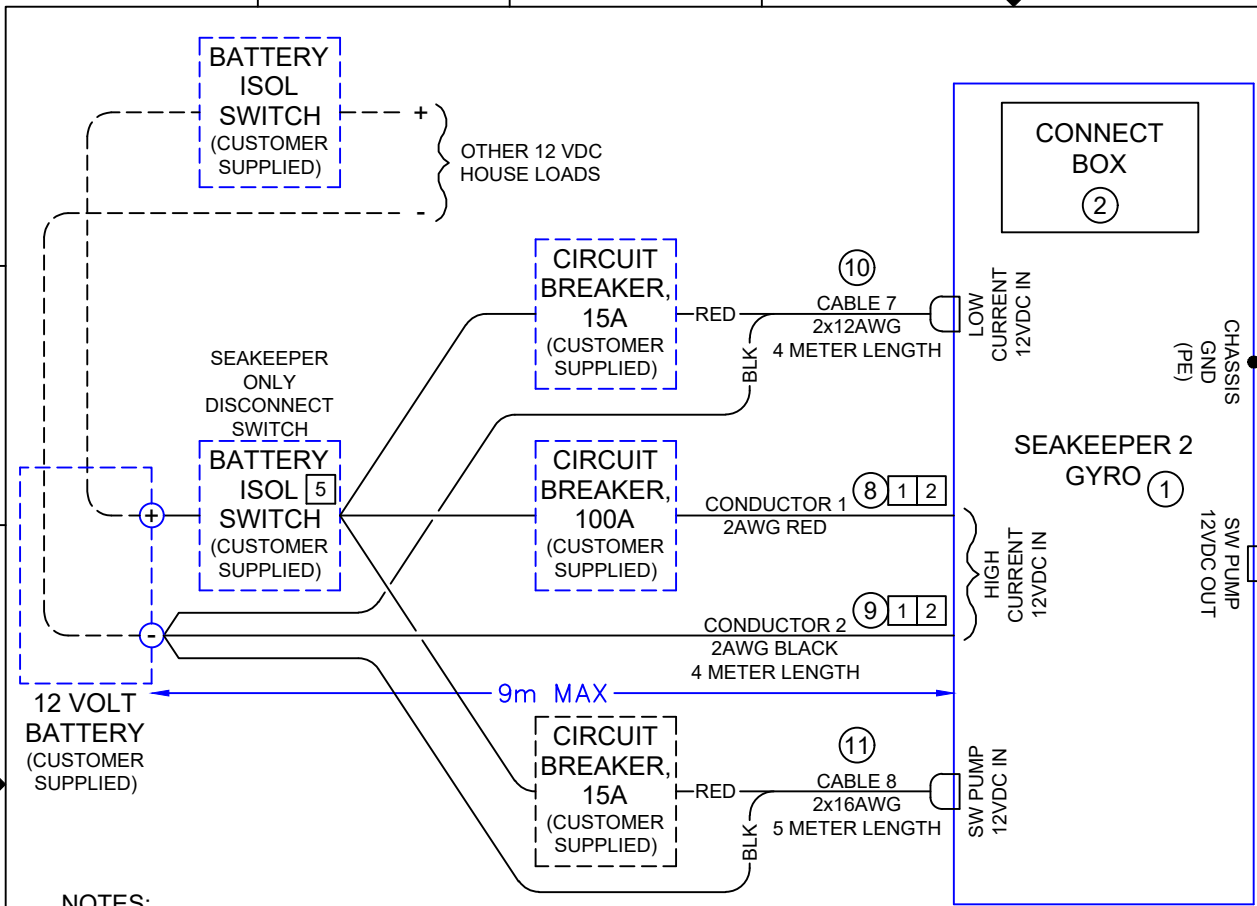


REVISIONS				
REV	ECN NO.	ZONE	DESCRIPTION	DATE
1			1. INITIAL RELEASE.	10APR18

REVISIONS CONT'D ON SH 4



DISPLAY OPTIONS SHOWN ON SHEETS 2 & 3.

NOTES:

- CONDUCTORS TO CONNECT THE HIGH CURRENT DC INPUT POWER (ITEMS 8 & 9) ARE SUPPLIED AS LENGTH 4m. APPROX 1m IS ROUTED ON THE GYRO FRAME. THE LOCATION CHOSEN FOR POWER DISTRIBUTION SHOULD TAKE THIS INTO CONSIDERATION. BIND PLUS (RED) & MINUS (BLACK) CONDUCTORS TOGETHER THROUGHOUT ENTIRE LENGTH AND DO NOT COIL. CONNECT DIRECTLY TO BATTERY TERMINALS THROUGH DEDICATED OVER-CURRENT PROTECTION AND DEDICATED ISOLATION SWITCH. CONDUCTORS 1 & 2 LENGTH MAY BE INCREASED, BUT CHANGING FROM 2AWG TO LARGER WIRE SIZE DOES NOT ALLOW LONGER LENGTH THAN 9m EACH. THE LENGTH LIMIT IS REQUIRED TO LIMIT THE INDUCTANCE FROM THE HIGH CURRENT CONDUCTORS. THIS COMPLIES WITH EN/IEC 60204-1 CLAUSES 12.4 & 12.5, ABYC E-11.14.2, AND USCG 33 CFR 183.430.
- IF CRIMP TERMINAL LUGS ARE REQUIRED FOR 2AWG CONDUCTORS USE PREPARATION & CRIMPING INSTRUCTIONS IN SK2 INSTALLATION MANUAL (90488).
- ETHERNET CONNECTOR ON CONNECTBOX IS FOR ETHERNET CONNECTION TO SEAKEEPER COMPATIBLE MULTI-FUNCTION DISPLAY (MFD) USING M12 D-CODE CABLE (ITEM 13). ADAPTER CABLE MUST BE SELECTED FOR MFD BRAND FROM ITEMS 20-23. SEE SHEETS 2 & 3 FOR WIRING DETAILS.
- DC POWERED SEAWATER PUMP MUST BE PURCHASED FROM SEAKEEPER (ITEM 19) OR CUSTOMER SUPPLIED (ITEM 18, SEE SHEET 4). THE SEAKEEPER 24V DC SEAWATER PUMP, ITEM 19, IS INTENDED FOR 12V OPERATION.
- THE BATTERY ISOLATION SWITCH IS TO BE DEDICATED TO THE SK2 GYRO. A REMOTE BATTERY SWITCH WITH MINIMUM 90 AMP CONTINUOUS CURRENT RATING MAY BE USED.
- CONNECT 4 AWG (25mm²) PE CONDUCTOR TO VESSEL GROUNDING BUS TO COMPLY WITH EN/IEC 60204-1:2016 CLAUSES 6.3.3 & 8.2.3 AND ABYC E-11 JULY 2018 CLAUSES 11.5.2 & 11.16.1.

25	90558	CONNECT BOX REMOTE MOUNT KIT	9	1	OPTIONAL
24	90600	DISPLAY KIT, 5" TOUCHSCREEN, 10m CABLE		1	OPTIONAL
23	20506	ETHERNET ADAPTER CABLE, FURUNO	3	1	OPTIONAL
22	20380	ETHERNET ADAPTER CABLE, RAYMARINE	3	1	OPTIONAL
21	20346	ETHERNET ADAPTER CABLE, SIMRAD	3	1	OPTIONAL
20	20373	ETHERNET ADAPTER CABLE, GARMIN	3	1	OPTIONAL
19	30331	SEAWATER PUMP ASSY, 24 VDC, 13 AMP MAX.		1	OPTIONAL
18		SEAWATER PUMP ASSY, 24 VDC, 13 AMP MAX		1	SHIPYARD
17	30267	CONTACT, SIZE 16, SOLID, GOLD-PLATED MALE (DEUTSCH 0460-202-1631)	11	2	SHIPYARD
16	30115	WEDGELOCK, 2 PIN (DEUTSCH W2P)	11	1	SHIPYARD
15	30113	CONNECTOR, 2 PIN (DEUTSCH DT04-2P)	11	1	SHIPYARD
14		WIRE, MARINE, 4 AWG (25 mm²), GREEN		A/R	SHIPYARD
13	30330	CABLE, M12 D-CODE, FEMALE-MALE, 10m	3	1	SEAKEEPER
12	20334	CABLE ASSY, DC PUMP POWER, 2x16AWG, 5m		1	SEAKEEPER
11	30327	CABLE ASSY, DC PUMP PWR IN, 2x16AWG, 5m		1	SEAKEEPER
10	20248	CABLE ASSY, DC INPUT POWER, 2x12AWG, 5m		1	SEAKEEPER
9	20336	CONDUCTOR, MARINE, 2AWG, BLACK, 4m		1	SEAKEEPER
8	20335	CONDUCTOR, MARINE, 2AWG, RED, 4m		1	SEAKEEPER
7	30246	WATERPROOF CAP, CAN, MALE		1	SEAKEEPER
6	30249	TERMINATOR, CAN, 120 OHM, FEMALE		1	SEAKEEPER
5	30244	TEE ADAPTER, CAN, 3-WAY, F-M-F		1	SEAKEEPER
4	30301	CABLE, CAN, FEMALE-MALE, 0.6m (2 ft)		1	SEAKEEPER
3	30332	CABLE, CAN, FEMALE-MALE, 6m		1	SEAKEEPER
2	20415	CONNECTBOX USER INTERFACE		1	SEAKEEPER
1	90469	SEAKEEPER 2 GYRO ASSEMBLY		1	SEAKEEPER

ITEM	SEAKEEPER PART NO.	DESCRIPTION	QTY	SUPPLY
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WEIGHT-LBS: N/A		MATERIAL:		
DRAWN: A. LUNGER		DATE: 26 SEP 2017		
ENG APPR: S. GOSS		DATE: 26 SEP 2017		
PROD APPR: R. LAWRIE		DATE: 02 OCT 2017		
		TITLE: SEAKEEPER 2 GYRO CABLE BLOCK DIAGRAM		
		DWG NUMBER: 90470		
		REV SHEET NO: 4 1 OF 4		

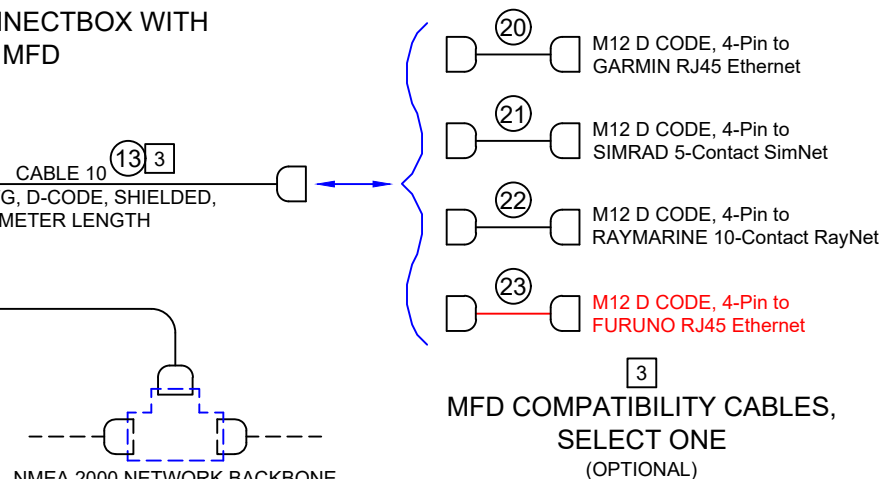
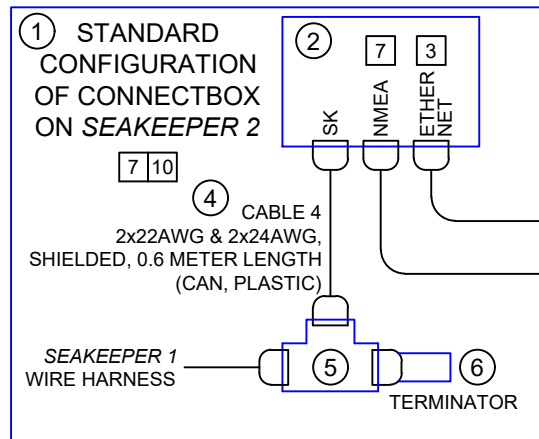
NOTES CONT'D ON SH 2, ZONE 8-F

NOTES: (FROM SH 1, ZONE 5-A)

7 NMEA CONNECTOR ON CONNECTBOX IS FOR REQUIRED CONNECTION TO VESSEL'S NMEA 2000 NETWORK. AN ACTIVE NMEA 2000 COMPATIBLE GPS SIGNAL IS REQUIRED ON THE VESSEL'S NETWORK FOR SEAKEEPER OPERATION. IF NO GPS SIGNAL IS DETECTED A WARNING WILL BE PRESENT ON THE SEAKEEPER APP.

8 EITHER A SEAKEEPER 5" DISPLAY OR A CONNECTION TO SEAKEEPER COMPATIBLE MFD IS REQUIRED.

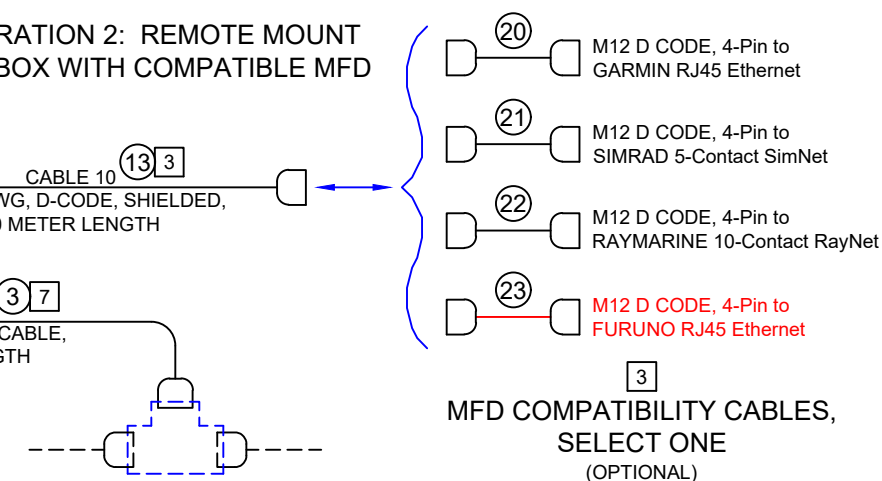
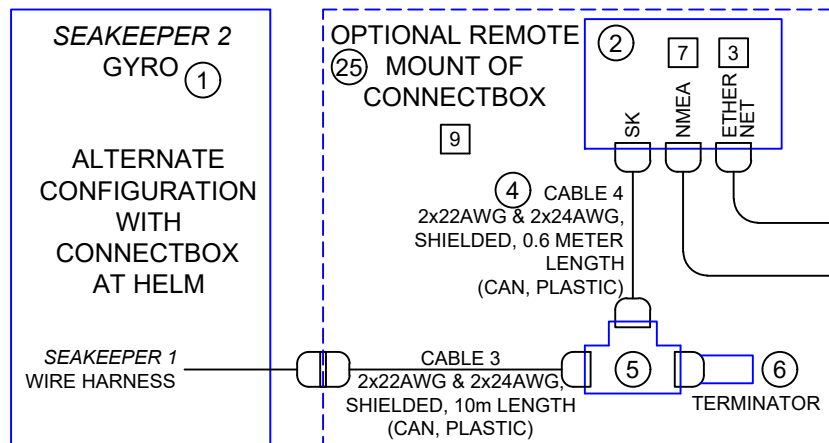
CONFIGURATION 1: CONNECTBOX WITH COMPATIBLE MFD



9 CONNECTBOX MAY BE REMOTE MOUNTED WITH ANY DISPLAY CONFIGURATION USING REMOTE MOUNT KIT, ITEM 25.

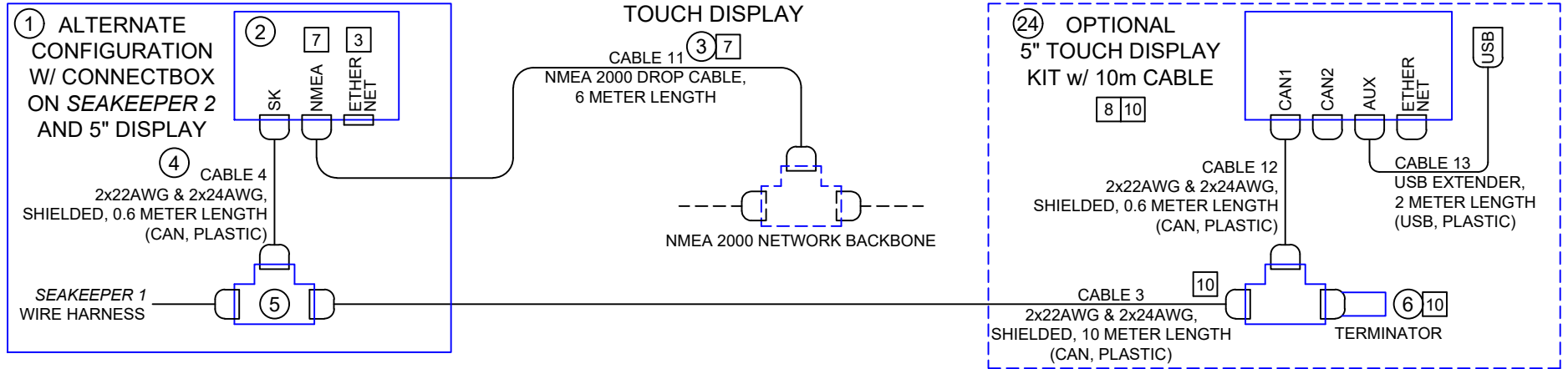
NOTES CONT'D ON SH 3, ZONE 8-A.

CONFIGURATION 2: REMOTE MOUNT CONNECTBOX WITH COMPATIBLE MFD

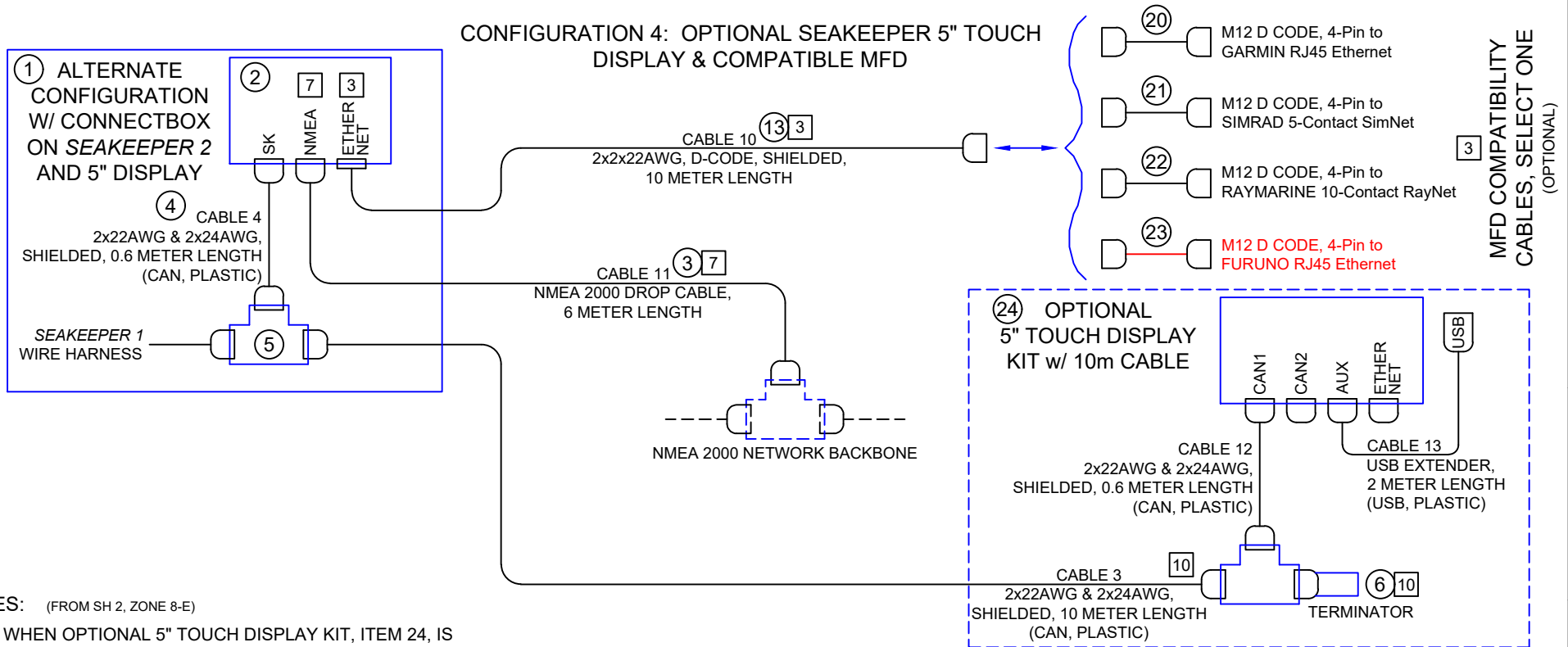


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DRAWN: A. LUNGER		DATE: 26 SEP 2017	
ENG APPR: S. GOSS		DATE: 26 SEP 2017	
PROD APPR: R. LAWRIE		DATE: 02 OCT 2017	
WEIGHT-LBS: N/A		MATERIAL: N/A	
TITLE: SEAKEEPER 2 GYRO CABLE BLOCK DIAGRAM		DWG NUMBER: 90470	
REV: 4		SHEET NO: 2 OF 4	

CONFIGURATION 3: OPTIONAL SEAKEEPER 5" TOUCH DISPLAY



CONFIGURATION 4: OPTIONAL SEAKEEPER 5" TOUCH DISPLAY & COMPATIBLE MFD



NOTES: (FROM SH 2, ZONE 8-E)

- 10 WHEN OPTIONAL 5" TOUCH DISPLAY KIT, ITEM 24, IS USED, EXTEND THE CANbus WITH 10m CABLE FROM KIT, AND MOVE TERMINATOR, ITEM 6, TO END OF CANbus.

NOTES CONT'D ON SH 4, ZONE 8-F.

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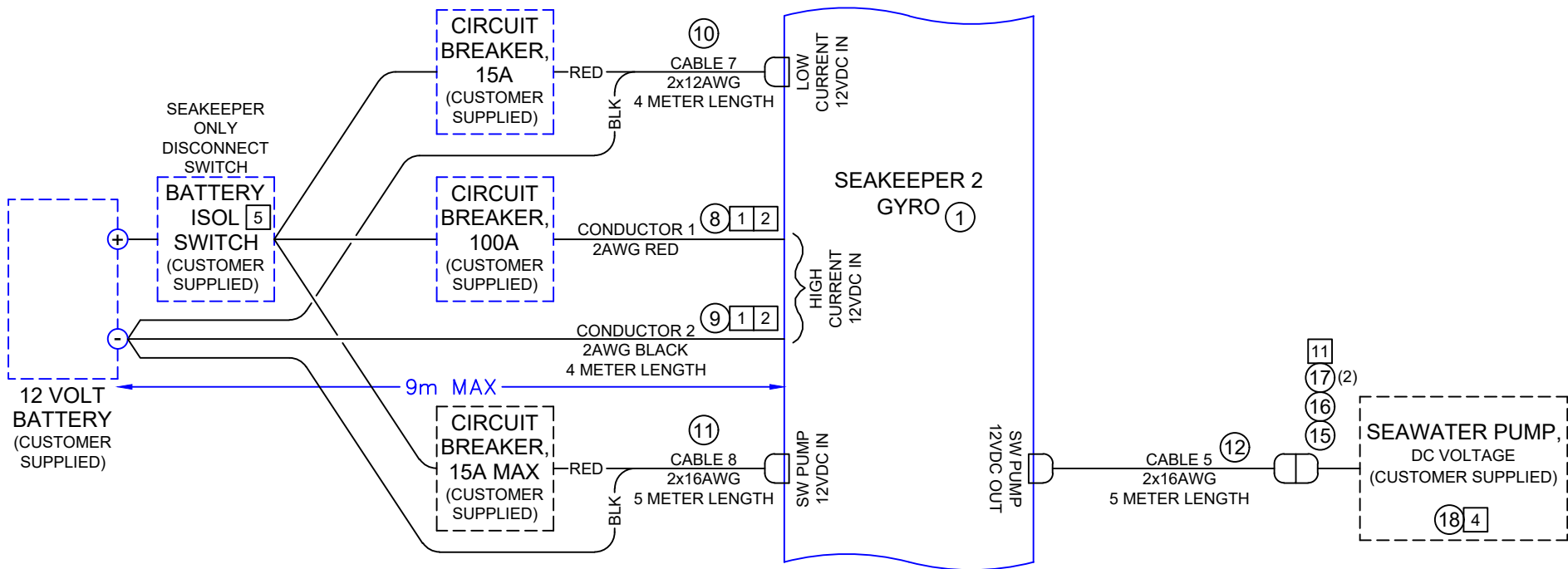
SEAKEEPER
45310 ABELL HOUSE LANE, SUITE 350, CALIFORNIA, MD 20619
TITLE: SEAKEEPER 2 GYRO CABLE BLOCK DIAGRAM

WEIGHT-LBS: N/A
MATERIAL: N/A
DRAWN: A. LUNGER
ENG APPR: S. GOSS
PROD APPR: R. LAWRIE
DATE: 26 SEP 2017
DATE: 26 SEP 2017
DATE: 02 OCT 2017

DWG NUMBER: 90470
REV: 4
SHEET NO: 3 OF 4

NOTES: (FROM SH 3, ZONE 8-A)

- 11 ALTERNATE SEAWATER PUMP CONFIGURATION FOR CUSTOMER SUPPLIED 12VDC POWERED SEAWATER PUMP (ITEM 18), 15 AMPS MAXIMUM. OVER-CURRENT PROTECTION ON CABLE 8 MUST BE SELECTED FOR PUMP RATING. INSTALL CONNECTOR PARTS, ITEMS 15-17, ON SEAWATER PUMP LEADS WITH CRIMP TOOL, DEUTSCH HDT-48-00 OR HDT-1561; PIN 1 TO +V AND PIN 2 TO -V.



REVISIONS					
REV	ECN NO.	ZONE	DESCRIPTION	DATE	APPROVED
2		SH2	1. CHANGED ITEM 11 DC SEAWATER PUMP TO OPTIONAL SOURCE AND ADDED PART NUMBER. 2. ADDED ITEM 17 DC POWER INPUT CABLE ASSY FOR DC SEAWATER PUMP WITH CUSTOMER SUPPLIED CIRCUIT BREAKER. 3. ADDED ITEM 18 ALTERNATE DC SEAWATER PUMP ON NEW SHEET 3. 4. ADDED ITEMS 19-22 AND ETHERNET CONNECTION DETAIL ON SHEET 3.	30JUL20	W.GARZON
3		SH2 P/L SH 2 & 3	1. REMOVED EYELET TERMINAL CRIMP INSTRUCTIONS & REMOTE BATTERY SWITCH DETAIL FROM SHEET 2. 2. ADDED CONNECTBOX, 6m CAN CABLE, & REMOTE MOUNT KIT AS ITEMS 2, 3, & 24. CHANGED 5" DISPLAY TO OPTIONAL AS ITEM 23. 3. EXPANDED CONNECTBOX, 5" DISPLAY, & ETHERNET CONNECTION DETAILS ON SHEETS 2 & 3.	19MAY21	D.FRORIEP
4		SH 2 & 3 P/L	1. ADDED ITEM 23 TO P/L AND ETHERNET CONNECTION DETAILS. 2. CHANGED 5" DISPLAY TO ITEM 24 AND CHANGED CONNECTBOX REMOTE MOUNT KIT TO ITEM 25.	09SEP21	-

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TITLE SEAKEEPER 2 GYRO CABLE BLOCK DIAGRAM

DWG NUMBER 90470

REV 4 SHEET NO. 4 OF 4

WEIGHT-LBS: N/A
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