User's Guide

ICON 3.5C Display







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SAFETY INFORMATION

This user's guide may contain the following safety messages:

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

A WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury

▲ CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

NOTICE

Indicates an instruction which, if not followed, could severely damage engine components or other property.

This user's guide contains information to prevent personal injury and damage to equipment. Use this guide in combination with the boat and outboard operator's guides. Always follow safety and operation information.

PRODUCT INFORMATION

The *Evinrude*[®] *ICON 3.5C* Display is designed for use with *Evinrude E-TEC*[®] *G2* V6 outboards. The display communicates with the outboard, remote control(s), and other network connected devices, by means of a *NMEA 2000*[®] compliant network.

The display handles standard *NMEA 2000* messages and proprietary messages. The display controls a number of helm functions and options. Some options and/or modes of operation are not possible to access without this display present in the system. Select outboard sensor calibrations and functions are also accessible through the display.

The display incorporates a 3.5 in. (90 mm) color screen.



216762-02

FEATURES

Supports single outboard applications

320 x 240 Quarter-Video Graphics Array (QVGA) display resolution

Viewable with polarized sunglasses

Bright illumination - 750 Nit (750 cd/m²)

Firmware update capability via USB interface

Integrates with Evinrude ICON II remote controls and Evinrude E-TEC G2 V6 outboards

NMEA 2000 network interface

Preconfigured user selectable screens

Descriptive text for fault codes and procedures

Multi-language support

System Functions

The display provides a number of user selectable modes and configuration menus. Select modes affect unit selection and screen appearance. Other modes interact with and affect remote control and outboard operation and functionality.

This display interacts with system components including one Evinrude E-TEC G2 outboard, up to two remote controls, and devices on a *NMEA 2000* network.

Display Mode Functions

- Calibration
 - •Trim upper and lower limits
 - •Tilt maximum level
 - •Fluid tank type, volume, and level up to four
 - •Fuel ECO (Economy) period
 - •Fuel ECO reset
- Backlight control

Display Mode Selections

Unit Selection

•U.S. (this is the default choice when the gauge is initially powered on) •Metric

- Imperial
- Language Selection
 - •English EN
 - •French FR
 - •Spanish ES
 - •Italian IT
 - •German DE

Unit Selection

U.S.	Metric	Imperial
Degrees Fahrenheit	Degrees Celsius	Degrees Celsius
Feet (depth)	meters	Feet
Gallons per Hour	Liters per hour	Imperial gallons per hour
Miles per Gallon	Liters per 100 Kilometers	Miles per Imperial gallon
Miles per Hour	Kilometers per Hour	Miles per Hour
percent	percent	percent
Pounds per Square Inch	kilospascals	Pounds per Square Inch
Revolutions per Minute	Revolutions per Minute	Revolutions per Minute
Volts	Volts	Volts
Miles	Kilometers	Miles
Month, Day, Year	Day, Month, Year	Day, Month, Year

Display Parameters

The display supports the following data:

System Faults	Language Selection • English - French - Spanish - German - Italian
RPM	Throttle Lever Position
Fuel Flow	Operating Hours
Water Pressure	Low Oil Warning
Battery Voltage	Fuel Economy
Cooling Water Temperature	Mode Selection Trim Assist Power Steering Assist
Trim Position	Winterization
Oil Level From outboard mounted oil tank From vessel mounted oil tank 	Hand/Foot Throttle Command Source
Fluid Levels - Four inputs 2X oil, 2X fuel Sourced from remote control inputs 	Settings Trim Sender Calibration Tilt Limit Calibration Fluid Level Configuration and Calibration
Speed Over Ground	Backlight Control Display Selected Remote Control Selected
Unit Selection US - Metric - Imperial	Audible Alarms

SYSTEM INFORMATION

System Faults

System faults are generated by the outboard, the remote control, and a mechanical control module (if equipped).

When an active or current fault is broadcast on the NMEA 2000 network, the display will:

1) Show the active fault.



2) Activate an Engine Status indicator. (Check Engine, Temperature, Oil, or Battery).



3) Initiate a pop-up warning with the fault information displayed and activate an engine status indicator. The pop-up color will be orange or red.

An orange-colored Pop Up WILL NOT activate the warning horn. A red-colored pop-up WILL activate the warning horn.



(orange-no horn)

A pop-up warning and audible warning, or both, will remain in effect until acknowledged by the operator. If a fault is active, it will be displayed in Active Faults information on the Engine 2 page.

TURNING THE DISPLAY ON

Turn the key switch to the ON position or start the outboard to turn the display ON.

Problem	Solution
Display does not power ON.	Charge the network power supply battery to a mini- mum of 12.5V. Disconnect wiring harness from back of gauge, and then securely reconnect it.
	Display does not power

USING THE DISPLAY

Press a button to once to access its first screen, press the same button again to access its second screen.



NOTE: The Mode button only accesses a single screen.

DISPLAY SCREENS

Home 1

Press the Home button once to access the Home 1 screen. The data shown is:

- Speed Over Ground requires GPS antenna input, use BRP P/N 765349
- Trim Position
- RPM
- Engine Status Icons Check Engine, Temperature, Oil, Battery
- Gear Position FORWARD (F), NEUTRAL (N), REVERSE (R)
- Port and Starboard Fuel Tank Levels



Trim Position	Problem	Solution
Troubleshooting Tip	Trim position is not accurate.	Verify the trim calibration settings.

Home 2

Press the Home button a second time to access the Home 2 screen. The data shown is:

- Speed Over Ground
- Trim Position
- RPM
- Water Pressure requires 0-50 psi pressure input transducer, use BRP P/N 5008640



	Problem	Solution
Water Pressure Troubleshooting Tip	Water pressure does not dis- play or is not accurate.	Verify the water pressure transducer selection; use Evinrude Diagnostic soft- ware (see your dealer).

Boat 1

Press the Boat button to access the Boat 1 screen. The data shown is Fluid Levels. The maximum configuration is four tanks - two fuel, one on-engine oil, and one vessel-mounted oil. **NOTE:** The oil level reading is not available when the outboard is in the tilt range



	Problem	Solution
Fuel and Oil Level Troubleshooting Tip	Fuel and oil level does not dis- play or is not accurate.	Reset the configuration of the fluid input source.
		Reset the multi-point level calibration for each fluid tank.

Boat 2

Press the Boat button a second time to access the Boat 2 screen. This screen provides operating data for the fuel economy of the vessel. The data shown is:

- Trim
- Throttle Position
- Fuel Consumption*
- Fuel Economy*
- Speed Over Ground*
- Range* uses sum of fuel tank levels and average fuel economy value
- Fuel Remaining sum of all fuel tanks
- RPM
- ECO Bar Graph instantaneous fuel economy figure with marker for long term economy

*Requires GPS antenna input, use BRP P/N 765349.



	Problem	Solution
Fuel Economy Troubleshooting Tip	Fuel economy data does not display or is not accurate	Verify that GPS speed input data is available.
		Verify fuel tank level cali- bration and capacity setting.

Engine 1

Press the Engine button to access the Engine1 screen. The data shown is:

- RPM
- Temperature
- Fuel Consumption
- Battery Voltage
- Hours
- Water Pressure
- Throttle Position based on remote control throttle lever position
- Trim Position
- Engine Onboard Oil Level level will vary when the outboard is in the trim range



	Problem	Solution
Troubleshooting Tip	Oil level does not display or is not accurate.	Trim to the full down posi- tion before checking oil level.

Engine 2

Press the Engine button a second time to access the Engine 2 screen. This screen shows currently active faults and corrective action recommendations.



MODE SELECTION

Press the Mode Select button to access the Mode Select screen. The following table describes the Mode Select functions:

Function	Settings/Options	Note
Throttle Select	Hand, Foot	The "Foot" option will only appear on the Mode Select screen if a foot throttle is installed in the system
Trim Assist (<i>i-Trim</i>)	On, Off	Factory set to Off
Winterize	Initiate	Use for long term storage
Power Steering Assist	Minimum, Medium, Maxi- mum	Factory set to "Minimum" Only available on <i>Evinrude</i> <i>E-TEC G2</i> outboards with Dynamic Power Steering (DPS)

Throttle Source

The "Hand" throttle selection is shown. Press the right arrow button to toggle the selection between "Hand" and "Foot".



Trim Assist

Select the trim assist option. Press the right arrow button to toggle the selection between On and Off.



Winterization

Select the winterization option. Press the right arrow button to start the Winterization process. Follow the on-screen prompts to complete winterizing of the outboard.



Power Steering

Select the power steering option. Press the right arrow button to toggle the selection between On and Off.



Backlight

Use this screen to adjust the backlight in 10% increments from 10% to 100%. Backlight level remains in memory when the display is shut OFF.



SETTINGS

Use this screen to set configuration and calibration options, restore the display to factory default settings, and to view firmware information.

Press and hold the Backlight button to access the Settings screen.



Configuration

Select the Configuration option from the Settings screen to set Language, Units, and Key Beep options.

Language

Select the display language in English (default selection), French, Spanish, Italian, or German.



Units

Select units in U.S. (default selection), Metric, or Imperial.

Configuratio	n	Units
Language		U.S.
Units		Metric
Кеу Веер	On	Imperial
	→ ←	
		216762-17

Key Beep

Turn the key beep ON or OFF.



Calibration

Use the Calibration screen to set calibration options for fluid tanks, trim, tilt, and fuel economy.



Fluid Tanks

Select the Fluid Tanks option to set calibration levels (2, 3, or 5 point), fluid types, and tank volumes. The fluid tank input source(s) (three maximum) are connected to the remote control wiring harness.

NOTE: Screen shots display from left to right.



Trim

Select the Trim option, then follow the on-screen prompts to set the lower and upper trim range limits.



Tilt

Select the Tilt option, then follow the on-screen prompts to set or clear the maximum tilt range limit.



Economy

Use to set the "sample fuel economy time interval" and to reset the economy average value.



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Restore Defaults

Use this screen to restore the display to factory default settings.

Settings	Restore Defaults
Configuration	
Calibration	Restore Default Settings?
Restore Defaults	Rostore Derdalt Cottingo:
Firmware Info	
^ ↓ ↓ → ←	•
Restore Defaults	
Default Settings Restored	
0	246762.24

Firmware Information

Use this screen to view the current firmware information for the display.

Firmware Info	
SOFTWARE VERSION: 0.24	
PART NUMBER: 767748	
SERIAL NUMBER: 1193046	
SDK VERSION: 2.10	
OS VERSION: B11-K22-RF33	
I/O VERSION: M55-B66	
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Pop-Up Warnings

Low Oil and Fault Code warnings will pop-up and overlay on any currently displayed page:

INSTALLATION

Verify that the following components are in the package:

- ICON 3.5C Display
- Harness Assembly (1X) BRP P/N 767749
- Warning Horn Assembly (1X) BRP P/N 176360
- T-Connector (1X) BRP P/N 764151
- Y-Harness (1X) BRP P/N 587230
- User's Guide BRP P/N 216762

Mounting

1) Identify the mounting location. Allow a minimum of 6.0 in. (152.4 mm) behind the mounting surface for harness connection and routing.

- 2) Use the mounting template. Cut/drill the openings to the specified dimensions.
- 3) Place the display in the opening so the bezel is flush with the dashboard.
- 4) Use the plastic spin nuts to secure the display. Tighten the nuts securely.

PORT IDENTIFICATION

NOTE: The USB port is used for firmware updates - see your dealer.

HARNESS WIRING DETAIL



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MOUNTING TEMPLATE



SKI-DO0°SEA-DO0°CAN-AM°LYNX°EVINRUDE°ROTAX°



www.brp.com