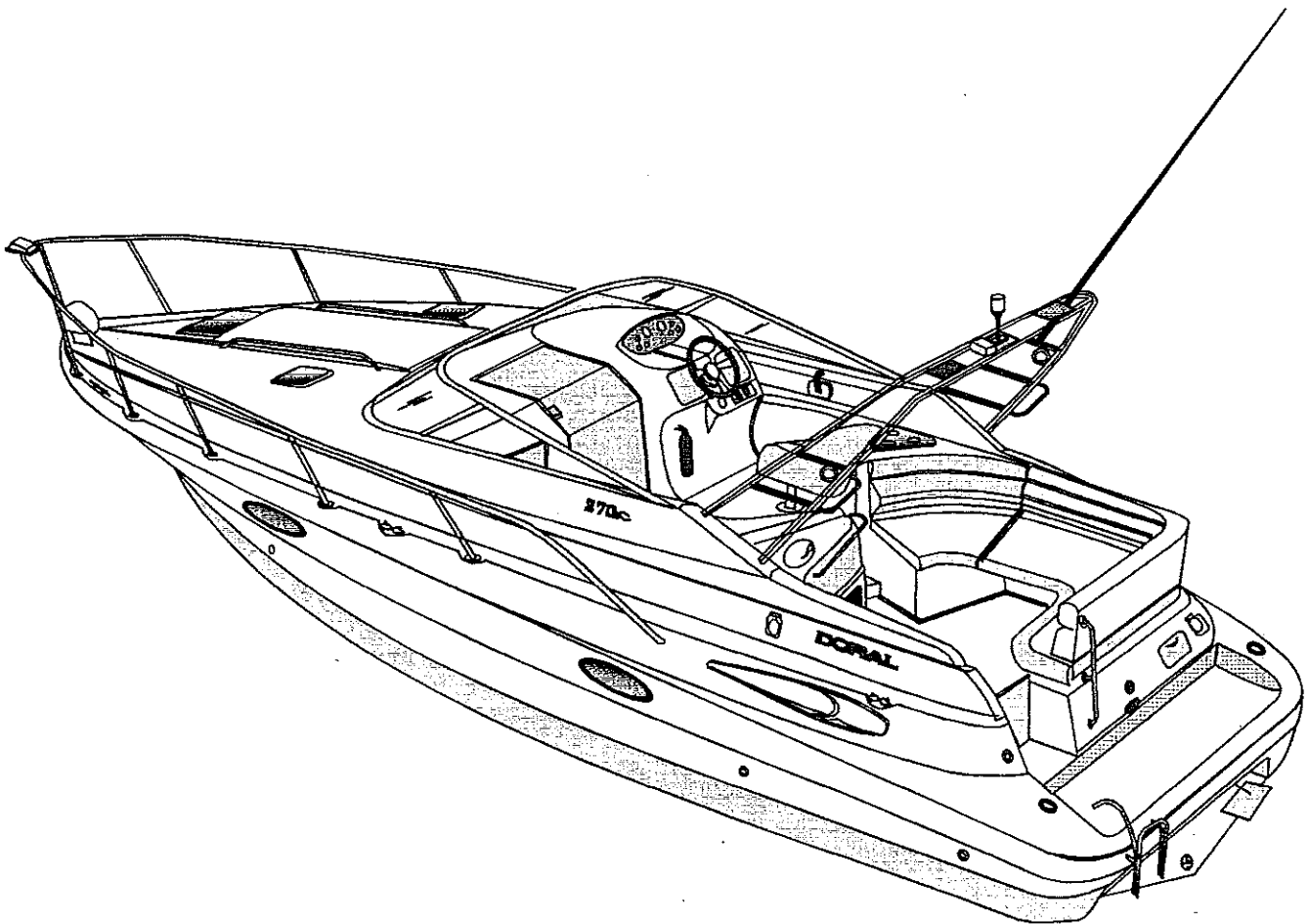


# OWNER'S MANUAL

ISO 10240 - ABYC - NMMA

## DORAL 270 SC



**DORAL**  
INTERNATIONAL

# OWNER'S MANUAL

ISO 10240 - NMMA - ABYC

## WELCOME ABOARD

ISO 10240-5.1.1

Doral International Corporation is happy to welcome you into the great family of Doral boat owners.

This manual has been designed to assist you in the handling of your boat with enjoyment and in total safety. It outlines the details, gear (included or shown) and apparatus of the boat and carries all information concerning its use and maintenance. Read it carefully and get accustomed to the boat before using it

If this is your first vessel or if you are changing to a type of craft with which you are not familiar, for your own comfort and safety, endeavor to acquire some experience in handling and using the vessel before taking on the command of the boat. Your dealer, your national nautical federation or your nautical club will be happy to advise you in the choice of a local boating school or a qualified instructor.

Always eager to offer top quality products, Doral International Corporation is forever improving its crafts. New materials, technological features and components are continuously tested and evaluated in order to offer you a boat with up-market improvements.

This is why the characteristics and information are not contractual and could be altered without warning and without updating liability.

Designed in compliance with the requirements of the ISO 10240 standard and delivered with enclosed NMMA and ABYC certification, this manual is concerned with generalities and can sometimes list features or accessories or deal with topics that may not be included as standard equipment with your boat ; for any query, check the listing delivered with your purchase.

Our Doral dealer network will always be available to help you discover your boat's features and will be best skilled to carry out its maintenance.

We wish you good reading and a lot of enjoyment aboard your new Doral boat.

**Keep this guidebook in a safe place and pass it on to the next owner if you sell the boat.**

**DORAL**  
INTERNATIONAL

## INDEX

ISO 10240-5.1.2

- Chapter 1     MANUAL UTILIZATION AND RECEIPT
- Chapter 2     STANDARDS, GENERALITIES AND WARRANTY
- Chapter 3     SECURITY
- Chapter 4     HULL AND DECK
- Chapter 5     LAYOUT
- Chapter 6     PLUMBING
- Chapter 7     ELECTRICAL SYSTEM
- Chapter 8     IN-BOARD MOTOR AND DIRECTION
- Chapter 9     LAUNCHING RECOMMENDATIONS
- Chapter 10    WINTER STORAGE

PERSONAL NOTES

# OWNER'S MANUAL

ISO 10240 - NMMA - ABYC

## CHAPTER 1

# MANUAL UTILIZATION AND RECEIPT

ISO 10240

**DORAL**  
INTERNATIONAL

## **MANUAL UTILIZATION AND RECEIPT**

The comprehensive literature that you have in hand complies with the European standard ISO 10240.

You will find three booklets annexed :

Doral International Booklet of warranty

A general safety booklet in accordance with NMMA-ABYC and ISO 10240 standards.

And a safety booklet against fire as well as a summary of the general security booklet.

The owner's manual will allow you to know your craft in depth and will point out each basic element that procures a safe and pleasurable use.

The set of diagrams for plumbing, electricity, deck blueprint and electrical layout will enable you to appreciate all the potential of your vessel.

A receipt sheet is enclosed in this manual. It is important to fill it out and forward it to the address indicated.

Do not hesitate to ask questions to your dealer. He possesses a great knowledge of your craft and will be happy to help you.

# OWNER'S MANUAL

ISO 10240 - NMMA - ABYC

## RECEIPT

Owners Name : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

*Proprietor of Doral 270 SC* \_\_\_\_\_

Certifies having received and read the information shown in this owner's manual delivered with the boat.

Date : \_\_\_\_\_

Signature : \_\_\_\_\_

Copy to be kept by the owner

---

## RECEIPT

Owner's Name : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

*Proprietor of Doral 270 SC* \_\_\_\_\_

Certifies having received and read the information shown in this owner's manual delivered with the boat.

Date : \_\_\_\_\_

Signature : \_\_\_\_\_

Copy to be returned to

Doral International inc  
1991, 3<sup>e</sup> Avenue,  
Grand-Mère (Québec)  
Canada, G9T 2W6

**DORAL**  
INTERNATIONAL

# OWNER'S MANUAL

ISO 10240 - NMMA - ABYC

## CHAPTER 2

# STANDARDS, GENERALITIES AND WARRANTY

ISO 10240 5.3,5.5,5.6

**DORAL**  
INTERNATIONAL

## CONSTRUCTION STANDARDS AND ATTRIBUTES

ISO 10240-5.1.3

Doral International Inc. exports boats all over the world. This is why our vessels comply with a number of standards :

- NMMA (National Marine Manufacturer Association)
- ABYC (American Boat and Yacht Council)
- ISO (International standardization Organization, TC 188 Committee)
- 94-25-EC Directive

Whether these standards are pertinent to the countries where you will use your vessel or not, they vouch for exceptional quality of construction which is recognized worldwide.

Construction components, such as motors, pumps, windshields, portholes, etc., have also been standardized to comply with these norms. Before specification, Doral controls and checks all parts ratification documents.

Construction of a Doral boat is made of poly resin and Esther vinyl, braced with CE class fiberglass. We use different patterns of weaving methods to optimize the soundness and structure of our boats.

We use «Doral core», a high performance sandwiched composite substance designed by Doral International Inc., in the construction of all 23 foot boats and up.

All Doral boats have a encapsulated wooden frame, bonded to the hull and the deck of the boat, assuring greater rigidity and strength.

### *B Category*

"Vessels designed for ocean navigation where wind conditions are not over force 8 and waves are not over 4 meters high"

### *C Category*

"Vessels designed for coastal navigation, in large coves or estuaries, on rivers or lakes, where wind conditions are not over force 6 and waves are not over 2 meters high. "

### *D Category*

"Vessels designed for navigation close to the coast, on rivers, lakes or in inlets where wind conditions are not over force 4 and waves are not over 0.5 meters high. "

The navigation category of your boat is indicated on the specification form in chapter 2. Our boats comply with the standards for these categories.

However, analysis of climatic conditions of navigation, prior to going to sea, is the responsibility of the boat captain for your comfort and safety, avoid going to sea if you reckon that your navigation level is not sufficient to meet difficult meteorological conditions.



## GENERAL SPECIFICATIONS OF THE BOAT

ISO 10240-5.2

SERIAL : DORAL 270 SC

Hull Identification Number: \_\_\_\_\_  
Motor Serial Number: \_\_\_\_\_  
Transmission Serial Number: \_\_\_\_\_  
Motor Type : \_\_\_\_\_  
Propeller Type: \_\_\_\_\_  
Transmission Type: \_\_\_\_\_

### SPECIFICATION SHEET

Overall Length	_____	8.25m (27'1")
Width	_____	2.59m (8'6")
Weight with motor 5.7 L	_____	3256kg (7164 lbs)
Fuel Tank	_____	379L (100 us gal)
Fresh Water Tank	_____	114L (30 us gal)
Used Water Tank	_____	114L (30 us gal)
Hot Water Tank	_____	23L (6 us gal)
Grey Water Tank (opt.)	_____	114L (30 us gal)
Headroom	_____	1.83m (6'0")
Maximum Weight Capacity	_____	1336kg (2939 lbs)
Accommodation Capacity	_____	8 persons
Layout Category	_____	B

# OWNER'S MANUAL

ISO 10240 - NMMA - ABYC

## GENERALITIES AND WARRANTY

ISO 10240-5.7

### Doral Service and Warranty

Doral International Inc. offers you a limited lifetime warranty on the boat mono-hull. You will find, included with this guidebook as an annex, a warranty manual where the warranty particulars are explained comprehensively.

In some countries (France, for instance), the dealer offers a warranty especially adapted to the needs and the laws of the country. In this case, you will find an explanatory booklet as an annex.

Through its network of dealers, Doral guarantees repair and maintenance service for its products. Your dealer is in the best position to see to your needs, so do not hesitate to make use of his assistance.

Your dealer :

**DORAL**  
INTERNATIONAL

**OWNER'S MANUAL**  
ISO 10240 - NMMA - ABYC

**GENERALITIES AND WARRANTY**

ISO 10240-5.2

**OWNER'S MANUAL**  
ISO 10240 - NMMA - ABYC

**GENERALITIES AND WARRANTY**

ISO 10240-5.2

# OWNER'S MANUAL

ISO 10240 - NMMA - ABYC

## CHAPTER 3

# SECURITY

ISO 10240 5.3,5.5,5.6

## SAFETY EQUIPMENT

### Warning

The mandatory inventory of safety equipment conforms to the category ratification. Go through a listing of this equipment before each departure. Your Doral 270 SC is ratified in the B category. (CE only)

### SURVIVAL RAFT

The survival raft is compulsory for category 4° in France and must stay available permanently. The launching maneuver is indicated on the boat. It is important to read it before departure.

### FIRE FIGHTING

Fire extinguishers must be distributed at easily attainable spots and far from a potential fire source.

#### *It is the owner's or board master's responsibility :*

- To have the extinguishers checked according to the extinguisher instructions.
- To replace faulty or expired extinguishers with extinguishers of equal or greater capacity.
- To acquaint the crew with the location and operation of the extinguishers and the location of emergency fire escapes.
- To make sure of the extinguisher accessibility when the vessel is in use.

#### **NEVER TO BE DONE :**

- Obstruct of passageways to emergency fire escapes.
- Obstruct safety controls (fuel valves, gas valves, electric switch)
- Obstruct extinguisher located in *lateral storage*.
- Leave the boat unattended with a burning hot plate or heater
- Use gas lamps on the vessel
- Alter the vessels systems (electrical, gas or fuel)
- Fill up a fuel tank or substitute a gas bottle with the motor running or near a burning hot plate or heater
- Smoke while handling fuel, gas or while simply opening the motor hold

### WARNINGS ABOUT THE DANGERS OF CARBON MONOXIDE

Doral International Inc. boats are provided with CO (Carbon Monoxide) detectors, CO is a highly dangerous gas. It is your responsibility to take necessary preventive measures to avoid all poisoning hazard while using the motor and the generator. A certain amount of care must be taken. Ask your dealer for information.

Keep bilge clean and check for the presence of fuel and gas vapor at regular intervals. Use only compatible spare parts for extinguishers. They must include the same specifications and fire resistance or meet the technical equivalent. Avoid hanging curtains floating freely near hot plates or other naked flame apparatus. Take care with the location of electric lighting devices close to the ceiling. Never cover them.

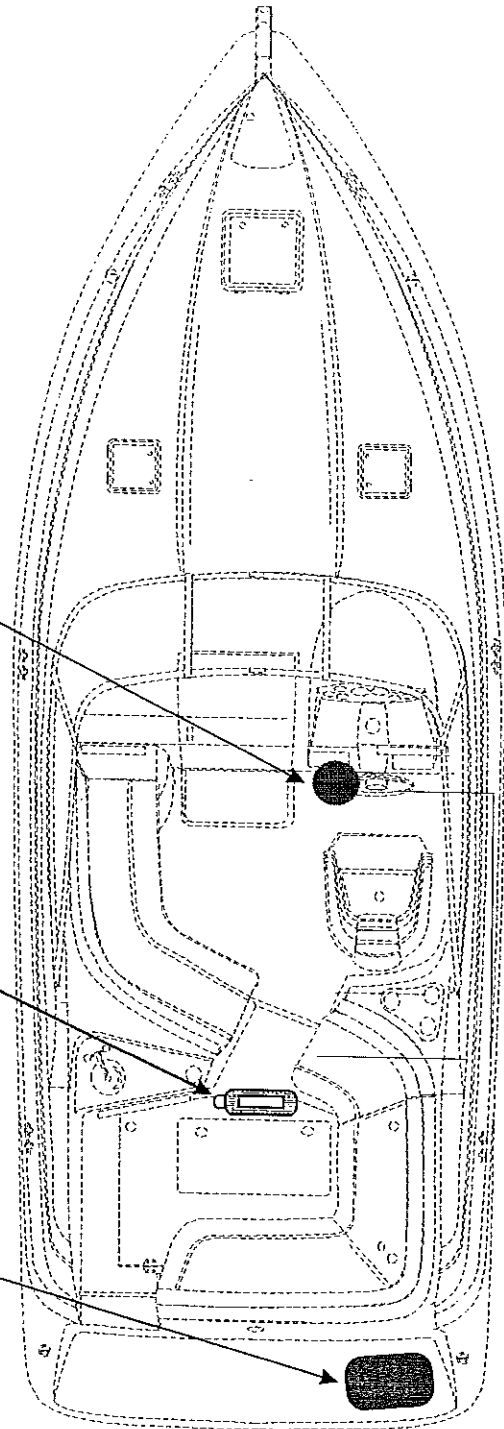
# FIRE FIGHTING SYSTEM

270 SC

Fire alarm on instrument panel

Automatic extinguisher

Survival raft



**OWNER'S MANUAL**  
ISO 10240 - NMMA - ABYC

**CHAPTER 4**

**HULL AND DECK**

ISO 10240 5.3,5.4,5.5



## CONSTRUCTION

Doral boats are constructed of laminated fiberglass, poly resin and Esther vinyl.

### *Advice/Maintenance :*

Your boat's material and equipment have been chosen for their quality level and their performance, but also for ease of maintenance. A minimum of care must be taken to protect your boat against external damaging effects (salt, sun, electrolysis...).

Hull and deck must be regularly washed with non aggressive, everyday maintenance products and fresh water.

Treat the hull yearly with tinless antifouling to avoid frequent and tedious careening. However it is advisable to give an *epoxidic* application first (ex : 3 coats of tar *epoxy*. A *primary epoxy* can be used in this case). We remind you that any sanding or priming before antifouling stresses your gelcoat and affects its reliability, so we suggest a very light sanding.

*Muriatic acid* can be used against stubborn stains at waterline level, but this must be fully rinsed after being left for around 10 minutes. Polish can rejuvenate the shine of your boat. You can consult your dealer for any recurring and sporadic problem.

### CAUTION

*The use of high pressure cleaner is highly unsuitable. Hot water and steam are to be avoided.*

There is a number of products on the market designed for specific uses. Here is a list of typical products sold by specialized retailers.

Select non aggressive and bio-degradable products preferably. We love the sea; lets strive to protect it...

Here are the selected products :

1. Grease dissolving shampoo (all purpose cleaner : hull, deck...)
2. Protective hard liquid wax which is a polyester polish (to be used on all support, except as anti-slippage on the deck).
3. Product for rubber (rubrail seal)
4. Special aluminum cleaner
5. Polyester polish (for the removing of small scratches on the gelcoat)
6. Tar stripper to remove grease and hydrocarbon stains.
7. Phosphating rust remover (removes brown stains on stainless steel and resulting streaks on hulls and decks).

## INSTRUCTIONS FOR GELCOAT PREPARATION

### *Precautionary Measures*

Two important factors are needed for the success of your labors : dry weather and temperatures between 60° F and 80° F

### *Proportions*

Most of the products on the market are accelerated ; you just have to add the catalyst. The usual proportion is 2%. The gel then takes ½ hour to set and around 10 hours to harden.

### *Implementation :*

To fill up a hole or a scratch, thoroughly clean with acetone and start by sanding.

Prepare the necessary amount of gelcoat preferably on a glass plate. Apply the product with a spatula or a small pointed object.

Apply a thick coat in anticipation of sanding with abrasive and water and of polishing (in order to get a shiny surface). To even out a small touch up on a polished surface, stick a piece of adhesive paper on fresh gelcoat, and remove after hardening.

### *Storage :*

For efficient preservation, components must be stored in a cool location away from moisture and light.

Polyesters are inflammable so usual precautions must be taken.

### **Warning**

**Catalyst is a dangerous product. Keep it out of reach of children and avoid contact with skin and mucous membranes. In case of contact with skin, wash with soapy water and rinse thoroughly. Wear protective equipment (safety glasses, plastic gloves...) when using it.**

### **Cleaning of Tools :**

Use acetone for all cleaning of tools.

### **Precaution before any repair job.**

Contact your dealer to get the best advice and all suitable spare parts and materials for repairs that you can do yourself.

It is better that professionals execute major repairs on hull and motors. Your dealer is skilled in these repairs or can commission competent people to carry them out.

### **Danger**

Contact your dealer to find out what you may do and especially what you may not do. You could, otherwise, jeopardize your safety and void your warranty.

## MAINTENANCE OF THE DECK

Make minimal use of cleaning agents. Don't throw them away in water. Dry dock your boat for cleaning, if possible.

Don't use solvents or abrasive detergents.

Lightly brush the deck with a grease dissolving shampoo and with fresh water.

### **Plexiglas :**

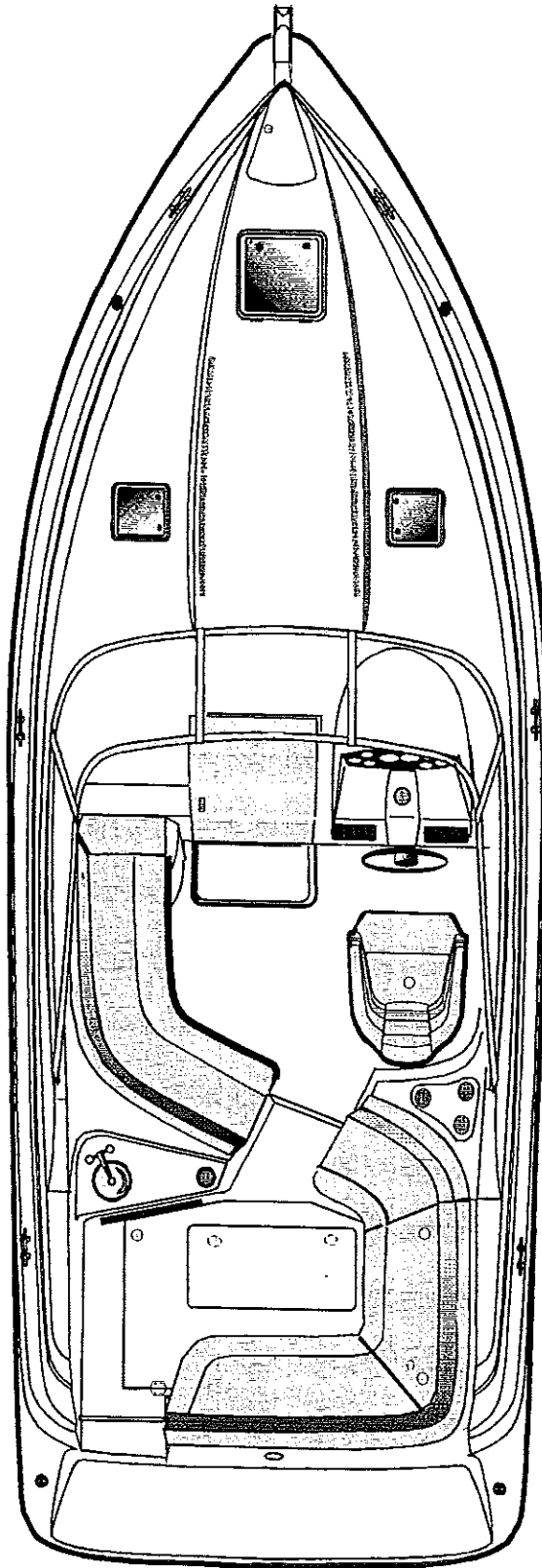
Rinse with fresh water.

Shine with a soft cloth soaked in paraffin oil

In case of scratching, use an appropriate polish, and follow the dealer's instruction sheet (don't use solvent, alcohol or acetone).

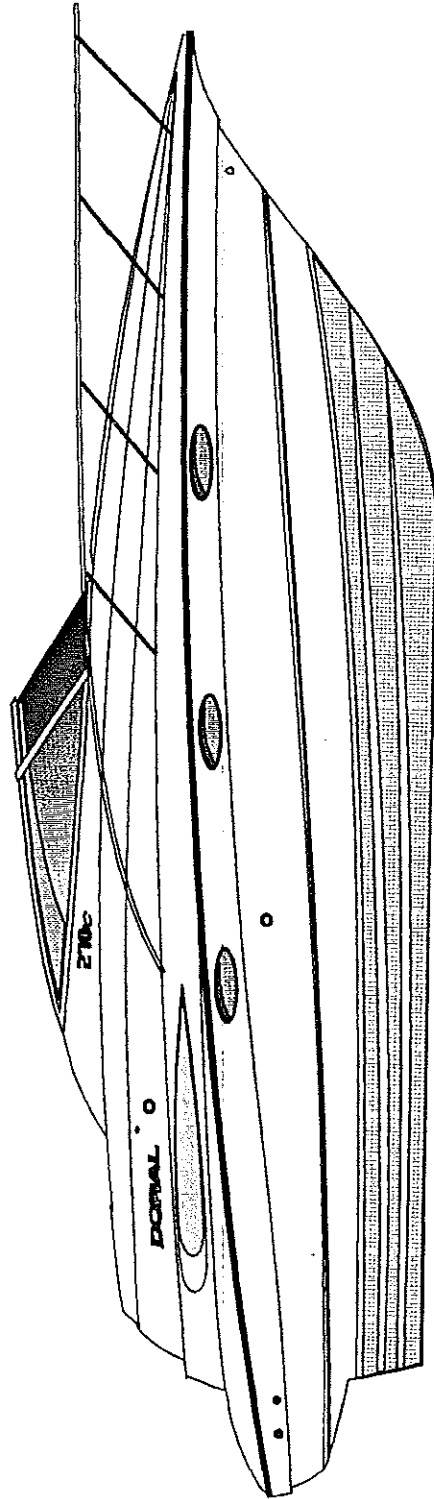
# DECK PLAN LAYOUT

270 SC



**DORAL**  
INTERNATIONAL

SIDE VIEW LAYOUT



270 SC

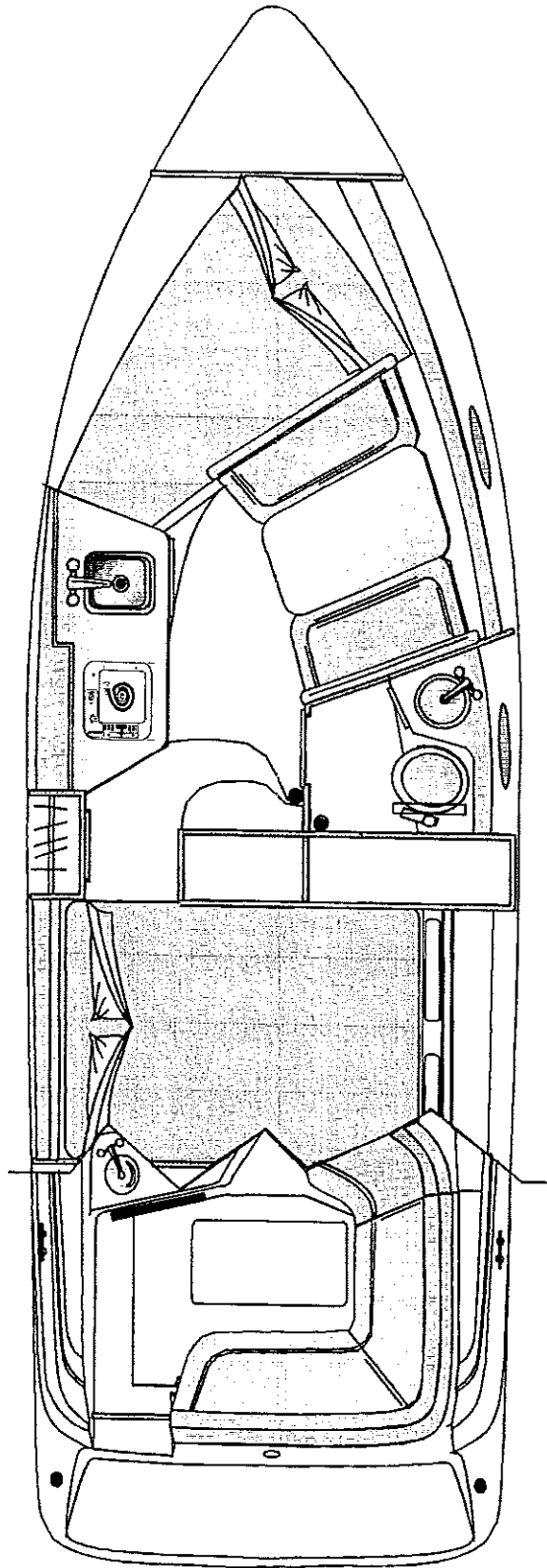
**OWNER'S MANUAL**  
ISO 10240 - NMMA - ABYC

**CHAPTER 5**

**LAYOUT**

ISO 10240

LAYOUT



270 SC

**DORAL**  
INTERNATIONAL

**OWNER'S MANUAL**

ISO 10240 - NMMA - ABYC

**CHAPTER 6**

**PLUMBING**

ISO 10240



## FILLING UP THE WATER TANK

To prevent any handling error, avoid filling up the water tank and the fuel tank simultaneously.

- When filling up, avoid handling polluting products near drain holes.
- When opening and closing caps, use the proper tool.
- When filling up, check the state of drain hole caps seals.
- Tanks are equipped with overflow outlets with vents.
- Never push in the water filling hose too far in the circuit to avoid over-pressure.

### Maintenance Advice :

It is possible to sterilize water tanks with a *clonazone* tablet (sold in a drugstore)  
In case of prolonged inactivity, purify tanks and pipes with acetic acid or white vinegar.  
For winter storage, please consult Chapter 10.

### Fresh Water Circuit

#### Precaution

Never operate the fresh water circuit when tank is empty since damage could occur to the electrical system.  
Check the state of filters regularly.

### Water Drainage Circuit

Various systems of used water drainage are used, according to countries and current legislation.  
If the boat is equipped with holding tanks (gray water and waste), empty tanks systematically after a trip.  
Be respectful of current maritime laws for discharging at sea if the boat is equipped with a macerator.  
When using the macerator, make sure the valve is in the open position. Do not forget to close it after use.  
For boats without holding tanks, used water and toilets drainage is done by *Through Hulls* equipped with quarter turn valves (when the valve handle is perpendicular to the pipe, it is closed, and when it is in line with the pipe axis, the valve is open).

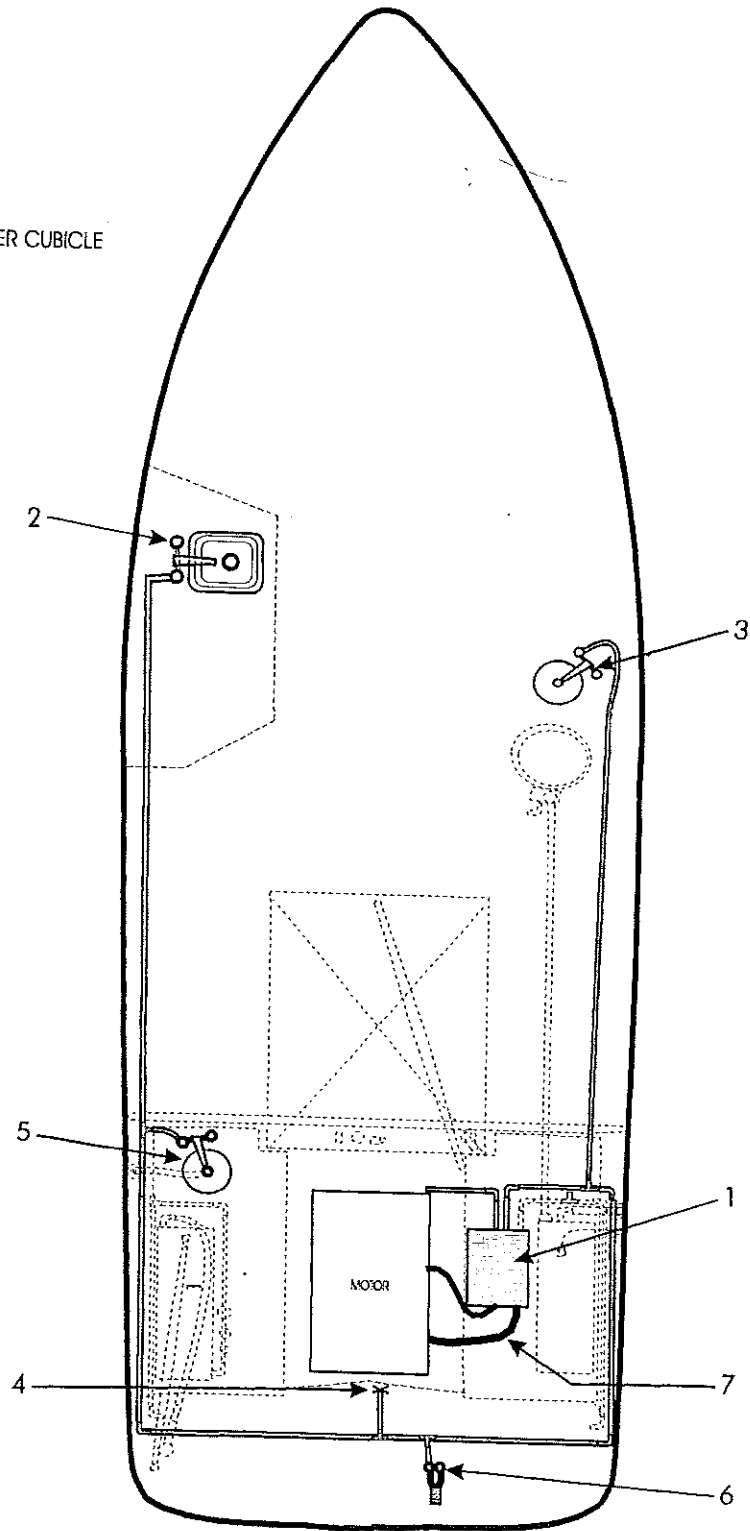
### Recommendations/Maintenance :

Regularly check the efficient operation and watertightness of valves and *Through Hulls*. Close valves when the water circuit is not in use. Control the tightness of the hoses clips and couplings and the state of the seals. Assure the perfect cleanliness of the strainers and the hold.  
If the boat is docked for a long period of time, remember to close the valves.

# PLUMBING HOT WATER

270 SC

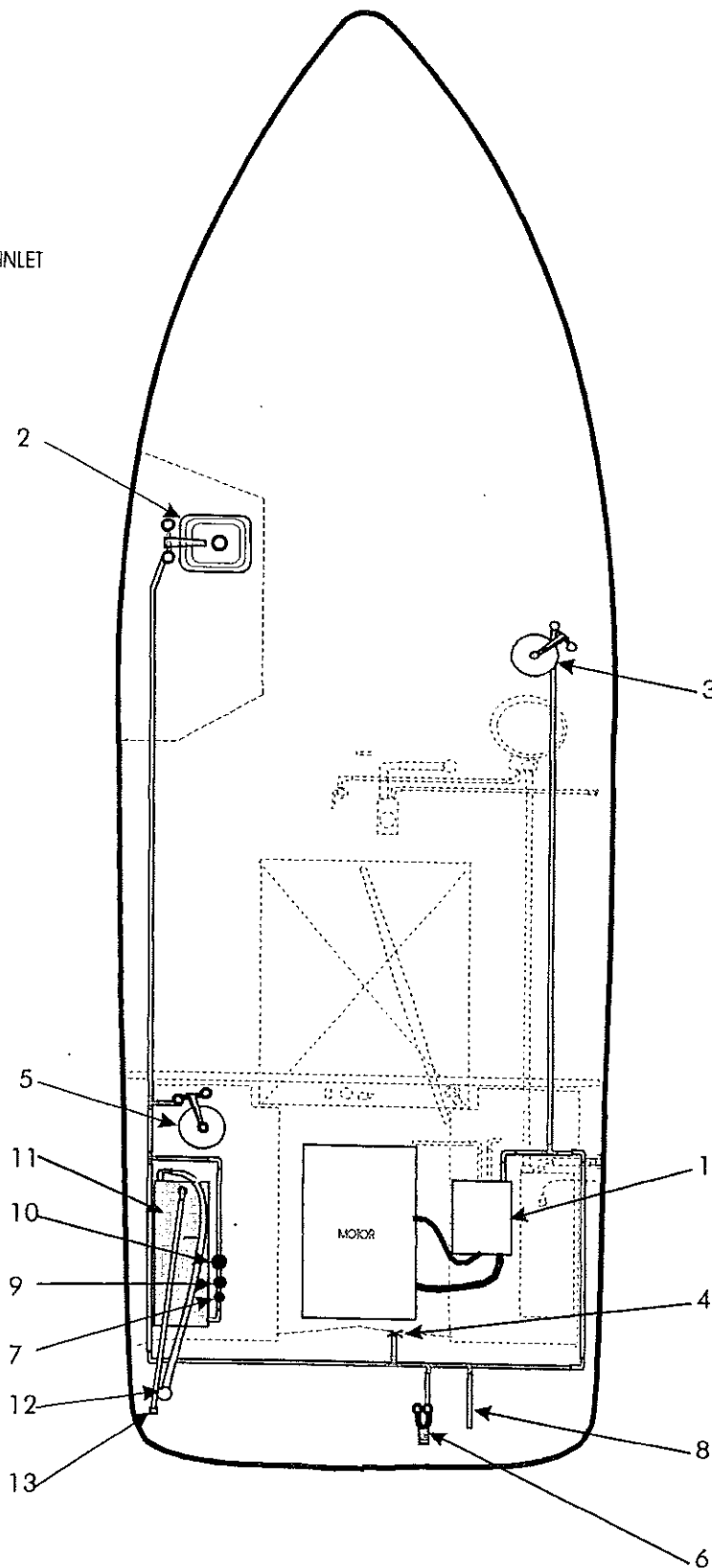
- 1- HOT WATER TANK
- 2- KITCHEN SINK
- 3- SHOWER FAUCET IN SHOWER CUBICLE
- 4- DRAIN VALVE
- 5- COCKPIT SINK
- 6- DECK SHOWER
- 7- MOTOR HEATED HOT WATER  
CLOSED CIRCUIT



# PLUMBING COLD WATER

270 SC

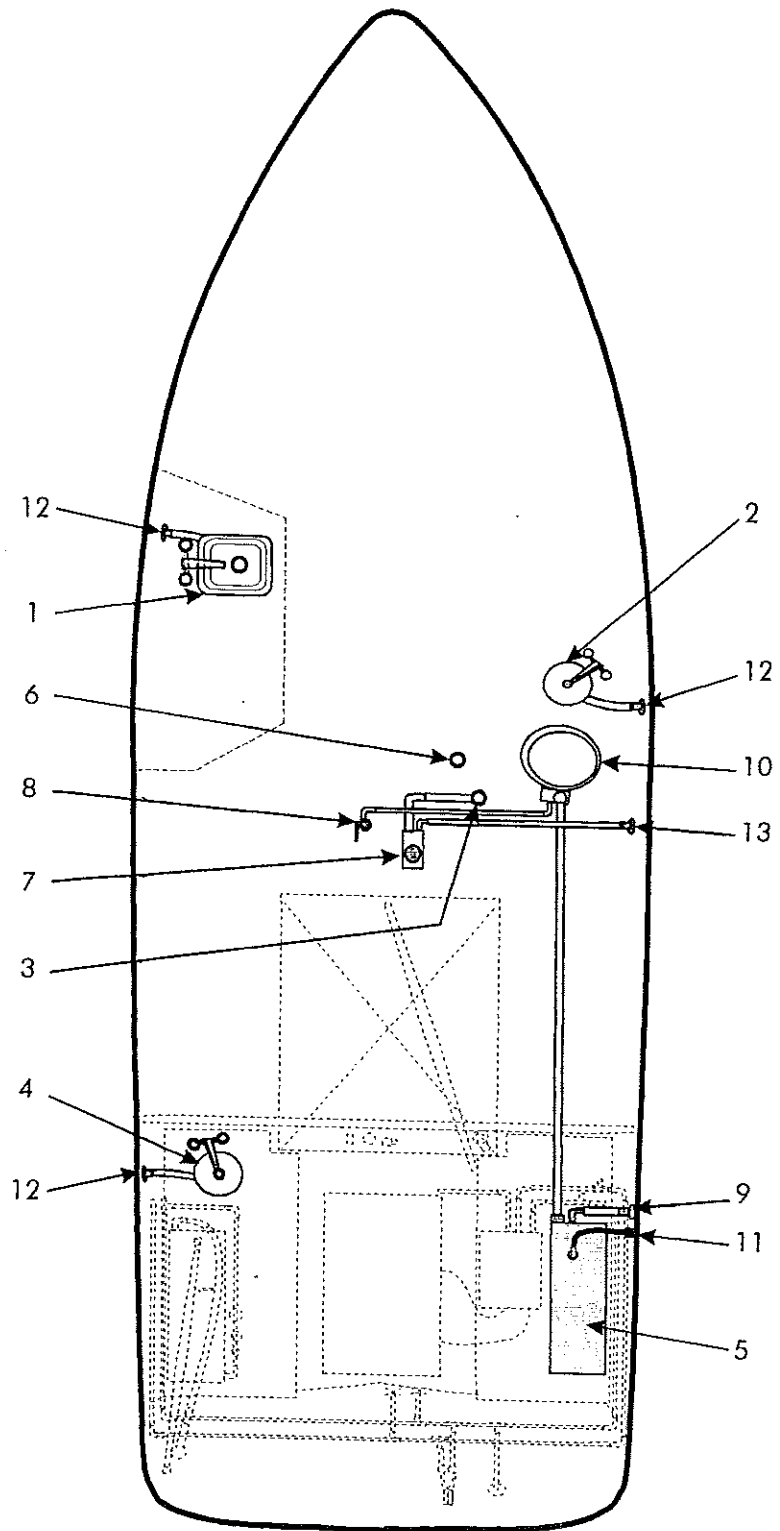
- 1- HOT WATER TANK
- 2- KITCHEN SINK
- 3- SHOWER CUBICLE SINK
- 4- DRAIN VALVE
- 5- COCKPIT SINK
- 6- DECK SHOWER
- 7- FILTER
- 8- DRINKING WATER SUPPLY DOCK INLET
- 9- WATER PUMP
- 10- AIR ACCUMULATOR TANK
- 11- FRESH WATER TANK
- 12- WATER TANK INLET
- 13- WATER TANK VENT



# PLUMBING DRAINS

270 SC

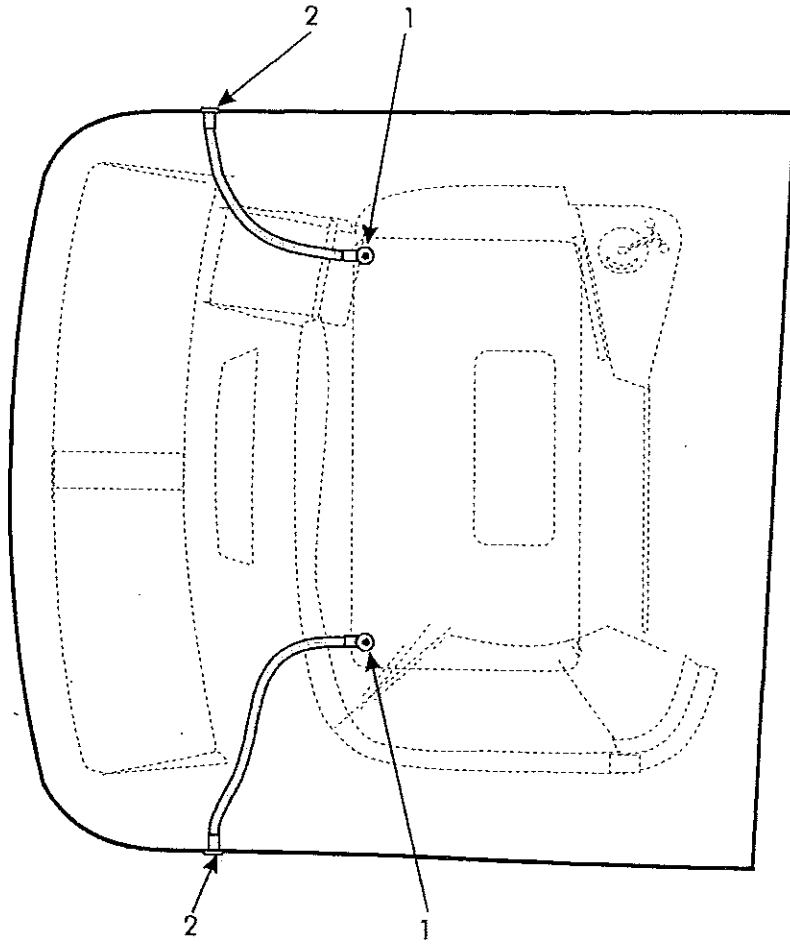
- 1- KITCHEN SINK
- 2- SHOWER CUBICLE SINK
- 3- SHOWER DRAIN COCK
- 4- COCKPIT SINK
- 5- USED WATER TANK
- 6- STATEROOM DRAIN
- 7- SHOWER PUMP
- 8- SEA WATER SUCTION FOR TOILET
- 9- USED WATER TANK OUTLET
- 10- TOILET
- 11- USED WATER TANK VENT
- 12- THROUGH HULL
- 13- SHOWER PUMP DRAIN



NOTE: WHEN THE GREY WATER  
OPTION IS NOT INCLUDED  
WITH THE BOAT, ALL SINKS  
WILL DRAIN INTO THE SEA  
VIA A THROUGH HULL.

# PLUMBING COCKPIT DRAINS

270 SC

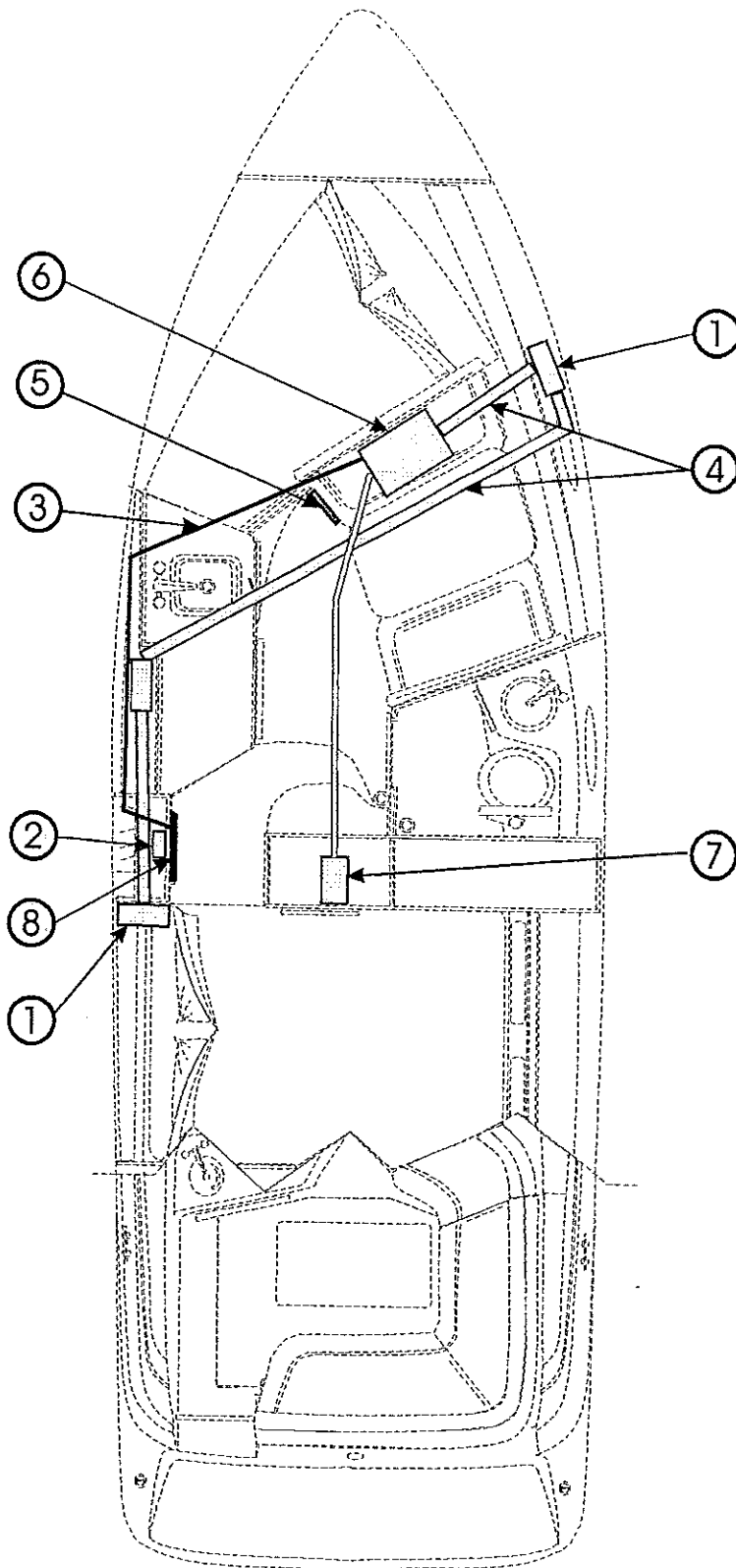


1- MOTOR PANEL DRAINS

2- THROUGH HULL

# AIR CONDITIONING- VENTILATION

270 SC

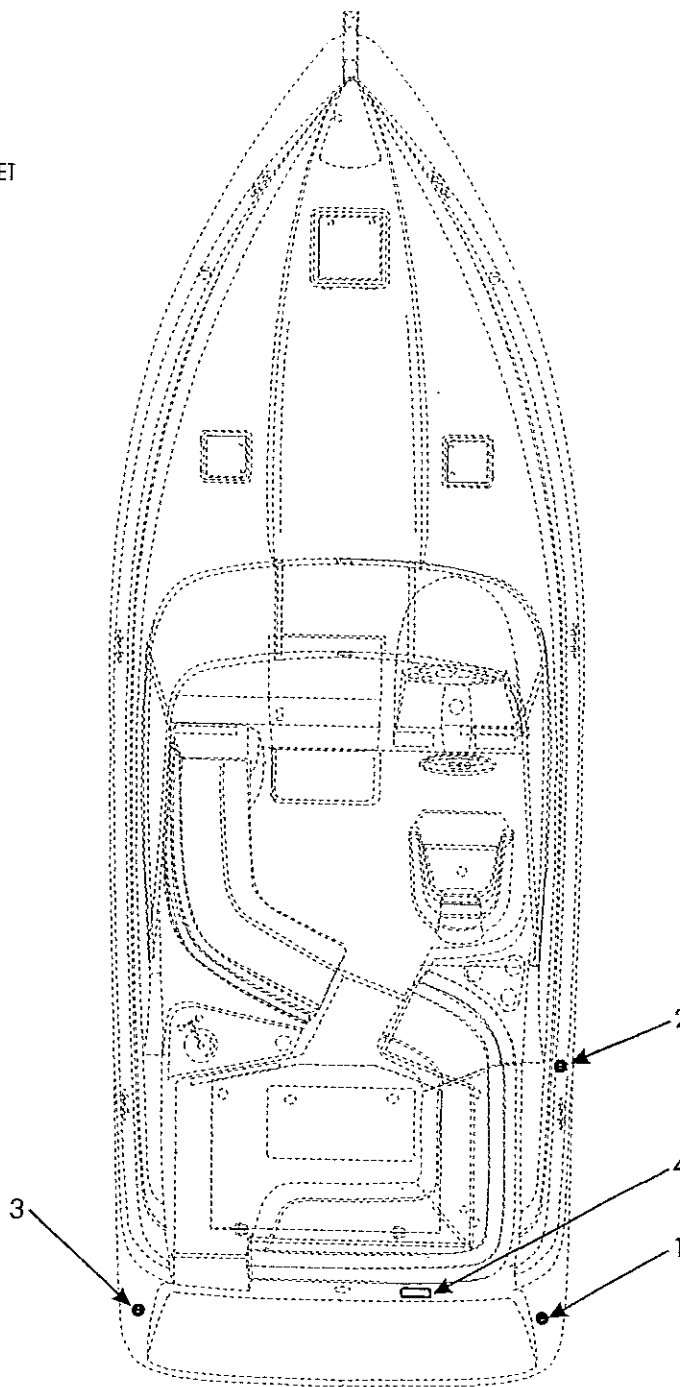


- 1- DINING ROOM OUTLET
- 2- ELECTRIC BOX
- 3- ELECTRIC WIRING
- 4- AIR CONDITIONING INSULATION PIPE
- 5- AIR INLET
- 6- AIR CONDITIONING
- 7- SEA WATER INLET AND SHOWER PUMP
- 8- ELECTRIC PANEL

# TANK CAP LOCATION

270 SC

- 1- FUEL TANK CAP
- 2- USED WATER TANK CAP
- 3- FRESH WATER TANK CAP
- 4- DRINKING WATER SUPPLY DOCK INLET



## FUEL TANK

Fill up the fuel tank using inlet. Rinse the inlet opening with sea water before taking off the cap, thus protecting the deck against possible fuel spills. In case of spills rinse the deck thoroughly (after putting the inlet cap back on).

**Danger**

Stop motor and extinguish cigarettes while fueling.

Do not wait until fuel reserves are nearly out to refuel. There could be a risk of tripping the fuel breaker.

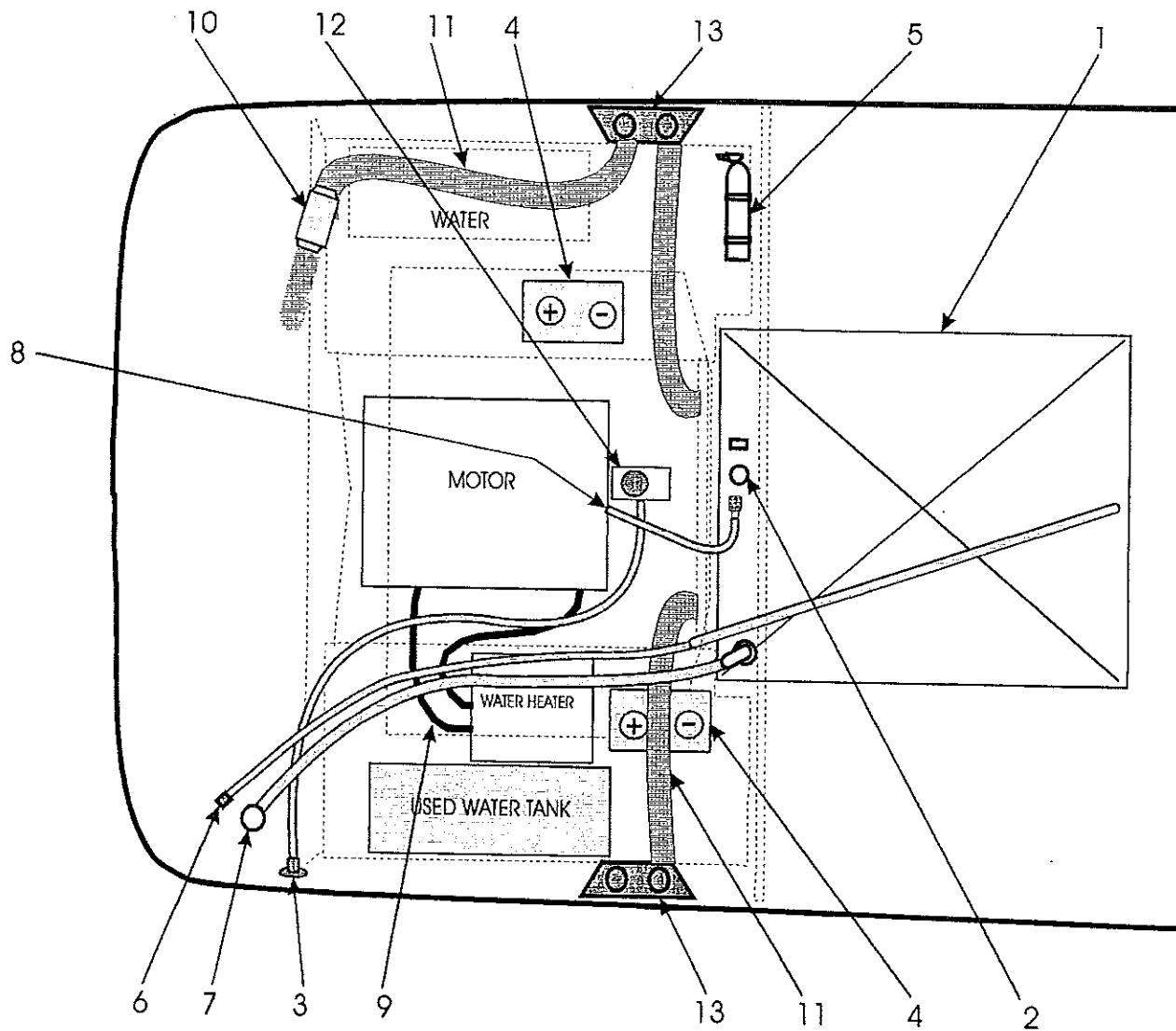
**Recommendation and Maintenance :**

- Check the state of the toric coupling periodically to avoid water seepage.
- Keep the tank as full as possible to avoid condensation. *Every five years*, remove slit deposits from tank.



# FUEL SYSTEM & VENTILATION

270 SC



- |                           |                                   |
|---------------------------|-----------------------------------|
| 1- FUEL TANK              | 7- FUEL TANK INLET                |
| 2- FUEL LEVEL GAUGE       | 8- MOTOR FUEL SUPPLY PIPE         |
| 3- THROUGH HULL           | 9- MOTOR HEATED HOT WATER CIRCUIT |
| 4- BATTERY                | 10- BILGE BLOWER                  |
| 5- EXTINGUISHER HALON JET | 11- VENTILATION PIPE              |
| 6- FUEL TANK VENT         | 12- BILGE PUMP                    |
|                           | 13- AIR INLET                     |

FOOTNOTE : DOUBLE STAINLESS STEEL FLANGES ARE FITTED TO ALL FUEL SYSTEM CONDUITS, FOR MORE INFORMATION , CONSULT THE MOTOR FUEL SUPPLY CIRCUIT DIAGRAMS.

**DORAL**  
INTERNATIONAL

**OWNER'S MANUAL**  
ISO 10240 - NMMA - ABYC

**CHAPTER 7**

**ELECTRICAL SYSTEM**

ISO 10240

# OWNER'S MANUAL

ISO 10240 - NMMA - ABYC

## ELECTRICAL SYSTEM OPERATION

If an appliance is without functioning, check:

- General supply (battery, battery breaker)
- Switches and fuses in the line
- The concerned electrical appliance.

### Precaution

Shut the breaker off when boat is unattended

### BATTERIES

Batteries are located in the motor hold.

Their nominal capacities are calculated according to motor selection.

Batteries are charged with an alternator coupled to the motor or with a battery charger plugged to ground supply (and also through a power generator in some units).

### Precaution

It is essential to maintain sufficient charge in the batteries to ensure a normal life expectancy.  
Never discharge a battery beyond 70% of its nominal capacity.

### RECOMMENDATIONS/MAINTENANCE:

Keep batteries clean and dry to avoid premature wear.

Check electrolyte level periodically and add distilled water, if needed.

Have the acidity degree of the battery checked if unused for a long time.

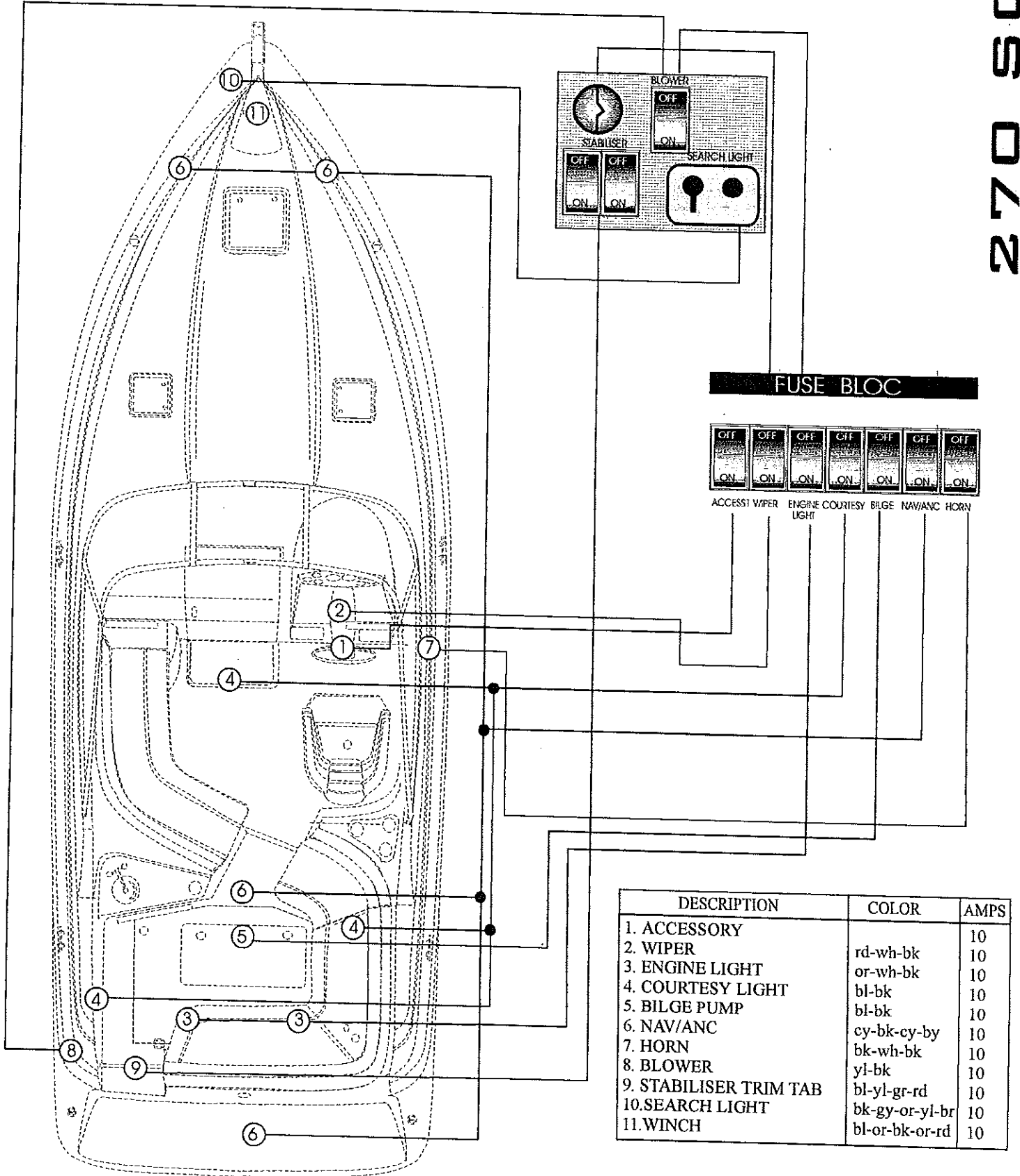
Tighten and maintain earth terminals, lubricating regularly with Vaseline.

### OPTIONS/ELECTRONICS:

It is advised to contact a specialist for all electronic installation work on board your boat. There are electrical circuits to supply your electronic accessories and it is important to check the power and the security systems according to new appliances. The electrical circuit of your motor boat is vital for safety on board; it is also fairly complex.

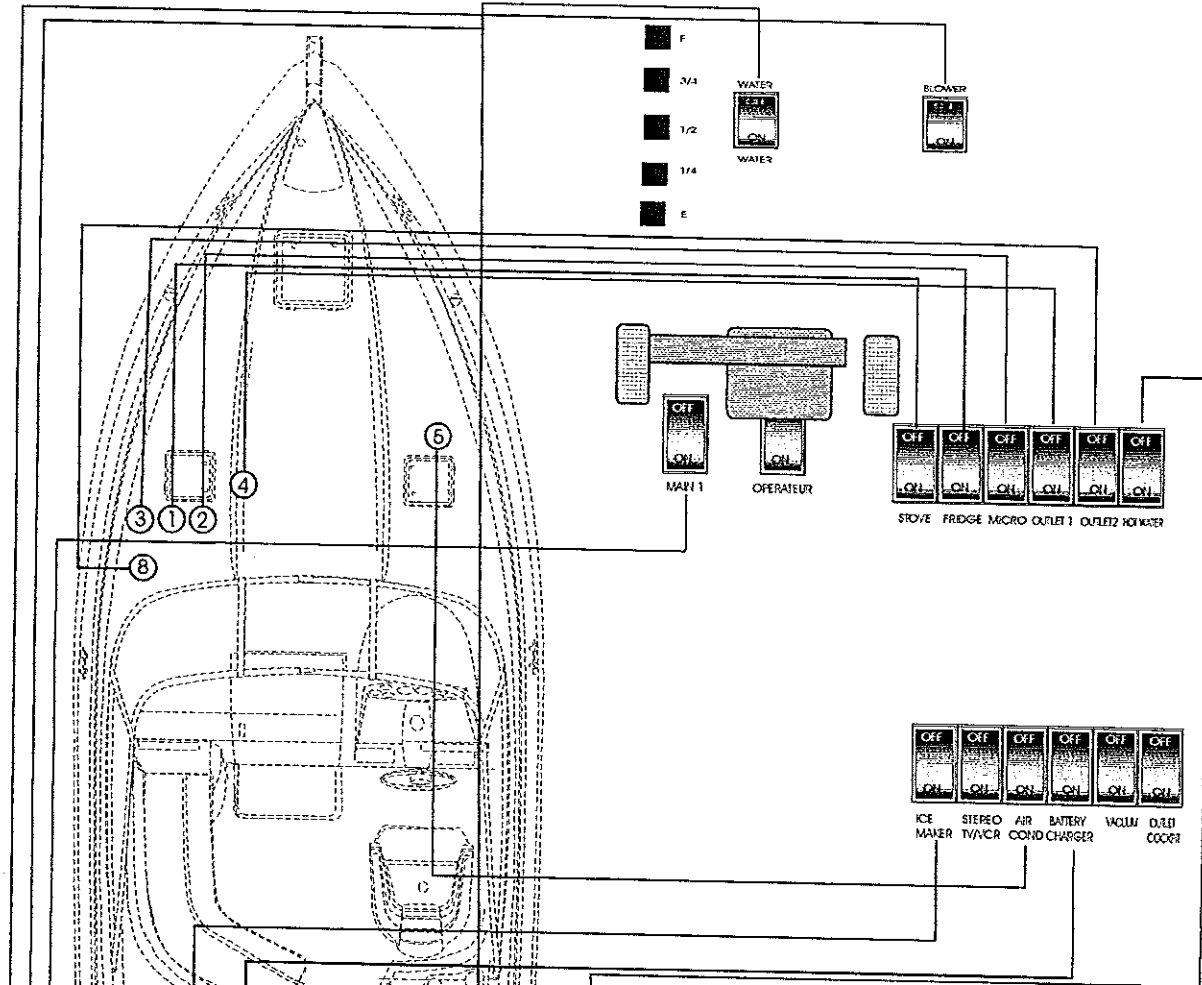
# ELECTRICAL SYSTEM

270 SC



# ELECTRICAL SYSTEM

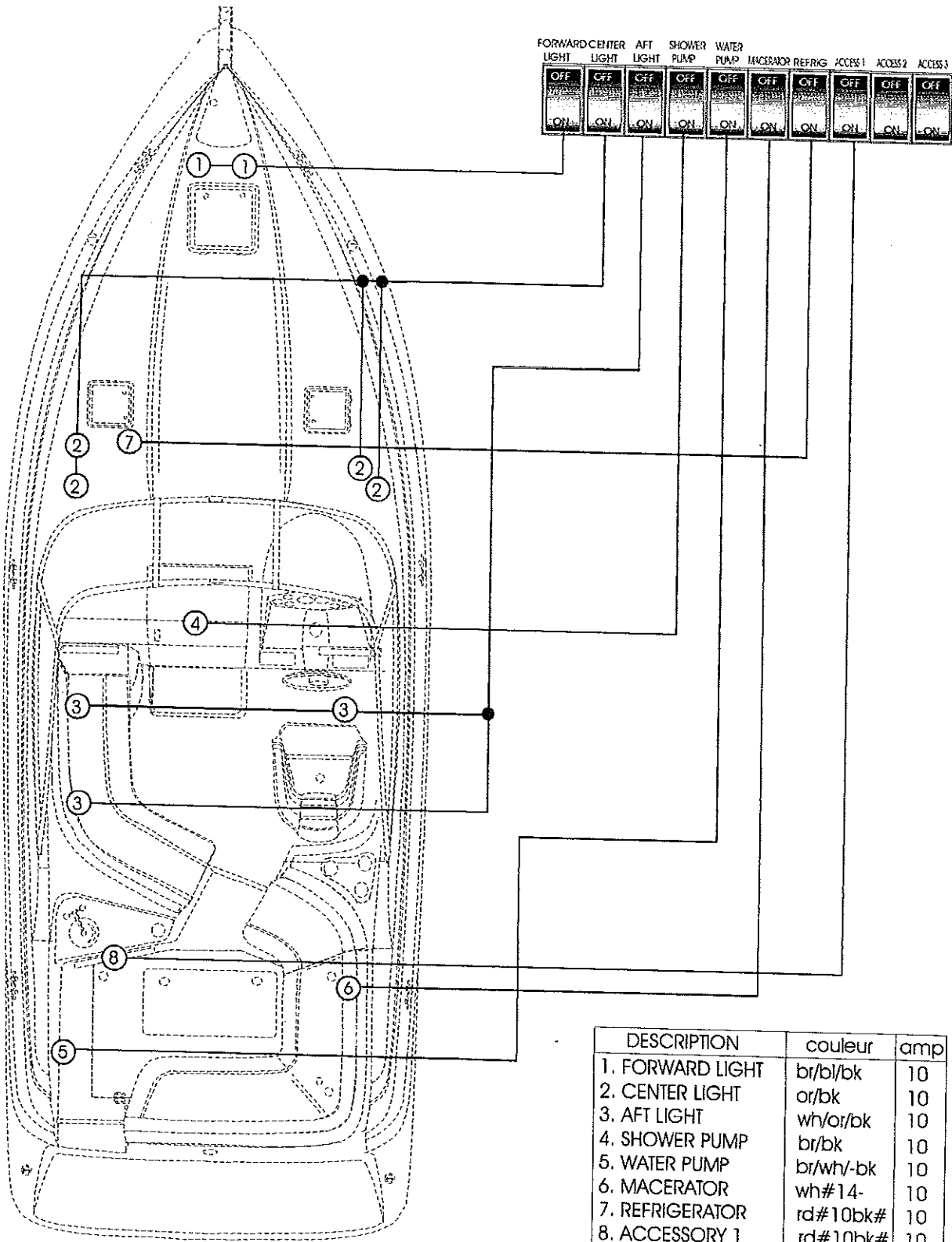
27050



DESCRIPTION	COLOR	AMPS	EUROP
1. STOVE PLATE			
2. REFRIGERATOR	12/3	20	15
3. MICROWAVE	14/3	15	10
4. OUTLET 110 VOLTS	14/3	15	10
5. AIR CONDITIONING	14/3	15	10
6. WATER HEATER	14/3	15	10
7. REFRIGERATOR	10/3	15	10
8. ELECTRIC PANEL	14/3	15	10
9. BATTERY CHARGER			
10. FRESH WATER TANK			
11. USED WATER TANK			
12. SHORE POWER INLET			
13. BLOWER			

# ELECTRICAL SYSTEM

270 SC

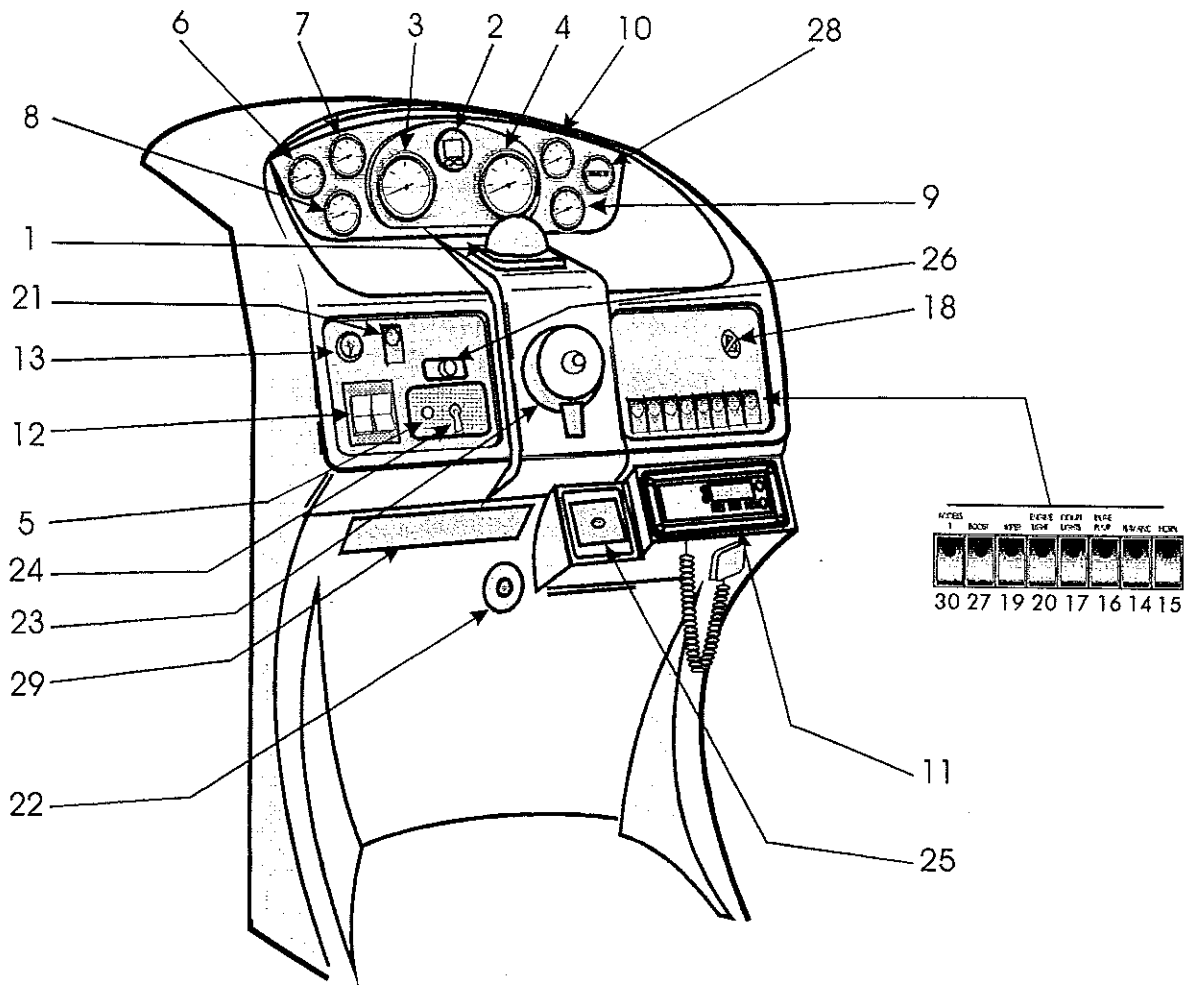


FORWARD LIGHT	CENTER LIGHT	AFT LIGHT	SHOWER PUMP	WATER PUMP	MACERATOR	REFRIG	ACCESS 1	ACCESS 2	ACCESS 3
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

DESCRIPTION	couleur	amp
1. FORWARD LIGHT	br/bl/bk	10
2. CENTER LIGHT	or/bk	10
3. AFT LIGHT	wh/or/bk	10
4. SHOWER PUMP	br/bk	10
5. WATER PUMP	br/wh/-bk	10
6. MACERATOR	wh#14-	10
7. REFRIGERATOR	rd#10bk#	10
8. ACCESSORY 1	rd#10bk#	10
9. ACCESSORY 2		10
10. ACCESSORY 3		10

# DASHBOARD DIAGRAM

270 SC



- |    |                         |    |                         |    |                             |
|----|-------------------------|----|-------------------------|----|-----------------------------|
| 1  | COMPASS                 | 11 | VHF RADIO               | 21 | BLOWER SWITCH               |
| 2  | DIGITAL DEPTH SOUNDER   | 12 | STABILISER TRIM TAB     | 22 | SEA FIRE ALARM              |
| 3  | SPEEDOMETER             | 13 | IGNITION SWITCH         | 23 | ADJUSTABLE STEERING WHEEL   |
| 4  | TACHOMETER              | 14 | NAVIGATION LIGHT SWITCH | 24 | SEARCH LIGHT REMOTE CONTROL |
| 5  | SEARCH LIGHT SWITCH     | 15 | HORN SWITCH             | 25 | ANCHOR WINCH SWITCH         |
| 6  | VOLTMETER               | 16 | BILGE PUMP SWITCH       | 26 | 12 VOLTS OUTLET             |
| 7  | FUEL GAUGE              | 17 | COURTESY LIGHT SWITCH   | 27 | PARALLEL BATTERY SWITCH     |
| 8  | OIL PRESSURE GAUGE      | 18 | RADIO REMOTE CONTROL    | 28 | HOURMETER                   |
| 9  | WATER TEMPERATURE GAUGE | 19 | WIPER SWITCH            | 29 | BREAKER PANEL               |
| 10 | TRIM GAUGE              | 20 | ENGINE LIGHT SWITCH     | 30 | ACCESSORY SWITCH            |

# OWNER'S MANUAL

ISO 10240 - NMMA - ABYC

## CHAPTER 8

# IN-BOARD MOTOR AND DIRECTION

ISO 10240

**DORAL**  
INTERNATIONAL



## **IN-BOARD MOTOR AND DIRECTION**

We refer you to the motor technical specifications supplied with the boat. It is important to read them carefully. You will find detailed explanation on the working of the motor and all various operations to put it to good use.

Make sure you have enough fuel before going to sea.  
Be careful of oil and fuel spills; check gas exhaust color.

### **NAVIGATION:**

Avoid annoying other users with noise and overtaking ; respect speed limits.

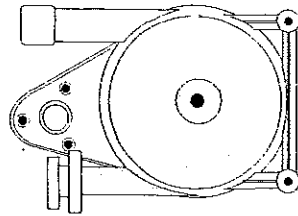
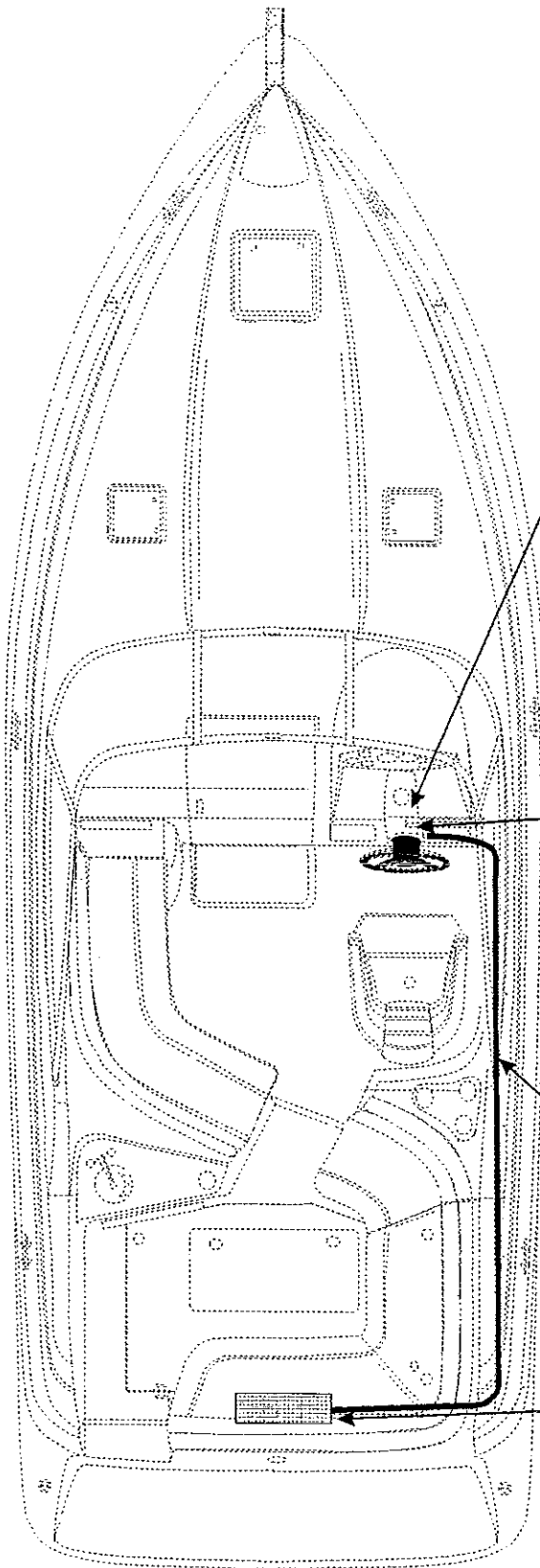
### **VISIBILITY FROM THE COCKPIT:**

International rules on boarding at sea (COLREG) and sea course regulations permanently dictate close observation and priority observance. Make sure that no other vessel is in your way.

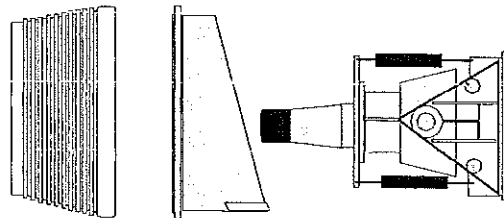
- Visibility from the cockpit can be blocked in the following conditions:
- Motor foot inclination and planing angle
- Transit from displacement to planing mode
- Loading and load distribution
- Sea condition, rain, spray, fog and darkness
- Lights inside the boat
- People or removable equipment located in the driver's field of vision.

# STEERING SYSTEM

270 SC



Steering cable transmission system



Adjustable steering wheel system

Steering cable passageway

Motor steering system  
For more information, refer to motor's handbook

# OWNER'S MANUAL

ISO 10240 - NMMA - ABYC

## CHAPTER 9

# LAUNCHING RECOMMENDATIONS

ISO 10240

**DORAL**  
INTERNATIONAL

## LAUNCHING RECOMMENDATIONS

The first launching of your Doral Boat requires great competence and a lot of care since future efficient operation of your boat's equipment is dependent on the quality of the numerous necessary operations for this commissioning.

This why the first launching as well as the first trials of various equipment must be done by your Doral dealer so that you can benefit from your warranty if some of the material becomes faulty.

Should you have to maneuver the launching yourself, the following precautions must be taken afterwards :

### BEFORE LAUNCHING:

- Lift the pitot valve
- Check the cleanliness of the water suction strainer
- Check the motor (refer to the motor maintenance handbook)
- Apply a paste to all optional accessories; this is essential to insure their watertightness
- Don't forget to screw the hull drain plug.

Each country has its different launching methods and locations, so several launching method can be used.

*For countries where trailers equipped with slippers are allowed:*

- Check the transportation vehicle power, the angle of the slope and the submerged downhill bottom.
- Don't forget to lower motor drive to minimum height before reversing.
- Don't forget to withdraw the various hawsers used to hold the boat for transportation.

*For operations with the help a crane:*

- Set up hawsers as well as fenders at the front and back.
- At the time of handling, check that the straps do not touch an instrument (sounder, speed indicator...).
- Operate smoothly and direct the boat's movements with hawsers.

While on this subject, it could be useful to locate straps position for further launching (most vessels are already provided with self-sticking markers).

The crane's hook will be already fitted with a traveling gantry or an expander system with two straps. These must never be fixed directly to the hook since this would cause abnormal compression strain to the hull.

### WARNING

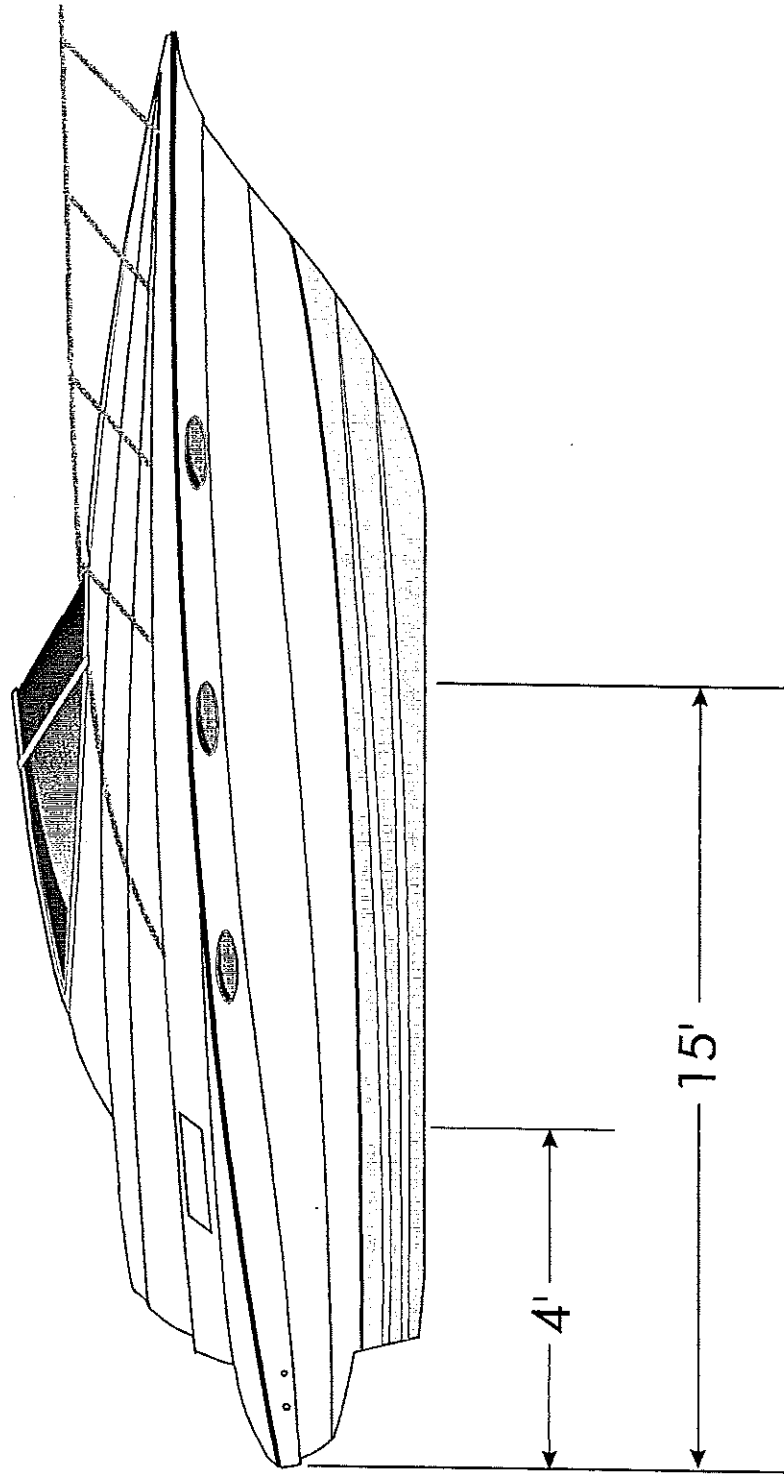
**Do not stay on board or under the boat through the operation.**

For launching with the help of a travel lift:  
Follow the boat control rules mentioned above.

### AFTER LAUNCHING:

- Check the watertightness of standard and optional instruments.
- Open valves and check for watertightness.
- Before starting the motor, refer to the manufacturer's recommendations.

STRAPS LOCATION



270 SC

## MOORING

### RECOMMENDATIONS/MAINTENANCE

For the mooring manoeuver, the boat must be equipped with a large supply of rigging, environmentally adapted and of sufficient dimensions.

- Evaluate tide and wind for the manoeuver.
- Give the boat maximum protection with good sized fenders
- Always keep hawsers clear and well stowed.
- Manoeuver at reduced speed.

### DANGER

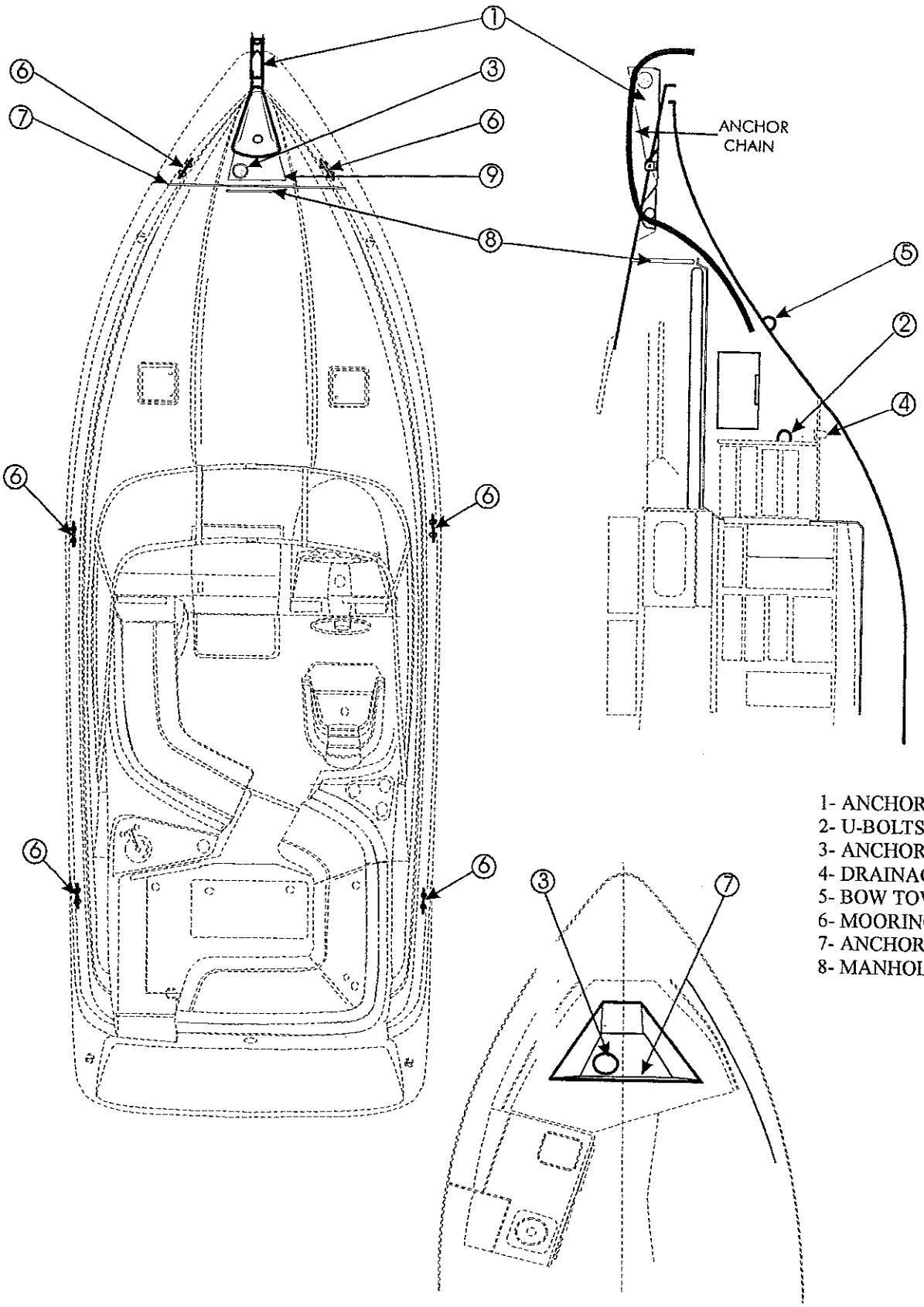
**Do not try to stop the boat with your foot, your hand or a boat hook.**

After mooring:

- Protect riggings from deterioration with plastic sheaths.
- If needed, evaluate variations in water level.

# WINDLASS AND WINCHING SYSTEM

270 SC



- 1- ANCHOR ROLLER
- 2- U-BOLTS
- 3- ANCHOR WELL COVER
- 4- DRAINAGE
- 5- BOW TOW EYE
- 6- MOORING CLEAT
- 7- ANCHOR WELL BULKHEAD
- 8- MANHOLE

**OWNER'S MANUAL**  
ISO 10240 - NMMA - ABYC

**CHAPTER 10**

**WINTER STORAGE**

ISO 10240



## WINTER STORAGE

Winter storage procedure is done in two stages.

### LAYING UP

Remove all onboard documents, hawsers not used for mooring, kitchen utensils, provisions, clothing, safety material and board battery.

Mark up all safety material and check expiry date. Take a complete inventory of safety material.

### PROTECTION AND MAINTENANCE

#### INTERIOR

Seal every air inlet and install an atmospheric dehydrator in the wardroom, while leaving cupboards and refrigerator doors open.

Fully air cushions and store back on boat, leaving on the side to limit surface contact.

#### EXTERIOR

Thoroughly rinse hull and deck, lubricate all mechanical and moving parts (locks, hinges, latches, etc.) with Vaseline.

Avoid any hawser friction.

Give boat maximum protection and make sure it is well moored.

All these recommendations do not make an exhaustive check-list; your dealer will be able to advise you and take care of the mechanical maintenance of your boat.

#### MOTOR

**Refer to handbook for all information on motor.**

**OWNER'S MANUAL**

ISO 10240 - NMMA - ABYC

**PERSONAL NOTES**