

Operating Instructions

Thank you for purchasing iTroll, the most innovative throttle controller ever unleashed on unsuspecting fish! A partial list of iTroll's industry first features include a 32 character lighted display, 1000 possible throttle positions, the last idle feature, the ability to be used on a main (non-kicker motor), and the ability to survive full submersion.

You can take your iTroll "over the top" by purchasing software upgrades to enable Dual Motor Control (Kicker AND Main) and the revolutionary Hunt Mode that is often called "The Deadliest Tool in Fishing"!

iTroll has a free trial of the Hunt Mode (the "test drive") to allow you to determine if you would like to enable the feature permanently - see Section 6 for instructions.

*** Safety Precautions when using iTroll ***

- Always attend iTroll and boat's steering so boat speed and direction can be managed at all times.
- Make sure occupants of vessel are seated at all times.
- iTroll is only to be used to control boat at LOW speeds typically used when trolling.
- iTroll is to be used by Adults only!
- Do NOT use iTroll when having consumed alcoholic beverages or on drugs (prescription or other).
- Boating safety ultimately falls into the hands of the boat's operator. Take a boating safety course and obey all published safety procedures and suggestions. Always use an ignition switch safety lanyard!

*** www.iTroll.us for VIDEOS of product operation ***

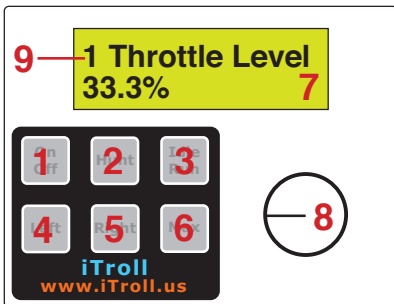


Figure 1

iTroll's Sealed Dial Shaft

iTroll has the ability to survive full submersion. The seal gives the dial some "spring back" where if turned to the right and released, it will return slightly left and vice versa. This is normal. The spring back will diminish as the seal breaks in, but will always be present. All sealed shafts behave in this manner.

iTroll's Buttons & Components:

- 1 - On / Off: Turns iTroll on and off. Also used for other functions.
- 2 - Hunt: Used with Hunt Mode. Also used for other functions.
- 3 - Idle / Run: Used to swap between idle and trolling speeds.
- 4 & 5 - Left & Right: Used to control other manufacturer's kicker motor steering units (steering units NOT included with iTroll)
- 6 - Max: Engages maximum throttle. Also used for other functions.
- 7 - LCD Display with Backlight
- 8 - Speed / Throttle Dial (Knob)
- 9 - Indicates the motor iTroll is operating, If iTroll is NOT dual motor enabled, this is always "1". If dual motor enabled, it is a "1" for kicker and "2" for main motor.

*** Section 1: Turning iTroll On and Off ***

1.1: Turn iTroll On: Press **On** Button

1.2: Turn iTroll Off: In any operational mode, press and HOLD **Off** Button for 3 seconds.

*** Section 2: Manual Throttle Operation ***

2.1: Start motor you will be trolling with and let it warm up until it idles smoothly.

2.2: Turn iTroll on (See 1.1).

If your iTroll is Dual Motor Mode enabled (optional software upgrade, see Section 9), a screen will be displayed that asks you to select the motor that iTroll will control. This screen will only be visible for a few seconds, and if you DON'T make a selection, iTroll will remember the motor it was operating when last used. Note: In the display, the number in front of "Throttle Level" indicates the motor that iTroll is controlling.

2.3: TILLER motors: Release tension knob on throttle handle to prevent sticking, place motor at idle speed and engage forward gear.

REMOTE THROTTLE motors: Put motor in gear and at idle speed.

2.4: iTroll's screen will read "Throttle Level 0%" or "Turn Dial to Zero" if dial is above zero. Note: iTroll has a safety feature that when turned on, if the dial is above zero, it has to be turned to zero before it will control the motor's throttle. This is to prevent the boat from accelerating unexpectedly.

2.5: Set desired motor speed with speed control dial. iTroll will continuously display the amount of throttle (in %) you are using.

2.6: Neutral Safety Feature (remote throttle motors only): Placing your boat's gear shift in neutral will place iTroll in idle. iTroll will display throttle setting before shifter went to neutral. This feature prevents damage to your gear box as the motor will be at idle speed when it is put back into gear. When shifter is put back in gear, iTroll will return to Step 2.4 above. Note: For feature to be operational, iTroll will need optional parts to interface to boat's shifter.

2.7: When you hook a fish, press the **Idle** button to put motor at idle speed. iTroll will display the exact throttle setting being used when fish was hooked.

2.8: Once fish is released or boated, resume previous trolling speed by pressing the **Run** button. You can exit idle mode at a different speed than you entered by turning the dial. iTroll's display will show what throttle setting will be engaged when exiting idle.

iTroll Pro Staff Tip! If it's windy, when you idle the motor, the wind can drastically alter the boat's heading. You can exit idle at zero throttle and then dial in just the right amount of throttle to maintain your intended heading when an angler is fighting a fish.

2.9: The **Max** button is used to apply a burst of power to raise lure depth, set hook after a fish strike, or to apply extra power when needed to steer boat in windy conditions. Note: Max button only works when you are pressing it.

iTroll Pro Staff Tip! Use Max function to rapidly let line out once bait “grabs” water. Watch for strikes! - The falling bait often gets hit!

2.10: Last Idle Feature: Press the **Hunt** button to display the throttle level prior to idling the motor in Step 2.7. Most often this is the speed where you last hooked a fish.

2.11: Hunt Enabled iTroll's only - Enter Hunt Mode by first idling the motor by pressing the **Idle** button. You then **HOLD** the **Hunt** Button down and then press and release the **On** button. It's easy to remember this sequence as “Hunt On”!

***** Section 3: Operation of iTroll in Hunt Mode *****
***** Hunt Enabled or Hunt Test Drive iTroll units only *****

If using Hunt Mode for the first time, you must set Hunt's safety limits for your particular boat - see sections 7 AND 8. Additionally, the Hunt parameters initially programmed into your iTroll are very conservative and will most likely need to be reprogrammed (step 3.2 below).

Hunt mode is accessed through Step 2.11 of manual control of the throttle, repeated here:

*2.11: Hunt Enabled iTroll's only - Enter Hunt Mode by first idling the motor by pressing the **Idle** button. You then **HOLD** the **Hunt** Button down and then press and release the **On** button. It's easy to remember this sequence as “Hunt On”!*

3.1: iTroll's screen will show a summary of last stored Hunt parameters (described in Section). Press **Hunt** button to start Hunt Mode.

3.2: To change any of the Hunt Parameters OR any of the Hunt Limits, idle the motor by pressing and releasing the **Idle** button. Press the **Hunt** and **Max** buttons **at the same time** and then reference Section 4 of these instructions.

3.3: You can jump to the next throttle step by pressing the **Hunt** button.

3.4: If you get a hook up, pressing the **Idle** button will put the motor at idle speed and iTroll will display the throttle setting where the hook up occurred.

iTroll Pro Staff Tip! If it's windy, when you idle the motor, the wind can drastically alter the boat's heading. You can exit Hunt Mode by pressing and releasing the off button which returns you to manual throttle mode. You can then dial in just the right amount of throttle to maintain your intended heading when an angler is fighting a fish. When fish is released or boated, return to Hunt via step 2.11.

3.5: Pressing the **Run** button will resume the Hunt program.

3.6: The **Max** button is used to apply a burst of power to rapidly let line out, raise lure depth, set hook after a fish strike, or to apply extra power when needed to steer boat in windy conditions. When Max button is released, Hunt Mode resumes.

3.7: To exit Hunt Mode and return to manual throttle control, simply press and release the **Off** button.

***** Section 4: Reprogramming Hunt Parameters *****

Hunt mode programming is accessed through Step 3.2 of Hunt Mode operation, repeated here:

3.2: To change any of the Hunt Parameters OR any of the Hunt Limits, idle the motor by pressing

and releasing the idle button. Press the **Hunt** and **Max** buttons *at the same time* and then reference Section 4 of these instructions.

4.1: You will now see the screen to change the MinSpeed setting.

4.1A: SKIP this step if you do NOT want to reprogram the Hunt Low and High limits: If you would like access the menu to change the Hunt Low and High limits, press the **Idle** and **Max** buttons *at the same time*. Once menu is accessed, turn dial to display new limits. Press **Hunt** button to store limits. When limits are set, iTroll resumes to Step 4.2.

4.2: Turn dial to show new MinSpeed in iTroll's display. Press **Hunt** button to store new MinSpeed value.

Note: iTroll will NOT allow the MinSpeed value to be higher the Hunt Low Limit.

4.3: Turn dial to show new MaxSpeed in iTroll's display. Press **Hunt** button to store new MaxSpeed value.

Note: iTroll will NOT allow the MaxSpeed value to be higher than the Hunt High Limit.

4.4: Turn dial to show new Step Size. Press **Hunt** button to store new Step Size value.

Note: Maximum step size is 10%.

iTroll Pro Staff Tip! For best precision keep step size to smallest value that makes a noticeable change in boat speed.

4.5: Turn dial to show new Step Time. Press **Hunt** button to store new Step Time value.

Note Maximum Step Time is 20 minutes.

iTroll Pro Staff Tip! Smaller step times work better. Its better to try 10 speeds in 20 minutes (2 min. steps) rather than staying at one speed for 20 minutes (20 min. steps).

4.6: iTroll will return to step 3.1.

***** Section 5: Description of Hunt Mode (Speed Varying Program) *****

Hunt Mode is a software upgrade that is in every iTroll. **Once unlocked, Hunt Mode is permanently enabled for the life of your iTroll.** Call your dealer or Innova at (909) 971-0000 to purchase an unlock code. Please note that unlocking Hunt Mode is performed in the field and takes just a few minutes.

iTroll's Hunt Mode is the most powerful and revolutionary feature ever put into a throttle controller. Before iTroll, throttle controllers were purely reactionary and took a passive role in the fish catching experience. In comparison, an iTroll in Hunt Mode is literally stalking the fish and taking an ACTIVE role in your angling success. Hunt Mode is THE answer to any troller's worst nightmare - the "Speed Rut". It's no wonder that an iTroll in Hunt Mode is considered to be **"The Deadliest Tool in Fishing!"**

Hunt Mode is a speed varying software program that constantly goes between program-mable slowest and fastest trolling speeds. In between these two speeds, it will stop at a number of speeds on the way up and down for a time interval that you set.

For example: You can set a program to vary the boat's speed from 10% to 20% throttle in 3% steps with the boat maintaining each throttle speed for one minute. For this program, the throttle will behave as follows:

10% - 13% - 16% - 19% - 20% - 17% - 14% - 11% - 10% repeat.

iTroll's Hunt Mode is the most efficient way to determine what baits and speeds are the most productive to fish. If you look at the speed program in the previous paragraph, there are eight speed combinations. If there are 4 different baits being trolled, Hunt Mode will allow you to make 32 bait / speed presentations (4 baits X 8 speeds) to the fish every 8 minutes!

This is the information displayed on iTroll's screen when in Hunt Mode:

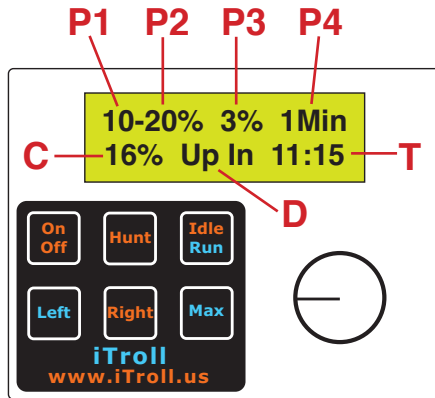


Figure 2

The top line of iTroll's display shows the Hunt Program that is being run.

A Hunt program contains **four programmable parameters:**

- P1 = "MinSpeed" (Lowest throttle setting of the Hunt program)
- P2 = "MaxSpeed" (Highest throttle setting of the Hunt program)
- P3 = "Throttle Step Size" (Size of steps is from 1 - 10%)
- P4 = "Step Time" (Minutes between steps from 1 - 20)

The bottom line of iTroll's display shows where you are in the Hunt Program:

- C = Current throttle setting
- D = Direction of next step (Up or Down)
- T = Time remaining until throttle step occurs

Tips from iTroll's designer on mastering the ULTIMATE power of Hunt Mode:

- Make your Hunt programs stop at different speeds on the way up than on the way down for MAXIMUM speed variety! Subtract your MinSpeed setting from your MaxSpeed setting. If the difference is an EVEN number, use ODD steps and vice - versa. See blue text above for an example.
- When Hunt finds a speed that the fish prefer (let's use 18% as an example), DON'T go to manual throttle and static troll at 18%! Reprogram your Hunt parameters to bracket 18% so when the fish's speed preference changes (it always will), you will notice the pattern where strikes occur and can simply re-bracket your Hunt parameters up or down accordingly! A sample program that brackets 18% might be (15-20%, 2%, 2Min). This Hunt program will cover these speeds: 15% - 17% - 19% - 20% - 18% - 16% - 15% - repeat. Please note that we used this tip WITH the first one to cover EVERY speed from 15 - 20%!

- The previous bracketing program is more effective than a straight 1% step program (example: 15-20%, 1%, 2Min) that hits the same speeds because the baits have more of a “fleeing” or stalling action during a speed change with the 2% step program.

*** Sec. 6: “Try Before You Buy” - A Free Test of iTroll’s Hunt Feature ***

If you have not purchased the software upgrade to permanently enable the Hunt feature, every iTroll has a 100% free “test drive” of the fully functional Hunt Mode. Once activated, the test drive will allow you to use Hunt Mode for the next 50 On and Off cycles of your iTroll. Once the 50 cycles are used, the test drive ends. To activate the test drive, you must access iTroll’s exclusive “Digital Padlock” that allows you to activate software upgrades in the field.

6.1: iTroll must be OFF.

6.2: The Digital Padlock is accessed by **HOLDING** the **Idle** button down, then **HOLD** the **Max** button down (at this point you are holding down two buttons), then press and release the **On** button. The Digital Padlock will activate and the screen will read “Lock #1”.

6.3: Turn the dial so the number on the display’s second line is zero. Press the **Hunt** button 4 times (padlock combination = 0, 0, 0, 0) to activate the Hunt Test Drive. Note: If the test drive has already been used in your iTroll, you will see “Invalid Combo” on iTroll’s display instead of the Test Drive confirmation screen.

6.4: When using the Test Drive, there will be a screen that appears when you turn on your iTroll that tells you how many times you have used the Test Drive.

**** Section 7: Determine Safety Limits of Hunt Mode for Your Boat ****

*** Hunt Enabled or Hunt Test Drive iTroll units only ***

Hunt mode has two limits that are typically set only **ONCE** for a specific boat. If needed, these limits can be changed at any time if the amount of weight in the boat varies a lot or if the boat is used in greatly varying altitudes (motors lose power at altitude).

7.1: Hunt Low Limit (HLL):

This sets a ceiling on the MinSpeed value of a Hunt program. This is a convenience limit so you don’t troll too fast.

7.2: Hunt High Limit (HHL):

This sets a ceiling on the MaxSpeed value of a Hunt program.. This is safety limit! iTroll is NOT designed to control boat at high speeds.

There are many variables in boats (hull design, weight, motor HP, prop design, altitude, etc.). A water test is necessary to determine the best Hunt Low and High limits for a particular boat. Note: If your iTroll is set up to control dual motors, iTroll remembers independent limits for EACH motor. Determine the values for both your MAIN and KICKER motors.

7.3: It is assumed that you are familiar with the basic operation of iTroll described in Section 2. If not, spend a few minutes operating your boat using iTroll.

7.4: On a stretch of water free from obstructions and other boat traffic, run an assortment of baits close to your boat so you can see their "action". It may be necessary to place the rod tip in the water to get bait deep enough to see it's action. Using iTroll's display, note the slowest and highest speeds where your baits have acceptable action. Write down these speeds so they can be used for Low and High limit programming. Take note of wind and current conditions as you may have to compensate for them when setting the limits.

***** Section 8: Programming Hunt Mode Low and High Limits *****

***** Hunt Enabled or Hunt Test Drive iTroll units only *****

8.1: The menu to reprogram the Hunt Low and High limits are a side menu when you program iTroll's regular Hunt Parameters (MinSpeed, MaxSpeed, Step Size and Step Time). Simply follow the steps in Section 4 and make sure you **perform Step 4.1A**.

***** Section 9: Dual Motor Control Feature *****

Dual Motor Mode is a software upgrade that is in every iTroll. **Once unlocked, it is permanently enabled for the life of your iTroll.** Call your dealer or Innova at (909) 971-0000 to purchase an unlock code. Please note that unlocking Dual Motor Mode is performed in the field and takes just a few minutes. When dual motor enabled, iTroll can control BOTH your main and kicker motors.

If dual motor mode is enabled, when you turn your iTroll on, you will see a screen that asks you to select the motor that iTroll will control. This screen will only be visible for a few seconds, and if you DON'T make a motor choice, iTroll will remember the last motor it was operating prior to being shut off.

Note: Servo motor installation is required on throttle of second motor to allow iTroll to control it. Parts to do so are available at additional cost.

***** Section 10: Left and Right Steering Buttons *****

iTroll can control other manufacturer's steering units (NOT included with iTroll) that link to your kicker motor. Contact the manufacturer of your particular steering unit for instructions on how to interface it with iTroll. Please see iTroll's installation instructions for technical information on steering outputs.

iTroll's steering buttons only operate when iTroll is ON.



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iTroll Limited Warranty

Innova Design & Distributing, Inc. (Innova) warrants iTroll to be free from manufacturing defects under normal use and conditions for two (2) years from date of original user purchase. Innova, at its sole discretion, will either repair the product or replace the product, provided the manufacturing defect is verified along with proof of purchase. To obtain warranty service call 1-909-971-0000.

This warranty is void if the product is:

- A) Damaged through negligence, misuse, abuse or accident.
- B) Modified, repaired, or tampered with by anyone other than Innova.
- C) Units on which the serial number has been defaced, modified or removed.

This warranty does NOT cover:

- A) Damage due to improper installation.
- B) Fire, smoke, or heat damage.
- C) Damage or improper operation of unit caused by customer abuse, misuse, negligence, or failure to follow correct installation procedures as provided with product.
- D) Costs of shipping of the product to and from Innova for warranty service

This warranty is non-transferable and applies only to the original purchaser and does not extend to subsequent owners of the product. Any applicable implied warranties, including the warranty of merchantability, are limited in duration to a period of the expressed warranty as provided herein beginning with the date of original purchase at retail and no warranties, whether expressed or implied, shall apply to the product thereafter. Innova makes no warranty as to the fitness of the product for any particular purpose or use. The extent of Innova's liability under this limited warranty is the repair or replacement provided above and, in no event, shall Innova's liability exceed the purchase price paid by the purchaser of the product. Under no circumstances shall Innova be liable for any loss, direct, indirect, incidental, special, or consequential damage arising out of or in connection with the use of this product.