

Yamaha Motor Australia

## OB Media Release – New F90

14 December 2016



Yamaha Motor Australia is excited to announce the release of the all new four-stroke 90 horsepower outboard engine, the new lightweight F90. This remarkable new engine bolsters Yamahas line up of class leading mid-range outboards from the award-winning F70 through to the top selling F130. The new F90 fills an important place within the Australian line up, delivering the perfect power option for the huge number of Aussie built boats rated to a maximum of 90 horsepower. Not only does this engine sit in a popular part of the market, it also delivers many new advantages that make F90 quite exceptional.

The F90 is equipped with a four-cylinder 16-valve in-line SOHC 1.8L engine, bigger displacement than the previous generation 1.5L engine it replaces. Most impressively the bigger F90 weighs in close to 10kgs lighter than the old engine. This remarkable achievement means improved performance, and better balance when fitted on hulls in this category.

The F90 is based on the F115B's four-cylinder power unit. The F90's reduction in weight and improved compactness is achieved by adopting a single overhead camshaft design (SOHC), actuating four valves per cylinder. This unique valve train design was first seen in Yamaha's award-winning F70A, one of the most popular engines in Australia. This design allows the F90 to achieve the weight savings of a single camshaft while still achieving the smooth and efficient performance only seen in 16 valve, four-cylinder engine of this size.



Utilising a compact and efficient 1.8litre power unit, the all-new F90 is as light as a featherweight, but punches hard like a heavyweight.

This lightweight powerhead configuration, refined shaping of the combustion chamber and lean fuel burn technology utilised at mid-range speeds, allows the F90 to deliver exceptional fuel efficiency.

The new F90 delivers a 10% improvement in fuel economy compared with the previous generation engine. The F90 is not only extremely fuel efficient it's also exceptionally smooth and quiet. Noise has been reduced through improved engine unit rigidity, muffler redesign as well as addition of an intake silencer.

The F90 is compatible with Yamaha's comprehensive range of command link digital gauges, with options of both basic back-lit LCD and premium full colour displays. The engine is also NMEA2000 compatible allowing the F90 to share information with third party multi-function displays, GPS and fish finders.

The amount of engine development and innovation that can be found in Yamaha's mid-range outboards is truly unique, and the new F90 strengthens Yamaha's product offering across this range. Yamaha has not resorted to a "one size fits all" style engine platform to minimize production costs. Not only does Yamaha have a class leading outboard motor in each horsepower category, Yamaha also produces the most diverse range of engine platforms within these horsepower categories. This reflects Yamaha's focus on delivering customer driven innovation to the marine marketplace. Each engine platform has been tailor-made to satisfy the individual requirements of customers and their boats. Within Yamaha's range, there is no need for Australian skippers to compromise when it comes to selecting a power option.

The all-new F90 neatly shares the same installation mounting holes as other outboards of similar sizes, making for an easy switch from a two-stroke, or other brands to the latest generation Yamaha four-stroke engine.

Available F90 models: F90LB & F90XB

## ***New F90***

Engine Type:	4-stroke, 4-cylinder, 16-valves, SOHC
Bore x Stroke	81.0 x 88.9mm
Displacement	1832cc
Compression Ratio	10.0:1
Fuel System	Electronic Fuel Injection
Fuel Type	Regular Unleaded
Ignition System	TCI Microcomputer
Engine Oil Capacity	3.2L / 3.0L with/without oil filter exchange
Weight (Dry with aluminium Prop)	162 kg (L), 166 kg (X)
Alternator	35 Amp
Warranty	4 Year Warranty, Unlimited Hours - recreational

## ***New F90 Highlights***

- Compact Size and Lightweight – 162 kg to 166 kg
- Larger Displacement from 1596cc to 1832cc
- Highly-efficient 16-valve Single Over Head Camshaft (SOHC) system
- ECU controlled with knock sensor – for efficient performance
- High Output Alternator – 35amp, generating 28amp @1000rpm
- Variable Trolling Speed (set speeds between 550rpm – 1000rpm)
- Compatible with Command Link Digital gauges, including full colour option
- 5mm Offset Crankshaft for improved efficiency and performance
- 60mm Throttle and Intake Silencer, improves performance and reduces noise
- Compatible with optional 6X4 Multi-Function Tiller Handle
- Labyrinth Exhaust System, muffles exhaust noise and improves efficiency