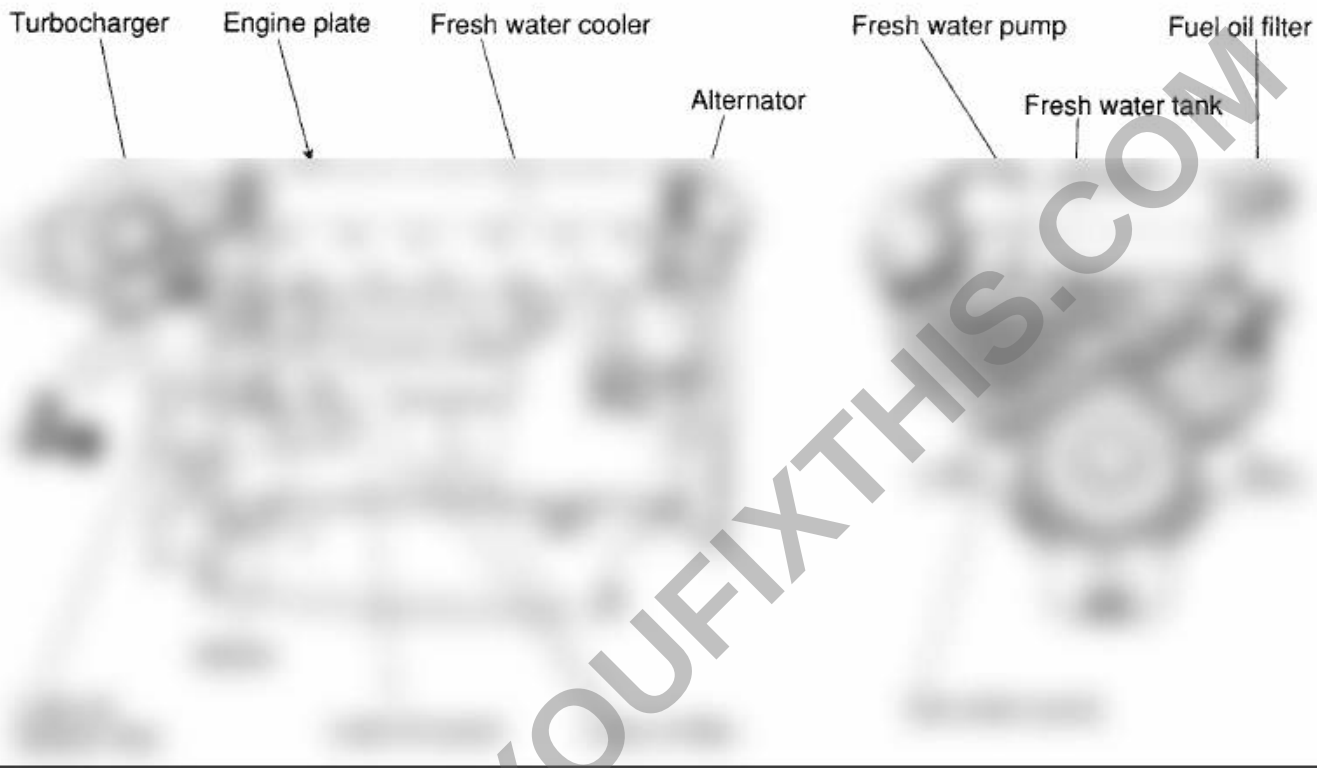
2.3 Location of Component



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(2) Washing the Cooling Water System and Checking and Maintaining Parts

This maintenance requires specialized knowledge. Consult your Yanmar dealer or distributor.
Over time rust and scale builds up in the seawater and fresh water systems reducing their cooling performance. Additionally, when the inside of the engine oil cooler and the clutch oil cooler become dirty, lube oil cooling worsens causing the oil to deteriorate more quickly.
Wash the following related parts when the cooling water is being replaced.
Cooling water system related parts: seawater pump, engine oil cooler, clutch oil cooler, fresh water pump, fresh water cooler, thermostat, etc.

(3) Checking and Replacing the Fuel Pipe and the Cooling Water Pipe

This maintenance requires specialized knowledge. Consult your Yanmar dealer or distributor.
Check the hoses of the fuel and cooling water pipings and replace if damaged.

(4) Replacing the Mixing Elbow

This maintenance requires specialized knowledge. Consult your Yanmar dealer or distributor.
The mixing elbows which are constantly in contact with exhaust gas and seawater deteriorate with use and must be replaced. If operation is continued without replacing faulty elbows, water will leak into the boat, and gas leakage may result in fires.

(5) Lapping of Intake/Exhaust Valves

This maintenance requires specialized knowledge. Consult your Yanmar dealer or distributor.
Adjustment is necessary to maintain proper contact of the valves and seats.

(6) Checking and Adjusting the Fuel Injection Timing

This maintenance requires specialized knowledge. Consult your Yanmar dealer or distributor.
Fuel injection timing must be adjusted to ensure optimal engine performance.

(7) Check and Replace Sensors for Instrument Panel

Check sensors for instrument panel. if there is any abnormality, replace sensor.

5.3 Replacement Parts

[NOTICE]

Be sure to use genuine Yanmar parts when making replacements. Using other parts lowers engine performance and shortens the life of the engine.

Name of Parts	Code Number	Remarks
Fuel filter (cartridge)	127695-55630	—
Lube oil filter (cartridge)	127695-35150	—
Lube oil bypass filter (cartridge)	128633-35450	—
Oil/water separator element	127695-55760	Option
Rubber Impelleer for seawater pump	128620-42200	—
V-belt (alternator)	25132-004500	—

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6. TROUBLE AND TROUBLESHOOTING

6.1 Simple problems and the appropriate countermeasures

If you should encounter some difficulty during operation, refer to the following table for countermeasures.

Trouble	Probable Cause	Measure	Reference
	[NOTICE]		

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5.1 List of Periodic Inspections

Daily and periodic inspection are important to keep the engine in its best condition. The following is a summary of inspection and servicing items by inspection interval. Periodic inspection intervals vary depending on the uses, loads, fuels and lube oils used and handling conditions, and are hard to establish definitively. The following should be treated only as a general standard. Schedule your own periodic inspection plan according to the operational conditions of your engine and inspect every item. Neglecting periodic inspection leads to engine troubles and shortens the life of the engine.

○: Check ◎: Replace ●: Consult local dealer

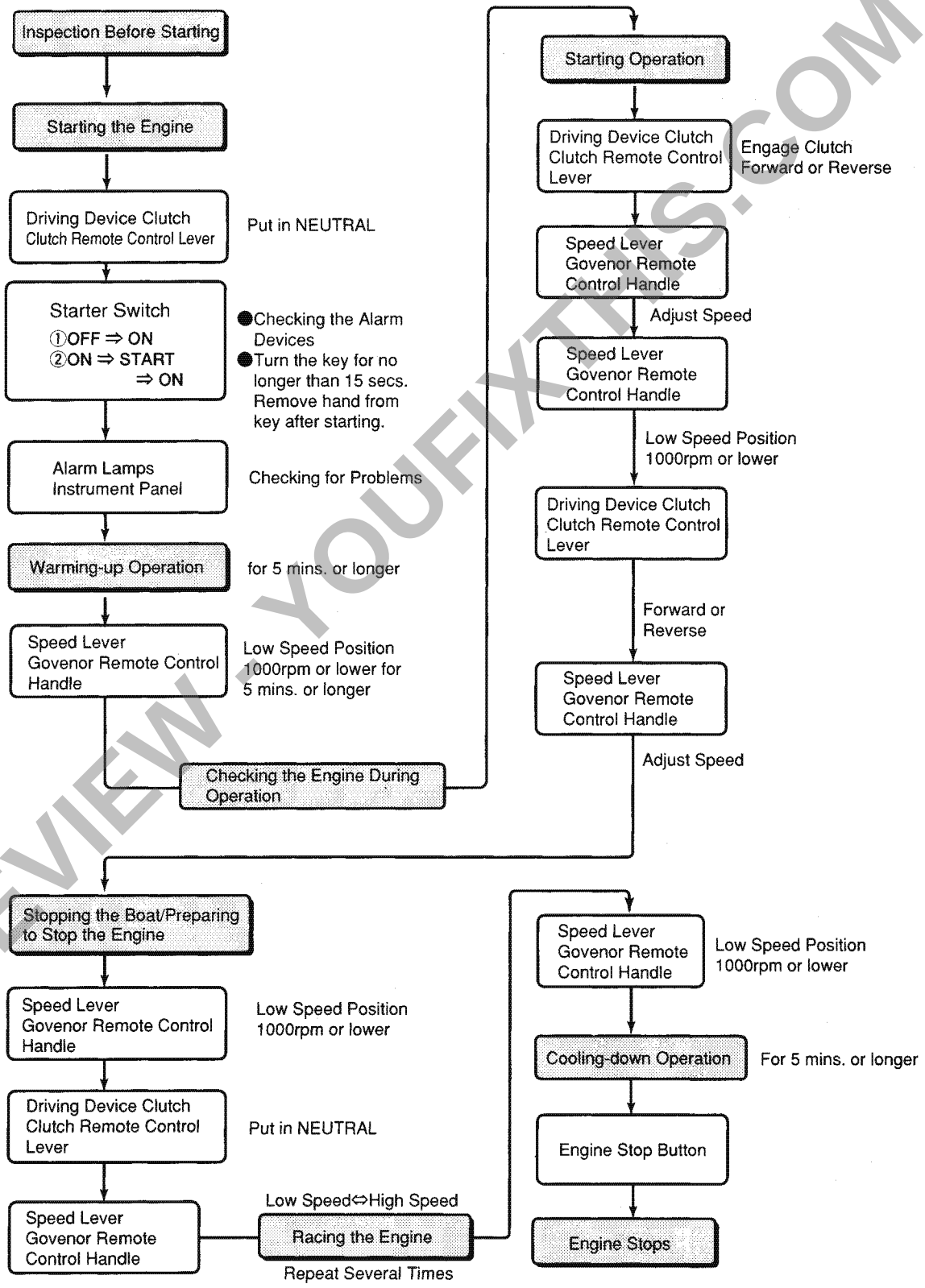
Item	Content	Daily	Interval term			
			Every 50hrs	Every 250hrs (1 yr.)	Every 500hrs (2 yrs.)	Every 1000hrs (4 yrs.)
Fuel oil	Check & supply of oil to the tank	○				
	Drain the fuel tank		○			
	Drain the fuel filter		○			
	Replace the fuel filter element			◎		
Engine Lube oil	Check the quantity of lube oil	○				
	Replace the lube oil		1st time ◎	2nd time & after ◎		
	Replace the lube oil filter element		1st time ◎	2nd time & after ◎		
	Clean the engine oil cooler					●
Fresh cooling water system	Check & supply of cooling water tank	○				
	Replace the fresh cooling water			◎		
	Clean & check the cooling water passage					●
Seawater cooling water system	Check the seawater outlet and discharge	○				
	Check & replace the impeller of seawater pump					●
	Clean & check the seawater passage					●
	Check & replace anti-corrosive ZINC					
Pipes	Check hose clips		1st time ○	○		
	Check and replace rubber hoses				○	◎
	Replace mixing elbow					●
Electrical equipment	Check the alarm lamps & devices	○				
	Check & supply electrolyte in battery		○			
	Check and replace sensor for instrument panel					◎
	Check wire harness				○	
Belt	Adjusting the V-belt tension			○		◎
Intake and exhaust system	Wash turbocharger blower			○		
	Disassemble, check and adjust turbocharger					
	Adjust the intake and exhaust valve clearance				●	
	Lapping the intake and exhaust valve					●
Fuel injection	Check & adjust the fuel injection pressure & atomizing condition				●	
	Check & adjust the fuel injection timing					●

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4.7 Operation Procedure

The following diagram shows the procedures for operation explained up to this point.
Parts of the operation may differ depending on the remote control system being used.
Accompanying operation manuals should be read carefully and understood.



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3.2 Supplying with Fuel

⚠ DANGER



Fires from Oil Ignition

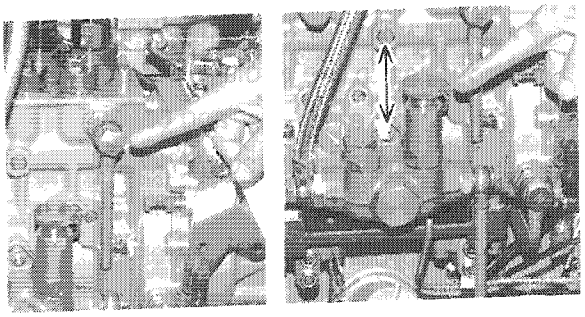
- **Be sure to use the correct type of fuel when refueling. Mistakenly filling with gasoline or the like will result in ignition.**
- **Be sure to stop the engine before refueling. If you spill fuel, wipe such spillage carefully.**
- **Never place oils or other flammable material close to the engine as this could result in ignition.**

3.2.1 Filling the Fuel Tank

Fill the tank with clean fuel which has not been contaminated with water or dust.
Fill the tank to approximately 90% of its capacity, and take care not to let the fuel spill over during operation.

3.2.2 Bleeding the Fuel System

Bleed the fuel system according to the following procedure. When there is air in the fuel system, the fuel injection pump will not be able to function.



The fuel system includes the fuel tank, water separator, fuel oil filter, feed pump, fuel injection pump, high pressure pipe and fuel injection valve.
If air enters this system, fuel oil cannot be injected. Completely bleed air from the fuel system by using the following procedure:

(1) Set the regulator lever to the NORMAL position.
(2) Open all the shut-off valves of the fuel system.
(3) Loosen the air vent bolt of the fuel injection pump.

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1. FOR SAFE OPERATION

Following the precautions described in this manual will enable you to use this engine with complete satisfaction. Failure to observe any of the rules and precautions, however, may result in injury, burns, fires, and engine damage. Read this manual carefully and be sure you fully understand it before beginning operation.

1.1 Warning Symbols

These are the warning signs which are used in this manual and on the products.
Pay special attention to them.

⚠ DANGER

DANGER- Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠ WARNING

WARNING- Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

⚠ CAUTION

CAUTION- Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

- The descriptions captioned by 【NOTICE】 are for the particularly important cautions for handling. If you ignore them, the performance of your machine may deteriorate leading to trouble.

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