



**600
SERIES**

**INSTRUCTIONS
BOOK**

FIG. 1

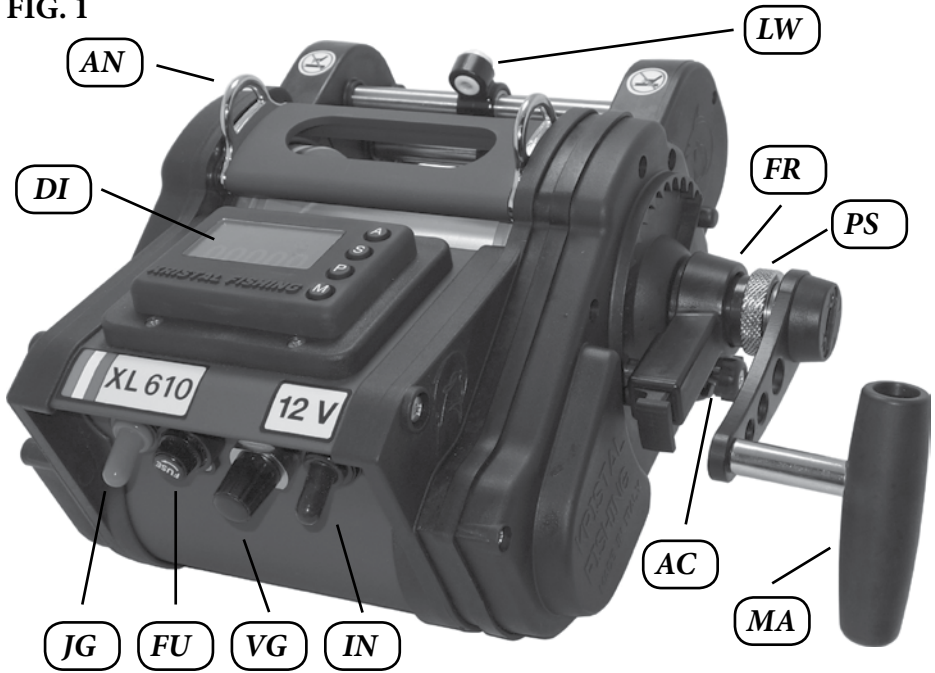


FIG. 2-3

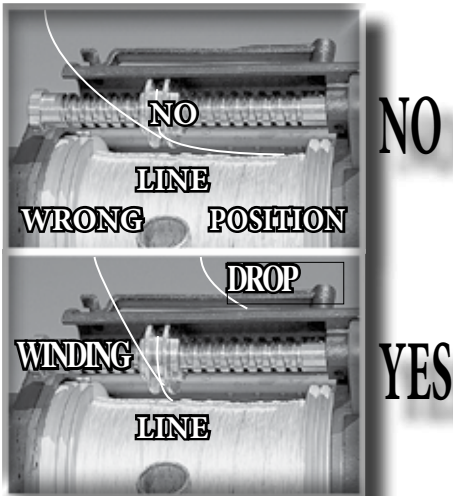


FIG. 4

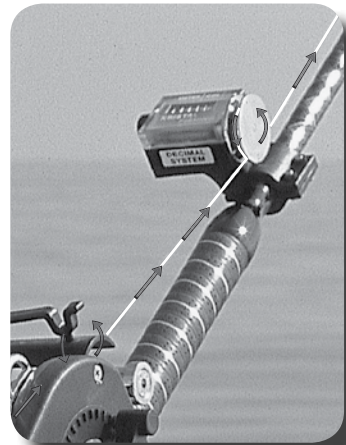


FIG. 5

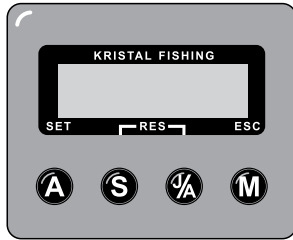


FIG. 6

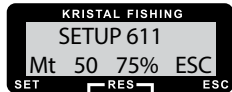


FIG. 7



FIG. 8



FIG. 9



FIG. 10



FIG. 11

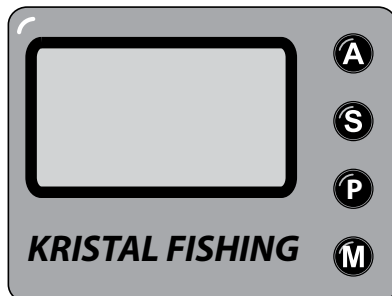


FIG. 12



FIG. 13



FIG. 14

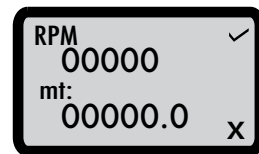


FIG. 15

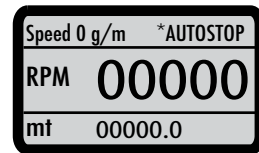


FIG. 16



FIG. 17



FIG. 18



ENG

We wish to thank you for choosing a Kristal Fishing product. We improved our reels as a result of your comments and concerns and we are sure that you will have several years of satisfaction in using them.

SPA

Nos felicitamos por su elección y le damos las gracias por haber preferido un producto de la KRISTAL FISHING. Estamos seguros de que, tanto el nivel de calidad, como el de las prestaciones reunidas en nuestra producción, no podrán ser fácilmente, ni siquiera en el futuro, un bien común. Cada producto que sale de nuestras líneas no es sólo el punto de llegada de años de búsqueda, de durísimos test de calidad, de enormes cantidades de inversión y nuevas metodologías productivas y tecnología, sino que es sobretodo el fruto de nuestra pasión por la pesca y de nuestro amor y respeto al mar. Disfruta de ellos de forma responsable.

FRA

Nous vous félicitons pour votre achat et vous remercions d'avoir choisi un produit KRISTAL FISHING. Nous sommes sûrs que le niveau de qualité et de performances atteint par notre production deviendra par le futur, un bien commun à tous les utilisateurs de ces produits. Chaque produit issu de notre ligne de production n'est pas seulement l'aboutissement d'années de recherches, de durs tests, d'énormes investissements dans de nouvelles méthodes de production et de technologies, mais également et par dessus tout, le fruit de notre passion pour la pêche et de notre amour de la mer.

ITA

Ci complimentiamo con la Vostra scelta e vi ringraziamo per aver preferito un prodotto della KRISTAL FISHING. Siamo certi che il livello di qualità e le prestazioni raggiunte dalla nostra produzione non potranno diventare tanto facilmente, neppure in futuro, un bene comune. Ogni prodotto che esce dalle nostre linee non è solo il punto d'arrivo di anni di ricerca, di duri test, di ingenti investimenti in nuove metodologie produttive e tecnologie ma è soprattutto il frutto della nostra passione per la pesca e del nostro amore per il mare.

IMPORTANT

READ THIS INSTRUCTION BOOKLET CAREFULLY BEFORE CONNECTING AND USING THE REELS.

IMPORTANTE

LEER CON MUCHA ATENCION EL SIGUIENTE MANUAL ANTES DE INSTALAR Y UTILIZAR NUESTRO PRODUCTO

IMPORTANT

LISEZ ATTENTIVEMENT LE PRESENT MANUEL AVANT D'INSTALLER ET D'UTILISER UN DE NOS PRODUITS

IMPORTANTE

LEGGERE CON ATTENZIONE IL SEGUENTE MANUALE PRIMA DI INSTALLARE ED UTILIZZARE UN NOSTRO PRODOTTO

1. INSTALLATION

Here you will find information on installing your Kristal reel:

* Connection

Your new Kristal Reel has 2 wires, a positive red wire, and a negative black wire. These wires need to be attached to your electrical plug. **Do not connect to battery chargers, transformers, converters to avoid damaging the electronic controls.** For those customers who choose to connect their battery directly to a group 27 deep cycle marine battery, this installation option is also available. We recommend using 2 pole electrical connectors. Make sure that the polarity is maintained at all times when the connector brand you are using is being installed on your new reel. We recommend our plugs and receptacles and do not recommend cigarette lighter type, trolling motors connections or alligator clips. **Do not use household appliances connections.** Unfortunately alligator clips do not provide the necessary tightness for proper reel operation. Further more, alligator clips can come loose and disrupt polarity causing severe damage to the reel, and or personal injury. It is imperative that all connections are tightly attached to the battery. This allows the reel to use the necessary amperage when it is under load. If you have a loose connection, the reel will not provide you with 100% of it's power. If you choose to connect directly to your group 27 deep cycle marine battery, we recommend using heat shrunk marine grade ring terminals.

WARNING: When installing your new Kristal Reel great care must be taken to maintain electrical polarity AT ALL TIMES! If the polarity of the wires is reversed, this WILL damage the reel. It is imperative that Positive and Negative wires be routed and connected properly. Customers who are not familiar with 12/24 volt wiring and installation, are highly encouraged to contract a marine electrician to complete the installation process. Damage due to improper installation is not covered under warranty.

WARNING: Alligator Clips are NEVER to be used to connect any electric fishing reel / dredge puller.

* Wire Gauge Size

DC current is very dependent on distance to power source as well as wire gauge. Most installations require either 8 or 10 gauge wire, 10 being the most popular. If you are not familiar with choosing proper wire gauge, consult a marine electrician to determine the wiring requirements for your vessel. All our reels may be connected to a 40 AMP service.

* Rod mount reels

The 600 series reels mount on rods like conventional manual reels.

* Line spooling

To spool the line on the reel, turn reel on with drag backed off completely and increase drag until spooling engages. We recommend to align the levelwind to the center of the spool, tie a knot and initiate the spooling. Same principle applies to the standard reel without the levelwind.

2. REEL OPERATION (Fig.1)

AN: Lugs.

ON-OFF Switch (IN): On the far right hand side of the rear of the Kristal Reel, you will find the ON-OFF Switch. When this switch is turned on, the reel will commence picking up line, and it will continue to do so until the switch is set to the OFF position. This is a 2 position switch. **When using the switch care must be taken to NOT push the switch in, as this will break the switch.** The ON-OFF switch is meant to be pushed up, or pushed down, never in. On programmable reels this switch may or may not be present.

Momentary Switch (JG): The Momentary Switch is located on the far left of the rear of the Kristal Reel. This switch will turn the reel on when it is held in the ON position. The reel will turn off when the switch is released. Like the ON-OFF switch, the Momentary Switch works with an up and down motion, it is never to be pushed in, as such movement will damage the switch. On variable speed (Speed Control & Programmable) the button JG works only when IN is engaged.

AC: clicker. Below the lever drag you will find the clicker mechanism. To engage it, pull and turn the clicker head 180 degrees. To disengage, turn again 180 degrees. The clicker has 2 important functions. First provides an audible alarm when a fish takes line and second allows the reel to be stored in free spool when not in use. The clicker is deactivated when the clicker knob is pulled out and turned counter clockwise. This allows for full free spool. If line is to be let out with the clicker disengaged we recommend using a small amount of drag, or the use of your gloved hand to control the speed of line descent. If the line is let out without a small amount of drag a bird's nest of braided spectra line is going to result, so this is not recommended. The clicker is activated when the clicker knob is pulled out and turned clockwise, allowing the knob to be pushed in. In this position you will hear the clicker when the line is let out.

Lever Drag (FR): Use the lever FR and preset PS to increase or decrease the pressure.

FU: All our Kristal Reels are fuse protected. A fuse will blow when the reel's amperage draw exceeds the amperage of the fuse itself. The most common cause of blown fuses is getting hung up on the bottom while the reel is turned on. We recommend using break away weights to prevent line loss. To replace the fuse, simply turn the fuse holder head. **Always replace with same fuse type with same amperage and characteristics (GG o AM).**

VG: Depending on the model reel you choose, a variable speed control, may or may not be present. The variable speed control works much like the volume control on a radio. When the knob is turned clockwise the speed of the reel's retrieve increases, when turned counter clockwise the speed decreases, and when the click is heard on the far end of the counter clockwise turn, the variable speed control is OFF and the reel stops reeling. A light buzzing noise is normal when reducing the speed.

MA: The manual handle on the Kristal M series reels allow the reel to be used in three different modes:

- A - Fully Electric
- B - Fully Manual

- C - Power Assist (Cranking handle with electric motor on).

The manual handle on the Kristal M series reels cranks line in when turned counter clockwise. Gear ratio is a powerful 1:1 ratio suitable for hand cranking big fish that sound such as swordfish and tuna. Our handle turns counter clockwise. **Do not force to turn forward as it may damage the one way bearing.**

LW: The integrated levelwind optimizes the line capacity. The gun sight model will levelwind the line when freespooling it and when retrieving. The U model only levelwinds the line in the retrieve mode. **NEVER USE THE LEVELWIND TO CARRY THE REEL. KEEP YOUR HANDS AWAY FROM MOVING PARTS.**

DISP: D and SD instructions for the programmable models are available in the next section.

3. HOW TO USE THE REEL

RELEASE OF THE LINE

The line is released by releasing the drag. The release of the drag is achieved by pressing the top button on the lever, and moving the lever back towards the rear of the reel. Drag is then increased using the incremental drag settings as you push the lever towards the front of the reel. You can slow down the drop by closing the drag gradually or using your hand while wearing a glove. In the collapsible levelwind U models we recommend to lower it when freespooling the line. **Make sure the display is powered in order to start the counting of the line been released.**

RETRIEVING THE LINE

When you are ready to retrieve the line, make sure you have not hung the bottom. If this is the case, **you need to release it without engaging the reel's motor.** Once you release the snag, retrieve the line. Do not engage the motor to fight the fish; if the fish fights, let it run, adjusting the drag to 7 to 15 lbs. When it stops taking line, turn the motor off.

SINGLE SPEED MODELS

Turn on IN. Engage the drag as needed. Once the line is up, turn the toggle off. You can also retrieve the line pushing JG.

VARIABLE SPEED MODELS

Turn on IN. Turn the knob to adjust the speed. Engage the drag as needed. When done, turn off the toggle. While retrieving the line at a low speed, you can bypass the variable speed control and reach maximum speed by pushing JG.

PROGRAMMABLE MODELS

In order to retrieve the line, you need to select the retrieve mode by pushing A (Automatic) or M (Manual). For more information of the programmable models see the next section.

4. DIGITAL D MODEL (Fig. 5)

The control board features 4 buttons to program the functions:

Button A: ON/OFF automatic retrieve and autostop at top. Keep pushed for 2 seconds and you activate the programming menu.

Button S: toggles between the autostop and Jigging function.

Button A/J: you can toggle between Autostop and Jigging.

Button M: The M button overrides the programmable modes and allows the angler to operate the reel 100% manually.

PROGRAMMING

By Holding Button A pressed you access the menu (Fig. 6).

By pressing A you select the unit of measure (Meters or Yards), by pressing S you select the line lb of weight. J/A lets you select the percentage of the spool you want to fill. By pressing the button M you save the settings and exit the programming mode.

You access to another menu (Fig. 7). If the reel is loaded with line already, then press M to exit menu and end the programming mode. If the reel has no line on it, to load line you need to press A once. Press A a second time to engage the reel. You can interrupt the line loading and restart this function any time by pressing button A. Upon completion of this function, the reel automatically is ready to operate normally.

NORMAL OPERATION

In order to retrieve the line, you need to select the retrieve mode by pushing J/A. You can select between steady retrieve (Autostop) or by adding timing the pauses (Jigging). You can see your options by pushing S.

Autostop Mode (Fig. 8)

You can select the type of autostop by pressing the button S: NORM or SAFE. NORM will retrieve 95% of the line let out before automatically stopping. If you select the SAFE mode, the line retrieved will stop at 90%. We recommend the latter setting if you do not use a levelwind.

Jigging Mode (Fig. 9)

In the Jigging setting, by pressing the button S several times, you will be shown different options on the top left of the display. **The Jigging feature does not work in depths less than 60 feet.**

Once selecting the retrieve mode, either in Autostop or Jigging, to initiate the retrieval, simply push button A. If you want to stop it, press A again. Adjust the lever drag as needed. While retrieving the line, you can see on the display the amount of line to be retrieved, the spool revolutions and an average speed of the last 20 seconds (Fig. 10). When the reel stops you can retrieve the last meters using manual mode.

Manual Mode

By pressing M the reel is turned on, pressing it again it will be turned off. When you operate the reel by pushing M you will not have the Autostop nor the Jigging features available.

You can RESET THE COUNTER by pressing S and J/A at the same time.

5. DISPLAY SD MODEL (Fig. 11)

The programmable features available on the Kristal D series reels are as follows:

- Digital Line Counter
- AutoStop
- Auto Jigging
- Radio Remote Control

The Kristal control box is conveniently located on the topside of the reel. On the right side of the display there are 4 buttons.

Button A: ON / OFF activate automatic functions. If you hold it down for 2 seconds you access the programming menu. On the Menu press A to confirm the selection.

Button S: By using the S button you can scroll through the screen options. The screen may show the Depth, the speed and the spool turns. If you hold it down for 2 seconds you access the programming menu of Jigging or Autostop. The S button scroll up to the Menu.

Button P: selects the type of setting in use: autostop or Jigging. In the options menu scrolls down.

Button M: ON / OFF manual option. The M button overrides the programmable modes and allows the angler to operate the reel 100% manually. In the menu the M voids the option and brings you to previous menu.

PROGRAMMING

In the main menu, hold A for 2 seconds to access to the menu (Fig. 12), use the S and P to scroll and A to accept option or save setting. To exit push M till you reach main menu.

SETUP

The purpose of this first step is to setup the language, unit of measure, and screen settings such as contrast and back lighting and some other functions. Using the S & P buttons scroll up and down the option, once highlighted, press the A button to select the selection. Press M to return to the previous menu.

CONTRAST: sets the contrast.

BACKLIGHT: sets the back light illumination intensity.

UNIT: Meters or feet.

LANGUAGE: selects among English, Italian, Spanish, French.

AUTOPROTECTION: if the reel is left turned on without use (the spool doesn't turn), this feature can shut it off.

RADIO COMMAND: allows you to program the remote control. You can set it to activate the M or A button.

EXIT: takes you to previous menu.

STANDARD PROGRAMMING

Simplified Menu that enables the programming even if line has been pre loaded.

LBS LINE: This is where the lb. test braided line is entered.

% LINE: percent of line loaded on spool: fill 100%, 3/4 75% etc.

ADVANCED PROGRAMMING (Fig. 13)

To be used if you use NON BRAIDED lines like Dacron, Monel etc. This programming will display an asterisk * on top of the display. Must be set before loading the line and the exact length must be input.

You will now see the Advanced Menu options:

USE LAST CONFIGURATION: uses the last settings.

LOAD LINE: when you select this option you will go to a new menu. To commence loading the line press the S button. Should you need to stop spooling for any reason, this can be achieved by pressing the P button. Once you are ready to continue spooling, simply press the S button, and the spooling will continue. When line is spooled confirm setting by pushing A. When the line is spooled you need to set the amount of line loaded, press A to confirm and then with S & P set the amount of line loaded and confirm with A. A recap will display the rpms and feet/mt loaded (Fig. 14). Press A again to confirm and save. If all is saved properly the asterisk will be displayed.

ADD LINE: same procedure as before but the line charged will add to previously programmed settings.

NORMAL USE

To retrieve the line you will need to use the P Button to choose if retrieve with autostop mode or with Jigging mode (see top right hand of display - Fig. 15).

Autostop Mode

By pressing the A button you can initiate the line retrieval having set your drag first, the autostop is engaged. The line will stop based on the settings you have programmed into the menus.

You can set the autostop mode. On main menu, select and hold for 2 seconds the S button, the AutoStop Menu will now appear and you will notice there are 3 choices:

SIMPLE

Selecting this option allows you to retrieve 50-75-90-95 % of the line paid out. Stop at the percentage you want and press the A button to save and exit.

ADVANCED MENU

selecting this option you will open another menu (Fig. 16) with three options:

RETRIEVAL: This allows you to adjust the percentage of retrieval. You can adjust the percentage from 0% to 100%.

STOP TO: by selecting this option using the next menu (Fig. 17), you can input the meters/feet when line should stop.

EXIT: brings you to previous menu

ATTENTION: At Kristal we consider a 95% line retrieval a "Safety Level" to prevent damage to your swivels, as well as rod tips. This number may be adjusted, however we recommend no less than 95% for worry free operation. If you select a value greater than 95% or less than 50 feet you will see a warning message, if you still want to proceed, just press A to confirm your selection.

Jigging Mode

The Jigging mode is quite an interesting option, that may be used for other creative angling opportunities other than just Jigging. Line pulls, and pauses, what is more attractive to fish than a run, a stop, and a run again? The Jigging mode may also be used to pull teasers. Think about applying the "Jigging mode" to a pin teaser or a daisy chain, or even a "high speed" lure. If you troll at 8 knots, and pull a high speed lure with the Jigging mode, you are now high speed trolling, without the high speed. When it comes to Kristal, we are here to give you options that allow you to expand your fishing horizons through personal creativity and applications.

The A button is used to activate the Jigging Mode. When the A button is pressed in the Jigging Mode, then the line will be retrieved in Jigging fashion based on the settings programmed.

You can set the Jigging mode. On main menu, select and hold for 2 seconds the S button. This menu will provide you with the following different menu options:

SIMPLE

The simple menu has several line preset settings you can choose, using the S and P button you can scroll up to your desired selection. Upon completing your selection, simply press the A button to save your setting . **The Jigging mode does not work in depths less than 60 feet.**

ADVANCED

Allows you the most choices when it comes to customizing your Jigging functions. In this menu (Fig. 18) there are the following options:

SECONDS: how many seconds go by between Jigs. Once you finalize the number of seconds you wish to use, simply press the A.

FT: This setting is used to determine how many feet of line you want to retrieve per pull/Jigging motion.

STOP TO: This setting is where you want your Jigging functions to stop. Use caution when setting this number, the last thing you want is a Jig with a hook flying out of the water.

EXIT: brings you to previous menu.

ATTENTION: We recommend no less than 50 feet. If you select a value less than 50 feet the line may hit the rod tip and will not offer a proper safety from it. If you select a value less than 50 feet in the STOP TO menu you will see a warning message, if you still want to proceed, just press A to confirm your selection.

Manual Mode

By pressing M the reel is turned on, pressing it again it will be turned off. When you operate the reel by pushing M you will not have the Auto-stop nor the Jigging features available.

RESETTING THE COUNTER

By holding S and P at the same time for a few seconds will reset the counter. **The counter will NOT go into negative numbers!**

NOTE: The Kristal digital line counter provides approximate readings based on the amount of line payout. Line out is not always equal to actual water depth, angles, and currents also play a role. In addition, the diameter of the fishing line used by the user will also affect the accuracy of the line counter.

6. MAINTENANCE – BREAK IN PERIOD

After use, you need to rinse off the reel with free flowing non pressurized fresh water. This rinse should include your rod's reel seat, butt section, as well as the guides. **Once rinsed, the reel and the rod can be dried with a soft cotton towel,** and a coating of any nonflammable protectant such as Super Slick Stuff, CRC, or Nano technology product may be applied. When cleaning your fishing reels soap is NEVER to be used. Soap will reduce the surface tension of the water, allowing salt to permeate the reels.

Do not store facing up as the condensation and running water might settle near the tog-

gles. Store in a semi horizontal position. **As always, store in driest place. Back off the drag when storing the reel to avoid all the moving components from sticking, causing a sluggish and jerky drag.**

No fishing reel should ever be placed on a rod holder that is getting drenched with salt water when running offshore. Salt water under pressure WILL ruin any reel that is exposed to those conditions. When running, careful placement of the reels, and/or the use of a reel cover is recommended. All boats are different, some wetter than others, it is important to be familiar with the dryer areas of the boat, it is in these areas that the reels should be kept when running.

7. ACCESSORIES

We offer many accessories as follows:

LEVEL WIND (see Fig. 2 - Fig. 3)

The levelwind must be used only to bottom fish. Do not use while trolling. You need to lightly lubricate the worm gear system with Corrosion X, T-9 or Marine CRC. Keep the grooves clean and remove any grease or dirt build up. Do not use the levelwind to freespool the line. Run it above the black cover guide. **When ready to retrieve the line, make sure to align the line to the wheel.** Loop the line under and around the wheel. The DFM works best with the line being under tension. **Do not use while trolling or if fishing for swordfish in the daytime or any other instance where the line might have a lot of slack.** Since the DFM is a mechanical device, it needs to be lubricated especially at the beginning.

LINE COUNTER (see Fig. 4).

You need to loop the line under and around the wheel. After use, reset the counter and rinse with fresh water and spray some Corrosion X, T-9 or CRC. The counter includes adapters to fit different diameter rods. Pair the bushings by reading the size inside it. Tighten using an allen key. **Do not reset the counter with the line on it causing pressure to wheel shaft.**

8. TROUBLE SHOOTING

No power

Check the polarity on the connections. Make sure the fuse is not burned due to wiring inversion. On the Digital models, make sure the counter is not on 0. If it is, push the button M.

The reel has no power

Check the wiring. Make sure the wiring gauge is appropriate and that the wiring run is not excessively long. A battery lacking charge might be the cause. Also, an improper plug receptacle use.

The levelwind comes off the wheel

Read again the proper use.

The fuse pops

Check the wiring. The inversion of polarity will cause the fuse to burn. The Amperage of the reels is selected to offer the maximum protection to the motor. If it burns frequently it might be excess strain meaning that the reel you are using might be undersized to the application.

I lose my catch

You may be using too much drag and speed and spinning off the fish. Reduce the drag allowing it to slip occasionally.

I feel a light shock

Our units are 12 Volt and cannot transmit high and dangerous electric current. Sometimes, there is a static current build up on the metal components which is discharging.

9. WARRANTY

We offer a one year warranty against manufacturing defects on electric motor and components, parts and labor. The electronic components are warranted for 90 days. If there is a warranty claim, you will need to contact a certified and authorized repair center showing proof of purchase and indicating the nature of the defect. We reserve the right to inspect and determine if it is a valid claim. We may repair or replace the item at our discretion. Shipping or freight expenses are not included. Please follow the guidelines in this manual in order to void the warranty. **The incorrect wiring and polarity**

reversal will burn the fuse and/or motor and might damage the drag and motor bearings and not covered by warranty. We recommend a yearly maintenance on the reels which we can perform at a very reasonable price. **The opening of the unit will void the warranty.**

10. SERVICE CENTERS

Should you experience any problems, need additional information or require guidance, do not hesitate to contact our world wide technical customers assistance centers.

World wide:

Kristal Fishing

open from tuesday to saturday

from 8:00 to 12:00 & 14:00 to 18:00 (GMT +1)

Tel. +39.0175.88636

Fax +39.0175.88015

E-mail: info@kristalfishing.it

In the Usa:

e-mail: techsupport@erramarine.com

or call +1 305 718 8880

M-F 9:00 to 5:30 pm EST.

Before calling, make sure you have the model number handy.

ELECTRIC REELS SAFETY RULES

READ AND UNDERSTAND ALL INSTRUCTIONS - SAVE THESE INSTRUCTIONS

- **Failure to follow all instructions listed below may result in serious personal injury.** -

The fishing area must be kept clean and well lit. Cluttered areas invite accidents. Do not operate power reels in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power reels may create sparks which may ignite the dust or fumes. Keep by-standers, children, and visitors away while operating a power reel. Distractions can cause you to lose control.

Electrical Safety: contact a qualified electrician to install a polarized outlet. Before plugging in the reel, be certain the outlet voltage supplied is within the voltage marked on the reel. Do not use "AC rated voltage". **Store the reel in a dry place after use.** Do not abuse the cord. Never use the cord to carry the reels or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. **Such preventive safety measures reduce the risk of starting the reel accidentally.** Store idle reels out of reach of children and other untrained persons. Electric reels are dangerous in the hands of untrained users.

Personal Safety: Stay alert, watch what you are doing and use common sense when operating a power reel. Do not use reel while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power reels may result in serious personal injury. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Keep handles dry, clean and free from oil and grease.

Avoid accidental starting. Be sure switch is "OFF" before plugging in. Carrying reels with your finger on the switch or plugging in reels that have the switch "ON" invites accidents.

Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the reel in unexpected situations.

Develop a periodic maintenance schedule for your reel.

Use only accessories that are recommended by the manufacturer for your model. **Accessories that may be suitable for one electric reel, may become hazardous when used on another electrical reel.**

SERVICE

Electric reels service must be performed only by qualified Kristal repair personnel. Service or maintenance performed by unqualified personnel may void the warranty and cause injuries.

When servicing a reel, use only manufacturer's recommended replacement parts. Follow instructions in the maintenance section of this manual.

Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock, injury or damage to the reel.