

# HLTS, HSTS, OMCS M1 Loop Sign Table

OSEM Basis

EULER Basis

OSEM Basis

Real Motion	OSEM Sensing	Elec. Gain	OSEMINF Gain	OSEM2EUL Gain	DAMP Gain	EUL2OSEM Gain	COILOUTF Gain	Elec. Gain	Current Sign	Magnet Polarity	OSEM Force	Real Motion
	+ LF	+	+	+		+	+	+	-	N	Pull	
+ L					-							- L
	+ RT	+	+	+		+	-	+	+	S	Pull	
+ T	- SD	+	+	-	-	-	-	+	-	S	Push	- T
	- T1	+	+	-		-	-	+	-	S	Push	
+ V	- T2	+	+	-	-	-	-	+	-	S	Push	- V
	- T3	+	+	-		-	+	+	+	N	Push	
	- T1	+	+	-		-	-	+	-	S	Push	
+ R	+ T2	+	+	+	-	+	-		+	S	Pull	- R
	+ T3	+	+	+		+	+	+	-	N	Pull	
	+ T2	+	+	+		+	-	+	+	S	Pull	
+ P					-							- P
	- T3	+	+	-		-	+	+	+	N	Push	
	-	+	+	-		-	+	+	+	N	Push	
+ Y					-							- Y
	+	+	+	+		+	-	+	+	S	Pull	

Sensing Chain

Actuation Chain