

SUBJECT: Albright HV500 Contactor – CRC AUX Contact

This bulletin addresses a common failure that is impacting the operation of the Albright HV500 contactor on certain models of Daifuku AGVs.

Component Involved:

- Albright HV500 contactor (Daifuku part # 2051550)
 - This part is used as both CRM (main contactor) and CRC (charging contactor).
This issue only relates to the HV500 being used as the CRC contactor.

Models Impacted:

This issue applies to AGVs that utilize magnetic-guided navigation (i.e., AGVs equipped with a CCU Board and magnetic sensor).

The following models may be impacted by this issue:

- All configurations:
 - M100-ST-M
 - M100-STR-M
 - M100-TT-M
 - M100-TTR-M
- Only configurations without the Category 3 Safety Circuit option:
 - M300-TT-M
 - M300-SCR-M
 - M300-TTR-M

Failure Description & Root Cause:

The CRC contactor's auxiliary (AUX) contact is used to control power to the CRM coil. Its normal function is to force the CRM contactor to open while the AGV is charging. This control method worked properly with the contactors previously used by Daifuku. However, the Albright HV500 contactor draws a higher inrush current to close and has a slightly lower AUX contact current rating, compared to the prior contactors. As a result, the CRC contactor's AUX contact is not always supplying sufficient power for the CRM to close properly.

For questions or concerns regarding this service bulletin, call Daifuku Customer Service at 1-877-529-3221 or email at support1@daifukuna.com.

Page 1 of 2

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Symptoms Observed:

- Stall error when in automatic mode.
- Not able to drive the AGV when in manual mode.
- CRM contactor does not close properly.

Solution:

Modify the circuit to add a relay with the following specs:

- The relay's coil control power is much lower than the rating of the CRC AUX.
- The relay's contact rating is well above the current required to close the CRM.

This modification will allow the CRC AUX to only control the coil on the new relay, and the new relay's contact will control the power to the CRM coil. This solution ensures sufficient power for the CRM to function properly.

A repair kit (part # 2083998) will be supplied by Daifuku. The kit includes installation instructions, and the new relay with the required wires precut, terminated, and labeled.