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Section 1 Introduction

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Section 1

WELCOME ABOARD!!

Welcome to the Cruisers Yachts family of happy yacht owners.

We wish to thank you for making our **390 Sport Coupe** your recreational choice for boating enjoyment. Extensive design and engineering research went into the development of all **Cruisers Yachts**. We feel there is a beautiful balance between structural integrity and creature comforts.

Your yacht was manufactured by trained craftsmen in the tradition of meeting or exceeding existing safety and quality standards established by the United States Coast Guard and the Boating Industry of America.

Cruisers Yachts has been manufacturing boats for over 50 years. We take pride in our craftsmanship and hull performance. We are confident you will enjoy the ride. For you, the **Cruisers Yachts** name is your assurance that your yacht will hold its value while providing many years of boating pleasure. We have made a commitment to this industry and are glad to have you as a partner.

Congratulations on your choice – let us know if we can be of further service.

SKIPPER'S KIT

The Skipper's Kit contains the **390 Sport Coupe** owner's manual. Also included is information about on-board systems and components furnished by suppliers other than Cruisers Yachts.

Owner's Manual

The owner's manual contains specific information concerning the operation of the **390 Sport Coupe**. The descriptions contained within this manual will introduce you to features of the **390 Sport Coupe**, and provide you with a general knowledge of how the equipment works. This manual is divided into several sections, and each section is introduced by a table of contents to help you quickly find needed information.

The **Getting Started** owner's manual contains additional general information concerning operation and the necessary information for boating safely and care of your yacht. The **Getting Started** manual is also divided in the same manner as the owner's manual to help you quickly find needed information. Become familiar with the material in each section of both manuals. Always keep both manuals together and with your yacht for future use, and for anyone who may operate your yacht. The following are the topics found in the **Getting Started** manual:

INTRODUCTION
BOATING SAFETY
GENERAL CONTROLS AND INDICATORS
BASIC OPERATION OF SYSTEMS
GENERAL ACCESSORY ITEMS
GETTING UNDERWAY
GENERAL MAINTENANCE
STORAGE AND EXTENDED LAY-UP
TROUBLESHOOTING



Introduction ____

Safety Symbols

Safety

In emergency situations, it may be necessary to resort to measures which are not normally practiced. Always assess the dangers of being in harm's way before the protection of equipment.

Keep a sound mind during an emergency and always think safety.



The Safety Alert Symbol means ATTENTION! Be alert to the possibility of personal injury or death.

The following precautions are used throughout this manual.

A DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

A WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

A CAUTION

Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

CAUTION

Indicates the presence of a hazard which might result in damage to property or equipment.

The "signal words" of **DANGER**, **WARNING** and **CAUTION** have specific meaning to alert you to relative level of hazard.

Section 1 contains a description of the Skipper's Kit and information about the warranty.

Section 2 contains your yacht specifications such as dimensions and capacities. There are also layout diagrams to introduce you to floorplans as well as the locations of various components.

Section 3 contains descriptions of all the controls and indicators on the dash of the helm.

Section 4 contains principles of operation for the major systems on-board the 390 Sport Coupe.

Sersowners Forum.



Section 1

Owner's Manuals for On-board Systems and **Components**

Spend some time becoming familiar with all the information contained in the Skipper's Kit. Besides containing separate warranty information, the kit also contains literature which provides important safety information, operating and maintenance instructions for those systems and components not manufactured by Cruisers Yachts. Depending on the options you chose, the kit may contain some or all of the following literature: • Marine Toilet
• Fire Suppression System
• Carbon Monoxide (CO) Detector
• Refrigerator/loe Maker
Propeller Shaft
Vasher/Dryer
w Thruster
ttral Vacuum
'ight Operation
sion, P''

- Television, DVD Player, FM Radio
- Electronic Dash Components
- Trash Compactor



Introduction

WARRANTY INFORMATION

Warranties for on-board systems and components furnished by suppliers other than Cruisers Yachts are located inside the Skipper's Kit. Your Cruisers Yachts Dealer will go through these with you. It is your responsibility to fill out any warranty registration that may be required.

The warranty provided by Cruisers Yachts is printed on the last page of this manual. You and the Cruisers Yachts Dealer have certain responsibilities to fulfill to keep the warranty in force.

Dealership Responsibilities

- 1. The dealer will discuss the terms of all warranties and stress the importance of registering warranties with the appropriate manufacturers.
- 2. The dealer will provide instruction for obtaining warranty service.
- 3. The dealer will go over the predelivery service record with you and then sign it to certify that all work has been accomplished.
- 4. The dealer will provide you with thorough instructions in the ded fro operation of your yacht and all its systems.

Your Responsibilities

- 1. Sit down with the dealer and go over all warranties. Fill in the Cruisers Yachts Limited Warranty Registration card which is located inside the Skipper's Kit. Keep a record of the hull number for future reference.
- 2. Inspect the boat at the time of delivery to ensure that all systems are operating properly.
- 3. Sit down with the dealer and go over the predelivery service record. Sign this record to indicate that it has been explained to you.
- 4. Operate all equipment per the manufacturer's instructions.

- 5. Cruisers Yachts recommends that you refer to your engine warranty for initial inspection and service requirements.
- 6. Perform or provide for the appropriate periodic maintenance outlined in the owner's manuals and service guides.

Warranty Service

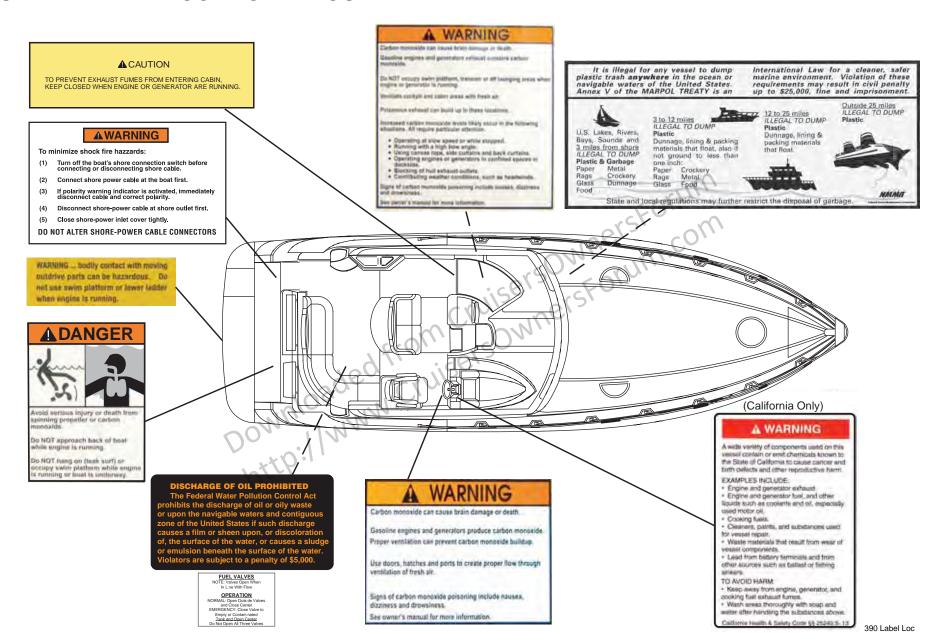
You are entitled to all the benefits and services set down in the warranties. If a problem arises with your **390 Sport Coupe** as a result of workmanship or materials, contact your Cruisers Yachts Dealer as soon as possible. Please have your hull identification number and necessary model numbers on hand for the items that may need service or repair. Your hull identification number is located below the CruisersOwnersForum.com rub rail on the starboard side of the transom.



1-5 390 Sport Coupe



SAFETY LABEL LOCATION LAYOUT







Section 2 **Model Specific Information**

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SPECIFICATIONS

| Measurements | (US / Metric) | |
|---|----------------------------|-------------|
| L.O.A. Hull | 38'2" / 11.6 m | |
| L.O.A. Hull with Extended Swim Platform | 40'2" / 12.2 m | |
| Beam | 13'0" / 4.0 m | |
| Approximate Weight, Gas Engines* | 20,500 lbs / 9,299 kg | |
| Approximate Weight, Diesel Engines* | 22,000 lbs / 9,979 kg | |
| Fuel Capacity | 300 gal / 1,136 L | |
| Water System Capacity | 75 gal / 284 L | |
| Holding Tank Capacity | 55 gal / 208 L | |
| Cabin Headroom | 6'6" / 2.0 m | 17/1 |
| Height - Keel to Top of Hardtop | 12'5" / 3.8 m | color. |
| Bridge Clearance to Top of Hardtop | 10'0" / 3.1 m | rst |
| Draft: Hull / Underwater Gear | | "V6,2 CO/, |
| Draft VD | 39" / 0.99 m | ON, W. |
| Draft IPS | 45" / 1.14 m | arso arulli |
| Deadrise | 18 degrees | ise, cto. |
| Sleeping Accommodations | 6 persons | ruis sels. |
| *187 : 17 | 200 | " ON! |
| "Weights are estimates and can vary from op | otions and equipment added | 1.50 |
| | isd'' iss | 31 |
| Engines | age Cruis | |
| Gae: | 100 "M:C. | |
| Gas. | IN IN | |
| Mercury 8.1, 370 HP (276 kW) | 11/10 | |
| Mercury 8.1, 420 HP (313 kW) | 0.11 | |
| Volvo Penta 8.1, 370 HP (276 kW) | 7 | |
| Volvo Penta 8.1, 420 HP (313 kW) | | |
| Holding Tank Capacity Cabin Headroom | | |
| Volvo D6, 370 HP (276 kW) | | |
| Volvo DO, 370 FF (270 KVV) | | |

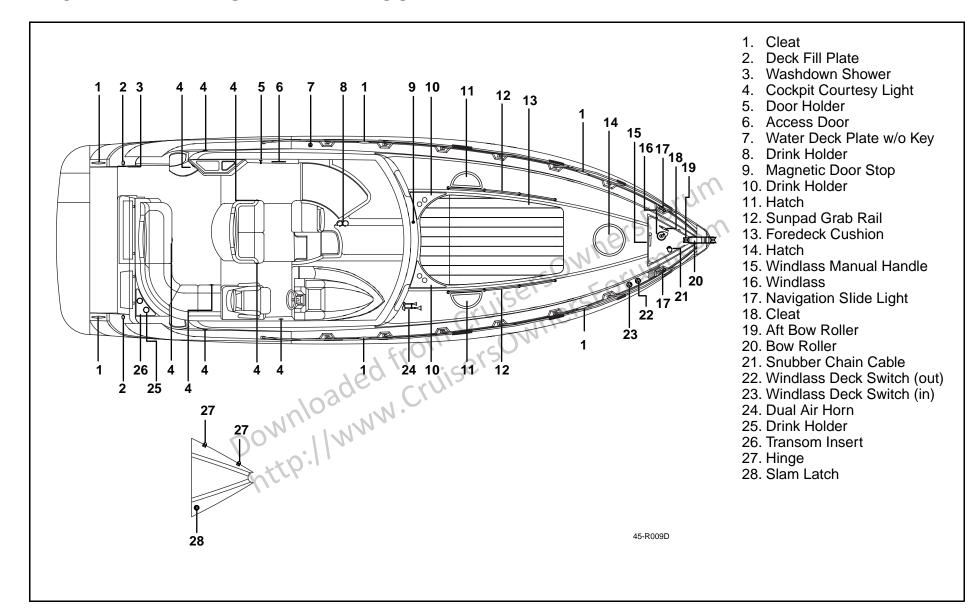
Volvo D6, 370 HP (276 kW) Volvo IPS 400 D6, 310 HP (231 kW) Volvo IPS 500 D6, 370 HP (276 kW) Yanmar 6LYA-STP, 370 HP (276 kW)







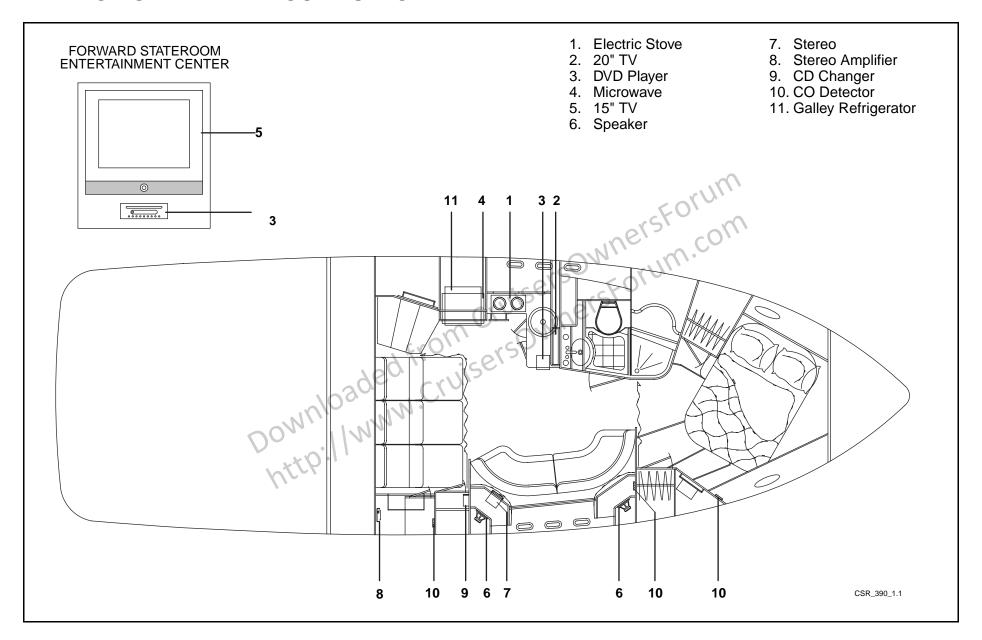
DECK HARDWARE GENERAL LAYOUT







INTERIOR GENERAL LAYOUT - SALON

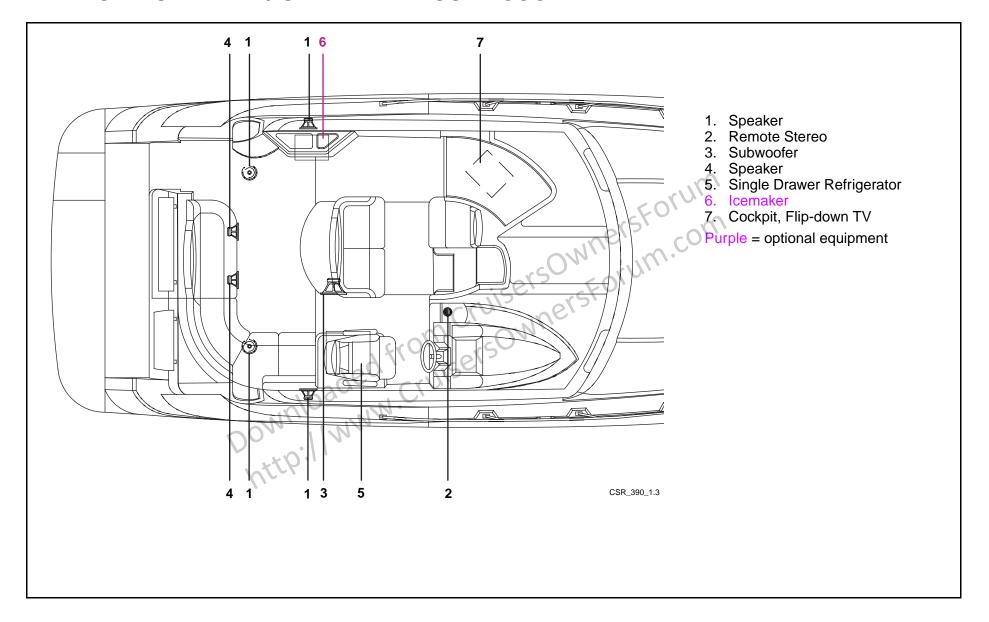




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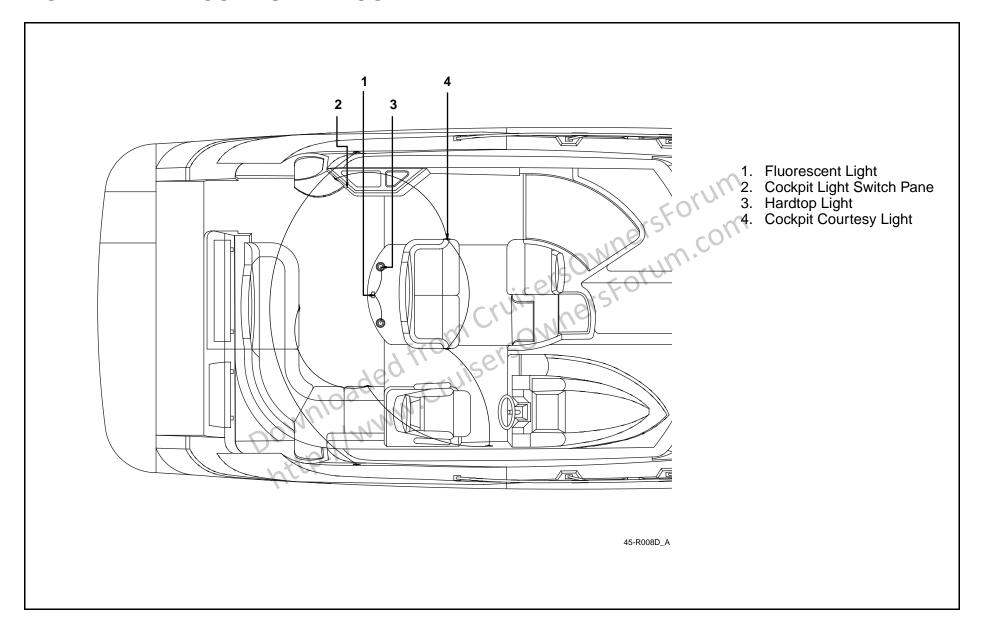
INTERIOR LIGHT PLAN / GENERAL LAYOUT - COCKPIT







LIGHT PLAN LAYOUT – STATEROOM





2-6

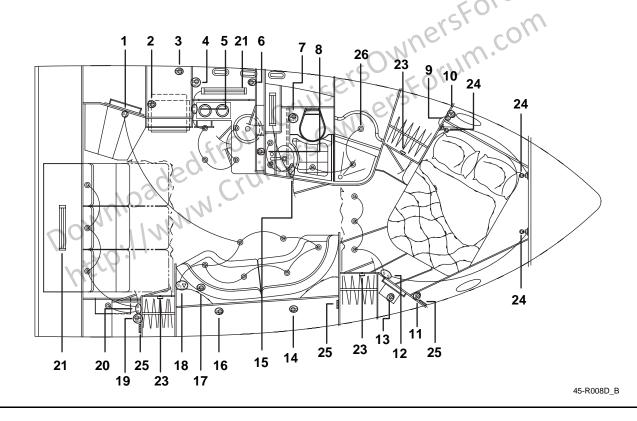


LIGHT PLAN LAYOUT - SALON

- 1. Light Switch
- 2. Dual Receptacle Box
- 3. Dual Receptacle Box
- 4. Dual Receptacle Box
- 5. Light Switch
- 6. Dual Receptacle Box
- 7. Dual Receptacle Box
- 8. Dual Receptacle Box
- 9. Light Switch

- 10. Dual Receptacle Box
- 11. Dual Receptacle Box
- 12. Light Switch
- 13. Dual Receptacle Box
- 14. Dual Receptacle Box
- 15. Light Switch
- 16. Dual Receptacle Box
- 17. Dual Receptacle Box
- 18. Light Switch

- 19. Dual Receptacle Box
- 20. Light Switch
- 21. Fluorescent Light
- 23. Closet Light
- 24. Reading Light
- 25. CO Detector
- 26. Overhead Light



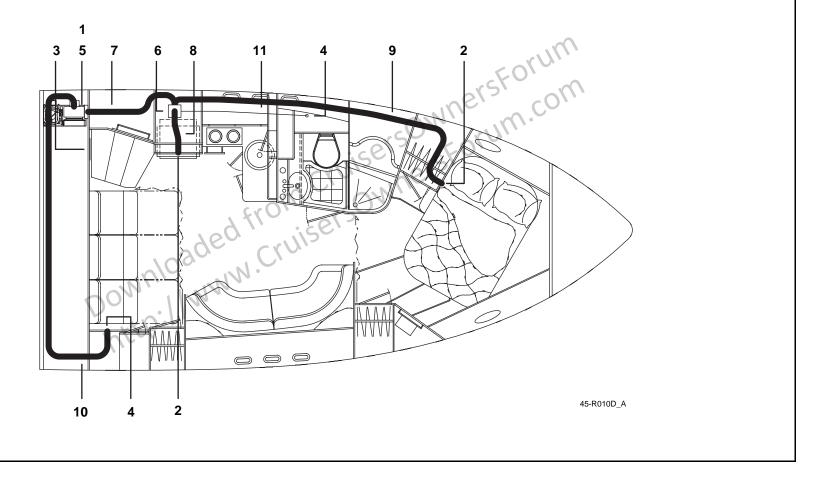


Section 2

A/C PLAN VIEW

- 1. Air Conditioner
- 2. A/C Grill, 4" x 8"
- 3. A/C Grill, 12" x 12"
- 4. Round Vent
- 5. A/C Unit Plenum
- 6. Refrigerator Plenum

- 7. A/C Unit Plenum to Refrigerator Plenum
- 8. Refrigerator Plenum to Gallley9. Refrigerator Plenum to FSR
- 10. A/C Unit Plenum to ASR
- 11. Refrigerator Plenum to Head

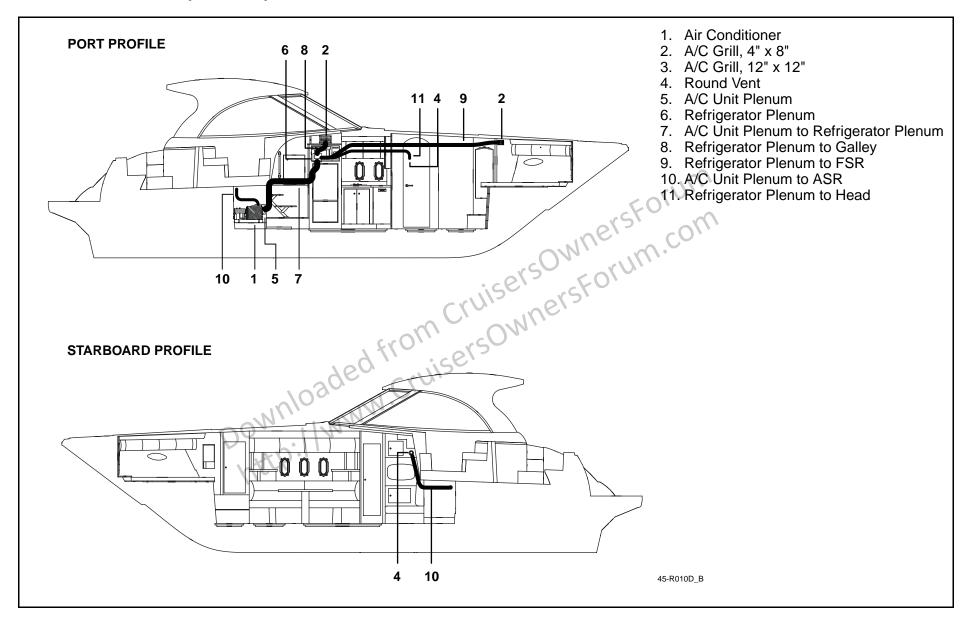




2-8



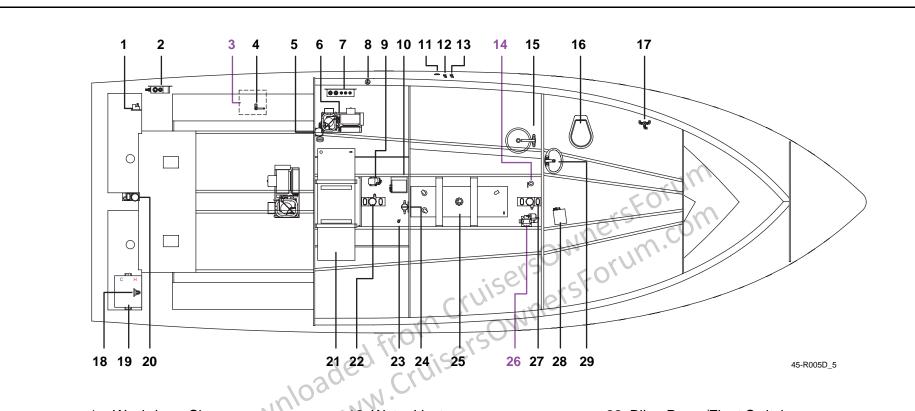
A/C PLAN VIEW (CON'T.)







PLUMBING HARDWARE



- Washdown Shower
 Aft Port Plenum Box
- Icemaker
- 4. Cold Faucet
- 5. Freshwater Pump
- 6. Air Conditioner
- 7. Forward Port Plenum Box
- 8. Water Deck Plate
- 9. A/C Pump
- 10. Shower Sump Pump
- 11. Waste Deck Plate

- 12. Water Vent
- 13. Waste Vent
- 14. Thru-Hull Seacock
- 15. Galley Faucet
- 16. Head
- 17. Shower Mixer
- 18. City Water Receptacle
- 19. Water Heater
- 20. Bilge Pump/Float Switch/High Water Alarm Switch
- 21. Water Tank

- 22. Bilge Pump/Float Switch
- 23. Intake Strainer/Seacock
- 24. Strainer
- 25. Waste Tank
- 26. Macerator
- 27. Bilge Pump/Float Switch
- 28. Shower Sump Pump
- 29. Head Faucet/Sink

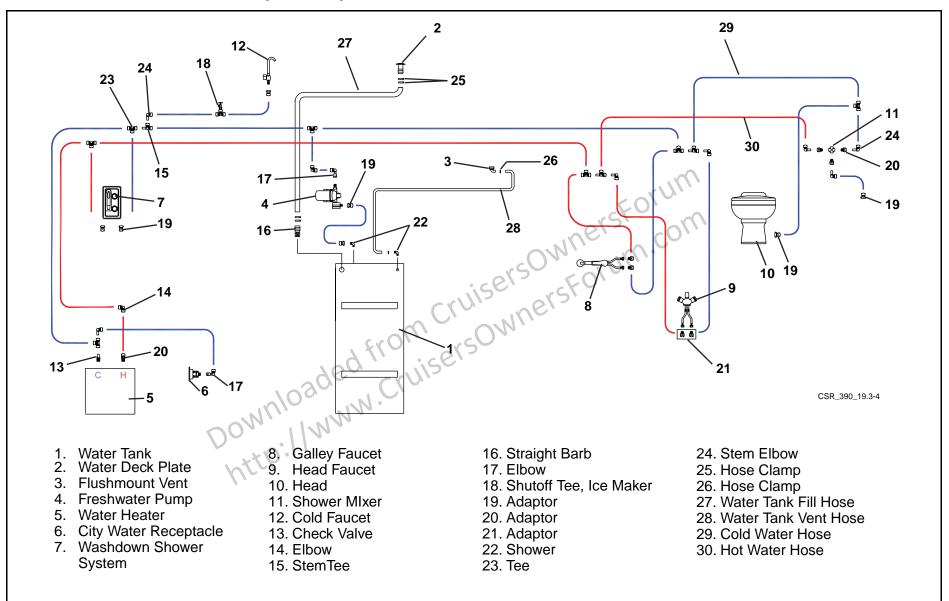
Purple = optional equipment



2-10 390 Sport Coupe



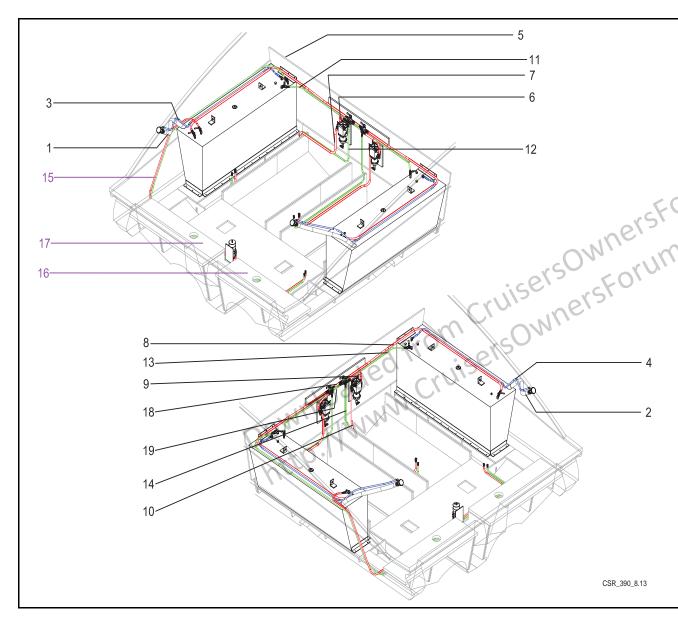
PLUMBING HARDWARE (CON'T.)







FUEL LAYOUT - YANMAR DIESEL



- 1. Port Fuel Tank Fill Hose
- 2. Starboard Fuel Tank Fill Hose
- 3. Port Fuel Tank Vent Hose
- 4. Starboard Fuel Tank Vent Hose
- 5. Port Tank Feed to Crossover
- 6. Crossover to Port Fuel Filter
- 7. Port Fuel Filter to Port Engine Feed
- 8. Starboard Tank Feed to Crossover
- 9. Crossover to Starboard Fuel Filter
- Starboard Fuel Filter to Starboard Engine Feed
- 11. Port Tank Return to Crossover
- 12. Crossover to Port Engine Return
- 13. Starboard Tank Return to Crossover
- 14. Crossover to Starboard Engine Return
- 15. Port Tank Feed to Genset Fuel Filter
- 16. Genset Fuel Filter to Genset Feed
- 17. Port Tank Return to Genset
- Port Crossover to Starboard Crossover Feed
- Port Crossover to Starboard Crossover Return

Purple = optional equipment

| FUEL LAYOUT DRAWING LEGEND | | |
|----------------------------|-------------|--|
| COLOR | HOSE TYPE | |
| | FUEL FEED | |
| | FUEL RETURN | |
| | FUEL VENT | |
| | FUEL FILL | |

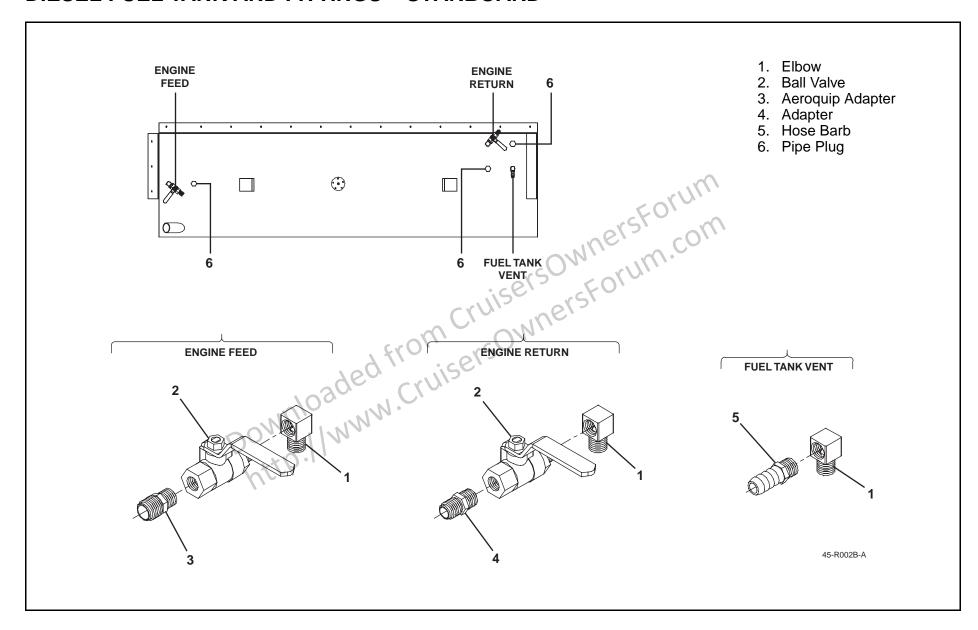
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390 Sport Coupe **2-12**



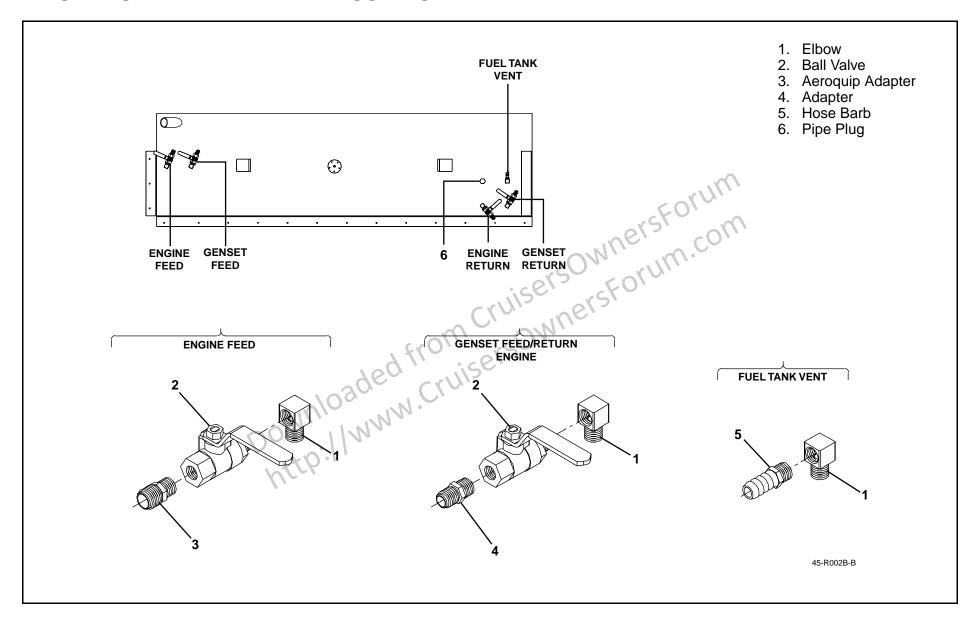
DIESEL FUEL TANK AND FITTINGS – STARBOARD







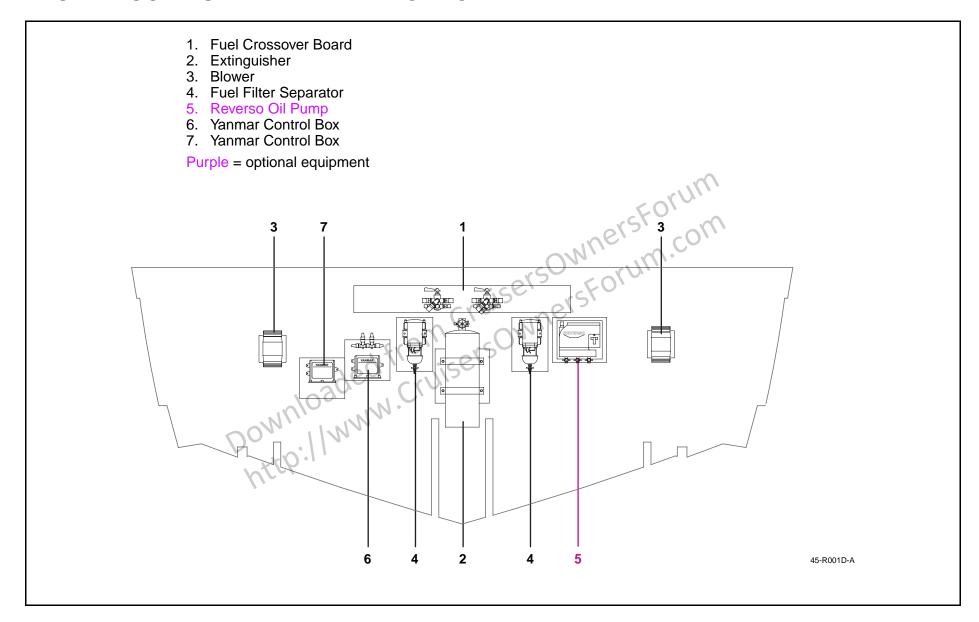
DIESEL FUEL TANK AND FITTINGS - PORT





2-14

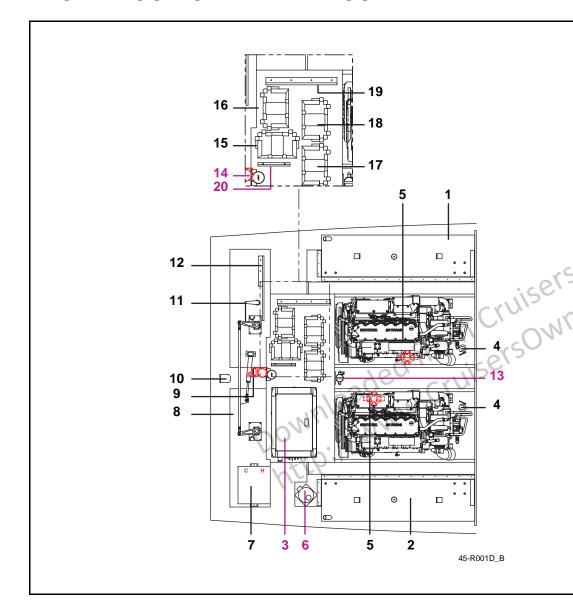
ENGINE ROOM BULKHEAD AND ELECTRICAL PANEL – YANMAR







ENGINE ROOM GENERAL LAYOUT – YANMAR



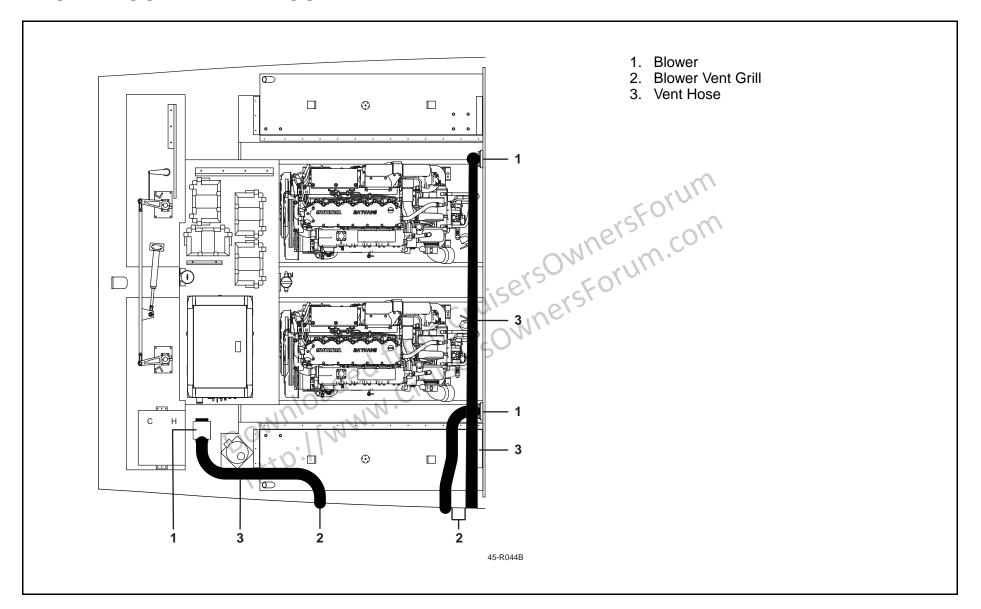
- 1. Port Fuel Tank
- 2. Starboard Fuel Tank
- 3. Generator
- 4. Strainer/Thru-Hull/Seacock
- 5. Raw Water Strainer
- 6. Muffler
- 7. Water Heater
- 8. Steering System
- 9. Float Switch/Bilge Pump/High Water Alarm
- 10. Trim Tab Pump
- 11. Rudder Indicator
- 12. Battery Charger Board Assembly
- 13. Strainer/Thru-Hull/Seacock
- 34. Fuel Filter
- 15. Battery Box/12V Deep Cycle Battery
- 16. Battery Box/12V Cranking Battery
- 17. Battery Box/12V Deep Cycle Battery
- 18. Battery Box/12V Cranking Battery
- 19. Battery Switch Board Assembly
- 20. Oil Exchange

Purple = optional equipment



2-16

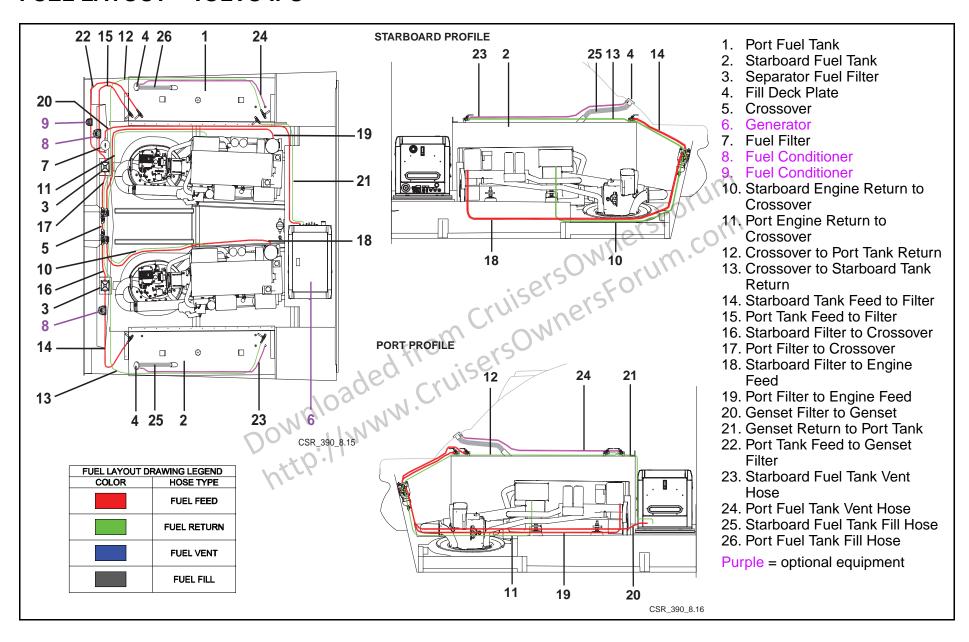
ENGINE ROOM VENT LAYOUT – YANMAR





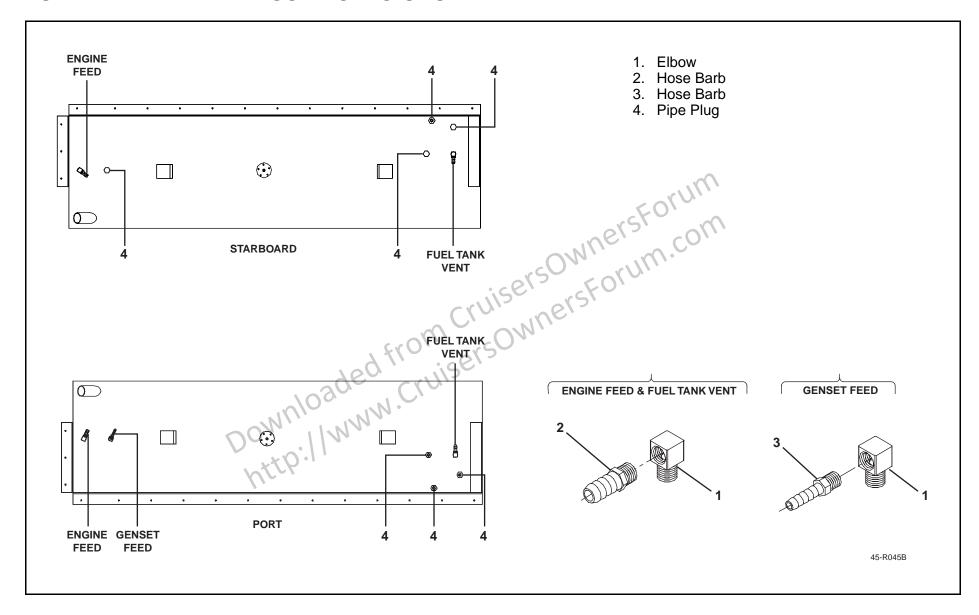


FUEL LAYOUT - VOLVO IPS





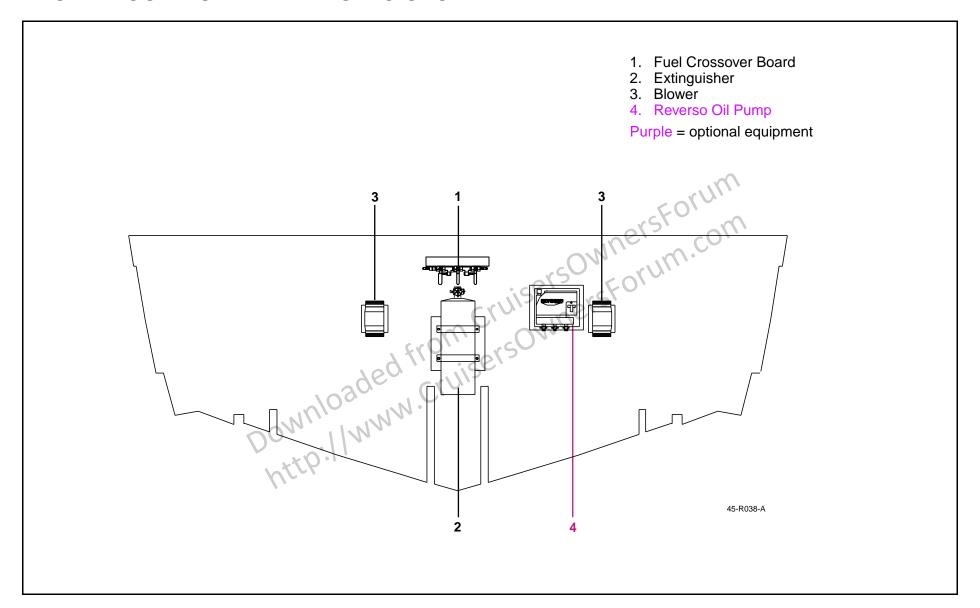
FUEL TANK AND FITTINGS – VOLVO GAS





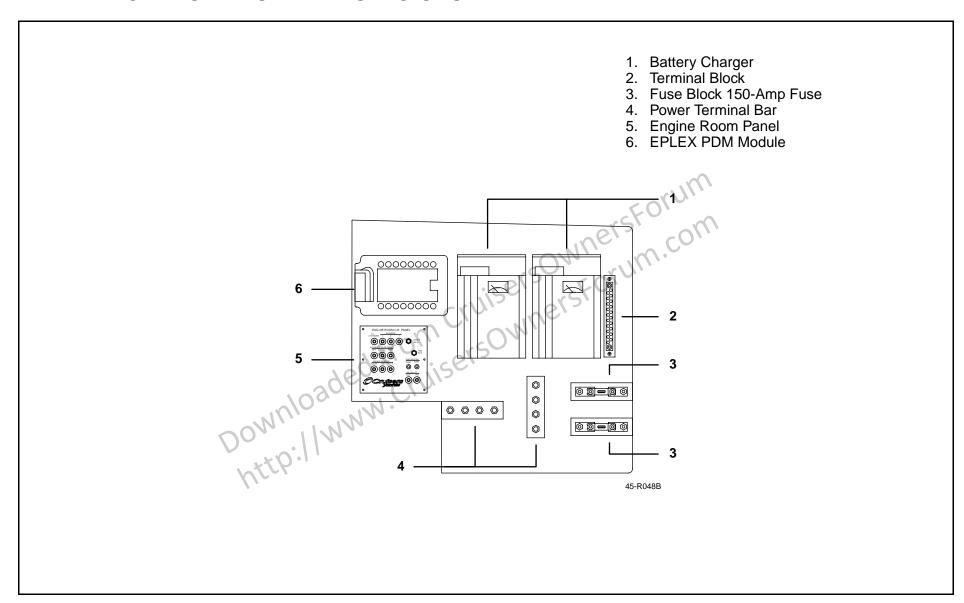


ENGINE ROOM BULKHEAD – VOLVO GAS





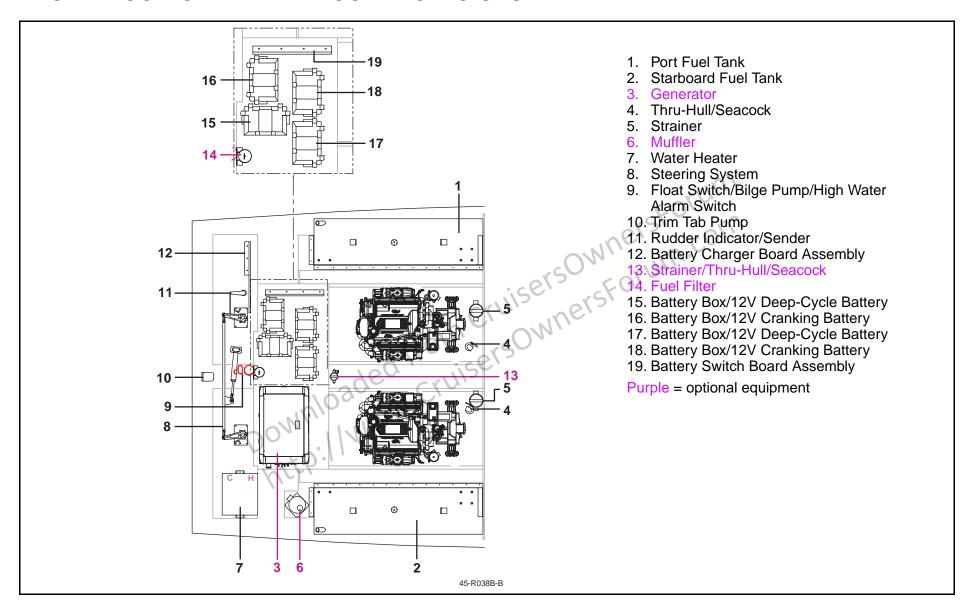
BATTERY CHARGER BOARD – VOLVO GAS







ENGINE ROOM GENERAL LAYOUT - VOLVO GAS

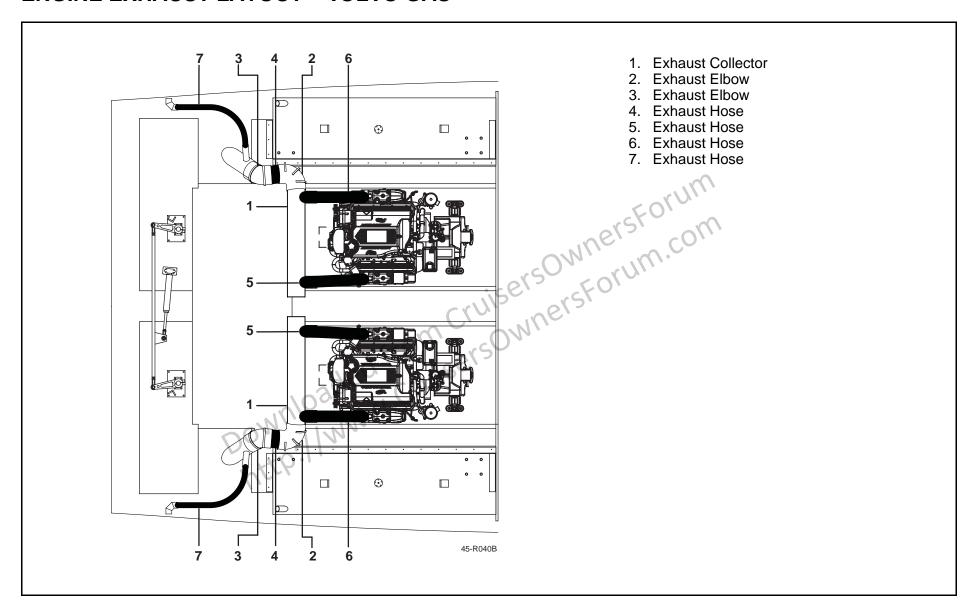




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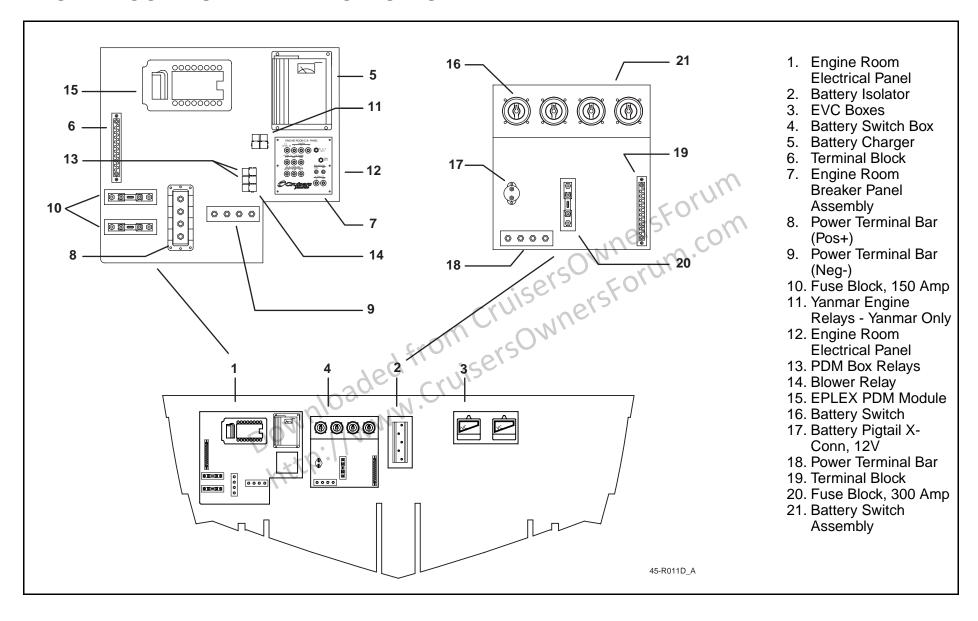
ENGINE EXHAUST LAYOUT – VOLVO GAS





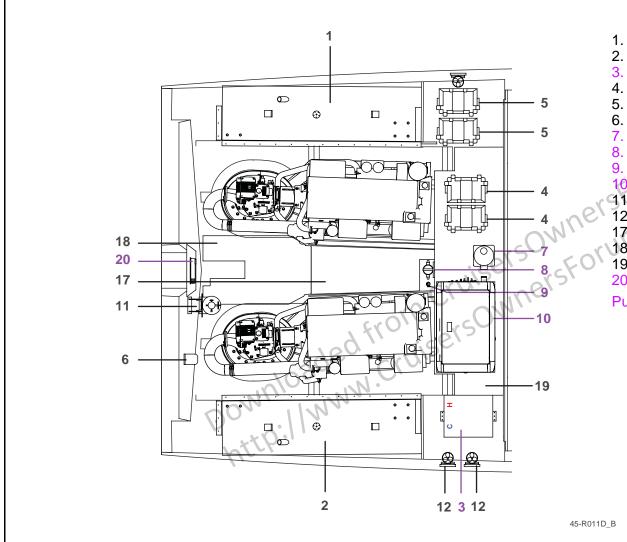


ENGINE ROOM BULKHEAD - VOLVO IPS





ENGINE ROOM GENERAL LAYOUT - VOLVO IPS



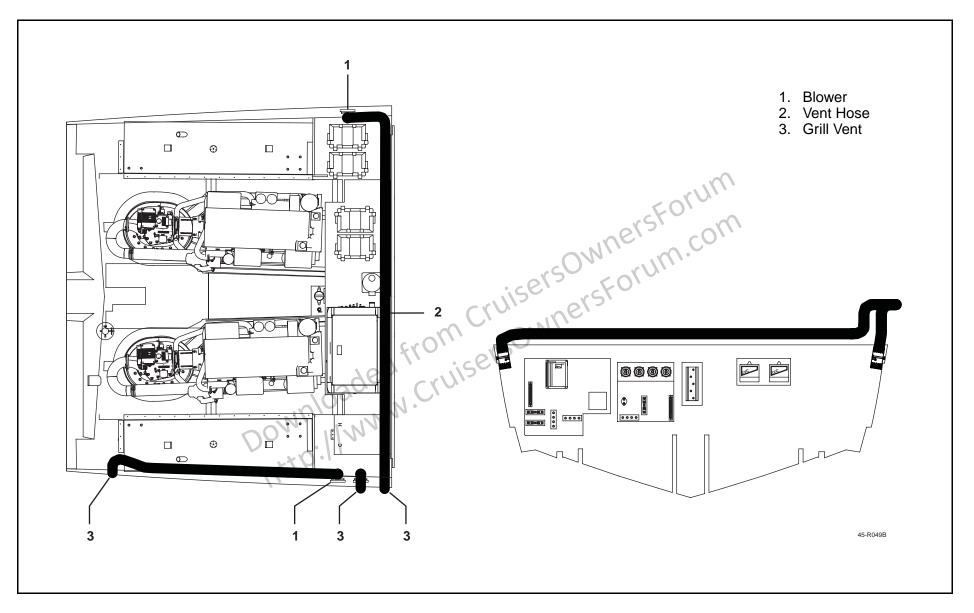
- 1. Port Fuel Tank
- 2. Starboard Fuel Tank
- 3. Water Heater
- 4. Battery Box/12V Cranking Battery
- 5. Battery Box/12V Deep-Cycle Battery
- 6. Trim Tab Pump
- 7. Muffler
- 8. Strainer
- 9. Seacock/Strainer
- 10. Generator
- 11. Extinguisher
- 12. Blower
- 17. Floor, Center, IPS
- 18. Floor, Aft, IPS
- 19. Floor, Gen, IPS
- 20. Reverso Oil Pump

Purple = optional equipment





ENGINE ROOM BLOWER RUNS - VOLVO IPS

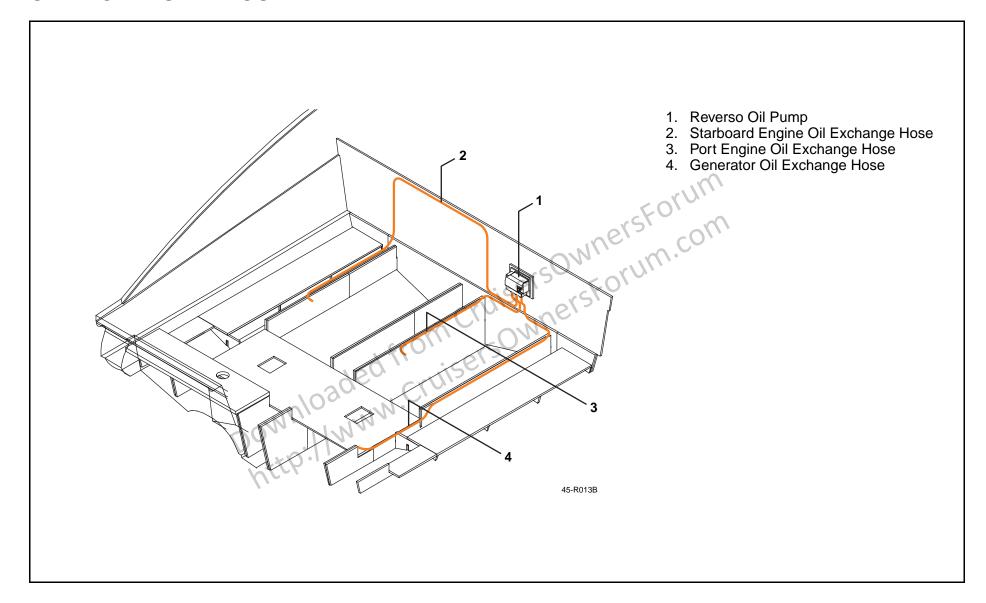




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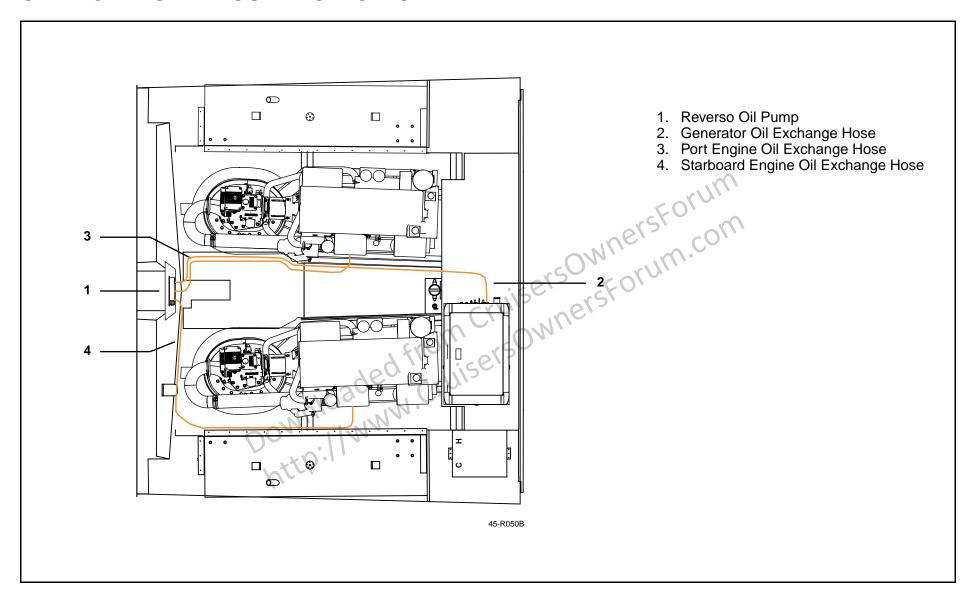
OIL EXCHANGE LAYOUT







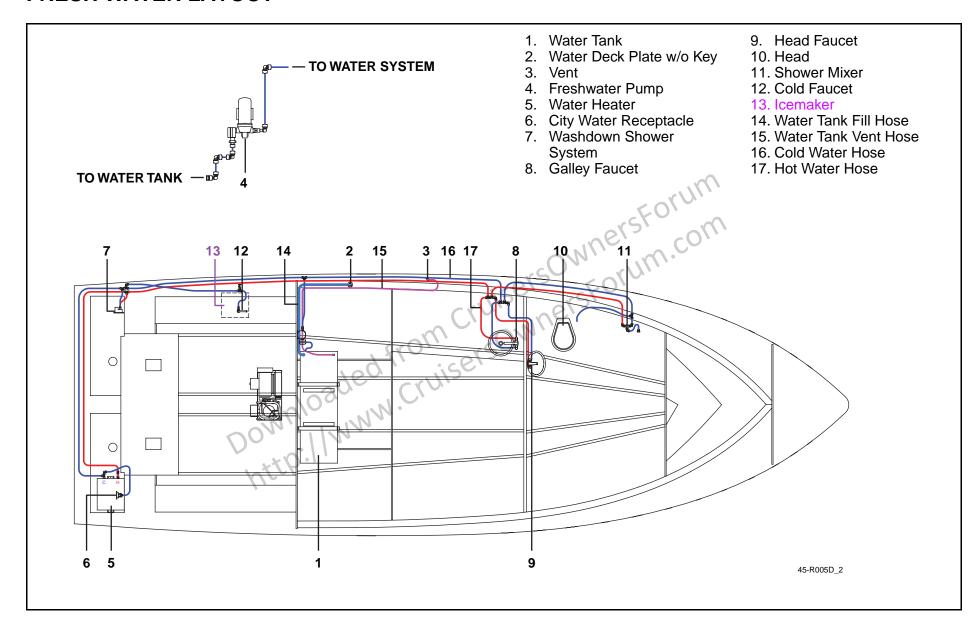
OIL EXCHANGE LAYOUT - VOLVO IPS







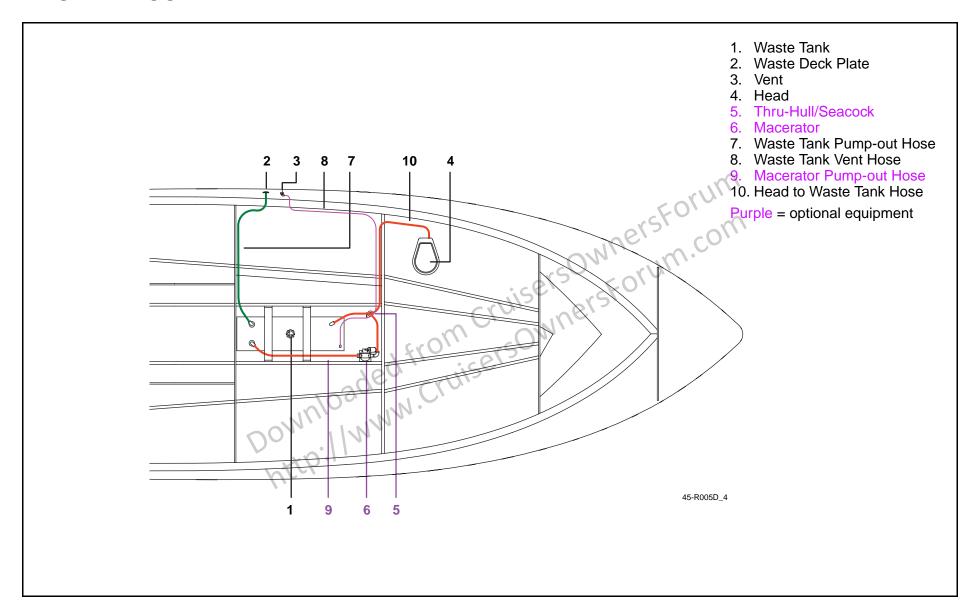
FRESH WATER LAYOUT







WASTE LAYOUT

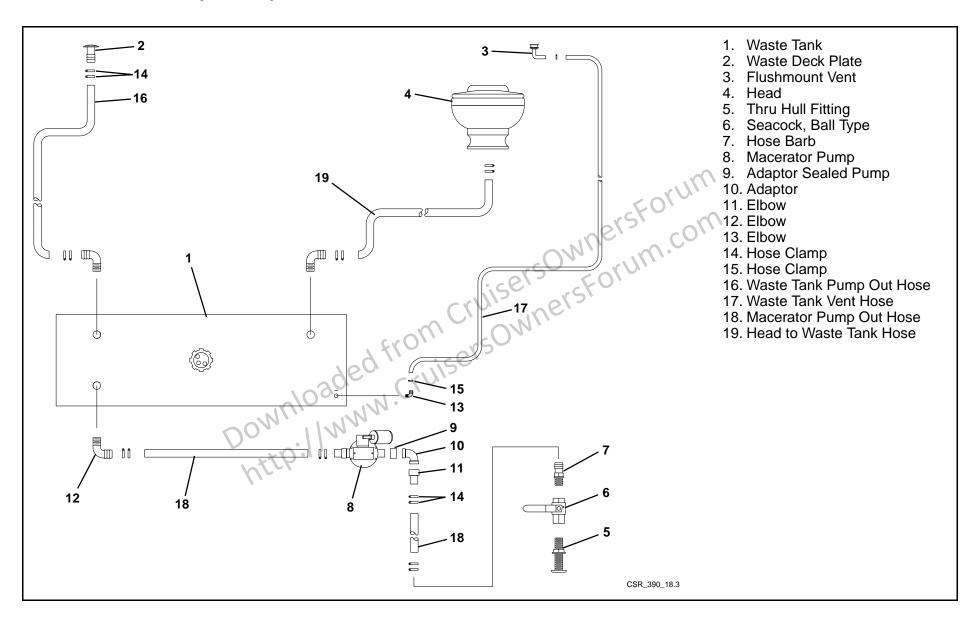




390 Sport Coupe **2-30**



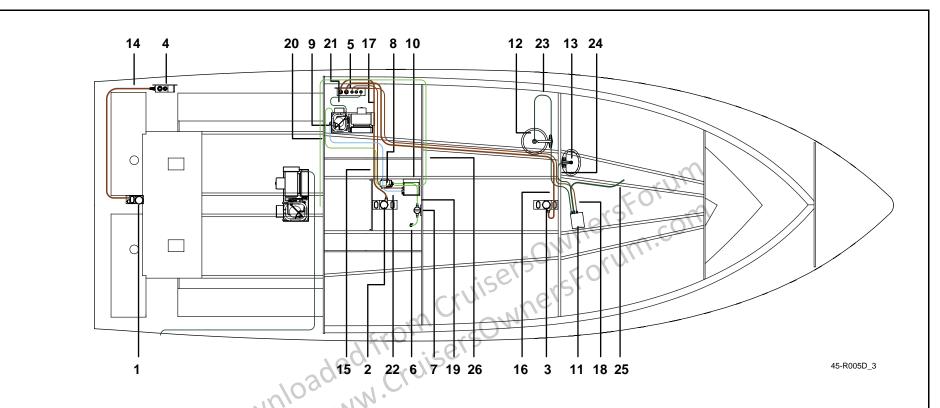
WASTE LAYOUT (CONT.)







RAW WATER LAYOUT



- Bilge Pump/Float Switch/High Water Alarm Switch/High Water Alarm
- 2. Bilge Pump/Float Switch/High Water Alarm
- 3. Bilge Pump/Float Switch/High Water Alarm
- 4. Aft Port Plenum Box Assembly
- 5. Forward Port Plenum Box Assembly
- 6. Intake Strainer/Seacock
- 7. Strainer

- 8. A/C Pump
- 9. Air Conditioner
- 10. Shower Sump Pump
- 11. Shower Sump Pump
- 12. Strainer/Trap
- 13. Drain w/Trap
- 14. Aft Bilge Pump-out Hose
- 15. Mid Bilge Pump-out Hose
- 16. Forward Bilge Pump-out Hose
- 17. Aft Shower Sump Pump-out Hose

- 18. Forward Shower Sump Pump-out Hose
- 19. A/C Raw Water Pickup to Pump
- 20. A/C Raw Water Pickup to Unit
- 21. A/C Raw Water Discharge
- 22. A/C Condensation Hose
- 23. Galley Sink Drain Hose
- 24. Head Sink Drain Hose
- 25. Shower Drain Hose
- 26. Raw Water to Generator



390 Sport Coupe **2-32**

Model Specific Information



LIFTING AND STORING YOUR BOAT

A CAUTION

DO NOT lift a yacht with a large amount of water in the bilge! Undue stress will be put on the hull that may cause damage which is not covered under the warranty.

Slings must never contact or exert a force on shafts, struts or hardware protruding from the hull. This type of stress can damage fiberglass, bend or misalign parts, which is not covered under the warranty.

Use two web slings and 13 ft (4 m) to 16 ft (5 m) spreader bars to lift the yacht based on the width of your yacht's beam. Refer to **SPECIFICATIONS**. Slings must have a minimum width of 6 inches (0.152 m) and a capacity rating high enough to support the yacht. Spreader bars reduce the side pressure at the yacht's sheer line and prevent distortion or damage to the deck or gunwale molding.

Put slings around the hull at positions marked "SLING." The sling decal is located just under the gunwale molding. Make sure the sling contacts the bottom of the hull for the entire length with no twists in the sling.

When lifting the yacht, keep the bow slightly higher than the stern to keep water from running into engine manifold. Water can cause corrosion or damage to the engine.

A CAUTION

When your yacht is out of the water, it is important to support the hull correctly to avoid any hull damage.

The shipping/storage-cradle will provide the proper support at the recommended positions. The load at the cradle support areas is less than 10 pounds per square inch (4.54 kg per .025 m). Make sure the

cradle is level and completely supported on the ground to eliminate any cradle or hull distortion. Contact your Cruisers Yachts Dealer to order a cradle.

If a factory-supplied cradle is not available, use extreme care to support the hull as shown. Do not support yacht by resting hull on keel; the load will be more than 10 pounds per square inch (4.54 kg per .025 m)! Vertical supports must extend from chine to keel to chine with no gaps between the hull and cradle supports. Protect all items extending from the hull from resting on the support or ground. DO NOT apply any load stress to propellers, shafts, rudders, struts or drive systems.

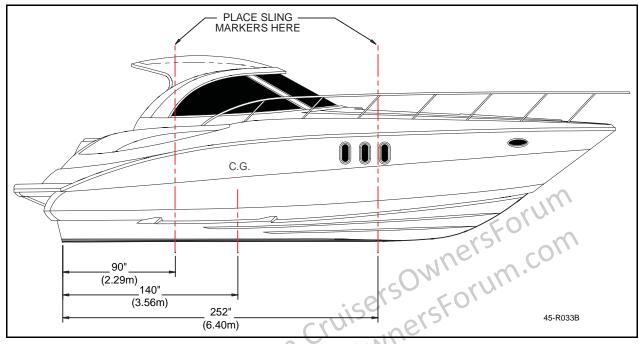
If a cradle can not be used, use foam blocks on the keel and jackstands on the chine.

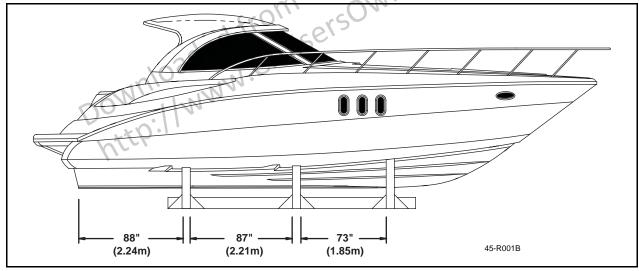
For more information on storing your yacht, refer to STORAGE AND EXTENDED LAY-UP in Section 8 of the Getting Started manual.



2-33 390 Sport Coupe









Model Specific Information



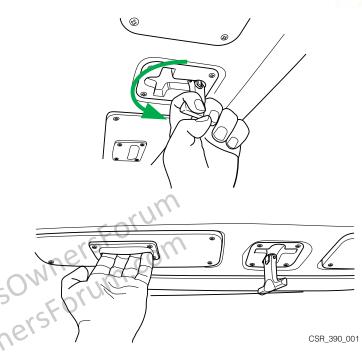
HARDTOP SLIDING SUNROOF

A WARNING

The sunroof not locked in its detents can cause death or serious injury. Lock the sunroof in its detents before getting the boat underway. DO NOT stand in the opening or try to open or close the sunroof when the boat is underway.

The sunroof has three positions; closed, partially opened or fully opened.

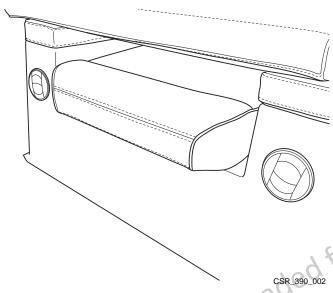
To open, turn the sunroof lock handle counterclockwise to release the sunroof lock from its detents. Grab the roof grips and slide the roof into the desired next position. Guide the roof slowly and DO NOT allow the roof to slam open or close. Return the handle back to its stowed position. Make sure the roof is in its detents before getting underway.



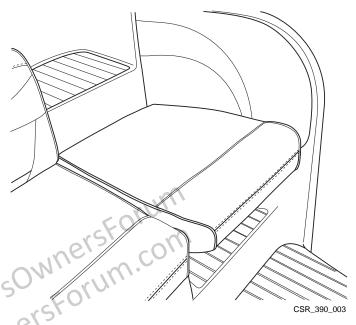


DOUBLE COMPANION SEAT/DINETTE/SUN BED

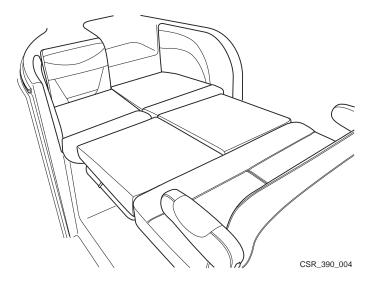
The double companion seat cushion is stowed under the helm passenger seat. The cushion is held into its stowed position by two strong magnets. Make sure the cushion is held by the magnets before getting underway.



The companion cushion can be positioned into the fore deck mid step to create facing seating or, with the dinette table in place, cockpit dinette table seating.



Use the shorter dinette table pedestals and the dinette table top to create a companion sun bed.





Model Specific Information

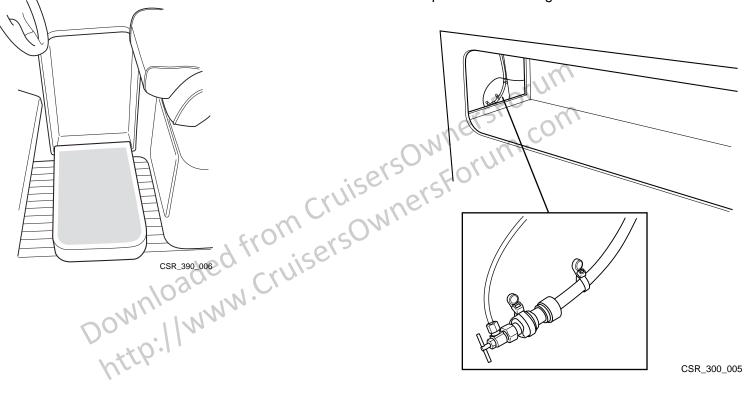


HELM BOOSTER STEP

The helm booster step provides additional height to the operator. Unlock the booster step and gently lower it into position. When the booster step is in the stowed position, make sure it is locked to prevent it from opening.



The windshield washer system uses the freshwater system as its source for water. The washer water valve must be open to provide water for the system. During off-season storage, the system must be winterized to protect components of the system. The valve and washer solenoid is located on the starboard gunwale, behind the starboard panel of the storage area aft of the salon couch.





Downloaded from CruisersOwnersForum.com
http://www.cruisersownersForum.com





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DASH PANEL

Switch Panel Functional Description

If the switch is fitted with LEDs, the LED will illuminate when power is being supplied to the corresponding switch and its function. The switch panel switches are described port to starboard.

1 - SWITCHES

FWD/MID/AFT BILGE PUMPS

These three switches are toggle action switches that control the respective pump. When the switch or switches are pressed, the pumps will turn ON. When the opposite end is pressed, the pumps will turn OFF.

WINDSHIELD WASHER

The WASHER button is a momentary action. The washer will stay on as long as the button is pressed. If a wiper(s) is not ON, the WASHER button will energize the wiper in low speed. The system has an off delay function for the wiper(s) that were energized by the WASHER button allowing the wiper(s) to stay ON for several cycles and then, park. If a wiper was ON prior to the washer cycle, it will remain on at its commanded speed both during and after the washer cycle.

WIPER

This toggle action button controls the windshield wiper. Pressing a button will turn ON the designated wiper in the low speed mode.

Pressing it a second time will turn it ON in the high speed mode.

Pressing it a third time will turn the wiper OFF and park the wiper. The LEDs indicate if the wiper is ON and the speed mode of the wiper.

BILGE BLOWERS

Push to turn ON, push to turn OFF. The LED will indicate if the blowers are ON.

HORN

The HORN switch is a momentary switch controlling the horn. The horn will sound as long as the switch is pressed.

WINDLASS

This switch is a toggle action switch that controls the windlass.

Pressing the ? (UP) or ? (DOWN) will cause the windlass to go up or down.

WINDLASS

This switch is a toggle action switch that controls the power to the windlass.

BILGE

This switch is a toggle action switch that controls the bilge area lights.

When the switch is pressed, the lights will turn ON. When the opposite end is pressed, the lights will turn OFF.

BOARDING LIGHTS

This switch is a toggle action switch that controls the boarding lights.

When the switch is pressed, the lights will turn ON. When the opposite end is pressed, the lights will turn OFF.

COURTESY LIGHTS

This switch is a toggle action switch that controls the courtesy lights.

When the switch is pressed, the lights will turn ON. When the opposite end is pressed, the lights will turn OFF.

RED / WHITE LIGHTING

This switch is a toggle action switch that controls the red and white lighting.

When the red side of the switch is pressed, the red lights will turn ON. When the white side of the switch is pressed, the white lights will turn ON. The lights will be off when the switch is in the "middle" position.



Controls and Indicators



ENGINE ROOM LIGHTS

This switch is a toggle action switch that controls the courtesy lights.

When the switch is pressed, the lights will turn ON. When the opposite end is pressed, the lights will turn OFF.

NAV/ANCHOR LIGHTS

This switch is a toggle action switch, pressing the top of NAV/ANCHOR light switch turns ON the navigation lights. When the opposite end is pressed, the NAV lights will turn OFF and the ANCHOR lights turn ON. Pressing the switch to its NEUTRAL position (center) turns them both OFF. The indicator LEDs will illuminate when power is being supplied to the corresponding light(s).

2 - TRIM TAB CONTROLS

NOTE

Push the trim tab rocker switches in half-second bursts. Holding the rockers down too long will over trim the boat.

The trim tab switches are used to correct the trim of you boat while you are underway.

- To trim the bow of your boat down, push the top halves of both switches.
- To trim the bow of your boat up, push the bottom halves of both switches.

Refer to SUGGESTED MANEUVERING TECHNIQUES in **Section 6** of the **Getting Started** manual.

3 - THROTTLE CONTROLS

The throttle control lever for the port engine is the port side lever and the throttle control lever for the starboard engine is starboard lever.

NEUTRAL is at the center, FORWARD is forward (away from you) one detent and REVERSE is aft (toward you) one detent. Gradually push forward to go into FORWARD and continue to push forward to increase engine speed. Gradually pull aft to go into REVERSE and continue to pull toward you to increase engine speed. Always return the controls to NEUTRAL when the engines are shut down and leave them there when the engines are not running.

4 - IGNITION SWITCHES

The ignition switch for the port engine is on the port side and the ignition switch for the starboard engine is on the starboard side. The ignition

5 - HELM BREAKER PANEL

6 - ELECTRONICS BREAKER PANEL

7 - WINDLASS BREAKER PANEL

8 - DEFROSTER SWITCH

This switch is a toggle action switch that controls the defroster. OFF / LOW / HIGH. Run on high for heat and use the vent diffusers to control and direct heat or air flow.

9 - FIREBOY ALARM

The display unit has an indicator lamp to indicate fire suppression automatic fire extinguisher status. The lamp should glow when the ignition switch is in the ON position indicating a charged system.

Should the system discharge, the lamp will not glow. Refer to the Fire Suppression owner's manual in the Skipper's Kit for complete details.



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10 - HIGH WATER ALARM

The alarm will sound when the high water alarm float switch is activated.

11 - 12 VOLT OUTLET

This receptacle provides 12 volt DC power to portable accessories such as cellular telephones.

Dash Panel Functional Description

12 - BOW THRUSTER (OPTIONAL) OR BOW/STERN BOW THRUSTER (OPTIONAL)

A WARNING

Death or serious injury can result from contact with a rotating propeller. DO NOT operate the bow thruster out of the water.

A CAUTION

Damage to the bow thruster will result from operating the bow thruster out of the water. DO NOT operate out of the water.

Press both ON buttons and the indicator light will illuminate. Move the joystick in the direction you wish to move the bow (\blacktriangleleft = port, \triangleright = starboard). For example, to move the bow to port, move the joystick to port (\blacktriangleleft). This will engage the bow thruster propeller and move the boat to port. Turn off the bow thruster by pressing the OFF button.

The indicator light will go out showing the bow thruster is turned OFF.

If your yacht is equipped with the bow and stern bow thrusters, they can be operated at the same time. The stern bow thruster operates in the same manner as the bow, bow thruster. Move the stern bow thruster joystick in the direction you wish to move the stern $(\blacktriangleleft = port, \blacktriangleright = starboard)$.

IMPORTANT

Both ON buttons have to be pressed at the same time, this is to prevent accidental starting of the bow thruster.

13 - RADIO HANDSET

14 - STEREO

Refer to the Stereo owner's manual that is included in the Skipper's Kit for a detailed description of the functions.

15 - SPOTLIGHT CONTROLS

The spotlight is controlled from the keypad mounted at the helm.

"Tortoise" (SLOW) - Press Tortoise once to select slow light movement.

"Hare" FAST - Press Hare to select fast light movement.

Refer to the Spotlight owner's manual that is included in the Skipper's Kit for a detailed description of the functions.



Controls and Indicators



16 - VHF RADIO

Refer to the VHF Radio owner's manual in the Skipper's Kit for complete details.

17 - AIR CONDITIONER/HEATER DUCTS

These ducts are directional or can be closed.

18 - YANMAR DISPLAY SCREEN

Refer to the Yanmar display screen owner's manual that is included in the Skipper's Kit for a detailed description of the functions.

19 - FUEL GAUGE

IMPORTANT

Do not rely on the accuracy of gauge. Readings are only approximate and should always be compared to the hours of use multiplied by the known fuel consumption (GPH).

This gauge indicates the approximate amount of fuel.

20 - COMPASS

The compass has not been compensated. The compensating should be performed by a qualified compass adjuster. After the compass has ned, DO

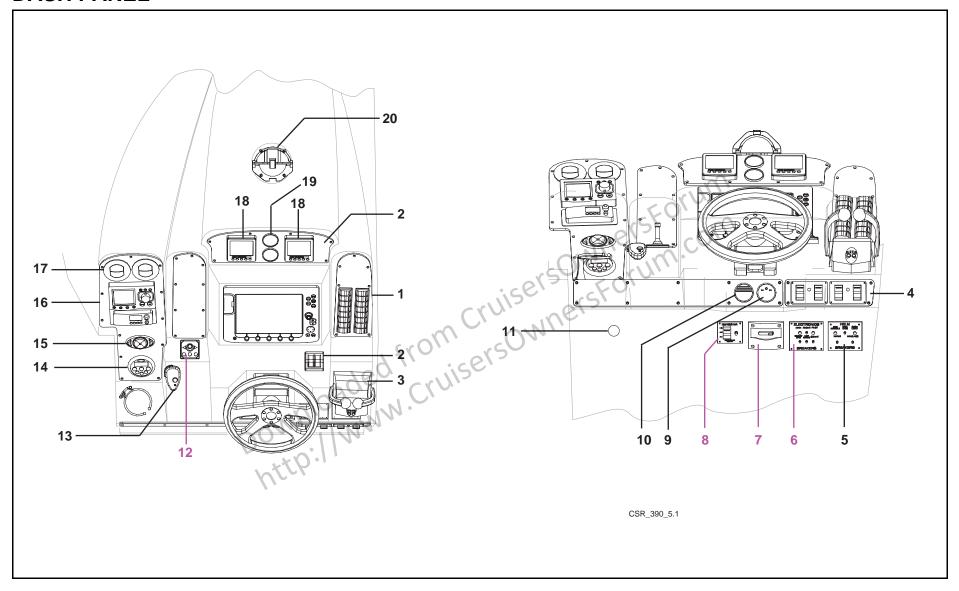
...ity - even ten.
...cluded in the Skippe. been adjusted, DO NOT allow any iron or steel objects to be placed in its vicinity - even temporarily. Refer to the compass owner's manual included in the Skipper's Kit for detailed information.



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DASH PANEL







Section 4 Basic Systems Operation

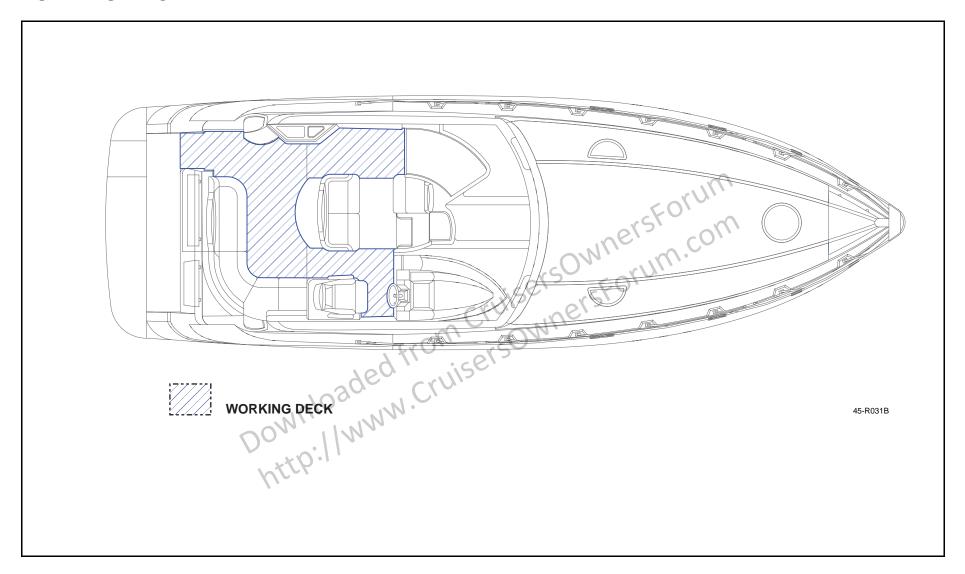
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WORKING DECK





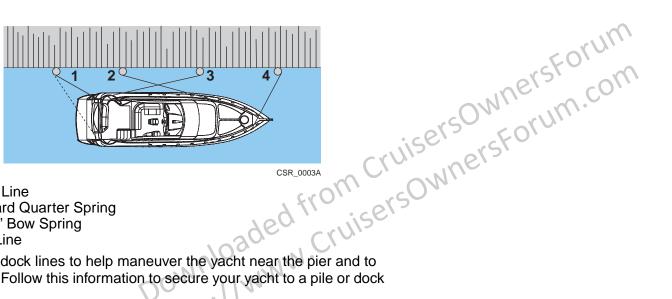
Basic Systems Operation



Handling Dock and Mooring Lines

Make sure to have enough fenders to protect your yacht from damage. Use good-quality, double-braided nylon line and chafing protectors to protect your yacht's finish. Only use cleats, bow eye and stern eyes to secure your yacht, not the handrails or windshield. The foredeck handrails should only be used for tying a "Jackline" in an emergency situation. If possible, tie up your yacht with the bow toward the waves and leave slack in the lines to allow for some wave movement or tidal action.

Spring lines can help you control your yacht when leaving a dock. Make sure to use spring lines when yachting in waters where the waves or tide movement is significant. The forward quarter spring line is fastened to a forward cleat and heads aft. The "after" bow spring is fastened to a stern cleat and heads forward.



- 1. Stern Line
- 2. Forward Quarter Spring
- 3. "After" Bow Spring
- 4. Bow Line

Use your dock lines to help maneuver the vacht near the pier and to secure it. Follow this information to secure your yacht to a pile or dock cleat:

Fasten the bow line to the bow cleat and pull forward at about a 45° angle to keep the yacht from moving astern.

Fasten the stern line to an "after" cleat and pull astern at about a 45° angle to keep the yacht from moving forward.



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POWER TRAIN

Engines

Your yacht is powered by twin inboard engines. All operation, specification and maintenance information is contained in the engine owner's manual. Find this manual, which is located in the Skipper's Kit, and familiarize yourself with it. The engine is the heart of your yacht and following the manufacturer's recommendations will provide you with continued boating pleasure.

INBOARDS

The power generated by the engine is transmitted to the propeller via the transmission, shaft coupling and the propeller shaft assembly. The propeller shaft is supported and aligned with the engine by a throughhull shaft log and an outside strut.

IPS ENGINES

The IPS (Integrated Propulsion System) is a fully integrated propulsion system. The controls, propulsion, rudder and steering who aded frough Cruise system are all integrated. The engine's power is transferred through the hull and into the IPS.

COOLING SYSTEM

CAUTION

The cooling system starts at the cooling water seacock, which can be shut off for a number of reasons. Make sure the seacocks are open before starting engines. The absence of cooling water will cause the engines to overheat and cause irreparable damage.

Each engine is cooled by seawater entering the yacht through a seacock in the hull bottom. The water enters the engine through the engine water jacket and is returned to the sea through the exhaust system.

A feature which is standard on diesel engines is the freshwater cooling system. This system uses the incoming seawater to cool a secondary closed-cooling system. The seawater flows through an engine-mounted heat exchanger, cools the closed-system coolant, and is returned to the sea via the exhaust system.

ALARM SYSTEMS

Alarm systems are on all boats. The alarm will sound under the following conditions:

- Engine temperature exceeds specified limits
- Engine oil pressure drops below specified limits
- Transmission oil temperature exceeds specified limits
- Ignition switches are ON, engines are OFF

To test the alarm system, turn the ignition switch to the ON position. Depending upon the engine, the alarm may sound immediately, or after a few seconds delay.

Engine Ignition Start/Stop

The engine mean breaker must be energized before the engines can be started. The breaker is located on the machinery room breaker panel.

To start the engines:

- Operate the blowers for at least four minutes.
- 2. Turn on the master ignition breaker located on the DC panel in the salon to energize the rocker switches at the helm.
- 3. Press the engine ignition rocker switches forward one position (ignition position).



Basic Systems Operation



4. Press the ignition rocker switches further forward to the second position (start position).

To stop the engines:

Press the aft end of the engine ignition rocker switch or press the E stop rocker switch.

IPS

The IPS is a fully integrated propulsion system. The engine is located in the vacht (inboard) and the propulsion system is on the hull. Power from the engine is sent through the hull into the transmission and then into the propulsion system. The steering system turns the propulsion and rudder system to change the direction of thrust from the propellers. The control systems on IPS are all integrated.

Transmission

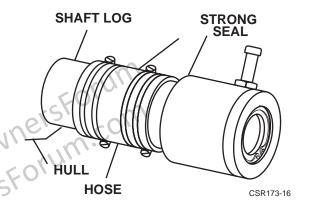
Through a series of gears, the transmission transmits the motive force of the engine to the propeller. The transmission has one forward and one reverse speed, and is shifted by the transmission selector on the dash. All the operation, specification and maintenance information is contained in the engine owner's manual.

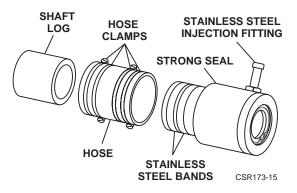
Shaft Assembly - Inboards

This assembly makes it This assembly makes it possible for the shaft to penetrate the hull bottom without allowing water to enter around the joint. The shaft coupling is the connecting point between the engine and the shaft assembly.

SHAFT LOG - INBOARDS

The shaft log is laminated to the hull. A rubber hose is clamped to the shaft log and to the shaft seal. The flexibility of the rubber hose allows it to absorb minor engine shock, such as moving from forward to reverse, while maintaining a watertight seal on the shaft log and the shaft seal.







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SHAFT SEAL - INBOARDS

A CAUTION

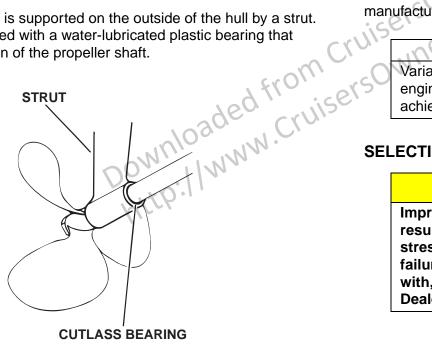
The shaft seal and rubber tubing should be inspected monthly for wear, leakage and deterioration. Excessive water entry, especially if unattended, could result in the submergence of the engine compartment, or of the entire yacht.

Strut and Cutlass Bearing - Inboards

A CAUTION

The cutlass bearing is water-lubricated. Running the propeller out of the water could result in bearing failure and damage to the shaft.

The propeller shaft is supported on the outside of the hull by a strut. The strut is equipped with a water-lubricated plastic bearing that permits free rotation of the propeller shaft.



CSR161-7A

Propellers

A CAUTION

Propellers can be very sharp. Be careful when you handle them. Wear protective gloves when handling any propeller. Remove the key from the ignition switch and remove the Emergency Stop Switch Clip, if you yacht is equipped with stop switches, to prevent accidental starting of the engines. Do not use damaged propellers. Damaged propellers can damage your engine and boat.

The propellers installed on your yacht were selected because their diameter and pitch provide the optimum speed and performance under average conditions of load. Propeller selection must be based on the ability of the engine to turn the propeller and achieve the manufacturer's recommended RPM at full throttle.

NOTE

Variations from average loadings, bottom condition and/or engine condition could call for a propeller change to achieve the performance desired.

SELECTING A PROPELLER - INBOARDS

A CAUTION

Improper propeller selection and installation could result in loss of the propeller, and/or excessive stresses on the power train leading to power train failure. Cruisers Yachts recommends that you consult with, and employ the skills of, your Cruiser Yachts Dealer when contemplating a propeller change.



Basic Systems Operation



A WARNING

Dual engine installations normally include a standard rotation engine and a counter-rotation engine. If you remove the propellers, make sure the propeller is correct for the rotation of the engine before operating the yacht. Always follow the instructions in the stern drive owner's manual in the Skipper's Kit when removing, replacing and selecting a propeller.

First, ensure that the diameter and pitch provide the desired performance. The engine RPM at full throttle should be in the upper half of the recommended full-throttle operating range. If RPMs are low, a propeller with a smaller pitch will increase RPMs. If RPMs are high, a propeller with an increased pitch will lower RPMs.

Second, ensure that the propeller rotation is consistent with engine and gear box rotation. Your yacht is designed with counterrotating inboards for minimum torque effects.

Third, ensure that the installation provides adequate safety features such as a straight key, a propeller nut, a jam nut and a cotter pin.

SELECTING A PROPELLER - IPS

A CAUTION

Improper propeller selection and installation could result in loss of the propellers, and/or excessive stresses on the IPS leading to IPS and engine failure. Cruisers Yachts recommends that you consult with, and employ the skills of, your Cruiser Yachts Dealer when contemplating a propeller change.

A WARNING

Engine installations include a combination of standard rotation and counter-rotation engine propellers. If you remove the propellers, make sure the propellers are reinstalled correctly before operating the yacht. Always follow the instructions in the IPS owner's manual in the Skipper's Kit when removing, replacing and selecting a propeller.

First, ensure that the diameter and pitch provide the desired performance. The engine RPM at full throttle should be in the upper half of the recommended full-throttle operating range. If RPMs are low, a propeller with a smaller pitch will increase RPMs. If RPMs are high, a propeller with an increased pitch will lower RPMs.

Second, ensure that the installation provides adequate safety features and all components are used. Refer to the IPS owner's manual in the Skipper's Kit for general maintenance and removal, and installation instructions.



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FUEL SYSTEM (CROSSOVER VALVE)

Your yacht is equipped with an internal fuel system meeting current federal requirements. The best materials and components available are used to assemble the fuel system.

The fuel tank outlets to the engines have a manual valve for fuel shutoff in the event of a line break. To access the manual valves or tank fittings, open the fuel access hatch. The valves are on the top of the fuel tank. These valves are attached to the fuel tank outlet and return lines. The valves are closed when the handle is perpendicular to the fuel line, and open when the handle is in-line with the fuel line.

There are also crossover valves between the tanks located at the top of the fuel tanks under the fuel access hatch.

Fuel fill caps are located on the deck walk-around of the yacht. Near the fill cap is a vent which allows air to move in and out of the tank as the fuel level changes.

The manual valves can control the fuel supply to the engines in five ways:

- 1. Both handles pointing outboard shuts the flow of fuel OFF.
- When both handles point inboard, each engine can receive fuel from its respective tank; the port engine receives fuel from the port fuel tank and the starboard engine receives fuel from the starboard tank.
- 3. When both handles point forward, both engines receive fuel from both tanks.
- 4. With the port handle pointing forward and the starboard handle pointing outboard, both engines receive fuel from the port tank.
- 5. With the port handle pointing outboard and the starboard handle pointing forward, both engines receive fuel from the starboard tank.

A WARNING

Inspect the entire fuel system regularly. Leaking fuel and fumes are a fire and explosion hazard that can explode causing injury or death.

All fuel system components must be checked before each boating season and regularly during the season for any leaks or bad hose conditions. Make sure the fuel system is leak-free.

STEERING SYSTEM

A WARNING

DO NOT operate your yacht if you suspect a problem with the steering system. Have your Cruiser Yacht Dealer inspect the steering system immediately if you suspect a problem. Operating the yacht with a malfunctioning steering system could cause injury or death.

Inboard-Equipped Yachts - Your yacht is equipped with hydraulic steering. The rotation of the steering wheel results in an unbalanced hydraulic (oil) pressure in the two lines going from the helm to the rudder cylinder. The pressure differential is converted to linear motion by the hydraulic steering cylinder which is mechanically linked to the rudder tiller arms. Both rudder tiller arms are rigidly connected by a tie bar so that both rudders respond equally to the helm. In an emergency, steering can be controlled by using the throttle controls and operating one engine at a time or by disconnecting the steering arm at the rudders and directing them.

IPS-Equipped Yachts - The steering system on IPS-equipped yachts is integrated with the engine and propulsion system. In an emergency, steering can be controlled by using the throttle controls and operating one engine at a time.



Basic Systems Operation

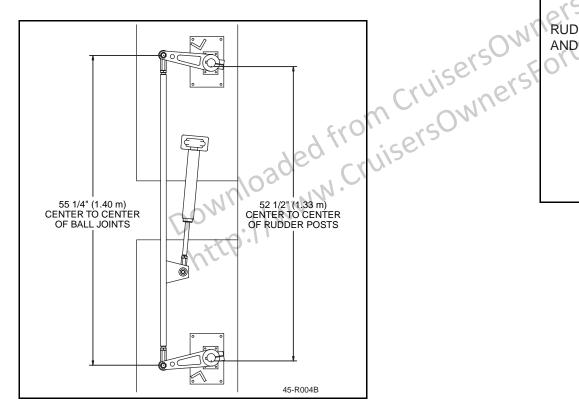


Steering Wheel

The steering wheel uses the assistance of power steering to permit turning of the steering wheel with minimum effort. It is important that you know how your yacht operates and are aware of its limitations.

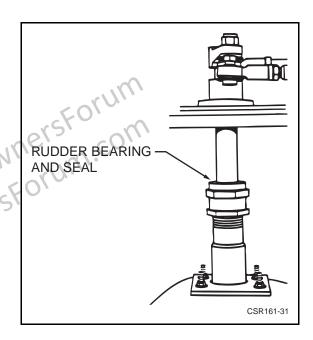
Rudder - Inboards

The twin rudders are offset from the shaft centerline to allow shaft removal without having to remove the rudders. Each rudder is also canted inboard slightly to allow for a constant pressure of water to act upon the rudder face. The pressure on the rudder face prevents "flutter" in a 0° rudder position.



A CAUTION

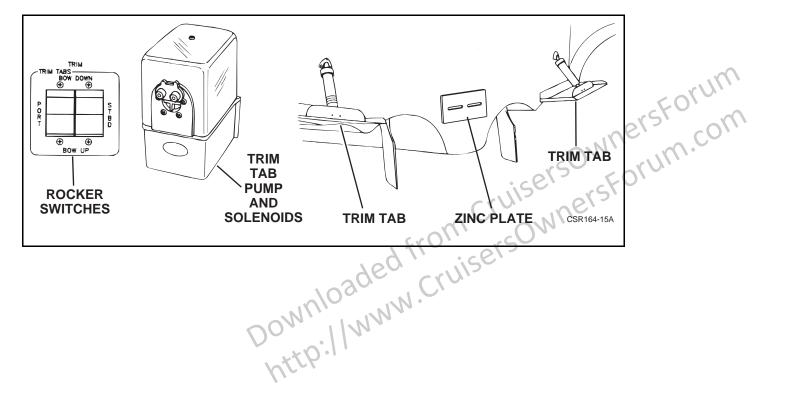
The carrier seal should be inspected regularly for excessive water entry. If left unattended, excessive water entry could result in the submergence of the engine compartment, or of the entire yacht.





TRIM TABS

The trim tab system is an electro-hydraulic system. Two rocker switches, marked port and starboard, control a hydraulic pump and solenoids. The pump sends hydraulic oil to hydraulic actuators (cylinders) which lower the trim tabs. To raise the trim tabs, the rocker switch is moved which allows oil to flow from the actuator to the pump.





Basic Systems Operation



ELECTRICAL SYSTEM

Your yacht is equipped with two electrical systems: a battery powered direct current (DC) system and a generator or shore-powered alternating current (AC) system. Both systems are controlled from the AC/DC master panel.

The DC system supplies power to all of the yacht's 12V electrical circuits (lights, pumps, blowers, ignition, etc.).

The AC system supplies power to the 120/240-volt systems when the yacht is moored at the dock or slip, or when the generator is running.

A DANGER

A glowing red polarity light indicates reversed polarity electrical shock hazard exists and damage to appliances will occur. DO NOT use shore power while red light is ON. Disconnect the shore cord and have the shore outlet serviced by a qualified electrician aded from Cruisers before using.

DC Electrical System

A DANGER

Considerable care has been taken to design a safe electrical system to protect you from hazardous shocks. Any modifications to the system should always be done by an authorized Cruisers Yachts Dealer not only to protect your warranty, but to protect vou from hazardous shock.

Your yacht has a 12-volt DC house system. The positive wire is hot, and feeds current from the batteries to the various 12-volt systems and the negative wire is the ground.

Some yacht and engine options may be equipped with up to five batteries. There is a cranking battery for each engine or can be two batteries in parallel for 12-volt house power, a generator battery and an optional bow thruster battery. Not all yachts offer this as an option.

When the engines are running, all batteries are charged by the alternators. There is a battery charger for the house and cranking batteries. The battery chargers are powered by either the dockside or generator 120V AC power. The generator battery is charged by the generator.

The DC system wires are identified by three colors. Red wires are +12 volts, yellow wires are DC common and gray wires are DC control wires. Bonding wires are green. AC system wires utilize three colors. White wires are AC neutral. Black wires are AC hot wires in 120V AC systems. Black and red wires are the ungrounded wires in 240V AC power systems.

Individual harness wires are identified with wire number and function by lettering which is printed by an ink jet printer every 3 inches (.076 m) on the wires. This information aids in identifying wire functions for troubleshooting. Battery cables are identified by labels on both ends of each cable.

A bonding wire is extended through a #6 green wire from the bonding strip to a terminal behind the instrument panel. This will facilitate electronics installation. In addition, the handrails are attached to the bonding system.

All batteries are isolated from each other by a battery isolator. When the engines and ignition switches are OFF, the isolator prevents house battery loads from discharging the cranking batteries. When the batteries are being charged by the alternators, the isolator automatically isolates the batteries and will distribute the charge among the batteries according to individual need.



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DC Master Panel

The DC master panel consists of a voltmeter, ammeter, a battery test switch, a series of switch type and resettable circuit breakers, a generator start switch and the DC main circuit breaker.

The meter is a convenience feature which allows you to check on the condition of the three batteries. With master breaker switch in OFF position, turn battery test switch to:

- STBD to check the starboard engine cranking battery
- PORT to check the port engine cranking battery
- GENERATOR to check the generator cranking battery

The switch type circuit breakers allow you to manually enable or interrupt a circuit by moving the switch on or off, and they protect the system receiving the DC power by automatically opening the circuit should a short or overload condition occur.

The resettable circuit breakers protect the system receiving the circuit should a short or overload condition occur.

The resettable circuit breakers protect the system of the system of

OPERATION OF DC SYSTEMS

Read through the table on the following page(s) to familiarize yourself with the DC systems on your yacht.

A DANGER

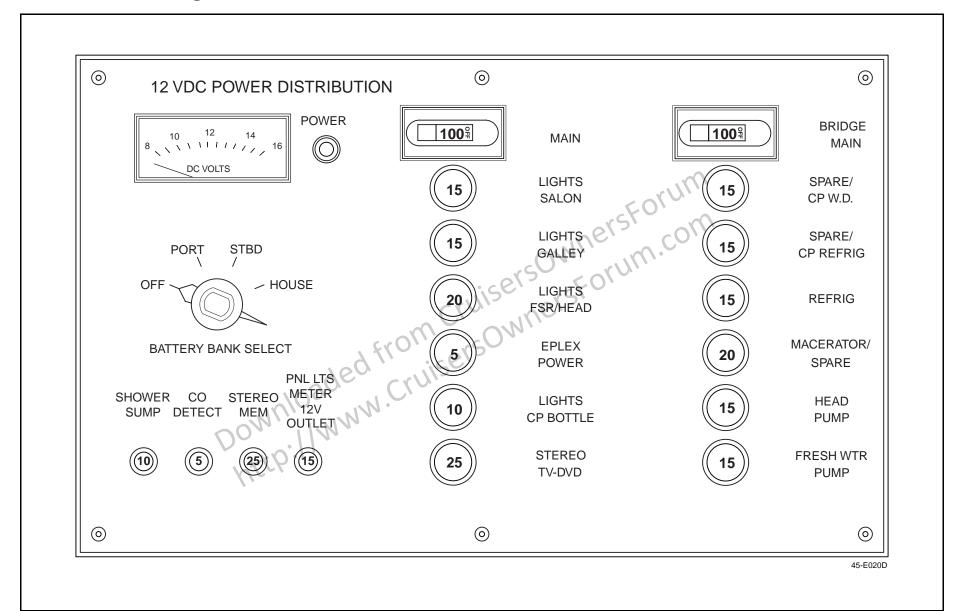
A glowing red polarity light indicates a reversed polarity electrical shock hazard exists and damage to appliances will occur. DO NOT use shore power while red light is ON. Disconnect the shore cord and have the shore outlet serviced by a qualified electrician before using.







DC Panel - Without Ignition







DC Panel Circuit Breaker Functions

| DC Circuit Breaker | Function |
|---------------------|---|
| DC MAIN | Put the breaker in the ON position to connect power to rest of the circuit breakers on the panel except the bilge pumps and the CO detectors. The automatic bilge pump circuit breakers are mounted on the AUTOMATIC BILGE PUMP C.B. PANEL located in the engine room. If any of the breakers are tripped, the white button popped out, reset them immediately. The STEREO MEM, SHOWER SUMPS and CO DETECTORS circuit breakers are connected to +12V DC, which is switched ON and OFF at the house battery switch. The CO DETECTORS and SHOWER SUMPS circuit breakers should be reset immediately if they are tripped. CAUTION: If the house battery switch is OFF, the CO detectors are NOT ACTIVE. There is no CO detector warning if the house battery switch is OFF. |
| LIGHTS SALON | Put the circuit breaker in the ON position to connect power to the salon light switches. |
| LIGHTS GALLEY | Put the circuit breaker in the ON position to connect power to the galley light switches. |
| LIGHTS FSR/HEAD | Put the circuit breaker in the ON position to connect power to the forward stateroom and head light switches. |
| EPLEX POWER | Put the circuit breaker in the ON position to connect power to the EPLEX PDM Module. |
| LIGHTS CP BOTTLE | Put the breaker in the ON position to connect power to the cockpit bottle storage light switch. |
| STEREO/TV/DVD | This breaker connects power to the stereo, TV and DVD. |
| BRIDGE MAIN | Put the breaker in the ON position to connect power to the bridge breakers. |
| CP W.D. | Put the breaker in the ON position to turn on the cockpit wash down pump, if equipped. |
| SPARE/CP REFRIG | Put the breaker in the ON position to turn on the cockpit refrigerator, if equipped. |
| REFRIG | Put the breaker in the ON position to connect power to the galley refrigerator. |
| MACERATOR/ SPARE | Put the breaker in the ON position to turn on the macerator, if equipped. |
| HEAD PUMP | Put the breakers in the ON position to connect power to the head pump. Power to the pumps must be ON or the electrically controlled VacuFlush heads will not flush. |
| FRESH WTR PUMP | Put the breaker in the ON position to turn on the fresh water pump and the fresh water tank gauge. The pump will turn on automatically when a fresh water demand is actuated, i.e. opening a faucet, and will run at the speed required to maintain water flow. |
| SHOWER SUMP | This breaker connects power to the shower sump pump for automatic pump operation. The shower sump pump is turned on by a float switch when the water level causes the float switch to rise. In addition to the showers, air conditioners and sinks drain into the sump, requiring continuous automatic operation. |
| CO DETECT | This breaker connects power to the CO detectors. The breaker is connected to the +12 volts house battery switch, bypassing the DC MAIN circuit breaker for continuous CO detection. Reset this breaker immediately if it is tripped. |
| STEREO MEM | This breaker connects power to the stereo and DVD memory. |



390 Sport Coupe **4-14**

Basic Systems Operation

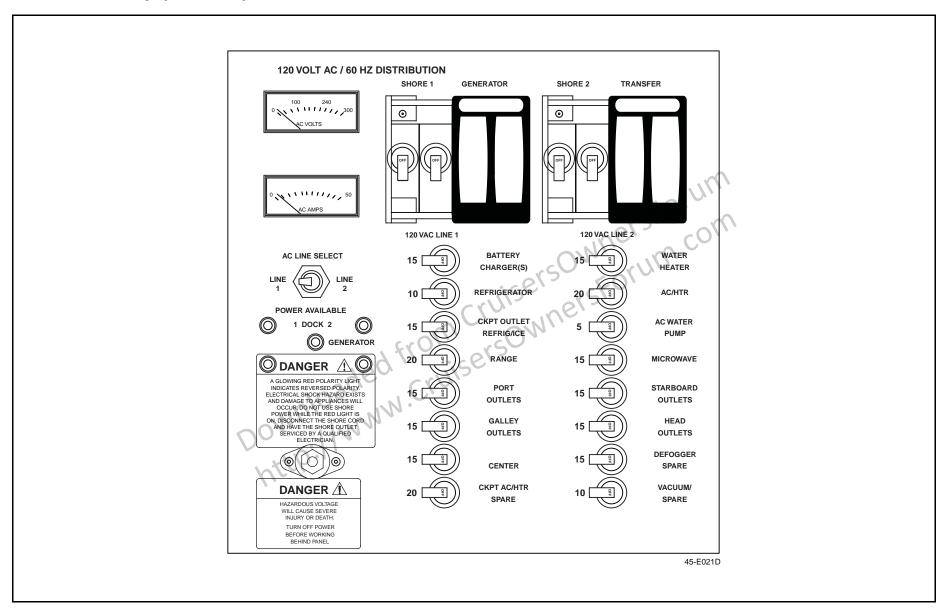


| DC Circuit Breaker | Function |
|---|---|
| PNL LTS | This breaker connects power to the panels lights. |
| 12V OUTLET | This breaker connects power to the 12-volt outlet. |
| PORT ENGINE/ STARBOARD ENGINE | Energize ignition switches. |
| GENERATOR CONTROL | Turns OFF/ON the engine compartment blowers for when the generator is operated and to START/STOP the generator. |
| ADDITIONAL CIRCUIT BREAKER PANELS | There are two additional circuit breaker panels located in the yacht for localized functions. The panel locations and functions are shown. Food Food |
| | http:// |





US Stds 50 Amp (240V AC)

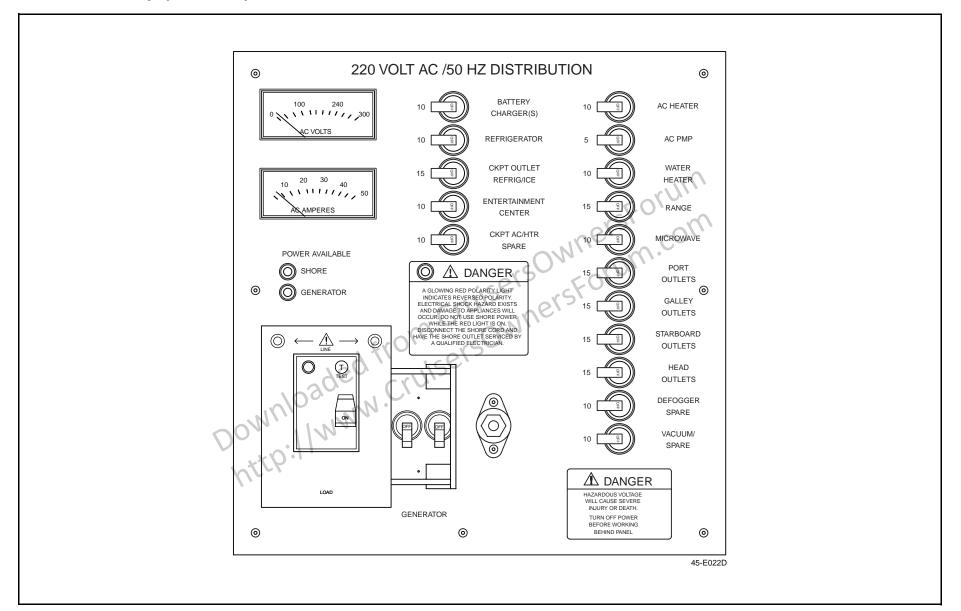




4-16



Intl Stds 32 Amp (220V AC)





AC Electrical System

WARNING

Considerable care has been taken to design a safe electrical system to protect you from hazardous shocks. Any modifications to the system should always be done by an authorized Cruisers Yachts Dealer not only to protect your warranty, but to protect you from hazardous shock.

AC POWER

The standard AC electrical system in the **390 Sport Coupe** is wired for 120/240 volts AC, 50 amps, single-phase, 60-hertz power. This Journected to the Journected to the Journel of the

power.

International Version

220V AC, 32-amp, 50-hertz single-phase is the optional international power system. An on-board generator will furnish 220V AC 50-hertz power.

The load center can receive power from dockside or the generator. For dockside power, move the slide protector over the generator breaker and turn on the dockside breaker. For generator power, move the slide protector over the dockside breaker and turn on the generator breaker.

A CAUTION

DO NOT reset a breaker which has been automatically tripped without first discovering and remedying the cause of the problem.

The circuit breakers' function is twofold; they allow you to manually enable or interrupt a circuit by flipping the switch on or off, and they also protect the system receiving the AC load by automatically breaking the circuit in cases of shorts or overloads.



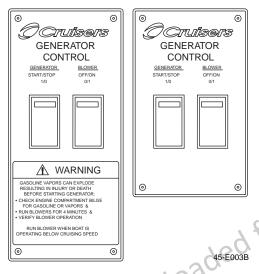
Basic Systems Operation



GENERATOR

IMPORTANT

Read the generator owner's manual contained in the Skipper's Kit before operating the generator for the first time. The manual contains important operation and maintenance information.



The generator may be started from the engine batteries unless your yacht is equipped with a separate battery for the generator only.

To start the generator, hold generator switch in the START position until you hear the generator has started, then release switch. The switch will automatically return to the RUN position and AC power is applied to the load center or centers selected.

Turn generator OFF by placing the generator switch in the STOP position.

The power transfer slide protector prevents accidental use of shore power and generator power at the same time. Slide protector positioning is discussed under **OPERATION OF AC SYSTEMS**.

OPERATION OF AC SYSTEMS

Connecting Shore Power Cable:

- Make sure the shore dockside breaker, the yacht main dockside breaker and the yacht AC/DC panel DOCKSIDE breakers are in the OFF position.
- 2. Connect the shore power cable to the yacht receptacle and then connect the shore power cable to the dockside power source.
- 3. Be sure the DC MAIN circuit breaker is OFF and any 120V AC or 240V AC that should not receive power immediately are switched OFF. If the indicator lights are normal, then the DOCKSIDE 240/ 120V AC circuit breaker may be switched on. AC and DC circuit breakers may then be switched ON as needed.

A CAUTION

DO NOT turn the DOCKSIDE 240/120V AC breaker on if the REVERSED POLARITY light is ON. Severe damage to the electrical system could result. Disconnect the cable and have the fault corrected by a qualified electrician.

4. Switch the shore dockside breaker to the ON position. Switch the yacht dockside power breaker to the ON position. Then check the AC/DC panel POWER SOURCE AVAILABLE indicator lights. The 120V AC LINE 1, V AC DOCKSIDE and 120V AC LINE 2 indicator lights should be ON. The REVERSED POLARITY light should be OFF.

Disconnecting Shore Dockside Power:

Switch the yacht DOCKSIDE 240/120V AC circuit breaker OFF. Switch the yacht dockside power circuit breaker OFF. Switch the shore dockside power circuit breaker OFF. Then the dockside power cable may be disconnected.



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AC Panel Circuit Breaker Functions

When the AC panel is receiving power the following circuit breakers can be switched ON. Refer to the LIGHT PLAN LAYOUT(s) in **Section 2** for location details.

| AC Circuit Breaker | Function |
|---------------------------|--|
| BATTERY CHARGER(S) | To operate the battery chargers, place the circuit breaker in the ON position. The battery chargers provide automatic battery charging. They generate 24V DC to charge the associated batteries. Move the breaker to the OFF position to turn the battery charger OFF. |
| REFRIGERATOR | Switch the breaker ON to connect power to the refrigerator. Refer to the Skipper's Kit for refrigerator/freezer operation instructions. |
| CKPT OUTLET REFRIG/ICE | Switch the breaker ON to connect power to the cockpit outlet and refrigerator/ice maker. Refer to the Skipper's Kit for refrigerator/ice maker operation instructions. |
| RANGE | Switch the breaker ON to connect power to the galley range. Refer to the Skipper's Kit for range operation instructions. |
| PORT OUTLETS | Switch the breaker ON to connect power to the port 120V AC outlets. |
| GALLEY OUTLETS | Switch the breaker ON to connect power to the galley 120V AC outlets. |
| ENTERTAINMENT CENTER | Switch the breaker ON to connect power to the entertainment center (stereo and TV). |
| CKPT AC/HTR SPARE | Switch the breaker ON to connect power to the air conditioner water pump or heater for the cockpit area. The pump must be switched ON when either or both air conditioners are ON. |
| WATER HEATER | Switch the breaker ON to connect power to the water heater. Refer water heater instructions in the Skipper's Kit for proper operation. |
| AC/HTR | Switch the breaker ON to connect power to the salon air conditioner/heater. |
| AC WATER PUMP | Switch the breaker ON to connect power to the air conditioner water pump. The pump must be switched ON when either or both air conditioners are ON. |
| MICROWAVE | Switch the breaker ON to connect power to the microwave oven. Refer to the Skipper's Kit for detailed oven operating instructions. |
| STARBOARD OUTLETS | Switch the breaker ON to connect power to the starboard 120V AC outlets. |
| HEAD OUTLETS | Switch the breaker ON to connect power to the head 120V AC outlets. |
| DEFOGGER SPARE | Switch the breaker ON to connect power to the bridge defogger, if equipped. |
| VACUUM/SPARE | Switch the breaker ON to connect power to the central vacuum, if equipped. |



390 Sport Coupe **4-20**



A DIVISION OF KCS INTERNATIONAL, INC. LIMITED WARRANTY

REGISTRATION OF PURCHASE: The "Federal Boat Safety Act of 1971" requires all boat manufacturers to maintain a record of all first retail purchasers and their current address for the purpose of notification in case of defective parts or equipment, or in case of non-compliance with standards or regulations set forth by this act. Failure to complete and return your factory warranty card for our records will waive your right to notification of defect and/or repair at manufacturer's expense. THIS LIMITED WARRANTY CAN BE ACTIVATED ONLY BY SUBMITTING THE "LIMITED WARRANTY REGISTRATION CARD" TO CRUISERS YACHTS WITHIN THIRTY (30) DAYS OF THE DATE OF PURCHASE.

WARRANTY COVERAGE: CRUISERS YACHTS, a division of KCS INTERNATIONAL, INC., warrants to you, Consumer, subject to the limitations and exclusions described below, that those parts of the new boat manufactured by CRUISERS YACHTS, and purchased from an authorized Cruisers Yachts dealer, are free from defects in material and workmanship under normal use and service. The duration of this warranty is as follows: (1) The structural sections of the hull and deck for a period of 5 years beginning the date of delivery to the first consumer. (2) As the other parts and components manufactured by CRUISERS YACHTS for a period of 1 year beginning the date of delivery (except for exclusions listed below). (3) CRUISERS YACHTS warrants the gelcoat finish below the waterline against blistering for a period of (3) three years from the date of sale, provided that the boat is maintained annually and records are forwarded to the Cruisers Yachts Service Department annually.

WARRANTY CLAIM PROCEDURES: If a defect is discovered during the applicable warranty period, Consumer must promptly notify the selling dealer (or CRUISERS YACHTS) of such in writing. In no event shall such notification be received by the dealer (or CRUISERS YACHTS) later than 30 days of the discovery of the defect. All warranty claims must first be made to the dealer from whom the boat was purchased. The dealer will contact CRUISERS YACHTS, who at that time will determine whether the defect is covered by this limited warranty and advise the dealer. For warranty service the boat must be returned to the selling dealer or if determined by CRUISERS YACHTS to our factory. A boat may not be returned to the factory unless prior written authorization, in accordance with instructions set forth in CRUISERS YACHTS return authorization, from CRUISERS YACHTS SERVICE MANAGER. Transportation, preparation, disassembly and reassembly cost to and from the dealer or CRUISERS YACHTS will be the responsibility of the owner.

REMEDY: Within a reasonable time after notification, **CRUISERS YACHTS** will repair any defect in materials or workmanship or at its option, correct such defect by replacing nonconforming goods or parts. Such repair and/or new parts are warranted for the unexpired portion of the original warranty, or for 90 days, whichever is longer. Warranty work (parts and/or labor) shall be at **CRUISERS YACHTS** expense. These remedies are the Consumers exclusive remedies for breach of warranty.

LIMITATION AND EXCLUSIONS: This warranty applies only if the boat is used under noncommercial normal use and service, and shall not apply to the following: (1) Boats subjected to negligence, abuse, misuse, or accident. (2) Boats subjected to improper operation, trailering, maintenance or storage, commercial use or use for purposes other than those for which the boat was designed. (3) Defects or damages caused by a force or impact which exceeds design specifications, including but not limited to, exposure to harmful solvents and electrolysis. (4) Defects or damages caused by unauthorized attachments or modifications. (5) Any statements, representations or warranties given by dealers or

third persons other than those provided within this warranty. (6) Any unit which is part of a rental fleet, used for racing or commercial purposes. (7) The following consequential damages: (a) loss of time, (b) inconvenience, (c) towing charges, (d) expenses for travel, lodging, telephone and fuel, (e) loss or damage to personal property or loss of revenue, (f) loss of use of the boat, (g) haul out, launch, lift charges. (8) This warranty specifically does not apply to engines, stern drives, IPS, transmission, generators, propellers, improper adjustment of controls, adjustment or realignment to any components including, but not limited to the drive train, and any other parts expressly warranted by the manufacturer thereof. (9) Also excluded are gelcoat crazing, gelcoat stress cracks, gelcoat fading, stainless steel hardware, windshields, glass breakage, all vinyl upholstery, cockpit seat wood, acrylic top enclosures, carpet, electronics, light bulbs, gauges and other equipment or accessories manufactured by manufacturers other than Cruisers Yachts, which are separately warranted by such other manufacturers (appropriate adjustments therefore being provided by their respective manufacturers). (10) Any published or announced catalog or performance characteristic of speed, fuel and oil consumptions and static or dynamic attitude in the water. (11) Cruisers Yachts shall not be effective or actionable if any repair or replacement work is performed by any unauthorized party. (12) Boats manufactured with Cruisers Yachts applied ablative bottom paint does require re-coating based on the region your boat is operated in. Re-coating is a responsibility of the owner.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANT ABILITY AND FITNESS FOR A PARTICULAR PURPOSE, DO NOT EXTEND BEYOND THE DURATION OF THE EXPRESS WARRANTIES PROVIDED HEREIN.

IN NO CASE SHALL CRUISERS YACHTS BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, STRICT TORT, OR ANY OTHER LEGAL THEORY. THIS LIMITATION DOES NOT APPLY TO CLAIMS FOR PERSONAL INJURY.

SOME STATES DO NOT ALLOW THE EXCLUSION AS LIMITATION OR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

TRANSFERABILITY: All rights and terms of this limited warranty may be transferred to new owners of the covered product by completing a **TRANSFER OF WARRANTY FORM** and submitting a written request to Cruisers Yachts and accompanied by a \$150.00 payment to Cruisers Yachts.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

CRUISERS YACHTS reserves the right to improve its products through changes in design and/or material without being obligated to owners of boats of similar or the same model prior manufacture.

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