Installing an Autoloader Ready (AL-Ready) VLF Trendsetter

It takes one day to install an AL-Ready VLF Trendsetter shipped new from the factory.
[To upgrade and AL-Ready VLF Trendsetter with the Autoloader option, see the Upgrading an AL-Ready Machine page]
[To perform a retrofit, see the Field upgrade page]
[To install a complete VLF Trendsetter AL, see the Factory Install page]

Note: These procedures are designed only as a guide to assist field engineers. It is assumed that any person installing a VLF Trendsetter and/or AL options has completed CreoScitex training on the product.

Installation | Printed Documents | Tools

Installation Procedures

1. Check the site preparation
2. Unpack & position
3. Install the base VLF Trendsetter
4. Install the imaging head. See the Thermal Head installation page.
5. Install skins and guard rail
6. Clean up
7. Install the Workstation
8. Test the system (not yet available)
9. Align the head. See the Head Installation procedure(doc #77-0074A)
10. Configure the system.
11. Complete the Installation Test Procedure (ITP): for Print Console (38 KB)
12. Train the operator. See the Operator checklist (18 KB).

Procedure Checklist (Excel file) (91 KB): a summary of the procedures for installing an AL-Ready VLF Trendsetter.
Note: This checklist must only be used as a reference sheet for those who are fully trained and experienced with installation of the VLF TS AL system.

Check the Site Preparation

Before unpacking the crates, walk through the site to ensure that all the necessary preparations have been made.

1. ☐ Check that the site layout meets all the requirements of the Site Preparation Checklist (Appendix A of the Site Preparations & Requirements document 73-3319A).
    - plant air supply
    - dedicated phone line for workstation communications
    - network connection
    - AC power
    - floor flatness
    - environmental conditions
    - location of the VLF Trendsetter: is there enough space to add the AL options? are the air/power/telephone lines easily accessible?
    - service access clearance around the entire VLF Trendsetter system
    - location of workstation
    - area for plate storage
    - location of processor, and clearances
    - area for plate stacker or plate puncher, if applicable
2. ☐ Verify the future system configuration with the customer (SCU or MCU, conveyor type, system orientation, etc).
3. ☐ Verify the size and type of plates that the customer will be imaging, and the type of processor.
4. ☐ Check that the shipping crates have not been unpacked.
5. ☐ Explain to the company supervisor and the riggers how to properly move the VLF Trendsetter. The customer is responsible for rigging and placement of the system. Make sure that an operator is available, and that the forklift meets the criteria in the Site Preparation Checklist (Appendix A of the Site Preparations & Requirements document 73-3319A):
    - fork width not exceeding 6" (15cm)
    - lateral fork movement capability is recommended
6. ☐ Walk the path from the loading dock to the permanent location of the VLF Trendsetter, checking that there is adequate clearance along pathways and through doors, with no obstructions.
7. ☐ Gather the necessary documents, hand tools and heavy moving equipment required for the installation. The number of tools needed may vary depending on the size of the crew.

Supplied by Customer

The following heavy moving equipment must be arranged with the customer:

- forklift -- to move the VLF Trendsetter (1800 Kg / 4000 lbs)

Two lifting bars and an adjustable foot wrench will be shipped with the VLF Trendsetter.

The customer must also supply a floor layout diagram (from Site Preparations & Requirements document 73-3319A).

Supplied by CreoScitex CSE

- Two or three 1/2" sockets with handles (for opening crates) **or** a cordless drill with 1/2" socket
- Completed site preparation checklist (from Appendix A of Site Preparations & Requirements document 73-3319A).
- Thermal Head Installation Procedure 77-0074A
- Service Engineer's toolkit 90-1005A (including multimeter, grounding wrist strap, etc)
- Lifting jacks (kg) to remove the castors

Unpack the AL-Ready VLF Trendsetter

1. ☐ Inspect all delivered crates and boxes. These will normally be located in the customer's loading dock area.
   - Check that all the shipped crates have been received.
   - Check any shock-watches on the outside of crates. They should be white, not red.
   - Look for signs of damage from moisture, improper packing, tipping, dropping, stacking, etc. of crates, or any sign of mishandling.
2. ☐ Record any problems immediately on the Installation Report form and report them to both CreoScitex and the Delivery Company.
3. ☐ Unpack the VLF Trendsetter.
   a. Open the crate to allow access to the front and rear of the machine.
   b. Remove all packages from the crate and put most of them on the conveyor's foam pad or in a cassette (if ordered):
      - adjustable foot wrench
      - fasteners
      - guard rail assemblies (2) including base plates and struts
      - lifting bars
   c. Remove the temporary table supports.
   d. Remove the front center panel and both rear panels.
   e. Raise the hose cage to gain access to the forklift rails.

   WARNING! Moving the VLF Trendsetter by forklift when its front and rear panels are still on will damage the machine.

   f. Have the forklift operator remove the VLF Trendsetter from the crate. Lift it carefully as one side is heavier than the other. The machine can either be placed on the floor for rolling on its castors, or be moved by forklift directly to its permanent location.
4. ☐ Unpack the workstation.
   Move the workstation components to their permanent location using a dolly or pallet jack.

   Note: Do not unpack the workstation until you are ready to install it.
5. ☐ Unpack the imaging head.
   Leaving the head in its crate, move it to its permanent location using a dolly.

   Note: Do not unpack the imaging head until you are ready to install it.

AL-Ready VLF Trendsetter

Objectives:

1. ☐ Position the VLF Trendsetter in its approximate location.
    a. Using a measuring tape, check the minimum distance to the nearby walls or posts.
    b. Roll the machine into the correct position.
    c. Verify the distance on the floor layout diagram.
2. ☐ Remove all seven side panels from the machine.
   This will give access to the engine, fan box and power box. Place the panels in a safe location.
3. ☐ Remove all internal packing material, including the counterweight restraint strap.
4. ☐ Open the electronics card cage and check that all circuit boards are properly seated.
5. ☐ Set the coarse VLF Trendsetter height using the 3 adjustable feet.
   Lay on the floor, reach under the machine, and rotate each adjustable foot down two full turns from the fully 'up' position. Use the adjustable foot wrench as required.

   Note: The position of the VLF Trendsetter will probably shift slightly when the castors are removed. It will need to be realigned.
6. ☐ Position the 4 lifting jacks (#92-0084).
    a. Place the lifting bars (#56-3266) through the square holes in the engine casting.
    b. Check that the hose tray is up out of the way of the lifting bars.
    c. Slide the lifting jacks into the tube ends. Make sure the jacks go in all the way.
7. ☐ Install the table bumpers that were removed for shipping. The table bumpers for some VLF Trendsetters rest on the front panels. For those panels, you must replace the panels after installing the bumpers. For other machines, the bumpers rest on the top frame.
8. ☐ Raise the VLF Trendsetter and remove the castors.
    a. Carefully raise the jacks until the bars are bearing against the top of the engine casting holes at all 4 points.
    b. Place a wood block under each corner of the VLF Trendsetter for safety.
    c. Raise the jacks, alternating between the 4 jacks so that the machine is kept level.
    WARNING! Do not let any of the lifting points get significantly higher or lower than the others, as this could twist the frame or cause instability.
    d. Stop lifting when the castors are off the ground and there is room to remove the castor screws.
    e. Check that the wood blocks are still positioned correctly under the corners of the machine.
    f. Remove the 4 screws holding each castor to the VLF Trendsetter frame. Save the castors at the site in case the machine has to be moved again in the future.


Using jacks to raise and lower the VLF Trendsetter

8. ☐ Lower the VLF Trendsetter.
   a. Make sure that the power box and fan box pucks (pod feet) are fully up. If they are resting on the ground, raise the VLF Trendsetter using the jacks and rotate the adjustable feet down (1 full rotation = 7 mm height).
   b. Lower the jacks until the lifting bars are no longer touching the engine casting.
9. ☐ Check that the engine is level.
   a. Place the spirit level along the casting under the drum and take a reading.
   b. Rotate it 90° and place it on a motor plate beside the drum. You may need to open the hood to place the level. Be careful of the p-door.
   c. ➡ To adjust the engine level:
      - Using the adjustable foot wrench, rotate the appropriate adjustable foot in the direction of least deflection
      - Recheck the engine level
10. ☐ Recheck the centerline position. For SCU installations only, also recheck the floor plate position.

    ➡ To adjust the alignment of the VLF Trendsetter:
    - Lift the VLF Trendsetter evenly, using the jacks, until the adjustable feet are all 3 mm off the floor.
    - Push, pull or bump the VLF Trendsetter and/or the jacks until the position is correct.
      Sit on the floor an kick on the corner of the base frame. Don't push or pull on the table or the fixtures. The machine will slide on the white plastic plates.
    - Lower the jacks evenly until they are loose.
    - Recheck the centerline position. For SCU installations only, recheck the floor plate position.
    - Recheck the distance from the edge of the table to the conveyor and to the processor.
    - Repeat the adjustment if needed.
11. ☐ Adjust the power box and fan box pucks (pod feet).
    Rotate the pucks down by hand until they are just touching the ground, then rotate them down one more turn.

    WARNING! Do not lower the pucks further or the frame will twist.
12. ☐ Remove the jacks and lifting bars.
    Store the lifting bars onsite for future use, usually in the back of the machine.
13. ☐ Lower the hose tray to its lowest position.

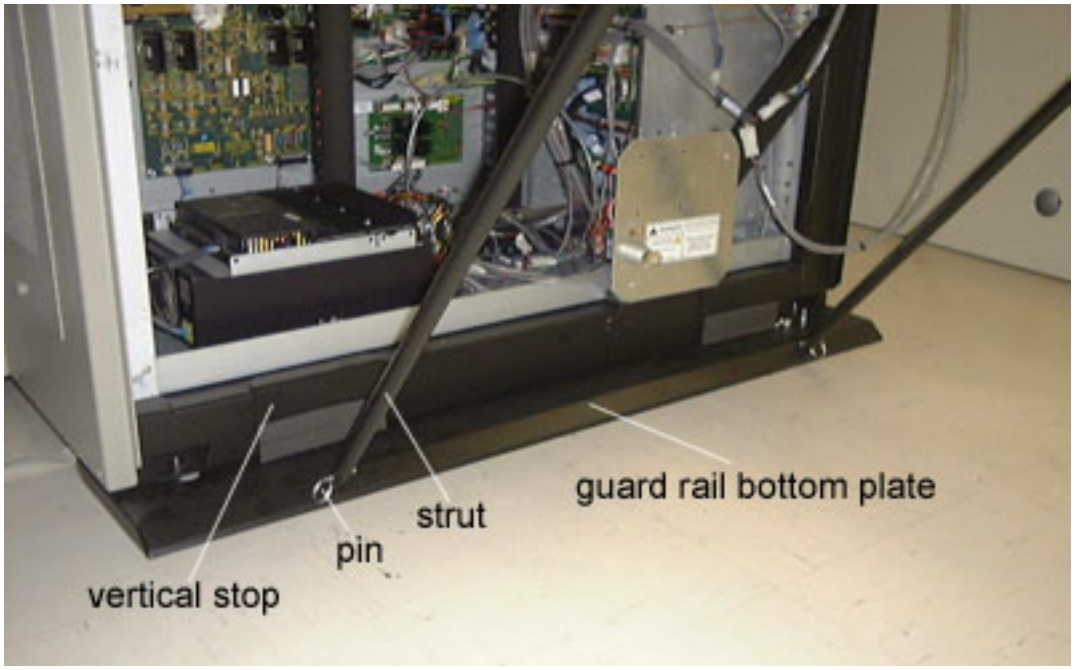
14. ☐ Check the shop air system pressure, using the air supply gauge (#92-0373A).
    See the *Air Supply Qualification Procedure* in Section 6.1 of the VLF Trendsetter AL site preparations & requirements.
15. ☐ Install an air fitting onto the VLF Trendsetter.
    a. Check that the Autoloader shut-off valve, in the supply line after the regulator, is OFF.
    b. Connect the shop airline.
    c. Set the VLF Trendsetter internal pressure regulator in the fan box to 80 psi. You may need to remove an access panel.
    d. Replace the access panel if it was removed.

Skins and Guard Rail

Before installing the skins and guard rail:

- The VLF Trendsetter must be correctly installed. See the Base VLF Trendsetter installation procedure.
- The imaging head must be installed. See the Head Install procedure (doc #77-0074A).

1. ☐ Check that the AC power is OFF.
2. ☐ Install the guard rail.
   a. Open the p-door and raise the table.
   b. Remove the two front panels from the VLF Trendsetter.
   c. Slide the lower support panels under the front bottom edge of the machine until the vertical stops butt up against the machine. (When the front panels are replaced, their pressure will hold the plate firmly in place.)



Lower support panel in position

   d. With a helper, hold each guard rail assembly in place
   e. Insert the bottom supports.
   f. Fasten the top support.
   g. Connect the two cables from the righthand guard rail assembly to the receptacle on the top surface of the VLF Trendsetter.
   h. Install the cover bracket and the cover plate over the cables.
   i. Align the sliding gate with the rail.
   j. ➡ To adjust the gate-rail height:

- Rotate the bottom support rods until the sliding gate and rail are aligned.

k. Insert the four retaining pins.
l. Tighten all fasteners.
m. Lower the table.
n. Close the p-door.
o. Close the sliding gate.

Drawing: Installed rail assembly (40 KB)

3. ☐ Install all the VLF Trendsetter outer panels.

Clean up

Clean the VLF Trendsetter AL and its surroundings before leaving the site for the day.

1. ☐ Wipe down all external surfaces of the VLF Trendsetter AL, using a glass cleaner or mild detergent. Take particular care in wiping the table, which needs to be kept very clean.
2. ☐ Vacuum the inside of the VLF Trendsetter.
3. ☐ Vacuum the floor.
4. ☐ Deposit garbage in receptacles.
5. ☐ Pick up all tools and replace them in the toolbox.

Workstation

1. ☐ Assemble the workstation following the manufacturer's instructions.
2. ☐ Check that the customer AC receptacle is wired correctly, and on the same AC panel as the AC receptacle for the VLF Trendsetter.
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.
6. ☐ Log into Windows NT under the Administrator account.
7. ☐ Create a new directory called E:\Service. You will store Notepad text files here to log service calls, firmware upgrades, workstation upgrades and NVS backups.
8. ☐ Set the present time for the local time zone.
9. ☐ Dial the modem number from another phone, or use RAS from a laptop and another line, to check that the phone connection and modem work.
10. ☐ Start the Diagnostic Interface serial communications program (e.g., Terminal).
11. ☐ Run the setup utility to set the correct baud rate, port, etc.
12. ☐ Power down the workstation.
13. ☐ Connect the serial cables from the workstation to the Computer Serial Interface and Diagnostic sports on the VLF Trendsetter.
14. ☐ Connect the differential SCSI cable from the workstation to the VLF Trendsetter.
15. ☐ Make sure all cables are secure at both ends.

Configure the system

1. ☐ Power up the VLF Trendsetter and the Autoloader.
2. ☐ Power up the workstation.
3. ☐ Verify that the network is configured and the connection is working.

   Note: If the network is not responding, contact the applications specialist.
4. ☐ Configure the media following the Setting Up New Thermal Media instructions.
5. ☐ Configure the workstation following the applicable Workstation Software User Guide.
6. ☐ Install the Plate Alignment Labels on the load table. See Plate Alignment Label Placement (32 KB).