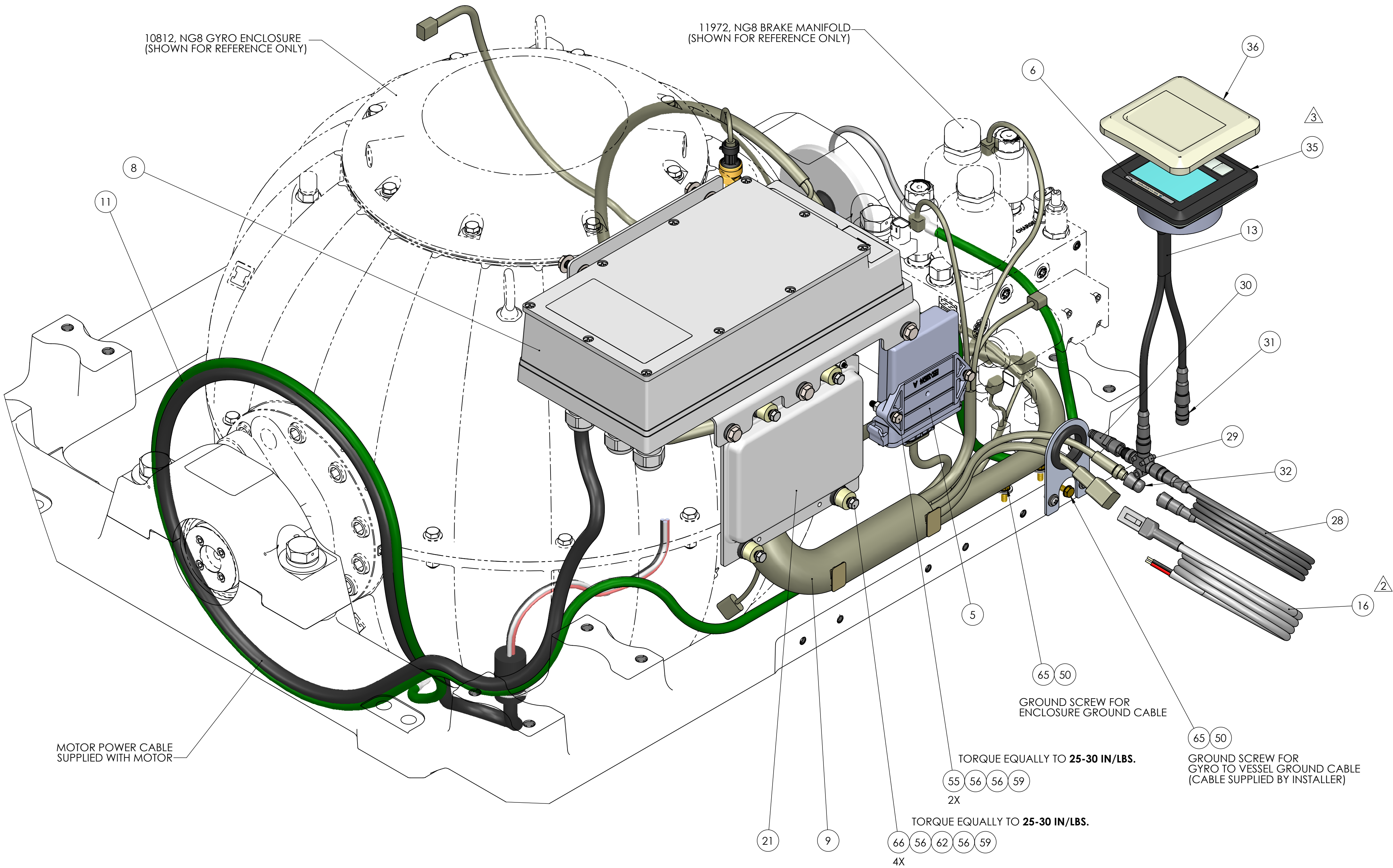


- NOTES:
- 1) THIS DWG. REPRESENTS A SUB-GROUP OF COMPONENTS WITHIN THE NG9 ELECTRONICS SYSTEM BILL OF MATERIAL AND DOES NOT NECESSARILY REPRESENT THE ACTUAL ASSEMBLY PROCEDURE. THIS DWG DOES PROVIDE TECHNICAL INFORMATION REGARDING COMPONENT LOCATION, SUGGESTED WIRE HARNESS ROUTING, AND FASTENER APPLICATION.
- 2) ITEMS SHOWN IN PHANTOM ARE FOR REFERENCE ONLY. THESE REFERENCE ITEMS ARE PART OF OTHER SUB-GROUPS AND ARE DISPLAYED IN THIS DWG TO SHOW WIRE HARNESS CONNECTION POINTS.



REV.	ECN NO.	ZONE	DESCRIPTION	DATE	APPROVED
1	0174		RELEASED FOR PRODUCTION	3/6/2014	RSK
2	0204		ADDED ITEM 18 TO BILL OF MATERIAL	7/23/2014	RSK
3	0218		UPDATED GYRO CONTROL DISPLAY AND SUNCOVER	2/9/2015	RSK
4	0274		THRU BOLTED MOTOR DRIVE BOX BRACKET TO FRAME CROSSBAR	4/27/2015	RSK
5	0323		SEAKEEPER BRANDING CHANGE	5/18/2015	SAC

68	70061	THERMAL JOINT COMPOUND - WAKEFIELD TYPE 120	---	AR	
67	70054	THREAD LOCKER, LOCTITE #243, BLUE	---	AR	
66	60335	SCREW, HEX HD CAP M6-1.0 X 40MM FULL TD	316 SS	4	-
65	60278	HEX HD CAP SCREW,M6-1.0 X 16mm LG, FULL THREAD	BRASS	5	-
64	60276	INTERNAL TOOTH LOCK WASHER, 5/16" SCREW SIZE	BRONZE	1	-
63	60267	HEX NUT, NYLOK M8-1.2 SS	316 SS	2	-
62	60260	STAND OFF, NYLON, .31X.75X.5	NYLON	4	-
61	60259	BTN SKT HD MACHINE SCREW M5-.8 X 12mm LG	18-8 SS	3	-
60	60256	HHCS M6-1.0 X 16mm LG	316 SS	4	-
59	60255	HEX NUT, NYLOK M6-1.0	316 SS	6	-
58	60247	HEX HD CAP SCREW M8-1.25 X 40mm LG 316SS	316SS	2	-
57	60246	HEX HD CAP SCREW M8-1.25 X 20mm LG. 316SS	316SS	5	-
56	60223	FLAT WASHER M6 SCREW SIZE	316 SS	16	-
55	60222	HHCS M6-1.0 X 35mm LG FULL THREAD	316 SS	2	-
54	60177	SCREW, PHILLIPS HD PAN 8-32 X 0.63	18-8 SS	2	-
53	60162	FLAT WASHER, #8	316 SS	4	-
52	60161	NUT, NYLOCK HEX 8-32	18-8 SS	2	-
51	60105	SCREW, SOCKET HD CAP 10-24 X 2.0 GRD8	BLK OXIDE STL	8	-
50	60097	INTERNAL TOOTH LOCK WASHER, 1/4"	BRONZE	5	-
49	60087	SCREW, PHILLIPS HD PAN 8-32 X 0.38	18-8 SS	1	-
48	60061	PAN HD MACHINE SCREW 10-24 X .50 LG	18-8SS	2	-
47	60038	FLAT WASHER, M4	18-8 SS	2	-
46	60037	SPRING LOCK WASHER, M4	18-8 SS	2	-
45	60036	BUTTON SKT HD CAP SCREW, M4-.7 X 20MM LG	18-8 SS	2	-
44	60034	SKT HD CAP SCREW, M4-.7 X 16mm LG. SS	18-8 SS	2	-
43	60033	FLAT WASHER #10	316SS	5	-
42	60015	WASHER, HI COLLAR LOC #10	ALLOY STEEL	8	-
41	60003	WASHER, FLAT TYPE B NARROW 0.31	316 SS	9	-
40	40367	GROMMET, PUSH IN 1-1/4 ID X 3/32 PANEL THKNSS.	SBR RUBBER	1	-
39	40366	MOTOR DRIVE COVER LABEL	ANODIZED ALUM.	1	-
38	40271	CLICK BOND CABLE TIE ANCHOR,TRANSVERSE BASE	COMP	2	-
37	40250	SILI-THANE 803 MARINE SEALANT	---	AR	
36	30269	SEAKEEPER DISPLAY SUNCOVER	---	1	-
35	30268	SEAKEEPER CONTROLLER DISPLAY	---	1	-
34	30255	RING TERMINAL, 16-14 GA SIZE #8 INSULATED, BLUE	---	1	-
33	30254	RING TERMINAL, 12-10 GA SIZE #8 INSULATED,YELLOW	---	1	-
32	30247	AMPHENOL LTW PLASTIC CAP, FEMALE	---	1	-
31	30246	AMPHENOL LTW PLASTIC CAP, MALE	---	1	-
30	30245	TERMINATOR, NMEA 2000 MICRO, 120OHM FEMALE	PLASTIC	1	-
29	30244	DISPLAY CABLE T- ADAPTOR	---	1	-
28	30243	CABLE, MALE/FEMALE, NMEA 2000 PLASTIC MICRO, 25M LG.	---	1	-
27	30242	FERRULE 12 AWG, .47" PIN LENGTH	---	3	-
26	30241	POWER RELAY	---	1	-
25	30240	FERRULE 14 AWG, .47 PIN LENGTH	---	2	-
24	30239	MARINE GRADE ELECTRICAL CABLE, 14-3 SEAWATER PUMP	---	1	-
23	30236	VACUUM SENSOR, SENSATA 100CP8-17	BRASS	1	-
22	30235	THERMISTOR, GE WTS 1797	316 SS	2	-
21	30234	ECU ASSEMBLY INCLUDING ISOLATION BUSHINGS	---	1	-
20	30197	FERRULE 10 AWG, .47" PIN LENGTH	---	2	-
19	30179	MARINE GRADE ELECTRICAL CABLE, 10-3 AC POWER	---	1	-
18	30011	CABLE TIE ANCHOR CLIP	---	2	-
17	30003	POSITION MARKER	---	1	-
16	20248	GYRO DC INPUT POWER CABLE ASSEMBLY, 5M LG.	---	1	-
15	20232	NG9 FLYWHEEL MOTOR ROTOR	---	1	-
14	20228	GROUND CABLE ASSY, 4 AWG, 13" LG.	---	1	-
13	20223	CANvu 355 DISPLAY INTERFACE CABLE	---	1	-
12	20222	GIMBAL ANGLE SENSOR & CONNECTOR ASSEMBLY	---	1	-
11	20220	GROUND CABLE ASSY, 4 AWG, 90" LG.	---	1	-
10	20219	GROUND CABLE ASSY, 4 AWG, 18" LG.	---	1	-
9	20218	SEAKEEPER 9 GYRO WIRING HARNESS	---	1	-
8	20216	SEAKEEPER MOTOR DRIVE BOX	ALUMINUM	1	-
7	20212	NG9 FLYWHEEL MOTOR STATOR	---	1	-
6	20208	DISPLAY LABEL	---	1	-
5	20206	CAN IMU ASSEMBLY	---	1	-
4	11023	SEAKEEPER 9 ELECTRONICS BASEPLATE	5052 ALUM	1	-
3	11021	SEAKEEPER 9 WIRE BULKHEAD PLATE	.100 ALUM SHT.	1	-
2	10852	SEAKEEPER 9 MOTOR DRIVE BRACKET	5052 ALUM	1	-
1	10832	SEAKEEPER 9 GIMBAL ANGLE SENSOR MOUNT FINISH MACHINED	CAST ALUM	1	-
ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	QTY	NOTE

WEIGHT - LBS:		DATE: 06MAR14		REV. NO. SHEET NO.	
MATERIAL:		SAC		5 1 OF 3	
ENG APPR:		DATE:		DWG NUMBER	
PROD APPR:		DATE:		20217	

SEAKEEPER 9 ELECTRICAL SUB-SYSTEM ASSEMBLY

SEAKEEPER Inc. 44425 Pecan Court, Suite 151 California, MD 20619

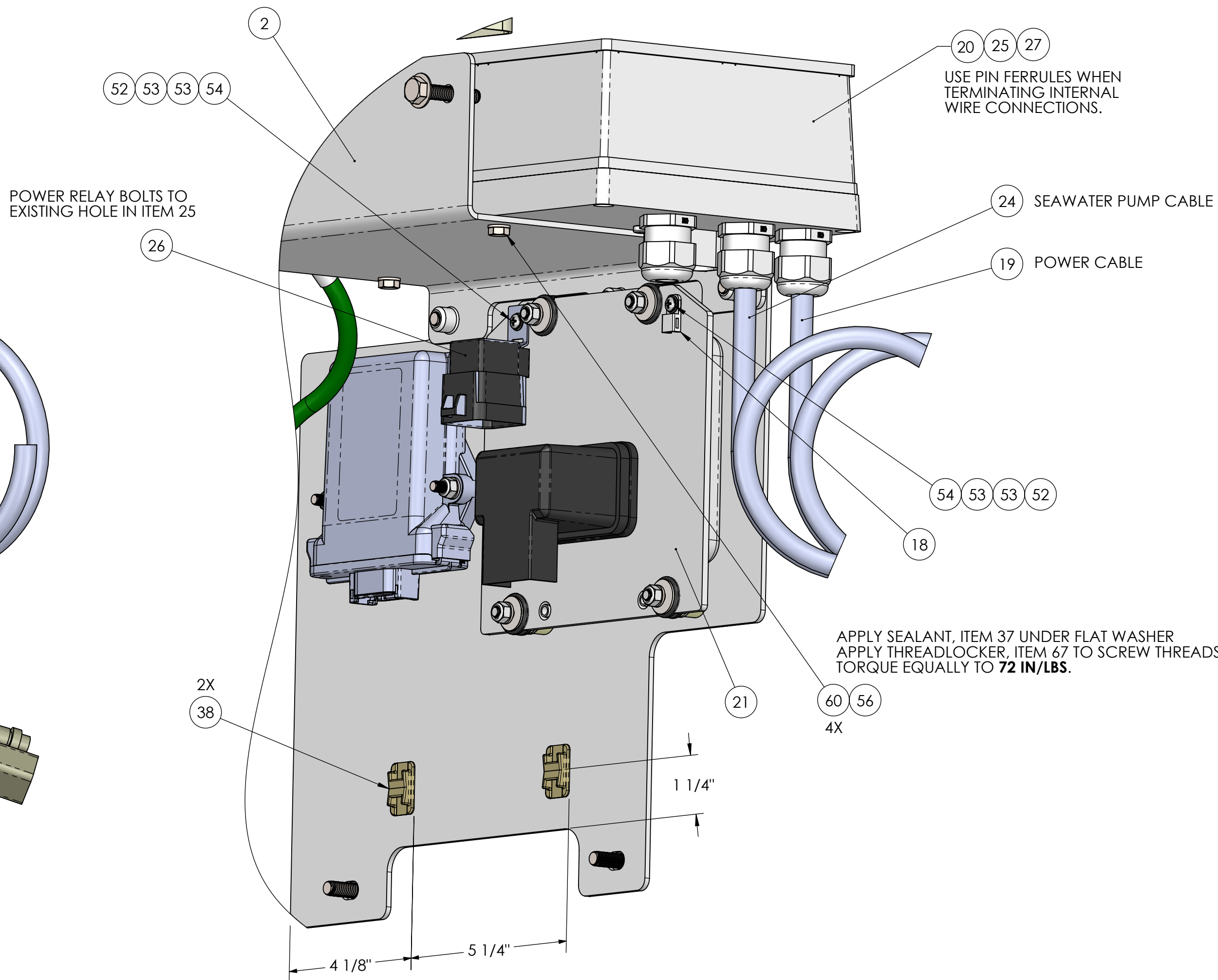
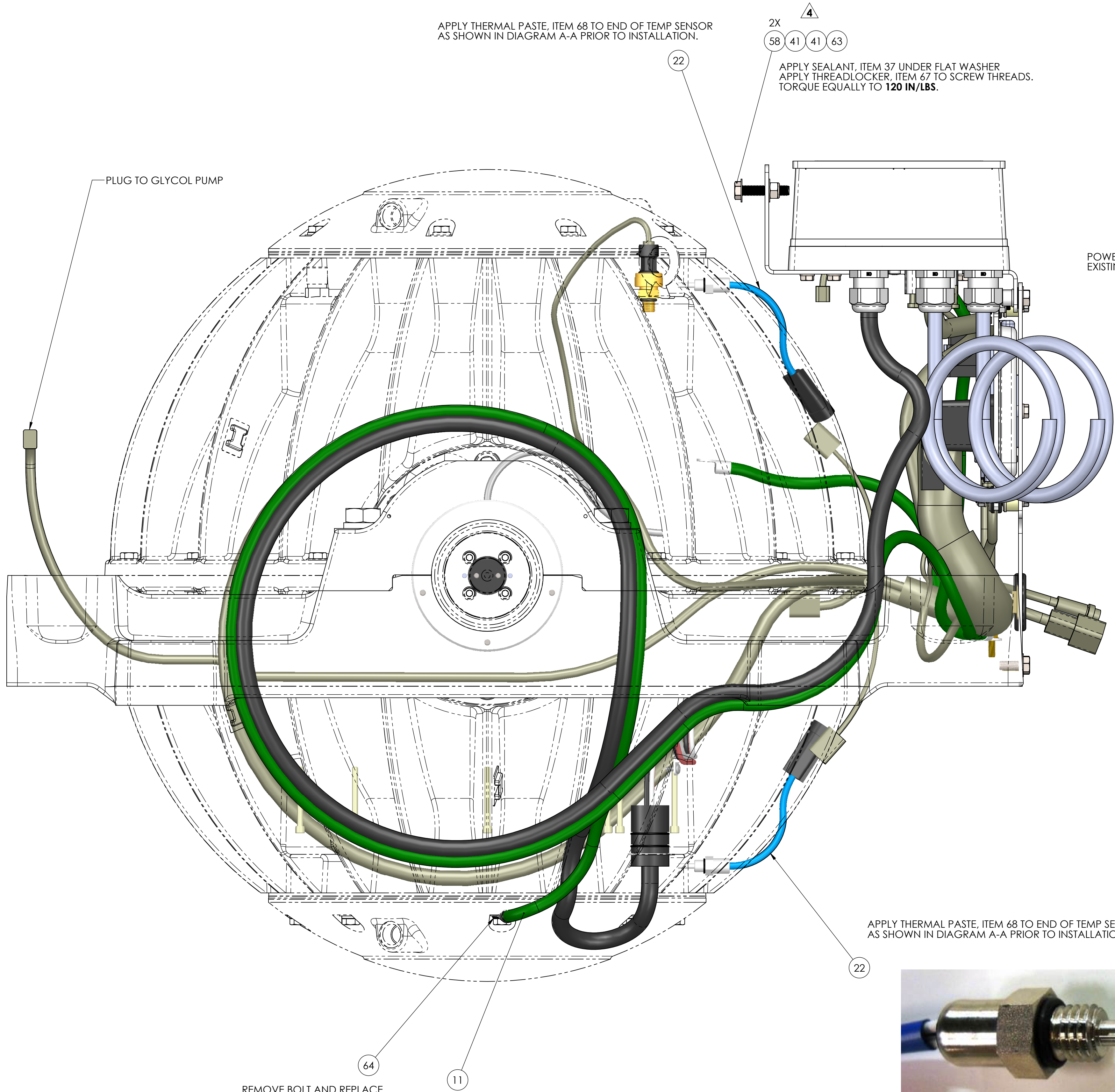


DIAGRAM A-A

REMOVE BOLT AND REPLACE
FLAT WASHER WITH ITEM 64.
ATTACH GROUND CABLE LUG
TO WATER JACKET COVER.
RE-APPLY LOC-TITE ITEM 67 AND
RE-TORQUE BOLT TO **120 IN/LBS.**

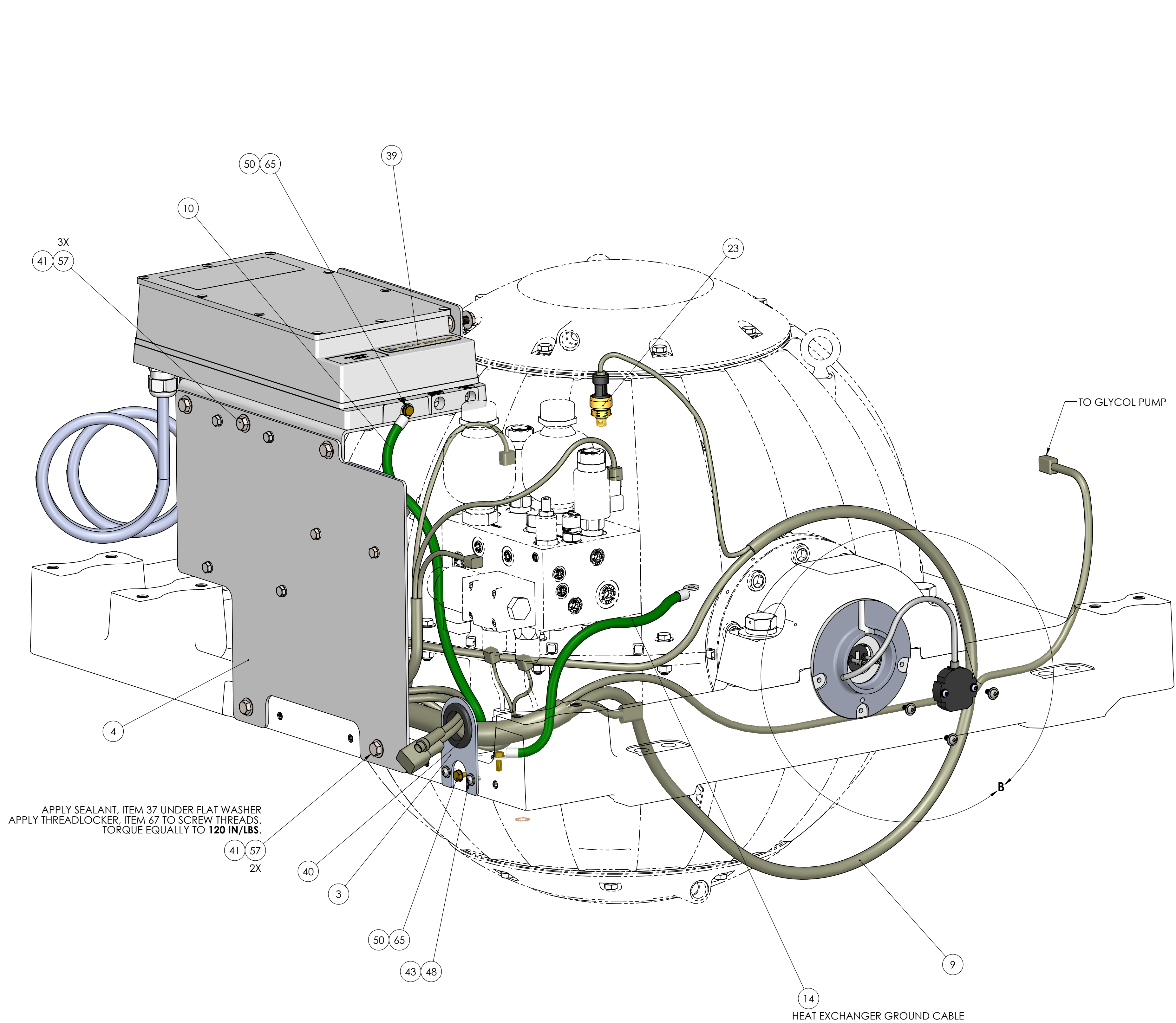
APPLY THERMAL PASTE, ITEM 68 TO END OF TEMP SENSOR
AS SHOWN IN DIAGRAM A-A PRIOR TO INSTALLATION.

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DRAWN: SAC DATE: 06MAR14
ENG APPR: DATE:
PROD APPR: DATE:

NAME: SEAKEEPER 9 ELECTRICAL SUB-
SYSTEM ASSEMBLY
DWG NUMBER: 20217
REV. NO. | SHEET NO.: 5 | 2 OF 3



APPLY SEALANT, ITEM 37 UNDER FLAT WASHER.
APPLY THREADLOCKER, ITEM 67 TO SCREW THREADS.
TORQUE EQUALLY TO 120 IN/LBS.

APPLY THREADLOCKER, ITEM 67 TO
SCREW THREAD. SNUG LIGHTLY

APPLY THREADLOCKER, ITEM 67 TO
SCREW THREAD. SNUG LIGHTLY

DETAIL B
SCALE 1 : 1.5