# **MANUAL CONTROL**



How Do I . . . Engage High Speed Bypass?

## **High Speed Bypass Operation**

### **Engage**

Pressing will set the motor speed to maximum immediately.

### Disengage

Pressing again will set the motor speed to the value it was at previously.

\*Note: **High Speed Bypass** does not enable or disable the prop.

How Do I . . . Turn LCD Backlighting On?

### **LCD** Backlight Button

To turn on LCD backlighting press .



The backlight will turn off eight seconds after the last button press to conserve battery power.



# UNDERSTANDING HOW THE I-PILOT SYSTEM WORKS

### **Navigation**

i-Pilot uses GPS satellite signals as well as digital compass data to know where it is, where it is heading and the direction the motor is pointing. Since i-Pilot depends on GPS satellite signals for navigation, a minimum GPS signal level of one bar is required in order for GPS navigation controls to be enabled. Best results are achieved when a GPS signal level of four bars can be obtained.

In simple terms, i-Pilot remembers and creates points to navigate your boat automatically. i-Pilot also uses a method of GPS navigation called arrival circles. These imaginary circles allow i-Pilot to understand when it has drifted away from a point and when it has arrived at a point. The size of the arrival circles vary depending on GPS signal strength, thus the greater the signal strength the smaller the arrival circles.

#### **Tracks**

Tracks are made of many points that i-Pilot records when recording a track. The distance between these points varies based on GPS signal strength and the speed at which you record the track. When a track is played back, i-Pilot uses the track points and arrival circles to navigate the track.

# **GPS MOTOR CONTROL**



### Memory

i-Pilot has the capability of storing up to three individual tracks (each two miles in length) and three individual **Spot Lock** locations. These locations are stored in memory even when power is removed from the system. **Spot Lock** and **Track** memory locations are separate from each other and they cannot over write each other. Memory locations are identified on the

remote LCD with an icon shown as A, B or C. When the memory icon is flashing, a different location can be selected by pressing or .



# HOW SPOT LOCK WORKS

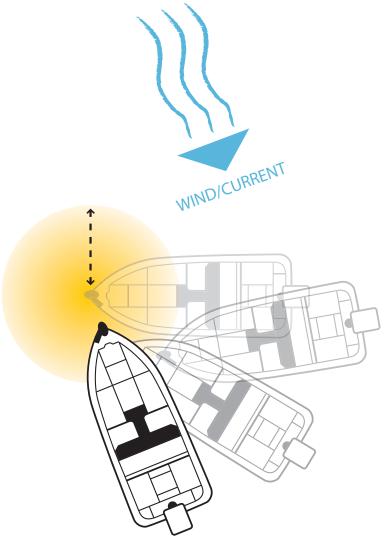


# **Spot Lock**

Spot Lock uses a single point as a reference for the spot you want to stay on. This point is recorded and stored into one of the three memory locations when the Spot Lock button is pushed. Around the Spot Lock location i-Pilot uses an arrival circle to determine prop speed and direction. If i-Pilot sees it is within the circle, it will adjust the motor speed to zero. If i-Pilot sees it is outside of the circle, it will control motor speed in an attempt to get the boat back into the circle.

# SPOT LOCK







# ENGAGING SPOT LOCK

- **1.** Press on the remote.
- 2. The Memory Location icon will flash on the remote LCD for three seconds, allowing you to choose a memory location by pressing or . Pressing again or waiting for three seconds accepts the memory location.



## DISENGAGING SPOT LOCK

**1.** To disengage **Spot Lock** press any of these buttons:















# SPOT LOCK



# ► RE-ENGAGE A SAVED SPOT LOCK LOCATION

- **1.** Manually navigate the boat to within a quarter mile of the saved **Spot Lock** location. Due to safety reasons, i-Pilot will not re-engage a saved **Spot Lock** location greater than a quarter mile away.
- 2 Press on the remote.
- **3.** The Memory Location icon will flash on the remote LCD for three seconds allowing you to choose a memory location by pressing or Pressing again or waiting for three seconds accepts the memory location.



# SPOT LOCK ESCAPE

**1.** If the **Spot Lock** button is accidentally hit, press or any manual navigation button within three seconds to cancel the command.

## **Using Spot Lock with Other i-Pilot Functions**

Since **Spot Lock** takes over full control of the motor, it cannot be used in combination with other i-Pilot functions.



The momentary button on the foot pedal will not function when Spot Lock or Spot Lock Recall is engaged.

# HOW CRUISE CONTROL WORKS



## **Cruise Control**

(Advanced Functionality) i-Pilot automatically controls the motor speed to maintain a constant GPS speed.

# **CRUISE CONTROL**



# ENGAGING CRUISE CONTROL

- **1.** Press on the remote.
- **2.** The current GPS speed will flash, displaying your current speed as the target GPS speed on the remote LCD for three seconds.



**3.** Press or to increase or decrease the target speed or press again to engage **Cruise Control** immediately.

## DISENGAGE CRUISE CONTROL

**1.** Pressing will disengage Cruise Control.

# ADJUSTING TARGET SPEED WITH CRUISE CONTROL ENGAGED

**1.** With **Cruise Control** engaged press or to adjust the target speed by 0.1 MPH increments.

# Using Cruise Control with Other i-Pilot Functions

**Cruise Control** can be used in combination with **Advanced AutoPilot**, **AutoPilot**, **Track Recording**, and **Track Playback**.

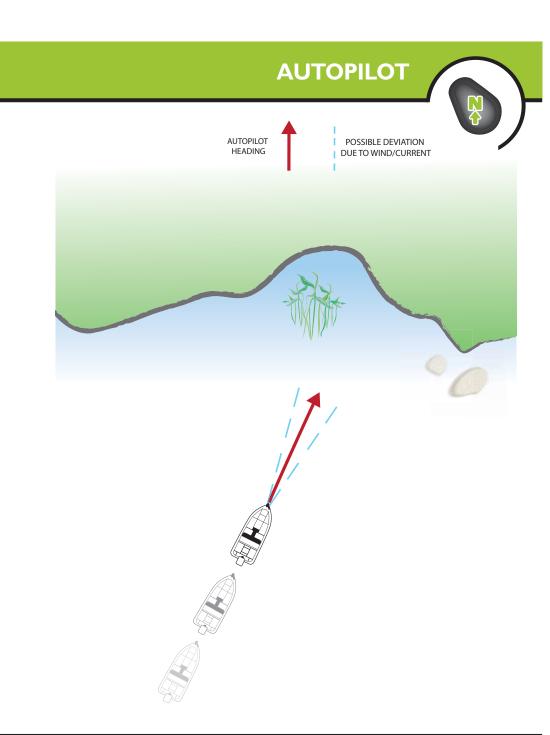
# HOW AUTOPILOT WORKS



Two different versions of **AutoPilot** are available **Advanced AutoPilot** and **AutoPilot**. There are distinct differences between the two **AutoPilots** and how they control your boat.

### **AutoPilot**

AutoPilot uses an internal compass to provide heading lock. When AutoPilot is on, it keeps the motor pointed in the same compass direction. If a manual steering correction is made, AutoPilot locks onto the new compass heading to which the boat was steered. This method of heading tracking does not take into account external forces such as a side wind or currents, which can allow side drift.

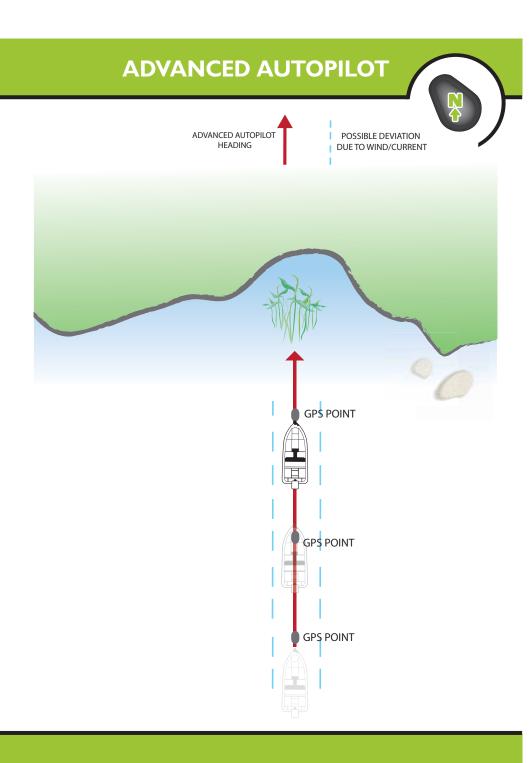


# HOW ADVANCED AUTOPILOT WORKS



### **Advanced AutoPilot**

Advanced AutoPilot not only uses compass heading but also GPS signal data to correct for cross winds, current and other external forces to keep the boat on a straight line. When Advanced AutoPilot is turned on, it generates a set of GPS points in a straight track line in the heading direction. i-Pilot now navigates to each individual point on this track line. When the user steers to a new heading, a new track line of GPS points are laid down in the new heading direction.





# ENGAGING ADVANCED AUTOPILOT AND AUTOPILOT

- **1.** To engage **Advanced AutoPilot**, press once. To engage **AutoPilot**, press and hold of for two seconds.
- **2.** The **Advanced AutoPilot** or **AutoPilot** icon will be displayed on the remote LCD.
- **3.** To adjust desired heading, manually steer motor to new heading. i-Pilot will lock onto new heading.

# Using Advanced AutoPilot and AutoPilot with Other i-Pilot Functions

**Advanced AutoPilot** and **AutoPilot** can be used in combination with **Cruise Control** and while recording a track.



Advanced AutoPilot



AutoPilot

# **ADVANCED AUTOPILOT/AUTOPILOT**

### Which AutoPilot Do I Use and When?

With all the external variables, this question can be difficult to answer. Both **AutoPilots** have their benefits based on the type of fishing and bait presentation desired.

**Advanced AutoPilot** will keep the boat on a true straight path in most conditions. When very extreme conditions exists such as very strong winds or current, the trolling motor may not have enough power to control the boat smoothly. In these extreme cases it may be best to use **AutoPilot** and let the boat move with the wind or current if the motor is not powerful enough to overcome it.

**AutoPilot** helps you maintain a constant heading but does not compensate for wind or currents.

Both **Advanced AutoPilot** and **AutoPilot** are valuable tools the fisherman can use for accurate and precise bait presentation. We highly recommend getting on the water and trying both **Advanced AutoPilot** and **AutoPilot** in various fishing situations and applications. With experimentation and time you will find which **AutoPilot** works best for you in a given situation.



# HOW TRACK RECORDING AND PLAYBACK WORK

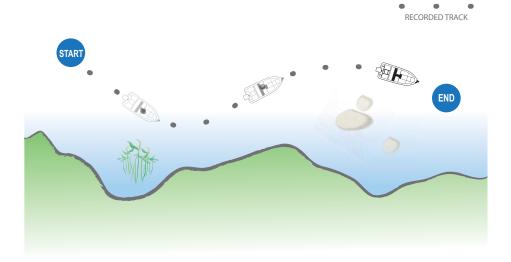


### **Track Recording and Playback**

When the Track Record button is pressed, i-Pilot starts to record GPS position data in the form of track points. The distance between these points varies based on the speed of the boat and the GPS signal strength. The very first track point recorded is called the start. The last point recorded is called the end. i-Pilot sees a recorded track as a series of these track points. When a Track to Start or Track to End button is pushed, i-Pilot will navigate to the nearest track point. Once this nearest track point is reached, it will then follow the track points in sequence back to either the start or end based on which button was pressed. Once the end or start track point is reached, i-Pilot automatically exits from the **Track** to Start or Track to End function. During track playback, i-Pilot takes control over all steering functions; speed can be manually controlled or the Cruise Control function can also

# TRACK RECORDING / PLAYBACK





be used. The motor speed must be set high enough in order to stay on the track given wind, current and other external forces.

i-Pilot can also pause the recording of a track. When the recording is paused, i-Pilot temporarily stops recording any new track points. When track recording is resumed, i-Pilot records new track points. Due to the nature of pausing a recording, there may be a large separation distance between two track points or two track points lying on top of one another where the pause occurred. This can cause erratic motor steering therefore it is very important to know where the pause button was pressed and to resume the recording just ahead of that location. If while paused, the separation distance exceeds a quarter mile, the recording will automatically stop.



### RECORDING A TRACK

- **1.** Press on the remote.
- 2. The Memory Location icon will flash on the remote LCD for three seconds, allowing you to choose a memory location by pressing or Pressing again or waiting for three seconds accepts the memory location.
- **3.** The REC icon will be displayed on the remote LCD. Remember this will be the start point on the track.



- Navigate the boat along the desired path or course. AutoPilot and/or Cruise
  Control can be used while recording a track.
- **5.** Press on the remote again to stop the recording. The recording will end automatically if the two-mile distance limit is reached for the track or if one of the following buttons are pressed:

# TRACK RECORDING / PLAYBACK



# **▶ PAUSE AND RESUME A RECORDING**

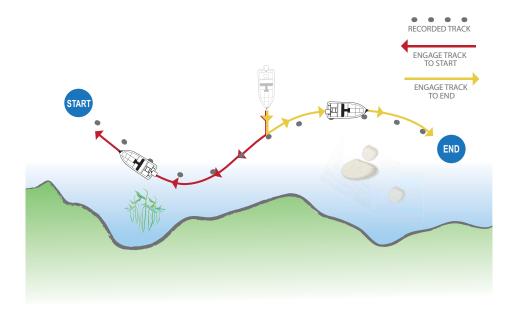
- **1.** While recording a track press ......
- **2.** The record icon will flash on the remote LCD.
- **3.** i-Pilot has now paused the recording of the track.



- **4.** If the boat moves farther than a quarter mile from where was pressed, the recorded track will be ended and saved to the memory location previously selected.
- **5.** When ready to resume recording, navigate the boat just ahead of where was pushed. Failure to do this may cause erratic play back of a track.
- **7.** The record icon will stop flashing on the remote LCD.
- **8.** i-Pilot is now recording again and adding to the track that was paused.



# MUND MOTE.





# TRACK RECORDING / PLAYBACK



# REPLAYING A TRACK (TRACK TO START / TRACK TO END)

- **1.** Manually navigate the boat to within a quarter mile of the saved track. Due to safety reasons, i-Pilot will not re-engage a saved track greater than a quarter mile away.
- 2. Press or on the remote.
- 3. The Memory Location icon will flash on the remote LCD for three seconds, allowing you to choose a memory location by pressing or Pressing the button pressed in step 2 again or waiting for three seconds accepts the memory location.



- **4.** Adjust motor speed to desired setting to engage and navigate track automatically.
- RECORD, TRACK TO END AND TRACK TO START ESCAPE
  - 1. If or is accidentally hit, press within three seconds on the remote to cancel the command.





# FREQUENTLY ASKED QUESTIONS

# Q. Does i-Pilot record the speed I am traveling when recording a track?

A. No. i-Pilot only records its location during track record. It is up to the user to set the desired speed manually or with **Cruise Control**.

# Q. Why doesn't my GPS Signal Strength icon always show all four bars?

A. GPS signal strength is impacted by many influences including: i-Pilot controller having a clear view of the sky (especially to the southern sky), boat being located alongside a high bank and your geographic location.

#### Q. Is i-Pilot compatible with CoPilot?

A. No. None of the components between the two systems are compatible with each other.

#### Q. Does the remote float?

A. Yes.

# Q. When I turn on the remote, the Low Battery Indicator comes on along with all the other icons, is my battery low?

A. Not necessarily. When the remote first powers up, all of the icons come on automatically for a short period of time. This gives the user the opportunity to view all of the icons.

### Q. How long of a track can I record?

A. Each individual track location (A, B or C) can be up to two miles in length.

### Q. Can I use multiple remotes with my i-Pilot?

A. Yes, you can use an unlimited number of remotes simultaneously. Remember to learn each new remote to the i-Pilot controller.

# Q. Why does the LCD screen of the remote have dark blotches on it when I wear my sunglasses?

A. Polarized sunglasses can dramatically affect the way an LCD looks to the human eye.

# Q. Can I control how fast i-Pilot takes me back to a Spot Lock location when using Spot Lock Recall?

A. No, **Spot Lock** and **Spot Lock Recall** are fully automatic functions that take full control of motor steering and speed.

#### Q. Where can I purchase additional remotes?

A. Your local Minn Kota retailer should carry additional remotes.

#### Q. If I turn off the remote, will i-Pilot continue to operate?

A. Yes. The i-Pilot Controller will continue in its current state of operation until the user makes a change either with the remote or foot pedal (Terrova only).

### Q. Where are the three tracks and Spot Lock locations stored?

A. In the i-Pilot Controller.



# **TROUBLESHOOTING**

### **General Troubleshooting**

**Problem:** The motor is making erratic steering corrections while in

AutoPilot, Spot Lock or Track to Start/End.

Solution: Be sure to keep all ferrous metallic objects away from the i-Pilot

controller as they will have an impact on the built-in compass.

Such objects include: anchors, metal framework, etc.

Problem: When a button on the remote is pressed the motor doesn't

always respond.

Solutions: Check if the low battery indicator is on. If so, replace the

remote's battery. Check for large obstructions between the

remote and the motor.

Problem: I press a button on the remote and nothing happens.

Solution: Could be a dead battery in the remote. If the battery was just

replaced, open the remote case and verify that all the

internal components were properly reinstalled.

Problem: I press a button on the remote and all the icons come on for

a few seconds then it shuts off.

Solutions: Verify that the motor is powered up (for Terrova and Riptide ST,

> it must also have its system ready light on). Go through the learn process for the remote (see page 33 for the procedure).

Problem: i-Pilot won't let me turn on certain features like: Advanced

AutoPilot, Record, Track to Start/End or Spot Lock.

Solution: Verify that the GPS Signal Strength icon on the LCD shows at

least one bar. If there are no bars, i-Pilot will not allow these

GPS-based features to be enabled.

**Problem:** The remote LCD backlighting will not come on.

Solution: Check if the low battery indicator icon is on. Backlighting

is disabled when a low battery level is detected. Replace

the battery.

Solution: The **Backlight** will not come on if the remote is not currently

communicating with the i-Pilot Controller.

# **Spot Lock**

Problem: The boat doesn't seem to keep close enough to the recorded

**Spot Lock location.** 

Solution: Verify the trolling motor batteries are sufficiently charged

Solution: Check for weeds on the prop.

Solution: In more extreme wind and current conditions, the boat will tend

to stabilize a little ways down wind from the intended location. Relock the location the same distance upwind and expect that the

boat will drift some in the downwind direction.

#### **Cruise Control**

Problem: The GPS speed displayed on the remote is different than

what my other GPS system shows.

Solution: If you are using **Cruise Control** with **Advanced AutoPilot** or

**Track to Start/End,** i-Pilot calculates the actual speed in the intended direction of travel which may differ from your

GPS reported speed.

Problem: Cruise Control isn't holding the target speed close enough.

Solution: Verify the trolling motor batteries are sufficiently charged.



### **AutoPilot**

Problem: When in Advanced AutoPilot in strong winds, there is quite a

bit of back and forth movement in the boat.

Solution: While **Advanced AutoPilot** will keep your boat on a true

heading, it may be at the expense of the boat having to continuously move to get back on the correct course. In these extreme conditions you may be better off using **AutoPilot** and

correcting for the wind manually.

Problem: I press and release the Advanced AutoPilot button and the

system goes into AutoPilot instead of Advanced AutoPilot.

Solution: If the GPS Signal Strength indicator shows no bars, then pressing

and releasing the **AutoPilot** button will enable **AutoPilot** automatically instead of requiring that the button be held for

two to three seconds like when GPS is present.

### **Track Record and Playback**

Problem: While in Track to Start/End the propeller suddenly stopped.

Solution: Verify you did not accidentally enable another automatic feature

such as AutoPilot or Spot Lock.

Solution: When the end (or start) of the track is achieved during playback,

i-Pilot will automatically turn off the motor along with canceling

Track to Start/End.

Problem: While in Record mode, the recording suddenly stopped.

Solution: You may have reached the two mile limit for recording a track.

## Terrova/Riptide ST:

Problem: Pressing a button on the remote causes all the icons to come

on for a few seconds then they all go off.

Solution: Ensure the motor is deployed and that the System Ready light

on the motor is illuminated.

Solution: Verify that the i-Pilot controller is properly plugged in.

Solution: Try to relearn the remote to the controller.

Solution: Cycle power to the motor by stowing and deploying the motor

verifying that the System Ready light comes back on when the

motor is deployed

### PowerDrive V2 /Riptide SP:

Problem: Pressing a button on the remote causes all the icons to come

on for a few seconds then they all go off.

Solution: Verify that the i-Pilot controller is properly plugged into the

footpedal connector on the motor.

Solution: Try to relearn the remote to the controller.

Solution: Cycle power to the motor.

Problem: Steering does not work properly or at all.

Solution: Verify that the steering wires from the i-Pilot cable are properly

connected directly to the two-wire cable coming from the

steering housing.



## **GLOSSARY**

**Accessory Connector:** The accessory connector is a small sealed connector used on the Terrova and Riptide ST family of motors. This connector allows for easy waterproof installation of any Minn Kota Terrova and Riptide ST accessories.

**Center Housing:** A plastic center housing exists in the center of the trolling motor mount. This center housing covers and protects mechanical and electrical components from the environment. The center housing is temporarily removed from PowerDrive V2 and Riptide SP motors during i-Pilot installation.

**CoPilot:** Co-Pilot a wireless motor control accessory from Minn Kota available for all Terrova, PowerDrive V2, Riptide ST and Riptide SP lines of motors. The accessory allows for wireless adjustment of all basic motor control functions. The Co-Pilot accessory must be removed from a PowerDrive V2 and Riptide SP motor upon i-Pilot installation. Any Co-Pilot accessory installed on a Terrova or Riptide ST motor is electrically disabled once i-Pilot is installed.

**Control Box Cover:** The control box cover is a plastic cover installed on the top head of the motor. The cover protects the inner wiring and electronics from the environment. This part is replaced by the i-Pilot controller.

**GPS:** GPS is an acronym for Global Positioning System. GPS provides accurate position (latitude, longitude, altitude) information virtually anywhere on the earth through satellite technology and personal receivers on the ground. A series of geosynchronous satellites broadcast a unique signal toward the earth once per second. A GPS receiver, which is used in i-Pilot, receives the signals from these satellites and is able to determine position based on very slight differences in the time each signal is received and the receiver's knowledge of the location of each of the satellites.

**GPS Speed:** The speed calculated by measuring the boat's change in geographical location over a given time using GPS data.

**i-Pilot Controller:** The i-Pilot controller is part of the i-Pilot system. The controller contains a GPS receiver, compass and electronics to automatically navigate the trolling motor. The controller resembles a motor control box

cover and is completely sealed and waterproof. The controller replaces the existing control box cover and **AutoPilot** controller if one is present.

**i-Pilot Controller Cable:** On PowerDrive V2 and Riptide SP versions of i-Pilot, a cable exists on the bottom side of the i-Pilot controller. This cable is designed to connect to the foot pedal input cable at the base of the motor for a waterproof connection.

**i-Pilot Controller Connector:** On the Terrova and Riptide ST versions of i-Pilot, a connector exists on the bottom side of the i-Pilot controller. This connecter is designed to connect to the accessories connector for an easy waterproof connection.

**Motor Speed:** The speed that the prop is rotating from 0 to 10, which is adjustable in  $\frac{1}{2}$  increments.

**PowerDrive V2:** The PowerDrive V2 is in the latest family of bow-mount, electric-steer trolling motors from Minn Kota. The motor can be identified by the PowerDrive V2 name on the side of the trolling motor mount.

**Riptide SP:** The Riptide SP is in the latest family of saltwater bow-mount, electric-steer trolling motors from Minn Kota. The motor can be identified by the Riptide SP name on the side of the trolling motor mount.

**Riptide ST:** The Riptide ST is in the latest family of saltwater bow-mount, electric-steer trolling motors from Minn Kota. The motor can be identified by the Riptide ST name on the side of the trolling motor mount.

**Side Plates:** Side plates exists on each side of the trolling motor mount. These side plates cover and protect mechanical and electrical components from the environment. The side plates are temporarily removed from PowerDrive V2 and Riptide SP motors during i-Pilot installation.

**Terrova:** The Terrova is in the latest family of bow-mount, electric-steer trolling motors from Minn Kota. The motor can be identified by the Terrova name on the side of the trolling motor mount.

**Track End:** The last point on a recorded track, which is made when **Track Recording** was ended.

**Track Start**: The first point on a recorded track, which is made when the **Track Record** button is pressed to start a recording.

# COMPLIANCE STATEMENTS



#### **ENVIRONMENTAL COMPLIANCE STATEMENT:**

It is the intention of Johnson Outdoors 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 and 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 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.

#### FEATURES CAR ACTÉRISTIQUES

#### DÉCLARATION DE CONFORMITÉ ENVIRONNEMENTALE :

Johnson Outdoors Inc. a l'intention d'être une corporation responsable, fonctionnant en conformité avec les règlements environnementaux connus et applicables, et d'agir en tant que bon voisin dans les communautés où nous fabriquons ou vendons nos produits.

#### **Directive WEEE:**

La Directive 2002/96/EC de l'Union européenne traitant des déchets d'équipement électriques et électroniques, soit "Waste of Electrical and Electronic Equipment (WEEE)", affecte la plupart des distributeurs, vendeurs et fabriquants de produits électroniques dans l'Union européenne. La directive WEEE demande que le fabriquant de produits électroniques se charge de la gérance des déchets provenant de leurs produits afin de s'en débarrasser d'une manière responsable par rapport à l'environnement au cours du cycle de vie du produit. Respecter la directive WEEE peut ne pas être exigé où vous vous trouvez en ce qui concerne l'équipement électrique et électronique (EEE), comme ne pas être exigé pour l'équipement électrique et électronique conçu et destiné à des installations temporaires ou permanentes dans les véhicules de transport comme les automobiles, avions et bateaux. Dans quelques pays membres de l'Union

Applicant: Johnson Outdoors, Inc.

Model Number	Description
2994085	I PILOT REMOTE
1866200	I PILOT SYSTEM, TERROVA
1866205	I PILOT SYSTEM, ST
1866210	I PILOT SYSTEM, PD V2
1866215	I PILOT SYSTEM, SP

FCC ID:

Remote T62-IPREM Controller T62-IPCON

Industry Canada ID: Remote 4397A-IPREM Controller 4397A-IPCON

#### FCC Compliance Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### HALF THE CHARGE TIME AT HALF THE WEIGHT.

When batteries fail, most anglers blame overuse. But improper charging causes battery failure more than any other factor. Our all-new high-frequency, digital microprocessor design is more compact, up to 50% lighter, and engineered to extend battery life and deliver up to 50% faster charging time. You invest a lot in your batteries: time, money and the opportunity to catch more fish. Protect that investment with our all-new line of Precision Chargers.



#### MK 440PC NOT SHOWN

#### **NEW PRECISION CHARGE ON-BOARD CHARGERS.**

All Minn Kota Precision Chargers feature:

- High-frequency, digital microprocessor design charges up to 50% faster than other chargers
- Low-line voltage compensation, automatic temperature compensation and multi-stage charging to deliver the perfect charge
- On demand battery equalization to prevent sulfation build up on plates and extend battery life



#### COMPOSITE QUICK RELEASE BRACKETS (MKA-21, MKA-23, RTA-17, RTA-19)

Allows for easy removal of any Terrova, PowerDrive V2, PowerDrive or Pontoon HC (MKA-21); Maxxum, Maxxum Pro, All Terrain or Edge (MKA-23); Riptide ST or Riptide SP (RTA-17); or Riptide SM or Riptide SE (RTA-19) bow-mount motor. High-yield composite construction is super strong and impervious to corrosion. Low-profile design leaves deck clear when motor is removed. Locking handle with stainless steel pins can be secured with padlock (not included).

# ELECTRIC STEER QUICK RELEASE BRACKET WITH COVER (MKA-32)

Designed for fast removal of any Terrova, PowerDrive V2 or PowerDrive bow-mount trolling motor. New cam-lock design features ultra-tight tolerances that eliminate bracket movement and noise. Locking lever includes pin and lanyard. Upper and lower plates include slot for securing with padlock (not included). Includes composite cover that attaches to lower half of bracket when motor is removed, keeping the deck profile clean.

NOTES		

NOTES

