



FIRST-TIME OPERATION FOR 2 STROKE MODELS

TIP: YAMALUBE marine oil is the best choice for your Yamaha Outboard Engine.

BREAKING IN ENGINE

Your new engine requires a period of break-in to allow mating surfaces of moving parts to wear in evenly. Correct break-in will help ensure proper performance and longer engine life.

NOTICE: Failure to follow the break-in procedure could result in reduced engine life or even severe engine damage.

GASOLINE AND ENGINE OIL MIXING CHART (25:1)

	25: 1			
	1L	12L	14L	24L
	0.04L	0.48L	0.56L	0.96L

- : Gasoline
- : Engine oil

NOTICE: Be sure to mix gasoline and oil completely, otherwise the engine may be damaged.



Procedure for Pre-mixed models:

Run the engine under load (in gear with propeller installed) as allows for 10 hours as follows:

1. First 10 minutes:

⇒ Run the engine at the lowest possible speed. A fast idle in neutral is best.

2. Next 50 minutes:

⇒ Do not exceed half throttle (approximately 3000 r/min). Vary engine speed occasionally. If you have an easy planing boat, accelerate at full throttle onto plane, the immediately reduce the throttle to 3000 r/min or less.

3. Next 02 hours:

⇒ Accelerate at full throttle onto plane, then reduce engine speed to three quarter throttle (approximately 4000 r/min). Vary engine speed occasionally. Run at full throttle for one minute, the allow about 10 minutes of operation at three quarter throttle or less to let the engine cool.

4. Remain 07 hours:

⇒ Run the engine at any speed. However, avoid operating at full throttle for more than 5 minutes at a time.

5. After the first 10 hours:

⇒ Operate the engine normally. Use the standard premix ratio of gasoline and oil.

For detail on mixing fuel and oil, see the chart below:

GASOLINE AND ENGINE OIL MIXING AFTER BREAK-IN CHART (50:1)

	50 : 1			
	1L	12L	14L	24L
	0.02L	0.24L	0.28L	0.48L

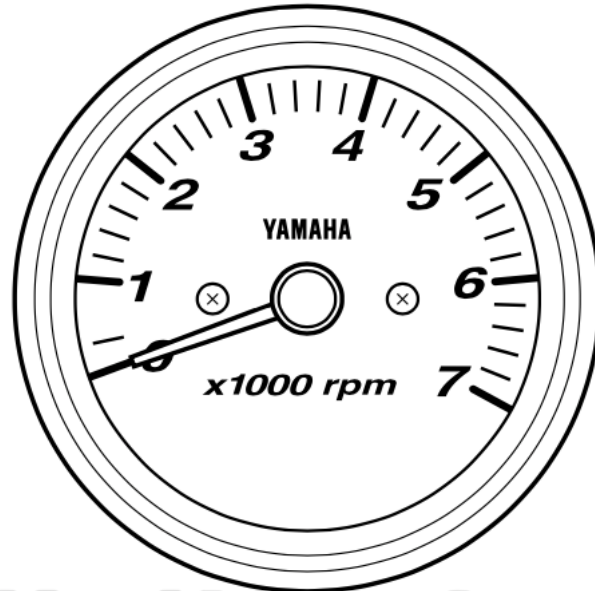
1. : Gasoline 2. : Engine oil



INSTRUMENTS AND INDICATORS

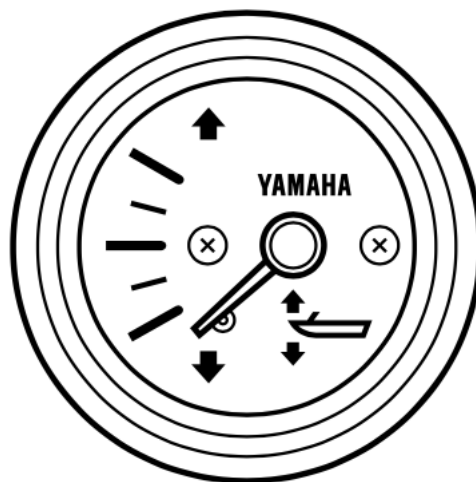
Analog tachometer

The gauge shows the engine speed



Analog trim meter

This gauge shows the trim angle for your outboard motor.



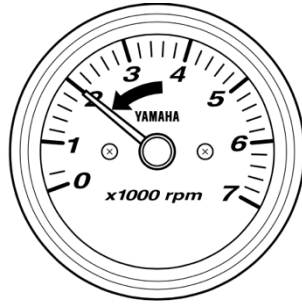


ALERT SYSTEM

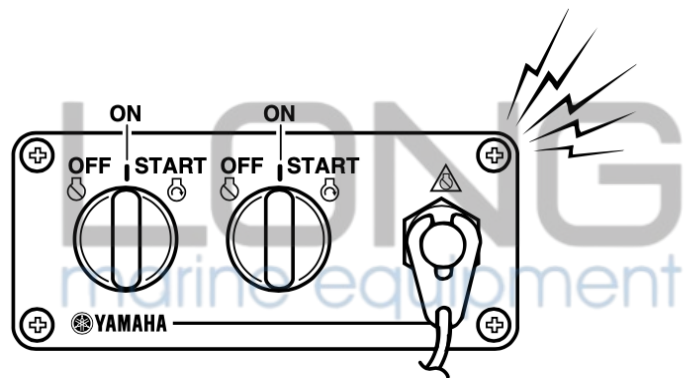
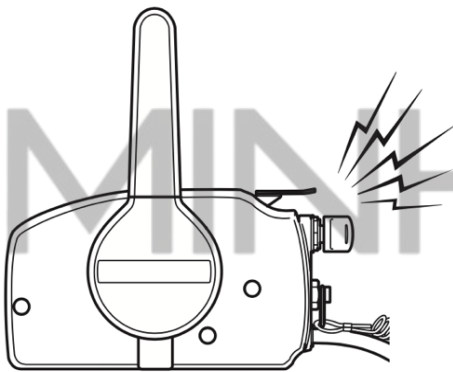
1. Overheat alert (twin engines)

This engine has an overheat-alert device. If the engine temperature rises too high, the alert device will activate.

- The engine speed will automatically decrease to about 2000-3500 r/min.

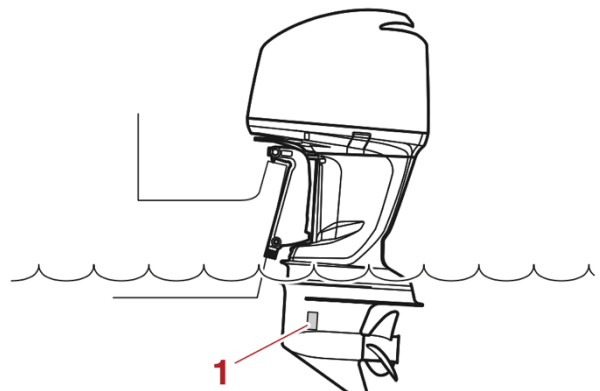


- The buzzer will sound.



If the alert system has activated, stop the engine and check the cooling water inlets:

- Check trim angle to be sure that the cooling water inlet (1) is submerged.
- Check the cooling water inlet (1) for clogging.



Dual engine drive users:

If the overheat alert system of one engine activates, the engine will slow down.