Kodak

Magnus 800 Platesetter

Installation Guide
English

Internal 731-00584H-EN Rev A

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Introduction

The *Kodak Magnus 800 Platesetter Installation Guide* describes the process of unpacking and installing a Kodak® Magnus™ 800 platesetter at a customer site. Before unpacking and installing the platesetter, confirm that the site is ready according to the site preparation guidelines.

Tools Required

The following tools are required to install the Magnus 800 platesetter:

- Personal tools and jig kit (516-00021A)
- Updated service dongle
- 17-mm wrench
- 10-mm hex bit
- 4-mm hex key
- Loctite® 242 adhesive
- Level
- TH3 crane kit (518-02696A). This kit is only for use with Z-speed platesetters.

Unpacking the Magnus 800 Platesetter

Handle all packing materials with care. These materials will be used again if you need to transport the platesetter in the future.

WARNING: **Before unpacking the platesetter, check that the shipping container is undamaged. Do not proceed with the unpacking if the container is damaged in any way, and notify the shipping agent immediately. The shipping agent's label is located on the shipping carton.**

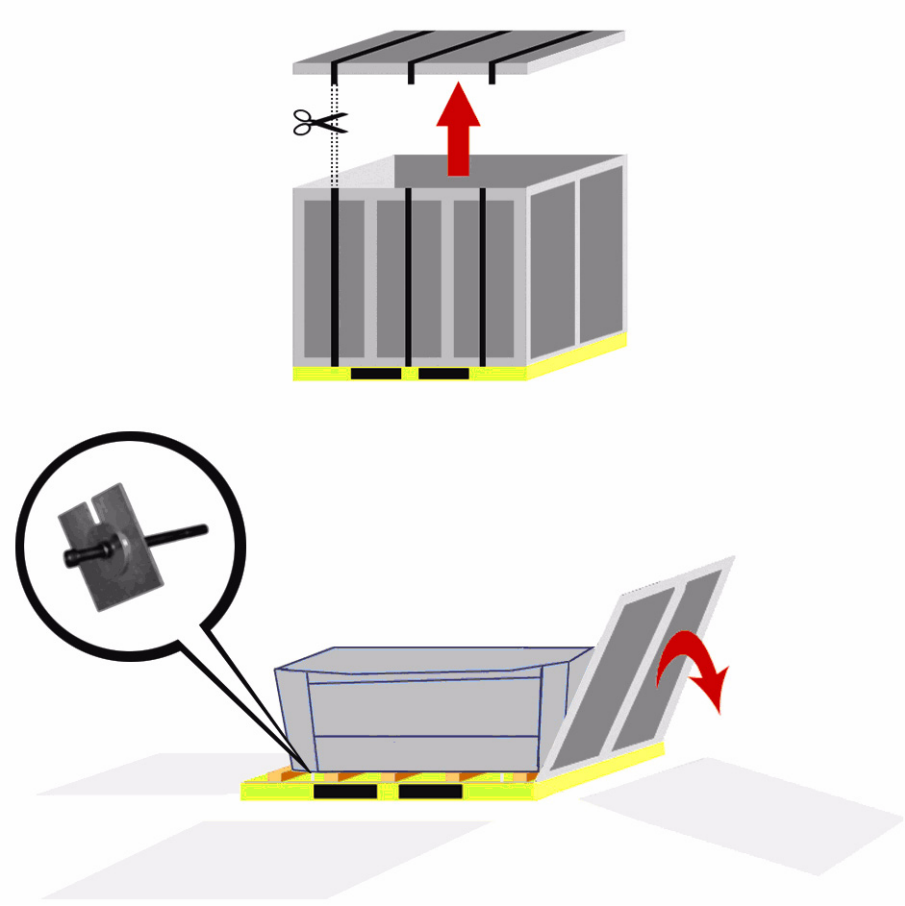
Observe the following precautions before unpacking:

- Do not unpack the platesetter in extreme heat (above 30°C / 86°F) or extreme cold (below 0°C / 32°F).
- Do not touch any of the mechanical parts if there are signs of ice on the platesetter. Wait at least 24 hours (preferably 48 hours) for the platesetter to gradually reach room temperature.
- If the weather is very humid, do not unpack the platesetter in a non-air-conditioned room.
- Use only the forklift to lift the shipping container, and place it at the unpacking site.
- Make sure the forklift tines fully extend from the front of the shipping container to the rear of the shipping container. If the platesetter is to be lifted without the pallet, then make sure the tines are extend from the front of the platesetter to the rear of the platesetter.
- Make sure the shipping pallet container is lifted only from its front side, as indicated by the label on the container packaging.

Check the following:

- Before you begin unpacking the platesetter, ensure that the unpacking site is large enough to allow easy maneuvering of the platesetter.
- Available space for the forklift to lower the platesetter from its shipping pallets.
- Doorway clearance for the platesetter and forklift.

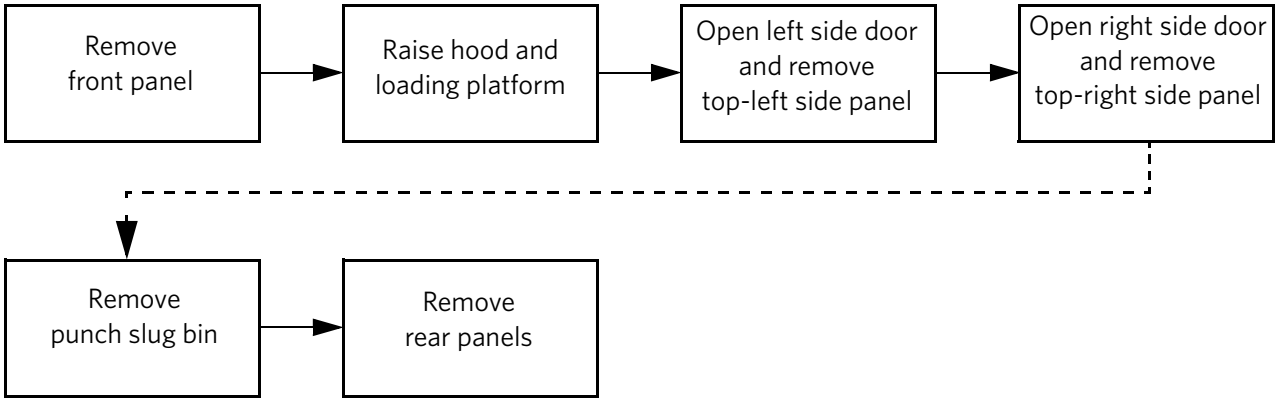
Removing the Platesetter From the Packaging



Assembling Parts

When assembling any parts, apply Loctite 242 adhesive onto all screw threads unless the procedure specifically states otherwise.

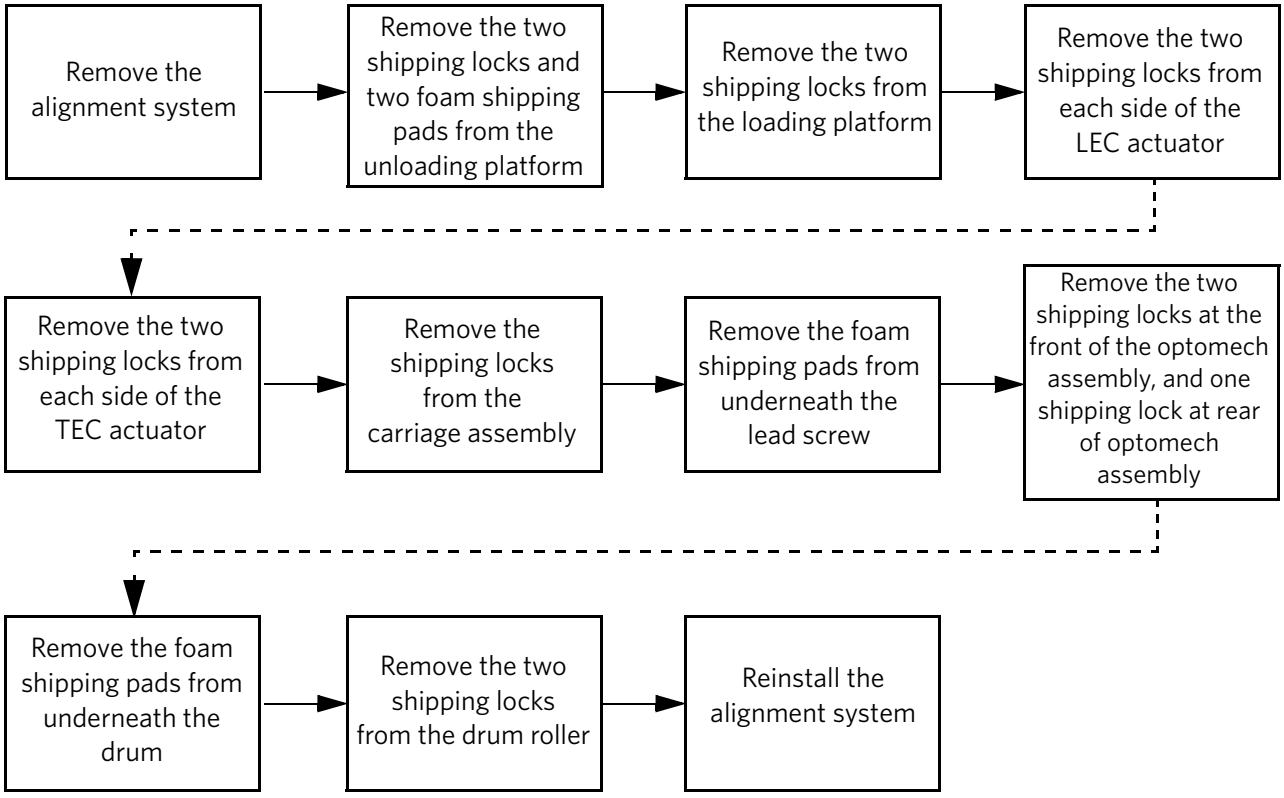
Removing the Panels, Doors, and Punch Slug Bin



Checklist

- ❒ Removed front panel
- ❒ Raised hood and platform
- ❒ Removed front panel
- ❒ Opened left side door and removed top-left side panel
- ❒ Opened right side door and removed top-right side panel
- ❒ Removed punch slug bin
- ❒ Remove rear panels

Removing the Shipping Locks



Procedure

1. Remove the alignment system and move it to a safe place.

2. Remove the shipping locks, shipping pads, and cable ties from the following locations:

Unloading Platform

a. Remove the two cable ties from either side of the unloading platform (four cable ties in total).

b. Remove the two foam shipping pads located between the unloading platform actuator and the unloading platform.



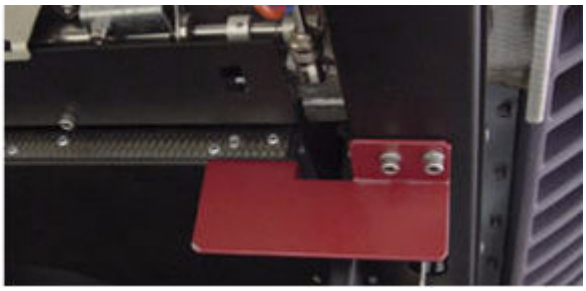




Loading Platform

Remove the shipping lock from the right side of the loading platform.

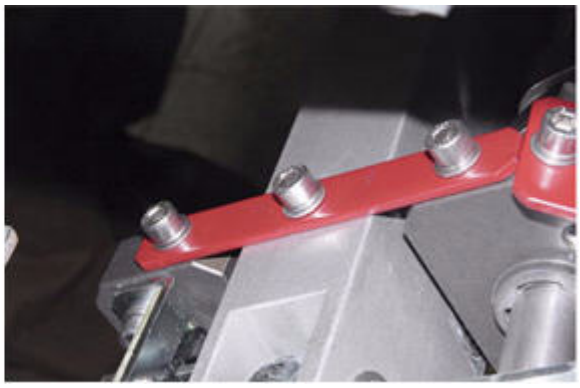




LEC Actuator

Remove the two shipping locks on either side of the LEC actuator.

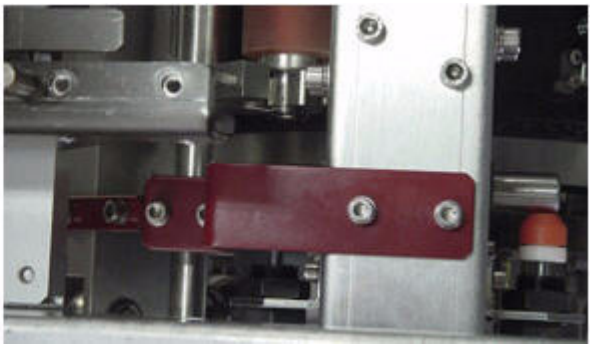




TEC Actuator

Remove the two shipping locks on either side of the TEC actuator.

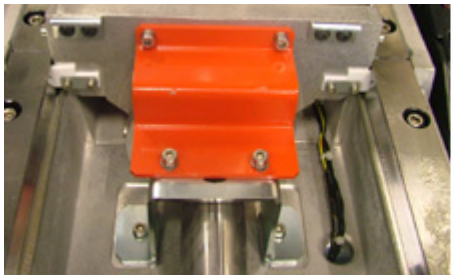
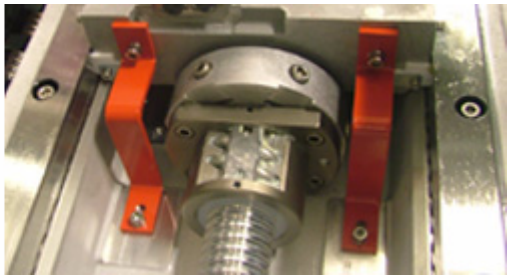




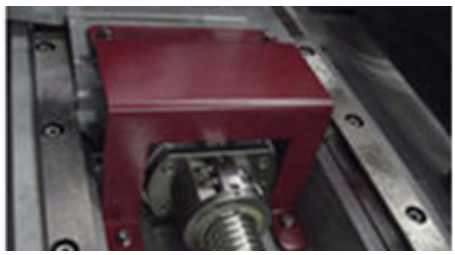
Optomech Assembly to Carriage Assembly

a. Remove the shipping locks from either side of the thermal head.

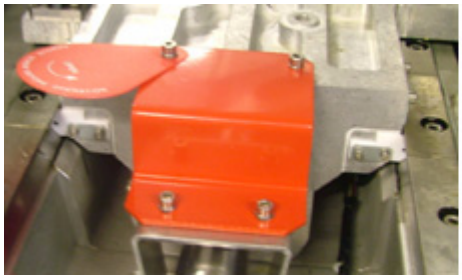
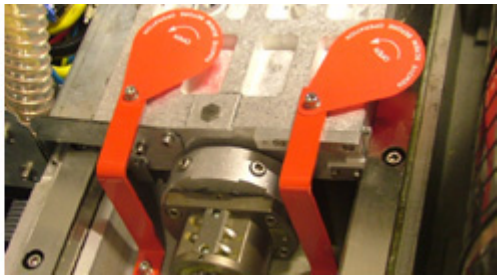
- **S- and F-speed platesetters (TH1.7)**: Three shipping locks on either side of the head.

- **V- and X-speed platesetters (TH2)**: Two shipping locks located on either side of the head.

- **Z-speed platesetters (TH3)**: Three shipping locks located on either side of the head.

b. Remove the two foam shipping pads from underneath the lead screw.



Optomech Assembly to Chassis

a. Remove the three shipping locks.
There are two shipping locks at the front of the optomech assembly and one shipping lock at the rear (accessed through the coolant pump door).

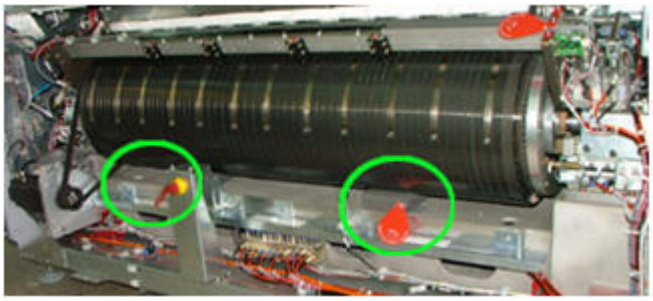
b. Remove the two foam shipping pads from underneath the lead screw.





Drum

Remove the two foam shipping pads from underneath the drum.



Drum Roller

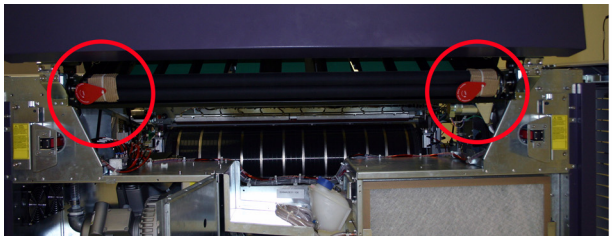
Remove the two shipping locks

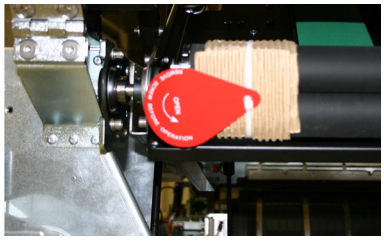




Unloading Platform Rollers

Remove the two cable ties securing the unloading platform rollers to the unloading tray.





E-box Desiccant Bag

Loosen the three screws securing the E-box and remove the desiccant bag.



3. Reinstall the alignment system.

Checklist

- ❒ Removed alignment system
- ❒ Removed two cable ties from each side of unloading platform
- ❒ Removed the two foam shipping pads located between the unloading platform actuator and the unloading platform
- ❒ Removed the shipping lock from the right side of loading platform
- ❒ Removed two shipping locks from each side of LEC actuator
- ❒ Removed two shipping locks from each side of TEC actuator
- ❒ Removed the shipping locks securing optomech assembly to carriage assembly
- ❒ Removed two shipping locks at front of optomech assembly and one shipping lock at rear of optomech assembly
- ❒ Removed two foam shipping pads from underneath lead screw
- ❒ Removed the two foam shipping pads from underneath the drum
- ❒ Removed two shipping locks from the drum roller
- ❒ Removed the two cable ties securing the unloading platform rollers to the unloading tray
- ❒ Removed the three screws securing the E-box and removed the desiccant bag
- ❒ Reinstalled alignment system

Preparing the Thermal Head

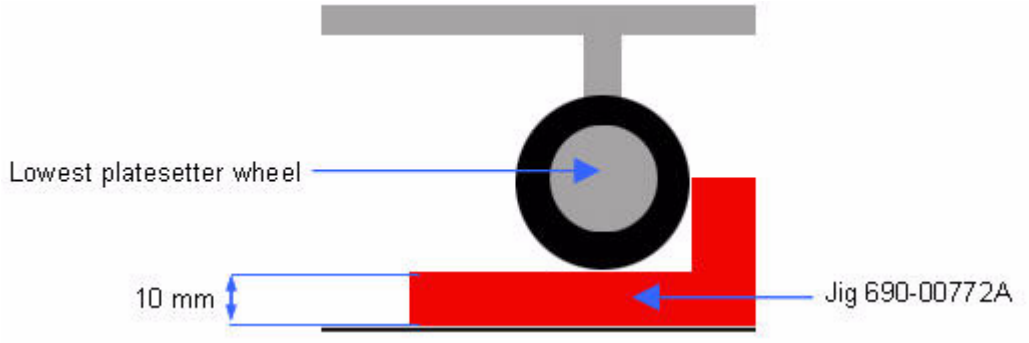
Prepare the thermal head as described in the relevant document:

- **S-, F-, V- and X-speed platesetters (TH1.7 and TH2):** Preparing the TH1.7 and TH2 for installation a Magnus 800 platesetter and then continue to *Leveling the Platesetter* on page 12
  TechPlanet: http://techplanet.creo.com/output/computer_to_plate/magnus800/content/Install/M8_PrepareTH2head.htm
- **Z-speed platesetters (TH3):** Installing a Thermal 3 Head onto a Magnus 800 Platesetter and then continue to *Leveling the Platesetter* on page 12
  TechPlanet: http://techplanet.creo.com/AgileContent/Extranet/731-01250A118597374.pdf

Leveling the Platesetter

Procedure

1. Raise the platesetter, by lowering its legs, until the distance between the lowest wheel and the floor is exactly 10 mm.
   Use the jig (690-00772A) to determine the exact distance. If the distance between any of the wheels and the floor is less than 10 mm, then continue to raise the platesetter until all the wheels are at least 10 mm from the floor.



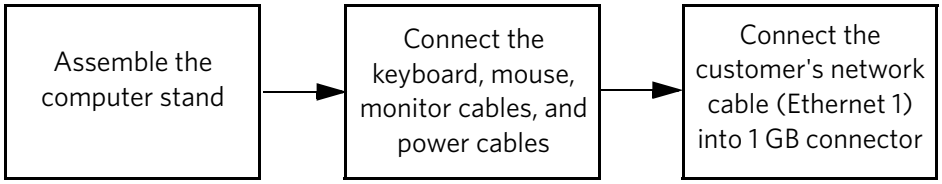
Important: The 10-mm distance between the lowest platesetter wheel and the floor is the precondition for aligning any additional devices to the platesetter.

2. Place a level, in turn, on all four sides of the platesetter's chassis.
   Adjust the four legs of the platesetter until the platesetter is level - *make sure to maintain a height of 10 mm from the floor to the lowest platesetter wheel.*

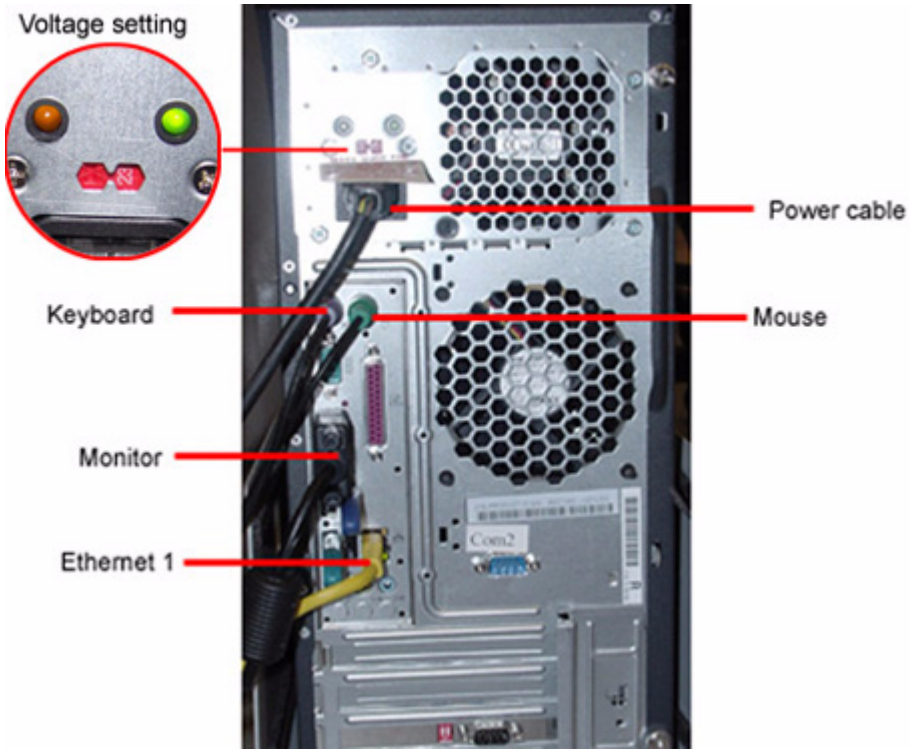
Checklist

- ❒ Made sure the height from floor to platesetter's lowest wheel is exactly 10 mm
- ❒ Leveled the platesetter

Assembling the Computer Stand and Computer



Procedure
1. Assemble the computer stand according to the instructions supplied in shipping carton.
2. Place the monitor, keyboard, and mouse on the computer stand's upper shelf. Place the Magnus 800 computer on the stand's lower shelf.
3. Connect the keyboard, mouse, monitor cables, and power cable.
4. Make sure the computer is set to the local voltage
5. Connect the customer's network cable (Ethernet 1) into the 1 GB connector.



Checklist

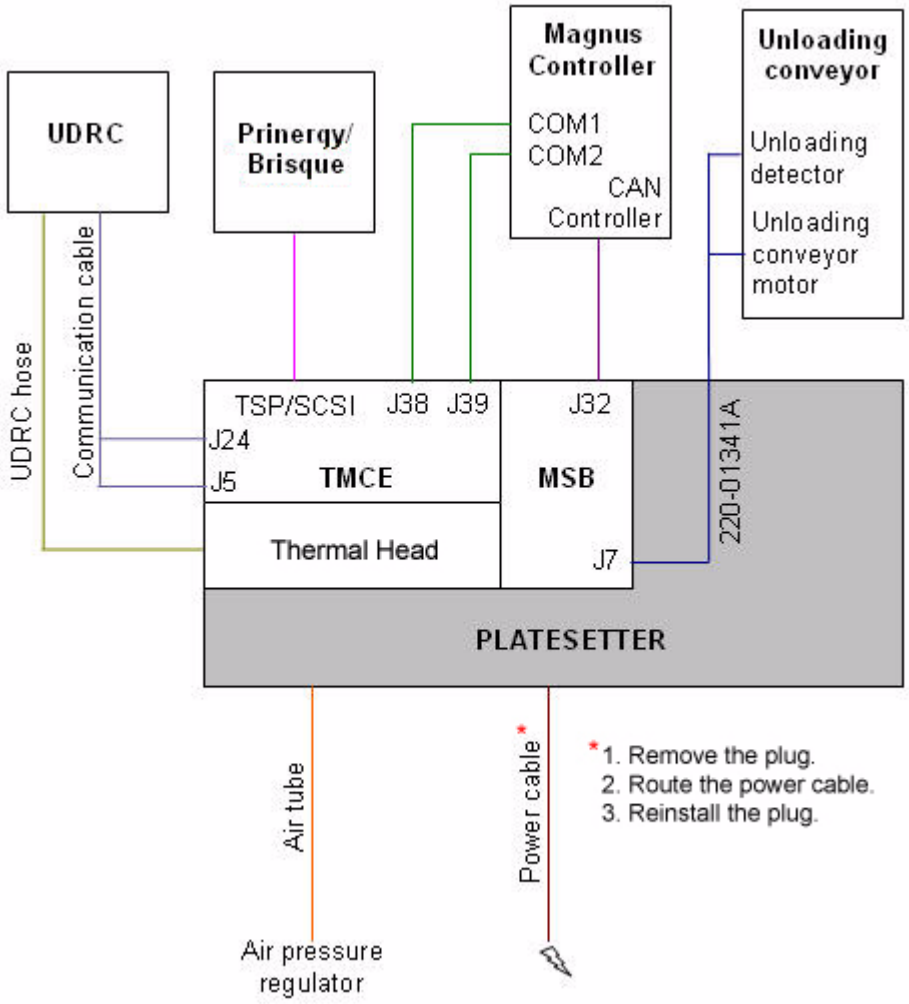
- ❒ Assembled computer stand
- ❒ Connected keyboard, mouse, monitor and power cables
- ❒ Checked computer was set to local voltage
- ❒ Connected Ethernet 1 into 1 GB connector

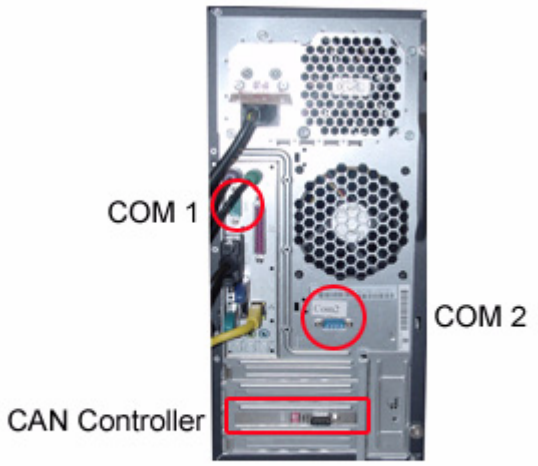
Connecting the Cables

Platesetters with TMCE Boards

Note: To connect the cables on a platesetter with a GMCE board, see Platesettters with GMCE Boards on page 16.

The TSP/SCSI connector is thicker than the rest of the cables that need to be routed towards the E-box. Therefore, route the TSP/SCSI cable through the access hole before routing the remaining cables through the same hole. In addition, make sure the TSP/SCSI cable is long enough for the E-box door to be fully opened.





Magnus Controller Connectivity

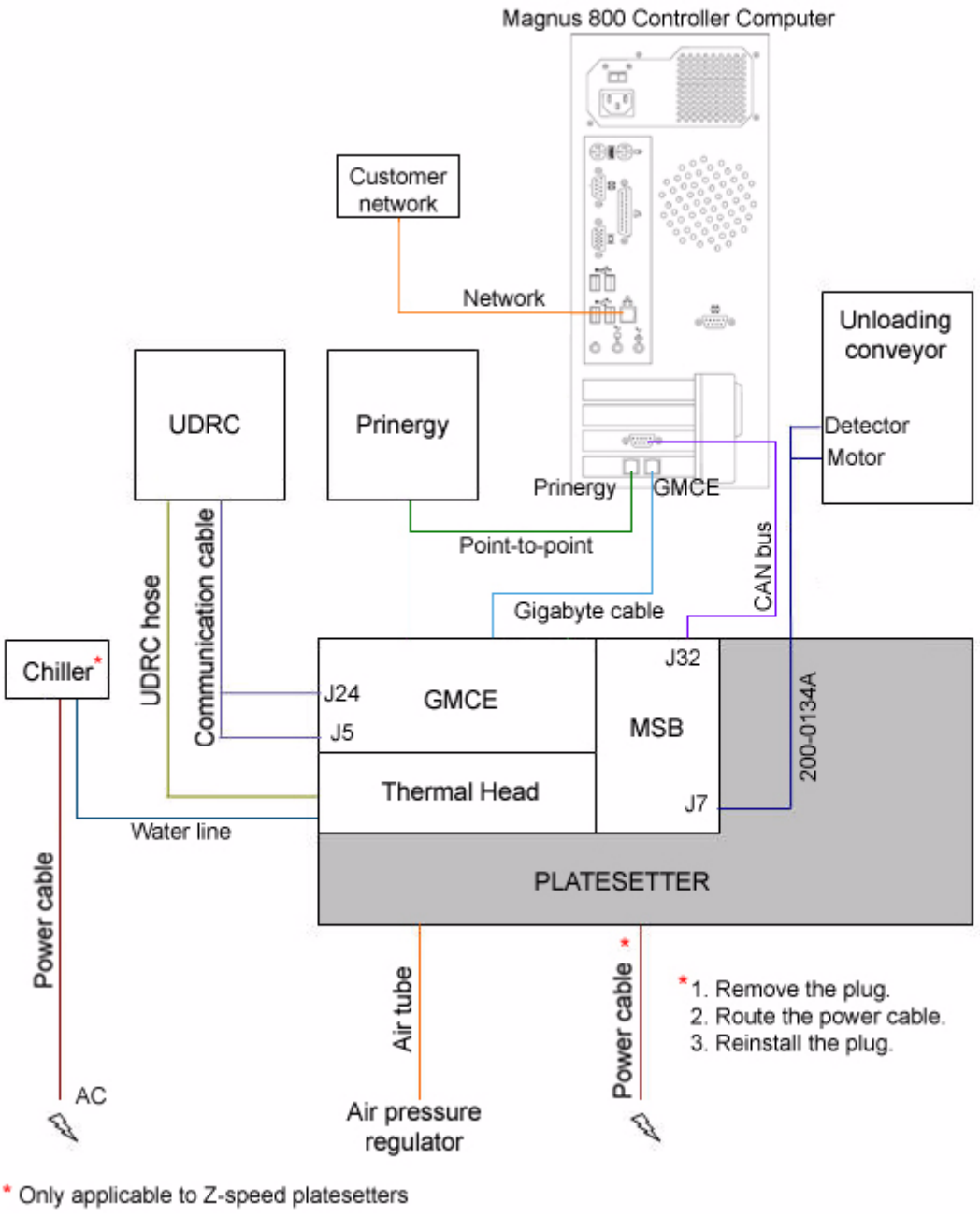


UDRC Connectivity

Checklist for connecting cables on platesetters with a TMCE board

- ❒ Connected TSP/SCSI cable (TMCE) to either the Brisque digital front end or the Prinergy server
- ❒ Connected UDRC hose
- ❒ Connected UDRC communication cable (J24, J5 TMCE) to UDRC cabinet
- ❒ Removed the power cable's industrial plug. Routed the power cable through the platesetter. Reinstalled the industrial plug, and connected the power cable to customer's power outlet.
- ❒ Connected air tube to air pressure regulator
- ❒ Connected J38 cable (TMCE) to COM1 (Magnus 800 Controller computer)
- ❒ Connected J39 cable (TMCE) to COM2 (Magnus 800 Controller computer)
- ❒ Connected J32 cable (MSB mother board) to CAN Controller (Magnus 800 Controller computer)
- ❒ Connected unloading conveyor cables (J7- part number 220-01341A), located on MSB mother board), to unloading conveyor (unloading detector and unloading conveyor motor)

Platesettters with GMCE Boards



Checklist for connecting cables on platesetters with a GMCE board

- ❒ Connected the crossover (point-to-point) cable from the left side of the GB port (Magnus 800 Controller computer) to the Kodak Prinergy® server
- ❒ Connected the gigabyte cable from the right side of the GB port (Magnus 800 Controller computer) to the GMCE
- ❒ Connected UDRC hose
- ❒ Connected UDRC communication cable (J24, J5 GMCE) to UDRC cabinet
- ❒ Removed the power cable's industrial plug. Routed the power cable through the platesetter. Reinstalled the industrial plug, and connected the power cable to customer's power outlet.
- ❒ Connected air tube to air pressure regulator
- ❒ Connected CAN bus cable from J32 (GMCE) to CAN (Magnus 800 Controller computer)
- ❒ Connected unloading conveyor cables (J7- part number 220-01341A), located on MSB mother board), to unloading conveyor (unloading detector and unloading conveyor motor)
- ❒ Connected Magnus 800 Controller computer network cable to customer's network
- ❒ Connected chiller's power cable to AC outlet

Filling the Reservoir on S-, F-, V-, and X-Speed Platesetters

Important: This procedure is only relevant for S-, F-, V-, and X-speed platesetters. For Z-speed platesetters, see Setting up the Chiller for Z-Speed Platesetters on page 18.

Procedure
1. Open coolant pump door.
2. Remove the reservoir cap and pour coolant into the reservoir until it reaches the **max. level** line.
3. Ensure that electricity is running through the platesetter, and then turn on the platesetter.
4. The coolant begins to circulate through to the thermal head. Continue pouring coolant until the reservoir is full (max. level line).
5. Close the coolant pump door.
6. Reinstall the panels, doors, and punch slug bin as described in the section *Reinstalling the Panels, Doors, and Punch Slug Bin* on page 21.

Setting up the Chiller for Z-Speed Platesetters

This procedure describes how to set up chillers to work with Z-speed platesetters.

Note: There are two types of chiller - 50 Hz (500-03396A) and 60 Hz (500-03400A)

Important: Do not power on the chiller until the water pipes are connected.

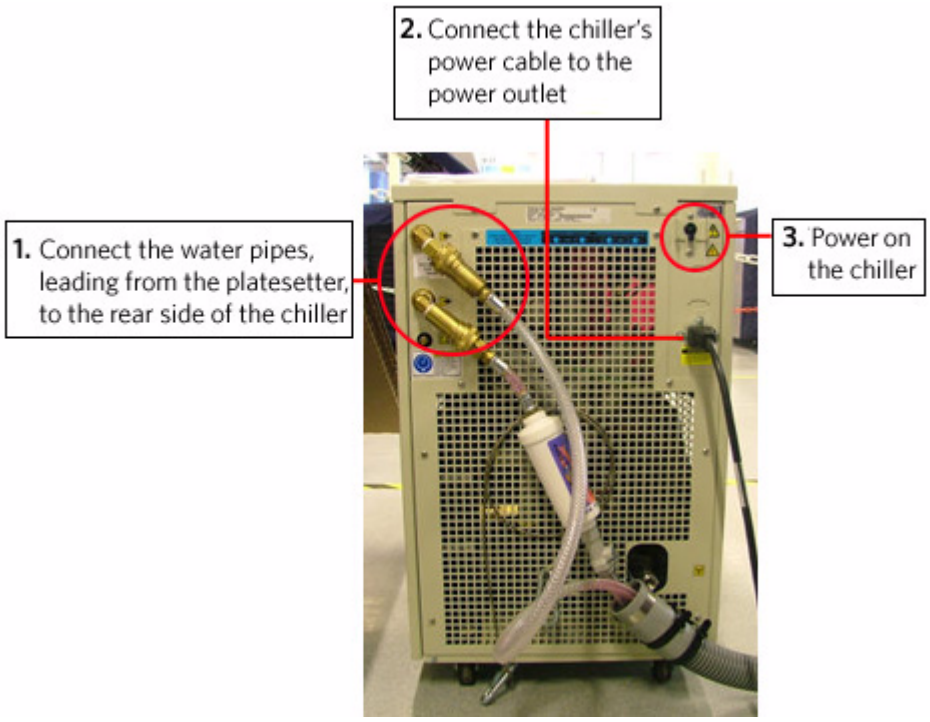
Procedure

1. Remove the reservoir cap and pour coolant into the reservoir until it reaches the maximum level line.



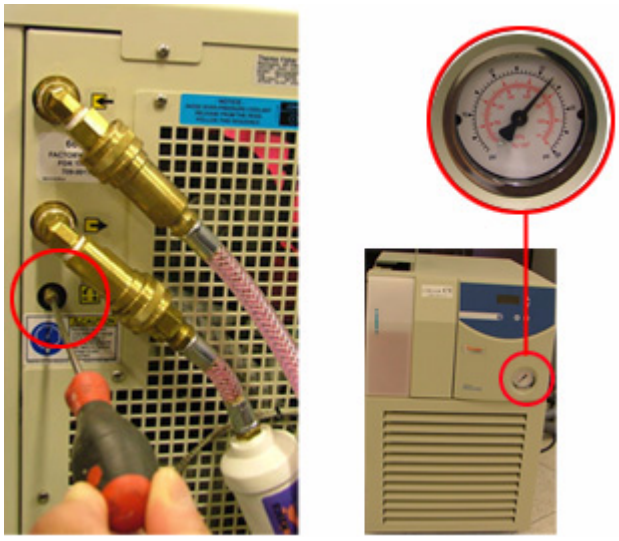


2. Connect the chiller's cables and then power on the chiller.

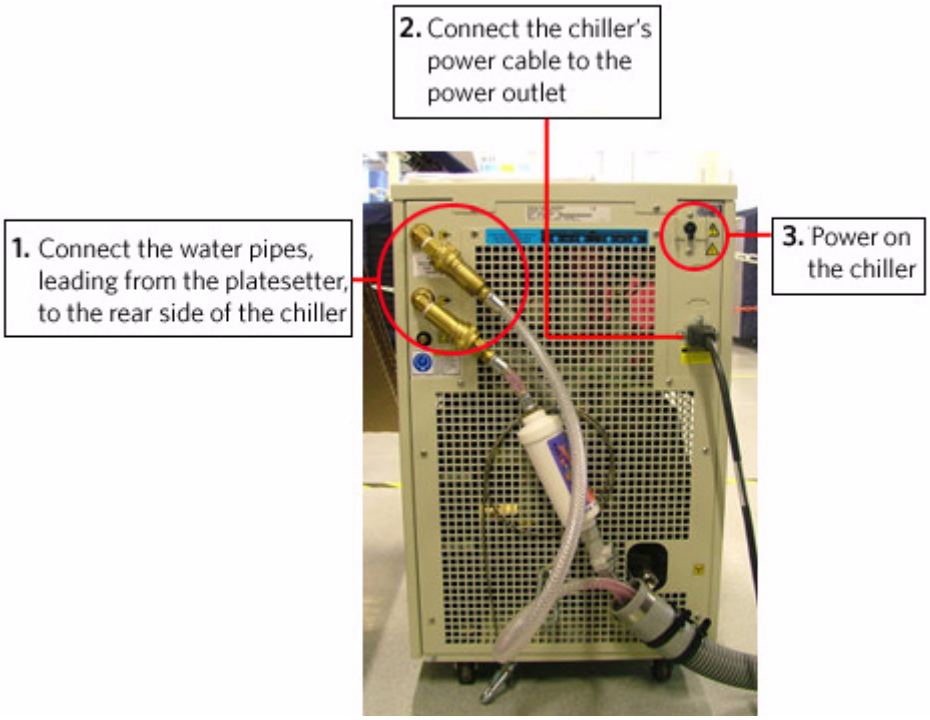


3. To verify if the chiller is powered on, in Service Shell type `Magnus>>chiller`.

4. Rotate the pressure adjustment screw to set the chiller's pressure to 65 psi. Use the pressure gauge to monitor the adjustment screw's effect on the pressure level.



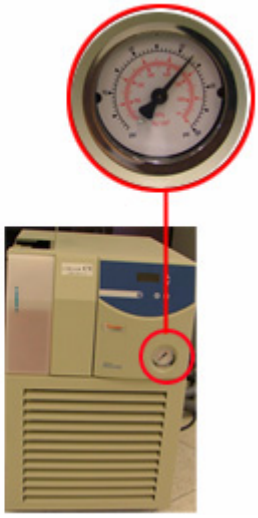
2. C



3. To verify if the chiller is powered on, in Service Shell type `Magnus>>chiller`.

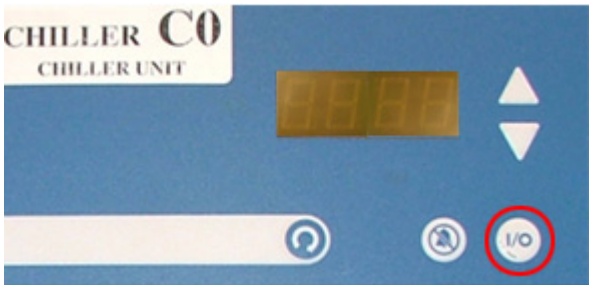
4. Rotate the pressure adjustment screw to set the chiller's pressure to 65 psi. Use the pressure gauge to
n level.



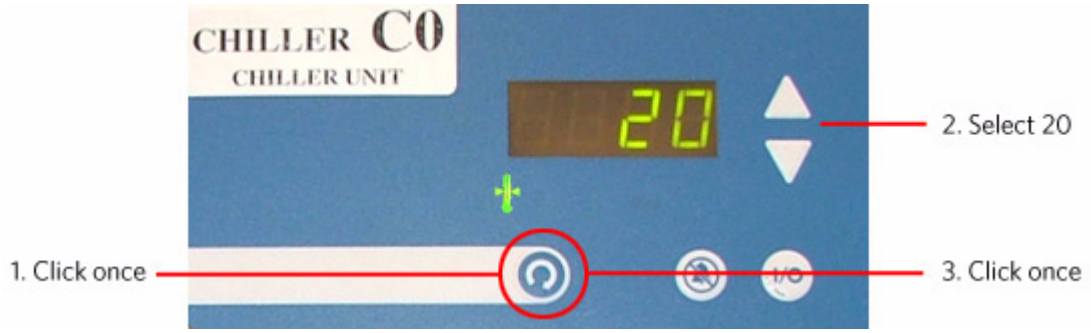


5. Define the chiller's working temperature (20°C) and the allowed temperature tolerance (18-22°C).

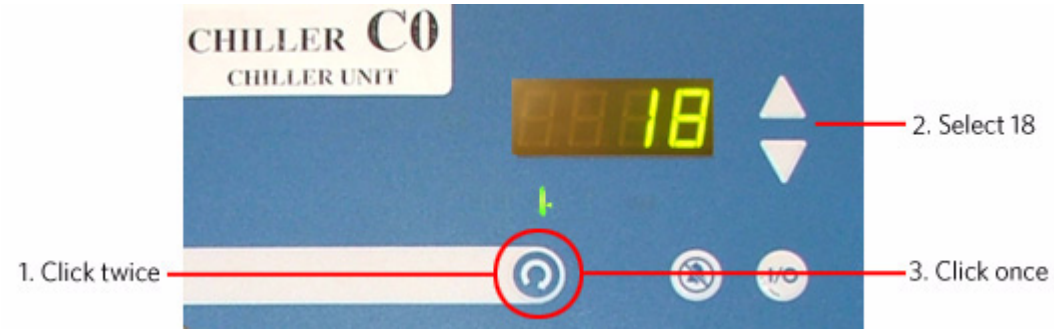
Turn on the chiller:



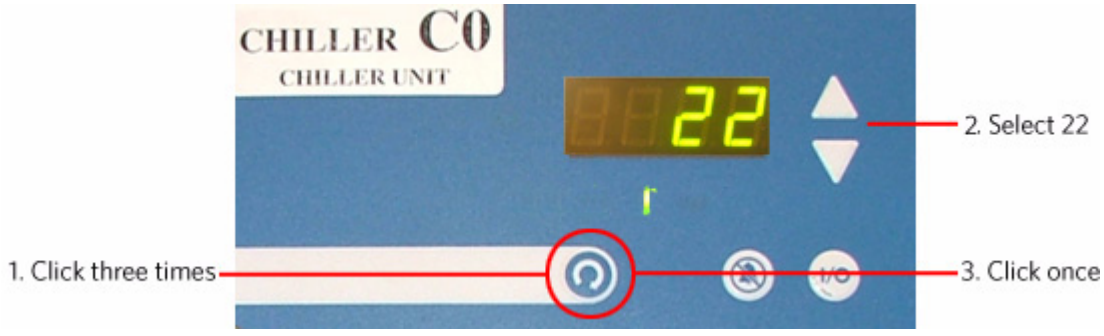
Set the chiller's temperature to 20°C:



Set the chiller's minimum allowed temperature to 18°C:



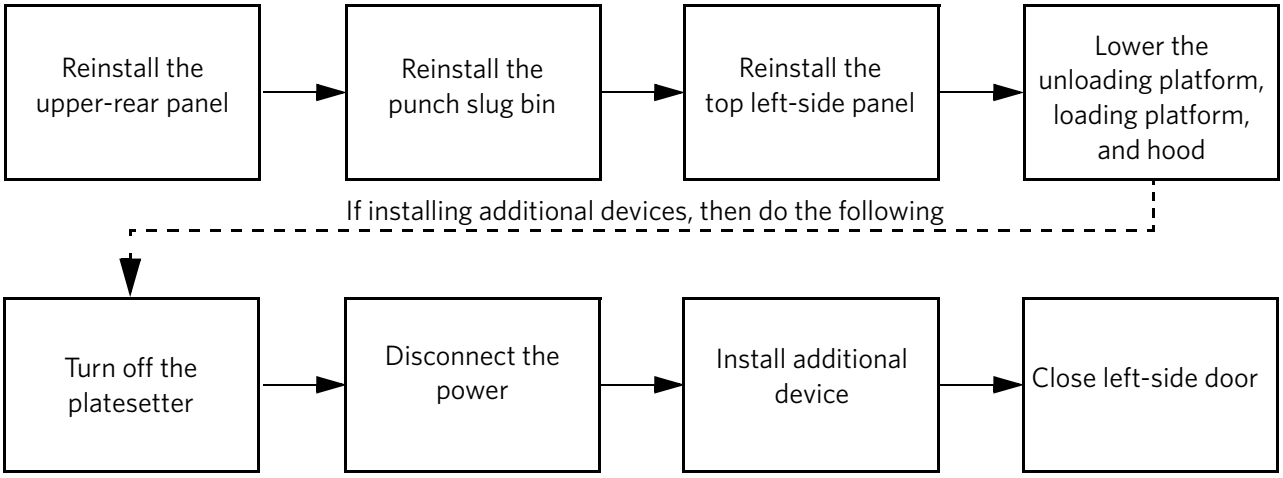
Set the chiller's maximum allowed temperature to 22°C:



Installing the Unloading Conveyor

See TechPlanet Unloading conveyor installation procedures (http://techplanet.creo.com/output/computer_to_plate/magnus800/nav/install.htm#conveyor).

Reinstalling the Panels, Doors, and Punch Slug Bin



Checklist

- ❒ Reinstalled upper-rear panel
- ❒ Reinstalled punch slug bin
- ❒ Reinstalled top left-side panel
- ❒ Lowered the unloading platform, loading platform, and hood

When installing an additional device:

- ❒ Turned off platesetter
- ❒ Disconnected power
- ❒ Installed additional device
- ❒ Closed left-side door

Setting up the Magnus 800 Computer Network

http://techplanet.creo.com/output/computer_to_plate/magnus800/content/Install/SetupMag8PC.pdf

Setting up the Magnus 800 Platesetter With a GMCE Board to the Prinergy Render Workstation

http://techplanet.creo.com/output/computer_to_plate/magnus800/content/Procs/M8_proc_setupPTPprinergy.htm

Completing the Installation

Procedure
1. Install a protective cover on exposed high voltage power cable.
2. Z-speed platesetters: Route the TH3 coolant hose to a receptacle.
3. Configure the unloading conveyor. http://techplanet.creo.com/output/computer_to_plate/magnus800/content/Install/M8_ConfigureUnloadCon.htm
4. Perform a loading and unloading sequence and check that the process runs smoothly.
5. Perform plate media calibration using Service Shell test plot applet.
6. **S-, F-, V-, and X-speed platesetters:** Remove the focus key from the focus switch and keep it with you.
7. Check the connection between the *Brisque* workstation/*Prinergy* server and the platesetter.
8. Check and if required, optimize the height of the loading platform as described in TechPlanet. http://techplanet.creo.com/output/computer_to_plate/magnus800/content/Procs/LoadingPlatform/M8_procAdjustLoadingPlatform.htm
9. Perform the installation test procedures as described in the Installation Test Procedure document. http://techplanet.creo.com/output/computer_to_plate/magnus800/content/Install/m8ITC.pdf
10. Complete the Installation Feedback Report. http://techplanet.creo.com/output/computer_to_plate/magnus800/content/Install/M8_InstallationTestReport.htm

Checklist

- ❒ Installed a cover on the exposed high voltage cable
- ❒ Configured the unloading conveyor
- ❒ Routed the TH3 coolant hose to a receptacle
- ❒ Performed a loading and unloading sequence and checked that the process ran smoothly
- ❒ Performed plate media calibration using Service Shell test plot applet
- ❒ **S-, F-, V-, and X-speed platesetters:** Removed the focus key from the focus switch located on kept it
- ❒ Checked the connection between the Brisque digital front end/Prinergy server and the platesetter
- ❒ Checked the height of the loading platform
- ❒ Performed the installation test procedures
- ❒ Completed the Installation Feedback Report