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Introduction

Overview

Thank you for purchasing the Cannon Magnum electric downrigger. We have designed your new downrigger to be an accurate and reliable tool that will enhance fishing control and improve your ability to catch fish.

This manual covers installation and the functions of the Magnum 5 ST, Magnum 10 STX, and Magnum 10 STX TS. The Tournament Series version of the Magnum 10 is fitted with a cast stainless steel reel, brushed finish stainless steel boom, and a white frame.

Safety and Cautions

Your Cannon downrigger should only be used for its intended purpose. Improper use will void the warranty and may be a safety risk.

We hope that you enjoy the use of your new downrigger and enjoy the benefit of controlled depth fishing for years to come by always following safe boating practices and laws for wherever you are fishing.

Read this manual carefully before operating your new Cannon Downrigger. Retain this manual for future reference.

Warranty and Registration

To receive all the benefits for your product warranty please fill out and mail the registration card. You may also register your product online at www.cannondownriggers.com.







CANNON LIMITED WARRANTY

Johnson Outdoors Marine Electronics, Inc. warrants to the original purchaser that if the accompanying product (see exclusions below) proves to be defective in material or workmanship within the following warranty periods, Johnson Outdoors Marine Electronics, Inc. will, at its option, either repair or replace same without charge (but no cash refunds will be made):

- The boom, motor, and reels, plus all composite parts, including but not limited to frames and bases, will be free from defects in materials and workmanship, subject to normal wear and tear, for the original purchaser's lifetime.
- 2) All other items will have 1-year limited warranties from the date of original retail purchase, except THE FOLLOWING ITEMS THAT HAVE NO WARRANTY WHATSOEVER: boot covers, clothing, Dacron line, rubber bands, swivel lock pin, weights, and wire cable.

This limited warranty may be enforced only by the original purchaser; all subsequent purchasers acquire the product "as is" without any benefit of this limited warranty. Repair or replacement of the product as set forth in this limited warranty shall be the original purchaser's sole and exclusive remedy and Johnson Outdoors Marine Electronics, Inc.' sole and exclusive liability for breach of this warranty.

EXCLUSIONS

This warranty does not apply in the following circumstances:

- When the product has been connected, installed, combined, altered, adjusted, serviced, repaired, or handled in a manner other than according to the instructions furnished with the product
- When the motor housing is opened by anyone other than Cannon[®] Authorized service repair personnel.
- When any defect, problem, loss, or damage has resulted from any accident, misuse, negligence, carelessness, or abnormal use, or from any failure to provide reasonable and necessary maintenance in accordance with the instructions of the owner's manual

LIMITATION AND EXCLUSION OF IMPLIED WARRANTIES AND CERTAIN DAMAGES

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THESE LIMITED WARRANTIES. JOHNSON OUTDOORS MARINE ELECTRONICS, INC. DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, AND IN NO EVENT SHALL ANY IMPLIED WARRANTIES (EXCEPT ON THE BOOM, MOTOR, REELS, AND ALL COMPOSITE PARTS), INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, EXTEND BEYOND ONE YEAR FROM THE DATE OF PURCHASE (AND IN THE CASE OF THE BOOT COVERS, CLOTHING, DACRON LINE, RUBBER BANDS, SWIVEL LOCK PIN, WEIGHTS, AND WIRE CABLE, JOHNSON OUTDOORS MARINE ELECTRONICS, INC. DISCLAIMS ALL IMPLIED WARRANTIES). THIS WRITING CONSTITUTES THE ENTIRE AGREEMENT OF THE PARTIES WITH RESPECT TO THE SUBJECT MATTER HEREOF; NO WAIVER OR AMENDMENT SHALL BE VALID UNLESS IN WRITING SIGNED BY JOHNSON OUTDOORS MARINE ELECTRONICS, INC.

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

CANNON® SERVICE POLICY

AFTER THE APPLICABLE WARRANTY PERIOD

After the applicable warranty period, or, if one of the above exclusions applies, Cannon products will be repaired for a charge of parts plus labor. All factory repairs, after the applicable warranty period, carry a 90-Day Limited Warranty, subject to the exclusions and limitations stated above.

TO ENFORCE WARRANTY OR TO OBTAIN REPAIRS AFTER WARRANTY

To obtain warranty service in the U.S., the downrigger or part believed to be defective and the proof of original purchase (including the date of purchase) must be presented to a Cannon Authorized Service Center or to Cannon's factory service center in Mankato, MN. Except as noted below, any charges incurred for service calls, transportation or shipping/freight to/from the Cannon Authorized Service Center or Cannon's factory, labor to haul out, remove, re-install or re-rig products for warranty service, or any similar items are the sole and exclusive responsibility of the purchaser. Downriggers purchased outside of the U.S. (or parts of such downriggers) must be returned prepaid with proof of purchase (including the date of purchase and serial number) to any Authorized Cannon Service Center in the country of purchase. Warranty service can be arranged by contacting a Cannon Authorized Service Center listed on the enclosed sheet, or by contacting the factory at 1-800-227-6433 or Fax 1-800-527-4464. If the necessary repairs are covered by the warranty, we will pay the return shipping charges to any destination within the United States.

DO NOT return your Cannon downrigger or parts to your retailer. Your retailer is not authorized to repair or replace them.

Major parts, such as the motor and main frame, must be returned to Johnson Outdoors Marine Electronics, Inc. in Mankato, Minnesota, or a Cannon Authorized Service Center, for repair or replacement. To reduce shipping costs, we suggest removal of loose parts such as the boom and rod holders. Small parts that can be easily removed such as the handle and/or the counter, may be removed from the downrigger and returned for repair or replacement.

Retain your sales receipt! Proof of purchase must accompany product when returned.

Cannon

	121 Power Drive Mankato, MN 56001	
FOR YOUR INFORMATION:		
	_	Serial No.
	_	Date Purchased
	Store V	Vhere Purchased

RETAIN THIS SECTION FOR YOUR RECORDS

Return Address:

4



Introduction to Controlled Depth Fishing

Undoubtedly there are many fishermen familiar with the methods and use of controlled depth fishing. During the mid 1960's the state of Michigan introduced Pacific salmon into the Great Lakes in an attempt to revitalize its sport fishing industry. From this successful transplant, new fishing techniques and equipment were developed. One such method was controlled depth fishing which enabled fishermen to place a lure at a desired depth by utilizing downriggers.

Because of the varying factors (water temperature, thermocline, weather, tides, time of day, or time of year) it is necessary for successful fishing to maintain specific water depths that coincide with fish movements and feeding patterns.

One essential feature of the downrigger is the depth meter or gauge that indicates lure depth. This allows the angler to control as well as return to specific depths where fish have been caught.

Due to the success of controlled depth fishing, downriggers are now being used throughout the world to catch a wide variety of species in both fresh and salt water. Whether fishing for blues off Rhode Island, walleyes in Lake Erie, sailfish off the coast of Florida, or stripers in Tennessee, the use of downriggers will make your fishing more successful and more enjoyable.



Parts Description

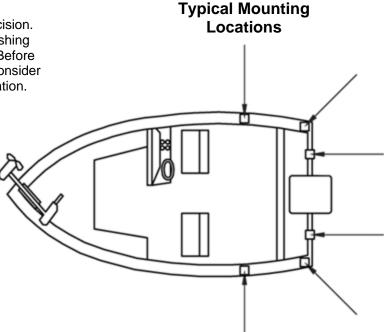
- 1. **Reel** This is used to spool the cable, available in lengths ranging from 150 to 400 feet.
- 2. **Boom**This is used to extend the weight out from the body of the downrigger and has a pulley fixed to its end. Boom lengths range from 24 to 53 inches. Boom is a fixed 24 inches on the Magnum 5 ST model.
- Swivel Head This relays the cable at the end of the boom to lower the weight.
- 4. **Cable** This connects to the weight. Cable material is 150 lb. test stainless steel cable.
- 5. **Toggle Switch** This controls the power to the downrigger, up and down.
- 6. Mounting Base This attaches to the boat, enabling you to place the downrigger where you choose.
- 7. **Rod Holder** This holds your fishing rods while trolling and may also be used for storing rods.
- 8. **Boom Clamps** These lock the boom sections together after the boom has been extended or retracted.



Downrigger Mounting on Boats

A downrigger should be mounted wherever it is easy to operate and observe. You want to be able to see your fishing rod and to react quickly. So, choosing a good location to mount your downrigger on your boat is very important.

Due to the great variety of boats available, mounting your downrigger can be a difficult decision. Cannon has a complete line of mounting and fishing accessories to aid in your fishing experience. Before making any permanent changes to your boat consider what accessories might be used in your application.



Arrows Indicate

Installing the Base on Your Boat Decks up to 7/16" thick

Where access to the underside of the deck is not available, the mounting base can be mounted using wellnuts. Use the base as a template to mark locations and drill four wellnut clearance holes. Mount the base using four 1/4-20 x 1-1/2" truss head screws and four wellnuts. Tighten the screws so the wellnuts are firmly compressed as pictured.

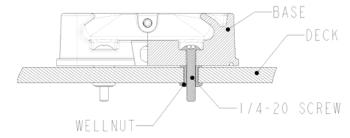
Decks thicker than 7/16"

For decks thicker than 7/16", or where the underside of the deck is accessible, mount the base with screws, nuts, and washers. Use the base as a template to mark the locations and drill four 9/32" holes. Use four 1/4-20 x 2" truss head screws and four each flat washers and nuts. Fasten the base to the deck as pictured. NOTE: Wellnuts **SHOULD NOT** be used on decks thicker than 7/16".

Decks up to 7/16" Thick

Decks Thicker

WASHER AND NUT



Than 7/16" Thick BASE DECK

/4-20 SCREW



Decks thinner than 1/4"

Use a Cannon deck plate (PN 2200693) to prevent deflection and add stability to decks thinner than 1/4". Use the deck plate as a template to mark the hole locations.

If access to the underside of the deck is not available, the deck plate can be mounted using screws and wellnuts. Use the deck plate as a template to mark locations and drill 4 wellnut clearance holes. Use four 1/4-20 x 1-1/2" flat head screws and four wellnuts to mount deck plate. Tighten the screws so the wellnuts are firmly compressed.

Where the underside is accessible, the deck plate can be mounted using screws, nuts, and washers. Drill 9/32" holes. Use four $1/4-20 \times 1-1/2$ " flat head screws, nuts and washers (flat and lock). Fasten plate to deck. To secure the mounting base to the deckplate use four $1/4-20 \times 1$ " truss head screws.

NOTE: When using the telescopic boom, we strongly recommend the use of a deck plate on all boats to provide adequate stability for the downrigger.

The Low-Profile Swivel Base mounting follows the same procedure as for the deck plate except that four 1/4"-20 x 1-1/2" truss head screws are used to fasten the mounting base and four additional 1/4"-20 x 2" truss head screws fix the swivel base to the boat deck.

Low-Profile Swivel Base





INSTALLING THE BOOM AND BALL HOOK

- 1) Remove the ball hook collar, ball hook, and 1/4-20 nut from the included hardware bag assembly.
- 2) Thread the nut onto the ball hook, then thread the ball hook into the ball hook collar. Do not tighten yet. (Figure 1)
- 3) Slide ball hook collar onto the end of the boom and leave it loose. (Figure 2)
- 4) Insert boom with ball hook collar assembly into frame (Figure 3) and line up holes in boom with holes in frame (Figure 4).
- 5) Remove 1/4-20 x 2" bolt and 1/4-20 nylon locknut from included hardware bag assembly.



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4





FIGURE 5



FIGURE 6



FIGURE 7



FIGURE 8

- 6) Insert the 1/4-20 nylon locknut into the hex pocket on the nose of the frame (motor side of frame). (Figure 5)
- 7) Insert 1/4-20 x 2" bolt into reel side of frame nose. With a Phillips head screw driver, thread bolt into the nylon locknut from step 6. Tighten bolt until the end of the bolt is flush with the top of the nut. (Figure 6)
- 8) Slide ball hook collar to your preferred location. Hand tighten the ball hook into boom tube. Tighten enough so that there is no movement on the boom. (Figure 7)

Important: Do not overtighten ball hook or permanent deformation of the boom is possible.

9) Once ball hook is secure, with a 7/16" wrench, tighten the 1/4-20 nut until secure with ball hook collar. (Figure 8)

TELESCOPIC BOOM ONLY

To adjust the boom length (with the boom extending away from you) rotate the clamps (See item # 8 on page 5) approximately ¼ turn counter-clockwise to unlock and slide the boom section to the desired position. Once in place, lock the clamps by rotating clockwise until tight.



BOOM END PULLEY

Telescopic Boom

- 1) Remove boom end assembly from hardware bag.
- 2) Remove #8 self tapping screw from hardware bag.
- 3) Insert boom end post into end of the small tube of the telescopic boom assembly. (Figure 9)
- 4) Align hole in boom post with hole in small end tube. (Figure 10)
- 5) Secure boom end with #8 screw as shown. Tighten with Phillips head screw driver. (Figure 12)

Fixed Length Boom (Magnum 5 models only)

- 1) Remove boom end assembly from hardware bag.
- 2) Remove boom adapter and #8 self tapping screw from bag assembly.
- 3) Insert boom adapter into end of boom. (Figure 11)
- 4) Align boom adapter hole with hole in boom.
- 5) Insert boom end assembly into adapter and line up all three holes (boom post, adapter, and boom).
- 6) Secure boom end with #8 screw as shown. Tighten with Phillips head screw driver. (Figure 12)



FIGURE 9



FIGURE 10

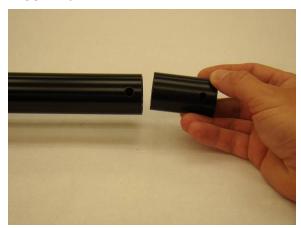


FIGURE 11



FIGURE 12





FIGURE 13



FIGURE 14



FIGURE 15



FIGURE 16

REMOVABLE SPOOL COVER

Your new downrigger comes with a removable spool cover. By removing this cover, you are able to gain easy access to your spooled cable and easy spool removal. This feature allows you to easily access tangled line, get it repaired and get you back into action quickly.

This feature also allows you to have multiple reels for different types of line. By purchasing additional reels, you can wind each with a different type of cable (i.e. Uncoated cable, Coated Cable, Mono, etc.). This allows you to switch out desired cables quickly and easily.

NOTE: Remove all tension from the line before removing or replacing the spool.

Follow the below steps to remove the side cover:

- 1) Loosen and remove the clutch knob. Turn the clutch knob clockwise until it is free of the motor shaft. (Figures 13 & 14)
- 2) Loosen the two 1/4-20 Phillips head screws on opposite sides on the cover. (Figure 15)

NOTE: Screws are captured in the cover and will not come out completely.

- 3) Remove the cover and you now have complete access to the spool. (Figures 16 & 17)
- 4) Reassemble by reversing the above steps.

NOTE: Take care when removing the spool over open water so that the clutch pad or clutch disk doesn't get pulled off as well. (Figure 17)

WARNING: Do not touch the cable reel while the downrigger is in use.



FIGURE 17



REPLACING THE CLUTCH PAD

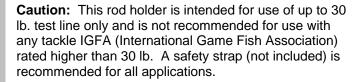
To replace the clutch pad, follow the steps for removing the spool. Once the spool is removed, you have access to the clutch pad. (Figure 18) Simply pull it off the shaft and replace. Reassemble the spool and cover in the reverse order.



FIGURE 18

ATTACHING THE ROD HOLDER(S)

The locking rod holder(s) incorporate a locking tooth design which can be easily adjusted every 15° with the soft grip knob. The symmetrical design will allow mounting of the rod holder on either side of the downrigger or two rod holders at the same time. The unique two piece design allows independent adjustment of the rod holder and the rod holder arm in two axes. (Figure 19)



NOTE: The rod holder assembly is not covered under warranty when used with tackle above 30 lbs. Equipment placed in the rod holders and the loss thereof is the responsibility of the user and is in no way warranted by Johnson Outdoors, Inc. Mounting must be in accordance with the above instructions and pictures to comply with the product warranty.





FIGURE 20



FIGURE 21

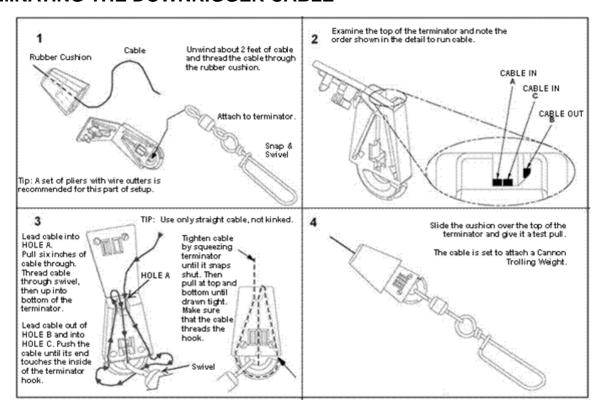
To install the rod holder(s):

- 1) Fasten rod holder to rod holder elbow using supplied spring and knob.
- 2) Attach the rod holder to the downrigger on either side using the supplied spring and knob. (Figure 20)
- 3) Repeat the above steps for the other side if (2) rod holders are to be mounted.

The rod holders can be adjusted by loosening either knob until the locking teeth are free from each other. Rotate the rod holder or arm to the desired position and re-tighten knob. (Figure 21)



TERMINATING THE DOWNRIGGER CABLE



TIP: Use only straight cable when routing through the terminator. Worn or kinked cable can be stressed and may break prematurely when retrieving trolling weights.

ATTACHING THE LINE RELEASE (UNI-RELEASE)

The Cannon Uni-Release attaches directly to the downrigger weight. Attach fishing line to the clip at the end of the release, and then click through a series of increasing tension settings. The release can be used with any test line on salt or fresh water and may be adjusted from 2 to 22 pounds of grip tension on the line.

To change line release tension, turn tension knob to (+) to increase or (-) to decrease. Tension also may vary according to where the line is placed in the grips. Higher tension is on the line if it is set back toward the hinge, and lower if set closer to the opening. To open the release, spread the release arms with thumb and forefinger applying pressure to the sides.

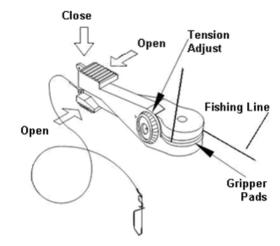






FIGURE 22



FIGURE 23

USING THE INCLUDED POWER LOSS MANUAL CRANK HANDLE

In case of a dead battery, your downrigger comes equipped with a power loss manual crank handle. This handle allows for the retrieval of your weight should you lose power or have an electrical failure. To utilize the handle follow the below steps.

WARNING: LOOSENING OR REMOVING THE CLUTCH KNOB WILL RELEASE THE SPOOL AND ALLOW IT TO RUN FREE. MAKE SURE YOU HOLD THE SPOOL BEFORE REMOVING THE CLUTCH KNOB.

- 1) Unplug downrigger and secure reel, see note above.
- 2) Rotating clockwise, remove the clutch knob. (Figure 22)

CAUTION: Take care when removing the clutch knob over open water.

3) Install the handle's hex pattern to match the hex pattern on the spool. Once installed, you can start cranking up your weight. (Figure 23)



Wiring Your Downrigger

Your Boat's Electrical Condition

It is important to make sure that your boat is properly set up before installing your Magnum with Positive Ion Control (PIC). Whenever a boat is in water, various submerged parts interact to create weak electrical currents. These weak electrical currents must be controlled to extend the life of the boat's metal parts and ensure a good fish catching environment.

Check the zinc sacrificial anodes on your boat and on the outboard/outdrive. If they are more than 50% dissolved they should be replaced. Any coating of slime or growth should be cleaned off. All metal parts including the hull (if metal) must be interconnected by a grounding wire. This includes motor shafts, outdrives, and through hull fittings. If your boat and zinc anodes are set up correctly, the voltage on the stainless steel downrigger wire should be positive when in contact with the water.

With your boat in the water and the downrigger cable deployed in the water, measure the dc voltage from the cable to a grounded metal surface of the boat touching the water. It should be 0.6-0.8VDC if properly wired.

- The use of Cannon vinyl coated lead weights is recommended.
- Use the trolling weight insulators supplied with your downrigger. This insulates your weight from the positive charge on the cable. This will also ensure that the trolling weight will stop at water level when retrieved.
- The cable on your downrigger should be replaced every 2 years. Etching of the cable can weaken it physically and electrically.
- In saltwater, make sure the sacrificial zinc anodes are replaced when half dissolved. This ensures that the boat will run with a neutral or slightly positive charge. Clean zincs on a regular basis with a non-corrosive brush.
- Always make sure the boat is properly grounded to the water. This will help ensure proper PIC voltage on the cable and that the Short Stop will function properly.

NOTE: To ensure proper operation of your Magnum, ground the battery to your boat's electrical system's ground. Malfunctions with the PIC, communication between units, or loss of operation result from faulty grounding. Always check to see if your boat is properly grounded first.

Electrical Specifications & Wiring Instructions

The Magnum series is rated at 30 amps (full load), 12 volts DC and is protected by a 25 amp manual reset circuit breaker (located under motor housing). Be sure to measure the battery voltage of your boat.

WARNING! - DO NOT RUN THIS DOWNRIGGER ON A 24 VOLT BATTERY SYSTEM. THIS WILL DAMAGE THE UNIT AND VOID YOUR WARRANTY.

Connecting to the Battery:

It is strongly recommended that a fuse or manual reset circuit breaker be installed at the battery on the positive lead of the power cable or that you connect the downrigger to a battery selector switch. (See Fuse and Wire Specifications) Connect the positive lead (RED) to the (+) post on your battery and the negative lead (BLACK) to the (-) post on your battery or the downrigger will not operate. Use the quick disconnect plug to remove the downrigger without touching the battery.

NOTE: It is strongly recommended to power your Magnum with a Deep-Cycle marine battery. Only run a Magnum from a Starter battery if it is recharged by an alternator while trolling.

Tip: Control degradation of the power cables and limit corrosion by using anti-oxidant gel on all connections.



FUSE / BREAKER SPECIFICATIONS:

An over-current protection device (circuit breaker or fuse) must be used with this downrigger. Coast Guard requirements dictate that each ungrounded current-carrying conductor must be protected by a manually reset, trip-free circuit breaker or fuse.

The following breaker size is a recommended guideline:

- 1 downrigger—30A @ 12 vdc
- 2 downriggers—60A @ 12 vdc

For additional information, please consult appropriate ABYC (American Boat and Yacht Council) and Coast Guard requirements.

Reference:

United States Code of Federal Regulations: 33 CFR 183—Boats and Associated Equipment

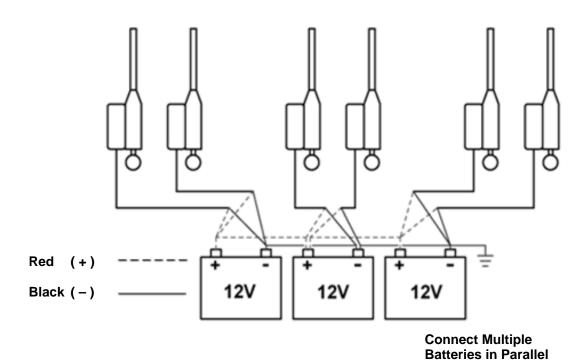
ABYC E-11: AC and DC Electrical Systems on Boats

Powering Multiple Downriggers

When operating multiple Magnums, run a maximum of 2 downriggers per dedicated battery.

Typical Operating Time*:

1 Magnum per battery –
2 Magnums per battery –
10 hours.



16

^{*}Time based on lab results using a 15lb weight and Deep-Cycle batteries. Actual run time will vary.



GETTING STARTED

Manual Descent: Fast or Slow

By turning the clutch knob gently clockwise (toward the boom), you can let your trolling weight descend as fast or as slowly as you wish. Turning the knob counterclockwise (away from the boom) stops the weight. This gives you control to let it plunge rapidly or sink slowly to a predetermined trolling depth. With multiple downriggers, you could start all your weights creeping down, one at a time, and then stop them each in turn.

Powered Descent: One speed fits all.

Hold the toggle switch down until the weight reaches the desired depth and release. The motor will stop when switch is released or moved to the off position.

Raising the Weight

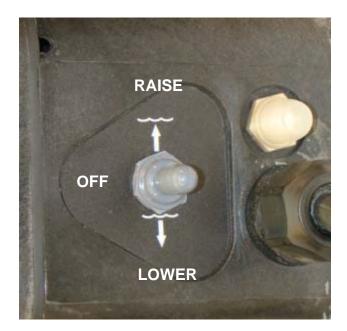
Push the toggle switch up momentarily and release. The weight will rise until it reaches the surface and then automatically stop.

If you want to raise the weight farther push the toggle switch up and hold until the weight reaches the desired position, then release.

To stop the weight during ascent, push the toggle switch down momentarily (approximately 1 second).

NOTE: If your reel continues to slip no matter how hard you tighten the brake adjust knob. Refer to the Trouble-shooting section of this booklet.

CAUTION: The brake adjust knob (clutch) should be adjusted so that it is tight enough to hold the weight and the lure at the speed you are trolling. Over-tightening may cause damage to your downrigger when weight hangs up on bottom structure or other obstacles.





Adjusting the Depth Meter

The Cannon Depth Meter provides non-slip accuracy, plus easy resetting. To reset, just slide the meter away from the reel until the gears are disengaged. Spin meter gear to change setting.

NOTE: Actual fishing depth may vary from depth shown on meter due to trolling speed and weight of cannon ball. (See "Blowback" on page 21)

The Short Stop System

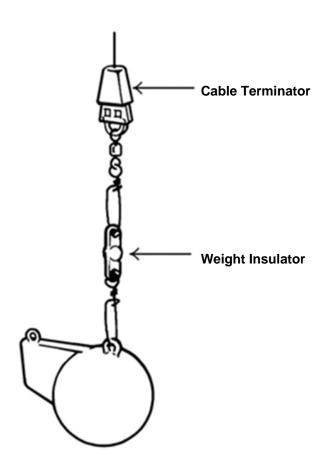
The Short Stop system is composed of three critical components: the electronic unit, the reel conductive path, and the trolling weight insulator.

While the downrigger cable is in the water, there is a small electrical current that flows between the cable and the grounded metal boat components in the water. When the cable clears the water, this current flow will stop. The Short Stop system senses this interruption and turns off the motor. The trolling weight insulator is used to break the cable contact to the water while the weight is still in the water. The reel conductive path allows the circuit path to be made through the structure of the downrigger.

NOTE: It may be necessary to use two trolling weight insulators.

Stopping the weight at water level eliminates the cable strain caused by bouncing weights or weights hitting the boom end. Stopping at water level will also keep the weight from hitting the boat hull.

NOTICE: Short stop and Positive Ion Control features will not function when spooled with monofilament or super lines or if the boat is not properly grounded.





Fishing With Your Downrigger

Release some line from your rod and reel so that the lure is anywhere from 5 to 100 feet behind the boat. This is called drop back. Attach the fishing line firmly into the line release. Place the fishing rod in the rod holder and reel up the slack so that your rod has a slight bend in it. When a fish strikes the lure, the line will separate from the release. Then you will be free to fight the fish and bring it in on your rod and reel.

WARNING—DO NOT TOUCH THE CABLE REEL WHILE THE DOWNRIGGER IS IN USE!

The Positive Ion Control System

Your boat has an electrical charge around the hull in water. If a boat is properly grounded and has a proper zinc anode, that charge should be slightly positive when measured from ground to the downrigger cable. Positive Ion Control (PIC) is the use of electricity to control that charge and its fluctuation so that it is always maintained at a specified set voltage.

The practice of setting up and maintaining a slight positive charge on fishing gear has been used by commercial fishermen for many years. This practice has enabled some fisherman to increase yield when used along with other good fishing and boating practices.

Cannon's electric downriggers offer fishermen a big advantage in being able to stabilize and control the positive charge around their boat. Because of the composite construction of the frame, Cannon downriggers are insulated from your boat's hull charge.

When the stainless steel downrigger cable is lowered into the water, the natural ionization between the cable and the boat creates a positive charge of 0.7 to 0.9 volts in saltwater and 0.3 to 0.6 volts in fresh water. This natural voltage is dependent upon salinity and mineral content of the water. Your actual voltage may vary.



How the Positive Ion Control System Works

The PIC system uses an internal circuit that passes the voltage through the drive train of the Magnum to the shaft. The shaft contacts the cable by means of a ball bearing, spring and, lastly, a one direction button head screw. Care must be taken to ensure contact between the cable and the screw when replacing the cable. When using coated cable, 3-4 ft of coating must be striped when terminating the cable to reel. Take care in ensuring that the striped portion is in contact with the button head screw.

The Positive Ion Control system applies a fixed 0.6 volts on the trolling cable at all times.

Measuring the Natural Electrolysis and PIC Voltage on Your Boat

A voltmeter with a scale of zero to one volt will measure the natural electrolysis. Place the ground lead of the meter on the motor or the battery ground. Place the positive lead on the stainless steel downrigger cable while it is in the water. The downrigger must be unplugged. The voltage you measure on the volt meter is your boat's natural electrolysis voltage. Use the same set up to measure the PIC voltage; just plug in the Magnum and adjust the PIC voltage desired.

Using Positive Ion Control

Positive Ion Control is very effective when trolling. The zone of attraction created at the downrigger wire will attract the fish. It is best to use a short drop back between the downrigger release and the lure. Drop backs of 10 to 20 ft. are typical. A drop back of 50 to 100 ft. will entirely negate the effects of the PIC circuit.

Maintaining Your Downrigger

Periodically, lightly grease the thrust bearing and bearing race found behind the clutch knob. Replace the cable at least every two years.

There are no user serviceable parts internal to the Magnum. Your warranty will be void if opened by anyone other than an authorized or factory service center. For repairs or servicing your downrigger refer to the Warranty Information section of this booklet.



Blowback

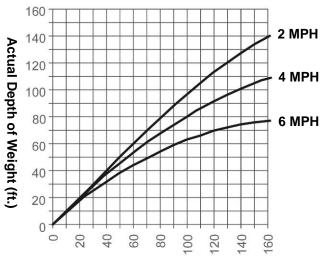
Simply stated, blowback is what happens to the downrigger weight when you pull it through the water behind your boat. As your speed increases, so does the horizontal distance between the weight and your downrigger. The faster you go, the farther the weight is behind you. The farther the weight is behind you, the shallower the weight is.

The following charts provide you with blowback information for three sizes of Cannon downrigger weights pulled at three different speeds with no lures attached and with no current. Current drag, water salinity and the use of non-Cannon products will affect your actual trolling depth.

As an example, the first chart shows that if you are trolling at 4 MPH with an 8 pound weight and you have 100 FT. of cable in the water with no current; the downrigger ball is actually at a depth of about 80 FT.

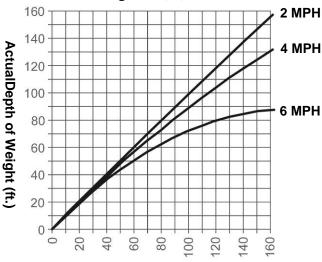
Blowback Charts

8-Lb. Weight at 2, 4, and 6 MPH

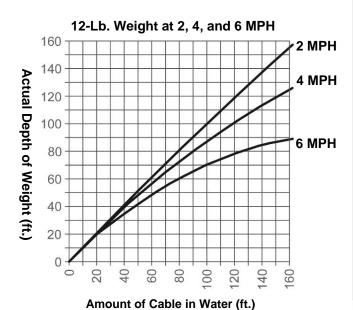


Amount of Cable in Water (ft.)

10-Lb. Weight at 2, 4, and 6 MPH



Amount of Cable in Water (ft.)





Ten Good Trolling Tips

1) Test your lures over the boat side before sending them down and back. Do this to make sure the lure wiggles and wobbles properly without going belly up or wandering off. Some lures can be adjusted, fine tuned actually, to impart maximum action. For example, a slight bend in the tail of a spoon or twist of the hook eye in the nose of a plug can make a noticeable difference in how the lure performs.

Also, when running two or more lures, make sure the offerings are compatible. Lures that run out of harmony with each other are bound to tangle and that means wasted time to straighten out the mess. Testing them first will avoid the problem.

- 2) Consider different sizes, shapes, and colors of lures. No one has ever figured out with precision what makes a fish strike or snub a lure. There is no doubt, that matching the forage (minnows, crayfish, etc.) in color, shape, action, and size can help trigger those strikes from hungry fish. On the other hand, if fish such as bluegills, small mouth bass or Coho salmon are protecting spawning beds, they may attack whatever is threatening. So, bright colors in lures may out produce bland colors.
- 3) Vary trolling speeds. Goosing the engine now and then or slowing to a crawl every so often will change the action of the lures and may get fish to strike them.
- 4) Vary trolling patterns and lead lengths. The amount of line you let out often determines how deep the lure will run and, to some extent, what degree of action it will impart. For starters, consider running lures about ten feet behind downrigger weights. If flat line trolling, put them back about fifty feet, then experiment depending on what the fish do.

Trolling patterns affect lure action too, that is why some anglers like to wheel a lazy S course. On turns, outside lures will speed up momentarily while inside lures hang for a moment or two. Some fish are attracted to lures that change speeds. Also, zigzag patterns allow for more water coverage, plus it keeps lures out of propeller boil, an important consideration for browns and other wary species.

5) Locate fish on a vertical plane. Place lures in areas where fish might be. Skilled fishermen call these areas the "strike zones". They include the edges of the weed beds, structure along bottom, drop-offs, preferred temperature of the target species, and the thermocline. Remember that fish occupy certain areas for certain reasons (sources of food, protective cover, preferred temperatures, etc.).

- 6) Consider special knots and swivels. A good ball bearing swivel will all but eliminate line twist and will aid in getting maximum performance from a lure. Many anglers add the tiny swivels to split rings already on the lure itself. On the other hand, a swivel may dampen the action of a sensitive lure, such as a Rapala. Some fisherman tie tiny improved clinch or loop knots. Loop knots in particular may enhance up and down and side to side action of lures. Any good fishing manual will explain how to tie these and other knots.
- 7) Consider releases for flatline trolling. A good tip is to secure a piece of downrigger cable or heavy monofilament to the water ski hook or handle below the transom of most boats. To the other end of the mono or cable, add a pinch-r-release. After letting out your lure to the desire distance, put the rod in its holder, then bend the tip and secure the fishing line in the release.
- 8) Add a weed guard. Having trouble with weeds hanging up lures? Consider tying a three-inch piece of monofilament a foot above the lure. Leaves, smaller weeds and other debris may catch here momentarily then fall off to the side of the lure without tangling. Weedless lures are another smart consideration. Downrigger cables are effective weed catchers when trolling for pike, muskies, or bass in weed-infested lakes.
- 9) Add a stinger hook. When fish short strike, slap at lures without becoming hooked, adding a stinger hook can solve the problem. Simply tie a treble hook to one end of a four inch piece of monofilament and then tie the extra hook to the last gang of hooks on your lure. The stinger hook, which trails the lure, provides extra insurance.
- **10) Keep hooks sharp**. Some of the best fishermen sharpen all hooks after every fish caught. Hooks get dull through both use and misuse, and probably more fish are lost to dull points than anything else.



Troubleshooting

PROBLEM:

In the UP or AUTO-UP mode the downrigger stops periodically or the circuit breaker trips repeatedly.

SOLUTION:

- Low battery. The battery voltage at the power cord is less than 11.5 volts (measure with a volt meter while the downrigger is pulling up the weight).
- Power cable is too long or too small in diameter.
- Do not overload the downrigger. It is designed to lift up to 20 lb. weights only.

PROBLEM:

Unit does not turn on.

SOLUTION:

- Check polarity on power cable.
- Check Circuit breaker (s)

PROBLEM:

Unit does not count the depth correctly.

SOLUTION:

Reel no longer has 250 ft of cable. If your reel has more or less than 250 ft of cable this can affect the accuracy of the counter.

PROBLEM:

Clutch slips

SOLUTION:

- Retighten clutch knob. Clutch knob should be just tight enough that the clutch does not slip when downrigger is in normal use. Do not use tools of any kind to tighten the clutch, hand tightening should always be sufficient.
- Check clutch disc condition by removing side cover and spool. Replace if necessary.

PROBLEM:

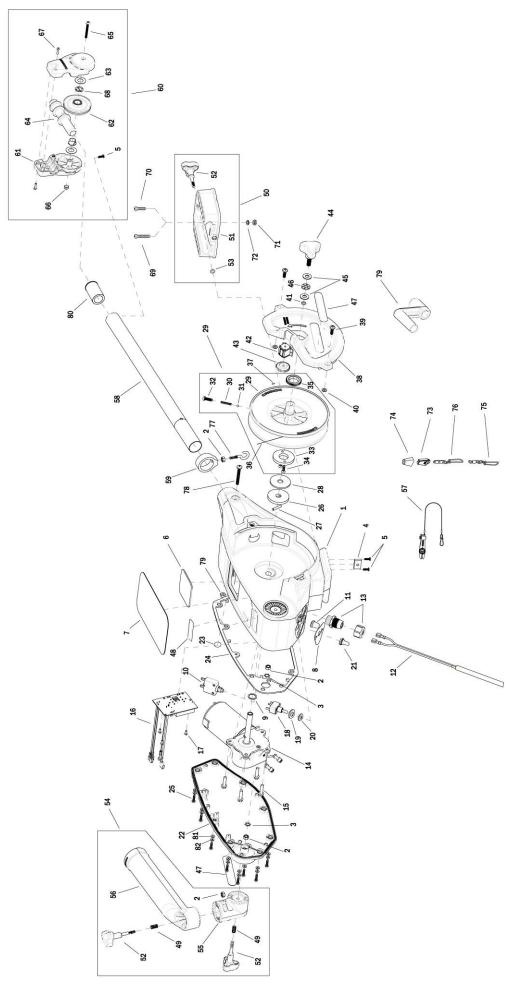
The Magnum fails to continue running after toggle switch is pushed up and held momentarily, while cable is still in water, or is having problems with the PIC voltage.

SOLUTION:

Make sure your boat is properly grounded. A boat that is properly grounded has an electrical path from the negative battery terminal to all metal parts on the boat that contact water. Additionally, in saltwater the boat must be have a proper sacrificial zinc anode and show a natural electrolysis voltage of 0.7 to 0.9 volts. The voltage supply to your downrigger must also be bonded to the boat.







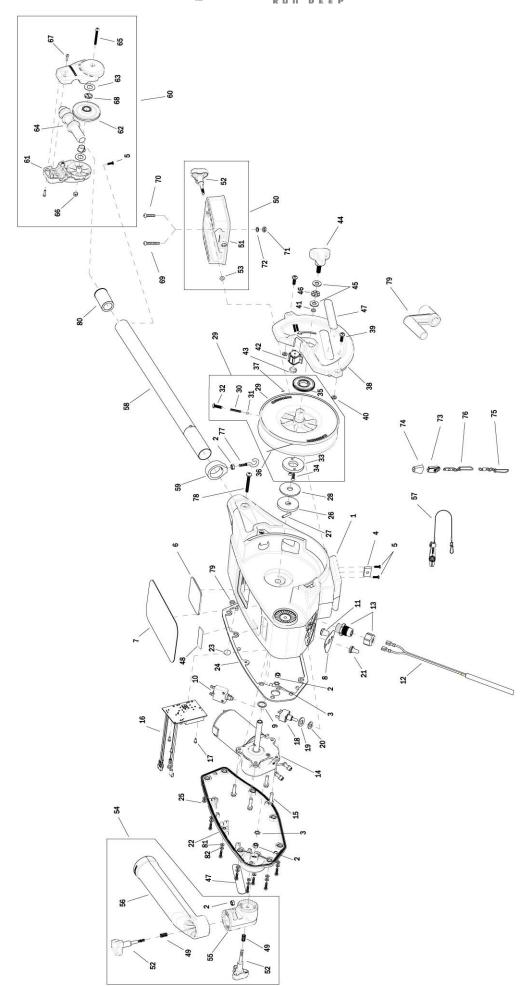
CANNON

1902300 Magnum 5 ST

In the U.S.A., replacement parts may be ordered directly from CANNON Parts Dept., 121 Power Drive, Mankato, Minnesota 56001.. Be sure to provide the MODEL and SE-RIAL numbers of your downrigger when ordering parts. Please use the correct part numbers from the parts list. Payment for any parts ordered from the CANNON parts department, may be by cash, personal check, Discover Card, MasterCard or VISA. To order, call 1-800-227-6433 or FAX 1-800-527-4464.

2277002 ASY HDW RELEASE UNIVERSAL	2290828 24" BOOM - HEAVY DUTY	3397900 BALL HOOK EXTRUSION	3990200 ASSY-CNN, BOOM END (SUB)	3392520 CASE, PULLEY	3392300 SHEEVE, PULLEY	3391507 SHIM, BOOM END	3392013 BOOM END, NEW	3393485 SCREW-#10-24X1.75 PPHMS S	3393124 NUT-#10-32 NYLOK 18-8 SS	2303412 SCREW-#6-20 X 5/8 SELF TAP	3390005 BEARING-NYLINER, #8L5-1/2-F	9280720 HDW SCR 1/4 20X2 TRUSS HD PHIL	9280713 HDW SCR 1/4 20X1 1/2 TRUSS HEA	2263103 NUT-1/4-20 NYLOCK SS	2371712 WASHER-FLAT 9/32 X 5/8 X 1/16	9100100 CON TERMINATOR	9100101 CUSHION SLEEVE TERMINATOR	9100620 HDW SNAP SWIVEL 4/0-37 MARLIN	2200148 ASY SNAP & INSULATOR	9040040 HDW BOLT 1/4-20 ROLLEDTHD HOOK	3393461 SCREW-1/4-20 x 2" SS, PPH	3390910 HANDLE-CRANK, MANUAL	3395905 ADAPTER, BOOM END	3391732 WASHER, SEALING	3394602 WASHER, FLAT, #8, SS		
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77 REEL, ROUGH, 3.75" OD	77 SPRING, REEL	20 BALL BEARING, REEL	74 SCREW-DRIVE #14 X .75" SS	36 PLATE, CLUTCH REEL	18 SCREW-#10-16X.75"HI-LO SS	30 GEAR, REEL, STD	31 WIRE, .034 DIA, CAMO BULK	70 CON LEADER SLEEVE	35 COVER, REEL	34 SCREW-1/4-20 X 3/4 SS PPMS	18 WASHER #10 NYLON RETAINING	05 O-RING, KNOB	77 METER 3 DIGIT	31 GEAR, COUNTER	33 KNOB, SOFT GRIP, CLUTCH	10 HDW WASHER, THRUST	30 HDW BEARING, THRUST	34 DECAL- SIDE, BLACK	10 DECAL-PIC BLACK	12 HDW SPRING RELEASE PIN	30 ASY, MNT BASE DT/MAG(SUB)	55 BASE-MOUNT, DT PRO/MAG ST	01 KNOB-CANNON, SOFT GRIP	00 RING, RETAINING, 1/4" SHAFT	34 ASSY-CNN, ROD HOLDER	00 ARM, DUAL AXIS-ROD HOLDER	33 TUBE, DUAL AXIS RD HLDR
3397907	3392707	3396020	3393474	3391906	3393418	0233560	1015391	9100070	3390205	2373434	2071718	3394605	0220477	0833561	3390103	9010310	9010280	3395634	3395710	2287002	3991930	3391955	3390101	3393000	3991904	3394200	3392033
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FRAME, RAW	NUT-HEX 1/4-20 SS 300SRS	INSERT, PUSH ON	INSERT, BASE	SCREW-#8-18 X 5/8 THD* (SS	LENS-WINDOW MAG DTIV	DECAL, MAG 5	SEAL PLATE, MAGNUM	WASHER, SEAL, DATA	CIRCUIT BREAKER, 25 AMP	BOOT CIRCUIT BREAKER	ASSY, POWER CABLE, RETRO(SUB)	STRAIN-RELIEF, HEYCO M4502	MOTOR/GEAR HOUSING ASSY	SCREW-FLANGE HEX HI-LO	ASY PCA, MAGNUM	SCREW-#6-20 X 3/8	SWITCH, TOGGLE	WASHER, FLAT	HDW SHIM SWITCH .75X.1	BOOT SWITCH	COVER, MOTOR	MIC VENT, PTFE LU LRA MATERIAL	GASKET, COVER	SCREW-#10X.75"PPH HI-LO SS	PLATE, CLUTCH SHAFT	PIN, DRIVESHAFT	PAD, CLUTCH
3392524	2263102	3394722	3394702	2372100	3396510	3395559	3396601	3391730	3398205	1221491	3993220	3392920	3996515	3393411	3394006	2302104	2286792	3391722	2286793	1221490	3390203	401966-3	3396902	3393480	3391907	3392640	3391711
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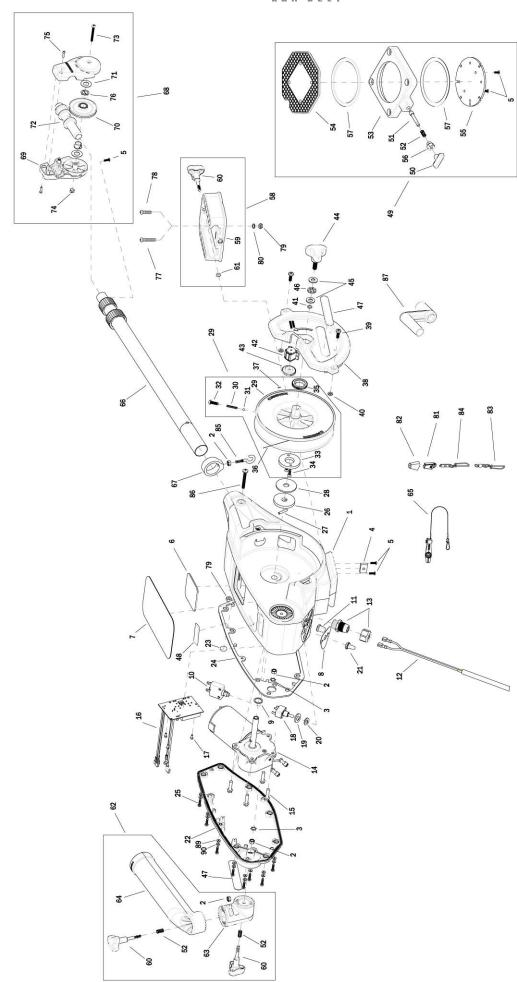


1902301 Magnum 5 ST /E

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REEL, ROUGH, 3.75" OD	SPRING, REEI	BALL BEARING, REEL	SCREW-DRIVE #14 X .75"	PLATE, CLUTCH REEL	SCREW-#10-16X.75"HI-LO SS	GEAR REEL (METRIC)	WIRE, .034 DIA, CAMO BULK	CON LEADER SLEEVE	COVER, REEL	SCREW-1/4-20 X 3/4 SS PPMS	SHER#	O-RING, KNOB	COUNTER 3 DIGIT (METRIC)	GEAR COUNTER (METRIC)	KNOB, SOFT GRIP, CLUTCH	HDW WASHER, THRUST	HDW BEARING, THRUST	DECAL- SIDE, BLACK	DECAL-PIC BLACK	HDW SPRING RELEASE PIN	ASY, MNT BASE DT/MAG(SUB)	BASE-MOUNT, DT PRO/MAG ST	KNOB-CANNON, SOFT GRIP	RING, RETAINING, 1/4" SHAFT	ASSY-CNN, ROD HOLDER	ARM, DUAL AXIS-ROD HOLDER	TUBE, DUAL AXIS RD HLDR
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FRAMI	NUT-F	INSER	INSER	SCRE	LENS-	DECA	SEAL	WASH	CIRCL	BOOT	ASSY,	STRAI	MOTO	SCRE	ASY P	SCRE	SWITC	WASH	HDW (BOOT	COVE	MIC VI	GASKI	SCRE	PLATE	PIN, D	PAD, (
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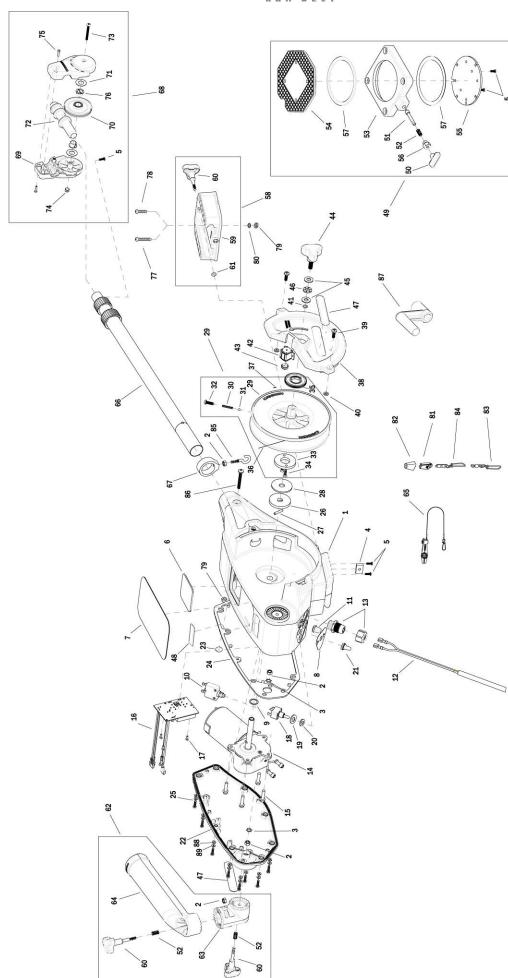


1902305 Magnum 10 STX

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RING, RETAINING, 1/4" SHAFT	ASSY-CNN, ROD HOLDER	ARM, DUAL AXIS-ROD HOLDER	TUBE, DUAL AXIS RD HLDR	ASY HDW RELEASE UNIVERSAL	ASY BOOM TELESCOPIC	BALL HOOK EXTRUSION	ASSY-CNN, BOOM END (SUB)	CASE, PULLEY	SHEEVE, PULLEY	SHIM, BOOM END	BOOM END, NEW	SCREW-#10-24X1.75 PPHMS S	NUT-#10-32 NYLOK 18-8 SS	SCREW-#6-20 X 5/8 SELF TAP	BEARING-NYLINER, #8L5-1/2-F	HDW SCR 1/4 20X2 TRUSS HD PHIL	HDW SCR 1/4 20X1 1/2 TRUSS HEA	NUT-1/4-20 NYLOCK SS	WASHER-FLAT 9/32 X 5/8 X 1/16	CON TERMINATOR	CUSHION SLEEVE TERMINATOR	HDW SNAP SWIVEL 4/0-37 MARLIN	ASY SNAP & INSULATOR	HDW BOLT 1/4-20 ROLLEDTHD HOOK	SCREW-1/4-20 x 2" SS, PPH	HANDLE-CRANK, MANUAL	WASHER, SEALING	WASHER, FLATE, #8, SS	
3393000	3991904	3394200	3392033	2277002	2210821	3397900	3990200	3392520	3392300	3391507	3392013	3393485	3393124	2303412	3390005	9280720	9280713	2263103	2371712	9100100	9100101	9100620	2200148	9040040	3393461	3390910	3391732	3394602	
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20 BALL BEARING, REEL	74 SCREW-DRIVE #14 X .75" SS	06 PLATE, CLUTCH REEL	18 SCREW-#10-16X.75"HI-LO SS	60 GEAR, REEL, STD	91 WIRE, .034 DIA, CAMO BULK	70 CON LEADER SLEEVE	05 COVER, REEL	34 SCREW-1/4-20 X 3/4 SS PPMS	18 WASHER #10 NYLON RETAINING	05 O-RING, KNOB	77 METER 3 DIGIT	61 GEAR, COUNTER	03 KNOB, SOFT GRIP, CLUTCH	10 HDW WASHER, THRUST	80 HDW BEARING, THRUST	34 DECAL- SIDE, BLACK	10 DECAL-PIC BLACK	05 CNN ASY, SWIVEL BASE	01 HDW KNB RELEASE PIN	00 PIN - RELEASE	02 HDW SPRING RELEASE PIN	01 ASY PLATE BASE MACHINED	02 BRK PLATE SWIVEL	19 PLATE, INDEX TS	01 HDW RETAINER RELEASE NUT	04 HDW BEARING SWIVEL BASE	30 ASY, MNT BASE DT/MAG(SUB)	55 BASE-MOUNT, DT PRO/MAG ST	01 KNOB-CANNON, SOFT GRIP
3396020	3393474	3391906	3393418	0233560	1015391	9100070	3390205	2373434	2071718	3394605	0220477	0833561	3390103	9010310	9010280	3395634	3395710	2998905	2249001	3392600	2287002	2267001	2267002	3391919	2277001	9010004	3991930	3391955	3390101
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FRAME, RAW	NUT-HEX 1/4-20 SS 300SRS	INSERT, PUSH ON	INSERT, BASE	SCREW-#8-18 X 5/8 THD* (SS	LENS-WINDOW MAG DTIV	DECAL, MAG 10	SEAL PLATE, MAGNUM	WASHER, SEAL, DATA	CIRCUIT BREAKER, 25 AMP	BOOT CIRCUIT BREAKER	ASSY, POWER CABLE, RETRO(SUB)	STRAIN-RELIEF, HEYCO M4502	MOTOR/GEAR HOUSING ASSY	SCREW-FLANGE HEX HI-LO	ASY PCA, MAGNUM	SCREW-#6-20 X 3/8	SWITCH, TOGGLE	WASHER, FLAT	HDW SHIM SWITCH .75X.1	BOOT SWITCH	COVER, MOTOR	MIC VENT, PTFE LU LRA MATERIAL	GASKET, COVER	SCREW-#10X.75"PPH HI-LO SS	PLATE, CLUTCH SHAFT	PIN, DRIVESHAFT	PAD, CLUTCH	REEL, ROUGH, 3.75" OD	SPRING, REEL
3392524	2263102	3394722	3394702	2372100	3396510	3395880	3396601	3391730	3398205	1221491	3993220	3392920	3996515	3393411	3394006	2302104	2286792	3391722	2286793	1221490	3390203	401966-3	3396902	3393480	3391907	3392640	3391711	3397907	3392707
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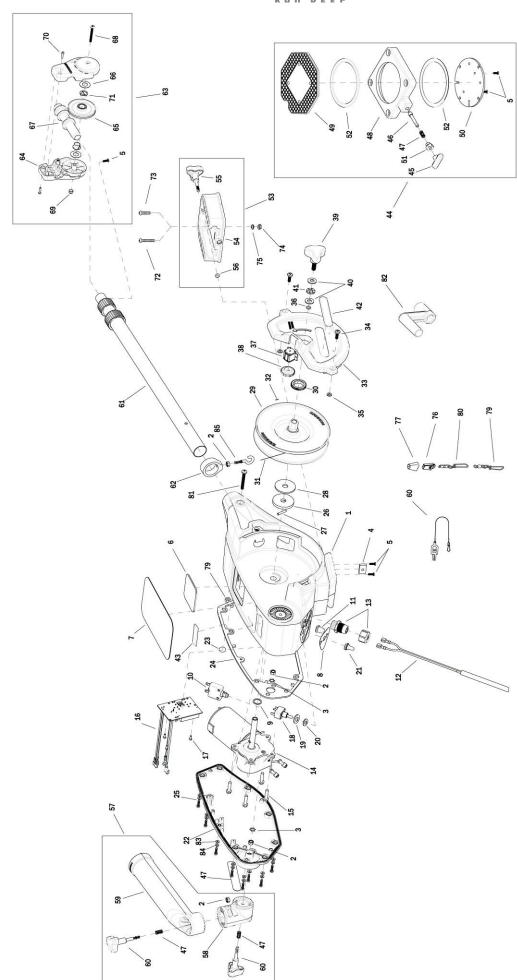
CANNON.

1902306 Magnum 10 STX /E

In the U.S.A., replacement parts may be ordered directly from CANNON Parts Dept., 121 Power Drive, Mankato, Minnesota 56001. Be sure to provide the MODEL and SERIAL numbers of your downrigger when ordering parts. Please use the correct part numbers from the parts list. Payment for any parts ordered from the CANNON parts department, may be by cash, personal check, Discover Card, MasterCard or VISA. To order, call 1-800-227-6433 or FAX 1-800-527-4464.

) RING, RETAINING, 1/4" SHAFT	4 ASSY-CNN, ROD HOLDER) ARM, DUAL AXIS-ROD HOLDER	3 TUBE, DUAL AXIS RD HLDR	2 ASY HDW RELEASE UNIVERSAL	1 ASY BOOM TELESCOPIC) BALL HOOK EXTRUSION	ASSY-CNN, BOOM END (SUB)) CASE, PULLEY) SHEEVE, PULLEY	7 SHIM, BOOM END	3 BOOM END, NEW	5 SCREW-#10-24X1.75 PPHMS S	1 NUT-#10-32 NYLOK 18-8 SS	2 SCREW-#6-20 X 5/8 SELF TAP	5 BEARING-NYLINER, #8L5-1/2-F) HDW SCR 1/4 20X2 TRUSS HD PHIL	3 HDW SCR 1/4 20X1 1/2 TRUSS HEA	3 NUT-1/4-20 NYLOCK SS	2 WASHER-FLAT 9/32 X 5/8 X 1/16	CON TERMINATOR	1 CUSHION SLEEVE TERMINATOR	HDW SNAP SWIVEL 4/0-37 MARLIN	3 ASY SNAP & INSULATOR) HDW BOLT 1/4-20 ROLLEDTHD HOOK	1 SCREW-1/4-20 x 2" SS, PPH) HANDLE-CRANK, MANUAL	2 WASHER, SEALING	2 WASHER, FLAT, #8, SS	
3393000	3991904	3394200	3392033	2277002	2210821	3397900	3990200	3392520	3392300	3391507	3392013	3393485	3393124	2303412	3390005	9280720	9280713	2263103	2371712	9100100	9100101	9100620	2200148	9040040	3393461	3390910	3391732	3394602	
61	62	63	4	65	99	29	89	69	02	71	72	73	74	75	9/	11	78	79	80	81	82	83	84	82	98	87	88	88	
20 BALL BEARING, REEL	74 SCREW-DRIVE #14 X .75" SS	06 PLATE, CLUTCH REEL	18 SCREW-#10-16X.75"HI-LO SS	11 GEAR REEL (METRIC)	91 WIRE, .034 DIA, CAMO BULK	70 CON LEADER SLEEVE	05 COVER, REEL	34 SCREW-1/4-20 X 3/4 SS PPMS	18 WASHER #10 NYLON RETAINING	05 O-RING, KNOB	11 COUNTER 3 DIGIT (METRIC)	10 GEAR COUNTER (METRIC)	03 KNOB, SOFT GRIP, CLUTCH	10 HDW WASHER, THRUST	80 HDW BEARING, THRUST	34 DECAL- SIDE, BLACK	10 DECAL-PIC BLACK	05 CNN ASY, SWIVEL BASE	01 HDW KNB RELEASE PIN	00 PIN - RELEASE	02 HDW SPRING RELEASE PIN	01 ASY PLATE BASE MACHINED	02 BRK PLATE SWIVEL	19 PLATE, INDEX TS	01 HDW RETAINER RELEASE NUT	04 HDW BEARING SWIVEL BASE	30 ASY, MNT BASE DT/MAG(SUB)	55 BASE-MOUNT, DT PRO/MAG ST	01 KNOB-CANNON, SOFT GRIP
3396020	3393474	3391906	3393418	3333011	1015391	9100070	3390205	2373434	2071718	3394605	3320011	3333010	3390103	9010310	9010280	3395634	3395710	2998905	2249001	3392600	2287002	2267001	2267002	3391919	2277001	9010004	3991930	3391955	3390101
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	20	51	52	53	54	22	99	22	28	29	09
FRAME, RAW	NUT-HEX 1/4-20 SS 300SRS	INSERT, PUSH ON	INSERT, BASE	SCREW-#8-18 X 5/8 THD* (SS	LENS-WINDOW MAG DTIV	DECAL, MAG 10	SEAL PLATE, MAGNUM	WASHER, SEAL, DATA	CIRCUIT BREAKER, 25 AMP	BOOT CIRCUIT BREAKER	ASSY, POWER CABLE, RETRO(SUB)	STRAIN-RELIEF, HEYCO M4502	MOTOR/GEAR HOUSING ASSY	SCREW-FLANGE HEX HI-LO	ASY PCA, MAGNUM	SCREW-#6-20 X 3/8	SWITCH, TOGGLE	WASHER, FLAT	HDW SHIM SWITCH .75X.1	BOOT SWITCH	COVER, MOTOR	MIC VENT, PTFE LU LRA MATERIAL	GASKET, COVER	SCREW-#10X.75"PPH HI-LO SS	PLATE, CLUTCH SHAFT	PIN, DRIVESHAFT	PAD, CLUTCH	REEL, ROUGH, 3.75" OD	SPRING, REEL
3392524	2263102	3394722	3394702	2372100	3396510	3395880	3396601	3391730	3398205	1221491	3993220	3392920	3996515	3393411	3394006	2302104	2286792	3391722	2286793	1221490	3390203	401966-3	3396902	3393480	3391907	3392640	3391711	3397907	3392707
_	7	က	4	2	9	7	œ	6	10	=	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	59	30





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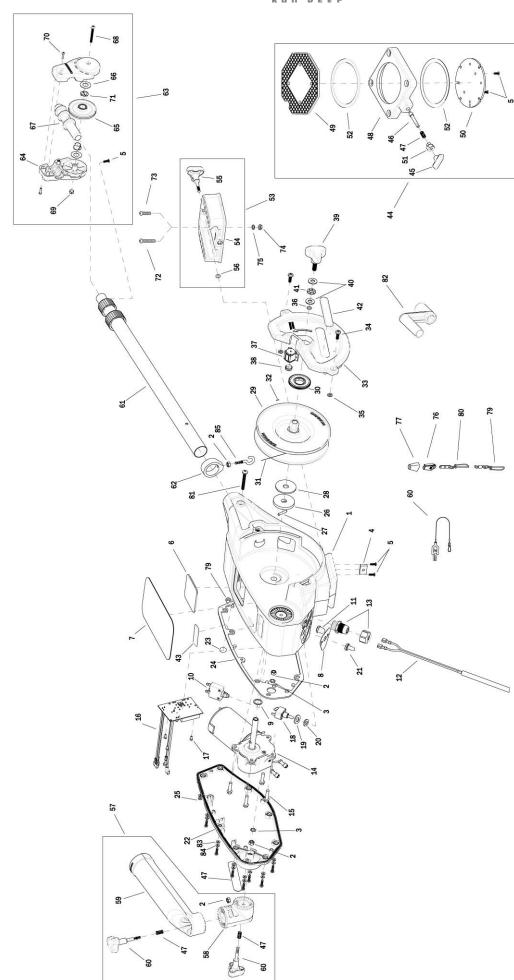


1902310 Magnum 10 STX TS

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4 ASSY-CNN, ROD HOLDER		3 TUBE, DUAL AXIS RD HLDR	9 SALTWATER RELEASE	0 ASY BOOM TELESCOPIC, SS	0 BALL HOOK EXTRUSION	0 ASSY-CNN, BOOM END (SUB)	0 CASE, PULLEY	0 SHEEVE, PULLEY	7 SHIM, BOOM END	3 BOOM END, NEW	5 SCREW-#10-24X1.75 PPHMS S	4 NUT-#10-32 NYLOK 18-8 SS	2 SCREW-#6-20 X 5/8 SELF TAP	5 BEARING-NYLINER, #8L5-1/2-F	0 HDW SCR 1/4 20X2 TRUSS HD PHIL	3 HDW SCR 1/4 20X1 1/2 TRUSS HEA	3 NUT-1/4-20 NYLOCK SS	2 WASHER-FLAT 9/32 X 5/8 X 1/16	0 CON TERMINATOR	1 CUSHION SLEEVE TERMINATOR	0 HDW SNAP SWIVEL 4/0-37 MARLIN	8 ASY SNAP & INSULATOR	0 HDW BOLT 1/4-20 ROLLEDTHD HOOK	1 SCREW-1/4-20 x 2" SS, PPH	0 HANDLE-CRANK, MANUAL	2 WASHER, SEALING	
3991904	3394200	3392033	2200109	3392010	3397900	3990200	3392520	3392300	3391507	3392013	3393485	3393124	2303412	3390005	9280720	9280713	2263103	2371712	9100100	9100101	9100620	2200148	9040040	3393461	3390910	3391732	3394602
22	58	29	09	61	62	63	64	65	99	29	89	69	20	71	72	73	74	75	92	12	78	6/	80	81	82	83	84
3397908 REEL, ROUGH, 3.75" OD	0233560 GEAR, REEL, STD	1015391 WIRE, .034 DIA, CAMO BULK	9100070 CON LEADER SLEEVE	3390206 COVER, REEL, TS	2373434 SCREW-1/4-20 X 3/4 SS PPMS	2071718 WASHER #10 NYLON RETAINING	3394605 O-RING, KNOB	0220477 METER 3 DIGIT	0833561 GEAR, COUNTER	3390103 KNOB, SOFT GRIP, CLUTCH	9010310 HDW WASHER, THRUST	9010280 HDW BEARING, THRUST	3395634 DECAL- SIDE, BLACK	3395711 DECAL-PIC BLACK, TS	2998905 CNN ASY, SWIVEL BASE	2249001 HDW KNB RELEASE PIN	3392600 PIN - RELEASE	2287002 HDW SPRING RELEASE PIN	2267001 ASY PLATE BASE MACHINED	2267002 BRK PLATE SWIVEL	3391919 PLATE, INDEX TS	2277001 HDW RETAINER RELEASE NUT	9010004 HDW BEARING SWIVEL BASE	3991930 ASY, MNT BASE DT/MAG(SUB)	3391955 BASE-MOUNT, DT PRO/MAG ST	3390101 KNOB-CANNON, SOFT GRIP	3393000 RING, RETAINING, 1/4" SHAFT
29 3.	30 00	31 10	32 9.		.,		36 33		38 08	•	40 90	41 90	42 33			45 23	46 33		48 23	49 2;	50 33	51 2	52 90	53 39	54 3;	55 33	56 33
FRAME, RAW, TS	NUT-HEX 1/4-20 SS 300SRS	INSERT, PUSH ON	INSERT, BASE	SCREW-#8-18 X 5/8 THD* (SS	LENS-WINDOW MAG DTIV	DECAL, MAG 10, TS	SEAL PLATE, MAGNUM	WASHER, SEAL, DATA	CIRCUIT BREAKER, 25 AMP	BOOT CIRCUIT BREAKER	ASSY, POWER CABLE, RETRO(SUB)	STRAIN-RELIEF, HEYCO M4502	MOTOR/GEAR HOUSING ASSY	SCREW-FLANGE HEX HI-LO	ASY PCA, MAGNUM	SCREW-#6-20 X 3/8	SWITCH, TOGGLE	WASHER, FLAT	HDW SHIM SWITCH .75X.1	BOOT SWITCH	COVER, MOTOR, TS	MIC VENT, PTFE LU LRA MATERIAL	GASKET, COVER	SCREW-#10X.75"PPH HI-LO SS	PLATE, CLUTCH SHAFT	PIN, DRIVESHAFT	PAD, CLUTCH
3392525	2263102	3394722	3394702	2372100	3396510	3395881	3396601	3391730	3398205	1221491	3993220	3392920	3996515	3393411	3394006	2302104	2286792	3391722	2286793	1221490	3390204	401966-3	3396902	3393480	3391907	3392640	3391711
←	7	က	4	2	9	7	∞	စ	10	7	12	13	4	15	16	17	18	19	20	21	22	23	24	25	56	27	28



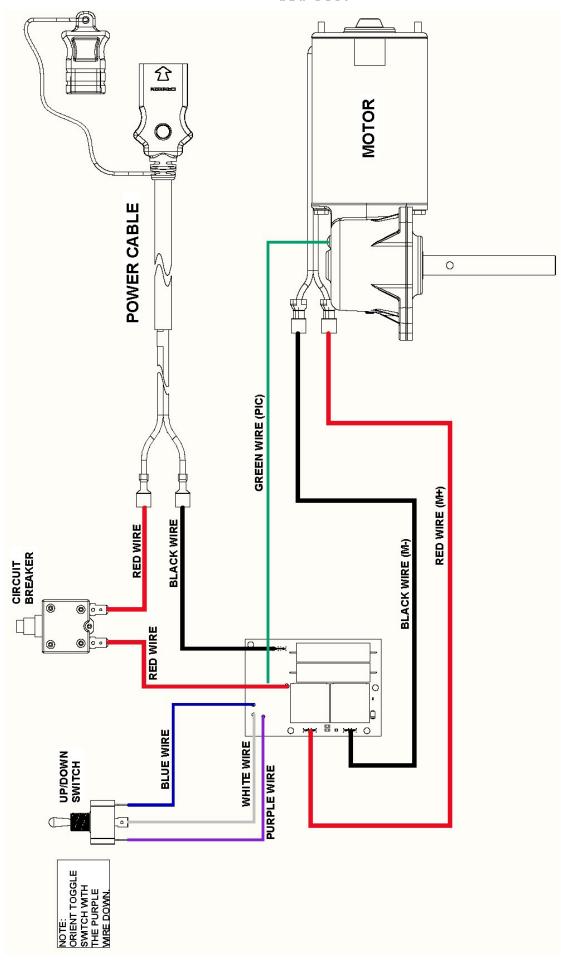




1902311 Magnum 10 STX TS /E

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Magnum Series Wiring Diagram



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ENVIRONMENTAL COMPLIANCE STATEMENT:

It is the intention of Johnson Outdoors Marine Electronics, Inc. to be a responsible corporate citizen, operating in compliance with known and applicable environmental regulations, and a good neighbor in the communities where we make or sell our products.

WEEE Directive:

EU Directive 2002/96/EC "Waste of Electrical and Electronic Equipment Directive (WEEE)" impacts most distributors, sellers, and manufacturers of consumer electronics in the European Union. The WEEE Directive requires the producer of consumer electronics to take responsibility for the management of waste from their products to achieve environmentally responsible disposal during the product life cycle.

WEEE compliance may not be required in your location for electrical & electronic equipment (EEE), nor may it be required for EEE designed and intended as fixed or temporary installation in transportation vehicles such as automobiles, aircraft, and boats. In some European Union member states, these vehicles are considered outside of the scope of the Directive, and EEE for those applications can be considered excluded from the WEEE Directive requirement.

This symbol (WEEE wheelie bin) on product indicates the product must not be disposed of with other household refuse. It must be disposed of and collected for recycling and recovery of waste EEE.

Johnson Outdoors Marine Electronics, Inc. will mark all EEE products in accordance with the WEEE Directive. It is our goal to comply in the collection, treatment, recovery, and environmentally sound disposal of those products; however, these requirement do vary within European Union member states. For more information about where you should dispose of your waste equipment for recycling and recovery and/or your European Union member state requirements, please contact your dealer or distributor from which your product was purchased.

To download product manuals or purchase Cannon products from an authorized dealer, please visit our web page at

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Cannon Johnson Outdoors Marine Electronics, LLC. 121 Power Drive, Mankato, MN 56001 1-800-227-6433

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