

Trendsetter NEWS

Installation Procedure

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Revision History

Revision	Date	Author	Comments
A	July 11, 2001	Lyle Beck	Initial release
B	Nov 30, 2001	Frances Caton	Changed name to Trendsetter NEWS, removed ITP section, added Remote Connectivity Confirmation

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1. ABOUT THIS DOCUMENT

The procedures are aimed at a field engineer already trained in the installation of the Trendsetter series of CTP devices.

2. PREPARING FOR INSTALLATION

2.1 Presite Inspection

Before going to the site to do an installation, find a copy on the Intranet of the latest version of the Site Preparation document (#73-3363A). If this device has debris removal refer to the debris removal site preparation document (#72-3560A) as well. The customer should have received a copy and completed the following requirements:

- plant air supply
- dedicated phone line for CTP
- network connection
- AC power
- trendsetter work area dimensions
- floor flatness
- environmental conditions

2.2 Site Preparation

2.2.1 Floor Plan

1. Work with the customer to establish the permanent location for the Trendsetter. Use the information on footprint and working area dimensions in the Site Preparation document.
2. Verify the following:
    - shipping crates are not unpacked
    - system location within the room with respect to the location of electrical, telephone, network, and air lines
    - workstation location
    - service access clearance around the Trendsetter
    - plate storage area
    - processor location and clearances
    - size and type of plates/processor
    - room for plate stacker or plate punch if desired

2.2.2 Path from Loading Dock to Permanent Location

The customer is responsible for the rigging and placement of the system. Explain to the company supervisor and riggers how to remove the Trendsetter and workstation from the shipping crates:

1. Make sure that an operator and a forklift that meets the following criteria will be available to move the Trendsetter to its permanent location:
   - 3000 lb. forklift minimum
   - fork width not to exceed 6 inches (15cm)
   - lateral fork movement capability if possible
2. Walk the path from the loading dock to the Trendsetter location.
3. Check that there is adequate clearance for moving the boxes and equipment.
4. Ensure that there are no obstructions in the way.
5. Check height and width of any doorways in the path for clearance.
6. Inspect the general area of the permanent location for any potential problems.
7. Confirm that the location has power, water, plates and chemistry for the processor.

2.2.4 Tools and Equipment

Items Required for Installation:

- two or three ½" sockets for opening crates
- forklift (as specified above) and operator for removing the Trendsetter from its crate
- metric hex key set
- metric and imperial wrenches
- screwdrivers
- multimeter
- grounding wrist strap
- razor knife
- loctite
- spirit level for leveling machine
- installation floor plan
- cleaning rags and solutions (99% Isopropyl alcohol and liquid soap)
- 1.7x head installation procedure (77-0074A)
- vacuum for final cleanup

Optional item:
- Pallet Jack

3. UNPACKING

Carefully open all crates and boxes. Check for any signs of damage throughout the unpacking process and record any problems immediately to Creo.

3.1 Crate Inspection

1. Inspect all delivered crates and boxes.
2. Check shockwatches on outside of crates. They should be white, not red.
3. Look for signs of damage from moisture, improper packing, tipping, dropping, stacking, etc. of crates, or any sign of mishandling.

4. Report any problems immediately to both Creo and the Delivery Company.

WARNING:
Carefully unwrap the packaging from the system to minimize static discharge from tapes and plastic.

3.2 Unpacking the Trendsetter

WARNING:
All Trendsetters must have the front and rear panels open or removed to prevent damage to the panels while being moved.

1. Open the shipping crate to allow access to the front and rear of the machine.
2. Inspect the contents for damage and record any problems on the Installation Report.
3. Verify the contents of the crate according to the shipping label.
4. Remove the boxes from the crate.
5. Remove the packaging from the top and front of the Trendsetter, enough to allow the lower front panel to be hinged up so that the forklift slots are visible.
6. Slide the forks in to a depth of 30ins/80cm **maximum** (so the forks do not damage the back panel). If you need more clearance between the open panel and the forklift, remove the spring clips from one end of the gas struts, detach the struts and hinge the panel up higher.
7. Lift the machine clear of the crate and lower it onto its wheels. Close the front panel and move the Trendsetter to its permanent location.

3.3 Unpacking the Workstation

1. Open the shipping crate.
2. Remove the workstation components.
3. Inspect the contents for damage and record any problems.
4. Verify the contents of the crate according to the shipping label.
5. Move the workstation components to the permanent location using a dolly if available.
6. Unpack the workstation components.
7. Remove the packing material from the working area.

3.4 Unpacking the Imaging Head

1. Move the Imaging Head shipping container to the Trendsetter permanent location using a dolly if available.
2. **DO NOT** uncrate the head at this time.

4. ASSEMBLY

4.1 Initial Setup

1. Remove any remaining packaging from around the top of the Trendsetter and gently lower the unload table to its horizontal position.
2. Open the lower front panel and remove the foam from under the drum and from both ends of the trailing edge bar.
3. Perform a thorough check of all mechanical components, and electrical/electronic connections to ensure all connections and assemblies are secure.
4. Open the electronics card cage and check that all circuit boards are properly seated.
5. Have the rigger install an air fitting onto the Trendsetter and connect the shop airline.
6. Set the internal pressure regulator in the fan box to 90 psi.
7. Check that the AC power at the customer-supplied receptacle is wired according to the Site Preparation document and on the same AC panel as the AC receptacle for the workstation.
8. Connect AC power. All machines come with a universal power cord and a North American connector. If the Trendsetter is installed outside of North America, replace the plug on the line cord with the correct one, which is included in the shipping kit of leveling feet and spare filters.
9. Cut the tie wraps from the bottom of the picker at both ends. . **Do not do this before air is applied**.
10. Open the bay door. Release the latch at the lower left corner by lifting the arm upwards with a slim tool and holding it in this position as the door is pulled open.
8. Cut the tie wraps at the top of the picker at both ends.
9. Level the Trendsetter from front to back; see the leveling procedure. Use the screw pins, mounts, washers and nuts supplied to level the Trendsetter on its leveling pucks. You want to make sure the machine is off its casters.

4.2 Debris Removal

1. If this machine has debris removal, refer to the Debris Removal Installation document: http://intranet.creo.com/support/docs/udrc_installation.pdf.

4.3 Workstation Installation

1. Assemble the workstation using the instructions provided by the workstation vendor.
2. Connect all peripherals. The serial cables to the Trendsetter use com3 and 4 on the multi-port cable: com3 is serial, com4 is diagnostic.
3. Plug the UPS into the AC main and connect the workstation to the UPS.
4. Connect the workstation to the network and phone line.

5. Power up the workstation; login is administrator; password is creo.
6. Create a new directory E: \Service for Notepad text files. Use this directory to log service calls, firmware upgrades, workstation upgrades and NVS backups.
7. On the workstation under Windows NT, set the present time for the local time zone.
8. Verify operation of the phone connection and modem work by dialing the modem number from another phone or by using RAS from a laptop and another line.
9. Start the Diagnostic Interface serial communications program. For hyperterminal, start/programs/accessories/communication/hyperterminal. Connect using com4, 9600 baud, all other settings default.
10. Run the setup utility to set the correct baud rate, port, etc.
11. Power down the workstation.
12. Connect the serial cables from the workstation to the Computer Serial Interface and Diagnostics ports on the Trendsetter.
13. Connect the differential SCSI cable from the workstation to the Trendsetter.
14. Make sure all cables are secure at both ends.
15. On the Trendsetter, remove the access panel to the power box. Insert the service key into the keyswitch and turn clockwise to the laser hazard position. The machine is ready to be powered up.

4.4 Imaging Head Installation

Carefully unpack the head from its shipping container. Inspect for any shipping damage.

WARNING:
Be sure to handle the head carefully at all times. Do not bump it.

1. Lower the unload table. Remove the top side trim panels: use a flat screwdriver to unlatch the front of the panels, then lift up and push to the rear of the machine to unhook the rear of the panel.
2. Raise the unload table. Remove the bracing struts from the back of the machine. Remove the 5 remaining screws from the black panel below the table and lift he panel off.
3. Connect the carriage to the leadscrew nut. The fastener is a setscrew in the top of the nut.
4. Remove the flextrack from the static bag packaging. Place the cables to the side to allow clear access to the carriage.
5. For a 1.7 TEH, refer to the Head Installation Procedure 77-0074A, (http://intranet.creo.com/sapphire/77/0074A/B/77-0074A-B-PR01.pdf).
6. For a 2.0 TEH head, refer to 73-3662A. (http://intranet.creo.com/support/docs/733662A-A.pdf).

7. Complete the head installation procedure to the end of “Installing the Head on the Carriage”
8. Make sure that all cables, hoses and the cable carrier are connected to the head:
   - Cables: the wide ribbon cable will fit in two connectors on the head. Use the one with the latching tabs.
   - Air hoses: the whisker jet twist-fitting is on the head bracket. The dehumidifier is on the left side of the head. The red hose is the inlet, black is exhaust.
   - Cooling hoses: add coolant to the tank. After the machine is powered up, the level will drop and more will be needed.

5. CONFIGURATION

5.1 Network

1. Power up the Trendsetter.
2. Power up the workstation.
3. Confirm that the services RCTP.SVC and RCMD.SVC are installed on the Workstation. Go to Start Menu>Settings>Control Panel>Services. The status of both “Remote CTP Service” and “Remote CMD Service” should be Started and Startup should be set to Auto.

   If the services are not installed, call the Response Center with the modem phone line number and the room phone line number. The Response Center will request any additional information required and then verify that they can connect successfully.

5.2 Media NVS and HDM Parameters

Set the media type and head-dependent parameters according to the type(s) of plate the customer uses. A maximum of 8 media types can be configured.

1. Refer to the specific media technote for complete instructions.

5.3 Print Console Workstation

1. To configure the Print Console Workstation, refer to the *Configuration* section of the Print Console 2.0 Installation Guide on the Intranet or Service CD or on the root level of the PC install CD.

6. HEAD ALIGNMENT AND SYSTEM TESTING

Complete the imaging head alignment by following the Head Installation Procedure, starting at “Positioning the Head”.

1. Perform a focus series to determine the correct surface depth value.
2. Check the Autofocus performance.
3. Check to make sure that the exposure is correct.

4. Check and adjust bmslope and bmcurve.
5. Check the head tilt.
6. Check the plot registration.
7. Check the processing line and find the fog point for the plate types and thicknesses to be used.
8. Check for banding.
9. For banding problems, see document 77-0034A - Thermal Exposure Head Micro-banding Troubleshooting Procedures.
10. When the system is operating properly, proceed with cleanup in preparation.
11. If there are problems, contact your team leader, local specialist, PSM, or Product Specialist to help resolve the problems.

7. CLEANUP

1. Vacuum inside of the machine.
2. Replace all panels.
3. Clean exterior of machine.
4. Install the Plate Alignment Labels on the load table. Refer to Appendix D for specific instructions.
5. Remove all packing material.
6. Vacuum surrounding area.

8. OPERATOR TRAINING

Before leaving the customer site, go over the Operator Training Checklist in Appendix A, with the operator(s) so they are clear on how to use and maintain the Trendsetter.

APPENDIX A - Operator Training Checklist

After system installation and before leaving the customer site, train the operators so that they can successfully demonstrate or describe the following procedures to Creo personnel.

Start with the machine powered down and the workstation software not running.

Tools Required

- Operators Manual
- Filter order list
- Screw Driver – to remove service panels
- Plates
- Files to send for imaging

At the conclusion of this training the operator will be able to demonstrate or identify the following:

Component Overview

Engine	
LEC	spring loaded clamps used to hold the leading edge of the plate to the drum
TEC	magnetic clamps used to hold trailing edge of the plate to the drum
Roller	blue roller used to roll the plate flat to the drum to prevent plate pucker which will affect the image
Plate loading areas	For automatic and manual loading (Reference TS NEWS Operator's Manual) • Show how to load plates using plate alignment labels • Show how to configure the Autoloader for Manual Bypass Mode
Load Table – Reference TSNEWS Operator Manual	
Sensors	detects plates in the load bay
Plate ledge	air knife and plate separator teeth
Manual by-pass door and door latch	

Picker	
Mylar	• Prevents vacuum cups from marking positive media • Must be changed at least every three months
Unload table	
Sensor –	detects when the plate is clear
Power box	
Preventing damage from static	use a static strap when inside the powerbox

Safety

- Abort Switches/All stop buttons – show location
- Key switch – the location of it and how to use it while servicing
- Door interlock – Omron switch and Omron key
- Laser safety

How to clean

- Edge detect strip/s Reference TS NEWS Operator Manual
- Drum roller Reference TS NEWS Operator Manual

How to replace

- Compressed air filters
- Fan box filters
- Reset breakers on Power Box
- Dessicant on Autoloader Reference TS NEWS Operator Manual

Indicate the location and operation of the power switch

- Explain the device will “remember the state” it was in (i.e. plate on drum)

Indicate the location and operation of air for:

- House air – shut-off
- System air – Quick disconnect [CAUTION]

Start the Workstation software

- 3 to 5 minute laser initialization

Demonstrate how to remove and replace service panels

Configure the Workstation to submit manual plate selection

- Manual or automatic unload based on plate size

Configure the Workstation for correct print setup information

Demonstrate how to change spool folder locations

Submit and queue files from the workstation

Cancel a file during imaging

Load and unload a manual plate job

- Single plate only on right side
- Alignment label

Differences between Economy Mode and Express Mode

- Economy waits for second job – saves second plate
- Express unloads if only one job – wastes second plate
- Submit single economy job – show unload using Print Console

Load plates

- First plate imaged is always on the right
- Alignment labels – how to align plates using them

Run some jobs

- Use Print Console to describe sequence of events

Loading Broadsheet plates

- Show how Print Console indicates one or two sets of plates

Plate fly-off and how to clear it

- Safely remove plate from drum
- Move TE clamps to park position
- Clear Workstation errors

Customer name: _____

Trendsetter S/N: _____

Operator names: _____

_____

_____

_____

_____

_____

Creo Representative: _____

Customer Rep: _____

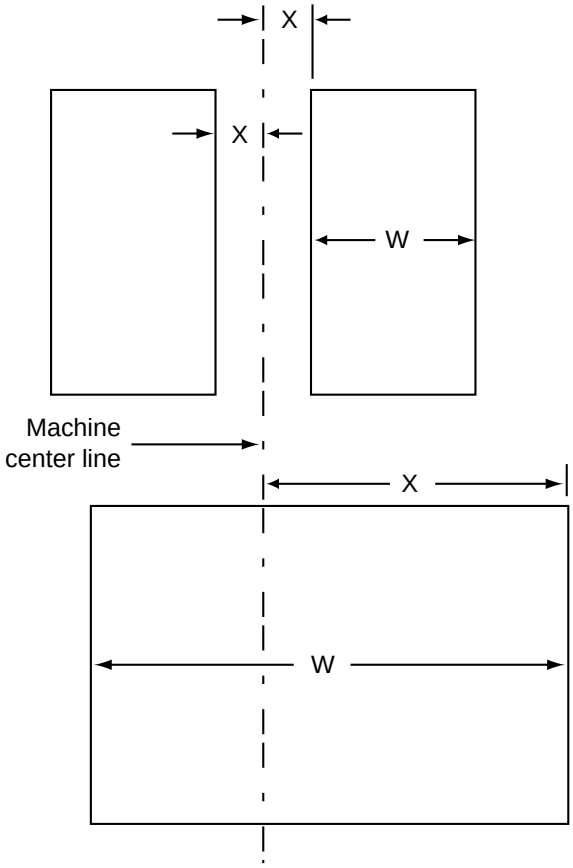
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APPENDIX B - Related CreoScitex Documentation

Document:	Creo part number:
Trendsetter NEWS Site Preparation and Requirements	73-3363A
Thermal Exposure Head Installation Procedure (TEH 1.7)	77-0074A
TEH 2.0 Installation Procedure	73-3662A
Thermal Exposure Head Micro-banding troubleshooting procedures	77-0034A
Trendsetter NEWS Operator Manual	03-4169A
Procedure Configuring New Media	See Media website on the Service CD
Print Console 2.0 Installation Guide	73-3305C under Device Control on the Service CD

APPENDIX D - Plate Alignment Label Placement - Trendsetter NEWS

All distances are in mm and reference the following diagram:



- If W <= 400, distance X = 221 - W/2
- If W > 400, distance X = 20

Place the first label W+X to the right of the center line. The second label, for the smaller broadsheets, is X to the left of the center line