

Currently Functional

Ideal (as per T1200015)

H2 SUS ITMY M0

EUL20SEM Matrix

	L	T	V	R	P	Y	COILOUTF Gain
F1					-		+
F2	-				+	+	+
F3	-				+	-	-
LF			-	-			-
RT			-	+			+
SD		-					-



Conclusion: F2 and F3 Magnets are flipped on installed magnets (though compensated for with COILOUTF gains)

H2 SUS ITMY R0

EUL20SEM Matrix

	L	T	V	R	P	Y	COILOUTF Gain
F1					+		+
F2	+				-	-	+
F3	+				-	+	-
LF			-	-			+
RT			-	+			-
SD		+					-



Conclusion: all clear!

X1 SUS QUAD03 M0

EUL20SEM Matrix

	L	T	V	R	P	Y	COILOUTF Gain
F1					-		-
F2	-				+	+	+
F3	-				+	-	-
LF			-	-			+
RT			-	+			-
SD		-					+



Conclusion: all clear!

(accounting for X1 Test Stand Elec. Gain of -1, properly compensated in the COILOUTF gain)

X1 SUS QUAD03 R0

EUL20SEM Matrix

	L	T	V	R	P	Y	COILOUTF Gain
F1					+		-
F2	+				-	-	-
F3	+				-	+	+
LF			-	-			-
RT			-	+			+
SD		+					+



Conclusion: all clear!

(accounting for X1 QUAD Test Stand Elec. Gain of -1, properly compensated in the COILOUTF gain)

H2 SUS FMY M1

EUL20SEM Matrix

	L	T	V	R	P	Y	COILOUTF Gain
F1					-		-
F2	-				+	+	-
F3	-				+	-	+
LF			-	-			-
RT			-	+			+
SD		-					+



Conclusions: Transformation Matrices incorrect (means using a -L, +T, +V, +R, -P, -Y coordinate system) AND overall minus sign on magnets (N mistaken for S, compensated for in COILOUTF gain)

X2 SUS BSFM06 M1

EUL20SEM Matrix

	L	T	V	R	P	Y	COILOUTF Gain
F1					-		-
F2	-				+	+	+
F3	-				+	-	-
LF			-	-			-
RT			-	+			+
SD		-					+



Conclusions: Transformation Matrices incorrect AND F2 and F3 Magnets are flipped on installed magnets

(accounting for X2 QUAD Test Stand Elec. Gain of -1, properly compensated in the COILOUTF gain)

X2 SUS PR3 M1

EUL20SEM Matrix

	L	T	V	R	P	Y	COILOUTF Gain
T1			-	-			+
T2			-	+	+		+
T3			-	+	-		-
LF	+					-	-
RT	+					+	+
SD		-					+



Conclusion: Over all Minus Sign on installed Magnets (N mistaken for S)

	L	T	V	R	P	Y	COILOUTF Gain
F1					-		+
F2	-				+	+	-
F3	-				+	-	+
LF			-	-			-
RT			-	+			+
SD		-					-

	L	T	V	R	P	Y	COILOUTF Gain
F1					+		+
F2	+				-	-	+
F3	+				-	+	-
LF			-	-			+
RT			-	+			-
SD		+					-

	L	T	V	R	P	Y	COILOUTF Gain
F1					-		+
F2	-				+	+	-
F3	-				+	-	+
LF			-	-			-
RT			-	+			+
SD		-					-

	L	T	V	R	P	Y	COILOUTF Gain
F1					+		+
F2	+				-	-	+
F3	+				-	+	-
LF			-	-			+
RT			-	+			-
SD		+					-

	L	T	V	R	P	Y	COILOUTF Gain
F1					+		+
F2	+				-	-	+
F3	+				-	+	-
LF			-	-			+
RT			-	+			-
SD		-					-

	L	T	V	R	P	Y	COILOUTF Gain
F1					+		+
F2	+				-	-	+
F3	+				-	+	-
LF			-	-			+
RT			-	+			-
SD		-					-

	L	T	V	R	P	Y	COILOUTF Gain
T1			-	-			-
T2			-	+	+		-
T3			-	+	-		+
LF	+					-	+
RT	+					+	-
SD		-					-