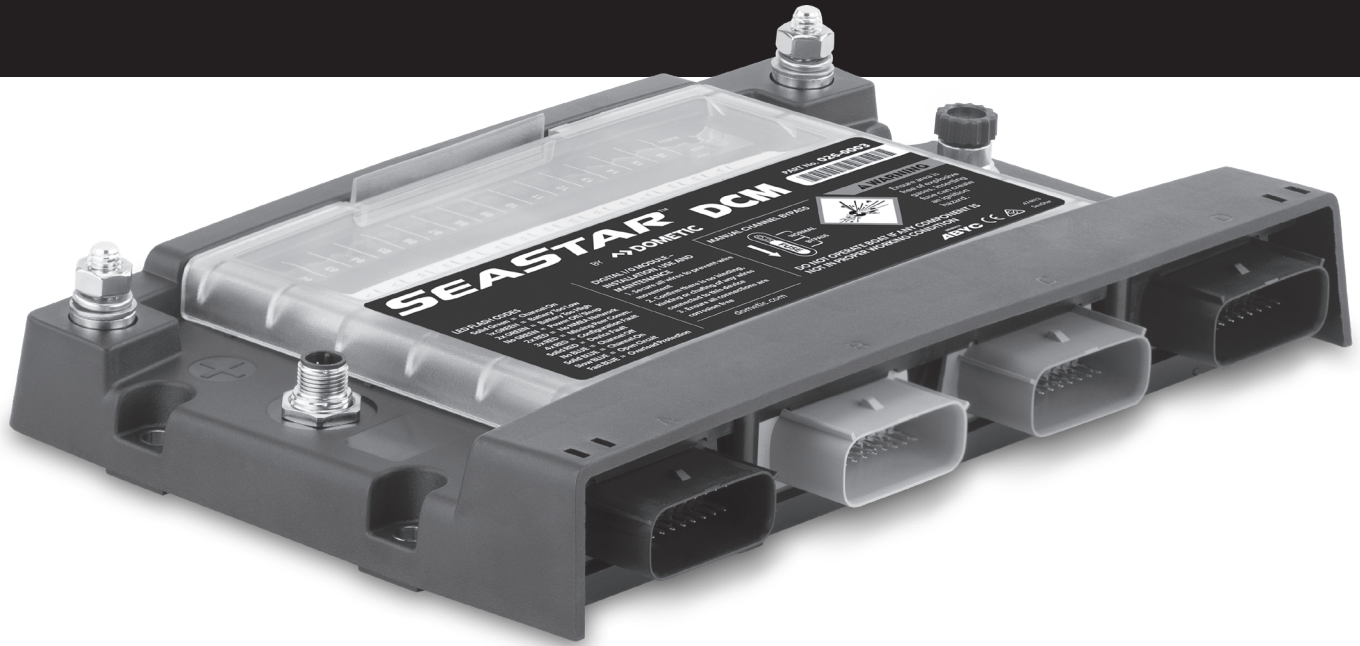


↗ DOMETIC CONTROL SEASTAR DCM



DCM Digital Switching 026-0003

EN

Product Description

User Manual and Troubleshooting Guide

WARNING

Cancer and Reproductive Harm
www.P65Warnings.ca.gov



[REVISION A] Form No. 0000000.000 mm/19 | ©2019 Dometic Corporation

SeaStar

Service Center & Dealer Locations
Visit: www.dometic.com

Read these instructions carefully. These instructions **MUST** stay with this product.

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1 Explanation of Symbols and Safety Instructions


Thank you for choosing DCM Digital Switching Controller. This User Manual and Troubleshooting Guide contains all the information that you and others will require for the safe use of the DCM Digital Switching Controller and **MUST** remain on board the boat. Throughout this manual, information for the safe use of the controller will be distinguished in one of the following ways:


1.1 Recognize Safety Information

 **This is the safety alert symbol.** It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

1.2 Understand Signal Words

A signal word will identify safety messages and property damage messages, and also will indicate the degree or level of hazard seriousness.

 **WARNING**
Indicates a hazardous situation that, if **not** avoided, could result in death or serious injury.

 **CAUTION**
Indicates a hazardous situation that, if **not** avoided, could result in minor or moderate injury.

NOTICE: *Indicates an area or subject of special merit, emphasizing either the product’s capabilities or common errors in operation or maintenance.*

1.3 Safety Information

The safety information provided below is intended to inform you of the dangers that may be present before, during and after the installation. It is critical that you read and understand ALL the points noted:

- Read and follow all safety information and instructions.
- Read and understand these instructions before [installing/ operating/ servicing] this product.

- The safe operation of the controller is dependent upon proper installation and maintenance, common sense, safe judgment and the knowledge/expertise of the operator. Every installer/user of the controller should know the following requirements 'before' installing/using the controller.
- If you have any questions regarding any of these warnings, contact Dometic.
- To reduce risk of severe injury or death. Always wear a Coast Guard Approved personal flotation device

2 General Information

The images used in this document are for reference purposes only. Components and component locations may vary according to specific product models.

3 How The System Works

Digital switching with the DCM greatly simplifies the electrical system on your boat. The system provides a cleaner dash by eliminating switches and placing them on the multi-function display. Through the display you can easily control your boat via single button touch. One touch operation modes on MFD combine different loads for smoother boat operation.

Custom modes and frequently used switches can be controlled via remote. The system can easily be turned on/off with the key fob.

3.1 DCM Features

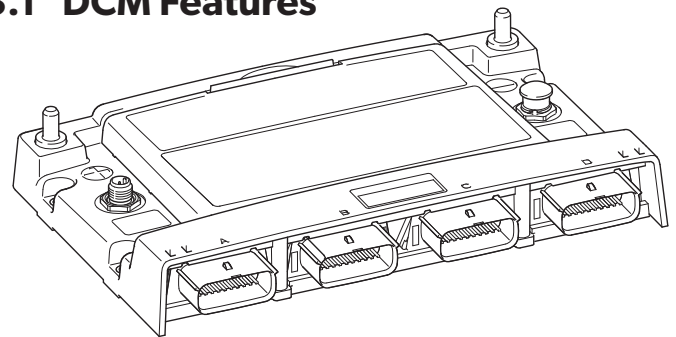


Figure 2.1. DCM

- Combined input and output channels in one module
- Touch screen compatible
- Small size and footprint
- 16x outputs channels
- 2x "always on" channels with removable fuses
- Load monitoring
- 6x analog inputs
- 16x switch inputs
- Fuse bypass available on all outputs
- Wireless remote control
- Battery management
- Voltage monitoring
- NMEA 2000 compatible
- Gateway to CAN devices

3.2 Wireless Key Fob for DCM Features

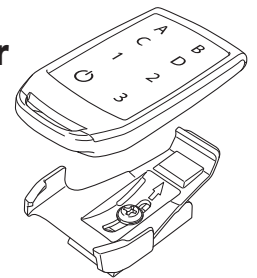
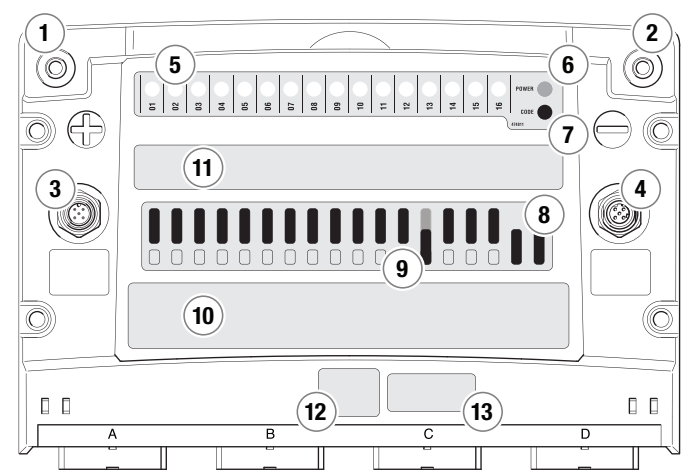


Figure 2.2. Generic key fob overlay shown. Actual overlay will look custom for your boat.

- Wirelessly connects with DCM
- Buttons pre-programmed in DCM for different operating modes.
- Multiple identical key fob's can be connected.
- Waterproof to a depth of 1 meter
- Optional dash mount holder
- 750-ft line of sight range
- 418 MHz, North America FCC certified
- Single 3V CR2032 Li cell
- Power button: Press and hold (1 sec. to turn on. 2 sec. to turn off)

3.3 Layout



Item	Name	Description
1	Positive Terminal	Connection to the house battery power.
2	Negative Terminal	Connection to the house battery ground.
3	NMEA 2000 Connector	Connection to NMEA 2000 network.
4	Ethernet Connector	Optional.
5	Channel Activity LED	LED ON shows when load is active.
6	Power LED	LED ON shows when DCM is powered.
7	Error Code LED	Error code list can be found in Section 3.1.
8	Always ON Channel Fuses	Fused output channels powered when DCM is powered.
9	Fuse Bypass	Use fuse bypass to turn the channel on in case of failure.
10	Input Channel Label	Channel inputs going to the DCM. This could be physical switches or analog sensor feedback.
11	Output Channel Label	Channel outputs and fuse values to loads controlled by DCM.
12	Serial Number Label	DCM serial number.
13	DCM Label	DCM info on: Boat model and model year / DCM part number and revision / Config part number and revision.

3.4 Key Fob Mounting Kit

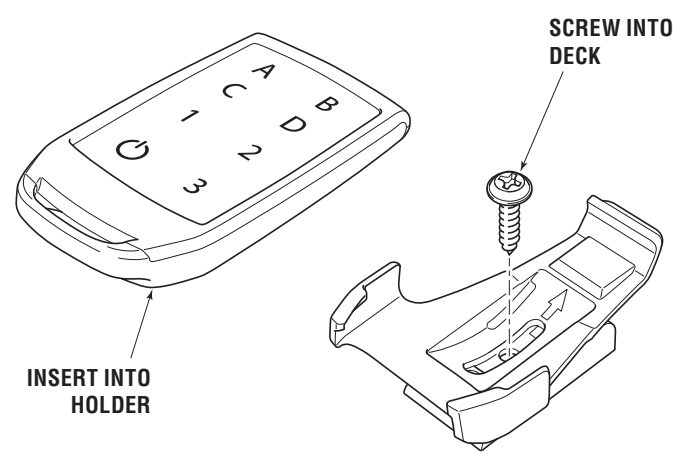


Figure 2-4. Key Fob Dash Mounting kit. NOTE: May already be installed on your boat.

3.5 Key Fob Pairing Procedure

In case your key fob lost pairing or you received a new key fob follow this procedure to pair the key fob to the DCM:

1. On the MFD Switching page find Remote Learn button.
2. Press and release the Remote Learn button on the MFD (the button is located on the MFD Switching page).
3. Press and release any button on the Key fob.
4. Wait 20 seconds for the DCM to exit programming mode.
5. The transmitter and DCM are now paired.
6. Repeat the pairing process for additional transmitters.
7. Up to 40 transmitter addresses can be stored in the DCM.

If a transmitter is lost or stolen, the user may want to clear it from the DCM’s memory so that it can no longer control the DCM.

To erase all transmitter addresses, press and hold the Remote Learn button on the MFD for 15 seconds.

Note that all transmitters must then be re-paired with the DCM.

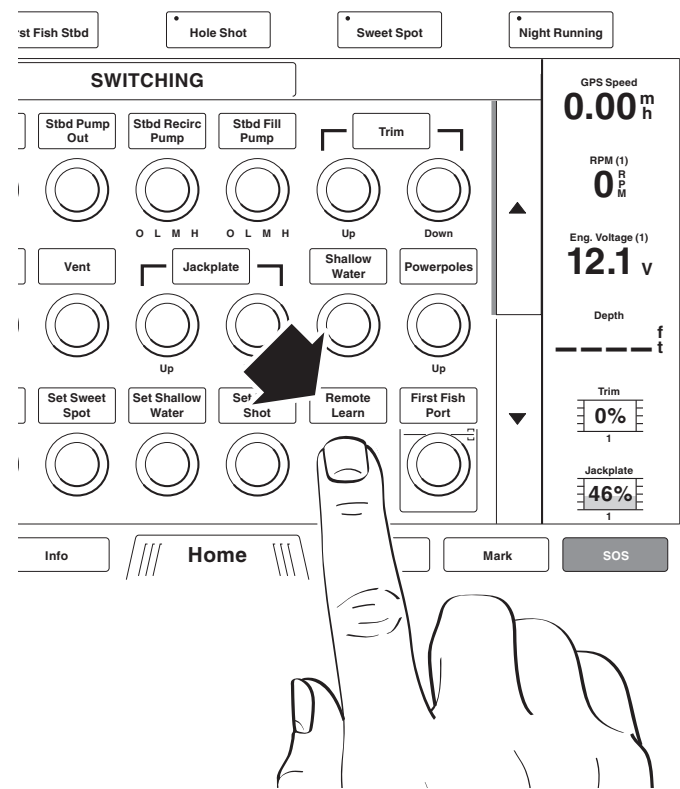


Figure 2-5.

3.6 Key Fob Battery Replacement

In order to replace the key fob battery, use the following procedure:

1. Remove the key fob from its cradle.
2. Using a small Phillips head screwdriver, remove the 4 small screws from the back of the key fob.
3. Gently, pry open and remove the back cover and rubber seal.
4. Slide the battery out as shown in figure 2-6.
5. Inset a new CR2032 battery.
6. Reassembly is the reverse procedure, ensuring the rubber seal is located correctly in the grooves and is not pinched or twisted when locating the rear cover and securing screws.

NOTICE: The key fob utilizes a CR2032 battery. Do not substitute other.

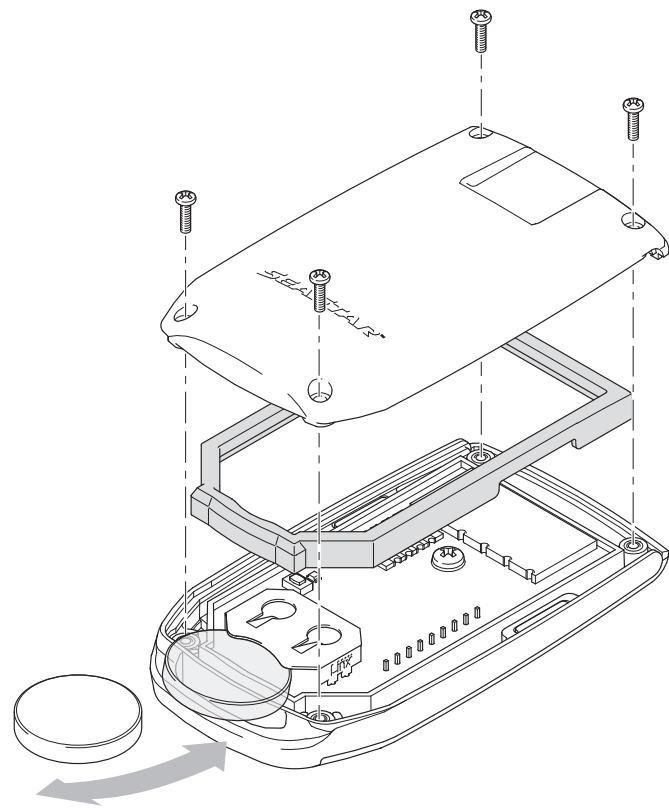


Figure 2-6. Key fob battery replacement.

3.7 Switching Pages On MFD

To access Devices controlled by the DCM on the MFD, navigate to the Switching page, through Home > OneHelm, A/V, Gauges. You will find all the devices controlled by the DCM there. In addition, some of these loads might have already been combined into Modes as predefined by your boat model. On GPS Map you can find these modes on the Switching page as indicated by the blue button. ECHOMap Modes have unique buttons with a centre symbol. They can be loaded into the Modes ribbon for easy access when on other pages on your MFD.

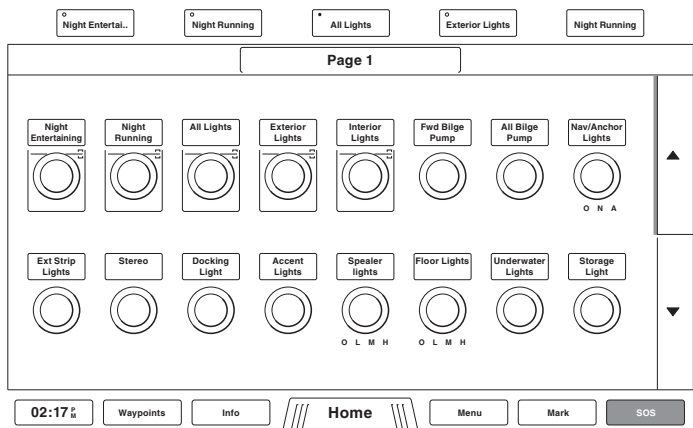


Figure 2-7. NOTE: Button layout and labels may look different on your boat.

DIFFERENT MODES ON TOP RIBBON FOR QUICK ACCESS

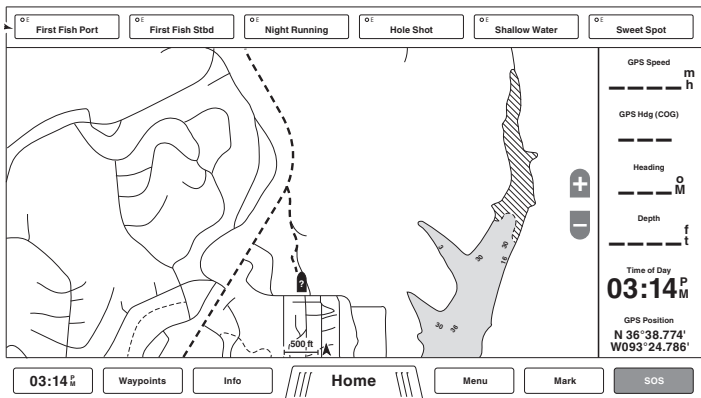


Figure 2-8. NOTE: Button layout and labels may look different on your boat.

3.8 Top/Bottom Ribbon Setup

NOTICE: Follow this same procedure for any other page you want top/bottom ribbon added.

1. Go to Switching page and select Menu.

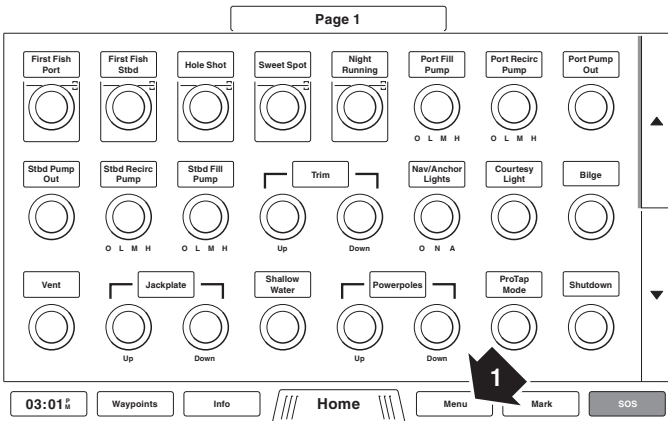


Figure 2-9. NOTE: Button layout and labels may look different on your boat.

2. Select Edit Overlays

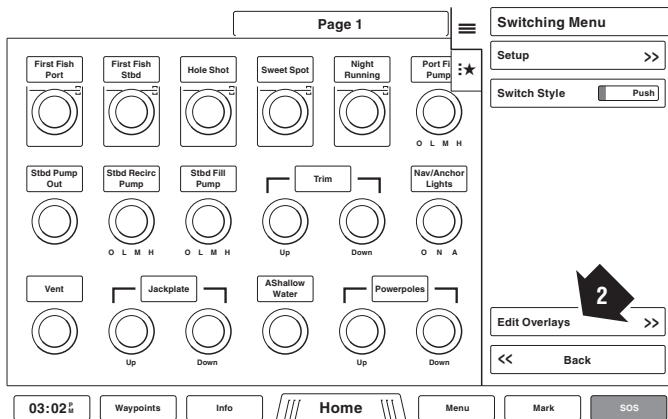
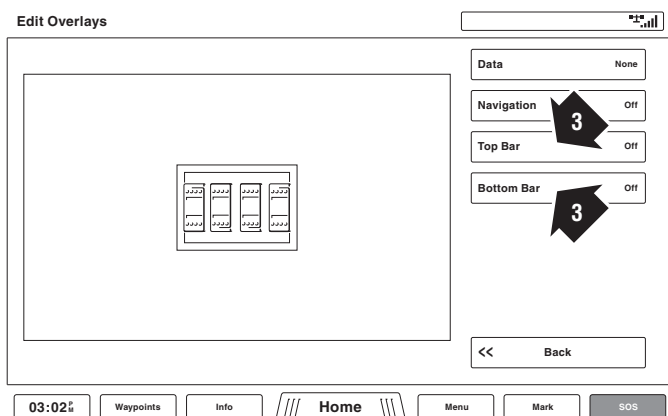


Figure 2-10. NOTE: Button layout and labels may look different on your boat.

3. Select Top Bar or Bottom Bar



4. Select Circuit Control

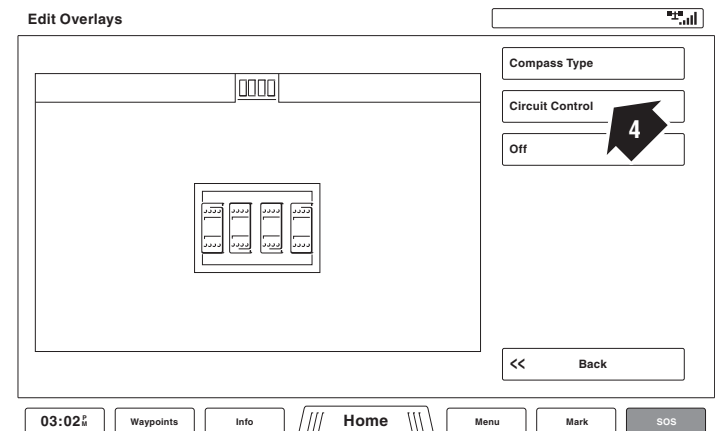


Figure 2-12

5. Quit the menu and enjoy your modes ribbon.

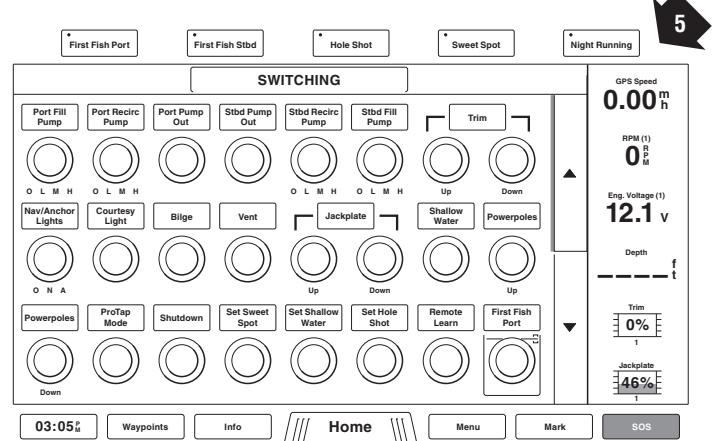


Figure 2-13. NOTE: Button layout and labels may look different on your boat.

3.9 Side Bar Setup

NOTICE: Follow this same procedure for any other page you want a side bar added to.

1. Go to Switching page and select Menu.

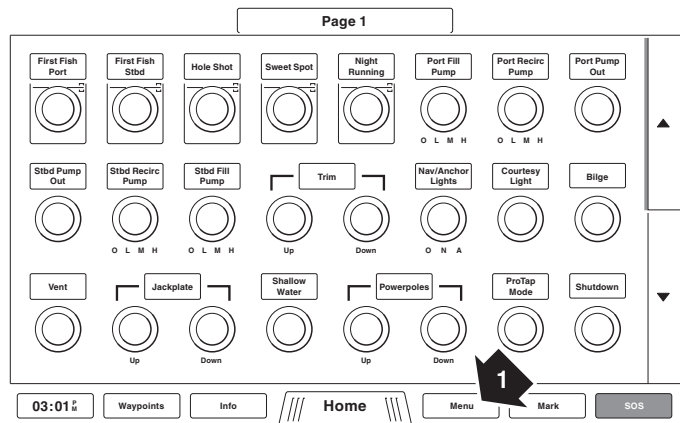


Figure 2-14. NOTE: Button layout and labels may look different on your boat.

2. Select Edit Overlays

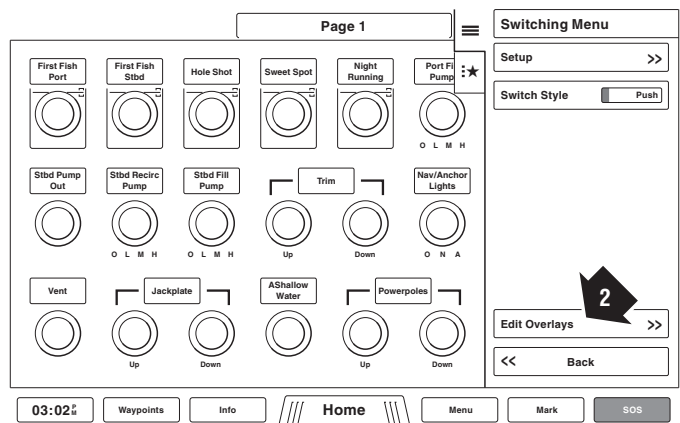
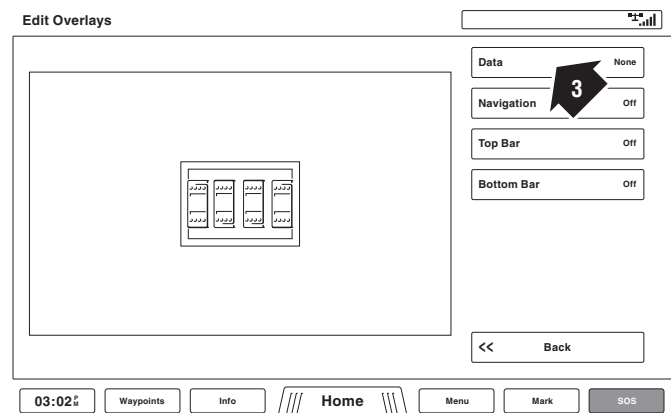


Figure 2-15. NOTE: Button layout and labels may look different on your boat.

3. Select Data



EN Figure 2-16

4. Select Side Bar, then select the data you would like shown

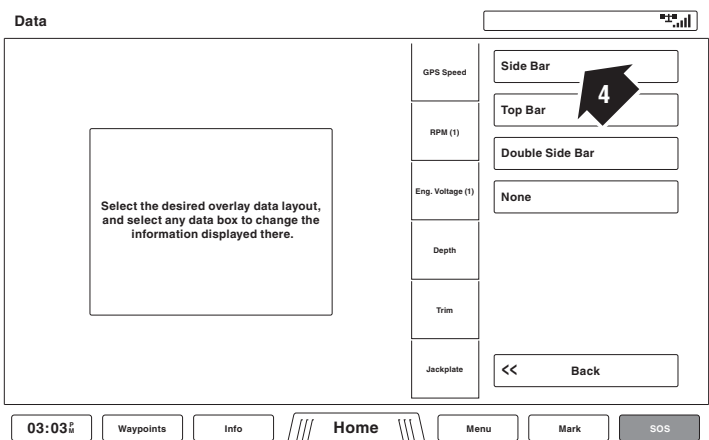


Figure 2-17

3.10 Change Switching Page Name

1. From Switching menu select Menu
2. Select Setup
3. Select Edit Page.

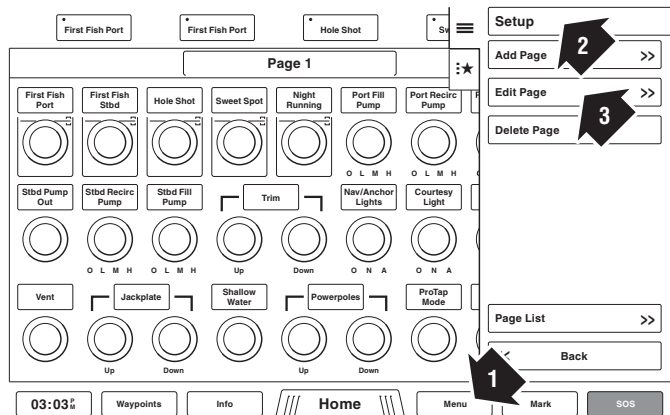


Figure 2-18. NOTE: Button layout and labels may look different on your boat.

4. Select Name

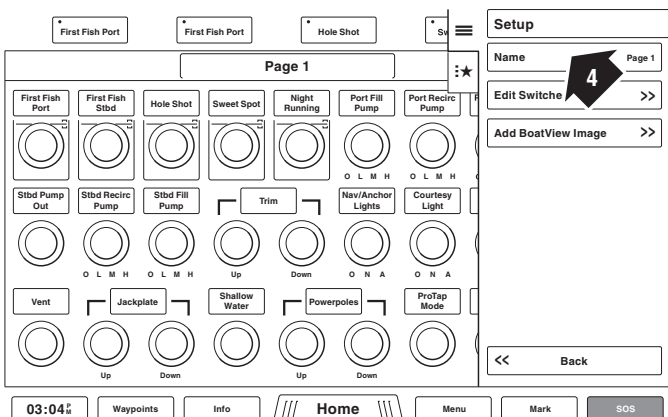
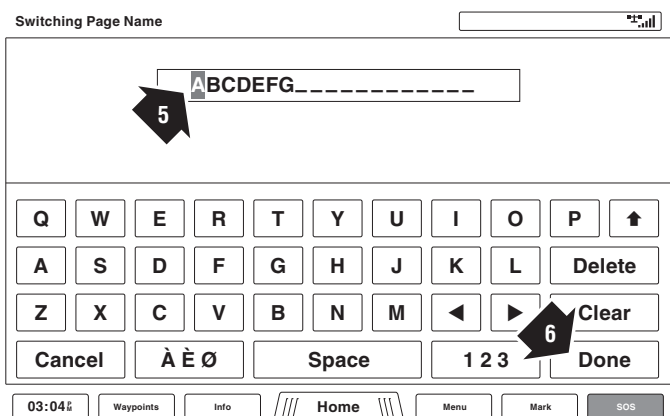


Figure 2-19. NOTE: Button layout and labels may look different on your boat.

5. Enter Desired Page Name
6. Select Done When Finished



3.11 Replace Switches

1. Select Edit Switches

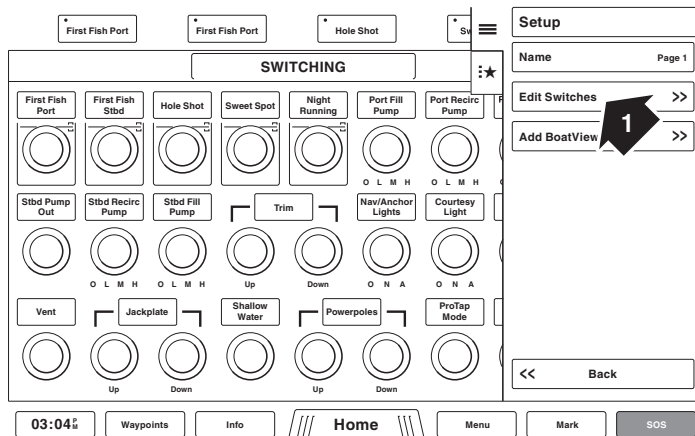


Figure 2-21. NOTE: Button layout and labels may look different on your boat.

2. Select Replace All Switches

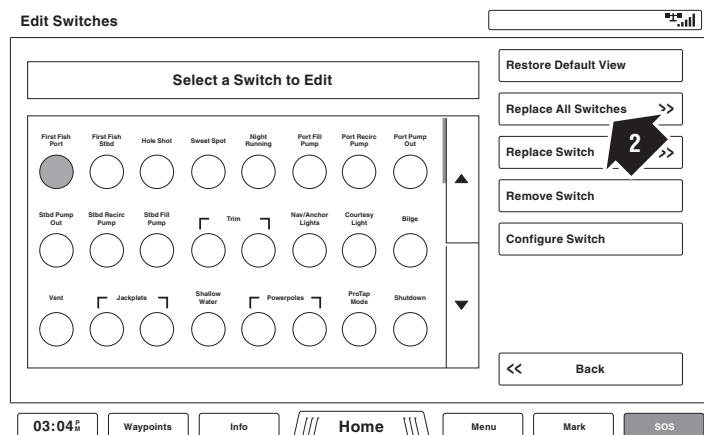


Figure 2-22. NOTE: Button layout and labels may look different on your boat.

3. Select the Mode Switches You Want Removed

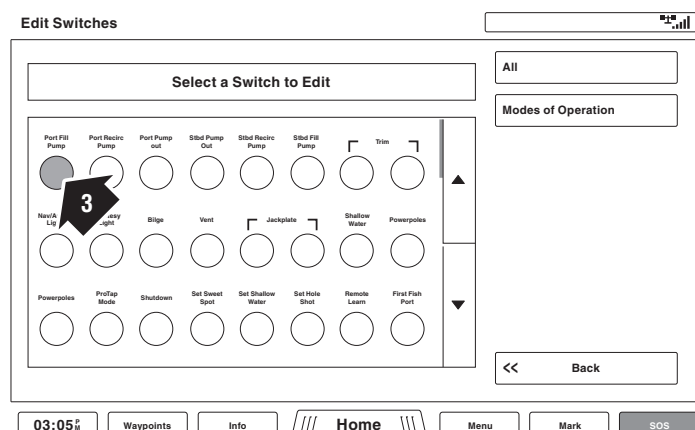


Figure 2-23. NOTE: Button layout and labels may look different on your boat.

4. Quit the menu altogether and enjoy your Switching screen

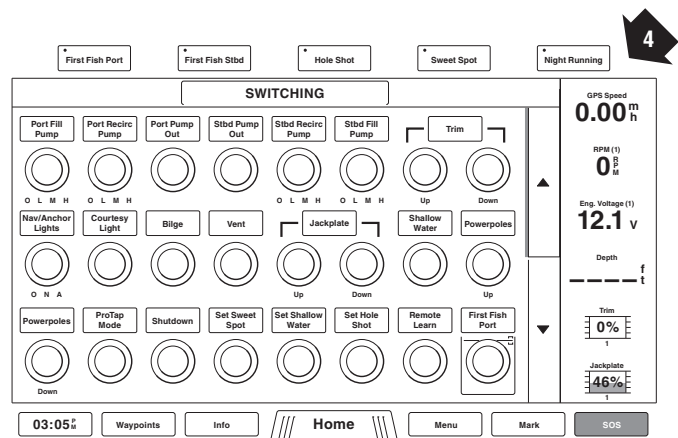


Figure 2-24. NOTE: Button layout and labels may look different on your boat.

3.12 Edit Switch Name

NOTICE: This function is *ONLY* available with DCM software Rev. G or later.

- 1. Go to Switching page and Select Menu.
- 2. Select Setup

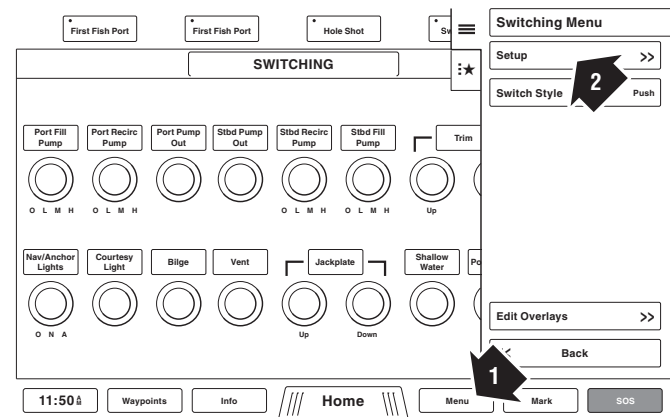


Figure 2-25. NOTE: Button layout and labels may look different on your boat.

3. Select Edit Page

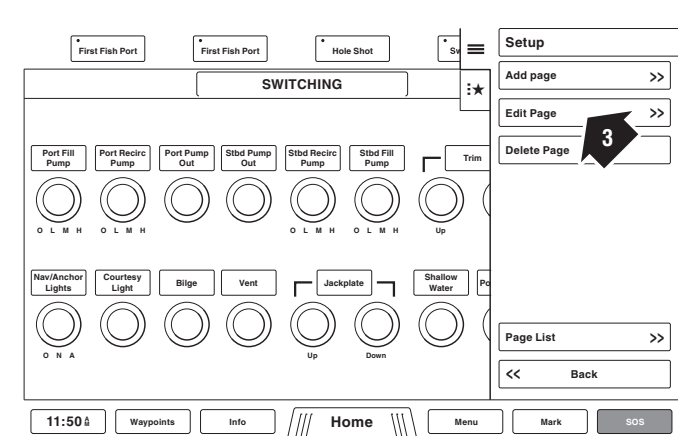


Figure 2-26. NOTE: Button layout and labels may look different on your boat.

4. Select Edit Switches

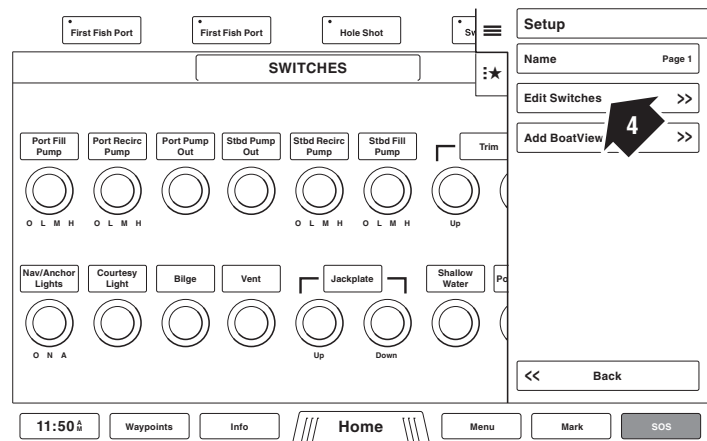


Figure 2-27. NOTE: Button layout and labels may look different on your boat.

- 4. Select the switch you want to rename
- 6. Select Configure Switch

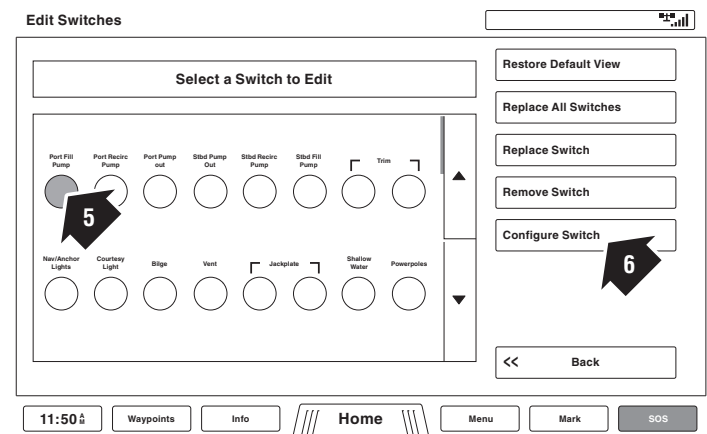


Figure 2-28. NOTE: Button layout and labels may look different on your boat.

7. Select Edit Name

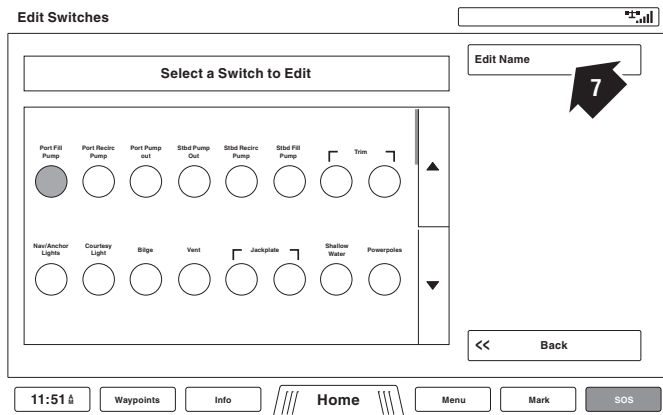


Figure 2-29. NOTE: Button layout and labels may look different on your boat.

8. Enter the desired switch name

9. Select Done when finished

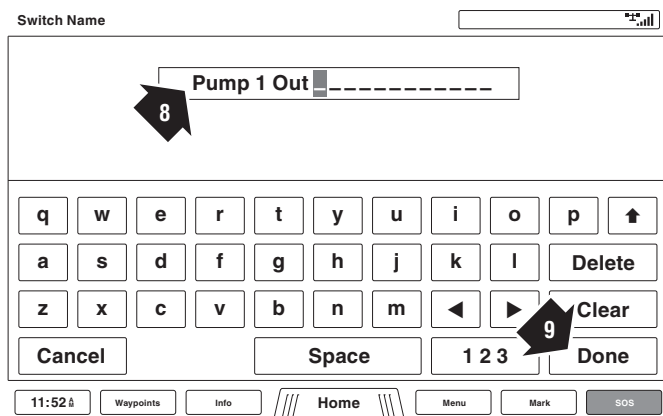
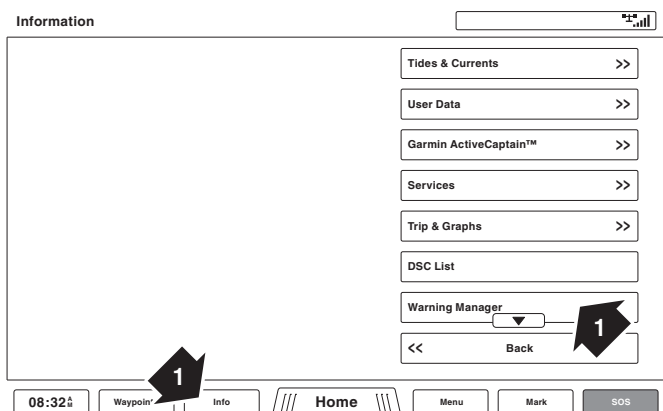


Figure 2-30.

3.13 Warning Manager

1. Select Info from the bottom menu and then select Warning Manager



2. On the next page you will see the list of faults.

DCM faults will be labeled SeaStar by Dometic 026-0003: DCM - 0

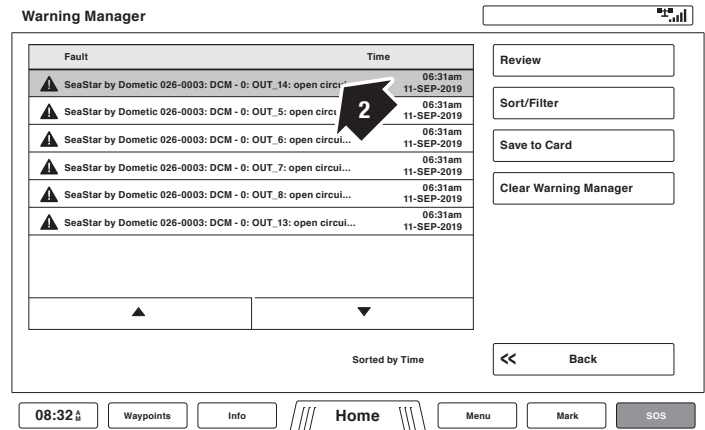


Figure 2-32. *

NOTE: Older models may show "SeaStar Solutions 026-0003: DCM - 0:"

3. Select a fault you would like to review for additional info

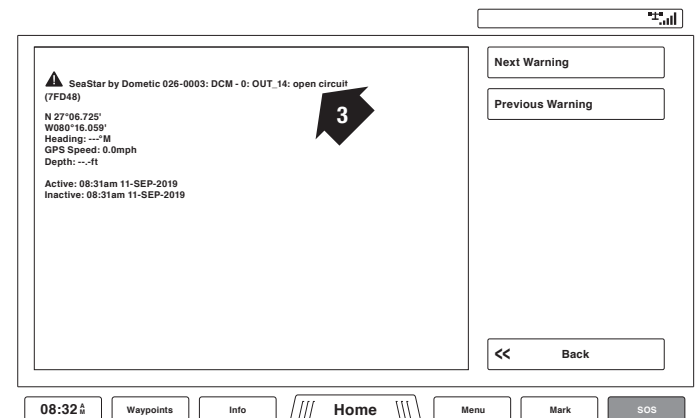
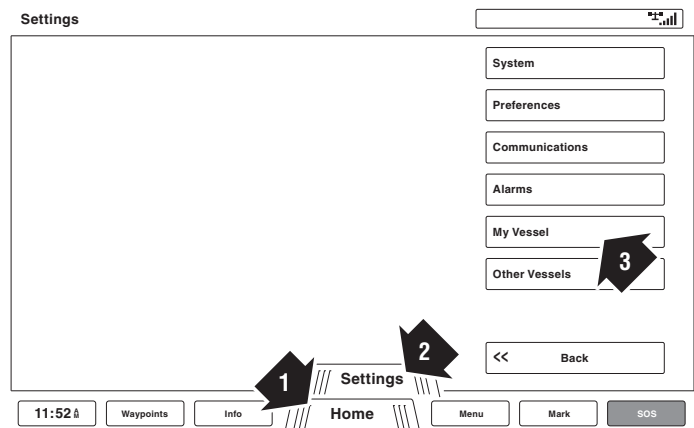


Figure 2-33.

NOTE: Older models may show "SeaStar Solutions 026-0003: DCM - 0:"

3.14 Update DCM Configuration File

- 1. From any screen select Home. Home button will become Settings button.
- 2. Select Settings
- 3. Select My Vessel



4. Select SeaStar

Figure 2-34.

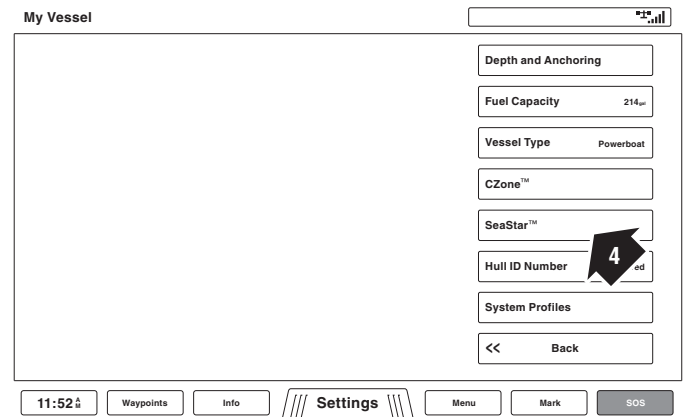


Figure 2-35.

5. Select SeaStar Config. File

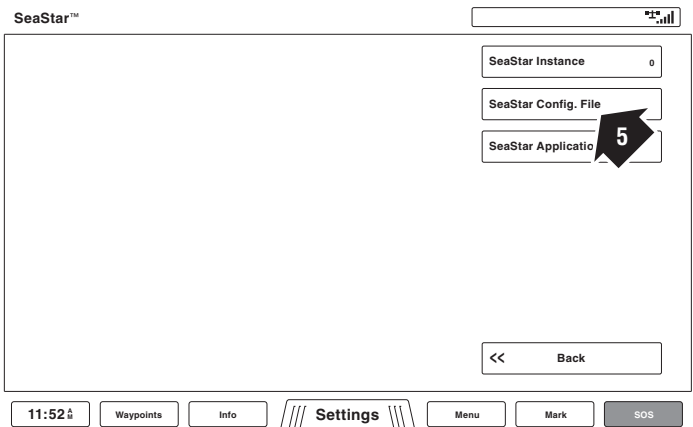


Figure 2-36.

- 6. Select Load From Card
- 7. Select the DCM you want to update
- 8. Select Select Device

- a. In a multi DCM system, locate the DCM you want to update and note its serial number on its label to identify it within the list
- b. On the Serial # column you should see the DCM serial number

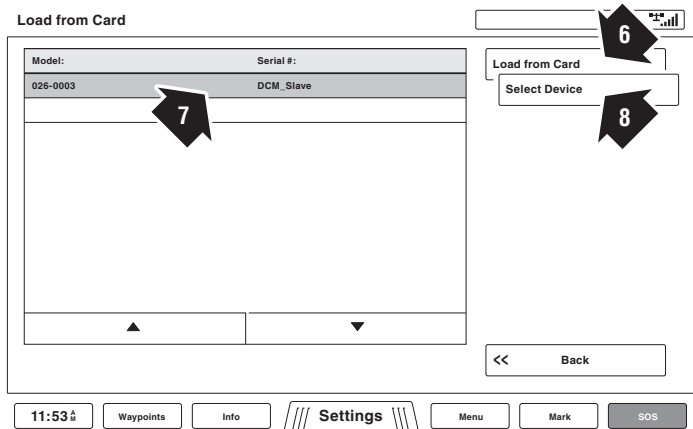


Figure 2-37.

9. Select the configuration file you want to update, then select Load From Card

NOTICE: The config part number and revision are listed on DCM Label (item 13, Section 3.3).

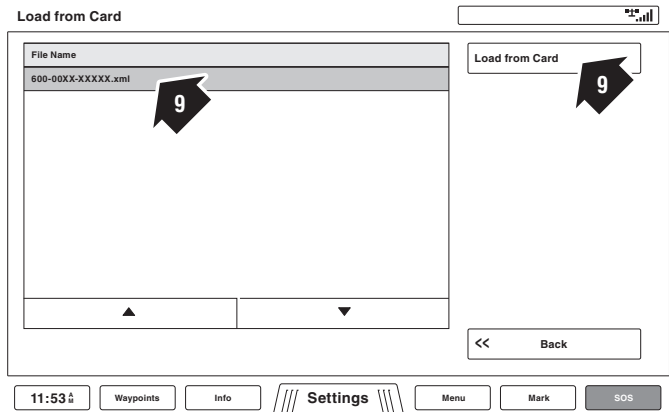


Figure 2-38

10. Select Yes

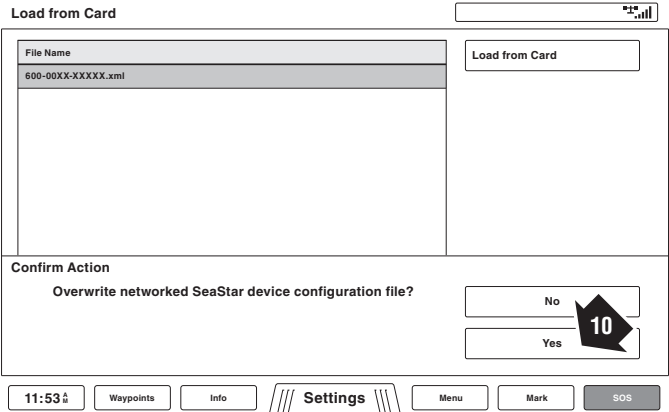


Figure 2-39

11. Wait for the Transfer

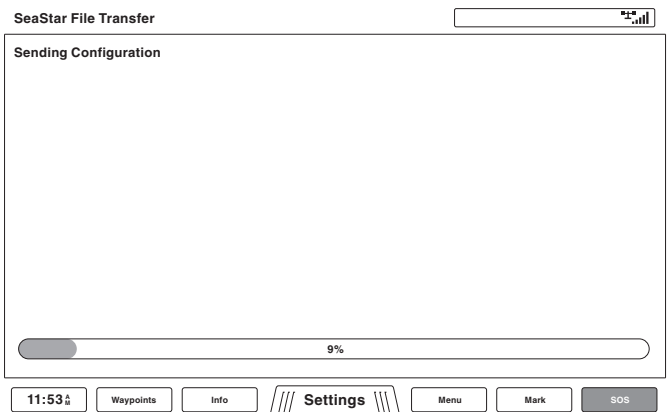


Figure 2-40

12. Leave settings

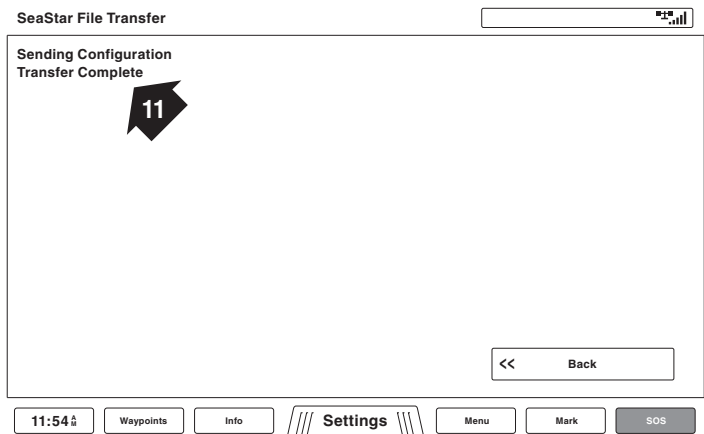


Figure 2-41

4 Troubleshooting Guide

4.1 DCM Troubleshooting

LED Flash Codes		
Solid GREEN = Channel On	2 x RED = No NMEA Network	No BLUE = Channel Off
1 x GREEN = Battery Too Low	3 x RED = Missing Peer Comm.	Solid BLUE = Channel On
2 x GREEN = Battery Too High	4 x RED = Configuration Fault	Slow BLUE = Open Circuit
No GREEN = Power Off/Sleep	Solid RED = Device Fault	Fast BLUE = Overload Protection

DCM		
Symptoms	Potential Causes	Checking Steps and Solutions
Power LED off	a) House battery switch off b) Module off c) Module failure	a) Check house battery switch to be ON position. Measure voltage across module power + and - to be above 9 VDC. Ensure all battery positive and negative wires secured. b) Reset house battery switch to off and on to wake up unit. c) Call OEM or SeaStar service for assistance.
Power LED green flash 1x pulse	a) Dead battery b) Charging source disconnected	a) Measure voltage across module power + and - to be above 9 VDC. Ensure all battery positive and negative wires are secured. b) Check voltage when charging engine is running. Ensure VSS or VSR is active.
Power LED green flash 2x pulses	a) Overvoltage	a) Measure voltage across module power + and - to be between 9 and 16 VDC. Trace battery positive and negative wire to a single battery.
Status LED red flash 2x pulses (missing NMEA network)	a) MFD power off b) NMEA network missing terminating resistors c) Faulty NMEA network	a) Ensure MFD can be turned on. Check power supply and fuse to MFD. b) Verify NMEA backbone has 2 terminating resistors. c) Refer to section 3.2 "NMEA 2000 Network Troubleshooting".
Status LED red flash 3x pulses (missing MFD)	a) Missing compatible MFD b) Improper DCM setup	a) Check home page of MFD to ensure Switching Icon exist. Update MFD software to the latest from MFD manufacturer. Check Home/Setting/Communication/Device List for SeaStar DCM.
Device load does not turn on when pressed at MFD	a) Load's associated fuse is blown b) Load wiring or load itself has a problem	Remove cover on module. Use output channel label to locate fuse for the load: a) Check the fuse. b) Move the fuse to the manual bypass position to check if the load will turn on.
A device load does not turn on even though associated load status indicator shows blue(ON)	a) Load's associated fuse is blown b) Load wiring or load itself has a problem	Remove cover on module. Use output channel label to locate fuse for the load: a) Check the fuse. b) Move the fuse to the manual bypass position to check if the load will turn on.
A device load turning outputs ON without being commanded	a) Load fuse at the bypass position	Remove cover on module. Use output channel label to locate fuse for the load: a) Move the fuse back to the normal position.
Signal input erratic for Meter or Switch Input	a) Missing ground signal b) Incorrect/multiple ground signals	a) Verify DCM has a ground signal at main ground lug. b) Verify DCM shares the same source ground as the signal being measured.
A switch connected to DCM that previously worked does not operate	a) Switch is faulty b) Switch wiring is faulty	a) Meter/test switch continuity. Replace switch with known working switch. b) Verify secure and proper connections to DCM. Meter/test switch continuity.

Garmin Screen MFD (Multi-Function Display)		
Symptoms	Potential Causes	Checking Steps and Solutions
When accessing a "switching" page on Garmin MFD there appears to be missing switches or voids where switches should be	a) Garmin "switching" page must be reset	a) From the problematic Garmin screen "switching" page press: Menu > Edit switches > Replace all switches, then select which switch group you desire for the particular page.
When pressing a switch on Garmin MFD the load stays on but a momentary operation is desired	a) The switch defined by the OEM as toggle ON/OFF, not momentary	a) Provide feedback to dealer and OEM.
Gauges for fuel/ water or waste tank data erratic	a) Sensor wiring	a) After verifying gauge data is supposed to come from DCM device, check wiring at tank sensor and DCM.
When trying to load a new configuration using Garmin card reader with SD card the system shuts down	a) Garmin MFD is powered from the DCM and is powering off when receiving prompt to load a new configuration	a) Place DCM output fuse for MFD into "Bypass Mode" to give continuous power to MFD during update. It is recommended that a correction to the DCM configuration is made using SeaStar DCM configuration tool so the particular output does not power off during future configuration uploads. Call OEM or SeaStar Service for assistance as needed.
On Garmin MFD Switching page, turning on a switch, two circuit indicators turn on when only one should	a) DCM configuration needs to be updated to correct the issue	a) Correct DCM configuration using SeaStar DCM configuration tool. Call OEM or SeaStar Service for assistance as needed.
Garmin screen shows message "Out of Range" (Example: Out of Range: Freshwater)	a) The sender/full system may not be energized b) DCM module is not connected to the NMEA 2000 network c) The sender is not properly connected to DCM module	a) Check the sender's breaker is in the "ON" Position. b) Find associated DCM module and check device for loose NMEA 2000 connection. c) Check for sender data at DCM module using a multi-meter.
Garmin screen shows "Unavailable" message instead of switches when on "switching" page	a) Garmin MFD not connected to NMEA 2000 network b) SeaStar Instance not set on MFD c) Switching page needs to be reset	a) From the Garmin screen homepage press: Settings/ Communication/ NMEA 2000 set-up/ Device List... Does the device list show other devices on the NMEA network? If not, replace Garmin unit's NMEA drop cable. If problem persists refer to section 3.2 "NMEA 2000 Network Troubleshooting". b) From the Garmin screen homepage press: Settings > My Vessel > Switching > SeaStar > SeaStar Instance to be '0' c) From the switching page press: Menu > Edit Switches > Restore Default View
In multi MFD installation, switching buttons functional only on one MFD	MFD instancing does not match DCM config file	Call SeaStar Service for assistance.
Fuel/Water/Waste tank data not present on MFD	a) Tank sender not connected to DCM module b) Tank sender type NMEA instance incorrect on MFD	a) Follow tank sender wiring to verify secure connection to designated DCM module position. Measure voltage at the sender connection. b) From the Garmin Gauges page press: Menu > Edit Gauges Page > Replace Data.

Power Management/ Battery Switches & Key Fob		
Symptoms	Potential Causes	Checking Steps and Solutions
Load breaker tripped or blown fuse	<ul style="list-style-type: none"> a) Improper voltage caused load current to rise causing breaker to trip or fuse to blow b) Harness has short circuit c) Load/device has short circuit d) If tripped repeatedly weak/faulty breaker 	<ul style="list-style-type: none"> a) Measure system voltage and restore by charging battery if required. b) Disconnect load and turn on breaker or replace fuse to see if the breaker trips or fuse blows, if it does, there is a short circuit within the breaker's associated wiring harness. c) Disconnect the load from DCM, the breaker or the fuse. Measure resistance on the load to check for short circuit. Test/ replace with a working load device. d) Check breaker's load value with a DC current meter (Amp Clamp), If the load is pulling less than the breaker's capable current rating, replace the breaker.
Wireless key fob doesn't work	<ul style="list-style-type: none"> a) Battery inside key fob requires replacement b) Key fob needs to be paired with DCM c) Faulty Key fob or receiver 	<ul style="list-style-type: none"> a) Replace battery. b) See section See 2.7 "Key Fob Pairing Procedure." c) Test/replace with a working receiver.
Audible noise from speaker system when load device is active	<ul style="list-style-type: none"> a) The load device is grounded in between the Stereo head unit and stereo amplifier b) The load device is grounded in between the battery and the stereo amplifier c) A DCM load is creating PWM (Pulse With Modulation) noise that is bleeding into speaker wires 	<ul style="list-style-type: none"> a) Install a new (separate) 14 AWG ground wire directly from stereo head unit ground to stereo amplifier ground. b) Ensure stereo amplifier ground is terminated as close to the battery as possible with no load grounds in between. Or, apply solution (a). c) Re-route speaker wires away from DCM load wires.

4.2 NMEA 2000 Network Troubleshooting

- Usually troubleshooting requires nothing more than a few basic tools and knowledge of what a proper NMEA 2000 backbone construction should consist of. Given the tools and knowledge, troubleshooting could be considered easy, as all the parts are "Plug and play." Usually technicians use the process of elimination to find and eliminate problems. This method is recommended at times however, may not always work swiftly if there is more than one piece of faulty equipment on the network.
- It is recommended to take a NMEA cable and cut the female end off of the cable, strip back the conductors from the remaining male cable and terminate them onto a terminal strip as shown in figure 3-1.
This simple tool will plug into any open position on the network allowing for easy ability to meter different parts of the network.
- If there is a problem with a NMEA 2000 network, it is recommended to start by removing network devices one at a time. If the network works properly immediately after removing a device, it is safe to assume there may be a problem with the device or the associated network drop cable. If this method does not resolve the network problems the next step would be to test the network by metering.

When Metering a NMEA 2000 network

The resistance between Net-H (White) and Net-L (Blue) should be approx. 60 Ohms with the network power turned off.

If this parameter is not met:

- Verify proper construction of NMEA network while checking for loose connections
- Replace terminating resistors
- If value is still incorrect: Remove all devices from network, check value again, determine faulty network "T"s, cables or network power isolators by using process of elimination.
Replace necessary items effecting the network backbone.

With network power on the network voltage (Red & Black) should not be below 11V or Above 15V If this parameter is not met:

- Charge system batteries
- Check charging system for proper voltage output
- Verify proper construction of NMEA network while checking for loose connections
- Replace power insertion "T"

- If value is still incorrect: Remove all devices from network, check value again, determine faulty network "T"s, cables or network power isolators by using process of elimination.

Replace necessary items effecting the network backbone.

The shield and DC (-) conductor should have continuity

Although it is possible NMEA networks can be effected by interference it is unlikely.

This rule exists for purposes to shield the network from interference.

If this parameter is not met:

- Check power insertion point for proper connection, where the shield is connected to DC (-).

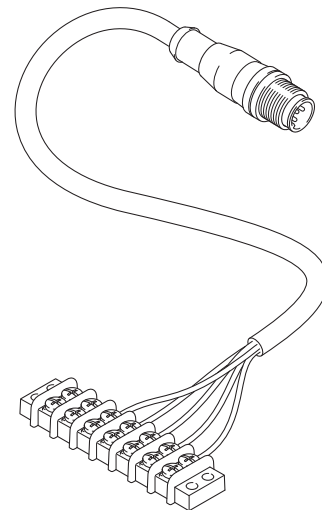


Figure 4.1

5 New Boat Checklist

New Boat Customer Orientation

Notes

Action	Dealer Initial
Power ON/OFF battery switch location and function (off for extended storage)	
Turn power ON/OFF using key fob	
Explain battery switch ON/OFF cycle, if key fob not available	
Explain all key fob functions	
Navigate to switching page on Garmin MFD	
Go through each switch and describe how it works	
Show settings page on Garmin MFD	
Show favorites combo page	
Download and set-up Garmin ActiveCaptain™ and show operation	
Show how to change modes and switching page name	
Show how to change switch type	
Show how to edit overlays with top bar, circuit control	
Show location of MDP panel and DCM	
Show how to bypass channels using DCM fuses	
Show DCM lid with flash code explanations	

[illegible]

6 Warranty

6.1 Statement of Limited Warranty

The DCM system is factory installed by the original boat manufacturer. Please go through the boat dealer to contact the boat builder.

We warrant to the original retail purchaser that Marine Canada Acquisition Inc. DBA DOMETIC VANCOUVER (herein forward referred to as Dometic) products have been manufactured free from defects in materials and workmanship. This warranty is effective for two years from date of purchase, excepting that where Dometic products are used commercially or in any rental or income producing activity, then this warranty is limited to one year from the date of purchase.

We will provide replacement product without charge, for any Dometic product meeting this warranty, which is returned (freight prepaid) within the warranty period to the dealer from whom such product were purchased, or to us at the appropriate address. In such a case Dometic products found to be defective and covered by this warranty, will be replaced at Dometic's option, and returned to the customer.

The above quoted statement is an extract from the complete Dometic products warranty statement. A complete warranty policy is available in our Dometic products catalogue.

For more information please visit our website:
www.dometic.com

6.2 Return Good Procedure

Prior to returning the product to Dometic please call:
772-210-2403

6.3 Technical Support

Phone: 772-210-2403

email: seastar@dometic.com

Hours: Monday to Friday 05:00 – 15:30 PST

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A complete list of Dometic companies, which comprise the Dometic Group, can be found in the public filings of:
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