

*Kingfish 25*



New Model Information

# ***KINGFISH***

# ***25***



# Kingfish 25 Differences from Moray 25



## Style

New generation looking like Wahoo 20

## Electrical Part

New layout

## Reliability

- All electric parts are made in Japan.
- SMC top cowling (more solid).
- Pistons, Connecting rods, Valves are common to Dorado 60.
- Newly designed Cylinder-body and head.

## Tiller Handle

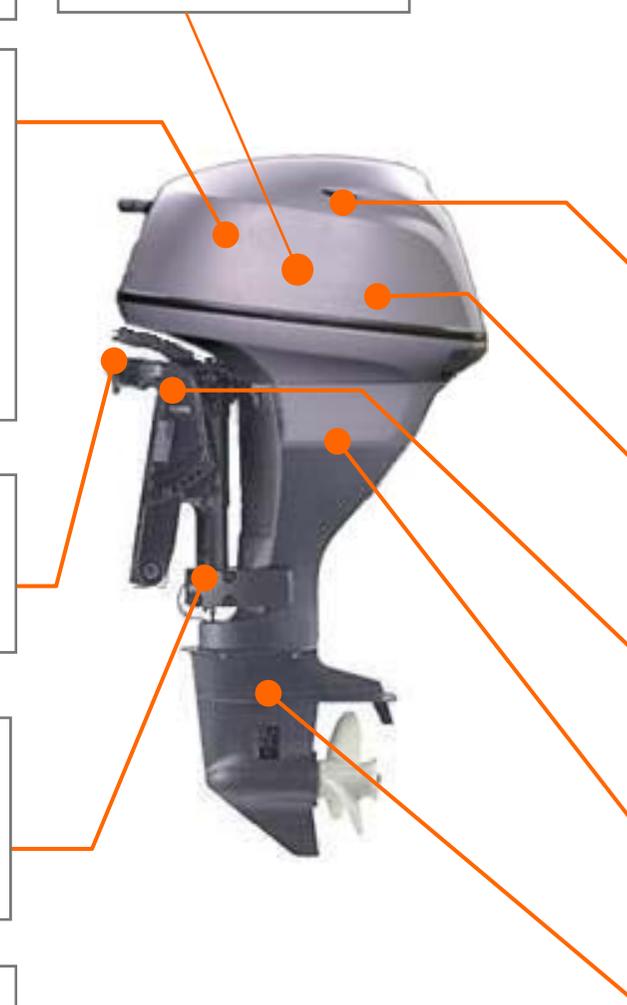
- Same type as Wahoo 20

## Vibration

- Same level as Moray 25, but not as good as 3 cylinder.

## Low cost

Production cost reduction.



## **Main Component**

### COWL

TOP : New  
BOTTOM : New

### ENGINE

BODY : New  
HEAD : New  
PISTON : 6C5

### BRACKET

STD-M : 65W  
STD-PT : 65W  
HT-PT : 67C

### UPPER

STD : New  
HT-L : Aruana 40

### LOWER

STD : 61N  
HT : 67C

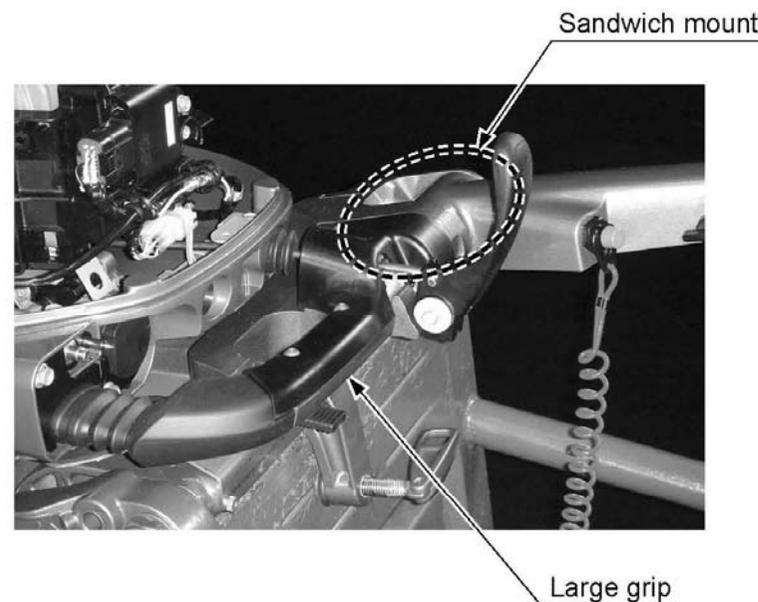
General Specification		
<b>Performance</b>		
	Full throttle operating range	5000–6000 r/min
	Maximum output	18.4 kW@5500 r/min
	Maximum fuel consumption	9.2 L/h@6000 r/min
<b>Engine</b>		
	Type	4–stroke L
	Number of cylinder	2
	Displacement	498.0 cm <sup>3</sup>
	Bore × stroke	65.0 x 75.0 mm
	Compression ratio	9.90 :1
	Number of carburetor	1
	Ignition system	CDI
	Alternator output	80 W
	Starting carburetion system	Prime start
	Advance type	Micro computer
	Exhaust system	Through propeller boss
	Cooling system	Water
	Lubrication	Wet sump
<b>Fuel and oil</b>		
	Recommended fuel	Regular unleaded gasoline
	Fuel tank capacity	Ltouch up
	Recommended engine oil	4–stroke outboard motor oil
	Recommended gear oil	Hypoid gear oil SAE#90
	Gear oil quantity	0.320 L

<b>Total engine oil quantity (oil pan capacity)</b>		
	Without oil filter replacement	1.7 L
	With oil filter replacement	1.9 L
<b>Bracket</b>		
	Tilt angle	+8 ~ +24 °
	Tilt up angle	64 °
	Shallow water crushing angle	29/43 °
	Steering angle (left + right)	45+45 °
<b>Drive unit</b>		
	Gear positions	Forward–neutral–reverse
	Gear ratio	2.08 (27/13)
	Gear type	Spiral bevel gear
	Clutch type	Dog clutch
	Propeller direction	Clockwise
	Propeller drive system	Spline
	Propeller mark	F
<b>Spark plug</b>		
	Spark plug (NGK)	DPR6EA–9
	Spark plug with resistor (NGK)	DPR6EA–9

## STEERING BRACKET

A sandwich structure has been employed to mount the tiller handle, which will obtain further durability and reliability.

Large grip has been formed to handle the engine such as mounting, removing, transporting, storing, etc.



Steering bracket

## NEUTRAL SHIFT LIMITER

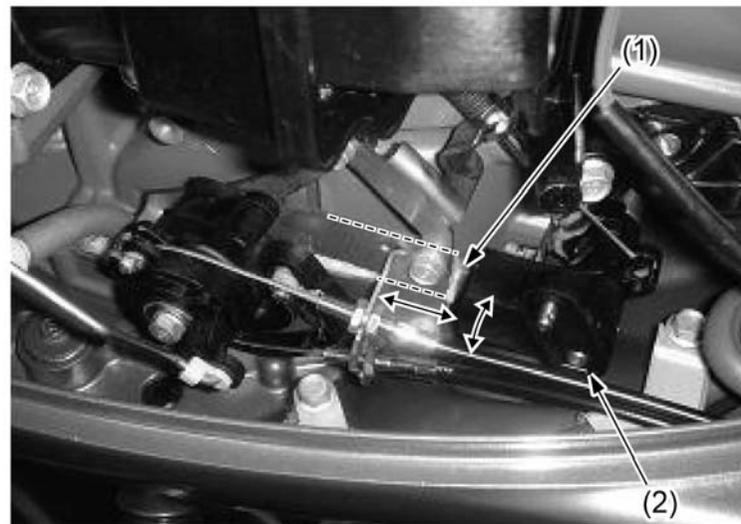
The neutral shift limiter has been employed as a safety device.

Shifting in gear position is only allowed when the throttle is fully retard position.

When the throttle is opened for warming up in the neutral, the plunger (1) is stuck out to immobilize

the rotation of shifting shaft (2).

- This structure is the same as the current Wahoo 15 and 20.



Neutral shift limiter

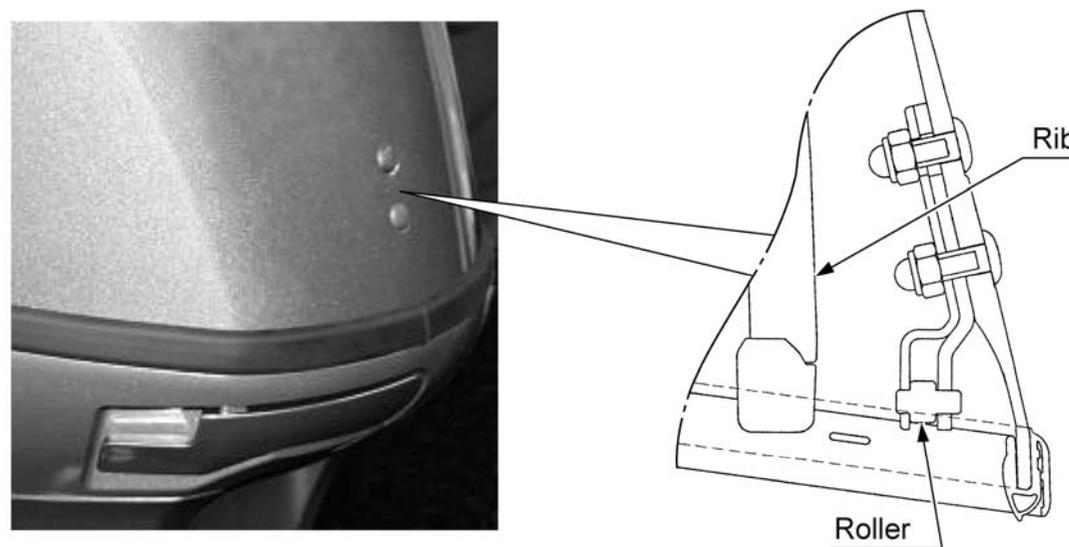
## TOP COWL LOCK ROLLER

The roller has been used for the locking point of top cowl.

This can reduce the friction of lock lever when turning the lever, and obtains easier locking or unlocking the top cowl.

So, the compact lock lever has been employed and put into the bottom cowl.

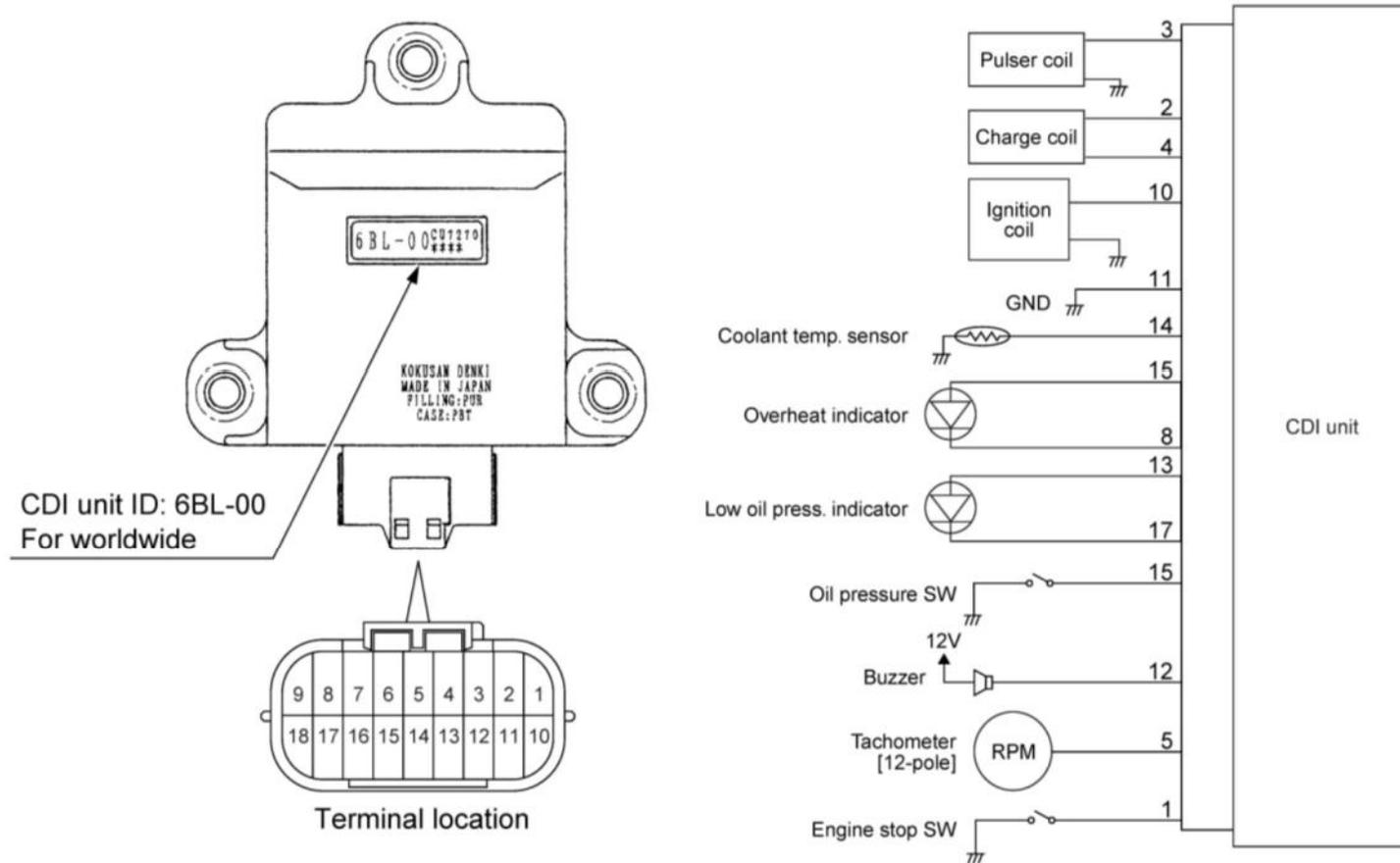
The supportive ribs for top cowl have been formed 4 points.



Top cowl lock roller

## CDI UNIT

A new CDI unit has been employed.



CDI unit

### **OVER-REV CONTROL**

This outboard motor is equipped with an over-revolution control system to protect the engine from a damage.

If the engine speed exceeds 6200 rpm, the ignition are partially shut-off.

When the engine speed drops below 6200 rpm, all cylinder re-activates.

**WARNING CONTROL**

This outboard motor is equipped with warning control functions to avoid serious engine damage.

The engine speed is limited to approximately 2000 rpm due to partial cylinder ignition if the engine

overheats or the oil pressure has dropped.

If the oil pressure switch is ON or coolant temp. sensor detects the specific value, the engine is controlled as shown in the table.

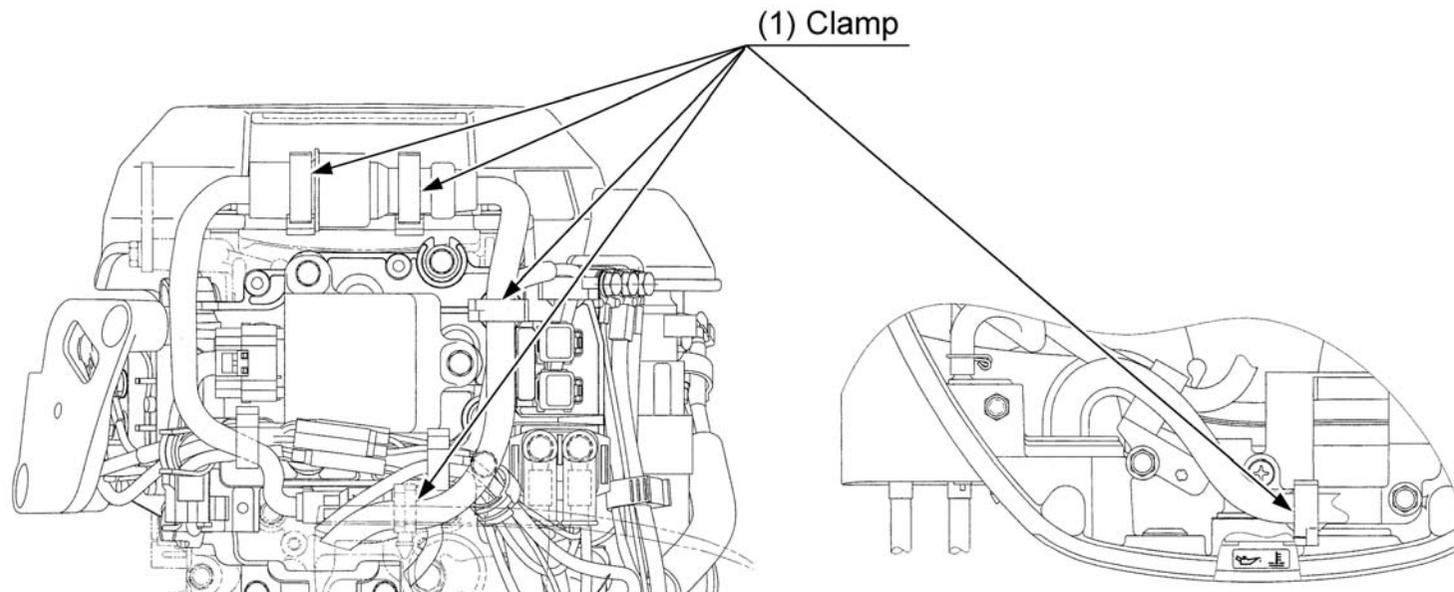
Detector	Coolant temp. sensor	Oil pressure SW
Criterion	Sensor has detected above 93°C (200°F), after engine has run for 120 sec. or run for 25 sec. at over 2000 rpm, since starting.	Switch is on (49 kPa, 0.5 kgf/cm <sup>2</sup> , 7 psi) after 10 sec. and engine has run at over 2000 rpm, since starting.
Activation	Overheat indicator lights and buzzer sounds.	Oil indicator lights and buzzer sounds.
Cancelled	Sensor has detected below 88°C (190°F) and engine speed has dropped below 1200 rpm.	Switch is off, and engine stops.

\* Warning indicators will light when the ignition switch is turned ON.

\* Buzzer will sound when starting the engine.

## MAIN WIRE-HARNESS INSTALLATION

- 1) Pass the main wire-harness through the specific position of rigging grommet.
- 2) Connect and route the main wire-harness as shown in the figure, and secure with the original clamps (1).
- 3) Adjust the main wire-harness so that it has a little slack.



Main wire-harness installation

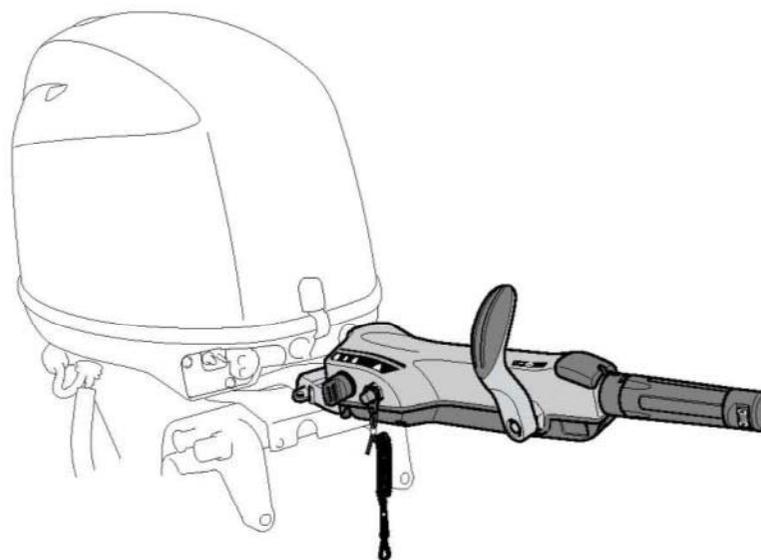
## 6X4 MULTI-FUNCTION TILLER HANDLE (OPTIONAL)

The multi-function tiller handle is prepared as an option.

**KIT P/N: 6X4-42103-03**

Part name	Part No.	Q'ty	Remarks
Tiller handle assy	6X4-42101-23	1	w/ PTT SW
Lock nut	90185-10051	2	M10
Grommet	65W-42725-21	1	For previous F25
STR friction assy	65W-42508-00	1	
Setup manual	6X4-2819K-13	1	English

\* For installation, see the instruction that is accompaniment with the kit.



Optional 6X4 multi-function tiller handle