Kodak

Trendsetter NEWS GMCE

Installation Procedure

Document Number
719-00834A-C-PR01

11 Oct 2007

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Revision History

Revision	Date	Author	Comments
A-A	26 Jan 2007	Frank van Eerdt	Initial version
A-B	14 May 2007	Andrew So	Fixed typographical error in workstation static IP address
A-C	11 Oct 2007	Ken Johnston	Removed Operator Training appendix; replaced with reference to *Trendsetter 400/800, AL, CL, & NEWS Operator Onsite Training Checklist*.

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1. ABOUT THIS DOCUMENT

This document is a guide for a field engineer who is installing a Kodak® Trendsetter® NEWS™ GMCE device. It is assumed that the person following this document has completed training on installation of Trendsetter NEWS devices.

2. PREPARING FOR INSTALLATION

2.1 Site Preparation

One month before the installation, a pre-installation site inspection should be done to ensure a smooth and timely installation. Please refer to the *Trendsetter NEWS Family Site Preparation Guide* for more information.

http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/nav/install.htm#site_prep

Prior to the installation date, obtain a copy of the signed, completed site preparation checklist (Appendix C of the site preparation guide) and confirm that the customer has completed the requirements, including:

- Acceptable air supply quality (correct pressure, no water or oil in supply line)
- Dedicated phone line or preferably broadband Internet connection for remote support
- Network connections
- Electrical requirements
- Floor space requirements
- Trendsetter output device work area dimensions
- Weight and level floor requirements
- Environmental conditions
- Universal debris removal cabinet (UDRC) requirements

2.2 Required Tools and Equipment

- Two or three ½-inch sockets for opening crates (for air shipments only)
- Metric hex key set
- Screwdrivers
- Grounding wrist strap
- Loctite® adhesive
- Installation floor plan
- Vacuum for final cleanup
- Printed copy of the *Trendsetter 400/800, AL, CL, & NEWS Operator Onsite Training Checklist* (73-00145A—see "Related Documents")
- Forklift and operator (as specified in the site preparation guide) for removing the Trendsetter output device from its crate
- Metric and imperial wrenches
- Multimeter
- Razor knife
- Spirit level for leveling device
- Cleaning rags and solutions (99 percent isopropyl alcohol and liquid soap)
- Service dongle

2.3 Related Documents

- *Trendsetter 400/800, AL, CL, & NEWS Operator Onsite Training Checklist* (73-00145A)
  http://techplanet.creo.com/output/computer_to_plate/trendsetter_3244/nav/install.htm#install_procs
- *Trendsetter NEWS Family Site Preparation Guide (GMCE)* (707-00595A)
  http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/nav/install.htm#site_prep
- *UDRC Site Preparation Guide* (725-00089A)
  http://techplanet.creo.com/output/heads/debris_removal/nav/install.htm#site_prep
- *Thermal Head 1.7 Installation Procedure* (77-0047A)
  http://techplanet.creo.com/output/heads/thermal/nav/install.htm#install_procs
- *Thermal 2 Head Installation Procedure for Trendsetter output devices* (719-00585A)
  http://techplanet.creo.com/output/heads/thermal_2/nav/install.htm#install_procs
- *UDRC Installation Procedure* (750-00091A)
  http://techplanet.creo.com/output/heads/debris_removal/nav/install.htm#install_procs
- *GMCE Intel Pro/1000 MT Server Adapter Installation, Configuration and Testing* (719-00735A)
  http://techplanet.creo.com/output/device_control/print_console/nav/all_versions/install.htm#install_procs
- *CFL Setup Guide*
  http://techplanet.creo.com/output/device_control/feature_licensing/nav/proced.htm#set_up

- *Trendsetter NEWS Installation Test Procedure*
  http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/nav/install.htm#accept
- *Trendsetter AL, CL and News Processor Interface Guide* (719-00694A)
  http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/nav/proced.htm#processor
- *Trendsetter NEWS Preloader Interface Installation*
  http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/nav/install.htm#install_procs
- *Trendsetter NEWS Visual Reference Guide* (732-00111A) or *Trendsetter NEWS SA Visual Reference Guide* (732-00112A)
  http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/nav/reference.htm#user_guides
- *Trendsetter Output Devices Safety Guide* (761-00029A)
  http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/nav/reference.htm#user_guides

2.4 NEWS 200 Differences

The Trendsetter NEWS 200 device uses two imaging heads (master and slave) mounted on carriages joined together by a rigid link. The distance between the heads is a known value. There is a single leadscrew and nut as with single-head Trendsetter output devices.

The nominal head spacing is 442 mm for typical broadsheet plate applications, with an alternate spacing of 401 mm for panorama/doubletruck dedicated applications.

The carriage travel limit is approx 713 mm for the 442 mm spacing, compared to approx 1155 mm for a single-head device.

There are two GMCE boards in the power box:

- The master GMCE board controls the plate-handling and workstation signals as well as the imaging on the master head.
- The slave GMCE board controls only the slave head.

There are two CAT 5E or CAT 6 Network cables between the NEWS 200 and the workstation, one for each GMCE board.

The master head is on the carriage closest to the home side. The slave head is on the away carriage, attached directly to the leadscrew nut, as on a single-head machine.

In operation, in a typical broadsheet plate application, the plates will be positioned so that the distance between the plates is close to matching the distance between the heads. The plates will be loaded on the drum and the carriage will move as both heads search for an edge simultaneously. One head will find an edge first and the carriage will retrace to verify the edge. It will then advance further until the second edge is found and verified.

The carriage will return to the point at which the first edge was found, which may be either plate, and prepare to begin imaging. At some point after imaging is in progress,

the carriage will arrive at the second edge, and the head for that plate will begin imaging also. The carriage will continue until imaging is complete on both plates

In the case of a single large plate, the width of the plate will be divided exactly in half, and each head will be assigned the appropriate part. The master head will detect the edge and the slave will use a virtual edge in the center of the plate. Either head may begin imaging first, depending on the width of the plate and the spacing of the heads.

In the center of the plate, the images produced by each head will merge. This stitch line should be imperceptible. For instructions on how to adjust the geometric parameters to eliminate the stitch line if necessary, see the following procedure on TechPlanet:

http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/content/docs/news200_gc_stitching.htm

For a single plate that is not too wide, it may be possible to image with only the master head, avoiding stitching. The limitations are the travel range of the carriage, which is much less than a single head device, and the need to position the plate correctly on the drum registration pins.

3. UNPACKING

Carefully open all crates and boxes.

Throughout the unpacking process, check for any signs of damage and notify immediately to Kodak immediately about any problems..

3.1 Crate and Contents Inspection

Inspect all delivered crates and boxes:

- Look for signs of damage from moisture, improper packing, tipping, dropping, stacking, and so on of crates, or any other sign of mishandling.
- Verify the contents of the crate and boxes according to the shipping label.
- Report any problems immediately to both Kodak and the delivery company.

3.2 Unpacking the Trendsetter Output Device

1. Open the shipping crate to allow access to the front and back of the device.

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

2. Inspect all contents for damage and record any problems on the Installation Report.
3. Remove boxes and other items that are not attached to the device from the crate.
4. Remove enough of the packaging from the top and front of the Trendsetter output device so that:
   - The lower-front panel can be hinged up.
   - The forklift slots are visible.

NOTICE: All Trendsetter output devices must have the front panel open or removed to prevent damage to the panels while the device is being moved.

5. Measure 80 cm (30 in.) from the tip of the forks on the forklift and mark this location on the forks with tape or another method.

   NOTICE: The forklift must have a minimum 1,365 kg (3,000 lb.) capacity, the width of the forks must not exceed 15 cm (6 in.), and the span should be 51 cm (20 in.).

6. Slowly and carefully slide the forks in to a depth of *80 cm (30 in.) maximum* (so the forks do not damage the back panel).

   If you need more clearance between the open panel and the forklift:

   a. Remove the spring clips from one end of the gas struts.

   b. Detach the struts.

   c. Raise the hinged panel higher.

7. Lift the device clear of the crate and gently lower the device onto its wheels.

8. If you removed the front panel gas struts and clips, reinstall them.

9. Close the front panel and move the Trendsetter output device to its permanent location.

3.3 Unpacking the Workstation and UDRC (if applicable)

1. Open the shipping crates and remove the contents.

2. Verify the contents, inspect for damage, and record any problems.

3. Move the workstation and other components to the permanent location using a dolly if one is available.

4. Unpack the workstation and other components.

5. Remove the packing material from the working area.

4. ASSEMBLY AND CONFIGURATION

4.1 Initial Setup

1. Remove any remaining packaging from around the top of the Trendsetter output device.

2. Remove the brackets holding the unload table in the upright position at the back of the output device.

3. Lower the unload table to its horizontal position.

4. If there is a rotator, use the brackets from step 2 to secure the rotator to the back panel.

5. Open the lower-front panel.

6. Remove the foam from under the drum and from both ends of the trailing edge bar.
7. Cut the white cable ties from the bottom of the picker at both ends.
8. Close the front panel.
9. Release the latch at the lower-left corner of the bay door by lifting the arm upwards with a slim tool.
10. Hold the arm in this position while you open the bay door.
11. Cut the white cable ties at the top of the picker at both ends.
12. Make sure the unload table is down so that the top side-trim panels can be removed.
13. To remove the top side-trim panels:
    a. Use a flat screwdriver to unlatch the front of the panels.
    b. Lift up the panel at the front and push it towards the back of the device to unhook the back of the panel.
14. Connect the air to the Trendsetter output device at a minimum of 100 psi and regulate the pressure down to 90 psi with the adjustment valve on the back of the machine.
15. Connect the power cord of the Trendsetter device to the AC mains (200-240 V) to ground the device.
16. Level the Trendsetter:
    a. Adjust the height of the attached feet to level the Trendsetter.
    b. Ensure the machine is elevated off of the casters.
    c. Ensure that the frame has not twisted due to height differences between the feet.

4.2 Thermal Head

The Trendsetter output devices are shipped from the factory with the thermal heads installed.

1. To access the thermal head, make sure the top side-trim panels are removed to access the screws holding the rear panel in place.
2. Remove the screws and black top panel.
3. Make sure all cables are secure at both ends.
4. Remove the brackets that hold the head and the carriage in place.
5. Inspect for any shipping damage and note on the Installation Service Report.
6. Make sure that:
    - The locking cam holds the head tightly in place.
    - All cables, hoses and the cable carrier are connected to the head.

4.3 Adding Coolant and Air Filter

1. To access the cooling tank:

   a. Remove the panel from the fan box—push to release it.

   b. Remove the rear-side panel by loosening or removing the four screws through the keyhole slots in the panel.

2. Use a funnel to add coolant to the upper level marked on the tank.

   More coolant is required for the NEWS 200 output device because there is a double-capacity radiator.

   Note: After the device is powered up, the coolant level will drop, so you will need more coolant at that time.

3. Install the intake air filter in the fan box.

4.4 UDRC Installation (if applicable)

The UDRC is optional, depending on the media to be used.

Refer to *UDRC Installation Procedure* (750-00091A) if applicable.

4.5 Workstation Installation and Configuration

1. Assemble the workstation according to the vendor installation document provided with the workstation.

2. Check that the customer AC receptacle is wired correctly (see the *Trendsetter NEWS Family Site Preparation Guide*).

3. If a UPS is available, plug the UPS into the AC main and connect the workstation to the UPS. Otherwise, plug the workstation power into the AC receptacle.

4. Plug in the navy blue customer dongle shipped with the workstation.

5. Connect the workstation to the network and phone line.

6. Connect the blue CAT 5E shielded cable between the Trendsetter and the Intel® PRO/1000 MT Server Adapter.

7. For the NEWS 200 output device, plug the second CAT 5E cable into the other Intel PRO/1000 MT Server Adapter.

8. Turn on the workstation.

9. Log in under the Administrator account.

10. The workstation is preconfigured with static IP address 192.168.100.209 and subnet mask 255.255.255.128 for the GMCE connection. Consult with the customer's IT department about the IP addressing scheme used in their network to make sure there is no conflict.

11. If there is a conflict, follow the instructions in Section 2.3, "Configuring the Adapter" in the *GMCE Intel Pro/1000 MT Server Adapter Installation, Configuration and Testing* document (719-00735A) for an alternate IP address arrangement.

12. The workstation should be preinstalled with the controlled release (CR) for the output device connecting to it. If this is not the case, install the correct CR package.

13. Insert the Site Installer CD that is shipped with the Trendsetter device into the CD-ROM drive of the computer. The CD should run automatically. If it does not, run **Setup.exe** from the CD drive. This utility will copy the NVS parameters used in the factory to the device workstation.

14. Follow the prompts to complete the installation.

    You will be prompted to enter a secondary backup location—configure an accessible network location. The system will automatically backup the GMCE NVS parameters to this location to guard against accidental loss of the NVS parameters.

15. Install the Customer Device License if it has not already been installed on the workstation. You can find the Device License on the Site Installer CD or by doing a search on to http://master.creo.com/cflwebgenerator/. For more information, refer to the *CFL Setup Guide* on TechPlanet.

16. Turn on the Trendsetter and verify that the device is communicating with the workstation by looking for the device prompt in Service Shell and messages in Print Console®.

    If communication is not available; insert your service dongle and run the Host Configurations wizard by right-clicking the Service Host icon in the system tray in the bottom of your screen.

    For the Trendsetter NEWS 200:

    Both **GMCE0** and **GMCE1** should be visible in the second column.

    The boot-up sequence is displayed under **GMCE0**. This is the master MCE board, controlling the Master head as well as all the mechanical components.

    The firmware version, the `NEWS>` prompt, and most of the firmware commands and parameters are the same as on a single-head NEWS device.

    a. Click on **GMCE1**.

    b. Verify that there is a `MSFW>>` prompt.

    This is the Slave GMCE board that runs different firmware from the master and controls the Slave head.

5. HEAD ALIGNMENT VERIFICATION AND SYSTEM TESTING

Refer to the *Thermal Head 1.7 Installation Procedure* (77-0074A) or *Thermal 2 Imaging Head Installation Procedure* (719-00585A) to verify the head alignment.

If there are problems, contact the Response Centre to open a tech support case.

6. PLATE POSITIONING

Place plate alignment labels on the load table based on the plate positioning information in the “Plate Registration/Positioning” section of the *Trendsetter NEWS Family Site Preparation Guide*.

7. PROCESSOR ALIGNMENT

1. Move the Trendsetter NEWS device into place so that is lined up with the processor.
2. Leave a gap of about 20–30 mm from the end of the Trendsetter device’s unload table to the entry of the processor.
3. Set the table height so that it is about 5–10 mm higher than the processor entry so that the plate transfers smoothly into the processor. Adjust the feet under the output device change the table height or raise the black support bracket attached to the rear panel.

   Note: For pre-heat ovens with chain link conveyors, it may be advisable to install a low-friction roller bridge between the table and the oven in order to be able to push more of the plate at fast speed off the table.
4. Align the unload table side-to-side according to the plate sizes to be used:

   a. For broadsheet plates only, or for panorama plates wider than 750 mm, the center lines of the output device and processor should coincide.

   b. For panorama plates 450–750 mm wide only, the Trendsetter should be offset by 137 mm to the left of the processor center line.

   c. For broadsheets and 450–750 mm panorama plates, the unload extremities are defined by the right side of the panorama and the left side of the away broadsheet. It may be necessary to load the plates closer to the center of the load bay than the optimum positions in order to remain within the total width of the processor. The output device should be aligned with a small offset that provides clearance for all plates.

      Note: The NEWS 200 configuration requires a 250–350 mm transition bridge attached to the processor in-feed panel. (This transition bridge may be provided by the processor manufacturer or by Kodak service.)

8. PLATE PUSH SETTINGS

8.1 Non-Rotator Unload Table

The parameters for pushing the plate off the table and into the processor or oven are:

`set exit fastdistance`	typical value 850 mm, default 1000 mm
`set exit slowpush`	typical value 20 mm, default 20 mm
`set exit velocity`	typical value 13 mm/s, default 13 mm/s

The `fastdistance` parameter should be set so that the plate is pushed at fast speed to a point just short of the processor roller pinch point or oven conveyor. The pusher then switches to the slow speed, which should be slightly less than the processor speed.

The `slowpush` parameter should be enough to ensure that the plate reaches the pinch point and continues for a short distance beyond, with the plate pulling away. The `slowpush` distance should be small enough that if the processor is not running, the plate buckles slightly, but remains close enough to the table to cover the plate sensor.

The `velocity` parameter should be slightly less than the processor speed. A visual assessment is sufficient.

8.2 Rotator Unload Table

The parameters for pushing the plate off the table and into the processor or oven are:

`set exit fastdistance`	typical value 1430 mm, default 1000 mm
`set exit slowpush`	typical value 20 mm, default 20 mm
`set exit velocity`	typical value 13 mm/s, default 13 mm

9. PRELOADER (OPTIONAL)

All Trendsetter NEWS output devices are shipped with the preloader interface kit installed and tested. Two cables from the preloader connect to the interface board and to the cable mounted beside the board. The cables are long enough to pull the preloader away (it's on casters) to allow access to the load bay and the lower panel.

Check if the preloader option is enabled in the firmware:

```
access enable

option
```

To enable the feature:

```
option preloader enable
```

To verify the status of the *Trendsetter* NEWS and preloader:

```
Preloader
```

If the Trendsetter NEWS is equipped with Dual Bay hardware, check if the option is enabled:

```
access enable

option
```

To enable the feature:

```
option Dual-Bay enable
```

Important: Starting with the rollout of the GMCE Trendsetter NEWS and Print Console 4.0, the term "bay 1" refers to the main Trendsetter plate bay, and the term "bay 2" refers to the preloader plate bay. This is the reverse of the naming

convention used with dual-bay MCE Trendsetter NEWS devices and Print Console 3.*x*.

More information on the Dual Bay Option can be found on the dedicated Dual Bay page:
http://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/content/docs/dualbay_option.htm

10. CLEANUP

1. Vacuum the inside of the device.
2. Replace all panels.
3. Clean the device exterior.
4. Remove all packing material.
5. Vacuum the surrounding area.

11. CHECK RAS

Open a case with the Response Centre and ask for a RAS check to make sure remote connectivity is functioning properly and the newly installed device is set up in RSS.

12. INSTALLATION TEST PROCEDURE

1. Perform the ITP as described in the *Trendsetter NEWS Installation Test Procedure* and complete the *Trendsetter NEWS Installation Test Procedure Checklist*.
2. Send the signed ITP checklist to Kodak for confirmation of device acceptance.

The ITP procedure and ITP checklist can be found on the Trendsetter NEWS installation page on TechPlanet:
https://techplanet.creo.com/output/computer_to_plate/trendsetter_2637/nav/install.htm#accept

13. OPERATOR TRAINING

Before leaving the customer site, go over the *Trendsetter 400/800, AL, CL, & NEWS Operator Onsite Training Checklist* (732-00145A—see “Related Documents” on page 2) with the operators so that they are clear on how to use and maintain the Trendsetter NEWS output device.