- NOTES: 1) THIS DRAWING REPRESENTS A SUB-GROUP OF COMPONENTS WITHIN THE SEAKEEPER 16 ELECTRONICS SYSTEM BILL OF MATERIAL AND DOES NOT NECESSARILY REPRESENT ANY ACTUAL ASSEMBLY PROCEDURE. THIS DRAWING DOES PROVIDE TECHNICAL INFORMATION REGARDING COMPONENT LOCATION, SUGGESTED WIRE HARNESS ROUTING, AND FASTENER APPLICATION.
 - 2) ITEMS SHOWN IN PHANTOM ARE FOR REFERENCE ONLYAND ARE DISPLAYED TO SHOW WIRE HARNESS CONNECTIONS.
 - 3) SOME ITEMS SHOWN ARE FOR BILL OF MATERIAL REFERENCE ONLY AND MAY NOT GET ASSEMBLED TO GYRO UNTIL INSTALLATION, THESE ITEMS WILL SHIP SEPARATELY.

(7RINI) AWAY PAINI SO THAT CABLETUG CONTACTS BARE METAL.	APPLY THREAD LOCKER TO SCREW THEADS, TORQUE TO 120 IN/LBS.
	SUNCOVER IS FURNISHED WITH DISPLAY REPLACEMENT PART #30299-SP

REV.	ECN NO.	ZONE	DESCRIPTION	DATE	APPROVED
1	0178		RELEASED FOR PRODUCTION	9/24/2014	WED
2	0248		GYRO CONTROLLER DISPLAY AND SUNCOVER WAS UPGRADED	4/06/2015	RSK
3	0324		SEAKEEPER LOGO REBRANDING	6/8/2015	SAC
4	0449		GROUND CABLES CHANGED SIZE FROM 4AWG TO 10AWG, REMOVED INTERNAL TOOTH LOCK WASHER FROM UNDER GROUND LUG	10/10/2016	SAC
5	0497	B5, SHT 2	O-RINGS AND RETAINER CLIP FOR MOTOR FEEDTHRU WAS ADDED TO BOM LIST, NOW SUPPLIED BY SEAKEEPER	2/3/2017	SAC
6	0480		SENSATA BRAND VACUUM SENSOR WAS REPLACED WITH WASCO BRAND SENSOR	4/11/2017	SAC
7	0525		ECU #30234 WAS REPLACED WITH A PROGRAMABLE VERSION WITH SECURITY FEATURES, #30302	5/17/2017	SAC
8	0521		NEW 5" TOUCH SCREEN DISPLAY IS NOW FURNISHED WITH GYRO	10/16/2017	SAC
9	0700, 0718		REPLACED 30247 WITH 30246, ADDED MISSING SCREWS (60036). IMU 1 REPLACED BY IMU 2.	1/29/2019	EMS

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EM NO.	PART NO.	DESCRIPTION	MATERIAL	QTY.	NOTE	+
1	11050	SEAKEEPER 16 ELECTRICAL COMPONENT PANEL SEAKEEPER 16 ANGLE SENSOR MOUNT FINISH MACHINED	CAST ALUM	1		+
2	11109	SEAKEEPER 16 MOTOR DRIVE BOX MOUNT SEAKEEPER 16 ELECTRICAL COMPONENT PANEL	.18 ALUM. SHEET	1		+
3	11165 11109	SEAKEEPER 16 CABLE BULKHEAD PLATE SEAKEEPER 16 MOTOR DRIVE BOX MOUNT	.100 ALUM SHT.	1 1		+
5	20213	SEAKEEPER 16 FLYWHEEL MOTOR, STATOR ASSEMBLY	100 ALLEA CUT	1		-
6	20216	SEAKEEPER MOTOR DRIVE BOX	ALUMINUM	1		_
7	20222	GIMBAL ANGLE SENSOR & CONNECTOR ASSEMBLY		1		
8	20248	GYRO DC INPUT POWER CABLE ASSEMBLY, 5M LG.		1		
9	20249	SEAKEEPER 16 WIRE HARNESS		1		
10	20251	SEAKEEPER 16 SPHERE GROUND CABLE ASSEMBLY, 4 AWG, 69"		1		1
11	20252	SEAKEEPER 16 GROUND CABLE ASSEMBLY, 25-1/2"		1		+
12	20350	SEAKEEPER 16 FLYWHEEL MOTOR, ROTOR ASSEMBLY		1		+
13	20350	CAN IMU VERSION 2		1		+
15 14	30015	SMALL CLICK BOND WIRE TIE ANCHOR POSITION MARKER	COMPOSITE	3		-
16	30016	LARGE CLICK BOND WIRE TIE ANCHOR	COMPOSITE	3		-
17	30179	MARINE GRADE ELECTRICAL CABLE, 10-3 AC POWER		1		_
18	30197	FERRULE 10 AWG, .47" PIN LENGTH		2		
19	30235	THERMISTOR, GE WTS 1797	316 SS	2		
20	30239	MARINE GRADE ELECTRICAL CABLE, 14-3 SEAWATER PUMP		1		_
21	30240	FERRULE 14 AWG, .47" PIN LENGTH		2		1
22	30241	POWER RELAY		1		+
23	30243	FERRULE 12 AWG, .47" PIN LENGTH		3		+
25	30244	CABLE, MALE/FEMALE, NMEA 2000 PLASTIC MICRO, 25M LG.		1		-
26 25	30246 30244	AMPHENOL LTW PLASTIC CAP, MALE DISPLAY CABLE T- ADAPTOR		1		-
27	30249	TERMINATOR, NMEA 2000 MICRO, 1200HM FEMALE	PLASTIC	1		-
28	30254	RING TERMINAL, 12-10 GA SIZE #8 INSULATED, YELLOW		1		_ '
29	30255	RING TERMINAL, 16-14 GA SIZE #8 INSULATED, BLUE		1		
30	30288	VACUUM SENSOR, WASCO	BRASS	1		1
31	30298	5 INCH TOUCH DISPLAY, GYRO CONTROLLER		1		1
32	30300	CABLE, M12 12 PIN MALE TO USB-A RECEPTACLE		1		+
33	30302	CABLE, 2FT. MALE/FEMALE, NMEA 2000 PLASTIC MICRO		1		-
35 34	40107 30302	RETAINING RING, EXTERNAL, 1.25 DIA ECU ASSEMBLY WITH BOOT LOAD SECURITY	\$\$ 	1		_
36	40142	O-RING, SIZE 024 A75 DUROMETER	NOTIV	2		-
37	40208	CABLE TIE MOUNT, PLASTIC, #8 SCREW	PLASTIC	2		-
38	40250	SILI-THANE 803 MARINE SEALANT		AR		_
39	40366	MOTOR DRIVE COVER LABEL	ANODIZED ALUM.	1		
40	40367	GROMMET, PUSH IN 1-1/4 ID X 3/32 PANEL THKNSS.	SBR RUBBER	1		
41	60003	WASHER, FLAT TYPE B NARROW 0.31	316 SS	7		1
42	60017	WASHER, HI COLLAR LOC #10	ALLOY STEEL	8		+
43	60033	SKT HD CAP SCREW, #10-24 X 2.25 LG	ALLOY STEEL	8		+
45	60034	FLAT WASHER #10	18-855 316SS	5		+
46 45	60036	BUTTON SKT HD CAP SCREW, M47 X 20MM LG SCREW, SOCKET HD CAP M47 X 16MM FULL TD	18-8 SS 18-8SS	2		-
47	60037	SPRING LOCK WASHER, M4	18-8 SS	2		_
48	60038	FLAT WASHER, M4	18-8 SS	2		_
49	60087	SCREW, PHILLIPS HD PAN 8-32 X 0.38	18-8 SS	2		
50	60096	WASHER, SPLIT LOC .25 ID	SILICON BRONZE	5		1
51	60223	WASHER, FLAT, M6 12MM OD	316\$\$	16		-
52	60247	HEX HD CAP SCREW M6-1.25 X 20mm LG. 316SS	316\$\$	3		-
54 53	60255 60247	HEX NUT, NYLOK M6-1.0 HEX HD CAP SCREW M8-1.25 X 40mm LG 316SS	316 SS 316SS	6		-
55	60256	HEX HEAD CAP SCREW, M6-1.0 X 16mm LG	316 SS	4		
56	60258	HHCS M6-1.0 X 45mm LG	316 SS	4		
57	60259	BTN SKT HD MACHINE SCREW M58 X 12mm LG	18-8 SS	5		
58	60260	STAND OFF, NYLON, .31X.75X.5	NYLON	4		
59	60267	HEX NUT, NYLOK M8-1.2 SS	316 SS	2		-
	60278	HEX HD CAP SCREW,M6-1.0 X 16mm LG, FULL THREAD	BRASS	5		-
60	00321		316 SS	2		\dashv
62 61 60	70054 60321	THREAD LOCKER, LOC-TITE #243, BLUE SCREW, HEX HD CAP M6-1.0 X 25MM FULL TD		AR		

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MATERIAL:

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SEAKEEPER*

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

NAME:

NAME:

SEAKEEPER 16 ELECTRONICS

SUB-SYSTEM BOM

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