Generation 2.5
Owner's Manual
Software Version: OS7.0
USA and International Patents Pending
Made in USA

Dual Resolution "Click" Dial

Unbelievable throttle control
Weatherproof
Military grade

Keypad with backlighting.
Turns on and off with ambient
light monitoring technology.

Available only on iTroll G2.5 & G3!

iTroll G2.5 Highlights
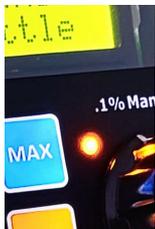
Throttle Steps
1,000
vs
400
vs
250

We have 1,000 Throttle positions. The other guys have 400 and 250. We have 2.5 times more steps than the next best!

A throttle controller is for boat control. Nobody does that better than iTroll!

HUNT Mode Dual

HUNT Mode Dual is standard in the G2.5.

It was developed to be the perfect intersection of fish catching power and ease of use!

Keypad Indicator LED

A daylight visible LED is inlaid in the Keypad's face.

The LED indicates the status of multiple functions in the G2.5!

Ball / Gimbal Mount

A ball mount is standard with the G2.5.

Note that a RAM arm and base are NOT included with the G2.5. There are multiple base types and arm lengths, so we are unable to determine what works with your install.

Waterproof Servo

In a marine environment, we think this is a no - brainer. Yes, it's more expensive. At iTroll quality is more important than low cost.

All of our competitors use NON Waterproof servos to maximize profit.

The Best Warranty

We have the industry's best and longest warranty, and it covers the servo!

Along with the warranty comes our legendary customer service.

Table of Contents:

Presenting the iTroll G2.5! Building on the success of the iTroll G1 & G2, we once again reinvent the throttle controller. A <u>partial list</u> of the innovations in this unit:
• Dual resolution, auto ranging "Click Dial"
• Fully illuminated six button keypad
• HUNT Mode improvements:
  The G2.5 unit contains "HUNT Mode Dual" where each of the six programs in memory can be configured as a "CUT" or "Bump" program.
• All new user interface

Safety Precautions when using iTroll
• Always attend iTroll and steering to manage boat's speed & heading.
• READ the owner's manual so you are familiar with iTroll's operation.
• Manage iTroll's cable so it does not present a tripping hazard.
• Make sure occupants of vessel are seated at all times.
• iTroll is only to be used at LOW speeds that are typically used when trolling.
• iTroll is to be used by Adults only!
• When using HUNT Mode, use throttle, time and step settings that will NOT cause Occupants to lose balance or fall overboard.
• Do NOT use iTroll when under the influence of alcohol, prescription drugs or controlled substances.
• Boating safety ultimately falls into the hands of the boat's operator. Use common sense at all times! Take a boating safety course and obey all published safety procedures and suggestions. Always use an ignition switch safety lanyard!
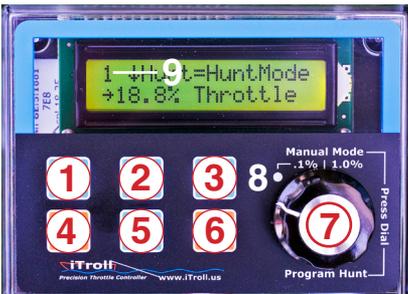
iTroll G2.5 has a lighted keypad! This totally transforms your night or low light fishing experience! In typical iTroll fashion, lighting the keypad wasn't enough. . . .

Modern boats with multiple graphs & other accessories are power hungry! We monitor the ambient lighting conditions and how it is changing so the keypad's lights are on only when necessary to save precious battery capacity.

iTroll's Buttons & Components:
1 - On / Off / Exit: Turns iTroll on and off. Also used for other functions.
2 - Idle / Run: Used to swap between idle, drag and trolling speeds.
3 - Max: Engages maximum throttle. Also used for other functions.
4 - Left: Used to control third party steering systems.
5 - Hunt / Func: Used with Hunt Mode. Also used for other functions.
6 - Right: Used to control third party steering systems.
7 - Click Dial
8 - Status LED
9 - Indicates what motor iTroll is operating (1 or 2)

Click Dial Safety Clutch:
If the dial is turned at a rapid rate, iTroll G2.5 limits the amount of throttle change that occurs. Actions that can cause gross dial movement are: Someone falling when holding the dial, or the dial is spun by a hand or arm when someone reaches over the dial to grab something. At iTroll, safety ALWAYS comes first through brilliant engineering!

Turn iTroll On:

ON
OFF
EXIT

Press and Release

Turn iTroll Off:

ON
OFF
EXIT

Press and HOLD
for 3 seconds

Section 2: Manual Throttle Operation

2.1: Start motor and let it warm up until it idles smoothly, then turn iTroll on.

2.2: TILLER motors: Release tension knob on throttle handle to eliminate friction. Put motor at idle speed and engage forward gear.

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

2.3: Adjust Throttle

TURN
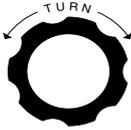
2.4: Change Throttle Resolution

Throttle can be set to change in 1.0% (coarse) or 0.1% (fine) steps.
Orange LED on keypad is illuminated when FINE resolution (0.1%) is selected.

Note: In MANUAL Mode, the Dial is auto ranging. When the throttle is decreased below 1%, iTroll automatically switches to fine (0.1%) resolution. The same will occur if you go above 99% throttle. **For safety purposes, when the throttle is in FINE resolution and is not changed for 20 seconds, iTroll will switch to COARSE resolution to provide rapid throttle movement in case you need to avoid other boats or obstacles.**

2.5: Idle / Run Function

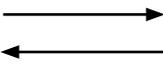Puts throttle at IDLE, push again to resume trolling speed. Used when fighting or netting fish. Keypad LED flashes once per second when at idle.

IDLE
RUN
Trolling

→
←

IDLE
RUN
Idle

Special feature: DRAG Mode - Section 5.2

2.6: MAX Throttle Function
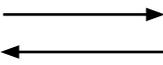
Gradually increases throttle to 100%. Press and HOLD to increase throttle. Release button to return to trolling speed.

MAX

Special feature: SCS - Section 5.1

2.7: Last Idles Recall

 Displays the last 3 throttle settings that were used when you pressed the Idle button. This is valuable information as these were speeds where fish were caught!

HUNT FUNC   Press and HOLD
     for 3 seconds

2.8: Go To HUNT Mode - (Section 3)

HUNT FUNC **x 2**

2.9: Neutral Safety Feature (remote throttle motors only)
Note: Available only if the optional neutral safety interface is installed in the boat. Moving your boat's gear shifter from in gear to neutral will place iTroll at idle. 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 manual mode.

Section 3: HUNT Mode Operation
See Section 8 for a complete explanation of HUNT Mode Dual

3.1: There are two screens used in HUNT Mode Dual

"START" Screen:
HUNT Mode starts here

```
25.0% A Cut→18.0%
0:30  B #1   0:08
```

"Start" Screen Info:
A - HUNT Mode behavior
B - Program number (1 - 6)
——Trolling throttle & time
——Cut or Bump throttle & time
 - Throttle is at IDLE

"TIMER" Screen:
HUNT Mode is running

```
25.0%  Cut→18.0%
0:28  ←←1  A  0:08
```

"Timer" Screen Info:
A - Arrows next to address shows
     which throttle is active
 - Contains timer indicating that
   HUNT is running
 - Switches between trolling and cut
   or bump throttles

3.2: Start screen functions
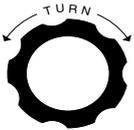
Select HUNT Program
Addresses are 1 thru 6 as shown in Start screen diagram above (3.1)

HUNT FUNC
Short Press and Release
Start HUNT Mode
Motor goes to trolling throttle and iTroll shows "Timer Screen"
Go To Sec 3.3

LONG Press (3 Seconds)
Reprogram HUNT parameters
Reprogramming screens displayed See Section 10

ON OFF EXIT
Exit HUNT Mode
Return to Manual Mode (Section 2)

4

3.3: Timer screen functions

IDLE RUN

Idle Motor
Throttle to IDLE,

See "Drag" Mode
Section 5.2

MAX

Max Throttle
Press and HOLD to
increase to 100%.
Release to return to
Troll.
See SCS - Section 5.1

x 2

Reprogram HUNT parameters
Reprogramming
screens displayed
See Section 9

ON OFF EXIT

STOP HUNT
Throttle to IDLE,
Return to
Start screen
Go To Sec 3.2

HUNT FUNC

Jump Hunt Step
Switches to next
throttle step in the
HUNT program that
is running.

The ability to **change speeds on demand** before HUNT Mode's timer would automatically do so is a powerful tool. If you see fish on your graph, you can estimate when the baits are right on top of them and you can force iTroll to change speeds by going to the next step in the HUNT program.

Section 5: iTroll's Special Functions

5.1: "SCS" - Secondary Cruising Speed: **Works in both MANUAL and HUNT Modes.** Allows you to set / maintain a higher throttle setting than where the dial is set . . . WITHOUT touching the dial! This allows you to raise your baits when crossing low spots or to use a higher throttle setting to get your boat back on course after being hit by wind gusts or wakes. Without "SCS" you would lose your troll speed because dial movement would be required to increase throttle.

To Set SCS:

MAX   **Then**   **IDLE RUN**

Press / hold to
advance throttle

Press to STOP
throttle advance

To Release SCS:

IDLE RUN

Press to release SCS
Trolling throttle resumes

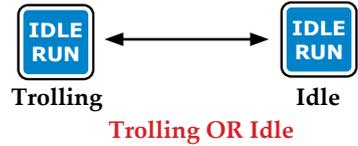Note: Keep pressing MAX when you press IDLE

5.2: Drag mode **is a STANDARD feature of iTroll, but it can be turned on and off to suit your preferences. All iTroll units ship with drag mode OFF. To turn drag mode on or off, see the "OPTIONS MENU" in section 12.**

DRAG Mode (when ON), changes the standard function of the Idle / Run button from two stage operation to three stage operation.
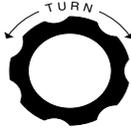
| IDLE RUN → IDLE RUN → IDLE RUN | | IDLE RUN ↔ IDLE RUN |

Trolling   **DragSpeed**   Idle
Example: 15%   Example: 5%   0%

Trolling   **Idle**

Trolling OR Idle
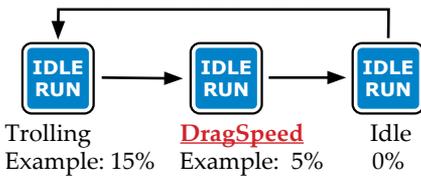
To adjust DRAGSpeed:

Drag is a throttle setting lower than troll and higher than idle. This allows you to fight fish while using throttle to maintain the boat's heading, keep planer board from tangling, or to raise your baits to keep them from snagging bottom. When in Drag Mode, the DragSpeed is adjustable per diagram above. When iTroll is in DRAG Mode, Keypad LED flashes TWICE per second.

5.2.1: Finding Stored DragSpeed: Note: DRAG Mode must be On.
In MANUAL mode, when the Max button is pressed, DragSpeed is shown on display.

5.2.2: DRAG Mode Safety:
If trolling speed is LESS than the DragSpeed stored in memory, DRAG Mode will not function when the Idle / Run button is pressed because iTroll will not accelerate the boat when you expect the throttle to be reduced. To make DRAG Mode functional again, raise troll speed higher than DragSpeed (see 5.2.1 to find DragSpeed), press Idle / Run button to enter DRAG Mode and lower it with dial.

5.3: Optional Remote Idle / Run switch(es):
You can purchase (at additional cost), touch pads that can be mounted anywhere in your boat. Additionally, you can run multiple pads in different locations! The touch pads work EXACTLY like the Idle / Run switch on iTroll's key pad. These pads can be mounted any-where you like- at the transom, bow or on the gunnel.

5.4: DUAL MOTOR Capability:
Optional software upgrade to allow a single iTroll to control two motors. See Section 13.

Section 6: 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. A steering unit that we can recommend is the Tailfin by Powrtan. iTroll's steering buttons only operate when iTroll is ON.

Section 7: Integrated Ball (Gimbal) Mount
Compatible with RAM Mount "B" size components (one inch ball).

Loosen nylon thumb screws to detach the control head of iTroll from the ball mount.
DO NOT "bottom out" any fastener (thread - 1/4 x 20) in iTroll's back plate - the holes are only .2 inches deep! Fasteners that go deeper can puncture the base plate. Water can then enter the iTroll. Damage from punctures is NOT covered under warranty!

HUNT Mode is the most revolutionary feature ever put into a throttle controller and it's commonly considered to be "The Deadliest Tool in Fishing"! Prior to iTroll, throttle controllers were only reactionary and had a passive role in the catching experience. **An iTroll in HUNT Mode is literally stalking the fish by varying the boat's speed to make the baits look more natural, and is taking an ACTIVE role in your angling success.** Varying speed makes your presentations more realistic and is THE answer to any troller's worst nightmare - the "Speed Rut". Many anglers steer in "S" patterns to vary speed, but HUNT Mode achieves greater speed variations while doing it automatically and with robotic precision!

There are multiple reasons why the most successful tournament fishermen and top guides insist on iTroll (reliability, innovation, quality, etc.), but the BIGGEST reason is HUNT Mode! **HUNT Mode makes every angler better because IT CATCHES FISH!**

8.1: HUNT Mode Dual Program Memory:
iTroll G2.5 stores SIX individual HUNT programs in internal memory. This allows you to have HUNT programs for different conditions and lure types (example: fishing up or down wind, slow or fast presentations).

Multiple HUNT programs enhances efficiency and convenience by allow you to switch programs instead of reprogramming their behaviors.

8.2: HUNT Mode Dual Cut and Bump Programs:
The G2.5 can run CUT or BUMP programs. These programs have two throttle settings and each throttle has it's own time setting.

In simplistic terms, these are interrupt programs. Your trolling throttle is interrupted at the first time interval (example: every 30 seconds) and then the throttle is cut (to a lower throttle) or bumped (to a higher throttle) where it is held for the second time interval (example: 8 seconds). The pattern then repeats.

8.3: HUNT Mode Dual screens:
The screens that are displayed make it absolutely clear on what HUNT throttle settings are contained in a program, if you are using a cut or bump behavior, and when speed changes will occur.

Trolling throttle & time

Cut throttle & time

Trolling throttle & time

Bump throttle & time

```
25.0% A Cut→18.0%
0:28  ←←1 B  0:08
```

```
25.0% A Cut→18.0%
0:28  ←←1 B  0:08
```

CUT "Timer" Screen Info:
A - This is a cut program
B - Arrows next to address shows
that trolling throttle is active

BUMP "Timer" Screen Info:
A - This is a bump program
B - Arrows next to address shows
that bump throttle is active

8.4: How iTroll automatically determines throttle behavior:
- The throttle with the LONGEST time setting is considered to be the trolling throttle and is always displayed on the left side of the screen. The interrupt throttle is displayed on the right side of the screen. iTroll's software displays "Cut" or "Bump" depending if interrupt throttle is lower or higher than trolling throttle.

Special situations:
1. If the throttle settings have identical time settings, it's made into a bump program with lower throttle first.

2. If the throttle settings are the same, "= =" instead of "Cut" or "Bump" in the display's top line. This program will not change speed as the trolling and interrupt throttles are identical.

8.5: Example CUT Throttle Program (Simulates a wounded bait):

Example: The throttle will behave as follows:
25% for 30 seconds | 18% for 8 seconds | repeat.
Bait behavior in cut programs can be customized by how large / small the cut is and how long the throttle stays cut.

8.6: Example BUMP Throttle Program (Simulates a fleeing bait):

Example: The throttle will behave as follows:
18% for 30 seconds | 25% for 8 seconds | repeat.
Bait behavior in bump programs can be customized by how large / small the bump is and how long the throttle stays bumped.

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

• You can vary your presentation by varying the degree and duration of your cut or bump speeds. Put a bait in the water and try a moderate cut or bump (5%) for 10 - 15 seconds vs. a larger cut or bump (10 - 15%) for 1 - 4 seconds.

Notes on HUNT Mode Programming:
There are two methods in which you can change your HUNT programs.

1. Live throttle method (Recommended if you are fishing) - see Section 9
The throttle is live in this method and responds to changes you make while programming. This gives you instant feedback on to how your boat responds to the throttle changes you are making.

2. Motor at idle (or OFF) method - See Section 10
This method is good for entering programs when your boat is in a dock or on a trailer. Many anglers switch species and have separate programs for each. This method allows you to enter a lot of data in a short period of time.

9.1: **Timer Screen HUNT reprogramming:**
When the timer screen is displayed, the motor is on throttle. For ease of use, the screens shows less detail than the one that appears if a Hunt program is not running (Section 10).

25.0% Cut→18.0%
0:28 ←←1   0:08

Arrows in either position

Active Timers

To Reprogram:

x 2

9.2: **Parameter selection:**
Arrow in a screen = the value that you will be allowed to change if you press the dial.
For clarity, you program the trolling throttle + time or the cut / bump throttle + time.

Turn dial to
scroll screens

Push dial to choose
value to change
Go to Section 9.3

Trolling Screens:

25.0%←-Push Dial
0:30   To Select

Change Throttle 1 (Trolling)

25.0%   Push Dial
0:30 ←-To Select

Change Trolling Time

25.0%
0:30   Start/Exit

Start HUNT Mode

25.0% Switch to
0:30   Throttle 2

Go to Throttle 2 Screen

Right turn of dial

Left turn of dial

Cut / Bump Screens:

Push Dial→18.0%
To Select   0:08

Change Throttle 2 (Cut or Bump)

Push Dial   18.0%
To Select→0:08

Change Cut / Bump Time

              18.0%
Start/Exit 0:08

Start HUNT Mode

Switch to   18.0%
Throttle 1 0:08

Go to Throttle 1 Screen

9.3: **Reprogramming procedure:**

Short press of dial

LONG press of dial
Stores value

Turn dial to
change value

The dial is dual resolution.
A short press changes:
Throttle - 1.0% or 0.1% steps
Time - 1 or 5 second steps

If stored value was a throttle,
resume to Section 9.2.
If stored value was time,
HUNT is resumed.

10.1: Start Screen HUNT reprogramming:

When the start screen is displayed, the motor is at idle. As a result, the reprogramming screen shows more detail than the one that appears if a Hunt program is actually running.

```
25.0%  Cut→18.0%
0:30    #1  0:08
```

— No Arrows —
— No Active Timers —
in Start Screen

To Reprogram:

Press for
3 seconds
Go to
Section 10.2

10.2: "All 4" parameter selection:

Arrow in a screen = the value that you will be changing if you press the dial.

10.3: Reprogramming procedure:

TURN

Turn dial to change value

Right turn of dial

```
25.0%←Push 18.0%
0:30   Dial 0:08
```
Change Trolling Throttle

```
25.0% Push 18.0%
0:30  ←Dial 0:08
```
Change Trolling Time

```
25.0% Push→18.0%
0:30   Dial 0:08
```
Change Cut / Bump Throttle

```
25.0% Push 18.0%
0:30   Dial→0:08
```
Change Cut / Bump Time

```
25.0%      18.0%
0:30 Start 0:08
```
Start HUNT Mode

```
25.0%      18.0%
0:30  Exit 0:08
```
Return to Start Screen

Left turn of dial

Short press of dial

The dial is dual resolution. A short press changes:

Throttle - 1.0% or 0.1% steps

Time - 1 or 5 second steps

LONG press of dial

Stores value

Returns to first screen in Section 10.2

10

Section 11: Hunt Mode Safety Limit

Note: As stated in the safety precautions on page 2, iTroll is intended to be used to achieve low speeds when trolling. To insure this, iTroll has a **safety limit to cap the amount of throttle available in HUNT Mode**. Usually, the factory default limit is sufficient for most anglers. However, it is your responsibility to determine how much throttle is available in HUNT Mode - especially if iTroll is hooked to a main (larger HP) motor, or if you ignore our recommendation that children should not operate the iTroll.

11.1: Hunt Limit:
This sets a ceiling on the maximum throttle value in HUNT Mode.

The default limit from the factory is:
   Hunt Limit = 65% of the Master Throttle Limit
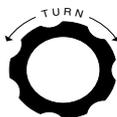To change the limit, go to the "Options Menu" in **Section 12**

Section 12: Options Menu

12.1: To access options menu - Start with iTroll OFF

HUNT FUNC   **Hold for 5 Seconds**

12.2: First level of screens - Turn dial to scroll between menu items

T U R N

1. DRAG Mode On or Off
2. Set Master Throttle Safety Limit
3. Set HUNT Throttle Limit
4. Turn HUNT keypad LED On / Off
5. View unit's configuration menu

Press Dial to select one of the RED items

ON OFF EXIT
Exit options menu, iTroll to OFF

12.3: Selection screen instructions
Turn dial to change a value, then push dial if you wish to store value.

Note: Pressing the On / Off / Exit button will return you to **12.2** (above).

Section 13: Optional Dual Motor Control

13.1: Dual Motor Mode is a software upgrade that is in every iTroll. When dual motor enabled, iTroll can control two motors on the same boat. These motors can be a kicker and a main or a pair of mains on a boat with twin outboards or inboards. Note: Servo motor / linkage installation is required on throttle of second motor to allow iTroll to control it. These parts do require an additional purchase.

If an iTroll is Dual Motor enabled, it has separate Hunt Parameters, servo travel, servo rotation and master throttle limits for EACH motor.

13.2: Selecting which motor iTroll will operate (Dual motor enabled units).
When turned on, G2.5 remembers the last motor it was operating. To change the motor that iTroll operates:

After power on, a screen appears directing you to push the dial to change motors. If you press the dial, a new screen appears that instructs you to turn the dial to select a motor, then to STORE the selection by pressing the dial. iTroll then goes to manual mode controlling the motor that you just selected.

Section 14: Servo IPA (Idle Point Adjustment)

14.1 Idle point adjustment
CAUTION: Never perform this adjustment when the motor is running!
Note: This is usually a ONE TIME adjustment when you initially install your iTroll.
iTroll G2.5 has the ability to adjust the idle position of the servo. This allows you to take up the "slack" in the cable or rod that pulls on your motor's throttle. If you have excessive slack, there will be a dead spot at idle until the servo moves enough to remove the slack. When adjusted properly, at IDLE the throttle should be FULLY closed and have started to open between 1% and 1.5% throttle as indicated on iTroll's screen.

DON'T be overly aggressive with this adjustment. If you have the throttle opening at .5%, there is a chance that when it is hot, parts in the motor may expand and the throttle will not be fully closed at 0% throttle.

14.2 Change idle point
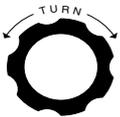1. Turn iTroll ON, wait until you can put the unit into IDLE by pressing

IDLE RUN

2. When unit is at IDLE (see upper left corner of screen):

Hold for 10 Seconds
Release when IPA screen appears

Turn dial to change IPA value.
Values can range from 0% - 10%
in 0.5% steps

PRESS dial to set new idle point.
This is you new servo arm position at 0% throttle

Section 15: Accessing the Digital Padlock

15.1: iTroll's digital padlock allows the unlock codes for protected features and the Dual Motor software upgrade to be entered. There are features that are protected behind the padlock so they cannot be accidently changed. An example of this is servo rotation. If it was accidently reversed, idle would suddenly become full throttle - a dangerous situation.

15.2: To access padlock - Start with iTroll OFF

ON OFF EXIT   ### Hold for 3 Seconds

15.3: Entering values into padlock

Note: Combination numbers range from 0 to 250. When entering them, "88" is entered as "88", NOT as 8 then 8. A combination has <u>four numbers</u>. The padlock shows which of the four numbers you need to enter by displaying "Lock 1, 2, 3, or 4"

15.4: Turn dial so the number on the display matches the first number in the unlock combination you are using. Press dial to store.

15.5: Repeat step 15.4 to enter remaining numbers in the unlock combination.

15.6: If successful in unlocking feature, you will see a confirmation screen or you will be taken to a screen to change a setting in your iTroll. If you see the message "Invalid Combo", repeat 15.4 and 15.5.

Section 16: Features accessed through Digital Padlock

16.1: Dual Motor Software Upgrade: Unlocks the ability to run a second motor. Every iTroll has a unique code. If you would like to purchase the code, call (909) 971-0000.

16.2: Programmable Servo Travel & Rotation

> **Servo travel AND rotation are typically set upon initial installation of iTroll and will NOT need changing unless the iTroll is moved to a different motor.**
>
> Changing servo travel and / or rotation on an existing installation can jam the servo and possibly bend linkage parts because you are changing the starting point and throw of the servo motor.
>
> If you are 100% sure that you want to change an existing installation, remove servo arm from servo so that there is NO connection to the motor when iTroll re-zeros the servo when you turn it on after changing rotation and / or travel.

Combination to access servo rotation and travel menus: 3 - 8 - 33 - 88.
For both settings, turn dial to make selection, press dial to store it.

Note: Previously set (Old) value is shown in upper right corner of screens.

Menu to set servo travel appears first: Menu to set servo rotation appears next:
   S = 90 degrees   L = 135 degrees   FWD   REV

16.3: Neutral Safety Interface Recognition
IMPORTANT: This feature is only for motors with remotely mount T-HANDLE shift and throttle controls that have our <u>optional</u> Neutral Safety Interface installed.
Combination to turn on or off: 5 - 5 - 5 - 5.
After combination is entered, display reads NS = 0 to confirm off, NS = 1 to confirm ON.

16.4: Raise Hunt Limit
IMPORTANT: YOU assume all responsibility for disabling the limit. When limit is disabled, your HUNT limit can be set as high as 80%.
Combination to turn on or off: 10 - 10 - 90 - 64
After combination is entered, display reads HLLHHLen = 0 to confirm off, HLLHHLen = 1 to confirm ON. Reprogram limit value in "Options Menu" - Section 12.

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.

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