

MBARI																								
JOSE ROSAL																								
ESP WIRE HARNESS OUTSOURCE BOM, 07.12.06																								
						5 SYSTEMS NEEDED			ORDERING INFO															
PER SYSTEM BILL OF MATERIAL						SYS.TOTAL	PROJ TOTAL		PIN	BUILD QTY		IN STOCK			HOUSING	BUILD QTY		IN STOCK						
ITEM	QTY	REFERENCE	MANUFACTURER	PN	DESCRIPTION				39-00-0164	40					39-01-4040	10								
									16-02-0103	1065					50-57-9403	50								
ABSOLUTE ENCODER	8								104479-7	1015					103648-2	40								
1	5	CP1,CP2,CP3,CP4,CP5	Amp	104479-7	Pin for 103648	40	200		16-02-0115	240					103648-9	45								
2	5	CP6,CP7,CP8,CP9,CP10	Molex	16-02-0103	Pin For 50-57-94XX	40	200								50-57-9404	30								
3	1	J1	Molex	103648-5	6 Pin Housing	8	40								103648-1	50								
4	1	J2	Molex	50-57-9405	5 Pin Housing	8	40								103648-5	60								
															50-57-9405	40								
BULKHEAD VALVE	2														103648-4	20								
1	2	CP1,CP2	Amp	104479-7	Pin for 103648	4	20								50-57-9406	10								
2	1	J1	Amp	103648-1	2 pin housing	2	10								50-57-9402	10								
															70107-0007	20								
HOME SENSOR	6								OTHER	SYSTEM QTY					50-57-9408	20								
1	3	CP1,CP2,CP3	Molex	16-02-0103	Pin For 50-57-94XX	18	90		VN101503	5					644-068	80								
2	3	CP4,CP5,CP6	Amp	104479-7	Pin for 103648	18	90		P34024	5					50-57-9410	35								
3	1	J1	Molex	50-57-9403	3 Pin locking connector housing	6	30		L34024	5					70107-0001	40								
4	1	J2	Amp	103648-2	3 Pin connector housing	6	30								50-57-9401	40								
LATCHHOME	2																							
1	6	CP1,CP2,CP3,CP4,CP5,CP6	Amp	104479-7	Pin for 103648	12	60		SYSTEM BOM															
2	6	CP7,CP8,CP9,CP10,CP11,CP12	Molex	16-02-0103	Pin For 50-57-94XX	12	60		Item	Per Sys Qty	Reference	Part	Length	Subsystem										
3	1	J1	Amp	103648-5	6 pin housing	2	10		48	2	WH17,WH19	Absolute Harness	28	COLLECTION										
4	1	J2	Molex	50-57-9406	6 pin housing	2	10		51	1	WH21	Absolute Harness	14	COLLECTION										
									38	1	WH1	Heater Harness	DIY	COLLECTION										
MAXON 6PIN	5								40	1	WH3	Home Sensor Harness	12.5	COLLECTION										
1	7	CP1,CP2,CP3,CP4,CP5,CP6,CP7	Amp	104479-7	Pin for 103648	35	175		41	1	WH4	Home Sensor Harness	11.5	COLLECTION										
									42	1	WH5	Maxon 6pin Harness	6.5	COLLECTION										
2	7	CP8,CP9,CP10,CP11,CP12,CP13,CP14	Molex	16-02-0103	Pin For 50-57-94XX	35	175		43	1	WH6	Maxon 6pin Harness	6	COLLECTION										
3	1	J1	Amp	103648-9	10 pin housing	5	25		49	1	WH18	Motor Harness	25	COLLECTION										
4	1	J2	MOLEX	50-57-9410	10 pin housing	5	25		50	1	WH20	Motor Harness	25	COLLECTION										
									52	1	WH22	Motor Harness	12	COLLECTION										
MAXON 10PIN	2								57	1	WH26	Pressure Harness	DIY	COLLECTION										
1	10	CP1,CP2,CP3,CP4,CP5,CP6,CP7,CP8,CP9,CP10	Amp	104479-7	Pin for 103648	20	100		58	1	WH27	Puck Sensor Harness	19.5	COLLECTION										
									44	1	WH7	Thermal Control Harness	24	COLLECTION										
2	10	CP11,CP12,CP13,CP14,CP15,CP16,CP17,CP18,CP19,CP20	Molex	16-02-0103	Pin For 50-57-94XX	20	100		46	2	WH9	Valve Harness	SEE SCHEMATIC	COLLECTION										
									45	1	WH8	Valve Manifold Harness	24	COLLECTION										
3	1	J1	Amp	103648-9	10 pin housing	2	10		47	1	WH11	Absolute Harness	20	iSAMPLER										
4	1	J2	MOLEX	50-57-9410	10 pin housing	2	10		67	1	WH46	Bulkhead Valve Harness	20	iSAMPLER										
MOTOR HARNESS	8								69	1	WH48	Bulkhead Valve Harness	11	iSAMPLER										
1	2	CP1,CP2	Amp	104479-7	Pin for 103648	16	80		53	1	WH23	Home Sensor Harness	6	iSAMPLER										
2	2	CP3,CP4	Molex	16-02-0115	Pin for 70107, MALE	16	80		68	1	WH47	Maxon 10pin Harness	8.5	iSAMPLER										
3	2	CP5,CP6	Molex	16-02-0103	Pin For 50-57-94XX	16	80		70	1	WH49	Motor Harness	18	iSAMPLER										
4	1	J1	Amp	103648-1	2 pin housing	8	40		71	1	WH50	Pressure Harness	DIY	iSAMPLER										
5	1	J2	Molex	70107-0001	2 pin housing	8	40																	
6	1	J3	Molex	50-57-9401	2 pin housing	8	40		76	1	WH72	Gripper Control Harness	DIY	MANIPULATOR										
									77	1	WH73	Gripper Motor Harness	DIY	MANIPULATOR										
PUCK SENSOR	2								72	1	WH67	Home Sensor Harness	DIY	MANIPULATOR										
1	4	CP1,CP2,CP3,CP4	Amp	104479-7	Pin for 103648	8	40		73	1	WH68	LatchHome Harness	6.5	MANIPULATOR										
2	4	CP6,CP7,CP8,CP9	Molex	16-02-0103	Pin For 50-57-94XX	8	40		75	1	WH71	LatchHome Sensor Harness	DIY	MANIPULATOR										
3	1	J1	Amp	103648-4	5 pin housing	2	10		74	2	WH69,WH70	Maxon 10pin Harness	DIY	MANIPULATOR										
4	1	J2	Molex	50-57-9404	4 pin housing	2	10																	
									63	2	WH40,WH42	Absolute Harness	34	PROCESSING										
THERMAL CONTROL	2								65	1	WH44	Absolute Harness	27	PROCESSING										
1	4	CP1,CP2,CP3,CP4	Amp	104479-7	Pin for 103648	8	40			1	WH101	Absolute Harness	36	PROCESSING										
2	4	CP5,CP6,CP7,CP8	Molex	16-02-0103	Pin For 50-57-94XX	8	40		39	1	WH2	Heater Harness	DIY	PROCESSING										
3	1	J1	Molex	50-57-9404	4 pin housing	2	10		54	1	WH24	Home Sensor Harness	29	PROCESSING										
4	1	J2	Amp	103648-2	4 pin housing	2	10		59	1	WH28	Home Sensor Harness	25	PROCESSING										
									88	1	WH100	Maxon 6pin Harness	27	PROCESSING										
VALVE HARNESS	2								61	1	WH31	Maxon 6pin Harness	29	PROCESSING										
1	16	CP1,CP2,CP3,CP4,CP5,CP6,CP7,CP8,CP9,CP10,CP11,CP12,CP13,CP14,CP15,CP16	Molex	16-02-0103	Pin For 50-57-94XX	32	160		64	2	WH41,WH43	Motor Harness	34	PROCESSING										
									66	1	WH45	Motor Harness	27	PROCESSING										
2	8	J1,J3,J4,J5,J6,J8,J9,J10	Burkert	644-068	2 pin Connecotr and 0.3m wires	16	80			1	WH102	Motor Harness	36	PROCESSING										
3	2	J2,J7	Molex	50-57-9408	2 Pin Housing	4	20		62	1	WH37	Puck Sensor Harness	17	PROCESSING										
									55	1	WH25	Thermal Control Harness	42	PROCESSING										
VALVE MANIFOLD	2								60	2	WH10	Valve Harness	SEE SCHEMATIC	PROCESSING										
									56	1	WH26	Valve Manifold Harness	35	PROCESSING										
	1	16	CP1,CP2,CP3,CP4,CP5,CP6,CP7,CP8,CP9,CP10,CP11,CP12,CP13,CP14,CP15,CP16	Molex	16-02-0115	Pin for 70107, MALE	32	160																
									83	1	WH81	Elevator Detector Harness	24	STORAGE										
									84	1	WH82	Elevator Emitter Harness	16	STORAGE										
									78	1	WH75	Home Sensor Harness	14	STORAGE										
	2	16	CP17,CP18,CP19,CP20,CP21,CP22,CP23,CP24,CP25,CP26,CP27,CP28,CP29,CP30,CP31,CP32	Amp	104479-7	Pin for 103648	32	160																
									82	1	WH80	Latch Home Bare Sensor	36	STORAGE										
									81	1	WH79	LatchHome Harness	6	STORAGE										
									79	1	WH76	Maxon 10pin Harness	20	STORAGE										
									80	1	WH77	Maxon 6pin Harness	13	STORAGE										

[illegible]