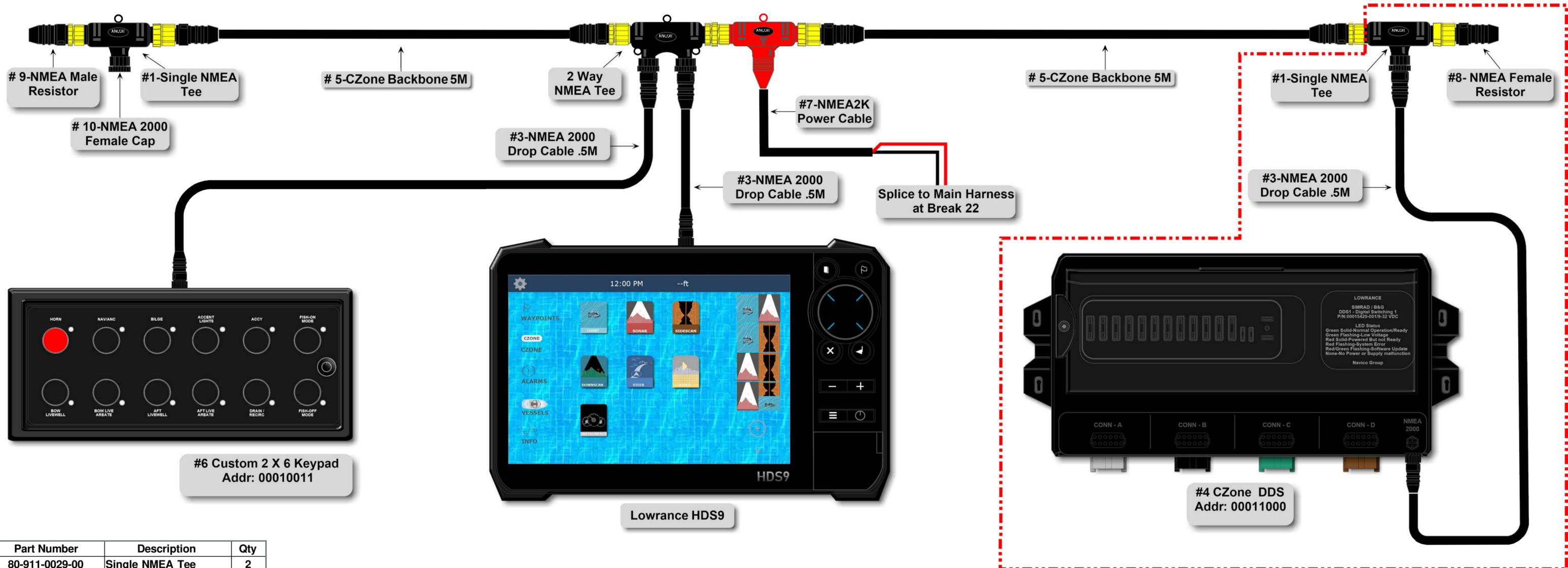


Adventurer and Delta CZone System

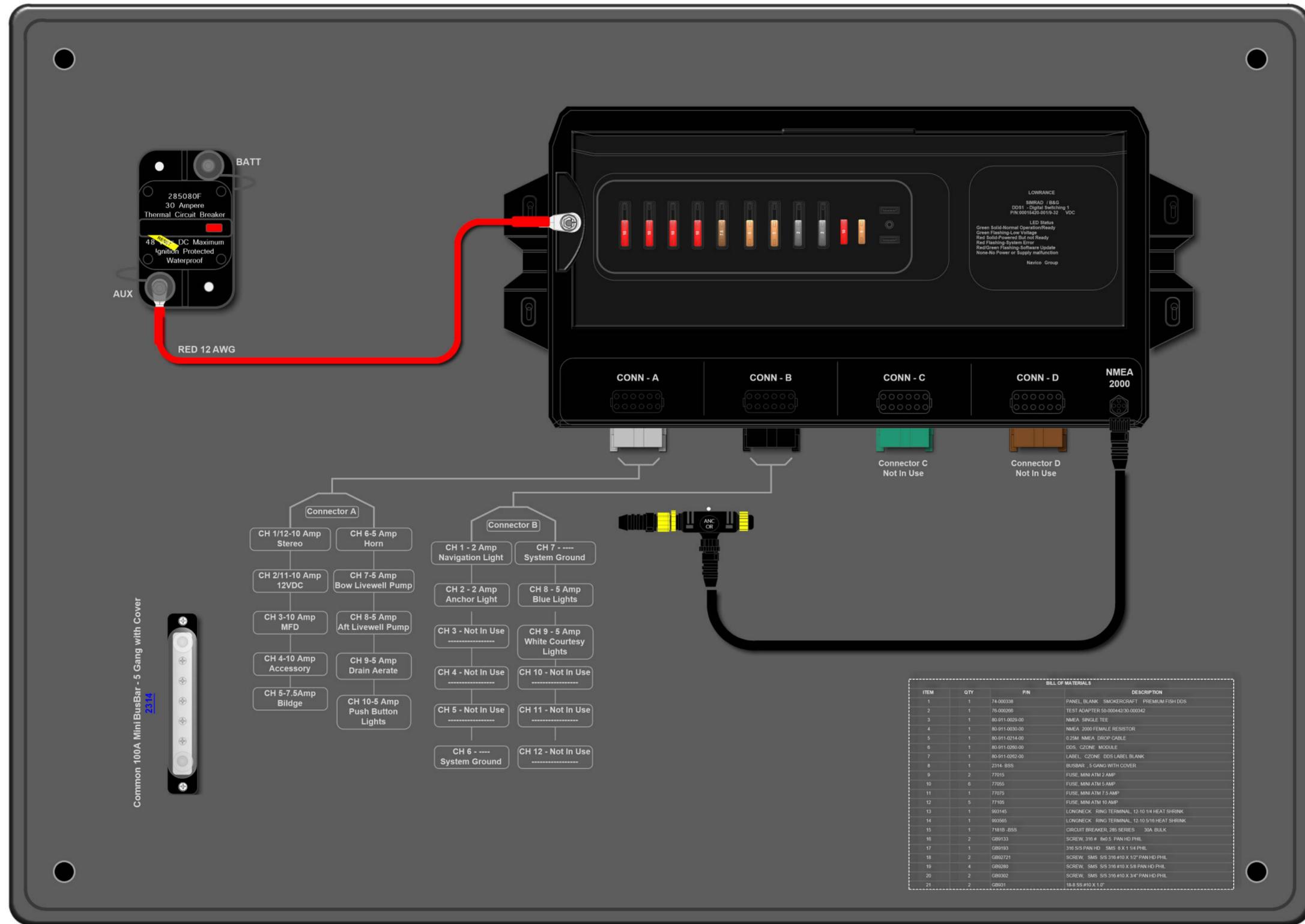


ITEMS INSIDE BOX ARE INSTALLED ON COMPONENT BOARD ASSEMBLY

	Part Number	Description	Qty
1	80-911-0029-00	Single NMEA Tee	2
2	80-911-0047-00	2 Way NMEA Tee	1
3	80-911-0116-00	NMEA Drop Cable .5M	2
4	80-911-0260-00	CZone DDS	1
5	80-911-0024-00	CZone Backbone 5M	2
6	80-911-0164-00	Custom 2X6 Keypad	1
7	80-911-0028-00	NMEA 2000 Power Tee	1
8	80-911-0030-00	NMEA Female Resistor	1
9	80-911-0031-00	NMEA Male Resistor	1
10	80-911-0051-00	Female Blanking Cap	2

CZONE Technical Support Phone: + 1 800 307 6702, Option # 2

Adventurer and Delta CZone Component Board Hybrid Schematic



Adventure and Delta Component Board - DDS CONN A & B - Boat Loads Harness CONN Pin Out & Fusing

Harness Connector A DDS DT06-12S		
Pin #	Color	Function
1	PUR / RED	STEREO
2	RED / WHT	12V / USB
3	RED	MFD
4	RED / BLK	ACCESSORY POWER
5	BRN	BILGE
6	ORG	HORN
7	BRN / ORG	BOW LIVEWELL
8	BRN / BLU	AFT LIVEWELL
9		DRAIN / AERATE
10	BLU / YEL	PUSH BUTTON LIGHTS
11	RED / WHT	12V / USB
12	PUR / RED	STEREO

Harness Connector B DDS DT06-12S		
Pin #	Color	Function
1	GRY / GRN	NAVIGATION LIGHT
2	GRY / BLUE	ANCHOR LIGHT
3		
4		
5		
6	BLK	SYSTEM GROUND
7	BLK	SYSTEM GROUND
8	BLK / BLU	BLUE COURTESY LIGHT
9	BLK / WHT	WHITE COURTESY LIGHT
10		
11		
12		

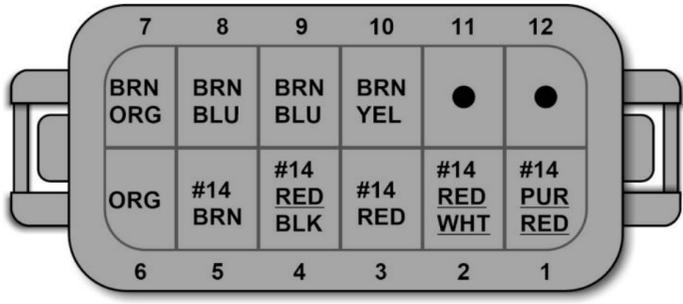
FUSING DDS		
DIP SWITCH 00011000		
CONNECTOR - A		
CHANNEL	DESCRIPTION	FUSE
1/12	STEREO	10 AMP
2/11	12V/USB	10 AMP
3	MFD	10 AMP
4	ACCESSORY POWER	10 AMP
5	BILGE	7.5 AMP
6	HORN	5 AMP
7	BOW LIVEWELL	5 AMP
8	AFT LIVEWELL	5 AMP
9	DRAIN/AERATE	5 AMP
10	PUSH BUTTON LIGHTS	5 AMP

FUSE HOLDER 1		
POSITION	DESCRIPTION	FUSE
1	BILGE PUMP	7.5 AMP

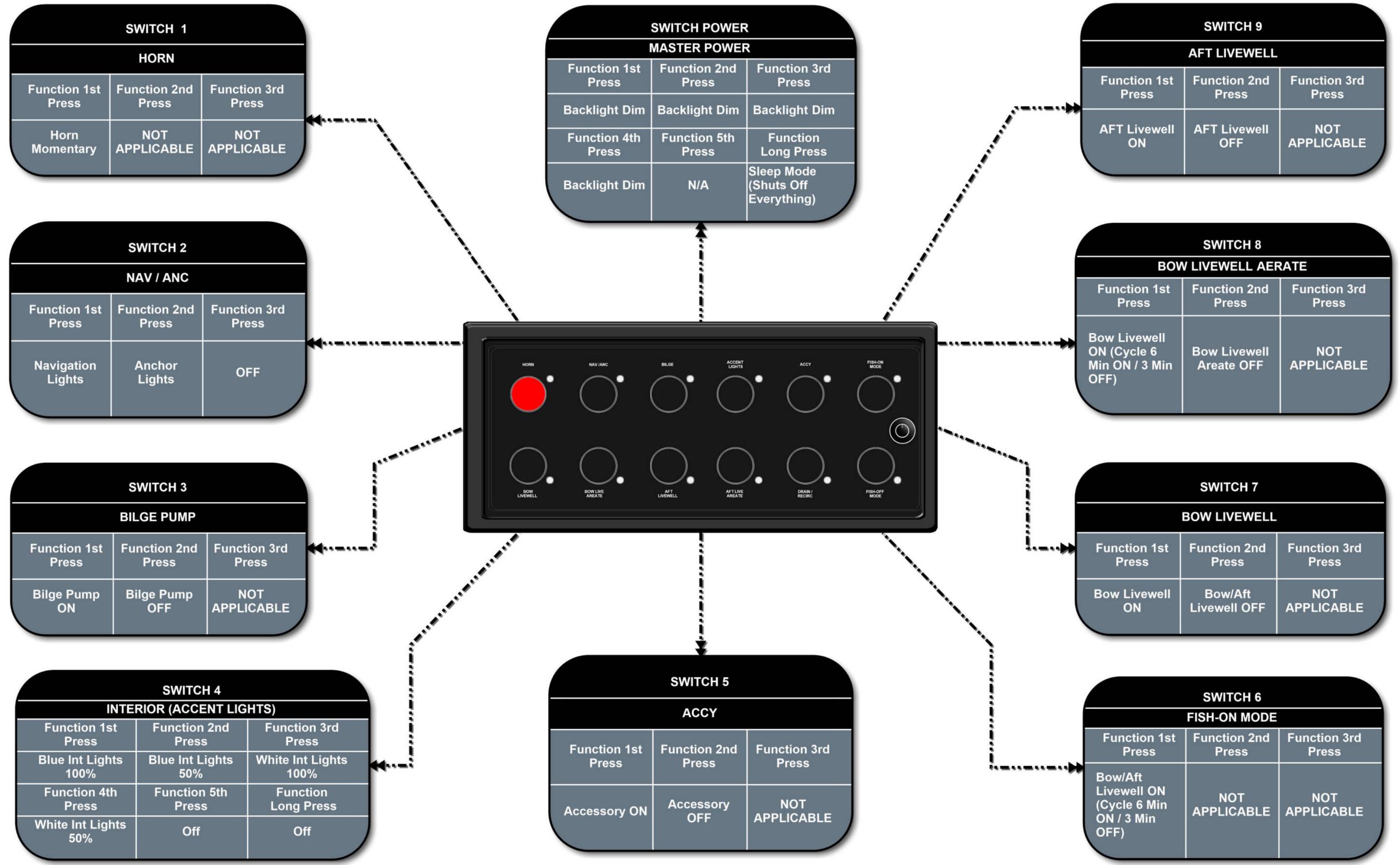
FUSE HOLDER 1		
POSITION	DESCRIPTION	FUSE
1	N2K POWER	3 AMP

CONNECTOR - B		
CHANNEL	DESCRIPTION	FUSE
1	NAVIGATION LIGHT	2 AMP
2	ANCHOR LIGHT	2 AMP
3	-----	----
4	-----	----
5	-----	----
6	SYSTEM GROUND	5 AMP
7	SYSTEM GROUND	5 AMP
8	-----	----
9	-----	----
10	-----	----

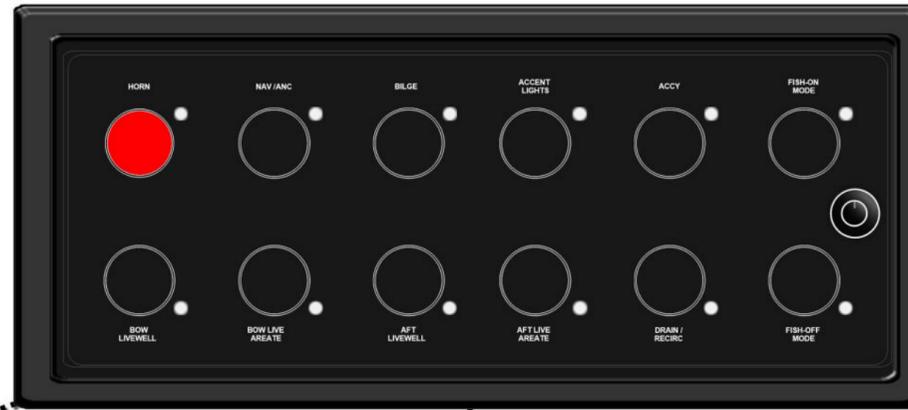
**DDS CONNECTOR A
DT06-12SA
W.LOCK
(10) 14-16GA Sockets F
(2) Cavity Plugs**



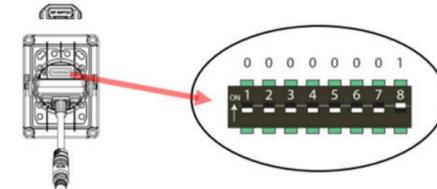
Adventurer and Delta 12 Switch Keypad Function



Adventurer and Delta 12 Switch Keypad Function & Troubleshoot



The example below shows a dipswitch setting of 0000001 where 0 = OFF and 1 = ON



SWITCH 10 AFT LIVEWELL AERATE		
Function 1st Press	Function 2nd Press	Function 3rd Press
Aft Livewell ON (Cycle 6 Min ON / 3 Min OFF)	Aft Livewell Aerate OFF	NOT APPLICABLE

SWITCH 11 DRAIN / RECIRC		
Function 1st Press	Function 2nd Press	Functions 3rd Press
Bow / Aft Livewell OFF Drain / Recirc ON	Bow / Aft Livewell OFF Drain / Recirc OFF	NOT APPLICABLE
Functions 4th Press	Functions 5th Press	Functions 6th Press
NOT APPLICABLE	NOT APPLICABLE	Bow/Aft Livewell OFF, Drain / Recirc ON, (Cycle 3 Min ON / 3 Min OFF)

SWITCH 12 FISH-OFF MODE		
Function 1st Press	Function 2nd Press	Function 3rd Press
Bow / Aft Livewell OFF Drain / Recirc ON (5 Min Timer)	NOT APPLICABLE	NOT APPLICABLE

LED INDICATORS KEYPAD	
COLOR	DESCRIPTION
EXTINGUISHED	CHANNEL OFF
WHITE SOLID ON	CHANNEL ON
1 X WHITE FLASH	MODULE NOT CONNECTED
2 X WHITE FLASH	CONFIGURATION CONFLICT
3 X WHITE FLASH	DIP Switch Conflict
4 X WHITE FLASH	MEMORY FAILURE
5 X WHITE FLASH	NO MODULES DETECTED
6 X WHITE FLASH	FAULT ON OUTPUT
7 X WHITE FLASH	OUTPUT NOT DETECTED

12 SWITCH MEMBRANE KEYPAD DIP SWITCH 00010011	
No Outputs Functioning/No Power	
1) Verify battery negative continuity to ground block no loose or corroded connections.	
2) Verify 30A Breaker is not tripped.	
3) Verify +12VDC at fuse block input on Component Board.	
4) Verify 3A NMEA fuse in fuse block position 1.	
5) Verify NMEA cables/backbone are connected and not damaged.	
6) If all connections are supplying power and NMEA network is on and Keypad is still unresponsive, replace Keypad module.	

STATUS LED INDICATORS DDS	
COLOR	DESCRIPTION
OFF	NO POWER
Solid Green	Normal / OK
Solid Red	Low Voltage
1 Red Flash	Module Not Configured
2 Red Flash	Configuration Conflict
3 Red Flash	DIP Switch Conflict
5 Red Flash	No Modules Detected
7 Red Flash	Over Current / Fuse Blown On Any Configured Output Channel
9 Red Flash	Missing Commander On Any Configured Output Channel



Adventurer and Delta 12 Switch Keypad - DDS Trouble Shooting

12 SWITCH MEMBRANE KEYPAD

Dip Switch: 00010011

1	Verify negative battery continuity to ground block, no loose or corroded connections.
2	Verify 30A Breaker is not tripped.
3	Verify +12VDC at fuse block input on Component Board.
4	Verify 3A NMEA fuse in fuse block position 1.
5	Verify that NMEA cables/backbone are connected and not damaged.

CZone DDS

	Label	Function
1	Next	Cycles through available output channels from left to right. The status output LED will rapidly flash, indicating the selected channel.
2	On	Forces selected channel to ON. If the channel set is an H-Bridge's high-side output, the low-side channel will be turned ON. If the motor is driving a hatch lift, h-Bridge channels are only momentarily turned on for safety.
3	Off	Forces selected channel to OFF.
4	Reset	Restores selected channels to standard operation.

DDS Channel #1 STEREO CONN-A

1	Verify 10A fuse of Channel 1 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 1 of Connector A 12 Pin Deutsch from DDS
4	If +12VDC not present at Pin 1, place the 10A fuse in the bypass state on the DDS to validate output from DDS Pin 1 of Connector A.
5	Verify +12VDC & ground at 12V/USB connection, if present replace 12V/USB component
6	If +12VDC or ground not present at 12V/USB connection, troubleshoot harness other connections/breaks

DDS Channel 2 12V/USB CONN-A

1	Verify 10A fuse of Channel 2 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 2 of Connector A 12 Pin Deutsch from DDS
4	If +12VDC not present at Pin 2, place the 10A fuse in the bypass state on the DDS to validate output from DDS Pin 2 of Connector A.
5	Verify +12VDC & ground at 12V/USB connection, if present replace 12V/USB component
6	If +12VDC or ground not present at 12V/USB connection, troubleshoot harness other connections/breaks

DDS Channel 3 MFD (Multi-Functional Display) CONN-A

1	Verify 10A fuse of Channel 3 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 3 of Connector A 12 Pin Deutsch from DDS
4	If +12VDC not present at Pin 3, place the 10A fuse in the bypass state on the DDS to validate output from DDS Pin 3 of Connector A.
5	Verify +12VDC & ground at MFD connection, if present replace MFD.
6	If +12VDC or ground not present at MFD connection, troubleshoot harness other connections/breaks

DDS Channel 4 Accessory CONN-A

Accessory on Keypad illuminates (circuit on) with no accessory function

1	Verify 10A fuse of Channel 4 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 4 of Connector A 12pin Deutsch from DDS
4	If +12VDC not present at Pin 4, place the 10A fuse in the bypass state on the DDS to validate output from DDS Pin 4 of Connector A.
5	Verify +12VDC & ground at component connection, if present replace component
6	If +12VDC or ground not present at component connection, troubleshoot harness other connections/breaks

DDS Channel 5 Bilge CONN-A

Bilge Pump on Keypad illuminates (circuit on) with no bilge pump function

1	Verify 7.5A fuse of Channel 5 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 5 of Connector A 12pin Deutsch from DDS
4	If +12VDC not present at Pin 5, place the 7.5A fuse in the bypass state on the DDS to validate output from DDS Pin 5 of Connector A.
5	Verify +12VDC & ground at bilge pump connection, if present replace bilge pump.
6	If +12VDC or ground not present at bilge pump connection, troubleshoot harness other connections/breaks

DDS Channel 6 Horn CONN-A

Horn on Keypad illuminates (circuit on) with no horn function

1	Verify 5A fuse of Channel 6 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 6 of Connector A 12pin Deutsch from DDS
4	If +12VDC not present at Pin 6, place the 5A fuse in the bypass state on the DDS to validate output from DDS Pin 6 of Connector A.
5	Verify +12VDC & ground at horn connection, if present replace horn.
6	If +12VDC or ground not present at horn connection, troubleshoot harness other connections/breaks

DDS Channel 7 Bow Livewell Pump CONN-A

Bow Livewell Pump on Keypad illuminates (circuit on) with no pump function

1	Verify 5A fuse of Channel 7 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 7 of Connector A 12pin Deutsch from DDS
4	If +12VDC not present at Pin 7, place the 5A fuse in the bypass state on the DDS to validate output from DDS Pin 7 of Connector A.
5	Verify +12VDC & ground at bow livewell pump connection, if present replace bow livewell pump.
6	If +12VDC or ground not present at bow livewell pump connection, troubleshoot harness other connections/breaks



Adventurer and Delta 12 Switch Keypad - DDS Trouble Shooting

DDS Channel 8 Aft Livewell Pump CONN-A	
Aft Livewell Pump on Keypad illuminates (circuit on) with no pump function	
1	Verify 5A fuse of Channel 8 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 8 of Connector A 12pin Deutsch from DDS
4	If +12VDC not present at Pin 8, place the 5A fuse in the bypass state on the DDS to validate output from DDS Pin 8 of Connector A.
5	Verify +12VDC & ground at aft livewell pump connection, if present replace aft livewell pump.
6	If +12VDC or ground not present at aft livewell pump connection, troubleshoot harness other connections/breaks

DDS Channel 9 Drain/Aerate Pump CONN-A	
Drain Pump on Keypad illuminates (circuit on) with no pump function	
1	Verify 5A fuse of Channel 9 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 9 of Connector A 12pin Deutsch from DDS
4	If +12VDC not present at Pin 9, place the 5A fuse in the bypass state on the DDS to validate output from DDS Pin 9 of Connector A.
5	Verify +12VDC & ground at drain/aerate pump connection, if present replace drain/aerate pump.
6	If +12VDC or ground not present at drain/aerate pump connection, troubleshoot harness other connections/breaks

DDS Channel 10 Push Button Lights CONN-A	
1	Verify 5A fuse of Channel 10 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 10 of Connector A 12pin Deutsch from DDS
4	If +12VDC not present at Pin 10, place the 5A fuse in the bypass state on the DDS to validate output from DDS Pin 10 of Connector A.
5	Verify +12VDC & ground at push button light connection, if present replace push button light.
6	If +12VDC or ground not present at push button light connection, troubleshoot harness other connections/breaks

DDS Channel 11 Navigation Light CONN-A	
Navigation Light on Keypad illuminates (circuit on) with no light	
1	Verify 2A fuse of Channel 11 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 1 of Connector B 12pin Deutsch from DDS
4	If +12VDC not present at Pin 1, place the 2A fuse in the bypass state on the DDS to validate output from DDS Pin 1 of Connector B.
5	Verify +12VDC & ground at navigation light connections, if present replace navigation lights.
6	If +12VDC or ground not present at navigation light connection, troubleshoot harness other connections/breaks

DDS Channel 12 Anchor Light CONN-A	
Anchor Light on Keypad illuminates (circuit on) with no light	
1	Verify 2A fuse of Channel 12 of DDS is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 2 of Connector B 12pin Deutsch from DDS
4	If +12VDC not present at Pin 2, place the 2A fuse in the bypass state on the DDS to validate output from DDS Pin 2 of Connector B.
5	Verify +12VDC & ground at anchor light connection, if present replace anchor light.
6	If +12VDC or ground not present at anchor light connection, troubleshoot harness other connections/breaks

DDS Channel 8 and 10 Blue Accent Light CONN-B	
Blue Accent Light on Keypad illuminates with no light	
1	1) Verify 5A fuse in Channel 13 and 14 is functional
2	2) Verify battery negative continuity to ground block no loose or corroded connections
3	3) Verify + 12VDC at Pin 8 and 10 of Connector B 12pin Deutsch from DDS
4	4) Verify +12VDC & ground at the light connections if present replace light
5	5) If +12VDC or ground not present at the light connection, troubleshoot harness other connections/breaks

DDS Channel 8 and 11 Blue White Accent Light CONN-B	
White Accent Light on Keypad illuminates with no light	
1	Verify 5A fuse in Channel 13 and 14 is functional
2	Verify battery negative continuity to ground block no loose or corroded connections
3	Verify + 12VDC at Pin 8 and 10 of Connector B 12pin Deutsch from DDS
4	Verify +12VDC & ground at the light connections if present replace light
5	If +12VDC or ground not present at the light connection, troubleshoot harness other connections/breaks

30 Amp Manual Reset (Switchable) Breaker	
1	If open, remove ring terminal from DDS, reset breaker, and pay attention for overheating faulty breaker

HELM / BOW MFD- CZone Switching	
HELM MFD DIP SWITCH: 1000000 / HELM MFD 2 1100000 / BOW DIP MFDSWITCH: 00100000	
MFD Not Populating CZone Switching	
1	Verify that all components necessary (MFD, C6+, Keypad, Keyfob) are on the N2k network.
2	Verify that MFD software has not been updated recently. CZone switching was verified with that software, and later versions may not support CZone similarly.
3	Verify that the correct dip switch settings are selected for the corresponding MFD.

MULTI-FUNCTION DISPLAY (MFD) COMPATIBILITY

BRAND	MODEL	DISPLAY SIZE					
		16"	19"	24"	16"	22"	24"
SIMRAD	NSO evo3 / 3S	16	19	24			
	NSO evo3 / 3S	7	9	12	16		
	GO	5	7	9	12		
B&G	Zeus 3s Glass Helm	16	19	24			
	Zeus 3s	7	9	12	16		
	Vulcan	5	7	9	12		
LOWRANCE	HDS Live	7	9	12	16		
	Elite FS	7	9				
Garmin	GPSMAP 8600	10	12	16	17	22	24
	GPSMAP 8400	10	12	16	17	22	24
	GPSMAP X2	10	12				
	GPSMAP X3	7	9	12			
	Echomap Ultra	10	12				
Raymarine	Axiom	7	9	12			
	Axiom +	7	9	12			
	Axiom Pro	9	12	16			
	Axiom XL	16	19	22	24		
Humminbird	Apex	13	16	19			
	Solix	10	12	15			

MFD TROUBLE SHOOTING

MFD Not Populating Czone Switching

HELM MFD Dipswitch: 1000000

MFD TROUBLE SHOOTING

Helm 2 MFD Dipswitch

HELM MFD Dipswitch: 1100000

MFD TROUBLE SHOOTING

Bow MFD Dipswitch

BOW MFD Dipswitch: 0010000