Trendsetter VLF Autoloader

Delicate Media Picker Roll Bar Home and Away Sensor Adjustment

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Revision History

Revision	Date	Author	Comments
PRE	20 Jan 2004	Rick Baggett	First draft
A	11 Feb 2004	Rick Baggett	Minor revisions and addition of part number

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1. INTRODUCTION

Delicate Media (DM) pickers with serial number DM007 or later have control switches and an indicator light on the picker deck (see Figure 1). Field service can use these to manually drive the picker roll bar, and to set up the roll bar home and away sensors.

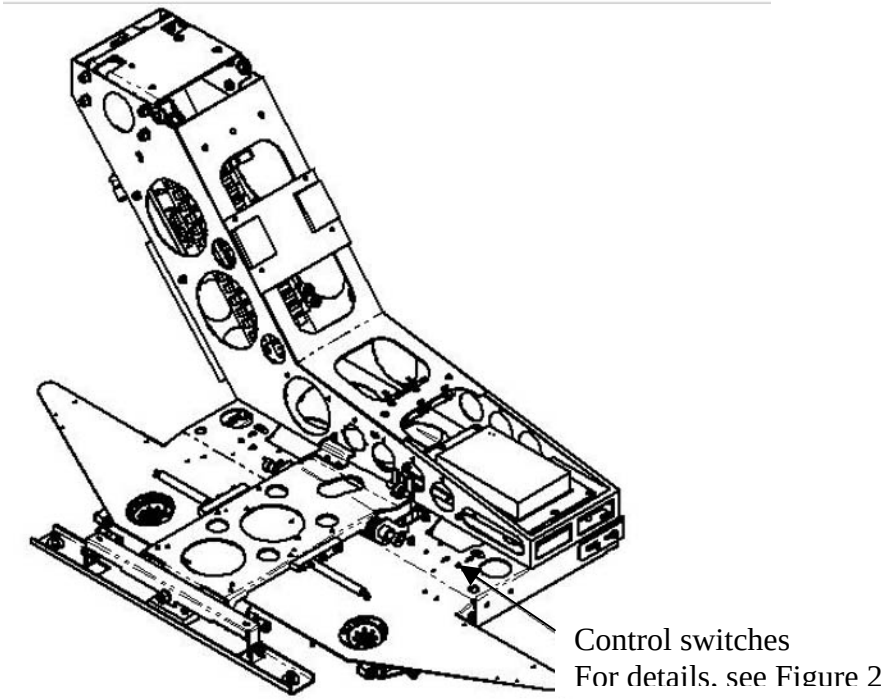
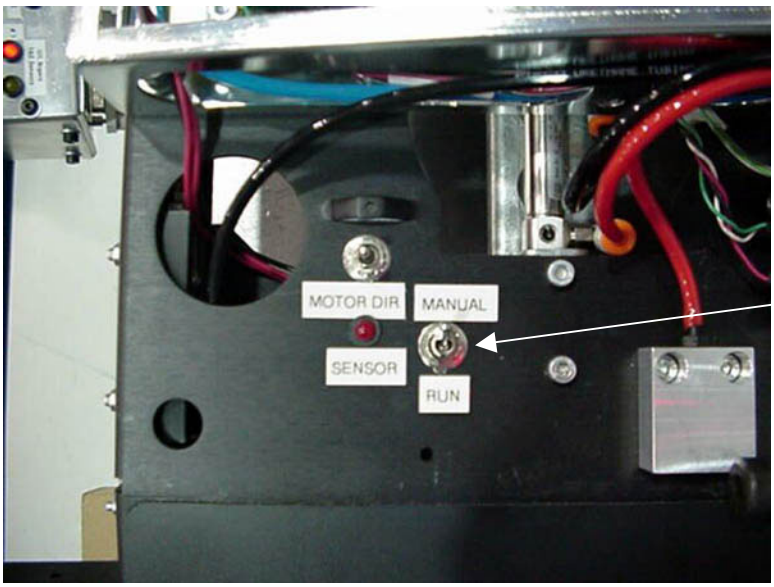


Figure 1: DM picker, showing location of control switches



The Manual/Run switch must be in the 'Run' position for the roll bar to respond to firmware commands.

Figure 2: Control switches and indicator light on DM picker body

The power for the roll bar drive motor is supplied from the diagnostics jack on the Genine board (see Figure 3).

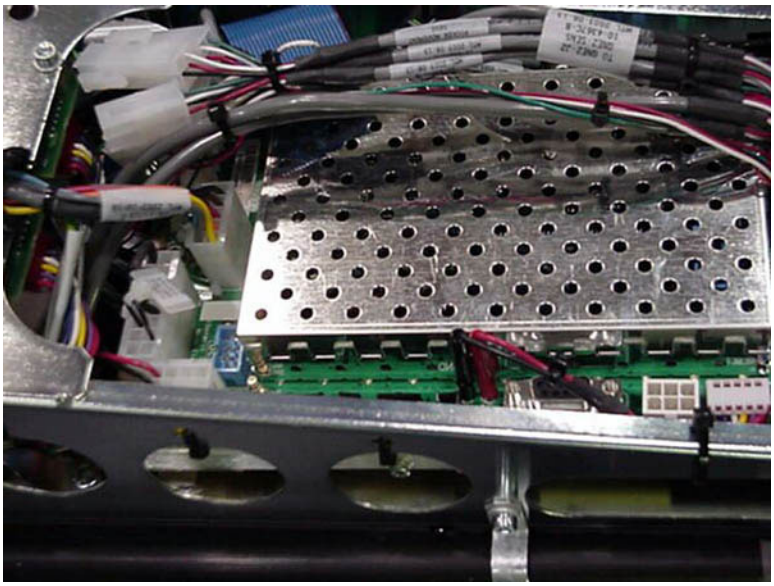


Figure 3: Power connections on Genine board

The roll bar home and away sensors are positioned and tested in Production. The adjustment procedures in this document should only be necessary if a sensor needs to be replaced, or has been knocked out of adjustment.

2. ADJUSTING THE SENSORS

1. Open a diagnostics window and enter **picker idle**.
2. Move the picker manually to a position where you can access the home and away stops on the roll bar.

   On a right-to-left machine, the stops are on the machine side. On a left-to-right machine, the stops are on the operator side.
3. Remove the cover from the picker.
4. Lift the picker arm and support it with the support arm.
5. Locate the connectors labeled TEST, HOME, and AWAY (see Figure 4).

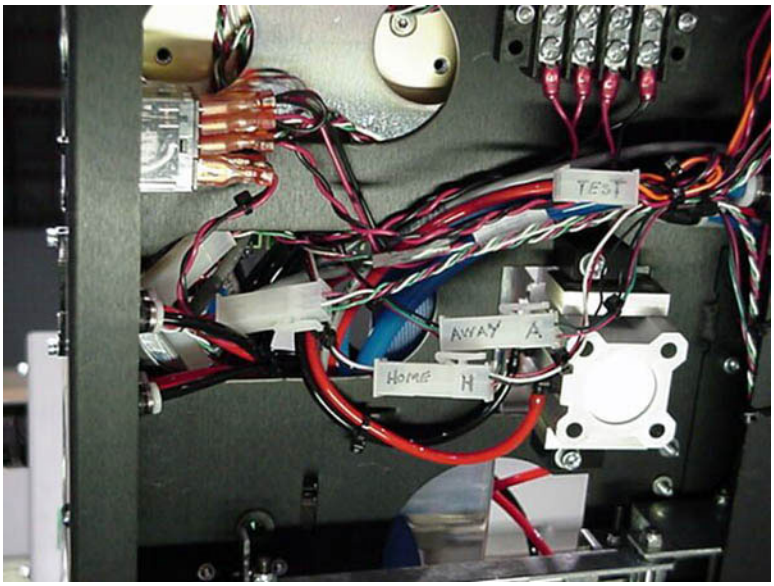


Figure 4: Location of TEST, HOME and AWAY connectors

2.1 Adjusting the Home Sensor

1. To test or to set up the home sensor, disconnect the HOME plug and insert it in the TEST receptacle (see Figure 5).

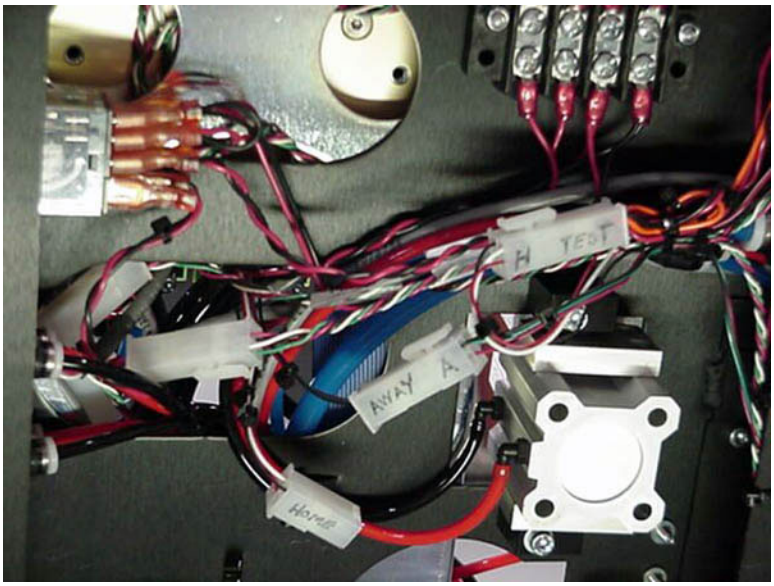


Figure 5: HOME plug in TEST receptacle

2. Lower the picker arm.
3. Enter **picker ss down** to lower the roll bar to the table surface.

   The roll bar should be in the HOME position.

4. Put the 'Manual/Run' switch in the 'manual' position and toggle the 'Motor Dir' switch towards the picker arm body (see Figure 2) to move the roll bar away from the home position.

5. When the home stop is clear of the roll bar pivot arm, slide a short length of 5/32" tubing over the home stop (see Figure 6).

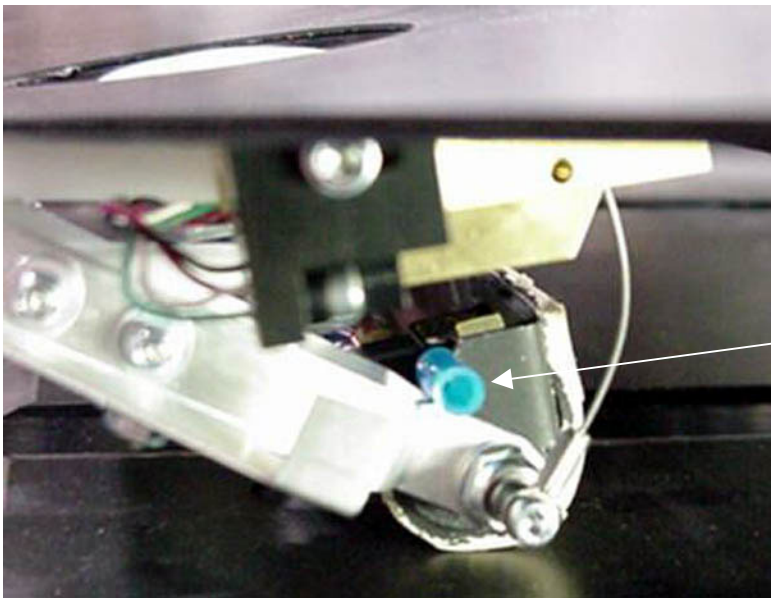
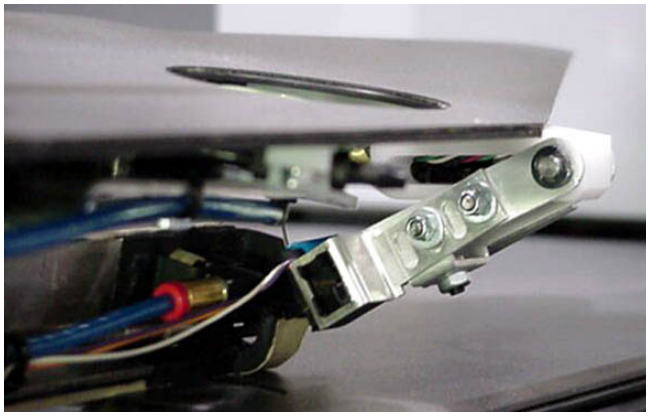


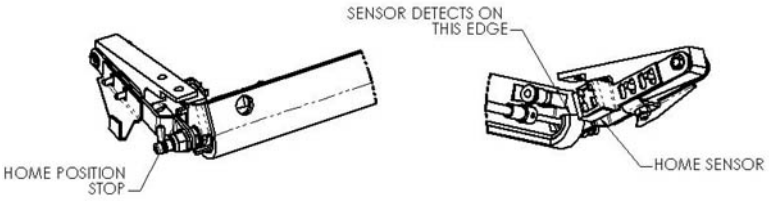
Figure 6: Tubing (blue) placed over home stop

6. Toggle the 'Motor Dir' switch away from the picker arm body until the tubing just contacts the roll bar pivot arm. This gives the desired margin setting for the away sensor.

7. Loosen the nuts securing the home sensor mounting bracket slightly, so that the home sensor can be adjusted (see Figure 7a).

   As you move the sensor past the edge of the home tab on the roll bar (see Figure 7b), the sensor light on the picker deck (see Figure 2) will go on and off. The correct position for the home sensor is when the sensor light just goes OFF. To achieve this, move the sensor down so that the light is ON, then slowly move the sensor up until the light goes OFF.





(a) Mounting bracket for the home sensor (b) Details of home sensor

Figure 7: Home sensor

8. When you are satisfied with the setting, tighten the mounting bracket nuts and remove the tubing from the home stop.

9. Enter **picker ss up** to raise the picker bar to its UP position.

10. Raise the picker arm and disconnect the HOME plug from the TEST receptacle. Reconnect it to the HOME receptacle.

2.2 Adjusting the Away Sensor

1. To test or set up the away sensor, disconnect the AWAY plug and connect it to the TEST connector (see Figure 8) .

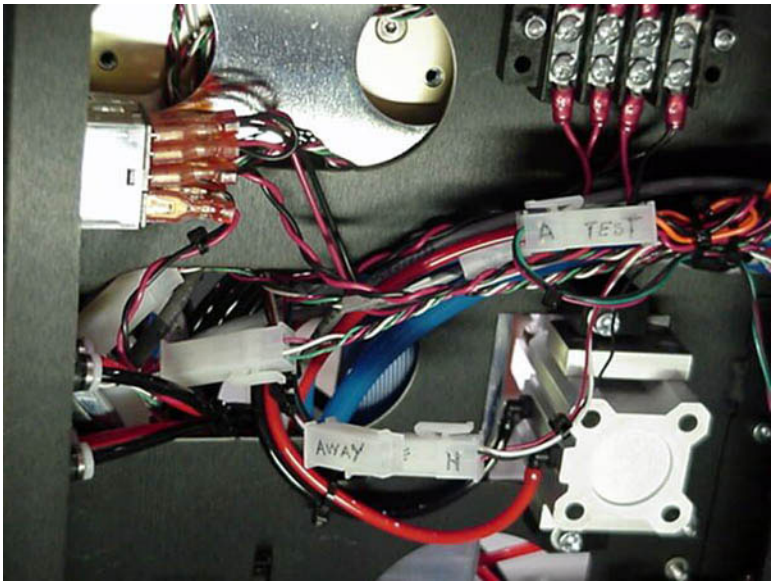


Figure 8: AWAY plug in TEST receptacle

2. Lower the picker arm.

3. Enter **picker ss down** to lower the roll bar to the table surface.

   The roll bar should be in the HOME position.

4. Put the ‘Manual/Run’ switch in the ‘manual’ position and toggle the ‘Motor Dir’ switch towards the picker arm body (see Figure 2) to move the roll bar away from the home position.

5. When the home stop is clear of the roll bar pivot arm, slide a short length of 5/32” tubing over the away stop (see Figure 9).

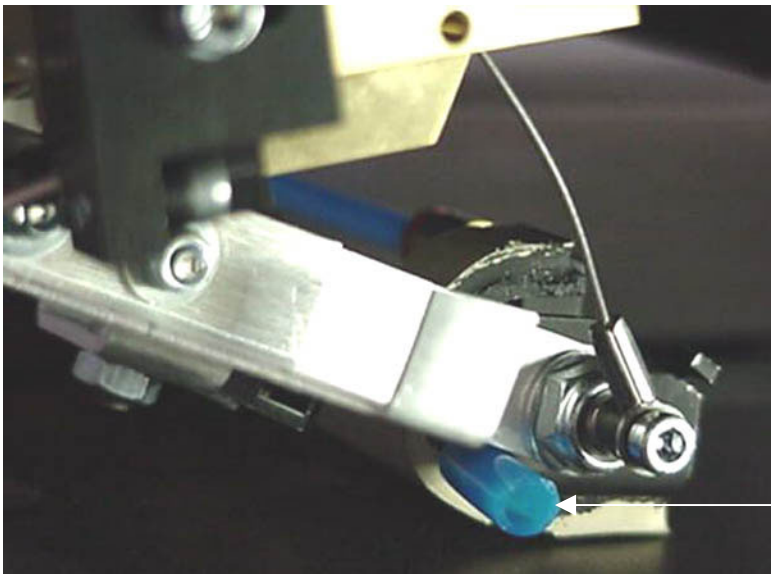


Figure 9: Tubing (blue) placed over away stop

6. Toggle the ‘Motor Dir’ switch away from the picker arm body until the tubing just contacts the roll bar pivot arm. This gives the desired margin setting for the away sensor.

7. Loosen the nuts securing the away sensor mounting bracket slightly, so that the away sensor can be adjusted (see Figure 10).

   As you move the sensor past the edge of the roll bar, the sensor light on the picker deck (see Figure 2) will go on and off. The correct position for the away sensor is when the sensor light just goes ON. To achieve this, move the sensor up so that the light is OFF, then slowly move the sensor down until the light goes ON.

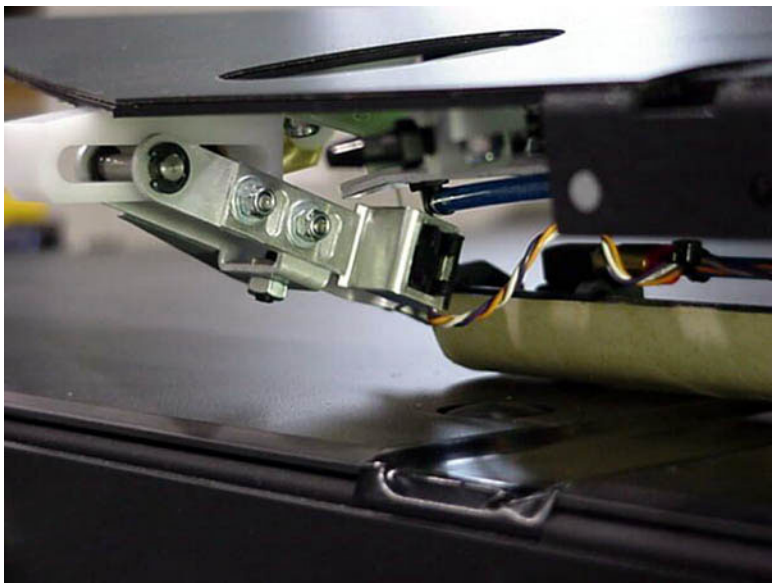


Figure 10: Mounting bracket for the away sensor

8. When you are satisfied with the setting, tighten the mounting bracket nuts and remove the tubing from the away stop.

9. Enter **picker ss up** to raise the picker bar to its UP position.
10. Raise the picker arm and disconnect the AWAY plug from the TEST receptacle. Reconnect it to the AWAY receptacle.

3. FINISHING UP

1. Lower the picker arm.
2. Put the 'Manual/Run' switch in the 'run' position.
3. Install the picker cover.
4. Enter **picker init** to initialize the picker.
5. Check for error messages.