

Trendsetter II CL to AL upgrade

Converting a TS II ContinuousLoad to an Autoloader

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CONTENTS

Revision History i

1. Introduction 1
   1.1 Scope 1
   1.2 Parts required 1

2. Removing the ContinuousLoad load table 1

3. Installing the Autoloader load table 3

4. Final checks 7

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1. INTRODUCTION

1.1 Scope

This document describes the procedure for upgrading a Trendsetter II ContinuousLoad (CL) to an Autoloader (AL) device. There are three major steps:

- Removing the CL load table
- Installing the AL load table
- Final checks

1.2 Parts required

518-01736A KIT,CL TO AL UPGRADE (includes all the parts below)

518-00724A KIT,KANBAN,LOAD TBL,AL,TSM

518-01391A KIT,1ST AID,ASSORTED HARDWARE,TSM

518-01737A KIT,CL TO AL,SMALL PARTS BUNDLE

18-3014	CAB,TIE,ADH MNT,20MM SQ,DIAGNL HOLES,BLK	x10
55-0134	FTG,LUER,MALE,2.25MM ID TUBE,NYLON,WHITE	x5
55-0135	FTG,LUER,FEM,2.25MM ID TUBE,NYLON,WHITE	x5
56-1041	TUBE,AIR,4 OD(5/32"),BLUE,POLYURETHANE	x1
56-1038	TUBE,AIR,4 OD(5/32"),RED,POLYUTRETHANE	x1
55-0423	UNION,STRAIGHT,AIR,5/32"-5/32"TUBE	x4

2. REMOVING THE CONTINUOUSLOAD LOAD TABLE

1. Raise the unload table and lock it in place by putting two lock pins on both the away and home side.
2. Turn off the power and air pressure.
3. Remove the back and top access panels.
4. Remove the hose tray.
5. Cut all the cable ties that hold the tubing harness coming from the home side of the load table to the home side manifold.
6. Disconnect all hoses from the home side manifold.

7. Remove the black hoses that go to the two exit door cylinders and discard. They are not used for the AL.

8. Remove the home side manifold (ContinuousLoad manifold).

9. Loosen both the home and away side Omron switches and remove the brackets holding the switches. The switches must be routed toward the front of the device. Discard the brackets. See Figure 1.

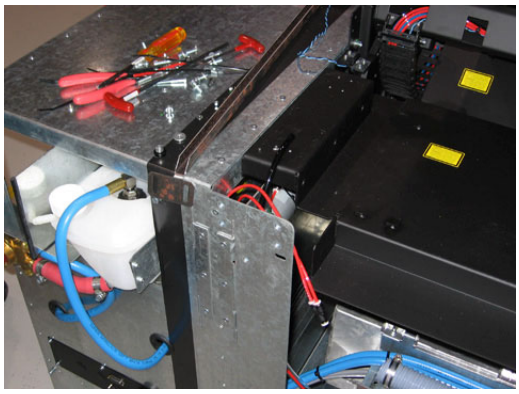


Figure 1: Manifold, Omron switch and bracket removed

10. Remove electrical cable 220-00218B that connects the old manifold to connector J21 on the Genine board. Discard the cable. This cable also connects to the LED status cable (220-00345B) coming from the away side of the load table

11. From the away side of the load table, disconnect picker sensor cable 220-00349B. It connects to J2 on the Genine board.

12. Disconnect the exit door cylinder sensor cable on both the home and away side. Do not remove the cable. Fold the cable and tighten it under the frame so that it will not get in the way of any moving parts.

13. Remove the top front access panel. See Figure 2

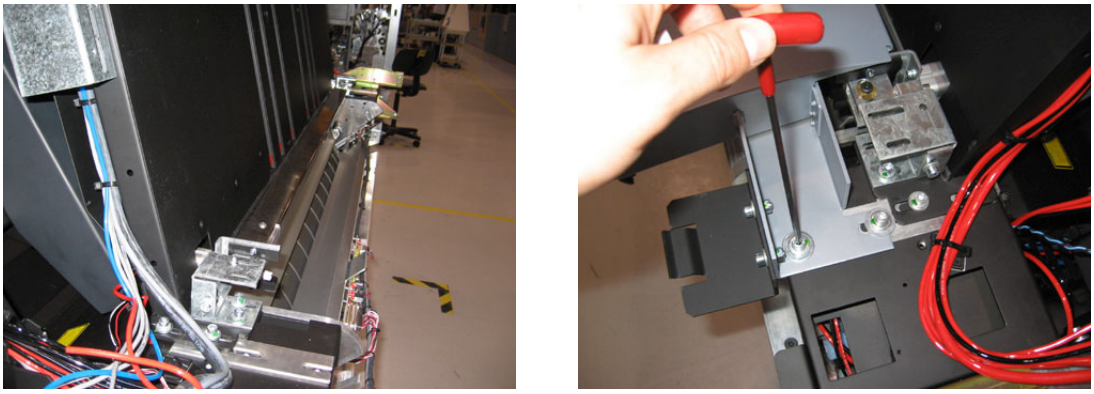


Figure 2: Removing top front access panel

14. Remove the load table:

WARNING: This part of the procedure requires at least two people.

- Make sure the table is secured and will not tilt backward or fall as soon as the screws holding it in place are loosened.
- Remove the three screws that hold the table in place from both away and home side.
- Lift the table up and put it down safely on the floor

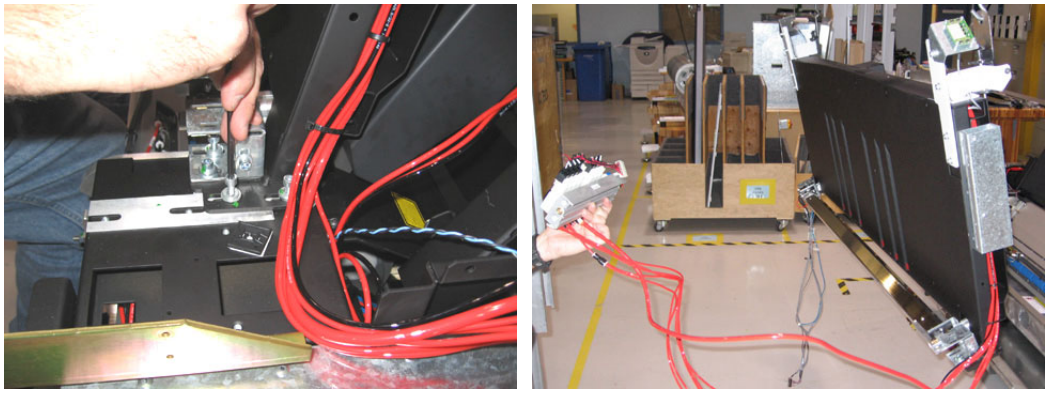


Figure 3: Removing the CL load table

3. INSTALLING THE AUTOLOADER LOAD TABLE

1. Open the crate containing all the autoloader items (518-00724A).
2. Reinstall the two Omron switches (home and away) at the front of the device. These switches are routed from the back to the front. The red front part must be turned 90°, by removing the four front screws. See Figure 4.

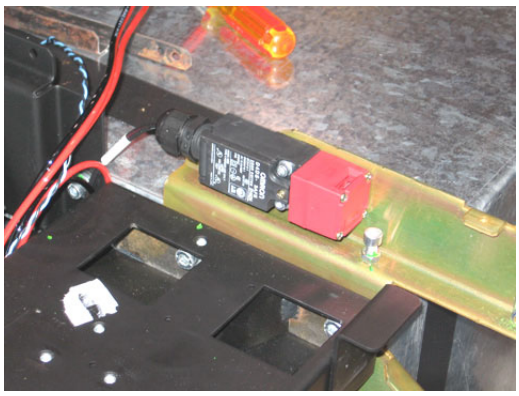


Figure 4: Omron switch installed (home-side view).

3. Open box 50-1720B and remove the new cables and manifold.
4. Install the new manifold assembly on the home side. See Figure 5.

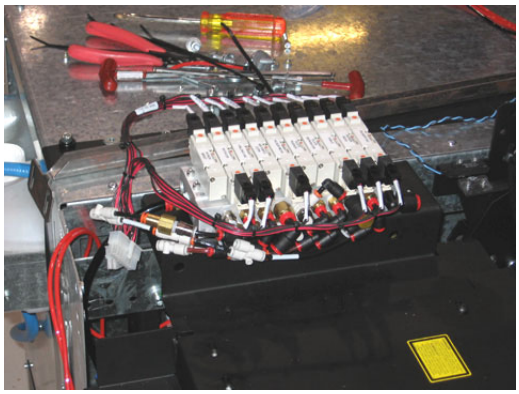


Figure 5: New manifold installed

5. Install the new Autoloader load table:

WARNING: This part of the procedure requires at least two people.

- Make sure that the metal shims that were sitting under the CL load table have been removed. They are not used with the AL load table.
- Lift up the AL assembly and align it with the threaded holes on both the home and away side.
- Bolt the assembly in place using three screws on both sides.
  The table should be positioned so that the screws are sitting in the middle of the slots on both the home and away side. See Figure 6.

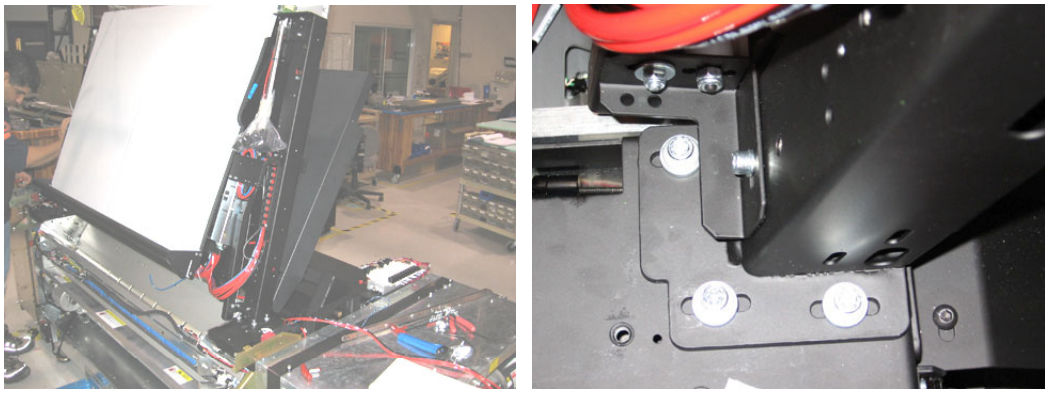


Figure 6: Positioning the table

6. Tighten down the new status light/lock door cable 220-00737A on the away side of the table. This cable connects down to J23 on the Genine board. Tighten the small two-pin cable labeled **Lock-AL** so that it faces up.
7. Connect cable 10-4857A to the above cable. The four-pin connector is not connected to anything.
8. Route cable 220-00737A down, under the metal frame, and toward the power box entrance. See Figure 7.

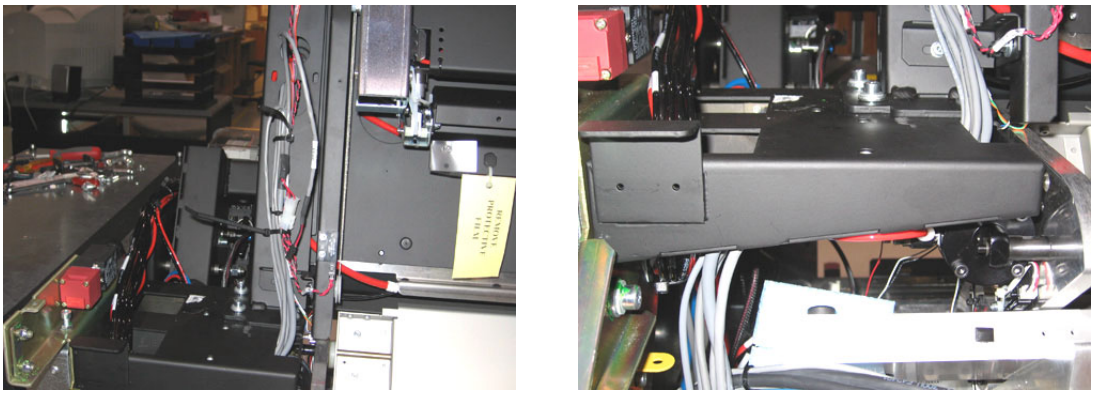


Figure 7: Routing cable 220-00737A

Route the cable inside the power box and connect it to J23 on the Genine board.

9. On the home side, route the hosing from the load table to the manifold. See Figure 8.

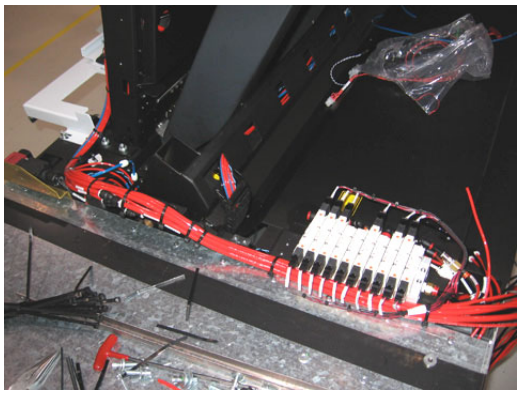


Figure 8: Routing the hoses to the manifold

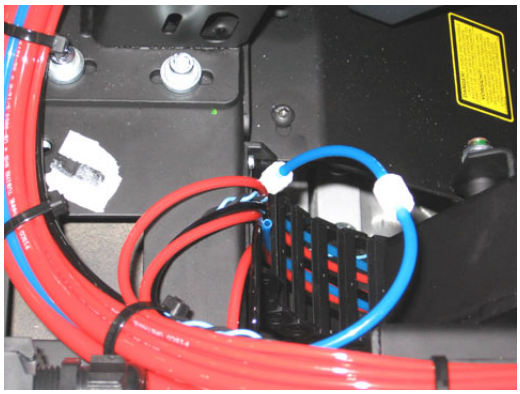


Figure 9: Extending the blue hose

10. The blue hose coming from the load table connects to the *farthest, away-side, blue hose* in the hose/cable track. Use extender 55-0134 and 55-0135 to connect them. See Figure 9.

11. Connect the new cable 10-4871B from the manifold to J21 on the Genine board and then route the cable under the carriage cable track to the power box.

12. Reinstall the hose tray.

13. Connect the two red hoses coming from the unload cylinder (left from the CL) to the manifold:

    - Remove the Y-connector—the hoses connect separately on the manifold.
    - If the hose is too short, use some of the extra hose supplied and connect the hose using the straight, quick-connect fittings (55-0423) provided.

14. From the load table, connect the black hoses before connecting the red hoses to make it easier. Make sure to match the hose labels with the solenoid labels. You may have to cut the hoses to shorten them.

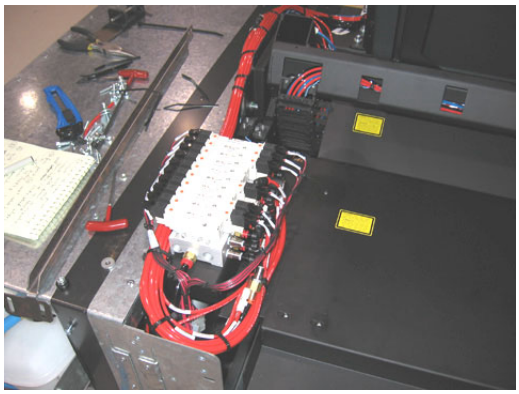


Figure 10: Manifold hoses

15. Set up the front top access panel:
    - Install the rubber band
    - Install door safety switch cable 10-3805A. Use black cable holders (10-3805A) to route the cable properly. See Figure 11.

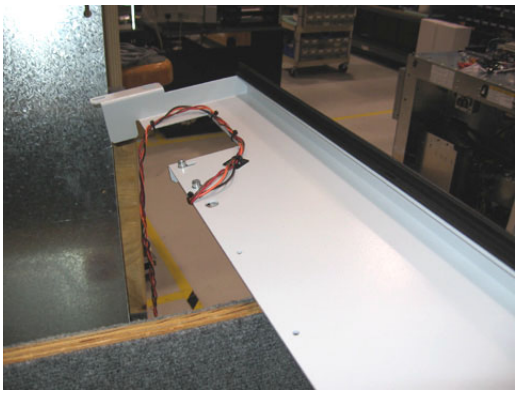


Figure 11: Door safety switch cable

16. Install the front top panel access door. Make sure it is aligned with the front access door.

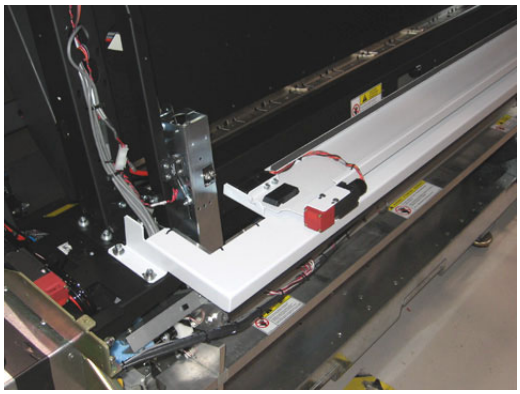


Figure 12: Front top panel access door

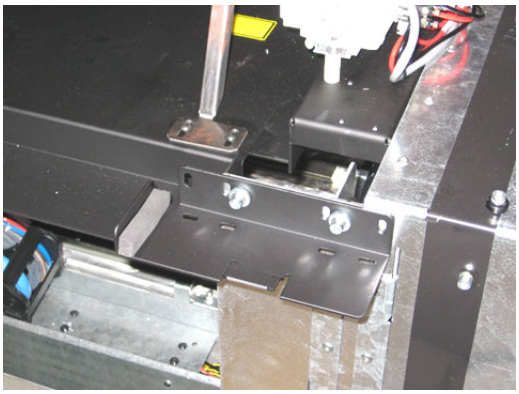


Figure 13: Panel locking bracket

17. Install the new panel locking brackets on the back of the device to both home and away sides. See Figure 13.

18. Install the new panels—home/away pillar and collar panels.

Note: Don't forget to connect the lock/unlock cylinder in the away-side, pillar panel.

19. Check to make sure that the separator arms are not hitting the separator speed controls when the arms are in the retracted position. If there is a problem, use cable ties to hold the speed controls back so that they will not get hit.

20. Remove any cable ties and foam holding the picker elements in place, and gently guide the picker head down.

21. Adjust the picker wire tension according to the instructions in the TS AL preventive maintenance procedure: http://techplanet.creo.com/output/computer_to_plate/trendsetter_al/content/docs/TS_AL_PM.pdf

22. Turn the air pressure back on, and switch on the device.

4. FINAL CHECKS

1. Enter the new feature license in the CTP Feature Licensing manager. The new license will allow the use of an Autoloader component.
2. In firmware, change the option in the device using **`set option <xxxx>`**
   - Disable ContinuousLoad
   - Enable Autoloader
3. Reset the device.
4. Check the device functionality by picking/loading/unloading a plate before starting Print Console.
5. Reconfigure Print Console to properly display the Autoloader interface.