### Field Change Order

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<th>PRODUCT:</th>
<th>PART/ASSEMBLY:</th>
<th>FCO P/N:</th>
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<tr>
<td>NUR Fresco HiQ</td>
<td>GIO Board</td>
<td>09-7005</td>
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**ISSUE DATE:** 2-Sep-03  
**DESCRIPTION OF CHANGE:** Replacing The GIO Board Containing The MICREL U13 Driver Chip  
**APPLICABLE FOR S/N:**  
- Up to:  
  - NUR Fresco HiQ 1800 # 10221  
  - NUR Fresco HiQ 3200 # 14249

**SOFTWARE AFFECTED:**  
- ☐ YES  
- ☑ NO

**IMPLEMENTATION:**  
- ☐ ON REQUEST  
- ☑ IMMEDIATE  
- ☑ NEXT VISIT  
- ☑ ON FAILURE

**PREPARED BY:** Alex Davidson

**TYPE OF CHANGE:**  
- ☑ MANDATORY  
- ☐ CONDITIONAL

**MATERIAL DISPOSITION:**  
- ☐ N/A  
- ☐ USE AS SPARE  
- ☐ DISCARD ALL  
- ☐ DISCARD SELECTIVELY (refer to Mat’l Disposition)  
- ☑ SEND BACK FOR REWORK

**PROJECT MANAGER:**  
- SIGNATURE/DATE

**ENGINEERING MANAGER:**  
- SIGNATURE/DATE

**ICS MANAGER:**  
- SIGNATURE/DATE

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Read this document carefully before implementing the FCO!
1. General

This Field Change Order informs you of a faulty batch of GIO boards, how to recognize this faulty GIO board and instructs you to replace those faulty boards.

2. Description of Problem

A problem with the driver chip (identified at position U13 on the board) was discovered (see Figure 1).

Boards containing the MICREL driver chip (U13) fail shortly after operation.

2.1 Error Description

All LEDs on the GIO board light up and the driver continues to output signals to the heating system until it is stopped by the watchdog board system.

3. Solution

Replace all GIO boards, containing the MICREL U13 driver chip (see Figure 2), with GIO boards containing the ALLEGRO driver chip Manufacturer P/N: UCN5801A (see Figure 3). The GIO boards at the current installed printers must be inspected and replaced accordingly - on next visit or on break.

All GIO boards at your local spare parts stock must be inspected and replaced accordingly if needed.

Figure 1: GIO Board- Drive Chip Circled
Figure 2: GIO Board with Faulty Driver U13 Chip (rotated)

Figure 3: GIO Board with Good Driver U13 Chip (rotated)