Welcome Aboard!

Congratulations on your choice of the finest ski boat available. MasterCraft is the recognized world leader for in-board ski boats today and has been for more than 30 consecutive years. The quality, innovation, selection and value are unmatched in the industry.

Please take a few minutes to read this Owners and Operators Manual completely before you use your MasterCraft boat for the first time. It will help you answer most of the remaining questions you may have about your new boat.

Every effort has been made to make this manual accurate. All information is based on the latest product information available at the time of printing.

Because of our policy of continuous product improvement, we reserve the right to make changes at any time, without notice, in specifications and models and also to discontinue models. The right is also reserved to change specifications, parts or accessories at any time without incurring any obligation to equip the same on models manufactured before the date of the change.

The continuing accuracy of this manual cannot be guaranteed. The illustrations used in this manual are intended only as representative reference views and may not depict actual model component parts. Information about certain on-board components furnished by suppliers other than MasterCraft is provided separately. This information is available from your dealer.

NOTE: The information given in this Owner’s Manual may not be applicable to international waterway rules. If you have any questions, please contact your local authority.
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Construction and Standards

All MasterCraft boats are constructed of the highest quality fiberglass materials and resins available. We take pride in producing boats with the highest standards of quality and workmanship. Our commitment to excellence is evident in every part of the production process and facility. This commitment continues to the owner with our limited warranty.

The hull, deck, stringers and inner liner are 100 percent hand-laid, with up to 12 layers of fiberglass. All major hardware is anchored in steel or composites that have been in-laid into the hull and liner during the construction process.

All fasteners, hardware, handrails and lifting rings are made from premium-grade stainless steel. All parts operating in the water are constructed of bronze alloys. Every boat is water-tested and quality-checked at the factory. A permanent record is kept for future reference.

All MasterCraft boats come equipped with many standard features. Among the features are:
- mirrors
- storage
- transom ski tow eyes
- dual tournament speedometers
- swim platforms.

Amenities include:
- drink holders
- color-coordinated upholstery
- built-in cooler
- acoustically insulated motor box
- lockable glove box.

Among the safety-oriented features are:
- interior handrails
- tethered engine-stop switches
- rear-facing observer seats
- bilge blower & pump system
- fire extinguisher
- horn
- inland lighting.

Performance features encompass:
- full instrumentation and custom gauges.

As an active member of the National Marine Manufacturers Association (NMMA), every MasterCraft boat and trailer meets or exceeds the rigid specifications for certification. This affirmation exceeds the federally mandated United States Coast Guard (USCG) requirements and is backed by the 600-member NMMA.
Inspections are performed annually by a nationally recognized, independent testing organization. Inspectors visit the plant each year before the model year begins to check all our models for conformance. The inspectors then return—unannounced—during the year to insure continued compliance with certification requirements.

Certification checks are developed by the NMMA engineering staff and the Marine Service Practices Committee to help guard against over-powering, overloading, fire, explosion, sinking and collisions.

All parts used in the construction of MasterCraft boats meet or exceed all USCG and American Boat and Yacht Council (ABYC) standards.

⚠️ WARNING

*NOTE: Never use or authorize the use of automotive parts, clone parts or parts of unknown quality, design or origin. Insist on only genuine MasterCraft replacement parts from your dealer.*

*Note: The removal, tampering, alteration or obliteration of any or all identification numbers will relieve MasterCraft from all obligations to make warranty repairs or replacements.*

### Hull Locations

The Hull Identification Number (HIN) can be found at the top, outside, starboard corner of the transom. The HIN is molded into the transom and federal law prohibits removal or tampering in any way.

### Serial Number Locations

<table>
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Your engine will also have an **Engine Identification Number** (EIN). Refer to the manual that came with the engine in order to determine the location.

The identification numbers of your boat are important to you. Record the serial and model numbers of your boat in the spaces provided. *Keep a copy of these numbers on a separate sheet of paper and store in a safe place other than your boat.*

In case of theft, report these numbers in writing to local authorities, your insurance agent and **MasterCraft** in care of: Customer Service, MasterCraft Boat Company, 100 Cherokee Cove Drive, Vonore TN 37885.
YOUR SAFETY, AS WELL AS THE SAFETY OF OTHERS WITH AND AROUND YOU, IS A direct result of how you operate and maintain your boat. Read and comprehend this manual. Make sure that you understand all the controls and operating instructions before attempting to operate the boat. **Improper operation is extremely dangerous.**

The basic safety rules are outlined in this section of the manual. Additional precautions throughout the manual are noted by the following symbols.

⚠️ **WARNING**

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

⚠️ **CAUTION**

This symbol indicates a potentially hazardous circumstance, which, if not avoided, may result in *minor or moderate injury.* It may also be used to alert against unsafe practices.

⚠️ **DANGER**

This sign indicates an imminently hazardous situation, which, if not avoided, will result in *death or serious injury.* This is limited to the most extreme situations.

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

In addition to everyday safety, failure to observe the safety recommenda-
tions may result in severe personal injury or death to you or to others. Use caution and common sense when operating your boat. Don't take unnecessary chances!

Be certain that all boat operators are aware of this information and conform to boat safety principles.

**Boating Safety Starts with a Thorough Understanding of Operation.** In addition to careful review of this manual, you should be aware as well that there are many sources of information available. MasterCraft urges you to pursue additional training.

The following is a listing of just some of the agencies and organizations that offer safety training or information:

- **American Red Cross, National HQ**
  17th & D Streets NW
  Washington DC 20006
  (202) 639-3686

- **American Water Ski Association (AWSA)**
  799 Overlook Drive
  Winter Haven FL 33884
  (941) 324-4341

- **Boat Owners Association of the United States (BOAT/US)**
  880 South Pickett Street
  Alexandria VA 22304
  (703) 823-9550

- **National Safe Boating Council**
  2550 M Street NW, Suite 425
  Washington DC 20037
  (202) 296-4588

- **U.S. Coast Guard Auxiliary Commandant (G-NAB)**
  2100 Second Street SW
  Washington DC 20593-0001
  (800) 356-2628

**Federal Law Requires Certain Safety Equipment to Be On-Board at All Times.** In addition, responsible boaters carry other equipment in case of emergency. Check with the local boating authorities for any additional requirements over and above the federal stipulations.
Required Equipment

YOUR MasterCraft has been equipped at the factory with most of the federally required safety equipment for inland waters (Class 1, 16'-to-26'). This equipment includes:

- UL-approved Marine Fire Extinguisher, Type A-BC (2 lbs.), good for solids, liquids, and electrical fires
- ABYC-approved Electric Horn sound warning device
- USCG-approved inland lighting

Federal law also requires at least one Type I, II or III Personal Flotation Device (PFD) for each person on board or being towed on water skis or other recreational equipment. In addition, one throwable Type IV PFD must also be on board. As the owner, obtaining the appropriate PFDs is your responsibility. Your MasterCraft dealer can—and will be happy to—assist you.

NOTE: Requirements for coastal waters and inland waters differ. Check with the local authorities for more information.

Recommended Equipment

A smart owner will avoid potential problems on an outing by having additional equipment on board. Normally, this equipment is dependent on the body of water and the length of the trip.

We suggest the following—as a minimum. Your MasterCraft dealer can also assist you with additional recommendations.

- An anchor with at least 75-feet of line
- A manual bailing device for removing water
- A combination oar/boat hook
- A day-and-night visual distress signal
- A first aid kit and manual
- An airway breathing tube
- A waterproof flashlight
- A set of local navigation charts
- Mooring lines and fenders
- Extra engine oil
- A tool kit
- A portable AM/FM radio
Boating-related accidents are generally caused by the operator's failure to follow basic safety rules or written precautions. Most accidents can be avoided if the operator is completely familiar with the boat, its operation, and can recognize potentially hazardous situations before an accident occurs.

Improper operation is extremely dangerous. Operators must read and understand all operating manuals supplied with the boat before operation.

On-board equipment must always conform to the governing federal, state and local regulations.

Always attach the engine safety shut-off switch lanyard to a part of your clothing, such as a belt loop, when operating the boat.

Never override or modify the engine safety shut-off switch or engine neutral starting safety switch in any way.

Never operate the boat while under the influence of alcohol or other drugs.

Never stand or allow passengers to stand in the boat—or sit on the motor box—while underway. You or others may be thrown from the boat.

Prior to starting the engine, you must open the engine box and check the engine compartment and bilge for gasoline and oil vapors. You must also operate the blower for at least four minutes. Failure to do so may result in fire or explosion.

Never remove or modify any components of the fuel system except for maintenance by qualified personnel. Tampering with fuel components may cause a hazardous condition.

Never allow any type of spark or open flame on board. It may result in fire or explosion.

Skiers are obligated to be as aware of the fundamental safety rules as operators must. If you are new to water skiing, seek certified training before starting. You will find it especially helpful to join a local ski club and the AWSA, when possible.

Always remember that the majority of water skiing injuries are the result of impacts with other objects, so always look where you are going and be aware of what is going on around you.
THE USE OF A SKI PYLON EXTENSION OR EXTENSIONS IN EXCESS OF 7- FEET-VERTICAL IS NOT RECOMMENDED by MasterCraft on our products. If you elect to use merchandise such as these, be aware that they could create excessive stress on your boat and subjectively cause damages not covered by the warranty. MasterCraft offers a pylon extension that has been factory-tested and will not damage your boat when used as directed. Use of any other pylon may void your warranty.

Warning Plates and Labels

KEEP AWAY FROM REAR OF BOAT WHILE ENGINE IS RUNNING TO AVOID PERSONAL INJURY.

AVOID SERIOUS INJURY SHUT OFF AND/OR DO NOT START ENGINE BEFORE ALLOWING ANYONE ON OR ABOUT SWIM PLATFORM.

FUEL VAPORS ARE A FIRE AND EXPLOSION HAZARD. DO NOT STORE FUEL OR FLAMMABLE LIQUIDS HERE. VENTILATION HAS NOT BEEN PROVIDED.

THIS TOW BAR IS NOT DESIGNED FOR VERTICAL EXTENSIONS OVER 7 FT. ANY MODIFICATIONS TO THE TOW BAR OR ITS MOUNTINGS, MAY RESULT IN DAMAGE TO THE BOAT.

ENGINE SHUTDOWN LANYARD SHOULD BE ATTACHED TO OPERATOR'S PERSON AT ALL TIMES DURING OPERATION.

BOATMAN'S CHECKLIST

Read and note ALL warning plates and labels from bow to stern, including these!

Owners Manual
Rules of the Road

JUST AS THERE ARE RULES WHICH APPLY WHEN DRIVING A VEHICLE ON THE STREET, there are waterway rules which apply when you are driving a boat. These rules are used internationally, and they are also enforced by the United States Coast Guard and local agencies. You should be aware of these rules and follow them whenever you encounter another vessel on the water.

In various geographic locations certain rules prevail that may be unique to the locale, but all are basically the same as the International Rules of the Road.

The rules presented in this manual are condensed and have been provided as a convenience only. Consult your local U.S. Coast Guard Auxiliary (USCGA) or Department of Motor Vehicles (DMV) for a complete set of rules governing the waters in which you will be using your boat. If you plan to travel—even for a short trip—you would be well served to contact the regional USCGA or DMV in the area where you will be boating.

ANY TIME TWO VESSELS ON THE WATER MEET ONE ANOTHER, ONE VESSEL HAS THE right-of-way. It is called the stand-on vessel. The vessel which does NOT have the right-of-way is called the give-way or burdened vessel.

These rules determine which vessel has the right-of-way, and accordingly, what each vessel should do.

THE VESSEL WITH THE RIGHT-OF-WAY HAS THE DUTY TO CONTINUE ITS COURSE AND speed, except to avoid an immediate collision. When you maintain your direction and speed, the other vessel will be able to determine how best to avoid you.

THE VESSEL WHICH DOES NOT HAVE THE RIGHT-OF-WAY HAS THE DUTY TO TAKE positive and timely action to stay out of the way of the stand-on vessel. Normally, the give-way vessel should not cross in front of the stand-on vessel. Slow down or change directions briefly and pass behind the other vessel. You should always move in such a way that the stand-on operator can see what you are doing.
This rule is called Rule 2 in the International Rules and says,

"In obeying and construing these rules due regard shall be had to all dangers of navigation and collision and to any special circumstances, which may render a departure from the above rules necessary in order to avoid immediate danger."

There are three main situations in which you may encounter other vessels and you must observe the Steering Rules in order to avoid a collision. These are:
- **Meeting** (you are approaching another vessel head-on)
- **Crossing** (you are traveling across the other vessel's path)
- **Overtaking** (you are passing or being passed by another vessel)

Using the following illustration in which you are the boat in the center, you should give right-of-way to all vessels shown in the white area. In this instance, you are the give-way vessel. All vessels in the shaded area must yield to you as you are the stand-on vessel. Both you and the meeting vessel must alter course to avoid each other.

If you are meeting another power vessel head-on, and you are close enough to run the risk of collision, neither of you has the right-of-way. Both of you should alter course to avoid an accident. You should keep the other vessel on your port (left) side. This rule doesn't apply if both of you can clear each other by continuing your set course and speed.
When two power-driven vessels are crossing each other's path close enough to run the risk of collision, the vessel that views the crossing vessel to the starboard (right) side must give-way.

If the other vessel is to the port (left) side, maintain your course and direction, provided the other vessel gives you the right-of-way as it should.

If you are passing another vessel, you are the give-way vessel. This means that the other vessel is expected to maintain its course and speed. You must stay out of its way as you clear it, altering course and speed as necessary.

Conversely, if you are being passed by another vessel, you should maintain your speed and direction so that the other vessel can steer itself around you.

There are three other rules to always remember when driving your boat around other vessels:

When navigating in narrow channels, you should keep to the right when it is safe and practical to do so. If the operator of a power-driven vessel is preparing to go around a bend that may obstruct the view of other water vessels, the operator should sound a prolonged blast on the whistle or horn—four to six seconds.

If another vessel is around the bend, it too should sound the whistle or horn. Even if no reply is heard, however, the vessel should still proceed around the bend with caution.
If you navigate these type of waters, you should carry a portable air horn, which are available from local marine supply stores.

**Fishing Vessel Right-of-Way**

All vessels which are fishing with nets, lines or trawls are considered under International Rules to be fishing vessels. Boats with trolling lines are not considered fishing vessels.

Fishing vessels have the right-of-way, regardless of position. These vessels, however, cannot impede the passage of other vessels in narrow channels.

**Sailing Vessel Right-of-Way**

Sailing vessels should normally be given the right-of-way. The exceptions to this are:

...When the sailing vessel is overtaking the power-driven vessel, the power-driven vessel has the right-of-way.

...Sailing vessels should keep clear of any fishing vessel.

...In a narrow channel, a sailing vessel should not hamper the safe passage of a power-driven vessel which can navigate only in such a channel.

**Reading Buoys and Other Markers**

The waters of the United States are marked for safe navigation by the lateral system of buoyage. The markers and buoys you will encounter have an arrangement of shapes, colors, numbers and lights to show which side of the buoy a boater should pass when navigating in a particular direction.

The markings on these buoys are oriented from the perspective of being entered from seaward while the boater is going towards the port. This means that red buoys are passed on the starboard (right) side when proceeding from open water into port, and black buoys are to port (left) side. When navigating out of port, your position to the buoys should be reversed: red buoys to port and black buoys to starboard.

Many boating bodies of water are entirely within the boundaries of a single state. The Uniform State Waterway Marking Systems has been devised for these waters. This system uses buoys and signs with distinctive shapes and colors to show regulatory or advisory information.

These markers are white with black letters and orange borders. The information signifies speed zones, restricted areas, danger areas and general information.

Remember: Markings may vary by geographic location. Always consult local boating authorities before driving your boat in unfamiliar waters.
Examples of Buoys and Markers

**MAIN CHANNEL BUOYS**

1. **LIGHTED BUOY (Port Hand)**
   - Odd number, increasing toward head of navigation. Leave to port (left) proceeding upstream.

2. **LIGHTED BUOY (Starboard Hand)**
   - Even number, increasing toward head of navigation. Leave to starboard (right) proceeding upstream.

3. **LIGHTED SAFE WATER BUOY**
   - No number. Marks mid-channel. Pass on either side. Letter has no lateral significance; it is used for identification and location purposes.

4. **LIGHTED PREFERRED CHANNEL TO PORT BUOY**
   - No number. Topmost band red; preferred channel is to the left of the buoy. Letter has no lateral significance; it is used for identification and location purposes.
General Layout...PowerStar 200

- Rope Guard
- Boarding Handrail
- Fuel Tank Filler
- Ski Pylon
- Tempered Safety Glass Windshield
- Bow Rails
- Bow Light
- Bow Tie Down

- Swim Platforms
- Bilge Drain Plug

- Convertible Rear Seat Cushion/Sun Deck
- Optional Barefoot Package Seating
- Aft-Facing Observer’s Seat
- Lockable Glovebox
- Storage (under Seats)

- Stern Light Receptacle
- Drain Plug
- Swim Platforms
- Non-Skid Pads
- Fuel Tank Fill Cap
- Adjustable Driver’s Seat
- Instrument Panel
- Drink Holders

Owners Manual
Controls and Indicators

Mercury Instrument Panel (Standard)

The speedometer indicates forward speed of boat in miles per hour. Dual speedometers are required for tournament use in case of a failure during a run. (Check the index at the back of your manual for Speedometer Calibration.)

The tachometer indicates the engine speed in crankshaft revolutions per minute (RPM). The tachometer is located to the left of the speedometers.

The 9-function multi-gauge monitors a variety of functions in your outboard motor. This includes:

- Speedometer .......... 1
- Tachometer .......... 2
- Multi-Function .......... 3
  Gauge
- engine temperature
- engine temperature warning light
- oil level
- oil warning light
- battery charge
- battery warning light
- fuel level
- fuel warning light
- boat trim.

The fuel gauge indicates the approximate amount of fuel in the fuel tank as measured in quarters of a tank. (A quarter of a tank is approximately 9.75 gallons.) Readings are only approximate and should be compared to the hours of operation multiplied by the experienced fuel consumption (gallons-per-hour or GPH).

The gauge is activated with the ignition switch. Rocking motion of the boat during normal operation will cause fluctuation of the fuel gauge. For a more accurate reading, make sure that the boat is level and at rest.

Although it may be possible to see fuel in the bottom of the fuel tank, you may not be able to operate the boat. The fuel pick-up system was designed to avoid introducing the water and debris that inevitably accumulates in the bottom of the tank. Rather than relying on visual inspection, you should watch the fuel gauge and recall your GPH, if possible.

Refer to the engine owners manual for more details regarding all of the functions on your instrument panel.

**THE IGNITION SWITCH HAS THREE POSITIONS:**

- off
- run (ignition)
- start

Never leave the switch in the RUN position without the engine running; this will prevent the natural discharge of the battery. It is also used to activate the instrumentation components.

**THE EMERGENCY ENGINE SAFETY SWITCH** is an ignition cut-off switch designed to stop the engine in the event of an operator being thrown from position or moving too far from the helm.

The lanyard is equipped with a hook on one end for attachment to your clothing, and the opposite end has a slide that fits over the switch. Be sure that the slide is firmly attached to the switch before starting. The switch is located on the gunwale, next to the throttle control box for PowerStars equipped with the standard Mercury instrument panel. However, if your
boat is equipped with the Yamaha instrument panel, the switch is on the panel next to the ignition switch.

The safety switch lanyard must be attached to the operator whenever the engine is started. Failure to do so may cause serious injury or death.

This switch activates the electric horn. Push and hold to sound the horn.

A three-position rocker switch serves as the instrumentation lighting switch, the bow (red/green) and stern (white) lights for night running, and stern-only lights for use when anchored at night.

Push the top half of the switch (toward NAV) to turn all lights ON. Push the bottom half of the switch (toward ANC) to turn only the stern light ON. When the switch is at center, it is OFF.

A two-position rocker switch activates a connected accessory. Push the top half of the switch to turn the accessory ON.

A three-position rocker switch activates the bilge pump. Push the top half of the switch to turn the bilge pump to the manual ON position. Press the switch to down to activate the bilge pump for automatic action while the boat is underway. When the switch is centered, the bilge pump is off.

All major boat circuits, except for the accessory (such as the stereo option), are protected from shorting and overload by re-settable 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 that must be attended to immediately. See your MasterCraft dealer.
Boat Circuit  
Ignition and Safety Circuits  IGN  At battery terminals  20 AMP
Warning Horn  HORN  Dashboard  10 AMP
Lighting  NAV-ANC  Dashboard  7 AMP
Blige Pump  PUMP  Dashboard  5 AMP
Radio  Fused  In back of radio  10 AMP
Accessory Circuit (1)  ACC-1  Dashboard  10 AMP
Accessory Circuit (2)  ACC-2  Dashboard  10 AMP
12-Volt Receptacle  N/A  Dashboard  15 AMP

THE STEERING WHEEL IS MECHANICALLY LINKED TO THE TILLER ARM BY A PUSH/PULL CABLE.

Yamaha Instrument Panel (Optional)

THE INSTRUMENT PANEL LAYOUT FOR A YAMAHA-POWERED BOAT IS ESSENTIALLY THE SAME AS THAT OF THE MERCURY PANEL, AS FAR AS THE SWITCHES ARE CONCERNED. THE IMPORTANT DISTINCTION IS THAT THE ENGINE EMERGENCY SAFETY SWITCH IS LOCATED ON THE YAMAHA INSTRUMENT PANEL RATHER THAN ON THE GUNWHALE.

The gauges along the top row include (from left to right): the multi-function tachometer (which includes a trim indicator and oil warnings), the dual speedometers and a multi-function LCD gauge. The read-outs on this last gauge include:

- speed
- time
- fuel level
- low battery warning
- distance
- overheating warning
- low fuel warning

Refer to the engine owners manual for more details and further information regarding all of the instrument gauges and switches.
Safety Checks and Services

The following checks and services are essential to safe boating and must be performed. Get in the habit of performing these checks in the same order each time so that it becomes routine.

DO NOT launch or operate the boat if any problem is found during the Safety Check. A problem could lead to an accident during the outing, resulting in severe injury or death.

Any and all problems should receive attention immediately. See your MasterCraft dealer.

✔ Check the weather report, wind and water conditions.*
✔ Check for recommended on-board tools and parts.*
✔ Check that the bilge drain plug is installed properly.*
✔ Check the propeller and shaft for damage.*
✔ Check that there is an adequate supply of fuel.
✔ Check that the steering system operates properly.
✔ Check that the required safety equipment is on-board.
✔ Check that the fire extinguisher is fully charged.
✔ Check that no fuel, oil or water is leaking or has leaked into the bilge compartment.
✔ Check all hoses and connections for leakage and damage.
✔ Check that all required Scheduled Checks and Services were performed.
✔ Check that the mandatory personal flotation device for each passenger is on-board.

✔ Check gauges frequently for signs of abnormal behavior.
✔ Check that controls operate smoothly.
✔ Check for excessive vibration.

✔ Fill the fuel tank to prevent moisture resulting from condensation.
✔ Check for fuel, oil and water leaks.
✔ Turn the main fuel valve to the OFF position.
✔ Check the propeller and shaft for damage.*

*These tasks are best accomplished while the boat is out of the water.
Engine and Fueling

You have selected one of several possible engines for your PowerStar. Due to the many differences and maintenance requirements of the various manufacturers, you should refer to the manual supplied by your engine’s manufacturer for the appropriate break-in, starting and operating procedures, maintenance and warranty information.

Fueling

If at any time a fuel line leak is detected, turn off the fuel valve to stop the fuel supply flow and consult your dealer for proper repair.

⚠️ WARNING

Gasoline is extremely flammable and highly explosive under certain conditions. Always stop the engine and never smoke near or in the presence of gasoline. Do not allow open flames or sparks within 50 feet of the fueling area when refueling.

Take extra care not to spill gasoline. If gasoline is spilled accidentally, first wipe up all traces of it with dry rags and dispose of the rags properly—on shore—immediately.

Always tighten the fuel plate cap completely with the cap key after refueling.
MASTERCRAFT URGES YOU—AND ALL OTHERS WHO WILL BE OPERATING THE
boat—to seek certified instruction from the local boating authorities.

This section is designed to present the most basic operational principles. It
is NOT intended to cover all conditions encountered during operation.
Therefore, the principles presented in this manual are limited to the facts
related directly to the operation of the boat, while the responsibility for
the proper application of these principles belongs to you.

NEVER OVERLOAD YOUR BOAT. The maximum weight capacity as list-
ed on the certification plate includes all items added to the boat (per-
sons and gear). Also, proper distribution of weight is critical to boat per-
formance. Allocate the load as evenly as possible.

KNOW HOW TO USE AND SPOT DISTRESS SIGNALS—AND OFFER ASSISTANCE IF POSSIBLE. Remember you may need assistance some day.

ALWAYS RESPECT THE RIGHTS OF OTHERS ON THE WATER. KEEP WIDE WHEN PASSING, SLOW DOWN IN CROWDED AREAS, BE ALERT AND BE AWARE OF YOUR WAKE AND WASH.
When taking to the water for the first time, you must keep in mind a few general guidelines.

- **Practice makes perfect!** Start in calm water with no wind or current and plenty of room until you get the feel for the boat and its controls.

- **Proceed slowly!** Give yourself time to think, react and maneuver.

- **Recognize outside forces!** Check the wind direction and velocity, as well as water currents and waves.

- **Have a crew on hand!** Have friends or family ready with fenders, lines and a boat hook to assist you when docking, as well as launching and loading.

- **A boat is not an automobile!** Boats cannot be maneuvered and stopped like a car. Boats steer from the stern (rear) and have no brakes.

Steering response is dependent upon three factors: tiller arm position, motion and throttle. While high speed maneuvering is relatively easy and takes little practice, slow speed maneuvering is far more difficult and requires much time and practice to master.

With both steering and propulsion at the rear of the boat, the initiation of a turn **pushes** the stern of the boat **away** from the direction of the turn. The stern follows a larger turning circle than the bow. This is especially important to remember when making close quarters maneuvers.
The effects of unequal propeller thrust (torque steering), wind, and current must also be kept in mind. While wind and current may not always be present, a practiced driver will use them to his advantage.

Unequal thrust is a phenomenon shared by all single-engine, propeller-driven boats. A counterclockwise rotation propeller tends to cause the boat to drift to port when going forward, and to starboard when going backwards, with the tiller arm in the straight-ahead position.

At high speed, there is compensation for this effect and it is virtually nonexistent. But, at slow speed—and especially during backing—the effect can be very powerful. This is the main reason most experienced drivers approach with the dock to starboard of the boat.

Stopping—or checking headway—is a technique that must be mastered. With no brakes, reverse thrust must be used to stop the boat. The momentum of the boat will vary according to the load. Make it a practice to slow to no-wake speed before shifting into reverse.

When practicing maneuvering techniques, always do so in open water that is free of traffic. Adequate practice may make the difference between a pleasurable experience or a damaging—at the least, embarrassing—one.

Your MasterCraft boat was designed to be a high performance ski boat. You may have seen professional drivers with advanced operating skills perform high-speed maneuvers and on-a-dime turns. DO NOT attempt to duplicate or simulate these feats. Paid, professional drivers log thousands of hours on the water and carefully choreograph every move. Plans are made in advance in the event the routine must be aborted. Maneuvers of this nature could cause serious injury or death, as well as damage to your MasterCraft that will not be covered under warranty.

If the body of water is unknown, talk to the local boaters about the type of obstacles you may encounter beneath the water’s surface. Rocks, tree stumps, sandbars and wing dams are all dangerous and damaging. Be especially wary of rivers and man-made lakes. Rapidly changing conditions can cause daily changes in underwater hazards.

Stay well clear of floating debris. What looks to be a small branch in the water may well turn out to be an entire tree.

When traveling through weedy areas, keep an eye on the engine temperature gauge. Weeds caught-up and blocking the water flow through the raw water intake will cause trouble. Also, after leaving the weedy area, shift to
neutral for a few seconds, and then to reverse for a few seconds to unwind any weeds that may have wrapped around the propeller.

Approach docks slowly, with the starboard side of the boat if possible. The natural tendency to torque steer with the rotation of the propeller at slow speeds makes docking easier on that side. Also, use wind and current to your advantage when docking.

Before tying-up the boat, be sure to use enough dock bumpers to protect the boat from damage. If possible, tie-up with the bow towards the waves. Use good quality double-braided nylon line. Tie-up only to the lifting or tie-down eyes. Never use the handrails or ski pylon.

If the boat is to be moored for a long period of time, use chafing protectors to protect the gelcoat finish. Leave a little slack in the lines, allowing for some wave movement or tidal action where applicable.

If the boat is to be kept in or near the water for the season, consider the purchase of a boat lift. These lifts prevent the build-up of marine growth on the hull as well as protecting from damage typical of on-water storage, such as blistering. Make sure the boat lift supports the hull correctly. See the next section, Lifting the Boat.
Lifting the Boat

When the boat is hoisted from the water, use the lifting eyes or a sling for easy, damage-free lifting.

DO NOT use the ski pylon for lifting. It is NOT designed as a central lifting point. Also, DO NOT use the stern ski low as a lifting ring; the deck will be damaged. See Storage Cradle Information below.

Also, never lift a boat with a large amount of water in the bilge. The extra stress will put a load on the hull and lifting equipment.

An overhead hoist with 2-ton capacity (minimum) should be used to lift your boat. Cables should be rated for at least 3500 pounds each. When lifting, keep the bow slightly higher than the stern to prevent any possibility of water running into the engine exhaust manifold.

An overhead hoist with 2-ton capacity (minimum) should be used. Slings must be 6-inches-wide-by-20-feet-long and a minimum capacity of 3500 pounds each. Use an 8-foot spreader bar on each sling to prevent damaging side pressure to the deck or gunwale molding.

Lifting slings must never contact shafts, struts or hardware protruding from the hull. Damage caused by slings will void the warranty.

If a storage cradle is used, the hull must be properly supported to prevent load damage. This can occur with as little as 15-pounds-per-square-inch of pressure. DO NOT support the boat by resting the hull on the keel. Vertical supports must extend from the chine to the keel with no gaps between the hull and cradle supports. A total support area of at least 250 square inches is required for proper support.

Protect all items extending from the hull from resting on the cradle or the ground. DO NOT apply any load stress to the prop, tiller arm, swim platform, or other protruding items.

MasterCraft
CAUTION

When boat is out of the water, it is important to support the keel to avoid any hull damage which will void the warranty.

Diagram: Stern lift eyes, keel, chine, storage cradle.
Galvanic corrosion (electrolysis) to the boater is the decomposition of metals due to the effects of electrolytic action. When two dissimilar metals are immersed in a conductive fluid (salt water), an electric current is produced, much like the action of a battery. As the current flows, it takes with it tiny bits of the softer metal. If left unchecked, a great deal of damage could occur.

If you operate in salt, polluted or brackish waters, your boat should be equipped with a transom-mounted zinc anode to prevent damage to those metal parts coming in contact with the water. The zinc is, by design, self-sacrificing. It is slowly eroded away by electrolytic action and requires periodic inspection for deterioration.

If the zinc shows extreme erosion, it must be replaced to continue protection, or damage to other metal parts may result.

Your boat has been designed for operation in fresh water. If you are operating temporarily in salt, polluted or brackish water, you will need to flush the bilge with fresh water.

If accelerated marine growth is a problem in your area, an anti-fouling bottom paint may be necessary to slow growth while protecting your gel-coat.

Before selecting a bottom paint, talk with other boaters and your MasterCraft dealer to determine which product works best in your area. Many local variables can affect the selection of paint. Be sure to follow the paint manufacturer's directions exactly.
PERIODIC CLEANING IS THE BEST WAY TO KEEP YOUR BOAT LOOKING LIKE NEW. Regular washing and waxing keep dirt and scum from building up and deteriorating the finish. Keeping your boat in a showroom-new condition results in personal satisfaction and higher resale value.

Your boat is made of fiberglass reinforced plastic resin material that is easy to clean and care for. Several layers of resin material are chemically bonded together to form the hull. The smooth outside surface of the hull is a layer of gelcoat resin. While the gelcoat is solid color, the thickness of the layer is only a few millimeters thick—much like paint on a car but much tougher, and chemically bonded.

Beneath the gelcoat surface is a series of layers of chemical resin, fiberglass mat and woven roving. It is these layers that give the boat its strength and keep the hull shape. The boat bottom also uses special core-mat material for its strength-to-weight and superior marine performance.

WHEN WASHING THE BOAT, BE SURE TO USE A MILD DETERGENT AND WARM water solution. DO NOT use abrasive cleaners, solvents, ammonia or chlorine as these will damage the gelcoat surface. Under extreme conditions, special cleaners may be used to remove marine growth from the hull. See your MasterCraft dealer for further instructions.

Waxing the entire gelcoat surface at least twice a season is recommended for all climates. Use of a specially formulated marine gelcoat wax will prevent color fade, soil and scum adhesion. If the gelcoat has chalked or faded from lack of proper maintenance, buffing may be necessary to bring back the shiny appearance. Hand buffing with a #7 rubbing compound or power buffing with glazing compound #1 will quickly restore the surface.

REGULAR WASHING WITH MILD DETERGENT AND WARM WATER OR AUTOMOTIVE vinyl cleaners is sufficient to keep the cushions and vinyl coverings in good condition. Keep the cushions from becoming soaked and dry thoroughly after washing to prevent mildew accumulation after the boat is covered. Prop up the cushions in the boat when it is covered to take advantage of air circulation. Spray with a mildew repellent.
While your vinyl is made to withstand the elements, it is important to care for it by keeping it clean at all times. Many substances may stain your vinyl if left on over a period of time. Remember to remove any contaminant and clean vinyl immediately.

Our vinyls are made to withstand the effects of sun, heat, acid rain and soiling, under normal conditions. Please consult these cleaning recommendations before cleaning your upholstery.

<table>
<thead>
<tr>
<th>Common Stains</th>
<th>Steps</th>
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<td>Befadine</td>
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<td>Chewing Gum</td>
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<td>Eyeshadow</td>
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<td>Spray Paint</td>
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<td>Shoe Polish*</td>
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<td>Ballpoint Ink*</td>
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<td>Household Soil</td>
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<tr>
<td>Permanent Marker*</td>
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<td>Coffee, Tea, Chocolate</td>
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</table>

DO NOT USE 499 CLEANER OR SILICONE-BASED PRODUCTS!!!

A. Medium-soft brush; warm, soapy water/rinse/dry.
B. Vinyl finish cleaner.
C. One (1) tablespoon ammonia; one-fourth (1/4) cup of hydrogen peroxide, three-fourths (3/4) cup of water/rinse/dry.
D. Wipe or scrape off excess (chill gum with ice).
E. Denatured alcohol/rinse/dry.

Note: All cleaning methods must be followed by a thorough rinse with water.

*SunTAN lotion, shoe polish, wet leaves and some other products contain dyes that stain permanently.

Certain household cleaners, powdered abrasives, steel wool and industrial cleaners can cause damage and discoloration. These are not recommended for use. Dry cleaning fluids and lacquer solvents should not be used as they will remove the printed pattern and gloss. Waxes should be used with caution because many contain dyes or solvents that can permanently damage the protective coating.
OCCASIONAL WASHING WITH MILD DETERGENT AND WARM WATER OR HOUSEHOLD carpet cleaners will keep the carpet clean. Thoroughly hose the detergent out of the carpet and into the bilge. (This is usually the best time to clean the bilge also.) Allow the boat to set uncovered in the sun for several days to prevent any mildew or odor caused by moisture.

REGULAR CLEANING AND OILING OF TEAK WOOD WILL MAINTAIN ITS ORIGINAL appearance. Use a teak cleaner that can penetrate the pores of the wood and cleanse them of dirt and stains. Avoid caustic teak cleaners since they can damage the wood. Immediately after cleaning, an oil sealer should be applied with a soft cloth. Allow a couple of hours for the oil to soak into the wood and apply a second coat. Wipe off excess oil to prevent a varnished look.

CLEANING THE WINDSHIELD WHEN NEEDED IS AN IMPORTANT SAFETY PRECAUTION. Your MasterCraft windshield is made of tempered safety glass. It requires special cleaning to prevent scratches to the surface. Use a mild soap solution and damp cloth only. Harsh detergents, solvents, chemicals or dry cloths could damage the windshield.

STAINLESS STEEL AND CHROME-PLATED PARTS ARE NOT TOTALLY RESISTANT TO CORROSION. Occasional cleaning and polishing with a marine chrome-and-stainless polish will maintain and extend the useful life. In salt water areas, rinse all hardware with fresh water and apply a light coating of protective oil to enhance the appearance after each use.

OCCASIONAL CLEANING OF THE TOP AND COVER SHOULD BE DONE WITH MILD soap and warm water. Thoroughly wet the entire surface and use a soft-bristled brush. Rinse completely and allow to drip dry. Then allow it to lay in the sun until completely dry. After cleaning, treat with a water repellant as necessary.

For heavy soil, a mild solution of 1/2-cup bleach, 1/4-cup household soap and one-gallon of water may be used for soaking. DO NOT allow to soak for more than 20 minutes—longer will cause deterioration of the stitching. Rinse completely and allow to drip dry. Then follow up with time in the sun until it is completely dry.
Scheduled Maintenance Checks and Services

Proper care, maintenance and adjustment will contribute to the peak performance of the boat, while also extending the overall service life and the resale value.

Use the following information to establish your maintenance routine. The instructions are grouped by the required service intervals. The pages that follow also provide instructions on how to accomplish the required checks, inspections and services listed. Your MasterCraft dealer or service center is the best source for proper maintenance.

The following definitions apply to maintenance:

- **Check**—Verify the operational readiness by physical measurement, i.e., alignment with a feeler gauge.

- **Inspect**—Determine the operational readiness by examination, i.e., by sight, sound or feel.

- **Change**—Tasks required periodically to keep the boat in proper operating condition, i.e., drain, replenish or service.

### Frequency and Scheduled Maintenance

#### New Boat Break-In

<table>
<thead>
<tr>
<th>Before Each Use</th>
<th>(Every 8 Hours)</th>
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- Check the injection oil level gauge.
- Check/service the fuel filter.
- Inspect the drive train for loose or missing hardware.*
- Inspect the throttle and shift cables for kinks, wear and interference with other components.
- Inspect the battery connections and hold-downs.
- Inspect the fuel system lines and connections for leakage.

<table>
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<tr>
<th>Quarterly</th>
<th>(Every 50 Hours)</th>
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- Lubricate the engine starter drive gear and shaft.
- Check the safety equipment.

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MasterCraft
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**Anually (Every 100 Hours)**

- Replace the fuel filters.
- Clean the fuel tank pick-up.
- Perform an engine tune-up.
- Clean the battery terminals.
- Lubricate the throttle and shift cables.
- Inspect the complete fuel system for leakage.

*Recommended to be performed with the boat out of the water.

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**Before Each Use (Every 8 Hours)**

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**Inspect Throttle & Shift Cables for Kinks, Wear and Interference**

1. Turn the engine OFF and disconnect the engine safety starting switch. Be sure that the throttle/shift control lever is in neutral. The engine must be cool.

2. On the transom at the engine's mounting well locate the throttle and shift cables. Follow each cable back under the deck and gunwale to feel for kinks and wear on the outer jacket. Any sign of cable damage is cause for replacement. See your MasterCraft dealer.

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**Inspect Battery Connections and Hold-downs**

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1. In the PowerStar, removed the carpeted panel beneath the sun-deck to access the battery. See the illustration.

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**WARNING**

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Battery electrolyte fluid is dangerous. It contains sulfuric acid, which is poisonous, corrosive and caustic. If electrolyte is spilled or splashed on any part of the body, immediately flush the area with large amounts of clean water and seek medical aid. When charging, batteries generate small amounts of dangerous hydrogen gas. This gas is highly explosive. Keep all sparks, flames and smoking well away from the area.
Check that the battery post connections are clean and tight. If not:

- Loosen and remove the negative terminal connection first. Be careful not to touch the positive terminal with the wrench.
- Loosen and remove the positive terminal connection.
- Remove battery hold-downs and remove the battery from the boat.
- Clean corrosion from the battery posts with a battery terminal cleaner. Clean the battery with a water-and-baking-soda solution. Use care to avoid allowing the solution to enter the battery vents. Rinse the battery with fresh water.
- Use a battery terminal cleaning brush to remove corrosion from the inside of the battery terminals. Clean the terminals with a water-and-baking-soda solution and rinse.
- Reconnect the positive terminal first, and then the negative. Tighten the terminals. Coat both terminals completely with a thin covering of marine grease. Be sure that the rubber boot covers the positive terminal completely.

Turn the engine OFF and disconnect the engine safety starting switch. Be sure that the throttle/shift control lever is in neutral. The engine must be cool.

Inspect complete fuel system for leakage

**WARNING**

Highly flammable and its vapors may result in fire or explosion. It is particularly cautious when working on any part of the fuel system. Be sure that the engine has cooled completely, and frame well away from the area. Never work on the fuel system. Take care not to spill gasoline is spilled accidentally, wipe up all gasoline with dry rags, and dispose of the rags immediately.

Visually check the fuel system from the engine to the fuel tank for obvious leakage.

Start the engine and look for leakage. Stop the engine immediately if leakage occurs. The leak must be repaired before the engine is restarted. See your MasterCraft dealer.
**Quarterly**
*(Every 50 Hours)*

**Lubricate Engine Starter Gear and Shaft**

**MASTERCRAFT** recommends that your quarterly—or 50-hour—maintenance requirements be performed by your **MasterCraft** dealer. Their staff has the proper equipment and technical training to best meet your service needs.

1. Turn the engine OFF and disconnect the engine safety starting switch. Be sure that the throttle/shift control lever is in neutral. The engine must be cool.

2. Locate the starter.

3. Disconnect the starter and carefully remove it from the engine.

4. Lubricate the starter bendix with a light coating of spray lubricant such as WD 40 or LPS 1.

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**Annually**
*(Every 100 Hours)*

**Lubricate Shift and Throttle Cables**

Some boat owners choose to execute these tasks as part of a winterization process or during the off-season, but regardless of the seasonal timing, this should be performed at least once a year.

1. Turn the engine OFF and disconnect the engine safety starting switch. Be sure that the throttle/shift control lever is in neutral. The engine must be cool.

2. Locate the shift and throttle cable ends.


4. Lubricate the cable ends and connections with a coating of waterproof marine multi-purpose grease.

5. Lubricate the pivots and linkages with a light grease.

6. Shift the control lever from full-throttle-forward to full-throttle-reverse several times to work the lubricant in.

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**Inspect Complete Fuel System for Leakage**

1. Turn the engine OFF and disconnect the engine safety starting switch. Be sure that the throttle/shift control lever is in neutral. The engine must be cool.
WARNING

Gasoline is highly flammable, and its vapors may result in fire or explosion. Be particularly cautious when working on any part of the fuel system. Be sure that the engine has cooled completely, and keep sparks and flames well away from the area. Never work on the fuel system when the engine is running. If gasoline is spilled accidentally, wipe up all gasoline immediately with dry rags, and dispose of the rags on shore.

2. Lift the sun deck and remove the back panel.

3. Remove the screws securing the floorboard behind the engine, and then remove the floorboard.

4. Check the fuel tank mounting points for cracks or other damage.

5. Check all hose connections for tightness.

WARNING

All replaced fuel system components must meet USCG and local authority standards, and must be UL-approved. Inferior quality components pose a serious safety threat to you and others, and the use of inferior components may result in serious injury or death. Resulting damage may void your warranty.

6. Check fuel hoses for wear, kinks, cracking, deterioration or other problems and damage.

7. Replace all damaged components immediately. If new components are installed, start the engine and look for any sign of leakage.

8. Re-install the floorboard and back panel.

NOTE: Throughout the instructions for maintenance, from break-in to annual, you have been instructed to disconnect the engine safety starting switch. In every instance, you must re-connect it after completing the maintenance procedures. Otherwise, your boat will not start nor run.
Unscheduled Maintenance

Your boat has been fitted with a propeller that offers the best overall combination for top performance. Still, it may be necessary at times to change the propeller to meet certain operating conditions, such as more speed (at the expense of torque) or more torque (at the expense of speed). In any case, consult your MasterCraft dealer for specific recommendations.

New propellers should be fitted to the shaft while it is out of the water to assure good contact. To replace and fit a propeller, use these procedures:

1. Turn the engine OFF and disconnect the engine safety starting switch. Place the throttle/shift control lever in forward gear.

2. Bend back the tabs on the lock washer.

3. Remove the propeller nut.

4. Using a propeller puller, pull the old propeller off the shaft.

5. Use a honing stone to remove any small burrs or nicks from the tapered end of the propeller shaft. Grease the driveshaft splines and reinstall the propeller.

6. Install the propeller nut and torque to the specifications noted in the engine owners manual.

7. Install a new lock washer and bend the ends up around the nut to lock the propeller on the shaft.

Propeller damage is caused by striking solid objects. If the propeller is not rotating, usually only one blade is bent, and it is difficult to see. If the propeller is rotating when it strikes an object, usually damage can easily be seen on all the blades.

To repair minor nicks and dings in a propeller:
1. Remove the propeller from the boat.

2. Use a small ball-peen hammer and anvil to carefully pound out the ding to the original contour of the blade.

3. File the area to remove rough edges.

4. Re-install as outlined in checking propellers, and if a vibration is detected, have the propeller replaced. Do not use a propeller that is the source of a vibration. **Further drivetrain damage could result, and this will not be covered under warranty!**

For tournament use and practice, accurate speedometer readings are a must. To calibrate the speedometer you need an accurately measured course of 850 feet and a certified stopwatch accurate to a thousandth of a second. To calibrate to AWSA official-tournament rules:

Approach the course at an indicated 36 miles per hour (MPH). Hold the speed steady and have an observer the check course time with a stopwatch.

If the course time is between 15.88 and 16.28 seconds, no adjustment is necessary.

If the course time is not within tolerance, turn the speedometer adjustment knob as needed until the correct time is obtained. Turn clockwise to increase readings and counterclockwise to decrease.

**NOTE:** Over-rotation of the speedometer adjustment knob that results in needle damage will not be covered under the warranty.
Loosen, but don’t remove the screw at the back of the light. Pop the top chrome piece off. Push down and turn the red-and-green lens. Remove the bulb and replace it.

During re-installation of the bow light lens, be sure that the red lens is to the port side of the boat and the green lens is to starboard. Reposition the chrome piece in place and return the assembly to the bow. Snug-up the screws—do not over-torque.

Unscrew the lens cover counterclockwise 1/8-turn. The cover will lift off. Remove the bulb and replace it. Reassemble, using care to avoid stripping the screws.

Your MasterCraft dealer is better equipped to change instrument panel lights when necessary. However, if you would like to check to be certain that the problem is not simply a loose connection, access to the panel is through a cut-out area under the console. Wing nuts hold the panel in place, but with the aid of a flashlight to see, you can probably reach up to the wiring and check the connections. If the connections seem snug but you still don’t have illumination in the gauges, check with your dealer.

The optional radio has two inline fuses; one on the power (positive) wire, and one on the memory wire. To access the fuse holders, open the observer’s seat. To access the accessory fuse, remove the screws securing the dash panel and pull the panel out a couple of inches. To open an inline fuse holder, grasp each end of the holder, push together and twist in opposite directions.

<table>
<thead>
<tr>
<th>Circuit</th>
<th>Fuse Type</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Power</td>
<td>ATC</td>
<td>3 Amp</td>
</tr>
<tr>
<td>Radio Memory</td>
<td>ATC</td>
<td>5 Amp</td>
</tr>
</tbody>
</table>
Storage/Winterization

Storage or winter lay-up requires special preparation to prevent damage to the boat. Since winter storage is an annual event, it presents an excellent opportunity to perform the annual maintenance at this time.

Without proper preparation, storage for long periods of time may cause internal parts of the engine and transmission to rust because of lack of lubrication. Also, if the boat has been stored in below-freezing temperatures, with water inside the bilge or engine cooling system, including the heater or shower, this could result in major damage from freezing. Damage to the boat due to improper storage will void the warranty.

The following procedures will help keep your boat from damage for a period of no longer than 5 months.

<table>
<thead>
<tr>
<th>1.</th>
<th>Fill the fuel tank and add 1 ounce of STA-BIL® gas stabilizer for each 5 quarts of gasoline (4 oz. per 5 gallons).</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Operate the boat for at least 15 minutes in water or using a flush system to enable the treated fuel to reach the engine.</td>
</tr>
</tbody>
</table>

NOTE: If you do not have a MasterCraft trailer for your boat, you should consider a storage cradle. If the hull is supported improperly for a period of time, a great deal of hull damage can occur. MasterCraft trailers are designed to give your boat proper support for long term storage. See Lifting the Boat, beginning on page 27, for more information on storage cradles.
When the Boat is Removed from the Water

1. Remove the bilge drain plug immediately after taking the boat out of the water. After a general bow to stern washing, raise the bow of the boat higher to allow as much water as possible to drain while performing other storage preparations.

2. Thoroughly clean the hull, deck and interior of the boat as soon as it is removed from the water. Cleaning at this time is easier because any marine growth is still wet. Be sure to allow a few days of air drying to prevent mildew that results from trapped moisture. (See Cleaning, beginning on page 30.)

3. Apply a coat of wax to the entire surface of the boat.

4. Remove the ignition safety switch and spin the engine over for a few seconds to remove excess water found in pump bodies.

5. Remove the negative battery cable from the battery. Charge the battery to full-charge or remove completely. Never store batteries close to heat, spark or flame-producing devices.

6. Clean all traces of dirt, oil grime and grease from the bilge.

7. Check to see if the speedometer pick-ups in the rear of the boat are clogged. If so, damage can occur to the speedometer ballast tubes.

8. Cover the boat with a boat cover or tarp.

NOTE: If the boat is to be stored outside and subject to accumulations of snow, water and ice, a support should be made for the boat cover so that it will not sag, rip or tear, thereby allowing water to enter the boat. Two-inch PVC plumbing pipe is ideal for this purpose. It is readily available at local hardware stores, and it is easy to work with. Also, its rounded shape will prevent damage to the canvas.

Re-activating the Boat After Storage

1. Charge and install the battery in the boat.

2. Check the bilge for signs of nesting animals. Clean as necessary.

3. Install the bilge drain plug.

4. Grease the propeller shaft splines and install the propeller.

5. Perform the daily maintenance. If not performed during storage, perform the annual maintenance.
## 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 skill and tools needed to correct major issues, we have not included that information. If you suspect a problem not addressed here, please contact your **MasterCraft** dealer.

For troubleshooting guidance regarding the engine, refer to the engine owner's manual.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throttle/shifting problems</td>
<td>• Corroded cables.</td>
<td>• Clean and lubricate the cables.</td>
</tr>
<tr>
<td></td>
<td>• Defective throttle return spring.</td>
<td>• Replace the throttle-return spring.</td>
</tr>
<tr>
<td></td>
<td>• Kink in cable.</td>
<td>• Replace the cable(s). See your dealer.</td>
</tr>
<tr>
<td>Steering problems.</td>
<td>• Low hydraulic fluid.</td>
<td>• Add hydraulic fluid. See your dealer.</td>
</tr>
<tr>
<td></td>
<td>• Air in the hydraulic system.</td>
<td>• Bleed and re-fill. See your dealer.</td>
</tr>
<tr>
<td>Excessive vibration.</td>
<td>• Fouled propeller.</td>
<td>• Remove objects from the propeller shaft and tiller arm.</td>
</tr>
<tr>
<td></td>
<td>• Damaged propeller.</td>
<td>• Replace the propeller.</td>
</tr>
<tr>
<td></td>
<td>• Bent propeller shaft.</td>
<td>• See your dealer.</td>
</tr>
<tr>
<td>PROBLEM</td>
<td>POSSIBLE CAUSE</td>
<td>SOLUTION</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Electrical problems.</td>
<td>• Open circuit breaker or blown fuse.</td>
<td>• Reset the circuit breaker or replace the fuse.</td>
</tr>
<tr>
<td></td>
<td>• Loose wiring connections or corrosion.</td>
<td>• Clean and tighten wiring connections.</td>
</tr>
<tr>
<td></td>
<td>• Defective sending unit.</td>
<td>• Replace the sending unit.</td>
</tr>
<tr>
<td></td>
<td>• Shorted wiring harness.</td>
<td>• Repair the wiring harness. See your dealer.</td>
</tr>
<tr>
<td>No speedometer reading.</td>
<td>• Disconnected, kinked or plugged tubing.</td>
<td>• Repair or replace the tubing.</td>
</tr>
<tr>
<td></td>
<td>• Plugged pilot pick-up.</td>
<td>• Remove objects from pilot pick-up.</td>
</tr>
<tr>
<td></td>
<td>• Defective pilot pick-up.</td>
<td>• Replace pilot pick-up.</td>
</tr>
<tr>
<td></td>
<td>• Defective speedometer.</td>
<td>• Replace the speedometer.</td>
</tr>
<tr>
<td>Incorrect speedometer reading.</td>
<td>• Blocked pilot pick-up.</td>
<td>• Remove the blockage.</td>
</tr>
<tr>
<td></td>
<td>• Water in the tubing.</td>
<td>• Disconnect the tubing at the speedometer and blow out the tubing. Tighten nut finger snug, then 1/4-turn more.</td>
</tr>
<tr>
<td></td>
<td>• Improper calibration.</td>
<td>• Recalibrate the speedometer.</td>
</tr>
<tr>
<td></td>
<td>• Defective speedometer.</td>
<td>• Replace the speedometer.</td>
</tr>
</tbody>
</table>
Specifications

<table>
<thead>
<tr>
<th>Boat</th>
<th>PowerStar 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>20'-6&quot;</td>
</tr>
<tr>
<td>Width (At Midship)</td>
<td>86&quot;</td>
</tr>
<tr>
<td>Draft</td>
<td>21&quot;</td>
</tr>
<tr>
<td>Weight (with Mercury engine)</td>
<td>2,275 lbs.</td>
</tr>
<tr>
<td>Tow Bar Height to Water Line</td>
<td>38&quot;</td>
</tr>
<tr>
<td>Fuel Capacity</td>
<td>40 gal.</td>
</tr>
</tbody>
</table>

Optional Equipment

A boat cover is a must for all boats. Protection from rain, birds and the damaging effects of ultraviolet light will help keep the boat looking new for years. Keep the cover on during all periods of non-use, except when trailering.

- Tonneau Cover
- Sun Top
- Bimini Top
- Bow Filler Cushion
- Yamaha Pre-Rig
- Mercury Pre-Rig
- Mercury EFI 200 with Five-Blade SS Propeller
- Mercury EFI 150 with Five Blade SS Propeller
- Kenwood AM/FM Cassette with Four Marine Speakers
- Kenwood 10 CD Changer with Four Marine Speakers
Dealer Service and Warranty

**Dealer Service**

Your MasterCraft dealer has been carefully chosen to provide you with expert service when needed. Our dealers are equipped with the latest service information and training for competent and courteous routine maintenance and service. They will also be glad to assist you with do-it-yourself replacement parts and advice.

For your safety, when replacing any parts on your MasterCraft, be sure to request the use of genuine MasterCraft replacement parts or parts approved by USCG and ABYC. *Never use automotive replacement parts for marine applications. In many instances, automotive parts are not designed to offer you the safety and commercial durability needed for marine use.*

**Warranty Service**

Although MasterCraft boats are extremely reliable, a problem may develop on occasion. If the boat is still under warranty, you may bring it to any one of the over 120 dealers in our network. If you have questions regarding warranty coverage, ask your dealer or contact the factory directly by writing to:

**Warranty Department**  
**MasterCraft Boat Company**  
**100 Cherokee Cove Drive**  
**Vonore TN 37885**

At the time of purchase of your MasterCraft, you and your dealer must fill out all portions of the warranty registration card. It is extremely important that the registration information card be filled-in at the time of the sale and be mailed by your dealer to the address shown on the card within 14 days of purchase.

Delays in mailing could result in delays in any service work pre-approvals, as well as implementing our formal processing of your records for surveys, recalls and other MasterCraft consumer publications. The information on the card is not only used to validate the warranty—enabling you to receive service—but also allows MCB to comply with the Federal Boating Safety Act, which will ensure your notification should a recall campaign be started. This information will also aid law enforcement officials and insurance companies in recovery of stolen boats. Original purchasers should inform MCB of any change of address for this same reason.
We will also be able to keep you informed of Team MasterCraft news, new accessories and service items that may become available to you.

To make a claim under warranty, contact the MasterCraft dealer from whom your boat was originally purchased, or the nearest dealer, and he will gladly assist you. It is highly recommended that warranty service on your MasterCraft be performed by the original dealer because of their personal interest in you.

Remember: your MasterCraft must be delivered to a dealer within 10 days of discovery of the defect in order for it to be covered by warranty.

Proof of purchase, such as a copy of your warranty card registration, may be required by the dealer to substantiate any warranty claim.

During the period of warranty, any authorized MasterCraft dealer will—free of charge—repair or replace, at MCB’s option, any item manufactured by MasterCraft Boat Company that proves to be defective (upon examination by MCB) due to faulty workmanship or material from the factory. All replaced parts will become the property of MasterCraft Boat Company.

Under the terms of this warranty, the owner is responsible for ensuring that the boat is registered for warranty, properly operated, maintained and stored in accordance with the owner's manual.

The owner of the boat shall give notice of any and all apparent defects within ten (10) days of discovery and deliver the boat for inspection and repairs to the MasterCraft dealer. The owner is also responsible for returning the boat from the MasterCraft dealer.

NOTE: The owner must read the warranty and owner assistance manual.

As the owner of a boat, you have certain responsibilities that must be acknowledged before taking to the water for the first time. In many cases, your MasterCraft dealer will be able to help you meet these responsibilities.

All power boats operated on federally controlled navigable waters of the United States must be registered and numbered in the state of principal use. Contact your state boating authorities to request a Certificate of Number application.
Insurance

Insurance for your MasterCraft should be obtained as soon as practical for protection against loss by fire, theft, and damage covered by a policy. Also, additional liability protection is recommended. Consult your insurance agent.

Periodic Maintenance

Maintaining your boat in good working order is a condition of warranty, as well as an important safety habit. It will add to the resale value. Implement a routine for periodic maintenance, including daily checks. Consult your MasterCraft dealer.

Briefing Passengers

On every outing, make sure that at least one passenger is familiar with the operation and safety aspects of the boat, in case of emergency. Show all passengers the location of emergency equipment and how to use it.

Courtesy

For the most part, boaters are a friendly and courteous group. Know the rules of the road and learn the peculiar patterns of any body of water. Give fishermen and sailors plenty of room. Look for personal water vehicles. Keep speeds down in congested and restricted areas.

Always check with local authorities for specific local laws before operating on area waterways.

You are responsible for spotting and avoiding swimmers and slow-moving vessels. You are also responsible for any damage caused by your wake. Don't throw refuse overboard or discharge liquids such as oil.

Help to keep boating fun for everyone! Ask your local Coast Guard Auxiliary or state boating authorities for more information on boating courses and safety instruction.

Storage

Proper storage of your boat and trailer during the off-season will make re-activating a lot easier. A few hours of preparation can save both time and money the following spring. Consult your MasterCraft dealer for storage supplies or services.
The MasterCraft Limited Warranty

MASTERCRAFT warrants to the original retail purchaser that each new boat is free from structural defects in material and workmanship under normal use and when operated and maintained according to the operator's instructions, for a period from:

I. Date of purchase of the deck, hull, liner and stringers for as long as the original retail purchaser owns the boat.

In addition to the Limited Warranty, MasterCraft offers a Transferable Five-Year Limited Warranty covering the deck, hull and stringer system. This policy may be transferred (for a nominal fee) to subsequent purchasers during a period of five (5) years from the date of delivery to the original retail purchaser.

Any warranty coverage remaining during the time specified in paragraphs II and III will automatically transfer to any subsequent owner(s) who pays the warranty fee.

Exception: This five (5) year warranty does not cover the gelcoat or any other components fastened or applied to the hull or deck. Gelcoat discoloration, blisters or bubbles and cracks are not considered structural defects.

II. One (1) year on component parts manufactured by MasterCraft.

Subject to the terms of the Limited Warranty, any covered boat or part with structural defects in material or workmanship that is returned to MasterCraft's authorized repair facility or factory during the above stated warranty periods will, at MasterCraft's option, be repaired or replaced without charge to the owner. The terms of this Limited Warranty are as follow:

I. MasterCraft shall repair or replace at its option, any item that proves defective upon examination by MasterCraft's authorized personnel.

II. MasterCraft warrants said repairs or replacements for the remainder of the warranty period.

III. MasterCraft shall fulfill its obligation to repair or replace the defective item at its factory or authorized repair facility.

IV. MasterCraft's obligation under this warranty shall be limited to the repair or replacement of any item judged defective by MasterCraft.
V. The owner shall be responsible for transportation of the boat or part(s) to the authorized MasterCraft facility and for any return transportation cost of said item.

MASTERCRAFT BOATS ARE MANUFACTURED BY TRAINED CRAFTSMEN FROM HIGH-QUALITY MATERIALS AND COMPONENTS. However, conditions outside MasterCraft's control require specific exclusions from coverage under this warranty. The MasterCraft Warranty does not include the following:

I. Any damage or repair required because of misuse, negligence, accident, collision or impact with any object; or any improper alteration or repair.

II. Any boat used for speed, commercial competition or performance demonstration.

III. Any boat which is: (a) used for rental or other commercial or industrial purposes; (b) used in boat racing, demonstrations or similar events; (c) altered, modified, repaired or replaced so as to increase the cubic-inch capacity or horsepower output of the engine and boat as originally manufactured.

IV. All component parts and accessories not manufactured by MasterCraft, including but not limited to: propellers, shift and throttle control levers and cables, pumps, blowers, windshields, canvas, upholstery, instrumentation and steering systems. However, where any such items are warranted by a component or accessory manufacturer, MasterCraft will, if possible, furnish the manufacturer's warranty document to the owner.

V. Limited Warranty on the deck, hull and liner covers only the named items and does not include hardware and other components fastened or adhered to the hull, deck or liner.

VI. Paints, varnishes, gelcoat surfaces and colors, finish distortions, chrome-plated or anodized finishes, floor and floor covers and any other surface coatings. IMPORTANT: MasterCraft has been made aware that an increasing number of owners are leaving their boats in the water for long periods of time. Although MasterCraft uses the highest-grade NPG gelcoat materials, a condition may develop where the bottom may show signs of discoloration and/or blisters. Should this condition occur, it will not be covered by warranty from MasterCraft or its suppliers. It is suggested that for boats required to stay in the water for long periods, a good bottom paint should be applied for additional protection.

VII. Liability for special or consequential damages, such as, but not limited to consequential relating to, for third party claims against the purchaser, or damages for loss of profit. Any implied warranty of merchantability, fitness for a particular purpose, or otherwise, are limited to the duration of the applicable express warranty.

VIII. "Note: To the extent any provision of this warranty is prohibited by federal, state or local law and cannot be pre-empted, it shall not be applicable. This warranty gives you specific legal rights and you may also have other rights which vary from state to state."

MasterCraft Boat Company, Inc., 100 Cherokee Cove Drive, Vonore TN 37885
MasterCraft Trailers

......Trailering and Launching
With the purchase of your new, custom-built MasterCraft trailer you have added value to your MasterCraft boating enjoyment. You can now enjoy almost any of the thousands of recreational waterways in the country.

As the manufacturer, MasterCraft has provided you with a vehicle designed specifically for many years of attractive, convenient, trouble-free service. Now, it is up to you to give it proper care and maintenance to be sure it will continue to perform safely and satisfactorily.

The purpose of this section of the owners manual is to help you do just that. Please read and follow its warnings and instructions carefully. Also, because all trailers are not exactly alike, be sure to read and comply with any warnings and additional information supplied by MasterCraft in your owners packet about your specific model. It's the best way to obtain peak performance.

**WARNING**

Before towing this trailer, be sure to read and familiarize yourself with the section of your owner's manual.

**Never Tow This Trailer Before You Check To Be Sure:**

- The transom saver is installed and secured for travel.
- Coupler, hitch and hitch ball are of the same size.
- Coupler and safety cables are safely secured to the hitch.
- Check all fasteners for proper tightness.
- The boat is securely anchored to the trailer. (The winch strap is not a satisfactory tie-down.)
- The wheel lug nuts are properly tightened.
- The wheel bearings are properly adjusted and maintained.
- The load is within the maximum load-carrying capacity of both the trailer and of the tow vehicle.
- The tires are properly inflated.
- All trailer lighting is working properly.
- Trailer brakes are properly adjusted and working, if the trailer is so equipped.
This trailer is manufactured to meet the applicable federal safety standards. Check the local and state requirements regarding any additional equipment that may be required.

**NOTE:** Trailer laws covering such things as brakes, lights, safety cables, licenses, etc., will vary from state to state. Be sure that your trailer is in full compliance with applicable state laws. Your MasterCraft dealer can help you in this regard. Otherwise, contact your nearest state motor vehicle department.

The key to carefree boat trailering is the proper match of boat to trailer. This proper match is only one reason why the MasterCraft Engineering Department has designed your trailer to carry the full weight of your boat, engine and gear. It also provides the proper support for the boat hull.

**A Proper Match**

**WARNING**

**Load-Carrying Capacity**

Check the metallic certification label attached to the left, forward side of your trailer. It will show the maximum load-carrying capacity of the trailer. It will also show the Gross Vehicle Weight Carrying Rating (GVWR), which is the load-carrying capacity plus the weight of the trailer itself. Be sure that the total weight of your boat engine, gear and trailer do not exceed the GVWR.

If you don't know the correct weight of your boat once it's loaded with gear, don't guess. Have it weighed. This usually can be done at a local lumber yard, feed and fertilizer store or truck weight station.

Be especially careful to avoid overloading your trailer by putting in heavy baggage, camping gear, etc., inside the boat.

Don't tow the boat with a water-filled bladder for kneeboating. Empty the contents or the tongue weight will be incorrect.

**Weight Distribution**

Improper weight distribution can cause a boat trailer to fish-tail (sway from side-to-side) as it moves down the highway, putting excessive strains on both trailer and towing equipment, increasing gas consumption and sometimes causing an accident. The most effective way to guard against fish-tailing is to make sure the weight load on your trailer is properly distributed.
It is extremely important that 5-to-10-percent of the total weight of your loaded trailer should be felt at the trailer coupling ball when the tongue is parallel to the ground. A bathroom scale can be used for this determination.

For example, if the gross weight of the trailer, boat and gear is 3,000 pounds, the weight on the tongue should not be more than 300 pounds, but not less than 150 pounds. (Some auto manufacturers say that tongue weight should not exceed 200 pounds when using a weight-carrying bumper-mounted hitch with full-sized cars.)

The importance of an adequate download on the hitch ball cannot be over-emphasized.

\[ \text{WARNING} \]

**T**here are two basic types of trailer hitches: a weight-carrying hitch and a weight-distributing hitch. A weight-carrying hitch is recommended for your MasterCraft. Before deciding which type of hitch to use, consult your automobile manufacturer on recommendations for your car or truck.

Be sure that the total weight of your trailer-boat rig does not exceed the hitch's load capacity. The maximum weight it can handle is stamped on the hitch. \textit{Also, be sure the hitch ball is the correct size to match the coupler on your trailer.} The correct ball diameter is marked on the trailer coupler. The hitch also should provide a place for attaching the trailer's safety cables—two rings or holes on either side of the hitch ball.

A truck or van using a step bumper as the hitch platform will need to have safety cable attachments such as eye-bolts, as well as a hitch ball, installed according to the Society of Automotive Engineers SAE J684 Standard. Installing a light or heavy-duty hitch can be a major undertaking. The hitch and its installation should meet the SAE J684 Standard. It is recommended that you have the job done by a professional. Your dealer can advise you.

To insure that the boat is riding properly on the trailer supports, the trailer should be in a level position when hitched to the tow vehicle. More importantly, if the coupler is much lower than the rear end of the trailer, it may prematurely activate the surge brakes. This can be corrected in a number of different ways. For example, you may install air-pressure adjustable shock absorbers on the tow vehicle, or switch from a weight-carrying hitch to a weight-distributing hitch. Again, consult your tow vehicle dealer.
Serious injury or property damage can result if the total weight on your loaded trailer exceeds the capacity of the hitch on your tow vehicle.

THE SAFETY CABLES ON YOUR MasterCRAFT TRAILER PROVIDE ADDED INSURANCE that it will not become detached from the towing vehicle when underway. Before each trip, you should make sure that the proper cables are correctly attached between the towing vehicle and the trailer.

As noted above, your trailer hitch should provide a place for attaching safety cables, holes or rings on both sides of the hitch ball. It is strongly recommended—and in fact, most states require it—that you crisscross the cables under the trailer tongue. The cables on the left side of the trailer tongue should be attached to the hole or ring on the right side of the hitch ball, and the right cable should be attached to the hole or ring on the left side of the hitch ball. This will prevent the trailer tongue from dropping to the road if the trailer coupler separates from the hitch ball.

The chains should be rigged as tight as possible, with just enough slack to permit tight turns. If for any reason you should find it necessary to replace a safety cable, do not substitute with any part other than a genuine MasterCraft part.

Loss of safety cables could result in a run-away trailer if the trailer coupler becomes detached from the hitch.

Upon each use of the winch, check for the proper ratchet operation. Do not use the winch if it is damaged. Seek immediate repairs.

Maintain a firm grip on the winch handle at all times. Never release the handle when the ratchet lever is in the unlocked position with a load on the winch. The hand will spin violently under these conditions, which could cause personal injury.

Never use the winch handle as a handle for pulling or maneuvering the entire trailer or other equipment. Never pull on the winch handle against a locked ratchet.

Never exceed the rated capacity of the winch. Excessive loads may cause premature failure and result in serious personal injury.

Never apply a load on the winch with the line fully extended. Keep at least three full turns of line on the reel.
Secure properly. When the winching operation is completed, do not depend on the winch to support the load.

Inspect the condition of the winch line. Using one that is damaged or worn can result in serious personal injury or damage to the boat.

It is not recommended to use the winch as the sole method for loading the boat onto the trailer. However, it is satisfactory in assisting in the event of engine power loss.

Check the winch straps frequently. The strength in these can deteriorate from exposure to weather, ozone and ultraviolet light. If a strap becomes frayed or worn, replace it immediately with a new one.

A heavy grease should be applied to the gears to provide a free-running drive and to minimize the effort you have to expend to crank the boat on the trailer.

**Hinged Tongue Warning**

Attention should be paid to the following warning label:

![Warning Label]

**Trailer Coupling**

Your trailer coupling is designed to have the required strength when a hitch ball is in its socket. It is therefore necessary to exercise care when the trailer is disconnected from the hitch that the coupling is not subjected to any impact.

![Warning]

The coupling should not be allowed to lay on the ground where dirt and sand can enter the socket. This can cause excessive wear when the trailer is towed again, or it can cause the locking mechanism to jam.
If the coupler becomes damaged, it must be repaired or replaced before towing. When the coupling is placed on the ball, the latch should close firmly. Keep the latch mechanism lightly oiled and clean.

**WARNING**

A special wiring harness for connecting the trailer lights to the lighting system of the tow vehicle comes with your trailer. Be sure the white ground wire from the connector is attached to the frame so that the hitch ball does not have to act as an electrical connection.

**Lights**

*NOTE: Some late-model cars have yellow turn signals and separate (red) stop lights. In this case, a special wiring adapter will have to be installed on the automobile.*

Here are a few things you can do to keep your trailer lighting system in good working order:

- Be sure the white ground wire is properly connected to the trailer frame. Replace any parts that are damaged or badly worn.

- A small amount of waterproof grease on the plug contacts and light bulb bases will help to prevent rust and corrosion.

- Before every trip, check for burned-out or broken bulbs, cracked or broken light lenses, etc.

**WARNING**

To reduce the risk of serious injury or property damage, make certain that all the trailer lights are in proper working order.

Because they are often exposed to water, trailer wheels and tires require more attention than the wheels on your family car. The three major items to check are lug nuts, lubrication and the tire pressure.

**Wheels and Hubs**

**WARNING**

Maintain the proper torque on the lug nuts or wheel bolts. Failure to do so may result in serious injury or property damage.

Always keep the wheel bearings lubricated. Failure to do so may cause bearing failure and possible wheel loss, resulting in serious injury or property damage.
Lug Nuts/Wheel Bolts

Loose lug nuts can cause more than just an annoying wheel wobble—you could lose a wheel. Before each trip, check for loose or missing lug nuts.

When tightening the lug nuts, use the correct-sized wrench. The wrong size can round-off the lug nuts and render them useless. If you lose a lug nut, replace it promptly. Take special care to insure the replacement lug nut is the correct type. While the threads of the lug nut may match, it may be a size that does not hold the wheel securely against the hub, even when fully tightened. Be certain a replacement lug nut is an exact match for the original.

Lubrication

Your MasterCraft trailer is equipped with easy lubricating hubs. However, water invades and seeps through the smallest opening. When a warm hub is submerged in cold water, any air inside the hub will contract and draw water through the best of seals.

Your best protection against wheel bearing damage from water is to always keep your wheel assembly fully lubricated. If the wheels have been in the water, the bearings should be re-packed if the trailer remains unused for two weeks or longer. When on a trip, make it a habit to check the wheel hubs every time you stop for gas or refreshments. If the hub feels abnormally hot, the bearings should be inspected before continuing your trip.

Tires

The most common cause of trailer tire trouble is under-inflation. It is important, therefore, that you always maintain correct air pressure, as indicated by the tire manufacturer on the tire's sidewalls. Always check the air pressure when the tires are cold. Tires heat up and the air pressure increases after traveling only short distances. Inflate tires to the proper air pressure as noted on the sidewall of the tires.

When your trailer tires become worn or damaged, replace them with new tires. Your MasterCraft dealer can help you.

For safety and convenience, it is recommended that you always carry a spare wheel and tire.
Keep your tires properly inflated. Failure to maintain the correct pressure may result in tire failure and loss of control, resulting in serious injury or property damage.

**WARNING**

In most states, trailers with a Gross Vehicle Weight Rating (GVWR) of 1,500 pounds or more are required by law to have brakes on all wheels. (Auto manufacturers generally recommend brakes with even lighter trailers.)

Your **MasterCraft** trailer brakes are designed to operate automatically when the tow vehicle's brakes are applied. These are known as surge brakes. When the tow vehicle slows down or stops, the forward momentum (surge) of the trailer against the hitch ball applies pressure to a master cylinder in the trailer coupler. This pressure activates the trailer brakes through a hydraulic system, much like the brakes on your automobile.

Your surge brakes do not have an automatic brake lining adjustment system. They should be adjusted regularly to compensate for wear, depending on how often you use your trailer. Trailer brake adjustment must be checked regularly to prevent braking failure.

Try out your brakes before each trip. On a regular basis, have your brake linings inspected, necessary adjustments made and any damaged or worn parts replaced.

Wet brakes usually do not hold very well. If your wheels have been in water, several brake applications at slow speeds will dry them out.

**WARNING**

Trailer brakes must be maintained in good working condition. The loss of adequate braking could result in serious injury or property damage.

**MASTERCRAFT** RECOMMENDS USING THE JACK TO LIFT THE COUPLING OF A loaded trailer from the hitch ball and for moving the trailer about when it is disconnected from the towing vehicle. The trailer jack should be lowered to a minimum position and tilted horizontally before moving the trailer.

Like any mechanical assembly, a jack requires maintenance to function properly over a long period of time. The drive gear and the rack and pinion should be greased. The caster and wheel bearing should be oiled frequently.
Ti-e-Downs

Ensuring that your MasterCraft is held securely in place on the trailer's hull support, especially when underway, is extremely important. If it is not firmly and properly secured, your boat can be damaged as it bounces against the hull supports. All the necessary tie-down hooks for holding your MasterCraft are provided on your trailer.

MasterCraft's Boat Buddy System is located on the winch stand. A separate tie-down strap is provided and should then be attached to hold the boat down to the trailer. Besides keeping your boat from sliding off the rear if the Boat Buddy latch would fail, it will keep the boat on the trailer during quick stops or minor collisions.

As noted previously, it is very important to be sure that the transom of your MasterCraft is resting fully and securely on the supports provided at the rear end of the trailer, and that it remains in place when parked or underway. Special rear tie-down straps are available from your MasterCraft dealer as an option for this purpose.

Check often to be sure that the rear tie-downs are securely locked in place and that they are tight enough to prevent any movement of the boat. Check by rocking the boat on the trailer. If it does not remain firmly in place on the supports, tie-downs should be tightened or re-rigged. The strength of the rear tie-downs should at least equal the trailer's empty weight.

Hitching Up

Before trailering, avoid accidents.

1. Hitch only to the ball-size marked on the coupling.
2. Be certain the ball clamp captures the ball and lever or the handwell is fully closed or tightened.
3. Cross the safety cables under the coupling.
4. Allow only enough slack in the safety cables to handle turns.
When hitching your trailer, you should always observe each item of the "Trailer Check List" on page 80. Hitching your trailer to your tow vehicle can be a one-man job, but it is easier if you have a second person to help you. Here are the basic steps:

Break your tow vehicle as close as possible to the trailer. It's easier—and safer—than pulling the trailer to your car or truck.

Check to be sure the coupler-locking device is released.

Raise the front end of the trailer with your jack, position the coupler directly over the hitch ball and lower until it is all the way down over the ball.

Check under the coupling to be certain that the ball clamp is BELOW THE BALL and not riding on top of the ball.

Lock the coupler to the hitch ball. To be sure it is in the locked position and securely in place, raise up on the trailer tongue. If it comes loose from the ball, unlock and go back to the third step above.

Be certain the jack is in the fully raised and locked position.

Your MasterCraft trailer has a surge brake break-away cable. Attach it to the tow vehicle, making sure there is enough slack for tight turns.

Attach the safety cables. (See page 55.)

Connect the trailer wiring harness to the lighting system of the tow vehicle. Check the operation. (See page 57.)

With a boat trailer in tow, you are operating a vehicle combination that is longer, heavier and sometimes wider and taller than your car or truck. This means you will have to make a few adjustments in your normal driving practices to compensate for the difference. Here are a few tips to help you enjoy trailering:

- Take a shakedown cruise. Before you make your first major trip or first trip to the lake with your trailer, make at least one short trial run to familiarize yourself with its handling characteristics. Be sure everything is working properly.
**Slow down.** There is less strain on your car, trailer and boat at moderate to slow speeds. Also, many states have lower speed limits for vehicles towing trailers.

**Allow extra time and space.** You'll need more of both when passing and stopping.

**Check the rear view mirrors.** Install outside rear view mirrors on both sides of the tow vehicle. Make it a habit to check the mirrors at frequent intervals to be sure your trailer and boat are riding properly.

**Swing wider.** Trailer wheels are closer to the inside of turns than the wheels on your car or truck. This means you should swing wider at curves and corners.

**Pass with extra care.** With a trailer in tow, you'll need more time and distance to accelerate, get around a slower vehicle and return to the right lane.

**Watch the wind.** Be prepared for sudden changes in air pressure and/or wind buffeting when larger vehicles pass you from either direction. Slow down a little and keep a firm hold on the steering wheel.

**Conserve fuel.** Wind resistance against the boat and trailer can reduce your gas mileage significantly, especially at higher speeds.

**Avoid sudden stops and starts.** Even though your trailer has brakes, a sudden stop could cause it to skid, slide or even jackknife. (Be especially careful to avoid the necessity for quick stops while turning.) Smooth, gradual starts and stops will improve your gas mileage and put less strain on your tie-downs, etc.

**Signal your intentions.** Well before you stop, turn, change lanes or pass, use your light signals to let other vehicles know what you intend to do.

**Shift to a lower gear.** If your tow vehicle has a manual transmission, traveling in lower gears when going up steep hills or over sand, gravel or dirt roads will ease the load on your engine and transmission. If your tow vehicle has an overdrive gear (manual or automatic) you may get better gas mileage in a lower gear. Check the automobile owner's manual for their recommended towing specifications.
Always be courteous. Make it as easy as possible for faster-moving vehicles to pass you. Remain in the slower lane and be prepared to slow down if they need extra time to return to their proper lane.

Don’t tailgate. Allow at least one combined-car-and-trailer-length between you and the car ahead for every 10 MPH you are traveling.

If a problem occurs, the general rule is to stay calm. Don’t panic and don’t do anything any more suddenly or violently than you have to.

A sudden bumping or fish-tailing may be a flat tire. Don’t jam on the brakes or mash the accelerator to try to drive out of it. Stop slowly and in as straight a line as possible. If conditions permit, allow your rig to coast to a very slow speed and try to avoid braking, except when your wheels are straight ahead and the trailer and your tow vehicle are in line.

If your trailer begins to fish-tail as you accelerate to highway speed, back off a little and it should cease. If it begins again as you accelerate, stop and check your load. If it is not evenly distributed side-to-side, or it is too far back so that the hitch load becomes too low, the result can be this condition. Re-distribute the load before continuing.

Every MasterCraft owner develops their own favorite launching technique. Until you do, here are a few helpful tips:

✔ Check the ramp first. Whether you’re launching from an unimproved or surfaced ramp, check it out before starting your launching procedure. How steep is it? Is the surface firm enough to support the weight of the trailer rig and tow vehicle? Is it wide enough? How deep is the water at the end of the ramp?

Some surfaced ramps become very slippery when wet.

⚠️ CAUTION

✔ Prepare for launching. Install your drain plugs and detach the trailer tie-downs.

✔ Back your trailer down to the ramp. If possible, have someone stand to one side of the ramp to direct you. Backing up a trailer can be tricky. A good way to simplify the procedure is to grasp the steering wheel with one hand at its lowest point (6 o’clock). When you want the trailer to go right, move your hand on the wheel to the right; to make the trailer go left, move your hand to the left.
Back your trailer into the water until the trailer tire wheel well is about two inches from the top of the water surface. Set the parking brake and shift into park (automatic transmission) or first gear (manual transmission). Shut off the engine. Unlock the Boat Buddy latch and winch hook; then back the boat off the trailer.

To re-load the boat on the trailer, simply reverse the above procedure and drive your MasterCraft on the trailer at a slow pace. Before loading, we recommend you clean any dirt or sand off the rollers and bunks. Sand on these can abrade the boat’s bottom while trailering.

Be certain all the boat tie-downs are properly fastened before departing from the launching ramp area.

**CAUTION**

Wet brakes may not hold. A few braking applications at a slow speed will help dry them out.

**Storage**

When your MasterCraft trailer will not be in use for several months, you can help it continue to give you good performance by taking the following steps:

- If at all possible, park your boat-trailer rig in a protected area such as a garage, carport or similar shelter.
- If you must park the trailer outdoors, install a boat cover that is tight enough for adequate protection but not air-tight.
- Service or re-pack the wheel bearings.
- Jack up the trailer and place blocks under the trailer frame to take most of the weight off the trailer springs and tires.
- Loosen the tie-downs and winch strap, but be sure the boat is still resting properly on the hull supports.
- Remove the drain plug and elevate the trailer tongue slightly (just an inch or two) to allow water to drain out so the boat will be dry. Tie the plug to something obvious—like the steering wheel—so you will remember to replace the drain plug before your next trip!
- While the trailer is in storage, this is a good time to touch up rust spots, nicks and chips. Replace damaged tie-downs, winch straps, wiring, etc.
Lubricate moving parts such as the rollers and winch, as well as the ball coupler.

Tighten any loose nuts and bolts.

The jack and lug wrench that came with your tow vehicle may also work on your trailer, but don’t count on it! Check to make sure.

Your trailer will look better and last longer if you rinse it off with fresh water several times a year. If you boat in brackish or salt water, the trailer should be rinsed thoroughly after every trip. An annual washing with a mild detergent and waxing with an auto wax also will help to keep your trailer bright and clean.

Make up a special Boating Kit and carry it with you on all trips. The kit should include a spare wheel and tire, lug wrench, wheel chocks, bearing grease, spare line (for tie-downs and winch) extra lights, wheel bearings and road flares.

Some insurance policies do not provide coverage when towing a trailer. Check your policy, or call your insurance agent to be sure you are fully covered.
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Warranty Registration

MasterCraft
BOAT COMPANY
100 Cherokee Cove Drive
Vonore TN 37885

Request for Warranty Transfer

MasterCraft is proud to offer the transferrable hull and deck warranty. In accordance with the MasterCraft Limited Warranty, the remaining warranty against structural defect in this hull and deck will be transferred to the new owner when the following has been accomplished and verified:

- Receipt of this completed form
- Copy of the sales invoice
- Payment of $250 within fourteen (14) days of the sale date.

Upon verification, the remaining warranty will transfer, retroactive to the sale date.
WARRANTY REGISTRATION

Type of Warranty:  □ New Boat  □ Promo

Dealer __________________________________________ Phone __________________________

Address __________________________________________

City __________________________ State _______ Zip ________________

Boat Serial Number __________________________________ Model Year ________________

Trailer Serial Number __________________________ Make __________________________

Engine Make __________________ Serial No. __________ Trans Type __________ Serial No. __________

PLEASE PRINT

Sales Person ____________________________

Owner's Name ____________________________

Street Address ____________________________

City __________________________ State _______ Zip ________________

Home Phone __________-________-________ Work Phone __________-________-________

Date of Purchase __________-________-________ Owner Signature ____________________________

(must be signed)

Be sure to enclose payment and a copy of the purchase receipt within 14 days of the sale date.
Warranty Registration Department
MasterCraft Boat Company
100 Cherokee Cove Drive
Vonore, Tennessee 37885