

Tethys Variable Buoyancy Control Revised: Wednesday, June 24, 2009									
Revision: A									
Item	Quantity	Reference	Part	Manufacturer	Manuf PN	Supplier	Supplier PN	Description	Package
1	5	C1	0.1uF	Panasonic-ECG	ECJ-3VB1E104K	Digikey	PCC1883CT-ND	X7R 10% 25V 0.1uF	1206
		C3	0.1uF	Panasonic-ECG	ECJ-3VB1E104K	Digikey	PCC1883CT-ND	X7R 10% 25V 0.1uF	1206
		C5	0.1uF	Panasonic-ECG	ECJ-3VB1E104K	Digikey	PCC1883CT-ND	X7R 10% 25V 0.1uF	1206
		C6	0.1uF	Panasonic-ECG	ECJ-3VB1E104K	Digikey	PCC1883CT-ND	X7R 10% 25V 0.1uF	1206
		C7	0.1uF	Panasonic-ECG	ECJ-3VB1E104K	Digikey	PCC1883CT-ND	X7R 10% 25V 0.1uF	1206
2	4	C2	1nF	AVX Corp	12061A102FAT2A	Digikey	478-3778-1-ND	1% 100V COG	1206
		C4	1nF	AVX Corp	12061A102FAT2A	Digikey	478-3778-1-ND	1% 100V COG	1206
		C8	1nF	AVX Corp	12061A102FAT2A	Digikey	478-3778-1-ND	1% 100V COG	1206
		C11	1nF	AVX Corp	12061A102FAT2A	Digikey	478-3778-1-ND	1% 100V COG	1206
3	2	C9	0.1uF	Murata	GRM31C5C1E104JA01L	Digikey	490-1767-1-ND	5% 25V COG	1206
		C10	0.1uF	Murata	GRM31C5C1E104JA01L	Digikey	490-1767-1-ND	5% 25V COG	1206
4	1	C12	47uF 50V	Panasonic-ECG	EEV-TG1H470P	Digikey	PCE3652CT-ND	TG Electrolytic 20% 50V	G
5	1	C13	22uF 16V	Kemet	T520C226M016ATE080	Digikey	399-5119-1-ND	KO Cap T520 Tantalum	6032-28 (EIA)
6	3	J1	CON2	Molex	70543-0001	Digikey	WM4800-ND	2-pin Vert Header	Thru-Hole
		J2	CON2	Molex	70543-0001	Digikey	WM4800-ND	2-pin Vert Header	Thru-Hole
		J4	CON2	Molex	70543-0001	Digikey	WM4800-ND	2-pin Vert Header	Thru-Hole
7	1	J3	CON3	Molex	70543-0002	Digikey	WM4801-ND	3-pin Vert Header	Thru-Hole
8	1	K1	DS2E-ML2-DC5V	Panasonic Electric Works	DS2E-ML2-DC5V	Mouser	769-DS2E-ML2-DC5V	Dual Coil Latching Relay	Through Hole
9	1	P1	CON2	Molex	50-57-9402	Digikey	A28392-ND	2-pin Plug	Free Hanging
10	1	P2	CON2	Molex	50-57-9402	Digikey	A29357-ND	2-pin Plug	Free-Hanging
11	1	P3	CON3	Molex	50-57-9403	Digikey	A29360-ND	3-pin Plug	Free Hanging
12	1	P4	CON2	Molex	50-57-9402	Digikey	WM1242-ND	2-pin Plug	Free Hanging
13	5	R1	100K	Panasonic-ECG	ERJ-8GEYJ104V	Digikey	P100KECT-ND	100K 5% 1206 0.25W Res	1206
		R2	100K	Panasonic-ECG	ERJ-8GEYJ104V	Digikey	P100KECT-ND	100K 5% 1206 0.25W Res	1206
		R5	100K	Panasonic-ECG	ERJ-8GEYJ104V	Digikey	P100KECT-ND	100K 5% 1206 0.25W Res	1206
		R8	100K	Panasonic-ECG	ERJ-8GEYJ104V	Digikey	P100KECT-ND	100K 5% 1206 0.25W Res	1206
		R10	100K	Panasonic-ECG	ERJ-8GEYJ104V	Digikey	P100KECT-ND	100K 5% 1206 0.25W Res	1206
14	2	R3	10K	Panasonic-ECG	ERJ-8GEYJ103V	Digikey	P10KECT-ND	10K 5% 1206 0.25W Res	1206
		R6	10K	Panasonic-ECG	ERJ-8GEYJ103V	Digikey	P10KECT-ND	10K 5% 1206 0.25W Res	1206
15	4	R4	10K 1%	Panasonic-ECG	ERJ-8ENF1002V	Digikey	P10.0KFCT-ND	0.25W 1% 100ppm	1206
		R7	10K 1%	Panasonic-ECG	ERJ-8ENF1002V	Digikey	P10.0KFCT-ND	0.25W 1% 100ppm	1206
		R9	10K 1%	Panasonic-ECG	ERJ-8ENF1002V	Digikey	P10.0KFCT-ND	0.25W 1% 100ppm	1206
		R13	10K 1%	Panasonic-ECG	ERJ-8ENF1002V	Digikey	P10.0KFCT-ND	0.25W 1% 100ppm	1206
16	1	R11	750K 1%	Panasonic-ECG	ERJ-8ENF7503V	Digikey	P750KFCT-ND	0.25W 1% 100ppm	1206
17	1	R12	150K 1%	Panasonic-ECG	ERJ-8ENF1002V	Digikey	P10.0KFCT-ND	0.25W 1% 100ppm	1206
18	1	R14	Zero	Panasonic-ECG	ERJ-8GEY0R00V	Digikey	P0.0ECT-ND	0 5% 1206 0.25W	1206
19	2	TP1	Test Point	Keystone Electronics	5011	Digikey	5011K-ND	Black Test Point	Thru-Hole
		TP2	Test Point	Keystone Electronics	5011	Digikey	5011K-ND	Black Test Point	Thru-Hole
20	1	U1	MMBD4148CC	Fairchild Semiconductor	MMBD4148CC	Digikey	MMBD4148CCCT-ND	1 Pair Common Cathode	SOT-23
21	3	U2	74HC123	Texas Instruments	CD74HC123M96	Digikey	296-14508-1-ND	Dual Monostable Multivibrator	16-SOIC
		U5	74HC123	Texas Instruments	CD74HC123M96	Digikey	296-14508-1-ND	Dual Monostable Multivibrator	16-SOIC
		U6	74HC123	Texas Instruments	CD74HC123M96	Digikey	296-14508-1-ND	Dual Monostable Multivibrator	16-SOIC
22	1	U3	IRF7303PbF	International Rectifier	IRF7303PBF	Digikey	IRF7303PBFCT-ND	Dual N-Chan Mosfet	8-SOIC
23	1	U4	SN74LVC1G08	Texas Instruments	SN74LVC1G08DBVR	Digikey	296-11601-1-ND	Single 2-In AND Gate	SOT23-5
24	1	U7	IRF7306PbF	International Rectifier	IRF7306PBF	Digikey	IRF7306PBFCT-ND	Dual P-Chan Mosfet	8-SOIC
25	1	U8	SN74LVC32A	Texas Instruments	SN74LVC1G32DBVR	Digikey	296-9847-1-ND	Single 2-In OR Gate	SOT23-5
26	1	U9	7805SRH-C	Murata Power Solutions	7805SR-C	Digikey	811-1116-ND	5Vdc Regulator Switch	3-SIP
27	2	V1	Blank Pad						
		V2	Blank Pad						