MQX2 Instrumentation Line Continuity Test Report

Meyer Tool & Mfg., Inc.

4601 W. Southwest Hwy., Oak Lawn, Illinois 60453
708 / 425-9080
Fax 708 / 425-2612

CONTINUITY TESTING
MTM-MP-1020

Box " E " LQX Line S/N MQX2 - 03
(Main Magnet Voltage Taps)

Function Designator, Tag Or Description		Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE	CERAMSEAL PLUG & WIRE		FINAL AFTER HIPOTING	D.K. 1/26/05
M2 #1	A-1 EE1111	.6 Ω		
#2	A-2 EE1121	.6 Ω		
#3	A-3 EE1211	.6 Ω		
#4	A-4 EE1221	.6 Ω		
#5	A-5 EE1311	.6 Ω		
M3 #1	A-6 EE1222	.6 Ω		
#2	B-1 EE1212	.6 Ω		
#3	B-2 EE1122	.6 Ω		
#4	B-3 EE1112	.6 Ω		
#5	B-4 EE1321	.6 Ω		
M4 #1	B-5 EE1312	.6 Ω		
#2	B-6 EE1322	.6 Ω		
#3	C-1 EE1612	.6 Ω		
#4	C-2 EE1622	.6 Ω		
#5	C-3 EE1512	.6 Ω		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER
S/N # 47900002

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CONTINUITY TESTING
MTM-MP-1020

Box " E " LQX Line S/N MQX2 - 03
(Main Magnet Voltage Taps)

Function Designator, Tag Or Description		Resistance ohms	Assembly Step	By Date	
HYPERTRONICS MODULE	CERAMSEAL PLUG & WIRE		FINAL AFTER HIPOTING	A.K.	1/26/05
M5 #1	C-4 EE1123	.6 Ω			
#2	C-5 EE1113	.6 Ω			
#3	C-6 EE1422	.6 Ω			
#4	D-1 EE1412	.6 Ω			
#5	D-2 EE1522	.6 Ω			
M6 #1	D-3 EE1213	.6 Ω			
#2	D-4 EE1223	.6 Ω			
#3	D-5 EE1313	.6 Ω			
#4	D-6 EE1323	.6 Ω			
M8 #1	E-1 EE8121	.6 Ω			
#2	E-2 EE8111	.6 Ω			
#3	E-3 EE8122	.6 Ω			
#4	E-4 EE8112	.6 Ω			

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CONTINUITY TESTING
MTM-MP-1020

Box " E " LQX Line S/N MQX2 - 03
(Corrector Magnet Voltage Taps)

Function Designator, Tag Or Description		Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE	CERAMSEAL PLUG & WIRE			
M9 #1	E-5 EE8123	.6Ω		
#2	E-6 EE8113	.6 Ω		
#3	F-1 EE8223	.6 Ω		
#4	F-2 EE8323	.6 Ω		
M10 #1	F-3 EE8313	.6 Ω		
#2	F-4 EE8423	.6 Ω		
#3	F-5 EE8413	.6 Ω		
#4	F-6 EE8613	.6 Ω		

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CONTINUITY TESTING
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Box "E" LQX Line S/N MQX2 - 03
(Quench Protection Heaters)

Function Designator, Tag Or Description		Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE	CERAMSEAL PLUG & WIRE		FINAL AFTER HIPOTTING	AC 1/26/05
M17 #1	G-1 YT1111+	.4Ω		
#3	G-2 YT1111-	.5Ω		
#5	G-3 YT1121+	.5Ω		
M18 #2	G-5 YT1112+	.4Ω		
#4	G-4 YT1121-	.4Ω		
M19 #1	G-6 YT1112-	.4Ω		
#3	H-1 YT1122+	.4Ω		
#5	H-2 YT1122-	.4Ω		
M20 #2	H-4 YT1132-	.4Ω		
#4	H-3 YT1132+	.5Ω		

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CONTINUITY TESTING
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Box "E" LQX Line S/N MQX2 - 03
(Quench Protection Heaters, Warm-up Heaters)

Function Designator, Tag Or Description		Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE	CERAMSEAL PLUG & WIRE			
M21 #1	H-5 YT1142+	.4 Ω	FINAL AFTER HIPOTTING	A.M. 1/26/05
#3	H-6 YT1142-	.4 Ω		
#5	I-1 YT1113+	.4 Ω		
M22 #2	I-3 YT1123+	.4 Ω		
#4	I-2 YT1113-	.4 Ω		
M23 #1	I-4 YT1123-	.4 Ω		
WARM-UP	**HEATERS**			
M12 #1	I-5 EH8311+	.4 Ω		
#2	I-6 EH8311-	.4 Ω		
#3	J-1 EH8321+	.4 Ω		
#4	J-2 EH8321-	.4 Ω		

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CONTINUITY TESTING
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Box " E " LQX Line S/N MQX2 - 03
(Warm-up Heaters)

Function Designator, Tag Or Description		Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE	WIRE #		AFTER HiPOT TESTING	D.K 1/26/05
M13 #1	J-3 EH8312+	.4Ω		
#2	J-4 EH8312-	.4Ω		
#3	J-5 EH8322+	.4Ω		
#4	J-6 EH8322-	.4Ω		
M14 #1	K-1 EH8332+	.4Ω		
#2	K-2 EH8332-	.5Ω		
#3	K-3 EH8342+	.4Ω		
#4	K-4 EH8342-	.5Ω		
M15 #1	K-5 EH8313+	.5Ω		
#2	K-6 EH8313-	.5Ω		
#3	L-1 EH8323+	.5Ω		
#4	L-2 EH8323-	.5Ω		

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CONTINUITY TESTING
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Box "E" LQX LINE S/N MQX2
COLD MASS THERMOMETERS

Function Designator, Tag or Description		Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE	(C 40) 32 PIN RECEPTACLE		AFTER HIPOTTING	D.M 12/6/05
M25 #1	# 3	.9 Ω		
#2	# 4	.9 Ω		
#3	# 1	.9 Ω		
#4	# 2	1.0 Ω		
#5	# 7	.9 Ω		
#6	# 8	1.0 Ω		
#7	# 9	1.0 Ω		
#8	# 12	1.0 Ω		
#9	# 11	1.0 Ω		
#10	# 6	.9 Ω		
#11	# 5	1.0 Ω		
#12	# 10	.8 Ω		
#13	# 15	.9 Ω		
#14	# 16	.8 Ω		
#15	# 13	.9 Ω		
#16	# 14	.9 Ω		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 47900002

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CONTINUITY TESTING
Box "E" MTM-MP-1020
LQX LINE S/N MQX2-_____
COLD MASS THERMOMETERS

Function Designator, Tag or Description		Resistance ohms	Assembly Step	By Date
HYPERTRONIKS MODULE	(C40) 32 PIN RECEPTACLE		FINAL AFTER HIPOTTING	DK 1/26/05
M26 #1	#19	.8 Ω		
#2	#20	.8 Ω		
#3	#17	.8 Ω		
#4	#18	.8 Ω		
#5	#23	.8 Ω		
#6	#24	.8 Ω		
#7	#25	1.0 Ω		
#8	#28	.8 Ω		
#9	#27	.8 Ω		
#10	#22	.8 Ω		
#11	#21	.9 Ω		
#12	#26	1.0 Ω		
#13	#31	.8 Ω		
#14	#32	.9 Ω		
#15	#29	1.0 Ω		
#16	#30	.9 Ω		

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PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	BEFORE WELDING Assembly Step	By Date
HYPERTRONICS MODULE		WIRES SOLDERED TO HEILIND CONNECTORS	1-18-05 Cindy
M2 -1 TO EE1111 A-1	.5		
-2 TO EE1121 A-2	.6		
-3 TO EE1211 A-3	.6		
-4 TO EE1221 A-4	.6		
-5 TO EE1311 A-5	.6		
M3 -1 TO EE1222 A-6	.5		
-2 TO EE1212 B-1	.6		
-3 TO EE1122 B-2	.6		
-4 TO EE1112 B-3	.6		
-5 TO EE1321 B-4	.6		
M4 -1 TO EE1312 B-5	.6		
-2 TO EE1322 B-6	.6		
-3 TO EE1612 C-1	.5		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 47900002

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CONTINUITY TESTING
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PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	BEFORE WELDING Assembly Step	By Date
HYPERTRONICS MODULE		WIRES SOLDERED TO HEILING CONNECTORS	1-18-05 cindy
(CONT.) M4 -4 TO EE1622 C-2	.5		
-5 TO EE1512 C-3	.5		
M5 -1 TO EE1123 C-4	.5		
-2 TO EE1113 C-5	.5		
-3 TO EE1422 C-6	.6		
-4 TO EE1412 D-1	.5		
-5 TO EE1522 D-2	.5		
M6 -1 TO EE1213 D-3	.5		
-2 TO EE1223 D-4	.5		
-3 TO EE1313 D-5	.5		
-4 TO EE1323 D-6	.5		
M7 N/A			

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PORCUPINE "E"

(CONT.)

Function Designator, Tag or Description	Resistance ohms	BEFORE WELDING Assembly Step	By Date
HYPERTRONICS MODULE		WIRES SOLDERED TO HELLIND CONNECTORS	1-18-05 CINDY
M8 -1 TO EE8121 E-1	.6		
-2 TO EE8111 E-2	.5		
-3 TO EE8122 E-3	.5		
-4 TO EE8112 E-4	.5		
M9 -1 TO EE8123 E-5	.5		
-2 TO EE8113 E-6	.6		
-3 TO EE8223 F-1	.7		
-4 TO EE8323 F-2	.5		
M10 -1 TO EE8313 F-3	.5		
-2 TO EE8423 F-4	.5		
-3 TO EE8413 F-5	.5		
-4 TO EE8613 F-6	.5		

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CONTINUITY TESTING
MTM-MP-1020

PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	BEFORE WELDING Assembly Step	By Date
HYPERTRONICS MODULE		WIRES SOLDERED TO HELLING CONNECTORS	1-18-05 [illegible]
(CONT.) M12 -1 TO +EH8311 (I-5)	.3		
-2 TO -EH8311 (J-6)	.3		
-3 TO +EH8321 (J-1)	.3		
-4 TO -EH8321 (J-2)	.3		
M13 -1 TO +EH8312 (J-3)	.3		
-2 TO -EH8312 (J-4)	.3		
-3 TO +EH8322 (J-5)	.3		
-4 TO -EH8322 (J-6)	.3		
M14 -1 TO +EH8332 (K-1)	.3		
-2 TO -EH8332 (K-2)	.3		
-3 TO +EH8342 (K-3)	.3		
-4 TO -EH8342 (K-4)	.3		

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CONTINUITY TESTING
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PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step (BEFORE WELDING)	By Date
HYPERTRONICS MODULE		WIRES SOLDERED TO HELLING CONNECTORS	1-18-05 CMDY
(CONT) M15 -1 TO +EH8313 K-5	.3		
-2 TO -EH8313 K-6	.3		
-3 TO +EH8323 L-1	.3		
-4 TO -EH8323 L-2	.3		
M17 -1 TO +YT1111 G-1	.3		
-3 TO -YT1111 G-2	.3		
-5 TO +YT1121 G-3	.3		
M18 -2 TO +YT1112 G-5	.3		
-4 TO -YT1121 G-4	.3		
M19 -1 TO -YT1112 G-6	.3		
-3 TO +YT1122 H-1	.3		
-5 TO -YT1122 H-2	.3		

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PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	BEFORE WELDING Assembly Step	By Date
(CONT.) HYPERTRONICS MODULE		WIRES SOLDERED TO FEILIND CONNECTORS	1-18-05 CINDY
M20 -2 TO -YT1132 H-4	.3		
-4 TO +YT1132 H-3	.3		
M21 -1 TO +YT1142 H-5	.3		
-3 TO -YT1142 H-6	.3		
-5 TO +YT1113 I-1	.3		
M22 -2 TO +YT1123 I-3	.3		
-4 TO -YT1113 I-2	.3		
M23 -1 TO -YT1123 I-4	.3		

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PORCUPINE "E" DFBX E
HYPERTRONICS MODULE

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M25

Function Designator, Tag or Description	Resistance ohms	Assembly Step (BEFORE WELDING)	By Date	
-1 TO I+ TT8311	1.1	WIRES TRIMMED & TINNED	1-17-95	Y
-2 TO I-, TT8311	1.1			G
-3 TO V+ TT8311	1.1			B
-4 TO V- TT8311	1.1			R
-5 TO I+ TT8321	1.0			Y
-6 TO I- TT8321	1.1			G
-7 TO V+ TT8312	1.1			B
-8 TO I- TT8312	1.0			G
-9 TO I+ TT8312	1.0			Y
-10 TO V- TT8321	1.0			R
-11 TO V+ TT8321	1.0			B
-12 TO V- TT8312	1.1			R
-13 TO I+ TT8322	1.1			Y
-14 TO I- TT8322	1.1			G
-15 TO V+ TT8322	1.1			B
-16 TO V- TT8322	1.1			R

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PORCUPINE E
HYPERTRONICS
MODULE

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Function Designator, Tag or Description	Resistance ohms	BEFORE WELDING Assembly Step	By Date	
-1 TO I+ π8332	1.0	WIRES TRIMMED & TINNED	1-18-05 CINDY	Y
-2 TO I- π8332	1.0			G
-3 TO V+ π8332	1.1			B
-4 TO V- π8332	1.1			R
-5 TO I+ π8342	1.0			Y
-6 TO I- π8342	1.0			G
-7 TO V+ π8313	1.0			B
-8 TO I- π8313	1.0			G
-9 TO I+ π8313	1.0			Y
-10 TO V- π8342	1.0			R
-11 TO V+ π8342	1.1			B
-12 TO V- π8313	1.0			R
-13 TO I+ π8323	1.0			Y
-14 TO I- π8323	1.0			G
-15 TO V+ π8323	1.1			B
-16 TO V- π8323	1.0			R

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PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE		AFTER SOLDER CLEANING	MJ 1/18/95
M2 -1 TO EE1111 A-1	.4		
-2 TO EE1121 A-2	.5		
-3 TO EE1211 A-3	.4		
-4 TO EE1221 A-4	.5		
-5 TO EE1311 A-5	.5		
M3 -1 TO EE1222 A-6	.6		
-2 TO EE1212 B-1	.5		
-3 TO EE1122 B-2	.5		
-4 TO EE1112 B-3	.6		
-5 TO EE1321 B-4	.6		
M4 -1 TO EE1312 B-5	.6		
-2 TO EE1322 B-6	.6		
-3 TO EE1612 C-1	.4		

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CONTINUITY TESTING
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PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE		AFTER SOLDER	MJ
(CONT.) M4 -4 TO EE1622 C-2	.5	TO CERAMICAL	1/18/05
-5 TO EE1512 C-3	.5		
M5 -1 TO EE1123 C-4	.5		
-2 TO EE1113 C-5	.6		
-3 TO EE1422 C-6	.5		
-4 TO EE1412 D-1	.4		
-5 TO EE1522 D-2	.5		
M6 -1 TO EE1213 D-3	.5		
-2 TO EE1223 D-4	.5		
-3 TO EE1313 D-5	.5		
-4 TO EE1323 D-6	.5		
M7 N/A			

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CONTINUITY TESTING
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PORCUPINE "E"

(CONT.)

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE		AFTER SOLDER TO CERAMIC	MJ 1/18/05
M8 -1 TO EE8121 (E-1)	.5		
-2 TO EE8111 (E-2)	.5		
-3 TO EE8122 (E-3)	.5		
-4 TO EE8112 (E-4)	.5		
M9 -1 TO EE8123 (E-5)	.5		
-2 TO EE8113 (E-6)	.5		
-3 TO EE8223 (F-1)	.5		
-4 TO EE8323 (F-2)	.5		
M10 -1 TO EE8313 (F-3)	.5		
-2 TO EE8423 (F-4)	.5		
-3 TO EE8413 (F-5)	.6		
-4 TO EE8613 (F-6)	.6		

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DFBX E

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CONTINUITY TESTING
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PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE			
(CONT.) M12 -1 TO +EH8311 (I-5)	.3	AFTER SOLDER 10 CERAMICAL	MJ 1/18/05
-2 TO -EH8311 (I-6)	.2		
-3 TO +EH8321 (J-1)	.2		
-4 TO -EH8321 (J-2)	.2		
M13 -1 TO +EH8312 (J-3)	.2		
-2 TO -EH8312 (J-4)	.2		
-3 TO +EH8322 (J-5)	.2		
-4 TO -EH8322 (J-6)	.2		
M14 -1 TO +EH8332 (K-1)	.2		
-2 TO -EH8332 (K-2)	.3		
-3 TO +EH8342 (K-3)	.3		
-4 TO -EH8342 (K-4)	.3		

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PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE		AFTER SOLDER	[illegible]
(CONT) M15 -1 TO +EH8313 K-5	.3	TO [illegible]	[illegible]
-2 TO -EH8313 K-6	.3		
-3 TO +EH8323 L-1	.2		
-4 TO -EH8323 L-2	.3		
M17 -1 TO +YT1111 G-1	.3		
-3 TO -YT1111 G-2	.2		
-5 TO +YT1121 G-3	.3		
M18 -2 TO +YT1112 G-5	.3		
-4 TO -YT1121 G-4	.3		
M19 -1 TO -YT1112 G-6	.3		
-3 TO +YT1122 H-1	.3		
-5 TO -YT1122 H-2	.3		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 47900002

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DFBXE

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CONTINUITY TESTING
MTM-MP-1020

PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
(CONT) HYPERTRONICS MODULE		AFTER SOLDER	MJ
M20 -2 TO -YT1132 H-4	.4	10 [illegible]	
-4 TO +YT1132 H-3	.4		
M21 -1 TO +YT1142 H-5	.4		
-3 TO -YT1142 H-6	.4		
-5 TO +YT1113 I-1	.4		
M22 -2 TO +YT1123 I-3	.4		
-4 TO -YT1113 I-2	.4		
M23 -1 TO -YT1123 I-4	.3		

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PORCUPINE E HYPERTRONICS MODULE

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CONTINUITY TESTING
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M26

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
-1 TO I+ π8332 19	1.1	after soldered to ceramic seal	1-19-05 Cindy
-2 TO I- π8332 20	1.1		
-3 TO V+ π8332 17	1.1		
-4 TO V- π8332 18	1.1		
-5 TO I+ π8342 23	1.1		
-6 TO I- π8342 24	1.1		
-7 TO V+ π8313 25	1.1		
-8 TO I- π8313 28	1.1		
-9 TO I+ π8313 27	1.1		
-10 TO V- π8342 22	1.1		
-11 TO V+ π8342 21	1.1		
-12 TO V- π8313 26	1.0		
-13 TO I+ π8323 31	1.1		
-14 TO I- π8323 32	1.1		
-15 TO V+ π8323 29	1.1		
-16 TO V- π8323 30	1.1		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 47900002

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CONTINUITY TESTING
MTM-MP-1020

PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE		AFTER STYCAST	1-20-05 Cindy
M2 -1 TO EE1111 A-1	.6		
-2 TO EE1121 A-2	.6		
-3 TO EE1211 A-3	.6		
-4 TO EE1221 A-4	.7		
-5 TO EE1311 A-5	.6		
M3 -1 TO EE1222 A-6	.6		
-2 TO EE1212 B-1	.6		
-3 TO EE1122 B-2	.6		
-4 TO EE1112 B-3	.6		
-5 TO EE1321 B-4	.6		
M4 -1 TO EE1312 B-5	.6		
-2 TO EE1322 B-6	.6		
-3 TO EE1612 C-1	.6		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 4790000 2

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CONTINUITY TESTING
MTM-MP-1020

PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE		AFTER STYCAST	1-20-05 CINDY
(CONT.) M4 -4 TO EE1622 C-2	.6		
-5 TO EE1512 C-3	.6		
M5 -1 TO EE1123 C-4	.6		
-2 TO EE1113 C-5	.6		
-3 TO EE1422 C-6	.6		
-4 TO EE1412 D-1	.6		
-5 TO EE1522 D-2	.6		
M6 -1 TO EE1213 D-3	.6		
-2 TO EE1223 D-4	.6		
-3 TO EE1313 D-5	.6		
-4 TO EE1323 D-6	.6		
M7 N/A		✓	✓

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 4790000 Ω

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DFBX E

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CONTINUITY TESTING
MTM-MP-1020

PORCUPINE "E"

(CONT.)

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE		AFTER STYCAST	1-20-05 CINDY
M8 -1 TO EE8121 (E-1)	.6		
-2 TO EE8111 (E-2)	.6		
-3 TO EE8122 (E-3)	.6		
-4 TO EE8112 (E-4)	.6		
M9 -1 TO EE8123 (E-5)	.6		
-2 TO EE8113 (E-6)	.6		
-3 TO EE8223 (F-1)	.6		
-4 TO EE8323 (F-2)	.6		
M10 -1 TO EE8313 (F-3)	.6		
-2 TO EE8423 (F-4)	.6		
-3 TO EE8413 (F-5)	.6		
-4 TO EE8613 (F-6)	.6		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 4790000 2

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CONTINUITY TESTING
MTM-MP-1020

PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE		AFTER STYCAST	1-20-05 CINDY
(CONT.) M12 -1 TO +EH8311 (I-5)	.5		
-2 TO -EH8311 (I-6)	.5		
-3 TO +EH8321 (J-1)	.4		
-4 TO -EH8321 (J-2)	.4		
M13 -1 TO +EH8312 (J-3)	.4		
-2 TO -EH8312 (J-4)	.4		
-3 TO +EH8322 (J-5)	.5		
-4 TO -EH8322 (J-6)	.4		
M14 -1 TO +EH8332 (K-1)	.4		
-2 TO -EH8332 (K-2)	.4		
-3 TO +EH8342 (K-3)	.4		
-4 TO -EH8342 (K-4)	.4		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 4790000 2

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CONTINUITY TESTING
MTM-MP-1020

PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
HYPERTRONICS MODULE		AFTER STYCAST	1-20-05 CINDY
(CONT) M15 -1 TO + EH8313 K-5	.4		
-2 TO - EH8313 K-6	.4		
-3 TO + EH8323 L-1	.4		
-4 TO - EH8323 L-2	.4		
M17 -1 TO + YT1111 G-1	.4		
-3 TO - YT1111 G-2	.4		
-5 TO + YT1121 G-3	.4		
M18 -2 TO + YT1112 G-5	.4		
-4 TO - YT1121 G-4	.4		
M19 -1 TO - YT1112 G-6	.4		
-3 TO + YT1122 H-1	.4		
-5 TO - YT1122 H-2	.4		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 47900002

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CONTINUITY TESTING
MTM-MP-1020

PORCUPINE "E"

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
(CONT) HYPERTRONICS MODULE		AFTER STYCAST	1-20-05 CLODY
M20 -2 TO -YT1132 H-4	.4		
-4 TO +YT1132 H-3	.4		
M21 -1 TO +YT1142 H-5	.4		
-3 TO -YT1142 H-6	.4		
-5 TO +YT1113 I-1	.4		
M22 -2 TO +YT1123 I-3	.4		
-4 TO -YT1113 I-2	.4		
M23 -1 TO -YT1123 I-4	.4		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 4790000 Ω

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PORCUPINE "E" DFBX E
HYPERTRONICS MODULE

CONTINUITY TESTING
MTM-MP-1020

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Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
-1 TO I+ TT8311 3	1.0	AFTER SYNCAST	1-20-05 CINDY
-2 TO I- TT8311 4	1.0		
-3 TO V+ TT8311 1	1.0		
-4 TO V- TT8311 2	1.0		
-5 TO I+ TT8321 7	1.0		
-6 TO I- TT8321 8	1.0		
-7 TO V+ TT8312 9	1.0		
-8 TO I- TT8312 12	1.0		
-9 TO I+ TT8312 11	1.0		
-10 TO V- TT8321 6	1.0		
-11 TO V+ TT8321 5	1.0		
-12 TO V- TT8312 10	1.0		
-13 TO I+ TT8322 15	1.0		
-14 TO I- TT8322 16	1.0		
-15 TO V+ TT8322 13	1.0		
-16 TO V- TT8322 14	1.0		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 4790002

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PORCUPINE HYPERTRONICS. MODULE

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CONTINUITY TESTING
MTM-MP-1020

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M26

Function Designator, Tag or Description	Resistance ohms	Assembly Step	By Date
-1 TO I+ TT8332 19	1.0	AFTER STYCAST	1-20-05 CUDDY
-2 TO I- TT8332 20	1.0		
-3 TO V+ TT8332 17	1.1		
-4 TO V- TT8332 18	1.0		
-5 TO I+ TT8342 23	1.0		
-6 TO I- TT8342 24	1.0		
-7 TO V+ TT8313 25	1.0		
-8 TO I- TT8313 28	1.0		
-9 TO I+ TT8313 27	1.0		
-10 TO V- TT8342 22	1.0		
-11 TO V+ TT8342 21	1.0		
-12 TO V- TT8313 26	1.0		
-13 TO I+ TT8323 31	1.0		
-14 TO I- TT8323 32	1.0		
-15 TO V+ TT8323 29	1.0		
-16 TO V- TT8323 30	1.0		

Multimeter Make and MTM Serial Number: FLUKE 85 MULTIMETER S/N # 4790000 2

Test Instruments Used

Test Model #	Test Serial #	Calibration Due Date
7550DT	9111100	01/31/2004

Test Date: 02/24/2005

Test Time: 02:37:41 AM

User Name: Glenn O Hardy

Device Tested

MQXZ PORCUPINE

Model Number: box "E"

Serial Number: LQX In He. A thru D

Setup Filename:

Results

	Test Type	Memory	Step	Pass/Fail	Test Result	Timer	Parameter 1	Parameter 2
1	DC Withstand	26	1	Pass	Pass	60.0s	1.40KV	0.0microamps
2	DC Withstand	26	2	Pass	Pass	60.0s	1.40KV	0.0microamps
3	DC Withstand	26	3	Pass	Pass	60.0s	1.40KV	0.0microamps
4	DC Withstand	26	4	Pass	Pass	60.0s	1.40KV	0.0microamps

Test Instruments Used

Test Model #	Test Serial #	Calibration Due Date
7550DT	9111100	01/31/2004

Test Date: 02/24/2005

Test Time: 03:10:08 AM

User Name: Glenn D Koready

Device Tested

MQX2 PORCUPINE

Model Number: box "E"

Serial Number: LQX In He.voltage taps quench

Setup Filename:

Results

E THRU H

	Test Type	Memory	Step	Pass/Fail	Test Result	Timer	Parameter 1	Parameter 2
1	DC Withstand	26	1	Pass	Pass	60.0s	1.40KV	0.0microamps

Test Instruments Used

Test Model #	Test Serial #	Calibration Due Date
7550DT	9111100	01/31/2004

Test Date: 02/24/2005

Test Time: 03:31:34 AM

User Name: Glenn D. Kowalsky

Device Tested

MQX 2 PORCUPINE

Model Number: box "E"

Serial Number: LQX In He.warm up heaters il-L'

Setup Filename:

Results

	Test Type	Memory	Step	Pass/Fail	Test Result	Timer	Parameter 1	Parameter 2
1	DC Withstand	27	4	Pass	Pass	60.0s	0.65KV	0.0microamps
2	DC Withstand	27	5	Pass	Pass	60.0s	0.65KV	0.0microamps
3	DC Withstand	27	6	Pass	Pass	60.0s	0.65KV	0.0microamps

Test Instruments Used

Test Model #	Test Serial #	Calibration Due Date
7550DT	9111100	01/31/2004

Test Date: 02/24/2005

Test Time: 03:39:47 AM

User Name: [illegible]

Device Tested

MQX2 PORCUPINE

Model Number: box "E"

Serial Number: LQX In He.warm up heaters iI-L'

Setup Filename:

Results

	Test Type	Memory	Step	Pass/Fail	Test Result	Timer	Parameter 1	Parameter 2
1	DC Withstand	28	1	Pass	Pass	60.0s	0.20KV	0.0microamps