



## Fresenius Medical Care

# Fresenius Medical Care North America Service Bulletin

Equipment: 2008K Hemodialysis Machines  
Bulletin: 07-FRK-001 Rev. B  
Subject: New Circuit Boards (Update)

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### 1.0 PURPOSE

To inform all Field Service and Technical Support personnel of the release of a new Actuator/Test Combo board (P/N 190234-XXX<sup>1</sup>) and a new Motherboard (P/N 190232) for the 2008K Hemodialysis machine.

\* The -XXX indicates the software version programmed on the part number 190234 Actuator/Test Combo board.  
For example: 190234-101 is an Actuator/Test Combo board with software version 1.01.

### 2.0 SCOPE

The Actuator/Test Combo board replaces the need to have a Test board in the card cage and makes room for further expansion options. The 190232 Motherboard adds the capability of allowing the Actuator/Test Combo board to replace the Actuator board and to eliminate the need for a Test board.

### 3.0 DETAILS

The new Actuator/Test Combo board replaces the separate Actuator and Test boards. It uses the same motherboard position as the original Actuator board. In order to use the Actuator/Test Combo board the following apply:

- The Functional software must be V3.29 or greater.
- To eliminate the need for a Test board, the Motherboard must be part number 190232. If you don't have this Motherboard you can still use the Actuator/Test Combo board as an Actuator board but you must have a Test board installed and have Functional software V3.29 or greater.

The Actuator/Test Combo board does not change any machine functions. The calibration processes remain the same, as well as all other Service Mode configurations.

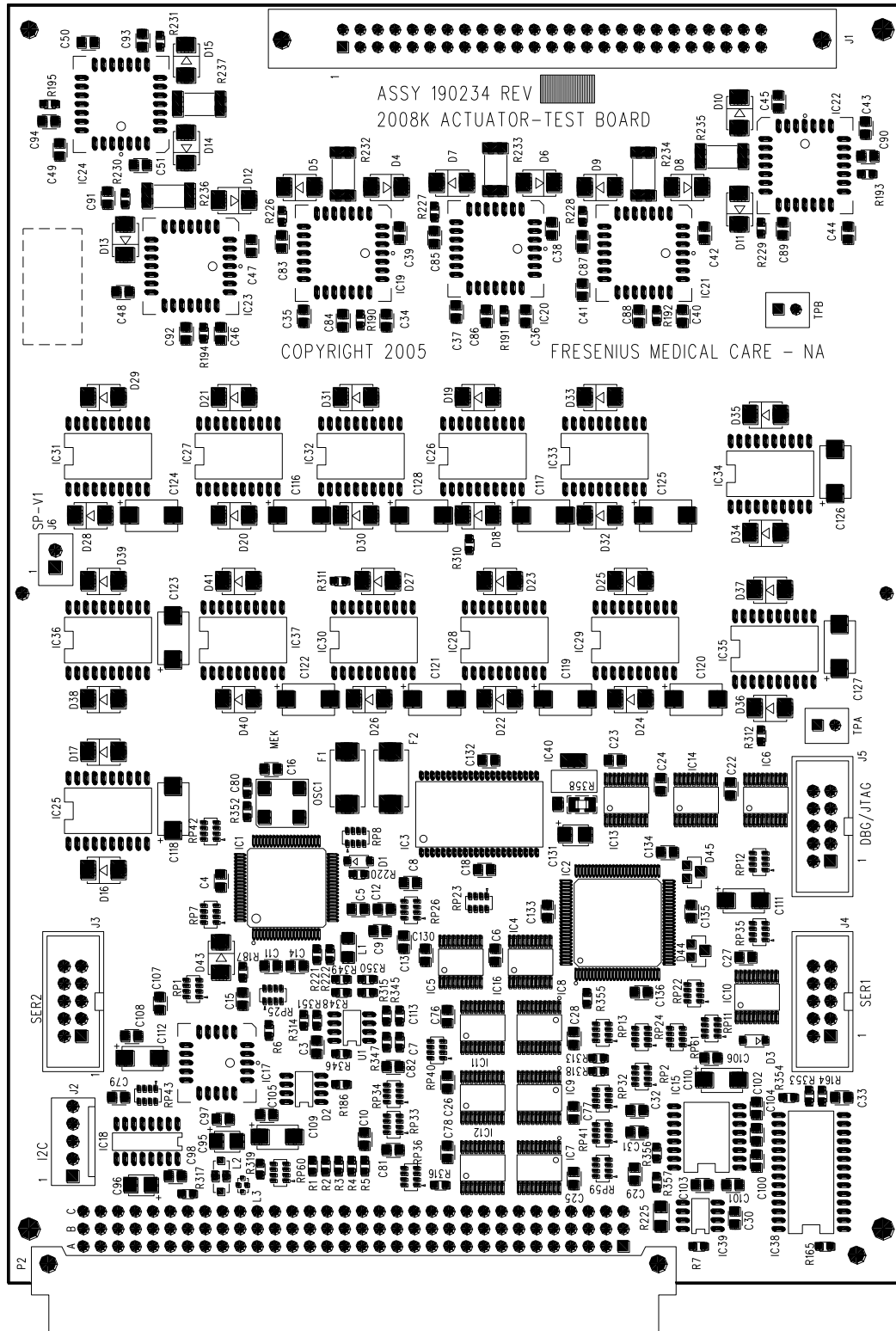
The software on the Actuator/Test Combo board is no longer stored on an EPROM and is updated using a method similar to the Functional board.

It is recommended to conduct the Voltage Detection Calibration whenever an Actuator or Actuator/Test Combo board is replaced. Refer to the 2008K Calibration Procedures (P/N 507296).

Figure 1 and Figure 2 on the following pages are illustrations of the Actuator/Test Combo board and the 190232 Motherboard respectively.

If there are any questions regarding this bulletin, contact Fresenius Technical Support at 800-227-2572.

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**Figure 1 – Actuator/Test Combo Board**  
(P/N 190234-XXX\*)

\* The –XXX indicates the software version programmed on the part number 190234 Actuator/Test Combo board. For example: 190234-101 is an Actuator/Test Combo board with software version 1.01.

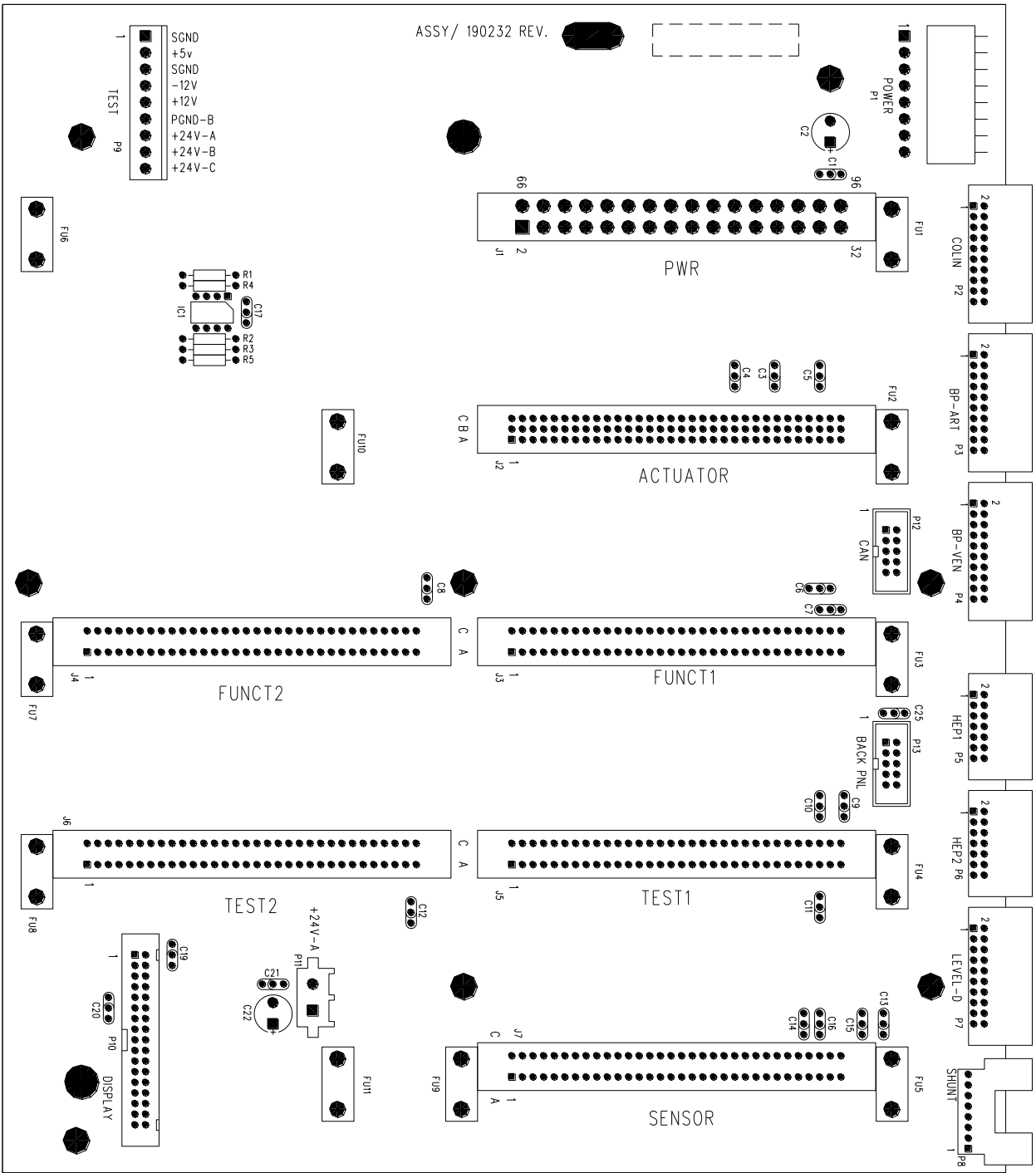


Figure 2 – 190232 Motherboard