

06' Malibu Owner's Manual



malibu

...A Step Beyond

RECORD IMPORTANT INFORMATION

In addition to this manual, your Malibu Owner's Packet contains instructions, warranties and other important information from component manufacturers. Read these materials carefully since improper registration, operation and maintenance can void the warranty and jeopardize the safety of you and others. Fill in the information below and keep a copy of it in a safe place.

Hull

HIN _____

Ignition Key # _____

Registration # _____

Date Purchased _____

Dealer/Phone _____

Fax/E-mail _____

Engine

Model # _____

Serial # _____

Transmission

Model # _____

Serial # _____

Trailer

Model # _____

Serial # _____

Accessory

Model # _____

Serial # _____

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INTRODUCTION

Over the years, you have watched us grow into one of the most respected boat builders in the world. And undoubtedly, somewhere, you have run into at least one Malibu owner who proudly speaks of the “Malibu Difference.” That difference they so proudly speak of could be the special way we have serviced them over the years. We call it “going the distance.” Or maybe they are referring to the way their Malibu consistently outperforms other ski boats that they have driven. We can’t deny that we are different. Our passion for building the perfect ski boat is only surpassed by our commitment to total customer satisfaction.

This manual has been assembled to help you operate your new Malibu with safety and pleasure. Details of typical equipment as well as recommended safety and maintenance procedures about your boat are supplied. Please read carefully and familiarize yourself with the craft before using it.

We at Malibu Boats thank you for choosing us as your boat manufacturer and assure you that your satisfaction and boating enjoyment will continue to be our #1 priority.

CERTIFICATIONS & STANDARDS

NMMA Certification

Your Malibu boat has been built to meet or exceed the standards set by the National Marine Manufacturers Association (NMMA). NMMA verifies annually, or whenever a new boat model is introduced, to determine that they meet not only Coast Guard regulations, but also the more comprehensive standards set by the American Boat & Yacht Council (ABYC).

Standards To Which This Boat Was Built

Your Malibu boat was built with the utmost care throughout the complete manufacturing process. The deck, hull, stringers and floor, as well as many accessory components, were built using our hand-laid composite fiberglass scheduling techniques. All boats receive complete quality control checks. Each boat is lake tested, and all information is kept on file at our factory for future reference.

Hull Identification Number (HIN)

Your Hull Identification Number can be found on the starboard transom of your boat below the rubber rub rail. Federal law prohibits the tampering or removing of the number in any way. Use this number to register your boat with your local and state authorities.

US MB2GXXXXA001

MODEL SPECIFICATIONS

	Response / Response LX	Response LXi	iRide / V Ride	Sunsetter LXi	Sunsetter / Wakesetter XTi
Length	20' / 6.10 m	20'6" / 6.10 m	21'6" / 6.25 m	21'6" / 6.25 m	21'6" / 6.25 m
Beam	90" / 2.29 m	93.5" / 2.37 m	93.5" / 2.37 m	98" / 2.49 m	98" / 2.49 m
Draft	16" / 0.56 m	16" / .56 m	24" / 0.61 m	24" / 0.61 m	24" / 0.61 m
Weight	2450 lbs / 1111 kg	2800 lbs / 1270 kg	2900/3000 lbs / 1315/1361 kg	3300 lbs / 1497 kg	3300 lbs / 1497 kg
Fuel Cap.	35 Gal. / 132 L	41 Gal. / 155 L	35 Gal. / 132 L	46 Gal. / 174 L	47 Gal. / 174 L
Seating Cap.	6 / 8 Persons	8 Persons	10 Persons	10 Persons	12 Persons
Std. Engine	310 Vortec	311 Vortec	310 Vortec	310 Vortec	340 Monsoon
Std. Gelcoat	4	3	3	4	3
Ballast Weight	N/A	N/A	Bow / Midship / Rear NA / 450 / 500	Bow / Midship / Rear NA / 450 / 500	Bow / Midship / Rear NA / 450 / NA
Std. Prop	3 Blade ACME	3 Blade ACME	3 Blade ACME	3 Blade ACME	3 Blade ACME

	Sunscape/ 21 LSV Wakesetter VLX	Sunscape/ Wakesetter 23 LSV	Sunsetter/ Wakesetter XTi	Sunscape Wakesetter 247	Sunscape Wakesetter 25 LSV
Length	21'6" / 6.25 m	23' / 7.01 m	23' / 7.01 m	24' 7" / 7.49 m	25' / 7.61 m
Beam	98" / 2.49 m	100" / 2.54 m	100" / 2.54 m	102" / 2.59 m	102" / 2.59 m
Draft	24" / 0.61 m	24" / 0.61 m	24" / 0.61 m	26" / 0.66 m	26" / 0.66 m
Weight	3500 lbs / 1588 k	3800 lbs / 1724 k	3400 lbs / 1524 k	3900 lbs / 1748 k	4500 lbs / 2018 k
Fuel Cap.	46 Gal. / 174 L	55 Gal. / 208 L	47 Gal. / 178 L	87 Gal. / 331 L	80 Gal. / 304 L
Seating Cap.	11 Persons	12 Persons	12 Persons	16 Persons	14 Persons
Std. Engine	340 Monsoon	340 Monsoon	340 Monsoon	Hammerhead 383 400 HP	8.1 Liter 425 HP
Std. Gelcoat	3	3	3	3	3
Ballast Weight	Bow / Midship / Rear 350 / 450 / 500	Bow / Midship / Rear 350 / 450 / 500	Bow / Midship / Rear NA / 450 / 400	Bow / Midship / Rear 350 / 450 / 500	Bow / Midship / Rear NA / 450 / 500
Std. Prop	4 Blade ACME	4 Blade ACME	3 Blade ACME	4 Blade ACME	4 Blade ACME

Chapter 1

BOATING SAFETY



At Malibu, safety is not an option!

General Precautions

Your Malibu boat has been constructed to meet all U.S. Coast Guard and National Marine Manufacturers Association (N.M.M.A.) requirements. However, it is still your responsibility as the boat owner to ensure the boat is always operated in a safe fashion.

U.S. Coast Guard regulations require certain safety equipment be present on your boat during operation. Besides the U.S. Coast Guard regulations, other local and/or international law enforcement agencies may have similar requirements. You should check with your local marine enforcement agency regarding any such requirements before using the waterways.

It is not intended for this manual to be a replacement for a course on boating safety. It is highly recommended that if you are unfamiliar with the use and operation of a boat, you seek advice and training from a qualified individual or organization. Check with your local boating agency or Malibu dealer for more information about boating safety classes in your area.

Safety Statements

Throughout this manual, specific precautions and symbols identify safety related information. Follow these precautions as indicated.



The Safety Alert symbol means Attention! Become Alert! Your Safety Is Involved!

DANGER



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

Warning



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

Caution

Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury or property damage. It may also be used to alert against unsafe practices.

Notice: Indicates installation, operation or maintenance information which is important but not hazard related.

The precautions listed in this manual and on the boat are not all-inclusive. If a procedure or method is not specifically recommended, you must satisfy yourself that it is safe for you and your passengers, and that the boat will not be damaged or made unsafe as a result of your decision. **Remember — always use common sense when operating your boat!**

Regulations

The U.S. Coast Guard is the governing authority of the waterways and is there to help the boating public. State boating regulations are enforced by local authorities. You are subject to marine traffic laws and “Rules of the Road” for both federal and state waterways; you must stop if signaled to do so by enforcement officers and permit to be boarded, if asked.

Responsibilities

Registration

Federal Law requires that all motorboats be registered and that all motorcraft not documented by the U.S. Coast Guard display registration numbers. In nearly all states, this means registration with the designated state agency. In a few jurisdictions, the Coast Guard retains registration authority. Your Malibu dealer will either supply registration forms or tell you where they may be obtained. The agency will supply you with a certificate which must be carried with you when the boat is in operation.

Education

If you have never owned a boat before you can get an excellent introduction to boat handling from organizations such as the U.S. Coast Guard and American Red Cross. Even if you are a veteran boater, these courses will help sharpen your boating skills as well as bring you up to date on current rules and regulations. See your local boating agency or Malibu dealer for information on classes in your area.

Insurance

The boat owner is legally responsible for damages or injuries he or she causes. Common sense dictates that you carry adequate personal liability and property damage insurance on your boat, just as you would on your automobile. You should also protect your investment from physical damage or theft.

Safety Equipment

U.S. Coast Guard regulations require certain accessory equipment on each boat. For a detailed description, obtain “Federal Requirements for Recreational Boats” published by the Coast Guard.

- 1) Personal Flotation Devices (PFDs): PFDs must be Coast Guard approved, in good and serviceable condition and the appropriate size for the user. It is recommended that you wear PFDs while your boat is underway.

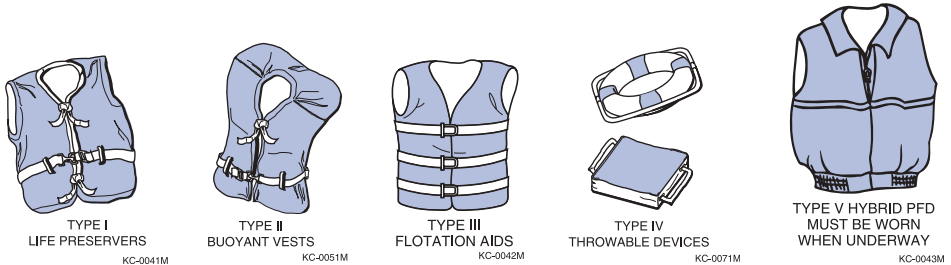


Figure 1-1. Personal Flotation Devices

Boats more than 16 feet in length must be equipped with one type I, II, III or V and one type IV. PFDs are intended to save lives; you and your passengers should wear them while in the boat. Learn how to use them and adjust as necessary to make comfortable to wear. The type II PFD is recommended for near shore or inland water use. Some PFDs are specially made for use while waterskiing and can handle impacts if a skier has fallen.

Notice: If a type V PFD is to be counted toward the minimum carriage requirements, it must be worn.

- 2) Emergency Stop Switch: Factory installed lanyard emergency stop switch. It is highly recommended that you use this switch since it can prevent your boat from becoming a runaway. (See page 2-13 for specific use.)
- 3) Fire Extinguishers: A fire extinguisher is required if your boat has an inboard engine, or when fuel is stored in closed stowage compartments.

Approved fire extinguishers are classified by a letter symbol, either B-I or B-II with the B designating that the material will extinguish flammable liquids such as gasoline, oil, etc. B-I extinguishers are required for boats less than 26 feet in length. Check periodically to insure that the extinguisher is in working condition and fully charged.

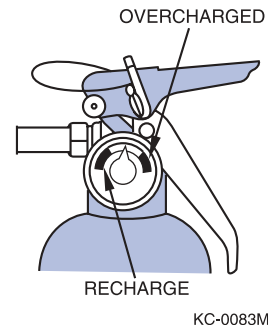


Figure 1-2. Fire Extinguisher

- 4) **Navigation Lights:** Recreational boats are required to display navigational lights between sunset and sunrise and other periods of reduced visibility (fog, rain, haze, etc.). Your navigation lights are provided to keep other boats informed of your presence and course. It is up to you to make sure they are operational and turned on when required.

Emergencies

Giving Assistance

Many of the distress calls are not true emergencies. In most cases the boat is disabled for one reason or another, but there is no immediate danger of death or serious injury. However, emergencies can occur and you should know how to cope with them. If you observe a boat in distress, assume it is a true emergency. Proceed to the scene and render assistance. Federal law requires boat operators to offer assistance and aid to others. The law's "Good Samaritan" clause absolves you from any civil liability in the event that your assistance causes injury or property damage.

There is a way to handle nearly every emergency if you don't panic. Learn your boating lessons and safety procedures well, and you will have the confidence and ability to handle an emergency should one arise.

Fires

Many boat fires involve flammable liquids such as gas or oil. Many inboard fires start in the bilge area which at times can be filled with gas vapors. Since gas vapors cannot be seen, boat fires tend to travel very fast. If you encounter a fire onboard, turn off the engine immediately. If you have a fire extinguisher onboard and access to the fire, it may be controllable. Direct the contents of the extinguisher at the base of the flames. Throw burning materials overboard if possible. Put on PFDs if not already on, signal for help and prepare to abandon the boat if necessary.

Reporting

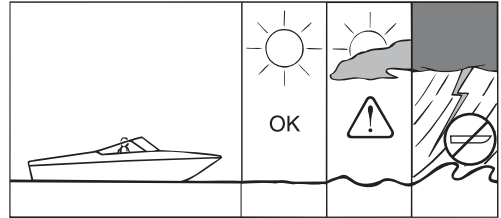
Boat operators are required by law to file a Boating Accident report with their state boating law enforcement agency when their boat is involved in certain boating accidents. A boating accident must be reported if there is a loss or probable loss of life, personal injury requiring medical attention, damage exceeding \$500, or there is a complete loss of the boat. If any of these conditions arise seek further assistance from local law enforcement personnel.

Hazardous Conditions

Every waterway poses hazards that should be avoided. The following information outlines some of the hazards which may be encountered.

Weather

Learn and understand weather patterns and signs of change. Bad weather can cause an uncomfortable and unsafe situation. If a storm approaches seek a safe harbor.



KC-0210M

Figure 1-3. Weather Hazards

Dam Spillways

The area around dam spillways is very hazardous and conditions can change rapidly. Stay clear of the spillways and areas below dams.

Weeds

Weeds can generally be a threat to a boat's engine and other components on the boat. If weeds wrap around the propeller they can create vibration in the engine. They also restrict water intake, causing the engine to overheat, and can clog speedometer pickup tubes, affecting correct speedometer readings.

Shallow Water Operation

Shallow water brings on obvious hazards such as sand bars, stumps, rocks, etc. Know the area you will be operating the boat in. Hitting objects at high speeds can cause severe damage to people and the boat. If you know you will be navigating the boat in shallow water, post a lookout and proceed slowly.

Know the minimal depth your boat can safely travel.

Caution | *Damage to underwater gear caused by shallow water maneuvering is not covered by your warranty.*

Warning Markers

Learn to recognize the different buoys and day markers; they are used as the signposts of the waterways identifying navigable routes and water hazards. It is a good idea to ask local authorities about hazard areas and if they are marked. Stay within boundaries and clear of hazards.

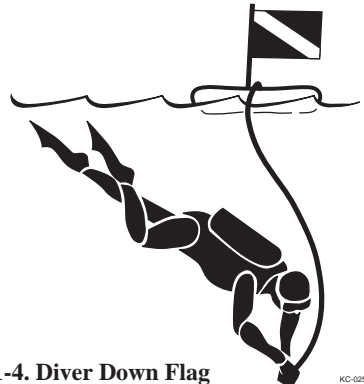


Figure 1-4. Diver Down Flag

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Carbon Monoxide

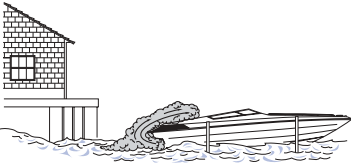
Carbon Monoxide (CO) is a colorless and odorless gas produced by all engines and fuel burning appliances. Even with the best boat design and construction, plus the utmost care in inspection, operation, and maintenance, hazardous levels of CO may still be present in accommodation spaces under certain conditions. To reduce CO accumulation, always ventilate the boat interior and avoid boating situations which cause increased exposure.

DANGER

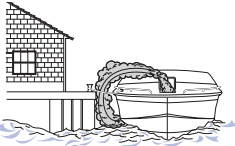


EXTREME HAZARD – Carbon monoxide gas (CO) is colorless, odorless and extremely dangerous. All engines and fuel burning appliances produce CO as exhaust. Direct and prolonged exposure to CO will cause BRAIN DAMAGE or DEATH. Signs of exposure to CO include nausea, dizziness and drowsiness. Sources of CO include:

- 1 Blockage of boat exhausts by obstruction.



- 2 Exhausts traveling along obstruction.



- 3 Operating at slow speed or while dead in the water.



- 4 Operating with high bow angle.



- 5 Exhausts from other vessels in confined areas.



- 6 Operating with canvas tops and side curtains in place without ventilation.



ENSURE ADEQUATE VENTILATION FOR CORRECT AIR MOVEMENT THROUGH BOAT!

KC-0461M

Figure 1-5. Carbon Monoxide Hazards

Operation By Minors

If your boat will be operated by a minor, remember to have an adult present at all times. Many states have laws regarding minimum age and licensing requirements for minors. Contact state and local authorities for special requirements that may apply in your area.

Passenger Safety

Any time you take your boat out, make sure that there is at least one other passenger aboard who is familiar with the operation of your boat. Passengers should be well aware of emergency equipment and shown how to use it. Passengers should also keep hands and feet in the boat and be safely seated while the boat is in motion.

Your boat should never be operated while you are under the influence of alcohol or drugs. Reaction times can be reduced and judgment affected creating situations that can be very dangerous.

Warning



Federal and state laws prohibit operating a boat under the influence of alcohol and other drugs. These regulations are actively enforced. Impaired operation may result in severe personal injury or death.

Basic Rules Of The Road

Warning



The nautical rules of the road must be followed to prevent collisions between vessels. Like traffic laws for automobiles, the operator is legally required to follow the rules.

The following information outlines only the most basic of the nautical rules of the road. For more information, contact your local U.S. Coast Guard Auxiliary.

Aids to Navigation

Learn to recognize the different buoys and day markers; they are the signposts of the waterway. There are 2 primary marking systems in use in the U.S.: the Uniform State Waterway Marking System (USWMS) used on inland waters and maintained by each state, and the Federal Waterway Marking System (FWMS) used on coastal waters and rivers and maintained by the U.S. Coast Guard (USCG). In addition, the FWMS has two modified systems; Western River Buoyage, and Intracoastal Waterway Buoyage. Be sure to check with local authorities on the buoyage system in use.

The type of hazard/warning buoys and markers depends on the area of jurisdiction. Check with local boating authorities.

USWMS System

In the USWMS Lateral System, well defined channels are marked with red and black buoys. Lateral means the sides of the channel are marked and the boat should pass between them.

The USWMS Cardinal System is used when there is no well defined channel or where an obstruction may be approached from more than one direction. With the cardinal system:

- Pass north or east of BLACK-TOPPED WHITE buoy.
- Pass south or west of RED-TOPPED WHITE buoy.
- RED and WHITE VERTICALLY STRIPED buoy indicates boat should pass outside of the buoy (away from shore).

Uniform State Regulatory Markers

USWMS regulatory markers are white with international orange geometric shapes; you must obey regulatory markers.

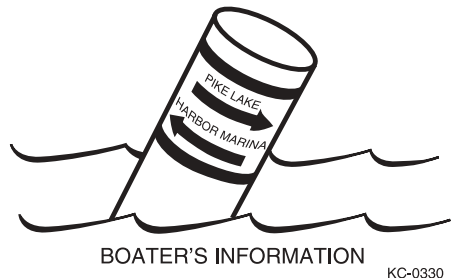


Figure 1-6. Regulatory Markers

FWMS System

The FWMS Lateral System is for use on navigable waters except Western Rivers and Intracoastal Waterways.

The markings on these buoys are oriented from the perspective of being entered from seaward (the boater is going towards the port). This means that red buoys are passed on the starboard (right) side of the vessel when proceeding from open water into port, and green buoys to the port (left) side.

The right side (starboard) of the channel is marked with RED, even numbered buoys. The left (port) side of the channel is marked with GREEN, odd numbered buoys.

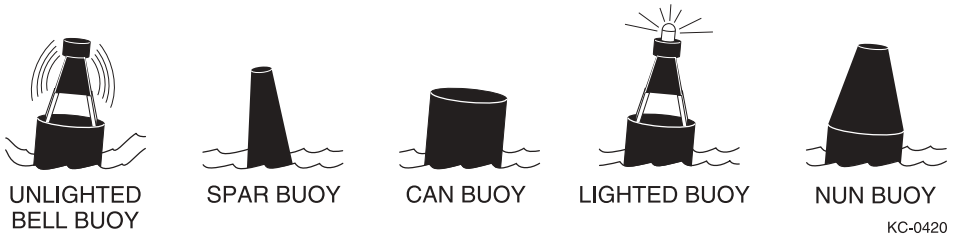


Figure 1-7. Buoy Shapes

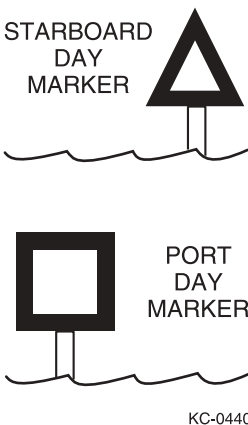
The middle of the channel is marked with RED and WHITE vertically striped buoys; pass close to these buoys.

Obstructions, channel junctions, etc. are marked with RED and GREEN horizontally striped buoys.

A RED band at the top means the preferred channel is to the left of the buoy; a GREEN top band means the preferred channel is to the right of the buoy.



Figure 1-8. Spherical Marker



Day markers are colored and numbered the same as buoys. RED, triangular day markers with even numbers mark the starboard side of the channel. GREEN, square day markers with odd numbers mark the port side of the channel.

Lights, bells and horns are used on buoys for night or poor visibility conditions.

Figure 1-9. Day Markers

Right-Of-Way

Notice: In general, boats with less maneuverability have right-of-way over more agile craft. You must stay clear of the vessel with right-of-way and pass to his stern.

Privileged Boats

Privileged boats have right-of-way and can hold course and speed. Sailboats and boats paddled or rowed have the right-of-way over motor boats. Sailboats under power are considered motorboats. Small pleasure craft must yield to large commercial boats in narrow channels.

Burdened Boats

The burdened boat is the boat that must make whatever adjustments to course and speed necessary to keep out of the way of the privileged boat.

Crossing Situation

In crossing situations, the boat to the right from the 12 o'clock to the 4 o'clock position has the right-of-way. It must hold course and speed. The burdened boat keeps clear and passes behind the privileged boat. Boats going up and down a river have the privilege over boats crossing the river.

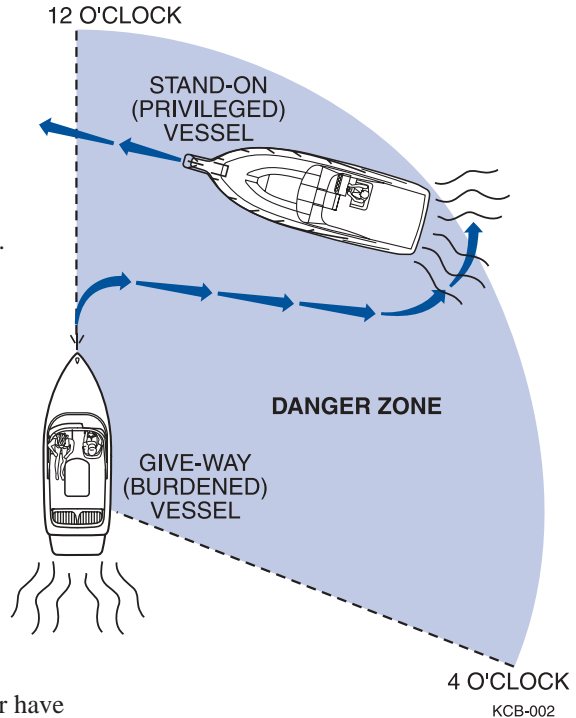


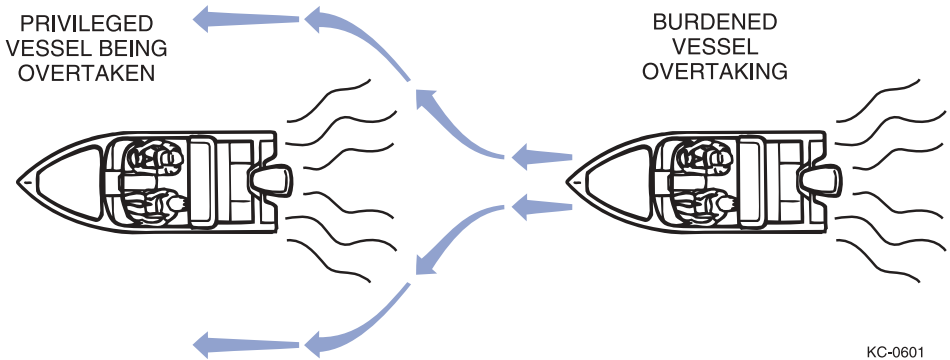
Figure 1-10. Crossing Situation

Meeting Head-On

Neither boat has the right-of-way in this situation. Both boats should decrease speed, should turn to the right, and pass port-to-port. However, if both boats are on the left side of a channel, each vessel should sound two short horn blasts and pass starboard to starboard.

Overtaking

The boat that is overtaking one ahead of it is the burdened boat and must make any adjustments necessary to keep out of the way of the privileged boat.



KC-0601

Figure 1-11. Overtaking Another Craft

The General Prudential Rule

The general prudential rule regarding right-of-way is that if a collision appears unavoidable, neither boat has right-of-way. As prescribed in the Rules of the Road, both boats must act to avoid collision.

Night Running

Boats operating between sunset and sunrise (hours vary by state) must use navigational lights. Nighttime operation, especially during bad weather or fog can be dangerous. All Rules of Road apply at night, but it is best to slow down and stay clear of all boats, regardless of who has right-of-way. Protect your night vision by avoiding bright lights and have a passenger, if possible, help keep watch for other boats, water hazards, and aids to navigation.

Chapter 2

FEATURES & CONTROLS



No other ski boat manufacturer incorporates in their product as many innovative and technically advanced features as Malibu.

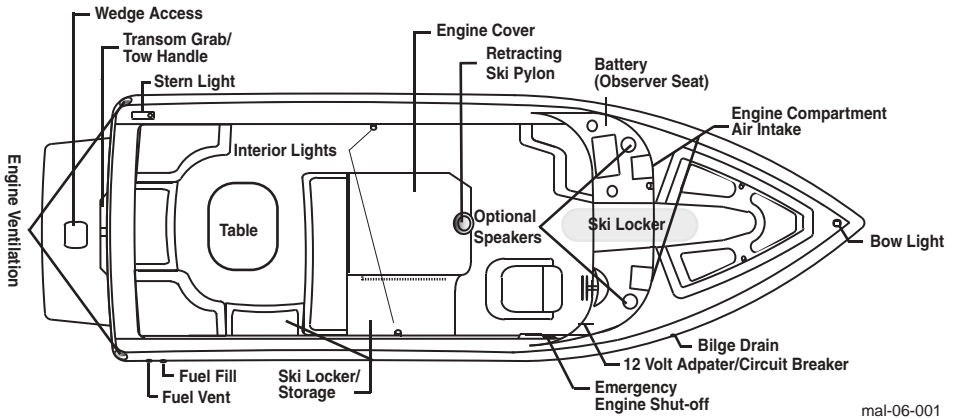


Figure 2-1. General Layout XTi Model Boats

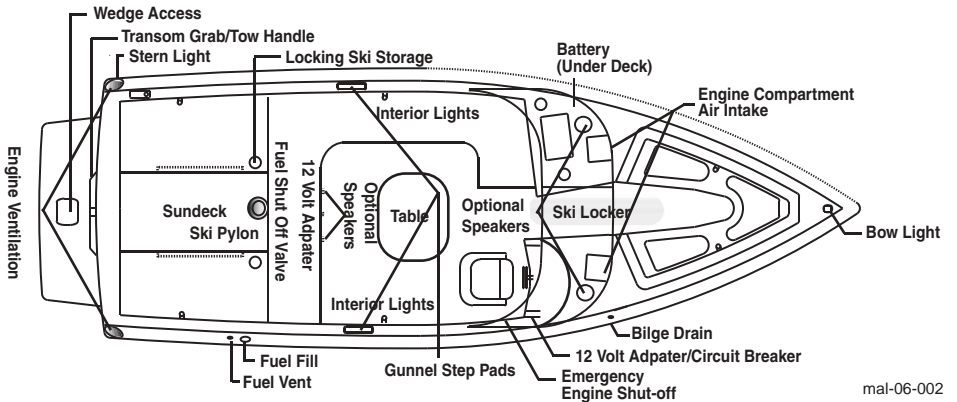
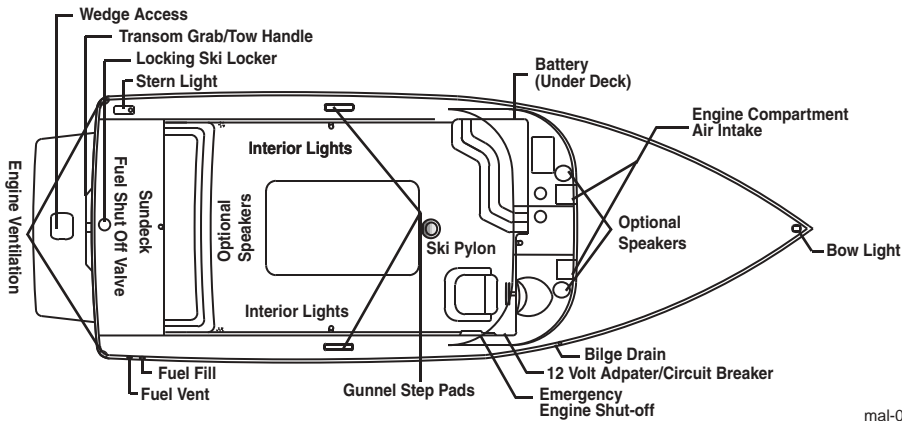


Figure 2-2. General Layout V-Drive Boats



mal-06-003

Figure 2-3. General Layout Direct Drive Boats

Standard Gauges

The following gauges are included on all models. It is important for the safe and proper operation of your boat to fully understand these gauges.

Malibu In-Dash Graphical Display



Figure 2-4. Graphical Display

Malibu's state-of-the-art Malibu Graphical In-Dash Display Center enables the operator to observe and control many graphic functions that are applicable to the performance and use of your boat. These include Malibu Cruise Control, Ballast Monitoring System (BMS), Air/Sea Temperature, Depth, as well as standard use gauges for monitoring volts, engine temperature, oil pressure, remaining fuel level and percentage, speedometer, and tachometer.

Tachometer

Located to the left side of the dash panel the tachometer registers the operating speed of your engine in revolutions per minute (RPM). This gauge is used to provide you with information needed to ensure the engine is kept within the engine manufacture's recommended proper range of operation. For your additional benefit, there are other RPM monitoring capabilities available in your dash system that will be explained later in this manual. Also included in the gauge panel are additional digital readings for oil, volt, and hour meter. The system defaults to these readings from the display panel and no adjustments are possible. Be sure to consult your engine manual for the correct range of operation for your particular engine model.

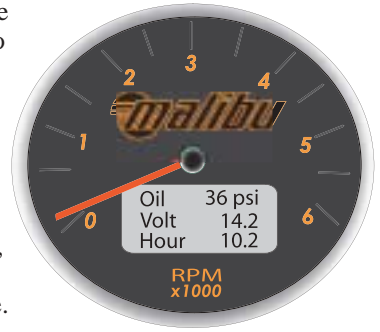


Figure 2-5. Tachometer with Oil, Volt Hourmeter

Caution

Do not operate your boat beyond the recommended RPM range. This could cause irreversible problems, and may not be covered under your engine warranty.

Speedometer

The Speedometer registers speed in miles per hour (MPH). The speedometer system consists of a thru-hull paddle wheel speed sensor that records water movement which sends information to a computer located under the dash. The computer converts the information to analog readings to be displayed in the speedometer window. The speedometer readings can also be found in the digital display window of the In-Dash graphical display located in the center of the gauge panel. Additional information will be explained later in this manual for this display. The speedometer is calibrated from the factory and does not normally require adjustment. However, from time to time it may be necessary to re-calibrate. To calibrate the speedometer, see *Speedometer Calibration* in this manual. Also included in the speedometer gauge panel are additional digital readings for depth, air and lake temperatures. The system defaults to these readings from the display panel and no adjustments are possible.

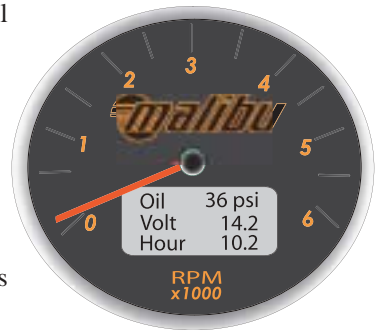


Figure 2-6. Speedometer with Depth, Air and Lake Temperature Gauge

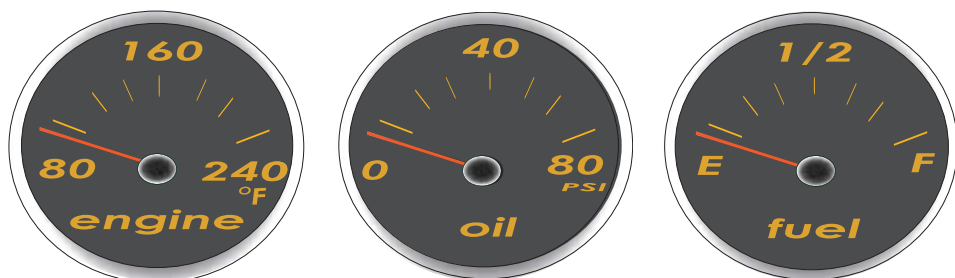


Figure 2-7. Dash Gauges

Engine Temperature

The temperature gauge is located at the lower center left bottom panel of the dash display. The temperature gauge indicates the temperature of the water/coolant inside the engine. The proper operating range for your engine is between 140 – 160 degrees Fahrenheit. All engines are equipped with an engine control module that will cause the engine to run at reduced speeds (limp mode) if the engine is running above recommended operation temperatures. If you notice that your speed has reduced during normal running operation without reducing the throttle, monitor your temperature gauge. If your temperature gauge indicates excessive temperatures, slow down immediately and turn off engine. Continuing to operate the boat while the temperature is above normal operating parameters may cause serious damage to your engine.

Oil Pressure

The oil pressure gauge is located at the lower center of the bottom panel of the dash display. The oil pressure gauge indicates the oil pressure in the engine while the engine is running and is measured in pounds per square inch (PSI). Oil pressure may vary with engine speed, outside temperatures, oil viscosity, and other environmental factors. If the oil pressure reading is below the normal range, you should stop your engine and check your oil immediately.

Average pressure ranges are between 6 PSI at 1000 RPM and 40 PSI at cruising speeds. If you are experiencing low oil pressure, stop your engine and check your oil before operating again.

Warning



Do not continue to run engine if pressure is low. If you do the engine can become so hot that the surrounding components could catch fire.

Notice: Damage caused from neglected oil problems can be costly. Such damage is not covered by your warranty.

Fuel

The fuel gauge is located at the lower center right bottom panel of the dash display. The fuel gauge indicates the quantity of fuel remaining in the tank when the ignition is in the “On” position. Although your fuel tank will still have some fuel remaining even though the gauge reads empty, it is recommended that the tank be filled when the gauges indicates 1/4 full.

Warning

Do not top off tank.



Notice:

It is not uncommon during operation of your boat for the fuel gauge to register slightly different amounts than what is actually in the tank. This is normal operation and does not indicate a problem.

Malibu Graphical In-Dash Display

New for 2006, all boats will include the Malibu Graphical In-Dash Display as a standard feature. This display can be found in the center of your dash console behind the steering wheel. Information is displayed in digital format for easy to read information, navigable using the Function up ↑ arrow, or Function down ↓ arrow followed by pressing the Enter (E) button in the center right of the display panel. The Graphical Display includes these features: Malibu Cruise, Ballast Monitoring System (BMS) “Available in wakeboard models only,” Air/Sea Temp, and Depth meter.



Figure 2-8. In-Dash Display

Setup

When you first turn on the ignition of your boat, you will see the screen above, followed by a Setup menu. To navigate the system menus, use the up ↑ arrow. When you arrive to the screen you would like to use or setup press the E (Enter) on the display panel. To exit the setup menu, press the E (Enter); this will return you to your default screen.

Setup E (Enter)

Contrast: Display used to lighten or darken display screen – scroll through display until desired lightness is attained.

Units English/Metric: To switch from English or Metric Display, press the up ↑ arrow. Press E (Enter) again to return to setup.

Favorite: Use the Favorite screen setup to show your favorite screen in the display menu. Once programmed, your Display menu will default to this screen. These are the available screens that can be shown:

Malibu Cruise

Ballast Monitoring

Boat Systems – Batt, Temp, Oil, Fuel %

Clock

Tachometer/Speed

Service: To activate the service data press the E (Enter) button. Use the service data to evaluate system components. **Note: Service display only available for dash instrumentation at this time.**

Clock/Hour Display

Press the E to display the setup screen “Clock/Hour Display.” The month, day and year will be displayed. Set month first, press enter (E) to move to the next selection; set the day, press enter (E), then day (E). Once the year is set, the selection will continue to set the time. Set each completed: hour, minute second; to move to the next screen, press (E) up ↑ arrow. The next display panel will be shown.

Temperature

The air and water temperatures are shown on the display panel. Temperature can be displayed in either Fahrenheit or Celsius. See English/Metric operation in the SETUP menu to change view.

Depth

The depth meter will display lake depth, and can be set for shallow water alarm, as well as deep water alarm. To set the shallow water settings press the E on the display panel. The display will be flashing. Scroll through the settings until the desired water depth is set. The system is set to default at two feet. To set the deep water settings, follow the above procedures. Once this is completed, press E to return to main menu.

MPH/RPM

Your dash display can also be set to display boat running speeds and RPM. If your speedometer needs correction due to changes in the system, it can be done using the MPH mode screen.

Speed Auto Cal

The speed can be calibrated automatically when the boat speed is between 15 and 36 MPH. To calibrate, scroll through the display menu to MPH/RPM. Press E to enter. The MPH mode is all that can be recalibrated.

Malibu Cruise Control (Standard on all Boats)

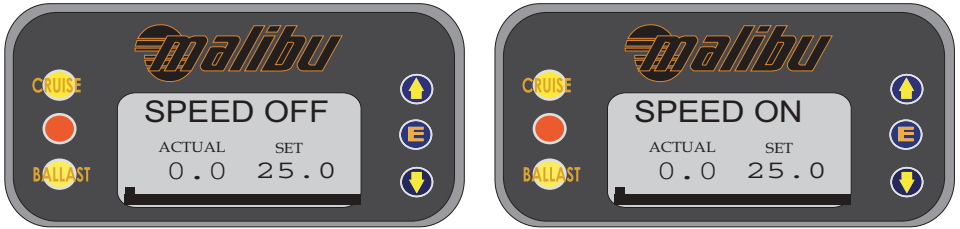


Figure 2-9. Cruise Control

Located on the upper left corner of the display menu is the Malibu Cruise Control. To activate the Malibu Cruise system, press the **CRUISE** button on the display panel. The Cruise will default to the OFF position. To turn the Cruise on, press the Cruise button again, and the system will be activated. The Cruise system will default to the last SET speed display, and can be increased or decreased by pressing the up or down arrows. To exit the Cruise display, press Cruise and you will return to the default screen.

Ballast Monitoring System (BMS) (Standard on Wakesetter Model)

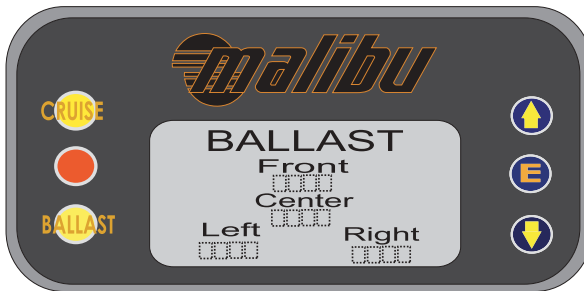


Figure 2-10. BMS

All 23 Wakesetter LSV, Wakesetter XTi, and 21.5 Wakesetter VLX come standard with the Ballast Monitoring System (BMS) display. The BMS can be used to visually see the amount of water ballast that is in each tank. The ballast amount is monitored in 1/4 tank increments, and can monitor the front, center, left and right rear tanks. The ballast fill switches are located on the dash switch panel labeled MLS. To activate the BMS, press the BALLAST button on the Dash Display. The BALLAST display window will show. To exit the BALLAST display screen, press the Red button; this defaults to your Favorites Screen.

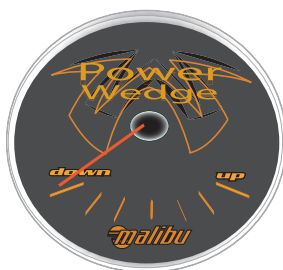
Power Wedge

The optional Power Wedge feature allows easy adjustment to raise and lower the wedge unit at the driver's seat. The Power Wedge includes a hydraulic wedge that attaches directly to the transom of the boat, and adjusts by the touch of a button on the switch panel. To raise and lower the Wedge unit, depress the Power Wedge switch located at the lower right position on the dash switch panel to achieve desired wake quality.

Notice: Wedge will not activate unless RPMs are above 1000. Alarm will sound when wedge is being deployed or retracted.

Notice: Be sure the wedge unit is up before loading boat on trailer.

Warning | *Ensure all passengers are in the boat before changing wedge position. Stay clear of wedge unit while in motion. Fingers and clothing can be pinched between wedge arms and bracket, causing serious injury to passengers.*



Power Wedge
Switch

Figure 2-11. Power Wedge

Circuit Breakers

All major boat circuits are protected from shorting and overload by resettable circuit breakers. If a problem develops with one of the following circuits, switch off the circuit and wait about one minute. Then push the appropriate breaker button fully and switch on the circuit. If the circuit continues to trip, there is a problem somewhere in the system. See your dealership immediately to locate the problem.



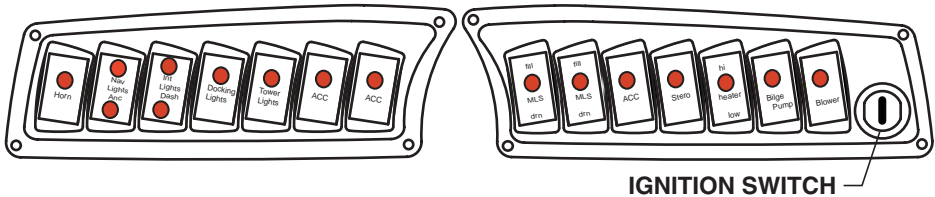
Figure 2-12. Circuit Breaker Panel

Switches & Indicators

Accessory Switch Panels

These panels are located in the dash directly below the standard gauges and are used to activate the following features. You will find the feature or accessory provided within each button face for description.

- Horn
- Navigation Lights
- Interior Lights
- Accessory Docking Lights
- Accessory Tower Lights
- Accessory Shower
- Accessory Heater
- Accessory Malibu Launch System (MLS)
- Accessory Stereo
- Bilge Pump
- Blower



mal-06-015

Figure 2-13. Accessory Switch Panel

Bilge Pump

The bilge pump switch is used to activate the bilge pump so that any excess water in the bilge area may be drained out. You should know that the bilge pump has a sensor in the bilge area and will turn on automatically whenever two inches or more of water is detected.

Blower

This switch activates the blower for the engine compartment. The primary function of the blower is to eliminate any fumes in the motor compartment when starting the engine or during idling.

Warning

Gasoline Vapors Can Explode. Before starting engine, operate blower for 4 minutes and check engine compartment for gasoline leaks or vapors. Run Blower below cruising speed.

Stereo Power

The optional stereo system can be activated by either turning the ignition key on after starting your boat, or can be used without the engine started by turning the key to the left position; the stereo head unit is located under driver seat armrest. See Stereo control section for specific system use.

Accessory #1

This switch is used to supply power to the optional heater unit. (For information on the heater use, please see heater operation in the optional equipment section of this manual.)

Accessory #2

This switch is used to supply power to the optional hot water shower. (For information on the use of the hot water shower, please see hot water shower usage in the optional equipment section of this manual.)

Interior Lights

This switch is used to activate the interior lights. The interior lights include lights in the gunnels, storage compartments, and dashboard.

Navigational Lights

In the ANC (anchor) position, this switch is used to activate the stern light. Keep the stern light on after dusk whenever your boat is at rest in the open waterway. While underway, place the switch in the RUN position to also activate the red and green navigation bow lights.

V-Drive Warning Light

The V-Drive Warning Light is located in front of the throttle on V-Drive model boats and is a warning device used to safeguard against low V-Drive fluids, which could result in overheating the unit and eventual failure.

If the light is on above 1200 RPM, the oil pressure is low. Check V-Drive oil. (Check while cool.) If the problem persists, see your local Malibu dealer.



MAL109-11

Figure 2-14. V-Drive Warning Light

Throttle Control

The throttle lever is located to the right of the driver. When the throttle is vertical, it is in the “NEUTRAL” position. At the base of the throttle you will find the shift lock. Pulling outward on this button disengages the transmission, thereby allowing use of the throttle without engaging the transmission. This is needed for starting or warm-up of the engine. Be sure to position the throttle vertically (in “NEUTRAL”), before re-engaging the transmission, by depressing the button.



Figure 2-15. Throttle

When engaging the transmission from “NEUTRAL” to either forward or reverse, you must pull up on the safety collar located directly below the throttle lever knob.

Warning



Before starting engine or engaging transmission, ensure all swimmers are out of the water.

For more information regarding the safe operation and maintenance of the throttle control, refer to the separate instructions located in the information packet shipped with your boat.

Steering System

It is important that you get the “feel” of your Malibu boat’s steering system. Turn the wheel from full left to full right, and make sure the rudder is turning accordingly. The system should operate freely and smoothly.

Notice: It is normal for your Malibu steering to pull slightly to the right under normal driving conditions. The boat will pull straight while skier is under tow.

Emergency Engine Stop Switch

The emergency engine stop switch attaches to the driver of the boat and shuts down the engine if the driver of the boat is accidentally forced away from the helm.

The switch consists of a helm-mounted switch plunger and a switch clip/lanyard clip, which is connected between the stop clip and the operator. Should the operator move away from the controls, the clip pulls free, releasing the plunger and stopping the engine. If the engine must be shut down quickly, a pull on the cord to release the clip from the switch will stop the engine.



Figure 2-16. Stop Switch Lanyard

To reset the switch after activation, reinstall the switch clip.

Notice: If lanyard switch is damaged or lost you can purchase a new switch through your local marina or Malibu dealer.

Motorbox Cover

The upholstered motorbox reduces engine noise and provides protection for the passengers on board. To open, stand on the port side of the box near the observer seat, grasp the handle near the floor and pull open. The motor box is equipped with either one or two gas-filled shock absorbers (depending on model) to provide support for the compartment when opened.



Figure 2-17. Motorbox

Warning



Running the engine with the motor box open exposes rotating machinery which can cause injury to occupants of the boat.

Driver's Seat

The driver's seat can be adjusted forward and backward by pulling the lever located on front left side of the drivers seat. Pull lever outward and adjust seat as needed.

Lumbar Support

The driver's seat is equipped with a Lumbar Support. To adjust, locate the twist knob located on the left side of the seat bottom. Turn the knob clockwise to increase lean back tension, or counterclockwise to decrease tension.



Figure 2-18. Bolster Seat

Swivel Seat Base

Some models are also equipped with a swivel seat adjustment. To adjust the seat, release the lever directly below the front center of the drivers seat area by lowering to the bottom of the seat base. Locate the twist knob on the left center of the seat base, (this knob is different than the Lumbar Support) and turn counterclockwise to loosen. The seat should swivel freely. To re-set the seat position, simply reverse these steps.



Figure 2-19. Lumbar Adjuster



Figure 2-20. Seat Adjuster

Integral Self Draining Ice Chest

This item is available on most model boats and can be found either in the observer seat base, center floor or under bow cushion seating areas. The melted water will drain into the bilge area of your boat.

Sundeck

Most boat models are equipped with a standard sundeck feature designed for sunbathing comfort.



Figure 2-21. Sundeck

Warning



The Sundeck is not to be used while the boat is in operation. Serious injuries or death could occur to persons not seated properly should the boat come to an abrupt halt.

V-Drive Engine Access Hatch

An engine access hatch is located behind the rear observers' seat on the V-Drive. Access allows the ability to service engine for required maintenance and for additional storage on both sides of the engine.



Figure 2-22. Engine Access Hatch

Warning



Ensure the safety pins located in the storage compartment are inserted into the hatch assembly. Failure to do this could allow your engine hatch door to open while under way causing damage to your boat and others.

Ski Pylon

The patented, pivoting-head ski pylon is a telescoping aluminum post located directly in front of the motor box. Minimal maintenance is required, but once a year remove the swivel pylon head and re-grease with a high temperature bearing grease. This will increase use of the pylon and reduce normal wear and tear. To use, pull pylon up, rotate clockwise, and lower until in locked position.

Warning



Malibu Boats' "Pivoting-Head" ski pylon is designed for normal water skiing activities: slalom, jumping, kneeboarding, tricks, and barefooting. Any other uses such as parasailing, kite flying, towing pyramids of skiers, etc., may over-stress the pylon and possibly cause personal injury and/or equipment damage.



Figure 2-23. Pivoting-Head Ski Pylon

Swim Platform

A removable swim step is located on the stern of the boat to provide easy access into and out of the water for boat skiers and swimmers. To remove, disconnect the pins located on each side the platform brackets, and depending on model either lift or slide back on platform. To replace, reverse these steps. Be sure the pins are securely attached.

Warning



DO NOT use the boarding platform for any other purpose than boarding the boat or preparation of entering the water, and DO NOT use the boarding platform when the engine is running.



Figure 2-24. Swim Platform

Warning



A spinning propeller or carbon monoxide can cause serious injury or death. Stay off and keep away from boarding platform while engine is running. The boarding platform must be attached when the boat is in use.



Figure 2-25. Swim Platform Pins

Navigational Lights

As required by the U.S. Coast Guard, all recreational vessels are required to display navigational lights between sunset and sunrise and other periods of reduced visibility. All Malibu Boats are equipped with bow and stern navigational lights.

The bow light located at the tip of the bow is two colored — red and green, and is used to keep others aware of your presence when operating your boat at night.



Figure 2-26. Bow Light

A covered two pronged connector can be found on the top of the transom. The stern light is plugged into this connector when needed and stored under the rear passenger seat when not in use.

Storage Areas

Bow Storage Area

Access to a large storage area located in the bow of all models is accessible by lifting the bottom-lifting strap of the observers' seat back. The size of the storage differs between open and closed bow versions. On open bow boats the seat cushions can be removed to provide additional storage.

Gunnel Ski Storage

Conveniently located on both sides of the boat, these storage areas are ideal for the storage of water skis, and other items.

Floor Ski Storage

Located on the floor between the driver's and observers' seats on open bow models with walk-through, is a panel that when lifted provides access to a large area that can be used primarily for storage of water skis. This area can also be used to store beverages, if desired.

Transom Storage

Some boat models are equipped with transom ski storage. Depending on the model, the storage is accessible from either the interior by lifting the observers' seat or from the transom swim platform by lifting the hatch cover. Most models are equipped with a locking device for the secure storage of your ski items.



Figure 2-27. Lockable Transom Storage

Drain Plugs

Your Malibu is equipped with two or three drain plugs; one located at the transom of your boat and the other directly below your engine/drive train. On the walkthrough open bow models you will find an additional drain plug in the ski locker or ballast area of your boat directly in line with your bilge pumps.



Figure 2-28. Transom Drain Plug

Transom Drain Plug

This plug is located in the center of the transom at the bottom edge, and is provided to allow for drainage of the bilge area, when needed.

Warning



Ensure all drain plugs are secure prior to launching your boat. Damage caused as a result of these plugs not being installed will not be covered under your Malibu warranty.

Bilge Drain Plug(s)

A T-handled, brass bilge drain plug is located in the engine compartment of all models. Location is normally directly below the drive-train unit. To access, lift motor box and look aft of the ski tow pylon, and forward of the engine. On the V-drive models, the T-handle can be found by lifting the rear passenger seat. The T-handle is located just below the V-drive unit.



Figure 2-29. Bilge Drain Plug

Warning



Ensure that all transom and bilge drain plugs are securely in place before placing the boat in the water.

Speedometer Pickup

Your boat is equipped with a Paddle wheel speedometer pickup, which can be found directly under the running surface of your boat. The paddle wheel is used to measure static water by rotation of the paddle wheel unit. This information is transferred to the dash computer and a computer program converts information which is transferred to the speedometer gauge.



Figure 2-30. Thru-Hull Paddle Wheel Pickup

See troubleshooting section of this manual for basic maintenance information.

Tilt Steering Wheel

The tilt steering wheel allows for maximum driver comfort. To adjust the height of the wheel, simply press down on the lever located under the wheel. Move the wheel to the position that is most comfortable. When the wheel is in the desired position, simply release the lever to lock the wheel in place.

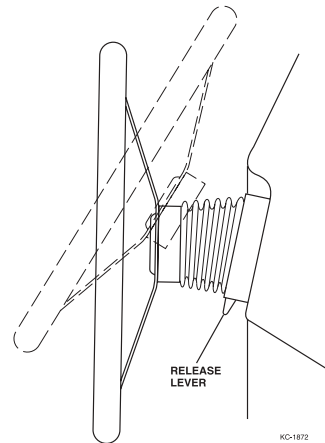


Figure 2-31. Tilt Steering

Exhaust

The exhaust system is used to remove engine exhaust fumes. To ensure that your boat's exhaust system is working correctly, it is important that you inspect for exhaust leaks. The following information will allow you to check these systems. Keep in mind that you will be checking engine while turned on, and that you will need to take safeguards against getting yourself or others caught in the moving parts. Use extreme caution while performing this task.

- Turn engine off and disconnect the engine safety switch. Be sure the throttle shift control is neutral. The engine must be cool.
- Open the engine and visually check the exhaust system from the engine to the transom for obvious damage.
- Re-install engine safety switch and start the engine with engine compartment open. Check hose connections between the exhaust manifolds and the muffler for leakage.
- If leakage is apparent, tighten the hose clamps, being careful not to crimp the hose. See your Malibu dealer for parts and or service.

Ventilation

The ventilation is used to remove potentially hazardous accumulation of explosive vapors from the bilge areas of your boat's hull and engine compartment. Therefore, proper ventilation is essential to the safety of the boat and persons in or around the boat structure.

Your boat is equipped with a ventilation system that will ensure complete removal of these dangerous fumes. However, it is your responsibility as the operator of the boat to ensure these systems are working efficiently. The boat's primary source for expelling fumes from the boat is the blowers located in the bottom of the bilge and at the transom venting points. See Section 2, page 2-1.

Your boat is also equipped with a natural air-intake that forces air through a venting system on the deck of your boat, and channels air from the bilge to the transom vent.

Cooling

Most boats will be cooled with a continuous intake of lake water circulating it around engine components.

Closed Cooling System

If your boat is equipped with an optional closed cooling system, you will need to maintain correct fluid levels.

- Open engine compartment and remove reservoir cap.
- Ensure coolant is to the top of the reservoir filler neck.
- Use Sierra Anti-Freeze

Notice: To ensure we are always mindful of our environment; it is an Indmar and Malibu Boat recommendation to use Sierra Brand antifreeze because of its propylene glycol formulation. SIERRA Antifreeze is less toxic and safer than ethylene glycol coolants to children, pets, and wildlife, in case of spills, leaks, boil-over, or careless disposal.

Caution | *The engine must be cool when checking the coolant level. Hot coolant and steam under pressure may cause injury.*

Optional Equipment

Heater

If your boat is equipped with a heater, you will find an ON/OFF accessory switch located on the dash panel. Located at the base of the observer seat walkway is a snorkel tube that can be pulled out and directed wherever you like within a five-foot radius. Please refer to the information provided in your owner's packet for specific use.



Figure 2-32. Heater

Boat Cover

If your boat is equipped with this option, know the type of cover you are placing on your boat. Some Boat Covers have been made strictly for mooring and storage only, and some have been made for storage and travel. If you question the type of cover that you have purchased, check with your Malibu dealer for assistance.



Figure 2-33. Boat Cover

Warning



Damage caused to your boat as a result of improper cover use is not covered under your Malibu Boats warranty. Damage can result from wind whipping, and possibly cause abrasions to your gelcoat surface. Use the proper shipping cover for travel purposes.

Bimini Top

For boats equipped with this option, attach the bimini top support legs to the wings on the side of the windshield. Place screw in each wing to hold in place. Attach adjustable strap to the eyelets located in the front and rear of the windshield, and adjust strap for tightness of the canvas.

For additional installation and assembly instructions, refer to the information that came with the bimini top.

Notice: If the canvas top is wet, allow to air dry before storing to prevent mildew.



Figure 2-34. Bimini Top Screw



Figure 2-35. Strap Eyelet



Figure 2-36. Stereo Location (Arm Rest)

Stereo

The optional stereo head unit is located under the driver's armrest. To access the stereo's faceplate, simply lift the armrest. To turn the stereo on, the dash ignition key switch must be turned on. The key can be turned to the left if you will not be running the boat; the remote control panel located below the dash lower right, can control the stereo. See Figure 2-31. Some systems, if equipped, will have an optional remote pad located at the back of the boat either in the passenger area, or exterior transom. For specific stereo use, please refer to the stereo manual that was included in your owner's packet. Standard on all boats equipped with stereo system is an MP3 input line. See instructions found in your owner's packet for specific use.



Figure 2-37. Stereo Remote Control Panel

If your boat was equipped with optional sound equipment to include CD changer, amplifier, or subwoofer, please refer to these specific manuals included in the owners' packet for use.

Warning



Due to the many stereo accessories, and additional boat optional stereo components that can be added to this system, it is very easy to overload the boat's electrical systems capability to recharge your battery resulting in a dead battery.

If you will be adding additional equipment to your boat, it is recommended that you have a trained technician calculate draw and amperage of the electrical system before adding equipment. Higher Amp alternators are available to prevent an overloaded system.

The stereo faceplate can be removed for security purposes by depressing the upper right corner button.

Hot Water Shower

If your boat is equipped with a hot water shower, you will find an ON/OFF accessory switch located on the dash panel. You will find the valves located on the port side of the motorbox compartment. The shower head can be found in the port gunnel sides. You should find specific instructions on the use of your hot water shower in the packet of materials you received with your boat.



Figure 2-38. Shower Head



Figure 2-39. Shower Valve

Pull-Up Cleats

Pull-Up cleats are available for all boat models. These cleats will sit flush on the side of the boat deck when depressed. To pull up the cleats, simply press the screw/button located in the center of the cleat. To depress the cleat, simply press the cleat downward until it locks into place.



Figure 2-40. Pull-Up Cleat

Docking Lights

The docking lights should only be used during slow speed docking maneuvers. The lights are activated by a switch on the accessory switch panel and have a 10 amp circuit breaker. Bulb access is through the lens cover outside the boat. Replacement bulbs:

- Standard Lights: 12V 30W EXT
- 25' Lights: H7614 Sealed Beam

Port-a-Potty/SaniPottie (Sunscap 25 model boats only)

The portable port-a-potty provides simple and convenient disposal of waste for use in your boat while on the water. Before using the optional Port-a-Potty toilet, refer to your owner's manual that came in your owner's packet for complete operating instructions.



Figure 2-41. SaniPottie

Pump-Out-Port-a-Potty

Also available as a secondary option is the Port-a-Potty, available as an upgrade to the standard SaniPottie. The unit can be cleaned via a 1-1/2" deck drain that will fit most marinas' pump-out facilities.

Wedge

If your boat is equipped with the Wedge option you will find that the unit has two positions - DOWN or UP. To adjust wedge position, access wedge through the swim platform door. To install in either position follow these steps:

- DOWN - To lower unit, depress spring-loaded pins and lower until you hear Wedge pins engaged.
- UP - To raise unit, reverse procedure until locked in the UP position.

Caution | *Ensure both spring loaded pins are engaged before taking off.*

Warning | *Excessive speeds over 30 MPH could cause adverse handling conditions. It is recommended that you put the Wedge unit in the UP position if you will be traveling over these speeds.*



Figure 2-42. Wedge Down



Figure 2-43. Wedge Up

Scarpa Suppression Plate (SSP)

The Scarpa Suppression plate is an optional add-on feature available for boats built with the Wedge boat bracket installed, used to enhance slalom ski wake characteristics on Response model ski boats. The plate is installed to an existing Wedge bracket.



Figure 2-44. Scarpa Suppression Plate (SSP)

Optional Malibu Launch System (MLS)

The Malibu Launch System (MLS) ballast system allows water to be stored onboard to increase hull weight for larger wakeboard wakes. Depending on model the MLS can be available as front and rear ballast tanks. If your boat is equipped with this feature, locate the MLS drain and fill rocker switch on the dash accessory panel; press switch up to fill, or down to drain.

Chapter 3

OPERATION



Everyone benefits from the safety of others.

Trailer

The trailering information contained in this section describes general guidelines and procedures used by many boaters. We recommend, in addition, that you always follow the specific information provided by the manufacturer of your trailer.

Load Carrying Capacity

The certification label attached by the manufacturer on the left forward side of the trailer will show the maximum load carrying capacity of the trailer. The label is required to show the Gross Vehicle Weight Rating (GVWR), which is the load carrying capacity plus the weight of the trailer itself. Be sure that the total weight of your boat, gear, and trailer does not exceed the GVWR.

Notice: Consult your trailer dealer for other state regulations concerning brakes, lighting, and other equipment options.

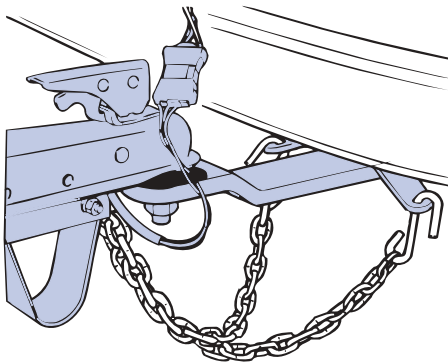


Figure 3-1. Trailer Hitch

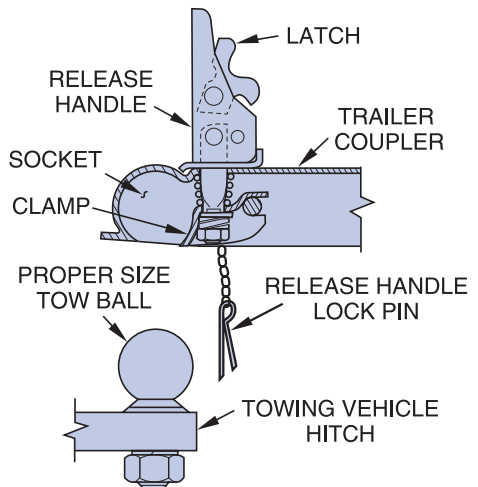
KC-1700

Most boat trailers connect to a ball hitch that is bolted or welded to the towing vehicle. Clamp-on bumper hitches are not recommended.

The trailer hitch coupler must match the size of the hitch ball. Never use a hitch ball that does not match the trailer coupler. The correct ball diameter is marked on the trailer coupler.

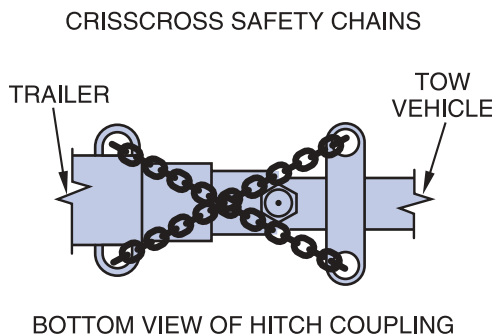
Hitch

Hitches are divided into classes that specify the gross trailer weight (GTW) and maximum tongue weight for each class. Always use a hitch with the same class number as the trailer, or greater.



KC-1651

Safety Chains



KC-1691

Figure 3-2. Safety Chains

Tie-Downs

Making sure your boat is held securely in place on the trailer hull supports is extremely important, especially when underway. Regardless of your trailer make or model, there are two key areas to consider:

- Bow Tie-Downs:** A bow stop to hold the front of your boat in place is located on the winch stand. It should be positioned so that the winch line pulls straight and is parallel to the trailer frame. A separate tie-down should then be attached to hold the boat downward and forward. This may be accomplished by a line from the bow eye to an attachment point on the trailer frame or winch stand.

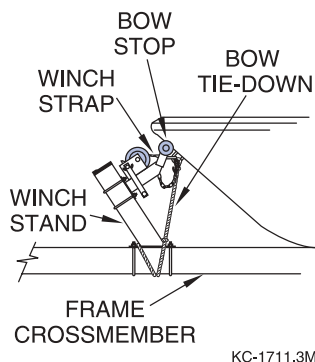


Figure 3-3. Bow Tie-Down

- Rear Tie-Downs:** It is very important to be sure the transom of your boat is resting fully and securely on the supports provided at the rear of the trailer, and that it remains in place when parked or underway. Special rear tie-downs are available for this purpose. Check often to be sure the rear tie-downs are securely locked in place and tight enough to prevent any movement of the boat.



Figure 3-4. Transom Tie-Down

Backing the Trailer

Backing the boat trailer may sometimes be a difficult task. It is recommended that you practice backing the trailer in a vacant lot or open area before attempting it at a congested boat launch.

Follow these basic rules when backing:

- 1) Turn the front vehicle wheels in the opposite direction in which the trailer is to travel.
- 2) Back vehicle normally once the trailer turn is started.
- 3) Have your vehicle equipped with a right hand mirror, as required by law when towing.

Launching

Following are some helpful tips to assist you with launching your boat:

- Before launching, check the type and condition of the ramp. Ramps are usually made of cement but often times are made of asphalt or even sand. When wet, these ramps can get very slick and can cause additional difficulties when launching your boat.
- Have someone assist you when backing your boat. Back the trailer to the edge of the water and stop. Be sure to properly secure your vehicle.
- Prepare for placing the boat in the water by removing any tie-down straps, disconnecting tail light connections, and attaching a line to the bow eye fitting. If you are using an outboard, be sure that the outboard unit is trimmed up. Be sure to re-install the bilge drain plug if it has been removed.
- To launch, back the trailer into the water to a point where the boat will clear the bottom. Stop and secure the vehicle.
- Unlock the winch line from the boat. Push the boat into the water and have your assistant guide the boat with the bow line.
- Once the boat is cleared of the trailer, pull your vehicle out of the water and park it.

Reloading Procedures

To reload, repeat the unloading procedures in reverse. Other important tips to remember are:

- Try to idle coast onto the trailer; do not power onto the trailer.
 - When pulling the boat onto the trailer, be sure the boat is centered as much as possible. The distance between the boat and runner board should be approximately equal on both sides.
 - Make sure the boat is securely in place before moving the trailer.
-

Warning Labels

Warning labels are displayed at various locations throughout your new Malibu to point out safety hazards. It is important that you take the time to locate these labels. Do not remove or cover warning labels. Replace when illegible. Replace when illegible.

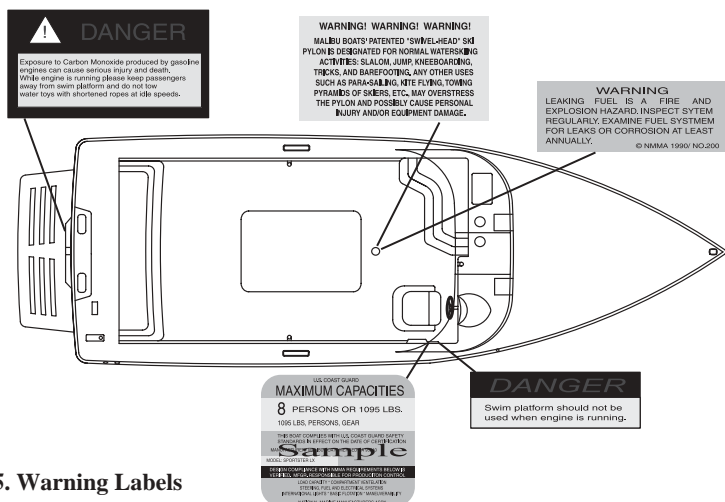


Figure 3-5. Warning Labels

MAL109-16

Load Capacity

The U.S. Coast Guard requires that boats under 20 feet have a certification plate stating the number of persons and maximum weight a boat will handle safely under normal conditions. The certification is attached near the helm forward of the throttle. Overloading is a violation. Do not carry more weight or passengers than indicated on the plate. The presence of the plate does not relieve the owner/operator from responsibility for using common sense and sound judgment.

Caution | *Never exceed the load capacity and distribute weight evenly between bow and stern, and port to starboard.*

Caution | **SWAMPING HAZARD**
Overloading may reduce the stability and seaworthiness of the boat.

- The weight of all persons and gear including ballast bags, water bladders ballast tanks and fat sacks should never exceed the U.S. Coast Guard Maximum Weight Capacity listed on the capacity label.
- When determining the total weight on board, calculate the weight of water at nine pounds per gallon. Be sure to add the weight of the water to the weight of the persons and gear.

Fueling

It is very important to take special precautions to avoid spillage while fueling your boat. Gasoline vapors are heavier than air and will develop in the lower cavities of the boat, such as the bilge.

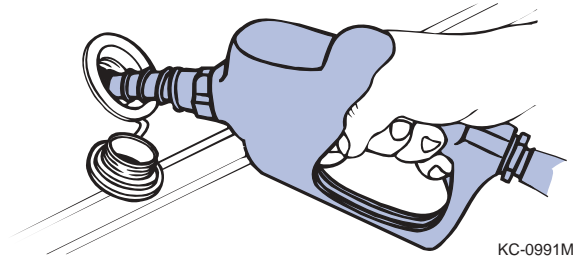
Warning



Do not allow the fuel tank to empty completely during operation. Doing so may damage the fuel pump. Damage from running fuel systems empty is not be covered under standard warranty.

Below is a list of guidelines you should follow when fueling your boat:

- 1) Extinguish all cigarettes and other flame or spark producing items.
- 2) Make sure all power is off, and do not operate any electrical switches.
- 3) Be sure to wipe off any spillage that may have occurred.
- 4) Operate the bilge blower for a minimum of four minutes before starting the engine.



KC-0991M

Figure 3-6 Fueling

Caution

Do not overfill fuel tank. The fuel tank will expand and contract based on weather conditions, and can cause fuel to spill out the fuel exhaust vent. Damaged caused to your boat from leaking fuel due to overfilling is not covered by your warranty.

Starting

Starting procedures will vary depending on the type and model of engine installed in your Malibu. Consult the engine owner's manual for more specific information regarding starting, operation, and troubleshooting for your particular engine.

Pay close attention to the information regarding the break-in period listed in your engine owner's manual. Top engine performance is dependent upon following the guidelines listed.

Pre-Start Checklist

A routine pre-starting procedure should always be carried out before the first start-up of the day. Below is a list of basic, necessary checks to perform before starting your engine.

- 1) Replace drain plugs.
- 2) Check oil and transmission fluid levels.
- 3) Check fuel supply.
- 4) Inspect the engine compartment for water or fuel leaks.
- 5) Operate bilge pump until bilge is dry.
- 6) Operate blower for a minimum of four minutes to expel fumes.

Starting the Engine

Malibu boats are equipped with sensors that constantly monitor various functions of the boat. Certain functions, if outside of pre-determined operating parameters, may activate an alarm located under the dash. When the ignition key is turned ON, the alarm will sound to indicate it is operating. Once the engine is running, the alarm should be off unless a problem is detected. If the alarm sounds during operation, stop the boat as soon as possible and turn off the engine. Investigate and correct the problem before returning to operation. Pressing the up arrow of the DISPLAY rocker switch will temporarily silence the alarm. Following is a list of monitored functions that can activate the alarm:

Engine Oil Alarm:

- RPM's above 300 and below 1000 with oil pressure below 4 psi.
- RPM's above 1000 with oil pressure below 18 psi.

Engine Temperature Alarm:

- RPM's above 300 with temperature above 203°. Alarm will reset when engine cools below 198°.

Battery Voltage Alarm:

- Voltage drops below 11 volts.
- Voltage is above 16 volts.

Fuel Level Alarm:

- Fuel level drops below 1/8 of the total fuel tank level.

Water Depth Alarm:

- Water is shallower than water depth alarm setting.

Refer to Section 4, Maintenance, Electrical, for more information on the alarm. Please refer to your engine owner's manual for the proper starting procedures.

Shifting/Running

The throttle lever is located to the right of the driver. When the throttle is vertical, it is in the “NEUTRAL” position.

Located at the base of the throttle you will find the shift lock. Pulling outward on this button disengages the transmission, thereby allowing for use of the throttle without engaging the transmission. This is needed for starting or warm-up of the engine. Be sure to position the throttle vertically (in neutral) before re-engaging the transmission by depressing the button.

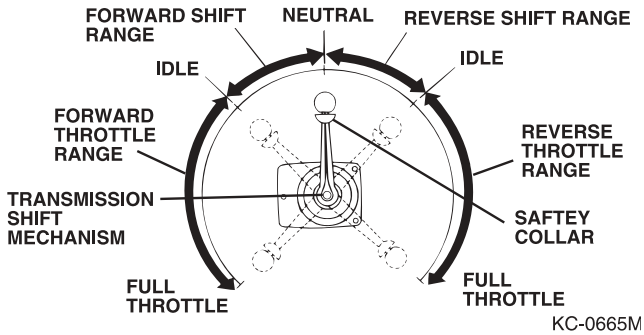


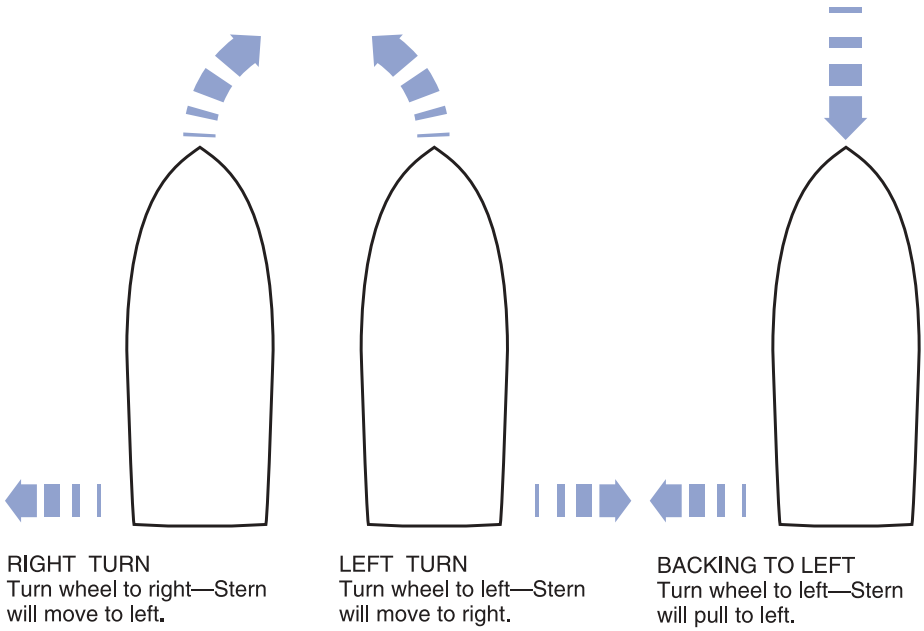
Figure 3-7. Throttle Positions

When engaging the transmission from neutral to either forward or reverse, you must pull up on the safety collar located directly below the throttle lever knob.

Notice: For more information regarding the safe operation and maintenance of the throttle control, refer to the separate instructions located in the information packet shipped with your boat.

Steering

It is important that you get the “feel” of your boat’s steering system. Turn the wheel from full left to full right, and make sure the rudder is turning accordingly. The system should operate freely and smoothly.



KC-1071R

Figure 3-8. Turning With A Rudder

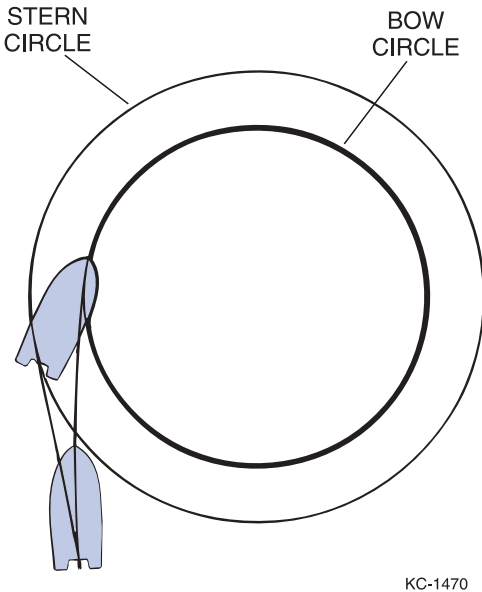


Warning | *The steering system must be in good operating condition for safe boat operation. Frequent inspection, lubrication, and adjustment by your dealer is recommended.*

All boats have a tendency to wander somewhat at slow speeds. A natural reaction to this effect is to steer the boat back and forth in an attempt to compensate for wandering. Invariably, the compensation will result in oversteer and only worsen the effect. Keep the steering wheel in the center position, the boat will wander back and forth somewhat, but the overall course will be a straight one.

Maneuvering Techniques

Steering response depends on three factors: engine position, motion and throttle.



Like an automobile, high speed maneuvering is relatively easy and takes little practice to learn. Slow speed maneuvering, on the other hand, is far more difficult and requires time and practice to master.

When making tight maneuvers, it is important to understand the effects of turning. Since both thrust and steering are at the stern of the boat, the stern will push away from the direction of the turn. The bow follows a smaller turning circle than the stern.

The effects of unequal propeller thrust, wind, and current must also be kept in mind. While wind and current may not always be present, an experienced boater will use them to his advantage. Unequal thrust is an

Figure 3-9. Stern Push

aspect shared by all single engine propeller-driven watercraft. A clockwise rotation propeller tends to cause the boat, steering in the straight ahead position, to drift to starboard when going forward, and to port when going backward. At high speed, this effect is usually unnoticed, but at slow speed; especially during backing, it can be powerful. For this reason, many veteran boaters approach the dock with the port side of the boat toward the dock, if possible.

Stopping

When stopping the boat, it is important to remember there are no brakes to allow coming to a complete, immediate stop. To stop your boat, anticipate ahead of time and begin slowing down by pulling back on the throttle.

Once the throttle is in neutral and the engine has stopped pulling the boat forward, it may be necessary to pull the throttle into reverse to further slow the forward momentum of the boat. The reverse thrust of the engine will decrease the forward speed and slow the boat down to a safer maneuvering speed.

Warning



Do not use the engine stop switch for normal shut down. Doing so may impair your ability to re-start the engine quickly or may create a hazardous swamping condition.

Docking

Docking procedures for the new boat owner usually bring surprising results. Remember, operate your boat at slow speeds to avoid accidents and practice docking to gain experience and confidence.

Once away from the dock, practice docking in open water with an imaginary dock. Pull up to the dock at a slow rate of speed. Shift the boat into neutral and drift slowly toward the dock. Shift the boat into reverse slightly to slow or stop the boat altogether.

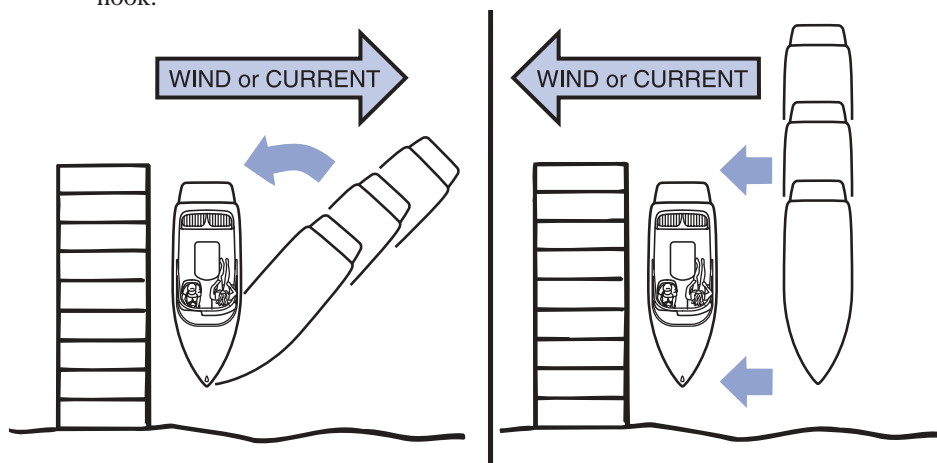
Warning



Never use your hand, arm or other part of your body to attempt to keep the boat from hitting the dock. The boat could push against the dock, causing severe injury.

Follow these guidelines when docking:

- Approach docks with the starboard side of the boat if possible.
- Come to a stop a short distance from the dock, then proceed slowly.
- Have fenders, mooring lines and crew ready.
- Observe how the wind and current are moving your boat. Approach the dock with the boat pointed into the wind, if possible. If the wind or current is pushing you away from the dock, use a sharper angle of approach. If you must approach the dock downwind or down current, use a slow speed and shallow angle. Be ready to reverse to stop and maintain position.
- If there is no wind or current, approach the dock at a 10 to 20 degree angle.
- If possible, throw a line to a person on the dock and have that person secure a bow line.
- With the bow secure, swing the stern in with the engine, or pull it in with a boat hook.



KCB-008

Figure 3-10. Docking With Wind/Current

Before tying up the boat, be sure to use enough fenders to protect the boat from damage. If possible, tie up with the bow toward the waves with a good quality double-braided nylon line. Tie up only to the lifting or tie-down eyes; never use the handrails or windshield frames. If the boat is to be moored for a long period of time, use chafing protectors on lines to protect the gelcoat finish. Leave a little slack in the lines to allow for some wave movement or tidal action if applicable.

Follow these guidelines when departing:

- Very slowly shift into forward at idle speed.
- When the stern moves away from the dock, turn the engine away from the dock.
- Cast off bow line and back away.

If the wind or current is pushing away from the dock, cast off all lines and allow to drift until you are clear.

High Speed Operation

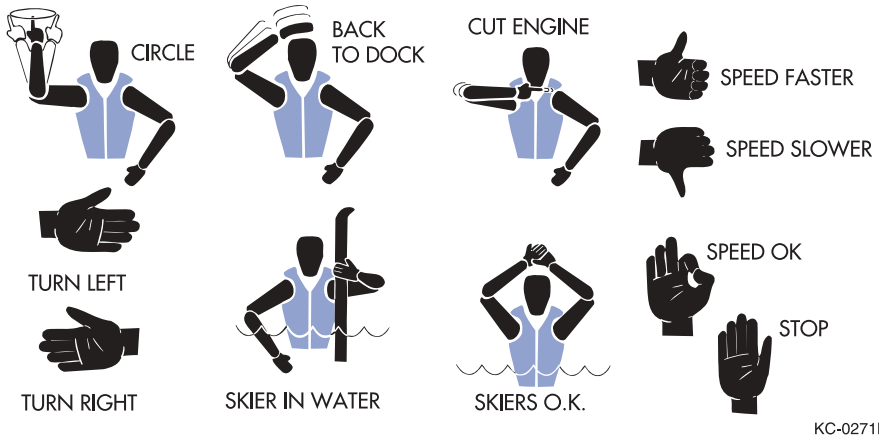
A great deal of caution must be exercised when operating any boat at high speeds. This is particularly true during turns. Gradual turns can be completed at high speed by a competent driver, but it must be emphasized that sudden turns at any speed, particularly at high speed can be especially dangerous. It is possible to throw passengers from their seats and even from the boat if caution is not exercised.

Towing A Skier

Water skiing is a collective effort involving driver, observer and skier. The degree of understanding and cooperation between them directly determines the success and enjoyment of the venture. All must understand that the skier is an extension of the boat. The driver is no longer responsible for a boat that is 20 feet long, but closer to 95 feet. Once this is understood, you are underway to a safe and secure adventure together. A healthy respect for Common Sense Rules of waterskiing safety on the part of the skier, driver and observer will ensure the risk of skiing accidents is kept to a minimum at all levels of participation.

A moderate ability to swim is advisable for waterskiers, but swimming ability is no substitute for a well-fitting life jacket. The wearing of a life jacket or personal flotation device (PFD) is essential even for expert swimmers. The jacket should be Type III, approved by the U.S. Coast Guard and designated as a ski jacket. The jacket should fit snugly, otherwise it could slip up over the skier if the skier should happen to fall at high speed.

Communication between the skier and driver is essential. Standard signals have been developed by the American Waterski Association and have been accepted by most waterskiers. Once the skier is in the water and ready, the driver of the boat will take the slack out of the tow line. When the skier is in position and prepared for lift, the skier shouts “hit it” which is the signal for the driver to open the throttle for take-off. Once the skier is on plane, there are a number of hand signals that will allow communication between the skier and the driver of the boat. A copy of these signals can be found for review at your local Malibu dealership or by contacting the American Waterski Association at (813) 324-4341.



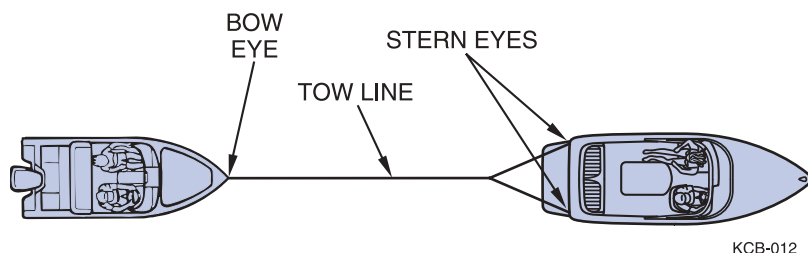
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Figure 3-11. Hand Signals

Once a skier has fallen or is ready to quit skiing, the driver must be prepared for immediate removal of the skier from the water. The driver of the boat should keep the skier in line of sight as much as possible until the skier is reached. Once the boat is up to the skier, the driver should always turn off the engine until the skier is onboard. There should be no exception to this rule as there is always the possibility of the skier slipping or falling back into the water risking contact with the boat propeller.

Towing Another Boat

Towing is normally a last resort because damage can be created by stress from the towing lines or uncontrollability of the boat being towed. Only when ideal conditions arise — lake is calm, the disabled boat is smaller than yours, and both boat operators know correct technique — should a recreational boat be towed by another.



KCB-012

Figure 3-12. Towing

Because the towing boat is the maneuverable boat and the grounded boat is not, you should pass the tow line to the grounded boat. Use double-braided line. Never use three strand twisted nylon; it has too much elasticity and can snap back dangerously. Fasten the towline as far forward as possible on the upwind or up current side of the boat being towed. Fastening it to the stern will restrict maneuverability. Attach the line to the stern lifting eyes of the towing boat. Keep lines free of propellers on both boats. Keep hands and feet clear of other boat and never hold towline after it is pulled taut.

Move slowly to prevent sudden strain on slack line.

Be ready to cast loose or cut the line if conditions become hazardous.

Anchoring

There are many types of anchors available on the market. The choice on which one to choose depends on the usage. Contact your dealer on what anchor would suite your situation.

Warning | *Always anchor from the bow of the boat. The boat has less chance of breaking free if a heavy wind comes.*



Propellers

Nothing is more important to the proper performance of your boat than the condition of the propeller. Even slight propeller damage can mean the loss of one MPH. Greater damage can mean considerably more speed loss. Worse yet, damage usually is not done to each blade uniformly and, therefore, sets up imbalanced vibrations that can cause fatigue damage to other parts of the engine or drive system.

Your propeller is custom calibrated for your Malibu by our Research and Design team to give maximum performance. Before installing props other than those suggested by Malibu contact your dealer, otherwise adverse handling and top speed characteristics may be experienced.

The prop is identified by two numbers, i.e., 13 x 14, and material identification such as brass or stainless steel. The first number is the diameter of the prop and the second is the pitch. The pitch is the angle of the blades and is measured in how far the boat will travel through the water in one revolution. In this case, for every one revolution the boat will travel 14 inches.

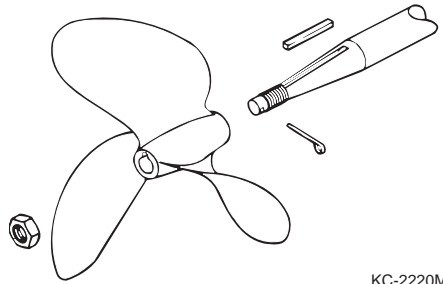


Figure 3-13. Propeller

KC-2220M

Warning



Do not operate engine above the manufacturer's recommended RPM rating; severe damage could result, voiding the warranty.

At least once a year, more often if you use your boat extensively, you should have your local Malibu dealer inspect the propeller for any possible damage.

At least once a month, if you use your boat regularly, you should check and tighten the prop nut. If it is necessary to remove the prop, use care. If the prop is not removed correctly, damage could result if it comes off the shaft too quickly and hits the ground. Whenever possible, use a prop pulling tool to remove prop, this will reduce the chance of damaging the prop.

Malibu Exclusive Adjustable Rudder System

Your Malibu steering is custom calibrated at the Malibu factory at the time of manufacturing. However, it may be necessary from time to time to adjust the steering due to normal operations. Malibu Boats' unique adjustment feature allows custom calibration to your specific driving needs. The Malibu Adjustable Rudder system allows you to increase or decrease the amount of load that is typically on the steering system.

If it is determined that your rudder needs adjustment, you can do so by adjusting tunable feature located on the rudder surface. Locate the 1/8" set-screws. Loosening the set-screws will release the adjustment tab. If your boat pulls to the right, turn the tab to the right 1/8th to 1/4". Do not move beyond this point. Only minor adjustments are needed to make a correction. Note that it may take more than one adjustment to get the desired setting. Tighten the set-screws when adjustment is completed.



Figure 3-14. Adjustable Rudder

Warning

Make sure the set-screws are tightened after each adjustment. Failure to tighten the set-screws could cause erratic steering and serious damage could result. If you are unsure of the correct procedure to conduct this adjustment, it is recommended that you return your boat to your local Malibu Boat dealership for assistance.

Corrosion Protection

Galvanic corrosion (electrolysis), is the break-up of metals due to the effects of electrolytic action. When two dissimilar metals are immersed in a conductive fluid such as salt water, an electric current is produced, similar to that of a battery. As the current flows, it takes with it tiny bits of the softer metal. If not stopped, a great deal of damage can occur.

If you operate your boat in salt or brackish waters, you should have your boat equipped with a transom mounted zinc anode to prevent damage to the parts coming in contact with the water. The zinc anode being the softer metal will deteriorate and erode much faster than the other metals in the boat. Inspect the anode periodically and replace as needed. Consult your local Malibu dealer for this part.

Salt Water Corrosion

The entire boat should be rinsed with fresh water immediately after use in salt water. If the boat is used primarily in salt water, wash the hull monthly and apply corrosion inhibitor to all hardware. See your dealer for products suitable for the marine salt-water environment. Fresh water internal flushing is recommended when used in salt, polluted or brackish waters. Flush the entire cooling system with fresh water for at least five minutes after use in these waters. See your Malibu dealer for appropriate flushing devices.

Notice: **Salt water is commonly very harsh on all components of boat. Salt water corrosion is not covered under your Malibu Boat or Indmar warranties. It is the boat owner's responsibility to understand and ensure they have taken proper precautions to safeguard boat.**

Chapter 4

CARE AND MAINTENANCE



The following guidelines discussed in this section will protect the investment you have made by preserving the beauty and performance of your new boat for years to come.

Interior

Carpet

Your Malibu boat is equipped with a top quality, all-weather indoor/outdoor carpet. It is essentially waterproof and fade resistant. Occasional vacuuming and scrubbing with soap and water will remove embedded dirt and grit.

Vinyl

All upholstery items aboard your boat are made of a tough marine vinyl that is easily cleaned with a mild detergent and warm water. After washing the vinyl, be sure to dry it thoroughly.

Our materials are mildew resistant, but there are no products available to us that are mildew proof. Therefore, we also recommend that you dry the upholstery thoroughly at the end of each day's boating activity to prevent mildew which will rot the upholstery threads and backing. We also recommend that you tip up all seat base cushions on edge after each use to allow any accumulated water to drain.

Warning



In some instances, color or dye transfer can occur when wet clothing comes in contact with vinyl. If this occurs, the vinyl should be cleaned immediately to avoid permanent staining. Unfortunately, due to the porous nature of the upholstery, you may find that the dye has set into the vinyl surface, and you cannot remove it. If this should occur, it is recommended that you contact Final Finish/MSG to get assistance in cleaning.

Upholstery finish stains caused by secondary sources are not covered under your Malibu Boats Warranty.

Exterior

Your Malibu boat is highly resistant to weathering, water pollution, and minor scrapes which occur during normal use. However, regular care and maintenance of your boat is a general responsibility for all Malibu boat owners. By following the boat care instructions listed below, you will be able to extend the life and beauty of your Malibu boat.

Fiberglass and Gelcoat

The fiberglass hull and deck of your Malibu boat consist of a molded shell and exterior gelcoat. The gelcoat protects the fiberglass shell and gives all Malibu boats a smooth and shiny surface. The following are some general instructions which will help you maintain your boat's sleek appearance:

- 1) Wash monthly or more frequently, depending on use. Use a mild dish washing soap and lukewarm or cold water. Rinse your boat with fresh water and wipe down immediately to avoid water spots.
- 2) Wax the boat hull and deck after every three or four outings to decrease water friction and to lessen the potential for staining or spotting the gelcoat surface. In cases where the original gelcoat shine cannot be restored by waxing, hand buff the surface using any commercial compound. Be sure to apply several coats of wax over the area that has been polished.

Surface Stains

Stains can appear as a result of dust, road tar, plant sap, rust from metal fittings, and other materials coming in contact with your boat's exterior. Listed below is a step-by-step procedure to remove stains from your boat:

- 1) Wash area with dish washing soap
- 2) Apply a mild cleanser on a small area (3 x 3 feet)
- 3) Rinse with fresh water
- 4) Buff with a fine rubbing compound
- 5) Wax

If the stain is not removed by the dish washing soap or mild cleanser, then the next procedure is to use either denatured or rubbing alcohol. Common rubbing alcohol is excellent for removing stains.

Scratches

Scratches to the gelcoat sometimes occur during normal use. Your dealer can usually restore the gelcoat to like-new condition.

Underwater Corrosion

Corrosion occurs in saltwater conditions from the interaction of the saltwater and the direct current of the battery. To prevent corrosion, it is important to keep the bilge area as dry and clean as possible.

Care For Boats That Are Moored

Due to gelcoat discoloration, osmosis (blistering), and algae growth, it is not recommended that you leave your boat moored for long periods of time. If your boat will be moored in fresh water or saltwater for extended periods of time, you should do the following:

- 1) Haul-out and clean your boat regularly (every 14 to 21 days). Use soap, water, and plenty of elbow grease.
- 2) Apply wax after cleaning.

You should also check with your local Malibu dealer about anti-fouling paint and other products that can be applied to the hull bottom below the water line.

Teak Wood

Care must be taken to keep teak wood from turning gray or rough. The roughing becomes more apparent as the moisture evaporates and dries out.

It is suggested that you use teak or mineral oil treatments at least four times a year to maintain the appearance of your swim platform. Use a high quality teak oil which can be purchased at your local Malibu dealership.

For additional information on care, maintenance, and warranty on your swim platform, please see the information provided in your Owners Packet.

Notice: Teak wood should never be varnished.

Engine/Drive Train

Engine

For information on engine service, maintenance, and break-in period, please refer to your engine owner's manual. The Required Maintenance Schedule included in this manual covers the minimum maintenance required for Indmar engine packages. The Maintenance Worksheet included in this manual outlines safety checks, lubrication, and general service that should be performed at regular intervals. It is recommended that any engine replacement parts used for maintenance or repair be supplied by an authorized Malibu dealer.

Engine Specifications

2006 Malibu Engines				
Engine Models	5.7L Carbureted	5.7L MPI	Hammerhead 383	8.1L MPI
Number of Cylinders	V-8			
Displacement	350 CID (5.7L)		383 CID (6.2L)	496 CID (8.1L)
Bore/Stroke	4.0012 x 3.480 in. (101.63 x 88.39 mm)		4.0012 x 3.8 in. (101.63 x 96.52 mm)	4.25 x 4.37 in. (108 x 111 mm)
Compression Ratio	9.4:1		9.7:1	9.1:1
Compression Pressure (Note 1)	Minimum 100 PSI (690 kPa)			
Idle RPM in Neutral (Note 2)	650 ± 50 RPM			
Operating Range at WOT	4400-4800 RPM	4600-5200 RPM		5000-5400 RPM
Oil Pressure at Idle	4 PSI (41 kPa) Minimum Hot			5 PSI (34 kPa) Min
Oil Pressure at 2000 RPM	18 PSI (124 kPa) Minimum Hot			10 PSI (69 kPa) Min
Oil Filter	Pennzoil PZ3, AC-PF25			AC-PF454 (on engine) Pennzoil PZ3 (remote)
Fuel Pump Pressure	8 PSI Max (55.2 kPa)	60 PSI Min at Keyup (414 kPa)		
Electrical System	12 Volt DC Negative (-) Ground			
Minimum Battery Requirements	650 cca/700 mca/120Ah			
Firing Order	1-8-4-3-6-5-7-2			
Spark Plug Type	AC 41-932			AC 41-983
Spark Plug Gap	.030 in. (.76 mm)	.060 in. (1.5 mm)		
Base Timing at 1000 RPM (Note 3)	10 Degrees BTDC	Non Adjustable		
Thermostat	160 Degrees F (71 Degrees C)			
Fluid Capacities				
Crankcase (With Filter) (Note 4)	5.5 Quarts (5.25 L) With Filter			8 Quarts (7.6 L)
Closed Cooling System (Note 5)	12-14 Quarts (11.4-13.3 L)			14-16 Quarts (13.2-15.1 L)
In-Line 1:1 Transmission (Note 4)	1.7 Quarts (1.6 L) Dexron 3 ATF			4.2 Quarts (4L) 15W40
In-Line Reduction Gear (Note 4)	2.12 Quarts (2L) Pennzoil 15W40			4.2 Quarts (4L) 15W40
ZF Ski Vee Transmission (Note 4)	2.12 Quarts (2L) Main Gearbox, 1.0 Quart (1.06L) V-drive - Dexron 3			
ZF V-Drive Transmission (Note 4)	4.2 Quarts (4L) Pennzoil 15W40			
Walter V-Drive	.5 Quart (.5L) Pennzoil SAE 30 Motor Oil			

Notes

- 1) Minimum recorded compression in any one cylinder should not be less than 70% of the highest recorded cylinder.
- 2) Measured using an accurate shop tachometer at normal operating temperature. Idle RPM on EFI models is not adjustable.
- 3) Timing must be set using special procedures indicated in the appropriate service manual. Timing cannot be set using conventional methods. Special tool(s) required.
- 4) Always use dipstick to determine exact quantity of oil required. Do not fill above "FULL" mark.
- 5) Do not over fill. Correct level is at the "Full Cold" mark on the coolant recovery bottle when coolant is cold.

Transmission

Check fluid only with engine OFF and boat floating level, or level on trailer. The transmission dipstick is located on the top of the transmission. Dipsticks may be marked “FULL” or “H” (high) and “ADD” or “L” (low); maintain fluid level between the two marks.

Caution | *Check level immediately after turning engine off. Transmission fluid may be hot. Be careful not to burn yourself.*

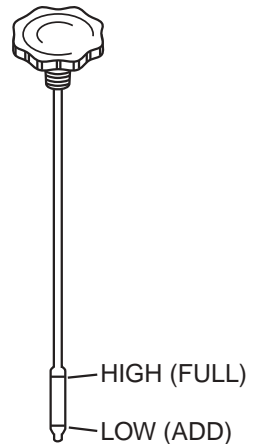
TRANSMISSION	MODEL	CAPACITY	FLUID TYPE
ZF Hurth In-Line	450D	1.7 qt (1.6L)	Pennzoil Dexron II, III or MERCON
ZF Hurth In-Line	450A	2.12 qt (2L)	Pennzoil Dexron II, III or MERCON
ZF Hurth In-Line	630A	4.2 qt (4L)	Pennzoil Dexron II, III or MERCON
ZF Hurth V-Drive	630V	4.2 qt (4L)	Pennzoil Dexron II, III or MERCON
Walters V-Drive	RV-26D-71V	0.5 qt (0.5L)	Pennzoil SAE 30 Motor Oil

Caution | *Do not overfill the transmission. Overfilling can damage the transmission. Damage to your transmission due to too much or too little fluid is not covered by your warranty.*

Operate boat approximately five minutes to warm the transmission fluid. Turn engine off and disconnect the engine safety switch. Ensure throttle is neutral.

Notice: Check immediately after shutdown to prevent incorrect reading.

- Open engine compartment and locate transmission fluid level dipstick.
- Remove dipstick and wipe with a clean rag. Quickly re-insert the dipstick fully and immediately remove. Check the fluid level is at the full warm mark on the stick.
- Add or remove fluid as necessary to maintain the level at the mark. Use only recommended automotive transmission fluid. You will find recommended fluid types in your Indmar Owner’s Manual.



KC-2175

Figure 4-1. Typical Transmission Dipstick

Rudder Stuffing Box

The rudder stuffing box has a grease nipple and should be checked and lubricated annually. The rudder stuffing box is accessed through the rear center access panel directly below the fuel tank on direct drive models, and below the engine on V-drive models. Use only a marine grade, waterproof grease.

Shaft Packing

Located in the bilge, under the rear center access panel, is the shaft packing. The shaft packing is a seal where the prop shaft goes through the hull of the boat. This seal should be checked and tightened periodically. Please note that it is normal for a small amount of leakage to occur from this seal. It should leak at the rate of about one drop every ten seconds.

Prop Shaft/Engine Alignment

As per Indmar's recommended routine service maintenance, it is necessary to regularly evaluate the prop shaft coupler bolts that attach the prop shaft to the engine. See Indmar Owner's Manual for proper prop shaft alignment. If the prop shaft bolts loosen prematurely, major damage to your boat structure and driveline could result. It is recommended that only a trained service technician perform this maintenance due to the complications that can arise from an improperly balanced prop shaft engine alignment.

Warning



Damaged caused from loosened coupler bolts and improper engine alignment is not covered under your Malibu Boats warranty, and should be part of the owner's service responsibilities to ensure system is correct. See Malibu Boats and Indmar Owner's Manuals for appropriate timelines for evaluation or checkup.

Optional Drip Less Shaft Packing

The optional drip less shaft packing provides drip-free use of your prop shaft coupling and will require minimal maintenance to keep the system trouble-free. Grease fitting annually, and ensure water flow tube is free from obstruction. The system uses lake water from the engine to assist in cooling. If the cooling hose is removed, water can enter the bilge area of the boat while the engine is running.



Figure 4-2. Drip Less Shaft Packing

Fuel System

Fuel Filter

Your boat is equipped with a 1/2" in-line fuel filter located 6 to 12 inches from the fuel tank. The filter removes debris from the fuel being sent to the engine. The filter should be changed after each season of boat use. Often, fuel from lake Marinas will have a considerable amount of debris and can eventually cause your engine to run erratically. See your local Malibu Dealer for servicing.

Hoses

Fuel lines, vent hoses, and drain hoses should be checked frequently for leaks. If this is occurring around the fitting, tightening of the hose clamps may be all that is necessary. However, if the leak continues, replace the hose immediately to prevent a build-up of fluids or gases. Surface cracking on hoses indicates wear, and replacement is recommended. Use fuel system parts certified for marine use only. Do not substitute with automotive parts.

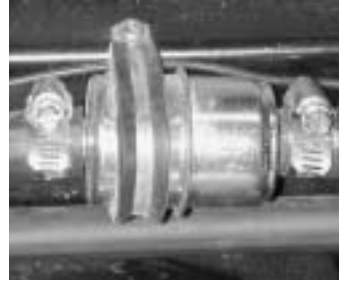


Figure 4-3. In-Line Fuel Filter

Electrical

Engine Circuit Breaker

Your engine is equipped with a 50 Amp Circuit Breaker to protect the engine electrical system and components from overload, and is found on the lower right side of the engine. If your engine should lose power and will not crank, reset the breaker by firmly pressing the red button (an audible sound will be heard). For additional engine electrical issues, see your Indmar Engine Owners Manual, or contact your Local Malibu dealership.

Main Circuit Breaker

Located adjacent to the battery is a 60 AMP Circuit Breaker. If your boat's systems lose electrical power, and you have no dash gauges or your engine does not turn over, you will need to reset the breaker to restore power to your boat's systems. To reset, find breaker switch and depress until lever locks into position.



Figure 4-4. Main Circuit Breaker

Warning



Power loss to the Main Breaker is an indication of serious issues to your boat's electrical and/or engine components. Contact your local dealer for evaluation of these components.

Caution

If additional loads are added to the dash feeder circuits, such as amplifiers, tower lights, etc., this can overload the 60 AMP breaker. Large loads over 30 AMPS should be wired directly to the battery with proper overload protection.

Boat Alarms

Malibu boats are equipped with sensors that constantly monitor various functions of the boat. Certain functions, if outside of pre-determined operating parameters, may activate an alarm located under the dash. Both the engine Electronic Control Module (ECM) and the dash gauge computer may activate the alarm.

If the ECM activates the alarm, it will store a trouble code in memory. Stop the boat as soon as possible and turn off the engine. You will need to have your Malibu dealer run a diagnostics test to repair the engine and clear any codes from memory. The ECM uses the engine oil pressure, engine temperature and transmission temperature switches for input and parameters are stored in the ECM.

If the dash gauge computer activates the alarm, the Multi Function Display Panel will indicate the source of the problem. If the alarm sounds during operation, stop the boat as soon as possible and turn off the engine. You will need to have your Malibu dealer run a diagnostics test to repair the engine and clear any codes from memory. The dash gauge computer uses a separate set of sending units on the engine, fuel tank and depth transducer for input and parameters are stored in the computer.

Refer to Section 3, Operation, Starting, for more information on the alarm.

Battery

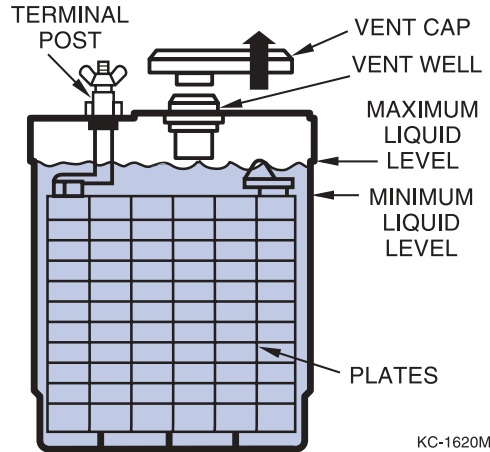
Your Malibu boat is equipped with a standard 12-volt battery. The battery comes with a non-metallic box to help contain spills and prevent corrosion.

Warning



Do not connect battery cables to incorrect Terminal Post ±. Doing so may cause a reverse polarity

current to run through your electrical system and cause damage to your engine and other electrical components. Damage done to your boat due to incorrect terminal placement is not covered under your Malibu warranty.



KC-1620M

Figure 4-5. Battery Level

Check your battery terminals frequently for corrosion and tightness. Clean terminals with a baking soda and water solution and a wire brush. Also, check the fluid levels in the cells. Usually, a level approximately 1/4 to 1/2 inch above the plates is sufficient. If needed, fill with distilled water. Some batteries are sealed and this process is not necessary. Read directions when applicable.

Battery Isolator Switch

This option provides the ability to isolate the boat batteries if more than one battery is used. If so equipped, the isolator switch is located behind the front observer's seat under the dash next to the battery. Under normal situations, the switch should be in "POSITION 1" or "POSITION 2" rather than in the "ALL" position. This will keep one battery charged should one of the batteries fail.

Circuit Breakers and Fuses

Most electrical standard equipment devices are controlled with circuit breakers. These breakers will activate if overloaded and cut power to the switch. To restore power, simply push the breaker button in and release. Breakers do not require fuse replacement. The breaker panel can be found under the dash next to the 12-volt adapter. The stereo, if so equipped, has an inline fuse. If your stereo should quit working, check fuse as well as the breaker.

12-Volt DC Accessory Outlets

All models except Sportster and Flightcraft are equipped with two 12-volt DC Accessory Outlets; one on the electrical panel below the dash, and one in the glove box. These outlets provide power from your boat battery to accessory equipment such as cellular phones, video cameras, marine spot lights, etc. Sportster and Flightcraft models do not have the extra glove box outlet.

Miscellaneous

Hardware

Most of the metal hardware on your boat consists of brass, stainless steel, or aluminum and should be cleaned on a periodic basis with soap and water. In fresh water, metal fittings and hardware should be sprayed annually with a rust inhibitor such as WD-40, and every two or three months in saltwater.

Bilge

The bilge of your boat can accumulate oil and greasy dirt over a period of time and should be cleaned out periodically. Usually, ordinary soap and water does not remove the accumulation and something stronger will be needed. Check with your Malibu dealer for recommendations.

Windows and Windshields

The windows and windshields on your Malibu boat are made of tempered safety glass and are similar to the windows in your car. The glass will scratch however, and abrasive cleaners should not be used to clean your windows. Soap and water or automotive glass cleaners may be used.

Winterizing

When the boating and ski season comes to an end, it is recommended that the boat be removed from the water and stored. It is extremely important that proper winterizing procedures are read and followed to ensure longer boat life. Here is our list of suggestions to keep your boat in top condition:

- Prepare the engine according to the instructions found in your engine owner's manual. It our recommendation that you contact your local Malibu dealer for full winterization procedures.
- Clean and dry the boat interior and exterior thoroughly. Inspect boat hull for residue and remove any if present.
- Clean the bilge area thoroughly and operate the bilge pump to remove any water from bilge lines.
- Remove all seat cushions and open all storage areas. Store the seat cushions in a cool and dry place.
- Cover the boat and store it in a garage or other protected facility.
- If the boat is stored on a trailer, you should block the trailer wheels.

Storage and Winter Lay-up

Due to the problems that can occur from improper winterization, we recommend that you take your boat to a certified Malibu dealership to perform this task. Without proper preparation, storage for long periods of time may cause parts of the engine and transmission to rust due to lack of lubrication. Also, if your boat will be stored in freezing conditions, water inside these components to include cooling system, heater and shower could result in major damage to your boat. Damage done due to improper winter storage will void your warranty. Here is our list of suggestions to keep your boat in top condition.

Prior to boat being removed from water:

- Fill fuel and add 1 ounce of **STA-BIL®** fuel stabilizer for each 5 quarts of gasoline.
- Operate boat for at least 15 minutes in water or using a flush system to allow treated fuel to flush engine.
- Add lightweight engine oil (SAE-10 or fogging oil) slowly to the engine while engine is slightly above idle. Turn engine off. Consult your local dealer for correct procedure.

To be completed when boat is put on trailer or resting cradle:

- Remove bilge T-handle and transom drain plug immediately after removing from the water.
- Clean and dry the boat interior and exterior thoroughly. Inspect boat hull for residue and remove if present.
- Clean bilge area thoroughly and operate the bilge pump to remove any water from bilge lines.
- Remove all seat cushions and open all storage areas. Store the seat cushions in a cool dry place.
- Apply coat of wax to entire surface of boat.
- Flush engine-cooling system with clean water. Do not exceed 1500 RPM while flushing for 5-10 minutes.
- Turn fuel supply line to the OFF position (handle perpendicular to fuel line). Perform annual scheduled maintenance. Refer to engine owner's manual for complete engine winterization procedures as well as scheduled maintenance.

Note: Damage done due to improper engine winter storage will void your warranty. It is highly suggested that you allow a trained Malibu technician to perform this service.

- After performing engine winterization, remove engine safety switch and spin engine over a few seconds to remove excess water found in pump bodies.
 - Remove the negative cable from battery. Charge battery to full charge and remove from boat.
 - Clean all traces of dirt, oil and grease from engine, transmission and bilge. Coat all areas on transmission and engine where paint has been removed with touchup paint.
 - Use duct tape to seal the exhaust flaps closed to prevent dirt and rodents from entering exhaust.
 - Remove propeller assembly, and store in safe place.
 - If your boat is equipped with an optional heater or hot-water shower, remove both hoses and blow through hose to remove excess water.
 - Cover the boat with cover, tarp or, if available, shrink-wrap tarp. Also, due to the excess weight that can occur from rain and snow for boats that are stored outside, it is suggested that you make a support of two inch PVC piping that can be mounted under the covering material. The rounded PVC piping will ensure the cover does not tear and will eliminate pooling water inside boat.
-

Winterization Re-Commission

- Remove boat cover or shrink-wrap from boat.
- Remove Duct tape from exhaust flaps.
- Charge and install battery in boat. Follow all safety precautions associated with changing batteries.
- De-winterize engine using engine manufacturer's specifications.
- Check propeller shaft alignment. Tighten coupling hardware.
- Check engine compartment for nesting animals. Clean as needed.
- Reinstall seat cushions from storage.
- Check entire engine for signs of cracks caused by freeze damage. Check all hose clamps for tightness. Install bilge drain plugs: transom, T-handle plug and ski locker drain plug.
- Reinstall propeller assembly.
- If not performed during winterization, perform annual maintenance at this time.
- If boat is equipped with optional fresh-water cooling, and was drained at winterization, fill at this time.
- Turn fuel shut-off valve to the On position. (Handle is in line or parallel with the fuel line.) Turn key on and off 2-3 times to allow fuel to return to engine, then start engine. When engine starts, watch gauges closely, and watch for abnormal readings.

Troubleshooting

The following charts will assist you in finding and correcting minor mechanical and electrical problems with your boat. Problems are listed in the order of the most likely event to the least likely.

To correct a problem, first determine what the problem is. Start with the first cause and eliminate the possibility of each until the problem is corrected. Because of the specialized skills and tools needed to correct major issues, we have not included that information. If you suspect a problem not listed here, please contact your Malibu dealer.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine will not turn over	<ul style="list-style-type: none"> • Throttle control in gear. • Main circuit breaker open. 	<ul style="list-style-type: none"> • Shift into neutral. • Reset circuit breaker.
Engine turns over, but will not start	<ul style="list-style-type: none"> • Safety lanyard not connected. • Stop switch not set. • No fuel to engine. • No fuel in tanks. • Fuel filter clogged. • Contaminated fuel. • Distributor problems. 	<ul style="list-style-type: none"> • Connect safety lanyard. • Reset switch. • Turn fuel valve to ON. • Fill fuel tank. • Replace fuel filter. • Replace fuel and filter. • See your dealer.
Engine is hard to start	<ul style="list-style-type: none"> • Flooded engine. • Plugged flame arrestor. • Fouled spark plugs. • Loose coil or ignition wires. • Battery cables loose or corroded. • Weak battery. • Ignition problems. 	<ul style="list-style-type: none"> • Start engine full throttle and back off. • Clean flame arrestor. • Replace spark plugs. • Tighten coil or ignition wires. • Clean and tighten battery cables. • Charge or replace the battery. • See your dealer.
Engine misses or idles rough	<ul style="list-style-type: none"> • Fouled spark plugs. • Loose or defective high-tension leads. • Plugged PVC valve. • Weak ignition coil. • Vacuum leak. 	<ul style="list-style-type: none"> • Replace spark plugs. • Tight or replace the high-tension leads. • Replace PVC valve. • Replace ignition coil. • See your dealer.
Poor boat performance	<ul style="list-style-type: none"> • Fouled spark plugs. • Contaminated fuel. • Plugged flame arrestor. • Weak ignition coil. • Fuel filter clogged. • Ignition problems. 	<ul style="list-style-type: none"> • Replace spark plugs. • Replace the fuel and filter. • Clean the flame arrestor. • Replace the ignition coil. • Replace the fuel filter. • See your dealer.
Poor gas mileage	<ul style="list-style-type: none"> • Fouled spark plugs. • Plugged flame arrestor. • Inefficient driving habits. • Plugged PCV valve. • Ignition problems. 	<ul style="list-style-type: none"> • Replace spark plugs. • Clean the flame arrestor. • Plan the boat quickly, then slow down to desired speed. • Replace PCV valve. • See your dealer.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Throttle/shifting problems	<ul style="list-style-type: none"> • Corroded cables. • Defective throttle return spring. • Low transmission oil level. • Sticking transmission shift detent ball. • Kink in cables. 	<ul style="list-style-type: none"> • Clean and lubricate cables. • Replace the throttle return spring. • Replenish the transmission fluid. • Clean and lubricate detent ball. • Replace the cable(s). See your dealer.
Steering problems	<ul style="list-style-type: none"> • Corroded cables. • Rudder worn. 	<ul style="list-style-type: none"> • Clean and lubricate the cable. • See your dealer.
Excessive vibration	<ul style="list-style-type: none"> • Fouled propeller. • Damaged propeller. • Misaligned propeller shaft coupling. • Bent propeller shaft. 	<ul style="list-style-type: none"> • Remove objects from the propeller shaft and rudder. • Replace the propeller. • Check the alignment. See your dealer for proper realignment. • See your dealer.
Electrical problems	<ul style="list-style-type: none"> • Open circuit breaker or blown fuse. • Loose wing connections or corrosion. • Defective sending unit. • Shorted wiring harness. • Defective switch or gauge. 	<ul style="list-style-type: none"> • Reset the circuit breaker or replace the fuse. • Clean and tighten wiring connections. • Replace the sending unit. • Repair the wiring harness. • See your dealer.
No speedometer	<ul style="list-style-type: none"> • Disconnected, kinked or plugged tubing. • Plugged pitot pickup. • Defective pitot pickup. • Defective speedometer. 	<ul style="list-style-type: none"> • Repair or replace the tubing. • Remove objects from the pickup. • Replace pitot pickup. • Replace the speedometer.
Incorrect speedometer	<ul style="list-style-type: none"> • Blocked pitot tube. • Water in tubing. • Defective speedometer. 	<ul style="list-style-type: none"> • Remove the blockage. • Disconnect the tubing at the speedometer and blow out the tubing. Tighten nut finger snug, then 1/4 turn more. • Replace the speedometer.

Warranty

2006 Malibu Transferable Lifetime Limited Warranty

Malibu Boats West, Inc. warrants to the Original Retail Purchaser that the hull, deck, liner, upholstery frames, and stringers on every new boat manufactured shall, under normal authorized use, be free from structural defects for as long as the original purchaser owns the boat. Malibu Boats West, Inc. or its selling dealer will, without charge, repair or replace at Malibu's option, any boat or portion thereof proven to its satisfaction to be in defect during the above warranty period.

Transferable Option: The above Lifetime Limited Warranty Policy may be transferred to subsequent owners/purchasers through an authorized Malibu Dealership for a fee during a period of five (5) years from the date of sale to the original retail purchaser

Exception: The Lifetime warranty does not cover the gelcoat nor any other components fastened or applied to the dash, hull or deck. Gelcoat discoloration blisters and cracks are not considered structural defects. Gelcoat along with installed components are warranted separately under the Malibu "Basic" warranty listed below.

2006 Malibu Basic Warranty

What is covered and for How Long

Boat coverage

- Malibu Boats West, Inc. warrants all parts of your 2006 Malibu boat supplied by Malibu, for a period of 36 months or 400 hours, whichever comes first.
- This warranty covers any repairs needed to correct defects in materials or workmanship of all parts and components of each new Malibu boat supplied by Malibu except for the exclusions or items listed under the caption "What is not Covered" or as indicated below.
- This warranty is provided to the original owner(s) of a Malibu boat originally distributed by Malibu Boats West, Inc. and which is originally sold by a Malibu Boats West, Inc. authorized Malibu dealership.
- In cases of resale, the balance of any remaining 2006 Malibu Basic Warranty coverage extends to subsequent owner(s) at no charge.

Powertrain coverage

Indmar Powertrains

- Malibu Boats West, Inc. administers the engine warranty for a units equipped with an Indmar powertrain.
 - The powertrain coverage for Indmar equipped units is 36 months with no hour limitation.
 - This warranty covers any repair needed to correct defects in materials or workmanship except for the exclusions or items listed under the caption "What is not Covered."
 - Please refer to the Indmar Engine Owner's Manual for specific warranty coverage information.
-

- This warranty is provided only to the original owner of a Malibu boat originally distributed by Malibu Boats West, Inc. and which is originally sold by a Malibu Boats West, Inc. authorized Malibu dealership.
- The above stated warranty is transferable to subsequent owners for a nominal fee. Contact Indmar Products Co. Inc. for details.

MerCruiser Powertrains

MerCruiser administers their warranty independently from Malibu Boats West, Inc. Please refer to the MerCruiser Engine Owner's Manual for warranty coverage information and specific details on how to submit a claim.

Gelcoat Coverage

- Malibu Boats West, Inc. warrants the gelcoat on your 2006 Malibu for a period of 24 months with no hour limitation.
- This warranty covers any repairs needed to correct defects in materials or workmanship in the gelcoat finish of each new Malibu boat supplied by Malibu except for the exclusions or items listed under the caption "What is not Covered" or as indicated below.
- This warranty is provided to the original owner(s) of a Malibu boat originally distributed by Malibu Boats West, Inc. and which is originally sold by a Malibu Boats West, Inc. authorized Malibu dealership.
- In cases of resale, the balance of any remaining gelcoat warranty coverage extends to subsequent owner(s) at charge.

***Note:** This warranty is contingent only on the understanding that the boat will be regularly washed using a mild detergent or other appropriate cleaning compound. In addition, when the boat is not in use, it is to be stored out of the water by one of the following methods:

- Out of the water on a trailer with a canvas cover
- Out of the water under a covered dock on a hydrohoist or in dry dock
- Out of the water in a garage or other structure with four walls and a roof

***Exception**

Warranty consideration for color fade and chalking only applies to gelcoat applied above the waterline.

Audio System coverage

- Factory installed audio systems are warranted independently by CPS Distributors Inc.
- CPS Distributors Inc. warrants all audio systems installed by Malibu Boats West, Inc. for a period of 12 months from the date of original retail purchase.
- This warranty covers any repairs needed to correct defects in materials or workmanship except for the exclusions or items listed under the caption "What is not Covered" or as indicated below.
- This warranty is provided to the original and subsequent owner(s) of a Malibu boat originally distributed by Malibu Boats West, Inc. and which is originally sold by a Malibu Boats West, Inc. authorized Malibu dealership.

Trailers

Each trailer manufacturer administers their warranty independently from Malibu Boats West, Inc. Please refer to their respective Owner's Manual for warranty coverage information and specific details on how to submit a claim.

The Warranty Period Begins

The warranty period begins on the date the boat is delivered to the first retail buyer or put into use, whichever is earlier.

No Charge

- Warranty repairs will be made at no charge for parts and/or labor. Malibu Boats West, Inc., or its selling dealer, will repair or replace, at Malibu's option, any boat or portion thereof proven to its satisfaction to be defective during the above warranty period.
- Any needed parts replacement will be made using Malibu approved new or remanufactured parts.

Obtaining Warranty Service

The boat must be taken to an authorized Malibu Dealer during regular business hours at your expense in order to obtain warranty service. If you need help locating your nearest dealer, contact Malibu Boats West, Inc. for assistance.

Maintenance and Records

As a condition of this warranty, you are responsible for properly using, maintaining and caring for your boat as outlined in your OWNER'S MANUAL, and maintaining copies of all maintenance records & receipts for review by Malibu Boats West, Inc. Failure to do so may result in denial of warranty coverage.

Evidence of the performance of the required maintenance should be kept and presented as proof of such maintenance in connection with related warranty repairs. To assist you in maintaining appropriate records, the Maintenance Log located in the back of this booklet can be used along with the supporting repair invoices, receipts and other such records.

What is not Covered

Damage, Failures or Corrosion Due to Accidents, Misuse or Alterations
This warranty does not cover damage, failures or corrosion resulting from:

- Accident, theft, fire, or misuse (Proper use is outlined in your OWNER'S MANUAL).
 - Alteration, tampering or improper repair.
 - Installation of non-Malibu approved accessories or components.
 - Improper installation of any Malibu approved or aftermarket accessory or component.
 - Glass breakage, unless resulting from defects in material or workmanship.
 - Boats that have been altered, overpowered or overloaded.
 - Mildew damage, paints, plated finishes, gelcoat finish distortions.
 - Boats used for racing or any type of commercial use or service.
 - Maintenance service expenses as specified in your OWNER'S MANUAL such as engine tune-ups, inspections, replacement of filters, sea water impellers, prop shaft packing, lubricants and coolant.
 - Damage, failures or corrosion from environmental conditions to include but not limited to: salt, tree sap, chemical fallout (acid rain), windstorm
 - Any and all consequential damages including but not limited to costs or charges derived from haul-out, launching, towing, storage charges, telephone or rental charges of any type, inconvenience for loss of use, commercial or monetary loss due to time loss, or any other special or consequential loss of any kind.
-

Accessory items ordered through Malibu Boats and shipped by the respective vendor to include but not limited to: Towers, Canvas, tower lights, speakers, storage racks, and trailers. These items all have specific warranty periods and conditions that you should be familiar with should you need assistance. Should you encounter a problem, we advise you to contact the respective vendor for assistance.

Limitation of Warranties

This limited warranty is given in place of any and all expressed or implied warranties, and may not be modified in whole or in part by anyone other than Malibu Boats West, Inc.

Some states do not allow a limitation on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage; therefore, these limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

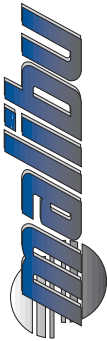
Malibu Boats West, Inc., One Malibu Court, Merced, CA 95340
Phone: (209) 383-7469, Fax: (209) 383-0499
Email: info@malibuboats.com

Glossary

AFT:	To the rear of the boat near the stern. Generally used to give directions.
BEAM:	The widest portion of the hull.
BILGE:	The lowest portion inside the boat. This is generally the section directly below the engine compartment.
BOW:	The forward portion of the boat.
BULKHEAD:	Vertical portion in a boat.
CHINE:	The intersection of the sides and bottom of a “V” bottom boat.
DEADRISE:	The degree of angle from the keel to the chine.
DECK:	Upper structure which covers the hull.
DRAFT:	Vertical distance from the waterline of the boat to the lowest part of the boat.
FibECS II:	An engine mounting method, using fiberglass instead of other materials such as aluminum or steel; patented by Malibu Boats West, Inc. that provides major reduction in noise and vibration.
FIBERGLASS:	Fibers similar to wool or cotton, but made from fibrous glass. Glass fiber forms include cloth, yarn, mat, milled fibers, chopped strands, roving, and woven roving.
GELCOAT:	A surface, either colored or clear, providing a cosmetic enhancement and exposure improvements to a fiberglass laminate.
GUNNEL:	The upper edge of a boat’s side.
HELM:	Device attached to rudder for steering a vessel.
HULL:	The bottom section of the boat.
KEEL:	The lowest most portion of the bottom of the boat.
LIFTING STRAKES:	Strips molded or attached to the surface of a hull designed to create lift as speed and pressure increase with the static water.
PORT:	To the left side of the boat, when facing the bow.
STARBOARD:	To the right side of the boat, when facing the bow.
STERN:	To the rear of the boat.
STRINGER:	Longitudinal members that are fastened inside the hull of the boat which provide structural integrity.
TRANSOM:	The area forming the stern, or rear, of a boat.
WAKE:	The track or path a boat leaves behind while in motion.

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Maintenance Worksheet

Please circle one- Pre-delivery-/10hr.-/50hr.-/100hr.-/Annual

HULL NUMBER	PHONE NO.
OWNER NAME	

SERVICE DATE	WORK ORDER #	BOAT COLOR	SERVICE TECHNICIAN
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INSTRUCTIONS

Please complete following; check each item as completed.

1. Inspect prop
2. Check engine alignment, motor mounts, and jam nuts
3. Check shaft packing
4. Service rudder (lubrication)
5. Check battery, battery hold down, cable connections
6. Check instrumentation
7. Check lanyard switch operation (kill switch)
8. Check lights (bow, stern, and dash)
9. Check steering wheel cable fasteners, lubricate support tube and cable
10. Check control mechanism MV-2, MV-3 (freedom of movement)
11. Check neutral safety switch operation
12. Check security of fasteners (seat slides, seats, platform, interior handles)
13. Check all fuel connections (engine, tank, pump, filter)
14. Check engine exhaust clamps
15. Change engine oil and filter
16. Change transmission fluid/ filter
17. Change V-Drive oil (clean screens / magnetic plugs)
18. Change fuel filters (engine / tank)
19. Inspect belts
20. Inspect impeller
21. Clean / change flame arrestor
22. Check engine coolant (closed cooling only)
23. Check trailer: wheel lugs, lights, and loading bar
24. Inspect and lubricate wheel bearings
25. Check brake fluid level (if applicable)

LAKE TEST

1. Perform TECH I data list scan
2. Check PROM ID and record in customer file
3. Check engine timing (in service mode)
4. Check fuel pressure and log reading
5. Verify oil levels (engine, Trans, V-Drive)
6. Verify blower operation, check hose attachment
7. Verify bilge pump operation and float control
8. Check for engine / boat water leaks
9. RE-check fuel connections
10. Verify neutral safety switch operation
11. Check for presence of vibration
12. Verify lanyard switch operation (kill switch)
13. Verify instruments operate properly
14. Verify controls operate properly (IE: steering, shifter)
15. Verify options function properly (IE: heater, shower etc.)

I certify that all checks have been performed and completed, this vessel has been prepared in conjunction with Malibu Boats specifications.
To ensure proper warranty status, Boat/ Engine MUST receive recommended maintenance schedule.

Technician Signature _____ Date _____

Service Contact _____ Phone _____

Customer Signature _____
PLEASE RETAIN IN CUSTOMER FILE FOR FUTURE REFERENCE



Required Maintenance Schedule Indmar Engines

Item No.	Service	First 10 hours	Every 50 hours	Every 100 hours	Annually
1.	Change engine oil and filter Pennzoil Marine 15W/40, Pennz #PZ-3, AC PF-25	***	***		***
2.	Change transmission oil and filter Dextron III w/Mercon				***
3.	Change V-Drive oil SAE 30 motor oil				***
4.	Change fuel filter, Motor / Gas tank	***		***	***
5.	Change Spark plugs Indmar Engines MUST use AC-MR43LTS or 41-932 Platinum				***
6.	Verify Engine timing 10 degrees advanced (base timing)	***			***
7.	Engine tune up (Cap, Rotor, Plugs)				***
8.	Clean for change flame arrestor			***	
9.	Inspect belts, hoses and clamps Tight?	***			***
10.	Shaft alignment Within .003	***			***
11.	Inspect spark plug wires				***
12.	Inspect Raw water pump impeller (change annually)			***	***
13.	Inspect rudder (tube, key-way, bolt tight)		***		***
14.	Inspect Prop Shaft Packing	***			***
15.	Inspect Steering Kit Assembly (Lube, bolts tight?)		***		***
16.	Check Engine Coolant (closed cooling only) 50:50 mix water w/ethylene glycol MUST meet GM 6038				***
17.	Propeller Tight (prop nut tight? key-way installed?)	***	***	***	***7
18.	Lubricate starter bendix (Lithium marine grease)		***		***

malibu

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