



# Fresenius Medical Care

## SERVICE BULLETIN

Equipment: 2008H

Bulletin: 99-FRH-002

Subject: Repair Options for Functional Board (P/N 190063)

Written By	Reviewed By	Approved By	Effective Date
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The functional board (P/N 190063) is no longer available. Current production functional board is part number 190167. As a result of the functional board upgrade, the software must be upgraded to functional software version 8.35 or greater (P/N 190072) and the actuator board software version 2.66 (P/N 190034). This software does not change the day-to-day operation of the machine.

There are two options available when ordering a functional board (P/N 190063):

- Option 1 **Substitution of the new functional board and upgrade of software.**  
A new functional board (P/N 190167) is shipped to you as a replacement for the functional board (P/N 190063) along with functional board software version 8.35 or later (P/N 190072) and actuator software version 2.66 (P/N 190034). In this case, the 2008H Hemodialysis machine must be calibrated (See technical notes below). For pricing, contact the Customer Service Spare Parts at 1-800-227-2572.
- Option 2 **Send the function board (P/N 190063) to us as a Return for Repair (RFR).**  
After obtaining an RFR number from the Technical Service Department, the board is sent to us, repaired and then sent back to you. For pricing, contact the Technical Service Department at 1-800-227-2572.

### **Technical Notes**

- From a technical stand point, additions to the troubleshooting Debug screens will be evident and upgrading software will require calibration of the 2008H Hemodialysis System (refer to Calibration Procedures Manual P/N 500604). Several Debug screens will display inclusions for the Online Clearance option.
- Since the battery RAM is different on the new functional board (P/N 190167), the battery RAM from the functional board (P/N 190063) can **NOT** be swapped to the new board. Therefore, **ALL** calibrations must be performed prior to releasing the machine for use.

The following changes should be noted while calibrating the machine with upgraded software:

- During the calibration of conductivity, the technician is prompted for the specific concentrate used on the machine. The rest of the conductivity calibration is the performed the same.
- When setting options in Service Mode, you will find a CLEARANCE option. Do NOT turn this option to YES unless your machine has the Online Clearance kit (P/N 190142) installed.