CreoScitex

VLF Trendsetter AL
Cassette-Chariot Safety Loop Retrofit Procedure

1. OVERVIEW

A new safety loop has been designed for the Multiple Cassette Unit (MCU) option of the VLF Trendsetter AL. Several beta MCUs are in the field that need to be retrofitted with the new components.

This document applies to MCU serial numbers BAM001, BAM002, BAM004, BAM005, BAM006, BAM007, BAM008, BAM009, BAM010, BAM012, BAM013, and BAM014. Components of a previous upgrade revision may be installed already. These components should be removed and/or disabled

The procedure will take one person about 2 hours to complete.

2. TOOLS

- 5mm allen key
- 3mm allen key
- 10mm combination wrench
- Phillips head screwdriver (may be required)
- Slot head screwdriver (may be required)
- Drill with 8mm and 3.3mm bits and M4 tap (bits and tap supplied)
- Circuit tester or multi-meter (optional)
- Hack Saw or Jig Saw

3. INSTALLING THE CHARIOT POSITION (SIEMENS) LIMIT SWITCH

1. Type `cass lockout off` to open the chariot (or use the retract button on the chariot lock manifold at the back of the MCU).
2. Remove any cassettes that may be attached to the chariot.
3. Remove the inner blocking panel and modify as shown in the attached drawing.
4. Position the Siemens limit switch in the center of the cassette roller post. There must be no interference with the weld. See Figure 1.



Figure 1: Position the limit switch above the weld

5. Mark the position of one of the switch mounting holes on the cassette post.
6. Drill the hole in this location with the 3.3mm drill bit, then tap it using the M4 tap.
7. Drill and tap the second mounting hole using the limit switch as a guide (a kind of drill jig). See Figure 2.



Figure 2: Install the limit switch

8. Install the remaining hardware.
9. Move the chariot to the fully out position.
10. Position the switch bracket on the chariot leg so that the tab on the bracket activates the limit switch.

    Note: Make sure that the tab will not interfere with the mainframe when the chariot is closed.

11. Mark the bracket holes on the chariot leg. See Figure 3.
12. Drill both holes using the 6.5mm drill bit provided. See Figure 3.

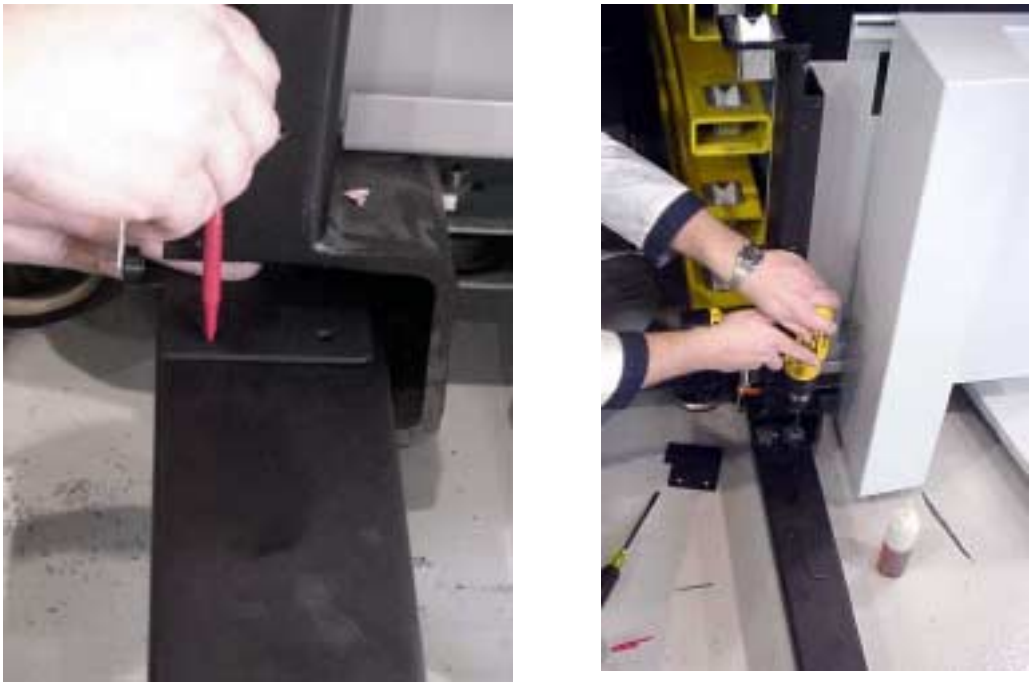


Figure 3: Mark and drill the bracket holes

13. Mount the bracket to the chariot leg with the M6 hardware provided.
14. Adjust the limit switch to be activated when the chariot is fully out.

    Note: The switch should be inactive in all other chariot positions. See Figure 4.

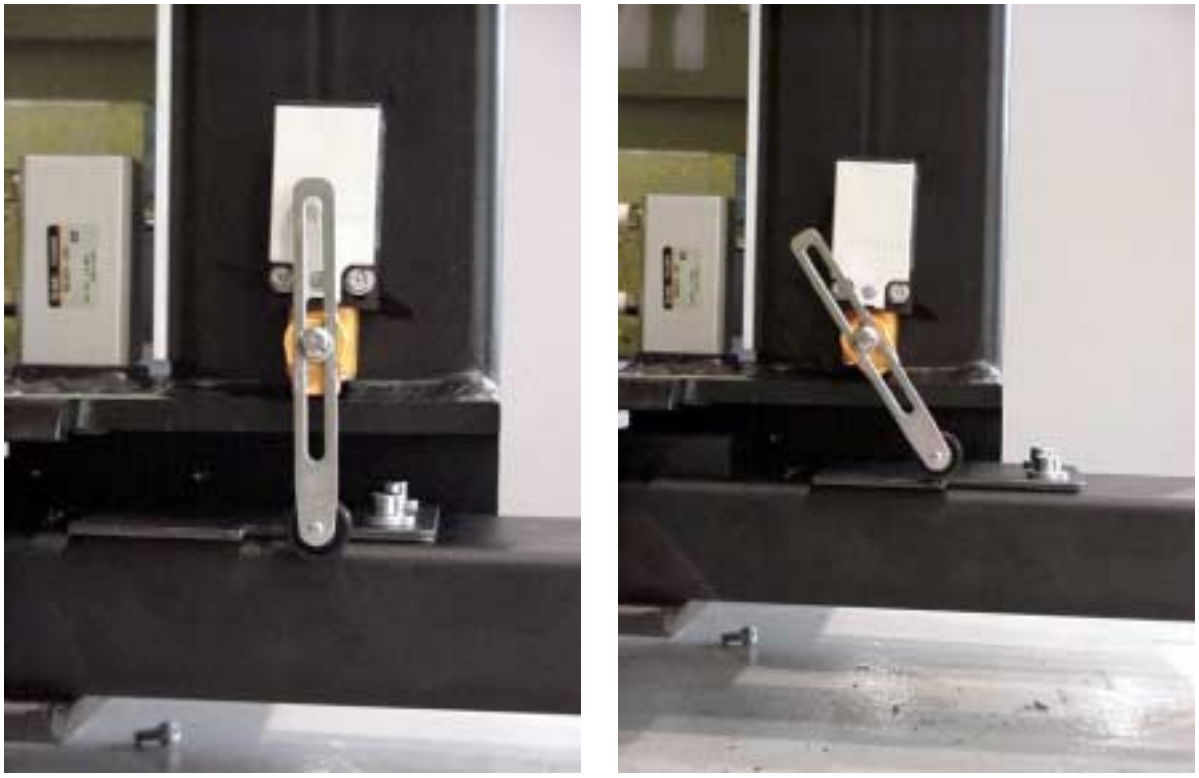


Figure 4: Adjust the sensor
so the limit switch is activated only when the chariot is fully out

4. INSTALLING THE CASSETTE LIMIT SWITCH

1. Start routing the cables from the Siemens limit switch at the base of the cassette post.
2. Run all cables from the limit switch to the base of the cable track. Follow and mount to the existing cables.
3. Route the end that has the cassette limit switch and bracket through the cable track and up the inside of the chariot. Tie the cable down to existing hoses and cables. See Figure 5
4. Mount the cassette limit switch and its bracket to the existing holes under the chariot latch. Adjust the height of the switch so that the roller is activated by the cassette and can move freely under the cassette latch. See Figure 5.



Figure 5: Cassette limit switch in position

5. ROUTING THE CABLE TO THE RELAY BOARD

1. The wires attached to the 2-pin mate'n lok connectors go to the relay board at the back of the MCU. Secure this cable to the existing cables and hoses going to the back of the MCU.
2. Disconnect cable 10-4726A from the relay circuit board. See Figure 6. It may also be labeled 'chariot door'. To ensure that this is the correct cable, check its continuity as follows:
   - With the chariot in the park position, or fully out, the circuit should be closed.
   - In all other chariot positions, the circuit should be open.
3. Connect the new cable to the relay board in place of cable 10-4726A.
4. Connect cable 10-4726A to the female tail on the new cable.
5. Take up any slack in the new cable and tie it down.

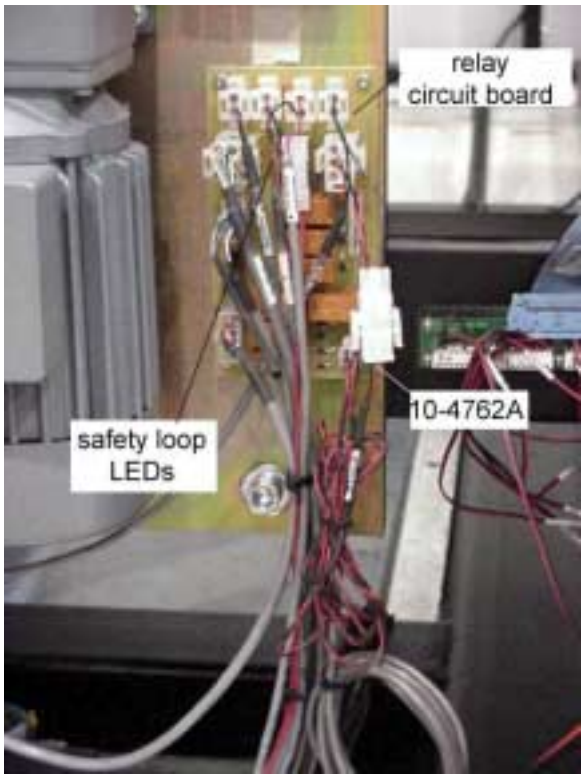


Figure 6: Connecting the cable to the relay board

6. TESTING THE UPGRADED SAFETY LOOP

Test the continuity of the upgraded safety loop using the following procedure:

- If you have a multi-meter or other continuity tester, disconnect the cable from the relay board and connect the leads of the tester to the cable connector pins.
- If you do not have a multi-meter or other continuity tester, turn the machine power on and close all other MCU safety loops. The orange LED on the relay circuit board will light up when the safety loop is closed.

Note: The circuit should only be closed when the chariot is in the park position, and does not have a cassette engaged OR the chariot is in the fully out position and a cassette is engaged.

- When the safety loop is working satisfactorily, replace the modified inner blocking panel.