

DF9.9B, DF15A, DF20A



Model Selection



Way of Life!

- **DF9.9BTHL**
- **DF9.9BTL**
- **DF15AS, DF20AS**
- **DF15AES, DF20AES**
- **DF15AEL, DF20AEL**
- **DF20ATL**

Note: A = 2nd generation model
B = 3rd generation model
E = Tiller control, electric start
TH = Tiller control, electric start, power tilt
T = Remote control, electric start, power tilt
S = For boats with 15" transom
L = For boats with 20" transom

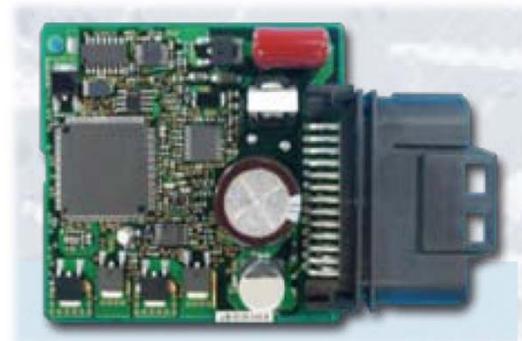


Batteryless Fuel Injection



Way of Life!

- The DF9.9B, DF15A and DF20A are the first outboards in this category to offer fuel injection
- Fuel injection has many advantages over carbureted systems, especially with the leaner air/fuel ratios required for compliance with emission standards
- Advantages include:
 - Easier starting
 - Smooth running during warm-up
 - Smooth running throughout the operating range
 - Lower emissions
 - Reduced fuel consumption

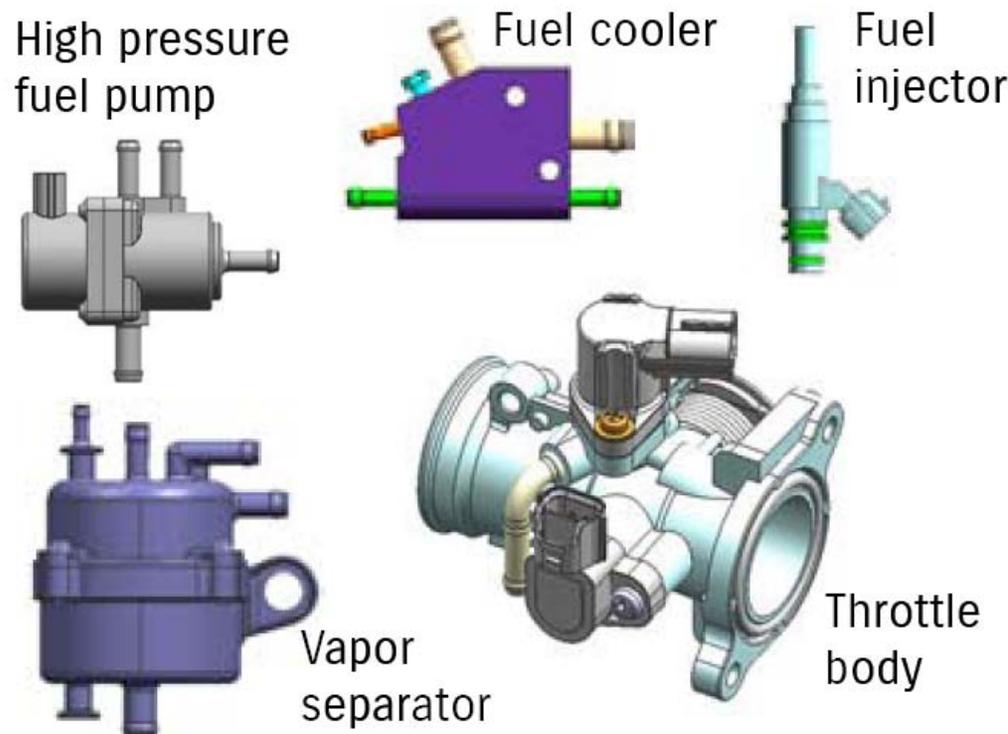


Batteryless Fuel Injection



Way of Life!

- The system operates without a battery and consists of a compact and light weight inline high-pressure fuel pump, throttle body, small fuel cooler, vapor separator and fuel injector



Oil Change Reminder System



Way of Life!

- The oil change reminder system will advise the operator when the oil needs to be changed by flashing the light on the front of the motor
- On remote models, the light will flash when the ignition switch is turned on and the buzzer will sound for several seconds after the engine is started
- After the oil is changed, cancel the reminder using the specified pattern with the engine stop switch



Caution Systems



Way of Life!

- To warn the operator of a problem, the DF9.9B/15A/20A is equipped with over-revolution, low oil pressure and overheat caution systems
- When a problem occurs, the system will activate the rev limit, turn the caution lamp on or sound the buzzer on remote control models



Self-Diagnostic System



Way of Life!

- **The DF9.9B/15A/20A is equipped a self-diagnostic system to assist the technician if a problem occurs**
- **Trouble codes and engine data can be viewed using the PC based Suzuki Diagnostic System (SDS).**

| Circuit | Diagnostic Code |
|---|-----------------|
| Manifold Absolute Pressure (MAP) Sensor 1 | 3-4 |
| Cylinder Temperature Sensor | 1-4 |
| Intake Air Temperature (IAT) Sensor | 2-3 |
| Crankshaft Position (CKP) Sensor | 4-3 |
| Camshaft Position (CMP) Sensor | 2-4 |
| Air intake system | 2-2 |
| Manifold Absolute Pressure (MAP) Sensor 2 | 3-2 |
| Fuel injector | 2-3 |
| Throttle Position (TP) Sensor | 2-1 |
| Overcharging (regulator/rectifier) | 1-1 |
| Oil pressure switch | 5-3 |

Power Tilt



Way of Life!

- **Power tilt provides greater convenience and easier operation**
- **Power tilt is available on the DF9.9BTHL, DF9.9BTL and DF20ATL**

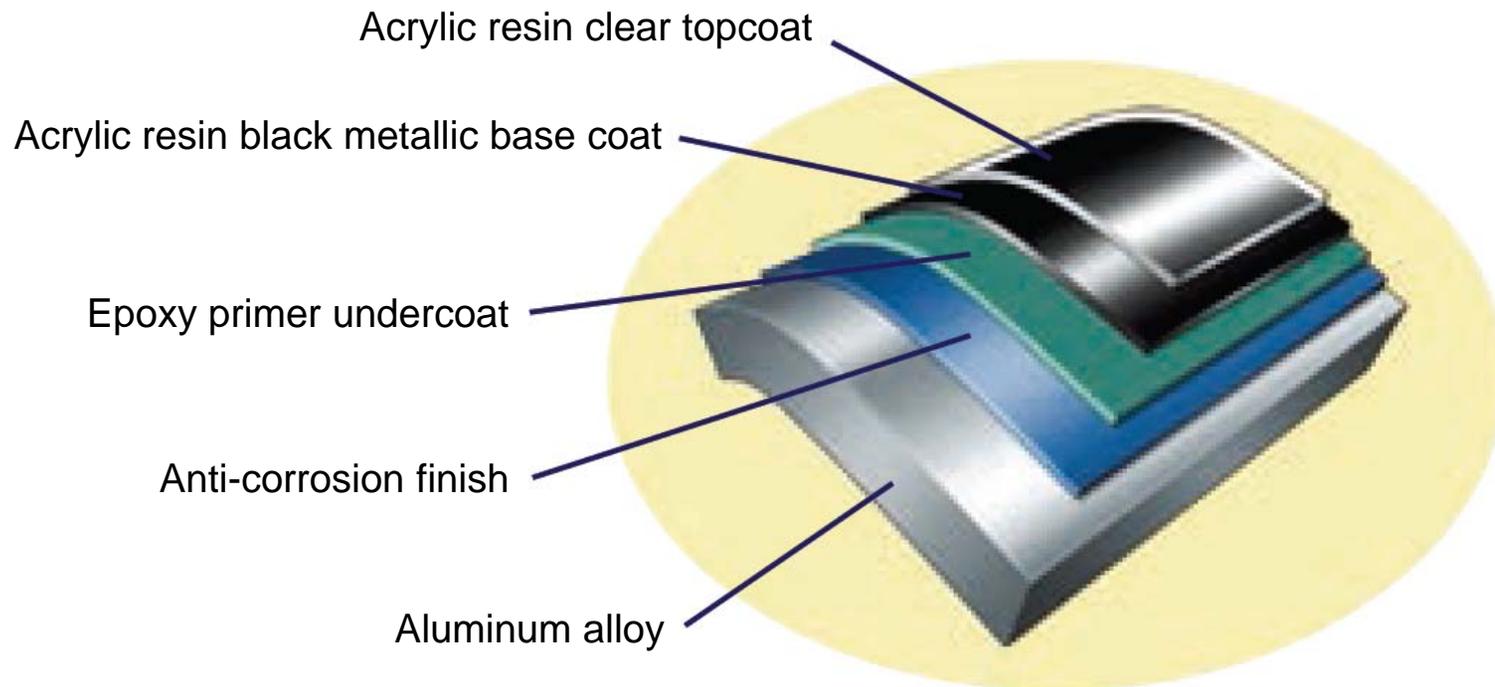


Anti-Corrosion Finish



Way of Life!

- **The DF9.9B, DF15A and DF20A are protected against corrosion by a special Suzuki anti-corrosion finish applied to the aluminum alloy**

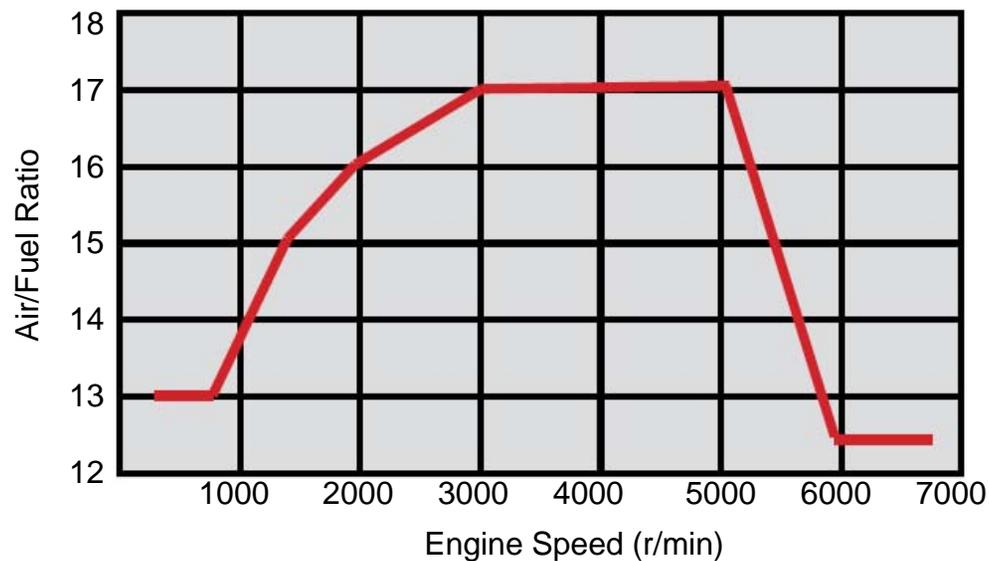


Lean Burn Control



Way of Life!

- **Lean Burn Control has been adopted to the latest generation Fuel Injection Systems including the DF9.9B, DF15A and DF20A**
- **This graph shows the DF20A Lean Burn Air/Fuel Ratio**

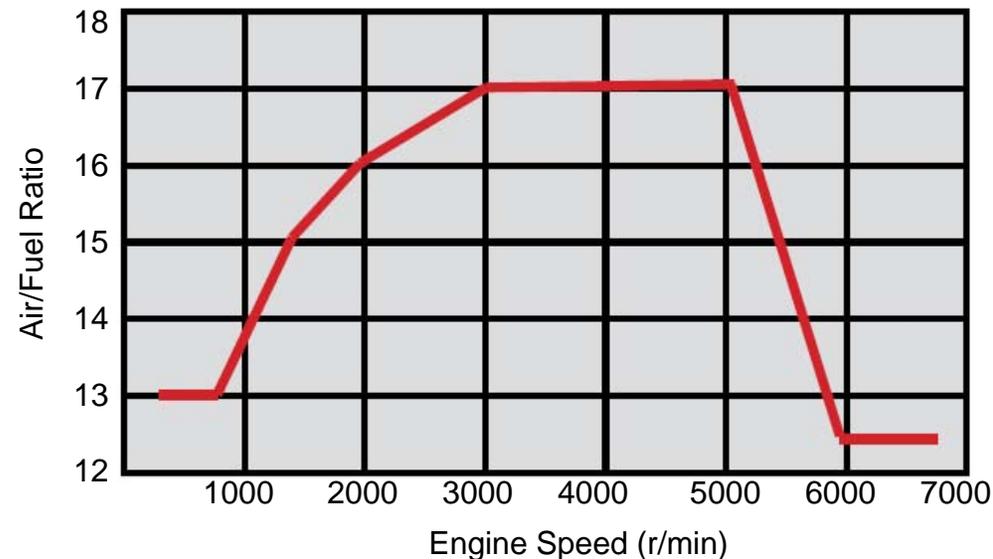


Lean Burn Control



Way of Life!

- The A/F ratio at partial throttle opening for most outboards is 13:1 to 14.7:1 while the A/F ratio at partial throttle opening for the DF20A is 17:1
- As a result, the DF20A consumes less fuel and emissions are reduced

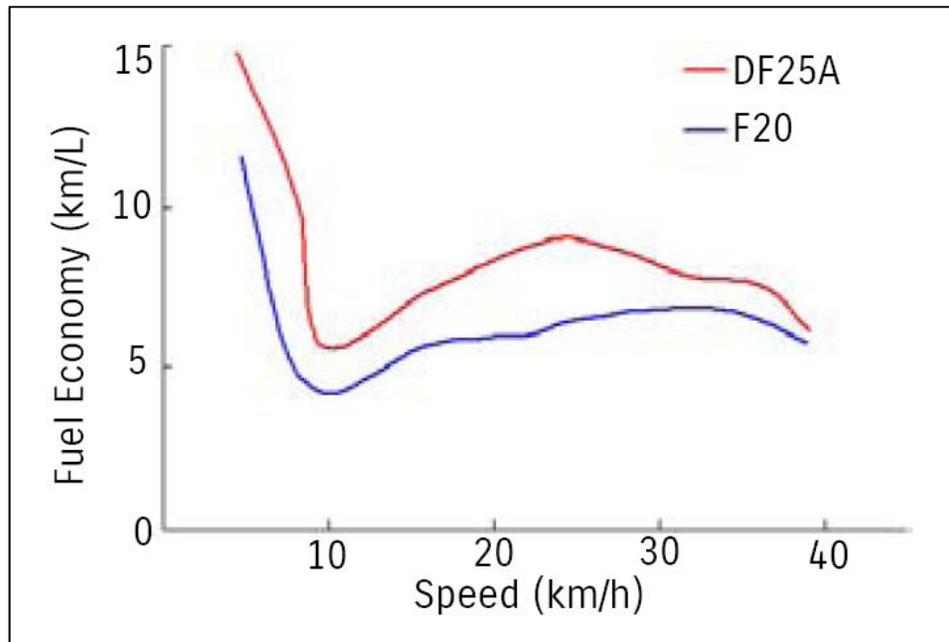


Fuel Economy



Way of Life!

- **With fuel injection and lean burn control fuel economy has improved compared to previous generation carbureted models**
- **The illustration compares the fuel economy of the DF20A to the Yamaha F20**



When tested under the same conditions, the DF20A can travel more kilometers on 1 litre of fuel:

- 27% further at 5 km/h
- 50% further at 20 km/h
- 7% further at WOT

Light Weight



Way of Life!

- Light weight is of particular importance on portables to make them easy to carry and to promote good acceleration and speed
- The DF20A weighs only 44 kg which is the lightest in the 20 HP class and the same weight as the original DF15

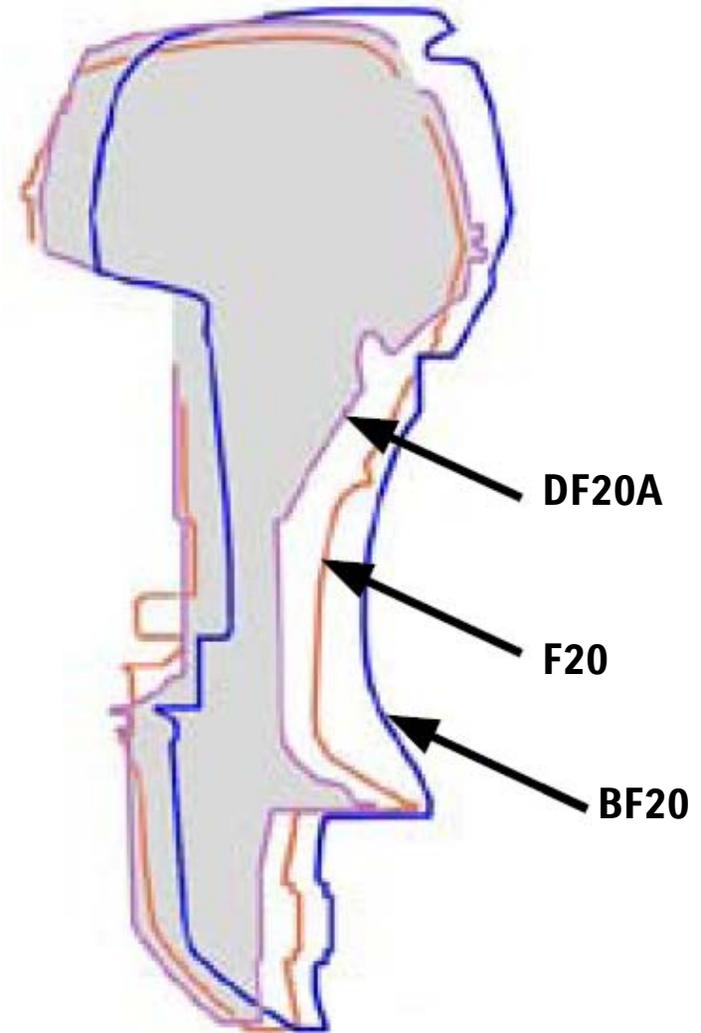


Compact Size



Way of Life!

- The DF20A is the most compact outboard in its class
- Length x Width x Height :
 - DF20A: 520 x 336 x 1,220 mm
 - F20: 545 x 350 x 1,205 mm
 - BF20: 510 x 350 x 1,240 mm

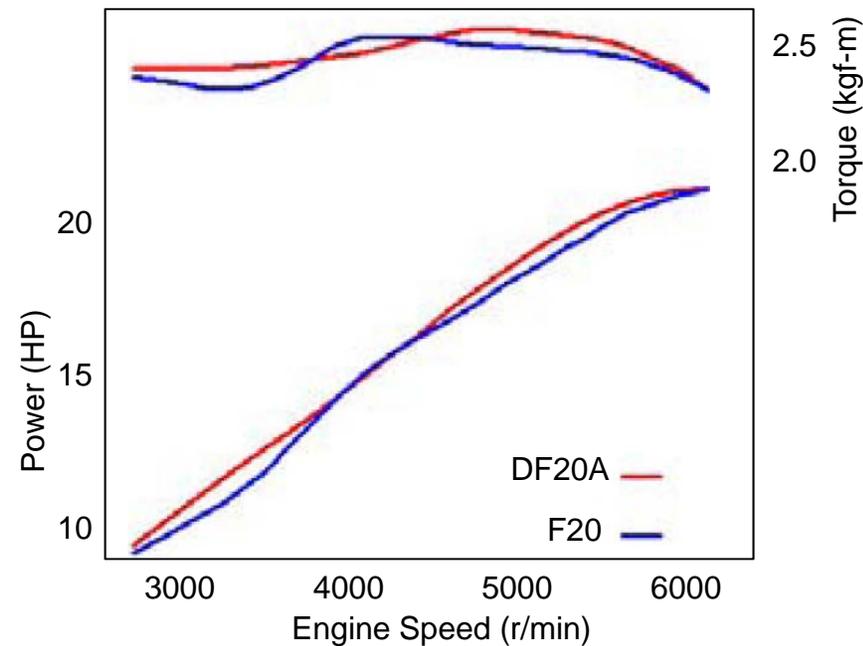


Power & Torque



Way of Life!

- The power and torque curve of the DF20A is very smooth, making the engine easy to operate
- The illustration compares the power and torque of the DF20A to the Yamaha F20

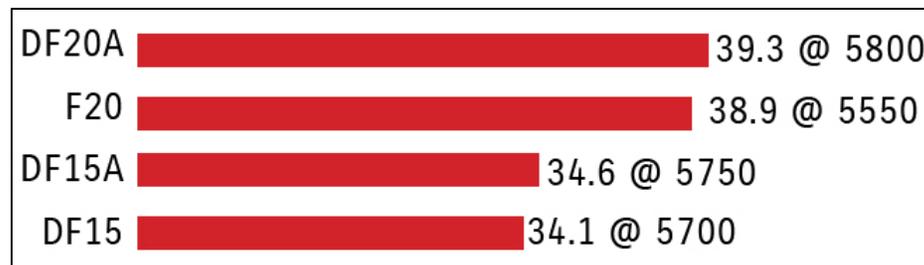


Speed & Acceleration

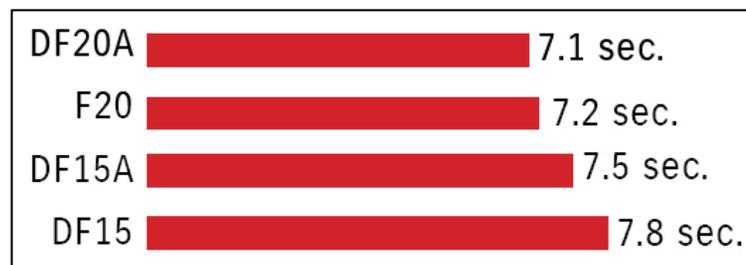


Way of Life!

- The charts compare the maximum speed and acceleration of the DF20A, F20, DF15A and DF15 on the same 3.4m rib boat



Maximum Speed (km/h)



Acceleration (0 - 50m)

Easy Starting



Way of Life!

- **Recoil starting is made easy with a modern design recoil assembly, a decompression system built into the camshaft and batteryless fuel injection**



- **The following equipment is supplied with the DF9.9B/15A/20A:**
 - 12 L fuel tank and hose
 - Engine mounting hardware
 - Owner's Manual and tool set
 - Remote control box and drag link (DF9.9BTL, DF20ATL)
 - 3 x 9 $\frac{1}{4}$ x 9 propeller (DF15AS/AES/AEL, DF20ATL)
 - 3 x 9 $\frac{1}{4}$ x 10 propeller (DF20AS/AES/AEL)
 - 4 x 10 x 5 high thrust propeller (DF9.9BTL/BTHL)



Specification Comparison



Way of Life!

- **4-stroke outboards in this category are commonly twin cylinder with single overhead camshaft and 2-valves per cylinder**
- **What sets the Suzuki apart from the competition in this category is light weight and batteryless fuel injection**

| | Suzuki | Yamaha | Honda | Mercury |
|-------------------|-----------|---------|---------|---------|
| Model | DF15A/20A | F15/20 | BF15/20 | 15/20 |
| Displacement | 327 cc | 362 cc | 350 cc | 351 cc |
| Cylinders | L2 | L2 | L2 | L2 |
| Valve layout | OHC 2V | OHC 2V | OHC 2V | OHC 2V |
| Fuel system | Injection | Carb | Carb | Carb |
| Weight (man, 15") | 44 kg | 51.7 kg | 46 kg | 52 kg |



Way of Life!

