

SPEEDOMETER

The speedometer indicates an approximate speed of the boat through the water by measuring the impact force of the water with a pressure gauge.

This impact force will vary with the density of the water and the speed of the impact.

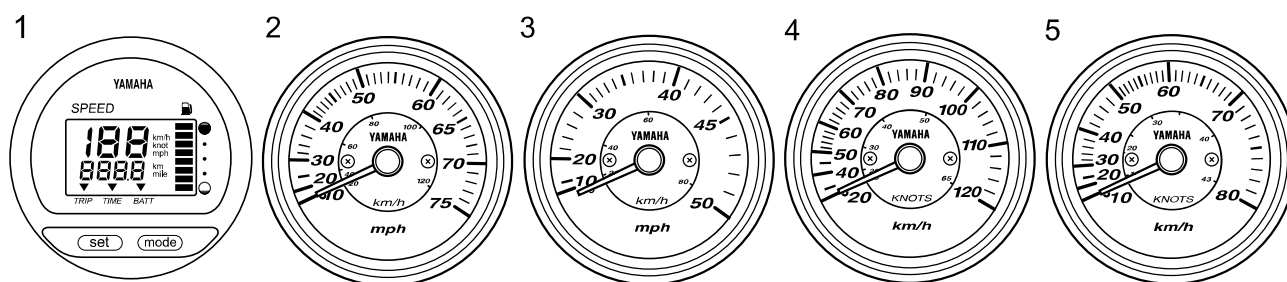
The density can be vary by the purity of the water and the temperature of water.

The speed of water impact can vary by the location of the speed sensor and its relation to the water flow off the area of the boat in front of the sensor.

Because of these variables, the true speed of a boat can vary from the indicated speed on the meter.

Especially, the digital speedometer uses LCD readouts for speed, clock, trip distance, fuel tank level, and warning information for low fuel level and abnormal battery voltage.

The speed can be calibrated for mph, km/h, and knots.



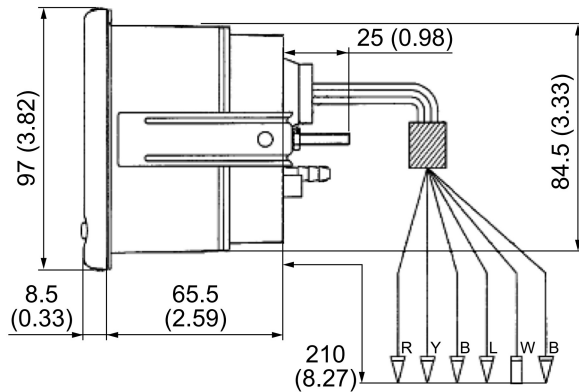
SPEEDOMETER APPLICATIONS

Ref. No.	Description	Part No.	Applicable model
1	Digital multifunction	6Y5-83570-S6	Above 40 (3-cyl) Above F30 [Mechanical RC]
		6Y5-83500-30	For Yamaha manufactured boats (Japan)
2	Analog, BLK panel 0 – 75 mph (20 – 120 km/h)	6Y7-83510-00	Above 40 (3-cyl) Above F30 [Mechanical RC]
	Analog, WHT panel 0 – 75 mph (20 – 120 km/h)	6Y7-83510-10	
3	Analog, BLK panel 0 – 50 mph (20 – 80 km/h)	6Y7-83510-20	
	Analog, WHT panel 0 – 50 mph (20 – 80 km/h)	6Y7-83510-30	
4	Analog, BLK panel 0 – 120 km/h (15 – 65 knot)	6Y7-83510-40	
	Analog, WHT panel 0 – 120 km/h (15 – 65 knot)	6Y7-83510-50	
5	Analog, BLK panel 0 – 80 km/h (10 – 43 knot)	6Y7-83510-60	
	Analog, WHT panel 0 – 80 km/h (10 – 43 knot)	6Y7-83510-70	

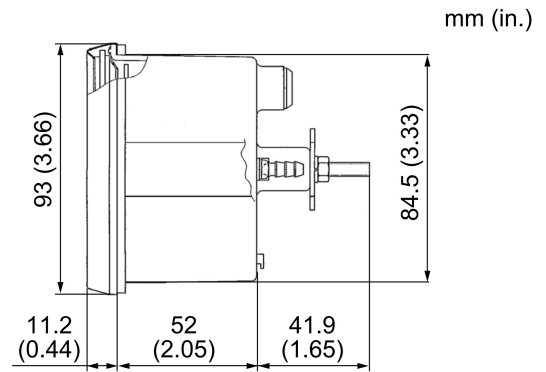
SPEEDOMETER

SPEEDOMETER DIMENSIONS

Digital



Analog

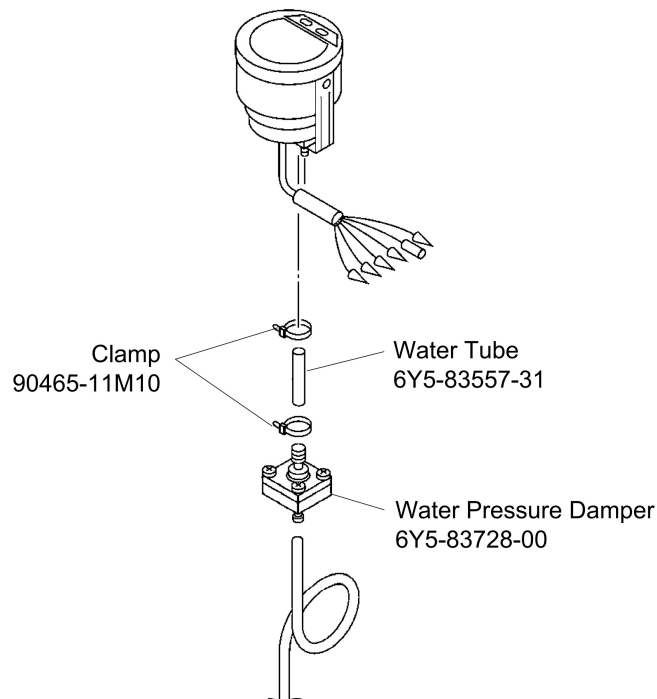


* A 6 m (19.7 ft) water tube (P/N: 688-83557-00) is included with all speedometer units, (except digital speedometer unit P/N: 6Y5-83570-S5).

WATER PRESSURE DAMPER (OP)

Installing the water pressure damper between the gauge and water tube is recommended under following condition.

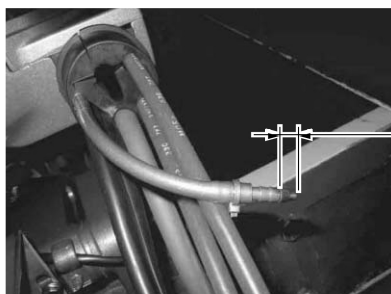
- The pointer of analog gauge is wiggled if water pressure pulsates.
- To reduce a risk if water has leaked at connector end causing the gauge damage.



SPEEDOMETER

SPEEDOMETER TUBE ROUTING

1. Cut off about 3 mm (0.12 in.) from the end of the nipple of the speedometer tube to open it.



Cut off 3 mm
(0.12 in.)

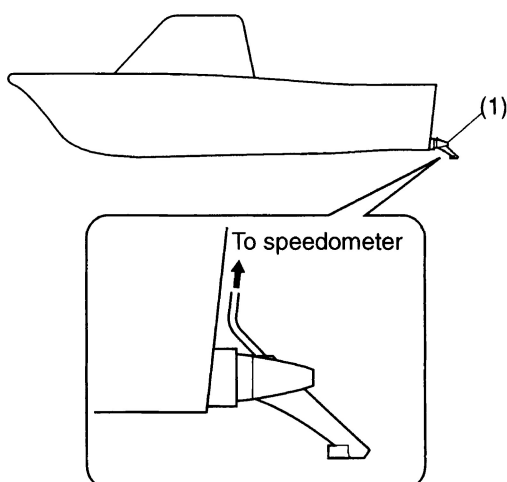
2. Route the speedometer tube carefully to avoid crimping or damage.



3. Connect the tube to the nipple.

* The optional speed sensor (P/N: 688-83556-01) is required if the speedometer tube is not equipped to the clamp bracket area.

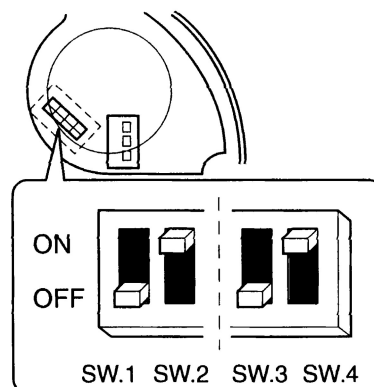
* In high-performance applications where the engine has been mounted in an elevated position, it may be necessary to use the optional speed sensor to obtain a correct reading.



(1) Optional speed sensor

DIGITAL SPEEDOMETER SET UP

1. Remove the rubber grommet from the back the meter.
2. Set the toggle dipswitches on the chart as below.
3. Reinstall the grommet.



SW.1	ON	OFF	OFF
SW.2	ON	ON	OFF
Display	km/h	mph	knot/h

SW.3	ON	OFF	OFF
SW.4	ON	ON	OFF
Fuel sensor	Yamaha original 5 – 105 Ω	ABYC (US) 30 – 240 Ω	Europe 180 – 0 Ω

* The switch position in the illustration shows the initial setting, which is the mph display and ABYC fuel sensor.