Trendsetter VLF Autoloader

SSR Safety Cover Upgrade Procedure

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Revision History

Revision	Date	Author	Comments
PRE	24 Oct 2003	Angus Gillon Peter Yuen	Initial draft
A	06 Nov 2003	Angus Gillon	Initial release

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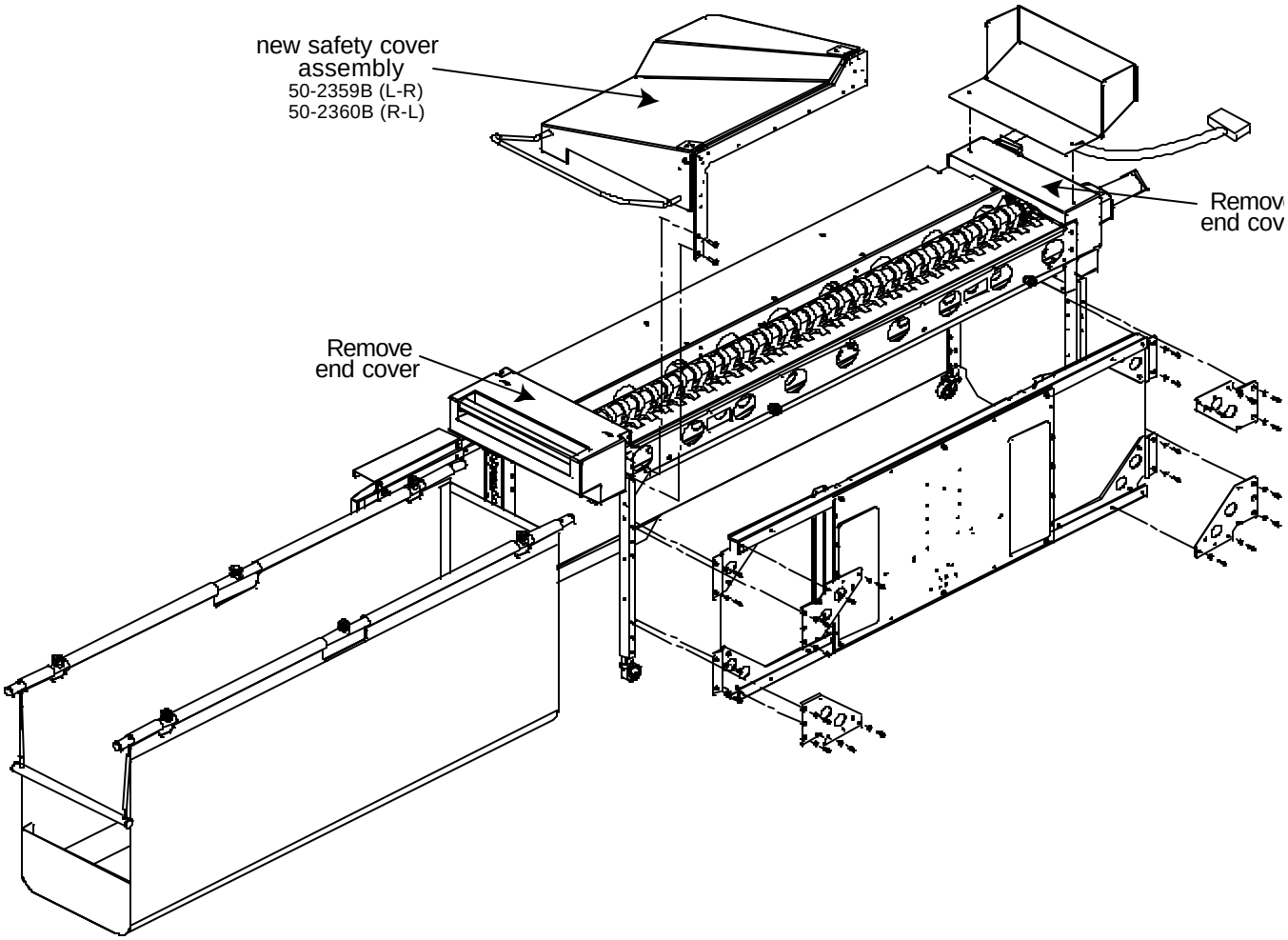
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1. PARTS AND TOOLS

- Upgrade kit 512-00077A (R-L)
- Upgrade kit 512-00078A (L-R)
- Pin extractor (part number 690-00121).

2. INSTALLING THE SSR SAFETY COVER ASSEMBLY

1. Turn off the main Autoloader power.
2. Unplug and remove the SSR unit from the Autoloader.
3. Remove the two end covers (on drawing 50-2308A, item 20 on sheet 2 and item 180 on sheet 3).
4. Remove the fixed safety cover and its two support brackets.
5. Install the safety cover assembly: 50-2359B (L-R) or 50-2360B (R-L)



3. INSTALLING THE SSR CABLE ASSEMBLY

The procedure for installing the new cable assembly (10-5055A) depends on which previous version of SSR cable assembly is installed in the unit. Check to see whether the unit has the Version 1 cable or the Version 2 cable.

Version 1: the terminal block inside the SSR cable housing has four red wires attached to it, with three shorting jumpers connecting all four poles of the terminal block together.

If the cable is version 1, use the procedure in Section 3.2: Replacing a Version 1 SSR Cable Assembly

Version 2: The terminal block has 12 wires attached to it, with only one shorting jumper joining four red wires.

If the cable is Version 2, use the procedure in Section 3.1: Upgrading a Version 2 SSR Cable Assembly.

3.1 Upgrading a Version 2 SSR Cable Assembly

If the cable assembly is Version 2, it already has a length of cable for the new flip-up cover switch, but it is looped from the terminal block back to the terminal block, unused until the cover switch is present. The cable connections just need to be changed slightly, as follows:

1. Locate the cable end that is labeled 'TO COVER SW'. It should be attached to the terminal block with fork terminals and have four wires (red, black, green and white).
2. Disconnect the four wires that have fork terminals from the terminal block.

   Note: Do not disconnect the two black wires or the two white wires that have ring terminals.

3. Route the disconnected cable end through the SSR unit to the new cover switch.
4. Connect the wires to the terminals on the cover switch as follows:
   - White wire to terminal 11
   - Green wire to terminal 12
   - Black wire to terminal 21
   - Red wire to terminal 22

3.2 Replacing a Version 1 SSR Cable Assembly

If the cable assembly is Version 1, the entire assembly must be replaced, as follows:

1. Remove pin 7 from the LEFT connector on the terminal block, using the pin extractor (part number 690-00121). Refer to Figure 1.

   The LEFT connector has wires in all 12 pins.

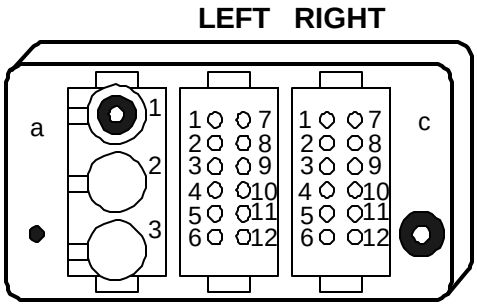


Figure 1: Connections on terminal block

2. Remove pins 4,5 and 8 from the RIGHT connector on the terminal block, using the pin extractor (part number 690-00121). Refer to Figure 1.

   The RIGHT connector does not have wires at pins 1 and 12.

3. Disconnect and discard the short red wire that is attached to pin 8.

4. Connect the new cable assembly (10-5055A) to the terminal block as follows:

   - Long red wire to pin 8 on the RIGHT connector
   - Long green wire to pin 5 on the RIGHT connector
   - Short red wire to pin 7 on the LEFT connector
   - Short green wire to pin 4 on the RIGHT connector

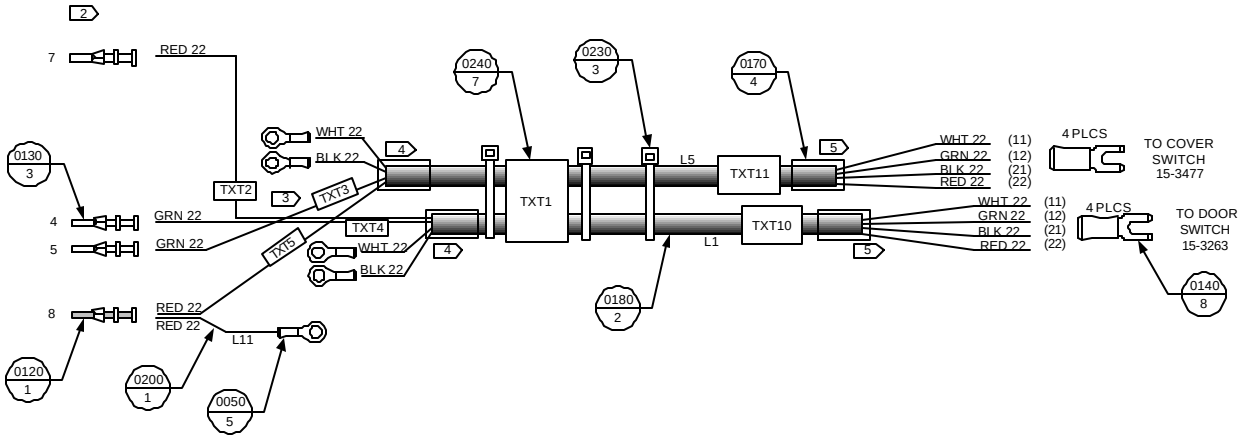


Figure 2: Cable assembly 10-5055A

5. Re-connect the three red wires that remain attached to the terminal block with three shorting jumpers. All three should be on two poles of the terminal block, with room for one red wire from the new cable assembly. Use one shorting jumper to connect the two poles.

6. Attach the short red wire to the other three red wires on the terminal block. All four red wires should now be connected together.

7. Discard the two unused shorting jumpers, or keep them as spares.
8. Connect the four ring terminals on cable 10-5055A to the terminal block so that the two black wires are together on one of the two unused poles, and the two white wires are together on the other unused pole.
9. Route both cables through the SSR unit toward the switches at the front.
10. Attach the cable marked “TO BIN DOOR SW” to the bin door switch, as follows:
    - White wire to terminal 11
    - Green wire to terminal 12
    - Black wire to terminal 21
    - Red wire to terminal 22
11. Attach the cable marked “TO COVER SW” to the new flip-up cover switch, as follows:
    - White wire to terminal 11
    - Green wire to terminal 12
    - Black wire to terminal 21
    - Red wire to terminal 22

4. TESTING THE SYSTEM

1. Power up the Autoloader.
2. Start the SSR rollers moving.
3. Open the lower bin door. The SSR rollers should stop.
4. Close the bin door and start the SSR rollers moving again.
5. Open the new safety cover. The SSR rollers should stop.