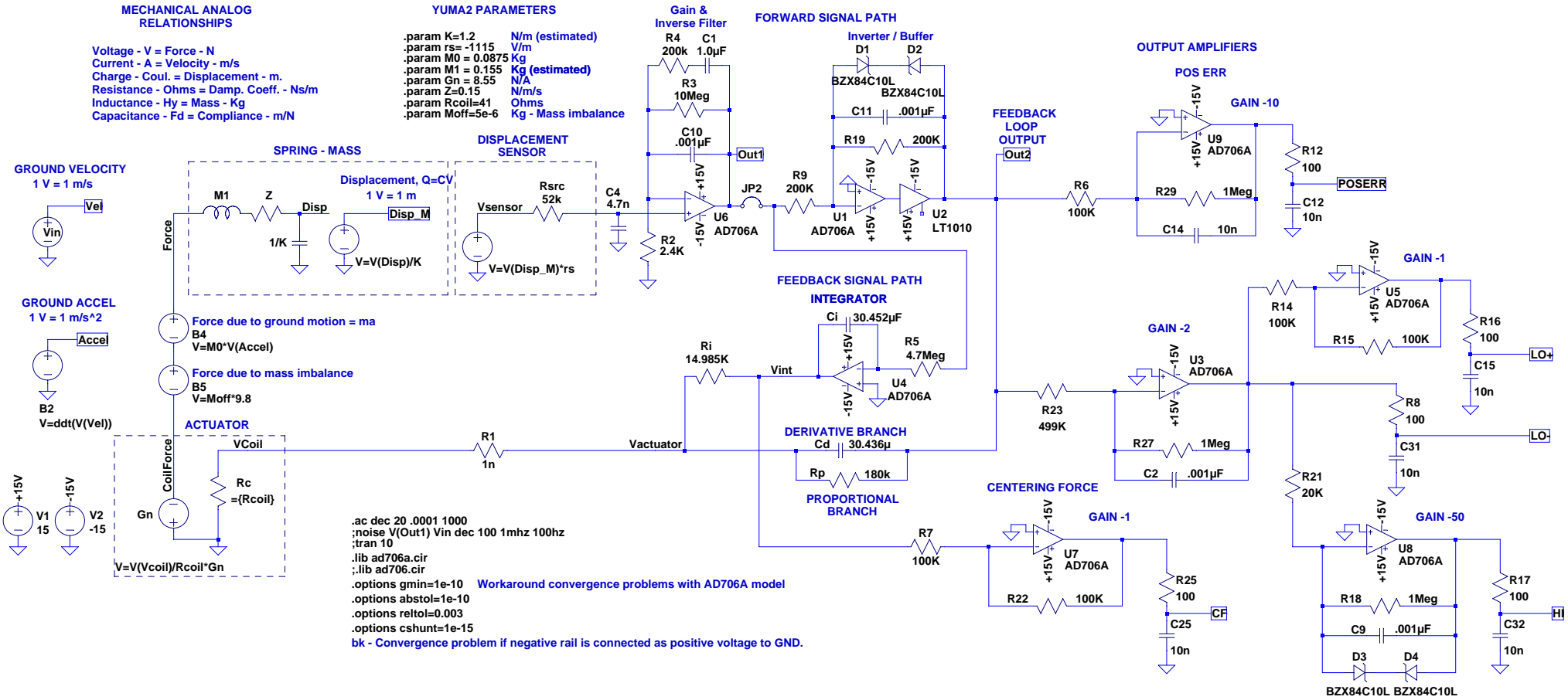


MECHANICAL ANALOG RELATIONSHIPS

Voltage - V = Force - N
 Current - A = Velocity - m/s
 Charge - Coul. = Displacement - m.
 Resistance - Ohms = Damp. Coeff. - Ns/m
 Inductance - Hy = Mass - Kg
 Capacitance - Fd = Compliance - m/N

YUMA2 PARAMETERS

.param K=1.2 N/m (estimated)
 .param rs=-1115 V/m
 .param M0 = 0.0875 Kg
 .param M1 = 0.155 Kg (estimated)
 .param Gn = 8.55 N/A
 .param Z=0.15 N/m/s
 .param Rcoil=41 Ohms
 .param Moff=5e-6 Kg - Mass imbalance



```
.ac dec 20 .0001 1000
;noise V(Out1) Vin dec 100 1mhz 100hz
;tran 10
.lib ad706a.cir
;.lib ad706.cir
.options gmin=1e-10 Workaround convergence problems with AD706A model
.options abstol=1e-10
.options reltol=0.003
.options cshunt=1e-15
bk - Convergence problem if negative rail is connected as positive voltage to GND.
```