

SEAKEEPER COMMISSIONING CHECKLIST



PRODUCT ALL SEAKEEPER STABILIZERS

DESCRIPTION

To provide a checklist of items to inspect and verify during the commissioning of Seakeeper stabilizers. This Commissioning Checklist is a supplement guide for the Seakeeper Commissioning Form 90437.

PURPOSE

All Seakeeper stabilizers should be commissioned to verify that installation specifications and requirements have been appropriately implemented. The commissioning process should include completing the Seakeeper commissioning form (document # 90437), completing all the items in this checklist, and verifying Seakeeper operation without alarms or abnormal behavior.

DOCUMENTS REQUIRED

[90437 – Seakeeper Commissioning Form](#)

SEAKEEPER INFORMATION

Included on the Seakeeper Commissioning Form

Seakeeper Model: _____ Seakeeper Serial No.: _____

GCM Software Version: _____ ConnectBox Software Version: _____

Motor Drive Serial No.: _____

For Multiple Seakeeper Installation, use a separate checklist and Commissioning Form for each

PROCEDURE

Perform each of the following checks, answering YES or NO, and note any discrepancies. All discrepancies should be communicated to the relevant and responsible party (e.g., Manufacturer, Installer, OEM, or Dealer).

1. **PHOTOGRAPH** Seakeeper installation, clearances and surrounding equipment or enclosures.
2. **PHOTOGRAPH** model and serial number labels on Seakeeper enclosure sphere and motor drive box (MDB).
 - 2.1 **LEAVE** cover panels off until all checks and commissioning are completed, then reinstall with proper hardware.
3. **ENSURE** AC and DC power is available to Seakeeper stabilizer.
4. **ACTIVATE** overrides as needed for proper commissioning.

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FOUNDATION / MECHANICAL	YES	NO	NOTES
Are mounting bolts torqued to specifications?	<input type="checkbox"/>	<input type="checkbox"/>	
Are mounting bolts in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	

Seakeeper must be at zero speed (0000) RPM motor speed.

ELECTRICAL / ELECTRONIC	YES	NO	NOTES
Are all connectors and connections made securely?	<input type="checkbox"/>	<input type="checkbox"/>	
Is bonding / grounding cable connected and in correct location?	<input type="checkbox"/>	<input type="checkbox"/>	
Is the AC / high-current DC circuit breaker of correct amp rating?	<input type="checkbox"/>	<input type="checkbox"/>	
Is DC control power and seawater pump circuit breaker of correct amp rating?	<input type="checkbox"/>	<input type="checkbox"/>	
Is DC input polarity correct?	<input type="checkbox"/>	<input type="checkbox"/>	

Turn on **DC** power breakers to the Seakeeper to answer the following questions.

Are DC input voltage and connections correct?	<input type="checkbox"/>	<input type="checkbox"/>	
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Turn on **AC / Hi-Current DC** power breakers to the Seakeeper to answer the following questions.

Are AC / Hi-Current DC input voltage and connections correct?	<input type="checkbox"/>	<input type="checkbox"/>	
Is the Angle Sensor calibrated? <small>*Brake override required</small>	<input type="checkbox"/>	<input type="checkbox"/>	
Does Angle Sensor reading correspond to precession correctly? (+/- degrees)	<input type="checkbox"/>	<input type="checkbox"/>	
Are ConnectBox cables connected correctly? Seakeeper CAN, Ethernet, and NMEA 2000	<input type="checkbox"/>	<input type="checkbox"/>	
Does the Seakeeper app appear and operate correctly on MFD?	<input type="checkbox"/>	<input type="checkbox"/>	
Are all alarms in the alarm history noted?	<input type="checkbox"/>	<input type="checkbox"/>	

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ENCLOSURE / SPHERE <small>*Brake override required</small>	YES	NO	NOTES
Is enclosure movement clear of obstructions?	<input type="checkbox"/>	<input type="checkbox"/>	
Is full movement FWD / AFT achieved?	<input type="checkbox"/>	<input type="checkbox"/>	
Are cooling hoses secured with no leaks?	<input type="checkbox"/>	<input type="checkbox"/>	
Is movement of cables and hoses on guide band satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	
Are sphere lifting eyebolts removed?	<input type="checkbox"/>	<input type="checkbox"/>	

COOLING	YES	NO	NOTES
Is the glycol level in reservoir satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	
Is the Heat Exchanger condition satisfactory?	<input type="checkbox"/>	<input type="checkbox"/>	
Are spare zinc anodes available, if applicable?	<input type="checkbox"/>	<input type="checkbox"/>	
Are cooling hoses secured with no leaks?	<input type="checkbox"/>	<input type="checkbox"/>	
Does Glycol pump operate? <small>*Glycol override required</small>	<input type="checkbox"/>	<input type="checkbox"/>	

Seawater must be available to perform the following checks.

Is a seawater flow meter installed on heat exchanger discharge?	<input type="checkbox"/>	<input type="checkbox"/>	
Does the seawater pump and valve operate? <small>*Seawater override required</small>	<input type="checkbox"/>	<input type="checkbox"/>	
Has seawater flow rate been recorded here?	<input type="checkbox"/>	<input type="checkbox"/>	
Is there unintended flow when underway with seawater pump off?	<input type="checkbox"/>	<input type="checkbox"/>	

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COOLING (Continued)

Referencing [SWI-139 - Seakeeper Seawater Flow Verification](#), DOCUMENT seawater flow rates, pump model, and seawater plumbing and valve configuration.

Model Pump:

Knots	PSI (Optional)	Flow (GPM with pump ON)	PSI (Optional)	Flow (GPM with pump OFF)	Describe seawater pump make and model, and plumbing & valve (optional) configuration:
Idle					
10					
20					
30					
40					
50					
60					
MAX__					

HYDRAULIC BRAKE <small>*Brake override required</small> Use table below for Seakeeper model hydraulic pressure specifications	YES	NO	NOTES
Are hydraulic hoses tight with no leaks	<input type="checkbox"/>	<input type="checkbox"/>	
Is brake system free of hydraulic oil leaks?	<input type="checkbox"/>	<input type="checkbox"/>	
Has hydraulic pressure been verified?	<input type="checkbox"/>	<input type="checkbox"/>	
Is hydraulic pressure (psi/bar) recorded here?	<input type="checkbox"/>	<input type="checkbox"/>	

SEAKEEPER MODEL	FACTORY CHARGE PRESSURE PSI / BAR	SEAKEEPER MODEL	FACTORY CHARGE PRESSURE PSI / BAR
Seakeeper 1	50 / 3.45	Seakeeper 9	350 / 24
Seakeeper 2	350 / 24	Seakeeper 10	95 / 6.55
Seakeeper 3		Seakeeper 14	
Seakeeper 4 / 4.5 (0.07 L accumulator)	50 / 3.45	Seakeeper 18	350 / 24
Seakeeper 4 / 4.5 (0.32 L accumulator)	105 / 7.24	Seakeeper 26	240 / 16.5
Seakeeper 6	350 / 24	Seakeeper 40	

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COVER PANELS Install cover panels (if applicable) and check the following.	YES	NO	NOTES
Are all panels properly fastened?	<input type="checkbox"/>	<input type="checkbox"/>	
Are panels without damage or deformation?	<input type="checkbox"/>	<input type="checkbox"/>	

ADDITIONAL COMMENTS OR SUGGESTIONS

SIGN OFF

Seakeeper Service Technician

Customer

Dealer Name: _____

Name: _____

Technician Name: _____

Signature: _____

Signature: _____

Date: _____

Date: _____

Please email support@seakeeper.com with any questions.