INSTALLATION AND OPERATION MANUAL

F33P – Portable Fish Finder with WeedID®

To ensure safety and many years of trouble-free operation of your product, please read this manual carefully before using this product.

SAFETY INFORMATION

- Periodically wipe the face with a dry cloth. Do not use abrasives or solvents on this device.
- Only qualified personnel should perform repairs or servicing not covered in this manual.
- The LCD used in the product is made of glass. Therefore, it can break when the product is dropped or impacted.
- Keep this product away from heat sources such as radiators, heaters, stoves and other heat generating sources. Do not store in extreme temperatures above 150° F (65° C).
- Shade the LCD during storage. Do not expose LCD to direct sunlight for extended periods of time.

NOTES, NOTICES, AND CAUTIONS

WARNING: Indicates a potential for property damage, personal injury or death.

IMPORTANT: Indicates potential damage to the device and tells you how to avoid it.

NOTICE: Indicates important information that helps you make better use of the device and tells you how to correct a performance problem.

INFORMATION: Indicates resources to obtain the proper information to help you make the most of your device.

INFORMATION:
Read this manual completely before attempting to use or install your device. Visit our Customer Service Center on our website for advanced troubleshooting and technical support.

WARNING:
This depth sounder should not be used as a navigational aid to prevent grounding, boat damage, or personal injury. Always operate the boat at slow speeds in unfamiliar water, or if you suspect shallow water or submerged objects.

PARTS SUPPLIED IN PACKAGING

The following parts should be included with the display:

- Fish Finder Display
- Sonar Sensor *(Transducer)* with Integrated Harness and Strap
- Sonar Sensor Float with Rubber Stopper
- Sonar Sensor Transom/Side-Scan Adapter
- Storage Bag
- Neck Strap

If any items are missing or damaged, please contact our customer service department.

INSTALLING THE BATTERIES

IMPORTANT:

If you are going to be using the unit in Temperatures Below 20º F (-7 ºC) you must use Lithium 'AAA' Batteries. Cold temperatures significantly reduce the power output of Alkaline batteries, which will inhibit the performance of the unit.

IMPORTANT:

To ensure your F33P remains water tight, coat the battery cover O-Ring with petroleum jelly (Vaseline) or silicon grease (available at any dive shop) each time you replace the batteries.

WARNING:

Never mix different brands of batteries. Never mix new and used batteries (alkaline, lithium, argon zinc, & rechargeable). Never use damaged batteries. REMOVE BATTERIES DURING STORAGE. REMOVE DEAD BATTERIES IMMEDIATELY.

To Install the Batteries:

1. Slide the Battery Door towards the bottom of the unit and remove it from the main housing.
2. Install 4 "AAA" batteries. Be certain to align the batteries as per the diagram within the battery compartment.
3. Close the battery door completely by reversing Step 1.

GETTING TO KNOW YOUR HAWKEYE® FISH FINDER

UNDERSTANDING THE VIRTUVIEW™™ LCD DISPLAY

A. Depth Readout
B. Sensitivity Setting
C. Backlight On/Off
D. Fish Alarm On/Off
E. Battery Save On/Off
F. Battery Strength Indicator
G. Fish Depth Indicator
H. Bottom Contour Detector
I. WeedID® Weed Detector
J. Fish Location Indicator

NOTICE:

Depending upon the version that you have, the icons may be arranged differently on the screen. However, the function of each icon, does not change.

TURNING THE DISPLAY ON/OFF AND SIMULATION MODE

1. To turn the Power On, press the POWER Key.
2. To turn the Power Off, Press and Hold the POWER Key for 3 seconds.
3. During normal operation the screen can be refreshed by pressing the POWER Key. Use this feature if inconsistent readings are evident.
4. To enter the Simulation Mode hold the POWER key down for 5 seconds while the power is off. Release the POWER key once the display turns on. The unit is now in Simulation Mode and must be turned off to enter normal operation.

NOTICE:

The fish finder has an automatic “power-off” feature to prevent battery drain if you accidentally leave the unit on. When the depth display reads “---” continuously for 5 minutes, the display will shut off automatically.

THE SETUP AND ENTER BUTTONS (FEATURE SETUP)

- Press and Hold the SETUP Key for 3 seconds.
- The Sensitivity Indicator ( ) will blink.
- Cycle through the features by pressing the SETUP key (the indicator will blink for the current feature to be set).
- To activate or deactivate a feature press the ENTER key.
- The screen will automatically return to normal operation after 5 seconds if no keys are pressed.

NOTICE:

When a feature is activated, the indicator will appear. When a feature is deactivated, the indicator will not appear or it will have an "X" over it.

SENSITIVITY

INFORMATION:

There are 4 user selectable sensitivity settings to choose from. Which setting is the right setting? It greatly depends on the clarity and/or depth of the water. Very clear water allows for a moderate sensitivity setting. Conversely, dirty water requires a higher sensitivity setting to target detail but will increase the irritating false readings. Targeting deep water fish generally requires greater sensitivity, especially in stained or dirty water. Salt and brackish water also require a comparatively higher sensitivity setting. While this analysis may seem confusing, the concept is simple. As the unit's sensitivity is elevated, a broader view and smaller details show on the screen. But, with a broader and stronger view comes more clutter and debris. The clearer the water, the less sensitivity needed to get accurate details and vice-versa.

FISHING AT NIGHT

- Turning the backlight feature ON will keep the screen illuminated all the time. This feature will greatly reduce the battery life of the unit, so it should only be used during low light conditions.
- When the backlight feature is set to OFF, the backlight will illuminate for 3 seconds whenever a key is pressed.

AUDIBLE NOTIFICATION OF THE PRESENCE OF FISH

- An audible alarm sounds when a group of fish are detected. It will NOT sound if just one fish is detected.

INFORMATION:

Leave the alarm on if you are using a crank bait so that you do not have to steadily watch for fish on the screen. If you hear the alarm, gently toss your bait at least 20 feet beyond the sonar sensor, allow the bait to drop to the depth of the fish alarm, and retrieve as recommended for the targeted species.

BATTERY SAVE MODE

To increase battery life, the F33P includes a Battery Save mode. When the Battery Save feature is ON, the fish finder will only send a sonar pulse every 10 seconds, instead of continuously. This mode only updates the display every 10 seconds and should not be used while activily targeting fish. It's useful for monitoring changes in depth and bottom contour in 10 second intervals.

CHANGING THE UNITS OF MEASURE FOR DEPTH READINGS

1. Press and Hold SETUP and ENTER (at the same time) for more than 5 seconds. The display will flash the current unit's setting next to the depth readout.
2. Press either key to toggle the unit of measure (Ft = Feet or M = Meters). The selected unit of measure will blink.
3. The screen will automatically return to normal operation after 5 seconds if no keys are pressed.

PLUGGING IN THE SONAR SENSOR

1. Insert the Sensor Plug into the socket on the top of the unit.
2. To prevent the plug from inadvertently coming out, you can feed the plug through the plug holder before inserting into the socket.

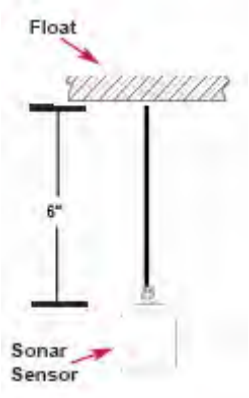
IMPORTANT:

To verify a proper connection, turn the unit ON and listen for a ticking sound from the sonar sensor. If you do not hear the ticking sound, refer to the section below.

IMPORTANT:

To make a waterproof connection, the plug must be firmly inserted into the display housing. Proper insertion will produce a "click" sound when the plug is inserted fully. To make this connection, it may be helpful to press the plug against a solid surface (desk, counter, table, etc). It should be somewhat difficult to remove when it is properly connected to the housing.

ADJUSTING THE SONAR SENSOR FLOAT



The Sonar Sensor float must be adjusted so that it is a minimum of 6 inches away from the sensor (it can be further depending upon water conditions, see Note below).

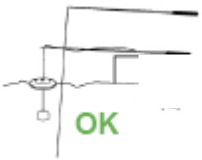
1. Pull out the rubber stopper.
2. Adjust float so that it is 6 to 10 inches from the sensor, or at your desired depth.
3. Replace the rubber stopper by pressing it firmly into the float.

NOTICE:

In calm water, the sonar sensor can be set at a level which will provide the maximum amount of sonar coverage. In rougher water, the sonar sensor may need to be lowered into the water further to provide stabilized readings.

USING THE SONAR SENSOR WITH THE FLOAT

Toss the sonar sensor and float assembly into the water at your desired fishing location.



1. To toss, place the sonar sensor and float in your hand, and pitch underhand. Do not throw the sensor by the cable as this will cause unrepairable damage. Before tossing, be certain that the cable is free from tangles and is not wrapped around anything.
2. Use a pole to guide the sonar sensor to a desirable position or add a float kit (P/N: 3000.94) on the cable to allow the cable to float on top of the water.

3. To retrieve the sonar sensor and float, simply pull in the cable being certain to neatly wind up the excess cable.

IMPORTANT:

Do not allow the cable to sink to the bottom as it may become entangled in debris.

REMOVING THE SONAR SENSOR FLOAT

If you find that you do not have a need for the sonar sensor float, it can be removed as follows:

1. Remove the rubber stopper from the cable by sliding the safety strap toward the headphone-style plug and gently working it over plug.
2. Slide the cable through the center of the float toward the plug and gently work the plug through the center of the float in a rocking motion.

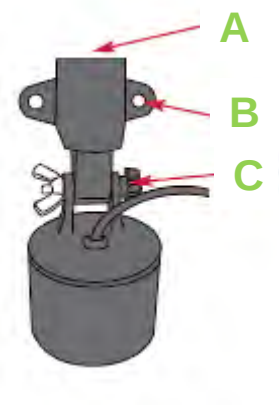
USING THE SIDESCAN ADAPTER

Your fish finder includes a combination Side-Scan adapter & mounting bracket for the Sonar Sensor.

A. The Adapter is threaded to easily attach it to a standard broom stick or paint roller handle purchased from a local hardware store.

B. The Adapter includes mounting taps so that you can attach it to any flat surface or boat hull.

C. The Adapter is removable and adjustable up to 180 Degrees.



INFORMATION:

Here are some ideas for maximizing the usefulness of the Side-Scan Adapter: • Attach it to a dock piling and scan sideways for fish swimming by. • Attach it to a boat, kayak, or canoe hull and slow troll for fish, all the while keeping a look out for fish behind or in front of you. • Attach it to a broom stick handle and search for the best fishing location. • Attach it to a broom stick and seek out the fish hiding away from your fishing hole while ice fishing.

USING THE SONAR SENSOR FROM A BOAT

There are four methods that the fish finder can be used from a boat.

1. Toss the sensor and float into the water as per the previous instructions.
2. “Shoot-Thru” the hull as per the instructions in the next section.
3. Attach the Side-Scan adapter to handle and scan for fish as per the fishing tip below.
4. Attach the Side-Scan Adapter to the boat hull using the mounting tabs. Please keep in mind that while using this method, the fish finder will become inoperable at boat speeds over 5 mph (8 kph).

INFORMATION:

By attaching the Side-Scan Adapter to an ordinary broom stick or paint roller handle purchased from a local hardware store, you can scan for fish suspended in the water column within 99.9 ft (30.4 m) of your location. Attach the sensor to a handle, lower the sensor into the water, and slowly move the sensor in a manner that will allow the signal to search the desired location (a sweeping motion similar to using a flashlight is most effective). Keep in mind the sonar signal is emitted from the base of the sensor. Scan down, sideways, or any combination of the two. Remember, to get depth and bottom contour and composition readings you will have to aim the signal at a solid object within 99 ft (30.4 m), however FISH readings will be accurate, even if the depth reading is “---”.

USING THE FISH FINDER THROUGH A BOAT HULL

The fish finder’s advanced sonar capabilities allow it to “Shoot-Thru” the bottom of a boat or canoe. The hull must be made out of solid fiberglass, or a maximum of 1/8” aluminum, and be in direct contact with the water, with no air pockets. The unit will not work through wood, plastic, or any composite material.

To “Shoot-Thru” the hull of a boat, do one of the following:

A. Place the sonar sensor in .5 inches of water against the hull bottom.

B. Coat the face of the sonar sensor with petroleum jelly and press it against the hull bottom with a twisting motion.

C. Place the sonar sensor in a plastic bag that is full of water and place against the hull bottom.

NOTICE:

If depth readings appear as "---" while using one of these methods, place the sonar sensor directly in the water to verify that the fish finder is operating properly. If it operates properly while directly in the water, reposition the sensor in a new location in the hull, and repeat methods A, B, or C. These methods DO NOT work on all hulls and you may have to place the sensor directly in the water for proper operation.

USING THE FISH FINDER FOR ICE FISHING

To achieve the best performance for ice fishing, you should cut a hole through the ice and place the sonar sensor directly in the water. If you would like to check the area for depth or fish before cutting the hole, please follow steps 1 - 4 precisely.

1. Clear away snow to expose the ice surface.

NOTICE:

The ice MUST be clear (usually referred to as black ice), free from air bubbles, voids, cracks, etc.

2. Place a small amount of liquid water on the ice and set the sonar sensor on the water allowing the unit to freeze to the ice.

3. If there are any air pockets between the sonar sensor and ice, or the water below the ice, the unit will not work properly and will require you to try another spot, or cut a hole in the ice to use. You can also use the instructions in the "To Shoot-Thru the Hull of a Boat" section. Be certain not to allow the water to freeze around the sensor if you use the "plastic bag" method.
4. To remove the sonar sensor from the frozen ice, gently tap the sonar sensor at the base with your hand. If it will not come loose, spray a small amount of water on the ice surface around the base and repeat step 4 until the sonar sensor is easily removed.

IMPORTANT:

Never use a blunt object to strike the sonar sensor as this may cause damage to the sensitive internal electronics.

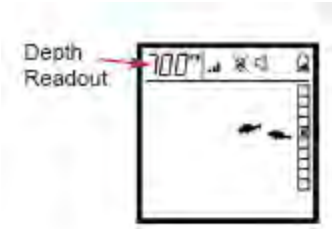
INFORMATION:

Use the fishing tip in the “Using the Sonar Sensor from a Boat” section while ice fishing. This method will give you an accurate indication of where the best fishing location within 99.9 ft (30.4 M).

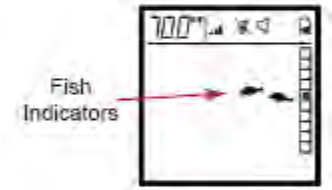
UNDERSTANDING HOW THE FISH FINDER FINDS FISH

Greatly simplified, this fish finder is just a combination of a speaker, microphone and stopwatch. It transmits a sound pulse from the sonar sensor, and then measures the time it takes for the “echoes” to return to the sonar sensor (The fish finder "knows" that the speed of sound through water is about 4800 feet per second).

Fish, rocks, logs, weed, debris, the bottom, etc all “echo” the pulse at a different intensity. A built-in computer then organizes all of this information and shows it on a display screen in a manner that is easy for the user to understand.Depth Readout

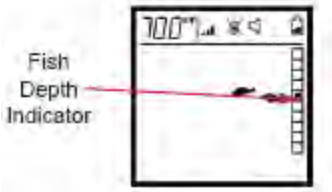


The depth readout on the upper left corner will appear after the power is turned ON and the sonar sensor is placed in water between 1.5 feet and 99.9 feet (.5 to 30.4 Meters). If the depth exceeds these parameters, the depth meter will indicate “---”. This reading may also occur in water that is extremely dirty, or where there are heavy silt or mud bottoms. Sonar is a sound signal that travels through water. Sonar will not travel through air. Keep this in mind when using the fish finder, as the smallest air bubble between the sonar sensor and the water will cause the unit to not operate correctly.



Fish Indicators

If the fish finder determines that sonar has detected a fish, the display will show a fish shaped icon. The first column of fish indicators on the right of the display shows the most current information. This column is then moved to the left as a new reading is displayed. That is, fish indicators “swim” away from the right to the left at a constant speed. This motion in no way reflects actual movement of the fish.



Fish Depth Indicator

Use the Fish Depth Indicator to measure the fish's depth from the Sonar Sensor. This can be done by dividing the depth reading by 10. This number represents the value of each box.

(Example: The depth is 70.0 feet, the fish symbol appears in the 5th box from the top. This means the fish is 35 feet from the surface)

TARGETING PREY IN THE WEEDS

A 

B 

C 

The WeedID® feature incorporated into the fish finder depicts the amount of weed at the bottom of the water body.

A. The display indicates the presence of short weeds by turning on the smallest WeedID® indicator.

B. Moderately tall weeds are depicted by turning on the second WeedID® indicators.

C. Tall weeds are depicted by turning on the third WeedID® indicator.

NOTICE:
In an area where tall and short weeds are present, all 3 icons will be lit.

INFORMATION:
If the prey that you are targeting prefers a weed habitat you should try to fish your bait as close to the top of the weeds as possible (installing a weed guard on your hook will prevent accidental snagging of the weed).

UNCOVERING THE BEST HIDING PLACES

The VirtuView™ display on your Fish Finder depicts bottom structure with a series of rock indicators. If the species that you are targeting prefers to ambush prey as per the above Fishing Tip, pay close attention to the bottom structure indicators when searching for fish.

A

B

C

D

A. No rock indicators identify a structureless bottom. This depicts a bottom that is most likely sandy or muddy with no debris or contour. A good habitat for some fish, but not very desirable for ambush feeders.

B. One Rock Indicator identifies limited structure. You would most likely find a small rock, a small pile of rocks, or uneven bottom contour. This is not a bad place for hiding fish, but due to the limited amount of structure, there may not be a lot.

C. Two Rock Indicators identifies a considerable amount of bottom structure, but scattered. A considerable amount of time needs to be spent fishing this area as each piece of structure could be hiding a prize catch.

D. Three Rock Indicators indicates a large amount of bottom structure in a confined area. This bottom may consist of a large rock(s), stump(s), tree(s), or a ledge(s). Read the following tip to protect this spot.

INFORMATION:

Experienced fisherman will tell you that many fish choose to hide along the bottom and ambush their prey as it swims by. Logs, tree stumps, rocks, ledges, etc. all provide excellent ambush locations. Uncovering these hiding places will prove invaluable to your fishing trips. Remember to keep an eye on the depth of your bait while fishing bottom structure as you do not want to snag it on the structure.

INFORMATION:

If you're targeting fish that prefer weed or structure, try this: If you're fishing from a boat establish accurate readings by using the techniques in this manual. Next, slowly move the boat around the fishing area while paying close attention to the bottom structure and WeedID™. Do not begin fishing until you discover the optimal spot for fishing (using your knowledge about the desired prey's feeding habitat and the fish finder readings). This may take a considerable amount of time, but if you find a secret spot it will be well worth it. This can also be done from shore by walking along the bank and tossing and retrieving the sensor out into the water in 5 foot intervals. IMPORTANT: When you find that secret spot, keep it to yourself. There is nothing that ruins a secret spot quicker than word of mouth.

CARE OF YOUR FISH FINDER

1. Clean the sonar sensor and cable with fresh water and dry off before storing. Do not submerge and/or spray the fish finder screen/housing with water or use chemicals to clean. If necessary, wipe with a damp cloth.
2. Remove the batteries from the fish finder to prevent battery leakage and corrosion.
3. Store the fish finder in the storage bag in a cool, dry place. Never leave it in temperatures over 120° Fahrenheit (49° Celsius)as the extreme temperatures can damage the electronic components.

IMPORTANT:

Cold weather is extremely hard on the electrical components within the display housing. It is suggested that you keep the unit in temperatures above 0° Fahrenheit (-17° Celsius) during operation. The sonar sensor cable also becomes very stiff under cold conditions. Excessive winding or unwinding under these conditions may cause irreparable damage. DO NOT WIND OR UNWIND THE CABLE IN TEMPERATURES BELOW 32º F (0º C).

TROUBLESHOOTING AND FREQUENTLY ASKED QUESTIONS

24-Hour Technical Support is available online at hawkeyeelectronics.com. Search our online Knowledgebase for the latest troubleshooting and FAQ's, or post your own question for our support staff. For one-on-one support please email customerservice@norcrossmarine.com.

INFORMATION:

If you have questions about this device please visit our Customer Service Center on our website or *call us toll free at 888-766-7276.*

Warranty Details • Warranty Registration

Troubleshooting • Product Knowledgebase

Product Specifications • Parts & Accessories

www.hawkeyeelectronics.com

Sonar Cross Talk

If you experience incorrect depth readings on your Digital Depth Sounder display, but nothing on another fish finder screen on the same boat (or vice versa) then you are experiencing sonar cross-talk interference. The only real solution is to move the transducers further away from each other. This can help keep the transducer cones from intersecting, but because cones get wider as the depth increases, the problem can not usually be completely solved by position only. Changing one of the sounders to another model that runs on a different frequency will solve the problem.

Nothing Happens When I Turn the Power On

Make sure that you have installed a good set of batteries and aligned them as per the diagram within the battery compartment. You may also need to test the batteries in another device to ensure they are charged. If in doubt, replace the batteries with a set from a newly opened package.

The Depth Reading Is "---"

First verify that the sonar sensor is plugged into the display housing properly by turning the display on and listening for a ticking sound from the sonar sensor.

Make sure that you are operating the unit in depths between 1.5 and 99.9 ft (.5 to 30.4 m). Be aware that the depth is measured from the sonar sensor, not the float.

Also make sure that the water is not overly choppy, causing the sonar sensor to move around significantly. The sonar sensor must remain relatively stable to achieve optimal readings. When necessary, lower the sonar sensor to hang further from the surface of the water, providing more stability in rougher water.

I See Fish Under the Sonar sensor, but Nothing Appears on the Display

As with the depth reading, the fish finder will not detect any objects that are closer than 1.5 ft from the sonar sensor. If you're fishing in water that is less than 3 feet deep, it is recommended to discontinue use of the fish finder.

The Depth Reading is Incorrect

Make sure that you are pointing the sonar sensor perpendicular to the water when trying to obtain depth readings.

Extremely heavy vegetation may confuse the sonar of the fish finder causing it to misinterpret the depth. If you are certain that the readings are incorrect under these conditions, discontinue use.

I'm Not Getting A Reading While Trying to Shoot Through My Boat Hull or Ice

Shooting through the hull of a boat/canoe or ice can be difficult, as hidden air pockets will prevent you from obtaining a reading. Make certain that the hull or ice is solid from the surface to the water with no air bubbles and/or gaps. Shooting through composite hulls (plastic) or cloudy ice is not possible as tiny air bubbles are usually present in these situations.

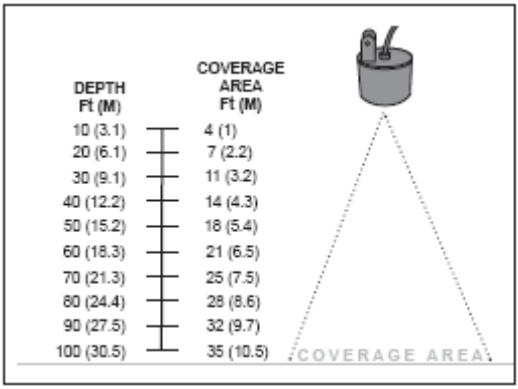
I'm Getting False Fish Indications

The most common cause of false fish indications is extremely tall weed growth. If weeds grow taller than 50% of the total water depth in a particular area, the sonar will mistake it for fish. Trash & debris may also give false readings. Adjusting the sensitivity setting to the lowest level may reduce these false readings, but if they do not go away, it is suggested that you discontinue use of the fish finder under these conditions.

I'm Using the Fish Finder in a Swimming Pool and it's Not Working

Because of interference caused by "sonar bouncing", the fish finder will NOT function properly in a swimming pool, bath tub, bucket, barrel, garbage can, or any body of water that has hard sides. It must be used in an open body of water to function properly.

How Much Underwater Area Does the Fish Finder Cover?



REPLACEMENT PARTS

Please check our website for replacement parts and accessories. If you need replacement parts that are not listed, please email our Customer Service Department at customerservice@norcrossmarine.com.

WARRANTY

This device is covered by a 2 Year Limited Warranty. To be eligible for warranty coverage, you must register your product within 15 days of purchase. Visit our website for warranty details and to register.

To Activate Your Warranty:

- Read and print out a copy of the warranty details for your records.
- Complete the registration form on our website.
- Make a copy of your original purchase receipt and staple it to this manual. *You will need to present it in the rare occurrence that you need to send your product in for service.*
- Complete the information below and store this manual in a safe place.
- *You can print additional copies of this manual from our website*

INFORMATION:

To aid in maintenance and service, record the following:

Date of Purchase: _____

Place of Purchase: _____

Date of Online Warranty Registration: _____

Production Date Code : _____ *(4 digit code located on the device housing)*

INFORMATION:

Made in China under the strict specifications Tested to comply with FCC, CE & ROSH standards if applicable. Visit our website for compliance and warranty information. All Specifications and Prices Subject to Change Without Notice.

NorCross Marine Products, Inc
(P) 888-7NorCross (888-766-7276),
(F) 407-370-6880,
(E) customerservice@norcrossmarine.com
(I) www.norcrossmarine.com

VER.12

WARNING: