Mastercraft Trailer Manual
CONGRATULATIONS ON YOUR CHOICE OF A MASTERCRAFT TRAILER. It’s the ideal match for MasterCraft boats. The quality, innovation, selection and value of MasterCraft trailers are unmatched in the industry.

Please take a few minutes to read this Manual completely before the use of your MasterCraft trailer for the first time. It will help answer most of the remaining questions you may have about your new trailer. If you still have questions after reviewing this Manual, be sure to contact your MasterCraft dealer. It is important for you to approach your trailering experience with confidence and as much knowledge as you can.

All information in this Manual 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 in specifications and models at any time. We also reserve the right 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.

Due to changes in specifications, models, parts and/or accessories which may occur after publication of this Manual, the Manual may not continue to be fully accurate. The illustrations used in this Manual are intended only as representative reference views and may not depict actual model component parts. Information about certain components furnished by suppliers other than MasterCraft is provided separately. This information is available from your dealer.
Note: The information given in this Manual may not be applicable to international rules of the road. If you have any questions, please contact your local authority.

Visit us on the web at www.mastercraft.com for updates and additional information as it becomes available, as well as for any future potential service bulletins, advisories or other critical information pertaining to your trailer. If you have specific questions about your MasterCraft trailer, feel free to contact your dealer for additional information and guidance.

MasterCraft Boat Company
100 Cherokee Cove Drive, Vonore TN 37885

The maintenance, service and repair procedures described in this Manual should be performed only by trained and authorized factory personnel or dealer technicians. To avoid serious injury or damage to the boat or its components, all steps in each procedure and all safety recommendations should be strictly observed. Failure to follow the procedures and safety recommendations described herein will void any and all warranties and may cause personal injury or damage to components and adversely affect the operation of the trailer. CONSUMERS SHOULD NEVER ATTEMPT TO UNDERTAKE THE MAINTENANCE AND REPAIR PROCEDURES DESCRIBED IN THIS MANUAL.

WARNINGS AND CAUTIONS

Throughout this Manual the terms “WARNING” and “CAUTION” appear, alerting the trailer owner or operator to dangerous or potentially dangerous situations that may arise. Those terms have the following respective meanings whenever they appear herein.

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

WARNING indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.
CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Failure to adhere to and comply with the safety warnings and cautions that appear in this Manual can lead to serious illness, injury or even death and/or damage to your trailer or the property of others. Beyond these warnings, drivers have a personal responsibility to utilize a common sense approach to the towing experience. The consumer is ultimately responsible for a positive and safe involvement in towing and maintaining safety standards for the trailer.

MasterCraft strongly encourages you to cross-reference and read all warnings and cautions set forth in this Manual within the context in which they are presented, by reading and reviewing the entire section of the Manual which relate to each warning and caution. You MUST also be familiar with state and local ordinances regarding driving and towing. MasterCraft also recommends a thorough review of your insurance coverage and your insurance carrier’s restrictions and coverage for towing, as well as a review and adherence to recommendations presented in the tow vehicle’s owners manual.

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

1. Before towing this trailer, be sure to read and familiarize yourself with this Manual. (Page 6)
2. The total weight of your boat, engine, fuel, water and gear must not exceed the trailer’s maximum load-carrying capacity. Overloading can cause serious injury or property damage. Note: The Gross Vehicle Weight Rating ("GVWR") is the estimated total weight of a road vehicle that is loaded to capacity including the weight of the vehicle itself. Therefore, the maximum load-carrying capacity of the trailer is the GVWR less the weight of the empty trailer. (Page 7)
3. Towing with water-filled bladder(s) may not only cause the total weight limits for the trailer to be exceeded but may also result in the improper distribution of the weight on the trailer thereby making towing difficult and/or causing instability when towing, which can be very dangerous to you and to other motorists. NEVER tow with water in the ballast bladders or tanks! (Page 7)
4. Do not tow boat with wakeboards or skis in the boat or ski racks. Doing so may create a hazard for, or cause damage to, vehicles following behind you as the boards and/or skis may become disengaged while traveling possibly resulting in damage to your vehicle or boat, which damage would not be
covered by your warranty. (Page 7)

5. If the total weight on your loaded trailer exceeds the load capacity of the hitch on your tow vehicle, then the trailer may break free, which may result in serious injury or death and/or property damage. (Page 9)

6. Failure to properly attach the safety cables and brake actuator breakaway cable between your trailer and the tow vehicle may result in a run-away trailer if the trailer coupler becomes detached from the hitch, which may cause serious injury or death and/or property damage. (Page 10)

7. Failure to properly engage the hitch ball in the coupler ball socket and to securely lock the coupler latch mechanism can cause the trailer to become detached from the tow vehicle while traveling, which may result in serious injury or death and/or property damage. (Page 12)

8. Make certain that all the trailer lights are in proper working order, to reduce the risk of serious injury, death and/or property damage. (Page 13)

9. Maintain the proper torque on the lug nuts attached to the wheel bolts. Failure to do so may result in serious injury or property damage. Your MasterCraft dealer can provide you with the proper torque specifications (measured in foot-pounds). (Page 14)

10. Keep the wheel bearings lubricated. Failure to do so may cause wheel failure and possible wheel loss, which may result in serious injury or death and/or property damage. (Page 14)

11. Keep your tires properly inflated. Failure to maintain the correct tire pressure may result in tire failure and loss of control, which may result in serious injury or death and/or property damage. (Page 17)

12. Maintain trailer brakes must be maintained in good working condition at all times. The loss of adequate braking could result in serious injury or death and/or property damage. (Page 17)

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

1. Use great care when walking, standing or loading and unloading boats on or around any launch ramps as some launch ramps may be slippery when wet. (Page 22)

2. Wet brakes may not hold and/or may cause brakes to have diminished performance characteristics. A few braking applications at a slow speed will help to dry them out. Extra care must be used when braking after brakes have become wet. (Page 22)
Quick Tips

Here are some quick tips for maintaining your trailer in tip-top condition.

• Chips in the paint, especially on the axles and frame result when these surfaces are subjected to repeated or severe hits by external objects. Usually, these are gravel or asphalt chips thrown up by the rear tires of the tow vehicle. Over time, rust may develop where paint has been chipped away and this is not covered by the Limited Warranty for the trailer. To avoid this, consider attaching mud flaps behind the tow vehicle’s rear tires. Exceptional care should be taken to travel as slowly as practical when traveling on gravel or other loose surfaces.

• To ensure proper operation of the trailer jack, wipe it down and lubricate it on a regular basis.

• If the trailer is backed into salt water, you must completely and thoroughly wash the trailer to retard rusting. Salt water is very corrosive, even on galvanized trailers and can corrode the brake system as well. Exposure to salt water can also cause brake pads to stick and malfunction.

• Check the braking system in the spring and again in the fall, along with the wheel bearings. If you find anything that appears to be worn, take the trailer to your MasterCraft dealer for a check and possible repair.

• Tow vehicles must always approach the trailer slowly as you prepare to load your boat. This will allow you to retain greater control. Hard impact with the trailer or improper alignment on the trailer can result in damage to the boat, the trailer or both, and this is not covered under warranty. Also, if your trailer is equipped with the Boat Buddy System, a hard hit against it could cause damage, which is also not covered by warranty.

• The tow vehicle must have a seven-wire connector in order for disc brakes and the trailer lights to function properly. It is important to properly connect the seven-wire connector on the trailer to the seven-wire connector on the tow vehicle.
Introduction

With the purchase of your new MasterCraft trailer, custom-built to integrate with your MasterCraft boat, you have added value to your boating experience. You can now enjoy almost any of the thousands of recreational waterways in this country.

As the manufacturer, MasterCraft has provided 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 Manual is to help you do just that. Please read and follow the 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 and parts suppliers within your owner’s packet. It’s the best way to obtain peak performance.

Before towing this trailer, be sure to read and familiarize yourself with this Manual.

A Proper Match

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 a reasonable amount of gear. It also provides the proper support for the boat hull during storage.
The total weight of your boat, engine, fuel, water and gear must not exceed the trailer’s maximum load-carrying capacity. Overloading can cause serious injury or property damage. NOTE: The Gross Vehicle Weight Rating (“GVWR”) is the estimated total weight of a road vehicle that is loaded to capacity, including the weight of the vehicle itself. Therefore, the maximum load-carrying capacity of the trailer is the GVWR less the weight of the empty trailer.

Load-Carrying Capacity

Check the metallic certification label attached to the front left side of your trailer. It will show the maximum load-carrying capacity of the trailer. It will also show the Gross Vehicle Weight Rating (GVWR). The Gross Vehicle Weight Rating (“GVWR”) is the estimated total weight of a road vehicle that is loaded to capacity, including the weight of the vehicle itself. Therefore, the maximum load-carrying capacity of the trailer is the GVWR, less the weight of the empty trailer. Be sure that the total weight of your boat, engine, gear and trailer do not exceed the GVWR.

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

Do not tow the boat with a water-filled bladder for wakeboarding. Empty the contents or the tongue weight will be incorrect.

Do not tow the boat with wakeboards left on the board racks. Doing so may void your warranty and cause damage to your boat or to vehicles following behind you as boards and/or racks may become disengaged.

Towing with water-filled bladder(s) may not only cause the total weight limits for the trailer to be exceeded but may also result in the improper distribution of the weight on the trailer thereby making towing difficult and/or causing instability when towing, which can be very dangerous to you and to other motorists. You should NEVER tow with water in the ballast bladders or tanks!

Do not tow boat with wakeboards or skis in the boat or ski racks. Doing so may create a hazard for, or cause damage to, vehicles following behind you as the boards and/or skis may become disengaged while traveling possibly resulting in damage to your vehicle or boat, which damage would not be covered by your warranty.
The correct method for determining the load limit is to:

- Locate the statement, "The weight of cargo should never exceed ______ kg or ______ lbs.," on the placard. (This figure equals the available amount of cargo and luggage load capacity.)
- Determine the combined weight of luggage and cargo being loaded on the vehicle. (That weight may not safely exceed the available cargo and luggage load capacity.)

**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, which increases gas consumption and may potentially cause 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 a minimum of 5-to-10 percent of the total weight of your 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. (Some auto manufacturers say that tongue weight should not exceed 200 pounds when using a weight-carrying, bumper-mounted hitch with full-sized cars.) Check the tow vehicle owner’s manual.

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

**The Trailer Hitch**

There are two basic types of trailer hitches: A weight-carrying hitch and a weight-distributing hitch. A weight-carrying hitch is recommended for use with your MasterCraft boat and trailer. Before deciding which type of hitch to use, also consult your automobile manufacturer on recommendations for your tow vehicle.
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. 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 should also 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, which has been 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 must meet the SAE J684 Standard. It is recommended that you have the job done by a professional. Your dealer can advise you.

To ensure that the boat is riding properly on the trailer supports, the trailer should be in a level position when hitched to the tow vehicle. The recommended height of the hitch ball, according to the National Marine Manufacturer’s Association (“NMMA”), is 18 to 20 inches to the top of the ball from the ground. More importantly, failure to adjust to this height 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 with your tow vehicle dealer.

In general, for Class 3 rigs (3,500 to 5,000 lbs.), a two-inch (2”) ball is the requirement. For Class 4 (5,000 to 10,000 lbs.), a ball of either 2” or 3-5/16” will be required.

If the total weight on your loaded trailer exceeds the load capacity of the hitch on your tow vehicle, then the trailer may break free, which may result in serious injury or death and/or property damage.
Safety Cables

The safety cables on your MasterCraft trailer provide added security that the trailer will not become detached from the tow vehicle when underway. Before each trip, you should make sure that the proper cables are correctly attached between the tow vehicle and the trailer.

As noted above, your trailer hitch should provide a place for attaching safety cables, through holes or rings on both sides of the hitch ball. It is strongly recommended, and most states require, that you crisscross the cables under the trailer tongue (e.g., 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 cables 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 cable.

Note that late-model trailers are equipped with a surge brake breakaway cable. This should be attached to the tow vehicle, making sure there is enough slack for tight turns.

Failure to properly attach the safety cables and brake actuator breakaway cable between your trailer and the tow vehicle may result in a run-away trailer if the trailer coupler becomes detached from the hitch, which may cause serious injury or death and/or property damage.

Trailer Winch Assembly

Prior to 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 because the handle will spin violently under these conditions, which may cause serious 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 injury.
Never apply a load on the winch with the strap fully extended. Keep at least two full turns of the strap that’s on the reel.

Inspect the condition of the winch strap. Using a damaged or worn winch strap may result in serious injury or damage.

It is not recommended to use the winch as the sole method for loading the boat onto the trailer. However, it is a satisfactory assistant 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.

The winch is intended solely as an aid to loading the boat on the trailer. It is not intended or adequate to be the sole means of holding the boat in place while trailering. Proper tie-downs fore and aft must be used.

**Warnings at Tongue**

Read and adhere to all warning labels, especially those that appear on the pivot tongue.
Master Cylinder Level

Regularly verify that the brake fluid level comes to the top of the reservoir (as marked). MasterCraft’s specification for brake fluid is type DOT3 Premium.

As part of an annual maintenance program, consumers should check the fluid level both at the beginning and at the end of the boating season. If at any time you suspect a braking issue, check the fluid level.

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 so that the coupling is not subjected to any impact.

Failure to properly engage the hitch ball in the coupler ball socket and to securely lock the coupler latch mechanism can cause the trailer to become detached from the tow vehicle while traveling, which may result in serious injury or death and/or property damage.

The coupling should not be allowed to lay on the ground where dirt or 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 re-
paired or replaced prior to towing. When the coupling is placed on the ball, the latch should close firmly. Keep the latch mechanism lightly oiled and clean. Always install a lock pin in the coupler to promote safety.

![WARNING]

Make certain that all the trailer lights are in proper working order, to reduce the risk of serious injury, death and/or property damage.

**Lights**

The MasterCraft trailer harness was specifically designed to mate with O.E.M. automotive equipment. This harness is designed to disengage the trailer brakes with the use of the tow vehicle's O.E.M. harness.

*Note: See your local dealer if your tow vehicle does not have the correct trailer harness.*

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 worn.
- A small amount of waterproof grease on the plug contacts and light bulb bases will help prevent rust and corrosion.
- Before every trip, check for burned-out or broken bulbs, cracked or broken light lenses, etc.
Wheels and Hubs

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 tire pressure.

Maintain the proper torque on the lug nuts attached to the wheel bolts. Failure to do so may result in serious injury or property damage. Your MasterCraft dealer can provide you with the proper torque specifications (measured in foot-pounds).

Keep the wheel bearings lubricated. Failure to do so may cause wheel failure and possible wheel loss, which may result in serious injury or death and/or property damage.

As part of the regular maintenance, keep the axle assembly properly lubricated. This procedure is best performed by your MasterCraft dealer. The fill plug in the hub nose must be removed so that 80- to 90-weight motor oil can be added. “Never-seize compound” should be applied to the fill plug, which is then re-installed and torqued to 7-ft-lbs. If at any time the oil in the hub appears milky, the system must be serviced immediately.

Lug Nuts or Wheel Bolts

Loose wheel mounting nuts (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/wheel bolts.

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. The correct size varies with different models, so you should verify the proper size with your MasterCraft dealer.
Take special care to ensure that 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.

Ensuring that lug nuts on trailer wheels are tight and properly torqued is an important responsibility that trailer owners and users need to be familiar with and practice. Inadequate and/or inappropriate lug nut torque (tightness) is a major reason that lug nuts loosen during use. Loose lug nuts can rapidly lead to a wheel separation, with potentially serious safety consequences.

- Check the lug-nut tightness often, especially during the first few hundred miles of the trailer’s use. You should always check torque at the beginning of any long trip and every time a wheel is removed.
- You must use a torque wrench to accurately indicate the amount of torque that you are applying to the lug nut. Four-way wrenches, ratchets, and similar tools can be useful for short-term emergency repairs but are not appropriate tools for accurately checking lug-nut torque.
- Keep a record of the date and approximate mileage when you check the lug-nut torque. Note any lug nut that has lost torque. Investigate the reason(s) if the lug nut torque is not maintained over more than one re-torque application because this indicates there is something potentially wrong with the lug nuts, nut studs, wheels and/or hubs and should be corrected.
- Contact your dealer immediately if you experience any persistent lug nut loosening or any other lug, wheel or axle problems.
- In the event of a wheel separation incident, notify your dealer. Seek prompt professional assistance in assessing the trailer and its gear, and retain, but do not re-use involved lugs, wheels and studs. Do not repair or service the trailer yourself. Instead, call a trained technician.

Use the following pattern to tighten lug nuts. On first torquing pass: Bring up to 45-ft-lbs. On second pass: Bring up to 70-ft-lbs. On third pass: Bring up to 90-ft-lbs.

Pattern for tightening lug nuts
Lubrication

Currently, trailers feature oil-bath bearings. Earlier models were equipped with easy lubricating hubs. However, water invades and seeps through the smallest of openings. When a warm hub is submerged in cold water, any air inside the hub will contract and draw water through the best of seals.

Trailers equipped with the Bearing Buddy II with Auto Check simplify the process of keeping watch for proper lubrication. If the blue ring is fully extended (about 1/4-inch extruded), you will have adequate lubrication. As the grease dissipates, the ring will move back into the shell. When the blue ring is flush with the Bearing Buddy shell, it is time to re-lubricate.

Your best protection against wheel bearing damage from the water is to always keep your wheel assembly properly lubricated. Periodically, view the sight window located on the axle hub and determine whether the lubricant appears milky. This would indicate water intrusion and the lubricant should be replaced. Also check the seals for damage. 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 and brakes should be inspected before continuing your trip.

Wheel Bearings and Braking System

Wheel bearings and the braking system on the trailer should be inspected annually. If the bearings or bearing race show signs of scoring, they should be replaced, as well as any worn brake parts. Your MasterCraft dealer should perform this inspection and repair.

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 short distances.
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 inflate tires to the air pressure indicated on the sidewall of the trailer tire and that you always carry a spare wheel and tire.

Keep your tires properly inflated. Failure to maintain the correct tire pressure may result in tire failure and loss of control, which may result in serious injury or death and/or property damage.

Brakes

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 even with 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.

Maintain trailer brakes must be maintained in good working condition at all times. The loss of adequate braking could result in serious injury or death and/or property damage.
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 especially well. If your wheels have been in water, several brake applications at slow speeds should dry them out.

**Trailer Jack**

MasterCraft recommends using the trailer 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. Rotate the trailer jack to the vertical position and engage the locking pin before placing a load on the trailer jack.

Like any mechanical assembly, the trailer jack requires maintenance to function properly. The drive gear and the rack-and-pinion should be greased, and the caster and wheel bearings should be oiled frequently. Failure to swing up the trailer jack before towing may result in damage to your trailer.

**Tie-Downs**

Ensuring that your MasterCraft boat 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.

MasterCraft’s Boat Buddy System is located on the winch stand. Ask your MasterCraft dealer to demonstrate the proper use of the Boat Buddy System. A separate winch strap is provided and should be attached to secure the boat to the bow stop.

Also, it is very important to be sure that the transom of your MasterCraft boat 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.
Tie-downs have been added on both the bow and transom of the boat and must be used while trailering.

**Hitching Up**

- Hitch only to the ball size marked on the coupler.
- Be certain that the ball clamp captures the ball and lever or that the handwell is fully closed or tightened. Insert safety pin or optional lock pin.
- Cross the safety cables under the coupling.
- 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,” found in this Manual. Hitching your trailer to your tow vehicle may be performed by one person, but it is definitely easier if you have a second person to help you.

Here are the basic steps:

- Slowly back 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 trailer jack, position the coupler directly over the hitch ball and lower the trailer until it is all the way down onto the hitch 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 confirm that the coupler is locked onto the hitch ball, lift up on the trailer jack. If the trailer jack comes loose from the hitch ball, unlock and go back to the third step above.
- Be certain that the trailer jack is in the fully raised and locked position.
• Attach the surge breakaway cable to the tow vehicle, making sure there is enough slack for tight turns.
• Attach the safety cables.
• Connect the trailer’s seven-wire connector to the seven-wire connector of the tow vehicle and check the operation of the lights.

**Trailer Tips & Techniques**

With a boat trailer in tow, you are operating a vehicle combination that is longer, heavier and sometimes wider and taller than your tow vehicle. 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 tow vehicle, 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.** If not already equipped, 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 tow vehicle. 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 hand 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 can cause it to skid, slide or even jack-knife. (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 turn 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 tow vehicle’s owners 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 reduce your speed if they need extra time to return to their proper lane.

• **Do not 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. Do not panic and do not do anything any more suddenly or violently than is necessary.

A sudden bumping or fan-tailing may be a flat tire. Do not 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 trailer and tow vehicle to coast at a very slow speed and try to avoid braking, except when your wheels are straight ahead and the trailer and tow vehicle are in line.

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

**Launching**

Every MasterCraft owner develops his or her 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 and tow vehicle? Is it wide enough? How deep is the water at the end of the ramp?
Use great care when walking, standing or loading and unloading boats on or around any launch ramps as some launch ramps may be slippery when wet.

- **Prepare for launching.** Install your drain plugs and detach the trailer tie-downs.
- **Slowly back your trailer down 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.
- **Slowly back your trailer into the water until the trailer tire wheel well is about two inches from the top of the water surface.** (This may vary with the angle of the ramp.) 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 procedures, including setting your Boat Buddy latch to the proper position, and drive your boat onto 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 sure to back in and completely wet the trailer bunks, then pull forward to the loading position.

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

Wet brakes may not hold and/or may cause brakes to have diminished performance characteristics. A few braking applications at a slow speed will help to dry them out. Extra care must be used when braking after brakes have become wet.
Storage

When your MasterCraft trailer will not be in use for several months, the following steps may increase the life and performance of the trailer:

- If at all possible, park your boat trailer in a protected area such as a garage, carport or similar shelter.
- Service or re-pack the wheel bearings.
- 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. So that you will remember to replace the drain plugs before your next trip, tie the plugs to something obvious—like the steering wheel of the boat.
- A good time to touch up rust spots, nicks and chips is when the trailer is in storage.
- 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.

Trailering Tips

- The trailer 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 your boat is 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 will also 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 strap 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.

Trailering Check List

Never tow this trailer before you check to be sure:

• 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 by itself is not a satisfactory tie-down!)*
• The wheel lug nuts are properly torqued (tightened).
• The wheel bearings are properly adjusted and maintained.
• The load is within the maximum load-carrying capacity of both the trailer and the tow vehicle.
• The tires are properly inflated.
• All trailer lights are working properly.
• Trailer brakes are properly adjusted and working.
• The tower on the boat (if so equipped) is secure, whether it is upright and locked in place or has been lowered. Also be certain that there is sufficient overhead clearance before removing the boat/trailer from cover, or when towing that the unit will clear any overhead items such as trees, bridges, overhead power lines, overpasses, etc.

This trailer is manufactured to meet the applicable federal safety standards at the time of manufacture. 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.*
Limited Warranty Statement

1. Limited Warranty and Term. MasterCraft Boat Company, LLC. ("MasterCraft") warrants to the original retail purchaser that the trailer shall be free from material defects in materials and workmanship to the extent set forth below, under normal use and when operated and maintained in accordance with MasterCraft’s instructions, for the period indicated:

1.1 Trailer and Trailer Component Parts. One (1) year from the date of the original retail purchase of the trailer or the initial use of the trailer, whichever occurs first.

1.2 Rubber Torsion Axles. A warranty period of five (5) years is extended to all Reliable rubber torsion axles and covers the axle beam only.

1.3 Leaf Spring Axles. A warranty period of one (1) year is extended to all Reliable leaf spring axles and covers the axle beam only.

1.4 Assembled Units with Lube Systems (Sure Lube, Bearing Lube, Oil Bath). A warranty period of three (3) years is extended to all assembled units with Lube Systems. This warranty excludes brakes, which are subject to the brake manufacturer’s warranty. Any disassembly of the unit or replacement of parts from within the unit voids this warranty.

1.5 Assembled Units without Lube Systems. A warranty period of one (1) year is extended to all assembled units without Lube Systems. This warranty excludes brakes, which are subject to the brake manufacturer’s warranty. Any disassembly of the unit or replacement of parts from within the unit voids this warranty.

1.6 Hub, Drums & Spindles. A warranty period of one (1) year is extended to all hubs, drums and spindles manufactured by Reliable.

1.7 Reliable Disc Brake System. A warranty period of two (2) years is extended to the Reliable Disc Brake System. This includes the rotor and caliper assembly (excluding the disc brake pads).

1.8 Reliable Surge Brake Actuator. A warranty period of two (2) years is extended on all surge brake actuators manufactured by Reliable.

2. Warranty Conditions, Limitations and Exclusions. MasterCraft trailers are manufactured by trained craftspersons from high-quality materials and components. However, conditions outside MasterCraft’s control require specific limitations on, and exclusions from, coverage under this warranty. The Limited Warranty constitutes the final, complete and exclusive statement of warranty terms, and no other person or entity is authorized to make any other warranties or representations on behalf of MasterCraft. Furthermore, the Limited Warranty set forth in Section 1 (including all subsections) hereof does not cover the following:

(a) damage caused by misuse, negligence, accident, collision or impact with any object;
(b) damage caused by any improper alteration or modification to the trailer or any of its component parts or accessories, including damage resulting from alteration, modification, repair or replacement that renders the trailer different from its originally manufactured condition;
(c) damage caused by the use of customer-applied chemicals or accidental spills;
(d) damage caused by failure to maintain the trailer in accordance with the maintenance provisions in the Owner’s Manual or improper maintenance of the trailer;
(e) damage resulting from use of the trailer for rental, commercial or industrial purposes;
(f) damage to hardware and other components fastened or adhered to the trailer;
(g) damage caused by fire, theft, freezing, vandalism, explosion, lightning, wind, hail storms, flooding or other natural disaster;
(h) damage to any component parts and accessories not manufactured by MasterCraft;
(i) damage to the trailer and its parts or components due to abrasions, rock chips, rust, improper
care or maintenance, or use in salt or brackish water; however, the finishes of galvanized trail-
ers, which are designed for use in salt or brackish water, are warranted to be free from dam-
age resulting from use in salt or brackish water for one (1) year from the date of the original
retail purchase or the initial use of the trailer, whichever first occurs;

(j) damage caused by dealer-installed options or accessories;
(k) damage caused by consumer-installed options or accessories;
and/or
(l) all warranted coverage will expire after ninety (90) days on trailers used for commercial
purposes.

3. Disclaimer and Limitation of Implied Warranties. THE EXPRESS LIMITED WARRANTY SET FORTH
HEREIN IS IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESS OR IMPLIED, AND
TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW. MASTERCRAFT DISCLAIMS, AND THE
OWNER HEREBY EXPRESSLY WAIVES, ANY AND ALL OTHER WARRANTIES OR REPRESENTATIONS OF
ANY KIND OR NATURE, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABIL-
ITY AND FITNESS FOR A PARTICULAR PURPOSE, OTHER THAN THOSE WARRANTIES WHICH ARE IM-
PLIED BY, AND ARE INCAPABLE OF EXCLUSION, RESTRICTION, OR MODIFICATION UNDER APPLICABLE
LAW, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING EXPRESS
WARRANTY PERIODS APPLICABLE TO THE RESPECTIVE COMPONENTS. SOME STATES DO NOT AL-
LOW THE EXCLUSION OF IMPLIED WARRANTIES AND/OR DO NOT ALLOW LIMITATIONS ON HOW
LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS
LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH
VARY FROM STATE TO STATE.

4. Limitation of Liability.

4.1 Liability Limitation: Exclusion of Consequential Damages. This warranty is for the benefit of
the owner and MasterCraft, and shall not create or evidence any right to any third party. THE
REPAIR OR REPLACEMENT OF DEFECTIVE COMPONENT PARTS AS PROVIDED UNDER THIS
LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. TO THE MAXIMUM
EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL MASTERCRAFT BE LIABLE FOR
ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, PUNITIVE OR EXEMPLARY DAM-
AGES OR LOST PROFITS WHATSOEVER RISING OUT OF THE USE OR INABILITY TO USE THE
BOAT OR ANY COMPONENT PART THEREOF, OR FOR ANY BREACH OF THIS WARRANTY
OR OTHERWISE, EVEN IF MASTERCRAFT HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES OR SUCH DAMAGES COULD REASONABLY HAVE BEEN FORESEEN BY MASTER-
CRAFT. However, some states do not allow the exclusion or limitation of incidental or conse-
quential damages, so the above limitation or exclusion may not apply to you.

4.2 Purchase Price Limitation. In any event, MasterCraft's entire liability under any provision of
this Limited Warranty shall be limited to the repair or replacement of the trailer or com-
ponent part, or the refund of the purchase price paid by the original retail purchaser for
the trailer or component part found to be defective within the applicable warranty period.
This shall constitute MasterCraft's sole liability and obligation in the event of any claim aris-
ing out of its performance or non-performance of any provision of this Limited Warranty.
Because some states and jurisdictions do not allow the exclusion or limitation of liability, the
above limitations may not apply to you.

5. Transfer of Limited Warranty. Upon the first sale, conveyance or other transfer of the trailer
by the original retail purchaser, any remaining unexpired Limited Warranty coverage shall
be transferred to the second owner and shall remain in effect for the remainder of the ap-
plicable warranty period set for in Sections 1.1 through 1.8 above, if the sale, conveyance or
other transfer of the trailer by the original retail purchaser to another person or entity occurs
within one (1) year of the date of the original retail purchase of the boat by the original retail
purchaser, then the warranty shall be transferred for the remainder of the original warranty
period. If the sale, transfer or conveyance of the trailer by the original retail purchaser occurs
more than one (1) year after the date of the original retail purchase of the trailer, then the
Limited Warranty shall be void as of the date of transfer and shall not be transferable to the second owner.

Only one (1) transfer under the provisions of this Section 5 (from the original retail purchaser to the second owner), within the applicable time period, may be made. In the event of a sale or transfer of the trailer by a second owner to a subsequent purchaser, all coverage under this Limited Warranty shall immediately be terminated and the Limited Warranty shall become null and void. No transfer of this Limited Warranty will operate to extend the warranty period set forth in Section 1 above. In order to effectuate the transfer of the Limited Warranty, the original retail purchaser and the new owner must properly fill out the warranty transfer card, which is available through Technical Services, MasterCraft Boat Company LLC., 100 Cherokee Cove, Vonore TN 37885, and deliver the completed card, together with a check made payable to “MasterCraft Boat Company, LLC.” in the amount of the warranty transfer fee, via U.S. mail, postage prepaid, to MasterCraft at the address shown on the warranty transfer card. The card and check for the warranty transfer fee must be post-marked within the time period specified above in this Section 5 in order for the warranty transfer from the original retail purchaser to the second owner to be effective.

6. Warranty Claims. In order to maintain warranty service under this Limited Warranty, the owner must return the defective trailer or component part to an authorized MasterCraft repair facility, or to MasterCraft’s factory at the below address, within the applicable warranty period. For questions regarding warranty service or to obtain information regarding the nearest authorized MasterCraft repair facility, please contact MasterCraft at the following address or telephone number:

MasterCraft Boat Company, LLC.
Attention: Warranty/Customer Service Dept.
100 Cherokee Cove Drive
Vonore, Tennessee 37885
1-423-884-2221

Subject to the terms of this Limited Warranty, any covered trailer or component part with a material defect in materials or workmanship which is returned to an authorized MasterCraft repair facility or MasterCraft’s factory during the appropriate warranty period will be repaired or replaced, at MasterCraft’s sole option, without charge to the owner for parts and labor. This provision is subject to the following terms and conditions:

(a) MasterCraft shall be obligated only to repair or replace those items that prove defective, in MasterCraft’s sole discretion, upon examination by MasterCraft’s authorized repair facility or MasterCraft’s own personnel, as applicable.
(b) MasterCraft warrants its repairs or replacements only for the remainder of the applicable warranty period.
(c) MasterCraft shall, in its sole discretion, fulfill its obligation to repair or replace any defective item at its factory or authorized repair facility.
(d) The owner shall be responsible for all costs associated with the transportation of the trailer or component part(s) to the authorized MasterCraft facility and for any return transportation.

7. No Modification of Warranty. No oral or written information, advice or communication of any nature by or from MasterCraft or its representatives, employees, dealers, agents, distributors or suppliers shall create a warranty or in any manner increase or modify the scope of this Limited Warranty.
Maintenance

Before Initial Use:
• Read the Owner’s Manual completely.

Before Every Trip:
• Verify that the tongue weight and load is within proper specification.
• Check the brake fluid reservoir to ensure it is at least three-quarters full.
• Examine the actuator for wear, bent parts, corroded/seized parts or other damage.
• Test the actuator to verify the brakes are working prior to use.
• Verify all lights are working properly.
• Verify the coupler latch is locked to the ball properly.
• Verify the safety cables are properly attached to the tow vehicle.
• Verify the emergency brake cable is attached properly to the tow vehicle.
• Verify the boat is properly loaded on the trailer and properly tied down to the trailer.
• Check tire pressure.
• Ensure the lug nuts are properly torqued. (This must also be done after the first 25 miles of towing and every 100 miles thereafter.)
• Verify the wheel jack is retracted and swung up prior to towing.
• Verify the tow vehicle has not exceeded the load capacity prior to towing.
• Verify the oil level is proper for the wheel bearings equipped with the oil bath system.
• Check the guide pole bars to ensure they are tight.

Every three to six months or 250 miles (in addition to above):
• Grease the trailer jack.
• Oil the trailer jack handle in accordance with the manufacturers' recommendations.
• Examine the entire trailer for any abnormalities or damage.
• Examine the trailer bunks for any signs of abnormal wear.
• Lubricate all the rollers on the trailer with a light coat of oil.

Annually (in addition to the above):
• Have the braking and suspension system inspected by a certified technician.
• Change the oil in the oil bath.