



## ***Small-engine convenience, big-engine performance***

If you're looking for the winning combination of easy handling and great control, look no further than the reliable F20.

This versatile, twin-cylinder 4-stroke combines power and responsiveness - and delivers a super-smooth ride. Outstanding fuel economy also means that you're being kinder to the environment, with exhaust emissions cut to a minimum.

Enjoy too, the many extras that only a Yamaha outboard delivers. Benefits like computer-controlled ignition, a special light-load starting system, a water-cooled fuel pump, and a large-volume silencer – all normally only found on larger engines. For commercial, professional or leisure use, it adds up to a winning formula.

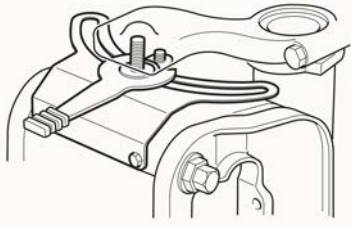
- ▶ One-piece, solid top cowling
- ▶ PrimeStart™ system for easy starting
- ▶ Manual and Electric start options
- ▶ Power Tilt option
- ▶ Optimum power-to-weight ratio
- ▶ Front-mounted shift lever for easy control
- ▶ Light-load manual starter
- ▶ Convenient vertical & horizontal storage positions
- ▶ High-output alternator
- ▶ Shallow Water Drive for cruising close inshore
- ▶ Single-lever steering friction (Tiller model)
- ▶ Fresh Water Flushing system

## ***Technology the world trusts***

Whether you enjoy the thrill of water sports or just relaxing on your boat, choose the engine that helps you get more out of your time on the water.

Every engine in our range uses Yamaha's latest marine technologies, engine layouts and ingenious intake and exhaust systems - and our 4-stroke development has been so successful because, rather than just adapting ordinary automotive engines for the water, we design and build our marine-specification 4-strokes from scratch.

And, without compromising on power, performance or usability, our specially designed marine engines also help preserve the environment through the use of pioneering clean-burn technologies.



### Steering friction

You'll find the F20 very easy to control and comfortable to drive, thanks to its many features - from the front-mounted shift lever and single-lever steering friction adjuster to the light-load recoil starter. A built-in handle on the steering bracket and resting pads on the rear, make for convenient handling and portability too.

### PrimeStart™

Start your outboard engine as easily as starting a car – even from cold. Exclusive to Yamaha, the PrimeStart™ system ensure that the engine fires first time, every time you engage either the Electric or Manual Start.

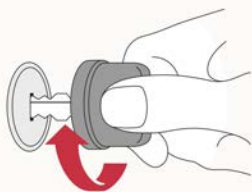
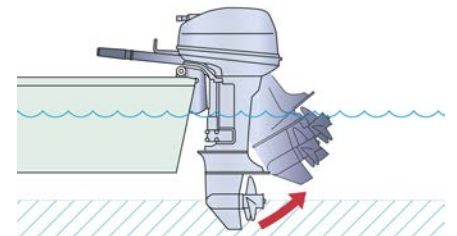


### High-output alternator

Never get left short. A High-output alternator ensures that power is always available to start the engine – even after prolonged periods of idling or when you've been running at low revs and using numerous accessories.

### Shallow Water Drive system

Cruise towards the shore with confidence thanks to Yamaha's Shallow Water Drive system. Offering ample protection for your propeller, it allows you to get as close as you need to be, no matter whether you're cruising a murky lake or the crystal clear shallows of the sea.

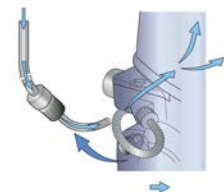


### F-N (Forward-Neutral-Reverse) gears for easy control

Manual gear selection allows the engine to be warmed up in Neutral. The propeller will not turn until Forward is selected for safer idling. Ensures smoother acceleration and better control especially when turning. On Electric Start versions, the power supply to the starter motor is isolated until Neutral is selected.

### Fresh Water Flushing system

An easy-access, front-mounted connector allows you to easily flush salt and dirt from the waterways without having to run the engine: just connect a hose and you're ready to go. This is a very efficient way to reduce corrosion and extend the life of your outboard.



<i>Engine</i>	<i>F20B</i>
Engine type	4-stroke
Displacement	362 cm <sup>3</sup>
No. of cylinders/configuration	2/In-line, SOHC
Bore x stroke	63.0 mm x 58.1 mm
Prop shaft output at mid range	14.7kW / 5,500 rpm
Full throttle operating range	5,000 - 6,000 rpm
Lubrication system	Wet sump
Fuel Induction System	1-Carb
Ignition / advance system	CDI
Starter system	Electric (E, EH, EP), Manual (MH) with prime start™
Gear ratio	2.08 (27/13)

<i>Dimensions</i>	<i>F20B</i>
Recommended boat transom height	S:438mm L:565mm
Weight with propeller	F20BMHS: 51.0 kg, F20BMHL: 53.0 kg, F20BES: 52.0 kg, F20BEL: 54.0 kg, F20BEHL: 55.0 kg, F20BEPS: 58.0 kg, F20BEPL: 60.0 kg
Fuel tank capacity	separate, 25 litres
Oil pan capacity	1.8 litres

<i>Additional features</i>	<i>F20B</i>
Control	Tiller handle (MH, EH), Remote control (E, EP)
Trim & tilt method	Power Tilt (EP), Manual (MH, EH, E)
Lighting Coil / Alternator	12V - 10A with rectifier/regulator **
Tilt limiter (only for remote control specs)	-
Engine immobiliser	-
Propeller	Included
Counter Rotation Model	-
Shallow Water Drive	Standard
Digital Network Gauge II (LCD Color)	-
Digital Network Gauge (Round/Square)	-
Variable Trolling RPM	-
Dual Battery Charging System	-
Shift Dampener System (SDS)	-
Remark	The kW data in this sheet is based on the ICOMIA 28 standard, measured at the prop shaft, ** Optional for MH model, standard for E model