



# BOATING SAFETY CIRCULAR

## INSIDE THIS ISSUE:

Recreational Boat Regulations Specialist	2
Compliance Inspectors	3
Calendar of Events	5
Websites and Email Addresses	5
Boating Safety Circular Index	6
Recalls	9

## Boating Safety Circular

The *Boating Safety Circular* is a product of the United States Coast Guard's Office of Auxiliary and Boating Safety — Boating Safety Division — Recreational Boating Product Assurance Branch, Commandant (BSX-23), 2703 Martin Luther King Jr Ave SE, Stop 7501, Washington, DC 20593-7501

Email: [rbscompliance@uscg.mil](mailto:rbscompliance@uscg.mil)

The *Boating Safety Circular* is for information only. No Federal Statutes or Regulations are established or changed in this circular.

<https://safeafloat.com/boat-builders-handbook/>  
[www.uscgboating.org](http://www.uscgboating.org)  
[www.safeafloat.com](http://www.safeafloat.com)

## Subscribe

[click here to subscribe to the BSC.](#)

The Boating Safety Circular (BSC) and other important U.S. Coast Guard notices for recreational boat manufacturers are delivered by the GovDelivery system using the following address: [uscoast-guard@service.govdelivery.com](mailto:uscoast-guard@service.govdelivery.com).

To ensure you receive the BSC and other notices please whitelist this email address or add it to your safe senders list.

## USCG/ABYC Risk Mitigation Series 8: Gasoline Fuel Systems - Evolution and Compliance

The U.S. Coast Guard (USCG) and the American Boat and Yacht Council (ABYC) have opened registration for the next installment of the USCG/ABYC Risk Mitigation Series, which will be held virtually Wednesday, May 7, from 1 to 3 p.m. *Risk Mitigation 8: Gasoline Fuel Systems – Evolution and Compliance* will cover the latest gasoline fuel system requirements and critical safety considerations.

Industry professionals, marine surveyors, technicians, and compliance personnel are invited to join expert-led presentations and a panel discussion on updates to ABYC Standard H-24 (Gasoline Fuel Systems, 2025 revision) and the USCG's new equivalency policy. Fuel system inspection, contributing factors to refueling accidents, and common mistakes observed in refueling will also be addressed.

### Webinar topics include:

- Industry Update from the USCG
- USCG Equivalency: What Does it Mean and How Does it Work?
- H-24 2025 – Update on the New Standard
- Fuel System Inspection and Refueling Procedure

The Risk Mitigation Series is a free, online event dedicated to improving safety in recreational boat design and construction. Sessions are recorded for later viewing.

To register free, please visit <https://www.abycinc.org/riskmitigation>.

To access past recordings, visit [www.abycinc.org/USCGwebinars](http://www.abycinc.org/USCGwebinars).



## Coast Guard Exercises Equivalency Authority

The Coast Guard Office of Auxiliary & Boating Safety has the authority to issue equivalencies to comply with safety standards, as set forth in Chapter 46, U.S. Code, 4305(b):

*Equivalentents – The secretary may accept a substitution for associated equipment performance or other safety standards for a recreational vessel if the substitution provides an equivalent level of safety.*

This tool can be used in novel or unique arrangements that don't fit well into current safety regulations, or if the technology and routine vessel trends simply outpace regulations. The Office of Auxiliary & Boating Safety has issued two equivalencies this year that fit the latter category:

1. The first addresses a trend in vessels to place fuel pumps inside a fuel tank, which is not in compliance with 33 CFR 183.566 that requires the pump to be on

Continued from page 1

*“This tool can be used in novel or unique arrangements that don’t fit well into current safety regulations, or if the technology and routine vessel trends simply outpace regulations.”*

*“Equivalencies allow us to issue policy for boats or equipment that don’t fit well into the prescriptive regulations.”*

or within 12 inches of the engine it serves.

2. The second addresses a potential noncompliance with wire gauge smaller than 18 AWG in powered communication backbone systems such as NMEA 2000 as specified in 33 CFR 183.425(d).

#### **Acceptance of Requirements Found in ABYC H-24, Gasoline (Petrol) Fuel Systems, as Equivalent to the Requirements found in 33 CFR 183.566**

CG-BSX-23 Policy Letter 25-01 accepts a substitution for certain pump-in-tank fuel systems for the requirement that a fuel pump be on or within 12 inches of the engine it serves. The Fuel System Standard in 33 CFR 183 Subpart J requires manufacturers to design gasoline fuel systems in a manner that will minimize the probability of release of gasoline liquid or vapor, which is the premise behind placing a fuel pump next to the engine (to minimize length of pressurized hose). Pump-in-tank arrangements have mechanical advantages in that they provide a continuous, laminar supply of fuel to the pump and in an environment that facilitates lubrication and heat dissipation. Connections within the system outside the fuel tank are also reduced significantly, mitigating the risk of a spill. ABYC H-24 addresses pump-in-tank arrangements and sets forth the conditions where pump-in-tank systems can be considered compliant with USCG regulations.

#### **Acceptance of 22 AWG Wire in Communication Systems as Equivalent to the Requirements found in 33 CFR 183.425**

CG-BSX-23 Policy Letter 25-02 codifies

acceptance of the wire gauge as small as 22 AWG in communication systems such as NMEA 2000. The regulation specifies any conductor in multiconductor sheath must be at least 18 AWG, but NMEA cables have long been accepted in both commercial and recreational applications and have historically used conductors as small as 22 AWG. The equivalency allows for cable constructed for use in communication backbones to be used in direct current applications under 5 amps. It must be used only in integrated power supply applications for networking, control and systems such as NMEA 2000. When used in this capacity, conductors #18 AWG and larger will be provided with over current protection in accordance with 33 CFR 183.455. For cables with conductors smaller than #18 AWG the over current protection shall not exceed 3 Amperes for #22 AWG and 5 Amperes for #20 AWG. This equivalency brings the recreational requirements in line with commercial policy.

Equivalencies allow us to issue policy for boats or equipment that don’t fit well into the prescriptive regulations found in 33 CFR 183 Subchapter S and allows the industry to continue to evolve. Equivalencies and other policies can be found at [safeafloat.com](https://safeafloat.com), in the policy section under the Boat Builders Tool Kit tab or follow this link: <https://safeafloat.com/policies-letters/>

■

## **Coast Guard Announces New Certification Available for Recreational Vessel Manufacturers**

The U.S. Coast Guard (USCG) is pleased to announce that we have partnered with the American Boat & Yacht Council (ABYC) to develop a specialized certification for professionals in the field of recreational boat manufacturing. The certification is called the Recreational Boat Regulations Specialist (RBRS) and the

primary purpose of this certification is to ensure that individuals working in the boating and marine industry are knowledgeable and proficient in complying with federal laws and regulations pertaining to the manufacture of recreational vessels.

The educational course is currently being piloted by a select group of industry

Continued from page 2

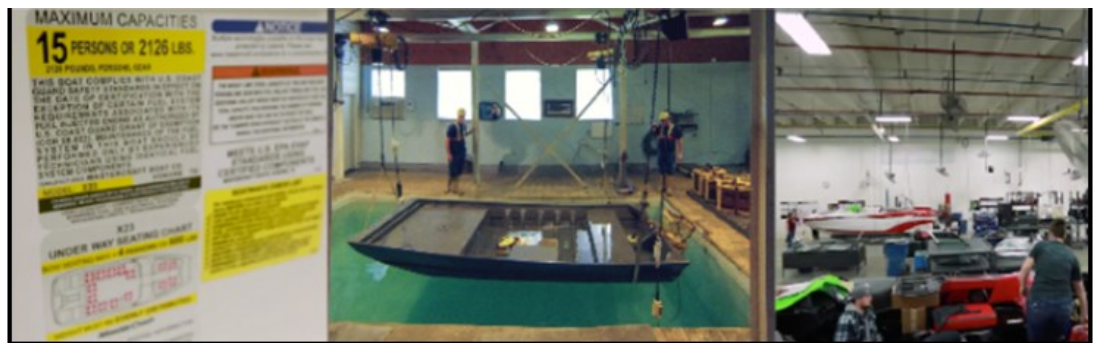
*“This combined approach ensures that the RBRS certification is grounded in both regulatory compliance and technical knowledge.”*

professionals and will be more widely available after feedback is received from those first participants. The self-paced educational course will be available online through the ABYC learning management system, and a written study guide will also be available to supplement the course. Once RBRS candidates have taken the course they will be eligible to take the certification exam. More information on how to sign up for the certification will be available this summer at: <https://abycinc.org/education/certification-program/>.

The partnership between the USCG and ABYC brings together the extensive regulatory expertise of the US Coast Guard and the technical and standards-setting knowledge of the ABYC. The USCG has long been responsible for enforcing federal maritime safety regulations and overseeing the safe

operation of recreational vessels. ABYC, on the other hand, plays a critical role in setting industry standards for boat construction, equipment, and maintenance. This combined approach ensures that the RBRS certification is grounded in both regulatory compliance and technical knowledge, providing a holistic understanding of the issues compliance professionals face in the field.

By earning this certification, recreational marine industry professionals will demonstrate their ability to assess and ensure compliance with various regulations related to the construction of recreational vessels. Any questions about the RBRS certification can be directed to [rbscompliance@uscg.mil](mailto:rbscompliance@uscg.mil).



## **Need a Manufacturer Identification Code (MIC), Or Know Someone Who Does?**

**Simply email the Coast Guard at [MICApp@uscg.mil](mailto:MICApp@uscg.mil). A Coast Guard representative will respond with detailed instructions on how to complete the MIC application process.**

## USCG Recreational Boating Product Assurance Branch (CG-BSX-23) Staff

Mr. Jeff Ludwig: Branch Chief

[Jeffrey.A.Ludwig@uscg.mil](mailto:Jeffrey.A.Ludwig@uscg.mil)

Mr. Eric Johnson: Senior Engineer

DE, DC, GU, MD, NJ, NC, PA, PR, VA, VI, WV

[Eric.A.Johnson@uscg.mil](mailto:Eric.A.Johnson@uscg.mil)

Mr. Kevin Ferrie:

Engineering/Manufacturer Outreach

AK, CA, CO, CT, ID, IL, IN, IA, KS, ME, MA, MI, MN, MO, MT, NE, NV, NH, NY, ND, OH, OR, RI, SD, UT, VT, WA, WI, WY

[Kevin.B.Ferrie@uscg.mil](mailto:Kevin.B.Ferrie@uscg.mil)

Mr. Todd Williams:

Engineering/Manufacturer Outreach

AL, AZ, AR, FL, GA, HI, KY, LA, MS, NM, OK, SC, TN, TX

[Philip.T.Williams@uscg.mil](mailto:Philip.T.Williams@uscg.mil)

Mr. Will Hillyer: RBS Specialist/Marine Investigator

[William.Y.Hillyer@uscg.mil](mailto:William.Y.Hillyer@uscg.mil)

Mr. Tim Rafter: RBS

Specialist/Exemptions & Equivalencies

[Timothy.M.Rafter2@uscg.mil](mailto:Timothy.M.Rafter2@uscg.mil)



## Compliance Inspectors

Michael Haley

[mhaley@ppgmarine.com](mailto:mhaley@ppgmarine.com)

Boat Test Specialist

Dave Beery

[dbeery@ppgmarine.com](mailto:dbeery@ppgmarine.com)

FL, GA

Aron Brewer

[abrewer@ppgmarine.com](mailto:abrewer@ppgmarine.com)

FL, SC, LA

Rick Curtis

[rcurtis@ppgmarine.com](mailto:rcurtis@ppgmarine.com)

CT, KY, MA, MD, ME, NH, OH, RI, TN, VA, VT

Tony Garrison

[tgarrison@ppgmarine.com](mailto:tgarrison@ppgmarine.com)

CA, GU, IL, IN, KS, MI, MO, MP, NV, OK, PR, UVI, TX

Stephen Kynaston

[skynaston@ppgmarine.com](mailto:skynaston@ppgmarine.com)

AK, AL, AR, HI, IA, ID, MN, MS, MT, ND, NE, OR, SD, WA, WI, WY

Alan J. Kiehle

[akiehle@ppgmarine.com](mailto:akiehle@ppgmarine.com)

CT, NY, RI, PA, OH, WV, MD, DE, DC, NJ

Bryan Teague

[bteague@ppgmarine.com](mailto:bteague@ppgmarine.com)

DC, DE, NC, NJ, NY, PA, WV

Lowell Weidman

[lweidman@ppgmarine.com](mailto:lweidman@ppgmarine.com)

AZ, CO, NM, UT

■

*Note: The Compliance Inspector for your state may have been re-assigned. The Coast Guard has several new inspectors and areas of responsibility have been updated. Always check on [www.SafeAfloat.com](http://www.SafeAfloat.com) for the most current assignments.*

### Don't forget to let the Coast Guard know if your company information has changed.

The regulations in 33 CFR §181.33(b) require you to notify the Coast Guard if you change company ownership, name, or address. It is also important to keep all contact information current in your MIC record, including phone number and email address. You can email [MICApp@uscg.mil](mailto:MICApp@uscg.mil) to provide updated company information.



## Calendar of Events

### American Boat and Yacht Council (ABYC)

ABYC Online Training: [https://abycinc.org/events/event\\_list.asp](https://abycinc.org/events/event_list.asp)

### National Association of State Boating Law Administrators (NASBLA)

2025 Operation Dry Water	Nationwide	07/04/2025 - 07/06/2025
Annual Conference	Des Moines, Iowa	09/16/2025 - 09/18/2025

### National Marine Manufacturers Association (NMMA)

International Boatbuilders Exhibition and Conference (IBEX) Trade Show	Tampa, Florida	10/07/2025 - 10/09/2025
--	----------------	-------------------------

Boat and Trade Shows: [Worldwide Boat Show Calendar \(nmma.org\)](http://Worldwide Boat Show Calendar (nmma.org))

## Websites of Note:

[uscgboating.org](http://uscgboating.org) - U.S. Coast Guard's Boating Safety Division

[Facebook.com/USCG Boating Safety](https://Facebook.com/USCG Boating Safety) - U.S. Coast Guard Boating Safety

[safeafloat.com](http://safeafloat.com) - Recreational Boating Product Assurance Branch Boat Building Compliance Website

[abycinc.org](http://abycinc.org) - American Boat and Yacht Council

[nmma.org](http://nmma.org) - National Marine Manufacturers Association

[nasbla.org](http://nasbla.org) - National Association of State Boating Law Administrators (NASBLA)

## Email Addresses of Note:

[rbscompliance@uscg.mil](mailto:rbscompliance@uscg.mil) - for all manufacturer inquiries except for MICs

[rbsinfo@uscg.mil](mailto:rbsinfo@uscg.mil) - for general boating safety questions

[MICAPP@uscg.mil](mailto:MICAPP@uscg.mil) - for all inquiries related to manufacturer's identification codes (MIC)

[TypeApproval@uscg.mil](mailto:TypeApproval@uscg.mil) - for all inquiries about equipment and materials that receive Coast Guard approval (life jackets, visual distress signals, inflatable life rafts, etc.)



**It Does Save Lives!**

# Boating Safety Circular Index 2000 — 2025

## **Boat Building**

Are you Building a Canoe or a Power Driven Vessel?.....	Fall 2020, Issue 95
Manufacturer Statement of Origin.....	Spring 2024, Issue 102

## **Boat Kits**

Kit Boat Manufacturers and Coast Guard Safety Standards and Regulations.....	December 2013, Issue 87
Kit Boat Manufacturers and CG Standards.....	March 2007, Issue 85

## **Backyard Boat Builders**

Backyard Built Boats; Things You May Not Know.....	Spring 2016, Issue 89
--	-----------------------

## **Boating Safety Circular**

100th Issue Boating Safety Circular.....	Spring 2023, Issue 100
A Short History of the Boating Safety Circular.....	Spring 2023, Issue 100

## **Carbon Monoxide**

Boating and Carbon Monoxide Poisoning a Dangerous Combination.....	August 2008, Issue 86
Carbon Monoxide Brochure .....	January 2004, Issue 84
Carbon Monoxide Hazard Mitigation Revisited.....	Fall 2014, Issue 88
Coast Guard Advisory On Carbon Monoxide Hazard Caused By Generator Exhaust Gas Accumulations .....	August 2008, Issue 86
Decals ABYC and NMMA Carbon Monoxide Warning Decals.....	March 2001, Issue 82

## **Certification**

Does the Coast Guard Certify Boats?.....	Spring 2016, Issue 89
--	-----------------------

## **Citations/Violations**

Notice of Violation.....	Fall 2014, Issue 88
Summary of MIBS 2019 Inspection Citations by Type.....	Spring 2019, Issue 92

## **Compliance Program**

Compliance Inspector.....	Fall 2023, Issue 101
Compliance Testing Policy Guidelines.....	September 2003, Issue 83
Factory Visit Program.....	January 2004, Issue 84
Meet the Newest Compliance Inspector.....	Fall 2023, Issue 101
Recreational Boat Factory Visit .....	March 2001, Issue 82
Recreational Boat Factory Visit Program.....	December 2013, Issue 87
Recreational Boat Testing and Compliance Program.....	Fall 2014, Issue 88
Update on Recreational Boat Factory Visit Program.....	September 2003, Issue 83
When the USCG Buys Your Boat for Testing.....	Spring 2021, Issue 96
Coast Guard Announces New Certification Available for Recreational Vessel Manufacturers.....	Spring 2025, Issue 104

## **Electric Boats**

The Coast Guard and ABYC Announce Virtual Forum to Discuss Issues Related to Electric Boats.....	Fall 2021, Issue 97
Electric Propulsion.....	Fall 2022, Issue 99

Continued from page 6

**Engines**

Is a gasoline outboard kicker too much horsepower?..... Spring 2017, Issue 90

**Exemptions and Equivalencies**

Grant of Exemption: An Overview ..... Spring 2017, Issue 90

Mudboat and Airboat Exemptions Expired..... Fall 2024, Issue 103

Coast Guard Exercises Equivalency Authority..... Spring 2025, Issue 104

**Frequently Asked Questions**

FAQs for Engine Cut Off Switches, Manufacturers Identification Codes and Navigation Lights..... Fall 2021, Issue 97

**Flotation**

Best Manufacturing Practices in Quality Controls for Flotation Foam in Recreational Vessels..... Spring 2022, Issue 98

**Fuel**

Fuel Tank Pressure Test ≠ Fuel System Pressure Test..... Spring 2021, Issue 96

Pain in the Gas..... March 2007, Issue 85

**Hulls**

Bare Hulls; What Are They?..... December 2013, Issue 87

Boats vs. Bare Hulls..... March 2007, Issue 85

**Hull Identification Number (HIN)**

Country of Origin Codes and HINs..... September 2003, Issue 83

Final Rule: Country of Origin Codes and HINs..... Spring 2019, Issue 92

HINs for Racing Vessels..... Spring 2019, Issue 92

New Hull Identification Number Policy Announcement..... Fall 2023, Issue 101

verification of Hull Identification Number..... Fall 2014, Issue 88

**Importer**

Responsibility of a Recreational Boat Importer..... Spring 2016, Issue 89

Sale of Foreign-Built Boats by Importers..... December 2013, Issue 87

**Labels**

Capacity Label 101 — Back To The Basics..... Spring 2019, Issue 92

Certification Label Requirements..... Spring 2020, Issue 94

Proper Capacity Label Placement..... Spring 2020, Issue 94

**Management**

Case Management..... Spring 2019, Issue 92

Coast Guard Conducting Study to Improve Nation's Shallow Draft Waterways ATON System..... Fall 2020, Issue 95

Defect Notification—When is a Recall Necessary and Who Initiates One? (Recall Series Part 1 of 2)..... Spring 2023, Issue 100

Defect Notification Procedures and Best Management Practices (Recall Series Part 2 of 2)..... Fall 2023, Issue 101

New Email..... Spring 2022, Issue 98

Continued from page 7

Remote Fuel Delivery Grant.....	Fall 2020, Issue 95
U.S. Coast Guard Boat Inspection and Test Data.....	Spring 2023, Issue 100
U.S Coast Guard Boat Inspection and Test Data for 2023.....	Spring 2024, Issue 102
Recall Tracking.....	Fall 2024, Issue 103

### **Manufacturers Identification Code (MIC)**

Coast Guard Manufacturer Identification Code Database.....	December 2013, Issue 87
Manufacturer ID Codes.....	March 2007, Issue 85
Manufacturer Identification Code (MIC) Data.....	August 2008, Issue 86
New Point of Contact for Manufacturer’s Identification Codes.....	Fall 2018, Issue 91
Verify Company Information in the MIC Database.....	Spring 2024, Issue 102
Reminder to Update Your MIC Registration.....	Fall 2019, Issue 93

### **Navigation Lights**

Final Rule; Certification of Navigation Lights.....	September 2003, Issue 83
Manufacturer’s Responsibilities for Obstructed Navigation Lights .....	Spring 2021, Issue 96
Navigation Lights, The rules are for your safety.....	Spring 2016, Issue 89
Recreational Boat Manufactures: Subpart M-Navigation Lights.....	March 2007, Issue 85
Sidelight Sector Illumination.....	Fall 2020, Issue 95

### **Office of Boating Safety**

Departure of Mr. Lou Novak.....	Spring 2021, Issue 96
Mr. Po Chang Retires from BSX-23.....	Fall 2020, Issue 95
New Point of Contact for Manufacturer’s Identification Codes.....	Fall 2022, Issue 99
Now Hiring!.....	Spring 2021, Issue 96
Personnel Changes in the Office of Auxiliary & Boating Safety and the Recreational Boating Product Assurance Branch.....	Spring 2021, Issue 96
Two New Engineers Join the Recreational Boating Product Assurance Branch....	Fall 2021, Issue 97
Staff Member Retirement.....	Fall 2024, Issue 103

### **Personal Flotation Device (PFD)**

Belt Pack Inflatable PFD Tests (1).....	January 2004, Issue 84
Belt Pack Inflatable PFD Tests (2).....	January 2004, Issue 84
Lifejacket Approval Harmonization.....	Fall 2018, Issue 91

### **Policy**

Coast Guard’s Recreational Boating Policies for Manufacturers.....	Spring 2024, Issue 102
--	------------------------

### **Propeller Guard**

Propeller Guard Test Procedure Report .....	December 2013, Issue 87
---	-------------------------

### **Regulatory**

Equivalency.....	Fall 2023, Issue 101
Frank LoBiondo Coast Guard Authorization Act of 2018.....	January 2004, Issue 84
Model Year.....	Fall 2018, Issue 91
Mudboat and Airboat Flotation Exemption to End.....	Spring 2022, Issue 98
New Engine Cut-Off Switch Law Goes Into Effect on April 1, 2021.....	Spring 2021, Issue 96
Safe Loading and Flotation Regulations.....	December 2013, Issue 87



Continued from page 8

Updated Outboard Engine Weights.....	Fall 2018, Issue 91
Gear Weight - The Forgotten Number.....	Fall 2019, Issue 93

**Risk Mitigation Series**

USCG/ABYC Risk Mitigation Series 4: Staying Current with Electrification.....	Spring 2023, Issue 100
USCG/ABYC Risk Mitigation Series 5: Navigating Compliance in the Age of Evolving Technology.....	Fall 2023, Issue 101
USCG/ABYC Risk Mitigation Series 6: Don't Be a Statistic: Data Saves Lives...	Spring 2024, Issue 102
Risk Mitigation Series 7: Evolving Technologies, Standards & Requirements in the Marine Industry.....	Fall 2024, Issue 103

**Safety**

After 31 December 2006 Boaters Must Not Operate 121.5/243 MHZ EPIRB.....	March 2007, Issue 85
Alternatives to Pyrotechnic Distress Signals.....	Fall 2018, Issue 91
Coast Guard Infoline Termination.....	August 2008, Issue 86
Conducting Drills For Your Kids.....	Spring 2017, Issue 90
Don't Build a Boat without Them.....	Spring 2020, Issue 94
Hull Reflective Stripe Can Save Lives.....	Fall 2014, Issue 88
My Boat is Defective...or is it?.....	Spring 2017, Issue 90
National Boating Safety Advisory Council.....	Fall 2018, Issue 91
News from Consumer Product Safety Commission (CPSC).....	August 2008, Issue 86
Switlik Liferaft Inflation System Defect.....	August 2008, Issue 86
We've Got an App for That.....	Spring 2016, Issue 89
What is a Substantial Risk Safety Defect?.....	Fall 2022, Issue 99

**Texas Flats Boats**

Shallow Water Boats Including Texas Flats Boats Stability Study Update.....	Spring 2016, Issue 89
Texas Flats Boat Stability Study.....	Fall 2014, Issue 88

**Ventilation**

Openings in Ventilation Systems.....	March 2007 Issue 85
--------------------------------------	---------------------

# Recalls

**The following are active recalls that opened since the last Boating Safety Circular was published in September of 2024. To search for recalls go to:**

<https://uscgboating.org/content/recalls.php>

## 2025

**THE MARINE GROUP**

Campaign # 25MF0125  
 Year: 2025  
 Model(s): Diamante, Lago Z, Lago V  
 Problem: LED Lighting Stray Current

**VOLVO PENTA**

Campaign # 25MF0117  
 Model(s): V6 and V8 gasoline engines with SX, DPS, TCC and FWD sterndrives and EVC2 Control Systems

Continued from page 9

**VOLVO PENTA**

Campaign # 25MF0118  
Model(s): D4 and D6  
Problem: Electronic Vessel Control system (EVC2)

**BOMBARDIER RECREATIONAL PRODUCTS INC**

Campaign # 25MF0062  
Year: 2022, 2023, 2024, 2025  
Model(s): Sea-Doo Switch  
Problem: Risk of Capsize

**MALIBU, INC.**

Campaign # 25MF0036  
Year: 2025  
Model(s): Cobalt A29, R30, R31, R33, R35  
Problem: Bilge Blower

**2024**

**DOMETIC**

Campaign # 24MF0390  
Model(s): 172005, CH2100P, CH2200ENCP,  
CH2200P, CH2200SCP, CH2244ENCP  
Problem: Shift Lever Connection

**MALIBU, INC.**

Campaign # 24MF0527  
Year: 2024  
Model(s): CS22, CS23, R4, R6  
Problem: Fuel Hose

