

# **WANAHA**





## **PROTECTION PLUS**

Now Yamaha outboard customers can have the ultimate in product protection and peace of mind. Yamaha Motor is the only engine manufacturer in Australia with the resources to offer their customers such a comprehensive package of marine products. Our new Protection Plus program delivers the ultimate in warranty protection, insurance coverage, theft deterrent and service protection making our our nation wide network of quality dealers a one stop shop for all you boating needs.

## YAMAHA ESP PROGRAM

Ensuring your new outboard investment performs at its peak, Yamaha has introduced a specialised outboard service package for new Yamaha engines called Yamaha



Extended Service Protection (E.S.P.) program. Developed specifically for new 4-stroke outboard models from F50 – F350 and 2-stroke models from 90A - Z200, Yamaha's E.S.P. program is designed to save you money on servicing. When purchasing a new Yamaha 4-stroke outboard (F50-F350), you have the opportunity to purchase a prepaid fixed price 4 year Yamaha E.S.P. program or a 3 year program for 2-stroke models (90A-Z200), saving you money on total service cost and protecting your investment.

As a Yamaha customer, you also have the advantage of rolling the Yamaha E.S.P. program investment into a Yamaha Motor Finance (YMF) Ioan facility when taking YMF finance on a new rig.

## YAMAHA MARINE INSURANCE

Yamaha Marine

insurance is the only factory backed insurance available on the market. Because we are marine specialists we understand how important your Yamaha powered rig is to you and offer a range of benefits not available anywhere else.

Only genuine Yamaha parts used on repairs.

No theft excess when protected with Data Dot anti theft technology.

Replacement of boat and Waverunner in first 12 months of registration.

New for old on mechanical and electrical components of motors regardless of age.

Premium discounts for age, boating experience and boating courses.

## DATADOTDNA THEFT PROTECTION

Your new Yamaha outboard motor is now protected by DataDotDNA, an exclusive identification system that applies microdots to various components on your outboard.



You can achieve a better deal on your insurance while promoting a significant deterrent to thieves.

Additional DataDotDNA kits can be applied by your Yamaha dealer to other valued items including boat, trailer and electronic equipment. DataDotDNA warning decals are placed on items protected, alerting potential thieves that the unit is 'Protected by DataDotDNA'.

In the event of your equipment being stolen and then recovered, Police can cross reference the PIN number of any micro dotted part with the HIN or serial number of that unit.



## YAMAHA WARRANTY

When you invest in your boating pleasure, you need to be assured that you new outboard is fully backed by the manufacturer. Yamaha's warranty program delivers absolute peace of mind.

Yamaha's extended warranty product support program covers all outboard engines in the Yamaha range, all at no additional cost to the customer.

Customers who purchase a Yamaha 2 stroke models (including the High Pressure Direct Injection VMAX models) are now backed with a full three year warranty.

All four stroke models have a four year warranty.

There is absolutely no additional cost to the customer for the extended warranty. The standard warranty is extended simply by customers having their Yamaha engine regularly serviced by an authorised Yamaha dealer – it's that simple!

(conditions apply)

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# Y Wait?

Now that you have decided on your purchase the next question is how to best pay for it. The answer is with the help of Yamaha Motor Finance (YMF).

## WHO IS YMF?

YMF is Australia's only manufacturer owned lender specialising in the marine industry. This combination gives us an understanding of the market place, our customers, their wants and needs.

## WHY PAY CASH?

Of course, you may be in a position to consider buying your new purchase outright. But that means tying up money that you could probably use more effectively elsewhere.

If you are considering other options such as using the equity in your home YMF has put together some information to assist you with your decision, refer to your dealer for information on "Why a Cheap Interest Rate can cost you a whole lot more".

### WHAT MAKES YMF A SENSIBLE CHOICE?

**Convenience** – Why run around town to organise your finance and insurance needs when your Yamaha dealer can do all of this at the one point & time. Depending on your circumstances Yamaha dealers can provide an answer to your application within minutes, getting you into the package you want sooner.

**Repayments** – Talk to your dealer about what repayments suit your needs. YMF will fix these for up to 5 years therefore protecting you against any interest rate increases. For eligible customers we can offer a balloon at the end of the term that will reduce your repayments. YMF YAMAHA MOTOR FINANCE

**Credit Rating** – If you are looking to establish your credit history YMF can assist. Unlike banking institutions YMF with your permission will provide a reference when seeking finance for other products or services.

Self Employed Applicants – Recognising the needs of our self employed applicants YMF has developed a "Low Doc" Ioan. Ask your dealer for more details.

**Future Benefits** – As a manufacturer backed lender you may be eligible for special discounts and offers that are exclusive to you as a customer of both Yamaha Motor Australia and YMF.

We look forward to sharing in the excitement of your new purchase. If you have any further questions do not hesitate to contact your nearest Yamaha dealer or YMF on 1800 777 123.



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# 4 Performance & Reliability

# THE YAMAHA DIFFERENCE

All Yamaha outboards offer exciting and exclusive features which set them apart from other brands. These have helped create the unique Yamaha reputation for user-friendly performance and reliability. Whether it be 2 Stroke or 4 Stroke, Yamaha's motors are at the pinnacle of innovation and technology.

Whilst it is impossible to list them all, particularly in the detail required for the more technically advanced or specialist engine types, this section offers a brief summary of the more important and helpful features to be found on most Yamaha outboards. They are the sort of features which make the Yamaha Difference!

To see whether your chosen model includes a particular feature, please refer to the individual engine page or the specification charts at the back.



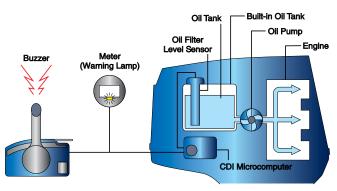
## PRECISION

## PRECISION BLEND™ OIL INJECTION SYSTEM

STANDARD ON ALL 2-STROKE 30DETOL & ABOVE

A unique operating advantage that's available on Yamaha 2-stroke models (not CV) 30 DETOL and higher. The Precision Blend<sup>™</sup> system not only eliminates the need to pre-mix oil and fuel, but reduces running and maintenance cost by more efficient control of the oil/fuel mix during combustion.

The oil pump responds to both throttle opening and engine rpm, to inject the precise amount of oil required for all running conditions. And Multipoint<sup>™</sup> means exactly what it says ~ the unique Yamaha system injects the oil at multiple points directly into the manifold, AFTER the fuel has passed the carburettor. This is a cleaner, more efficient mixing system that prevents any clogging or oil build-up.



## MICRO-COMPUTER ECM (ENGINE CONTROL MODULE) STANDARD ON VMAX MODELS AND 4-STROKE MODELS 6HP AND ABOVE

The ECM is a very sophisticated, yet reliable micro-computer which is the 'brain' behind so many of the functions that make Yamaha such a reliable, user-friendly outboard.

In fact, the ECM monitors and controls a variety of functions and features, depending on the model, and is responsible for everything from running the ignition timing and controlling PrimeStart<sup>™</sup>, to activating the many warning and protection systems that look after the engine and the user. In reality, it is almost the 'heart' of a Yamaha as well as the 'brain'.

On all EFI 4-stroke models from F50 upwards, and all VMAX models, a simple connection to a laptop computer by your Yamaha Technician, allows instant engine diagnosis. Now that's modern technology at work!

- Constant monitoring of all data inputs and settings
- Maintains smooth running, trouble-free performance
- Advanced software optimizes
   ignition timing in all conditions
- Monitors and activates warning and protection systems
- Computer engine diagnosis on all EFI 4-stroke models 50hp and above, plus all HPDI models

## **PRIMESTART**™

Exclusive to Yamaha, the PrimeStart<sup>™</sup> Auto-choke feature is standard on many models. As easy as starting your car, it enables the driver to start an

engine from cold by simply turning the key! The system eliminates the need for a conventional choke and controls the 'warming up' process automatically. So there's no longer any need to 'warm up' by revving the engine in neutral.



Control Module

## COUNTER-ROTATING PROPELLER MODELS

FL115 • FL150 • FL200 • FL225 • FL250 • FL300 FL350 • L200 • ZL200

A standard twin engine installation (with both propellers turning clockwise) will always 'pull' the boat towards the port side, making it more difficult to steer, especially at higher speeds. To solve this problem, Yamaha offers certain models with a counter-rotating propeller, which when fitted alongside a standard model, delivers perfect 'neutral helm' steering control.

Yamaha's extensive range of propellers have been developed and refined to most efficiently exploit the power of your motor to achieve maximum performance and economy. Your Yamaha dealer will help you choose the propeller that best suits your engine demands.



# Durability & Innovation 5

# FUNCTIONALITY

## WARNING SYSTEMS FOR ENGINE PROTECTION & SAFETY

Depending on the model, Yamaha outboards feature comprehensive monitoring of major functions, such as oil level, engine overheat and over-rev. There are various warning devices fitted to alert the user, including cowling-mounted lamps, instrument lamps and buzzers.

In the unlikely event of a problem, the system will

automatically reduce the available engine rpm, providing maximum protection for the engine while the fault exists, and allowing the best opportunity to get the boat back to shore without damage.

Buzzer

Low oil pressure

Warning lamp

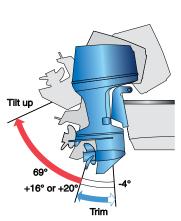
Overheat

Warning lamp

## WIDE RANGE POWER TRIM & TILT STANDARD (OR AVAILABLE AS

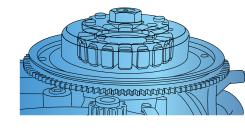
#### OPTION) ON MOST MODELS 25HP AND ABOVE

Yamaha's compact and light, yet powerful PT & T system is the envy of the industry. Quick response from the convenient push-button control makes trim and tilt very smooth and easy, and the  $-4^{\circ}$  to



16° position range enables the driver to get the best possible performance from the hull in all conditions. The negative trim setting (-4°) improves acceleration and brings the boat onto the plane more quickly.

## HIGH-OUTPUT ALTERNATORS

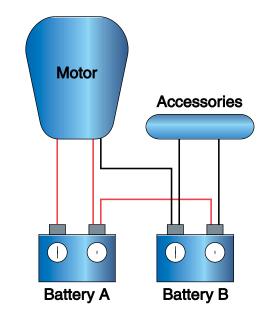


a high-output alternator to ensure that plenty of power is always available to start the engine, even after prolonged periods of idling, or using multiple accessories when running at low revs.

# DUAL BATTERY CHARGING SYSTEM

## STANDARD ON ALL YAMAHA MODELS 150HP AND ABOVE

Two batteries are charged at the same time. This ensures that there is plenty of power available for starting the engine, even after long periods of trolling at low revs. Just add the extra wiring for this feature



## DURABILITY



STANDARD ON

MOST YAMAHA

Compared with

most competitive

models. Yamaha

engines have

MODELS

SPECIAL ALUMINIUM ALLOY YDC-30

Developed for major exterior parts of the motors after years of research and testing, YDC-30 offers truly superior anticorrosion properties. (Used on 9.9hp and above).

## SELF-SACRIFICING ANODES



Yamaha uses strategically placed aluminium and zinc anodes for maximum corrosion protection. These anodes are even larger than necessary, ensuring total effectiveness.

## HIGH QUALITY STAINLESS STEEL

Extensive use of high quality steel is made in all Yamaha outboards for top durability where it counts.



## 5-STAGE MULTIPLE COATING



The exterior finish consists of five thick coats: two epoxy primer layers, two acrylic-resin layers and finally an extra clear acrylic-urethane coat for perfect protection.

## FRESHWATER FLUSHING DEVICE

With Yamaha's Freshwater Flushing Device it is possible to connect a hose directly to the motor and give it a complete internal flushing after use, thus providing additional protection against corrosion.



(Standard on selected models).

## SPECIAL ZINC COATING



This zinc coating is very effective in protecting parts against corrosion while also serving as a subanode to back up the main anodes.



F300 - F350









Yamaha is the master of big power 4-stroke outboards. Since entering the 4-stroke market in 1986 with the F9.9A model, Yamaha leads the pack once again with the launch of the landmark F350A, the world's most powerful outboard engine and also the world's first production V-8 4-stroke outboard.

Such was the global success and acceptance of the 350hp mega outboard, Yamaha then backed this feat with the launch of the F300.

The V8 duo represents an absolute power house of marine propulsion. At last there is a serious and viable alternative to sterndrive engines. The Yamaha alternative has a far superior power to weight ratio, ensuring that you win with superior performance and better economy.



The Yamaha F350 qualifies as a 3-star rating under the 2009 emissions standards of the California Air Resources Board (CARB) and a 3-star rating under the Australian OEDA system.

## **NEW DESIGN PROP**

Saltwater series, large diameter XL propellers have been specifically developed for the F350 to produce optimum thrust.

_		- 0				FL300AT	
-	EATUR	ES	E E E	ี มี	Ê	Ę	
	Operation	Tiller Handle					
	Method L	Remote control	•	٠	٠	٠	
	г	Pre-mix					
	Lubrication	Oil Injection					
	L	Wet-sump	•	٠	٠	٠	
	Starting $_{\Box}$	Manual					
	System L	Electric	•	ullet	٠	٠	
	г	Manual tilt					
	Trim & Tilt	Hydro tilt					
	Method	Power trim & tilt					
	L	Wide range power trim & tilt	•	٠	•	۲	
		Rectifier					
	Rectifier	Rectifier regulator	•	ullet	٠	٠	
		Prime start <sup>™</sup>	•	ullet	٠	٠	
•	Standard	Engine stop switch lanyard					
	equipment	Shallow water drive	•	۲	•	٠	
	Standard on the remote control box	Alternator (A)	50A	50A	50A	50A	
_	Standard in the	Start-in-gear prevention					
×	digital tachometer	Overheat warning	•	٠	٠	٠	
	Light coll only	Over-revolution prevention	•	٠	٠	٠	
	(Optional rectifier required for battery	Remote control box		ullet		٠	
	charging)	Speedometer	D		D		
٠	Splash lubrication	Tachometer	D	D	D	D	
	system	Trim meter	*	$\star$	$\star$	$\star$	
D	Digital meter	Fuel management gauge	•		٠		
s	Stainless steel	Propeller					
в	Bullt-In	Fuel Tank (lit)					
DT	Dual thrust	Emergency starter rope					ľ



# EVERY INDUSTRY HAS A LEADER

Yamaha has met the demand for higher powered outboards. Fewer outboard units on the transom boasting larger power output in turn delivers greater propulsion efficiency, less fuel and lower noise. There is also less weight on the transom, less mounting space, simpler rigging and ultimately easier and better handing.

The Yamaha F350A / F300A powerhead is an absolute work of art. The large displacement 4-stroke engine is based on a 32 valve, DOHC 60° V8 cylinder block. This outboard is packed with features that combine to deliver strong mid to low speed torque and power, such as:

- · A sequential multi-point electronic fuel injection system
- An electronic throttle with pulse tuned long intake manifold
- Variable camshaft timing (VCT) that optimizes performance by adjusting the opening and closing of the intake valves according to load
- An in-bank dual exhaust with power surge chamber to increase exhaust efficiency

Low noise, low vibration, low emissions – the Yamaha F350A / F300A delivers on all counts. This engine is inherently quiet due to it being built to strict manufacturing tolerances which include a superior level of balance. Operational noise levels are roughly equivalent to that of a Yamaha 250hp outboard despite being 60% larger in displacement and outputting 40% more horsepower.

For installations that require multiple engine installations, the F350A / F300A is the ultimate in high technology and rigging sophistication. Models are available in both 25 and 30 inch transom heights with both left and right hand propeller rotation.

The remote control system at the helm incorporates a newly designed electronic gear shift and throttle mechanism. Yamaha's 'drive by wire' technology delivers smooth throttle operation while the shift mechanism provides sure, highly reliable shifting. The controls include a multi-engine synchronisation function that ensures outstanding synchronised – rpm performance across two or three Yamaha engines for more efficient thrust and speed.

## UNRIVALLED DURABILITY

An oversized outboard mounting bracket on the F350A / F300A provides ample strength to help protect the outboard from the harsh shocks experienced in rough waters offshore.

The lower unit features extra large bearings and stronger gears for rugged offshore boating.

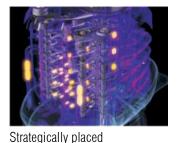
Yamaha's exclusive water draining system inside the F350A / F300A cowling quickly drains away any errant seawater that may find its way inside, protecting the engine from corrosion.

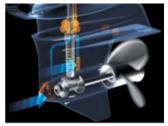
## SUPERIOR RELIABILITY

Advanced on-board electronic systems deliver the optimum in reliability, ease of servicing and operation. The tilt angle adjusting mechanism allows pre-setting of the tilt angle for mooring or trailering so that the engine does not strike the motor well.

The Yamaha Diagnostic System (YDIS) provides Yamaha factory trained service technicians at your dealership, with information about the conditions and history of engine operation. Easier diagnosis and servicing is available through the YDIS with the engine connected to a laptop computer.

And in the unlikely event of a malfunction while at sea, the on board failsafe system automatically reduces engine operation rpm to a safe level to deliver enough power to come home safely.





PRODUCTION 4-STROKE V8 OUTBOARD

WORLD'S

Duel water inlets

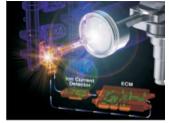


multi - anodes

VCT (variable camshaft timing)



In-bank duel exhaust / Power surge chamber



lon sensor combustion control



4 - Stroke V8 60 DOHC 32 - valve

# F300 - F350 **10**





# **12** F100 - F250

YAMAHA

FOUT STOLE

# TOP OF THE RANGE 4 STROKES

Through the 4-stroke range, Yamaha has an enviable history of delivering plenty of model choice with strong reliable power. When released, the Yamaha F225A and its sibling the F200A, broke new ground. Weighing in at just 10% more than 2-strokes of the same class, these motors mounted beautifully on boats designed for that power rating.

This towering achievement was soon backed up by the release of the F150A, a 4-stroke model that has proven to be one of the most popular 4-stroke engines the world over. This is one of the most advanced and superbly packaged 4-stroke outboards ever. This superb 16-valve DOHC engine neatly filled the gap between our mighty V-6 4-strokes and the class-leading F115A, while weighing no more than the 150hp 2-stroke.

The Yamaha F250B powerhouse is one of the quietest, most advanced and most fuel efficient 4-stroke outboards in the world today. Our new F250B features drive-by wire controls and an optional four blade propeller. With a big V6 block boasting four valves per cylinder and Variable Camshaft Timing, the F250B delivers unrelenting torque across the entire rev range. The electronically controlled Single Throttle Valve System enables precise air intake control for greater combustion while lightweight forged pistons, refined single-belt camshaft drive system and high output alternator make the F250B a truly dependable force on the water.

Electronic Fuel Injection (EFI) is a hallmark of Yamaha 4-stroke models, available 50hp through to 350hp. The F80B and F100D deliver advanced EFI power and performance at a weight less than previous carburettor models.

Every single one of our 16-valve DOHC engines now utilizes electronic fuel injection for crisp, consistent performance, with unprecedented quietness, clean emissions and fuel economy. On all our large 4-stroke models, expect outstanding power-to-weight performance, compact size and masses of torque. With Yamaha's top of the range 4-stroke outboards, you get big power on demand.

# F100 - F250 13



F250BET

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FEATURES

Operation Method

Lubrication

Starting

System

Trim & Tilt Method

Rectifier

 Standard equipment
 Standard on the

remote control b

Standard In the digital tachometer

Light coll only (Optional rectif required for bat charging)

Splash lubrication

system

B Built-in

DT Dual thrust

D Digital mete

S Stainless steel

Tiller Handle

Wet-sump

Manual

Electric Manual tilt Hydro tilt

Rectifier

Remote control Pre-mix Oil Injection

Power trim & tilt

Rectifier regulator Prime start<sup>™</sup>

Alternator (A)

Tachometer

Trim meter

Fuel Tank (lit)

Propeller

Overheat warning

Wide range power trim & tilt

Engine stop switch lanyard Shallow water drive

Start-in-gear prevention

Over-revolution prevention Remote control box Speedometer

Fuel management gauge

Emergency starter rope

rzz5AET FL225AET F200AET

F1200AET F1200AET F150AET F1150AET F115AET F115AET F115AET F100DET

46A 46A 45A 45A 45A 45A 35A 35A 25A 25A 25A

DD

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DDD

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NEW	250 MAHA 225	NAMAHA 200	YAMAHA BA	DIC	TAL GAUGE STANDARD
250HP F250BET FL250BET	F225AET	200HP F200AET FL200AET	150HP F150AET FL150AET	115AET F115AET FL115AET	100HP F100DET

LAN GAUGE SYSTEM STANDARD INCLUDING FUEL MANAGEMENT

# **14** F30 - F80

# MID RANGE 4 STROKES



Whilst Yamaha's midrange 4-stroke motors are light in weight, you can rest assured that this characteristic doesn't extend to their performance - far from it.

Whether you are fishing a tranquil lake or enjoying a weekend cruising, these engines are a delight to use. The Yamaha midrange 4-strokes - already universally praised - are now, more than ever, becoming the power of choice for boaters who won't accept anything but the finest in outboard power and technology. Following the recent introduction of multipoint electronic fuel injection on the F50F, F60C and FT60D, these midrange dynamos have firmly stamped their authority in this outboard class. The silky smooth SOHC 8-valve in-line four, power unit not only clears US EPA 2006 emission standards, but the stringent CARB 2008 regulations as well.

Models F40B and F30A utilize a SOHC 6-valve, in-line 3-cylinder power unit. Despite light, compact packaging and a 40hp with the smallest displacement in its class at 747cc, nothing is sacrificed in the performance department. With both models incorporate a long-tube silencer, Microcomputer Control and Precise-Setting Carburettors, exceptional power delivery is assured.



# F30 - F80 **15**







FEATUR	ES	F80PE	Fence	F60CELL	FTGODE	F50FET	FSOFE	F40RET	F40BW	F40BMIL	F30AET	F30AEHT	ī
Operation	Tiller Handle						۲		٠	۲		۲	
Method L	Remote control	۲	٠		•	۲		۲			٠		
Г	Pre-mix												
Lubrication	Oil Injection												
L	Wet-sump	•	٠	•	•	٠	۲	۲	٠	•	•	٠	
Starting	Manual								•	•			
System L	Electric	•	•	•	•	٠	•	•	•	•	•	•	
Г	Manual tilt												
Trim & Tilt	Hydro tilt									•			
Method	Power trim & tilt							_					
L.	Wide range power trim & tilt	•	•	•	•	•	•	•	•		•	•	
Rectifier	Rectifier				_								
	Rectifier regulator	•	•	•	•	•	•	•	•	•	•	•	
Standard equipment	Prime start <sup>™</sup>	•	-	•	2	•	•	•	•	•	-	•	
Standard on the	Engine stop switch lanyard			•	-		•		•	•			
remote control box	Shallow water drive	•	•	•	•	•	•	•	•	•	•	•	
🛨 Standard in the	Alternator (A)	25A	17A	17A	1/A	17A	17A	15A	15A	15A	15A	15A	
Gigital tachometer	Start-in-gear prevention			•					•	•			
* Light coll only (Optional rectifier	Overheat warning	•		•	-	•		•		•	-	•	
required for battery charging)	Over-revolution prevention			•	-	•	•		•	•		•	
Splash lubrication	Remote control box		D			D		•			•		
system	Speedometer	D	D		D	-		-					
D Digital meter	Tachometer	D						D					
S Stainless steel	Trim meter	*	*		*	×		×					
B Built-in	Propeller Fuel Tank (lit)	S	24	24	24	24	24	24	24	24	24	24	
DT Dual thrust			24	24	24	24	24	24	24	24	24	24	
	Emergency starter rope	•	-		-		-				-		



DIGITAL GAUGE STANDARD ON FWD CONTROL MODEL

# **16** F2.5 - F25

# PORTABLE 4 STROKES



The recent launch of Yamaha's F9.9 model proves that 4-strokes can be both compact and lightweight. Based on the current Yamaha F8C model, the new F9.9 is one of the smallest and lightest outboards in the 4-stroke 9.9hp category and almost the same size as the corresponding 2-stroke.

The new Yamaha F9.9hp engine is available in two versions, the F9.9F standard version and the FT9.9G high thrust version. The high thrust model with a lower gear ratio and dual thrust prop delivers excellent thrust and stopping power to control heavy boats. Model variants include two different tiller handles, high output alternator, power tilt, electric starting and of course different transom heights.

Across the range of Yamaha 4-stroke portable outboards, you'll find a wide array of distinctive models with features like Power Trim and Tilt on the F25A and F9.9F. High Thrust drive is offered on the FT25B, FT9.9G and FT8D for maximum thrust in either forward or reverse when powering heavy loads, or for use as a sailboat auxiliary. Yamaha recently introduced two new portable 4-stroke models with the innovative F20B and F15C outboards. Sharing the same 362cc, SOHC, 2 cylinder engine block, both of these Yamaha models utilise CDI microprocessor ignition while offering manual or electric start.

Punching well above its weight, the Yamaha F15C has excellent low down torque from a lightweight powerhead. The Yamaha F20B offers the option of Power Tilt delivering 20hp from an exceptional maximum rev range of 5000 to 6000rpm.

Our F4A with its user-friendly, multi-purpose handles front and rear makes short work of carrying, mounting and operating this outboard. Rounding out the stable is the F2.5A - truly a "mighty mite". This is Yamaha's smallest 4-stroke and sports a very compact design. It uses a single cylinder, liquid-cooled, OHV power unit of 72cm that's specifically designed for marine use.



# F2.5 - F25 **17**







FEATURES
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FEATUR	ES	2507-	25AC	F25AML	20BED	20RE	20 BM	15CMI.	9.9FML		4AMH	2.5AMH
Operation _	Tiller Handle	Ľ			ш.					•		•
Method	Remote control	i.	Ť	-	•	•	Ť	Ĩ	-	•	-	-
-	Pre-mix											
Lubrication	Oil Injection	i										
L	Wet-sump	i •	•	•	•	•	•	•		•	٠	•
Starting _	Manual	i i		$\bullet$			•	•		•	٠	•
System L	Electric	İ.	٠		•	•			٠			
г	Manual tilt	Í		$\bullet$			۲	•	۲	•	٠	•
Trim & Tilt	Hydro tilt											
Method	Power tilt					٠						
L	Wide range power trim & tilt	•	۲									
Rectifier	Rectifier											
	Rectifier regulator	•	٠		•	•						
Standard	Prime start <sup>™</sup>	•	۲	•	۲	•	•					
equipment	Engine stop switch lanyard		٠	•		•	•	•	٠	•	٠	•
Standard on the remote control box	Shallow water drive	•	•		•	•	•	•	٠	•	٠	
🛨 Standard in the	Alternator (A)	15A	15A	80Ŵ	10A	10A	120Ŵ	120Ŵ	6A	6A		
digital tachometer	Start-in-gear prevention		•	•		•	•	•	•	•	•	
* Light coil only (Optional rectifier	Overheat warning	•	•	•	•	•	•	•				
required for battery	Over-revolution prevention	•	•	•	•	•	•	•	•	•		
charging)	Remote control box	•			•							
Splash lubrication system	Speedometer											
D Digital meter	Tachometer											
S Stainless steel	Trim meter						•					_
B Built-in			•	•	•		•	•	•	•	•	-
DT Dual thrust	Fuel Tank (lit)	24	24	24	24	24	24	12	12	12	В	в
D   Data an dat	Emergency starter rope		•	•		•	•		•	•	•	



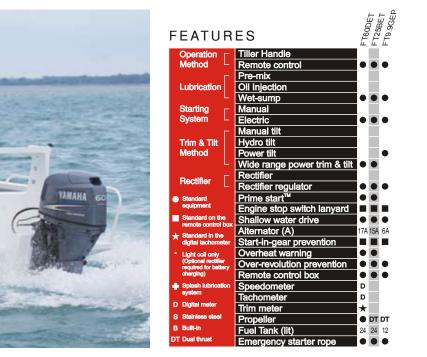
# 18 High Thrust 4 - Strokes

YAMAHA

FOUT STOKE

60

# HIGH THRUST 4 STROKES



When you need power, driving force and manoeuvrability, rather than out-andout speed, these special FT High Thrust models are the perfect answer.

Delstan

MALICAR

These are all special versions of our latest-technology 4-stroke engines, setting new standards in performance, and at the same time reducing noise, vibration and fuel consumption to unprecedented levels.

For displacement boats, sailboats, fishing and work boats, there simply couldn't be a better choice. Yamaha's patented Dual-Thrust propeller fitted standard on the FT9.9G and FT25 provides full thrust in both forward and reverse. When compared to conventional models, this feature allows effortless manoeuvrability with impressive power against the current or wind in those difficult docking situations. On the FT60 a large diameter propeller and low gear ratio are used with similar effect and for super heavy applications the Dual-Thrust propeller can be fitted as an option.

The FT60 features the latest-technology Yamaha EFI system, for clean, economical and reliable performance. Another special benefit is the high-output charging system, designed to keep batteries topped up even on long, leisurely cruising or fishing trips, when the engine often operates at low rpm for extended periods.



# Yamaha In Action 19

# Yamaha In Action

Down in the deep south of Tasmania, the sea water is cold but pristine. It's the ideal location to commercially farm salmon and it is the place where Huon Aquaculture grow salmon year round.

Indeed every year Huon Aquaculture harvests around 10,000 tonnes of commercial salmon. This is a substantial operation and one that is powered exclusively by Yamaha 4 stroke outboard engines.

The cool water temperatures, good tidal flow and protected clean waters is the work environment that is paramount to the successful breeding and growth of salmon. Nothing but the cleanest most reliable outboard engines can be accepted into this unspoilt environment.

Huon Aquaculture has been using Yamaha outboards for the past ten years, and for the past seven Yamaha has been their exclusive choice. Today, Huon Aquaculture has almost 60 Yamaha 4 Stroke engines in work. These include FT60, F80, F100 F115, F225 and thr F250 models with all engines operated under a Commercial Operating Lease (with full maintenance) backed by YMF. Since making the change from 2 stroke to 4 stroke a few years back, Huon Aquaculture slashed their fuel bill in half. They also boosted reliability with the engines being asked to perform day after day with constant gear changing.

Typically most of the Yamaha engines will log between 2000 hours and 3000 hours of operating time each year. In this situation there are no compromises with reliability nor durability. The health of the salmon depend on clean Yamaha power and the 350 employees at Huon Aquaculture who go to sea with Yamaha, equally depend on their engines for a safe work environment.

Tough and demanding professionals users are no different to vital emergency services or leisure boaters. They are all equally fiercely loyal Yamaha customers who have the first hand experience of Yamaha's legendary turnkey reliability.



# **Customer Satisfaction**



Yamaha has ranked highest in customer satisfaction for Electronic Fuel Injected (EFI) 4-stroke outboards in the J.D. Power and Associates 2008 Marine Engine Competitive Information Study.

Performing superbly in the engine reliability category, Yamaha out-scored rival 4-stroke brands in a US study based on 9,718 owners.

This stunning customer satisfaction result for Yamaha caps off an impressive run of achievements by an outboard manufacturer with Yamaha also winning its sixth consecutive Customer Satisfaction Index (CSI) from the National Marine Manufacturing Association (NMMA®).

The results of the 2008 Marine Engine Competitive Information study are based on customer satisfaction index scores across seven categories. These are starting ease, quietness at cruise, reliability, fuel economy, shifting smoothness, lack of exhaust fumes and ability of boat to accelerate rapidly.

Yamaha has been recognised by J.D Power and Associates for the last 5 years and we attribute this result to our ongoing investment in customer service infrastructure and programs.

At Yamaha and on a global basis, we take immense pride in our outboard products and the quality of the dealer network. The exact principals of customer service that underscore Yamaha's achievement in the US are equally applied to the local market.

Yamaha has a stated goal to continue to provide marine products that exceed the expectations of our customers. This is achieved by building the highest quality product, providing a comprehensive network of dealers to support these products, and be there to support our customers with all of their needs.

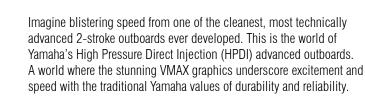
This is a philosophy that serves both Yamaha and Yamaha customers well.

# **20** HPDI VMAX 150 - 200

200

VAMAHA

# TOP OF THE RANGE HPDI 2 STROKES



Yamaha delivers a whole world of water-borne excitement and comfort with radical but dependable and proven technology.

The Yamaha-exclusive HPDI system on the sporty, high-performance VMAX models covers the Z200, Z175 and Z150 power brackets. These smooth, swift V6 models define a new breed of advanced 2-stroke technology that easily clears strict emission standards without sacrificing any of the adrenalin pumping performance you demand from an outboard.

This revolutionary fuel injection system dramatically boosts combustion efficiency and greatly cuts fuel consumption – you benefit with ultra-fast starts, crisp throttle response, low emissions and superb fuel economy. Our digital network gauges with comprehensive warning systems monitor all vital engine functions to keep you in charge and trouble-free all the way.



# HPDI VMAX 150 - 200 21





### FEATURES

				ρ	e Fii i	ρļ	0
F١	EATUR	ES	ZZODNIE		217505		
	Operation	Tiller Handle					
	Method L	Remote control	٠	۲	۲	۲	
	Г	Pre-mix					
	Lubrication	Oil Injection	•	۲	•	۲	
	L	Wet-sump					
	Starting <sub>Г</sub>	Manual					
	System ∟	Electric	٠	۲	۲	۲	
	Г	Manual tilt					
	Trim & Tilt	Hydro tilt					
	Method	Power trim & tilt					
	L	Wide range power trim & tilt	٠		•		
	Rectifier	Rectifier					
		Rectifier regulator	٠	٠	•	٠	
		Prime start <sup>™</sup>	٠	٠	•	٠	
•	Standard	Engine stop switch lanyard					
_	equipment	Shallow water drive	٠	۲	•	۲	
	Standard on the remote control box	Alternator (A)	45A	45A	45A	45A	
4	Standard in the	Start-in-gear prevention					
	digital tachometer	Overheat warning	٠		•	۲	
	Light coil only	Over-revolution prevention	۰		•	۲	
	(Optional rectifier required for battery	Remote control box		٠			
	charging)	Speedometer	D		D	D	
٠	Splash lubrication system	Tachometer	D	D	D	D	
	Digital meter	Trim meter	*	*	*	$\star$	
2		Fuel management gauge	٠		•	٠	
5	Stainless steel	Propeller	s	s	s	S	
в	Built-in	Fuel Tank (lit)	٠		•	٠	
DT	Dual thrust	Emergency starter rope	•	•	•		









Z150PETO



# 22 2 - Stroke 115HP - 200HP

# TOP OF THE RANGE V6 & V4 2 STROKES



Here is pure performance that doesn't quit, whether powering through open water or on a leisurely spin around the bay.

From our proven, trusted 200hp V-6 to the compact yet powerful 115hp V-4, these Saltwater models are all about no-nonsense technology and performance. The lightning starts and quick throttle response are trademarks of these models and are all part of the Yamaha birthright. Loop charging boosts both power and fuel efficiency, while our Precision Blend<sup>™</sup> Oil Injection guarantees smooth running durability.

@ 600LWACRAFT

And the high-tech list goes on, with microcomputer-controlled ignition for optimum running performance, Yamaha's multi-function gauges and a warning system that monitors all vital engine functions to keep you care-free whenever the water beckons.

Delivering all the best attributes of lightweight 2-stroke power, our V-6 and V-4 models deliver the best power to weight performance imaginable. Experience rapid acceleration with the wind in your hair with proven Yamaha power on the transom.

# 2 - Stroke 115HP - 200HP 23



FEATURES

Pre-mix

Electric

Rectifier

Propeller

Manual tilt Hydro tilt

Operation Method

Lubrication

Trim & Tilt Method

Rectifier

equipmen Standard on th remote contro dard in the digital ta Light coil on

Standard

8V8

B Built-in

DT Dual thrust

D Digital me

S Stainless stee

Starting

System



## 24 Mid Range 2 - Strokes 30HP - 90HP

90

YAMAHA

# MID RANGE 2 STROKES

Wherever and whenever people take to the water for fun and leisure, Yamaha has long been the name to trust. Spirited power throughout the entire speed range delivers sharp response all along the way. Here is the perfect companion to power your aluminium hull or inflatable boat.

Yamaha's legendary two stroke mid range has introduced countless thousands of families to boating for the first time. They have experienced the comfort of Yamaha reliability with instant turn key starts every time and when it has come time to move up to a bigger boat, Yamaha's top re-sale value is a proven winner. Now our midrange series is better than ever, with models to suit a diverse range of uses. And that means there's sure to be one that suits you. Power comes from Yamaha's proven 3-cylinder engines with the winning combination of loop charging and pulse tuning that delivers outstanding fuel economy and smooth, responsive acceleration.

And our Oil Injection System constantly monitors engine load to inject just the right amount of oil, so there's no need to mess with premixed oil and petrol. Additionally, with the Microcomputer Ignition System that's standard on the larger models, you can rest assured that your engine is always in optimum tune and delivering optimum fuel efficiency.



# Mid Range 2 - Strokes 30HP - 90HP 25





										0			
		Ê			2								F
FEATUR	ES	90AF	70BF	60FF	20H	50W	50H	40VF	40	40/1	300	30DMH	
Operation	Tiller Handle					•	٠		٠	٠		•	
Method L	Remote control	•	•	•	•			•			•		
F	Pre-mix					-	•	_		•	-	•	
Lubrication	Oil Injection	•	•	•	•	•		•	•		•		
Starting -	Wet-sump Manual												
System					•		•	•			•		
-,	Manual tilt	Ĭ	Ť		Ť			Ĩ	Ť		-	•	
Trim & Tilt	Hydro tilt						•			•			
Method	Power trim & tilt					•							
L	Wide range power trim & tilt	•		•	۲			۲	۲				
Rectifier	Rectifier												
	Rectifier regulator	•	٠	٠	٠	٠	٠	•	٠				
Standard equipment	Prime start <sup>™</sup>	<u>•</u>	•	•	•	•		•	•		_		
Standard on the	Engine stop switch lanyard		H			•	•		•	•			
remote control box	Shallow water drive	10A	•		•	•			•		•	• 80Ŵ	
Standard in the digital tachometer	Alternator (A)	IUA	0A	0A	6A	0A	80W	6A	0A	8000	0A	8000	
	Start-in-gear prevention Overheat warning							-					
* Light coll only (Optional rectifier	Over-revolution prevention												
required for battery charging)	Remote control box	Ī	•	•	•	-	-	ě	Ē	-	•	-	
Splash lubrication	Speedometer	D	D	D	D								
system	Tachometer	D	D	D	D			D					
D Digital meter	Trim meter	*	$\star$	*	$\star$			*					
S Stainless steel	Propeller	s	۲	•		•	٠	•	۲	•	۲		
B Built-in	Fuel Tank (lit)	24	24	24	24	24	24	24	24	24	24	24	
DT Dual thrust	Emergency starter rope	•	٠	•	۲	•	٠	•	٠	•			



# 26 2 - Stroke 2HP - 25HP

# PORTABLE 2 STROKES



What sets the Yamaha 2-stroke portables apart from the competition is not just their light weight and compact packaging, but the same renowned Yamaha quality, technology and reliability incorporated on our larger displacement outboards.

Manual tilt with shallow water drive makes boating easy, and allows you to get to places others can only dream about. Most models have a built in alternator, a feature that delivers on board power for your GPS, fish finder or spotlight.

Whether powering an aluminium dinghy, as a kicker for a yacht or an the transom of an inflatable, Yamaha portables may well be small and light, but they remain big on features to make your boating safe, reliable and enjoyable.

# 2 - Stroke 2HP - 25HP **27**







					two stroke
FEATURES	725AET 725AET 725AET 725AET 720BEF 720BMF 72	YAMAHA 25AMAHA 20			INTERNAL FUEL TANK
Operation  Tiller Handle		52 IMANA 20	line and		
Method CRemote control			MAHA		de
Pre-mix			MAHA 15 AMAHA	S AMAHA	MAHA
Lubrication Oil Injection			99	8 6 YAMAHA	SAMANA MA
└ Wet-sump	••••				AMAHA
Starting Manual			The second se		
System L Electric					er
Trim & Tilt Hydro tilt	• • • • • • •				
Method Power tilt					
Wide range power trim &	filt				
Pectifier				2	
Rectifier Rectifier regulator					
Standard Prime start <sup>™</sup>				200	
equipment Engine stop switch lanyar	rd 🛛 🛢 🔍 🖉 🗣 🔍 🔍 🔍 🔍 🔍	The state of the s			
Standard on the remote control box Shallow water drive					
Standard in the Alternator (A)	15A 15A 80W 10A 10A 120W 120W 10A 6A				
digital tachometer Start-in-gear prevention					
· Light coll only Overheat warning					
Light coil only (Optional rectifier required for betray charging)     Overheat warning Over-revolution prevention Remote control box	n				
	•••••				
Splash lubrication Speedometer Tachometer					
D Digital meter		25нр 20нр	15нр 9.9нр 8	нр бнр 5нр	4HP ЗНР 2HP
S Stainless steel Propeller				смн 6СМН 5СМН	4ACMH 3AMH 2CMH
B Built-In Fuel Tank (lit)	24 24 24 24 24 24 12 12 12 <b>B B</b>	25NWC 20DMH 25NMH	DUAL-THF	RUST	4ACMH 3AMH 2CMH
DT Dual thrust Emergency starter rope			ON LONG SH	IAFT	

100:1 OIL FUEL RATIO

# 28 CV & Enduro

# CV & ENDURO 2 STROKES



If you are a no-frills type of boater who demands the very best at a reasonable price, then the Yamaha CV (Customers' Value) series is for you. Built into these hard workers is the quality and reliability that sets Yamaha apart from the competition. These proven loop-charged engines deliver reliable power with superb fuel economy, not to mention the one thing that is truly expected of a Yamaha: legendary durability. Reliable electric starters and alternators ensure confidence and guarantee power for quick starts. Even with attractive pricing, these are still Yamaha outboards through and through.

Our Enduro outboards are designed from the bottom up to take the strain of continuous hours of hard use. Years of rigorous testing have produced features that make the difference between a motor that goes the distance and one that quits along the way.



FEATUR	ES	50HE-	40X/V	30HML	30H/M	25BML	E60HM	E40XMH
Operation _	Tiller Handle			•		•		•
Method	Remote control	İ.	•					
Г	Pre-mix	•				•		•
Lubrication	Oil Injection							
L	Wet-sump							
Starting <sub> </sub>	Manual			•		٠	٠	•
System L	Electric	•	۲		٠			
Г	Manual tilt					۲		•
Trim & Tilt	Hydro tilt						۲	
Method	Power trim & tilt							
L	Wide range power trim & tilt	•	۲					
Rectifier	Rectifier		•		٠			
	Rectifier regulator	•						
Standard equipment	Prime start <sup>™</sup>	•						
	Engine stop switch lanyard			٠		•	•	•
Standard on the remote control box	Shallow water drive	•	•	•	•	•	•	•
🛨 Standard in the	Alternator (A)	6A	6A	80W	6A	80 <b>W</b>	80W	BOW
digital tachometer	Start-in-gear prevention			•		•	•	•
* Light coil only (Optional rectifier	Overheat warning	•	•	•	•	•	•	•
required for battery	Over-revolution prevention	•	•	•	•	•	•	•
charging)	Remote control box	•	•		•			
Splash lubrication system	Speedometer		_					
D Digital meter								
S Stainless steel	Trim meter						•	
B Built-in			•		•	•	S	•
DT Dual thrust	Fuel Tank (lit)	24	24	24	24	24	24	24
Di Duartifust	Emergency starter rope	•	•	•	•	•	•	•







Yamaha Marine Insurance (YMI) is a fresh new product that is a world first for Yamaha. No other outboard company in the world offers its own brand of marine insurance. Your YMI policy is a Yamaha factory backed product.

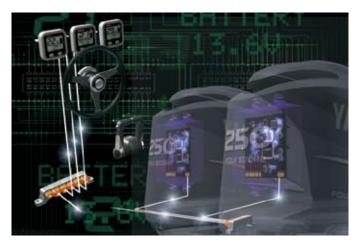
YMI has an extensive range of features that are unique. When you check the features and compare YMI with other quality brands of marine insurance you will soon see that YMI offers the best benefits at the best rates.

- Yamaha factory backed
- Only genuine Yamaha parts used for repairs
- No theft excess when protected with DataDot anti theft technology
- Replacement of boat and Wave Runner in first 12 months of registration
- New for old on mechanical and electrical components of motors regardless of age
- Premium discounts for age, boating experience and boating courses
- Pay by the month option
- YMI membership card

- Agreed value for hull, motor, trailer and equipment and accessories.
- Gap cover available for nominal extra fee including extras cover
- Layup premium discount for the months your boat or Wave Runner is not used
- 24/7 emergency claim service
- \$10 million legal liability standard for boats and Wave Runners
- Accessible only through authorised Yamaha dealers
- 21 day cooling off period (conditions apply)



# 30 Instrumentation



# DIGITAL NETWORK (LAN) SYSTEM.

Yamaha offers a sophisticated digital network system utilising the latest Yamaha 6Y8 Digital Network Gauge for all Yamaha EFI 4-stroke and HPDI outboards; standard equipment on 115 to 350hp 4-stroke and all HPDI models; also compatible as an option with all other EFI 4-stroke outboards 50hp to 100hp.

Monitoring all facets of cruise information, engine performance and on-board diagnostics, Yamaha's new communication system is a Controlled Area Network (CAN) which interconnects the engine with peripheral devices such as electronics and transducers into one highly advanced digital network. Through complete system integration, boat operators can now monitor all major boat information streams with fewer engine gauges and fewer wires.

The newly developed Yamaha 6Y8 Digital Network Gauges are the first link in the new Digital Network System. Offering variable gauge illumination in a large square format, the Digital Network Gauges deliver integral fuel flow management, engine water temperature, battery and trim levels and engine warning information.

Ranging from 6 to 36 display options, the new gauges are user selectable and offer multi-function capabilities with single speedometer, tachometer, fuel management or combination speed and fuel gauge. When fitted to an optional transducer, the application of the Yamaha 6Y8 Digital Network Gauges are further enhanced with speed, water depth and water temperature information readout.

Through Yamaha's digital network, modern day boating has become simpler, safer and easier to manage.



TACHOMETER



SPEEDOMETER

PERD FUR

## ANALOGUE OUTBOARD GAUGES.

Provide high accuracy and easy readability. Direct faceplate illumination allows easy night time viewing.

Available in black or white face.



DIGITAI	Applicati	on Models
DIGITAL	2-stroke	4-stroke
Tachometer	39(L3) to 300hp	30 to 250hp
Speedometer	30(L3) to 300hp	30 to 250hp
Fuel management meter	V4, V6	115 to 250hp

ANALOGUE	Applicatio	on Models
ANALUGUL	2-stroke	4-stroke
Tachometer	6 to 300hp	6 to 250hp
Speedometer	30(L3) to 300hp	30(L3) to 250hp
Trim meter	All PTT models with trim sender	All PTT models with trim sender
Water pressure meter	40(L3) to 300hp	40(L3) to 250hp
Water temp meter	40(L3) to 300hp	40(L3) to 250hp
Hour meter	All electric start models	All electric start models
Voltage meter	All electric start models	All electric start models
Fuel meter	All electric start models	All electric start models





FUEL MANAGEMENT GAUGE

COMBINATION SPEEDOMETER & FUEL MANAGEMENT GAUGE

# Remote Control Boxes 31

## REMOTE CONTROL BOXES

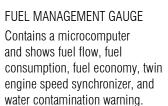
choke, and power trim & tilt control.



DIGITAL OUTBOARD GAUGES

available as optional accessories).

models. See specification lists for details. (Analogue meters are





trip meter, clock, fuel gauge, and voltmeter.



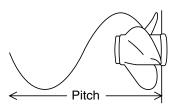
### MULTIFUNCTION OUTBOARD TACHOMETER

Shows rpm, hour meter, water contamination warning (depending on model), engine check warning (depending on model), tilt position, oil level (2-stroke), overheat warning and low oil warning.



# 32 Propellers & Tiller Handle

# COMPREHENSIVE SELECTION OF PROPELLERS SALTWATER SERIES XL PROPELLER Saltwater series, large diameter XL propellers have been specifically CONVENTIONAL PROPELLER developed for the F350 to produce optimum thrust. PLASTIC THROUGH-HUB PROPELLER STAINI ESS ALUMINIUM **DUAL THRUST PROPELLER** ALUMINIUM SALTWATER SERIES II PROPELLER DIAMETER VMAX SERIES PROPELLER The width scribed by the propeller in a single turn. STAINLESS (POLISH) PITCH: The distance the propeller travels in a single turn. Activates accessories, starts and stops engine



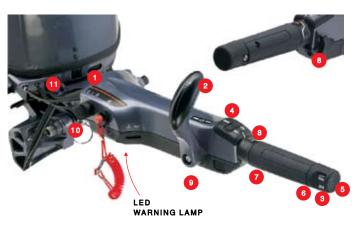
ALUMINIUM

Diameter

## MULTI - FUNCTION TILLER HANDLE

The Yamaha Multi-Function Tiller Handle puts advanced marine technology at your fingertips. Designed with fishing enthusiasts in mind, the Yamaha Tiller Handle is available on select 2-stroke and 4-stroke Yamaha engines ranging from 40 to 60hp, check with your Yamaha dealer

Yamaha's Multi-Function Tiller Handle can either be retro fitted to your existing outboard or factory fitted with select 40hp, 50hp and 60hp 2stroke and 4-stroke Yamaha outboards.



- 1. New ergonomic styling to match the modern cowling design.
- 2. Contoured, composite coated shift lever for easy, smooth shifting.
- 3. Easy access Power Trim & Tilt Switch for on-the-go operation with the operating hand.
- 4. Surface Mounted Variable Trolling Speed Switch (exclusive to Yamaha on F50F and F60C models) easily accessible with the operating hand.
- 5. Longer throttle grip for easier manoeuvrability.
- 6. Larger diameter throttle grip with a new style grip pattern for added comfort.
- 7. Shorter 90 degree twist grip angle for less operational fatigue.
- 8. Triangular shaped Throttle Friction Knob for easy adjustment with the operating hand.
- 9. Built-in neutral switch and buzzer for guicker rigging time.
- 10. Easy Access Key Switch and Stop Switch easily accessible by the operating handle.
- 11. Utilizes the same 10 pin wiring as a remote control for quick, convenient rigging.

- Main switch Throttle control · Controls shifts and engine revolution leutral throttle lever Controls engine speed and neutral shi Engine stop switch lanvard Immediately stops engine automatically if the operator leaves the helm Start in-gear prevention Prevents engine from starting at other than neutral shift Choke switch Actuates choke electrically Power trim and tilt switch Activates power trim and tilt up or down operation with up or down switch position Warning buzzer Attracts operator's attention before the outboard goes into serious trouble in the event that overheating or low oil level has occurred
- Presence of the item varies according to remote control box models and their variations
- For more information refer to Yamaha marine accessories catalogue. · Product improvements may cause changes in specifications without notice.
- Some photos include optional equipment



FUEL LINE HOSE AND FITTINGS LONG-LIFE. FUEL RESISTANT HOSE WITH SNAP-ON FITTINGS TO ALLOW QUICK ATTACHMENT AND REMOVAL OF THE FUEL TANK.

WATER PUMP IMPELLERS & HOUSINGS



FUEL TANK 24 LTR



**INCLUDING PRIMER & CLEAR COAT** 



FUEL FILTER WATER SEPARATORS

**BLOCK FILTER MEDIA** 

STANDARD FOR CARBURETTED ENGINES

ALL FILTERS ARE 10 MICRON FILTRATION WITH AQUA

FILTER WITH WATER SIGHT

FILTER WITH WATER SIGHT

FUEL INJECTED ENGINES

**GLASS FUEL INJECTED ENGINES** 

FILTER WITH WATER SIGHT **GLASS & STAINLESS STEEL** GLASS & WATER SENSOR PROBE FILTER HEADFUEL INJECTED \ ENGINES



SACRIFICIAL ANODE, ENGINE, BRACKET AND TRIM TAB

of your Yamaha outboard is maintained, be sure to insist on fitting only genuine Yamaha parts whenever your Yamaha outboard is serviced.

Each and every Yamaha outboard is manufactured to precise specifications with fine factory tolerances. From a trusty 2 - stroke workhorse to a new high-technology 4 - stroke, Yamaha genuine parts meet exacting Yamaha standards, the precise specification as when your engine was first manufactured. You can then be assured of enjoying longer engine life and many more hours of troublefree boating.

To ensure that the reliability and high resale value

Yamaha genuine parts are also used exclusively in all Yamaha warranty work undertaken by authorised Yamaha dealers. Backed by a factory warranty, Yamaha genuine parts are the best insurance for your outboard.

Insist on only Yamaha genuine parts to maintain your boating edge on the water.



RECTIFIER REGULATERS 6 TO 40 HP 115. 130 2-STROKE WITH CHARGING OF SECOND BATTERY



THERMOSTATS AND GASKETS



YAMAHA GENUINE OIL FILTER



# 34 Merchandise



#### INSIST ON ...



Your Yamaha owners manual recommends the use of YamaLube. This wide range of products has been factory developed and formulated to maintain the performance and reliability of your Yamaha engine... for life.



YAMALUBE® 2 - TCW3 2 STROKE MOTOR OIL

FUEL STABILIZER & CONDITIONER





YAMALUBE® 4 - 4 CYCLE ENGINE OIL FOR OUTBOARD MOTORS AND PERSONAL WATERCRAFT

# AND DESCRIPTION OF A DE

BEEDERIC

NEL TEN

Power Trim & Tilt Fluid YAMAHA SERVICE

Yamaha outboard motors are shipped only after passing many rigorous tests. And, wherever they go they are supported by a powerful backup system consisting of an extensive, close-knit service network with highly experienced staff.

Ensure that your Yamaha outboard performs at its peak year round by having only a factory trained Yamaha service technician undertake all your servicing needs. Rigorously trained by Yamaha's experienced factory trained instructors, all Yamaha service technicians are committed to maintaining the highest standards across all service disciplines.

Yamaha's commitment to high quality training is reflected in the Yamaha Technical Academy (YTA). With locations in all major capital cities, the YTA conducts a specialised training program which caters to all skill levels with Bronze, Silver and Gold certification.



The YTA training program is an ideal solution for all technicians ranging from young apprentices at the start of their career through to qualified marine technicians who wish to further hone their skills.

YTA's accredited training covers both practical applications and computer-based testing, to provide the highest standard of technical training.

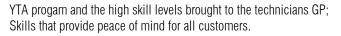
Testament to these standards is the hotly contested bi-annual Marine

Technician Grand Prix. Designed to recognise and motivate technicians to achieve the highest standards in customer after sales service, the Marine

Technician GP brings together the finest marine service staff from Yamaha dealerships across the Oceania region to firstly challenge then recognise the very best of the best.

A tough theoretical test is followed up with a series of

gruelling practical tasks. All tasks are specifically designed to identify the master Yamaha technician within the group. Yamaha is proud of it's



Backed up with genuine Yamaha parts and accessories, an authorised Yamaha service technician, at your Yamaha dealer, is the best support combination to keep your Yamaha outboard engine performing at its peak.

## COMPREHENSIVE DEALER NETWORK

When you purchase a Yamaha outboard engine you have access to the finest support network of authorised Yamaha dealers throughout New Zealand and beyond. A Yamaha dealer is also an experienced boater who can not only help you service and maintain your boat, but also offer expert advice on your boating needs.



Yamaha customers have identified the best of the best with Yamaha Platinum Dealers represent the pinnacle of marine service and customer satisfaction. A Yamaha Platinum Dealer is acknowledged as a leader in marine retailing and service.

From the latest in marine engine diagnostic equipment to the calibre of marine service technician training, Yamaha's dealer network represents the front line in service backup and support.





GEARCASE LUBE

# 36 WaveRunner

Yamaha's latest range of WaveRunner Personal Watercraft (PWC) has landed on Australian shores to settle the score. Armed with a range of bold new engine and hull technologies, the latest offering from the Yamaha stable is here to demolish the competition in the hotly contested battle for PWC supremacy.

## Supercharged Super High Output Engine

The power plant for the new SHO models is a compact 1.8 litre, supercharged, intercooled, super high output 4 cylinder Yamaha marine engine. The 4-stroke EFI engine is 300cc bigger than any competitor and the largest displacement engine ever used in a personal watercraft.

## NanoXcel

Using nanotechnology, Yamaha engineers developed a new lightweight and high strength material called NanoXcel for use in the development of new WaveRunner models. The outcome – a 25% weight reduction over previous models for superior hull responsiveness, acceleration and overall speed.



## Cruise Assist

Yamaha's thirst for innovation continues with the SHO WaveRunner's Cruise Assist function. Another industry first, Yamaha has created a throttle control system similar to automobile cruise control where the PWC rider can set and hold speeds. Once the speed is set, the rider can raise or lower the speed at the flick of a switch.

## No Wake<sup>™</sup> Mode

When travelling through waterways with No Wake zones, the SHO WaveRunner rider can engage Yamaha's No Wake mode which automatically adjusts the engine's RPM to an optimum speed for minimal wake.

> The popular Yamaha SuperJet also reveals a newly designed hull for 2008 that increases throughwater efficiency and stability while reducing overall weight. The key feature is a tapered hull profile delivering a broader beam up front for steering stability which narrows down to a slim rear end for enhanced cornering and speed. More pronounced ribs on the hull deliver more bite on the water's surface and dramatically improved cornering performance.

> > Check out the full range at www.yamaha-motor.com.au or visit your local Yamaha WaveRunner Dealer.



# SLSC & Model Codes 37



YAMAHA - THE POWER BEHIND SURF LIFE SAVING AUSTRALIA

For over one hundred years, Australia's trained surf lifesavers have been keeping our beaches safe. In that time, they have rescued more than 530,000 people and provided first aid to a

million others, a truly amazing feat.

Surf Life Saving Australia (SLSA) provides patrol services on 400 of the 115,601 beaches around Australia's 36,735 km of coastline. With so much coastline to patrol, SLSA relies on Yamaha's products to assist in this massive task.

Yamaha Motor Australia is proud to be a long standing partner of SLSA. Yamaha offers all the products needed to allow SLSA to react rapidly to emergencies on the beach and in the ocean.

The relationship between Yamaha and SLSA is a perfect association in that both are geared to enjoying the great Australian outdoor lifestyle. Together they make fun in the sun that much safer.

**⊛YAMAH**A



As part of this association, Yamaha has undertaken to be a major sponsor of the Australian Surf Life Saving Championships. Next to the Olympics, this competition is the largest single sporting event in the Southern Hemisphere with 7500 entrants and over 100,000 supporters. The event showcases the very finest surf athletes this country has to offer, the same people who volunteer their time to watch over our favourite beaches.

> Every day Surf Life Saving Australia men and women put their faith in Yamaha's products to provide the power and reliability necessary to save lives. Every summer day thousands of Australians put their faith in SLSA to be there in an emergency.

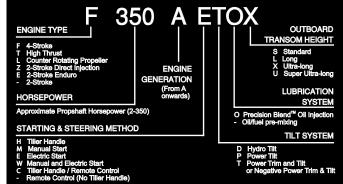
> > When you next you see a Yamaha Wave Runner or outboard powered 'rubber duckie' on the beach or out in the surf, just think one day it might be saving your life or that of a loved one.

> > > What brand would you put your faith in?

## UNDERSTANDING THE MODEL CODES

The model names and code letters make it easy to select exactly the right outboard. As in the example below, the prefix letter indicates the basic engine type (2-stroke, 4-stroke etc), the number gives a guide to approximate shaft horsepower, and the single letter immediately after the number shows the 'generation' of the model.

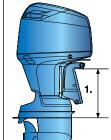
Any additional code letters identify the variant of the engine (i.e: electric or manual start, steering method, type of tilt system, shaft length etc).



## OUTBOARD TRANSOM HEIGHTS

Most Yamaha Outboards are available in a choice of shaft lengths  $(S \cdot L \cdot X \cdot U)$  designed to match any boat transom height, and to allow the outboard to give its best performance with maximum efficiency.

The 'Outboard Transom Height' (Dimension 1) is not the same as the 'Standard Boat Transom Height' (Dimension 2) because it is calculated to give the optimum shaft length, and therefore the most efficient positioning in the water, of the lower unit and the propeller.





Yamaha 'Outboard Transom Heights' are based on the following 'Standard' Boat Transom Heights which should be used as a guide to choosing the right outboard.

- S To fit 'Standard Transom Height' X To fit 'Standard Transom Height' of approx 381mm (15ins) of approx 635mm (25ins)
- L To fit 'Standard Transom Height' U To fit 'Standard Transom Height' of approx 508mm (20ins) U of approx 762mm (30ins)

# 38 Specifications

O/M transom height (mm/inch) S

CDI-microcomputer

Weight (kg) with prop.

Engine Type Displacement (cm<sup>3</sup>) Bore x Stroke (mm) Output (kw/hp) Max. operating range (rpm) Compression Ratio Fuel Injection System Induction System

Ignition

Gear Ratio

Viodel

O/M transom height (mm/inch)

Weight (kg) with prop.

Engine Type Displacement (cm³) Bore x Stroke (mm) Output (kw/hp)

Max. operating range (rpm) Compression Ratio

CDI-microcompute

Fuel Injection System

Induction System

Ignition

Gear Ratio

X U s

L X U

CDI TCI

Model

TOP OF THE RANGE 4-STROKES

MIDRANGE 4-STROKES

350	HP	300	HP	250	HP	225	HP	200	HP	150	HP	11	SHP	100HP	80HP	60	HP	50	HP		40HP		30HP	30HP
350AET	FL350AET	F300AET	FL300AET	F250BET	FL250BET	F225AET	FL225AET	F200AET	FL200AET	F150AET	FL150AET	F115AET	FL115AET	F100DET	F80BET	F60CET	F60CEHT	F50FET	F50FEHT	F40BET	F40BWHT	F40BWHD	F30AET	F30AEH
—		_	—	—	—	—	—	—	—	—	—	_	—	_	—	_	—	—	—	_	—	—	—	
—		_	—	_	—	—	—	—	—	516/20.3	—	516/20.3	—	536/21.1	536/21.1	527/20.7	527/20.7	527/20.7	527/20.7	533/21.0	533/21.0	533/21.0	533/21.0	533/21.
635/25	635/25	635/25	635/25	643/25.3	643/25.3	643/25.3	643/25.3	643/25.3	643/25.3	643/25.3	643/25.3	643/25.3	643/25.3	664/26.1	664/26.1	_	—	—	—	_	—	—	—	
762/30	762/30	762/30	762/30	770/30.3	770/30.3	770/30.3	770/30.3	—	—	—	—	_	—	_	—	_	—	—	—	_	—	—	—	
—		—	—	_	—	—	—	—	—	—	—	_	—	_	—	_	—	—	—	_	—	—	—	
—		—	—	_	—	—	—	—	—	216	—	188	—	172	172	110	114	110	114	90.4	96.9	94.2	90.4	94.4
365	365	365	365	276	276	269	269	269	269	220	220	193	193	176	176	_	—	_	—	_	—	—	—	
373	373	373	373	286	286	275	275	—	—	—	—	_	—	_	—	_	—	_	—	_	—	—	—	
60°V8	60°V8	60°V8	60°V8	60°V6	60°V6	60°V6	60°V6	60°V6	60°V6	4-Cyl.	4-Cyl.	4-Cyl.	4-Cyl.	4-Cyl.	4-Cyl.	4-Cyl.	4-Cyl.	4-Cyl.	4-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.
5330	5330	5330	5330	3352	3352	3352	3352	3352	3352	2670	2670	1741	1741	1596	1596	996	996	996	996	747	747	747	747	747
94x96	94x96	94x96	94x96	94x80.5	94x80.5	94x80.5	94x80.5	94x80.5	94x80.5	94x96.2	94x96.2	79x88.8	79x88.8	79x81.4	79x81.4	65x75	65x75	65x75	65x75	65x75	65x75	65x75	65x75	65x75
57.4/350	257.4/350	223.7/300	223.7/300	183.9/250	183.9/250	165.5/225	165.5/225	147.1/200	147.1/200	110.3/150	110.3/150	84.6/115	84.6/115	73.6/100	58.8/80	44.1/60	44.1/60	36.8/50	36.8/50	29.4/40	29.4/40	29.4/40	22.1/30	22.1/3
500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5000-5500	5000-55
9.6	9.6	9.6	9.6	9.9	9.9	9.9	9.9	9.9	9.9	9	9	9.7	9.7	9.6	9.6	9.5	9.5	9.5	9.5	9.87	9.87	9.87	9.87	9.87
EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	EFI	Carb	Carb	Carb	Carb	Carb
DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	DOHC	SOHC	SOHC	SOHC	SOHC	SOHC	SOHC	SOHC	SOHC	SOHO
																				•	•	•	•	•
•	•	•	•	•	•	٠	•	•	٠	•	•	•	•	•	•	•	•	•	•					
5:26 (1.73)	15:26 (1.73)	15:26 (1.73)	15:26 (1.73)	15:30 (2.0)	15:30 (2.0)	15:30 (2.0)	15:30 (2.0)	15:30 (2.0)	15:30 (2.0)	14:28 (2.0)	14:28 (2.0)	13:28 (2.15)	13:28 (2.15)	13:30 (2.31)	13:30 (2.31)	13:24 (1.85)	13:24 (1.85)	13:24 (1.85)	13:24 (1.85)	13:26 (2.0)	13:26 (2.0)	13:26 (2.0)	13:26 (2.0)	13:26 (2

## TOP OF THE RANGE

HPDI 2-STROK	ES
2001/ID	17010

	200	HP	175HP	150HP	200	HP	175HP	150HP	130HP	115HP
	Z200NETO	LZ200NETO	Z175GETO	Z150PETO	200FETO	L200FETO	175DETO	150FETO	130BETO	115CETO
S	_	—	—		_	—	_	—	_	_
L	—	—	—		_		_	516/20.3	516/20.3	516/20.3
X	643/25.3	643/25.3	643/25.3	643/25.3	642/25.3	642/25.3	642/25.3	642/25.3	642/25.3	642/25.3
U	_	—	—		_	—	_	—	_	_
S	_	—	—		_	—	_	—	_	_
L	_	—	—		_	—	—	194	167	167
X	220	220	220	220	198	200	198	198	171	171
U	_	—	—	—	_	—	_	—	_	_
	76°V6	76°V6	76°V6	76°V6	90°V6	90°V6	90°V6	90°V6	90°V4	90°V4
	2596	2596	2596	2596	2596	2596	2596	2596	1730	1730
	90x68	90x68	90x68	90x68	90x68	90x68	90x68	90x68	90x68	90x68
	147.1/200	147.1/200	128.7/175	110.3/150	147.1/200	147.1/200	128.7/175	110.3/150	95.6/130	84.6/115
			5000-5500		5000-5500	5000-5500	5000-5500	5000-5500	5500-6000	5000-5500
	6.3#1-4 6.0#5,6	6.3#1-4 6.0#5,6	6.5#1-4 6.1#5,6	6.7#1-4 6.4#5,6	6.2	6.2	6	6.2		6.5
	HPDI	HPDI	HPDI	HPDI	Carb	Carb	Carb	Carb	Carb	Carb
	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop
uter					٠	•	٠	•		
CDI									٠	•
TCI	٠	•	•	•						
	14:26 (1.86)	14:26 (1.86)	14:26 (1.86)	14:26 (1.86)	14:26 (1.86)	14:26 (1.86)	14:26 (1.86)	14:26 (1.86)	13:26 (2.0)	13:26 (2.0)

<b>`</b>	175HP	150HP	130HP	115HP
<b>00FETO</b>	175DETO	150FETO	130BETO	115CETO
—	_	—	_	—
—	—	516/20.3	516/20.3	516/20.3
42/25.3	642/25.3	642/25.3	642/25.3	642/25.3
—	_	—	_	_
—	_	—	_	_
—	_	194	167	167
200	198	198	171	171
—	_	—	_	_
90°V6	90°V6	90°V6	90°V4	90°V4
2596	2596	2596	1730	1730
90x68	90x68	90x68	90x68	90x68
7.1/200	128.7/175	110.3/150	95.6/130	84.6/115

TOP OF THE RANGE

V6-V4 2-STROKES

#### MIDRANGE 2-STROKES

90HP	70HP	60HP		50HP				40HP		30	HP
90AETO	70BETO	60FETO	50HETO	50HWHTO	50HMHD	50HMHO	40VETO	40VWHTO	40VMHD	30DETO	30DMH
_	—	—	—	—	—	—	—	_	—	_	424/16.7
520/20.5	521/20.5	521/20.5	533/21.0	533/21.0	533/21.0	381/15.0	533/21.0	533/21.0	533/21.0	545/21.5	545/21.5
647/25.5	—	—	_	—	—	—	—	—	_	—	—
—	—	—	_	—	—	—	—	—	_	—	—
—	—	—	_	—	—	—	—	—	_	—	—
122.5	105.5	105.5	88	93	84	75	88	93	84	66	61
122.5	—	—	_	—	—	—	—	—	_	—	—
—	—	—	_	—	—	—	—	—	_	—	—
3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.	3-Cyl.
1140	849	849	698	698	698	698	698	698	698	496	496
82x72	72x69.5	72x69.5	67x66	59.5x59.5	59.5x59.5						
66.2/90	51.5/70	44.1/60	36.8/50	36.8/50	36.8/50	36.8/50	29.4/40	29.4/40	29.4/40	22.1/30	22.1/30
5000-5500	5500-6000	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500
5.76#1 5.67#2 5.86#3	6.1	6.1	6	6	6	6	6	6	6	6.8	6.8
Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb
Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop
•	•	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		<b>A</b>		
										•	٠

13:26 (2.0) 12:28 (2.33) 12:28 (2.33) 13:24 (1.85) 13:24 (

# Specifications 39

#### PURIABLE 4-STROKES

Model		
O/M transom	neight (mm/inch)	S
		L
		X
		ι
Weight (kg) wi	th prop.	S
		L
		X
		ι
Engine Type		
Displacement	(cm³)	
Bore x Stroke	(mm)	
Output (kw/h	p)	
Max. operating	g range (rpm)	
Compression	Ratio	
Fuel Injection	System	
Induction Syst	tem	
Ignition	CDI-microcompu	rter
		CD
		TC
Gear Ratio		

2.5HP	4HP	8HP	9.9HP	HP	15		20HP			25HP	
F2.5AMH	F4AMH	F8CMH	F9.9FMH	F15CMH	F15CEH	F20BMH	F20BEHP	F20BEP	F25AMH	F25AEHT	F25AET
432/17.0	435/17.1	435/17.1	381/15	438/17.2	438/17.2	438/17.2	—	—	—	—	—
—	562/22.1	562/22.1	508/20	565/22.2	565/22.2	565/22.2	570/22.4	570/22.4	550/21.7	550/21.7	550/21.7
—	—	—	635/25		—	—	—	—	—		
—	—	—	—		—	—	—	—	—	—	—
17	22	38	39.9	51.7	53.7	51.7	—	—	—		
—	23	39.5	39.9	53.7	55.7	53.7	60.7	60.7	64	72	71
_	_	—	39.9		—	—	—	—	—		_
—	—	—	—	—	—	—	—	—	—	—	—
1-Cyl.	1-Cyl.	2-Cyl.									
72	112	197	212	362	362	362	362	362	498	498	498
54x31.5	59x41	56x40	56x43	63x58.1	63x58.1	63x58.1	63x58.1	63x58.1	65x75	65x75	65x75
1.8/2.5	2.9/4.0	5.9/8.0	7.3/9.9	11.0/15	11.0/15	14.7/20	14.7/20	14.7/20	18.4/25	18.4/25	18.4/25
5250-5750	4500-5000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	5500-6000	500-6000
9	8.4	8.79	9.46	9.3	9.3	9.3	9.3	9.3	9.87	9.87	9.87
Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb
OHV	OHV	SOHC									
		٠	٠	٠	٠	•	•	•	٠	•	٠
•	•										
13:27 (2.08)	13:27 (2.08)	13:27 (2.08)	13:27 (2.08)	13:27 (2.08)	13:27 (2.08)	13:27 (2.08)	13:27 (2.08)	13:27 (2.08)	13:27 (2.08)	13:27 (2.08)	3:27 (2.08)

60HP	25HP	9.9	HP
		FT9.9GEP	
_	—	381/15	—
530/20.9	528/20.8	508/20	508/20
644/25.4	642/25.3	635/25	635/25
—	—	—	—
—	—	44.3	44.4
115	86.7	44.3	45.5
119	90	44.3	—
—	—	—	—
4-Cyl.	2-Cyl.	2-Cyl.	2-Cyl.
996	498	212	197
65x75	65x75	56x43	56x40
44.1/60	18.4/25	7.3/9.9	5.9/8.0
5500-6000	5500-6000	5500-6000	5500-6000
9.5	9.87	9.46	8.79
EFI	Carb	Carb	Carb
SOHC	SOHC	SOHC	SOHC
	•	٠	•
•			
12:28 (2.33)	12:29 (2.42)	13:38 (2.92)	13:38 (2.92)

нісн інкозі

4-STROKES

## OEDA

An emissions rating system introduced in January 2007 helps boat owners select outboard engines based on emission information along with other features required to meet their usage requirements.



#### PORTABLE 2-STROKES

Model O/M transom heig Weight (kg) with j Engine Type Displacement (cm Bore x Stroke (mn Output (kw/hp) Max. operating ran Compression Rati Fuel Injection Sys Induction System Ignition CE Gear Ratio

CV & ENDURO

2-STROKES

	40HP	60HP	25HP	HP 1	30	40HP	50HP	2HP	3HP	4HP	5HP	6HP	8HP	9.9HP	15HP	20HP	₽	25
	E40XMH	E60HMHD	25BMH	30HW	30HMH	40XWT	50HET	2CMH	3AMH	4ACMH	5CMH	6CMH	8CMH	9.9FMH	15FMH	20DMH	25NMH	25NWC
	_	—	_	—	423/16.7	—	—	417/16.4	441/17.4	444/17.5	444/17.5	436/17.2	436/17.2	440/17.3	440/17.3	419/16.5	419/16.5	—
	550/21.7	571/22.5	550/21.7	550/21.7	550/21.7	550/21.7	533/21.0	—	—	—	571/22.5	563/22.2	563/22.2	_	567/22.3	546/21.5	546/21.5	546/21.5
	—	—	_	—	—	—		—	—	—	—	—	—	—	—	—	—	—
	—				_	—		—	—	—		—	—		—	—		—
	—	—	_	—	53	—		9.8	16.5	21	21	27	27	36	36	48	48	—
	73.6	102	54.5	58	54.5	80.7	87	_	—	—	21.5	27.5	27.5		37.5	49.5	49.5	51
	—	—	_	—	—	—		—	—	—	—	—	—	_	—	—	—	—
								_	—	_	—	—	—	_	—	—	—	—
	2-Cyl.	3-Cyl.	2-Cyl.	2-Cyl.	2-Cyl.	2-Cyl.	3-Cyl.	1-Cyl.	1-Cyl.	1-Cyl.	1-Cyl.	2-Cyl.						
<ul> <li>Star</li> </ul>	703	849	496	496	496	703	698	50	70	83	103	165	165	246	246	395	395	395
▲ CDI-elec	80x70	72x69.5	72x61	72x61	72x61	80x70	67x66	42x36	46x42	50x42	54x45	50x42	50x42	56x50	56x50	67x56	67x56	67x56
	29.4/40	44.1/60	18.4/25	22.1/30	22.1/30	29.4/40	36.8/50	1.5/2.0	2.2/3.0	2.9/4.0	3.7/5.0	4.4/6.0	5.9/8.0	7.3/9.9	11.0/15	14.7/20	18.4/25	18.4/25
HPDI High Pressur	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	5000-5500	4500-5000	5000-5500	5000-5500	5000-5500	4500-5000	5000-5500	5000-5500	5000-5500	5500-6000	5500-6000	5500-6000
EFI Electron	6	6.1	6.2	7	7	6	6	8.3	6.9	7	6.5	7	7	6.8	6.8	7.2	7.2	7.2
_	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb	Carb
Ca	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Cross	Cross	Cross	Cross	Loop	Loop	Loop	Loop	Loop
OHV							<b>A</b>			<b>A</b>	<b>A</b>							
DOUD Builting	•	•	•	•	٠	٠		•	•			٠	٠	٠	•	•	•	•
DOHC Double ove																		
SOHC Single over	13:26 (2.0)	12.28 (2.22)	13.27 (2.09)	13.27 (2.09)	13.27 (2.09)	13.26 (2.0)	13:24 (1.85)	13.27 (2.08)	13.27 (2.08)	13.27 (2.08)	13.27 (2.08)	13.27 (2.08)	13.27 (2.08)	13.27 (2.08)	13.27 (2.08)	13.27 (2.08)	13.27 (2.08)	13:27 (2.08)













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