

PRODUCT

ALL SEAKEEPER MODELS

#### **PURPOSE**

This procedure guides the end-of-life disposition of a Seakeeper stabilizer not required for factory return in the most environmentally sustainable and safe method. If disposing of the enclosure sphere, only applicable steps should be taken.

#### **BACKGROUND**

The following Seakeeper models are not required for return to the Seakeeper factory. They are identified by the following serial ranges:

MODEL NUMBER	SERIAL RANGE	
M7000		
M7000A		
M8000 & MX	All serial numbers	
M5500		
M21000		
M21000A		
Seakeeper 3DC (EM)*	<b>3DC-0001</b> through <b>3DC-0740</b>	
Seakeeper 5 (EM)	<b>5-0001</b> through <b>5-1429</b>	
Seakeeper 12HD (EM)	<b>12HD-0001</b> through <b>12HD-193-0911</b>	
Seakeeper 16 (EM)	<b>16-0001</b> through <b>16-193-0911</b>	
* (EM) = Early model		

Seakeeper reserves the right to specify which models of stabilizers should be returned to the factory for disposition.

### **PRECAUTIONS**

- 1. **PERSONNEL INJURY HAZARD EXISTS FROM BRAKE SYSTEM PRESSURE**. Nominal brake system pressure is up to 350 psi.
- 2. **DISPOSAL OF CHEMICALS AND E-WASTE IMPROPERLY MAY NEGATIVELY IMPACT THE ENVIRONMENT.** Compliance with local regulations is required when disposing of a Seakeeper.

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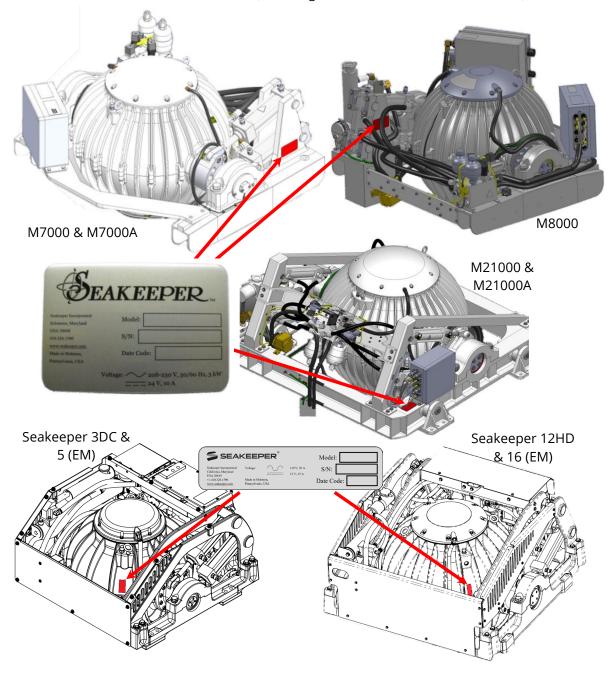


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### **PROCEDURE**

1. **CONTACT** Seakeeper Product Support Team at support@seakeeper.com with Seakeeper serial number to be removed from service. (See images below for serial label locations)



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- 2. **DRAIN** glycol from cooling system components:
  - a. **PLACE** drain pan / container beneath hose to be cut / removed.
  - b. CUT/REMOVE hoses at lower water jacket and heat exchanger inlet (identified below).

    M7000 & M7000A
    Heat Exchanger

    Inlet

    M26000

    Cutlet

    Expansion
    Tank

c. **DISPOSE** of ethylene glycol per local regulations.

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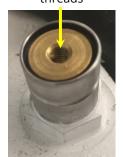
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#### **WARNING!**

### PERSONNEL INJURY HAZARD EXISTS FROM HIGH BRAKE SYSTEM PRESSURE (350 PSI)

- 3. **DRAIN** hydraulic brake fluid (AW-46) from brake system components:
  - a. **BLEED** brake pressure and fluid from brake system per <u>SWI-103</u>.
  - b. **PLACE** drain pan or brake kit drain bottle beneath brake hose at cylinder.
  - c. **REMOVE** brake hoses from cylinders **AND DRAIN** fluid into drain pan / bottle.
  - d. **REMOVE AND DISCARD** accumulators from brake manifold.
  - e. **DISPOSE** of brake fluid (AW-46) per local regulations.
- 4. **RELEASE** vacuum from enclosure sphere by lifting vacuum service plug from port with 10-32 machine screw.
- 5. **DISCARD** vacuum plug.
- 6. **SECURE** enclosure to frame with strap, wire, or large cable ties to ensure no movement during handling.

10-32 UNF threads



Vacuum service port on top of sphere

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#### NOTE:

Electronics must be processed as e-waste and cannot be placed in landfills in many jurisdictions.

7. **REMOVE** gyro control box (GCB), gyro control module (GCM), inertia measurement unit (IMU), and compact motor drive box (CMDB) or motor drive box (MDB) from Seakeeper frame.



- 8. **RETURN** gyro control box or GCM, and serial label to Seakeeper. [Seakeeper will provide RA and prepaid shipping label.]
- 9. **DISPOSE** of display(s) and remaining electronic components as e-waste per local regulations.
- 10. **CUT** flywheel motor power cable at feed-through as follows:
  - a. **PULL** motor power cable, at bottom of sphere, as far as possible from enclosure.
  - b. **CUT** power cable as close to enclosure opening as possible with hard-wire cutter.



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#### NOTE:

Some recycling centers may only take separated materials.

# 11. **RECYCLE** unit with local recycling facility.

Seakeeper suggests contacting Sims Metal or SA Recycling for recycling if convenient to UK and North American dealers. A list of Sims recycling centers is listed in the attachment. Sims can accept whole units, following preparation as outlined in this document, for processing as mixed metal scrap.

Dealers outside of North America not near a Sims location should contact their local metal recycling facility.

Weights & approximate compositions

MODEL	Total Weight	Composition	
M7000	990 lbs (450 kg)		
M7000A	982 lbs (445 kg)		
M8000 & MX	1210 lbs (549 kg)	A	
M21000	2910 lbs (1320 kg)	Approximately: 50% steel,	
M21000A	2950 lbs (1338 kg)	30% aluminum, and 20% various materials	
M5500	1069 lbs (485 kg)	various materiais	
Seakeeper 3DC & 5 (EM)	810 lbs (368 kg)		
Seakeeper 12HD & 16(EM)	2195 lbs (996 kg)		

\*\*\*\*\*\* END \*\*\*\*\*\*\*

Revision	Description	Approval	Date
1	Initial release	A Patricio	05JAN2024

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### **ATTACHMENT**

Sims recycling locations in North America:

Company	Telephone	Address	City, State/Province	Postal Code
Richmond Steel Recycling	604-324-4656	11760 Mitchell Rd	Richmond, BC, Canada	V6V 1V8
SA Recycling	619-234-6691	1211 S 32 <sup>nd</sup> St.	San Diego CA	92113
SA Recycling	714-632-2000	3200 East Frontera St.	Anaheim, CA	92806
Sims Metal	510-412-5300	600 S 4 <sup>th</sup> St.	Richmond, CA	94804
SA Recycling	818-767-5022	9754 San Fernando Rd.	Sun Valley, CA	91352
Sims Metal	203-777-2591	234 Universal Dr.	North Haven, CT	06473
SA Recycling	954-972-1111	1610 N Powerline Rd.	Pompano Beach, FL	33069
SA Recycling	850-438-3197	2911 N Palafox St.	Pensacola, FL	32501
SA Recycling	912-395-8900	100 Sonny Perdue Dr.	Savannah, GA	31408
Sims Metal	773-890-4216	2425 S Wood St.	Chicago, IL	60608
Sims Metal	410-384-4198	909 Millington Ave.	Baltimore, MD	21223
Sims Metal	201-577-3200	1 Linden Ave E.	Jersey City, NJ	07305
Sims Metal	401-404-5420	15-17 Green Earth Ave.	Johnston, RI	02919
Sims Metal	713-671-2900	90 Hirsch Rd.	Houston, TX	77020
Sims Metal	757-543-2006	4300 Buell St.	Chesapeake, VA	23324

Find other North American Sims recycling locations <a href="here">here</a>.
For the United Kingdom, search for Sims recycling locations <a href="here">here</a>.

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