

SEAEYE SM7 INFORMATION

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Service report

The repair of the thruster will be document in our service report.

We will also determine the root cause of the failure if possible and generate statistics using codes.

For a detailed explanation of our root cause code system please [click here](#).

For a sample service report [click here](#).

Functional test

The thruster will be submerged in our 5 cubic meter test tank and connected to our automated tester. The functional test program consists of the following.

- Idle test.
- A sweep from full reverse to full forward.
- A stress test at 84% forward thrust. Standard duration is 5 minutes but can be prolonged upon client request.

For a sample [click here](#).

Pressure test

The standard pressure test is at 30 bars for 1 hour.

For a sample [click here](#).

List of parts replaced during standard service

No.	PN.	Description
- 2.	200007	O ring (1.78*3.69)
- 3.	400-207-4490-74	M6 Dowty washer
- 4.	0445-30	O ring (3*44.5)
- 5.	6200	Radial Ball Bearing
- 6.	200012	O ring (1.78*9.25)
- 7.	200132	O ring (2.62*44.12)
- 8.	200155	O ring (2.62*101.28)
- 9.	3204J	Double row angular contact bearing
- 32.	P02082	Paper filter
- 44,2	400-204-4490-74	M5 dowty washer
- 44,3.	C4400230	Compensator compression spring
- 44,6.	P10432	Compensator diaphragm
- 64.	VASEAL0020	V seal propeller shaft
- Epod		O-ring housing
- Epod		Seal housing

List of parts replaced when needed free of charge

No.	PN.	Description
- 1.	281-451	M5*10 High tensile countersunk screw
- 10.	D13000300	Internal Clip
- 14.	STF202	M4*30 Countersunk screw A4
- 19.	P00454	Rotor shaft retainer
- 23.	P00508	Propeller shaft gear spacer
- 24.	P00509	Propeller shaft gear spacer 2
- 28.	P00718	Shaft seal platform
- 39.	P00894	Thrust washer
- 42.	P05213	Rotor end cover cap
- 46.	STF010	M4 washer A4
- 47.	STF012	M6 washer A4
- 48.	STF013	M8 washer A4
- 49.	STF014	M4*25 Socket cap screw A4
- 50.	STF023	M4 spring washer A4
- 51.	STF024	M5 spring washer A4
- 52.	STF025	M6 spring washer A4
- 53.	STF026	M8 spring washer A4
- 54.	STF034	M4*12 Socket cap screw A4
- 55.	STF041	M5*25 Socket cap screw A4
- 56.	STF047	M6*30 Socket cap screw A4
- 57.	STF048	M6*40 Socket cap screw A4
- 58.	STF095	M5*10 Countersunk screw A4
- 59.	STF135	M16 nylock nut A4
- 60.	STF198	M4*12 Countersunk screw A4
- 61.	STF223	M8*110 Hex head bolt A4-80
- 62.	STF245	M4*25 Countersunk screw A4
- Epod		Housing retainer wire
- Epod		Main fuse PCB6273
- Epod		Fuse F1 PCB619
- Epod		Fuse F2 PCB619
- Epod		Fuse F3 PCB619
- Epod		Fuse F4 PCB619
- Epod		Fuse F5 PCB619
- Epod		M3 standoff
- Epod		M3 nylock nut
- Epod		M3*6 Philips head screw
- Epod		M3 washer
- Epod		M3 nylon washer
- Epod		M3 spring washer
- Epod		Spiral wrap interconnect

List of parts outside of standard service scope

No.	PN.	Description
- 11.	K1-10	Woodruff key 1/8*1/2
- 12.	M1020-ROTOR	Rotor (incl. 37. P05043, 39. P05045)
- 13.	M1020-STATOR	Stator 500V NEW
- 13.	M1020-STATOR	Stator 500V REWIND
- 15.	MEM75-5-MLG-12	Planetary reduction gear
- 16.	ML79-245	Interconnection whip
- 17.	P00382	Thruster shaft seal cap
- 18.	P00385-N	Propeller shaft titanium nitrated
- 20.	P00458	Rotor shaft bearing spacer
- 21.	P00461	Propeller spinner
- 22.	P00504	Bearing preload nut
- 25.	P00539	Nozzle support
- 26.	P00586	Nozzle support with cable notch
- 27.	P00599	Propeller
- 30.	P02080	Paper filter retainer
- 31.	P02081	Paper filter retainer base
- 33.	P03299	Thruster nozzle
- 34.	P03301	E-pod saddle
- 35.	P03466	E-pod saddle bracket
- 36.	P04513	Thruster body
- 38.	P05044	Gearbox spacer 2
- 40.	P05046	Gearbox housing
- 41.	P05047	Main bearing housing
- 44,1.	020EUBM05S6	Stainless QD
- 44,4	P09134	QD protection cap
- 44,5	P09441	M5 thread adapter stainless
- 44,7.	P10433	Diaphragm seat
- 44,8.	P10434	Diaphragm cap
- 63.	TH140	Bi directional shaft seal carbon
- 63.	TH140	Bi directional shaft seal SiC
- 65.	VH-412S16	Spiral ring retainer
- 66.	Y18-S11-A6	Bleed screw M5
- Whip	ML002-2250	7pin metal shell whip size 2
- Epod		Main housing
- Epod		Flange housing
- Epod	PCB6273	500V -> 15V PSU pcb
- Epod	PCB6146	500V filter pcb
- Epod	PCB6159	Thruster control pcb
- Epod	PCB6158	Fet driver pcb
- Epod	PCB6157	Fet bridge pcb
- Upgrade		ISS.5 compensator upgrade