Drum Resistive Brake Upgrade

Document number: 719-00331A-B

Product	FCO priority
Magnus VLF	Next visit

Machines affected

Background

The drum brake system requires new relays to overcome the voltage drop in the safety loop.

Solution

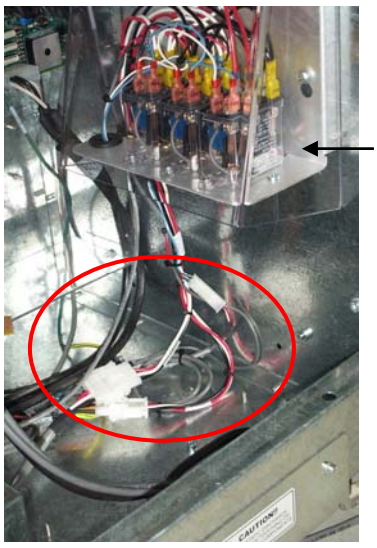
Update the drum resistive brake assembly by adding space for two additional relays.

Parts required

Part Number	Part Name	Quantity
512-00164A	FCO CA04683 upgrade kit	1

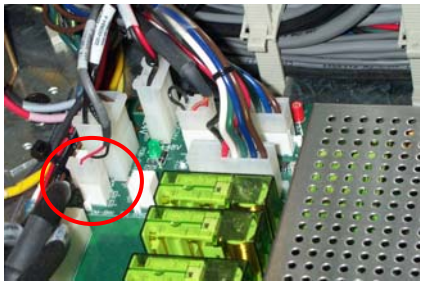
Remove version-A resistive brake assembly

1. Remove the away side rear panel and the power box panel.
2. Disconnect the following cable connectors from the resistive brake assembly:
   a. Two 4-pin Mate-N-Lok connectors
   b. 4-pin Mini-Fit connectors
   c. Cable 550-00058A connector



Resistive brake assembly

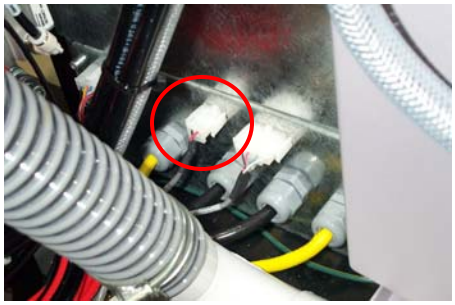
3. Inside the power box, disconnect the connector at the other end of cable 550-00058A from J1 of the power distribution board (PDB).



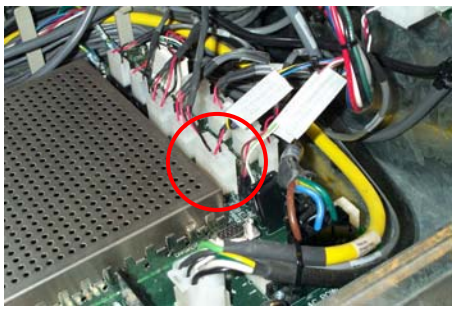
4. Remove the resistive brake's clear plastic cover.
5. Undo the M5 screws mounting the resistive brake assembly and remove it from the power box.

Remove cable 220-00044A

1. Disconnect cable 220-00044A from J3 of the power entry box (PEB).



2. Disconnect cable 220-00044A from J44 of the PDB.



3. Remove cable 220-00044A from the cable track and remove it from the power box.

Install cable 220-00044B

1. Connect cable 220-00044B to J44 of the PDB.
2. Route the cable branch marked *PEB(J3)-PDB(J44) 220-00044B-A* through the exit at the back of the power box. Pull through enough cable so that you can route it along the cable path to J3 at the back of the PEB—1.4 m should be enough.



3. Route the cable branch marked *RES BRAKE J5 -PDB(J44)* to the right hand side of the power box to where the new resistive brake assembly will be mounted.

Install the new resistive brake assembly

1. Install the version-B resistive brake assembly in the same location as the old one with four M5 screws.
2. Connect the following cable connectors to the resistive brake assembly:
   a. 4-pin Mate-N-Lok connector from cable 10-9058A
   b. 4-pin Mate-N-Lok connector from cable 10-9059A
   c. 4-pin Mini-Fit connector from cable 10-5131A
   d. 4-pin Mini-Fit connector from cable 220-00044B
3. Route cable 500-00058B from the resistive brake to the left hand side of the power box and connect it to J1 of the PDB.
4. Install the resistive brake's clear plastic cover.
5. Fasten all cables neatly with cable ties.
6. Install all panels.

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