

Vehicle Close Out Check List

1. Motherboard

- a. Board serial number #2
- b. Vehicle Name is “Tethys”
- c. Emergency Board (Daughter Board)
 - i. Jumper Settings

Jumper	Comment	Status
JP1	Singe Reset	Open
JP2	Reset Counter	5&6
JP3	Single Heartbeat	Open
JP4	Heartbeat Counter	17&18
JP5	Heartbeat Clear	1&2
JP6	Flatline	1&2
JP7	Timer Multiplier	3&4, 5&6
JP8	Heartbeat Timer	21&22
JP9	/Emergency Reset	1&2

ii. Notes for settings

- 1. JP3 currently set for N=8
- 2. JP7 Settings

Jmp	A	B	N
1&2, 5&6	0	0	13 (8192)
1&2, 7&8	0	1	10 (1024)
3&4, 5&6	1	0	8 (256)
3&4, 7&8	1	1	16 (65536)

3. JP8 Settings

Jmp	Time
1-2	500 msec
3-4	1 sec
5-6	2 sec
7-8	4 sec
9-10	8 sec
11-12	16 sec
13-14	32 sec
15-16	64 sec (1 min)
17-18	128 sec (2.1 min)
19-20	256 sec (4.3 min)
21-22	512 sec (8.5 min)
23-24	1024 sec (17 min)

- d. Memory Card Installed? Yes

e. LED Jumpers

Jumper	Comment	Status (1 = On)	Removed
JP-26	24 vdc LC	1	
JP-32	5 vdc	1	
JP-33	3.3 vdc	1	
JP-31	3.15 vdc	1	
JP-36	12 vdc LC	1	
JP-35	5 vdc LC	1	
JP-34	3.3 vdc LC	1	
JP-41	Shore Power	0	
JP-43	1.8 vdc	1	
JP-30	Vehicle Power	1	
JP-42	Battery Power	1	

f. Other Jumpers

Jumper	Comment	Status	Correct
JP-1	VBAT to LPC	installed	
JP-2	/service	open	
JP-4	flash	open	
JP-5		Open	
JP-6		1&2	
JP-7		Open	
JP-8	UART 1	3&4 7&8	
JP-9		1&2, 5&6	
JP-10	UART 3	3&4 7&8	
JP-11		Open	
JP-12		3&4 7&8	
JP-13		3&4 7&8	
JP-14		3&4 7&8	
JP-15		1&2	
JP-16		3&4 7&8	
JP-17		1&2	
JP-18		1&2 5&6	
JP-19		1&2	
JP-20		3&4 7&8	
JP-21		1&2	
JP-22		1 & 2	
JP-23		1&2	
JP-27		open	
JP-28		1&2	
JP-37		3&4	
JP-40		open	

g. Connectors

Connector	Description	Correct?
J-3	!! empty !!	
J-4	Batt comms	
J-5	485 comms EZ servo	
J-6	DVL	
J-7	Iridium	
J-8	Batt comms	
J-9	H2O detect	
J-10	H2O detect	
J-11	Humidity and Temp	
J-14	Sea water ground	
J-20	Drop weight / burn wire	
J-21	Iridium power	
J-23	Ethernet	
J-31	SP3004D	
J-32	empty	
J-33	Free Wave	
J-34	Tether	
J-35	Main Batt	
J-36	Shore Power	empty
J-37	Emerg Batt	
J-38	LC pwr to Iridium, Slot 2	
J-39	LC pwr to Freewave, Slot 10	
J-40	Freewave power	
J-46	LCB #2 SPI !! Res 13-15 !!	
J-47	LCB #2 power	Open
J-48	LCB #1 power	
J-49	LCB #0 power	
J-50	LCB #1 SPI	
J-51	LCB #0 SPI	

2. EZ Servos

Name	Address	J-1	J-2	J-3	J-4	J-5	J-6	Checked?
Elevator	1	-	Y	-	-	Y	Y	
Rudder	2	-	Y	-	-	Y	Y	
Prop	3	-	Y	Y	Y	-	Y	
VB	6	Y	Y	Y	Y	Y	Y	
Mass Shifter	4	-	Y	-	Y	Y	Y	

3. Load Control Boards

Slot	Ser #	Device served	Jumper for pwr red
0	1-0-0-Mike A/D	MSI 3000	-
1	Empty		-
2	13-232-5	Iridium power (no comms)	1 + 3
3	2-232-0-Comm	DO	13
4	3-232-0-Comm	CTD	13
5	16-232-12	Puck (pwr and comm.)	1 + 3
6	5-232-0-Comm	MicroStrain compass	13
7	15-485-Batt	Thruster (pwr, no comm)	1 + 3
8	9-0-Batt-Pwr	Mass + Buoy	12
9	10-0-Bat-Pwr	Rudder + Elevator	12
10	17-Offboard-5	Freewave	1 + 3
11	14-232-Batt-Discrete	ISUS	1 + 3
12	Empty		-
13	Empty		-
14	Pwr Breakout	3.3 Sparton, 5 CTD, 12 DO, 24 DVL	-
15	Pwr Breakout	5 MicroStrain	-

4. Variable Buoyancy Valve Board

Connector	Connected
Shutoff Valve	
Pressure Switch	
VB EZSV23	
Batt Pwr	

- a. Pressure switch set at 100 psig

5. Shore Power DEMUX-MUX boards

a. DEMUX

- i. Two supply connections on positive board
- ii. One load connection on positive board
- iii. Two supply connections on negative board
- iv. One load connection on negative board
- v. Sense lines connected to positive and negative posts

b. MUX

- i. One positive connection
- ii. One negative connection
- iii. Six load connections to Ocean Servers

6. Battery Boards

- a. All connectors are verified installed and tight

7. Emergency Battery
 - a. Voltage: 12.765
 - b. New on 2010 / 08 / 29
8. Mass Shifter stops
 - a. Aft at 9 5/8 inches
 - b. Fwd at 37 inches.
9. Iridium
 - a. col
 - b. tNe
10. Weights Installed Internally
 - a. Forward
 - i. None
 - b. Aft
 - i. None
11. Clean and inspect aft dome o-rings
12. Clean and inspect fwd dome o-rings
13. Clean and inspect bolt o-rings
14. Install 22 new desiccant bags
15. Install PV tube
 - a. Verify water detect sensors touching inside surface of tube
 - b. Verify all internal wires are clear
 - c. Verify o-rings seat
16. Install Forward Dome
 - a. Make Amphenol connection
 - b. Torque bolts to 75 inch pounds
17. Draw vacuum
 - a. 8 inches Hg / psi at 2010/12/10 1500
18. Batteries installed in external xpdrs
 - a. Pinger RJE
 - i. Model ULB-350/37
 - ii. Serial DT16485
 - iii. Freq 37KHZ 1pps
 - iv. New Batteries on 2010/10/24

- b. Transponder - Benthos
 - i. Model UAT-49897
 - ii. Serial 2202
 - iii. Rcv 26 KHZ
 - iv. Pressure tested to 1100 psi (730 meters)
 - v. New Batteries on ____2010/10/24_