Backup batteries in Carrier reefer machinery

August 2009

Our latest newbuilt reefers Carrier series do not have a backup battery and unless used for shipments requiring probes, installation of a backup battery is not required.

<table>
<thead>
<tr>
<th>Container numbers</th>
<th>Unit models</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWCU5282108-5339590</td>
<td>69NT40-561-010</td>
<td>5750</td>
</tr>
<tr>
<td>MNBU0000004-0049998</td>
<td>69NT40-561-010</td>
<td>5000</td>
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</tbody>
</table>

In case the controller of the above units have been installed with a battery (because it was used for shipment requiring probes), leave the battery in the unit.

Alarm may show when:
1) Units do not have a battery and are wrongly configured
2) Units have been installed with a battery due to a shipment requiring batteries and the controller shows a battery alarm

1) Switch off the battery alarm
   Hold the ALT key at the beginning of the battery test in CD19 (press ENTER and ALT together).
   From this point the Alarm 53 will remain inactive until a battery is installed.

2) Take out the battery and switch the battery alarm off.
   Hold the ALT key at the beginning of the battery test in CD19 (press ENTER and ALT together).
   From this point the Alarm 53 will remain inactive until a battery is installed.

Note that the controller will automatically detect a battery when this is installed.

Shipments where back up batteries are required and battery status requires to be checked before GATE-OUT EXP when Shipments require probes:
Cold Treatment
Jordan shipments
Super Freezer
Controlled Atmosphere.
Chilled meat
Installation of a Battery into Carrier reefer machinery

When a unit shipments requires probes the following needs to be taken into account. Once the battery pack is installed check that the wiring from the battery pack is as follows:
Red lead from the battery inserted into KA14
Black lead from the battery inserted into KA13
Red battery charging link lead into KA14/KA11

It is important that the link KA14/KA11 is in place or the battery will not be charged by the controller and this could lead to the sensor data not being recorded during power off cycles and the cold treatment not being completed.

A battery once fitted could still have a low charge. Once the unit is operational the controller will recharge the battery pack. Charging times may vary based on ambient temperature but the following can be used as a guideline.

ML2i controller 24 hours:
ML3 controller 3.5 hours:

If a battery installed in the unit becomes problematic and AL53 becomes active, ensure the unit has been powered on and completed the minimum charging time. If the battery pack will not charge because it is faulty and a battery is not required it can be removed.

The alarm can be cleared by holding the ALT key at the beginning of the battery test. Scroll through to CD19 press ENTER and ALT together. From this point Alarm 53 will remain inactive until another battery is installed.

Note: Carrier rechargeable batteries part number is 30-00407-02SV.