

## Application Bulletin

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### Panel Instrument Motherboard Replacement Instructions

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Follow the steps below for proper replacement of a motherboard in an INCON panel instrument:

1. Turn off power to the instrument.
2. Remove the instrument from its case by squeezing the locking tabs on the top and bottom of the display front panel and pulling the instrument out of its case. (This can be difficult since the instrument fits tightly into the case. You may need to pry against the power transformer's metal core, through the slot in the side of the case, with a small pocket screwdriver (while squeezing the lock tabs) to force the instrument out of the case.)
3. Remove the two screws from the top PC board.
4. Separate the middle PC board from the motherboard by slowly and carefully pulling them apart. Take your time! Be very careful not to bend any of the pins of the connector joining the boards together. Do not separate the top PC board from the middle board.
5. Pull the clear plastic ribbon cable, coming from the front panel, out of the black connector on the motherboard.
6. Remove the two screws from the bottom of the motherboard.
7. Separate the motherboard from the front panel by pulling apart the connector to the display board.
8. Join the new motherboard to the front panel by plugging in the display board connector.
9. Replace the two screws in the bottom of the motherboard.
10. Insert the clear plastic ribbon cable, coming from the front panel, into the black connector on the motherboard. You may need to use needle nose pliers to do this.
11. Join the middle and top PC boards to the motherboard by plugging in the connectors between the two boards. Be extra careful not to bend any of the pins of the connectors!
12. Replace the two screws in the top PC board.
13. Slide the instrument into the case until it "snaps" into place.
14. Turn on the power to the instrument.
15. Check the accuracy of the analog output calibration (if required), by performing the "Field Calibration" procedure found in the instrument's Installation Manual.