2. Engine specifications

2. Engine specifications

Type	Vertical water-cooled 4-cycle diesel engine				
Model	6LY-UTE	6LYM-UTE	6LYM-UTEHD	6LY-STE	6LYM-STE
No. of cylinders	6				

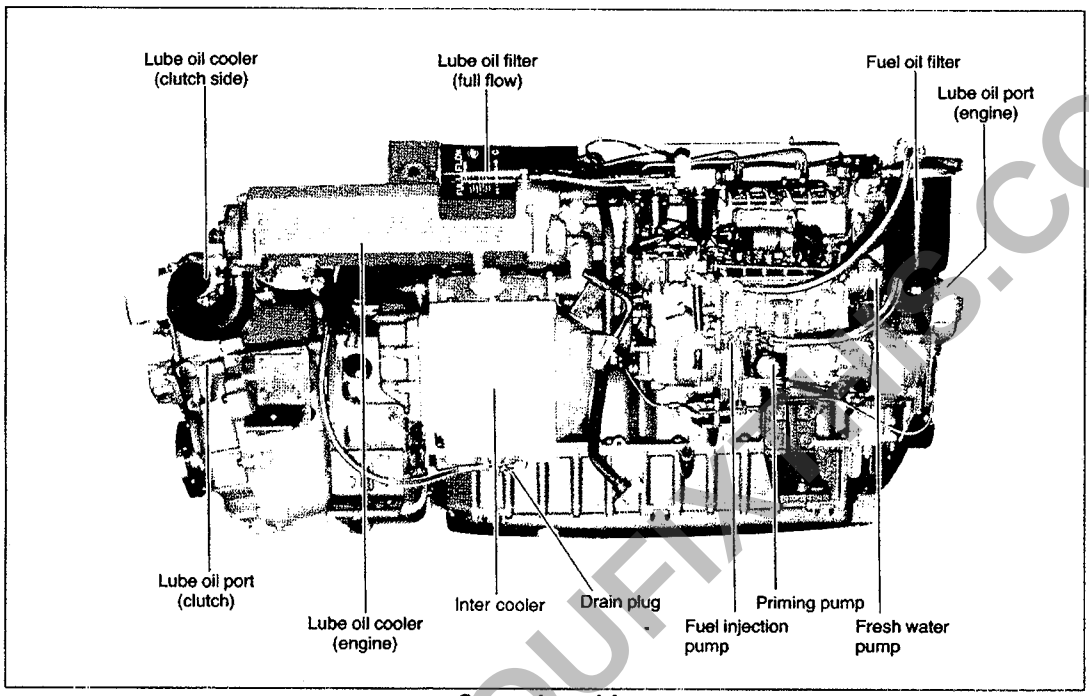
Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

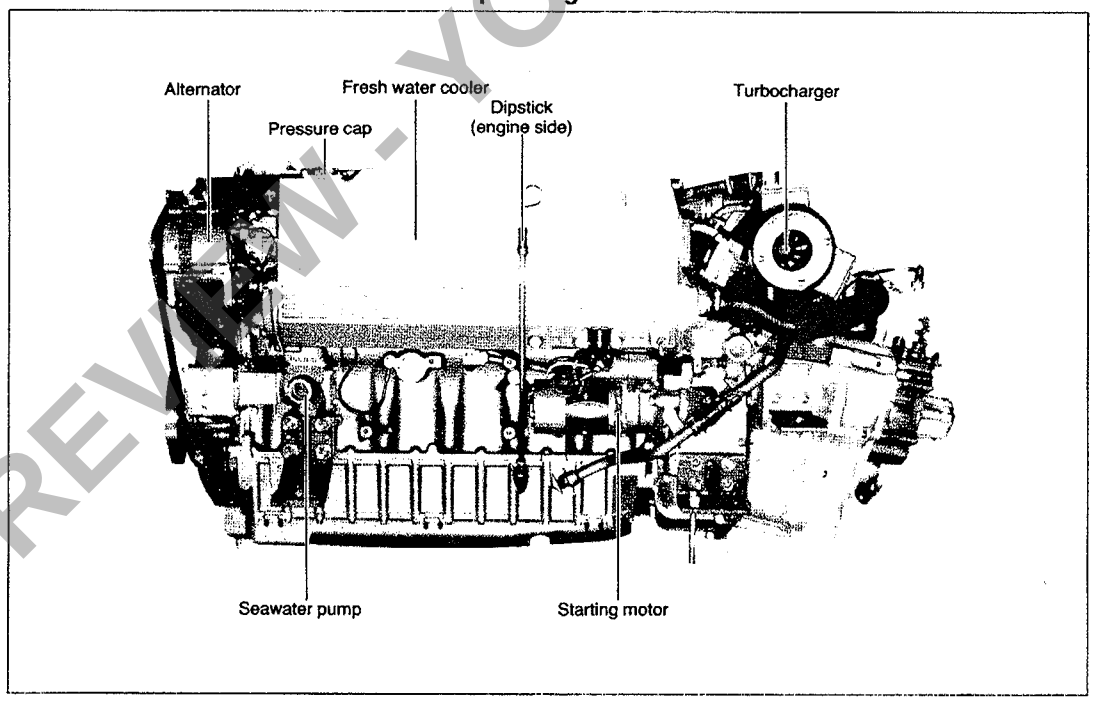
Download full manual at youfixthis.com

1. Name of parts

1. Name of parts (Model : 6LY-UTE)



Operating side



Non-operating side

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

8. Periodical checks and service

To keep the engine in best condition, periodical checks are essential. The parts that require periodical maintenance are located on top of the engine.

Maintenance

1. Sub tank: Check and replenish cooling water
2. Fuel oil filter: Replace filter every 250 hours.
3. Lube oil filter: Replace filter every 250 service hours. (1st replacement: At 50 service hours)
4. Turbocharger compressor: Clean compressor every 250 service hours.
5. Lube oil dipstick and oil drain pipe:
   Before start-up check oil level using dipstick.
   Draining method: Remove dipstick, and drain waste oil by sucking it up the oil drain pipe. (Dipstick tube)
6. Lube oil port
   Applicable lube oil: Class CD, 15W-40 for engine, and class CD, #30 for clutch.
   Lube oil replacement: Every 250 service hours.
   Replacement amount: 18 liters

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

8. Periodical checks and service

Maintenance List

●: Consult nearest dealer
○: Check ◉: Replace

Item	Description	Schedule						
			Every 50	Every 250	Every 500	Every 1000	Every 2500	

PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

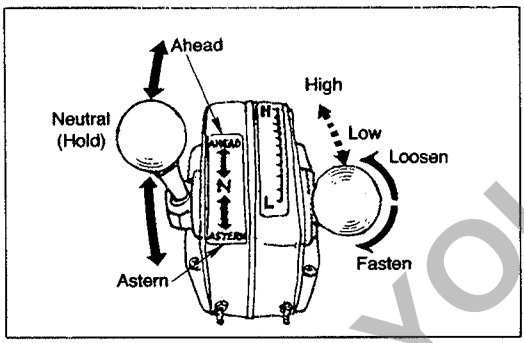
6. Operation

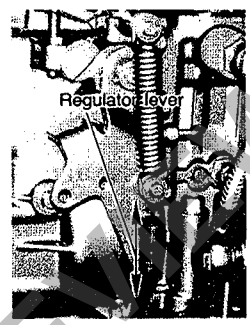
Before starting the engine, check around the engine to see that there is nothing that may prevent safe operation.

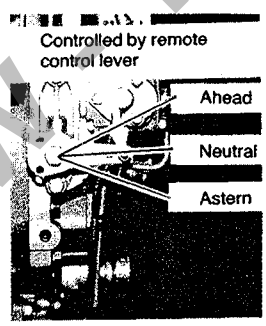
6-1 Starting

Follow these steps to start the engine:

1) Set the remote control clutch lever to neutral position.
2) Set the remote control throttle lever to the normal speed position (midpoint between high speed position and slow speed position).







Turn the key of the starter switch to the START position to start the engine. As soon as the engine is started, release the key; the key automatically returns to the ON position.

IMPORTANT:
Do not turn off the battery switch even after starting the engine.
With the start switch at he ON position, the gauges and alarms on the Yanmar instrument panel are activated.

IMPORTANT:

(1) To protect the starter, do not continue running the starting motor for more than 15 seconds. If you fail to start the engine, wait about 15 seconds and then try again.

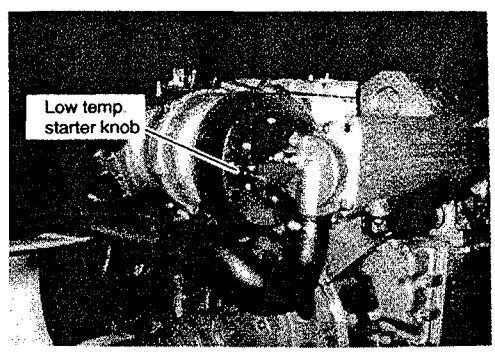
(2) When restarting the engine, make sure that the engine has stopped and turn the starter switch key to the START position. If the starter switch is turned while the engine is still running, the starter motor and/or flywheel gears may be damaged.

(3) To facilitate the start-up of the engine in cold weather:

- Turn off the boost compensator.
  Pull the low temp. starter knob all the way out. When the engine has started, push low temperature knob all the way in. The boost compensator once turned off will automatically be activated after starting the engine.

⚠ CAUTION:
Use the low temp. starter knob only when start-up of the engine is not easy. During normal operation, push and keep the knob as it is.

WARNING:
Disconnect the terminals from the battery before repairing or inspecting electrical parts.



PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. Precautions

To prolong the service life of your YANMAR engine, be sure to observe the following precautions.

No.	Precautions	Troubles Due Failure to Observe
1	Be sure to break-in the new YANMAR engine.	The components of a new engine must wear in together, imposing undue load on the engine during this wear, may shorten the engine service life. **⚠ CAUTION :** Do not impose any undue load on the engine for at least 50 hours after installation and initial running of the engine. Be sure to operate the engine at 2500 rpm or lower.
2	(1) It is recommended that a diesel fuel oil (#2) and equivalent be used. (2) Be sure to properly drain the fuel filter, oil-water separator, and fuel tank. For draining procedures, see Sec. 8-1. (3) Replace the fuel filter element every 250 service hours. See Sec. 8-1 for details of replacement.	(1) If you use the engine in cold weather, use No 3 special light oil. Use of any other fuel oil may result in frozen oil and cause stoppage of oil flow. (2) Be sure to use of cetane number 45 or more. Use of a cetane number less than 45 may deteriorate the combustion performance. Fuel oil mixed with water or moisture may cause failures to occur in the fuel injection pump and injection valve, and may significantly shorten the service life of the engine. If the filter element has been used for a long period of time without servicing, it will become clogged so that the flow rate of fuel oil will drop, causing engine trouble.
3	(1) Use lubricant complying to SAE J183 15W40 (Class CD) for engine. If oil of this grade is not available, contact nearest our dealer. (2) Use lubricant complying SAE #30 (Class CD) for clutch. If oil of this grade is not available, contact nearest our dealer.	Using an oil other than the one recommended may shorten the service life of the engine, due to, for example, piston ring sticking, seizure of pistons and liners, premature wear of moving parts, or other trouble. This oil should be used in the Yanmar KMH6A marine gear. If some other marine gear is supplied consult manufacture's operation manual for correct oil type.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CONTENTS

1. Name of parts 1
2. Engine specifications 2
3. Precautions 3
4. Fuel and lube oil 8
5. Initial operation of new engine 9
6. Operation 15
7. Handling the marin gear 19
8. Periodical checks and service 21
9. Easy troubleshooting guide 37
10. System diagrams 38

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TIPS ON SATETY

TIPS ON SAFETY

WARNING:

1. PREVENTING FIRES

Never add fuel to the fuel tank while the engine is running. Wipe away all fuel spills with a clean cloth. Keep gasoline, Kerosene, matched, other explosives and inflammables away from the engine, since the temperature around the exhaust manifold and exhaust mixing elbow are very high during operation.

2. PREVENTING EXHAUST GAS INHALATION

- Exhaust gas contains poisonous carbon monoxide.
- Never use the engine in poorly ventilated conditions, provide proper ventilation so that people and animals will not be affected.

3. PREVENTING BURNS

- Never touch the exhaust manifold, exhaust mixing elbow, turbocharger or engine body while the engine is running or hot.

4. OTHER SAFETY TIPS

- Know how to stop the engine quickly and understand operation of all the controls. Never permit anyone to operate the engine without proper instructions.
- Do not operate under the influence of alcohol.
- Keep children and pets away from the engine when it is in operation.
- Keep away from rotating parts while the engine is running.
- When the engine is coupled with a machine, be sure to provide suitable covers for the belt, coupling and other dangerous parts.
- Work according to the rules and regulations of work area. When working with others, be sure to maintain good communication with everyone else.
- Use correct tools and equipment.

5. WHEN CHARGING THE BATTERY

- Battery electrolyte contains sulphuric acid. Protect your eyes, skin and clothing. In case of contact, flush thoroughly with water and get prompt medical attention, especially if your eyes are affected.
- Batteries generate hydrogen gas which can be highly explosive. Do not smoke or allow flames or sparks near a battery, especially during charging.
- Charge the battery in a fully ventilated place.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 8 of 39 pages

The full manual includes:

- All 39 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Yanmar 6LY(M)-UTE, 6LY(M)-UTEHD, 6LY(M)-STE, 6LY(M)-UTE STE Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual