

Epson Stylus® Pro 7900CTP Computer to Plate System



User's Guide

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Introduction

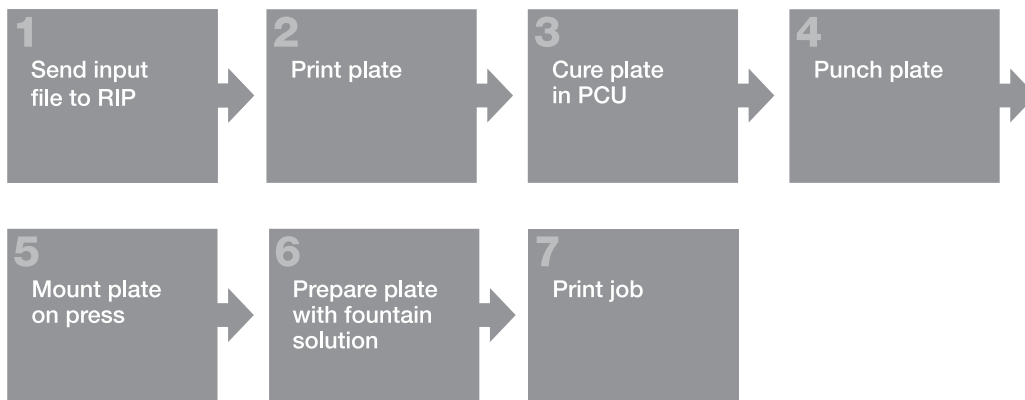
The Epson Stylus® Pro 7900CTP Computer to Plate System enables small business printers to print Epson DirectPlate Aluminum plates to run on their presses.

To run a print job on the system:

- Computer-separated images are produced with the RIP software
- The images are printed on a plate
- The plate is heated in a plate curing unit
- The plate is mounted on a press
- The job is printed

System Workflow

The workflow for the process is as follows:



PCU Safety Instructions

Before using your PCU, read the following safety instructions to make sure you use the equipment safely and effectively.



- The electronics and heating element use dangerous electrical voltages. To reduce the chance of personal injury or property damage, turn off and unplug the PCU when maintaining the system.
- Always turn off the PCU using the Heater switch on the control panel first. When the PCU temperature reads less than 100 °C it is safe to turn off the PCU by the main power switch in the back of the unit. Failure to follow this could result in a shortening of the life of the mechanism that moves the plate through the PCU.
- The PCU heater reaches high temperatures during plate curing. Do not touch the slot area where the plate comes out on the tray.
- Aluminum plates are hot when they exit the PCU. Let the plate cool before removing from the tray.
- Make sure the plate is dry when feeding it into the PCU; if the plate is wet, it could create steam and cause burns.
- Do not open the PCU because of electric shock danger.
- Do not run the PCU with the protective cover open or removed.
- Place the PCU on a flat, level, stable surface that is larger than the unit. The PCU will not operate properly if it is tilted or at an angle.
- The PCU weighs about 55 lb (25 kg) in the box and is bulky, so it should be handled by two people.
- Do not disable the safety mechanisms installed by the manufacturer in the PCU.

See additional safety instructions for the printer in the Epson Stylus Pro 7900/9900 *Printer Guide*.

Purchasing Supplies

The Epson Stylus Pro 7900CTP Computer to Plate System was designed exclusively to use Epson DirectPlate Aluminium plate technology. Epson currently offers a complete lineup of plate sizes to work with the majority of printing presses available. If you do not see your press in the table below, check www.proimaging.epson.com or contact your Epson Professional Imaging Authorized Reseller to determine if plates are available in your specific size.

Epson DirectPlate Aluminum Plate Sizes

Part number	Press	Dimensions (Width × Length)			Gauge (mil)	Quantity
		Inch (fractions)	Inch (hundredths)	Metric (mm)		
S045194	Ryobi 3302	13-3/16 × 19-3/32	13.19 × 19.09	335 × 485	6	100
S045195	Ryobi 3200	12-3/4 × 18-1/2	12.75 × 18.50	324 × 470	6	100
S045196	Heidelberg QM	13-3/8 × 19-7/8	13.38 × 19.88	340 × 505	6	100
S045197	Heidelberg GTO	14-9/16 × 17-3/4	14.56 × 17.75	370 × 451	6	100
S045198	Heidelberg GTO 52	15-3/4 × 20-1/8	15.75 × 20.13	400 × 511	6	100
S045199	Komori Sprint	22 × 26-1/2	22.0 × 26.50	559 × 673	8	50
S045200	Heidelberg SM 52	18-1/16 × 20-11/16	18.06 × 20.69	459 × 525	8	50
S045201	Hamada 601	12 × 18	12.00 × 18.00	305 × 457	6	100
S045202	Hamada 600	11-3/4 × 18	11.75 × 18.00	298 × 457	6	100
S045203	Hamada 700	15-3/4 × 18-1/2	15.75 × 18.50	400 × 470	6	100
S045204	Roland 200/SM74	23-13/16 × 29-1/8	23.81 × 29.13	605 × 740	8	50
S045205	Multi 1850	15 × 18	15.00 × 18.00	381 × 457	6	100
S045206	Multi 1250W	11 × 18	11.00 × 18.00	279 × 457	6	100
S045207	AB Dick 360	11 × 18-1/2	11.00 × 18.50	279 × 470	6	100
S045208	AB Dick 9800	13 × 19-3/8	13.00 × 19.38	330 × 492	6	100
S045209	Itek/Ryobi 2800	11-1/4 × 18-1/2	11.25 × 18.50	286 × 470	6	100

System Requirements

Your computer must meet these requirements to run the RIP software:

Minimum

- IBM®-compatible PC with a Pentium® 1 GHz CPU or equivalent
- 1GB of RAM
- 80GB hard drive (20GB available space recommended)
- Microsoft® Windows Vista® or Windows® XP
- DVD drive

Recommended

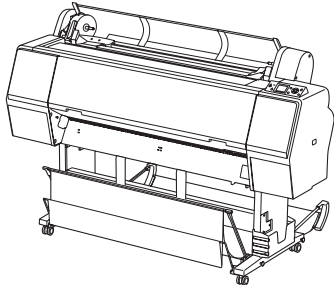
- Pentium 4, 3 GHz or comparable multi-core
- 2GB of RAM
- 300GB hard drive
- Windows 7 x32 (recommended), Windows Vista, or Windows XP
- DVD drive
- One free USB port

Setting Up

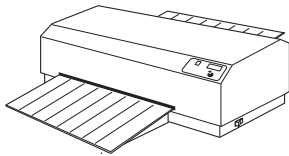
Pre-installation Checklist

You will need the following components:

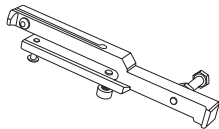
- Epson Stylus Pro 7900 printer



- Plate curing unit (PCU)



- Plate guide



- Epson DirectPlate Aluminum sample pack (12 × 18 inches)
- EFI™ eXpress CTP software RIP CD
- Hexagonal (Allen) (2.5 mm/0.10 inch) wrench
- Teflon® tape for use on plate guide
- THERMAX® temperature strips

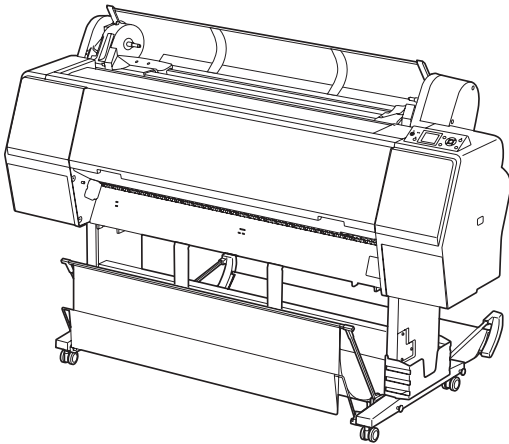
8 | Setting Up the Printer

- Windows-based PC (see “System Requirements” on page 6) (not included)
- Ethernet® (CAT-5) network cable or USB cable for connecting computer and printer (not included)
- Metric ruler (with half-millimeter increments) (not included)

Before you begin, make sure you have sufficient space to set up and use the system.

Setting Up the Printer

See the Epson Stylus Pro 7900/9900 *Printer Guide* for the printer’s setup instructions and additional space requirements.



For additional information, see the following:

- The Epson Stylus Pro 7900/9900 *Printer Guide* provides important information on setting up and using your printer, replacing ink cartridges, maintaining your printer, and troubleshooting tips.
- The Epson Stylus Pro 7900/9900 *Quick Reference Guide* provides a summary of procedures for daily use and printer maintenance. Attach it to your printer for easy reference.

Setting Up the PCU

You should allow an area of 50 × 33 inches (127 cm × 84 cm) for the PCU. The PCU has an L6-20P plug and requires a 220 V L6-20 electrical outlet.

Caution:

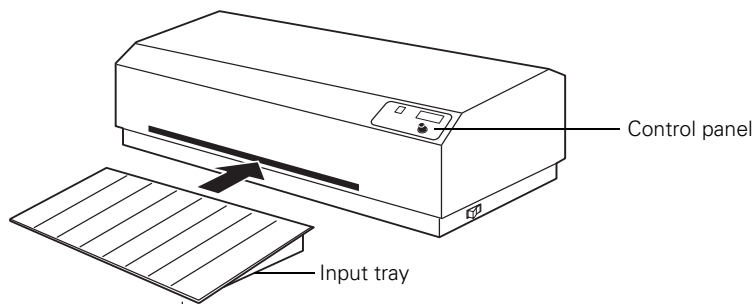
The electrical outlet must be rated for 220/240 V AC (with an acceptable range of 208 to 240 V).

1. Place the PCU on a level, stable surface.

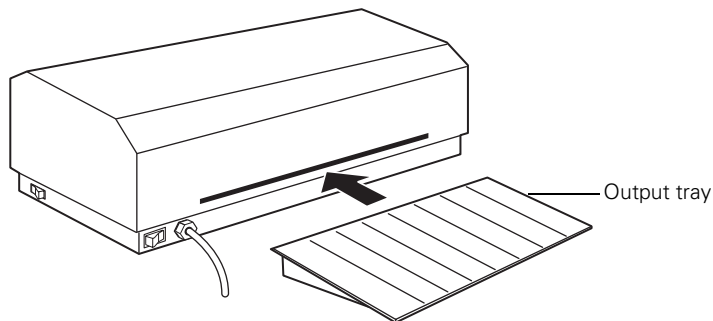
WARNING:

The PCU contains a heater and rises to high temperatures. Aluminum plates are very hot when they come out. Do not touch the plates or slots when hot to avoid burns. Use of gloves is recommended. Make sure the plates are dry when putting them through the PCU. Do not open the PCU because of electric shock danger.

2. Attach the input tray (the smaller one) to the unit by inserting the tab into the front slot of the PCU. Press the tray down to make sure the tab is completely locked into the PCU.



3. Attach the output tray (the larger one) to the slot at the rear of the PCU by inserting the tab and pressing it down in the same way.



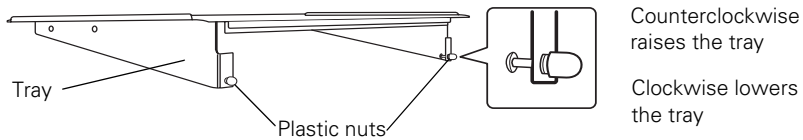
10 | Setting Up the PCU

4. Make sure the trays are fully seated in the slots. You can check this by looking through the slot openings to see if the trays are level with the belt inside the PCU.

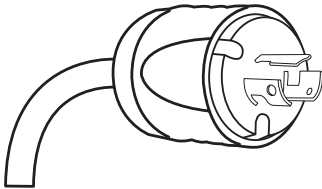
Note:

Both trays should be at a slight incline towards the PCU.

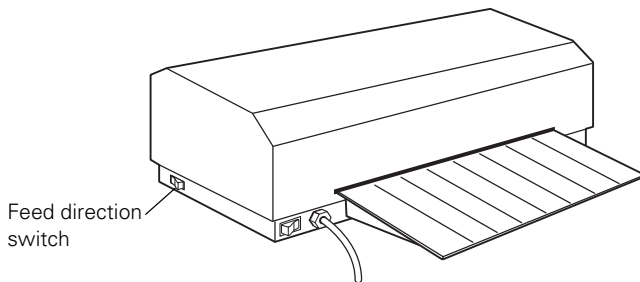
5. To make adjustments if necessary, use the plastic nuts located underneath the tray to create more or less incline. Turn the nuts counterclockwise to increase the tray angle or clockwise to decrease it.



6. Plug the PCU into an outlet compatible with the 220/240 V, 20A single phase plug.



7. If you prefer to run a plate from the rear to the front, you can reverse the direction of the feed by pressing the feed direction switch on the side of the PCU.



Note:

It is safe to press the feed direction switch even while the belt is moving.

Calibrating the PCU

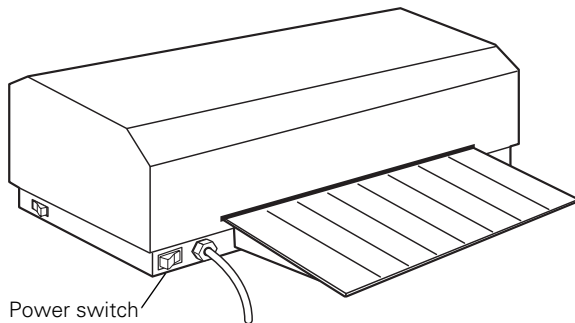
After setting up the PCU, follow the steps below to calibrate it. The recommended initial settings for the PCU are a temperature of 190 °C and a speed of 1.5. To cure properly, the Epson DirectPlate Aluminum plate should reach an even surface temperature of 150 to 160 °C.

Note:

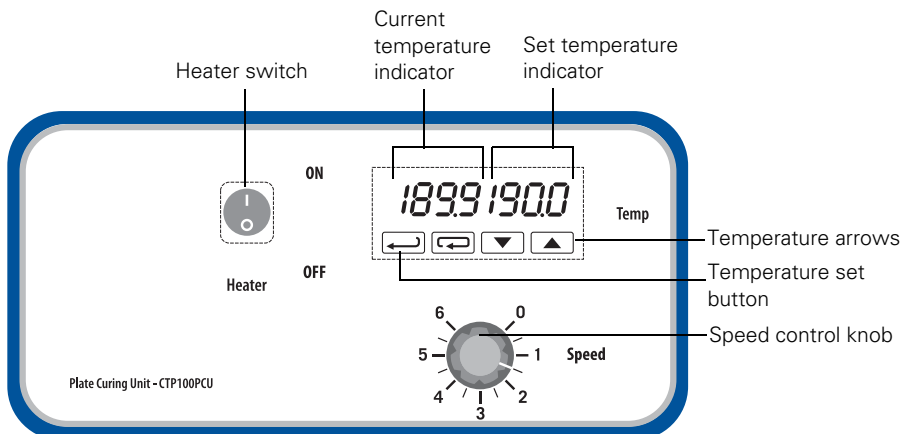
Depending on the temperature and the altitude where the PCU is located, you may need to adjust these settings slightly.

Use the included THERMAX temperature strips and run a plate through the PCU with the strips set across the plate. The THERMAX strips should read between 150 to 160 °C for the plate to be cured correctly.


1. Turn on the power switch from the rear of the unit. This activates the transport belt.



2. Turn on the Heater switch on the control panel.



12 | Calibrating the PCU

3. Set the temperature to 190.0 °C on the control panel using the temperature arrows and then press .

The set temperature indicator on the right displays (in green) the temperature you set. The temperature indicator on the left displays (in red) the actual temperature.

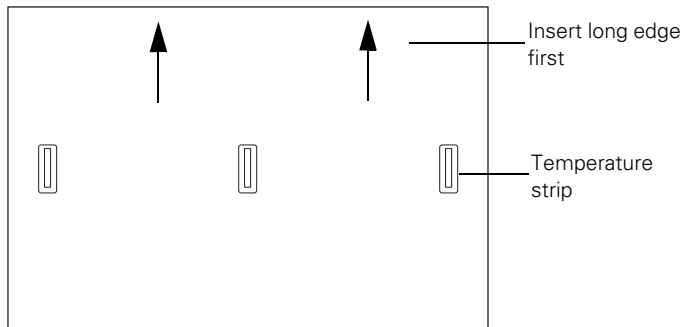
4. Set the Speed control knob to 1.5.
5. Wait for the PCU to warm up to the set temperature; this takes approximately 5 minutes.

The light on the Heater switch comes on while the PCU is warming up, and then turns off and on periodically after that. The light indicates that the heating element is working to maintain a stable temperature.

6. Place three THERMAX temperature strips on the coated side of an Epson DirectPlate Aluminum test plate, one in the middle and one on each short end of the plate, 1/2 inch from the edge.

WARNING:

The plate edges are sharp. Use of gloves is recommended to avoid injury.



7. Place the test plate on the input tray with the long edge toward the slot, coated side up, and gently push it in so it engages with the roller. The plate feeds through the PCU at the set speed.
If the plate is not pulled in by the roller, check that the feed direction switch on the side of the PCU is set correctly.
8. Check the indicated temperature on the temperature strips as the test plate leaves the PCU to see if it is in the range of 150 to 160 °C. If the temperature is low, decrease the speed; if you see burning or the temperature is high, increase the speed.

Caution:

The transport belt should be kept moving when the heater is turned on. This reduces the surface temperature of of the transport belt and improves belt life.

Always turn off the Heater switch on the control panel before you turn off the main power switch. Let the PCU cool to 100 °C or less, according to the current temperature indicator, before turning off the power switch.

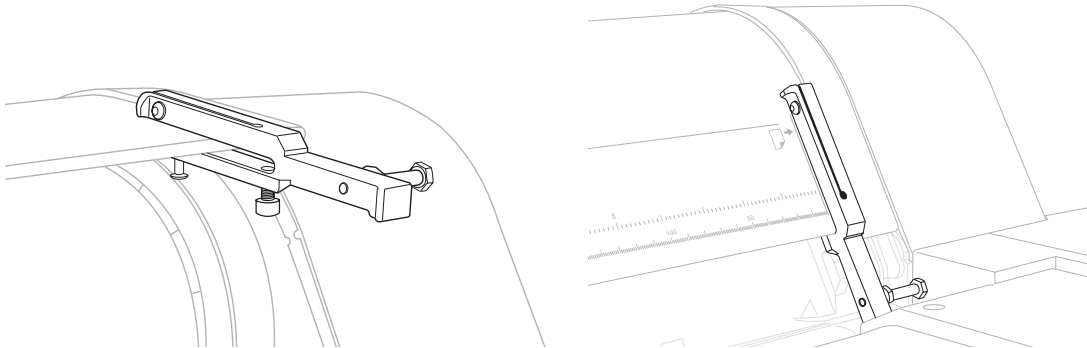
WARNING:

Aluminum plates are hot when they exit the PCU. Let the plate cool before removing it from the tray to avoid burns. Use of gloves is recommended to avoid injury.

Installing the Plate Guide on the Printer

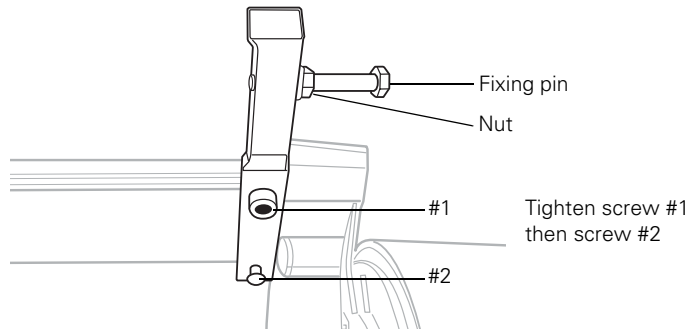
To assure proper registration when printing on Epson DirectPlate Aluminum plates, you need to install the plate guide on the printer.

1. Open the roll paper cover on the printer.
2. Remove the roll paper if installed, to have room to attach the screws on the plate guide. See the Epson Stylus Pro 7900/9900 *Printer Guide* for more information.
3. Slide the plate guide onto the right side of the roll paper cover, aligning it snugly with the black edge of the roll paper cover.



14 | Installing the Plate Guide on the Printer

4. Tighten the screws (first #1 and then #2 as shown) with the two hexagonal wrenches, making sure the fixing pin on the right of the plate guide fits tightly against the black plastic cover component.



Note:

The hexagonal wrench included with the Epson Stylus Pro 7900CTP system and the one included with the printer are different sizes. You need both sizes.

Aligning the Plate Guide

The plate guide must be correctly aligned to remove any skew when printing on the plate. Otherwise, you will have registration problems on the press.

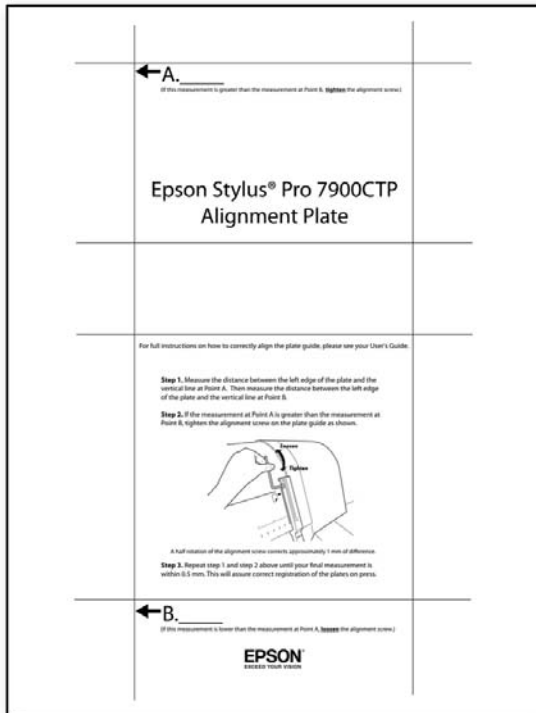
1. Close the printer's roll paper cover.
2. Make sure the fixing pin firmly touches the black plastic cover component. If it is not secure, loosen the nut, extend the pin, and then tighten the nut.
3. Insert a test plate and print the file "7900CTP_alignment_sheet.pdf" that is included on the CD or downloaded from www.proimaging.epson.com. (See "Loading a Plate in the Printer" on page 19.)

The included EFI RIP has a menu option that prints this file automatically.

Note:

You must use an Epson DirectPlate Aluminum plate (12 × 18 inches) for this test because paper won't be accurate.

4. When the plate prints out, use a metric ruler to measure the distance from the left edge of the plate to point A on the printed plate. Then measure the distance from the left edge of the plate to point B. If the distances to points A and B are equal, go to step 7. If they vary by more than 1.0 mm, the plate guide is not correctly aligned. Continue with step 5 to adjust the alignment.

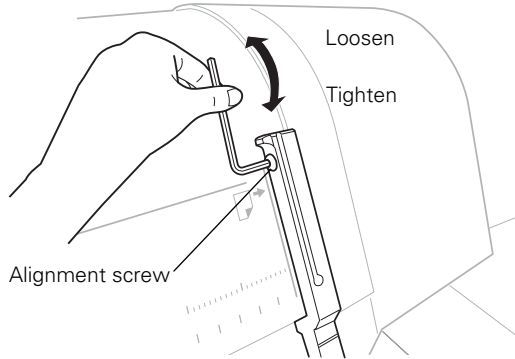


Note:

For best results, use a ruler delineated in half-millimeter increments and a magnifying lens.

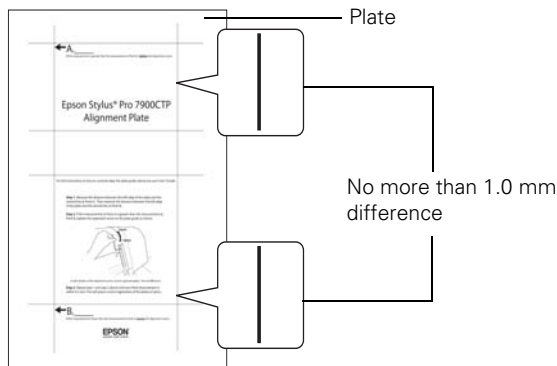
16 | Installing the Plate Guide on the Printer

5. Use the hexagonal wrench included with the Epson Stylus Pro 7900CTP system to adjust the alignment of the plate guide. If distance A is greater than distance B, tighten the alignment screw; if distance B is greater than distance A, loosen the screw. Half a rotation of the screw moves the guide approximately 1.0 mm (0.04 inch).



6. Repeat steps 3 and 4 and, if required, step 5 until the measurements are nearly equal, within 1.0 mm.
7. Once the plate guide is aligned, you need to confirm the alignment. Use a new plate to print a test pattern (see “Loading a Plate in the Printer” on page 19), then print the test pattern again on the same plate. The plate is correctly aligned when the line thickness at the top and bottom of the printed pattern is no greater than 1.0 mm.

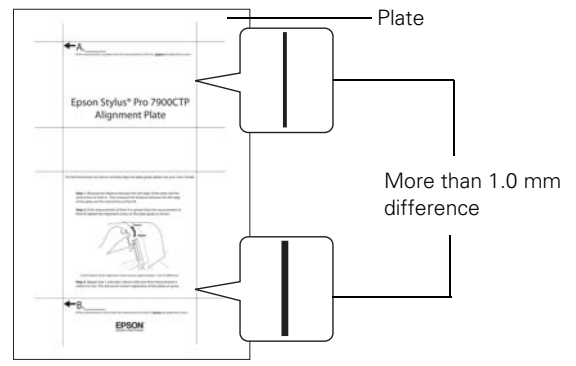
Leading edge



Trailing edge

Correct alignment

Leading edge



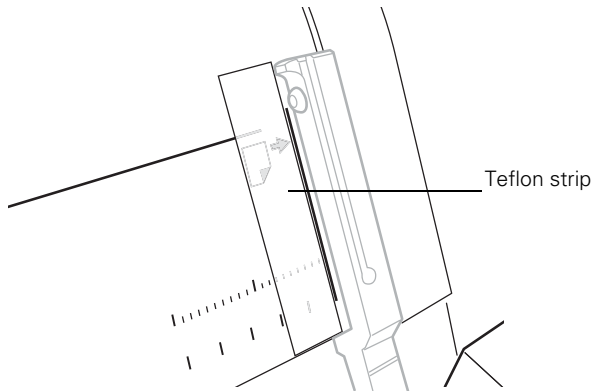
Trailing edge

Incorrect alignment

Applying the Guide Strip

After the plate guide is aligned correctly, attach the Teflon guide strip to the printer to prevent plates from catching under the plate guide.

1. Remove the adhesive backing from the strip.
2. Align the strip as shown against the plate guide, and apply it from just above the top of the guide to the bottom edge of the roll paper cover.



Note:

You should cover the markings on the aluminum roll paper cover with clear packing tape. This is recommended because long-term use of the plates may wear the markings off.

Setting Up the RIP

Insert your EFI software RIP CD into your computer and follow the on-screen instructions to complete the software installation.



Refer to the documentation included with the EFI software for setup and usage instructions. Also, see www.proimaging.epson.com for additional online videos and training tools on the EFI CTP software RIP.

Loading a Plate in the Printer

Caution:

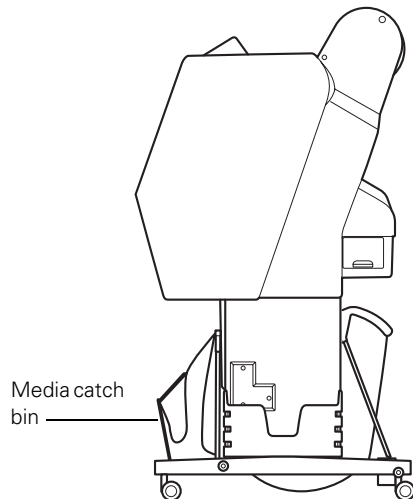
Examine each plate carefully before you use it. If the plate is dented or the corners or edges are bent, do not use it. Even the slightest bent corner can damage the printer.

Use only Epson DirectPlate Aluminum plates.





**WARNING:**

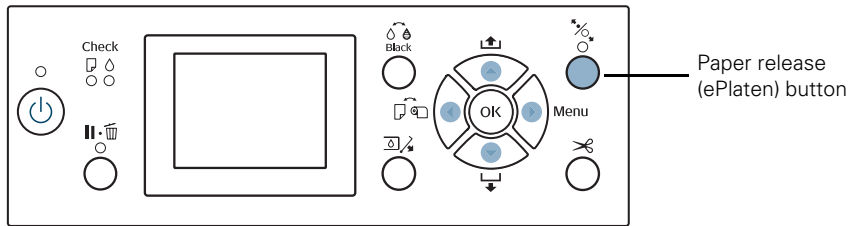
The plate edges are sharp. Use caution to avoid injury.


1. Make sure the media catch bin (fabric bin) is positioned as shown.

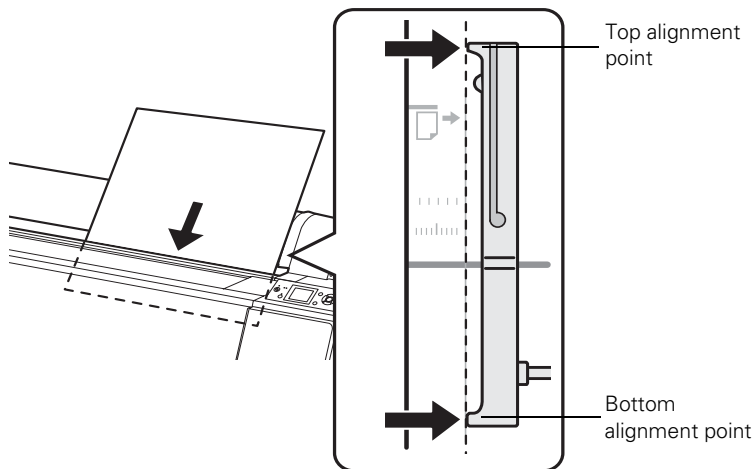



20 | Loading a Plate in the Printer

2. Make sure the printer is turned on, the  power light is not flashing, and the roll paper cover is firmly closed.
3. Press the  Paper Source button until the  Sheet icon appears on the LCD display.
4. Press the  Paper release (ePlaten) button.




5. Set the printer to the highest paper suction setting. This will help load the plate. To do that, press  to increase the suction.
6. Insert the plate (with light gray, coated side face up) into the paper slot short-edge first and slide it against the two alignment points along the top and bottom of the plate guide. Lower the plate into the printer until you feel the suction holding the plate.




7. While gently holding the plate against the guide, press the  Paper release (ePlaten) button again to close the paper release.

The **PRESS PAUSE** message appears on the printer's LCD screen when the printer detects the plate and the paper release has closed.

WARNING:

The plate edges are sharp. To avoid injury remove your hand from the plate after you press the  Pause/reset button.



8. Press the  Pause/reset button and let go of the plate. The printer loads and aligns the plate in the correct position.
9. When you see PAPER SETTINGS > ARE THESE SETTINGS OK? on the LED display, be sure to select NO PAPER SELECTED.

Note:

Since you will use multiple plates consecutively on the printing press, it is best to load plates into the printer in the same direction each time. If this is not done, there is a slight possibility of minor differences in final printing.

Unloading a Plate from the Printer

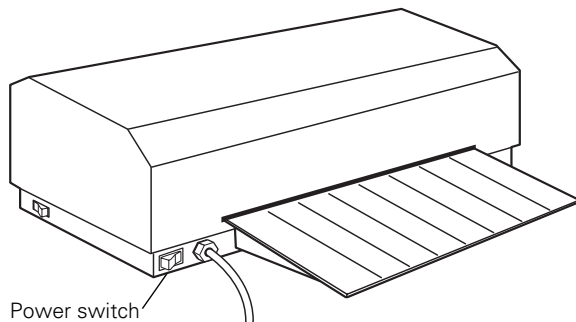
After printing is finished, the plate stays in the printer. To prevent damage to the plate, make sure it doesn't fall. Hold the plate and do one of the following:

- If you plan to print more plates, press the  Paper release (ePlaten) button. The plate currently in the printer is released and you can load another plate.
- If you're done printing plates, press the  button.

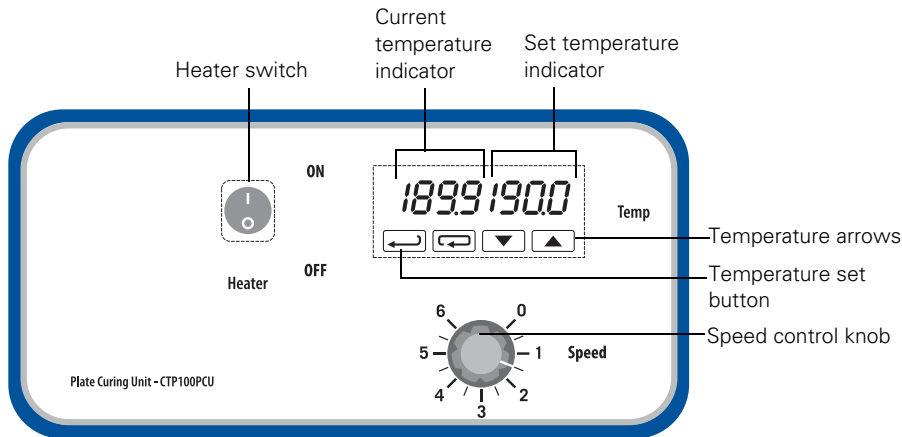
Using the PCU

After a plate is printed and prior to punching or loading it on the press, the plate must be run through the plate curing unit.

1. Turn on the power switch from the rear of the unit. This activates the transport belt.



- Turn on the Heater switch on the control panel.



- Make sure the settings are correct (see “Calibrating the PCU” on page 11).

Note:

You should not have to change the settings unless you experience a problem on the press.

- Wait for the PCU to warm up to the set temperature; this takes approximately 5 minutes. The light on the Heater switch comes on while the PCU is warming up, and then turns off and on periodically after that. The light indicates that the heating element is working to maintain a stable temperature.
- Once the PCU reaches the set temperature of 190 °C, place the plate on the input tray and push it so it engages with the roller. The plate feeds through the oven at the set speed.

If the plate is not pulled in by the roller assembly, check that the feed direction switch on the side of the PCU is set for the direction you want the transport belt to move.

Caution:

The transport belt should be kept moving when the heater is turned on. This reduces the temperature of the surface of the transport belt and improves belt life.

Never turn off the power switch on the PCU without first turning off the Heater switch. When you turn off the system, first turn off the PCU by pressing the Heater switch and let it cool to 100 °C (or less) before turning off the power switch.

Using Epson DirectPlate Aluminum Plates

Plate Curing Tips

The requirements for curing can vary with temperature, humidity, and altitude. If you don't get the number of impressions you expect, you may need to adjust the cure rate. You can usually achieve the best results with lower surface temperatures and decreased speed for less media distortion and a higher number of impressions. See "Calibrating the PCU" on page 11 for details.

Note:

Remember that the optimal settings on the control panel are 190 °C with a speed of 1.5.

Punching the Plate

Before printing, use an offline punch to create necessary guides on the plate for the press. See your press documentation or contact your Epson Authorized Reseller if you don't have a offline punch.

Press Tips

This section includes recommendations on optimizing use of the Epson DirectPlate Aluminum plates. If you currently use polyester plates, Epson DirectPlate Aluminum plates use similar dampening solutions and cleaners.

Epson DirectPlate Aluminum plates have a different structure than conventional aluminum plates, and require a longer time and more water to obtain a properly wetted surface.

Fountain Solutions

When the press starts up, the Epson DirectPlate Aluminum plates require more water than conventional metal plates. You should provide about 30 seconds of pre-dampening before turning on the ink rollers. Coat the plate with a layer of fountain solution as you load the plate to speed up the process.

The following fountain solutions are recommended (not carried by Epson):

- Prisco Fount Concentrate 142-126
- Agfa G671c
- Varn Universal Pink

Note:

If you use other fountain solutions, make sure they are **alcohol-free**.

Dampening Tips

- If a transition roller connects the dampening system and the inking system (e.g., ALCOLOR and other similar continuous-feed dampening systems), deactivate the transition roller.
- If the printing press has a pre-dampening function (for example, the Heidelberg Printmaster QM), set a higher pre-dampening level.
- If there are short breaks during the setup phase, or when the paper stack is being replaced, you should leave the dampening rollers engaged on the tray. If this is not possible, restart printing in the same manner as in the initial start-up procedure.

Ink Tips

- For best results, use highly pigmented inks to keep the amount of transferred ink at a low level and decrease the scumming effect.
- For optimum printing quality, do not mix ink with printing oil or any other printing agents that decrease tackiness.

Cleaning Plates

The following plate cleaners are recommended (not carried by Epson):

- HYDRO CLEAN™ RBP Chemical Technology, Inc.
- Varn CtP cleaner
- POSCO Hit-'n-Run emulsion plate cleaner
- Ultrachem POWA PLATE CLEANER
- Ultrachem Speedclean EXP plate cleaner
- Fujifilm PS Plate Multi Cleaner MC-E
- Prisco® Velocity Plate Cleaner

Caution:

Handle the plate with care to avoid damaging its hydrophilic coating. The use of other plate cleaners may reduce the life of the plate. Some are not compatible with aluminum plates. Non-diluted IPA or strong plate cleaning agents and some blanket cleaning materials may damage the image.

Correcting Plates

You can delete images with IWATSU Elotax Corrector OX-1. You can also use AGFA Lithostar Copyrapid Correction Pen. Also, a pencil eraser works well to delete a small section from an image.

Reusing Plates

Epson DirectPlate Aluminum plates can be reused if you would like to store them for use again to reprint the job.

If you plan to reuse a plate:

1. Remove ink from it by printing 20 to 30 impressions after disengaging the ink rollers from the plate.
2. Wash the plate with water before removal from the press.

Gumming or other special treatment is not required for reusing the plate. Store the plates in a dry, cool place.

Washing the Press

The following press washes are recommended (not carried by Epson):

- Varn EC Wash
- Ultrachem Prima Wash
- Varn News 75 Wash
- printcom® wash 202B
- Sun Chemicals SUN WASH U H8830A

Note:

Test washes by rubbing a little on a plate to see if it removes the image.

Maintenance

- See the Epson Stylus Pro 7900/9900 *Printer Guide* for printer maintenance.
- Keep the PCU trays clean to retain their low-friction properties. Make sure the PCU is turned off. Every week, wipe the trays with a paper towel moistened with a non-abrasive glass cleaner. You might notice a light gray deposit of dust on the towel; this is normal. Do not spray glass cleaner directly on the trays or the PCU.

PCU Specifications

Specification	Description
Dimensions	Width: 33 inches (838 mm) Depth: 16 inches (406 mm) Height: 10.5 inches (267 mm)
Electrical	220/240 V, 20 A male plug Requires a NEMA L6-20 receptacle The supplied cable has three conductors: Green = Earth/ground Black = AC Phase (208 – 240 VAC) White = Neutral
Plate size	Minimum 9 inches (229 mm) Maximum 24 × 30 inches (610 × 762 mm)
Plate type	PET or aluminum; 0.005 to 0.012 inch (0.0127 to 0.0305 mm) thick
Temperature range	122 to 482 °F (50 to 250 °C)
Temperature accuracy	±3.6 °F (2 °C) over the plate area
Speed/dwell time	5 to 24 inches (127 to 610 mm) per minute
Weight	40 lb (18 kg)
Console controls	Heater ON/OFF Temperature set Temperature display Speed set

Notices

FCC Compliance Statement

The PCU has been tested to be compliant with the following standards:

EN 55022:2006/A1:2007 Class A ITE emissions requirements (EU)

ICES-003 Issue 4 Class A Digital Apparatus emissions requirements (Canada)

FCC 47 CFR Part 15 Class A emissions requirements (USA)

VCCI Class A ITE emissions requirements (Japan)

AS/NZS CISPR 22:2006 Class A ITE emissions requirements (Australia)

EN 61000-3-2:2006 Limits for harmonic current emissions (equipment input current up to including 16A per phase)

EN 61000-3-3:1995/A1:2001/A2:2005 Limitation of voltage fluctuations and flicker in low voltage supply systems for equipment rated with current up to and including 16A per phase

EN 61000-6-3:2007 Emission requirements for residential, commercial, and light industrial environments – Generic

EMC Immunity:

EN 61000-6-1:2007 Immunity for residential commercial and light industrial environments - Generic

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