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## Sailfish 245 DC Specifications

### Boat
- Backing Plates for Radar and VHF Mounts in Hard Top
- Bimini Top
- Boarding Ladder (4 step with grab handle)
- Built-In Rigging Tubes (From Bilge to Helm w/ pull tapes)
- Carbon Fiber & Kevlar® Reinforced Deck & Hull
- Closed Cell Foam Flotation
- Cockpit Bolster Pads
- Exclusive Dog Matrix Non-Skid Flooring
- Exclusive VOS Hull Design (Variable Deadrise Stepped Hull)
- Hydraulic Steering w/Tilt SST Steering Wheel w/ Power Knob (Evo Pro w/ Leather Grips)
- Mercury Verado Fuel Filter / Water Separator
- Oversized Bilge Access
- Powder Coated Walk Thru Windshield w/ Tempered Glass
- Recessed SST Cup Holders (16)
- Sailfish Composite Full Length Transom
- Sailfish Foam Filled Fiberglass Stringer System
- Transom Mounted Tool & Raw Water Wash Down Hose Holder
- Trim Tabs w/ Indicator & Built In Auto Retract Feature
- Walk Thru Transom Door with Wave Guard Step
- Yamaha 10 Micron Fuel Filter / Water Separator w/ SST Base

### Bow
- 12 Volt DC Accessory Plug
- Bow Block Off Door
- Bow Bottom and Backrest Cushions
- Chaise Lounge Style Seating
- SST Split Low Profile Bow Rails

### Electrical
- 12 Volt DC Accessory Plug
- Accessory Switch Panel w/Circuit Breakers
- Compass
- Electric Horn
- Full Digital Instrumentation
- Fully NEMA Compliant
- Fusion/Wet Sounds Stereo System w/USB Port
- LED Anchor Light
- LED Cockpit & Bilge Lighting
- LED Navigational Flip Up Bow Light
- Fender Cleats (4)
- Flush Mount Hinges, Latches & Deck Plates
- Heavy Duty SST Bow & Stern Eyes
- Heavy Duty SST Rub Rail
- Marine Grade SST Hardware
- Sailfish Engraved Transom Plate
- SST & Bronze Thru Hull Fittings
- SST Flush Mount Pull Up Cleats (6)
- SST Propeller(s)
- SST Rod Holders (4)

### Helm
- Large Dash Area (Capable of flushing Mounting 12" Electronics)
- In-Floor Rod Storage (2)
- Power Assist Steering
- Removable Bow Table
- Two Tone Hard Top
- Underwater LED Lights (2)
- Lewmar Bow Pre-Wire
- VesselView 703
- Windlass w/ Polished Roller, SST Scuff Plate, SST Anchor, Rope & Chain
- Windshield Wiper (Captain's Side) w/ Fresh Water

### Storage
- Anchor Locker (Finished Fiberglass w/ Anchor Management System)
- Battery Storage (Bilge Compartment)
- Fiberglass Console Storage
- Glove Box (Helm)
- In Floor Ski Locker (Mid-Ship)
- Recessed Rod Storage (STB Side)
- Storage Center In STB Passenger Seat Pod

### Options
- **Boat Options**
  - 12 Volt Refrigerator (Must Order Galley Pack)
  - 2 Additional Rod Holders (In Splashwell)
  - Additional Table Base
  - Bow & Cockpit Covers
  - CL7 (C Series Motors Only)
  - CL7 (C Series Motors Only)
  - Hard Top Enclosure (3 Piece)
  - In-Floor Rod Storage (2)
  - Power Assist Steering
  - Removable Bow Table
  - Two Tone Hard Top
  - Underwater LED Lights (2)
  - Lewmar Bow Pre-Wire
  - VesselView 703
  - Windlass w/ Polished Roller, SST Scuff Plate, SST Anchor, Rope & Chain
  - Windshield Wiper (Captain's Side) w/ Fresh Water

### Engine Options
- **Yamaha**
  - F200XB
  - F250XB
  - F300XB
  - F300XA
  - White Painted Motor (300HP Only)
- **Mercury**
  - 200XL DTS
  - 260XL DTS
  - 300XL DTS
  - White Painted Motor (200HP and Up)

### Hardware Options
- **Ski Tow Bar (Retractable)**
- **Plumbing Options**
  - Electric Marine Head w/Holding Tank (with deck pump-out fitting)
  - Piping System (For Hard Top only)
  - Porta Potti
  - Porta Potti (Pump Out)

### Seating Options
- Bow Filler Cushion
- Capt. Chair Upgrade (Adjustable Height Pedestal & Flip Up Arm Rest)
- STB Side Aft Fold Out Seat (38")

### Optional Packages
- **Entertainment Package** - Ski Tow Bar, Removable Bow Table, Fusion Transom Remote Control & Underwater LED Lights (2)
- **Galley Pack** - Sink, Corian Countertops, Storage, Cutting Board & Removable Cooler
- **HFP** - (Hard Top w/PFD Storage & Transom Rod Holders)

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOA</td>
<td>24</td>
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<tr>
<td>Length Rigged</td>
<td>26</td>
</tr>
<tr>
<td>Beam</td>
<td>8' 6&quot;</td>
</tr>
<tr>
<td>Fuel Capacity</td>
<td>120 Gallons</td>
</tr>
<tr>
<td>Fresh Water</td>
<td>14 Gallons</td>
</tr>
<tr>
<td>Weight</td>
<td>5,350 lbs</td>
</tr>
<tr>
<td>Cockpit Depth Rear</td>
<td>27</td>
</tr>
<tr>
<td>Bow Depth</td>
<td>10'</td>
</tr>
<tr>
<td>Max Horsepower</td>
<td>300</td>
</tr>
<tr>
<td>Draft (Hull Only)</td>
<td>22'</td>
</tr>
<tr>
<td>Deadrise (Multiangle)</td>
<td>22°-24°</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>32&quot;</td>
</tr>
<tr>
<td>Deadrise (Multiangle)</td>
<td>32&quot;</td>
</tr>
<tr>
<td>Cockpit Depth Rear</td>
<td>5,350 lbs</td>
</tr>
<tr>
<td>Weight</td>
<td>8' 6&quot;</td>
</tr>
<tr>
<td>Person Capacity</td>
<td>12</td>
</tr>
</tbody>
</table>

### Boat Options
- **STANDARD FEATURES**
  - **Fishing**
    - Baitwell w/ LED Lighting (25 gal. Transom)
    - In-Floor Fish Box (w/ Advanced Vacuum Pump)
    - Insulated Bow Fish Boxes
  - **Plumbing**
    - Automatic Bilge Pump (2000 GPH Aft and 750 GPH Forward)
    - Freshwater Shower (2) – (Transom and Head)
    - Freshwater Tank 14 gal.
    - High Speed Live well Pickup
    - Pullout Freshwater Faucet - Head
    - Raw Water Washdown
  - **Seating**
    - Flip Flip Lounge Seat w/ Storage, Built-In Insulated Cooler & Removable Cooler
    - Port Side AFT Fold Out Seat (38")
    - STB Aft Facing Seat
  - **Storage**
    - Anchor Locker (Finished Fiberglass w/ Anchor Management System)
    - Battery Storage (Bilge Compartment)
    - Fiberglass Console Storage
    - Glove Box (Helm)
    - In Floor Ski Locker (Mid-Ship)
    - Recessed Rod Storage (STB Side)
    - Storage Center In STB Passenger Seat Pod
  - **Electrical**
    - 12 Volt DC Accessory Plug
    - Accessory Switch Panel w/Circuit Breakers
    - Compass
    - Electric Horn
    - Full Digital Instrumentation
    - Fully NEMA Compliant
    - Fusion/Wet Sounds Stereo System w/USB Port
    - LED Anchor Light
    - LED Cockpit & Bilge Lighting
    - LED Navigational Flip Up Bow Light
    - Fender Cleats (4)
    - Flush Mount Hinges, Latches & Deck Plates
    - Heavy Duty SST Bow & Stern Eyes
    - Heavy Duty SST Rub Rail
    - Marine Grade SST Hardware
    - Sailfish Engraved Transom Plate
    - SST & Bronze Thru Hull Fittings
    - SST Flush Mount Pull Up Cleats (6)
    - SST Propeller(s)
    - SST Rod Holders (4)

### STB Options
- **STB Aft Facing Seat**
  - **Storage**
    - Anchor Locker (Finished Fiberglass w/ Anchor Management System)
    - Battery Storage (Bilge Compartment)
    - Fiberglass Console Storage
    - Glove Box (Helm)
    - In Floor Ski Locker (Mid-Ship)
    - Recessed Rod Storage (STB Side)
    - Storage Center In STB Passenger Seat Pod
  - **Electrical**
    - 12 Volt DC Accessory Plug
    - Accessory Switch Panel w/Circuit Breakers
    - Compass
    - Electric Horn
    - Full Digital Instrumentation
    - Fully NEMA Compliant
    - Fusion/Wet Sounds Stereo System w/USB Port
    - LED Anchor Light
    - LED Cockpit & Bilge Lighting
    - LED Navigational Flip Up Bow Light
    - Fender Cleats (4)
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    - SST Flush Mount Pull Up Cleats (6)
    - SST Propeller(s)
    - SST Rod Holders (4)

### Options
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  - 12 Volt Refrigerator (Must Order Galley Pack)
  - 2 Additional Rod Holders (In Splashwell)
  - Additional Table Base
  - Bow & Cockpit Covers
  - CL7 (C Series Motors Only)
  - CL7 (C Series Motors Only)
  - Hard Top Enclosure (3 Piece)
  - In-Floor Rod Storage (2)
  - Power Assist Steering
  - Removable Bow Table
  - Two Tone Hard Top
  - Underwater LED Lights (2)
  - Lewmar Bow Pre-Wire
  - VesselView 703
  - Windlass w/ Polished Roller, SST Scuff Plate, SST Anchor, Rope & Chain
  - Windshield Wiper (Captain's Side) w/ Fresh Water
- **Engine Options**
  - **Yamaha**
    - F200XB
    - F250XB
    - F300XB
    - F300XA
    - White Painted Motor (300HP Only)
  - **Mercury**
    - 200XL DTS
    - 260XL DTS
    - 300XL DTS
    - White Painted Motor (200HP and Up)
- **Hardware Options**
  - **Ski Tow Bar (Retractable)**
  - **Plumbing Options**
    - Electric Marine Head w/Holding Tank (with deck pump-out fitting)
    - Piping System (For Hard Top only)
    - Porta Potti
    - Porta Potti (Pump Out)
- **Seating Options**
  - Bow Filler Cushion
  - Capt. Chair Upgrade (Adjustable Height Pedestal & Flip Up Arm Rest)
  - STB Side Aft Fold Out Seat (38")
- **Optional Packages**
  - **Entertainment Package** - Ski Tow Bar, Removable Bow Table, Fusion Transom Remote Control & Underwater LED Lights (2)
  - **Galley Pack** - Sink, Corian Countertops, Storage, Cutting Board & Removable Cooler
  - **HFP** - (Hard Top w/PFD Storage & Transom Rod Holders)
### SAILFISH BOAT TRAILER MEASUREMENT CHART:

<table>
<thead>
<tr>
<th>Boat Models</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
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</thead>
<tbody>
<tr>
<td>208CC</td>
<td>78 in.</td>
<td>53 in.</td>
<td>28 in.</td>
<td>11 in.</td>
<td>82 in.</td>
<td>218 in.</td>
<td>235 in.</td>
<td>27 in.</td>
</tr>
<tr>
<td>1900BB</td>
<td>88 in.</td>
<td>66 in.</td>
<td>37 in.</td>
<td>10.5 in.</td>
<td>99.5 in.</td>
<td>198 in.</td>
<td>217 in.</td>
<td>24 in.</td>
</tr>
<tr>
<td>2100BB</td>
<td>88 in.</td>
<td>66 in.</td>
<td>37 in.</td>
<td>10.5 in.</td>
<td>99.5 in.</td>
<td>220 in.</td>
<td>240 in.</td>
<td>24 in.</td>
</tr>
<tr>
<td>220CC &amp; 220WAC</td>
<td>87 in.</td>
<td>59 in.</td>
<td>31 in.</td>
<td>14.5 in.</td>
<td>102.5 in.</td>
<td>216.5 in.</td>
<td>243 in.</td>
<td>32 in.</td>
</tr>
<tr>
<td>236CC &amp; 241CC &amp; 245DC</td>
<td>91 in.</td>
<td>57.5 in.</td>
<td>30 in.</td>
<td>14 in.</td>
<td>103 in.</td>
<td>250 in.</td>
<td>273 in.</td>
<td>36 in.</td>
</tr>
<tr>
<td>240CC &amp; 240WAC &amp; 242CC</td>
<td>92 in.</td>
<td>59 in.</td>
<td>31 in.</td>
<td>15 in.</td>
<td>107 in.</td>
<td>241 in.</td>
<td>272 in.</td>
<td>30 in.</td>
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<tr>
<td>270CC &amp; 270WAC</td>
<td>94 in.</td>
<td>59 in.</td>
<td>31 in.</td>
<td>15 in.</td>
<td>107 in.</td>
<td>268 in.</td>
<td>302 in.</td>
<td>30 in.</td>
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<td>272CC &amp; 276DC</td>
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<td>61 in.</td>
<td>32 in.</td>
<td>15 in.</td>
<td>109 in.</td>
<td>287 in.</td>
<td>321.5 in.</td>
<td>38 in.</td>
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<tr>
<td>275DC</td>
<td>94 in.</td>
<td>59 in.</td>
<td>31 in.</td>
<td>15 in.</td>
<td>107 in.</td>
<td>268 in.</td>
<td>302 in.</td>
<td>30 in.</td>
</tr>
<tr>
<td>290CC</td>
<td>94.5 in.</td>
<td>61 in.</td>
<td>32 in.</td>
<td>15.5 in.</td>
<td>107 in.</td>
<td>301 in.</td>
<td>336 in.</td>
<td>30 in.</td>
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<tr>
<td>320CC &amp; 320EXP &amp; 325DC</td>
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<td>65 in.</td>
<td>33 in.</td>
<td>16.5 in.</td>
<td>115 in.</td>
<td>315 in.</td>
<td>349 in.</td>
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<tr>
<td>360CC</td>
<td>119 in.</td>
<td>72 in.</td>
<td>36 in.</td>
<td>20.1 in.</td>
<td>135 in.</td>
<td>383.34 in.</td>
<td>417.5 in.</td>
<td>48.19 in.</td>
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</table>
# Sailfish 245 DC Boat Layout

## Key

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Boarding Ladder / Fresh Water Fill</td>
</tr>
<tr>
<td>2</td>
<td>Bilge Access</td>
</tr>
<tr>
<td>3</td>
<td>Aft Folding Seat</td>
</tr>
<tr>
<td>4</td>
<td>Fuel Sender and Pick-Up Access</td>
</tr>
<tr>
<td>5</td>
<td>25 Gallon Livewell</td>
</tr>
<tr>
<td>6</td>
<td>Port Side Aft Fold-Out Seat</td>
</tr>
<tr>
<td>7</td>
<td>Fish Boxes/Storage</td>
</tr>
<tr>
<td>8</td>
<td>Fuel Fill</td>
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</tbody>
</table>

## Description

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>9</td>
<td>Lounge Seat</td>
</tr>
<tr>
<td>10</td>
<td>Head Area</td>
</tr>
<tr>
<td>11</td>
<td>Floor Storage</td>
</tr>
<tr>
<td>12</td>
<td>Helm Storage Compartment</td>
</tr>
<tr>
<td>13</td>
<td>Anchor Locker</td>
</tr>
<tr>
<td>14</td>
<td>Helm Area</td>
</tr>
<tr>
<td>15</td>
<td>Starboard Aft Facing Seat</td>
</tr>
<tr>
<td>16</td>
<td>Optional Starboard Aft Fold-Out Seat</td>
</tr>
</tbody>
</table>
Boat Safety & Warning Labels

Warning Labels

The safety for you and everyone on board, as a boat owner, you need to become familiar with and the locations of the Caution, Warning and Danger Labels found on your boat.

Below are images of the labels to help you maintain and operate your boat safely.

![Warning Label 1](image1.png)

**WARNING**

ROTATING PROPELLER MAY CAUSE SERIOUS INJURY OR DEATH.
SHUT OFF ENGINE WHEN NEAR PERSONS IN THE WATER.

**WARNING**

Carbon monoxide (CO) can cause brain damage or death.
Engine and generator exhaust contains odorless and colorless carbon monoxide gas.
Signs of carbon monoxide poisoning include nausea, headache, dizziness, drowsiness, and lack of consciousness.
Get fresh air if anyone shows signs of carbon monoxide poisoning.
See Owner's Manual for information regarding carbon monoxide poisoning.

![Warning Label 2](image2.png)

**WARNING**

ROTATING PROPELLER MAY CAUSE SERIOUS INJURY OR DEATH.
DO NOT APPROACH OR USE LADDER WHEN ENGINE IS RUNNING.

**DANGER**

Carbon monoxide (CO) can cause brain damage or death.
Engine and generator exhaust contains odorless and colorless carbon monoxide gas.
Carbon monoxide will be around the back of the boat when engines or generators are running.
Move to fresh air, if you feel nausea, headache, dizziness, or drowsiness.
Warning Labels Continued

The safety for you and everyone on board, as a boat owner, you need to become familiar with and the locations of the Caution, Warning and Danger Labels found on your boat.

Below are images of the labels to help you maintain and operate your boat safely.
Replacement Warning Labels

If any of your Boating Safety or Warning Labels become damaged, please call Sailfish Boats’ parts department for replacement stickers at 229-377-2125.
Unassisted Boarding Instruction

When using the ladder in an unassisted boarding situation, reach over the transom and open the covering board lid that is covering the ladder, pull ladder towards you, by picking up the ladder by the steps, release the strap, deploy the four step ladder by rotating it to the down position. Use your hand or foot to fully extend the ladder in the down position. Use the grab handle and ladder to board your boat. When fully onboard, be sure to place the ladder back in the storage position by reversing the deployment process.
Battery Selector Panel and Wiring

Battery 1
Battery 2

15A  5A  10A

1  2  3  4
Breaker Panel Schematic

Download High Resolution Diagram
Switch Panel Schematic

Download High Resolution Diagram
Fuel System Layout

Key | Description
--- | ---
1 | Primer Bulb
2 | Fuel Filter Access
3 | Fuel Tank Location
4 | Fuel Pickup
5 | Fuel Sender
6 | Fuel Fill
245 Dual Console

1. Bilge Pumps
2. Livewell Pump/ Highspeed Pickup
3. Fresh Water Pump
4. Fresh Water Tank
5. Fresh Water Fill
6. Raw Water Pump
7. Raw Water Washdown
8. Optional Galley Freshwater Sink
9. Head Freshwater Sink
10. Fresh Water Marine Head
11. Fishbox Drains
12. Livewell
13. Transom Shower
14. Waste Tank
15. Dockside Pumpout and Vent
16. Ski Locker Deck Drain
17. Aft Fishbox Deck Drain
18. Deck Drains
19. Aft Fishbox Drain
20. Gulper Pump
### Helm Area

#### Key

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1</td>
<td>Compass</td>
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<td>2</td>
<td>Cell Phone Holder</td>
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<td>3</td>
<td>Optional Garmin Electronics</td>
</tr>
<tr>
<td>4</td>
<td>Brand Specific Motor Guages</td>
</tr>
<tr>
<td>5</td>
<td>Switch Panel</td>
</tr>
<tr>
<td>6</td>
<td>Optional Fusion Stereo</td>
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<tr>
<td>7</td>
<td>Glove Compartment</td>
</tr>
<tr>
<td>8</td>
<td>USB Port</td>
</tr>
<tr>
<td>9</td>
<td>Courtesy Lights / Wiper Switches</td>
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<tr>
<td>10</td>
<td>Uflex Tilt Helm</td>
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<tr>
<td>11</td>
<td>Optional Garmin VHF</td>
</tr>
<tr>
<td>12</td>
<td>Power Assist Steering Controls</td>
</tr>
<tr>
<td>13</td>
<td>Trim Tab Actuator Switches</td>
</tr>
<tr>
<td>14</td>
<td>Binnacle (Mercury)</td>
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<tr>
<td>15</td>
<td>Ignition Switches and Emergency Shut-Off Lanyard</td>
</tr>
<tr>
<td>16</td>
<td>Cup Holder</td>
</tr>
</tbody>
</table>
UFLEX Steering System

UFLEX has been the choice for steering for Sailfish boats for the last three years because of the quality of the USA built products.

Every helm comes standard with a full stainless steel shaft; cylinders are built with carbon steel pistons, coupled with extra-large end caps to prevent leakage.

All of their connection materials are 304 stainless steel that has been electro-polished and passivated.

For more information on the service and maintenance of your UFLEX system please refer to your UFLEX owner’s manual or view it electronically at http://uflexusa.ultraflexgroup.com/public/File/UFLEX2013_USA.pdf
Ignition Switches, Engine Shut-off Cord/Lanyard

Each Sailfish boat will be equipped with a Yamaha or Mercury ignition switch with an emergency engine shut off cord/lanyard.

This lanyard should be worn at all times while operating the vessel, if the vessel operator falls or moves a unsafe distance away from the helm controls the lanyard will pull out causing the engine to shut down.

Make sure the lanyard is not attached to a part of your clothing that could be easily torn free causing the switch not to pull. See your YAMAHA or MERCURY owner’s manual for more information on this safety feature.

Engine Break-In Period

Each new outboard motor will need to go through a break in period to make sure all of the internal moving parts and components have a chance to correctly mate.

For more information on the break in period specific to your engine please refer to your YAMAHA or MERCURY Owner’s manual.
Plug and Play Wiring
Deutsch Connectors are quick disconnect plugs used for durability and ease of replacing components in your Sailfish Boat.

These water resistant plugs are for use in electrical systems where moisture, salt spray, dirt and dust could affect the electrical connections or systems.

Fuel-Water Separator
Sailfish has rigged either Yamaha or Mercury, (Verado Only), water fuel separators in the bilge compartment. Each engine will have its own filter. These filters can be accessed through the bilge access doors, in the back of the boat. For more information on these filters, please review your Yamaha or Mercury Owner’s Manuals.
Console/Head Area

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Standard Horn</td>
</tr>
<tr>
<td>2</td>
<td>Large panel for easy access to Console Components</td>
</tr>
<tr>
<td>3</td>
<td>Breaker Panel</td>
</tr>
<tr>
<td>4</td>
<td>Available with optional Porta Potti or Electric Marine Head</td>
</tr>
</tbody>
</table>
Bilge Access and Explanation

The bilge of your boat can be accessed through the large door in the aft of the boat. This large door allows easy access to many of the boat's components.

You may also access it through the two access plates in the splash-well.

The bilge area of your sailfish boat should be checked before, during and after each operation.
Bilge Pumps

All Sailfish Boats are furnished with Rule Bilge Pumps. The Rule 2000 GPH (gallon per hour) pump has a built-in automatic float switch. This is engaged when the water level rises in the bilge and the float rises in the pump causing the pump to turn on.

These pumps can be tested by turning them upside down, the pump should turn on, once turned back over it will run for a few more seconds and then shut off. The pumps also have a manual switch function on the main switch panel.

These pumps are wired into your boat bypassing the battery switch so that they have power at all times, this allows the automatic feature to work while you are away from the boat and the batteries are turned off.

Sailfish boats 241CC and larger are equipped with a forward bilge pump that is an electronic sensor pump.

These pumps have a state of the art internal water sensor that detects water and automatically activates the pump when there is enough present to be pumped out. These pumps can be tested by placing your finger over the “Test Area” on the back of the pump for 5 seconds, the pump will turn on to let you know it is functioning correctly.

All wiring and switches to these pumps are the same as the Rule 2000GPH pumps.
Raw water Washdown system

The raw water wash down on your Sailfish Boat is powered by a Shur-flo Pro Blaster Pump which creates a pressurized system, once the pump is turned on and pressure is created the pump will shut down until more pressure is needed. The raw water wash down pump can be accessed through the bilge access door in the aft of the boat.

To operate make sure the seacock is in the open position. The hose fitting for the wash down is located in the transom splash well, to use simply attach a hose with a nozzle and turn the switch on. Pressure will build up in the hose and the nozzle and as you spray the pump will continue to engage as needed.
Freshwater Washdown and Shower System

The fresh water shower system on your Sailfish Boat is powered by a Shur-flo Pro Blaster Pump which creates a pressurized system.

When the pump is turned on pressure is created to the freshwater shower, once the system is pressurized the pump will shut down until more pressure is needed.

You should allow a few seconds for the system to prime and pressurize before attempting to use the transom shower. The freshwater holding tank is located behind the fuel tank in the bilge area. The fill for this tank is located under the boarding ladder on the port side of the vessel.

The freshwater pump can be accessed through the bilge access door in the aft of the vessel.

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fresh Water Fill</td>
</tr>
</tbody>
</table>
Livewell Operation

Instructions

• Make sure the seacock in the bilge area is in the open position.

• Turn on the livewell switch.

• Adjust the black aerator in the livewell to the desired flow (shown in CLOSED picture).

• In order to fill the livewell, place the white stand pipe with the strainer into the center drain hole.

• To drain the livewell remove the stand pipe and the water will flow out the drain hole.
The 245DC is equipped with a diaphragm pump called the Gulper Grouper (pictured below right). The Whale Gulper Grouper pump has no impeller to clog or burn out. Unlike impeller pumps these have no-choke valves that easily pump out fish box waste.

They also offer long term durability, they can run dry without causing damage.

**Troubleshooting**

Electric Motor Runs but doesn’t pump
- Disconnect pump and turn off all power.
- Disconnect hoses and unscrew housings.
- Check entire hose system for blockage.
- Inspect tricuspid valves for blockage or inverted valve(s).
- If valve(s) are blocked, remove blockage, re-assemble the pump and continue use.
- If a tricuspid valve is inverted, replace with a new tricuspid valve, reassemble the pump and continue use.

If the electric motor will not operate, check that:
- The isolator switch is on.
- There is 12 volts at the battery terminals.
- The in-line fuse / circuit breaker are operational.

If the fuse / circuit breaker has blown, check for debris in pump head and clean out if necessary. Replace the fuse or re-set circuit breaker and run the pump.
Entertainment Center

The Optional Entertainment Center on the 245DC comes standard with a freshwater sink, and storage in the side.
Cleaning

The attractive surface appearance of stainless steel cannot be regarded as completely maintenance-free. Our 304 Series Stainless Steel may in fact stain, discolor, or accumulate a layer of surface contamination (dirt and grime) during the normal course of the life cycle.

Minute particles of dust and rust may adhere to the stainless steel during shipping, installation or storage at OEM or retail locations.

Also, please remember that some types of stainless steel fasteners tend to “bleed” over the tabs and onto the boat. To achieve maximum corrosion resistance, the surface of the stainless steel must be kept clean and free of all these contaminants.

NOTE: LENCO RECOMMENDS AN ACID AND WATER SOLUTION TO CLEAN THE TRIM TAB BLADES. MARYKATE’S ON & OFF PRODUCT IS A GOOD CHOICE. RINSE THOROUGHLY UPON COMPLETION. BIODEGRADABLE, BUT PLEASE FOLLOW THE MANUFACTURER’S INSTRUCTIONS BEFORE APPLYING.

Sacrificial Anodes for your Lenco SS Trim Tabs

Be aware that stray currents in your marina or in a visiting marina can cause damage to your trim tab blades if not protected by sacrificial anodes.

- The addition of anodes on each tab will deter electrolysis.
- Do not paint under the anode or the anode itself.
- Check Anode condition frequently. Replace when necessary.

Visual inspection of system

- Periodically inspect all wires, mounting brackets, and hardware for damage.
- Make sure all mounting brackets are secure and working properly.
- Periodically test system for smooth operation.
Optional Lewmar V-700 Windlass

If your boat was has a factory installed windlass there will be a complete owners' manual in your owners packet. For more detailed information please refer to you windlass owners manual. If you have a thru hull windlass system the remote will be stored forward in the windlass hatch.

Included on this page are some maintenance recommendations and a troubleshooting guide.

Maintenance

General Recommendations

- After the first two or three anchor recoveries, check the mounting nuts to ensure that the windlass is still fastened tightly to your deck, as it should now be bedded-in.
- Regularly wash down the exterior of your windlass with fresh water.
- Examine all electrical connections for possible corrosion, clean and lightly grease as necessary.
- Anchor rode splice should be checked regularly and remade if there is any evidence of wear.
- The Gypsy should be examined on a regular basis, because it is a high wear item. The Gypsy is designed for short scopes of chain and will last longer if properly used.

Troubleshooting

Anchor Rode pays out independently while windlass is not in use
This problem is a result of not securing the anchor rode combined with the Gypsy Drive Cap being slack. Tighten the Gypsy Drive Cap using the tool provided and always secure the anchor rode independently of the windlass whenever it is not being deployed or recovered.

Electrical Troubleshooting
As with most electrical marine equipment the majority of problems that arise are electrical in nature. Therefore it is essential that the proper voltage be maintained. The proper voltage on a 12 Volt system is 13.5 Volts. (Constant low voltage will destroy the motor). Ensure that electrical cable size is large enough to handle the current draw imposed upon it and keep the voltage drop within acceptable limits. In any circumstance voltage drop due entirely to cable resistance should not exceed 10%.

Follow the charts on the following page to troubleshoot the problem.
### Lewmar V-700 Windlass Troubleshooting Chart

#### Failure to Operate Troubleshoot Chart: Reversing Toggle Control Switch (Part No. 0052519)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there voltage at the input terminal (positive) to the control switch?</td>
<td>If no voltage is present, the battery isolation is OFF, the breaker is tripped or a fuse has blown. The battery may also have been dead or disconnected.</td>
</tr>
<tr>
<td>Yes ▼ No ►</td>
<td></td>
</tr>
<tr>
<td>Check voltage at the output terminals of the control switch with the switch on forward then reverse.</td>
<td>Control switch is defective.</td>
</tr>
<tr>
<td>Yes ▼ No ►</td>
<td></td>
</tr>
<tr>
<td>Replace Motor</td>
<td></td>
</tr>
</tbody>
</table>

#### Sluggish Operation Troubleshoot Chart

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is windlass overloaded?</td>
<td>Ease the load and ensure the battery is well charged.</td>
</tr>
<tr>
<td>Yes ▼ No ►</td>
<td></td>
</tr>
<tr>
<td>Check the voltage across the motor leads with the windlass on.</td>
<td>There is a severe voltage drop in the circuit.</td>
</tr>
<tr>
<td>Is the voltage low? (Below 11.0V on a 12V system?)</td>
<td>Check for undersized cables, poor connections or corroded connections. Also check for resistance across the battery isolation switch or solenoid. (Feel them to see if they are heating up).</td>
</tr>
<tr>
<td>Yes ▼ No ►</td>
<td></td>
</tr>
<tr>
<td>Is the voltage correct? (Above 11.0V and anchor is not fouled.)</td>
<td>The motor is defective. Replace the motor.</td>
</tr>
<tr>
<td>Yes ▼ No ►</td>
<td></td>
</tr>
</tbody>
</table>
Optional Marine Head with Waste Tank

Type III MSD Waste Management System

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Battery</td>
</tr>
<tr>
<td>2</td>
<td>Fuse</td>
</tr>
<tr>
<td>3</td>
<td>Waste Management System</td>
</tr>
<tr>
<td>4</td>
<td>Master Switch</td>
</tr>
<tr>
<td>5</td>
<td>Controller for Waste Management System</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Toilet</td>
</tr>
<tr>
<td>2</td>
<td>Inlet</td>
</tr>
<tr>
<td>3</td>
<td>Vertical Loop Outlet</td>
</tr>
<tr>
<td>4</td>
<td>Waste Holding Tank</td>
</tr>
<tr>
<td>5</td>
<td>Vent</td>
</tr>
<tr>
<td>6</td>
<td>Deck Pumpout</td>
</tr>
</tbody>
</table>
Optional Marine Head - Tecma Nano Premium Plus

**Premium Plus Model**
The premium plus has the ADD WATER and FLUSH buttons and the tank sensor indicator located below the FLUSH button.

**Add Water**
Recommended before flushing solid waste.
- Press and release (Approx. 1 sec.)
- Adds approx. 0.5L of water
- Can be repeated but only until max amount is reached

**Flush**
Recommended for flushing liquid waste (Minimize water usage).
- Press and release (Approx. 1 sec.)
- Starts Flush Sequence
- Adds approx. .25L of water
- Macerates
- Adds .75L of water
- Refills Bowl

The toilet’s wall switch control has two primary functions:
- An ADD WATER button - Adds approximately 0.5L of water each time it is pushed momentarily. Electronics prevent overfill.
- A FLUSH button - Starts an add water and macerate sequence that runs the motor and adds water twice for maximum cleansing and minimum water usage. Sequence ends with a small amount of water added to the bowl to provide an odor trap. Recommended to minimize water use and for liquid waste disposal without adding water.
**Lighting**

- Blue backlighting of the buttons provides identification at night. Buttons shut off to preserve power if not used for an extended interval.
- A red warning light in the lower left indicates full-tank lockout protection is disabled.
- The holding tank indicator in lower right is normally green. It turns red to show the holding tank is full (or nearly full) and the flush lockout is activated.

**Flush Modes**

- The toilet has two modes of operation: Marine and Residential. It is shipped in the Marine mode, which leaves the bowl with a minimal amount of water in the trap at the bottom of the bowl.
- The Residential mode leaves the bowl with a greater amount of water, similar to a home toilet. Modes can be changed by a user (See Diagram on next page).
- The toilet also has a Sleep mode to save power (See Diagram on right).

**Sleep Mode**

- Lighting Turns off after 8 hours of non-use.
- In Sleep Mode the switch LEDs will turn off until next use.
- Pushing either button will return lighting to full brightness.
Enter Water Refill Programming Mode

- Press and Hold both buttons for 3 seconds.
- LEDs will flash, programming mode will be entered.

Marine Mode

- Within 3 additional seconds of entering programming mode, remove both fingers.
- LEDs stop flashing
- Toilet will now refill only trap at the bottom of the bowl.

Residential Mode

- Continue to Press and hold both buttons, toilet will begin to add water.
- Release both buttons after 4 or 5 seconds (recommended to minimize water use.
- LEDs stop flashing
- This sets the amount of water that will be used in future flushes.

To switch modes of operation go to the top of diagram and enter water refill programming mode.
Correct Water Level Usage

- Water usage is not adjustable in the Marine Mode.
- The recommended water level is 5” below the toilet rim. To set this in the programming mode, release your fingers 4-5 seconds after water begins flowing into the toilet. Setting the water deeper than this level creates excessive water use and fills the holding tank too quickly.
- **CAUTION:** Raw Water systems are designed to perform optimally with pumps rated at approximately 3.0 gallons per minute (similar to the pump supplied). Lower rated pumps will provide a less vigorous flush, while use of higher rated pumps will cause excessive water consumption.

Emptying the Bowl

- To empty bowl without adding water or starting a flush sequence, push and hold both buttons simultaneously until bowl contents are discharged. Pushing either button returns toilet to normal operation.

**NOTE:** Holding more than 5 seconds will start the water level programming mode.
- **CAUTION:** Refill the toilet as soon as possible after emptying the bowl. Leaving water out of the trap can result in objectionable odors.

Flush Lockout

- This toilet is equipped with an electronic holding tank level sensing feature that automatically prevents FLUSH button operation when the holding tank is full and thus, prevents waste overflow.

Single Flush Override of Flush Lockout

- If holding tank is full, system will not allow a flush to occur. (If a flush is taking place, it will be completed.) Toilet will NOT flush automatically when the tank level indicator is red.
- This can be overridden by holding the FLUSH button for about 8 seconds. This initiates one flush and reactivates flush lockout.
- This override function is intended for emergency use only. Because the sensor is not located at the exact top of a tank, the override function can be used about 5 times before overflowing. Size and shape of the holding tank determine the actual number of times it can be used. Contact manufacturer for more detailed information.
- **WARNING:** An excess of flushes after
flush lockout is disabled can cause waste to overflow tank through plumbing. Tecma accepts no responsibility or liability for damage to equipment, or injury or death for overflow of waste holding tank when full-tank lockout is overridden. Waste holding tank should be checked after using Nano in override mode.

Disabling / Re-Enabling Lockout Protection

- Flush Lockout normally occurs when the holding tank becomes almost full. When this occurs, pushing the flush button causes tank symbol to flash, but does not cause a flush.
- **CAUTION**: Disabling the Toilet Lockout Function can cause overflowing of the waste tank. *Emergency Use Only!*

### ENABLING LOCKOUT
- Press both buttons twice.
- Unlock symbol Light Turns off.
- Lockout is enabled.

### DISABLING LOCKOUT
- Press both buttons twice .5<, <1.0 seconds 2 times.
- Unlock symbol light turns on
- Lockout is disabled.
- **NOTE**: This red symbol will remain on as long as lockout is disabled, even if the holding tank is emptied.

### CLEANING

**Maintenance**

**CLEANING**

Use Thetford’s Aqua-Clean, a non-abrasive, all-purpose cleaner, on the bowl and macerator pump. It is specially formulated and thoroughly tested to be safe for all components of your toilet system. It safely removes iron stains and hard water deposits and can be safely used on many other surfaces, including countertops, sinks, showers and tubs. Just squeeze Aqua-Clean onto surface. Allow to sit a few minutes and clean with a sponge. For severely soiled toilets, allow Aqua-Clean to soak overnight.

Never use household cleaners, which can contain bleach, in the toilet system. Household toilet bowl cleaners contain harsh acids. Bleach, petroleum-based products, strong acids and abrasives can cause irreversible damage to the toilet system and components.

**WINTERIZING**

Use only propylene glycol based, non-toxic antifreeze when storing toilet during freezing conditions. Never use automotive antifreeze or windshield washer solvent to winterize. Make sure that both the entire supply and discharge systems are thoroughly winterized to ensure complete protection for your system.
### Storage
When storing the system for more than two weeks, thoroughly clean toilet and hoses by flushing with Thetford’s Aqua-Kem, EcoSmart or Aqua-Clean.

### Seasonal Start-Up
Test toilet before using by flushing the toilet to check operation. Verify that there are no leaks.

### Tissue
To facilitate flushing, it is recommended that you only use toilet tissues specifically designed to desintegrate rapidly (unlike household tissues), such as Thetford’s Aqua-Soft (2-ply) and RV/Marine Toilet Tissue (1-ply).

### Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Action/Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toilet does not flush or flush performance is poor</td>
<td>Waste tank is full</td>
<td>Empty waste tank before continuing to use toilet.</td>
</tr>
<tr>
<td></td>
<td>Clog at pump inlet</td>
<td>Clear clog. DO NOT flush foreign objects.</td>
</tr>
<tr>
<td></td>
<td>Solid object in macerator</td>
<td>DISABLE power. Attempt to remove object. If unsuccessful, contact Tecma Service (+39 0744 709071). DO NOT flush foreign objects.</td>
</tr>
<tr>
<td></td>
<td>Low voltage</td>
<td>Check that toilet supply voltage is 12V+/-2V (24V+/-2V) AND that there is no more than a 10% decrease in voltage when macerator is running. If voltage decreases more than this, there may be a wiring problem in the boat.</td>
</tr>
<tr>
<td>Water does not enter bowl during flush or water add cycle</td>
<td>Water supply line kinked or not connected</td>
<td>Check that supply line is properly connected to fresh water supply. Check for kinks in the supply line.</td>
</tr>
<tr>
<td></td>
<td>No power to water pump</td>
<td>Check that fuse/circuit breaker has not tripped. Ensure all electrical connectors to water pump are fully mated.</td>
</tr>
<tr>
<td></td>
<td>Water supply has been turned off</td>
<td>Open water supply valves or reconnect power to supply pump.</td>
</tr>
<tr>
<td></td>
<td>Solenoid not plugged into relay module (where applicable)</td>
<td>Ensure wiring harness to solenoid is fully connected.</td>
</tr>
<tr>
<td>Water continues dripping briefly into bowl after flush cycle is complete</td>
<td>Toilet is installed below water line with vented loop in water supply line</td>
<td>Normal operation – if only a small amount of water drips from nozzle.</td>
</tr>
<tr>
<td>Bowl drains dry after flush</td>
<td>Water is siphoning out of bowl due to discharge hose pulled down</td>
<td>Discharge hose from macerator pump is pulled down. Straighten hose so that top of discharge hose is in line with toilet nozzle.</td>
</tr>
</tbody>
</table>
Optional Porta Potti

Prepare Unit

- Separate tanks (Fig. 1A & 1B).
- Add Deodorant (Fig. 2A & 2B) and 4-oz of water.
- Close valve (Fig. 2C).
- Recombine Tanks (Fig. 3)
- Fill upper tank with fresh water (Fig. 4). Replace cap and tighten securely.

NEVER add deodorant to fresh water tank.

Before Use

Vent any built-up heat or altitude pressure and prevent splashing: close cover (Fig. 5A), and open and close holding tank valve (Fig. 5B).

To Flush

- Open Valve (Fig. 2A).
- Bellows: Fig. 6.
- Piston Pump: Fig. 7.
- Electric Flush: Fig. 8 For best rinse and efficient water use, press button quickly several times.
- Close valve completely for odor-tight seal (Fig. 2C).

Deodorizing

Recommended holding tank deodorant for best performance:

- Thetford SupremeGreen
- Thetford Aqua-Kem
- Thetford Campa-Chem

Care

Recommended cleaner: Thetford Aqua-Clean

NEVER use scouring powders, acids or concentrated cleaners, which can damage plastic parts and rubber seals.

Service & Parts

For parts and/or service, contact your RV Dealer.

For warranty issues or more information, call Thetford’s Customer Relations Department:

1-800-521-3032.
Optional Porta Potti

Emptying Waste Tank

1. DO NOT OVERFILL TANK. Empty when waste level indicator turns from green to red (Fig. 9). (Toilet without an indicator: open valve to check visually).

2. Be sure valve handle is closed. Separate tanks (Fig. 10).

3. Carry waste tank to a permanent toilet.

4. Remove Pour-Out Spout Cap while it is pointing upward (Fig. 11).

5. Press Air relief valve to prevent splashing (Fig. 12).

6. Rinse, recharge and reassemble unit.

Deodorizing
Recommended holding tank deodorant for best performance:
- Thetford SupremeGreen
- Thetford Aqua-Kem
- Thetford Campa-Chem

Care
Recommended cleaner: Thetford Aqua-Clean
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1-800-521-3032.
## Vinyl Care and Cleaning

### Step-by-Step Cleaning Instructions

<table>
<thead>
<tr>
<th>Type of Stain</th>
<th>Steps:</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Care</td>
<td></td>
<td>A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Dirt Build-Up</td>
<td></td>
<td>A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Ballpoint Ink*</td>
<td></td>
<td>E</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>Chewing Gum</td>
<td></td>
<td>D</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>Coffee, Tea, Chocolate</td>
<td></td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grease</td>
<td></td>
<td>D</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Household Soil</td>
<td></td>
<td>A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Ketchup</td>
<td></td>
<td>A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Latex Paint</td>
<td></td>
<td>A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Lipstick</td>
<td></td>
<td>A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Mildew or Wet Leaves*</td>
<td></td>
<td>C</td>
<td>B</td>
<td>A</td>
</tr>
<tr>
<td>Motor Oil</td>
<td></td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil-Based Paint</td>
<td></td>
<td>D</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Permanent Marker*</td>
<td></td>
<td>E</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Spray Paint</td>
<td></td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suntan Lotion</td>
<td></td>
<td>A</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Tar / Asphalt</td>
<td></td>
<td>D</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Yellow Mustard</td>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
</tbody>
</table>

### Legend

A. Medium-Soft brush, warm soapy water, Rinse / Dry

B. Vinyl Finish Vinyl Cleaner®, Rinse / Dry

C. One (1) tablespoon of ammonia; one-fourth (1/4) cup of Hydrogen Peroxide, three-fourth (3/4) cup of water, Rinse / Dry

D. Wipe or scrape off excess (chill gum with ice before hand)

E. Hemisphere Ink Remover, Rinse / Dry

### Do’s & Don’ts

**Do’s**
- Vinyl Finish Vinyl Cleaner
- Dish Soap (Dawn, Ivory)
- Fantastik
- 303 Aerospace Protectant

**Don’ts**
- Formula 409
- Murphy’s Oil Soap
- Simple Green
- Armor All
- Son-of-a-Gun
- Turtle Wax / Tar Remover

All cleaning methods must be followed by a thorough rinse with clean warm water.

Certain household cleaners, powdered abrasives, steel wool, and industrial cleaners can cause damage and discoloration and are not recommended. Dry cleaning fluids and lacquer solvents should not be used as they will remove printed pattern and gloss. Waxes should be used with caution as many contain dyes or solvents that can permanently damage the protective coating. *Suntan lotion, tree pollen, wet leaves, and some other products can contain dyes that stain permanently.

*Always Remove Stains Immediately!*
Caring for Aluminum - Cosmetic Corrosion (Pitting)

The information provided is designed to give you a thorough understanding of the factors that can impact the appearance of your anodized aluminum. By using this information, we hope to help you enhance the beauty and value of our products.

What Causes It?
Corrosion is a natural phenomenon that affects metals by either a chemical or electrochemical reaction. The rate at which aluminum corrodes depends greatly on the environmental conditions and the amount of preventative maintenance performed. Our goal is to slow down or stop this natural phenomenon we call pitting (or corrosion).

Anodized Aluminum
The aluminum on your boat has been anodized. This creates a very hard protective seal on the surface of the aluminum to protect it as much as possible from pitting. When the anodized coating is broken and raw aluminum is exposed, corrosion will take place. Damage from other abrasive impacts can break the anodized coating.

Chemical Attack
Corrosive chemicals containing high concentrations of acids or alkalis will remove the anodized coating. Solutions containing chlorine, salts, or ammonia are all harmful to the anodized aluminum on your boat. Many common household cleaners contain chemicals that will remove the anodizing and cause pitting.

<table>
<thead>
<tr>
<th>Avoidable</th>
<th>Unavoidable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strong acidic solutions found in cleaners, paint remover, degreasers, etc.</td>
<td>Airborne pollution. Airborne particles from local sources: vehicles, incinerators, paper mills, chemical plants, power plants, etc.</td>
</tr>
<tr>
<td>Concentrated alkaline based solutions. Many concentrated soaps fall into this category.</td>
<td>Harsh chemicals from work performed at local shipyards and dry docks.</td>
</tr>
<tr>
<td>Chlorine, sulfurs, solvents and ammonia based products.</td>
<td>Be aware of local sources that can expose your new boat to corrosive chemicals.</td>
</tr>
</tbody>
</table>
Caring for Aluminum

Tips
Avoid the use of bleach or chlorides to clean the aluminum or nearby components. Chlorides can leach onto the aluminum when used nearby.

Avoid abrasive cleaning products. Never use steel or brass wool, wire brushes, polishing wheels, rubbing or polishing compounds. These items will remove the anodizing and lead to pitting.

Protective Products
There are many different products available to protect aluminum. Some are designed to seal and protect before problems occur and others are designed to use after pitting has appeared.

While these products are effective, they are not one time solutions. Metal protectors must be reapplied on a regular basis. How often a protector should be used varies according to the protector you choose, the types of exposure your boat is subjected to, and how often you use and wash your boat. Follow the application guidelines provided with the protector you choose.

Harmful Cleaners
Bleach (Chlorox, etc.)
Mild abrasive cleaners (Ajax, Comet, Soft Scrub, Rubbing Compounds, etc.)
Strong cleaners (409, Engine Degreasers, Bilge Cleaners, Teak Cleaners, Bottom Cleaners, etc.)

Below are some metal protection products that are readily available at marine retailers.

<table>
<thead>
<tr>
<th>Product</th>
<th>Manufacturer</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woody Wax CPR</td>
<td>Woody Wax</td>
<td>800-619-4363</td>
</tr>
<tr>
<td>Boeshield T-9</td>
<td>PMS Products, Inc.</td>
<td>800-962-1732</td>
</tr>
<tr>
<td>Premier Polish</td>
<td>Aquatech</td>
<td>800-853-7760</td>
</tr>
<tr>
<td>Corrosion Block</td>
<td>Lear Chemical</td>
<td>800-256-2548</td>
</tr>
</tbody>
</table>
Caring for Stainless Steel

The information provided is designed to give you a thorough understanding of the factors that can impact the appearance of your anodized aluminum. By using this information, we hope to help you enhance the beauty and value to our products.

What Makes Stainless Steel Stainless?
Oxygen is the key element in causing rust, or red oxide on steel and other metals. Stainless Steel contains Chromium which reacts with the oxygen in the air to form a chrome-oxide surface layer that is invisible to the eye, but strong enough to prevent further oxygen from “staining” (rusting) the surface. Higher levels of Chromium and the addition of other alloying elements such as nickel and molybdenum enhance this surface layer and improve the corrosion resistance of the stainless material.

What Determines Different Grades of Stainless Steel?
The grade of Stainless Steel is primarily determined by the amount of the Chromium and Nickel alloys contained in the material. 304 and 316 are the prominent grades of Stainless Steel: 304 contains 1% Chromium and 8% Nickel, while 316 contains 16% Chromium and 10% Nickel and 2% Molybdenum. The Molybdenum is added to help resist corrosion to chlorides (like sea water and de-icing salts).

Can Stainless Steel rust?
Not in the way steel rusts. Steel will discolor, bubble and flake from red oxide development. Stainless Steel may develop red spots, but this is usually due to Iron particles on the surface of the Stainless Steel. Any Iron particles must be removed and the Stainless Steel cleaned with a high concentration of citric acid or a commercial cleaner specifically designed for Stainless Steel.

Is Stainless Steel Green (Environmentally Friendly)?
Stainless Steel is highly sought after by recyclers and is 100% recyclable. New Stainless Steel typically has a recycled content of between 65% & 80% which makes it one of the highest average content recycled construction materials on the planet.

Will Stainless Steel Discolor?
Cleaners that are typically used with cement, grout and stone, etc., may contain Muriatic Acid. Stainless Steel is not resistant to Muratic Acid. MURIATIC ACID SHOULD NOT BE USED IF STAINLESS STEEL IS PRESENT. It is not even necessary that the acid touch the Stainless Steel, just the “fumes” from it will cause a discoloration of the Stainless Steel. Other than this, Stainless Steel is usually very resistant to discoloring.
Regular cleaning with fresh water and a soft cloth will keep and protect your windshield, window, or hatch for years.

**GLASS**
Use commercially available glass cleaners or a mixture of fresh water and vinegar. Do not use abrasives, harsh chemicals, or metal scrapers. Regular cleaning will help assure clarity of the glass for safe boating.

**PLASTIC TYPE WINDSHIELDS**
Never use glass cleaning solutions or dry cloth to clean Plexiglas. Never use acetone, benzene, carbon tetrachloride, or lacquer thinner. The only acceptable cleaners are a small amount of denatured alcohol, clean water, or a commercially available plastic polisher specific for the purpose. Use a soft rag and wash off the plastic windshield first with lukewarm water to avoid scratching the surface.

**WINDOW CHANNELS**
Clean window channels with mild detergent only. Channels can be sprayed with silicon aerosol while sliding the glass back and forth.

**STAINLESS STEEL**
Polish with commercially available metal polishes. A boat or car wax periodically applied will offer extra protection against the elements.

**PAINTED SURFACES**
Clean with fresh water periodically. Touch up scratches and areas where paint has chipped off with touch-up spray paint. Touch up kits are available from the factory. Boat top clips – never slide along windshield framework.

To change clip location, snap on and off the aluminum top track.

**SIDE WING VENT ADJUSTERS**
Use care when opening and closing vent. Do not force.

Never ground windshield with any electrical devices or appliances.

Never use the windshield as a mooring cleat for tying off to a dock, pier or another boat. Never use the windshield as a tie-off attachment for trailering purposes.
Gel Coat

Your Boat’s Gel Coat Finish
Congratulations! You are the proud owner of a new power or sail boat. You are also the owner of a new Integrity® gel coat finish on the hull and/or topside, and we would like you to be as proud of it as we are. That beautiful, shiny new color you love is the result of many years of gel coat research, testing and development.

But as proud as we are of the gel coat, no finish is totally impervious to chemicals and weathering. Imagine what a brand new car could look like if allowed to sit at a marina for years with no cover and no washing or waxing. With the same minimum maintenance you would ordinarily give your new automobile’s finish, your boat’s gel coat finish will retain its depth of color and gloss for years.

Overall Maintenance
Normal maintenance of your gel coated fiberglass boat is similar to the care you would give your automobile. Overall, automotive cleaners and waxes work fine, as well as the marine cleaners and waxes.

Note: Do not use caustic or highly alkaline (high pH) cleaners or those containing ammonia. These type of cleaners may darken white or off-white weathered gel coat surfaces. A chemical reaction producing staining occurs if these type of cleaners are used on weathered gel coat. However, the stain may be removed with a rubbing compound or by lightly sanding with 400 grit sandpaper followed by an application of rubbing compound and a thorough waxing.

Cleaning
We recommend general washing to avoid soil build-up and staining. The soil to your gel coat is the result of regular use and environmental pollutants such as soot and smog. Periodic cleaning with a mild detergent is necessary to remove normal deposits of soil.

Waxing
From constant exposure over time to our natural environment and undesired pollutants, the gel coat begins to lose its gloss. To restore your finish to the original gloss and color requires your special attention. After washing with a mild soap or detergent, give the surface a good polishing with a self-cleaning marine or automotive wax. Waxing in the fall and spring is generally recommended to maintain and restore most of the original gloss. If the surface has not been maintained and has weathered badly, and if cleaning and waxing does not restore the finish satisfactorily, compounding will be required.

Compounding
Please see your marine dealer for advice. Polishing and compound (fine abrasive) or rubbing compound (coarser abrasive) is recommended for use on fiberglass boats to remove scratches, stains, or a severely weathered surface. Polishing or rubbing compound can be applied by hand or by pneumatic buffer. After the scratched, stained or weathered surface has been moved, it should be waxed to enhance the gloss and color while providing a seal to retard staining or new soil accumulation.

Discoloration Removal
Your marine dealer is best equipped and trained to do this work. If regular washing and waxing has been neglected, discoloration of the gel coated fiberglass surface may occur.
Discolored areas are very shallow in depth, literally right on the surface. The discoloration may be removed by gently wet-sanding the affected areas only by using 600 grit, wet or dry specially treated waterproof sandpaper. It’s important to always sand in one direction, this includes the curves too. Use plenty of water to cool and clean the sandpaper and cut back on dust. After you are finished sanding, dry the areas and verify all the discoloration has been removed. If not, repeat the process.

After all the discoloration has been removed, the area will need to be buffed. Using an electrical or pneumatic buffer, buff at low speed (1750 rpm – 2250 rpm), this will restore the luster to the sanded surface. Using a generous amount of rubbing compound, apply it in a circular motion with a soft wool pad. When buffing has been completed, wash off the rubbing compound with clean water, and dry the surface.

To restore the gloss to the affected area, use a high-grade marine or automotive wax.

**Repairs**

During the life of your boat, some damage to the gel coat surface is unavoidable. We recommend repairs done by trained, experienced professionals at your local marine dealer.

**Scratches**

If the scratch is in the gel coat surface, not penetrating the fiberglass, use an automotive polishing compound and rub it out. Apply the compound by hand using a damp rag or by using a power buffer. The scratch may not entirely disappear, but it should be noticeably better.

**Gouges and Chips**

Our recommended patching procedure is to first clean the area needing repair with an acetone solvent to remove all traces of wax and oil. Next, thoroughly mix one tablespoon of “Patch Paste” with two or three drops of catalyst on a scrap piece of cardboard.

Apply the mixture to the pit, chip or gouge with a single-edge razor blade, matching the surface and contour of the area being repaired. Apply slightly more mixture to avoid having to fill the damaged section a second time. Allow the patch to harden thoroughly for a minimum of two to three hours.

Using a fine grit “wet or dry” sandpaper on a sanding block, wet-sand the patch until it is level with the surrounding surface. Finish with a marine or automotive rubbing compound using the same approach as used for the scratches.

**Refinishing**

For a severely scratched or weathered fiberglass boat that is no longer restorable by using the previous methods, it may then be necessary to refinish it with two-pack- age or two-part aliphatic urethane enamel. This can be done very effectively, but it is recommended refinishing should only be done by experienced professionals.