

Harness 10021057-H01
wired in-place after installation of bulkhead connector

Aft Bulkhead Connector
Main Umbilical

P1	1	PWR CHARGE POS	RED
	2	ENET_TXP	WHITE/ORANGE
	3	ENET_TXN	ORANGE
	4	ENET_RXP	WHITE/GREEN
	5	ENET_RXN	GREEN/WHITE
	6	RS232_RXD	RED
	7	RS232_TXD	WHITE
	8	SHORE POWER POS	VIOLET
	9	SHORE POWER NEG	BLACK
	10	PWR CHARGE NEG	BLACK

Seacon/MINK-10-L-BCR-DO
10 pin bulkhead receptacle
wired in place
Seacon MINI-CON series
Current limit per #14 pin: 16A
Current limit per wire: 16A

24 AWG twisted pair 24" MIN Actual TBD 2 wires

24 AWG twisted pair 24" MIN Actual TBD 2 wires

24 AWG twisted pair 36" MIN Actual TBD 2 wires

18 AWG hook-up wire 36" MIN Actual TBD 2 wires

14 AWG 20" 2 wires (Jim Montgomery 3-7-16)

WHITE/ORANGE	ENET_TXP	1
ORANGE/WHITE	ENET_TXN	2
		3
		4
WHITE/GREEN	ENET_RXP	5
GREEN/WHITE	ENET_RXN	6
		7
		8

P2 To MB Ethernet Connector
or
Cradle Point Router WAN Port
RJ45 Ethernet
Stewart/940-SP-3088R-A133

P3 To MB RS-232 Serial Console
MB3.0: J6
Molex C-Gid 4x1
Molex/50-57-9404

P4 To Mother Board Shore Power;
MB3.0: J26
3.5MM DIP PLUG
Hirose/MDF6-4DS-3.5C

P5 To Power Interface Board: J1
PC16 Molex/0433740001
Molex/0444412002 Molex Sabre Contact 14-16
Molex Sabre 2x1 Quantity Q2 = 2
Mates with Molex 43160-3102
Crimper: MBARI-0239

PC15 Molex/0016020087
Molex C-Grid Contact
Quantity Q2 = 2

Harness 10021057-H02
wired in-place after installation of bulkhead connector

Aft Bulkhead Connector
Dropweight / Boost Charge

P8	1	BURNWIRE_ACT	Black
	2	BURNWIRE_RTN	White
	3	DROP_WEIGHT_SIGNAL	Red
	4	DROP_WEIGHT_POWER	Green
	5	PWR BOOST POS	Orange
	6	PWR BOOST POS	Blue
	7	PWR BOOST POS	White/Black
	8	PWR BOOST POS	Red/Black
	9	PWR BOOST NEG	Green/Black
	10	PWR BOOST NEG	Orange/Black
	11	PWR BOOST NEG	Blue/Black
	12	PWR BOOST NEG	Black/White

Subconn/MCBH12F AS
SubConn Circular Micro 12 pins
Teledyne Impulse stock connector with 20AWG 24" pigtail
Current limit per pin 5A

Teledyne Impulse/ 20AWG trim to 18" 4 wires (Jim Montgomery 3-7-16)

Teledyne Impulse/ 20AWG trim to 8" 8 wires (Jim Montgomery 3-7-16)

Red	DROP_WEIGHT_SIGNAL	1
Black	BURNWIRE_ACT	2
White	BURNWIRE_RTN	3
Green	DROP_WEIGHT_POWER	4
20AWG Black / second line		5
20AWG White / second line		6

P6 To MB Aft Signals
MB3.0: J33
TE Connectivity Mod II series 2-row
Crimp contacts: 2-87523-4 (20-24 AWG)
Crimper 91516-1
Mates with TE 5-102618-1
Current limit 3A per pin
TE-Connectivity/87631-1

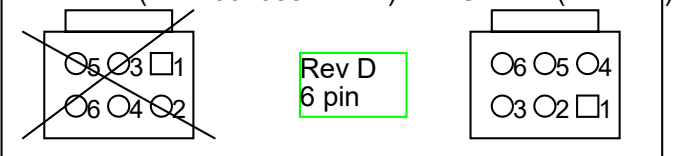
Orange	PWR BOOST POS	1
Blue	PWR BOOST POS	2
Green/Black	PWR BOOST NEG	3
Orange/Black	PWR BOOST NEG	4
Blue/Black	PWR BOOST NEG	5
Black/White	PWR BOOST NEG	6
White/Black	PWR BOOST POS	7
Red/Black	PWR BOOST POS	8
		9
		10

P7 To Power Interface Board: J3
Hirose MDF6 Series Crimp contacts:
MDF6-1618SCF, MDF6-1618SC (16-18AWG)
Mates with Hirose/MDF6- 10DP-3.5DSA(05)
Hirose/MDF6-10DS-3.5C

10021057-PIB1
power interface
board
cont. next page

J3

TE-Connectivity/87631-1 Plug back (wire side) view
Incorrect (MB 10020881Rel B):
Correct (harness):



Rev notes sheet 1
RevA(07/30/2014): Initial Release
RevC(03/26/2015): harness PN added, some moved to p2, length changed
RevD(04/24/2017): wiring update for MB 3.0 only
-H02 length changed 8 wires from 18" to 8"; 4 wires from 12" to 18"; plug P6 changed from 8pin to 6pin, rewired
-H01 length changed 14AWG 2 wires from 24" to 20";
RevE(11/28/17) JR
-Updated revision to "E" on sheet 1.
-Made updates to sheets 2, 3, and 4.
RevF(05/23/18) JR
-Updated revision to "F" on sheet 1.
-Made updates to sheets 2, 3, and 4.



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