

# Connection differences for Mad City Piezo to Adept Piezo upgrades

**When upgrading from a Mad City Piezo control box to an ASI Adept Piezo control box there are several differences to note regarding connections.**

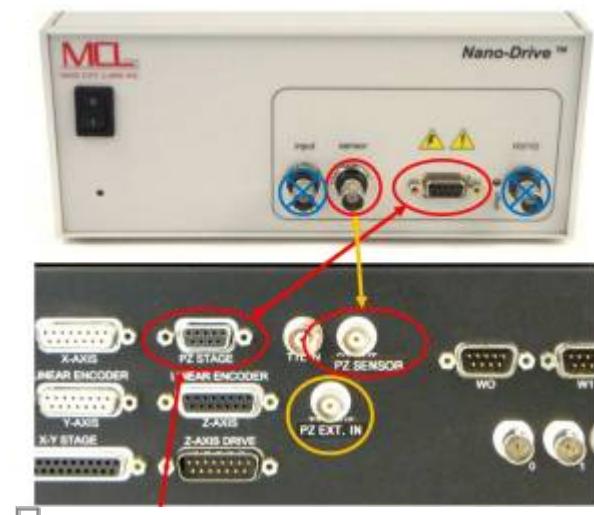
The DB-9 Male cable from the Piezo Z part of the stage connected to the MCL Nano-Drive at the DB-9 Female will now connect to the ASI Adept Piezo control box at the DB-9 Female labeled "PZ STAGE".

The "Input" on the Mad City Piezo control box is now internalized and is not on the ASI Adept Piezo control box.

The "Sensor" on the Mad City Piezo control box is now connected to the "PZ SENSOR" on the ASI Adept Piezo control box.

The "HV/10", (or High Voltage divided by ten Sensor), on the Mad City Piezo control box is now internalized on the ASI Adept Piezo control box.

And lastly the ASI Adept Piezo control box has an additional "PZ EXT.IN" input to accept a 0-10 VDC control voltage to move the Piezo that the Mad City Piezo control box does not have, see pictures 1 and 2.



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If by accident the PZ STAGE DB-9F header has styrene plugs in the bottom outer holes, (6 & 9), then the header was designed for Adept Piezo stages and will have to be changed to a Mad City Piezo header. Contact ASI for more information.

[piezo](#), [tech note](#), [ms2000](#)

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