



THE  
**ULTIMATE**  
OUTBOARD MOTOR

PRODUCT INFORMATION  
**DF140BG/DF115BG**

Drive by wire





# World's First Drive By Wire Model in 4-Stroke 140/115PS\*

\*140PS(103kw), 115PS(84.6kw)

DF140A/115A's Reliability & Fuel Efficiency + Cutting Edge Technology

## Drive By Wire

- Operation from the remote control is delivered to outboard via an electric signal and not by the traditional mechanical control cables.

### Advantage

- Smooth Shift & Operation
- Easy Rigging
- Increased Fuel Efficiency
- Luxury Remote Control



## Dynamic & Smooth Design

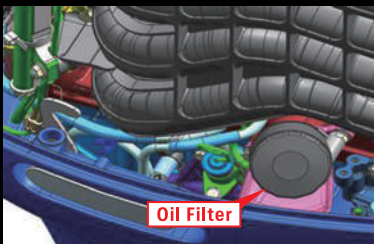


## Easy Maintenance

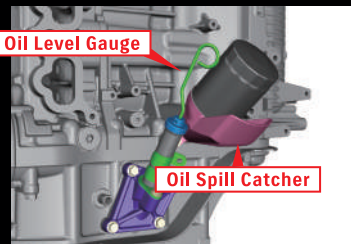
- Designed to be easy maintenance for the benefits of the customers.

### Advantage

- Easy Access Oil Filter:  
Can be replaced simply by removing the top cover
- Oil Spill Catcher:  
A tray is added around the oil filter to catch oil which comes out when exchanging the oil filter
- Oil Level Gauge:  
Able to use  $\Phi 15$  oil changer hose



Easy access Oil Filter



Oil Spill Catcher & Oil Level Gauge

DF140BG

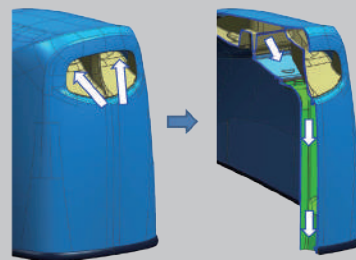
## DURABILITY & RELIABILITY

### Newly Designed Air Intake System

- The air intake structure was reviewed

#### Advantage

- Delivers higher power output
- Increased ability to remove water from air taken into cowl
- Decrease in the air intake temperature

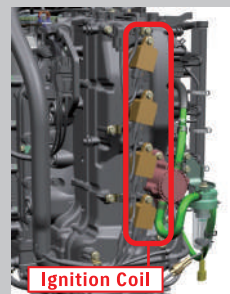


### Direct Ignition

- Integrates the ignition coils into the spark plug caps

#### Advantage

- Reduces the number of parts and simplifies the wiring system
- Removing the high tension cord enables the ignition to generate spark efficiently which leads to the improvement of combustion efficiency



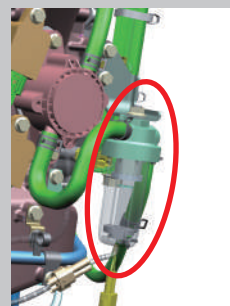
### Water Detecting System

- It helps to protect the engine from water in the fuel
- Using bigger fuel filter than DF140A/115A
- Optimized Fuel Filter position



#### Advantage

- Can avoid water in fuel
- Increased Durability & Reliability
- Easy replacement of fuel filter



Bigger Fuel Filter

### More Features to contribute to Durability

- Large capacity Fuel Pump : Capable to rig on various kinds of boats
- Optimaized O2 Sensor mounting position : Increased Durability
- Using Zinc-containing Rustproof Coating bolt : Increased Durability

## EASY & COMFORT

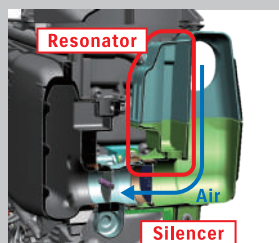
### Quiet Operation

- Intake noise is suppressed with a resonator, which makes the noise from the outboard quieter



#### Advantage

- Less noise, making boating more pleasant.

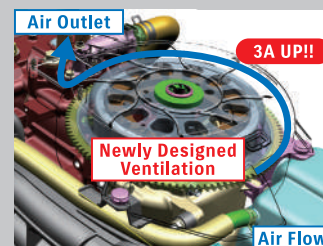


### Alternator Output

- Newly designed ventilation which cools the coils better

#### Advantage

- 3Amp better alternator output at idle speed range that is roughly equivalent to the necessary output of SMD12/SMD16





# PERFORMANCE

## High Compression Ratio

- To achieve the optimized mask, port and piston combination, the shape of parts was simulated over 1,000 combinations and then tested thoroughly with the carefully selected parts.

### Advantage

- Achieved 10.6 Compression Ratio which contributes to high torque.

## Offset Drive Shaft



- The engine powerhead is positioned closer to the front, moving the outboard's center of gravity forward.

### Advantage

- Less vibration
- More compact
- Stable steering performance

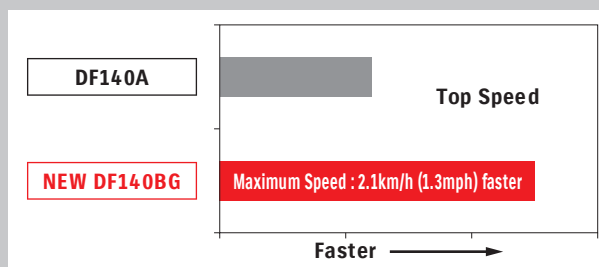
## 2-Stage Gear Reduction



- This system which incorporates the Offset Driveshaft features a first stage reduction between the crankshaft and drive shaft, and a second stage reduction inside the gear case.

### Advantage

- High Torque even with big loads.
- Powerful enough to rotate larger propeller



# ECOLOGY & ECONOMY

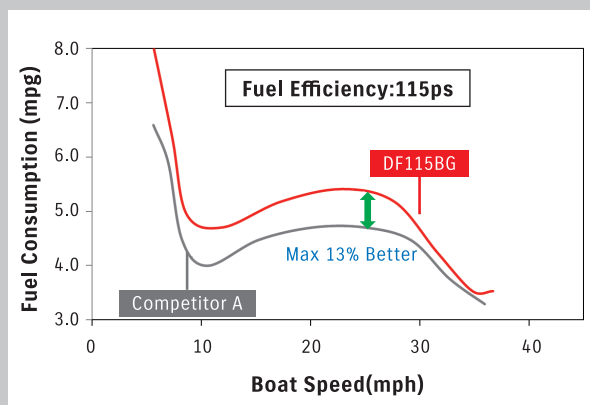
## Lean Burn Control System



- The Lean Burn Control System supplies the appropriate amount of fuel and air mixture depending on the navigation conditions.

### Advantage

- Significant improvement in fuel economy in all speed ranges especially at cruising speed.
- Fuel is saved and gasoline costs are cut thanks to improved fuel economy.



Based on the Suzuki's test data.

\*This fuel data may vary depending on the condition.





DF115BG

# High Durability

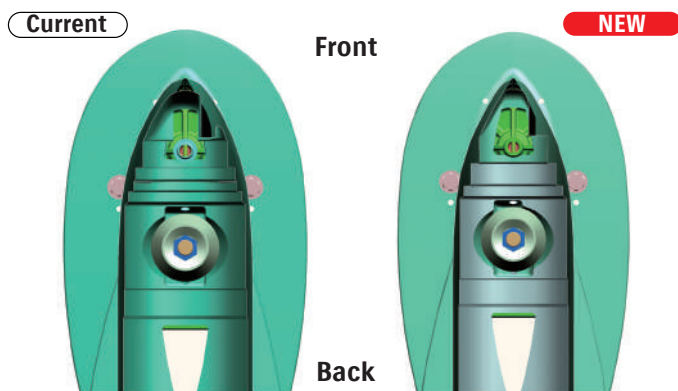
## Improved Gear Case

- By optimizing the gear oil passage, the spinning pinion gear generates negative pressure and it helps gear oil circulation.

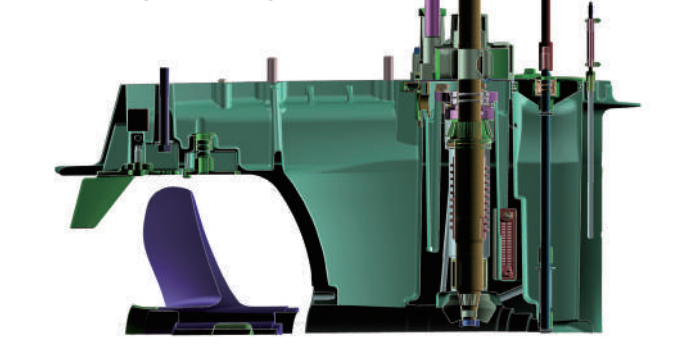
## Advantage

- It lowers gear oil temperature and contributes to the increased durability of pinion gear.

## Gear Case (Bottom View)



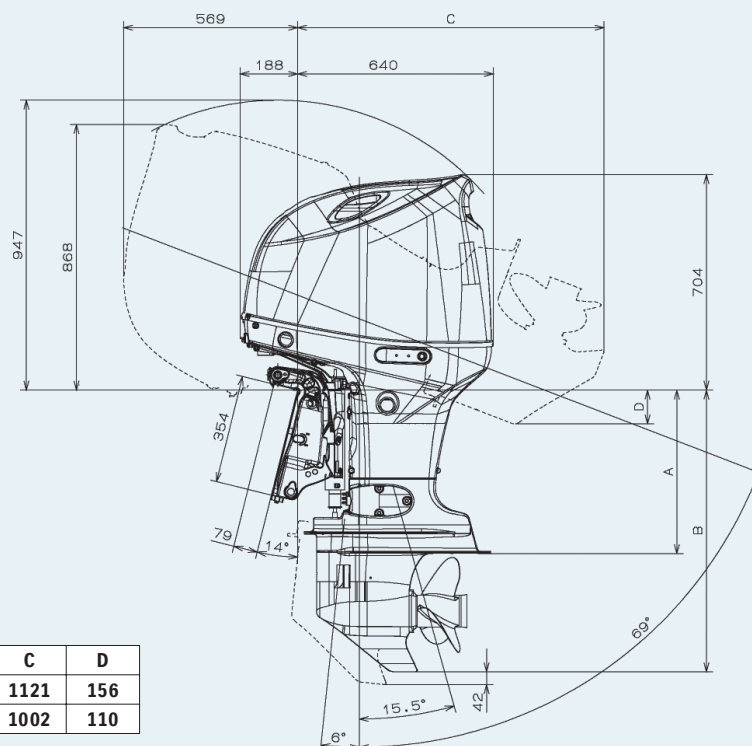
## Gear Case (Side View)





# DIMENSIONS

Unit: mm



Dimension	A	B	C	D
TRANSOM:X	661	1047	1121	156
TRANSOM:L	534	920	1002	110

## FEATURE & SPEC SHEET

### DF140BG /DF115BG FEATURES

BODY COLOR	BLACK	●
	NEW WHITE	●
SUZUKI PRECISION CONTROL (SPC)		●
NEW DYNAMIC & SMOOTH DESIGN		●
RESONATOR INTEGRATED WITH THE SILENCER		●
OFFSET DRIVE SHAFT		●
2-STAGE GEAR REDUCTION SYSTEM		●
NEW DESIGNED AIR INTAKE SYSTEM		●
SUZUKI WATER DETECTING SYSTEM		●
SUZUKI LEAN BURN CONTROL SYSTEM		●
UPGRADED COMPRESSION RATIO		●
UPGRADED VENTILATION FUNCTION		●
EASY ACCESS OIL FILTER		●
EASY ACCESS FUEL FILTER		●
OIL SPILL CATCHER		●
USABLE OIL LEVEL GAUGE		●
DUAL ENGINE FLUSH PORT		●
DIRECT IGNITION		●
SELF-ADJUSTING TIMING CHAIN		●
O2 SENSOR FEEDBACK CONTROL SYSTEM		●
LARGE CAPACITY FUEL PUMP		●
ZINC-CONTAINING RUSTPROOF COATING BOLT		●
SUZUKI TROLL MODE SYSTEM*1		○
TILT LIMIT SYSTEM		●
SUZUKI ANTI-CORROSION SYSTEM		●
SDSM*2		○
KEYLESS START SYSTEM		●
SUZUKI EASY START SYSTEM		●
OVER-REV. LIMITER		●
LOW OIL PRESSURE CAUTION		●

● : Standard Equip. ○ : Optional Equip.

\*1: Available with SMD, SMG, or Troll Mode Switch Panel \*2: Available with SMD or SMG

### DF140BG /DF115BG FEATURES

RECOMMENDED TRANSOM HEIGHT (MM)	L:511 / X:638
STARTING SYSTEM	Electric
WEIGHT (KG)	DF140BG : 188/192 , DF115BG : 190/194
ENGINE TYPE	DOHC 16-Valve
FUEL DELIVERY SYSTEM	Multi-Point Sequential Electric Fuel Injection
NO. OF CYLINDERS	4
PISTON DISPLACEMENT (cm <sup>3</sup> )	2,045
COMPRESSION RATIO	10.6
BORE X SROKE (mm)	86 X 88
MAXIMUM OUTPUT (kw)	84.6 / 103
FULL THROTTLE OPERATING RANGE (RPM)	DF140BG : 5,600-6,200 DF115BG : 5,000-6,000
STEERING	Remote
OIL PAN CAPACITY (L)	5.5
RECOMMENDED FUEL	RON91 / AKI87
IGNITION SYSTEM	Fully-transistorized
ALTERNATOR	20A/700rpm , 40A/6000rpm
ENGINE MOUNTING	Share Mount
TRIM METHOD	Power Trim and Tilt
GEAR RATIO	2.59 : 1
GEAR SHIFT	F-N-R
EXHAUST	Through Prop Hub Exhaust
PROPELLER SELECTION (PITCH)	15"-25"(RR), 17"-23"(CR)



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