Trendsetter VLF Autoloader

Adding Bag Sensor to Non-GT SSR

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Revision History

Revision	Date	Author	Comments
01	16 June 2003	Dwayne Brandt	First draft
A	10 July 2003	Dwayne Brandt	Minor revisions
B	20 July 2003	Dwayne Brandt	Minor revisions
C	11 Aug 2003	Angus Gillon	Added drawing of hole locations and details of drilling procedure
D	14 Nov 2003	Dwayne Brandt	Added step to Section 3.4

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1. PURPOSE

This document describes how to install the bag sensor on TS VLF AL slip sheet removal (SSR) bins made before the release of the GT version. An SSR unit that is pre-GT can be identified by its purple door handle and removable umbilical cord.

2. PARTS AND TOOLS

- Upgrade kit: 512-00065A. Includes sensor, cables, cable ties, washers, screws, nuts, tap tool, and step drill.
- Also required (you must supply): drill, 2.5 mm [.10 in] drill bit, center punch, and tape measure.
- Schematic of bag sensor: 713-00046A-A-SD01 (available on TechPlanet at http://techplanet.creo.com/output/computer_to_plate/vlf_trendsetter_al/content/docs/713-00046A-A-SD01.pdf)

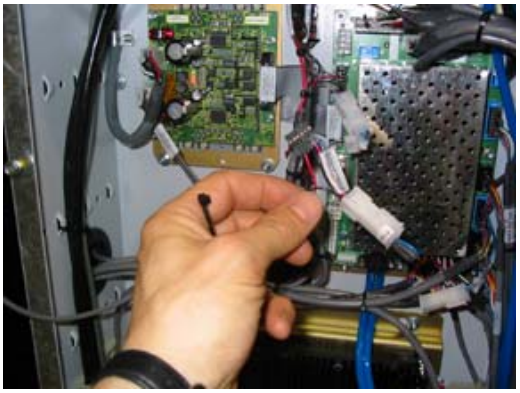
3. PROCEDURE

3.1 Install new cable 220-00303A in the SCU or MCU

1. Switch off power to the Trendsetter VLF Autoloader.
2. Insert the black wire contact into position 1 of the bulkhead connector module for 10-4351C (outside position farthest from the pneumatic connection).
3. Plug into J20 on the Genine board.



(a) Connecting 220-00303A to the bulkhead connector.



(b) Connecting 220-00303A to J20 on the Genine board.

Figure 1: Installing cable 220-00303A

4. Check that resistor assembly 10-5226A is connected to the 4-pin connector.

3.2 Drill and tap the mounting holes in the SSR unit

Drill one 19 mm [.75 in] hole and two 2.5 mm [.10 in) threaded holes in the side wall of the SSR unit for mounting the sensor, as follows:

1. Measure the location of the three holes, referring to Figure 2 for the correct position.
2. Use a center punch to mark the holes.
3. Drill each of the three holes to 2.5 mm [.10 in]
4. Enlarge the middle hole to 19 mm [.75 in], using the step drill.
5. Tap the two outside holes to M3.
6. Deburr any sharp edges.

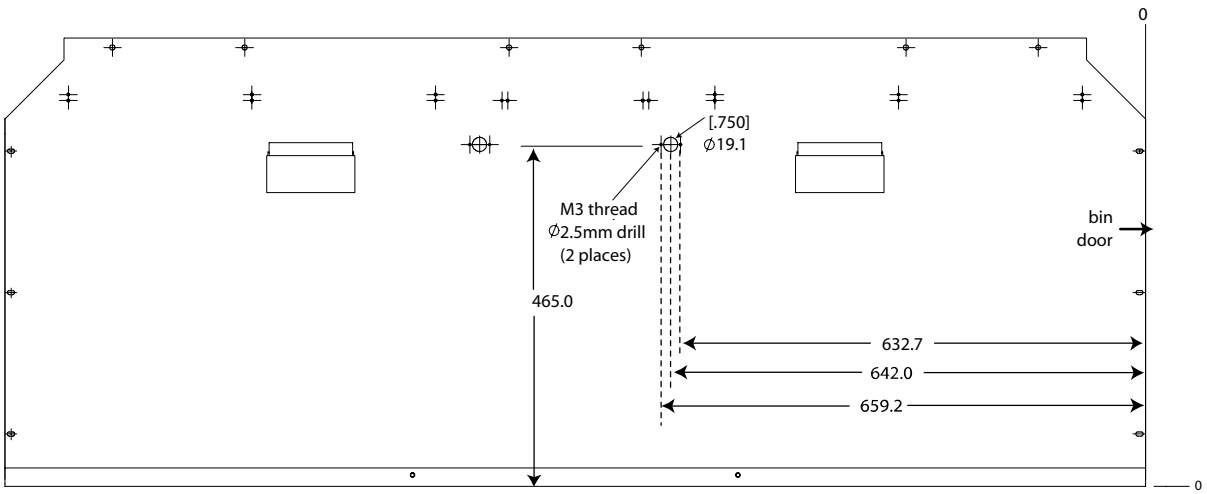
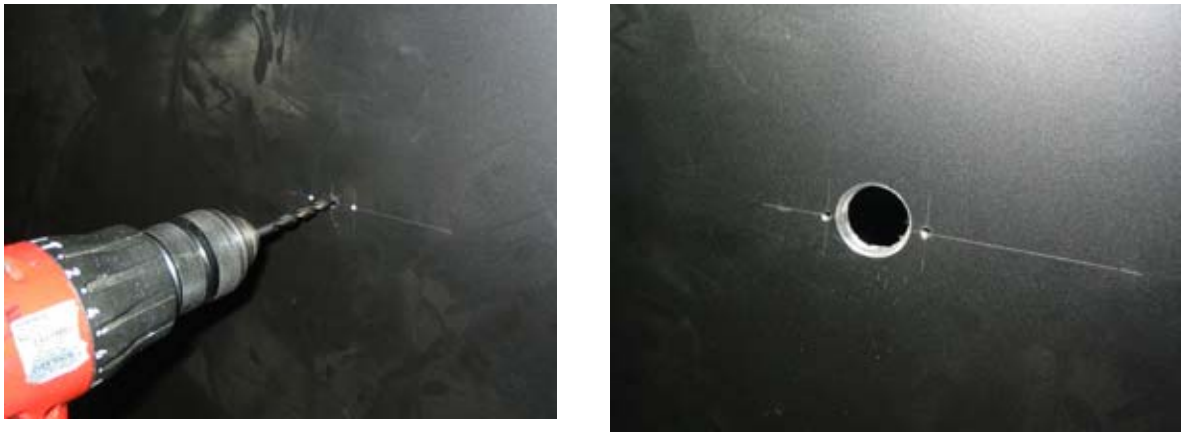


Figure 2: Side wall of SSR Unit, showing locations of three holes to be drilled



Figure 3: Measure the hole locations
(Refer to Figure 2)



(a) Enlarging the middle hole (b) The three holes completed

Figure 4: Drill and tap the holes

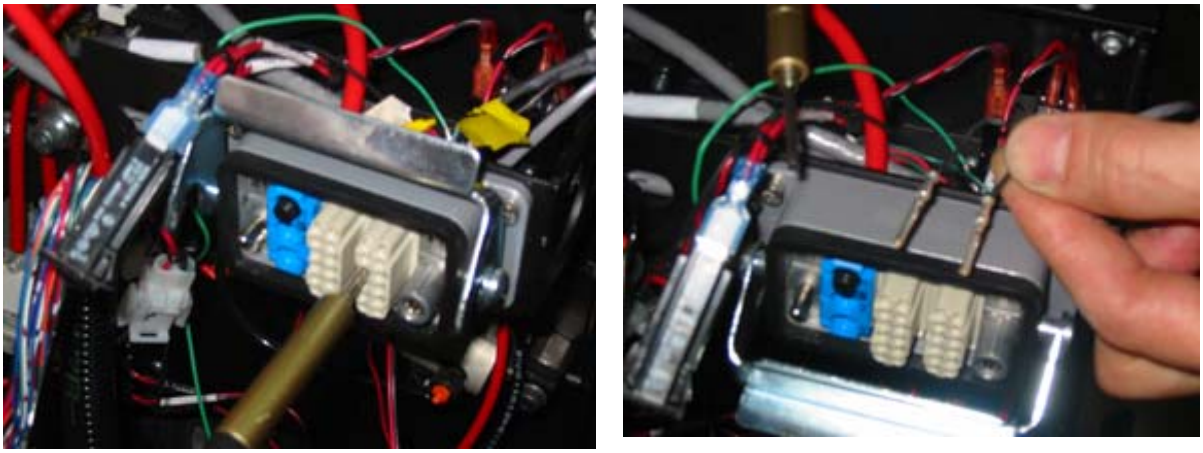
3.3 Install new cable 220-00304A in the SSR unit

1. Connect cable 220-00304A to optical sensor 36-3210 (30 mm range) and run the cable to the bulkhead.



Figure 5: Connecting cable 220-00304A to optical sensor 36-3210

2. Insert the green wire contact into empty position 1 in the right hand module of the bulkhead connector (outside position farthest from the pneumatic connection).
3. Remove contacts 2 and 3 (black jumper wire).
4. Insert red wire contacts into positions 2 and 3.



(a) Green wire contact (b) Red wire contact

Figure 6: Connecting cable 220-00304A to the bulkhead connector

5. Disconnect the Bin Full Sensor connector and insert the new 4-pin segment in-line to provide grounding for the bag sensor.

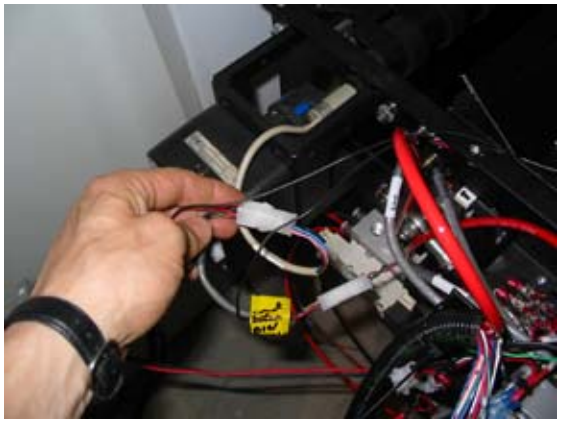


Figure 7: Grounding the bag sensor

3.4 Set NVS parameters

Type `<set val nci 2>` and `<save>`.

Type `<set val ncs 1>` and `<save>`.

See MPE 2.0 firmware release notes in TechPlanet at:
http://techplanet.creo.com/output/computer_to_plate/vlf_trendsetter_al/nav/crelease20.htm

3.5 Verify machine operation

1. Type: *ssh*
2. Read the status of the sensor. It should show that the SS bag is **In**. If not, try to adjust the position of the sensor by adding more or fewer washers under the optical sensor (to a maximum of 5 washers).
3. Open the SSR door and remove the bag. *set state val sscount* should be **0**.