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Technical Document

Removing the Entire Electronics Bay of the 5972 and 5971

There are basically 5 boards in the HP 5972 GC/MSD:

I/O board,
Main Board,
DC Power Supply Board,
Power Distribution Board, and the
Top Board

Unfortunately, 4 of the boards listed (Top Board excluded) may be part of a communication problem. The good news is that all four of these boards are bolted to the same piece of sheet metal and thereby create an "Electronics Bay" which is easily removed and sent to us for evaluation.

Here's how to remove the Electronics Bay:

1. Cool, vent and power down properly as instructed in the owner's manual
2. Un-plug the power cord from the wall
3. Remove the top cover
4. Remove the side cover(s)
5. Identify the top board and remove the three connectors to the main board

Signal Cable,
Filament power wire (white wire pair),
Comm Cable (50 wire ribbon)

6. Identify the three hex shaped stainless steel stand-offs that are located about mid height in a line. Two of these stand-offs actually pass through big holes in the I/O board and Main board. The third stand-off is located back by where the power cord passes through the chassis
7. Remove these three stand-offs and the entire electronics bay will lift out of the MSD chassis – BUT only after removing a couple of more connectors on the back side (diff pump & fan cable).

Carefully wrap the electronics bay in bubble wrap and pack in a large box and send it to us. We'll check out each board individually and then check out all the boards as a system. We'll contact you with results and prices before we proceed. Our bench rate to check out the electronics is only \$150 per hour plus return s/h. **DO NOT SEND US THE TOP BOARD,** unless you just want it checked out with the rest of the boards.