

EVINRUDE E-TEC

# Rigging Essentials



**EVINRUDE**  
E-TEC



# EVINRUDE E-TEC Rigging Essentials

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# FOOT THROTTLES EVINRUDE® E-TEC® G2™



## FOOT THROTTLES

Take your high performance boating experience to a new level of control.

Evinrude E-TEC G2 supports an accessory foot throttle which you can switch between foot and hand operation. Using the Evinrude ICON color displays, drivers can easily toggle between hand and foot throttle control.

The foot throttle interface comes in two variations to take advantage of the footwell design of the boat. Select the bulkhead floor throttle for footwell areas with built in foot rests. Select the Floor mount kit for alternate installations.

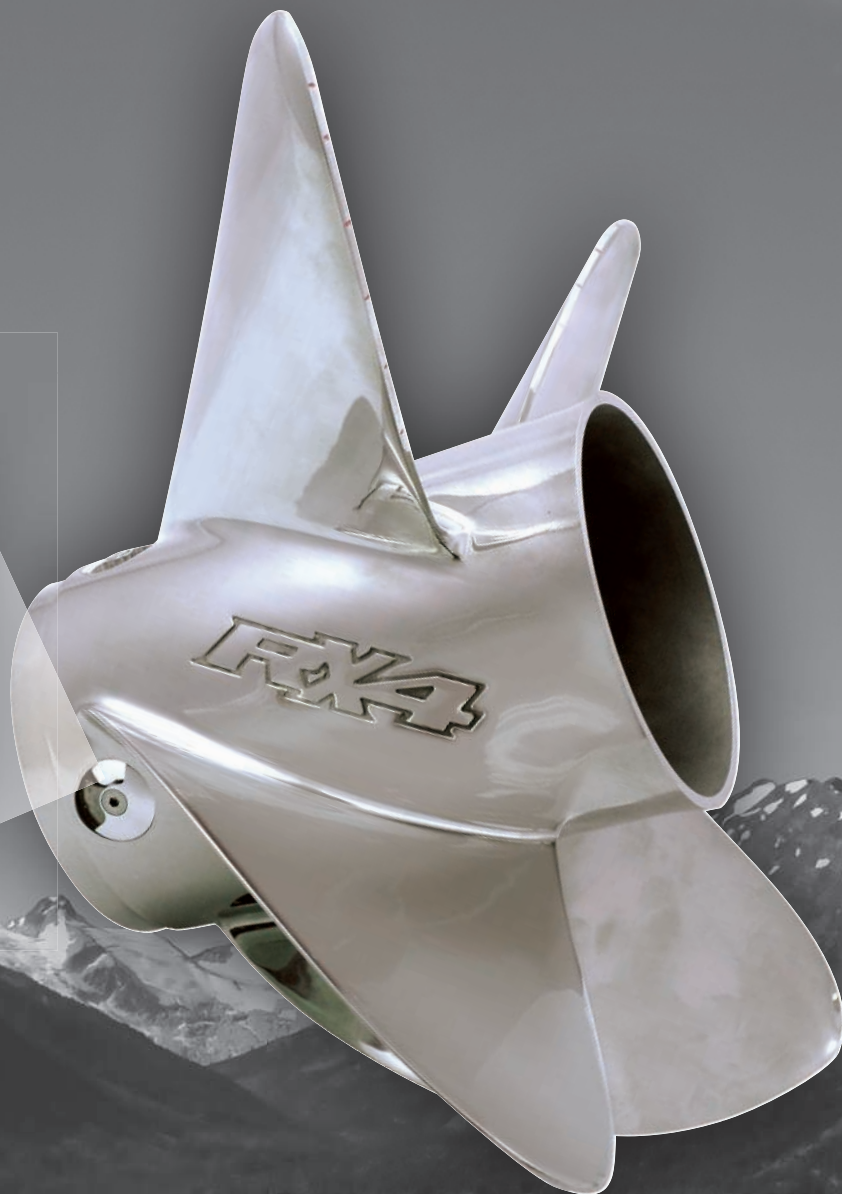
The benefits of either installation are numerous, from an automotive-like driving experience, to the improved control of keeping both hands on the steering wheel, to the smooth and predictable throttle inputs you would expect from your car or truck.

# PROPELLERS EVINRUDE® E-TEC® G2™

## V.V.P.

### **Variable Vent Porting**

allows you to custom tune acceleration power of the RX4 or Raker H.O. propeller. By adjusting the opening of the vent ports, you can change the amount of bite the propeller has on acceleration.



# **RX4**<sup>®</sup>

## **RX4<sup>®</sup> PROPELLER**

The RX4 is a no compromises 4 blade propeller. RX4 masters the power curve of the Evinrude<sup>®</sup> E-TEC<sup>®</sup> G2™ engine. It is optimized for traction and rough water performance with industry leading speed, acceleration, and fuel economy. It delivers superior bow lift on larger boats and does not slip in turns.

- Variable Vent Porting
- Every propeller is hand finished and precision gauged for quality and consistency.
- Available in right hand rotation sizes 18, 20, 22, 24, 25 and 26 pitch.
- Available in left hand rotation sizes 18, 20, 22, 24 pitch.



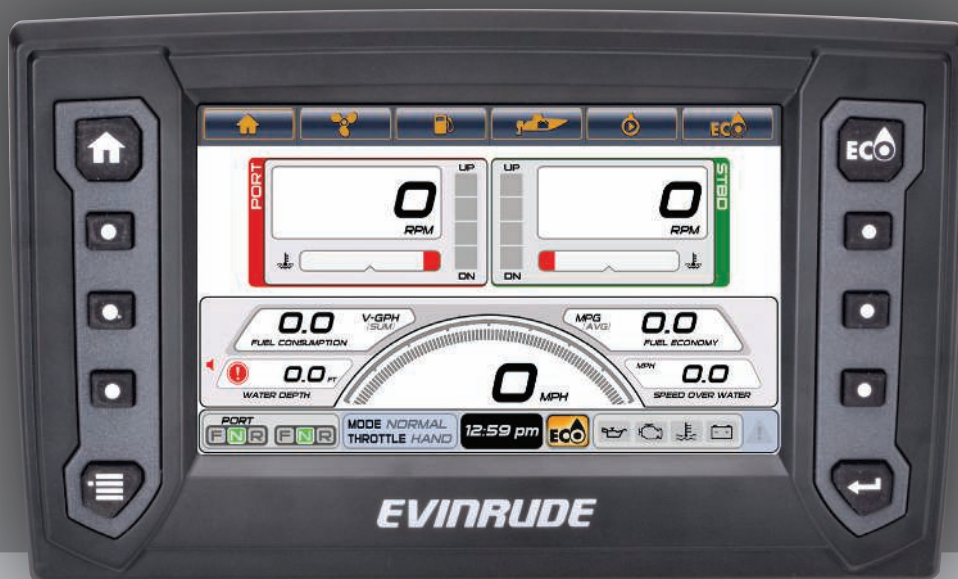
# **RAKER<sup>®</sup> H.O.**

## **RAKER H.O.<sup>®</sup> PROPELLER**

Fast, Fast, Fast. The Raker legend lives on with the Raker<sup>®</sup> H.O.. The Raker propeller line has always set the highest standard in top speed performance. The Raker H.O. is the next evolution in the line maximizing the superior power and torque of the Evinrude<sup>®</sup> E-TEC<sup>®</sup> G2 outboard and every V6 Evinrude<sup>®</sup>/Johnson<sup>®</sup> before it. Tight tolerances, precision manufacturing, and hand finishing - move the Raker<sup>®</sup> H.O. one step closer to a high performance custom propeller.

- Variable Vent Porting
- Available in right hand rotation sizes 22, 24, 25, 26 and 28 pitch.

# TOUCH SCREENS EVINRUDE® E-TEC® G2™



## ICON TOUCH 7.0 CTS COLOR TOUCH SCREEN

DESIGNED FOR EVINRUDE® E-TEC® G2. ICON™ TOUCH 7.0CTS FEATURES A LARGE FORMAT, FULL-COLOR 7.0 INCH TOUCH SCREEN.

### MAJOR FUNCTIONS AND SUPPORT INCLUDE:

- Color Touch Screen - Easy to access information - in multiple ways.
- 1, 2, 3 or 4 engine support.
- Mode control for adjustments to power steering, trim assist and for concealed side mount, switching between hand and foot throttle operation.
- Fuel tank levels up to 4 tanks
- Engine oil level and accessory oil tank levels.
- Water tank levels up to 3 tanks / 3 water types.
- Accessory display of engine water pressure, depth, SOW and water temperatures of sea water, live well and bait well.
- Multi-language - English, French, Italian, German, Spanish.
- Notification of faults and recovery actions.

### PREDEFINED, INTUITIVE AND UNCLUTTERED DESIGN ARRANGES ENGINE AND BOAT SYSTEMS INFORMATION VIA SIX SCREEN GROUPINGS:

- Home page - general cruising and performance information including RPM, trim level, engine water temperature, fuel economy MPG, fuel consumption GPH and boat speed.
- Engine page - in-depth monitoring of one or up to 4 Evinrude® E-TEC® G2 outboards.
- Fuel/Fluids page - precise readouts of fuel levels up to 4 tanks, engine oil levels and water tanks.
- Vessel page - accurate readouts on battery voltage, boat speed, and fuel economy.
- Trip Logs page - offers detailed information regarding trip distance, fuel economy, average speed and more.
- Eco view page - fuel management information allows the user to optimize engine throttle and trim adjustment for instant changes and the most efficient operation.
- A status bar is always visible with gear position, GPS clock, active throttle, and fault notifications.

### INSTALLATION REQUIREMENTS

- Surface mount dimensions - 10" / 25.4 cm wide x 6" / 15.24 cm tall.
- Includes drill template, mounting hardware and GPS antenna.



## ICON TOUCH 4.3 CTS COLOR TOUCH SCREEN

ICON TOUCH 4.3CTS FEATURES A MEDIUM FORMAT, FULL-COLOR 4.3-INCH TOUCH SCREEN. DESIGNED FOR EVINRUDE® E-TEC® G2.

### MAJOR FUNCTIONS AND SUPPORT INCLUDE:

- Color Touch Screen - Easy to access information - in multiple ways.
- 1 or 2 engine support.
- Mode control for adjustments to power steering, trim assist and for concealed side mount, switching between hand and foot throttle operation.
- Fuel tank levels up to 4 tanks.
- Engine oil level and accessory oil tank levels.
- Water tank levels up to 1 tank / 1 water type.
- Accessory display of engine water pressure, depth, SOW and water temperatures of sea water, live well and bait well.
- Multi-language - English, French, Italian, German, Spanish.
- Notification of faults and recovery actions.

### PREDEFINED, INTUITIVE AND UNCLUTTERED DESIGN ARRANGES ENGINE AND BOAT SYSTEMS INFORMATION VIA 6 SCREEN GROUPINGS:

- Home page - general cruising and performance information including RPM, trim level, engine water temperature, fuel economy MPG, fuel consumption GPH and boat speed.
- Engine page - in-depth monitoring of one or up to 2 Evinrude® E-TEC® G2 outboards.
- Fuel/Fluids page - precise readouts of fuel levels up to 4 tanks, engine oil levels and water tanks.
- Vessel page - accurate readouts on battery voltage, boat speed, and fuel economy.
- Trip Logs page - offers detailed information regarding trip distance, fuel economy, average speed and more.
- Eco View page - fuel management information allows the user to optimize engine throttle and trim adjustment for instant changes and the most efficient operation.
- A status bar is always visible with gear position, GPS clock, active throttle, and fault notifications.

### INSTALLATION REQUIREMENTS

- Surface mount dimensions - 7.5" / 19.05 cm wide x 4" / 10.16 cm tall.
- Includes drill template, mounting hardware and GPS antenna.



## ICON 3.5C COLOR SCREEN

ICON™ TOUCH 3.5C FEATURES A FULL-COLOR 3.5-INCH SCREEN. DESIGNED FOR EVINRUDE® E-TEC® G2.

### MAJOR FUNCTIONS AND SUPPORT INCLUDE:

- Color Screen - Easy to access information.
- 1 engine support.
- Mode control for adjustments to power steering, trim assist and for concealed side mount, switching between hand and foot throttle operation.
- Fuel tank levels up to 2 tanks.
- Engine oil level and accessory oil tank levels.
- Water tank levels up to 1 tank / 1 water type.
- Accessory display of engine water pressure, depth, SOW and water temperatures of sea water, live well and bait well.
- Multi-language - English, French, Italian, German, Spanish.
- Notification of faults and recovery actions.

### PREDEFINED, INTUITIVE AND UNCLUTTERED DESIGN ARRANGES ENGINE AND BOAT SYSTEMS INFORMATION VIA 5 SCREEN GROUPINGS:

- Home page - with two modes: one for general cruising information and another for just basic information such as RPM, trim level, engine water pressure and boat speed.
- Engine page - in-depth monitoring of one Evinrude® E-TEC® G2 outboard.
- Fuel/Fluids - precise readouts of fuel levels up to 2 tanks and engine oil levels.
- Vessel - accurate readouts on battery voltage, boat speed, and fuel economy.
- Trip Logs - offers detailed information regarding trip distance, fuel economy, average speed and more.
- Eco View - fuel management information allows the user to optimize engine throttle and trim adjustment for instant changes and the most efficient operation.

### INSTALLATION REQUIREMENTS

- Surface mount dimensions - 4" / 10.16 cm wide x 4" / 10.16 cm tall. Fits standard 3 3/8" round hole.

# CONTROLS

ICON EST II



## YOU'RE IN CHARGE WITH EVINRUDE ICON.

**ADVANCED INTELLIGENCE** Evinrude ICON EST is an electronic shift and throttle system for Evinrude E-TEC outboard engines. ICON supports from one to four Evinrude E-TEC V6 engines including dual station – flying bridge applications. Evinrude ICON factory models reach from 150HP to 300HP. For non-ICON factory models, an ICON engine add-on kit is available to fit MY2008 and newer, Evinrude E-TEC 150hp–300hp models. Options for every model.

**VIRTUALLY EFFORTLESS SHIFT AND THROTTLE CONTROL** No grinding of the gears. Smooth precise throttle control. Evinrude ICON delivers! Use RPM TUNE for trolling and setting the perfect cruise speed. Plus SYNC keeps twin engines running in harmony and optimized for superior efficiency. Get in your zone.



## EVINRUDE ICON PUTS YOU IN CHARGE WITH THE INDUSTRY'S MOST ADVANCED ELECTRONIC ENGINE CONTROL.

It was Evinrude designers who delivered a groundbreaking combination of ergonomics and aesthetics with the ICON digital control binnacle. And for Evinrude E-TEC G2, Evinrude pushes the throttle forward with new enhancements for this next generation of digitally controlled outboards.

**NEW STYLING** of the top-mount binnacle, with excellent ergonomics, is designed to reduce fatigue and provide smooth, predictable control.

**RELIABILITY** is built in with redundant networks and redundant sensors

**MULTIPLE ENGINE SUPPORT** Evinrude E-TEC G2 is engineered to fit up to 4 engines.

**MULTIPLE HELM STATIONS** Single station and second station rigging for flying bridge applications

The result is legendary ICON ergonomics with all new designs and advanced engineering for a new generation of Evinrude E-TEC G2 outboards.



2-4 Engine Top Mount Binnacle Control

- A POWERSYNC** Synchronize multiple engine RPMs and control multiple engines by combining shift and throttle functions with the push of a button. Boat operators can now operate multi-engine boats by using a single control lever.
- B ENGINE TRIM** A single master engine trim switch is installed on the shift lever to control all engines. Conveniently located individual trim switches allow easy operation and fine-tuning adjustments.
- C F-N-R INDICATORS** Forward-Neutral-Reverse (F-N-R) indicators easily identify gear position for added safety and usability.
- D RPM TUNE** This Evinrude exclusive is a virtual RPM cruise control ranging from idle to wide-open throttle. Press the "RPM" button on the control to fine-tune the engine RPM slightly higher or lower; this makes it easy to find the exact trolling speed or optimize fuel economy at cruise.



Single Engine Top Mount Binnacle Control



Single Engine Concealed Side Mount Control

### MULTIPLE ENGINE ICON II RIGGING KITS

P/N	Description
766130	Dual engine, main station rigging kit
766131	Dual engine, second station rigging kit
766132	Triple engine, main station rigging kit
766133	Triple engine, second station rigging kit
766134	Quad engine, main station rigging kit
766135	Quad engine, second station rigging kit

### SINGLE ENGINE ICON II RIGGING KITS

P/N	Description
766128	Single engine, main station rigging kit
766129	Single engine, second station rigging kit
766126	Concealed Side mount rigging kit

# GAUGES ICON



**ICON GAUGES.  
FROM THE FUNCTION-FILLED  
PRO SERIES TO THE NO-NON-  
SENSE BASIC SERIES.**

**FUNCTIONALITY AND ACCURACY** An analog look in a digital world working together seamlessly. Contemporary styling and high-end performance available in small and large displays. Multi-function gauges offer high visibility of information, including fuel-management functions. It's all there.

**A HOST OF OPTIONS** Evinrude offers a selection of ICON gauges, allowing you to customize your console to your exact needs. Select ICON main gauges from the Pro Series, Basic 3-n-1 or Basic series. Available in two colors. Accenting your boat is as simple as black and white.

# GAUGES ICON PRO SERIES

**INCREASED FUNCTIONALITY IN AN LCD WINDOW. SPECIALIZED FUNCTIONS INCLUDE GPS SPEED, FUEL MANAGEMENT, FUEL ECONOMY, TRIP LOGS AND MANY MORE.**

**ICON PRO** Offers digital performance wrapped in an analog look with increased functionality in an LCD window.

**SPECIALIZED FUNCTIONS** Including GPS speed, fuel management, fuel economy, trip logs and many more.

**IT'S PLUG AND PLAY** Connects directly into the existing Evinrude NMEA 2000 network.

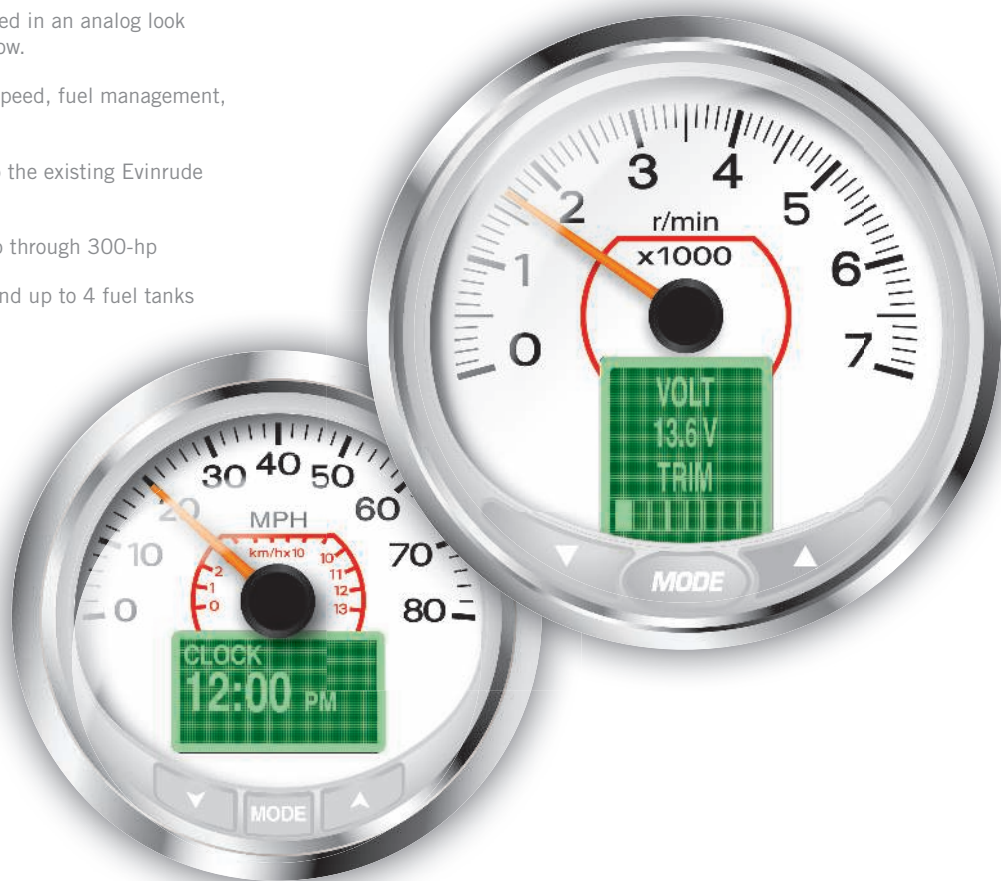
**VERSATILE** Works on Evinrude E-TEC 40-hp through 300-hp

**ALL INCLUSIVE** Supports up to 5 engines and up to 4 fuel tanks

**INTERNATIONAL** Supports multi-language

**VISIBLE** Features anti-fog lens

**SECURITY** Includes engine fault display



## ICON PRO 5.0

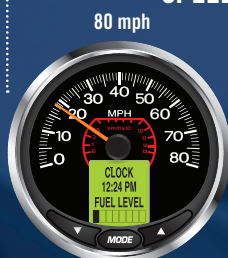
5 IN. (12 mm)

### RPM GAUGE

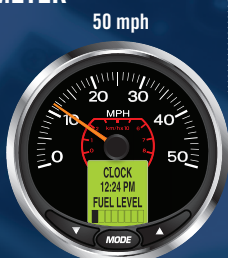


766162 Black

### SPEEDOMETER



766169 Black



766170 Black



766185 White



766192 White



766193 White

## ICON PRO 3.5

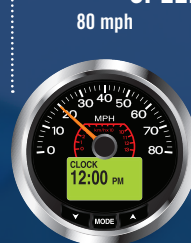
3.5 IN. (89 mm)

### RPM GAUGE



766161 Black

### SPEEDOMETER



766168 Black



766167 Black



766184 White



766191 White



766190 White

# GAUGES

## ICON BASIC SERIES

**ICON BASIC HAS THE TRADITIONAL LOOK OF AN ANALOG DIAL, WITH DATA SENT VIA THE NMEA 2000 COMMUNICATION STANDARD. THE BASIC 3.5 IN. GAUGES ARE AVAILABLE AS SPEEDOMETER AND RPM WITH SYSTEMCHECK® LIGHTS. THE BASIC 3-N-1 IS A 5.0 IN. GAUGE WITH TWO ADDITIONAL FUNCTIONS.**

**ICON BASIC** Offers digital performance with an analog look.

**BASIC FUNCTIONS** Packaged in a high value, lower cost gauge.

**USER FRIENDLY** No buttons to push, no setup required. Just straight accurate engine information

**IT'S PLUG AND PLAY** Connects directly into the existing Evinrude NMEA 2000 network.

**SIMPLE** Daisy chain connections between the tachometer and accessory gauges simplify wiring.

**VERSATILE** Works on Evinrude E-TEC 40-hp through 300-hp

**FLEXIBLE** Supports up to 2 engines and up to 2 fuel tanks

**MULTI-FUNCTION 3-N-1 GAUGES** offer high visibility and compact installation. Two gauges offer 7 major functions.

**VISIBLE** Features anti-fog lens

**SECURITY** Includes engine fault warning lights



### ICON BASIC 3-N-1

5 IN. (127 mm)

### ICON BASIC

3.5 IN. (89 mm)

#### RPM GAUGE

#### SPEEDOMETER

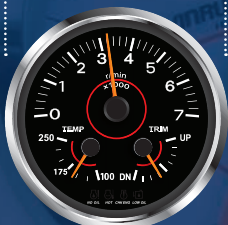
#### RPM GAUGE

80 mph

#### SPEEDOMETER

50 mph

30 mph



766160 Black with Engine Temp. & Trim

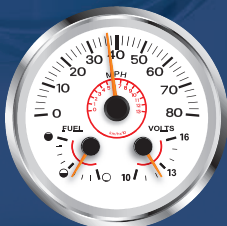
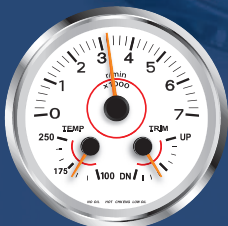
766166 Black with Fuel & Volt

766159 Black

766165 Black

766164 Black

766163 Black



766183 White with Engine Temp. & Trim

766189 White with Fuel & Volt

766182 White

766188 White

766187 White

766186 White

# GAUGES

## ICON ACCESSORY SERIES

**ICON ACCESSORY GAUGES ARE THE PERFECT COMPLEMENT TO THE ICON PRO, ICON BASIC 3-N-1 AND ICON BASIC MAIN GAUGES. FROM ADDING A SINGLE FUEL GAUGE TO TRYING TO SIMULATE A FIGHTER JET COCKPIT, EVINRUDE ICON ACCESSORY GAUGES COMPLETE YOUR CONSOLE.**

**ACCESSORY GAUGES** Provide dedicated display of water pressure, fuel level, battery volts, engine trim, engine temperature and oil tank level.



### ICON ACCESSORY

2 IN. (51 mm)

FUEL			VOLT			WATER PRESSURE		OIL LEVEL	TRIM	ENGINE TEMP.
TANK 1	TANK 2	TANK 3	BATTERY 1	BATTERY 2	BATTERY 3	30 PSI	60 PSI			
766176 Black	766177 Black	766178 Black	766179 Black	766180 Black	766181 Black	766171 Black	766172 Black	766174 Black	766173 Black	766175 Black
766199 White	766200 White	766201 White	766202 White	766203 White	766204 White	766194 White	766195 White	766197 White	766196 White	766198 White

### ADDITIONAL ACCESSORIES

P/N	Description
766114	ICON Basic backlight adjustment kit Note: Optional with ICON Basic gauge to provide backlight dimming.
765510	Harness, fuel level input, 3rd & 4th tank level display Note: Needed to add Fuel Tank input for Tank 3 and 4. Use on ICON PRO.
765349	GPS antenna - SOG input
764193	Paddle Wheel Kit - SOW input
764671	Triducer, transom mount, SOW/Depth/Seawater temp
764673	Triducer, thru-hull, plastic, SOW/Depth/Seawater temp
764672	Transducer, transom mount, Depth /Seawater temp (no Speed)

### WATER PRESSURE SENSORS

P/N	Description	HP Range	Model Year	Pressure Range
5008300	Block Mounted Sensor	115HP - 300HP	2008 - 2011	0 - 30 PSI
5008640	Block Mounted Sensor	115HP - 300HP	2012 & newer	0 - 50 PSI
765038	NMEA Network Based Sensor	40HP - 90HP	2008 & newer	0 - 100 PSI

### ICON GAUGE NETWORK PARTS

P/N	Description
766026	Engine EMM Harness - per engine
764157	Power Supply - per boat
764155	Terminator Kit - per boat
764163	Backbone - 25 feet - per boat
765349	GPS Module - per boat

# GAUGES I-COMMAND



**FULLY CUSTOMIZABLE. FROM THE FUNCTION(S) TO THE FORMAT, TO THE COLOR OF THE BEZEL.**

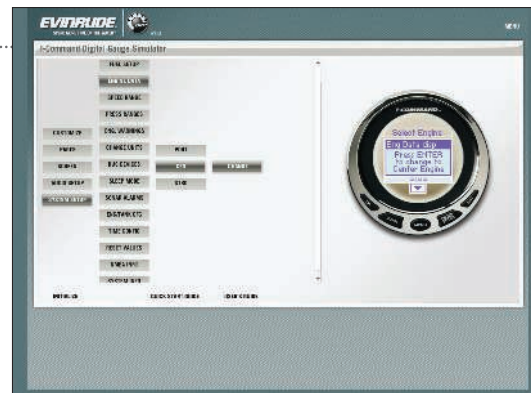
**INFORMATION OVERLOAD** Evinrude® I-Command™ Digital gauges are designed to help you make the most of your time on the water. Ever wonder if you could make it to your favorite fishing hole, or how to maximize your fuel economy? Wonder no more. Never before have you had this much marine “Know How” available at the touch of a button. Information overload? – not quite!

**SIMPLICITY** I-Command Digital gauges feature an easy to use menu structure that allows for the ultimate in user customization. You see exactly what you want to see when you want to see it. To help you learn how easy it is, BRP has developed an Evinrude interactive learning tool that can be found at [www.evinrude.com](http://www.evinrude.com). This innovative tool maps out the menu selections to help customize the information displayed. You can also download the latest instruction sheets for the gauges. Just another example of BRP's innovation.

# I-COMMAND DIGITAL. COMPLETE, ACCURATE INFORMATION ON WATER PRESSURE, FUEL, BATTERY, ENGINE HOURS AND ENGINE TRIM. PLUS, YOU CAN CHANGE THE FORMAT AT THE TOUCH OF A BUTTON—DIGITAL OR ANALOG WITH SINGLE, DUAL OR QUAD VIEWING.

**INTUITIVE INFORMATION** Evinrude I-Command Digital gauges let you find the information you need when you need it. Engine and vessel information can be customized for clear accurate display. If you want digital displays – you can see it. If you want the tradition of an analog needle – you can see it. Change is good.

**FUEL MANAGEMENT FUNCTIONALITY** Fuel management has always been desired by weekend boaters as well as the most seasoned skippers. I-Command Digital gauges display fuel burned from the moment it is consumed. You can see instant MPG and remaining fuel so you know exactly how far your Evinrude E-TEC can take you. Smart, Simple, Accurate.



**BUILD YOUR OWN** Want to build your own ICON EST system? Want to see how I-Command™ gauges work? Want to see all the I-Command parts in the system? For a virtual demo, visit [Evinrude.com](http://Evinrude.com).

## I-COMMAND DIGITAL GAUGE NETWORK PARTS

P/N	Description
766026	Engine EMM Harness – per engine
764157	Power Supply – per boat
764155	Terminator Kit – per boat
764163	Backbone – 25 feet – per boat
765349	GPS Module – per boat
764168	Fuel level converter – single tank



766024 3.5" Gauge with Silver Bezel (764640)  
Shown in digital format



766025 2.0" Gauge with Silver Bezel (764641)  
Shown in digital format



766025 2.0" Gauge with Silver Bezel (764641)  
Shown in digital format

## I-COMMAND 3.5

Shown in analog format



766024 3.5" Gauge with Standard Black Bezel  
Includes Network Tee & Horn

3.5 IN. (89 mm)



764013 3.5" White Bezel



764640 3.5" Silver Bezel

## I-COMMAND 2.0

Shown in analog format



766025 2.0" Gauge with Standard Black Bezel  
Includes Network Tee & Horn

2 IN. (51 mm)



764012 2.0" White Bezel



764641 2.0" Silver Bezel

# CONTROLS

## OPTIMUS 360 BY SEASTAR POWER STEERING & JOYSTICK DOCKING CONTROL



**OPTIMUS360**  
BY *SeaStar*

Intelligent outboard control

**COMPLETE CONTROL, WITH  
CONFIDENCE, PEACE OF  
MIND IN ANY HARBOR OR  
MARINA.**

**YOU ARE IN CONTROL** From the launch ramp, to the dock, to open water and back... Evinrude E-TEC and Optimus 360 by SeaStar take you anywhere you want to go with confidence, peace of mind and total control. Optimus 360 by SeaStar is a revolutionary power steering and joystick docking control system engineered for powerboats with twin Evinrude E-TEC V6 outboards equipped with the Evinrude ICON electronic shift and throttle system. It's all about you.

**LESS STRESS** When integrated into the Evinrude E-TEC platform, Optimus 360 by SeaStar will give boat operators a new level of control for their vessel and more confidence in their own maneuvering skills. Optimus 360 by SeaStar will improve the overall steering and control experience at all speeds of offshore center consoles, catamarans, high performance cruisers and other popular twin engine boats. Operators can control their boat with fewer hassles and worries. Simply better control and handling.



# NOW, OWNERS OF OFFSHORE CENTER CONSOLES, POWER CATAMARANS, AND HIGH PERFORMANCE CRUISERS CAN ENJOY THEIR TIME ON THE WATER WITHOUT THE STRESSES OF PULLING IN FOR FUEL, SQUEEZING INTO A NARROW SLIP OR LAUNCHING/RETRIEVING AT A BUSY LAUNCH RAMP.

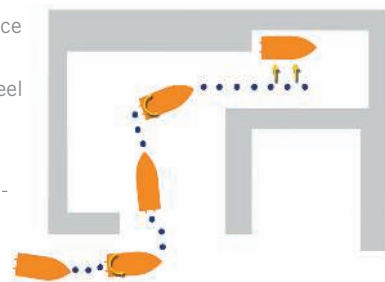
**SPEED SENSITIVE POWER ASSIST STEERING** With customizable steering effort and response along with speed-sensitive helm turn ratios, Optimus 360 by SeaStar and its power steering system provides virtually effortless steering control at all RPM speeds – from idle to wide-open throttle. Users can set the lock-to-lock steering ratio according to boat speed in order to fit their unique needs. Engine alignment, also known as toe-in and toe out, can be fine tuned to deliver maximum hydrodynamic efficiency. Optimus 360 by SeaStar supports 3rd party auto-pilot controls without the expense of additional steering components. No strong arm tactics here.

**360-DEGREE MANEUVERING AGILITY** With fingertip control the operator easily moves the 3 axis joystick docking control to easily negotiate crowded areas, dock the vessel for tie up and even to load and unload the boat from a trailer. SmartCylinders with rudder position sensors allow twin Evinrude E-TEC engines to be controlled independently or in tandem to maneuver the boat sideways, diagonally, forward and backwards, rotate on its axis or even crab-over sideways to accomplish tricky docking maneuvers. The unique BOOST mode provides increased docking power in wind and water current. It is so easy.



## PERFORMANCE FEATURES

- User adjustable speed sensitive helm turn ratios.
- User adjustable steering resistance and steering response
- Three axis joystick with guided feel and boost mode
- Independently steered engines
- Smart Cylinders with rudder position sensors
- Compatible with 3rd party autopilot systems
- On demand hydraulic steering pumps for lower power consumption
- Service valves maintain engine alignment without tie bars



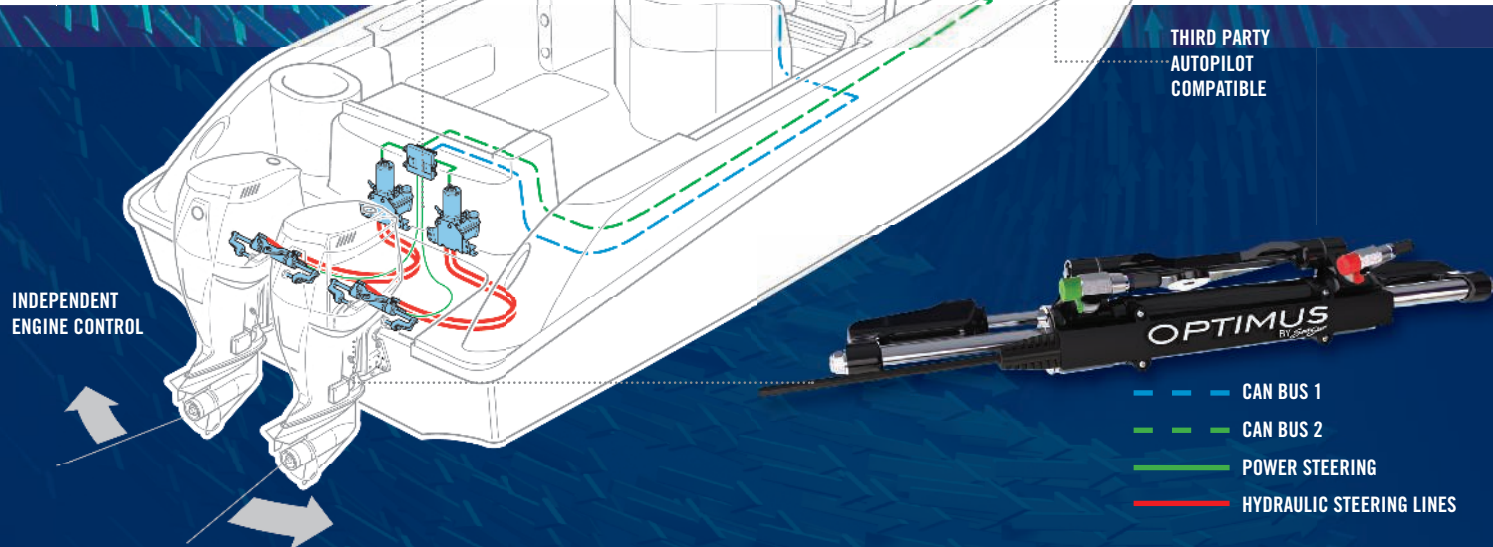
## SAFETY AND RELIABILITY FEATURES

- Sealed, waterproof locking cable connections
- Designed for harsh marine environments
- Safety-first redundant electronics, hydraulics and fault tolerant networks give peace of mind for reliability and superior quality.
- Evinrude ICON and SeaStar Optimus 360 systems exceed North American ABYC and European ISO Standards — recognized symbols of quality and safety. Assurance for boat builders and boaters alike.



CONTROL MODULE

OPTIMUS 360 JOYSTICK



Please contact an authorized Evinrude dealer for more information.

# WHERE THE POWER MEETS THE WATER!



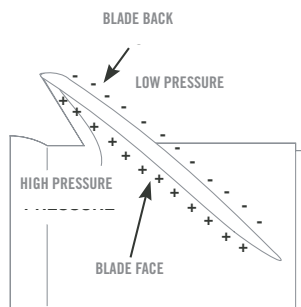
Choosing the right propeller is the single most important decision you can make to get the best performance from your boat and outboard! Propeller choice can affect boat top speed by as much as 5 to 10 MPH. It also has a direct effect on acceleration, cornering, pulling power, and fuel economy. With some boats, you may need to change propellers for different activities, such as high speed cruising, water skiing, or carrying heavy loads. Using the wrong propeller in any of these applications will not only hurt performance, but could also cause engine damage.





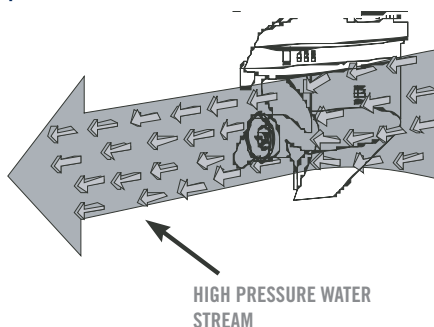
## BASIC PROPELLER TERMS

- A LEADING EDGE.** The edge of the blade closest to the boat.
- B TRAILING EDGE:** The edge of the blade farthest from the boat.
- C BLADE TIP:** The point on the blade farthest from the hub. It separates the leading edge from the trailing edge.
- D BLADE ROOT:** The area where the blade attaches to the hub.
- E BLADE BACK:** The side of the blade closest to the boat (low pressure side).
- F BLADE FACE:** The side of the blade opposite to the boat (high pressure side).



## HOW DOES A PROPELLER WORK?

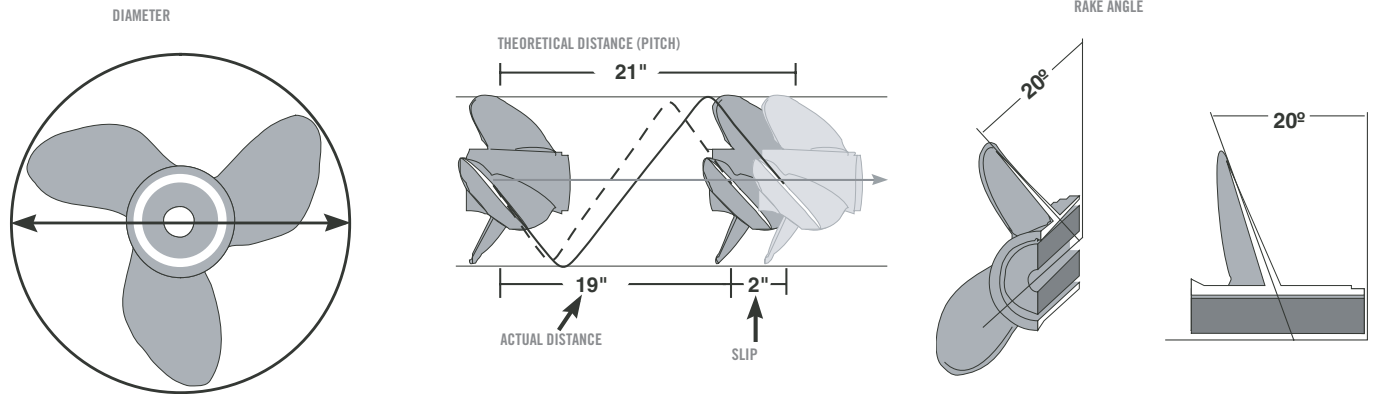
A propeller is a set of identical twisted blades, spaced evenly around a hub. Most propellers have a splined bushing in the hub that mounts on the outboard. The bushing attaches to the propeller with flexible rubber that acts like a shock absorber. If the propeller strikes something hard, the rubber helps protect against damage. Newer propellers may use a multi-piece interchangeable hub system. Refer to Propeller Hub Systems on Page 24. Each propeller blade has two surfaces that displace water to move the boat. As the propeller rotates, the blade back creates a low pressure that helps pull the boat forward. The blade face creates high pressure as it rotates. This pressure forces a stream of water away from the propeller. As the water is pushed to the rear, an equal force pushes the boat forward.



# WHAT TO CONSIDER WHEN SHOPPING FOR A PROPELLER

## WHAT TO CONSIDER WHEN SHOPPING FOR A PROPELLER

SEVERAL CHARACTERISTICS AFFECT HOW A PROPELLER WILL PERFORM. ESPECIALLY IMPORTANT ARE PROPELLER DIAMETER, PITCH, RAKE, AND CUP. MOST PROPELLERS ARE IDENTIFIED BY THEIR DIAMETER AND PITCH. LOOK FOR A NUMBER LIKE  $14\frac{3}{4} \times 21$ . THE FIRST NUMBER IS THE DIAMETER, THE SECOND IS THE PITCH. IN ADDITION, IT IS IMPORTANT TO UNDERSTAND THE EFFECTS OF VENTILATION, CAVITATION, MATERIALS, AND OTHER APPLICATION VARIABLES ON PROPELLER PERFORMANCE.



### DIAMETER

Diameter is the width of the circle described by the tips of the rotating blades. Propeller diameter determines the amount of power a propeller can apply to the water—how much load the propeller can push. Generally, heavy loads require larger diameter propellers while small, fast boats are more efficient with a smaller diameter. However, diameter is not usually a critical option when choosing a propeller. Focus instead on propeller style and pitch.

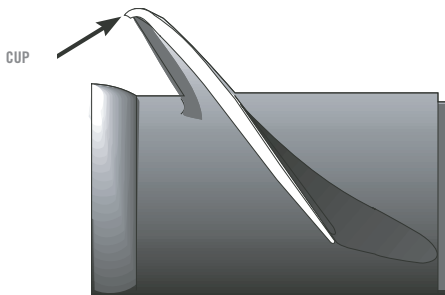
### PITCH

Pitch is the theoretical distance a propeller will travel in one complete revolution. For example, a  $14\frac{1}{2} \times 21$  propeller would ideally move 21 inches forward with each revolution. In practice, the actual distance travelled is less than the pitch because of “slip” which is necessary to produce thrust. Lower pitched propellers are like the lower gears on a car or bicycle. They create less forward travel with each revolution. A low pitch allows engine RPM to build up quickly, which gives faster acceleration and more pulling power. This works well for heavy loads, but results in slower top speeds. Higher pitched propellers are similar to high gears. They create more forward travel with each revolution. A high pitch puts more load on the engine, which reduces low speed pulling power and acceleration, but usually provides more top speed.

### RAKE

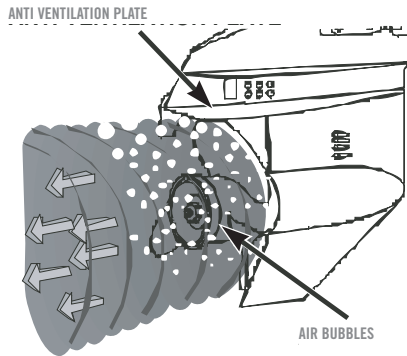
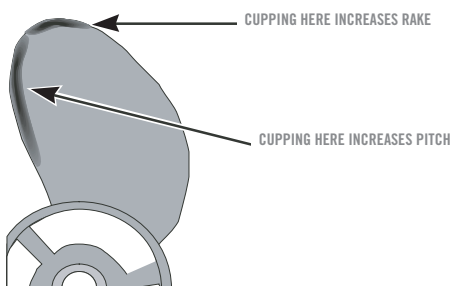
Rake is the angle the blade tip tilts away from the gearcase. The angle is measured on a line extending from the center of the hub through the center of the blade. Rake can be either flat or progressive. Progressive rake means that the rake angle increases with distance from the hub. Most propellers have between  $0^\circ$  and  $20^\circ$  rake. High rake propellers tend to lift the bow of the boat. On fast, lightweight, V-bottom boats, a high rake propeller should increase speed by reducing the amount of wetted hull surface. When operated partially surfacing, high rake propellers reduce the amount of water being thrown off the blade by centrifugal force as the blade leaves the water. This allows high rake propellers to work more effectively in these applications. Tunnel boats and other air entrapment type hulls may become unstable when using a high rake propeller. In these applications, a propeller with less bow lift would be a more appropriate selection.





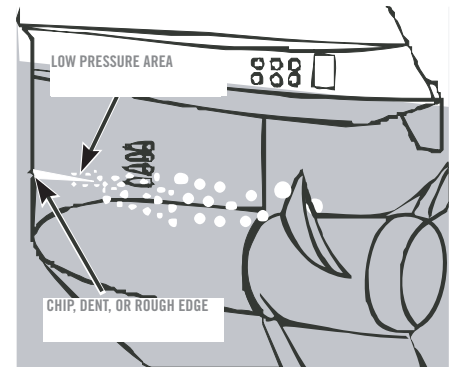
## CUP

Cup is the small curved lip added to the edges of some propellers. Cupping acts like a seal on the edge of the blade. It keeps water on the high pressure blade face from flowing around the trailing edge to the low pressure area on the blade back. This reduces ventilation and slipping, especially when operating in disturbed or aerated water. Propellers with cup excel in sharp turns and applications where the engine is mounted higher than normal. Cupping also allows the outboard to be trimmed higher for more bow lift. Cupping the tips of the blades increases the effective rake, adding to the bow lift capabilities of the propeller. Adding cup to the trailing edge of the blades has the effect of increasing pitch. As a result, you can expect a slight loss of engine speed (150-300 RPM) when cup is added. However, the additional cup may allow the propeller to work at a higher transom height. Raising the motor will reduce drag on the gearcase and will often recover the engine speed.



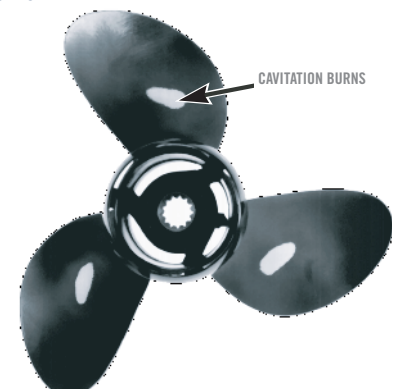
## VENTILATION

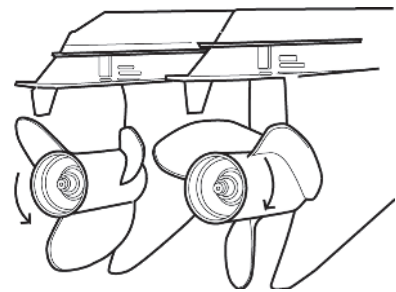
Ventilation is the result of air bubbles from surface air or exhaust gases being drawn into the blades. These pockets of air make a propeller lose its bite or thrust. Your RPM may climb wildly, yet you may not gain or lose speed. This is most common with high transom mountings, extreme trim settings, or sharp turns. To help prevent ventilation, the outboard has an anti-ventilation plate directly above the propeller. For most applications, this plate should be within an inch above or below the bottom of the boat. On a high-performance boat, this rule does not necessarily apply. The anti-ventilation plate may be several inches above the boat bottom. Water testing is the best way to determine the correct engine mounting height. Cupped or high performance propellers help minimize ventilation.



## CAVITATION

Cavitation is caused by a disturbance of the water flow in front of the propeller. An irregularity in the boat bottom or gearcase, a misplaced transducer or speedometer pickup, or even a loose rivet can cause this problem. Cavitation begins when a disturbance creates a low-pressure area in the water flow. As speed increases, the low pressure intensifies enough to vaporize (boil) some of the surrounding water. When the vapor bubbles approach a high pressure area, they collapse, releasing energy and causing damage. The results of cavitation usually appear as burned areas on the gearcase or propeller blades. If the damage is substantial, performance is lost and the propeller should be replaced. In addition, the cause of the disturbance should be repaired to prevent further problems.





## MATERIAL

Aluminum propellers provide a good balance of cost, performance, and durability for most applications.

Stainless steel propellers offer improved performance, fuel economy, and durability. Because stainless steel is five times stronger than aluminum, it is much less susceptible to damage from striking underwater objects. However, the main advantage of stainless steel is in performance. Because of its strength, stainless propeller blades can be cast much thinner, which reduces drag. Stainless steel blades are also stiffer, which increases efficiency. Composite and plastic propellers are generally used for emergency situations.

## BLADE COUNT

Theoretically, the fewer number of blades a propeller has, the more efficient it will be. But as the number of blades is increased, vibration is decreased. For most applications, three blade propellers provide the best balance between efficiency and smoothness. However, BRP/Evinrude engineers have created a series of four blade propellers that provide increased efficiency and a superior grip on the water. The result is improved acceleration and better cornering in all water conditions. In addition, when operated in a surfacing application, a four blade propeller keeps more blades in the water for maximum thrust and efficiency.

## ROTATION

Right-hand propellers are considered standard rotation propellers. To move the boat forward, the propeller rotates in a right-hand (clockwise) direction as viewed from the rear. Left-hand propellers are considered counter-rotation propellers. To move the boat forward, the propeller rotates in a left-hand (counterclockwise) direction as viewed from the rear. Left-hand propellers must **ONLY** be used on an outboard equipped with a counter-rotation gearcase. In a dual-outboard installation, the use of both right-hand and left-hand propellers balances the torque created by the rotation of the propellers. This helps to reduce the effort needed in steering and also helps to keep the boat level from side to side.

## WARNING

For dual-outboard installations, always check to be sure propellers are installed on the correct engines before aggressively operating the boat.

# SELECT THE RIGHT PROPELLER FOR YOUR BOAT AND OUTBOARD

## STEP ONE

Choose the propeller type designed for the way the boat will be used:

- Fishing, skiing, cruising, commercial, racing, etc?
- How many people will be on board?
- Is the water shallow, or are there rocks or other underwater objects?
- Will the boat be used for multiple purposes?

Use the propeller family descriptions in the following pages as a guide. For example, a Rebel™ propeller could be a good choice for a large, offshore boat. In contrast, a Raker® propeller provides bow lift, for increased top speed, on small, fast boats.

## STEP TWO

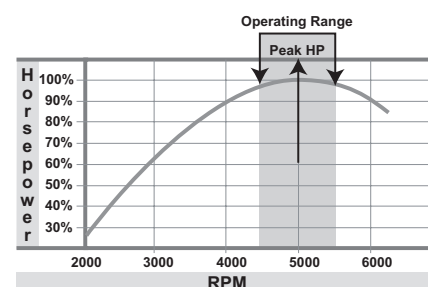
Find the correct sized propeller for your specific outboard, boat, and load combination. When selecting a propeller, start with the propeller charts in the following pages. These charts group all of the propellers designed for a particular outboard and provide detailed information such as pitch, diameter, style, and the number of blades.

To complete the selection process, you must perform a water test. During this running test, you will determine the best combination of engine mounting height, propeller style, and propeller pitch.

All Evinrude and Johnson outboards have a recommended full throttle operating range. This means that, at full throttle, engine RPM must never be below or above this range. These specifications can be found in the Operator's Guide.

The propeller provides the load that controls engine RPM. Reducing propeller pitch size will increase engine RPM at full throttle. Increasing propeller pitch size will decrease engine RPM at full throttle.

You have the correct propeller pitch when the engine runs at the midpoint of the full throttle operating RPM range with the normal, expected load in the boat. This is usually the point of peak horsepower. Choosing the correct propeller pitch for a given boat and application will ensure long engine life, along with best overall fuel economy and performance.



When you have a selection of propellers ready for testing:

1. Use an accurate tachometer to measure RPM and an accurate speedometer to measure boat speed.
2. Testing should be performed with the typical load—number of people, gear, water in live wells, etc.
3. Make sure that every test is with an identical setup.
4. Test each propeller at wide open throttle (WOT).
5. Engines should be tested at their optimum trim angle. This is the highest trim position the engine can be run without excessive ventilation, either in a straight line or in turns.
6. If the RPM is too low at WOT, try a reduced pitch and retest.
7. If the RPM is too high at WOT, test a propeller with more pitch. One pitch size usually results in a change of 200-300 RPM.
8. If the boat will be used for two applications, like water skiing and cruising, it may be necessary to test propellers for each type of use.

## STEP THREE

Adjust the engine mounting height for peak performance. The ideal engine mounting height provides the fastest boat speed without sacrificing acceleration, maneuverability, or engine water pressure. It is achieved by a trial and error method.

1. Start with the outboard's anti-ventilation plate even with the bottom of the boat.
2. Raise the outboard one mounting hole at a time until engine performance is no longer acceptable. Then, lower the outboard back down one hole. Optimum engine height is affected by propeller style, diameter, and pitch. As you raise the engine, you may need to experiment with a variety of propellers to maximize performance.

## THINGS TO REMEMBER

Check full throttle RPM often. It is possible that the propeller pitch size may have to change as the boating application or load changes.

- Adding or removing people can significantly change the power requirements placed on the engine.
- Changes in atmospheric pressure, temperature, and humidity all affect engine performance, which directly affects propeller performance.
- Salt water is more buoyant than fresh water; this may cause some hulls to run faster when moving from a fresh water to salt water location.
- The accumulation of marine growth or dirt—moss, barnacles, lime deposits, etc—is a major cause of poor boat performance.

# PROPELLER HUB SYSTEMS



## DID YOU KNOW EVINRUDE JOHNSON GENUINE PARTS HAS PROPELLERS TO FIT EVERY BRAND OF OUTBOARD ENGINE?

Evinrude and Johnson has been a leader in propeller performance for over 40 years. Since 1982 our engineers have laid claim to defining new levels of speed and performance with the legendary Raker and now the Raker II propellers. Since the Nineties, the Viper propeller has unleashed previously unknown performance in the everyday runabout. As an extra bonus every Evinrude Johnson propeller comes with a 3 year limited warranty.

Evinrude Johnson Genuine Parts has been expanding our propeller line to include a select group of V4 and V6 propellers with interchangeable hub systems.

The Evinrude Johnson interchangeable hub offering begins with V4 and V6 aluminum propellers, commonly referenced in the aftermarket as D Series and E Series. They use the "Aluminum Interchangeable Hub" system and can be fitted with accessory hub kits designed to match the propeller

shaft of all brands of outboard engines.

The expanded lineup continues into the V6, E Series stainless steel propellers comprised of SSP, Viper, Rebel, Cyclone and Raker II propellers. These props use the TBX hub system designed specifically for the heavy load requirements of high horsepower outboards. With only one additional TBX hub kit these propellers can also be fitted to virtually every competitive brand of V6 outboard engine.

## PROPELLER HUB SYSTEM - V6 STAINLESS STEEL PROPELLER INTERCHANGEABLE CHART

DESCRIPTION	P/N
Evinrude E-TEC G2 TBX™ bushing kit (POP) - PY2015 thru	767683
TBX™ bushing kit (POP) - Evinrude®/Johnson® outboards V6 (1997 thru 2015)	177283
TBX™ bushing kit (POP) - competitive outboards V6	177288

## PROPELLER HUB SYSTEM - ALUMINUM PROPELLER INTERCHANGEABLE CHART

APPLICATION	SPLINE	YEAR	P/N
Evinrude®/Johnson® V4 45-75 HP, large gearcase 4-1/4"	13	1968-current	765195
Evinrude®/Johnson® V4 85-140 HP	13	1969-current	765195
Evinrude®/Johnson® 90-140 HP, large gearcase	15	1991-current	765190
Force® 75-150 HP	15	1995-current	765192
Honda® 75-150 HP	15	1995-1998	765192
Honda® BF 135 HP, 150 HP, 200 & 225 HP	15	2003-current	765192
Mercury®/Mariner®/MerCruiser® 60 HP Bigfoot	15		765192
Mercury®/Mariner®/MerCruiser® 70-140 HP (except 135 HP), XR-4, XR-6	15	1961-current	765192
Mercury®/Mariner®/MerCruiser® 135 HP	15	1987-current	765192
Mercury®/Mariner®/MerCruiser® 150-300 HP	15	1978-current	765192
Yamaha® 80-140 HP	15	1978-1983	765192
Yamaha® 150-175 HP	15	1978-1983	765192
Yamaha® 115 HP, FS115 (4-stroke), 130 HP	15	1984-current	765193
Yamaha® 150-130 HP	15	1984-current	765193
Yamaha® Sterndrives	15	1989-1993	765193
OMC Cobra® SX	19	1994-current	765194
Volvo® SX Sterndrives	19	1994-current	765194
Honda® 75-90 HP	15	1999-current	765196
Honda® 115-130 HP	15	1999-current	765196
Nissan®/Tohatsu® 90-140 HP	15	1987-current	765197
Mercury®/Mariner®/MerCruiser® 225 EFI (4-stroke) manufactured by Yamaha®	15		765198
Evinrude®/Johnson® 90, 115 HP (4-stroke)	15	2003-current	765199
Suzuki® DF90, DF115 (4-stroke)	15	2001-current	765199
Suzuki® DF140 (4-stroke)	15	2001-current	765200



# FAMILY DESCRIPTIONS

## RX4®

The RX4 is a no compromises 4 blade propeller. RX4 masters the power curve of the Evinrude E-TEC G2 engine. It is optimized for traction and rough water performance with industry leading speed, acceleration, and fuel economy. It delivers superior bow lift on larger boats & does not slip in turns.

- Variable Vent Porting
- Every propeller is hand finished and precision gaud for quality and consistency.
- Available in right hand rotation sizes 18, 20, 22, 24, 25 and 26 pitch.
- Available in left hand rotation sizes 18, 20, 22, 24 pitch.



## RAKER H.O.®

Fast, Fast, Fast. The Raker legend lives on with the Raker H.O.. The Raker propeller line has always set the highest standard in top speed performance. The Raker H.O. is the next evolution in the line maximizing the superior power and torque of the Evinrude E-TEC G2 outboard and every V6 Evinrude/Johnson before it. Tight tolerances, precision manufacturing, and hand finishing - move the Raker H.O. one step closer to a high performance custom propeller.

- Variable Vent Porting
- Available in right hand rotation sizes 22, 24, 25, 26 and 28 pitch.



The right propeller will increase fuel economy, top-end speed and even engine life. We've engineered Evinrude Johnson propellers for every application. And all of our props feature a 3-year limited warranty. The best propellers all have one thing in common: the legendary Evinrude Johnson name.

## REBEL® TBX™

### OFFSHORE & CRUISING

- V6 – Standard & Counter Rotation
- Use on offshore boats, large runabouts
- Designed & engineered for efficient midrange cruising
- Improved fuel economy with longer cruising range
- TBX interchangeable hub system



## RAKER® II TBX™

### BASS & HIGH PERFORMANCE

- Fast, Fast, Fast...
- Custom cupped high rake blades
- Superior bow lift
- Exceptional top end speed
- Vented hub for faster acceleration
- V6 Raker II use the TBX hub system



## CYCLONE™ TBX™

### OFFSHORE CRUISING & RUNABOUTS

- V6 – Standard & Counter Rotation
- Enhanced performance propeller
- Stays on plane with minimum RPM
- Less vibration and improved fuel economy
- TBX interchangeable hub system



## ROGUE™

### SMALL RUNABOUTS & FLATS BOATS

- Provides extra stern lift
- Stays on plane w/minimum RPM
- Custom high luster finish
- 40HP-130HP w/shock absorbing rubber hub



## HYDRUS™ PONTOON

### PONTOON BOATS

- Ideal upgrade from aluminum
- Fast planing 3-blade versatile prop
- Cupped blades
- V6 sizes use the TBX™ hub system
- 40HP-130HP w/shock absorbing rubber hub



## ALUMINUM

### GENERAL PURPOSE & ECONOMY

- Sizes for 40HP through 300HP
- Lowest cost and good value
- Precision casting provides great strength & long life
- Cupped blades
- Includes custom interchangeable hub system



## FAMILY APPLICATION CHART

ENGINE TYPE	ALUMINUM	HYDRUS	SSP	ROGUE	RX4	RAKER H.O.	VIPER	REBEL	CYCLONE
I2 40-60 HP	•	•	•	•					
I3 75-90 HP*	•	•	•	•					
V4 I15-130 HP	•	•	•	•					
V6 150-300 HP	•		•		•	•	•	•	•
Rotation - Standard RH	•	•	•	•	•	•	•	•	•
Rotation - Counter LH			•		•		•	•	•

BOAT TYPE	ALUMINUM	HYDRUS	SSP	ROGUE	RX4	RAKER H.O.	VIPER	REBEL	CYCLONE
Runabout - Fiberglass	•		•	•	•		•		•
Runabout - Aluminum	•		•	•	•		•		•
Deck Boat	•				•		•	•	•
Flats Boat	•			•			•		•
Bay Boat	•			•			•	•	•
Multi-Species Boat - Aluminum	•				•		•		•
Multi-Species Boat - Fiberglass					•	•	•	•	
Bass Boat					•	•			•
Sport Runabout 150 HP+					•	•			
Offshore - small, single engine	•			•	•		•	•	•
Offshore - multiple engine					•		•	•	•
Pontoon - twin log	•	•	•	•			•	•	•
Pontoon - triple log					•		•	•	

# QUICK REFERENCE GUIDE

ALL ALUMINUM PROPELLERS FITTING 40-140HP 2-STROKE, I3 SPLINE AND V6 ALUMINUM PROPELLERS, I5 SPLINE ARE PACKAGED WITH ALUMINUM INTERCHANGEABLE HUB KIT. ALL V6 STAINLESS STEEL PROPELLERS ARE PACKAGED WITH THE EVINRUDE / JOHNSON TBX HUB KIT. REFER TO THE INTERCHANGEABLE HUB KIT CHART TO ORDER KITS TO FIT COMPETITORS OUTBOARDS.

ALL EVINRUDE®/JOHNSON® PROPELLERS HAVE A 3-YEAR LIMITED WARRANTY!

## 15H.O.-30 HP EVINRUDE® E-TEC®

P/N	MATERIAL/FAMILY	BLADE COUNT	DIAMETER	PITCH	NOTES
5008225	Aluminum	4	11"	7"	I5H.O. High Thrust
765048	Aluminum	3	11"	9"	General Purpose and Economy
765049	Aluminum	3	10 1/2"	11"	General Purpose and Economy
765135	Aluminum	4	10.2"	11"	General Purpose and Economy
765050	Aluminum	3	10.3"	12"	General Purpose and Economy
765136	Aluminum	4	10.1"	12"	General Purpose and Economy
778863	Aluminum	3	10.3"	13"	General Purpose and Economy
765137	Aluminum	4	10"	13"	General Purpose and Economy
765138	Aluminum	4	10"	14"	General Purpose and Economy
763486	Aluminum	3	10"	15"	General Purpose and Economy
765139	Aluminum	4	10"	15"	General Purpose and Economy
765176	SSP	3	10"	11"	Durability and General Purpose
765174	SSP	4	10"	11"	Durability and General Purpose
765177	SSP	3	10"	12"	Durability and General Purpose
765175	SSP	4	10"	12"	Durability and General Purpose
765178	SSP	3	10"	13"	Durability and General Purpose
766153	SSP	4	10"	13"	Durability and General Purpose
765179	SSP	3	10"	14"	Durability and General Purpose
765180	SSP	3	10"	15"	Durability and General Purpose

## 40-130 HP EVINRUDE® E-TEC® (EXCLUDES 25" MODELS)

P/N	MATERIAL/FAMILY	BLADE COUNT	DIAMETER	PITCH	NOTES
763300	Aluminum	3	14"	9"	General Purpose and Economy
763301	Aluminum	3	14"	11"	General Purpose and Economy
765181	Aluminum	3	13 3/4"	13"	General Purpose and Economy
765182	Aluminum	3	13 1/2"	15"	General Purpose and Economy
765183	Aluminum	3	13 1/4"	17"	General Purpose and Economy
765184	Aluminum	3	13.2"	19"	General Purpose and Economy
765185	Aluminum	3	13.2"	21"	General Purpose and Economy
I77201	Hydrus™ Aluminum	3	13 7/8"	9"	Pontoon boats, High Reverse Thrust
I77202	Hydrus™ Aluminum	3	13 7/8"	11"	Pontoon boats, High Reverse Thrust
I77203	Hydrus™ Aluminum	3	13 7/8"	13"	Pontoon boats, High Reverse Thrust
763957	SSP	3	13 3/4"	13"	Durability and General Purpose
763950	SSP	3	13 1/2"	15"	Durability and General Purpose
763951	SSP	3	13 1/4"	17"	Durability and General Purpose
763952	SSP	3	13"	19"	Durability and General Purpose
763929	Viper™	3	13 7/8"	15"	Swept blade design, General use, Bow Lifter
763930	Viper™	3	13 7/8"	17"	Swept blade design, General use, Bow Lifter
763931	Viper™	3	13 7/8"	19"	Swept blade design, General use, Bow Lifter
763932	Viper™	3	13 7/8"	21"	Swept blade design, General use, Bow Lifter
763953	Raker®	3	13 1/2"	18"	High Performance Bow Lifter
763954	Raker®	3	13 1/2"	20"	High Performance Bow Lifter
763956	Raker®	3	13 1/2"	24"	High Performance Bow Lifter
763964	Rogue™	4	13 1/2"	13"	Flat Boats and Runabouts
763965	Rogue™	4	13 1/4"	15"	Flat Boats and Runabouts
763966	Rogue™	4	13"	17"	Flat Boats and Runabouts
763967	Rogue™	4	13"	19"	Flat Boats and Runabouts
763968	Rogue™	4	13"	21"	Flat Boats and Runabouts

# QUICK REFERENCE GUIDE

## 150 - 300 HP EVINRUDE® E-TEC®, 25" MODELS - 90, 115, 130 EVINRUDE® E-TEC®

RIGHT HAND (STANDARD ROTATION)	LEFT HAND (COUNTER ROTATION)	MATERIAL/ FAMILY	BLADE COUNT	DIAMETER	PITCH	NOTES
767620		Aluminum	3	15 1/2"	11"	General Purpose and Economy
763453		Aluminum	3	15 1/2"	13"	General Purpose and Economy
765186		Aluminum	3	15"	15"	General Purpose and Economy
765187		Aluminum	3	14 7/8"	17"	General Purpose and Economy
765188		Aluminum	3	14 1/2"	19"	General Purpose and Economy
765189		Aluminum	3	14.3"	21"	General Purpose and Economy
763470		Aluminum	3	14 1/4"	23"	General Purpose and Economy
763959		SSP TBX™	3	15 5/8"	11"	Durability and General Purpose
763960	763961	SSP TBX™	3	15 5/8"	13"	Durability and General Purpose
763962	763963	SSP TBX™	3	15"	15"	Durability and General Purpose
763910	763911	Viper™ TBX™	3	15"	14"	All-around General Purpose, Bow Lifter
763912	763913	Viper™ TBX™	3	14 3/4"	16"	All-around General Purpose, Bow Lifter
763914	763915	Viper™ TBX™	3	14 3/4"	17"	All-around General Purpose, Bow Lifter
763916	763917	Viper™ TBX™	3	14 3/4"	18"	All-around General Purpose, Bow Lifter
763918	763919	Viper™ TBX™	3	14 3/4"	19"	All-around General Purpose, Bow Lifter
763920	763921	Viper™ TBX™	3	14 3/4"	20"	All-around General Purpose, Bow Lifter
763922	763923	Viper™ TBX™	3	14 1/2"	21"	All-around General Purpose, Bow Lifter
763924	763925	Viper™ TBX™	3	14 1/4"	22"	All-around General Purpose, Bow Lifter
763936	763937	Cyclone™ TBX™	4	14 1/2"	15"	Cruising and Transom Lift
763938	763939	Cyclone™ TBX™	4	14 1/4"	17"	Cruising and Transom Lift
763940	763941	Cyclone™ TBX™	4	14 1/8"	18"	Cruising and Transom Lift
763942	763943	Cyclone™ TBX™	4	14 1/8"	19"	Cruising and Transom Lift
763944	763945	Cyclone™ TBX™	4	14"	20"	Cruising and Transom Lift
763946	763947	Cyclone™ TBX™	4	14"	21"	Cruising and Transom Lift
763948	763949	Cyclone™ TBX™	4	14"	23"	Cruising and Transom Lift
177264		Raker II® TBX™	3	14 1/2"	22"	High Performance Bow Lifter
177265		Raker II® TBX™	3	14 1/2"	24"	High Performance Bow Lifter
177299		Raker II® TBX™	3	14 1/2"	25"	High Performance Bow Lifter
177266		Raker II® TBX™	3	14 1/2"	26"	High Performance Bow Lifter
177267		Raker II® TBX™	3	14 1/2"	28"	High Performance Bow Lifter
763984	763985	Rebel TBX™	3	15 3/4"	15"	Faster Cruising Speeds and Improved Fuel Economy
763986	763987	Rebel TBX™	3	15 1/2"	17"	Faster Cruising Speeds and Improved Fuel Economy
763988	763989	Rebel TBX™	3	15 3/8"	18"	Faster Cruising Speeds and Improved Fuel Economy
763990	763991	Rebel TBX™	3	15 1/4"	19"	Faster Cruising Speeds and Improved Fuel Economy
763992	763993	Rebel TBX™	3	15 1/8"	20"	Faster Cruising Speeds and Improved Fuel Economy
763994	763995	Rebel TBX™	3	15"	21"	Faster Cruising Speeds and Improved Fuel Economy
763996	763997	Rebel TBX™	3	14 7/8"	22"	Faster Cruising Speeds and Improved Fuel Economy
763998	763999	Rebel TBX™	3	14 3/4"	23"	Faster Cruising Speeds and Improved Fuel Economy
764000	764001	Rebel TBX™	3	14 1/2"	25"	Faster Cruising Speeds and Improved Fuel Economy
<b>RAKER II® NO VENT PORTS (NO TBX™ HUB KIT)</b>						
177333		Raker II®	3	14 1/2"	22"	Maximize speed & reduce acceleration ventilation
177334		Raker II®	3	14 1/2"	24"	Maximize speed & reduce acceleration ventilation
177335		Raker II®	3	14 1/2"	25"	Maximize speed & reduce acceleration ventilation
177336		Raker II®	3	14 1/2"	26"	Maximize speed & reduce acceleration ventilation
177337		Raker II®	3	14 1/2"	28"	Maximize speed & reduce acceleration ventilation
<b>RAKER® H.O. WITH VARIABLE VENT PORTS (NO TBX™ HUB)</b>						
177304		Raker® H.O.	3	14 1/2"	22"	Maximize speed and optimize acceleration
177305		Raker® H.O.	3	14 1/2"	24"	Maximize speed and optimize acceleration
177308		Raker® H.O.	3	14 1/2"	25"	Maximize speed and optimize acceleration
177306		Raker® H.O.	3	14 1/2"	26"	Maximize speed and optimize acceleration
177307		Raker® H.O.	3	14 1/2"	28"	Maximize speed and optimize acceleration
<b>RX4™ WITH VARIABLE VENT PORTS (NO TBX™ HUB)</b>						
177320	177321	Rx4™	4	15"	18"	For optimal mid-range fuel economy, roughwater bite and bow lift - offshore, inshore, pontoon, runabouts
177322	177323	Rx4™	4	15"	20"	
177324	177325	Rx4™	4	15"	22"	
177326	177327	Rx4™	4	15"	24"	
177328		Rx4™	4	15"	25"	
177330		Rx4™	4	15"	26"	



# THE WORLD IS OUR PLAYGROUND

Nothing is more valuable than your playtime. That is why BRP is dedicated to continually finding new and better ways to help you enjoy your favorite power sports. From snow to water to both on- and off-road fun, our passion for adventure fuels the innovations that result in the ultimate power sports experience for our customers. We value



the land and water we play on and are committed to protecting it. Our desire to thrill is paired with an emphasis on rider responsibility, placing personal safety above all else. So that each outing can be the most enjoyable, memorable and thrilling experience possible. Because your free time should always be your best time.

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