

Tower	note	High Current - Low Noise	Smooth Transition (2 DAC per Coil)	Series resistor [Ω] low noise	Sensing resistor [Ω] low noise	Actuation [mA/V] high current	Actuation [mA/V] low noise	Sensing [V/A] high current	Sensing [V/A] low noise	Filtering
	status @ 26/04/2007									

NE										
up – down		YES	Yes	6k	3k	194.7	0.323	10	6k	Actuation: pole@3Hz, zero@28Hz - Sensing: zero@3.4Hz, pole@97Hz
right – left		YES	NO	6k	3k	194.7	0.323	10	6k	Actuation: pole@3Hz, zero@28Hz - Sensing: zero@3.4Hz, pole@97Hz
LATERAL right	still in Voltage mode (G=1.947) + series resistor (1k ohm)			1k				2		
LATERAL left										

WE										
up – down		YES	Yes	6k	3k	194.7	0.323	10	6k	Actuation: pole@3Hz, zero@28Hz - Sensing: zero@3.4Hz, pole@97Hz
right – left		YES	NO	6k	3k	194.7	0.323	10	6k	Actuation: pole@3Hz, zero@28Hz - Sensing: zero@3.4Hz, pole@97Hz
LATERAL right	still in Voltage mode (G=1.947) + series resistor (1k ohm)			1k				2		
LATERAL left										

BS										
up left – up right		YES	Yes	1k	500	194.7	1.926	10	1k	Actuation: pole@3Hz and 20Hz, zero@28Hz and 100Hz - Sensing: zero@3.4Hz, pole@97Hz
down left – down right		YES	Yes	1k	500	194.7	1.926	10	1k	Actuation: pole@3Hz and 20Hz, zero@28Hz and 100Hz - Sensing: zero@3.4Hz, pole@97Hz

NI										
up – down		YES	NO	6k	3k	194.7	0.323	10	6k	Actuation: pole@3Hz, zero@28Hz - Sensing: zero@3.4Hz, pole@97Hz
right – left		YES	NO	6k	3k	194.7	0.323	10	6k	Actuation: pole@3Hz, zero@28Hz - Sensing: zero@3.4Hz, pole@97Hz

WI										
up – down		YES	NO	6k	3k	194.7	0.323	10	6k	Actuation: pole@3Hz, zero@28Hz - Sensing: zero@3.4Hz, pole@97Hz
right – left		YES	NO	6k	3k	194.7	0.323	10	6k	Actuation: pole@3Hz, zero@28Hz - Sensing: zero@3.4Hz, pole@97Hz

MC	still in Voltage mode (G=1.947) + series resistor (47 ohm) (150 ohm for Lateral Coils)	NO				~35		2		
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IB	still in Voltage mode (G=1.718) + switched series resistor (67 ohm)	YES	NO	67		~200	~25	ONLY VOLTAGE SENSING (gain = 200)	ONLY VOLTAGE SENSING (gain = 200)	Actuation: pole@3Hz, zero@28Hz - Sensing: zero@0Hz, pole@1.6Hz
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PR	still in Voltage mode (G=1.947) + series resistor (91 ohm)	NO				~20		2		
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OB	still in Voltage mode (G=1.947) + series resistor (30 ohm)	NO				~20		2		Actuation: pole@3Hz, zero@28Hz
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