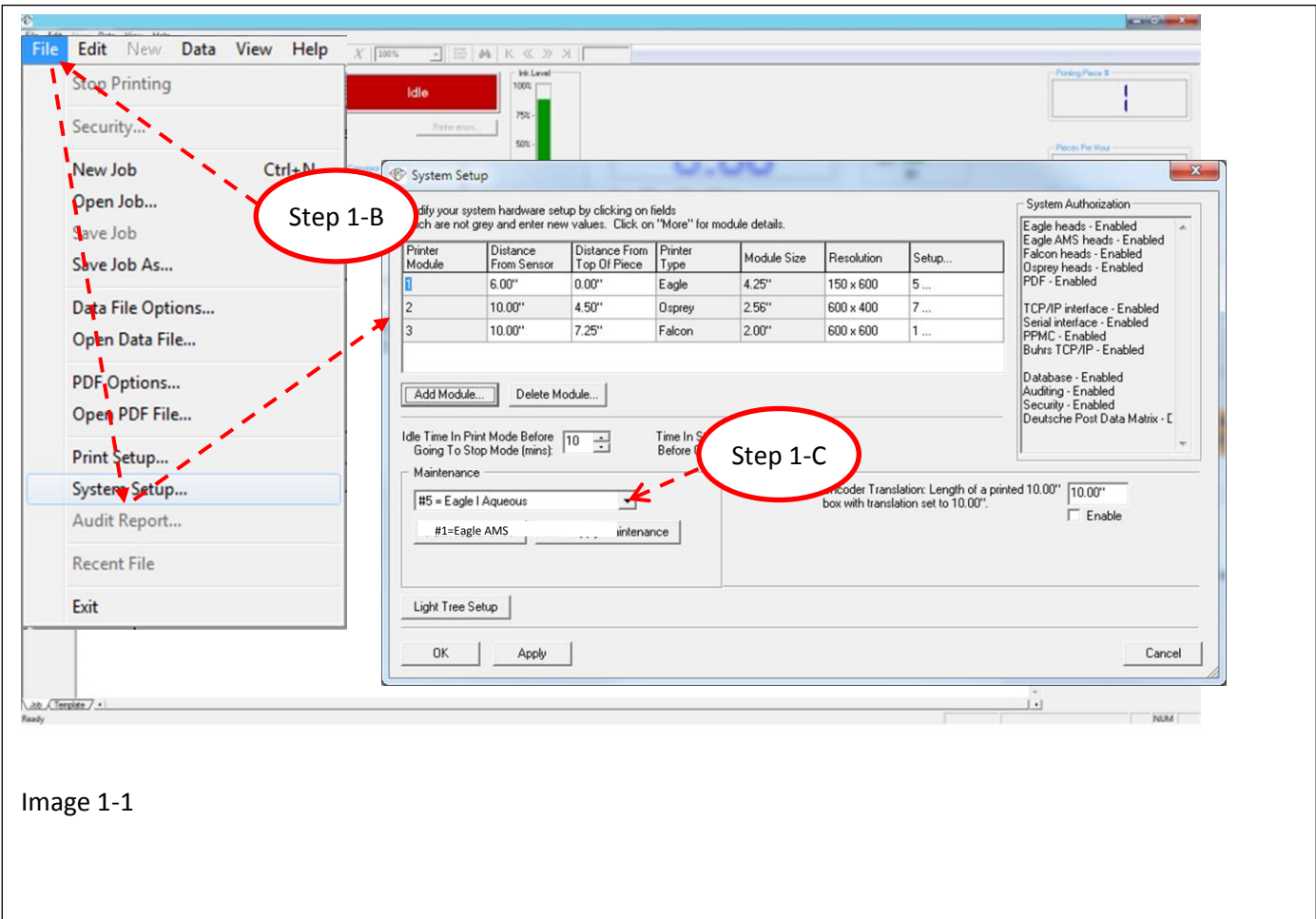
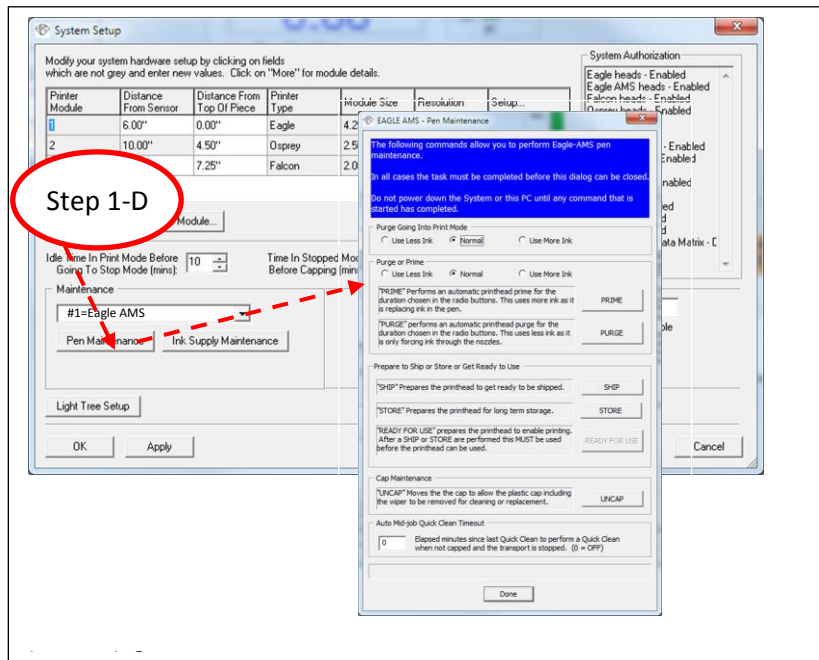
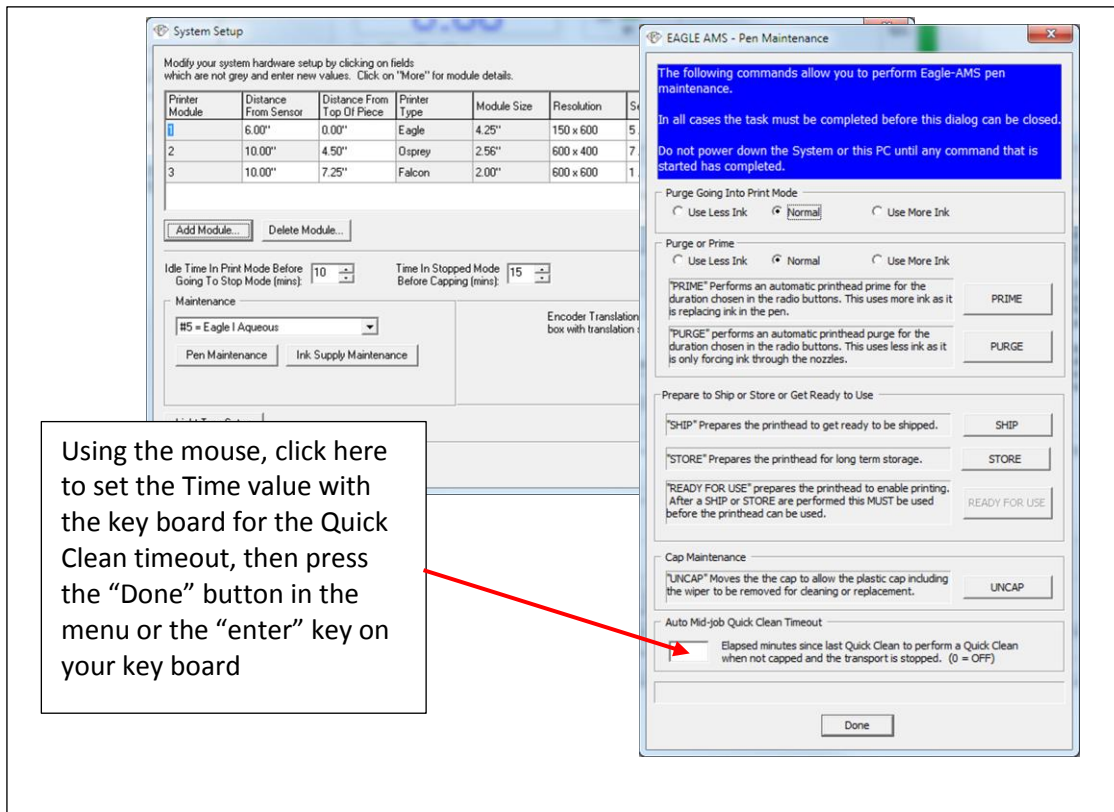


Image 1-1



- E. Set Quick Clean time in Minutes, the Default range is 10 to 600 minutes. In most cases a setting of 60 to 120 minutes is optimal. To set the time simply click on the “Auto Mid-job Quick Clean Timeout” box and type in the number of minutes you want the Clean cycle set, then press “enter” on the key board or the “Done” button on the Eagle AMS Pen Maintenance menu, see image 1-3. The system will not initiate a Quick Clean while printing, however once the time cycle has been met or exceeded the first time the systems stops printing a “Quick Clean” cycle will automatically begin.



## Setting Ink Volume

The amount of ink used in each Quick Clean Cycle can be selected from three (3) preset defaults found in the Eagle AMS Pen Maintenance menu. The climate and altitude your system is operating in should be considered when making this selection. To choose between the three (3) presets found in the Eagle Pen Maintenance Menu for the automated quick clean cycle go to the “Purge Going into Print Mode” section, place the cursor over the selected default you wish to choose and left click on it. To set the ink amount used for manual Purges and Primes go to the “Purge / Prime” section , place the cursor over the selected default you wish to choose and left click on it, see image 2-1

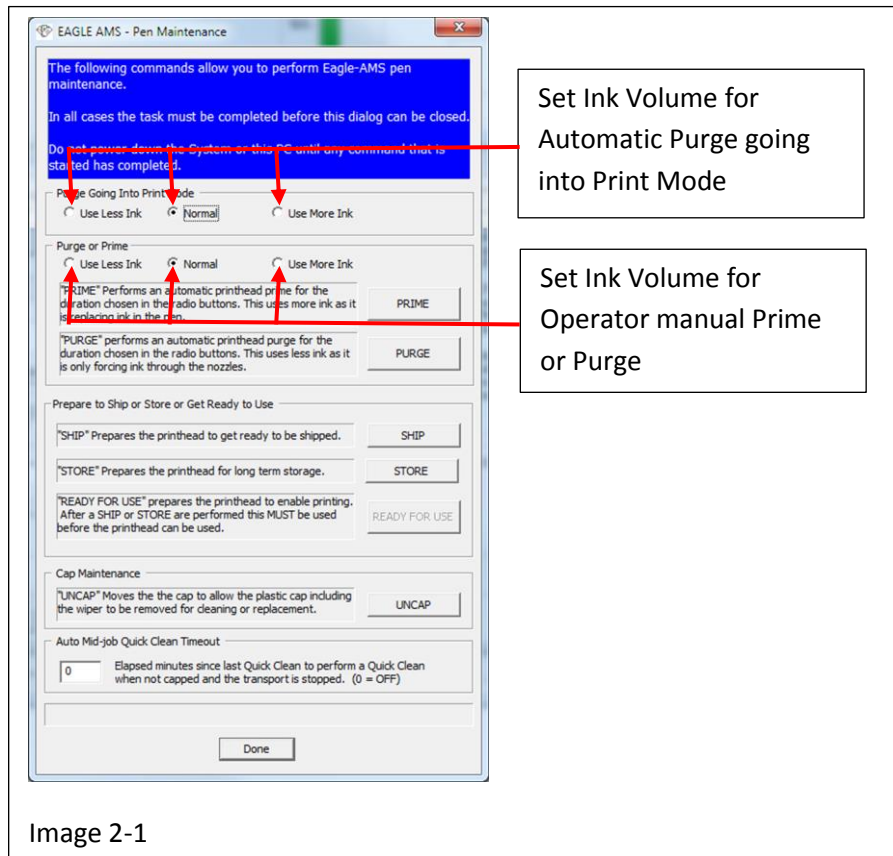


Image 2-1



## Cap Setting & Maintenance

The Pen Cap of the Eagle AMS operates automatically for wiping the pens after purging or priming as well as capping the pens when printing has stopped. The actual time delay for when the pens are automatically capped depends on the default setting you enter.

First a time setting to automatically recognize "Idle" time in Print Mode must be established before the system will go into "Stop Mode". Then an elapse time for the duration of Stop Mode must be entered before the automatic quick clean cycle will begin.

To enter these times perform the following:

### Step 1

Run the Raptor 6 Software and set the Cap time by:

- Bring the Raptor 6 Software on line. (Idle Time and Cap Time can be set for best performance in the "Eagle AMS System Menu")
- In the Main Menu press File > System Setup, to open the System Setup Menu see image 3-1
- In the "Idle Time In Print Mode" section of the System Setup Menu, set the time in minutes by pressing the Up / Down arrow buttons, see image 3-1
- In the "Time In Stopped Mode" section of the System Setup Menu, set the time in minutes by pressing the Up / Down arrow buttons, see image 3-1  
(Note: The factory set default time of 15 minutes for "Idle" time and 15 minutes for "Stopped" time is ideal for normal operation in most climates.)

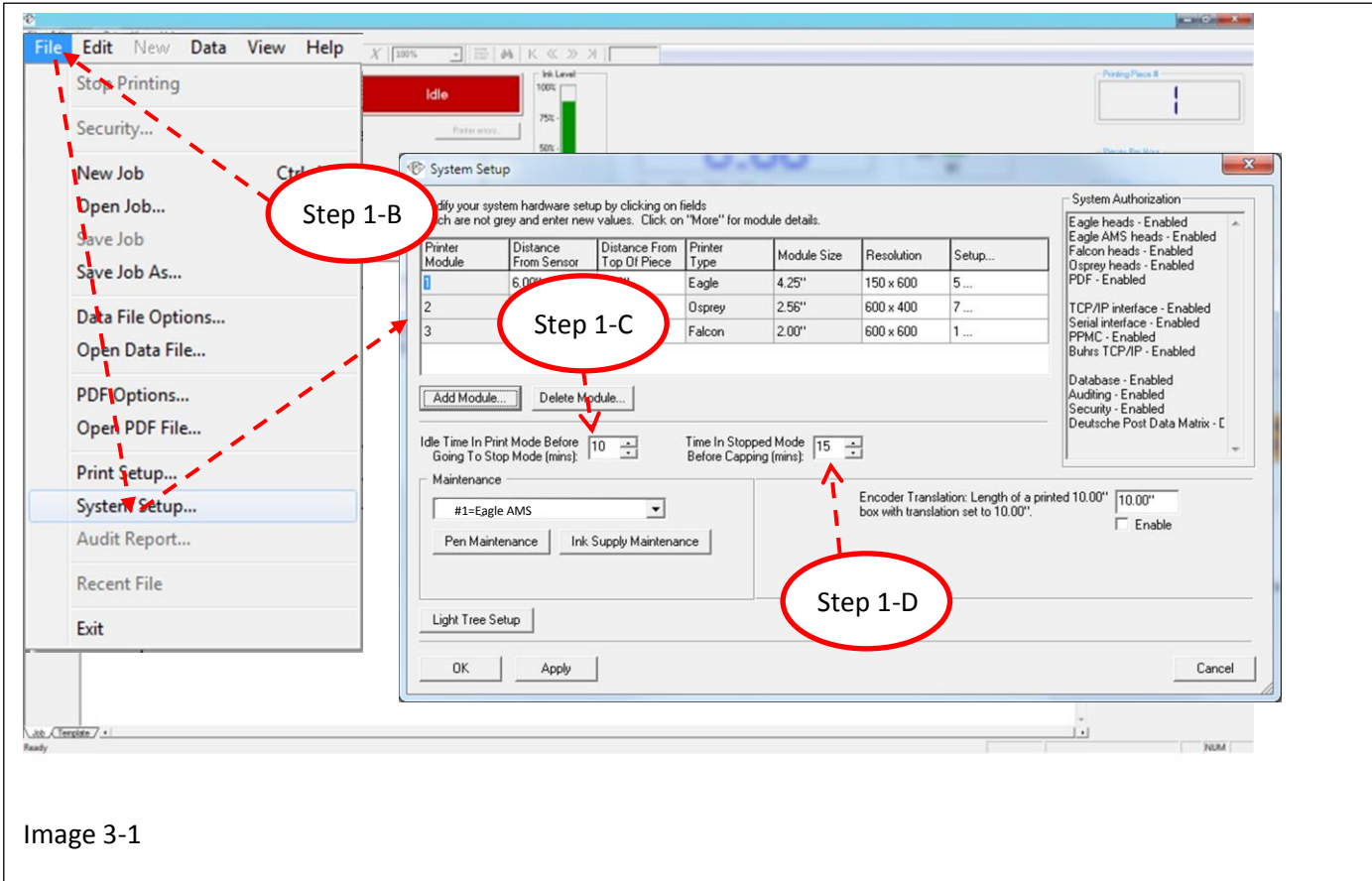
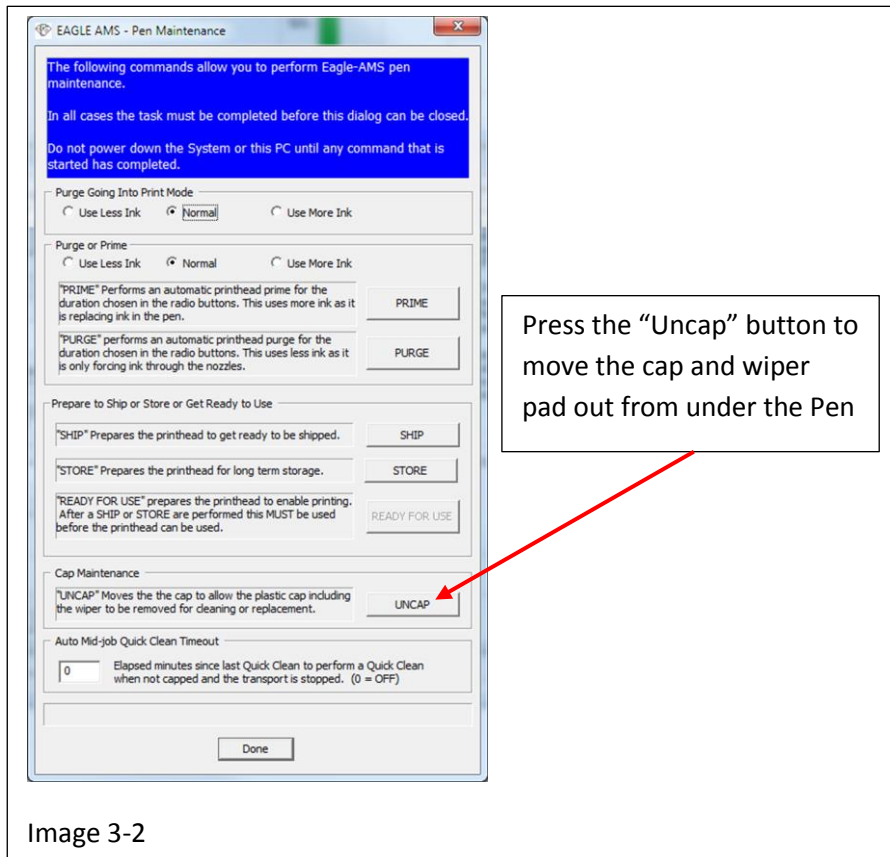


Image 3-1

When it becomes apparent, by diminished print quality, that the Capping Station needs to be replaced perform the following:

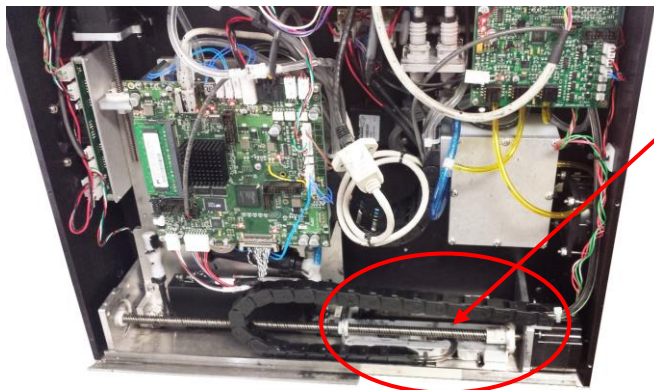
Step 1

- A. Run the Raptor 6 Software and open the Eagle AMS Pen Maintenance menu as discussed in Section One, Step 1 B through D.
- B. Press the “Uncap” button in the Pen Maintenance menu, see image 3-2. This will move the Capping Station to the far right.

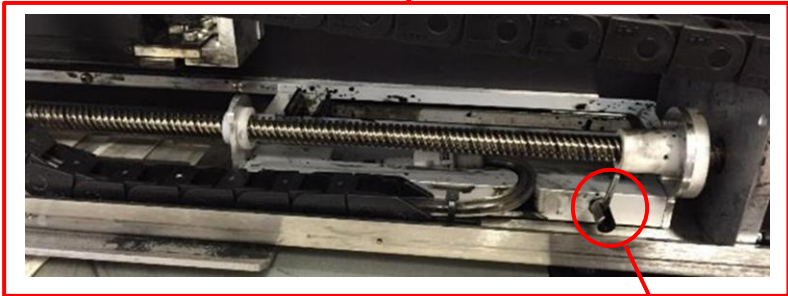


( ⚠ Caution: As a safety precaution, wear latex gloves at this time)

- C. Pull the lock out until it clears the collar and turn it counter clockwise to unlock the cap from the sled, see image 3-3.
- D. Gently lift the capping station out of the sled just enough to gain access to the hose connection see image 3-4.
- E. Disconnect the “Purge” hose by turning the fitting counter clockwise while supporting the elbow side of the connection on the cap, see image 3-5
- F. Once the old capping station is removed the excess ink can be cleaned out of the sled using Isopropyl Alcohol or Denatured Alcohol, see image 3-6.



Pressing the "Uncap" Button as indicated in Step 1-B, will move the sled to the far right position



Pull the Lock Handel out just past the collar and turn it counter clockwise to un-lock

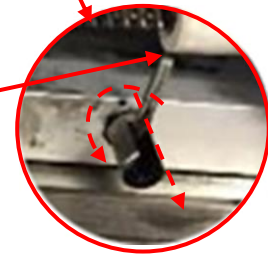
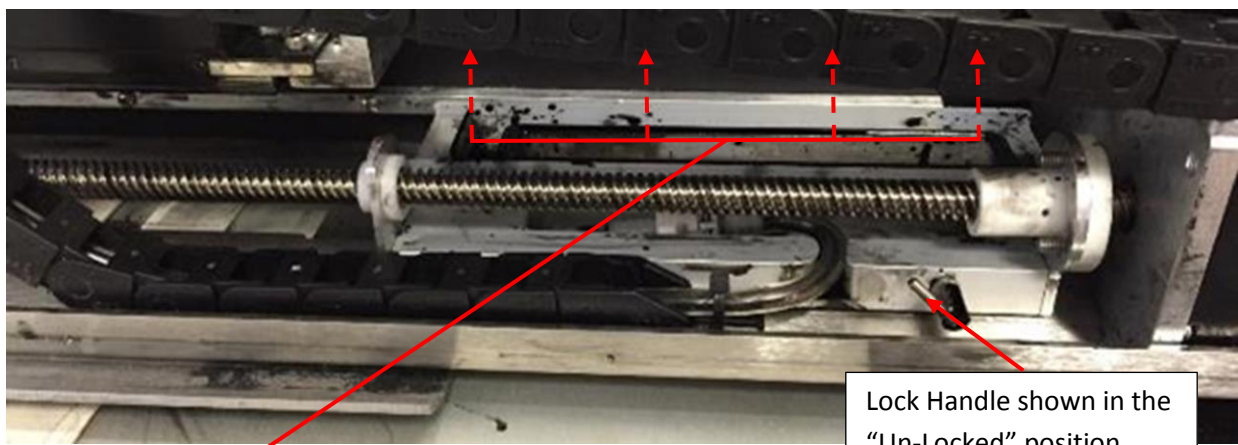


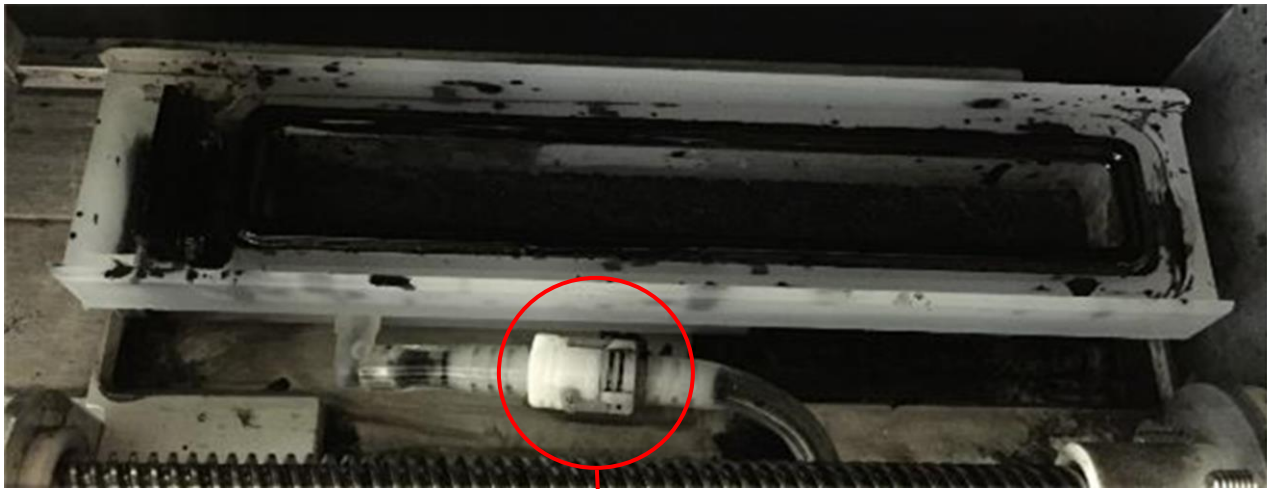
Image 3-3



Gently lift the Capping Station out of the Sled just enough to gain access to the hose fitting

Lock Handle shown in the "Un-Locked" position

Image 3-4

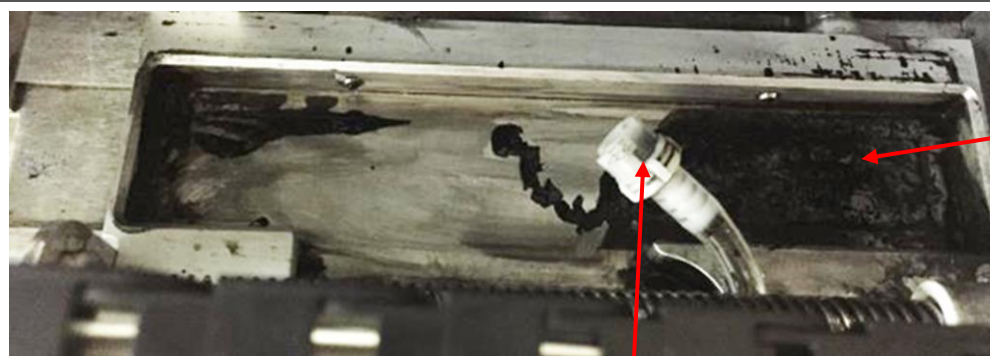


Hold and support the fitting on the "Elbow" side of the connection

Turn the lock side of the Purge hose fitting counter clockwise and pull the connection gently to disconnect it.

**(Note: Wipe any access ink off the Pure hose fitting in preparation for installing the new Capping Station)**

Image 3-5



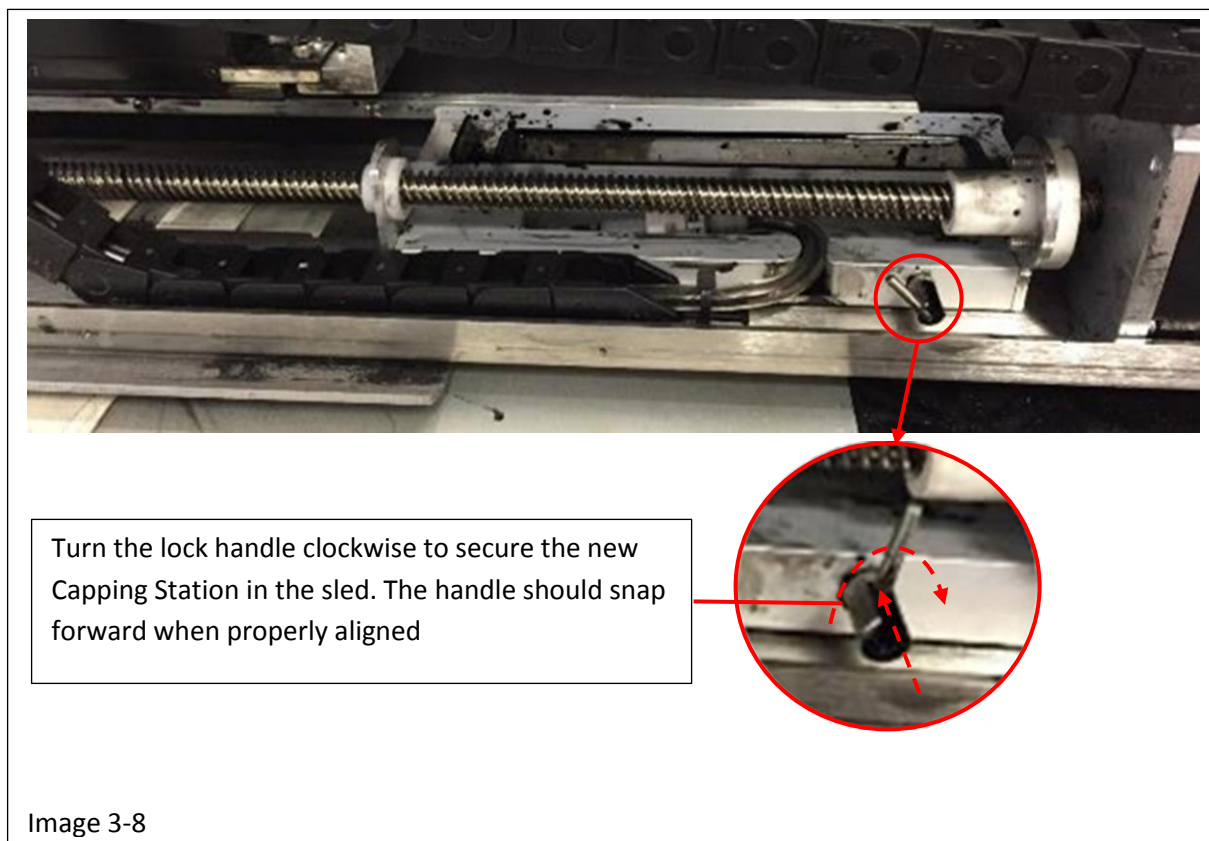
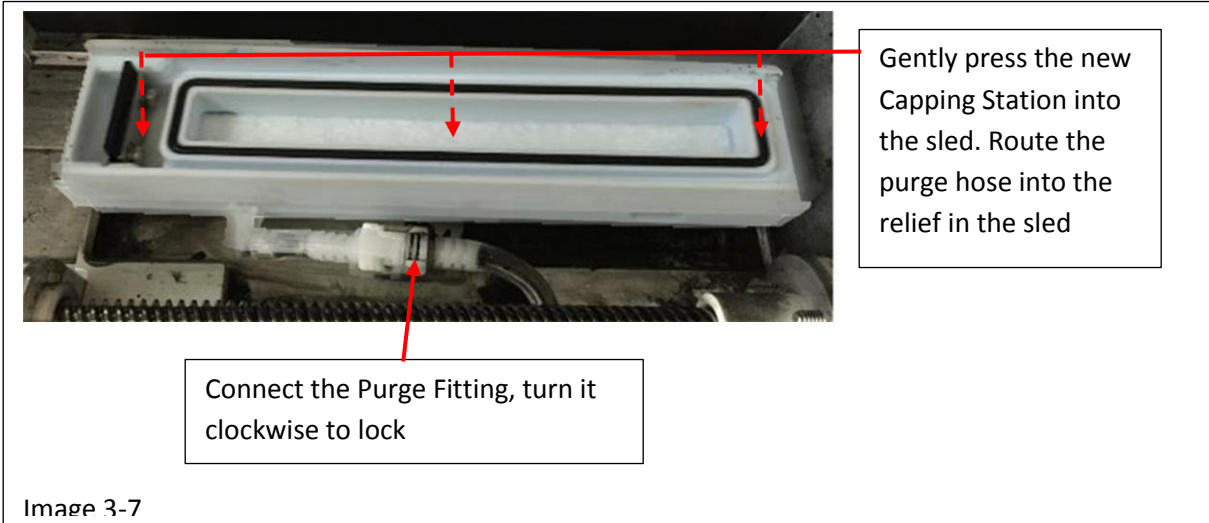
Clean out access ink before installing the new Capping Station

Image 3-6

Clean out old ink from the fitting to ensure a good seal to the new Capping Station

Install the new Capping Station in the reverse order the old one was removed.

- A. Connect the Capping Station Purge Fitting the Purge Hose Fitting. Make sure the hose is routed under the screw rod and pressed firmly into the relief in the sled, see image 3-7.
- B. Press the new Capping Station into the sled and turn the locking handle clockwise to secure it, see image 3-8.



## Eagle AMS Status Notification

The Eagle AMS Print System will present different notifications indicating the print head status while in Quick Clean Mode as well as warnings. These are as follows:

Image 4-1 depicts an error warning box indicating to “Stop Printing” before Exiting Software

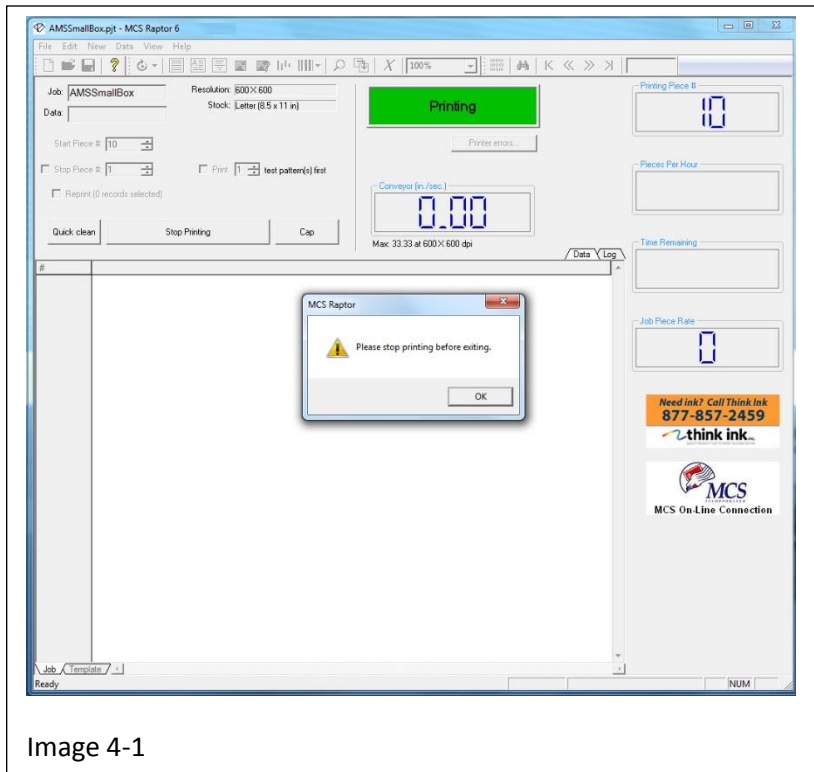


Image 4-1

Image 4-2 depicts Cleaning for an Operator Initiated Quick Clean command.

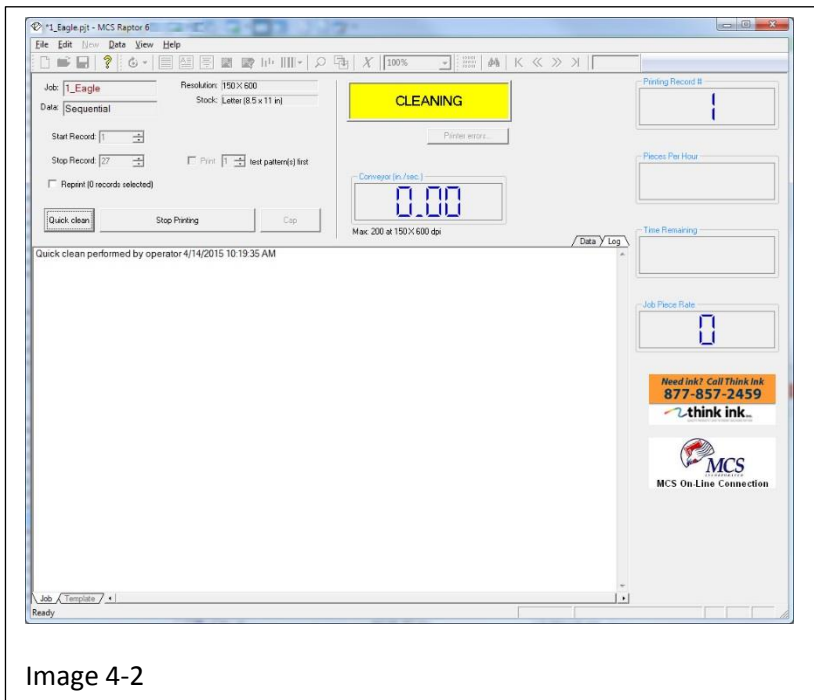


Image 4-2

Image 4-3 depicts the Eagle AMS is actively Capping the print head and warns “Do Not Turn Off Power”

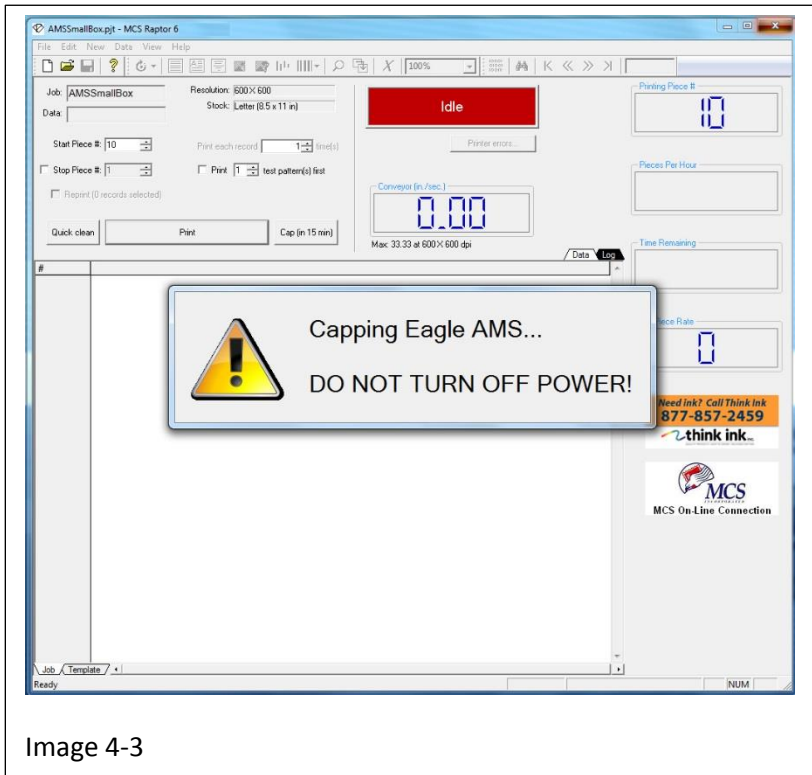


Image 4-3

Image 4-4 depicts the Eagle AMS print head is actively “Capping”

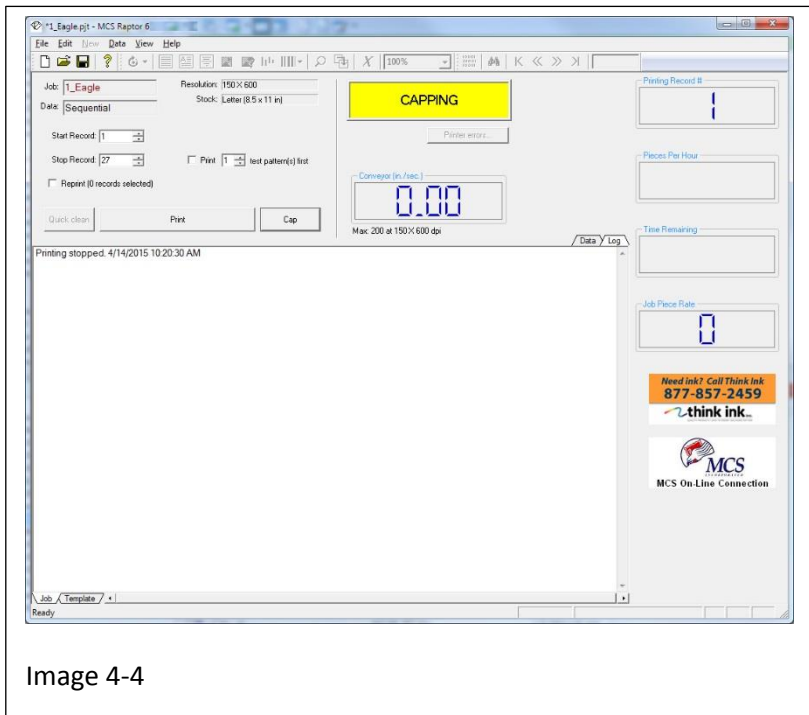


Image 4-4

Image 4-5 depicts an operator initiated “Quick Clean” command while a piece was under the print head

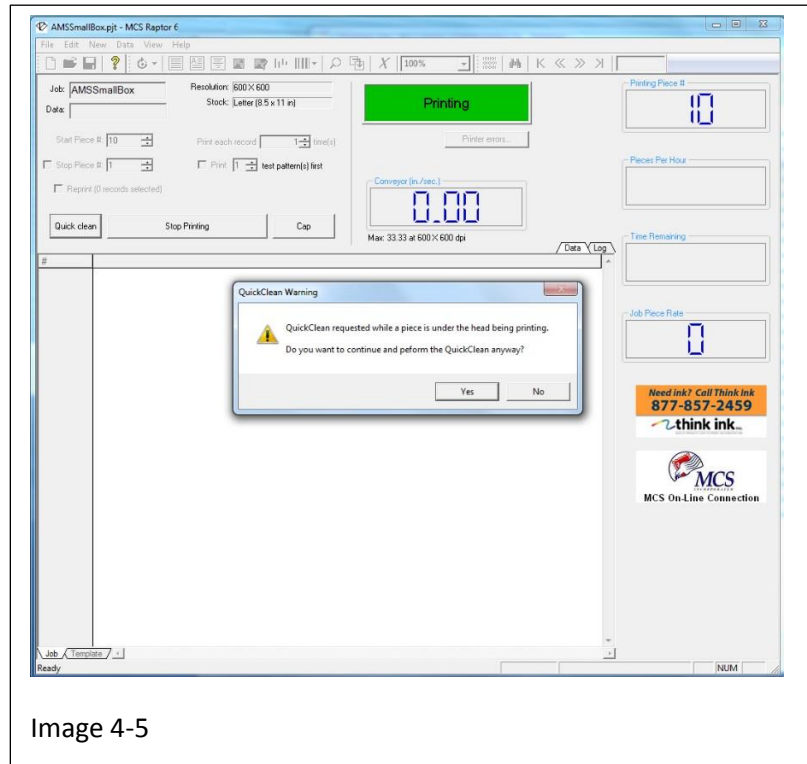
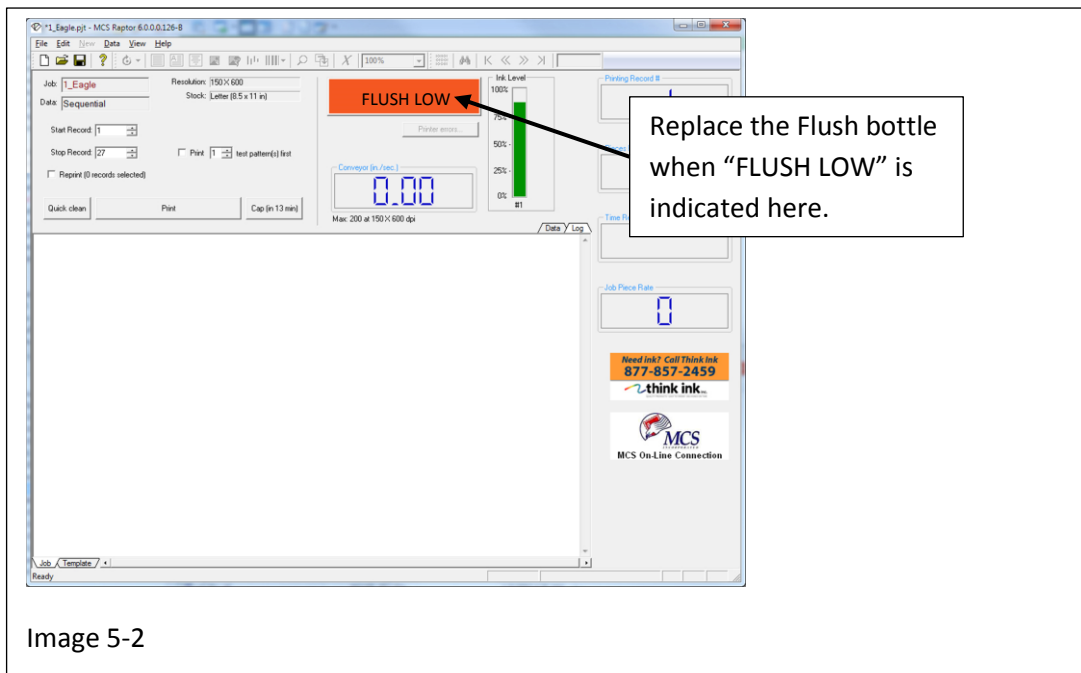
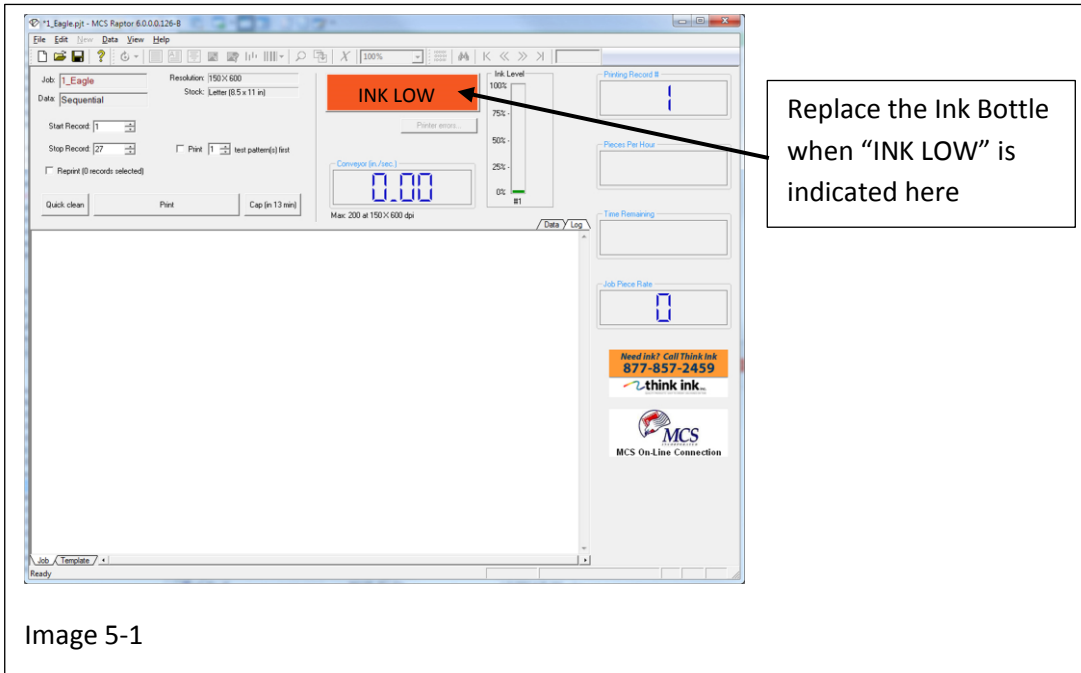


Image 4-5



## Installing Ink & Flush Bottle

The system will indicate the level of ink in the main screen as shown in image 5-1. The system will also indicate when it's time to replace the Flush Bottle



To replace the ink bottle and / or Flush bottle when indicated by the system perform the following:

Step 1

- A. With the system in "Idle" mode open the door to the Main Control cabinet.
- B. Press the retaining lock at the pump coupling, see image 5-3.
- C. While the retaining lock is pressed lift up the empty bottle and remove it from the cabinet.  
( ⚠ Caution: Do not squeeze the empty bottle while removing it. Small amounts of fluid may still be present at the nozzle that could drip out into the cabinet.)

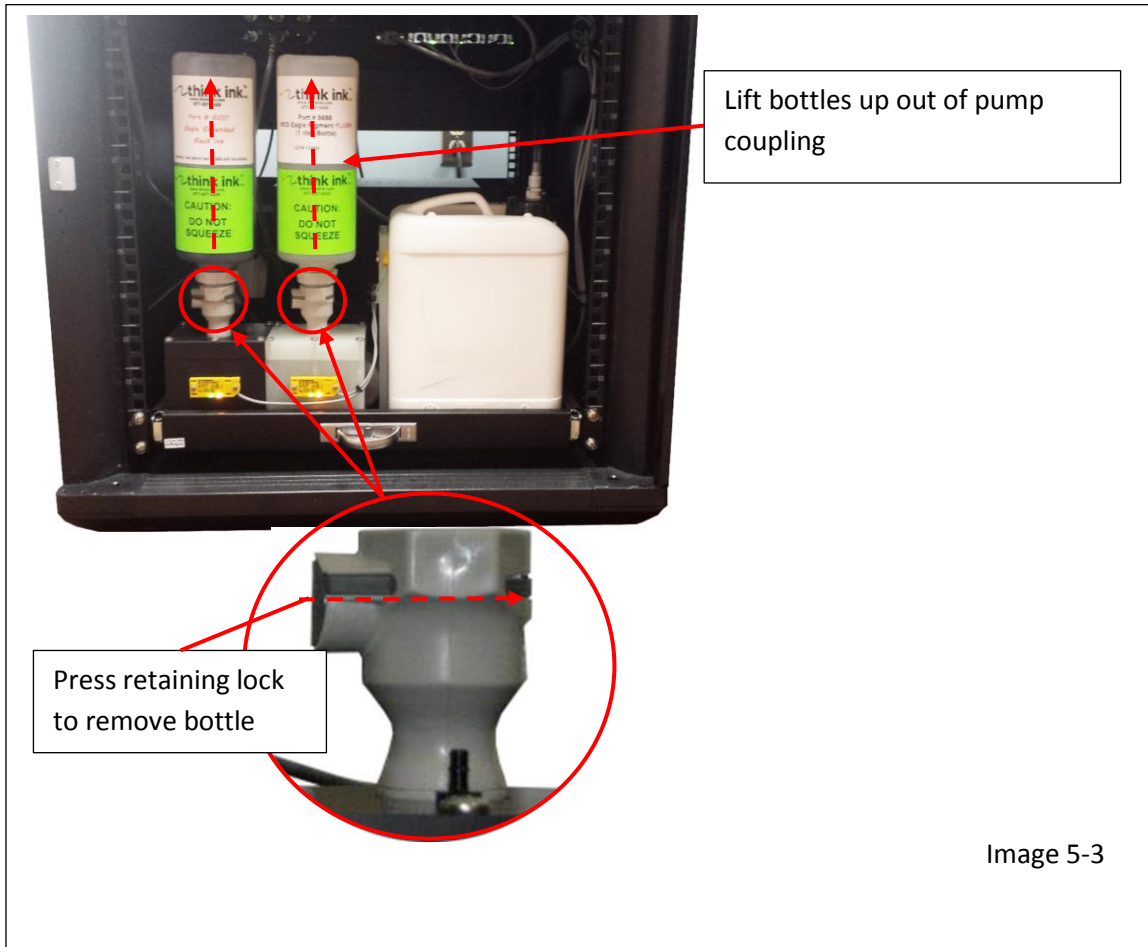


Image 5-3



Press the retaining lock and insert the Ink / Flush Bottle while the retaining lock is open. It will return to the lock position automatically when the new bottle is properly seated

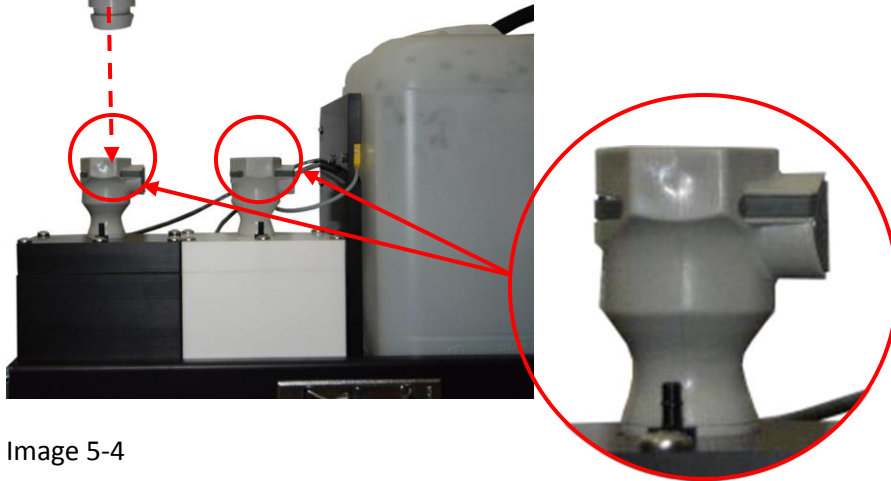
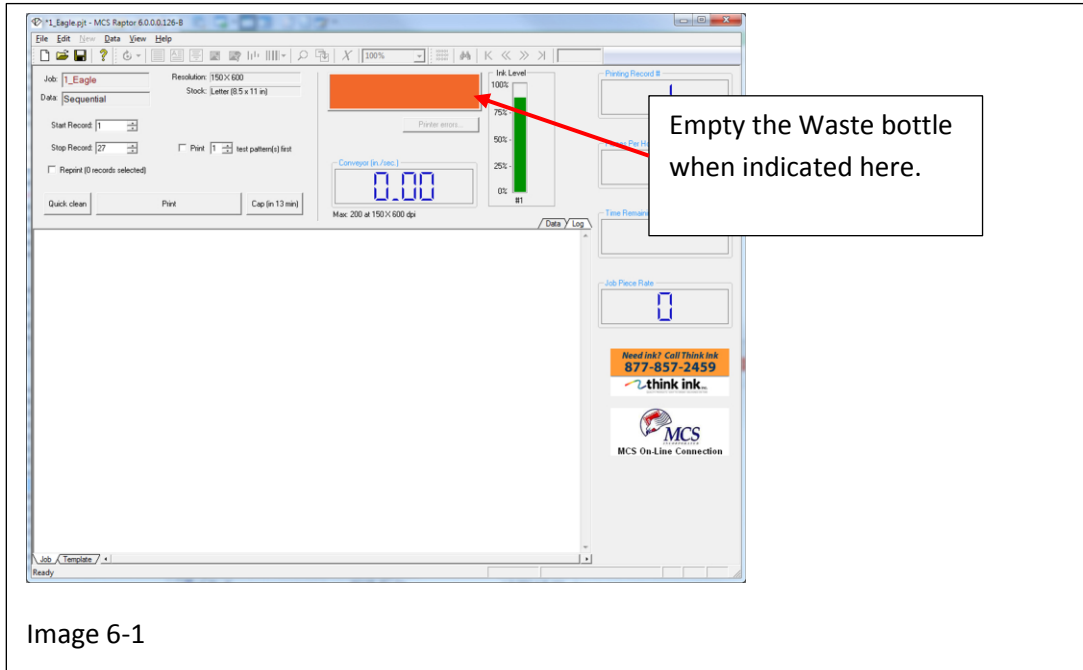


Image 5-4

## Emptying the Waste Bottle

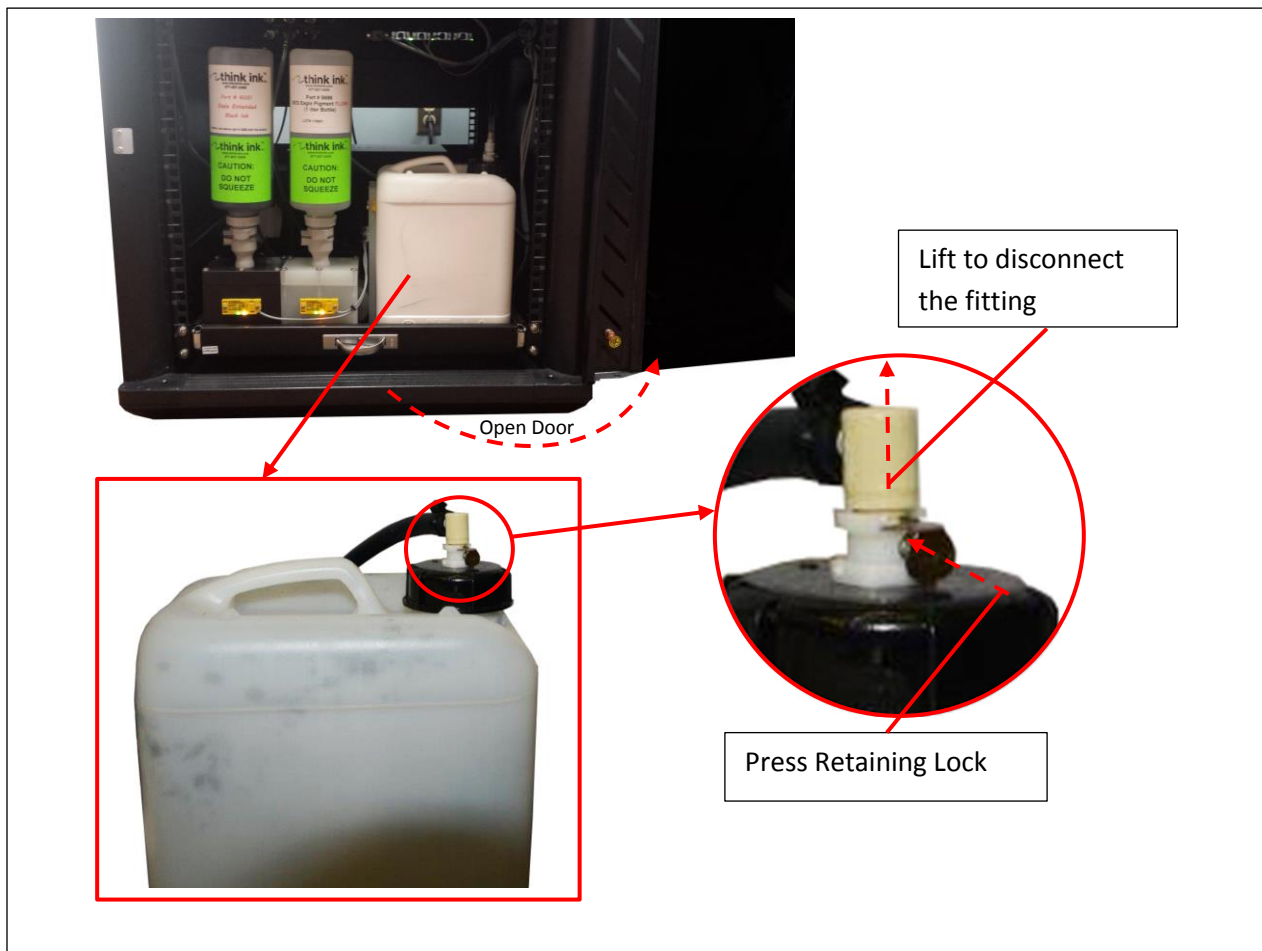
The Waste Bottle is monitored by sensors. The Eagle AMS system will display an indication on the main screen when the container is full, see image 6-1

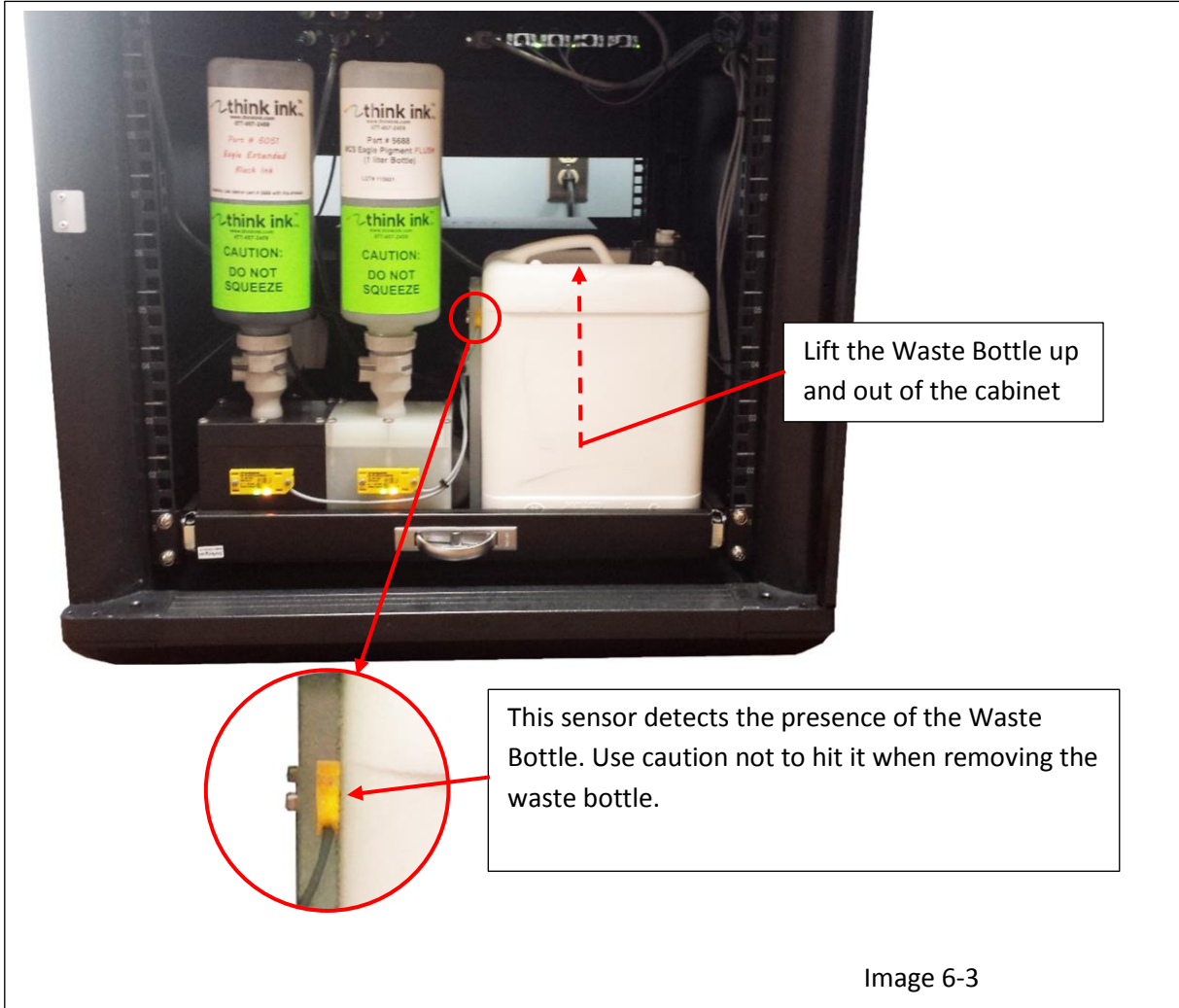


To empty the Waste Bottle perform the following:

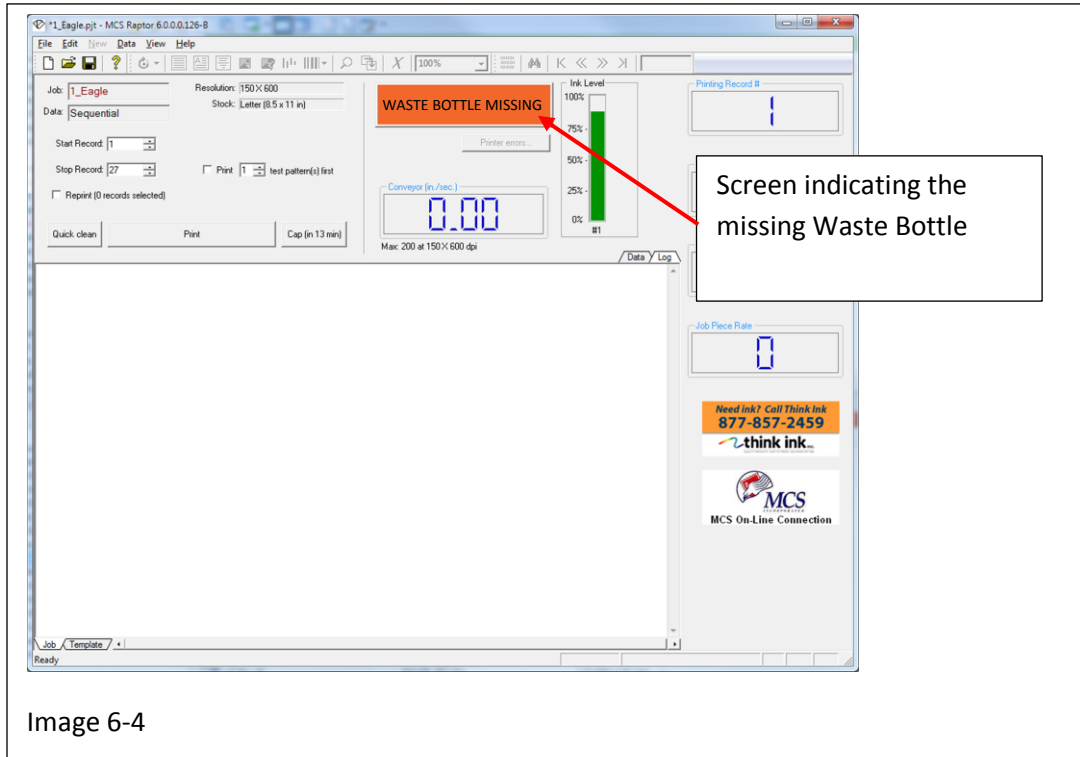
### Step 1

- A. With the machine in "Idle" mode, open the door of the Control Cabinet.
- B. Disconnect the drain hose by pressing the retaining lock to release the hose fitting, see image 6-2. (Note: Fitting style may vary from straight to right angle. Both styles are shown in this publication)
- C. Position the drain hose out of the way. (Note: Place a Kimwipe around the fitting once removed to contain any drips that may occur)
- D. Lift the Waste Bottle out of the cabinet and empty it.





Once the Waste bottle is out of the cabinet, the sensor, depicted in image 6-3 will no longer detect the waste bottle. The Missing Waste Bottle status will appear on the Main screen as shown in image 6-4.



Once the Waste Bottle has been emptied and returned to the carriage in the control cabinet, the sensor will once again detect the presence of the Waste Bottle and the status display will return to "Idle"



*End*