Important Safety Precautions

Read the following safety precautions carefully before operating, or maintaining the Dolev 200/400 series Imagesetter.

DANGER !

- Avoid direct exposure to the beam and its reflections!

  Please refer to all Laser of Safety Precaution Labels.

- Do not stare into the laser beam and its reflections ! The laser radiation is hazardous to the eye and skin.

- Even brief exposure of the eyes to the laser beam or its reflections may cause permanent loss or permanent degradation of eyesight.

CAUTION !

- Use of controls and/or adjustments, or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

WARNING !

- You are forbidden, unless otherwise instructed, to defeat any of the interlock switches.
- Power-down the imagesetter before reseating/replacing any electrical board or wiring connection.

Failure Messages

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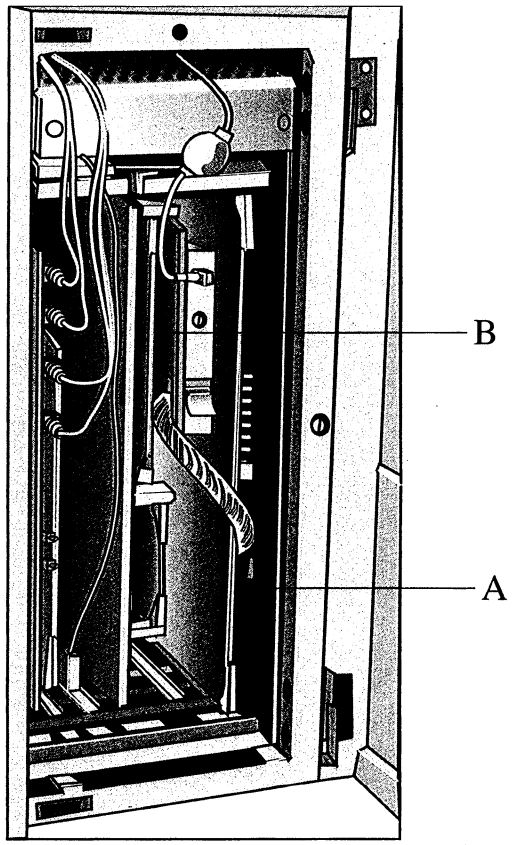
F030: SPNR TOO SLOW



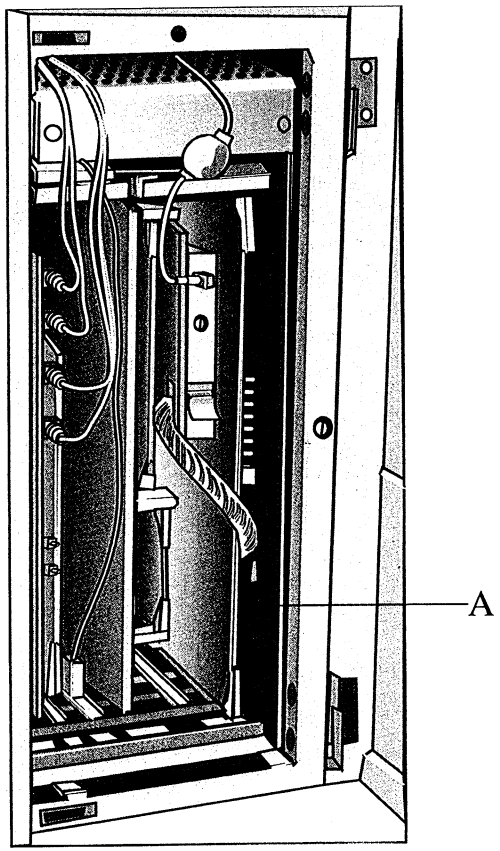
Description

This message indicates that the spinner did not reach the desired speed for the specific resolution. The spinner speed is checked before each plot.

Procedure

1. Reset the imagesetter.
2. Reseat both the CID board (A) and the Motor Driver board (B) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Verify that the selected spinner speed in the format is the default one. (Please refer to the *User Guide*).

F201: NVM TABLE CS



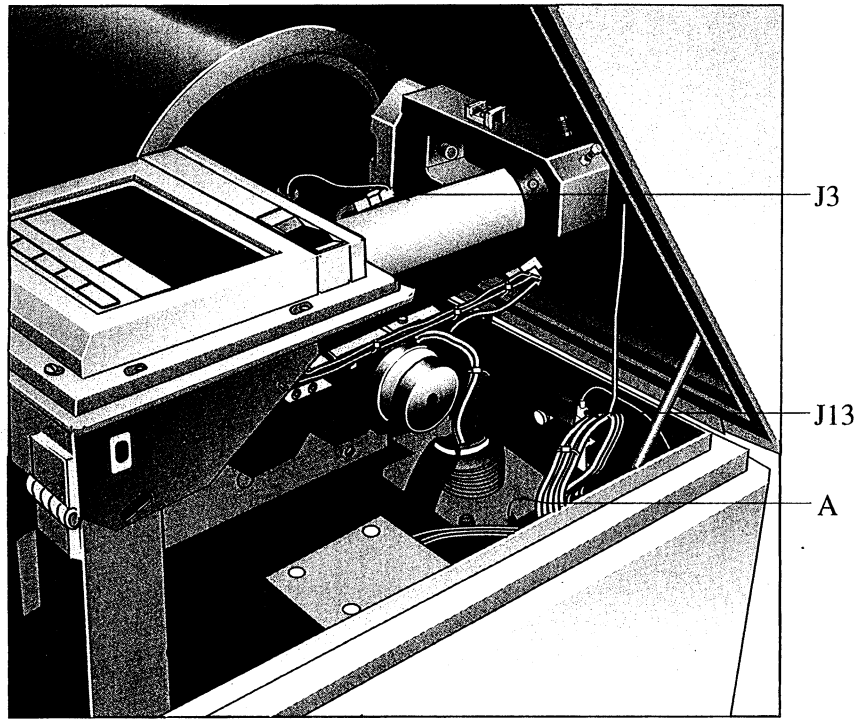
Description

The NVM table in the NVM memory is corrupt and there is a checksum error.

Procedure

1. Reset the imagesetter.
2. From the host computer, init the NVM Parameters: Setup Menu ➔ I/O Devices ➔ Plotter Settings ➔ Machine ➔ NVM ➔ Init.
3. Restore the NVM parameter from your host computer: Setup Menu ➔ I/O Devices ➔ Plotter Settings ➔ Machine ➔ NVM ➔ Restore.
4. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).

F301: DANGER LASER BEAM ON

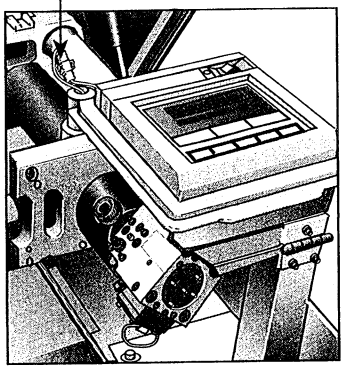


Description

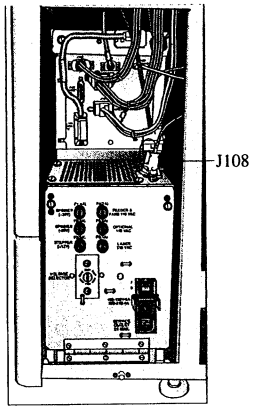
Danger of laser beam exposure in the drum area or possibly some problem in the laser path.

Procedure

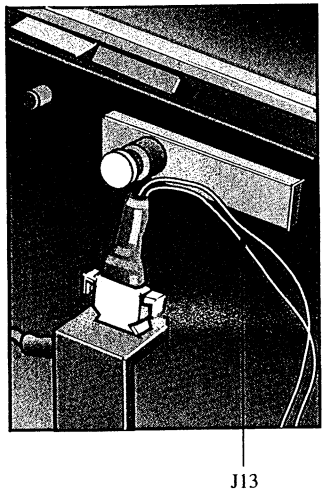
1. If the failure message appears after powering on the imagesetter, then wait two minutes and reset the imagesetter. If the failure message disappears, it is probably caused by a slow startup of the laser (cold laser that does not reach its full power while the self test is running). If the message reappears, continue with the following Procedure.
2. Power off the imagesetter B (*Powering On/Off the Imagesetter*) and access the rear side of the electronics crate B (*Removing the Imagesetter Rear Cover*). Check if the laser 110V 1A fuse is burnt out, if so, replace it B (*Checking/Replacing the Secondary Fuses*).



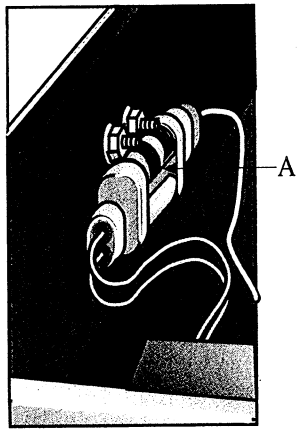
3. Open the imagesetter upper cover B (*Opening and Removing the Upper Cover*) and check that the shutter assembly J3 is properly wired and unimpaired.



5. Verify that the cable connection between the laser power supply and the electronics crate (J108-P108) is properly connected.



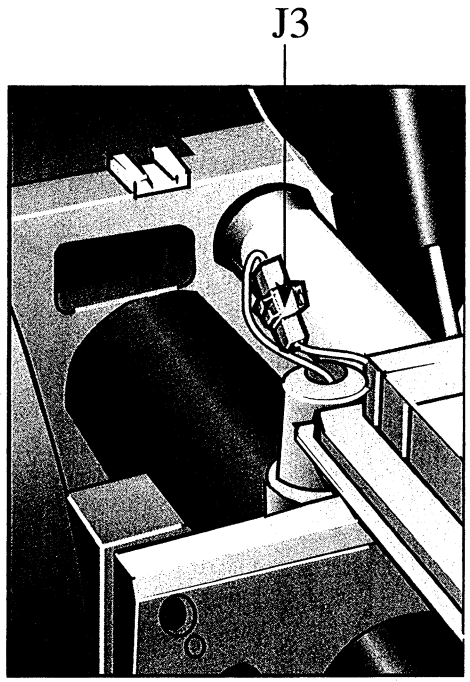
4. Verify that the laser power supply is properly connected J13-P13.



6. **Warning!** Due to very high charged voltage, do not touch the connector at all not even when the power is off.

   Visually check that the laser power supply is properly connected to the laser tube (A).

F302: LASER INTENSITY



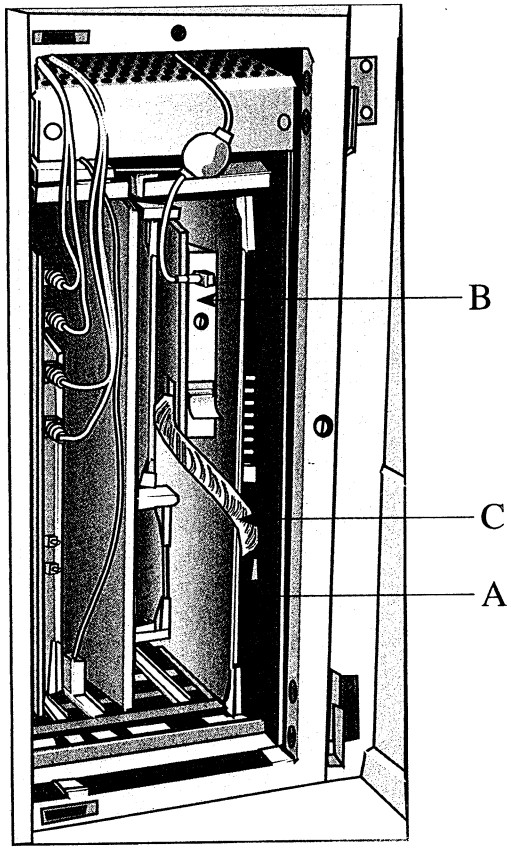
Description

The laser calibration has not reached the required intensity level. During startup or before each plot, a laser calibration is performed to a pre-defined Intensity value.

Procedure

1. Check if the failure message appears only after turning on the plotter. If so, wait a minute or two and then reset the imagesetter. If the failure message disappears then the laser startup was slow and the self test checked the laser before it warmed up.
2. Verify that the RES/INT table has the appropriate values.
3. Verify that the ND filter is clean and properly positioned in its housing B (*Checking/Replacing the ND filter*).
4. Adjust the RF driver to achieve optimal laser intensity B (*Adjusting the RF driver*).
5. Verify that the shutter assembly is properly wired (J3), if advised by a Scitex Engineer replace the shutter assembly B (*Replacing the Shutter Assembly*).

F303: RF MOD. DRIVER



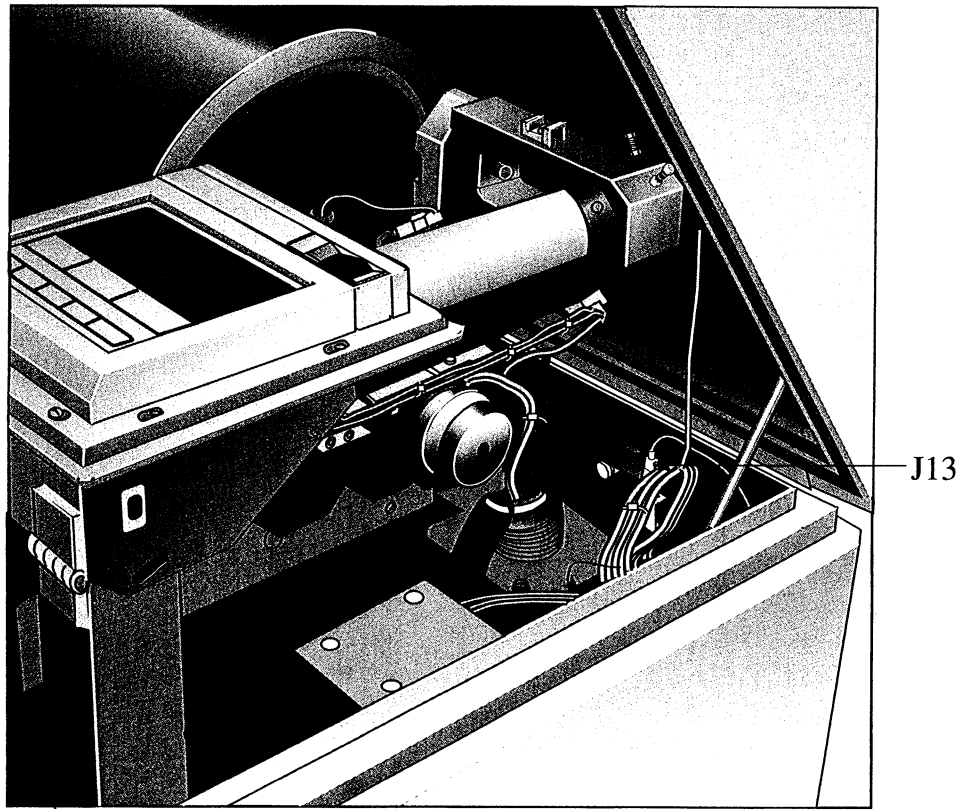
Description

The RF modulator returned an improper signal.

Procedure

1. Check for proper connection of the flat cable (C) between the CID board (A) and the RF Modulator Driver board (B).
2. Power off the imagesetter and replace the RF Modulator Driver board (B), if instructed to do so by a Scitex Engineer B (*Accessing the Electronics Crate and Replacing a Board).*

F304: NO BEAM ON QUAD

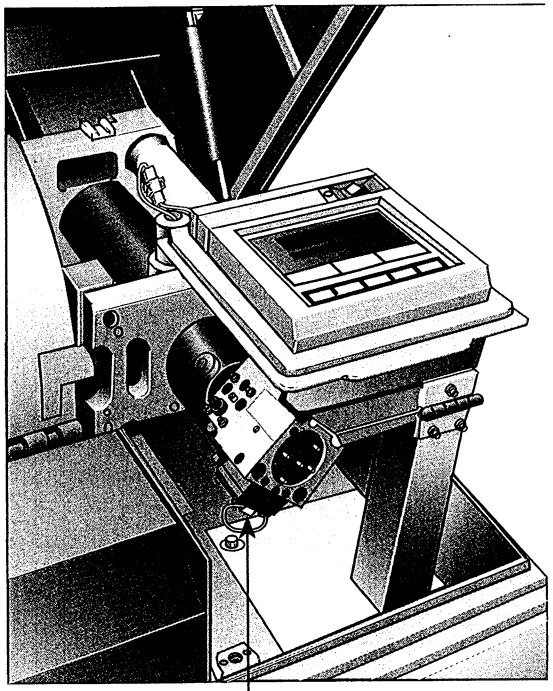


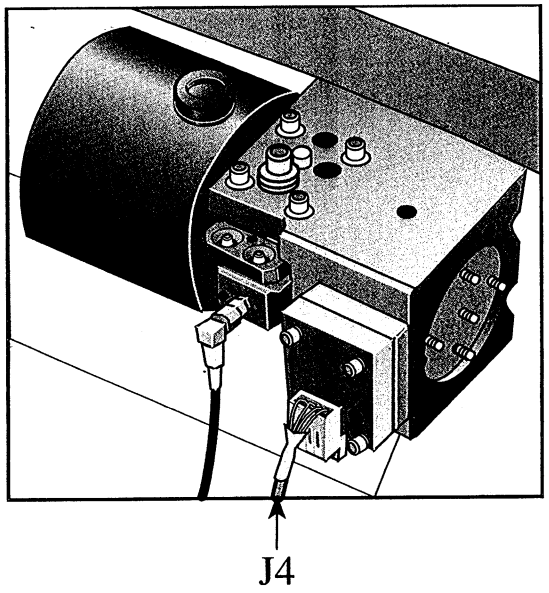
Description

The static quad expects to sense a laser beam while the imagesetter is powered on. It is most likely that the laser tube is not receiving its power from the Exciter.

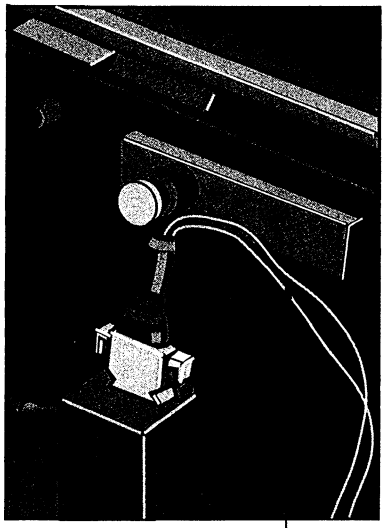
Procedure

1. Check the 1A 110 VAC laser supply fuse B (*Checking/Replacing the Secondary Fuses*).

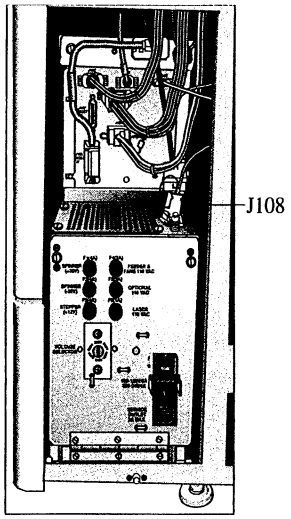




2. Verify that the Quad Detector is properly connected J4.

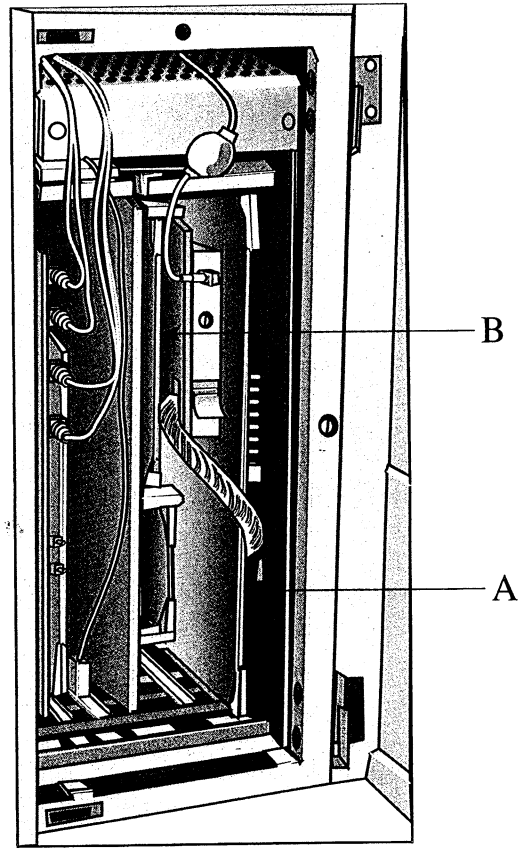


3. Open the imagesetter upper cover **B** and check for proper wiring connection to the laser power supply J13-P13 .



4. Access the rear of the electronics crate **B** (*Removing the Imagesetter Rear Cover*) and verify for proper wiring connection of J108-P108.

F401: +30V PS



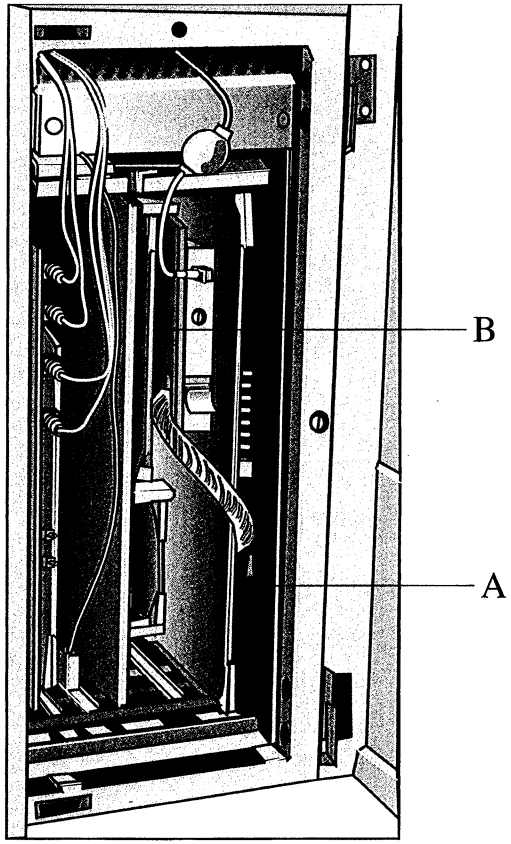
Description

The voltage supply level of the +30V PS is insufficient.

Procedure

1. Reset the imagesetter.
2. Verify that the spinner +30V 4A fuse is not burnt out B (*Checking/Replacing the Secondary Fuses*).
3. Power off the imagesetter B (*Powering On/Off the Imagesetter*).
4. Reseat the CID Board (A) B (*Accessing the Electronics Crate and Replacing a Board*) and the Motor Driver board (B).

F402: -30V PS



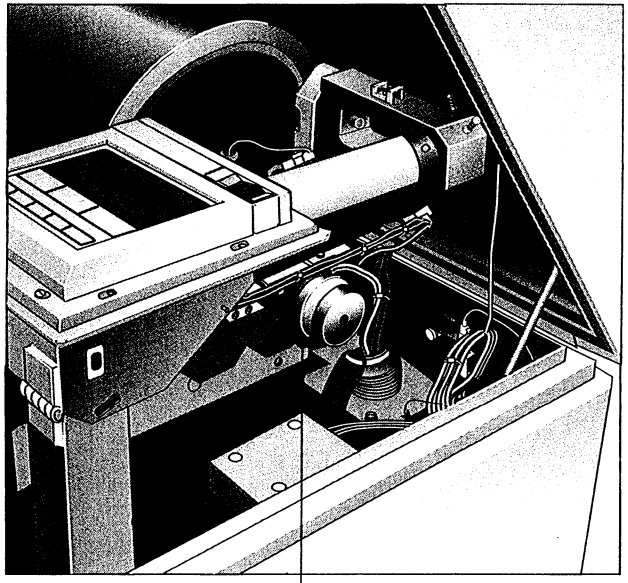
Description

The voltage supply level of the -30V PS is insufficient.

Procedure

1. Reset the imagesetter.
2. Verify that the spinner -30V 4A fuse is not burnt out B (*Checking/Replacing the Secondary Fuses*).
3. Reseat the Motor Driver board (B) and the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).

F403: STPR +12V PS

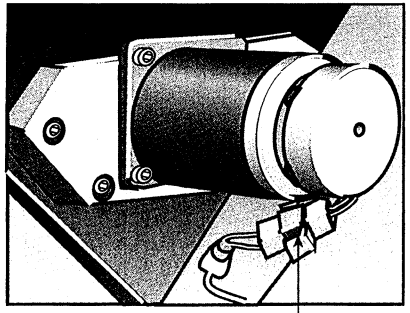


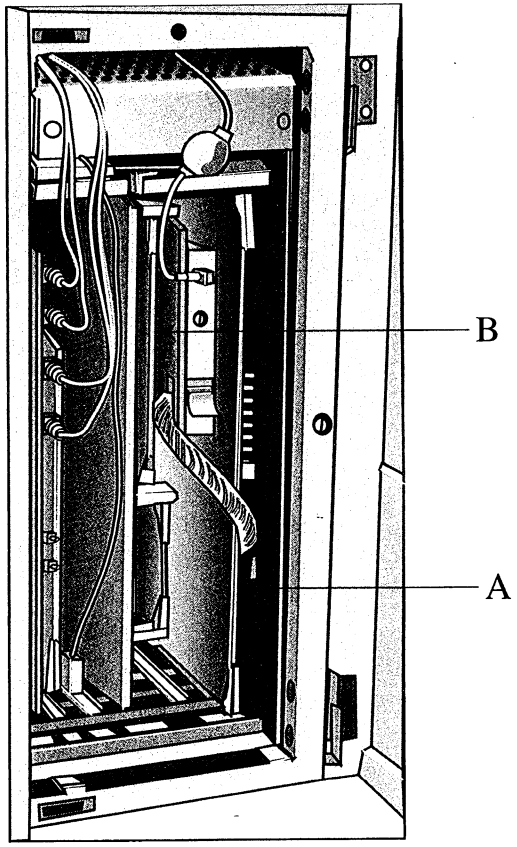
Description

The voltage supply level of the stepper motor +12V PS is insufficient.

Procedure

1. Reset the imagesetter.
2. Verify that the stepper motor +12V 4A fuse is not burnt out B (*Checking/Replacing the Secondary Fuses*).
3. Verify that the stepper motor is properly wired J10-P10.





4. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*) and the Motor Drive board (B).

F404: +15V PS

Description

The voltage supply level of the +15V PS is insufficient.

Procedure

1. Reset the imagesetter.
2. If the message reappears, please call Scitex Service. An adjustment of the ± 15V power supply is required.

F405: -15V PS

Description

The voltage supply level of the -15V PS is insufficient.

Procedure

1. Reset the imagesetter.
2. If the message reappears, please call Scitex Service. An adjustment of the ± 15V power supply is required.

F406: +5V PS

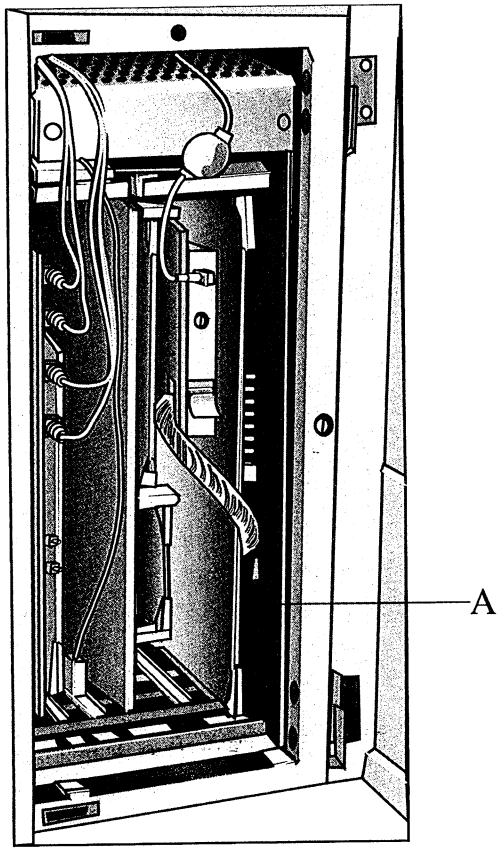
Description

The voltage supply level of the +5V PS is insufficient.

Procedure

1. Reset the imagesetter.
2. If the message reappears, please call Scitex Service. An adjustment of the 5V power supply is required.

F407: -5.2V PS



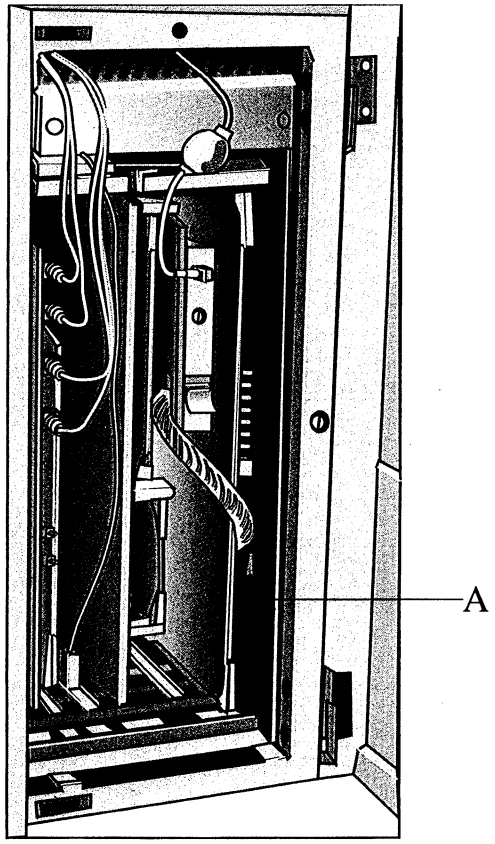
Description

The voltage supply level of the -5.2V on the CID board is insufficient.

Procedure

1. Reset the imagesetter.
2. Replace CID board (A), if instructed to do so by Scitex **B** (*Replacing the CID Board*).

F408: BATTERY PS



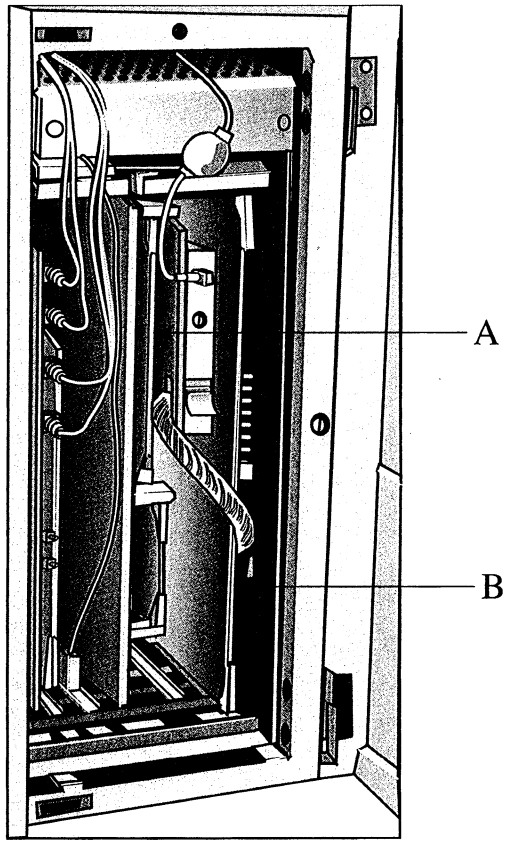
Description

The voltage supply level of the backup battery for the NVM parameters on the CID board is insufficient.

Procedure

1. Reset the imagesetter.
2. Replace the CID board (A), if instructed to do so by Scitex B (*Replacing the CID Board*).

F409: +5V HALL SENSOR



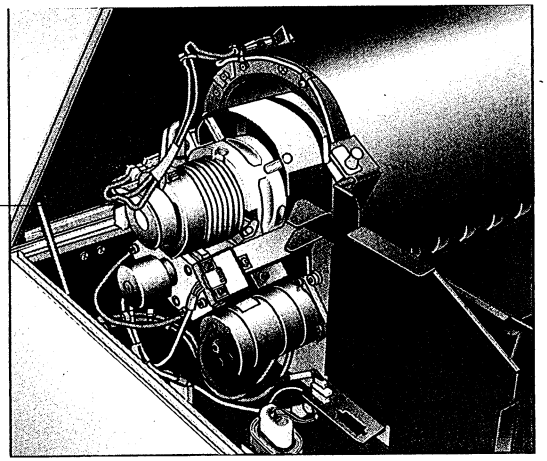
Description

The CID board does not receive 5V from the DC brushless motor driver, which indicates that the driver board is not supplying 5V to the Hall Sensor.

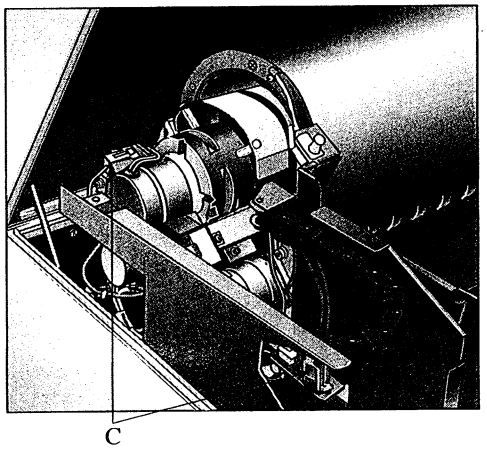
Procedure

1. Reset the imagesetter.
2. Access the electronics crate B *(Accessing the Electronics Crate and Replacing a Board)* and reseat the Motor Driver board (A) and the CID board (B). If instructed by Scitex engineers you may need to replace one of the boards.

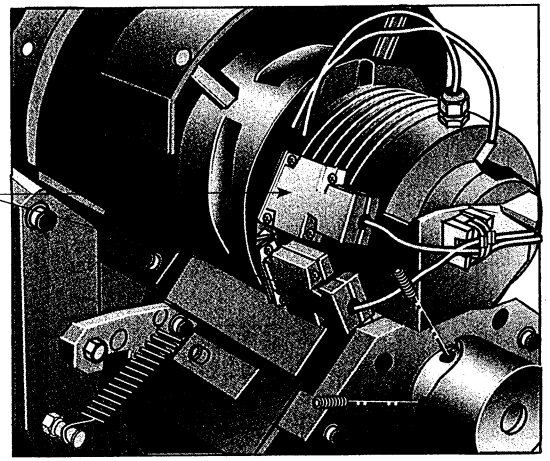
Dolev 200/250

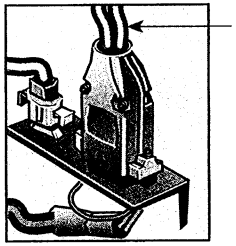


Dolev 400/450

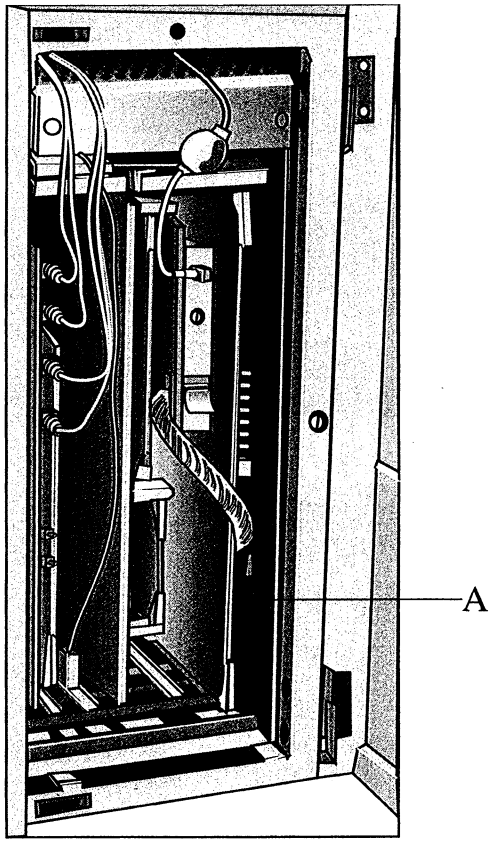


3. Open the imagesetter upper cover **B** (*Opening and Removing the Upper Cover*), power-off the imagesetter **B** (*Powering On/Off the Imagesetter*) and verify that the encoder cable (C) is properly connected between the Dynamic Optic unit and main harness.





F501: ANALOG OFFSET



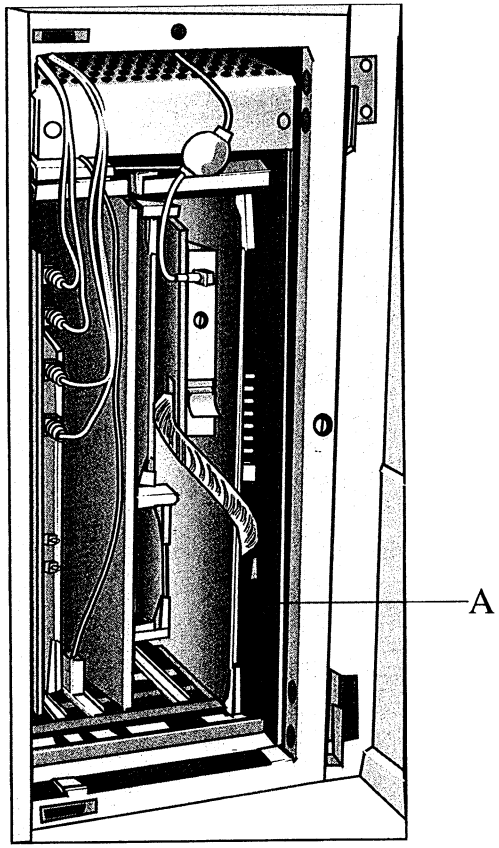
Description

An error has been detected in the offset of analog to digital signals from the conversion system.

Procedure

1. Reset the imagesetter.
2. Replace the CID board (A) , if instructed to do so by Scitex B (*Replacing the CID Board*).

F502: CID BASE CLK



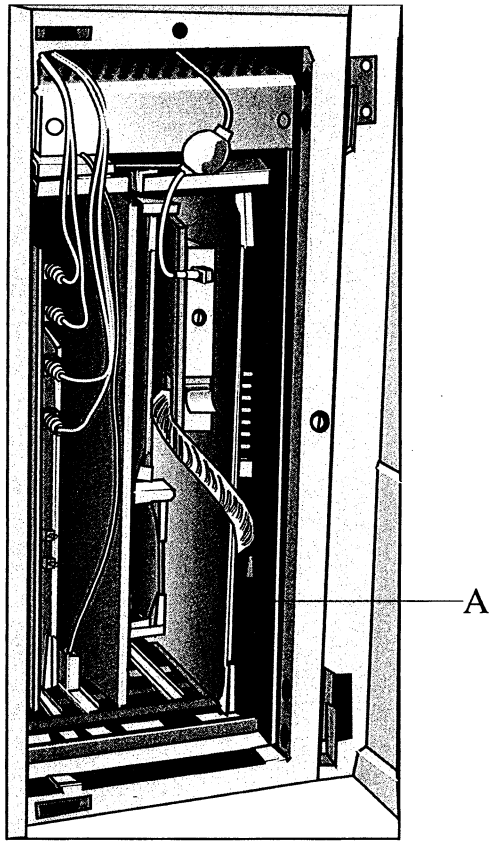
Description

The CID base clock oscillators failed.

Procedure

1. Reset imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F503: CID LOCAL CLKS



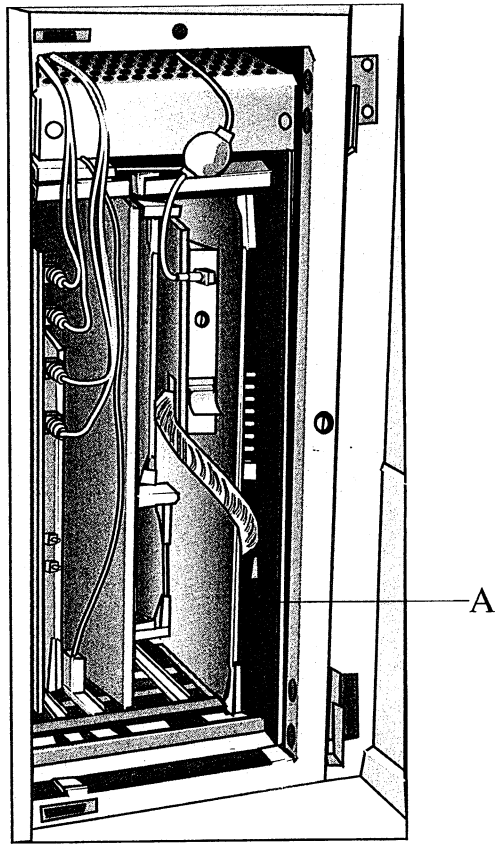
Description

During startup and before plot, improper local clocks were detected in the CID.

Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F504: CID RAM



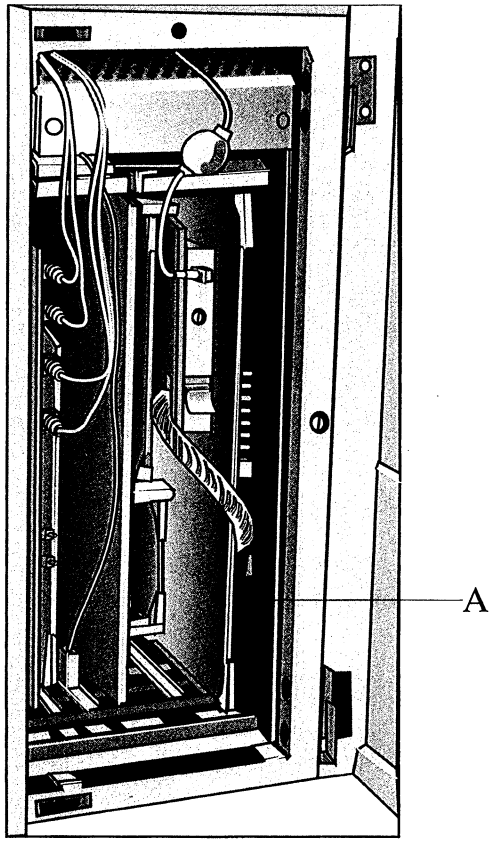
Description

During startup, a defective CID RAM might have been detected.

Procedure

1. Reset the imagesetter.
2. From the host computer, init the NVM and restore the parameters: setup menu select➔I/O Devices➔Plotter Settings➔ Machine➔NVM➔INIT.
3. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
4. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F505: DATA CLOCKS



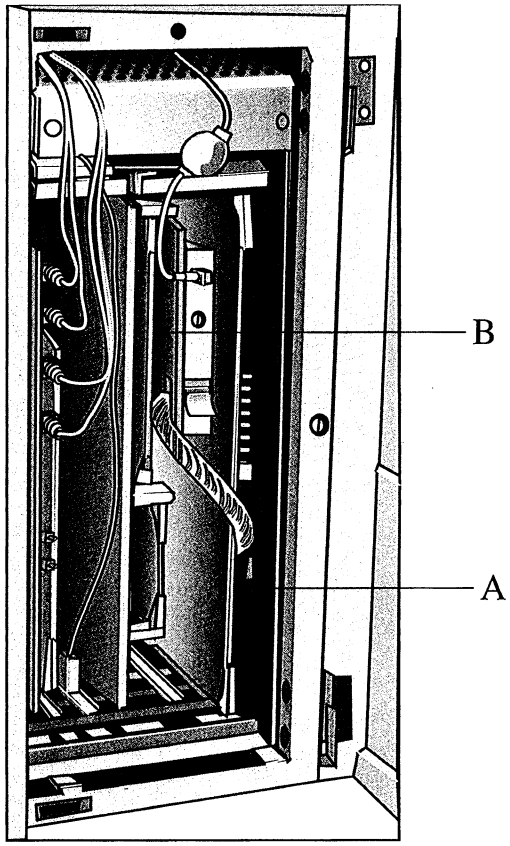
Description

Improper CID data pulses simulate data flow for res 100 via an internal pattern. The test is done during start up and before plotting (checks - 2khz, 400khz, comm. baud rate).

Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F506: ENCODER CLOCKS

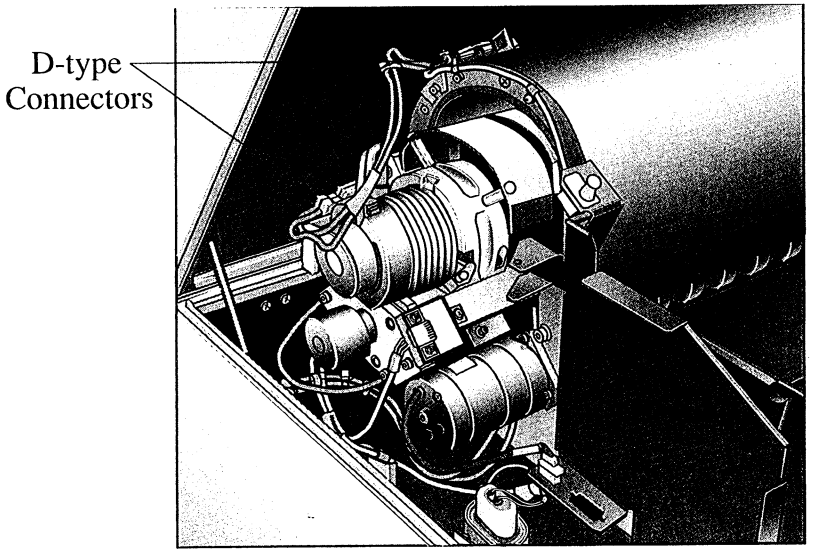


Description

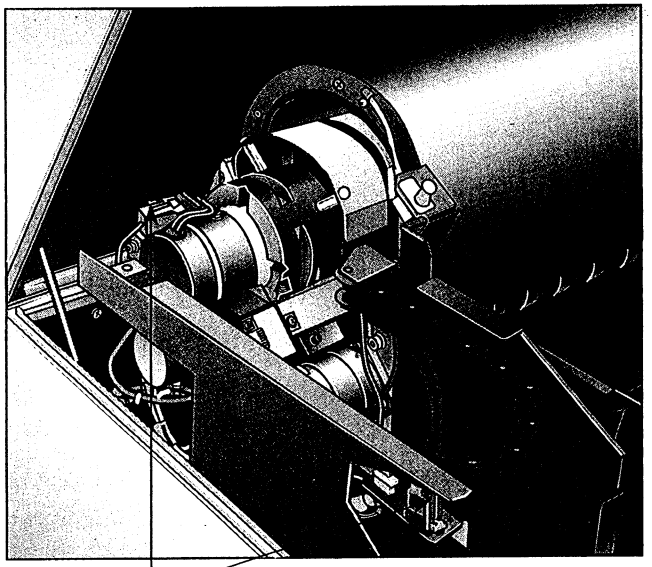
The spinner encoder pulses return an incorrect value. (The encoder indexes are being tested while a 2 MHz synthetic signal is counted between two encoder indexes. This test is performed before plotting, by supplying the spinner first with high power and then with low power.)

Procedure

1. Reset the imagesetter.
2. If the message appears only before plotting, then it may indicate that the CID, spinner motor or encoder (and connections) are not functioning properly.
3. If the error still appears, access the electronics crate **B** and verify that the CID board (A) and Motor Driver board (B) are seated properly (replace if instructed by Scitex Engineer).



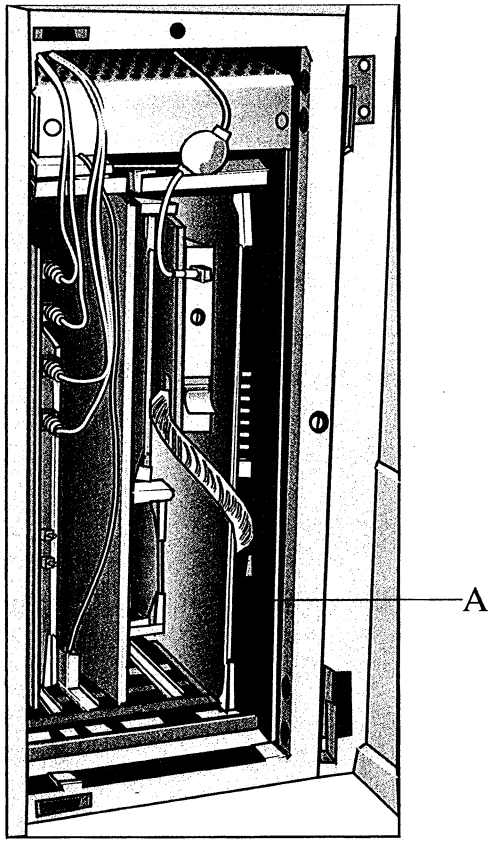
Dolev 200/250



Dolev 400/450

4. Open the imagesetter upper cover **B** *(Opening and Removing the Upper Cover)*. On the carriage assembly you will find two D-type connectors which connect the spinner motor and encoder to the main imagesetter harness. Verify that these connectors are properly connected to the carriage assembly. Verify that the other end of the cable is properly connected to the main wiring harness.

F507: EPROM CHECKSUM



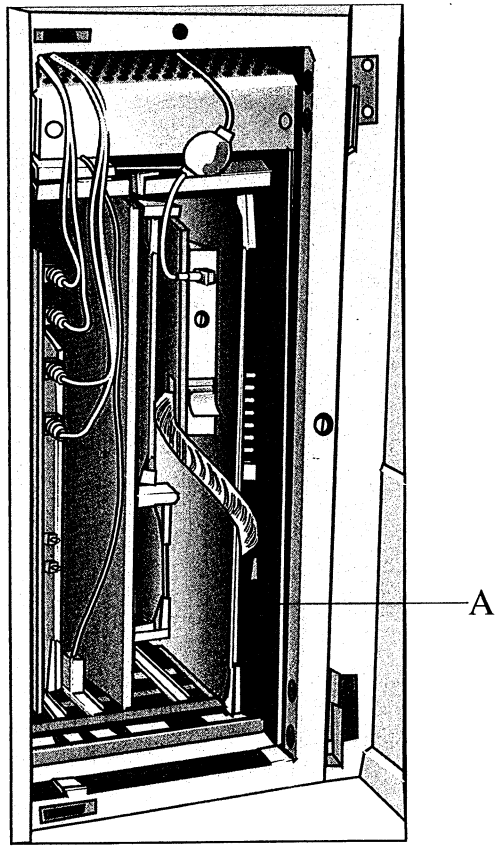
Description

EPROM checksum test has failed. This error might appear only when EPROM is used for the WCS instead of RAM.

Procedure

1. Check your WCS Micro Version B (*Checking Micro Version*).
2. Access the electronics crate B , power off the imagesetter and remove the CID board (A).
3. Consult with Scitex and verify the CID Dip-Switch for the appropriate setting to RAM/ROM position.
4. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F508: EXPOSE CLOCKS



Description

Incorrect exposure pulses are generated on the CID board. Exposure pulses are checked for all resolutions.

Procedure

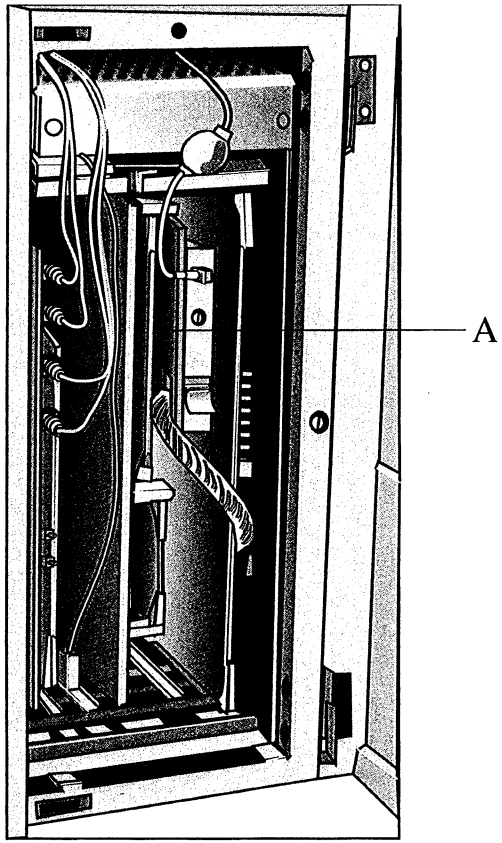
1. Reset the imagesetter.

   If the error still appears, the CID board is probably faulty.

2. Replace the CID board (A), if instructed to do so by Scitex B (*Replacing the CID Board*).

3. If the problem appears only when preparing a plot (exposure), see error F506 - Encoder Clocks.

F509: FEEDER RDBACK

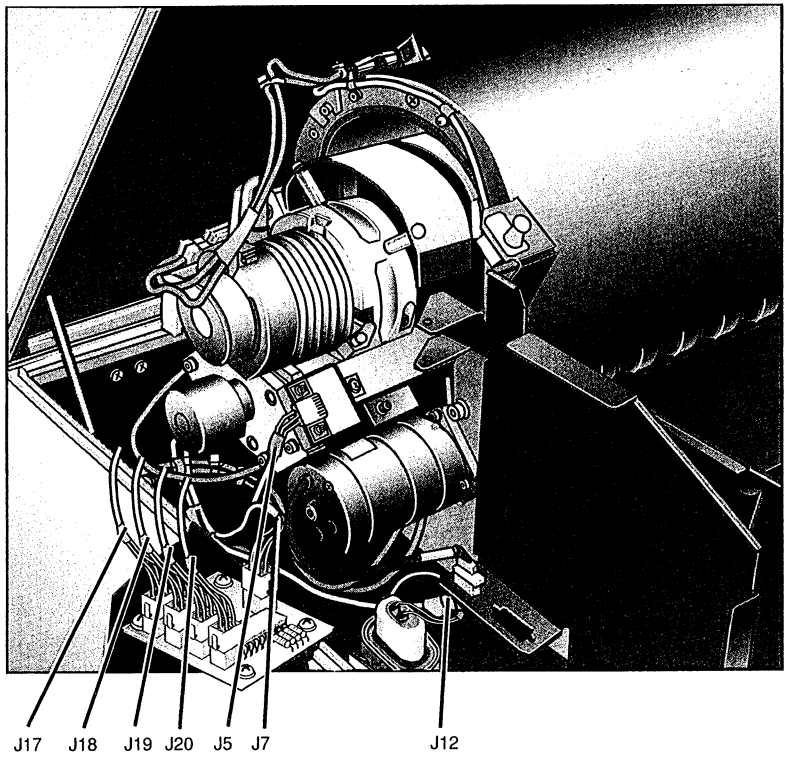


Description

The feeder motor signal returned from the motor board is incorrect.

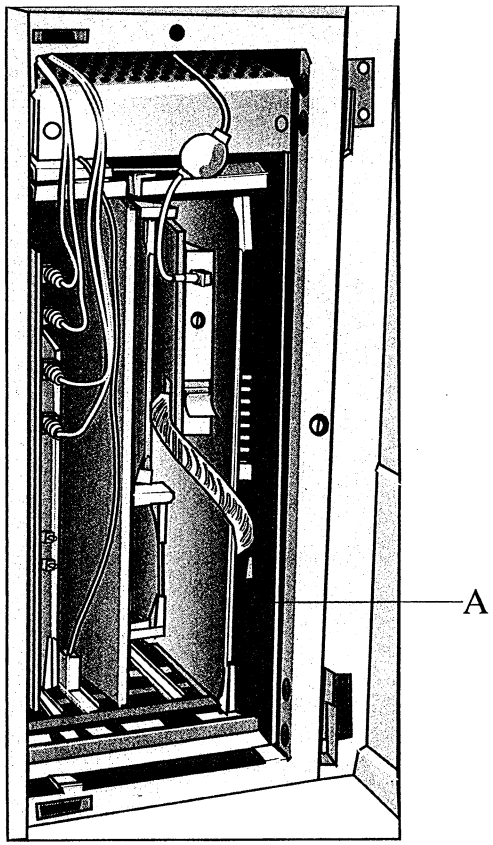
Procedure

1. Reset the imagesetter.
2. Check the 2A feeder motor fuse B (*Checking/Replacing the Secondary Fuses*).
3. Power off the imagesetter, access the electronics crate B and remove the Motor Driver board (A).
4. Verify that the pins which connect the board to the motherboard are not shorting or banded.
5. Reseat the board B (*Accessing the Electronics Crate and Replacing a Board*).



6. Open the imagesetter upper cover **B** and verify that the feeder motor wiring J12 is properly connected.
7. Reseat the CID board **B** (*Accessing the Electronics Crate and Replacing a Board*).

F510: INTERNAL CPU



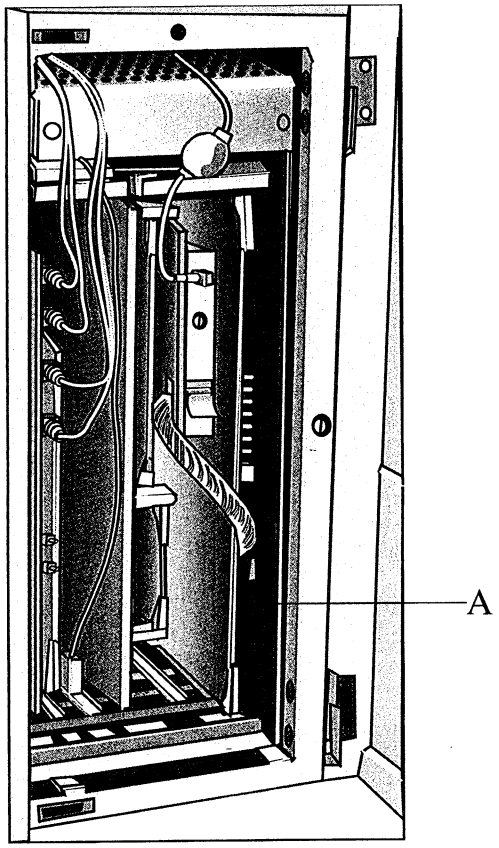
Description

The microcontroller on the CID board is not functioning properly.

Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F511: INTERRUPT CNTRL



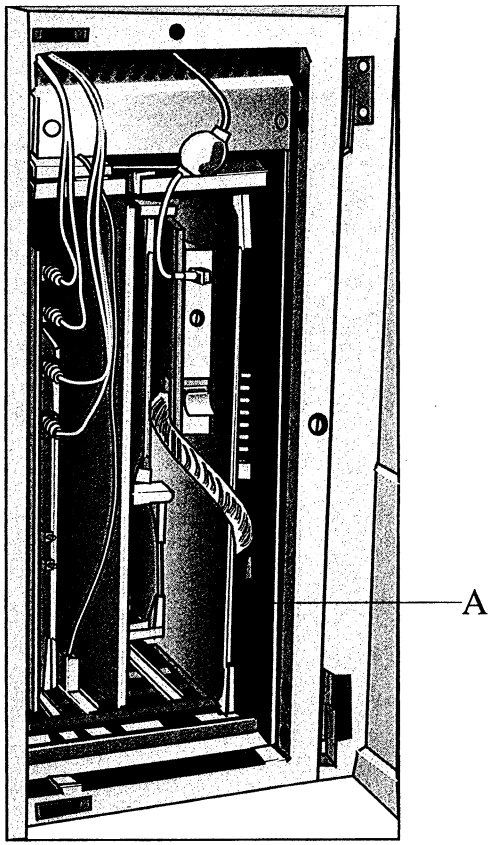
Description

The interrupt controller on the CID board does not operate properly.

Procedure

1. Reset on the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F512: LINE CLK CNTRL



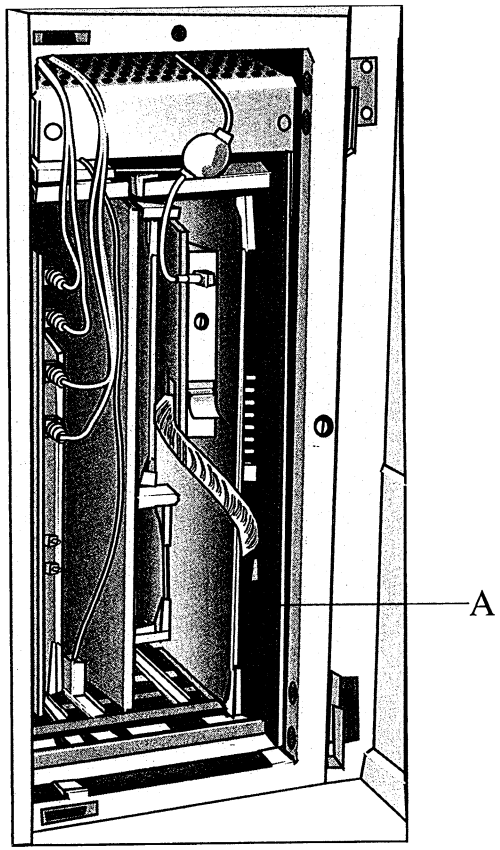
Description

The line shift mechanism which controls the offset (width) does not function properly.

Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F514: PLL CLOCKS



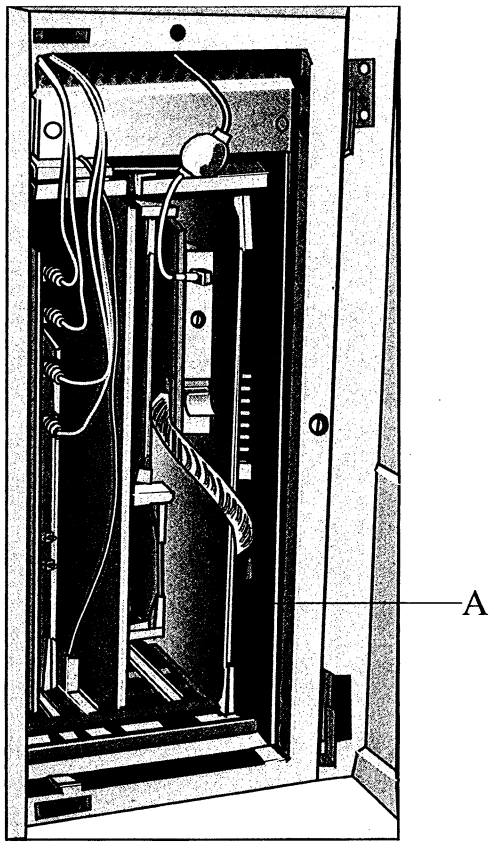
Description

The PLL CLK on the CID board does not operate properly. The PLL output on the CID board is tested for all resolutions. It is likely that one or more of the tested frequencies is incorrect.

Procedure

1. Reset the imagesetter. If the failure still appears, this means that one or more of the PLL clocks generated on the CID from the fixed (synthetic) encoder clock is incorrect.
2. It may be necessary to adjust the PLL (Scitex Engineer) or replace the CID board (A), if instructed to do so by Scitex B (*Replacing the CID Board*).

F515: PROG COUNTERS



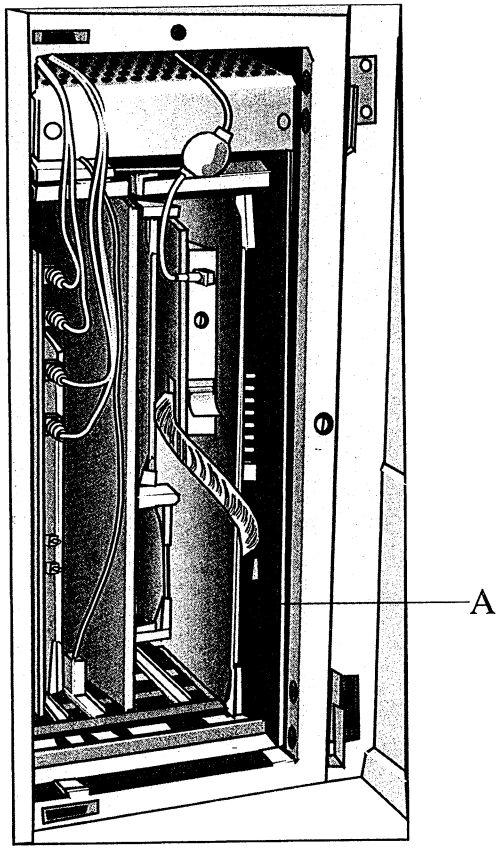
Description

The programmable counter on the CID board is not functioning properly.

Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F516: SMART WATCH



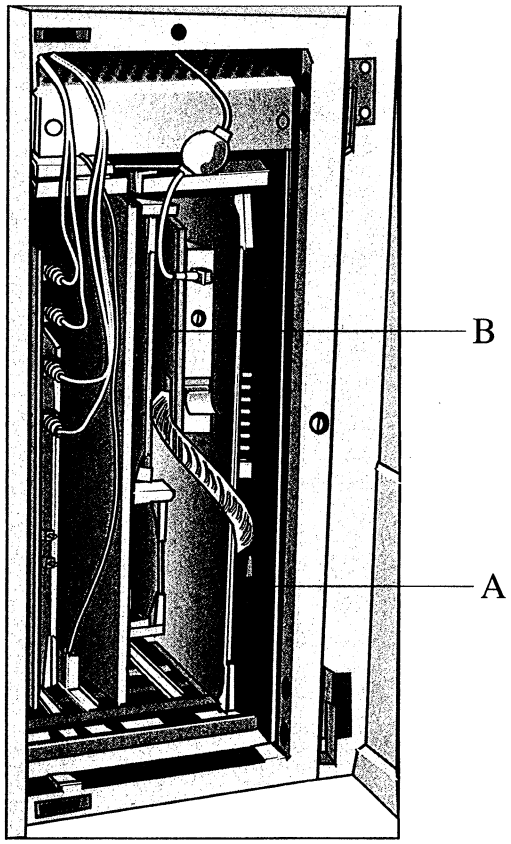
Description

The internal Real Time Clock on the CID board is not functioning properly.

Procedure

1. Consult with a Scitex engineer. You will need to enter the imagesetter diagnostics in order to update the Smart Watch: - Diag ➔ Utilities ➔CID Utilities ➔ Smart Watch. If the Smart Watch is 0 it must be updated.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F517: SPINNER RDBACK

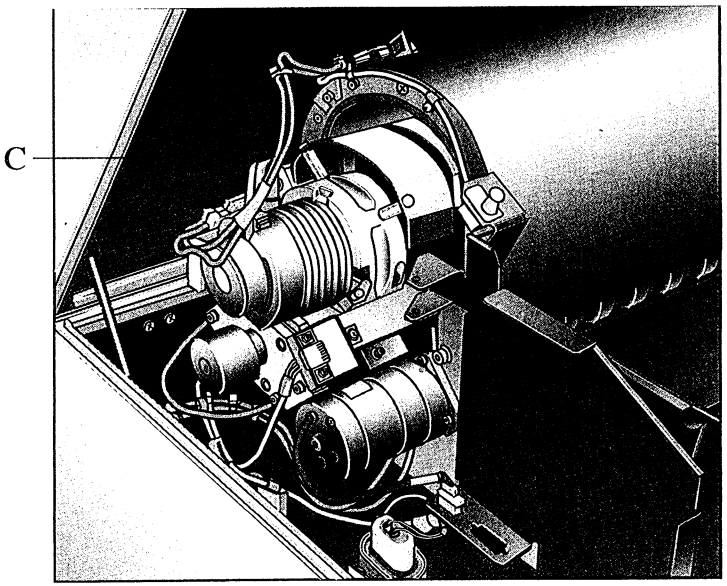


Description

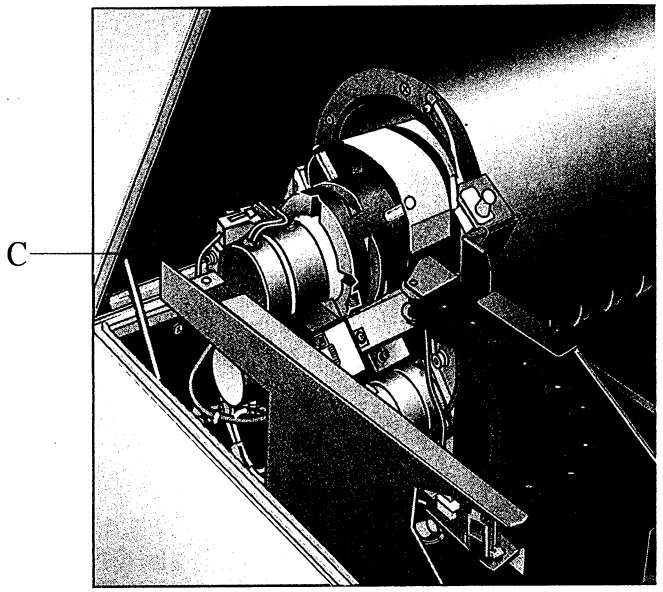
Incorrect spinner signal returned from motor board.

Procedure

1. Reset the imagesetter.
2. Check the spinner 4A Fuse(+30v) and spinner 4A Fuse(-30v) B (*Checking/Replacing the Secondary Fuses*).
3. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).



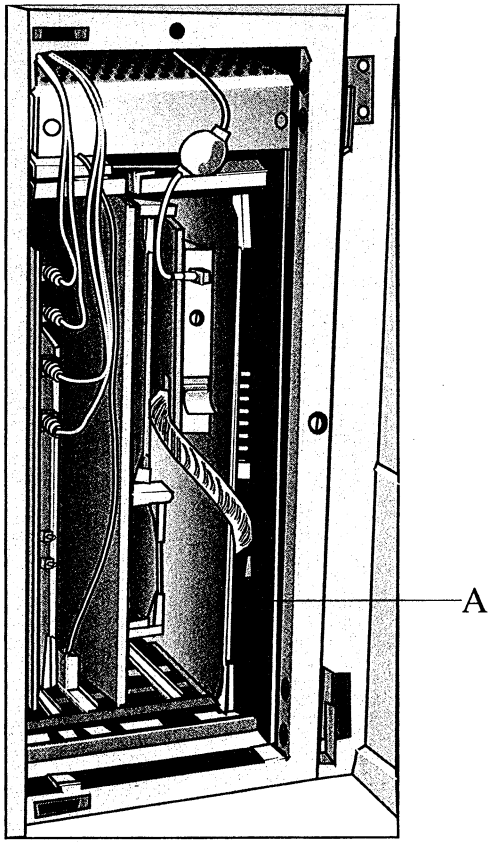
Dolev 200/250



Dolev 400/450

4. Open the imagesetter upper cover [B] and verify that the Spinner Encoder Cable (C) is properly connected to the Dynamic Optic unit (on the carriage).
5. Access the electronics crate [B], remove the Motor Driver board (B) and verify that all the connecting pins are not bent or shorted with other pins. Replace the board.
6. Replace the CID board (A) and or the Motor Driver board (B), if instructed to do so by Scitex [B] *(Replacing the CID Board).*

F518: STEPPER CLOCKS



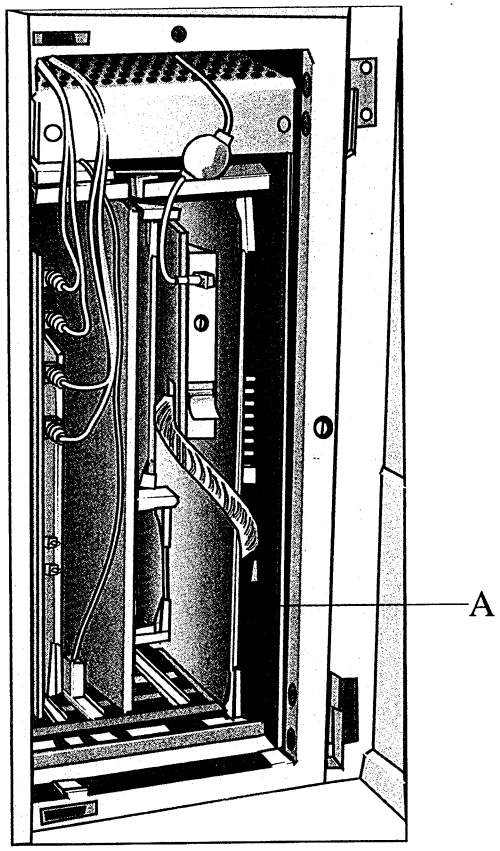
Description

The stepper motor frequency signals are incorrect (10 KHz, 12.5 KHz).

Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F520: WATCHDOG



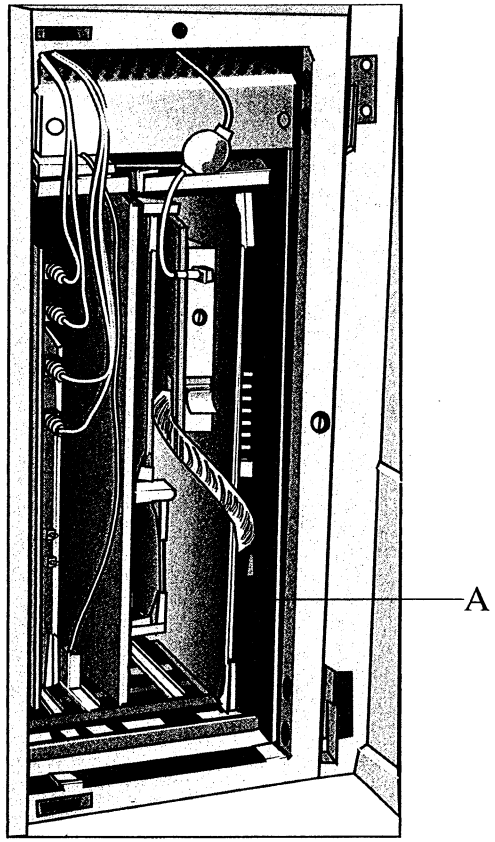
Description

Imagesetter software problem. The Watchdog mechanism had detected a problem.

Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F521: D/A PROBLEM



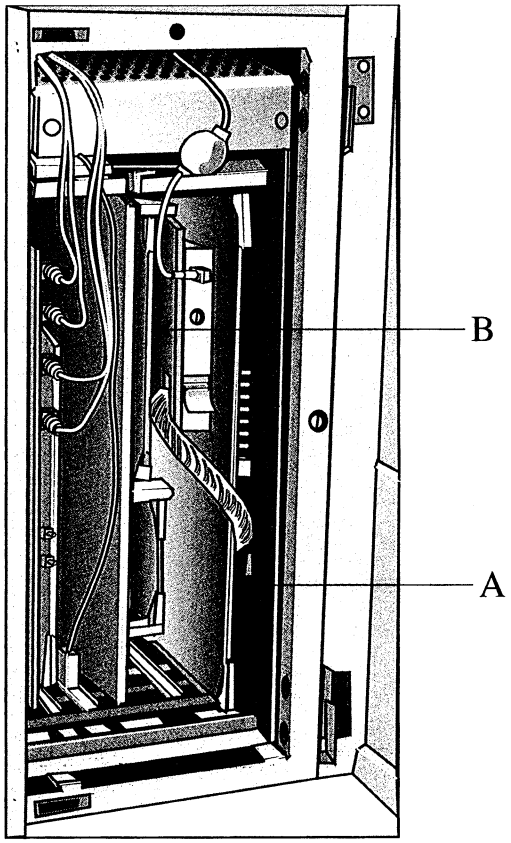
Description

The digital-to-analog circuit on the CID is not functioning properly.

Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F522: NO INDEX PULSES



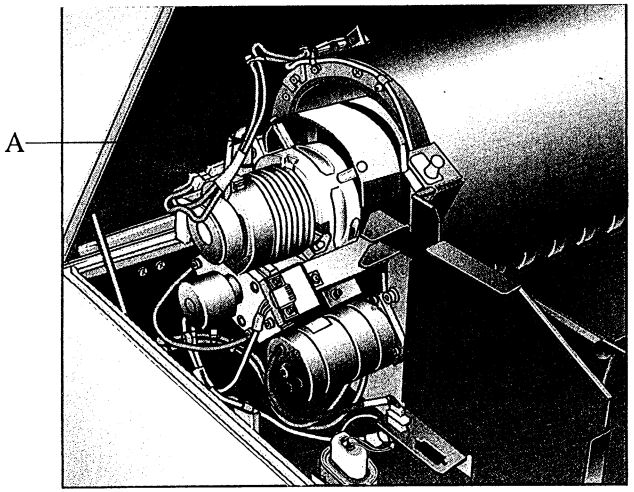
Description

During start of a plot, the spinner motor is powered on and the index pulses are checked. If index pulses are not detected after 4 sec, the message appears.

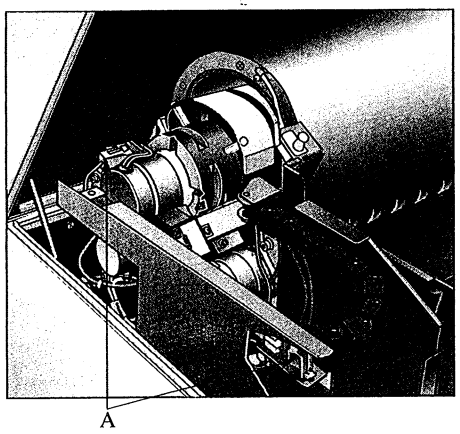
Procedure

1. Check spinner 4A Fuse(+30v) and spinner 4A Fuse (-30v) B (*Checking/Replacing the Secondary Fuses*).
2. Reseat the CID board (A) and the Motor Driver board (B) B (*Accessing the Electronics Crate and Replacing a board*).

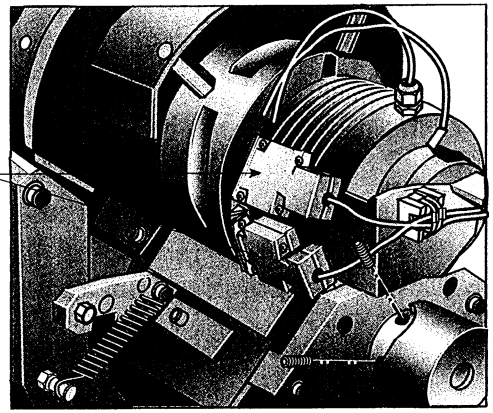
Dolev 200/250

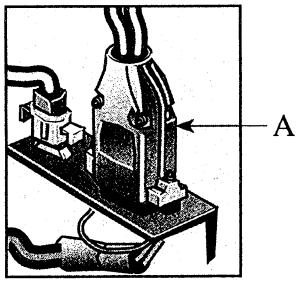


Dolev 400/450

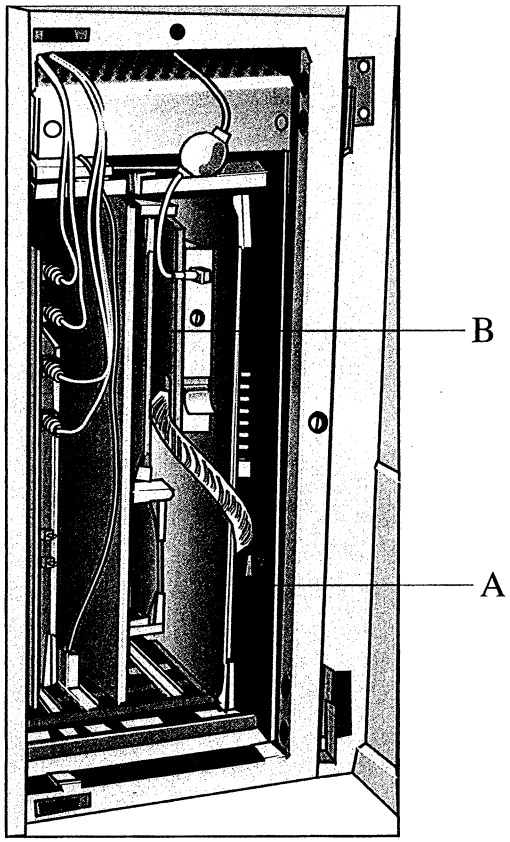


3. Open the imagesetter upper cover **B** (*Opening and Removing the Upper Cover*), power off the imagesetter **B** (*Powering On/Off the Imagesetter*) and verify that the Encoder Cable (A) is properly connected between the Dynamic Optic unit and main harness.





F523: SPINNER UNSTABLE



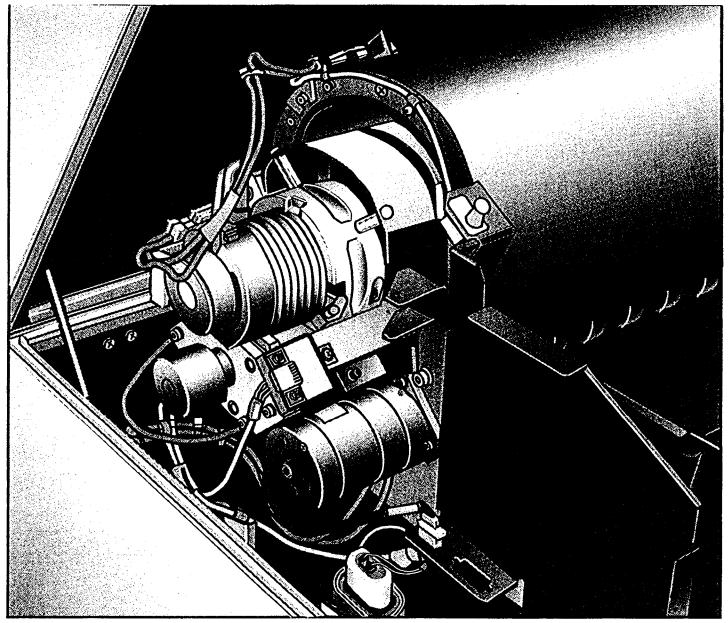
Description

The spinner speed stability is tested before each plot. The speed is checked in intervals of 0.25 sec. If three successive samples are within tolerance, the exposure begins. If not, the error message appears.

Procedure

1. Reset the imagesetter.
2. Check the imagesetter micro version B (*Checking Micro Version*). It may be that your imagesetter requires a higher Micro Version release.
3. Replace the CID board (A) or the Motor Driver board (B), if instructed to do so by Scitex B (*Replacing the CID Board*).

F601: CARRI. HOME POS

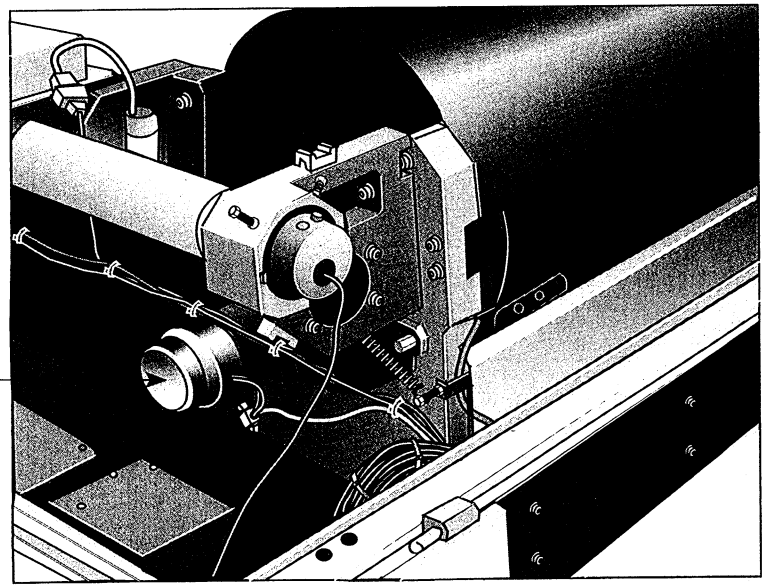


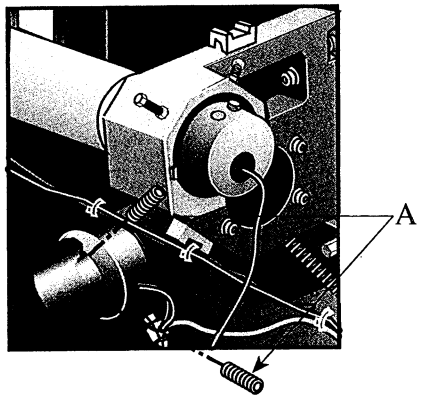
Description

The optical detector position requires adjustment. The carriage home position calibration has failed.

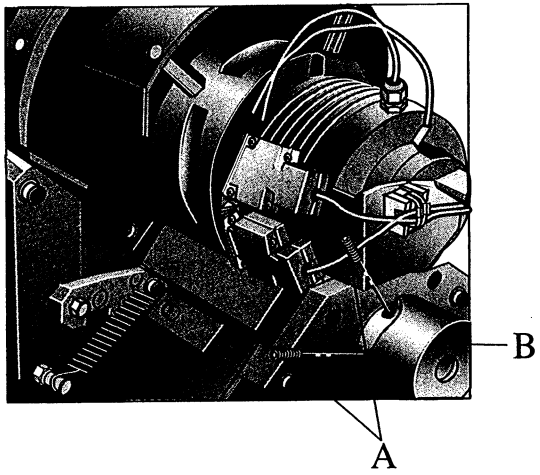
Procedure

1. Open the imagesetter upper cover B (*Opening and Removing the Upper Cover*).





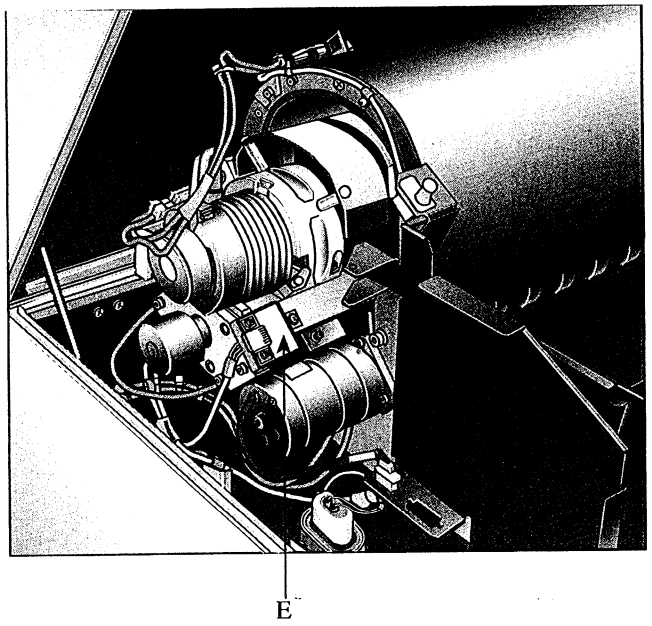
2. Verify that both Stepper Motor and Lead Screw Dampers (B) are properly attached, and retighten if necessary using the set screws (A).

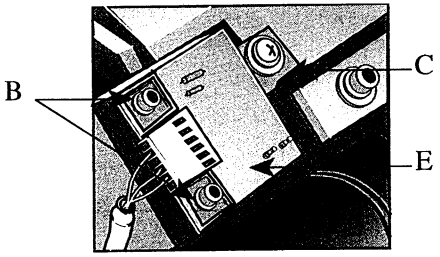


3. Power on the imagesetter B (*Powering On/Off the Imagesetter*).
4. From the imagesetter operations panel, enter the Diag mode by pressing **Diag**.
5. Press the **NEXT** button until the > is positioned next to **Carriage <<<< & calib** and press **select** button.
6. The imagesetter will perform a home position calibration, and a numerical result appears on the display.

   A result of between 0 and 250 can be expected, with an optimum of 125.
7. Re-position the Home Position Detector Board (E) by loosening the hex screws (B) with an allen wrench and adjusting the Home Position Detector Board to the left or right, and re-tighten the screws.

   Look under the Home Position Detector Board (E). Make sure that the blade (C) which moves under the Home Position Detector Board is centered within the detector. (The detector is located under the Home Position Detector Board and is shaped like a "U").





Warning: If the blade (C) is not aligned properly, the detector will be damaged by the blade during carriage movement.

Repeat the procedure from section 5. If the calibration result is 125 ± 10, the home position adjustment has been successfully completed. Reset the imagesetter and the display panel will enter standby position.

F602: CARRI. DETECTORS

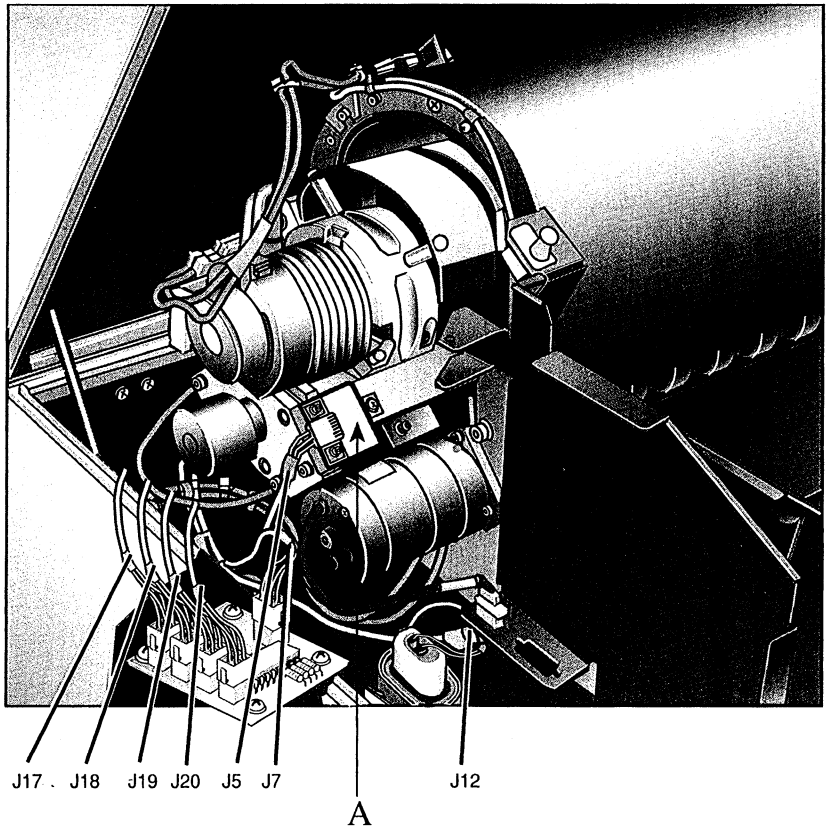
Description

The two detectors, feed position and home position, detect the carriage at the same time.

Procedure

1. Refer to F603 CARRI. TIMEOUT.

F603: CARRI. TIMEOUT

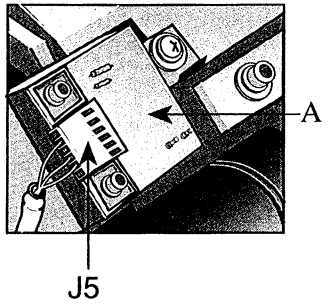


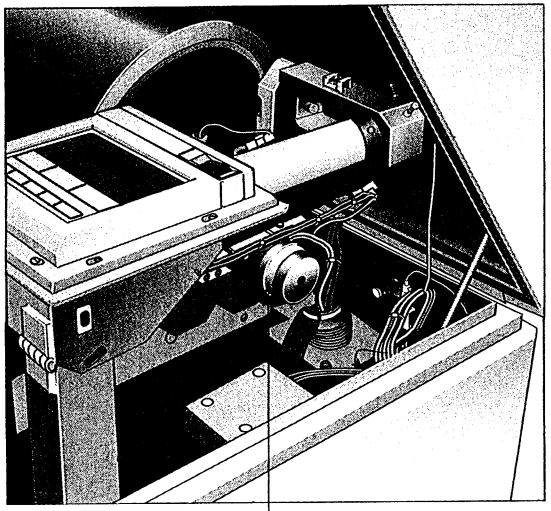
Description

The carriage did not reach position in time.

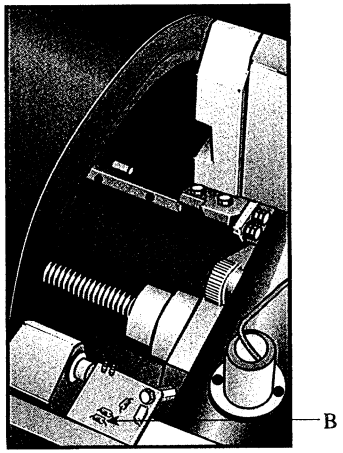
Procedure

1. Open the imagesetter upper cover B and verify that the wiring connector J5 on the home position detector board (A) is properly connected and the detector board is unimpaired and not damaged.

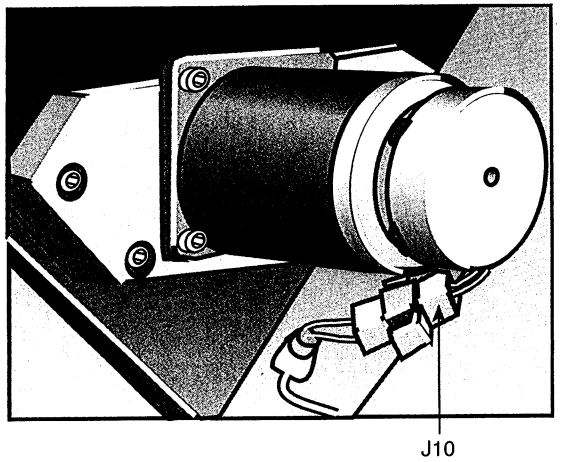


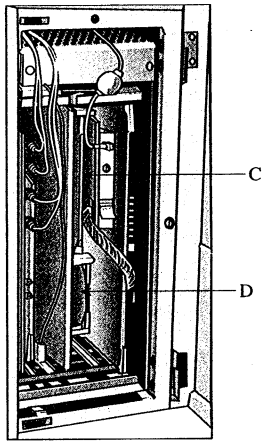


2. Verify that the stepper motor connector J10 is properly wired and unimpaired.



3. Verify that the wiring connector J6 on the feed position detector board (B) is properly connected and the board is not damaged or impaired.





4. Access the electronics crate B and reseat both Motor Driver (C) and Stepper Driver (D) boards.

F604: FEED POSITION

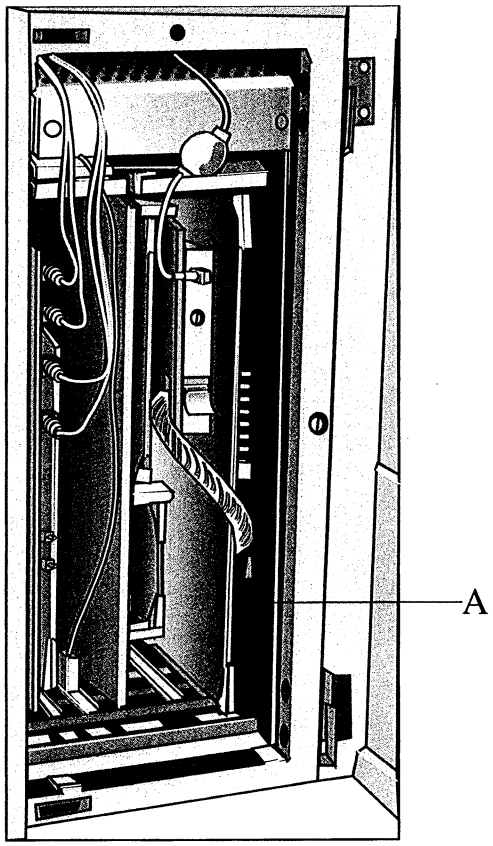
Description

The feed position detector did not detect the carriage in time. This error is hidden by F603: Time Out Carriage.

Procedure

1. Refer to F603 CARRI. TIMEOUT.

F901: COMM WITH PANEL

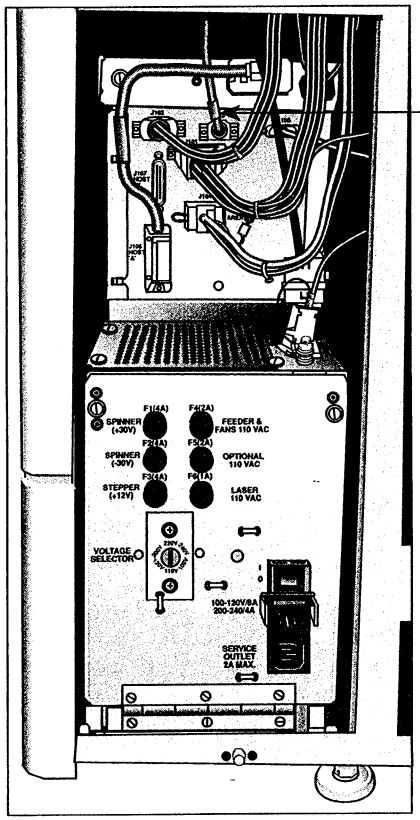


Description

Faulty communication with panel.

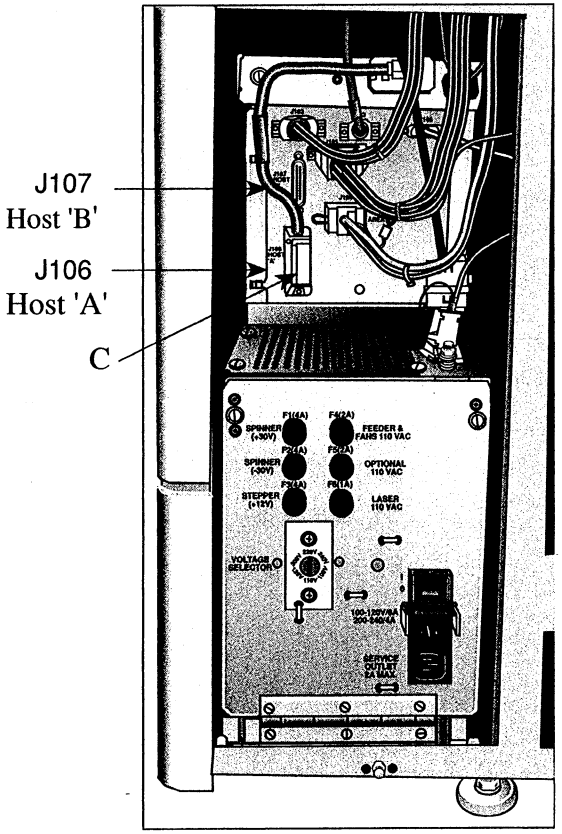
Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).



3. Remove the rear cover **B** (*Removing the Imagesetter Rear Cover*) and verify that the panel wiring J103 is connected properly and unimpaired.

F902: HOST CHANNEL A



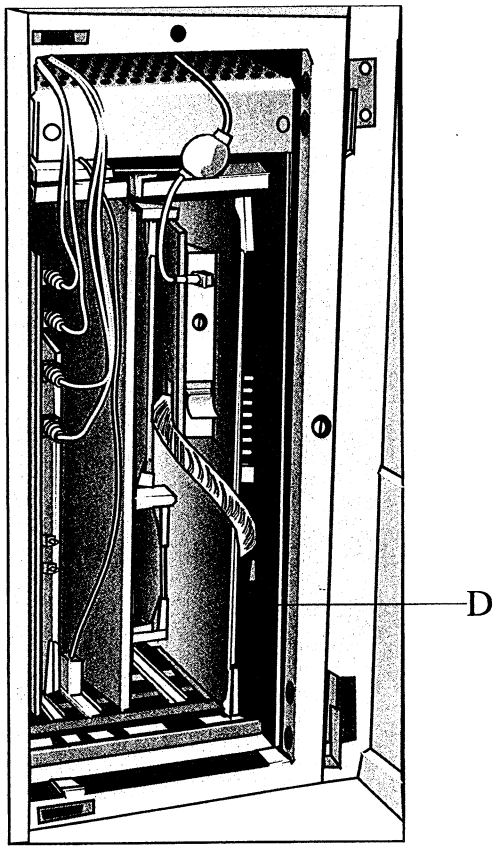
Description

Faulty communication with host computer on port (A). The probable cause is that the "host A" channel logic on the CID is not functioning.

Procedure

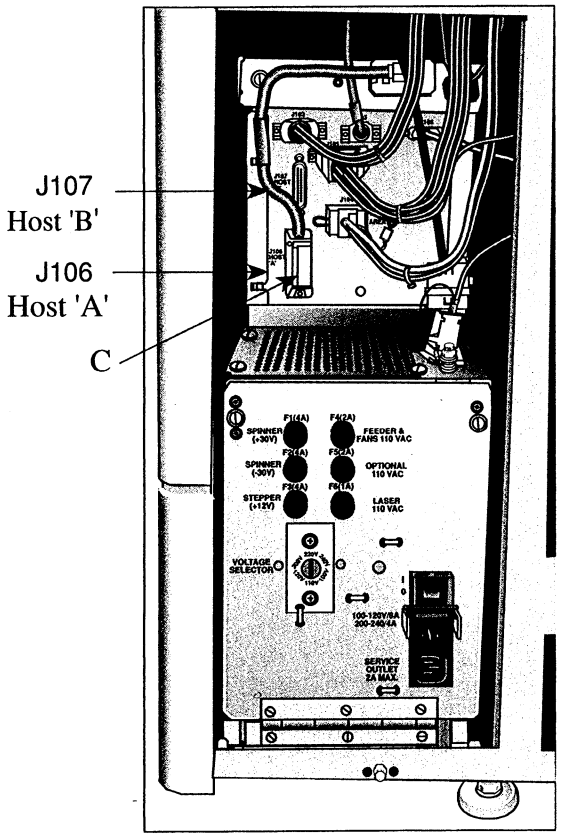
1. Reset the imagesetter and try to expose your file again, if the message reappears continue with step 2.
2. To temporarily overcome the problem, connect the host via channel B:

   Power off the imagesetter B (*Powering On/Off the Imagesetter*). Disconnect the Short data cable (C) connector using a Philips screwdriver. Remove the plug from the "host A" connector and connect it to "host B" and re-tighten the screws.



3. Reseat the CID board (D) B (*Accessing the Electronics Crate and Replacing a Board*).
4. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F903: HOST CHANNEL B



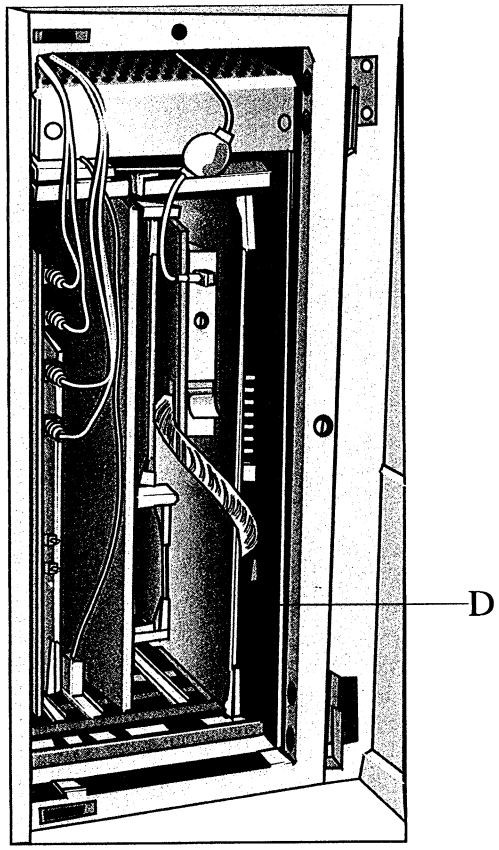
Description

Faulty communication with host computer on port (B). Probable cause is that the "host B" channel logic on the CID is not functioning.

Procedure

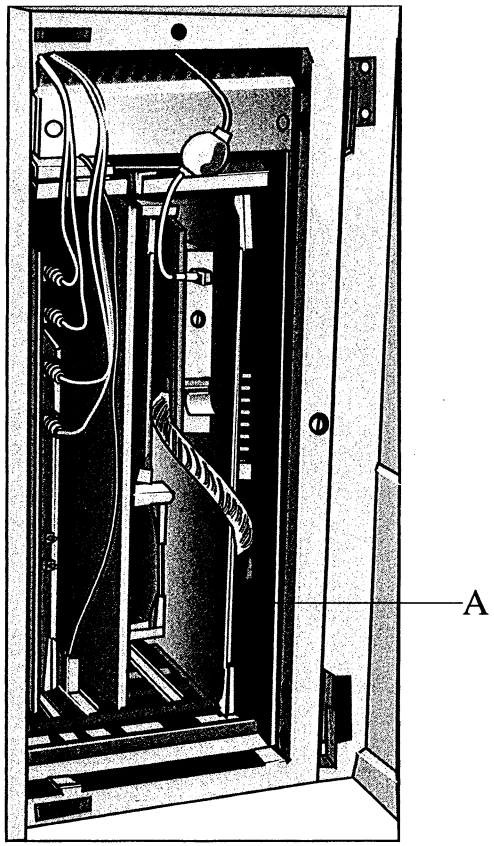
1. Reset the imagesetter and try to expose your file again, if the message reappears continue with step 2.
2. To temporarily overcome the problem, connect the host via channel A:

   Power off the imagesetter B (*Powering On/Off the Imagesetter*). Disconnect the Short data cable (C) connector using a Philips screwdriver. Remove the plug from the "host B" connector and connect it to "host A" and re-tighten the screws.



3. Reseat the CID board (D) B (*Accessing the Electronics Crate and Replacing a Board*).
4. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F904: HOST CANT GET CONTROL OVER PLOTTER



Description

The host is unable to gain control of plotter. Probable cause is that the host control logic on the CID is not functioning.

Procedure

1. Reset the imagesetter.
2. Reseat the CID board (A) B (*Accessing the Electronics Crate and Replacing a Board*).
3. Replace the CID board, if instructed to do so by Scitex B (*Replacing the CID Board*).

F905: ILLEGAL STOP SPIRAL OUTBREAK DURING PLOT

Description

Illegal stop spiral occurred in the CALPLOT during plot.

Procedure

1. Reset the imagesetter.
2. Attempt to expose the file again. If the message reappears, refer to E101.

F906: WCS LOADING FAILED

Description

WCS loading has failed.

Procedure

1. Reload WCS from the host computer:
   Setup Menu ➔ I/O Devices ➔ Plotter Settings ➔ Machine ➔ Load WCS.

   If problem still exists:

2. Reseat CID Board [B].
3. Replace CID Board [B].