

Change Summary:

1. A wire was added from P1-9A to U5-4 to implement the blanking feature.
2. The 1/2 PS Offset circuit formed by U13C is not used.
3. There is a known gain problem with U2 being in an inverting configuration.
4. The mixer output to DAQ is now wired to P2-7A and P2-7C, hot/gnd respectively, instead of J10
5. The actuator drive to DAQ is now wired to P28A and P2-8C, hot/gnd respectively, instead of J10

Changes accomodating 9 KHz resonance

Component	Was	Is	Implements
C11	0.1UF	1UF	2 Hz pole
C12	6.8NF	47 NF	425 Hz zero
C25	0.01UF	0.1UF	10 Hz pole
C26	51PF	3.2NF	8.9 KHz Notch

Red markings indicate changes to the North path PMC that were found on Feb 02, 2019 when checking schematic against values on the board.

1. INOFFSET2 impedance was halved at some point, this doubles the input offset gain. C9 capacitance has been doubled to keep LP filter the same (6.36 Hz).
2. Output pole is omitted on U9 and is implemented as a positive pole with 1kΩ in series on the output and capacitor to ground the cable + PZT.
3. The 70 kHz notch is omitted.
4. R9 was set to 10 Ω for some reason. Design says 1kΩ but there is an above mentioned instability issue they may have been trying to quell. I changed R9 to 100Ω to match the other PMC board.

-A.Wade Feb 02, 2019

